KEY OF SYMBOLS AND ABBREVIATIONS

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

GATE VALVE
GLOBE VALVE
BALL VALVE
CHECK VALVE
RELIEF OR SAFETY VALVE
3-WAY AUTOMATIC CONTROL VALVE
2-WAY AUTOMATIC CONTROL VALVE
PRESSURE REDUCING VALVE
STRAINER WITH BLOW-OFF VALVE
BUTTERFLY VALVE HAND OPERATED
BUTTERFLY VALVE MOTOR OPERATED
TWO BUTTERFLY VALVES W/COMMON MOTOR OPERATOR
PLUG VALVE
SOLENOID VALVE
FLOW METER
TRAP, STEAM
PUMP
PUMP SUCTION DIFFUSER
TRAP, BUCKET
DRIP RIG OR TRAP RIG
FLOW SWITCH
AIR VENT AUTOMATIC
AIR VENT MANUAL
AIR SEPARATOR
PRESSURE GAGE W/ GAGE COCK
THERMOMETER
TEMPERATURE TRANSMITTER
BALL JOINT

FLEXIBLE CONNECTOR
FLANGED CONNECTION
UNION FITTING
PIPE GUIDE
PIPE ANCHOR
VALVED CAPPED OUTLET
EXPANSION JOINT
REDUCER
PIPE UP
PIPE DN
PIPE BOTTOM CONNECTION
PIPE TOP CONNECTION
PIPE STUB UP
FLOW DIRECTION
PIPE PITCH UP OR DOWN
EXPANSION LOOP

CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
SCWS	SECONDARY CONDENSER WATER SUPPLY
SCWR	SECONDARY CONDENSER WATER RETURN
CW	CITY WATER
D	DRAIN LINE
DW	DOMESTIC WATER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
PD	PUMP DISCHARGE
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERANT SUCTION LINE
V	VENT OR RELIEF LINE

NEW WORK
AIR RISER
WATER SUPPLY RISER
WATER RETURN RISER
CONDENSATE DRAIN RISER
SQUARE INCHES
SQUARE FEET
AREA SMOKE DETECTOR
EMERGENCY SWITCH
HUMIDISTAT
THERMOSTAT
SWITCH

DUCT MOUNTED SMOKE DETECTOR
PRESSURE SENSOR
TEMPERATURE SENSOR
FIRE STAT
UNDER-CUT DOOR
LOUVERED DOOR
SEE DETAIL NO. 1 ON DRAWING M-101
SEE SECTION NO. 1 ON DRAWING M-101

UNIT HEATER
AXIAL FLOW FAN
PROPELLER FAN
CENTRIFUGAL FAN
ROOF VENTILATOR INTAKE
ROOF VENTILATOR EXHAUST
CEILING DIFFUSER
RETURN GRILLE
TOP REGISTER
RETURN/EXHAUST AIR
SUPPLY AIR
(200) AIR QUANTITY (200 CFM)

DUCT SIZE IN INCHES (FIRST FIGURE IS SIDE SHOWN)
DUCT WITH ACOUSTICAL LINING (SIZE INDICATES CLEAR AREA INSIDE)
DUCT IN FIRE RATED ENCLOSURE
FLEXIBLE CONNECTION
FLEXIBLE DUCT
SQUARE VANED ELBOW
RADIUS ELBOW
SUPPLY AIR DUCT
RETURN/EXHAUST AIR DUCT
VOLUME DAMPER
FUSIBLE LINK FIRE DAMPER W/ACCESS DOOR
FIRE SMOKE DAMPER W/FUSIBLE LINK & ACCESS DOOR
AUTOMATIC LOUVERED DAMPER
TRANSFER OPENING ABOVE HUNG CEILING
TRANSFER DUCT ABOVE HUNG CEILING WITH ACOUSTICAL LINING (SEE DETAILS 115 & 115A)

AC	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ALD	AUTOMATIC LOUVERED DAMPER
ALWS	ALUMINUM LOUVER AND ALUMINUM WIRE MESH SCREEN
AP	ACCESS PANEL
BF	BLIND FLANGE
BG	BOTTOM GRILLE
BHP	BREAK HORSEPOWER
BI	BLACK IRON
BO	BLANK OFF
BR	BOTTOM REGISTER
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CH	CABINET UNIT HEATER
CO	CAPPED OUTLET
COD	CLEAN OUT DOOR
CR	CEILING REGISTER
CV	CONSTANT VOLUME BOX
D	DRAIN LINE
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EE	ELEVATOR EXHAUST
EF	EXHAUST FAN
EWT	ENTERING WATER TEMPERATURE
F	FILTER
FA	FACE AREA
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FLD	FUSIBLE LINK FIRE DAMPER W/ACCESS DOOR
FLT	FLUSH TANK
F/SM-HS	FIRE/SMOKE DAMPER (RESETTABLE TYPE) W/HEAT SENSOR & ACCESS DOOR
F/SM	FIRE/SMOKE DAMPER W/FUSIBLE LINK AND ACCESS DOOR
FTR	FIN-TUBE RADIATION
GC	GENERAL CONTRACTOR
GE	GENERAL EXHAUST
GI	GALVANIZED IRON
GP	GLYCOL PUMP
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HP	HORSEPOWER
H&V	HEATING & VENTILATION UNIT
IB	INTERNAL DUCT BOOT

EN-001.00
EN-002.00

KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MER	MECHANICAL EQUIPMENT ROOM
N.C.	NORMALY CLOSED
NFA	NET FREE AREA
NIC	NOT IN CONTRACT
N.O.	NORMALY OPEN
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OV	OUTLET VELOCITY
PH	PRE-HEAT COIL
PIM	PRESSURE INDEPENDENT MODULE
PO	PLUGGED OUTLET
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RHC	RE-HEAT COIL
SB	SECURITY BARS
SD	SMOKE DETECTOR
SE	SMOKE EXHAUST
SG	SECURITY GRILLE
SM	SMOKE DAMPER W/ACCESS DOOR
SPD	SPLITTER DAMPER
S.PR	STAIR PRESSURIZATION
SQ	SQUARE
SQ. FT	SQUARE FEET
SSO	SAFETY SHUT-OFF VALVE
ST	SOUND TRAP
TF	TRANSFER FAN
TC	TOP CONNECTION
TG	TOP GRILLE
TSH	TOE SPACE HEATER
TR	TOP REGISTER
TR GR	TRANSFER GRILLE
UL	UNDERWRITER'S LABORATORY
UH	UNIT HEATER
U.O.N	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WCU	WATER CHILLING UNIT
WMS	WIRE MESH SCREEN
WU	WINDOW UNIT

2014 - NYC BUILDING CODE: MECHANICAL NOTES

BUILDING DEPARTMENT NOTES:

ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE NEW YORK CITY CONSTRUCTION CODE, EFFECTIVE DECEMBER 31, 2014, AND ALL SUBSEQUENT AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS. INSPECTIONS AND SIGN-OFF OF COMPLETED WORK SHALL BE PERFORMED 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. SMOKE CONTROL SYSTEMS – MC 513.3
   B. MECHANICAL SYSTEMS – BC 1704.16
   C. HEATING SYSTEMS – BC 1704.25
   D. CHIMNEYS – BC 1704.26
   E. MECHANICAL AND ELECTRICAL COMPONENTS – BC 1707.7
   F. ENERGY CODE COMPLIANCE – BC 110.3.5 AND 1 RCNY 5000-01
2. THE FOLLOWING PERIODIC SPECIAL INSPECTIONS ARE REQUIRED BY THE NYC BUILDING CODE FOR HVAC SYSTEMS:
   A. FIRE-RESISTANT PENETRATIONS, INCLUDING FIRE DAMPERS – BC 1704.27
   B. ENERGY CODE COMPLIANCE– BC 110.3.5 AND 1 RCNY 5000-01
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. VENTILATION SYSTEM BALANCING MC 403.8
   B. CHIMNEYS– MC 810
   C. BOILERS AND PRESSURE VESSELS–MC 1011
   D. REFRIGERATION SYSTEMS– MC 1108
   E. HYDRONIC PIPING SYSTEMS–MC 1208
4. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFFESSIONAL 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 928
   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 1204
   J. GAS FIRED EQUIPMENT – FUEL GAS CODE
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 928
16. THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE REQUIREMENTS, AND IMPLEMENT ALL SUCH REQUIREMENTS, OF BUILDING CODE CHAPTER 33 WITH RESPECT TO SAFEGUARDS DURING CONSTRUCTION OR DEMOLITION.

BUILDING CODE NOTES:

1. THE MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2014 NEW YORK CITY MECHANICAL CODE AND THE NEW YORK CITY FUEL GAS CODE PER BC2801.1
2. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE 2014 NYC MECHANICAL CODE PER SECTION MC 107 INSPECTIONS AND TESTING, AND CHAPTER 17 OF THE NYC BUILDING CODE.

GENERAL NOTES:

1. CONTRACTOR TO RUN DUCTWORK AND PRESSURE PIPING UP AND DOWN TO COORDINATE WITH OTHER TRADES AND ARCHITECT'S CEILING REQUIREMENTS. ALL GRAVITY PIPING (DRAIN PIPING) TO PITCH DOWN IN DIRECTION OF FLOW.
2. ALL FLOOR MOUNTED EQUIPMENT TO BE MOUNTED ON MINIMUM 4" HOUSEKEEPING PADS TO BE PROVIDED BY GC.
3. PROVIDE FLD'S AT ALL DUCTS WHICH PENETRATE 2-HOUR RATED WALLS OR PENETRATE SLABS ABOVE, WHETHER SHOWN HERE OR NOT, EXCEPT: PROVIDE F/SM (HS) AT ALL DUCTS WHICH PENETRATE 2-HOUR WALLS OR SLABS ABOVE AND FORM PART OF THE SMOKE CONTROL SYSTEM. ALSO PROVIDE SM'S AS REQUIRED FOR FUNCTIONING OF SMOKE CONTROL SYSTEM. ALL DAMPERS SHALL BE CONTROLLED AND MONITORED FROM THE BMS SYSTEM IN NORMAL OPERATION, WITH AUTOMATIC OVERRIDE FROM THE FIRE ALARM SYSTEM WHEN IN ALARM MODE. ALL DAMPERS SHALL GIVE INDICATION BOTH AT THE BMS AND AT THE FAS.
4. FOR EXACT LOCATIONS OF ALL VISIBLE ELEMENTS, INCLUDING GRILLES, DIFFUSERS, THERMOSTATS, ETC, REFER TO ARCHITECTURAL DOCUMENTS.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MECHANICAL DRAWINGS LIST

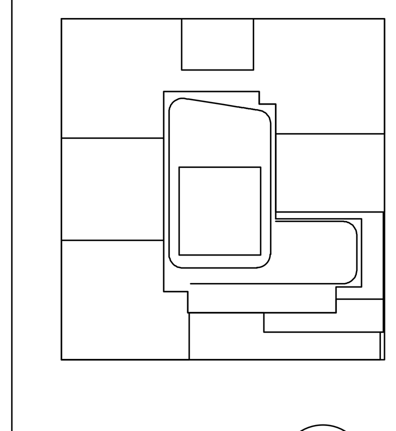
	DRAWING No.	DRAWING TITLE	SCALE	D.O.B. FILING 10/12/2016	100% DD SET 11/11/2016	PROGRESS PRINT 02/02/2017	PROGRESS PRINT 02/02/2017	85% CD 06/02/2017	90% CD 09/15/2017
1	EN-001.00	ENERGY CODE COMPLIANCE SHEET – 1	N.T.S.						
2	EN-002.00	ENERGY CODE COMPLIANCE SHEET – 2	N.T.S.						
3	EN-003.00	ENERGY CODE COMPLIANCE SHEET – 3	N.T.S.						
4	M-001.00	MECHANICAL SYMBOL, NOTES & DRAWINGS LIST	N.T.S.	●	●	●	●	●	●
5	M-100.00	MECHANICAL CELLAR FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
6	M-100P.00	MECHANICAL CELLAR FLOOR PIPING PLAN	1/8"=1'-0"	●	●	●	●	●	●
7	M-101.00	MECHANICAL GROUND FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
8	M-102.00	MECHANICAL 2ND FLOOR PLAN PARKING	1/8"=1'-0"	●	●	●	●	●	●
9	M-103A.00	MECHANICAL 3RD FLOOR PLAN MER AMENITY	1/4"=1'-0"	●	●	●	●	●	●
10	M-103B.00	MECHANICAL 3RD FLOOR PLAN MER AMENITY	1/4"=1'-0"	●	●	●	●	●	●
11	M-103C.00	MECHANICAL 3RD FLOOR PLAN MER AMENITY	1/4"=1'-0"	●	●	●	●	●	●
12	M-103D.00	MECHANICAL 3RD FLOOR PLAN MER AMENITY	1/4"=1'-0"	●	●	●	●	●	●
13	M-103P.00	MECHANICAL 3RD FLOOR PLAN PIPING	1/8"=1'-0"					●	●
14	M-104.00	MECHANICAL 4TH FLOOR PLAN MER	1/8"=1'-0"	●	●	●	●	●	●
15	M-104A.00	MECHANICAL 4TH FLOOR PART PLAN MER	1/4"=1'-0"						
16	M-104B.00	MECHANICAL 4TH FLOOR PART PLAN MER	1/4"=1'-0"						
17	M-104C.00	MECHANICAL 4TH FLOOR PART PLAN MER	1/4"=1'-0"						
18	M-104D.00	MECHANICAL 4TH FLOOR PART PLAN MER	1/4"=1'-0"						
19	M-104P.00	MECHANICAL 4TH FLOOR PLAN PIPING	1/8"=1'-0"	●	●	●	●	●	●
20	M-105.00	MECHANICAL 5TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
21	M-106.00	MECHANICAL 6TH FLOOR PLAN UPPER LEVEL	1/8"=1'-0"	●	●	●	●	●	●
22	M-106A.00	MECHANICAL 6TH FLOOR PLAN LOWER LEVEL	1/8"=1'-0"	●	●	●	●	●	●
23	M-107.00	MECHANICAL 7TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
24	M-108.00	MECHANICAL 8TH-19TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
25	M-109.00	MECHANICAL 20TH-34TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
26	M-110.00	MECHANICAL 35TH FLOOR PLAN	1/4"=1'-0"	●	●	●	●	●	●
27	M-111.00	MECHANICAL 36TH FLOOR PLAN MER	1/4"=1'-0"	●	●	●	●	●	●
28	M-111P.00	MECHANICAL 36TH FLOOR PIPING PLAN MER	1/4"=1'-0"		●	●	●	●	●
29	M-112.00	MECHANICAL 37TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
30	M-113.00	MECHANICAL 38TH-50TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
31	M-114.00	MECHANICAL 51ST-61ST FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
32	M-115.00	MECHANICAL 62ND FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
33	M-116.00	MECHANICAL 63RD-65TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
34	M-117.00	MECHANICAL 66TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
35	M-118.00	MECHANICAL 67TH FLOOR PLAN MER	1/4"=1'-0"	●	●	●	●	●	●
36	M-118P.00	MECHANICAL 67TH FLOOR PLAN PIPING	1/4"=1'-0"	●	●	●	●	●	●
37	M-119.00	MECHANICAL MAIN ROOF PLAN	1/4"=1'-0"	●	●	●	●	●	●
38	M-120.00	MECHANICAL ELEVATOR MER PLAN	1/4"=1'-0"	●	●	●	●	●	●
39	M-200.00	MECHANICAL 4TH MER PART PLAN	1/4"=1'-0"				●	●	●
40	M-201.00	MECHANICAL 4TH FLOOR SECTIOIN	AS SHOWN						
41	M-202.00	MECHANICAL 36TH FLOOR SECTION	AS SHOWN						
42	M-300.00	MECHANICAL FLOW WATER RISER DIAGRAM	N.T.S.	●	●	●	●	●	●
43	M-301.00	MECHANICAL WATER RISER DIAGRAM 1	N.T.S.	●	●	●	●	●	●
44	M-302.00	MECHANICAL WATER RISER DIAGRAM 2	N.T.S.	●	●	●	●	●	●
45	M-303.00	MECHANICAL WATER RISER DIAGRAM 3	N.T.S.	●	●	●	●	●	●
46	M-304.00	MECHANICAL TOILET AND DRYER EXHAUST RISER DIAGRAM 1	N.T.S.	●	●	●	●	●	●
47	M-305.00	MECHANICAL TOILET AND DRYER EXHAUST RISER DIAGRAM 2	N.T.S.						
48	M-306.00	MECHANICAL TOILET AND DRYER EXHAUST RISER DIAGRAM 3	N.T.S.	●	●	●	●	●	●
49	M-307.00	MECHANICAL TOILET AND DRYER EXHAUST RISER DIAGRAM 4	N.T.S.	●	●	●	●	●	●
50	M-308.00	MECHANICAL AIR RISER DIAGRAM 1	N.T.S.	●	●	●	●	●	●
51	M-309.00	MECHANICAL AIR RISER DIAGRAM 2	N.T.S.	●	●	●	●	●	●
52	M-310.00	MECHANICAL AIR RISER DIAGRAM 3	N.T.S.	●	●	●	●	●	●
53	M-311.00	MECHANICAL KITCHEN EXHAUST RISER DIAGRAM 1	N.T.S.	●	●	●	●	●	●
54	M-312.00	MECHANICAL KITCHEN EXHAUST RISER DIAGRAM 2	N.T.S.	●	●	●	●	●	●
55	M-313.00	MECHANICAL KITCHEN EXHAUST RISER DIAGRAM 3	N.T.S.	●	●	●	●	●	●
56	M-400.00	MECHANICAL SCHEDULES SHEET-1	N.T.S.	●	●	●	●	●	●
57	M-401.00	MECHANICAL SCHEDULES SHEET-2	N.T.S.	●	●	●	●	●	●
58	M-402.00	MECHANICAL SCHEDULES SHEET-2	N.T.S.				●	●	●
59	M-500.00	MECHANICAL DETAILS SHEET-1	N.T.S.	●	●	●	●	●	●
60	M-501.00	MECHANICAL DETAILS SHEET-2	N.T.S.	●	●	●	●	●	●
61	M-502.00	MECHANICAL DETAILS SHEET-3	N.T.S.	●	●	●	●	●	●
62	M-503.00	MECHANICAL DETAILS SHEET-4	N.T.S.	●	●	●	●	●	●

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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

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

DEPT OF BLDGS 420655954 Job Number
ES553187800 Scan Code



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
SYMBOLS, NOTES AND DRAWING LIST

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-001.00
DWG NO.
OF

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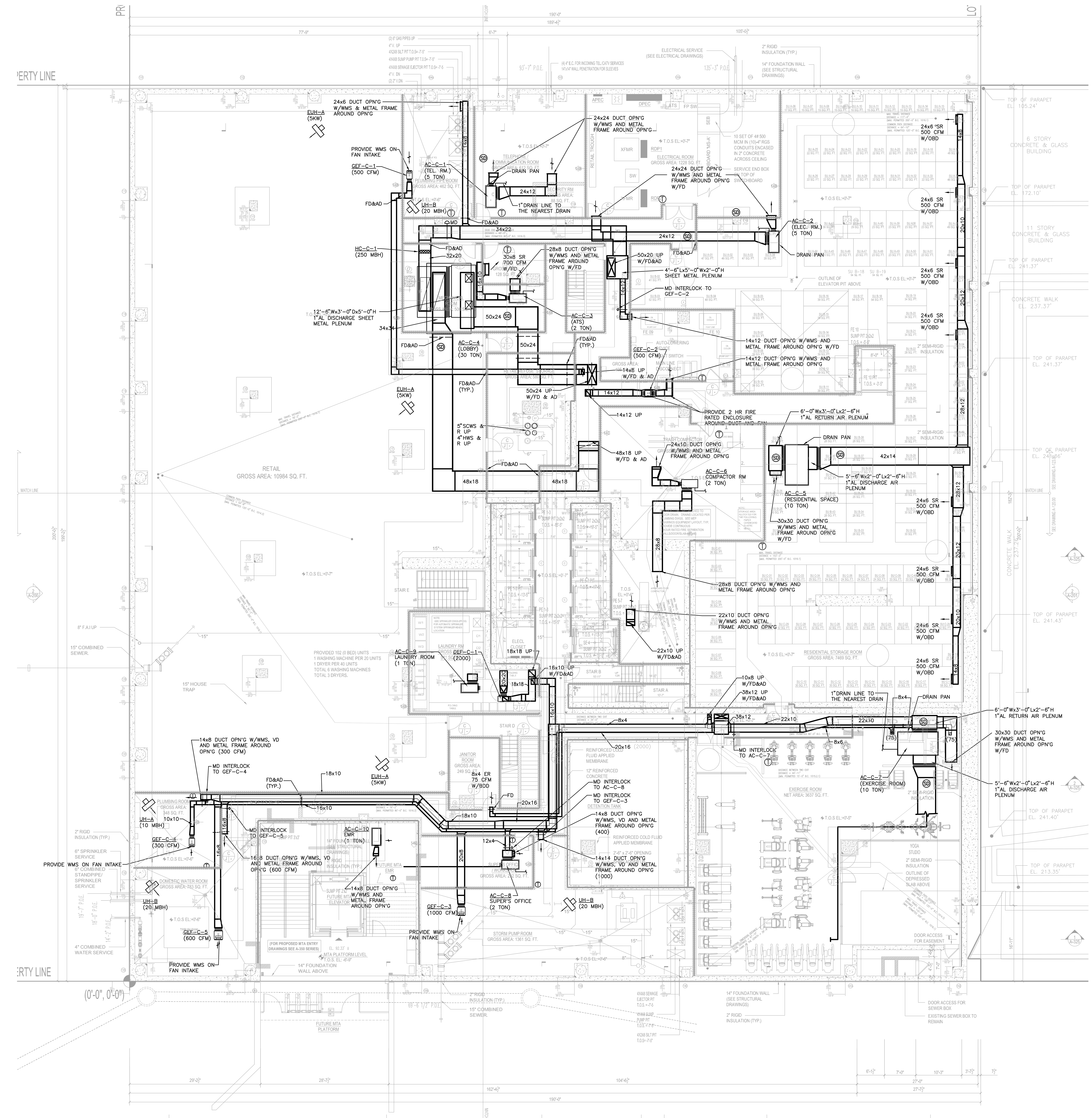
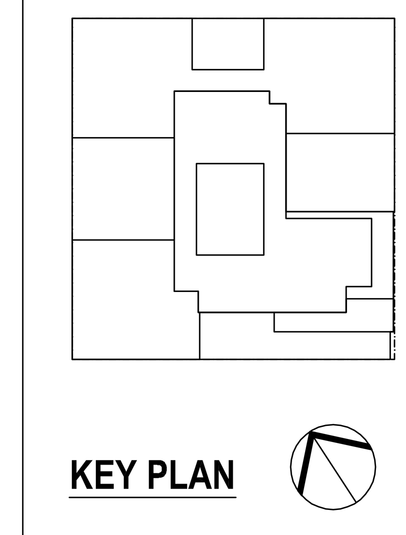
DEPT OF BLDGS 420665954 Job Number
ES680004517 Scan Code



MECHANICAL CELLAR LEVEL FLOOR PLAN
SCALE 1/8"=1'-0"



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	02/03/2017	PROGRESS PRINT
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
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Consultant:
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New York, NY 10121
(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
CELLAR FLOOR PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK
DOUGLAS C. MASS
No. 58375
LICENSED PROFESSIONAL ENGINEER

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
M-100.00
DWG NO.
OF OF 58

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK CITY 2016

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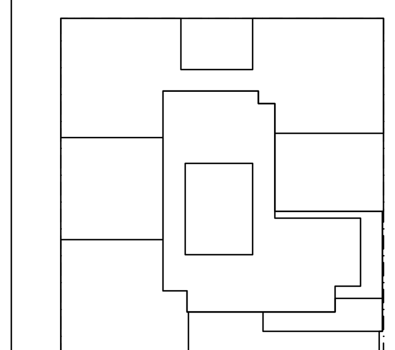
FILE NAME I:\150318\MECH\150318M-100 (CELLAR).dwg SAVED ON 2/1/2017 3:52 PM PLOTTED ON 2/3/2017 2:56 PM PLOTTED BY TOLKACH, LYUDMILA

DEPT OF BLDGS 420655954 Job Number
ES282208159 Scan Code



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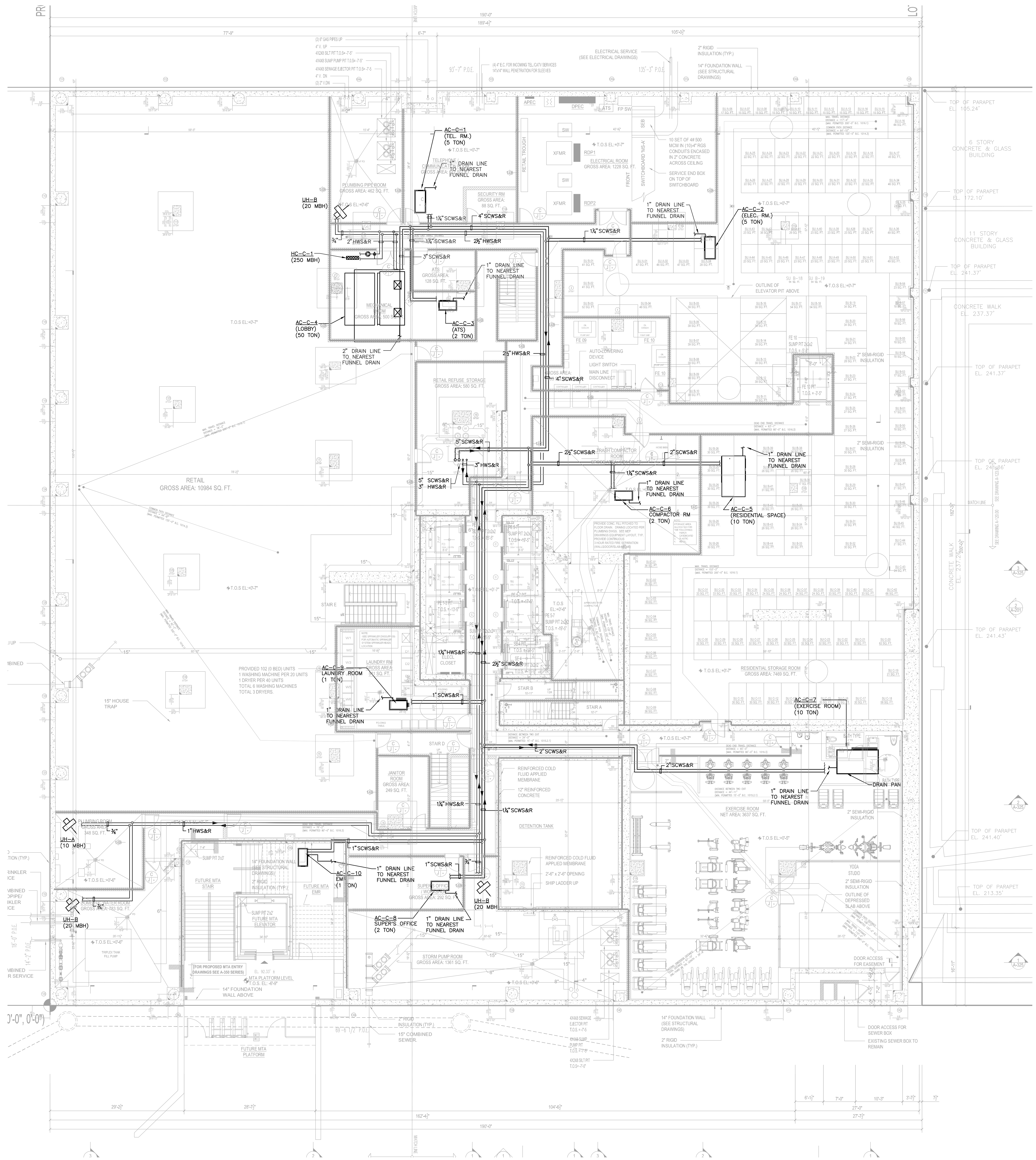

MECHANICAL CELLAR LEVEL FLOOR PIPING PLAN

SCALE: ⅛" = 1'-0"

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	02/03/2017	PROGRESS PRINT
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
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New York, NY 10004
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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
CELLAR FLOOR PLAN
PIPING

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
M-100P.00
DWG NO.
OF OF 58

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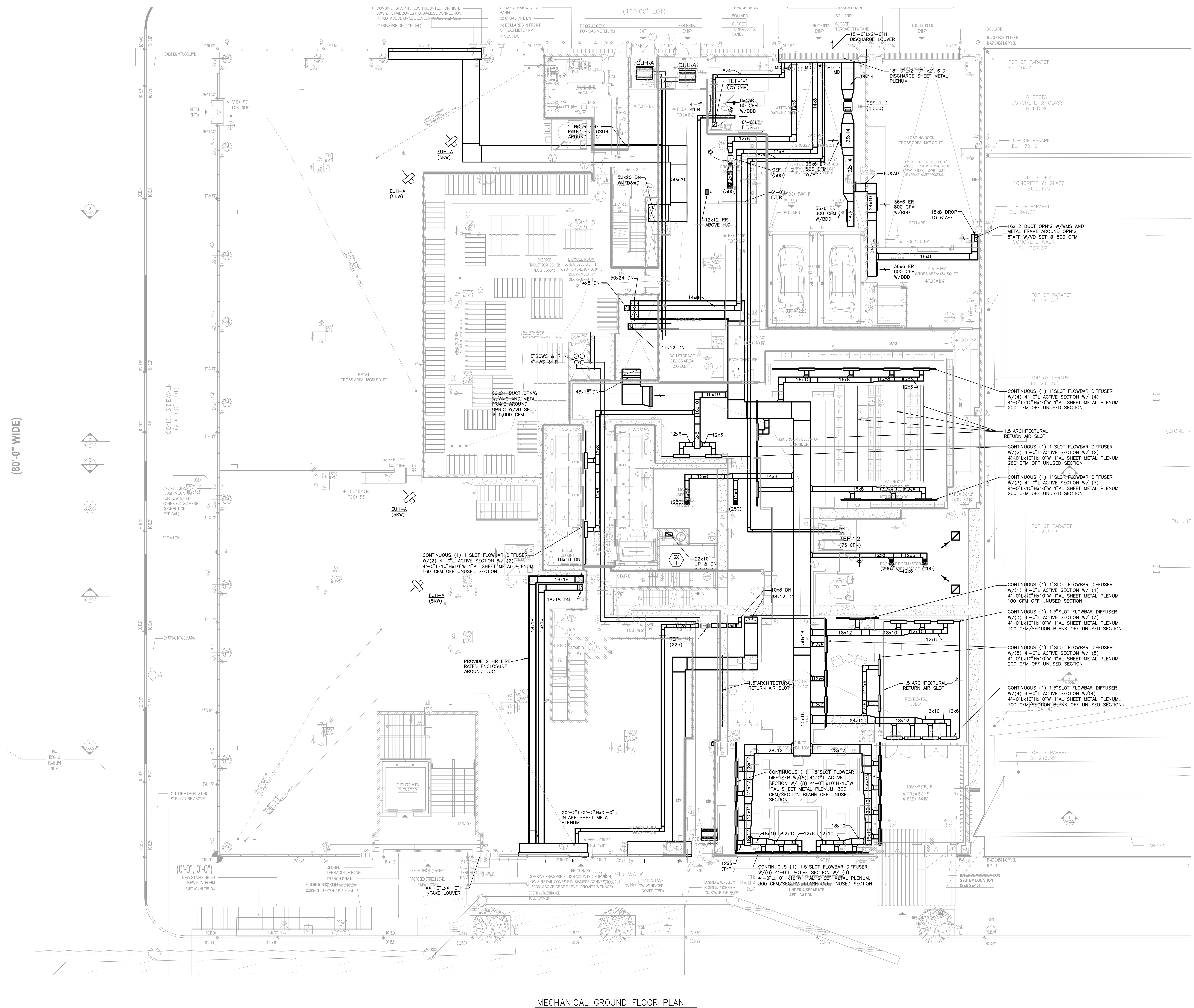

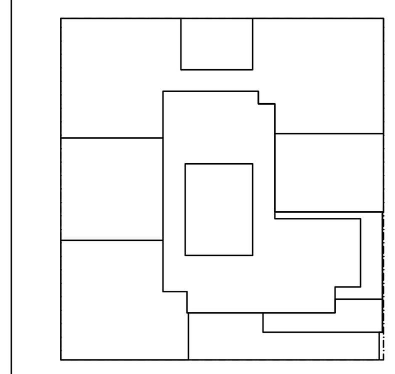

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
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Consultant:

DESIMONE CONSULTING ENGINEERS
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Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
GROUND FLOOR PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"

M-101.00
DWG NO.

x OF 58

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK CITY 2016

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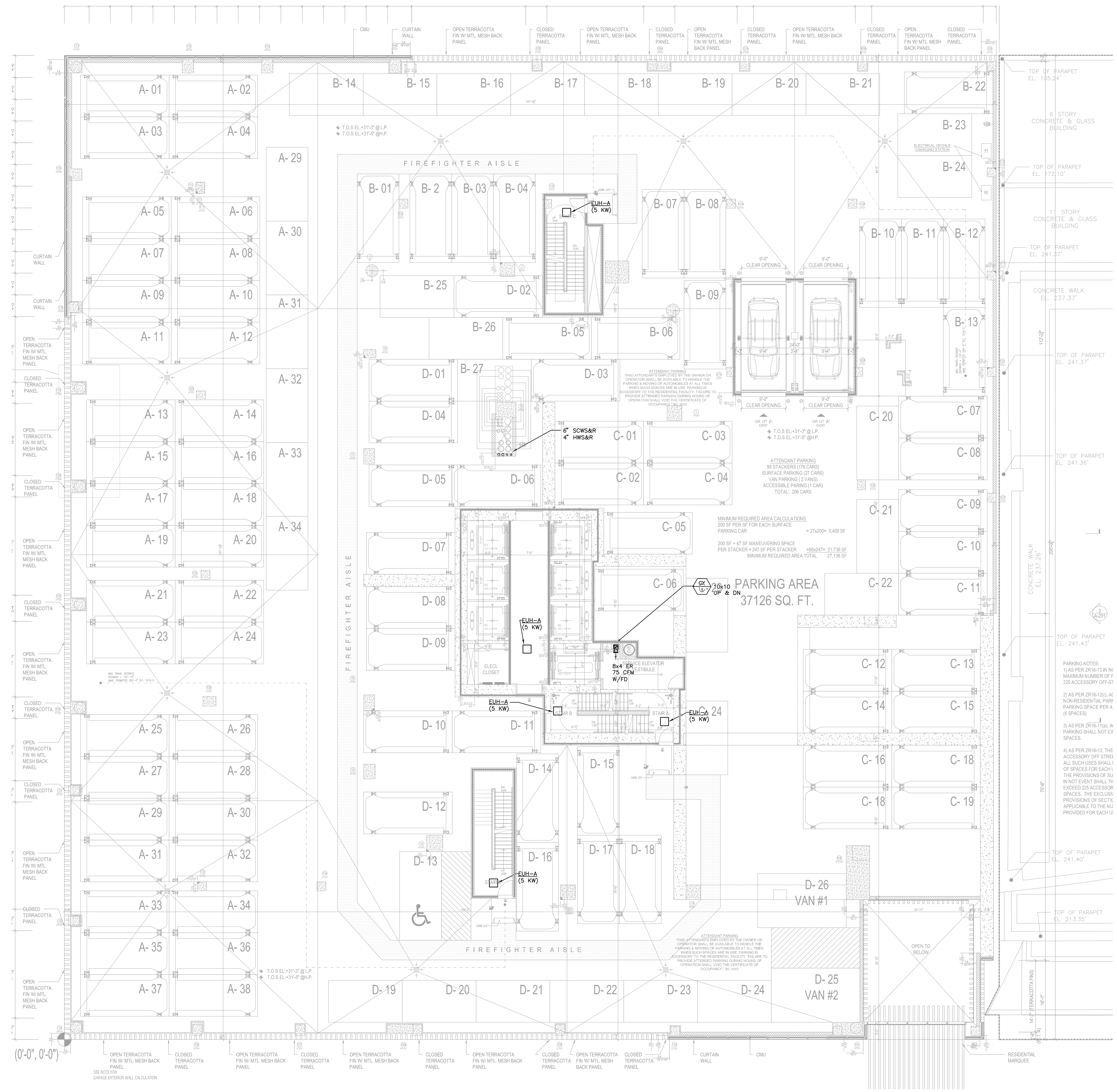
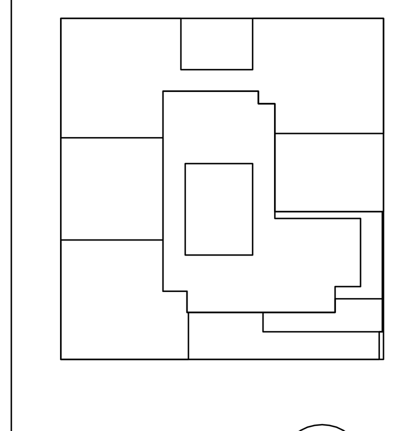


MECHANICAL 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

NOTES:

NOT	FOR	CONSTRUCTION
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	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET
Number:	Date:	Revision:

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:
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New York, NY 10121
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11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
2ND FLOOR PLAN (PARKING LEVEL)

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
M-102.00
DWG NO.
x OF 58

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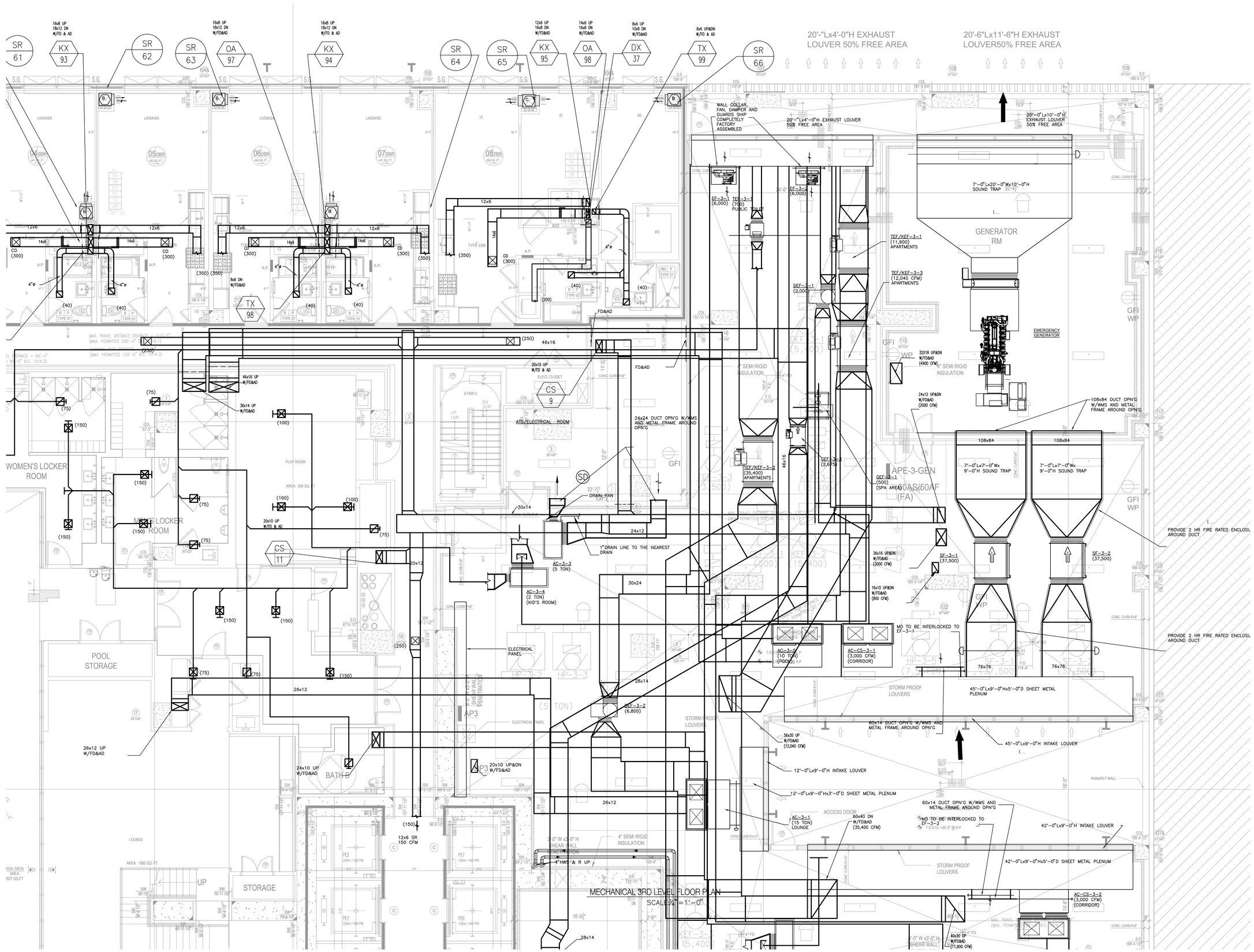
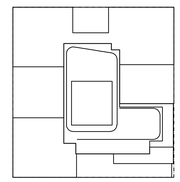
DEPT OF BLDGS 420055954 Job Number
Scan Code





KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	06/02/2017	65% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
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	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
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Consultant:

DESIMONE CONSULTING ENGINEERS
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New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
3RD FLOOR PLAN
AMENITES, MER

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15031B
SCALE: 1/4"= 1'-0"
DWG NO. M-103A.00
X OF

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DEPT OF BLDGS 420005954 Job Number
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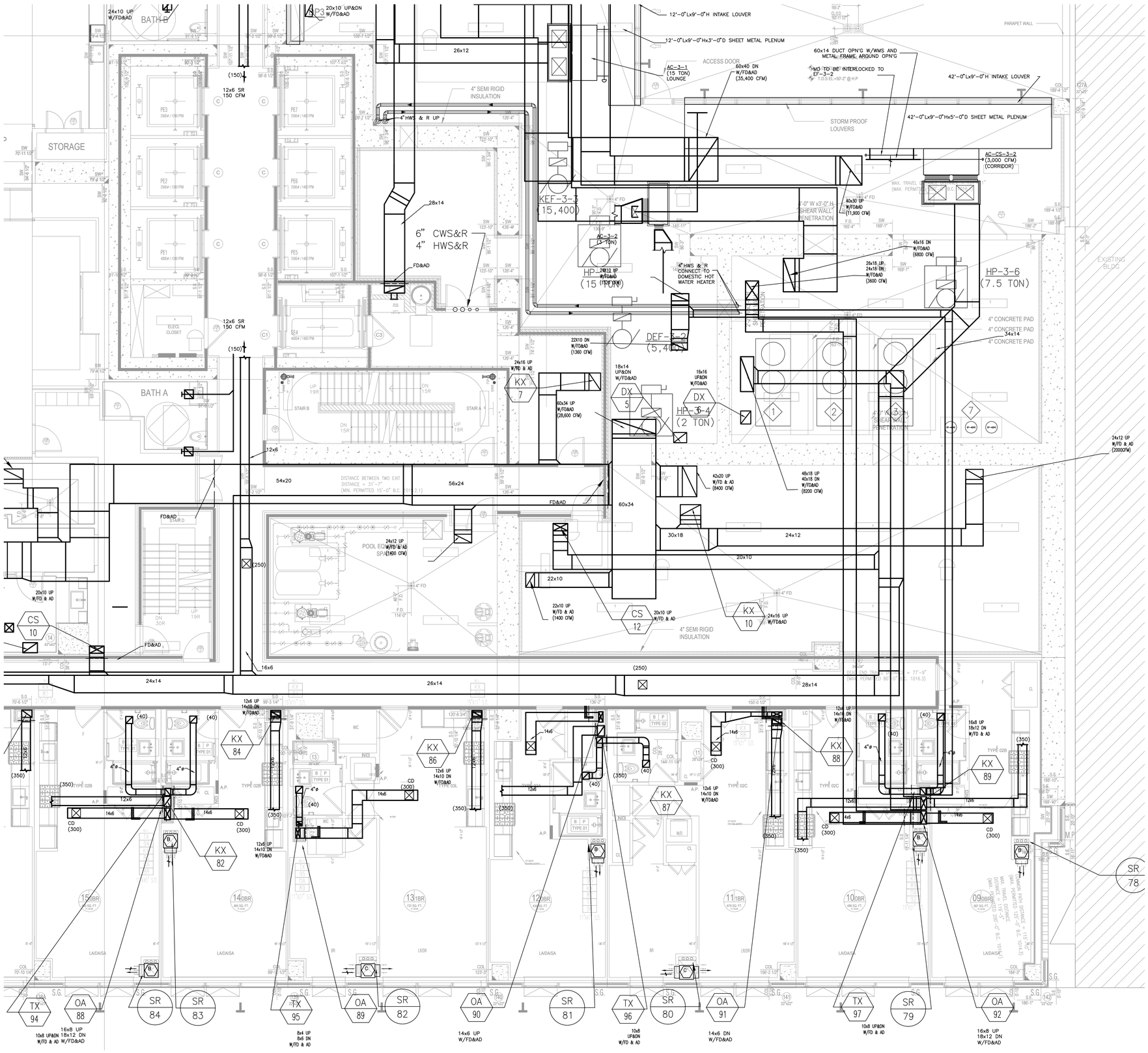
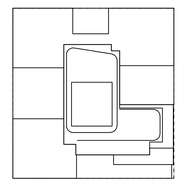


MECHANICAL 3RD LEVEL FLOOR PLAN

SCALE: ¼" = 1'-0"



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
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	06/02/2017	85% CD SET
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	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/13/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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Whitehall
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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
3RD FLOOR PLAN
AMENITES, MER

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4" = 1'-0"
DWG NO. M-103B.00
XF

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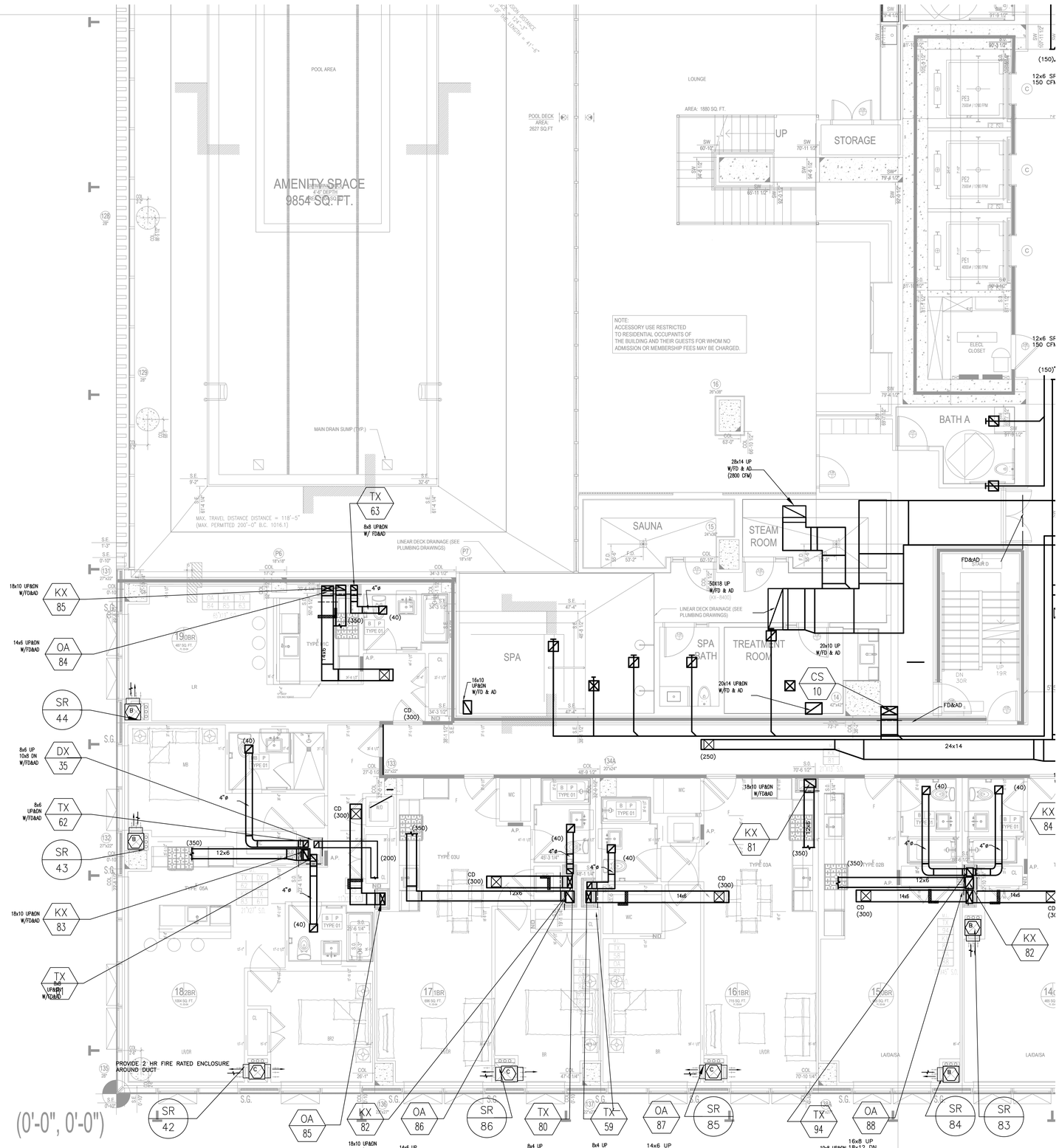
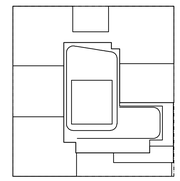


MECHANICAL 3RD LEVEL FLOOR PLAN

SCALE: ¼" = 1'-0"



KEY PLAN

NOTES:

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Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

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112-15 NORTHERN BLVD, CF-2
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Architect:

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11 BROADWAY
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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
3RD FLOOR PLAN
AMENITES, MER

SEAL & SIGNATURE:

STATE OF NEW YORK · DESIGN & CONSULTING ENGINEER · No. 08375

DATE:	09/15/2017
PROJECT #:	1503818
SCALE:	1/4" = 1'-0"

M-103C.00

DWG NO.

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TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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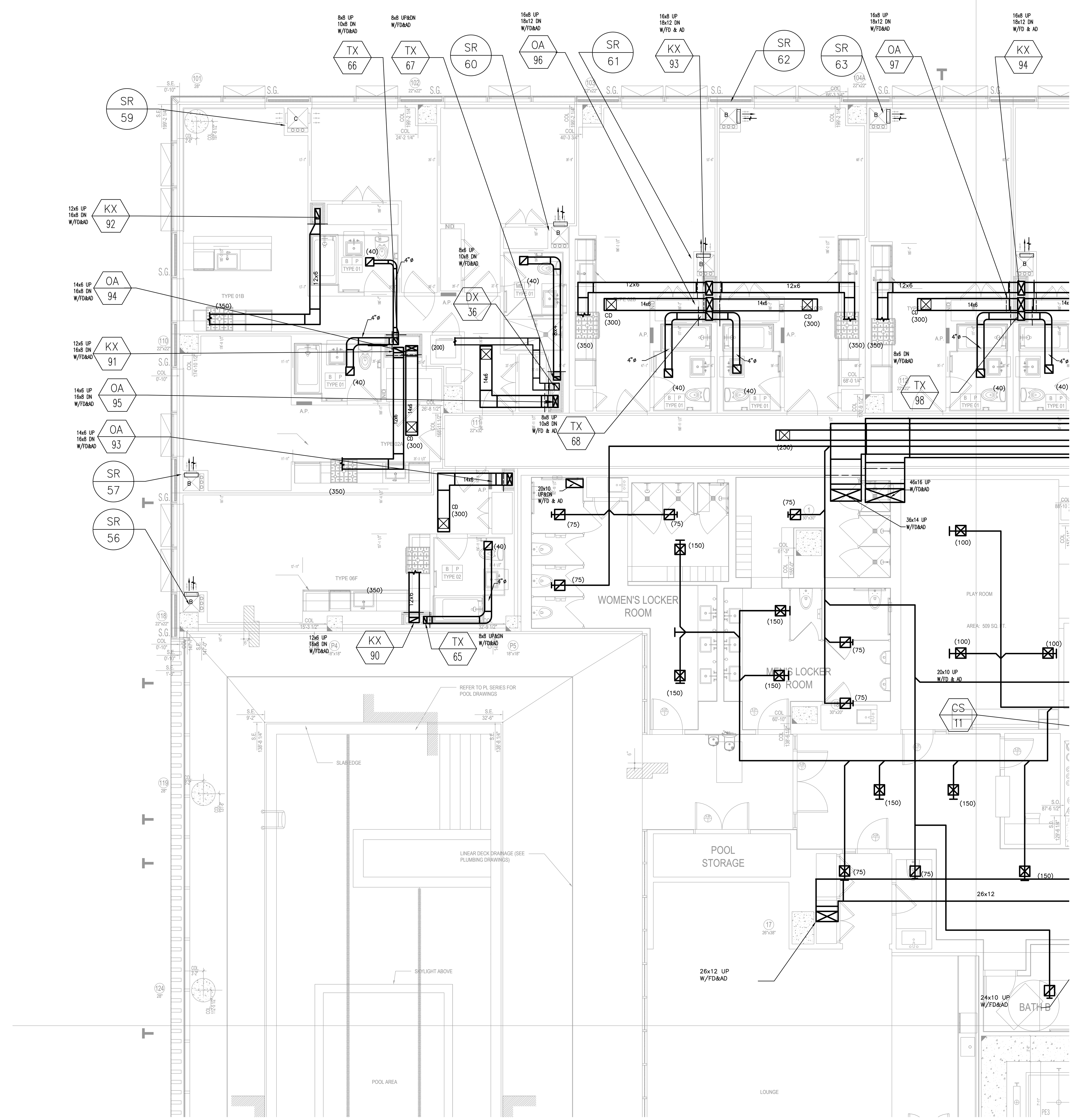
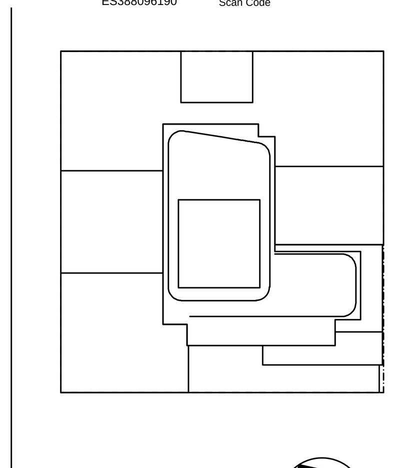


MECHANICAL 3RD LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
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	06/23/2017	DOB FILING SET
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	03/24/2017	50% CD SUBMISSION SET
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	01/25/2017	ISSUED FOR DOB
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	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
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DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
3RD FLOOR PLAN
AMENITES, MER

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4"= 1'-0"
M-103D.00
DWG NO.
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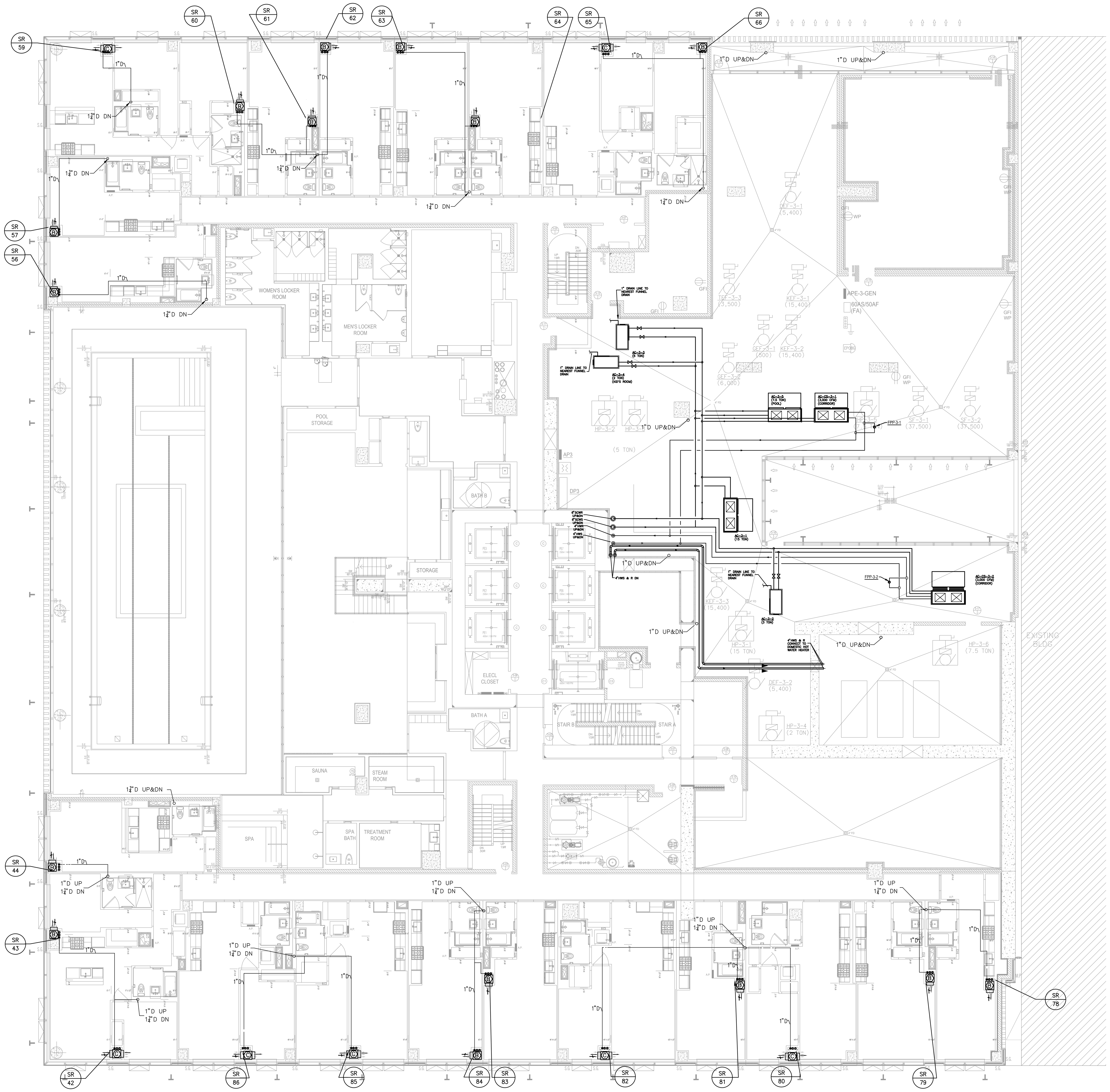
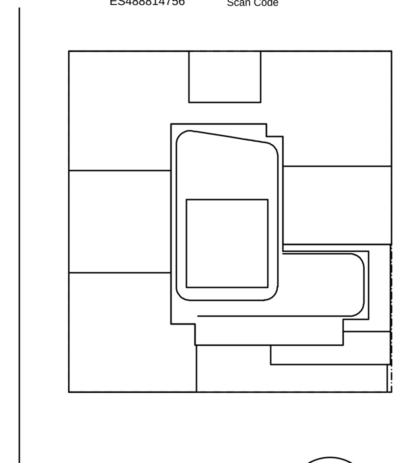
DEPT OF BLDGS 420655954 Job Number
ES488814756 Scan Code



MECHANICAL 3RD FLOOR PIPING PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
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NEW YORK, NY 10004
T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
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Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
3RD FLOOR PLAN
AMENITES, MER

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4"= 1'-0"
M-103P.00
DWG NO.
OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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DEPT OF BLDGS 420005954 Job Number
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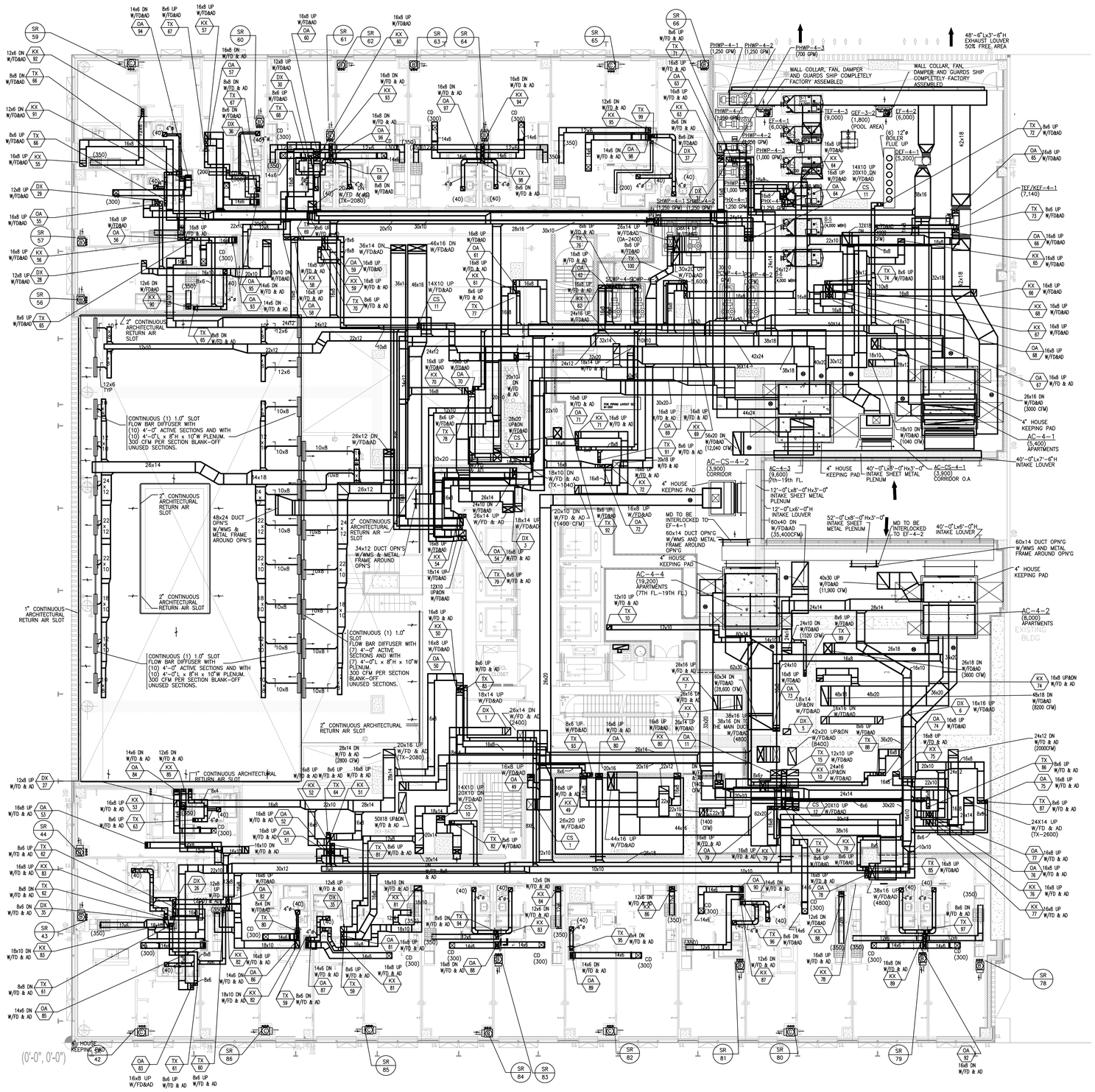

MECHANICAL 4TH FLOOR PLAN

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

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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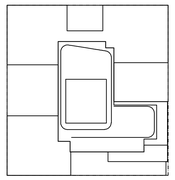

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

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09/15/2017	90% CD SET
06/02/2017	85% CD SET
03/24/2017	50% CD SUBMISSION SET
01/27/2017	SUPERSTRUCTURE SET
01/25/2017	ISSUED FOR DOB
11/17/2016	FACADE PRICING SET
11/11/2016	100% DD/FOUNDATION BID SET
10/12/2016	ISSUED FOR DOB
02/09/2016	DOB FILING SET

Number: Date: Revision:

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:

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Consultant:

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New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
4TH FLOOR PLANS
LOWER LEVEL

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15031B
SCALE: 1/8" = 1'-0"

M-104.00
DWG NO.

0F

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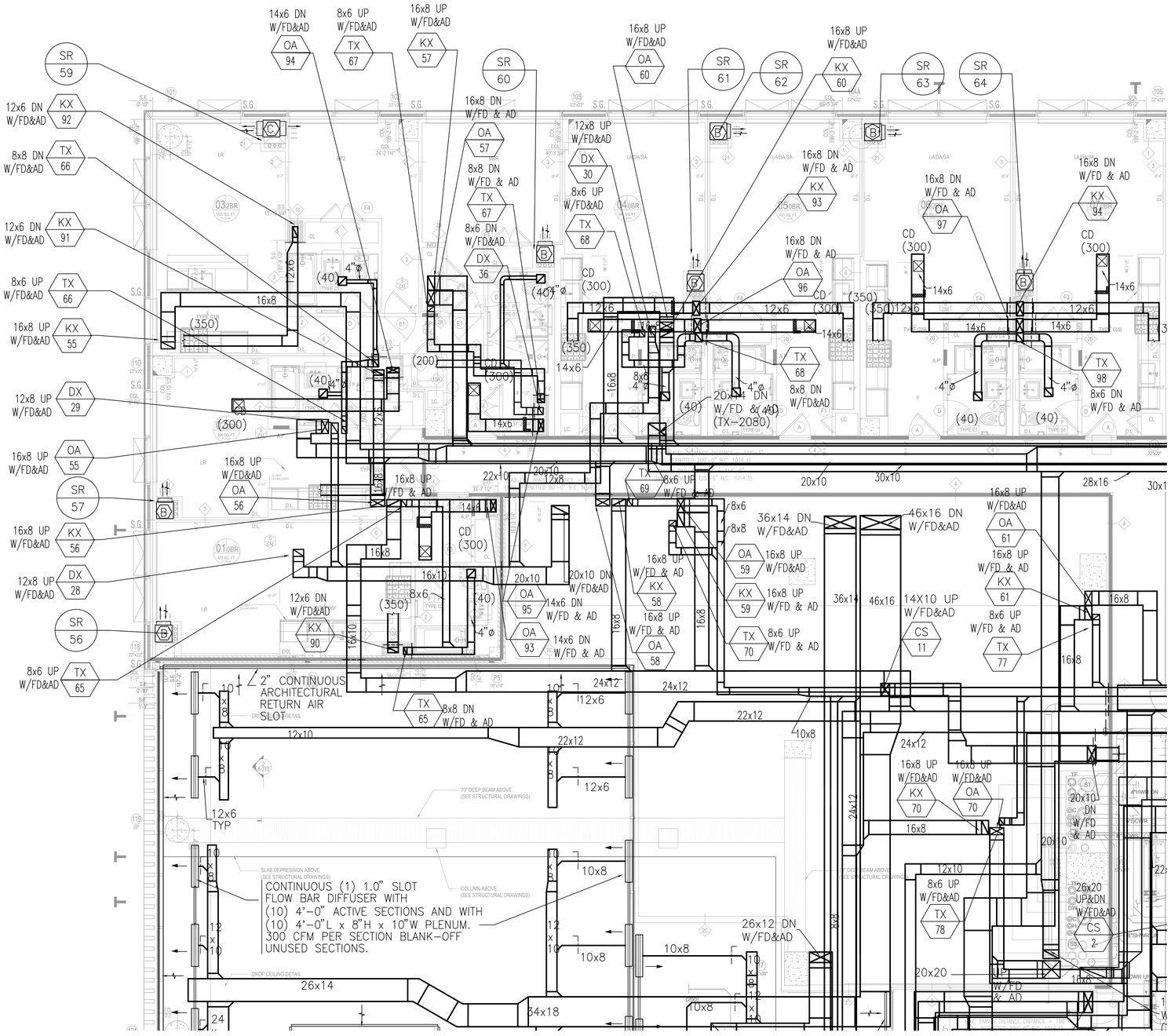
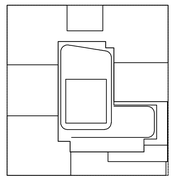


MECHANICAL 4TH FLOOR PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN

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NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	11/11/2016	100% DOFOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
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112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
4TH FLOOR PART PLANS
LOWER LEVEL

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4" = 1'-0"
DWG NO. M-104A
OF

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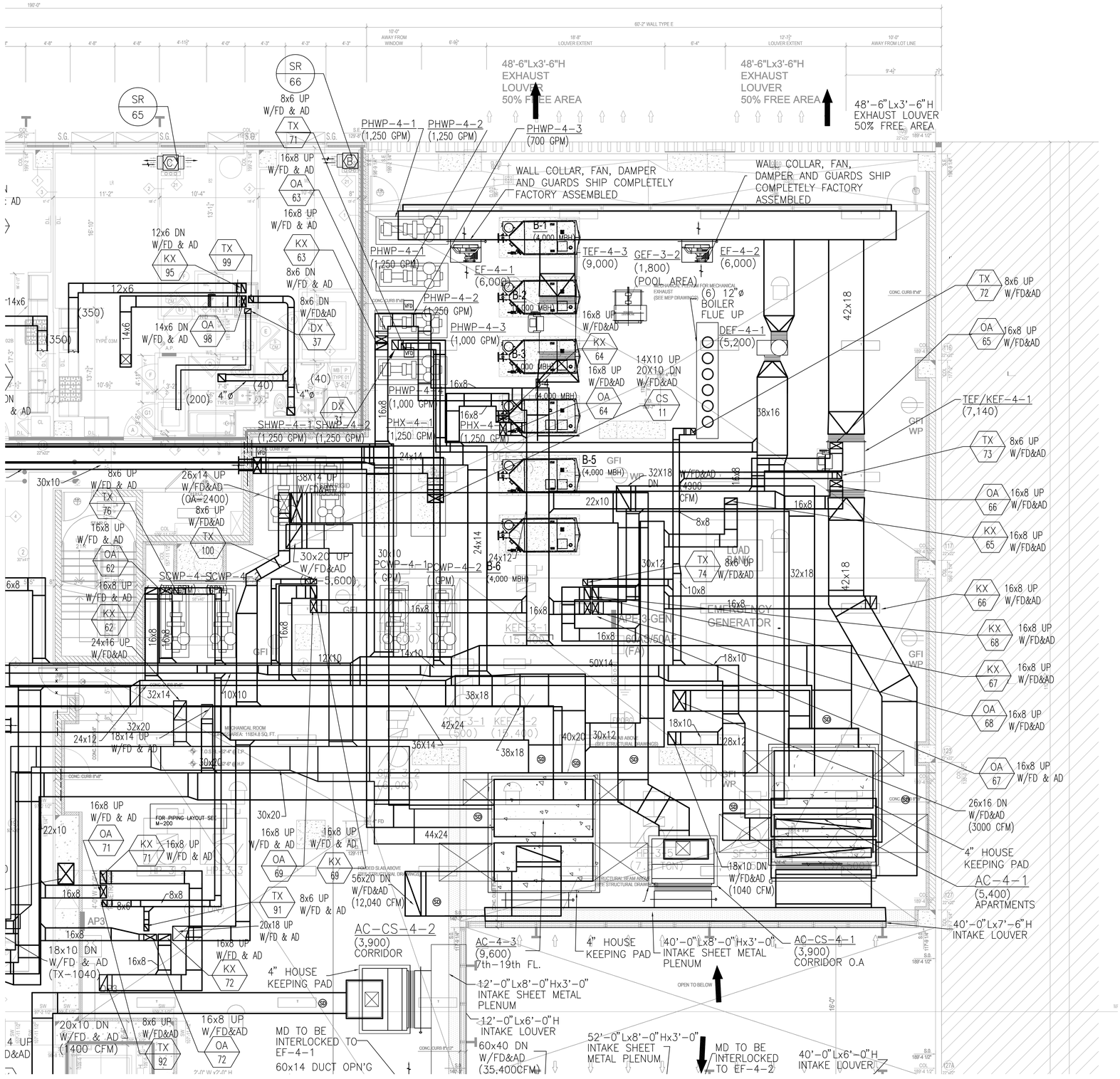
E500061287R Scan Code



MECHANICAL 4TH FLOOR PLAN
SCALE: 1/4" = 1'-0"

PLOTTED BY VALITE, VAN
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KEY PLAN

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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

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New York, NY 10121
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Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
4TH FLOOR PART PLANS
LOWER LEVEL

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4" = 1'-0"
DWG NO: M-104B

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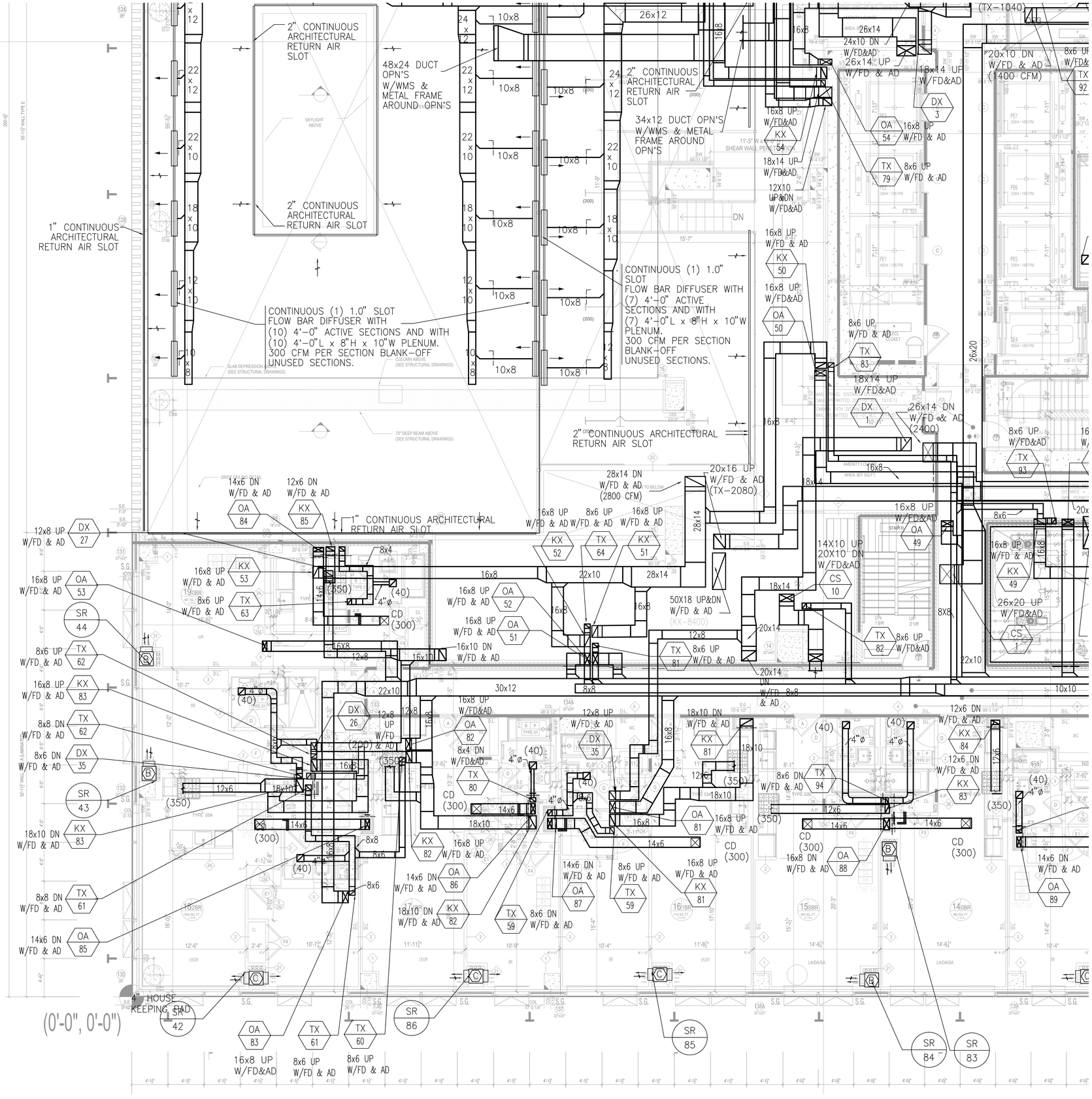

SCALE: 1/4" = 1'-0"

MECHANICAL 4TH FLOOR PLAN

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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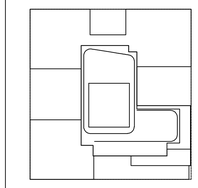

KEY PLAN

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NOT FOR CONSTRUCTION

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	01/27/2017	SUPERSTRUCTURE SET
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	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:

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Consultant:

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New York, NY 10121
(212) 615-3600

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11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
4TH FLOOR PART PLANS
LOWER LEVEL

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MEIER · No. 98378 · LICENSED PROFESSIONAL ENGINEER

DATE:	09/15/2017
PROJECT #:	150318
SCALE:	1/4" = 1'-0"

M-104C

DWG NO.

OF

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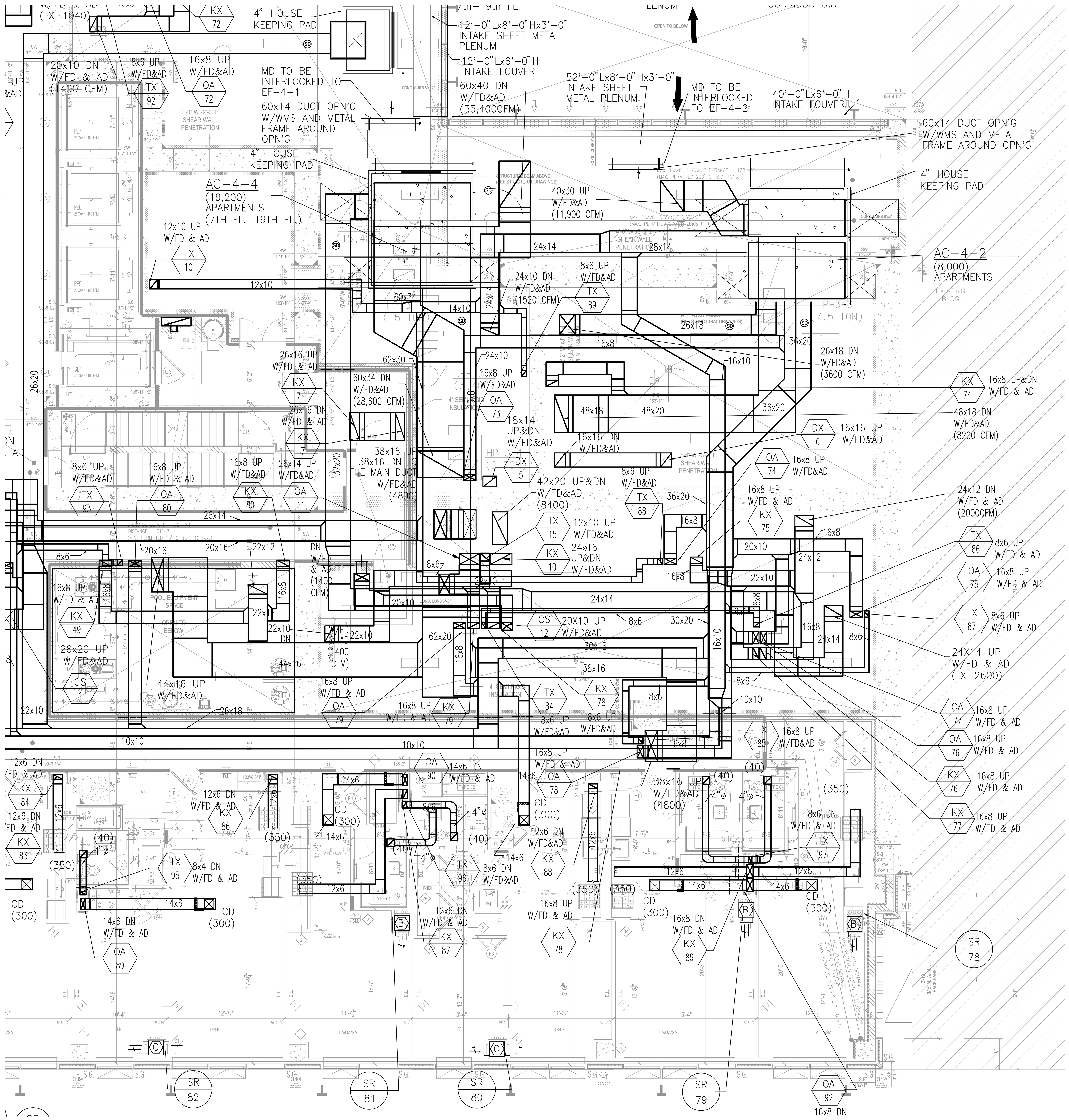

MECHANICAL 4TH FLOOR PLAN
SCALE: 1/4"=1'-0"

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KEY PLAN

NOTES:

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	02/06/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:
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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
4TH FLOOR PLANS
LOWER PART LEVEL

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15031B
SCALE: 1/4" = 1'-0"
M-104D
DWG NO.
OF

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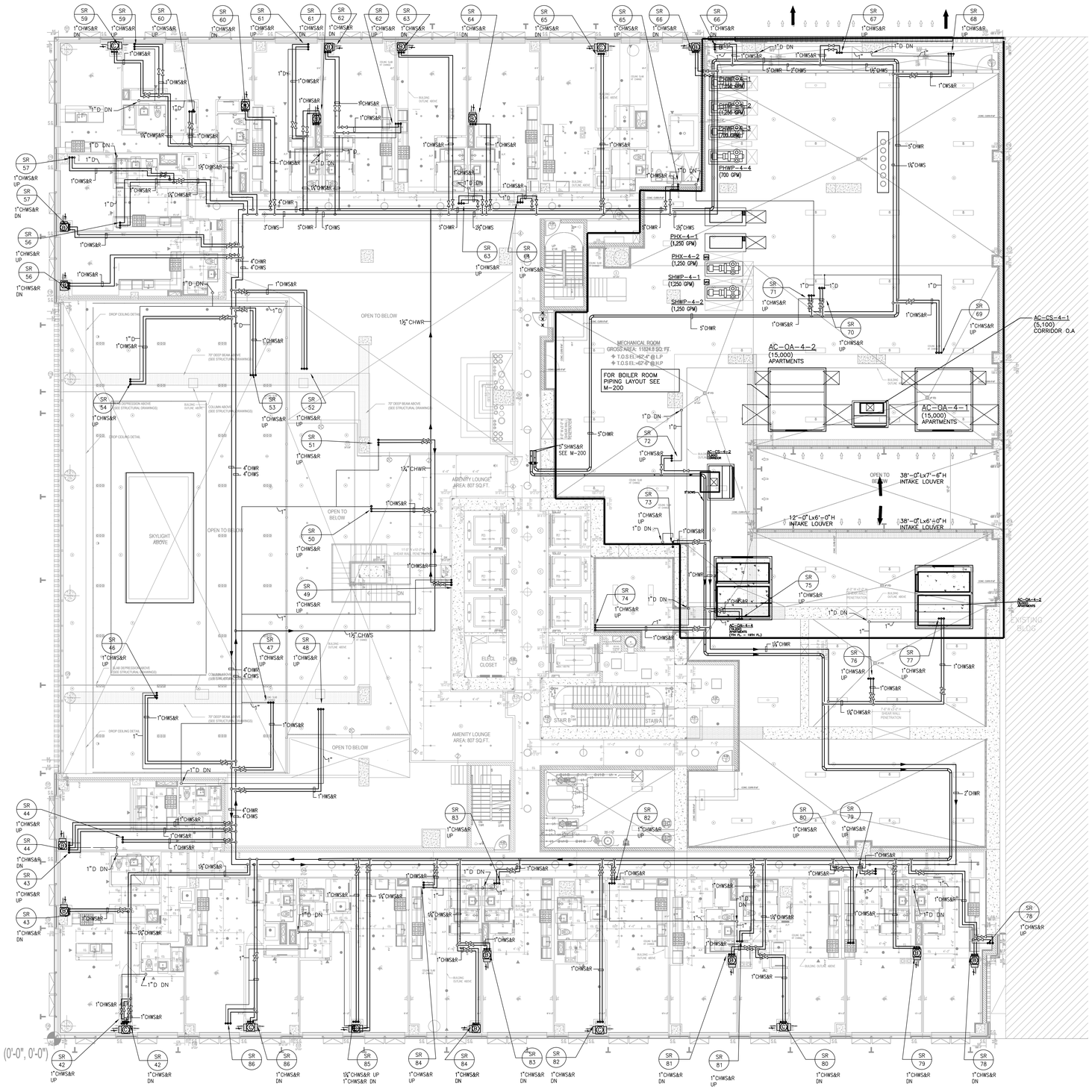
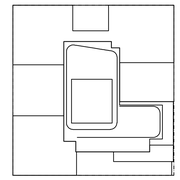


MECHANICAL 4TH FLOOR PLAN

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



KEY PLAN

NOTES:

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	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST
ARCHITECTS
11 BROADWAY
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NEW YORK, NY 10004
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New York, NY 10121
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11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
4TH FLOOR PLANS
PIPING

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. HEIDEL · No. 56375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
DWG NO. M-104P.00

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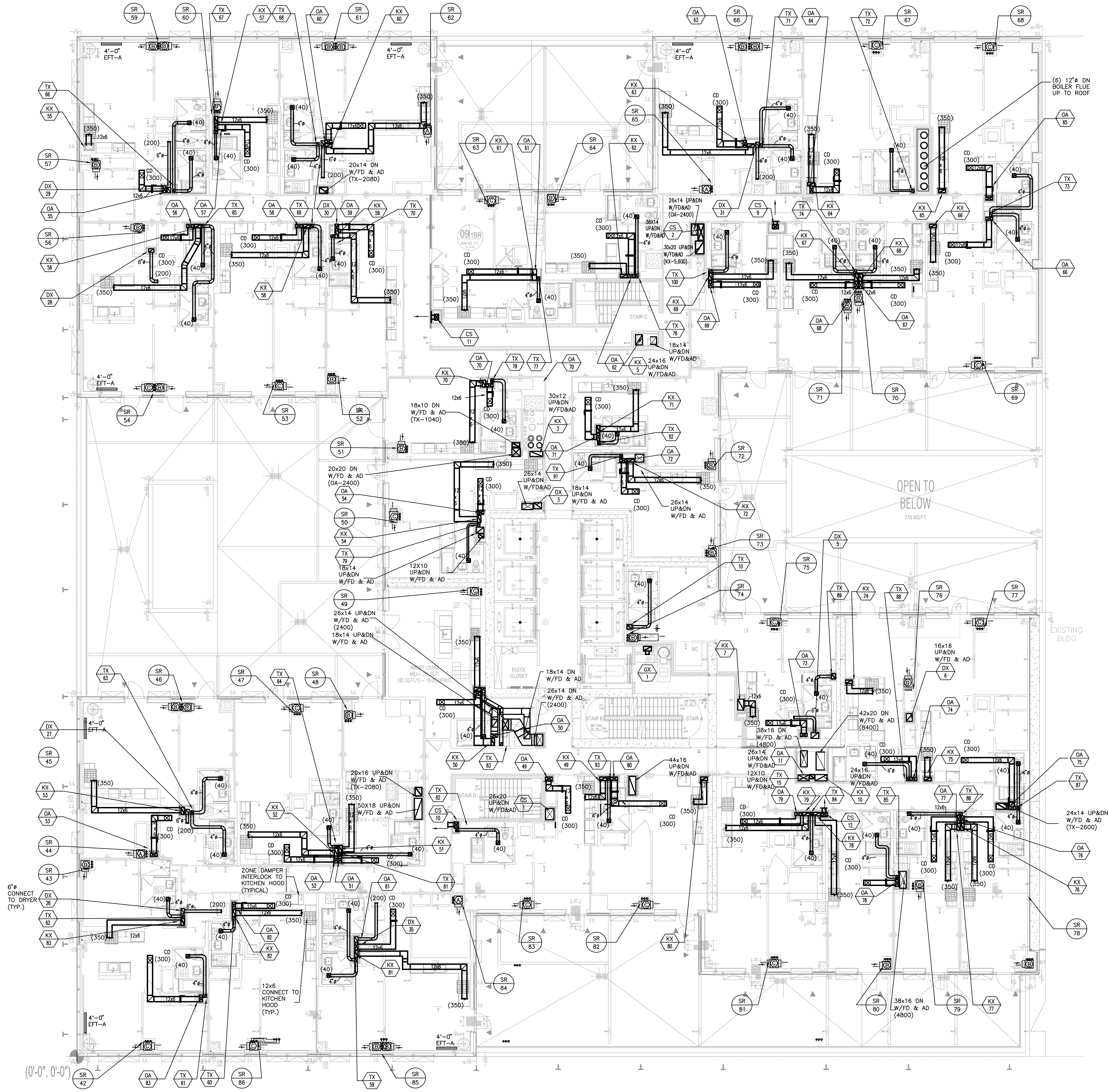
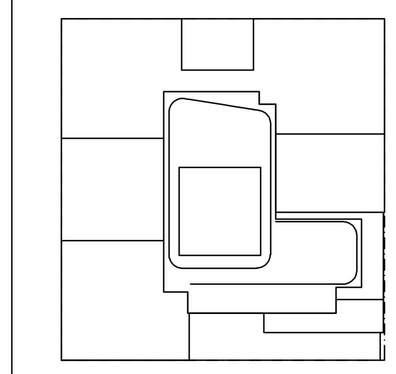


MECHANICAL 5TH FLOOR PLAN

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



KEY PLAN

NOTES:

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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
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Client:

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112-15 NORTHERN BLVD, CF-2
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Architect:

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Consultant:

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New York, NY 10121
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11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
5TH FLOOR PLAN
LOWER LEVEL

SEAL & SIGNATURE:

DATE: 09/15/2017

PROJECT #: 150318

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

M-105.00

DWG NO.

xOF

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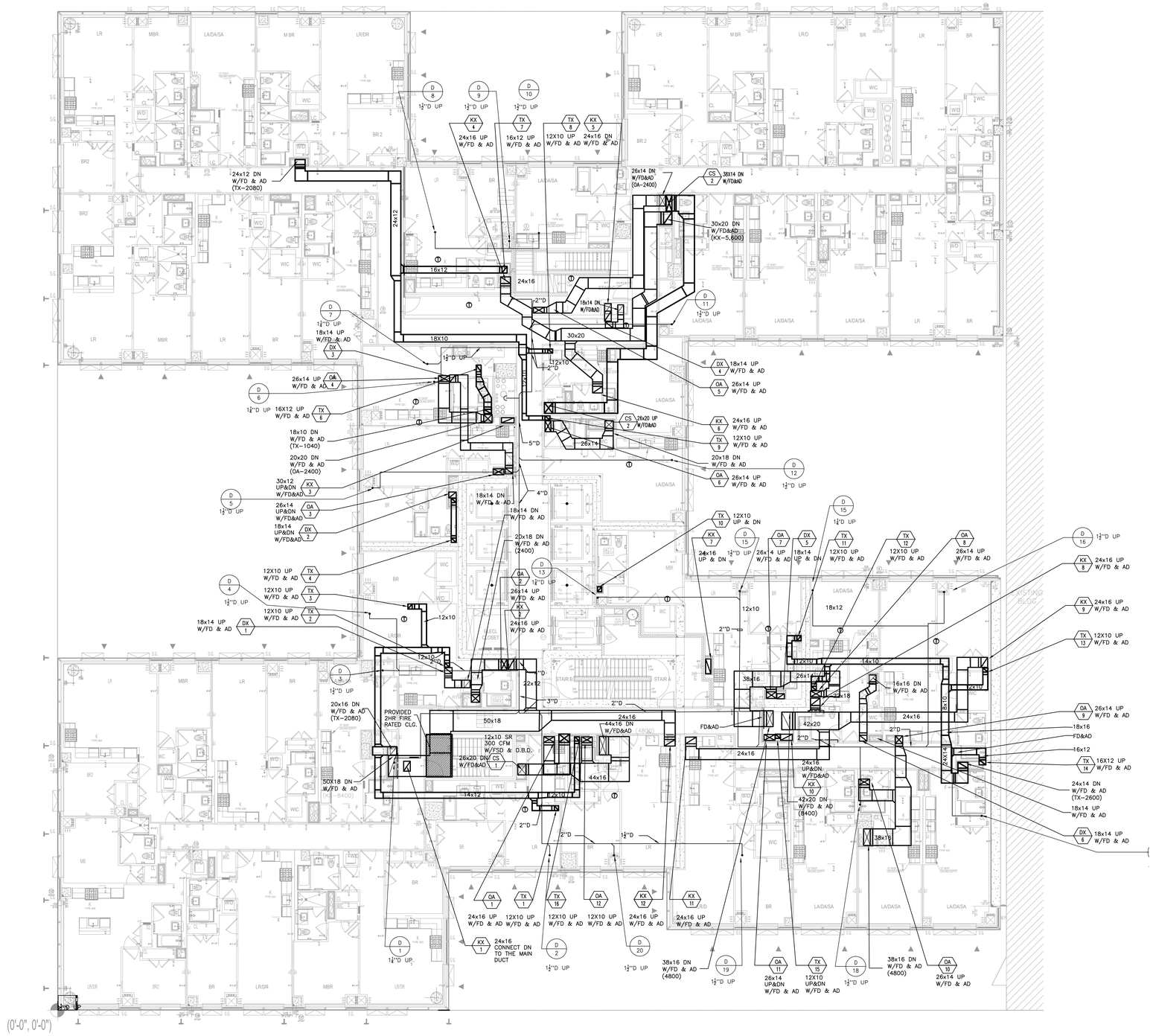
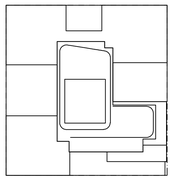
B420563972SI Scan Code



MECHANICAL 6TH FLOOR PLAN

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



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

10/06/2017	ISSUED FOR DOB	
09/15/2017	90% CD SET	
06/02/2017	85% CD SET	
03/24/2017	50% CD SUBMISSION SET	
01/27/2017	SUPERSTRUCTURE SET	
01/25/2017	ISSUED FOR DOB	
11/17/2016	FACADE PRICING SET	
11/11/2016	100% DD/FOUNDATION BID SET	
10/12/2016	ISSUED FOR DOB	
02/05/2016	DOB FILING SET	
Number:	Date:	Revision:

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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Consultant:

DESIMONE CONSULTING ENGINEERS
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Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
6TH FLOOR PLAN
LOWER LEVEL

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15003818
SCALE: 1/8" = 1'-0"
DWG NO: M-106.00
xOF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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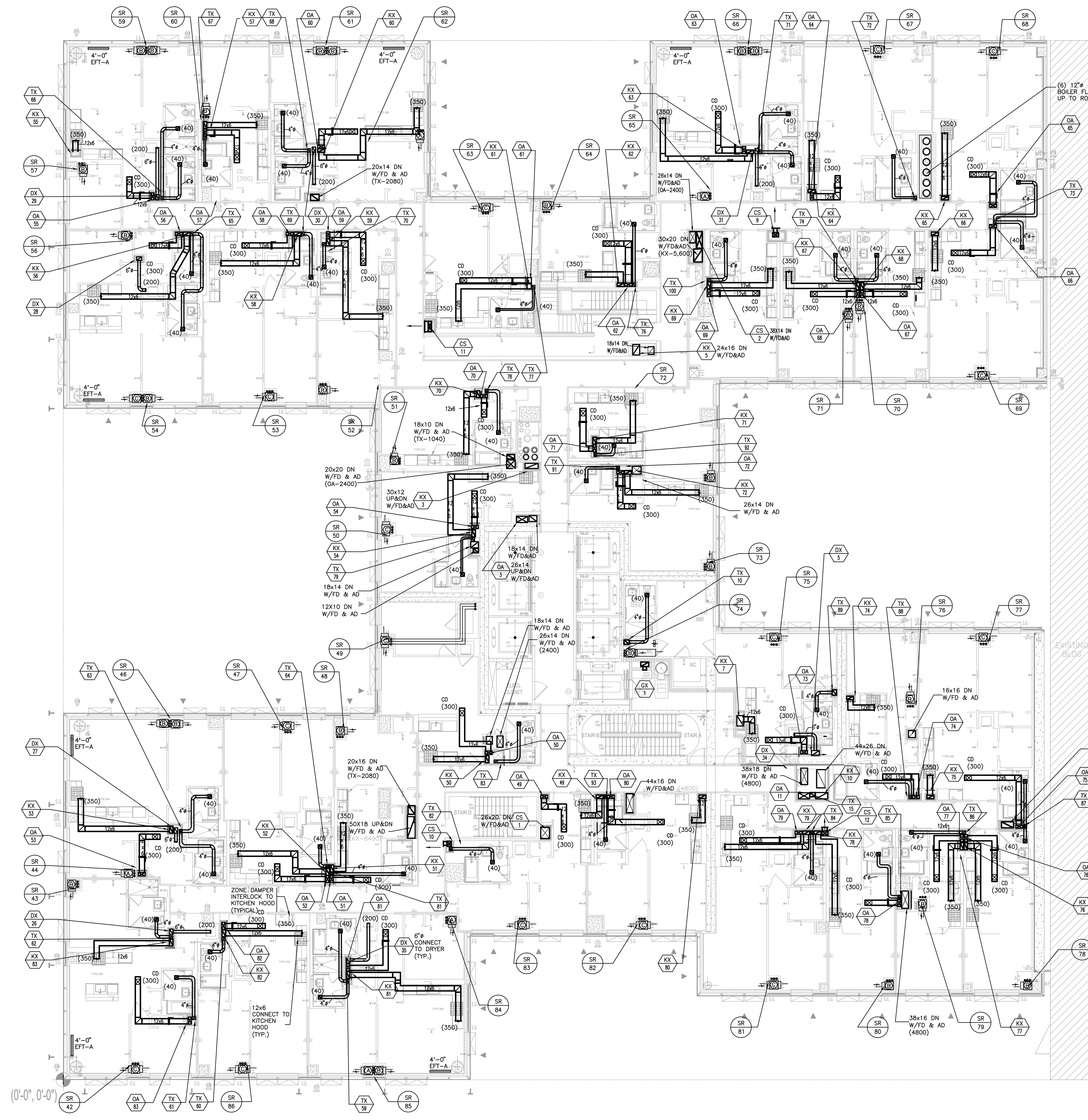
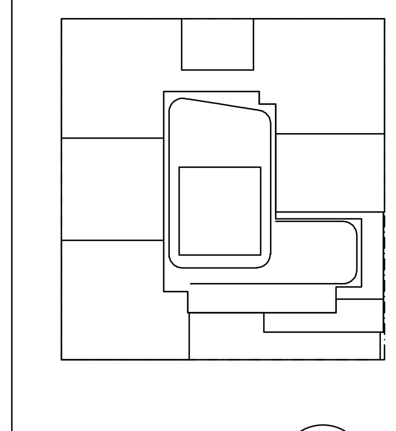
FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-106A (6TH LEVEL).dwg SAVED ON 10/4/2017 11:49 AM PLOTTED ON 10/12/2017 2:51 PM PLOTTED BY VALITE, VAN



MECHANICAL 6TH FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
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Architect:

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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
6TH FLOOR PLAN
UPPER LEVEL

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
M-106A.00
DWG NO.
xOF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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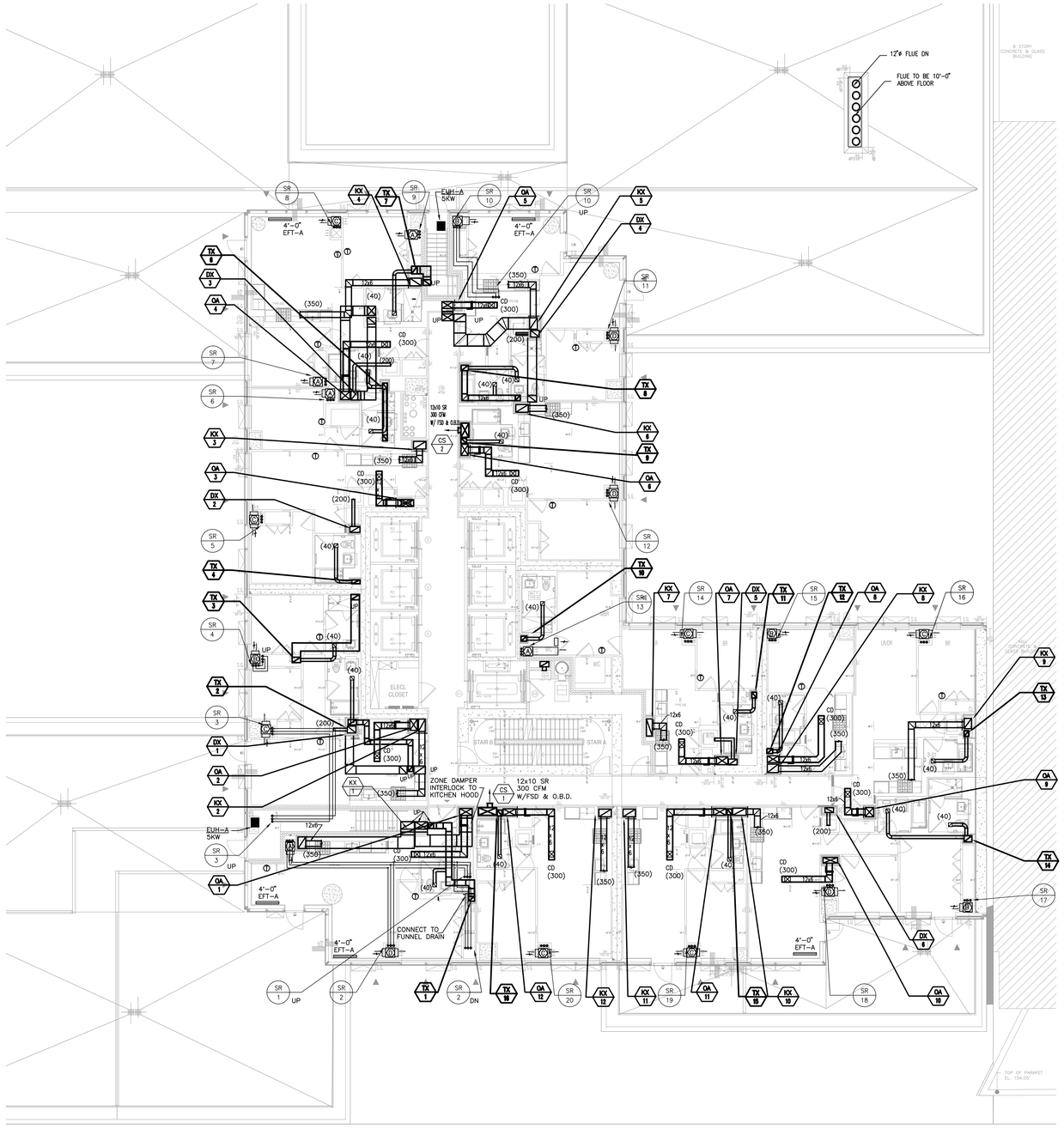
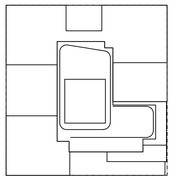


MECHANICAL 7TH FLOOR PLAN

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



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/07/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

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Client:

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Architect:

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DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
7TH FLOOR PLAN
LOWER LEVEL

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. WEST · No. 86375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
DWG NO. M-107.00

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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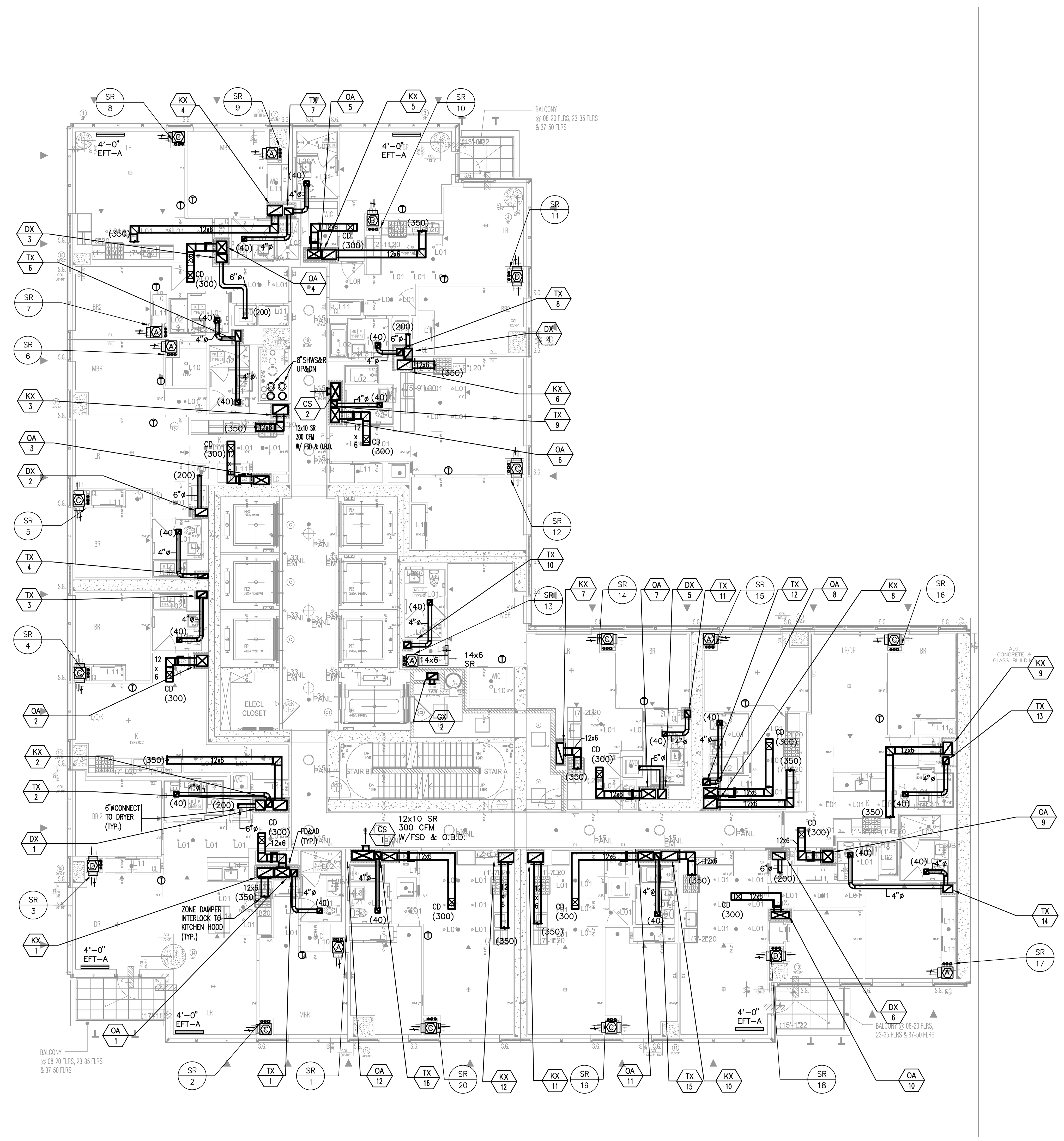
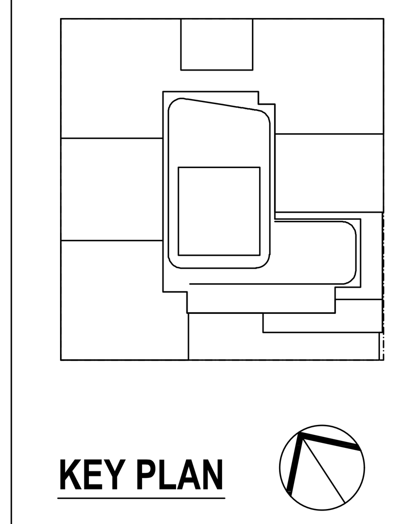


MECHANICAL 8TH - 19TH FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

NOTES:

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Number:	Date:	Revision:
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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
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Long Island City, NY 11101

Client:
Cityview Tower LLC
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New York, NY 10121
(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
8TH - 19TH FLOOR PLAN
LOWER LEVEL

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
M-108.00
DWG NO.
x OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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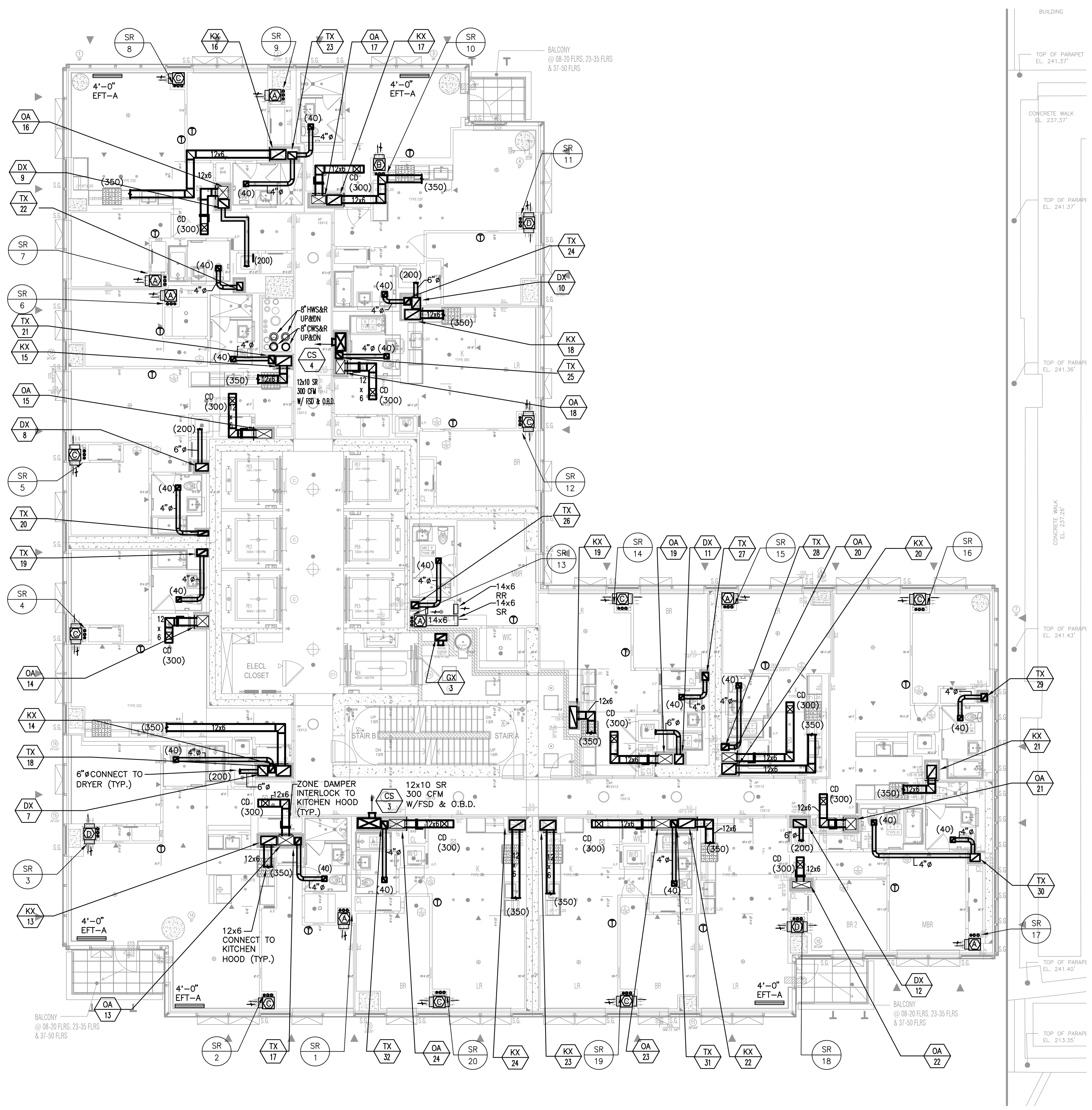
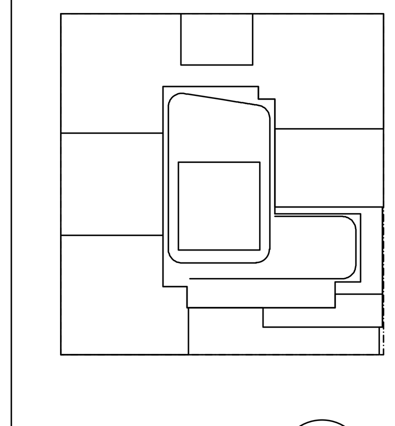


MECHANICAL 20TH-34TH FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

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NOT FOR CONSTRUCTION

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	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:
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New York, NY 10121
(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
20TH-34TH FLOOR PLAN
LOWER LEVEL

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
M-109.00
DWG NO.
xOF

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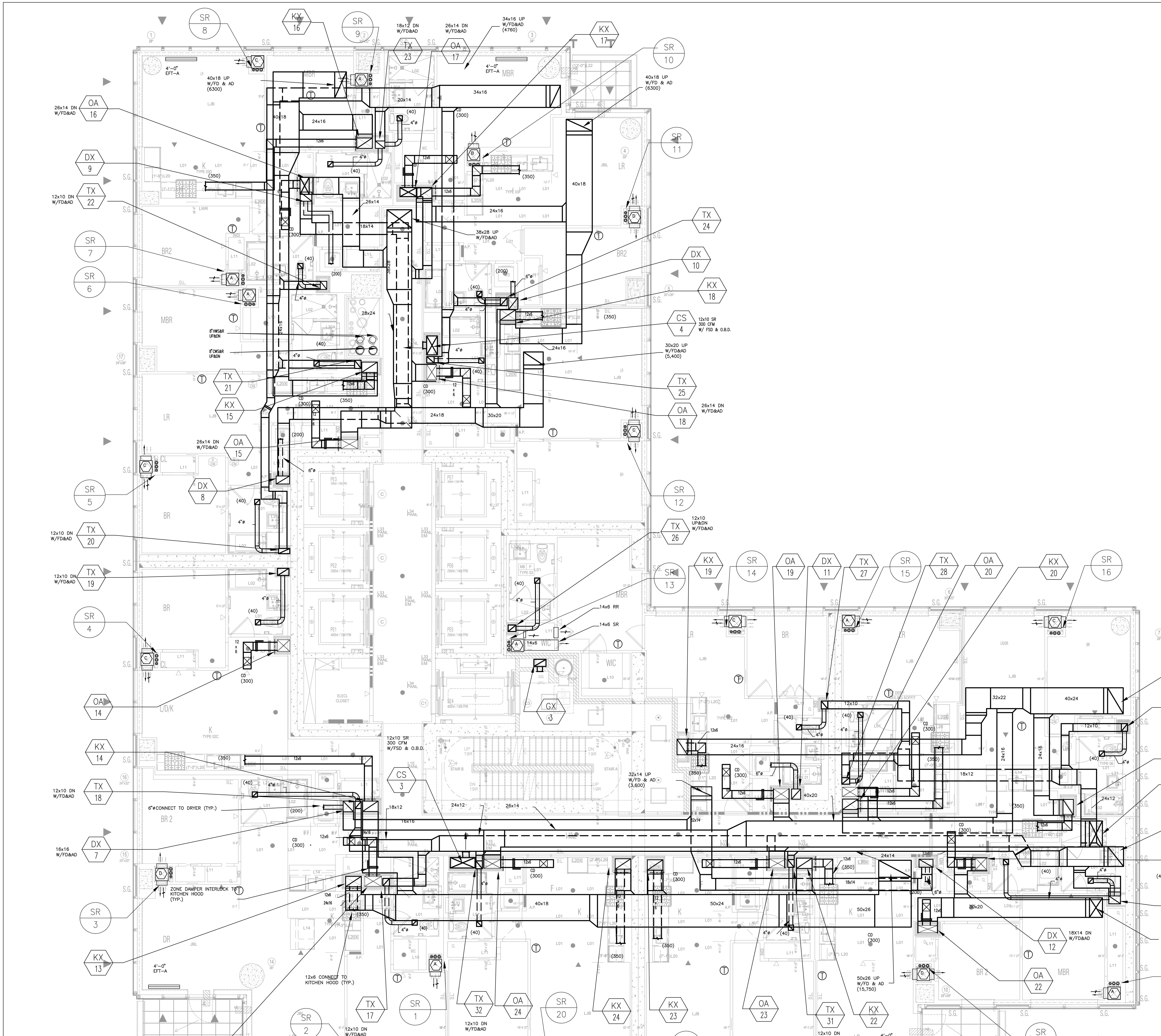
FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-109 (20TH-34TH LEVEL).dwg SAVED ON 8/4/2017 5:04 PM PLOTTED ON 10/12/2017 2:53 PM PLOTTED BY VALITE, VAN



MECHANICAL 35TH FLOOR PLAN

SCALE: ¼" = 1'-0"

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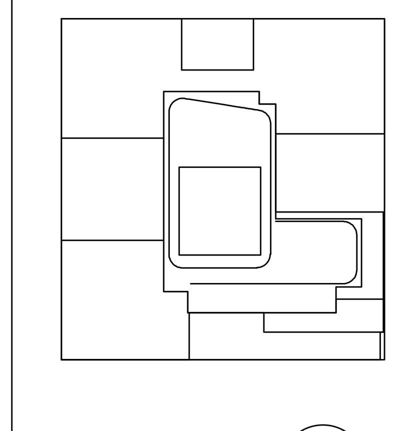

KEY PLAN

NOTES:

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Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS

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Consultant:

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Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
35TH FLOOR PLAN
LOWER LEVEL

SEAL & SIGNATURE: STATE OF NEW YORK — DOUGLAS C. MASS — LICENSED PROFESSIONAL ENGINEER — No. 58375

DATE: 09/15/2017

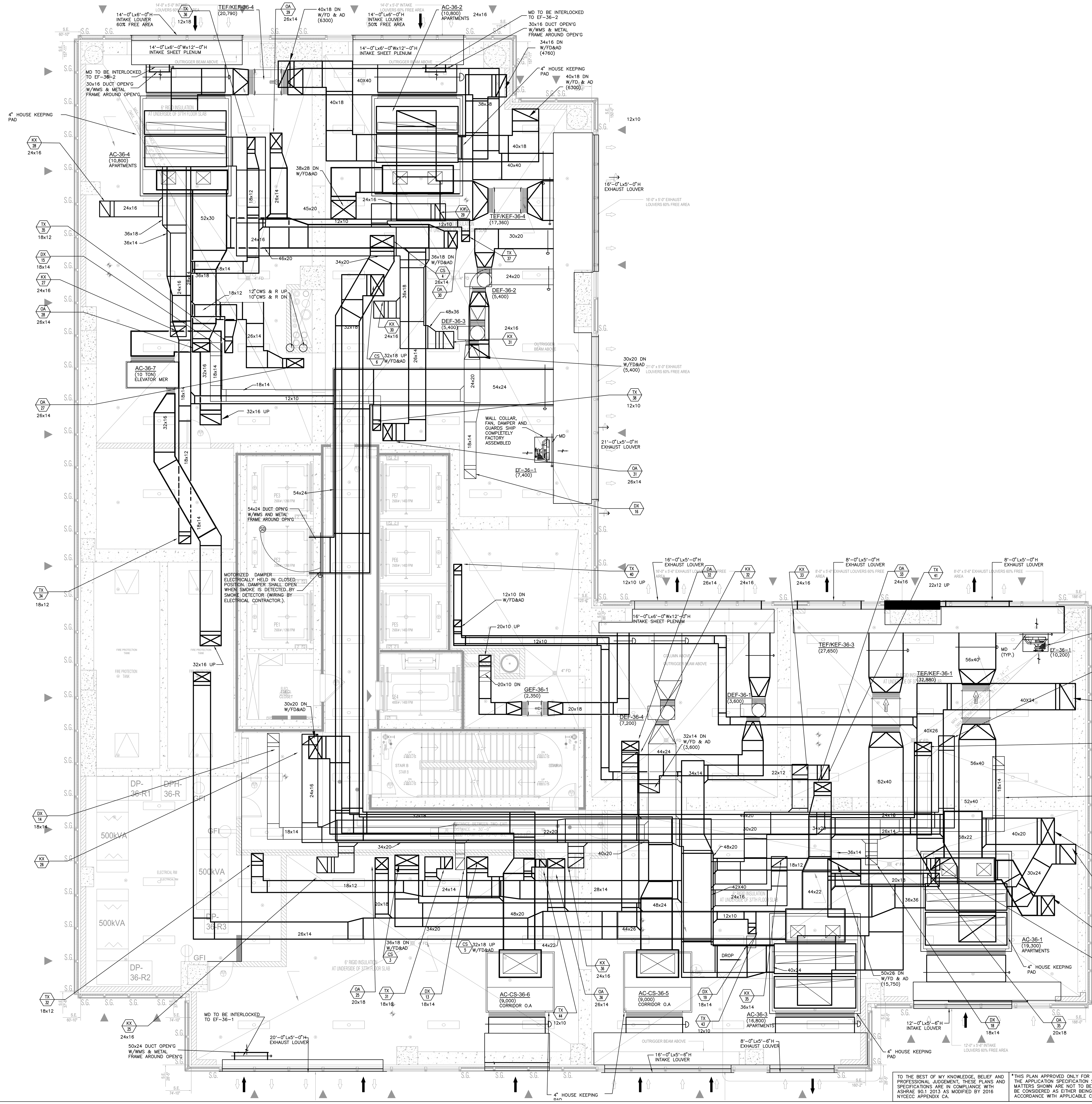
PROJECT #: 150318

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

DWG NO. M-110.00

xOF

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-110 (35TH LEVEL).dwg SAVED ON 10/9/2017 12:29 PM PLOTTED ON 10/12/2017 2:54 PM PLOTTED BY VALITE, VAN



MECHANICAL 36TH LEVEL FLOOR PLAN

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

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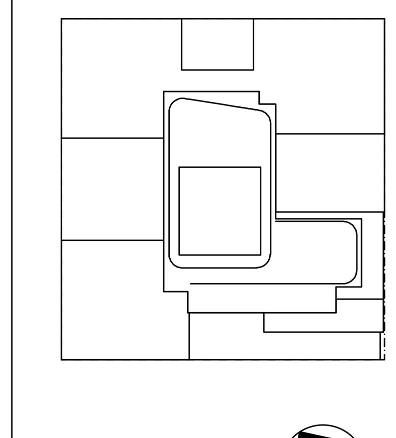

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:

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DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
36TH FLOOR PLAN
MER

SEAL & SIGNATURE: STATE OF NEW YORK DOUGLAS C. MASS No. 58375 LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4"= 1'-0"
M-111.00
DWG NO.
OF

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-111 (36TH FL. MECH).dwg SAVED ON 10/11/2017 4:51 PM PLOTTED ON 10/12/2017 2:54 PM PLOTTED BY VALITE, VAN

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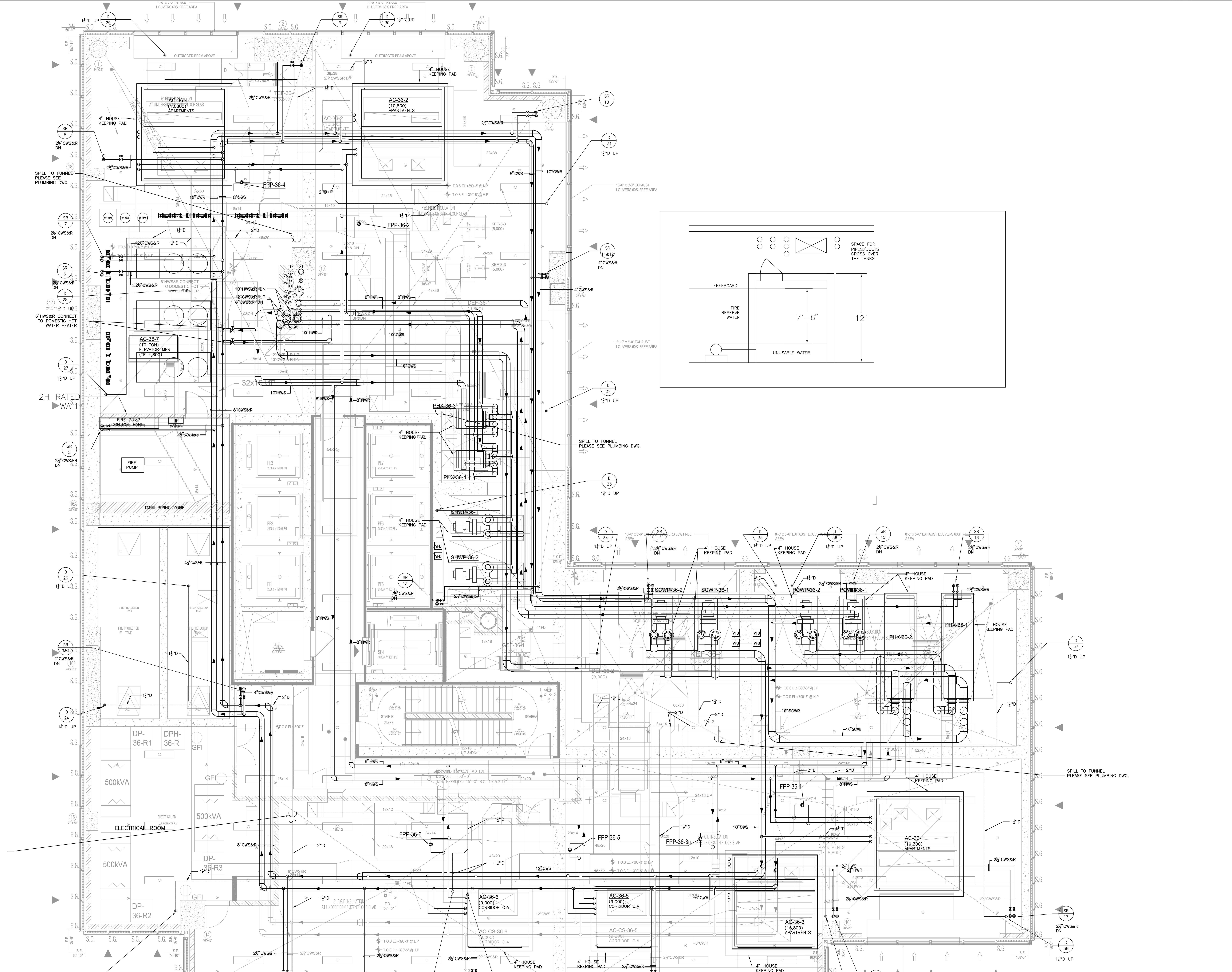

MECHANICAL 36TH LEVEL FLOOR PIPING PLAN

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

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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
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	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
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112-15 NORTHERN BLVD, CF-2
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Architect:
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Consultant:
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(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
36TH FLOOR PLAN
PIPING

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4"= 1'-0"
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DWG NO.
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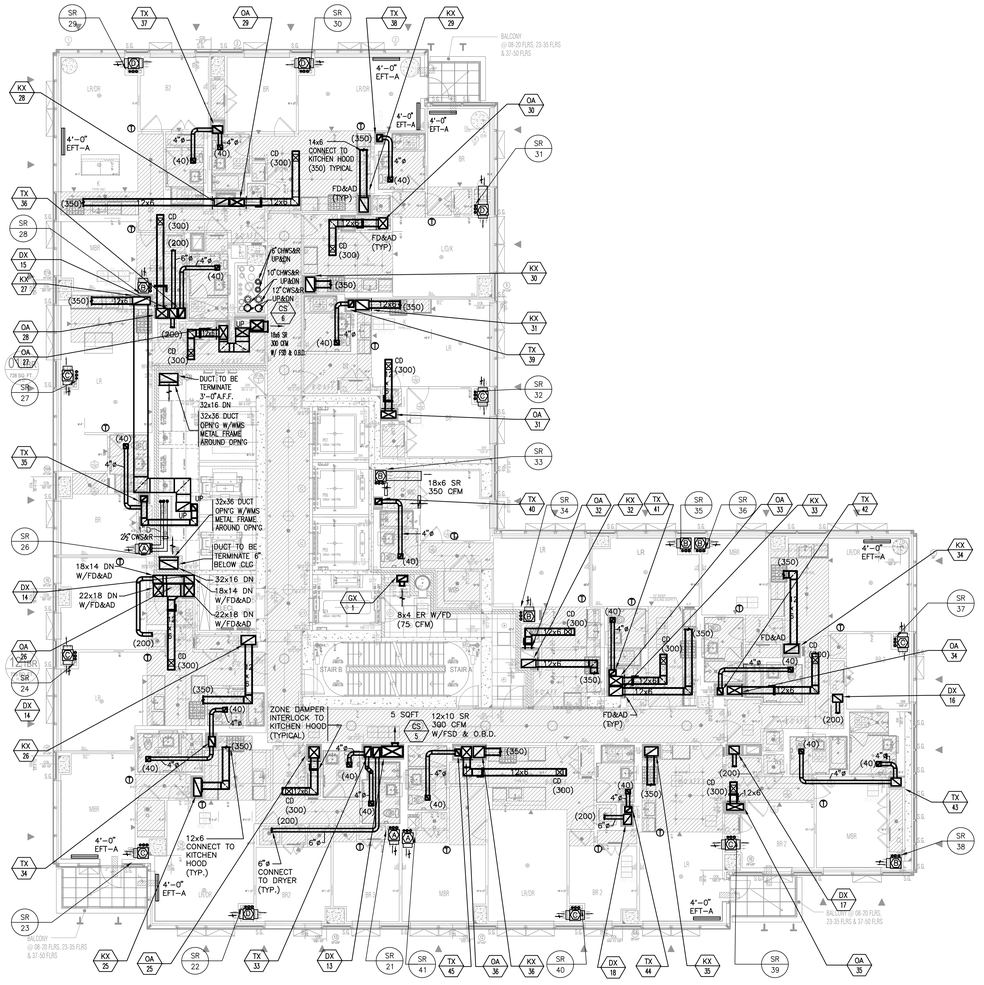
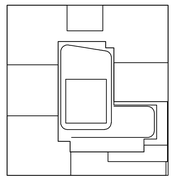


MECHANICAL 37TH FLOOR PLAN

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



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
140 Broadway 25th Floor
New York, NY, 10005
(212) 532-2211

Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
37TH FLOOR PLAN
MID LEVEL

SEAL & SIGNATURE:

STATE OF NEW YORK · COLLEGE OF ENGINEERING · No. 98375 · LICENSED PROFESSIONAL ENGINEER

DATE:	09/15/2017
PROJECT #:	150318
SCALE:	1/8" = 1'-0"

M-112.00

DWG NO.

OFOF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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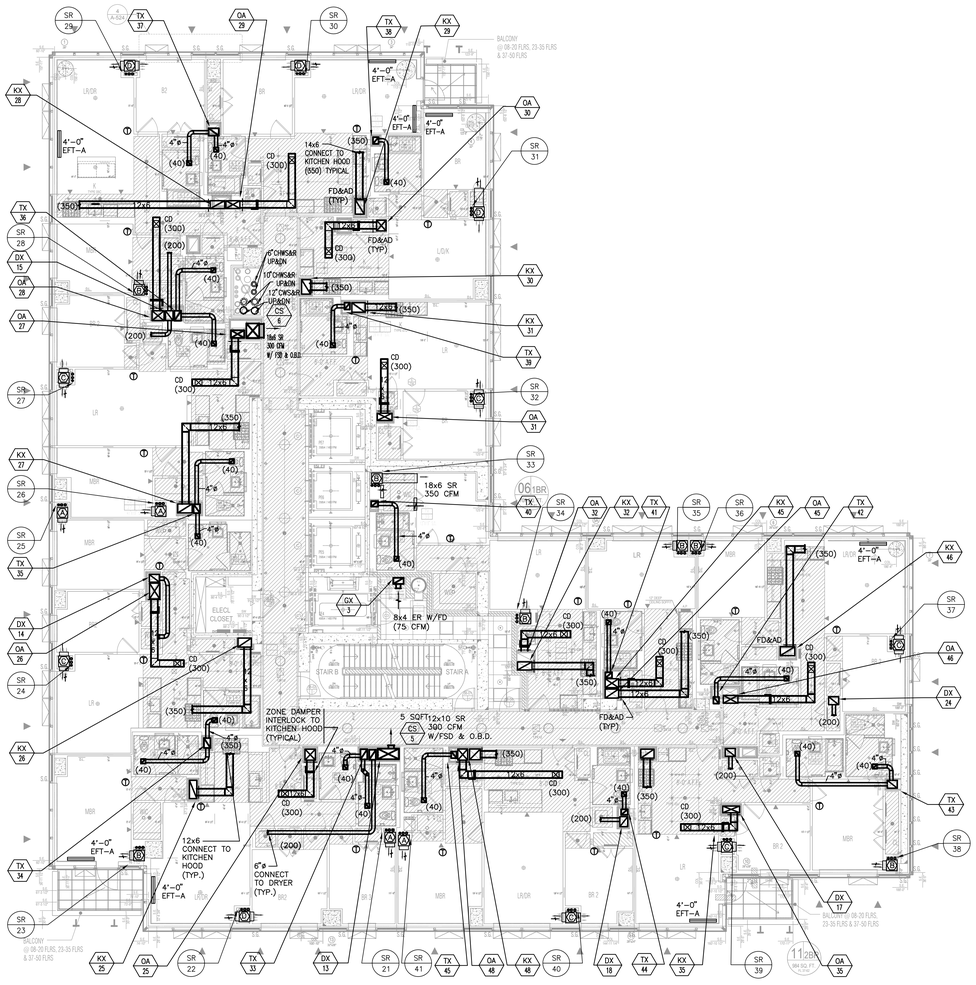
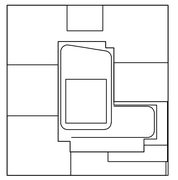


MECHANICAL 38TH-50TH FLOOR PLAN

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



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
140 Broadway 25th Floor
New York, NY, 10005
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Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
38TH-50TH FLOOR PLAN
MID LEVEL

SEAL & SIGNATURE:

STATE OF NEW YORK · JOHN DAVID GARRETT · No. 66378 · LICENSED PROFESSIONAL ENGINEER

DATE:	09/15/2017
PROJECT #:	150318
SCALE:	1/8" = 1'-0"

M-113.00

DWG NO.

OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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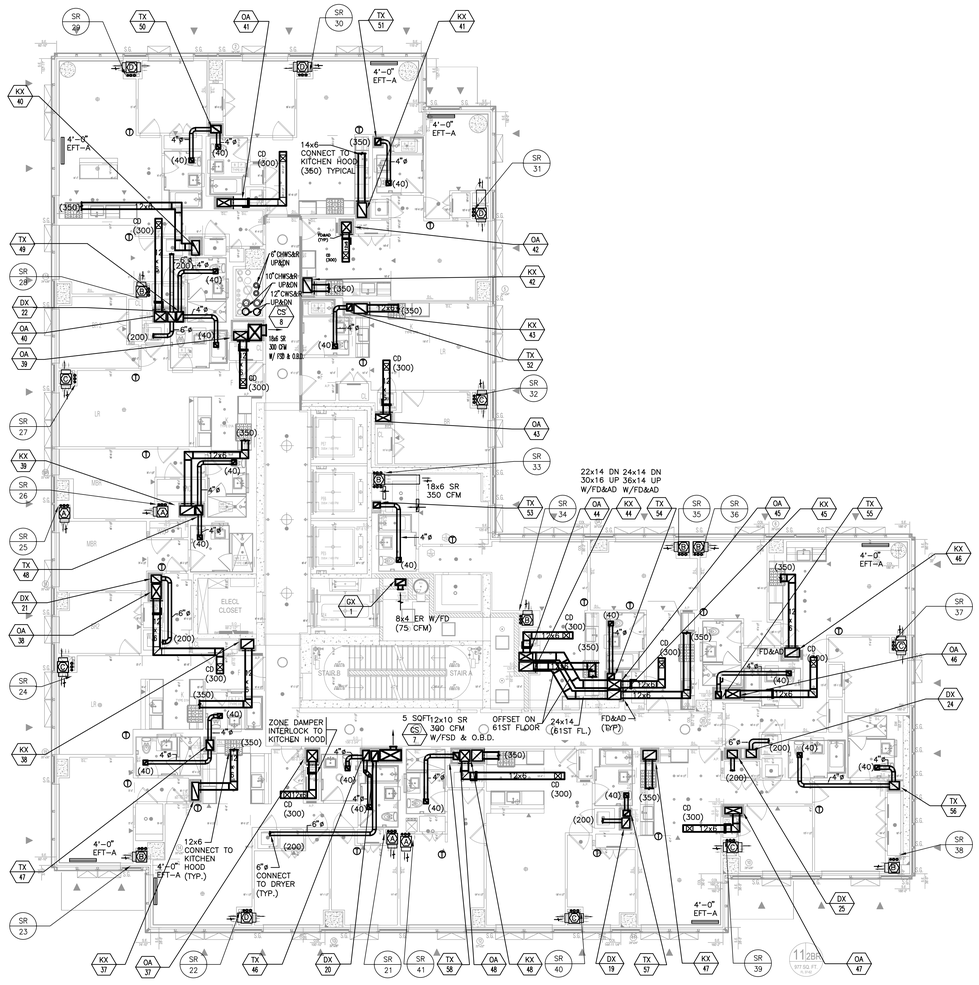
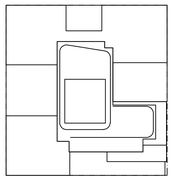


MECHANICAL 51ST-61ST FLOOR PLAN

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



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
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New York, NY 10121
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Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
51ST-61ST FLOOR PLAN

SEAL & SIGNATURE:

DATE:	09/15/2017
PROJECT #:	150318
SCALE:	1/8" = 1'-0"

M-114.00

DWG NO.

xOF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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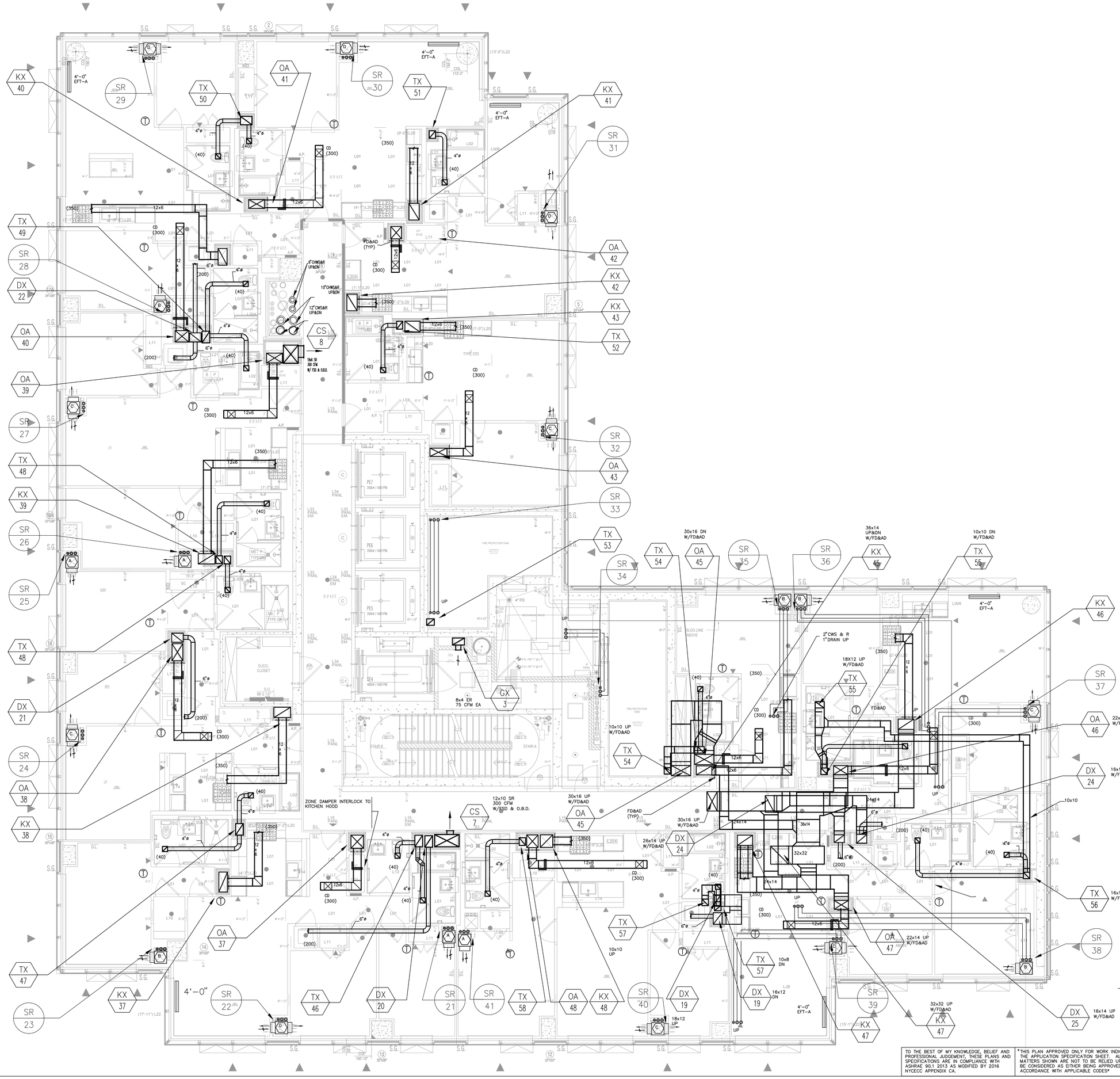
FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-114(51ST-61ST FL.).dwg SAVED ON 10/11/2017 5:01 PM PLOTTED ON 10/12/2017 2:56 PM PLOTTED BY VALITE, VAN



MECHANICAL 62ND FLOOR PLAN

SCALE:¼" = 1'-0"

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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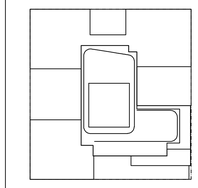

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

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	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DOB/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive

Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS

11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
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Consultant:

DESIMONE CONSULTING ENGINEERS
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New York, NY, 10005
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Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL

62ND FLOOR PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · JOANNA C. MAN · LICENSED PROFESSIONAL ENGINEER · No. 085975

DATE: 09/15/2017

PROJECT #: 150318

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

M-115.00

DWG NO.

xOF

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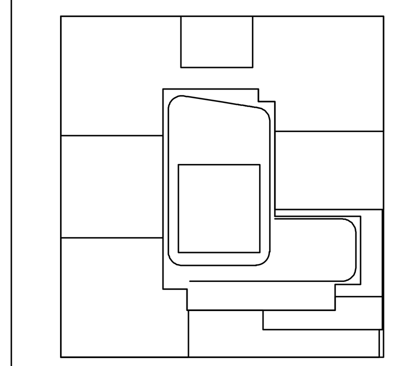
DEPT OF BLDGS 420655954 Job Number

ES827665714 Scan Code



KEY PLAN

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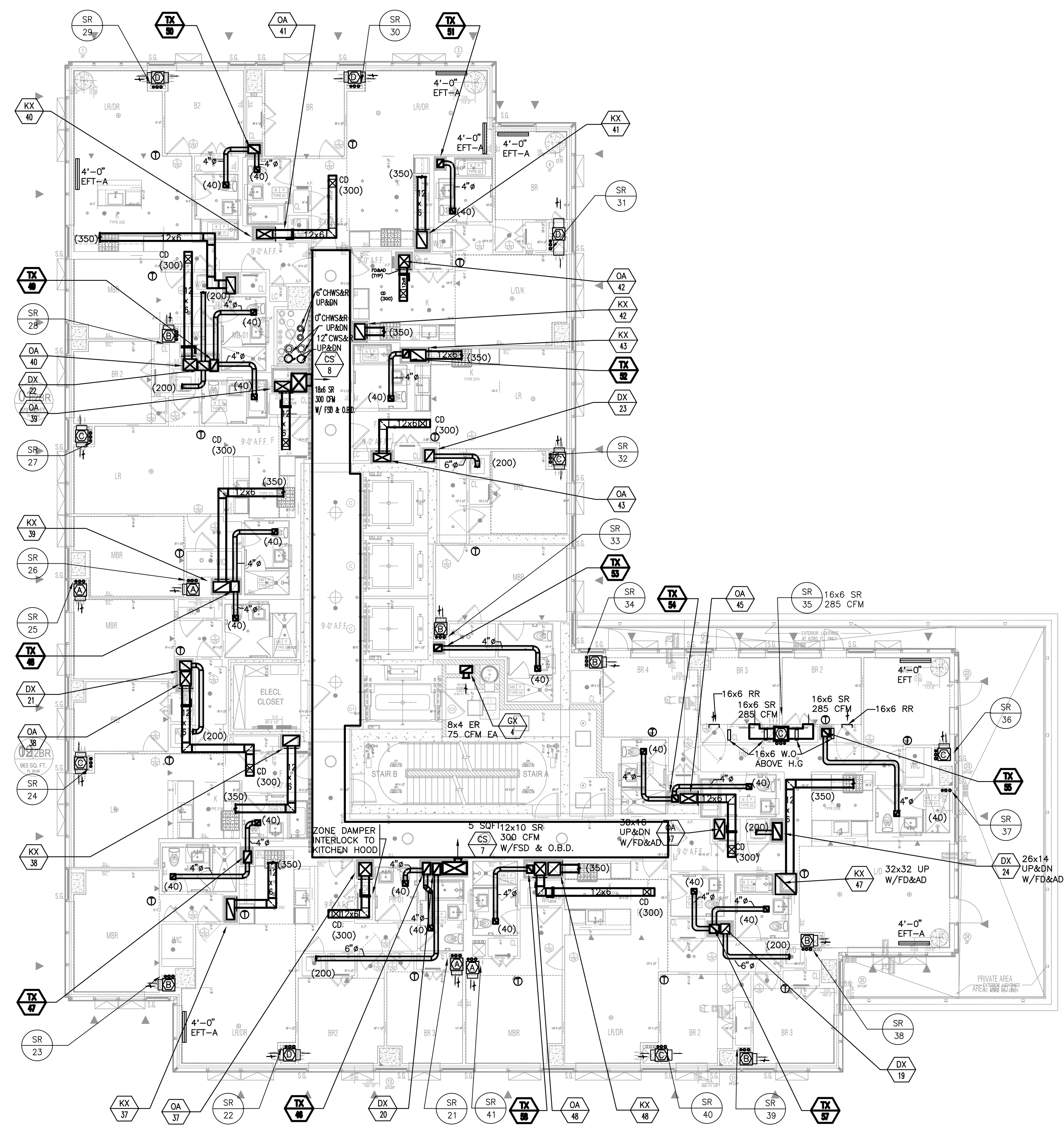

MECHANICAL 63RD-65TH FLOOR PLAN

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

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	09/25/2017	90% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
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T. 212 213 8007

Consultant:
DESIMONE CONSULTING ENGINEERS
140 Broadway 25th Floor
New York, NY, 10005
(212) 532-2211
Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

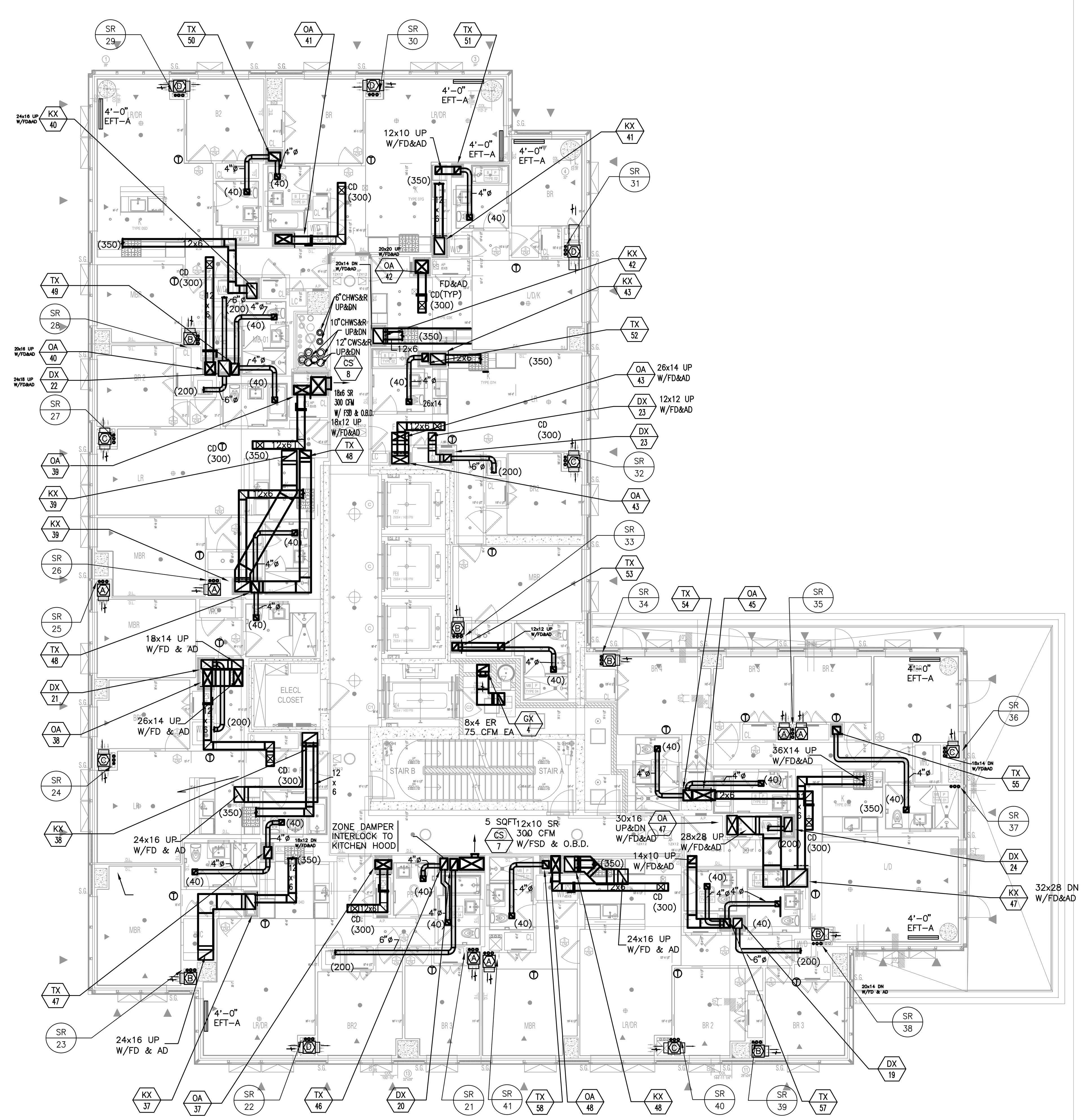
DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
63RD- 65TH FLOOR PLAN
HIGH LEVEL

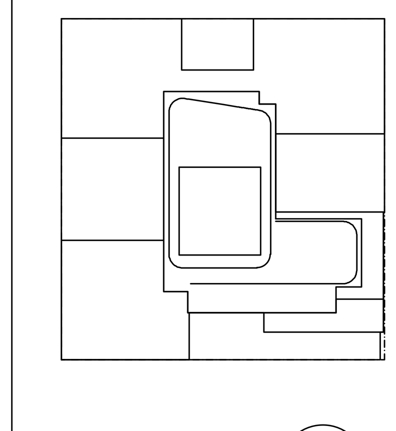
SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
M-116.00
DWG NO.
OFOF

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-116 (63RD-65TH FL. HIGH LEVEL).dwg SAVED ON 10/11/2017 6:02 PM PLOTTED ON 10/12/2017 2:58 PM PLOTTED BY VALITE, VAN



MECHANICAL 66TH FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
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17TH FLOOR
NEW YORK, NY 10004
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Consultant:
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(212) 532-2211
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New York, NY 10121
(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
66TH FLOOR PLAN
HIGH LEVEL

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
M-117.00
DWG NO.
OFOF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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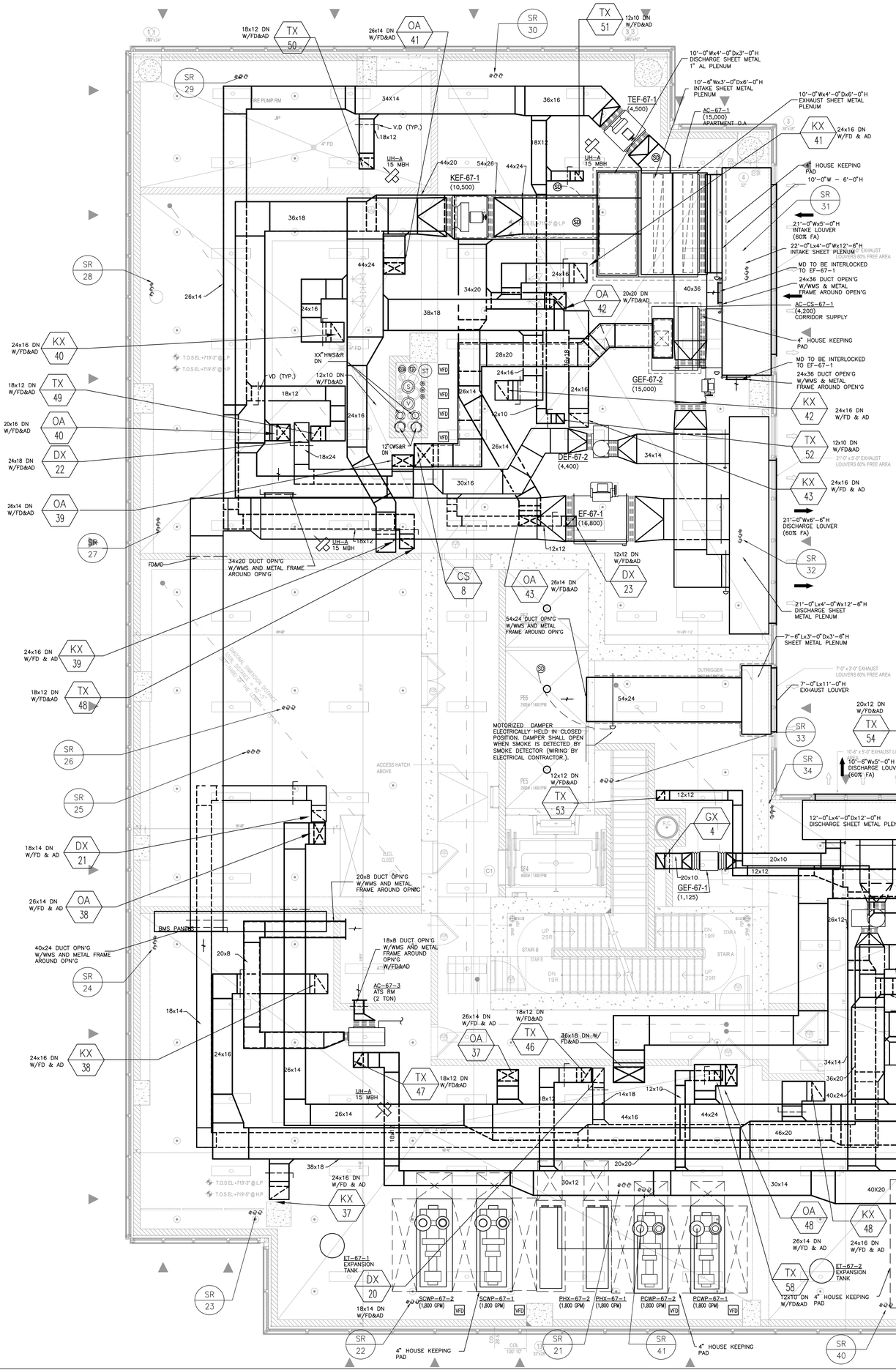
FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-117 (66TH FL. HIGH LEVEL).dwg SAVED ON 10/11/2017 6:02 PM PLOTTED ON 10/12/2017 2:58 PM PLOTTED BY VALITE, VAN

DEPT OF BUILDINGS 420005954 Job Number
B1629953803 Scan Code



MECHANICAL 67 FLOOR PLAN

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

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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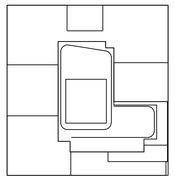

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
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	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
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(212) 532-2211

Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
67TH FLOOR PLAN (MER)

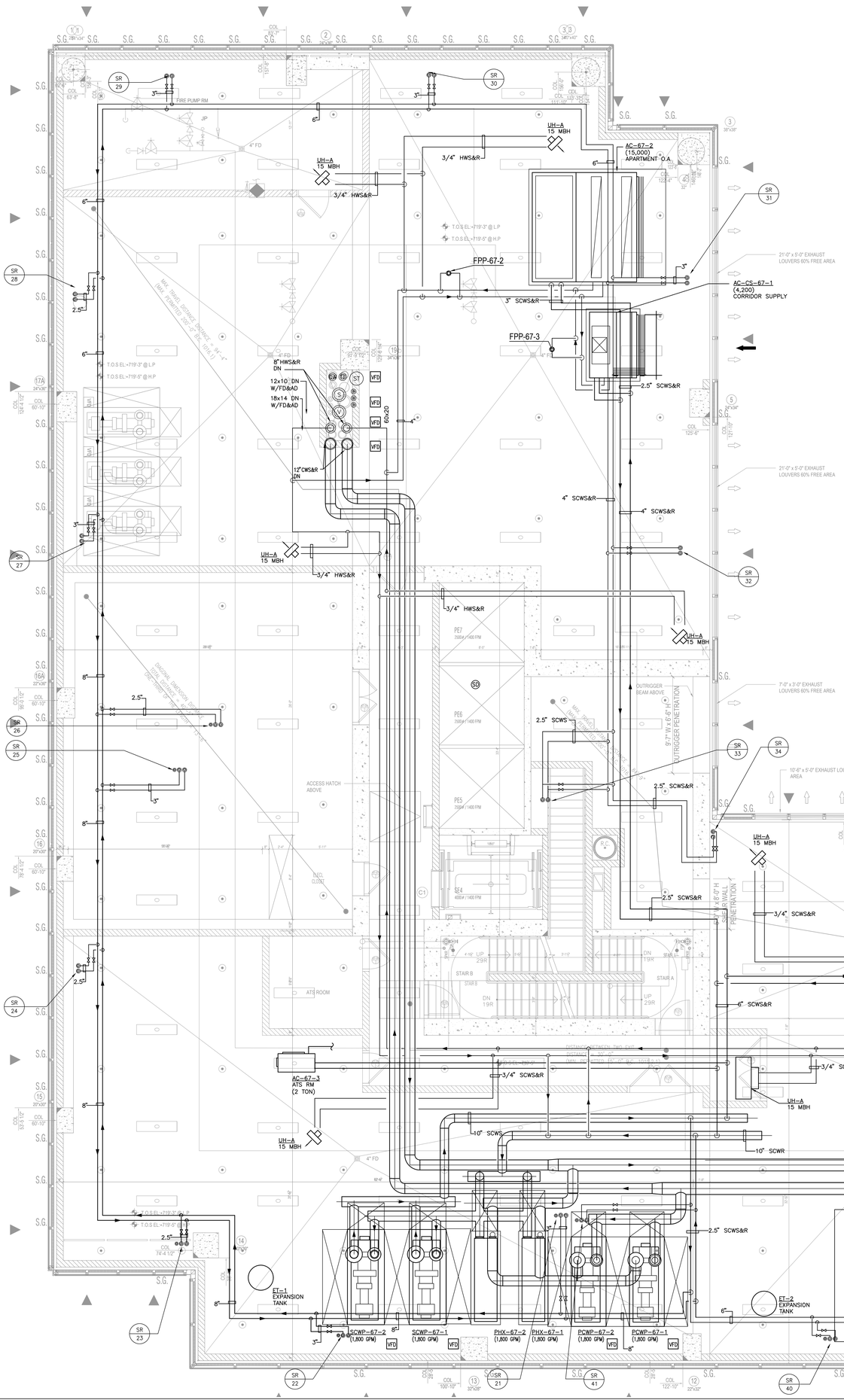
SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4"= 1'-0"
DWG NO. M-118.00

DRF

FILE NAME: I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-118(67TH FL_MER).dwg SAVED DN 10/10/2017 6:13 PM PLOTTED DN 10/12/2017 2:59 PM PLOTTED BY VALITE, VAN

DEPT OF BUILDINGS 420005954 Job Number
E3480554933 Scan Code



MECHANICAL 67 FLOOR PLAN

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

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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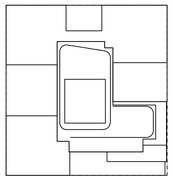

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	65% CD SET
	03/24/2017	30% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DOFOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

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CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
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Consultant:

DESIMONE CONSULTING ENGINEERS
140 Broadway 25th Floor
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Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
67TH FLOOR PLAN (MER)

SEAL & SIGNATURE:

STATE OF NEW YORK · COUNTY OF QUEENS · LICENSED PROFESSIONAL ENGINEER · LIC. NO. 086703

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4" = 1'-0"
DWG NO. M-118P.00

ORDF

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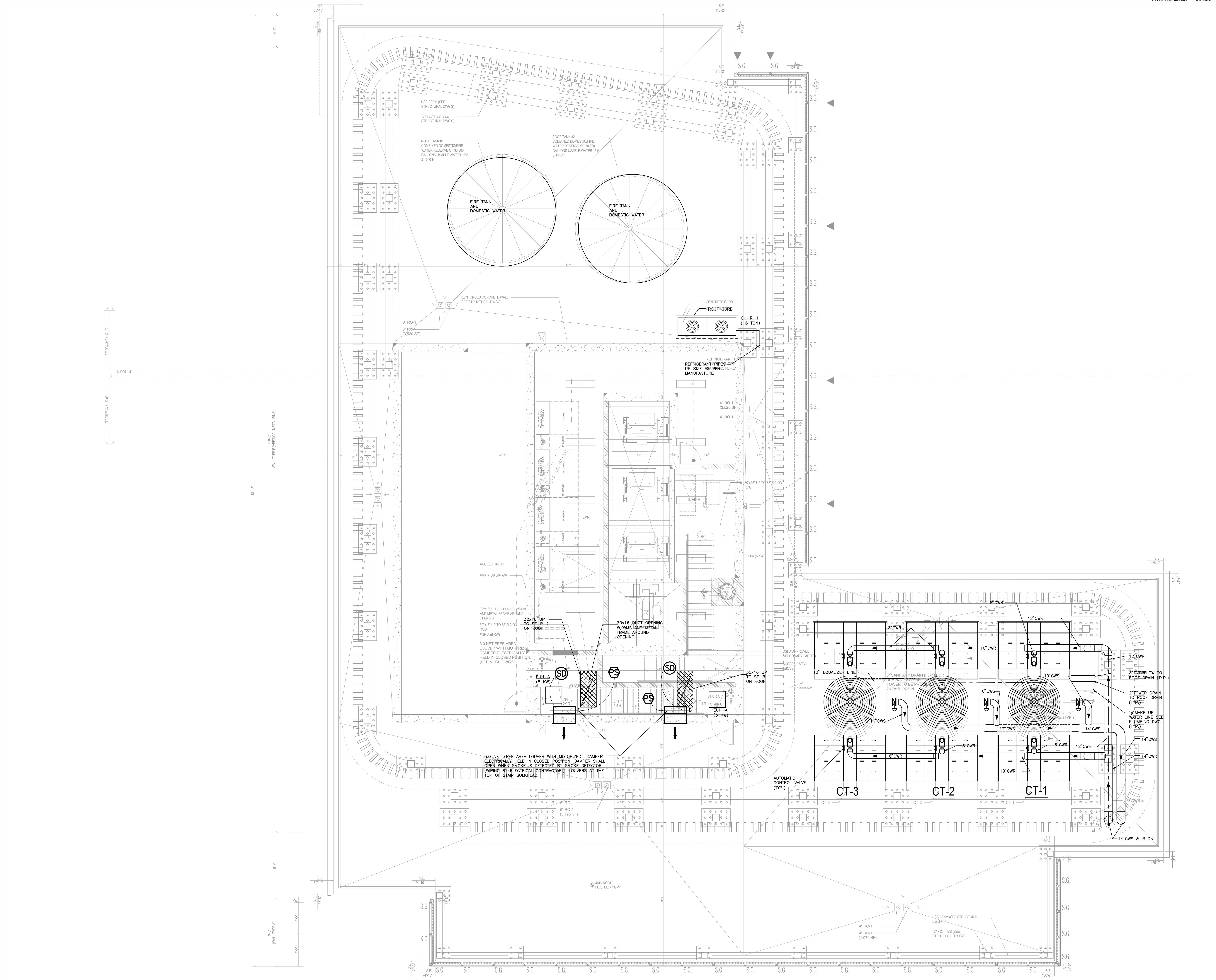

MECHANICAL MAIN ROOF PLAN

SCALE 1/4" = 1'-0"

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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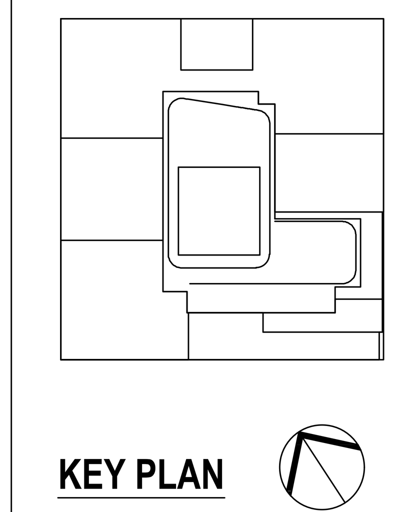

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
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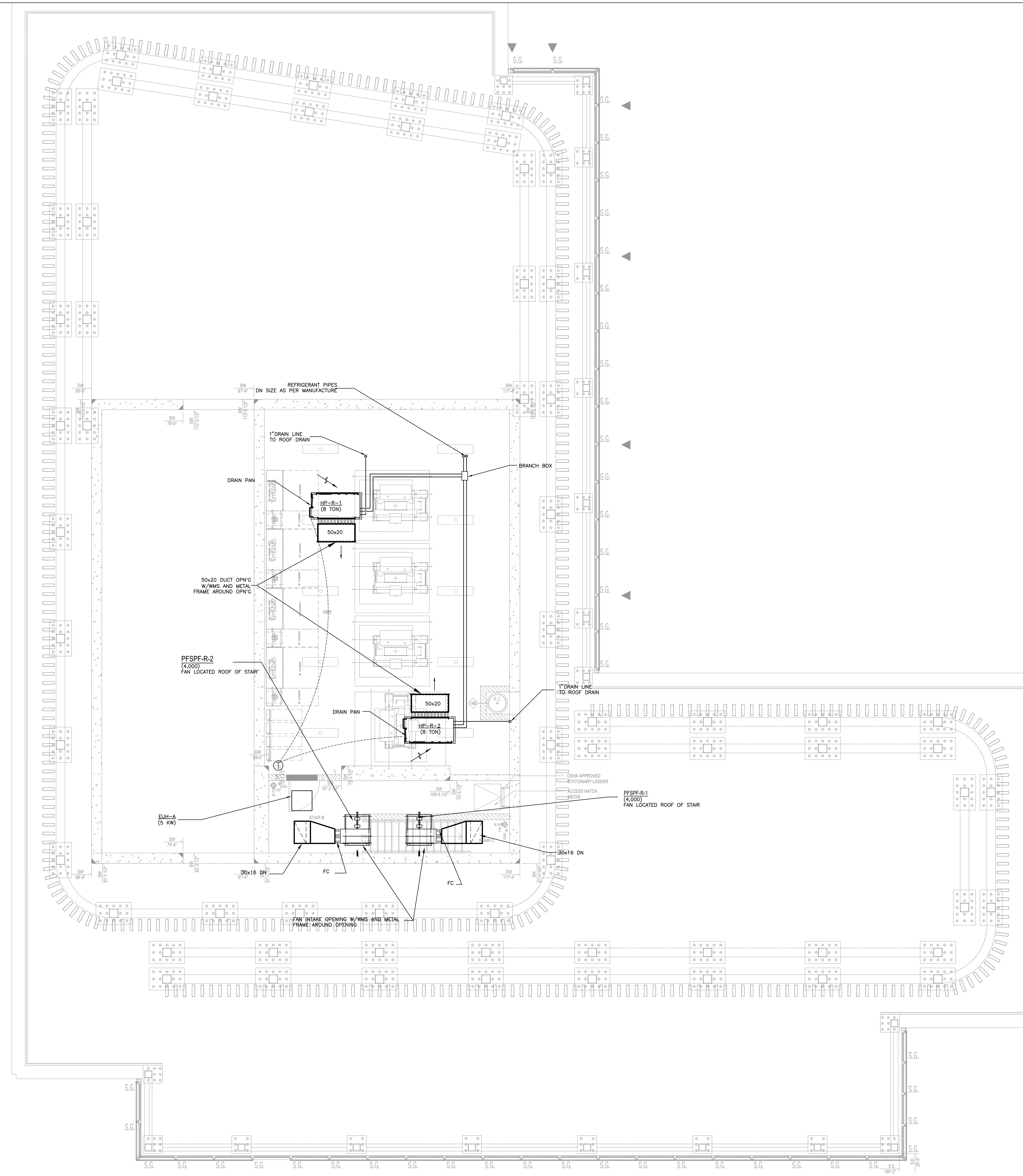
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
MAIN ROOF PLAN (MER)

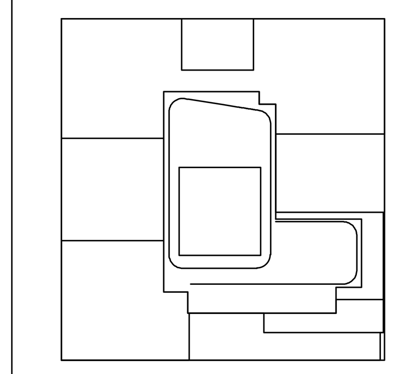
SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4"= 1'-0"
M-119.00
DWG NO.
0F0F



MECHANICAL HIGH LEVEL PLAN

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



KEY PLAN

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NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
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	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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Consultant:

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New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
ELEVATOR MER PLAN
HIGH LEVEL

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/4"= 1'-0"
M-120.00
DWG NO.

OFOF

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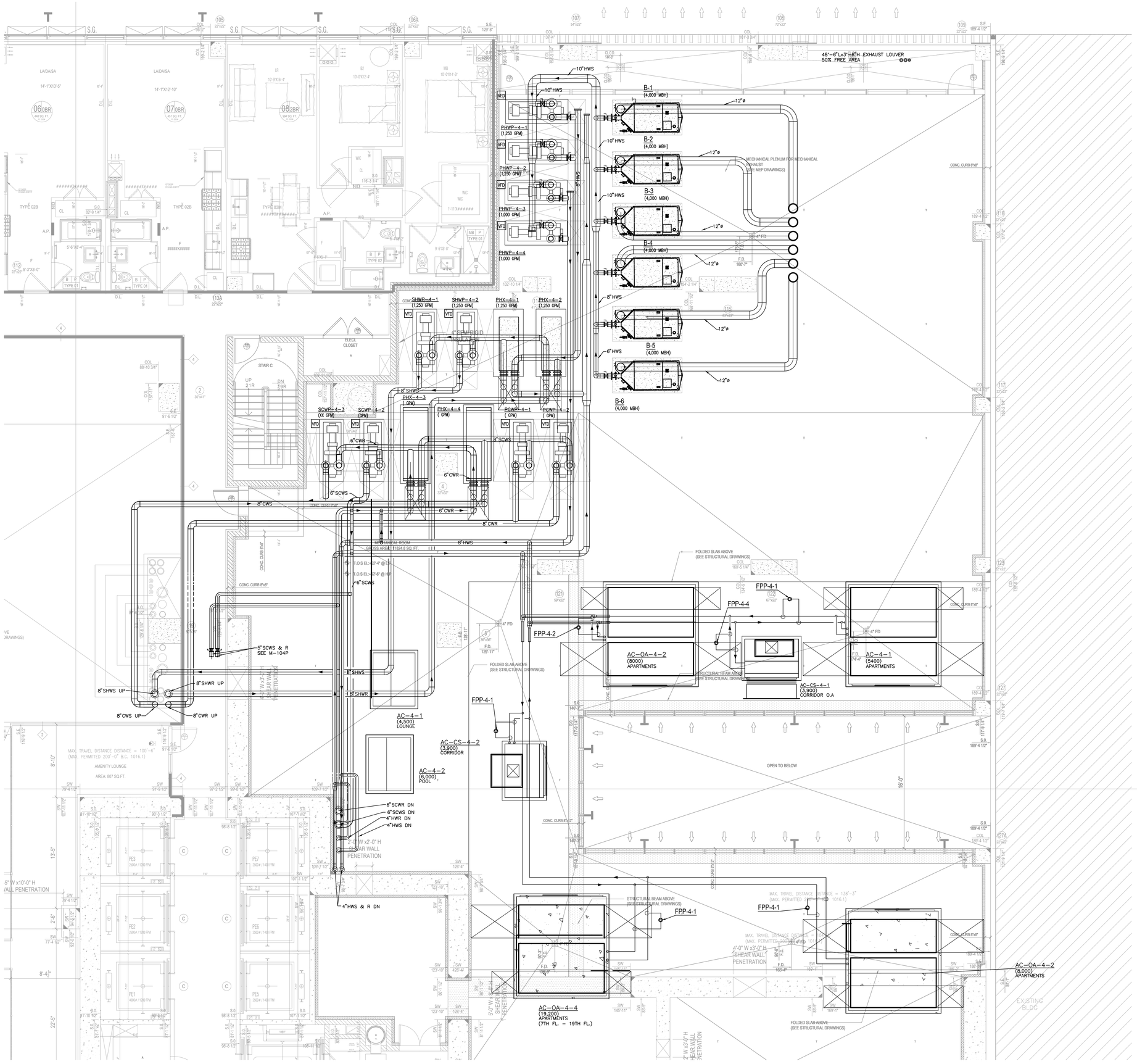
DEPT OF BUILDINGS 420005904 Job Number
E350543333X Scan Code



MECHANICAL 4TH FLOOR PLAN
SCALE: 1/4" = 1'-0"

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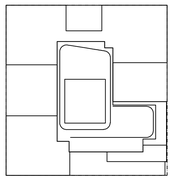

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

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09/15/2017	90% CD SET
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01/27/2017	SUPERSTRUCTURE SET
01/25/2017	ISSUED FOR DOB
11/17/2016	FACADE PRICING SET
11/11/2016	100% DD/FOUNDATION BID SET
10/12/2016	ISSUED FOR DOB
02/05/2016	DOB FILING SET

Number: Date: Revision:

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
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Architect:
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11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE: MECHANICAL
4TH FLOOR MECH ROOM
PART PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: AS SHOWN
DWG NO: M-200.00
XF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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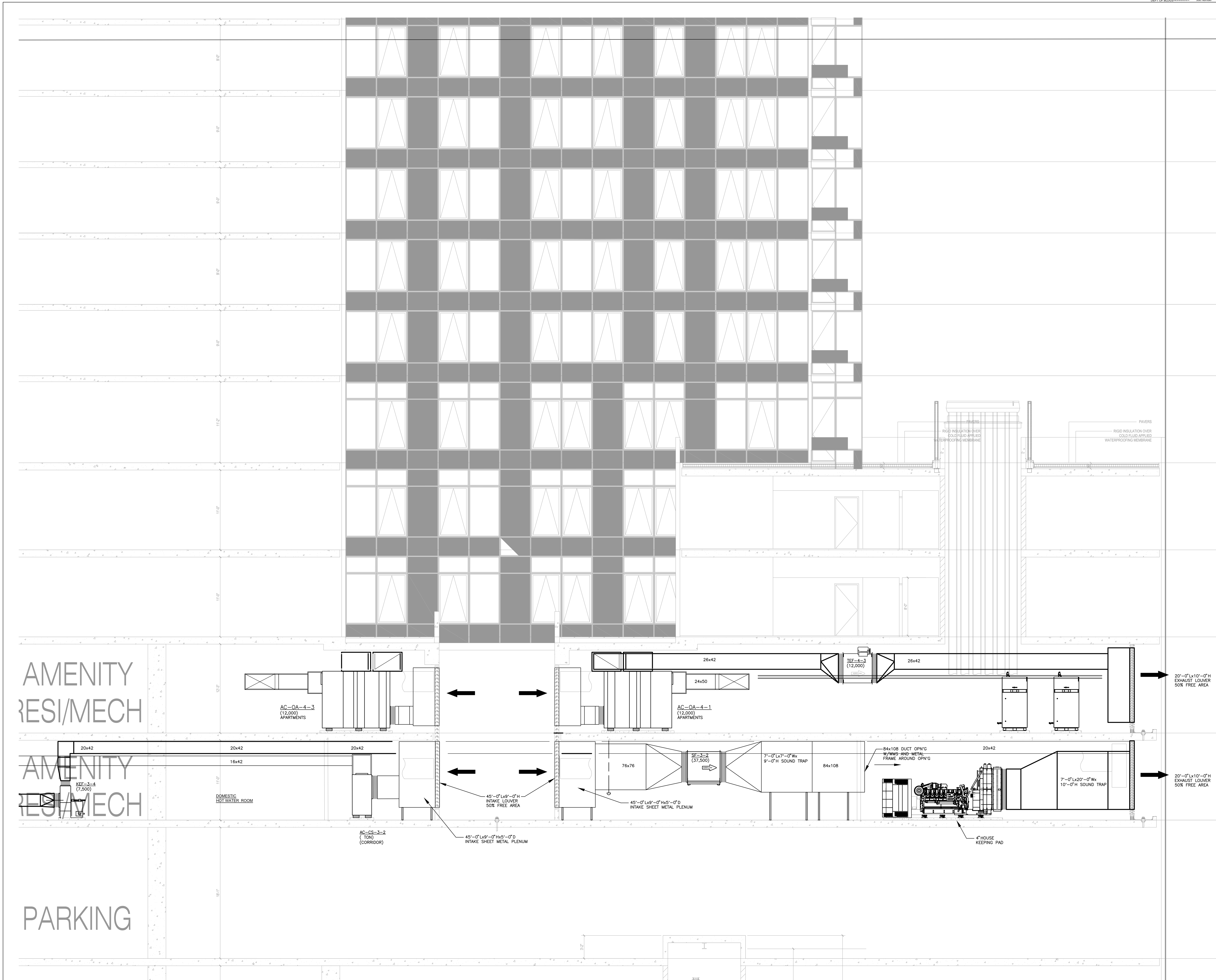

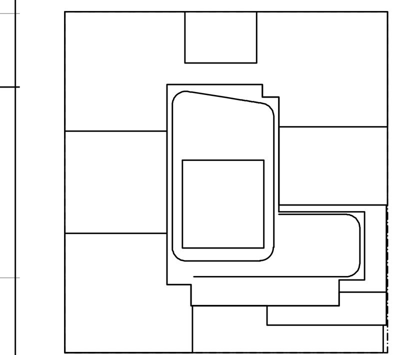

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
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	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
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11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
4TH FLOOR SECTION

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE

M-201.00
DWG NO.

OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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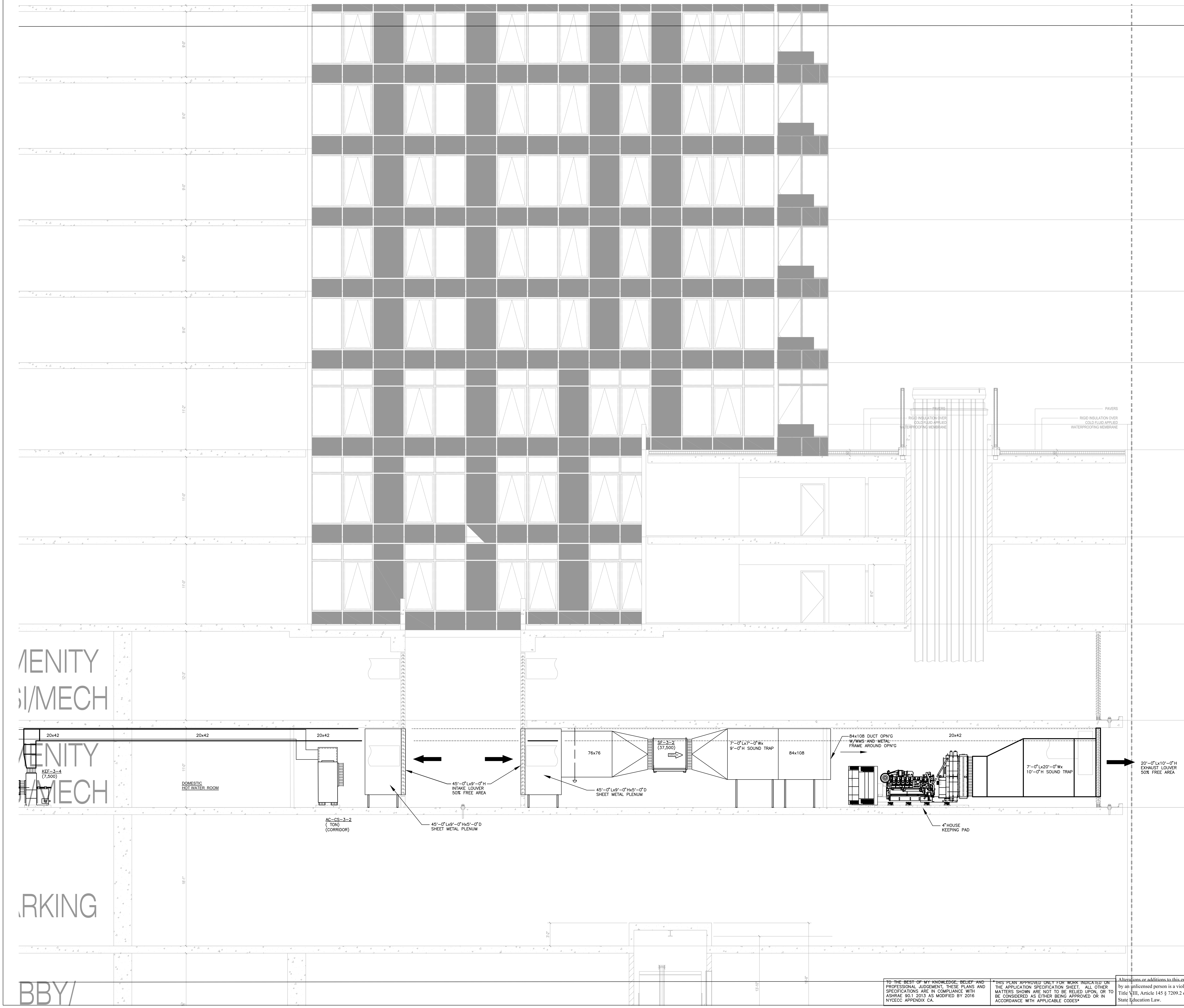

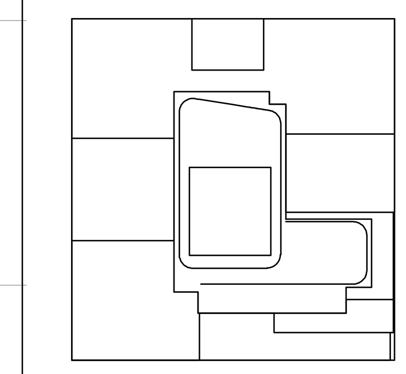

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	08/23/2017	90% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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(212) 615-3600

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11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
36TH FLOOR SECTION

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-202.00
DWG NO.
OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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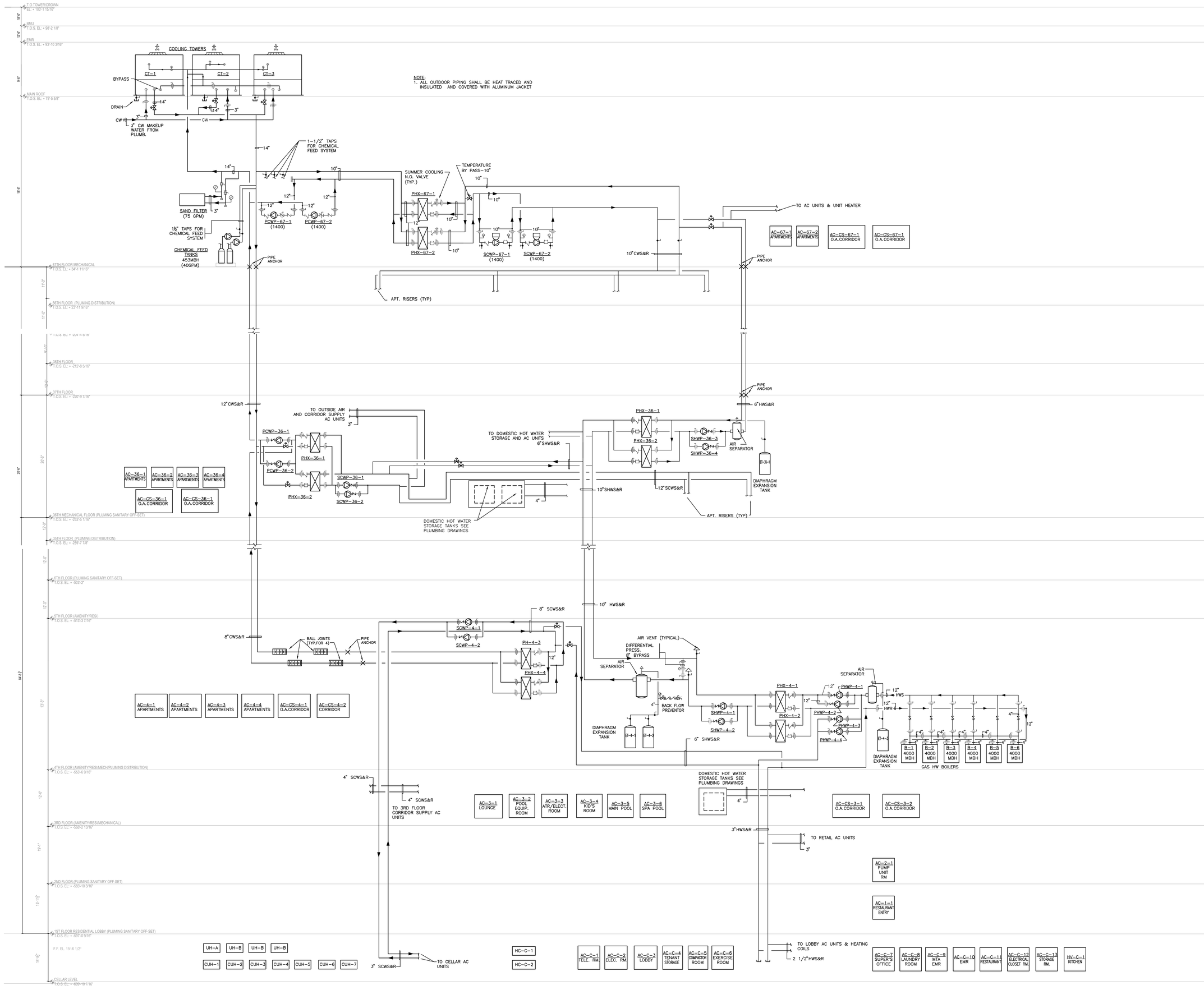

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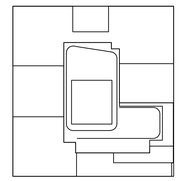

NOTES:

NOT FOR CONSTRUCTION

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09/15/2017	90% CD SET
06/02/2017	85% CD SET
03/24/2017	50% CD SUBMISSION SET
01/27/2017	SUPERSTRUCTURE SET
01/25/2017	ISSUED FOR DOB
11/17/2016	FACADE PRICING SET
11/11/2016	100% DD FOUNDATION BD SET
10/12/2016	ISSUED FOR DOB
02/05/2016	DOB FILING SET

Number: | Date: | Revision:

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
WATER FLOW DIAGRAM

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
DWG NO. M-300.00

OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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DEPT OF BLDGS 420555954 Job Number
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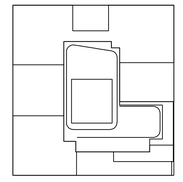
FOR CONTINUATIONS SEE M-302

KEY PLAN



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NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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8	11/11/2016	100% DD/FOUNDATION BD SET
9	10/12/2016	ISSUED FOR DOB
10	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:

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New York, NY 10121
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DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
WATER RISER DIAGRAM 2

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1503B18
SCALE: NONE
DWG NO. M-301.00
SHT

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DEPT OF BLDGS 420555954 Job Number
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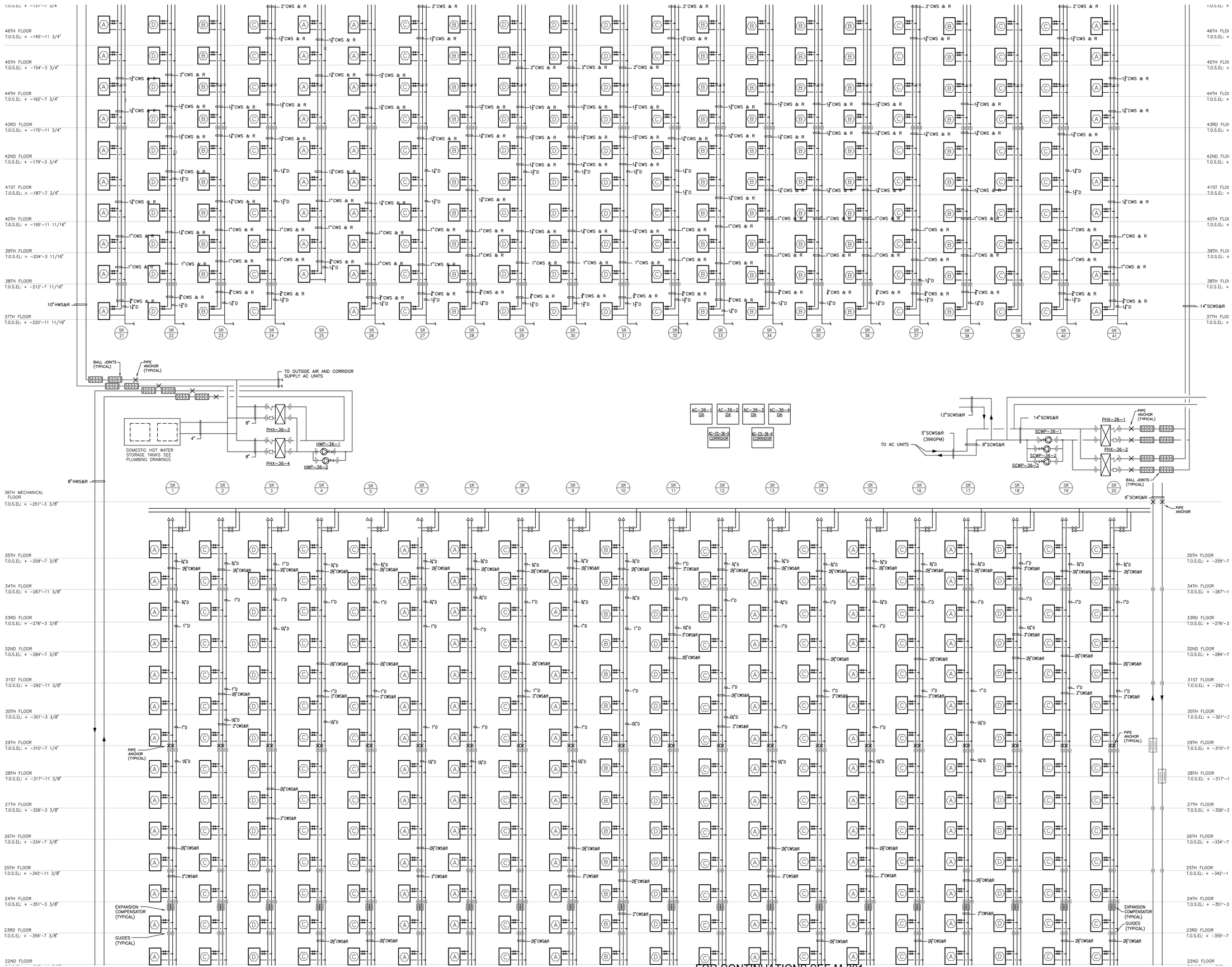
FOR CONTINUATIONS SEE M-303



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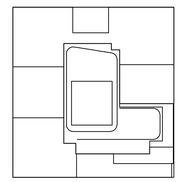

KEY PLAN

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NOT FOR CONSTRUCTION

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06/02/2017	65% CD SET
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01/27/2017	SUPERSTRUCTURE SET
01/25/2017	ISSUED FOR DOB
11/17/2016	FACADE PRICING SET
11/11/2016	100% DD FOUNDATION BID SET
10/12/2016	ISSUED FOR DOB
02/05/2016	DOB FILING SET

Number: Date: Revision:

Project:

City View Tower at Court Square

23-15 44th Drive
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Client:

Cityview Tower LLC

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Architect:

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Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
WATER RISER DIAGRAM 3

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1506818
SCALE: NONE
M-302.00
DWG NO.
ORJF

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FILE NAME I:\1503181_Outgoing\2017-10-12 update DOB set\mechanical\1503181M-302 Water Riser Diagram #2.dwg SAVED ON 9/19/2017 1:18 PM PLOTTED BY VALITE, VAN
10/12/2017 3:03 PM PLOTTED BY VALITE, VAN

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DEPT OF BLDGS 420555954 Job Number
E3899756535 Scan Code

MAIN ROOF/TMD
T.O.S.EL: + 79'-5 5/8"

AC-67-1 OA	AC-67-2 OA	AC-CS-67-3 CORRIDOR	AC-CS-67-4 CORRIDOR

4" SCWS&R TO AC UNITS

SR 21 | SR 22 | SR 23 | SR 24 | SR 25 | SR 26 | SR 27 | SR 28 | SR 29 | SR 30 | SR 31 | SR 32 | SR 33 | SR 34 | SR 35 | SR 36 | SR 37 | SR 38 | SR 39 | SR 40 | SR 41

67TH FLOOR MECHANICAL
T.O.S.EL: + 34'-1 11/16"

66TH FLOOR
T.O.S.EL: + 23'-11 11/16"

65TH FLOOR
T.O.S.EL: + 14'-7 13/16"

64TH FLOOR
T.O.S.EL: + 5'-3 15/16"

63RD FLOOR
T.O.S.EL: + -3'-11 15/16"

62ND FLOOR
T.O.S.EL: + -13'-3 13/16"

61ST FLOOR RES/MECH
T.O.S.EL: + -20'-11 3/4"

60TH FLOOR
T.O.S.EL: + -29'-3 3/4"

59TH FLOOR
T.O.S.EL: + -37'-7 3/4"

58TH FLOOR
T.O.S. EL: + -45'-11 3/4"

57TH FLOOR
T.O.S.EL: + -54'-3 3/4"

56TH FLOOR
T.O.S.EL: + -62'-7 3/4"

55TH FLOOR
T.O.S.EL: + -70'-11 3/4"

54TH FLOOR
T.O.S.EL: + -79'-3 3/4"

53RD FLOOR
T.O.S.EL: + -87'-7 3/4"

52ND FLOOR
T.O.S.EL: + -95'-11 3/4"

51ST FLOOR
T.O.S.EL: + -104'-3 3/4"

50TH FLOOR
T.O.S.EL: + -112'-7 3/4"

49TH FLOOR
T.O.S.EL: + -120'-11 3/4"

48TH FLOOR
T.O.S.EL: + -129'-3 3/4"

47TH FLOOR
T.O.S.EL: + -137'-7 3/4"

46TH FLOOR
T.O.S.EL: + -145'-11 3/4"

45TH FLOOR
T.O.S.EL: + -154'-3 3/4"

44TH FLOOR
T.O.S.EL: + -162'-7 3/4"

43RD FLOOR
T.O.S.EL: + -170'-11 3/4"

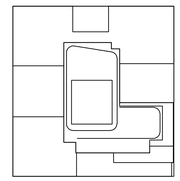
4" SCWS & R

DOMESTIC HOT WATER STORAGE TANKS SEE PLUMBING DRAWINGS

16" SCWS&R

FOR CONTINUATIONS SEE M-302

FOR CONTINUATIONS SEE M-302



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

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06/02/2017	85% CD SET	
03/24/2017	50% CD SUBMISSION SET	
01/27/2017	SUPERSTRUCTURE SET	
01/25/2017	ISSUED FOR DOB	
11/17/2016	FACADE PRICING SET	
11/11/2016	100% DD/FOUNDATION BID SET	
10/12/2016	ISSUED FOR DOB	
03/25/2016	DOB FILING SET	

Number: Date: Revision:

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
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NEW YORK, NY 10004
T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
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New York, NY, 10005
(212) 532-2211

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Two Pennsylvania Plaza, 3rd FL.
New York, NY 10121
(212) 615-3600

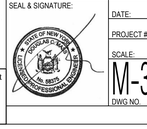
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
WATER RISER DIAGRAM 3

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 1503818
SCALE: NONE
M-303.00
DWG NO.
QBF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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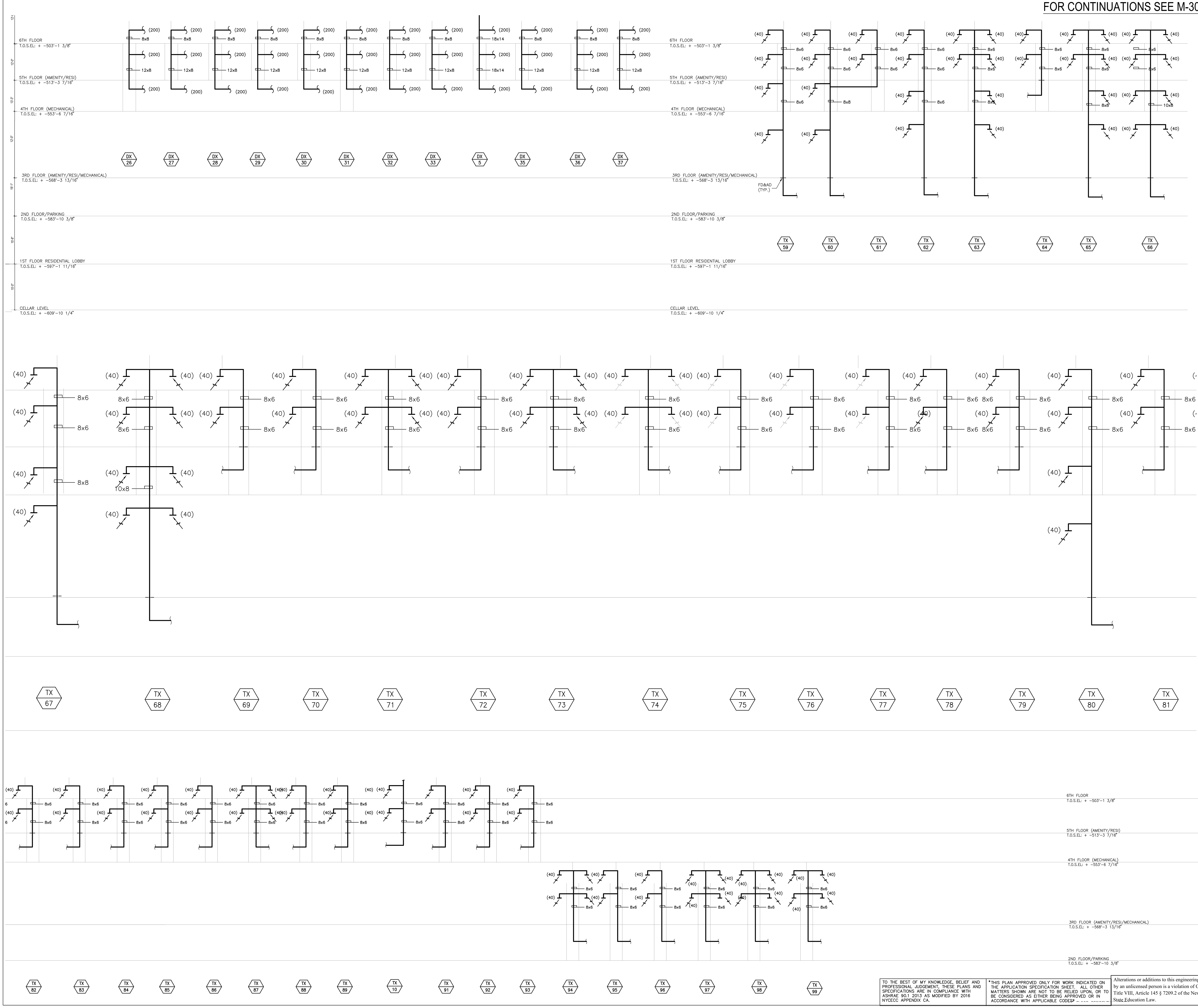
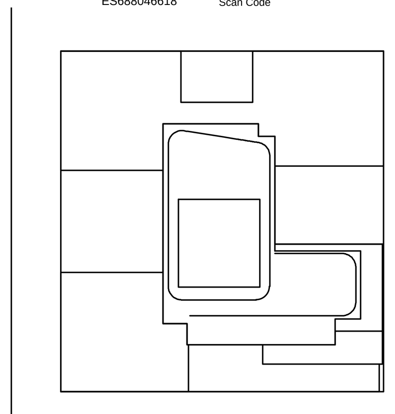
FOR CONTINUATIONS SEE M-305



KEY PLAN



NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
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T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
140 Broadway 25th Floor
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Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
TOILET AND DRYER EXHAUST
RISER DIAGRAM #1

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE

M-304.00
DWG NO.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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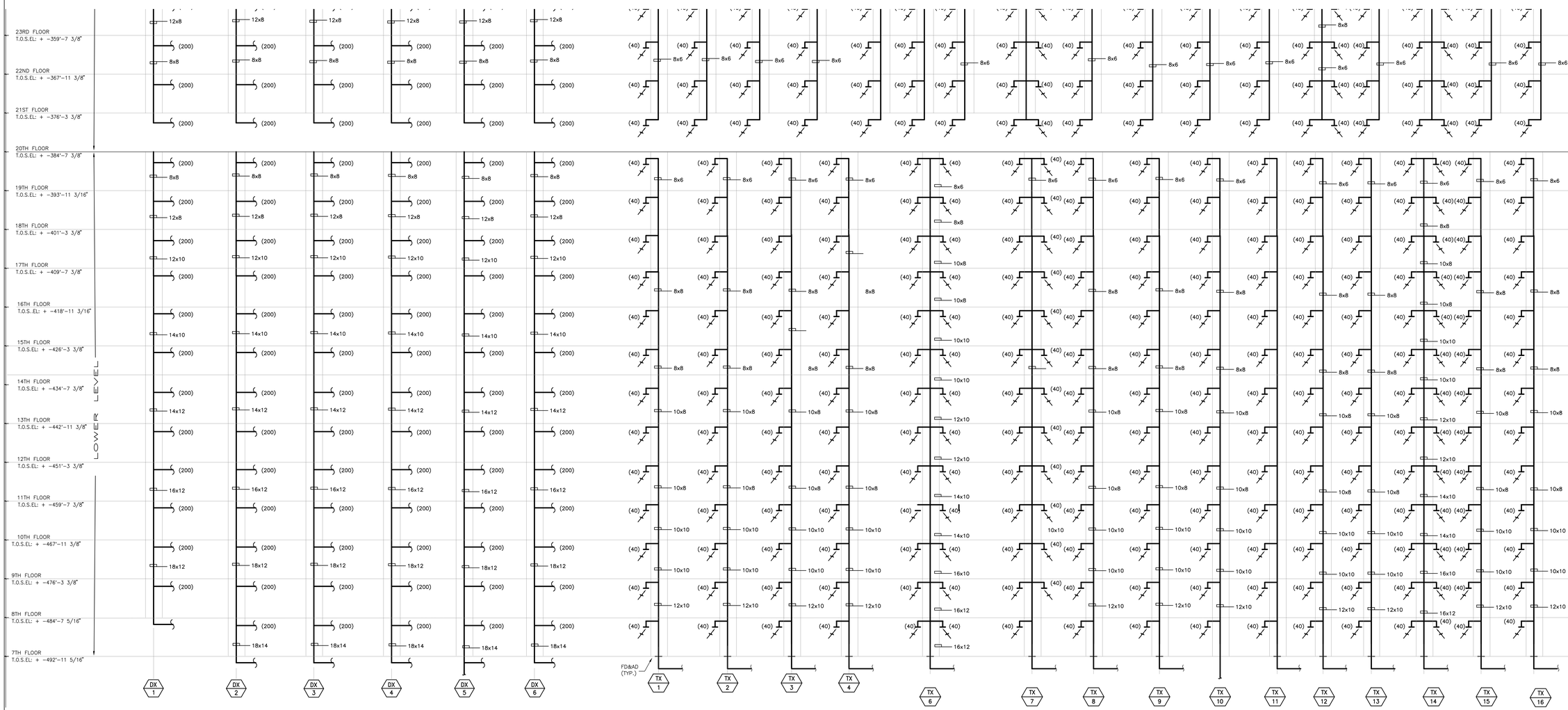
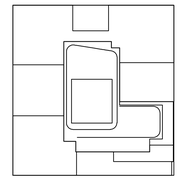
FOR CONTINUATIONS SEE M-306



FOR CONTINUATIONS SEE M-304



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	65% CD SET
	03/14/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS

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Consultant:

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New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
TOILET AND DRYER EXHAUST
RISER DIAGRAM #2

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE

M-305.00
DWG NO.

ORF

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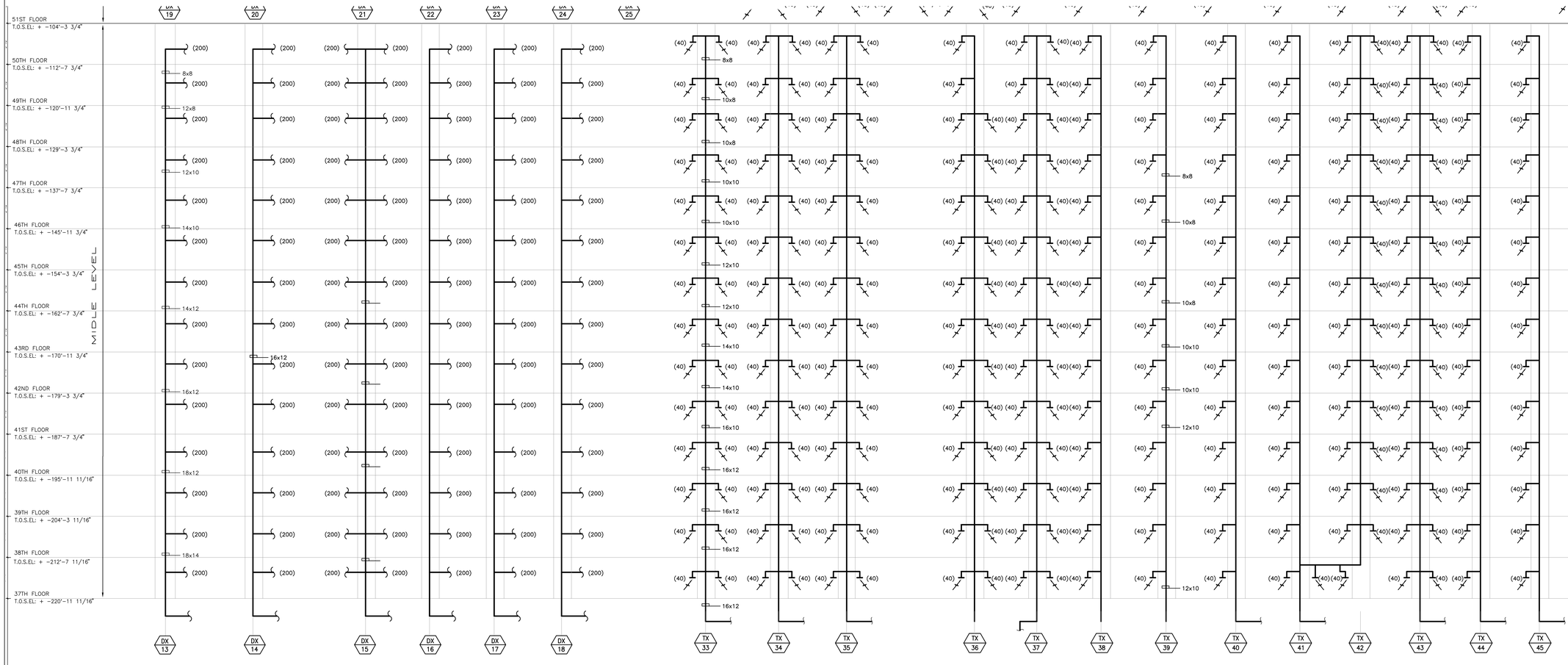
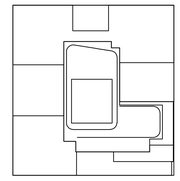
FOR CONTINUATIONS SEE M-307



FOR CONTINUATIONS SEE M-305



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

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	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
TOILET AND DRYER EXHAUST
RISER DIAGRAM #3

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE

M-306.00
DWG NO.
OF

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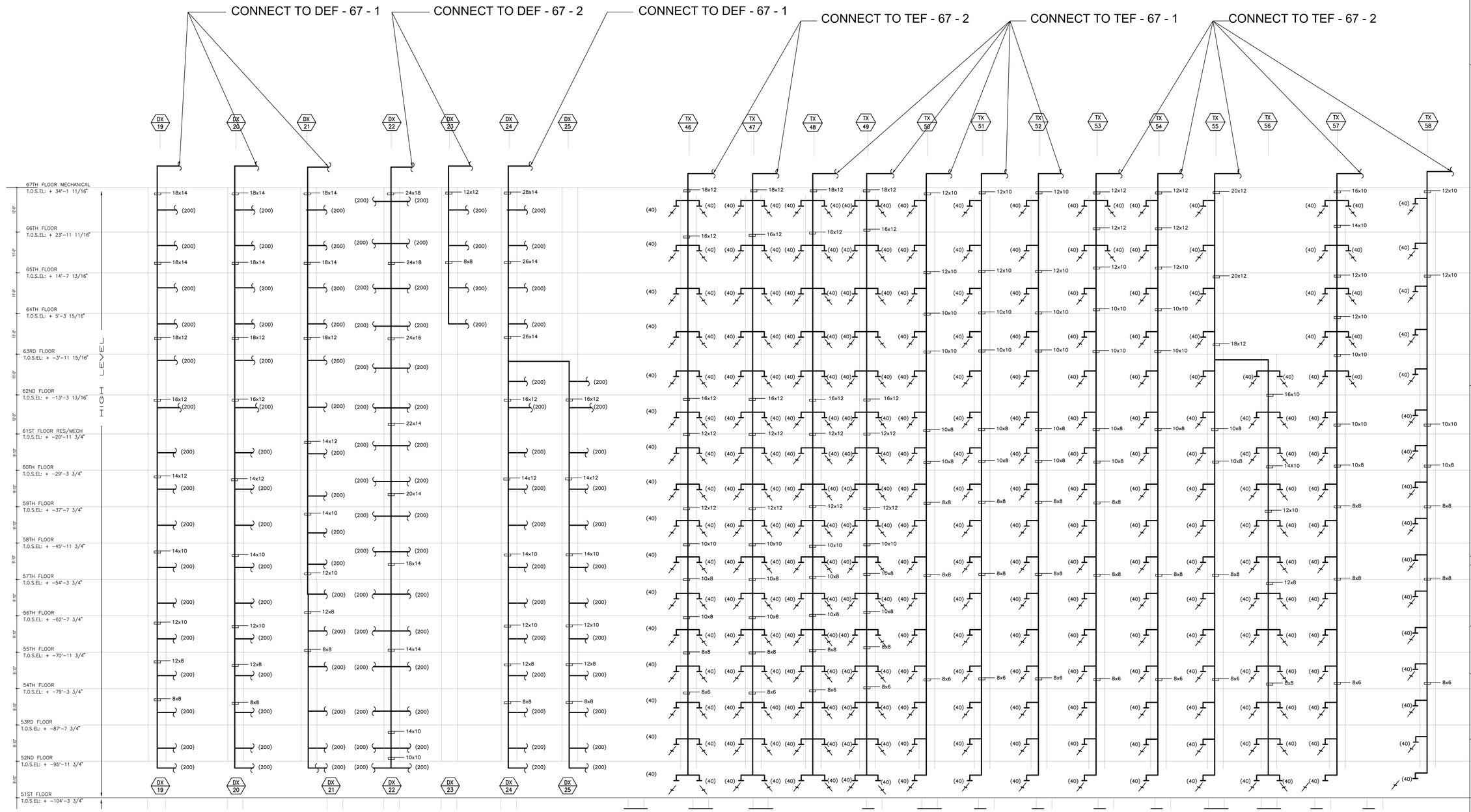
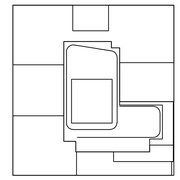
FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-306 Toilet&Dryer Exhausr Diagram3.dwg SAVED ON 10/11/2017 1:53 PM PLOTTED ON 10/12/2017 3:04 PM PLOTTED BY VALITE, VAN

FOR CONTINUATIONS SEE M-308



FOR CONTINUATIONS SEE M-306



KEY PLAN

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NOT	FOR	CONSTRUCTION
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	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET
Number:	Date:	Revision:

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:

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Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
TOILET & DRYER EXHAUST
RISER DIAGRAM #4

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE

M-307.00
DWG NO.
OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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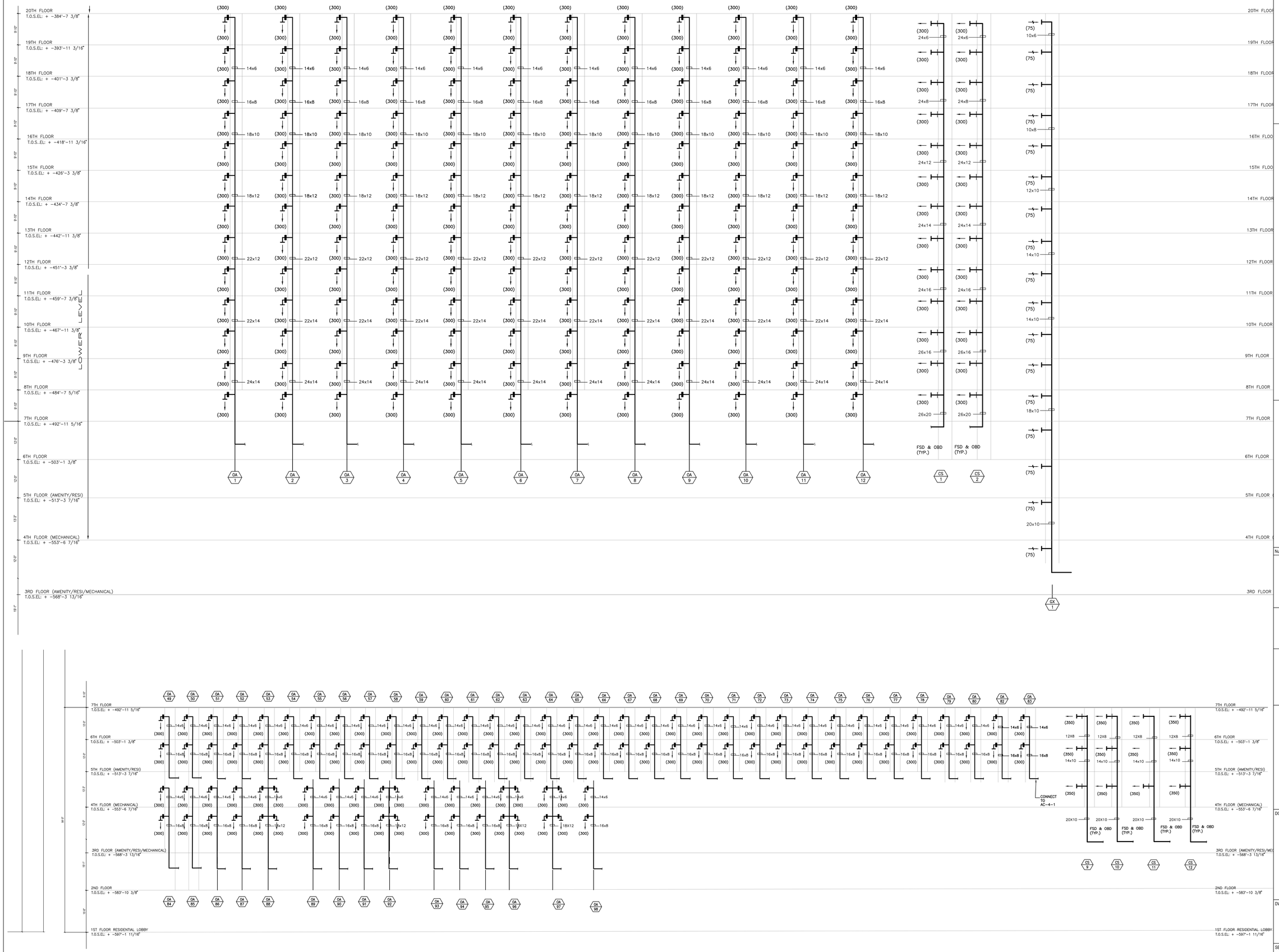
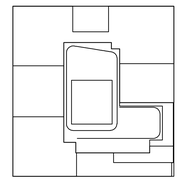
FOR CONTINUATIONS SEE M-309





KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
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	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
AIR RISER DIAGRAM #1

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. KOPP · No. 68375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 1:0150318
SCALE: NONE
DWG NO. M-308.00
OF/F

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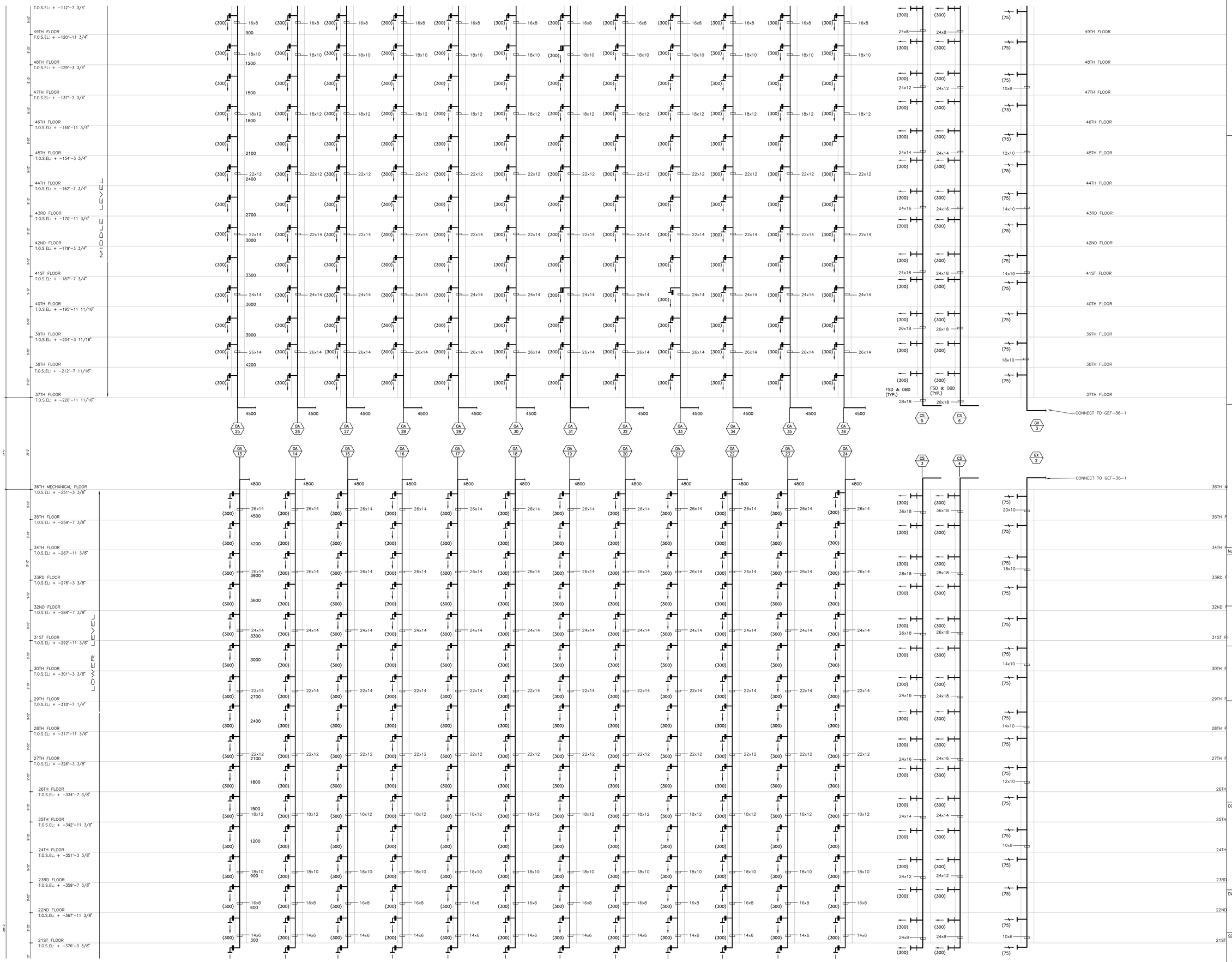
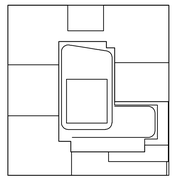
FOR CONTINUATIONS SEE M-310



FOR CONTINUATIONS SEE M-308



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
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	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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Architect:

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(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
AIR RISER DIAGRAM #2

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1506018
SCALE: NONE
DWG NO. M-309.00

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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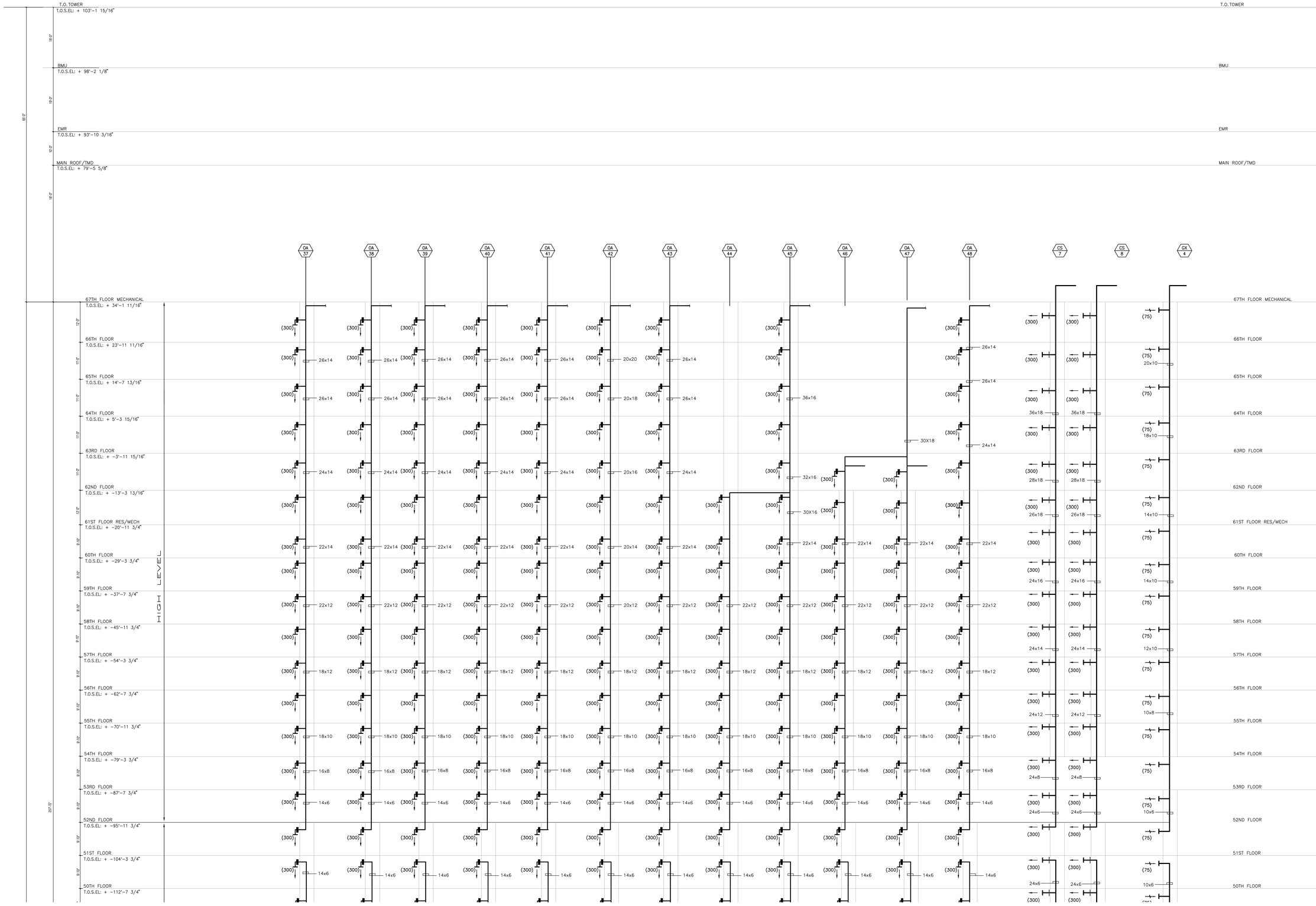
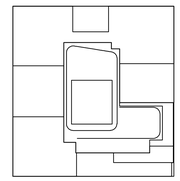


FOR CONTINUATIONS SEE M-311



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
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Architect:

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DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
AIR RISER DIAGRAM #3

SEAL & SIGNATURE:

STATE OF NEW YORK · DONALD A. CAMPBELL · 36, 68375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 1950318
SCALE: NONE

M-310.00
DWG NO.
OIDF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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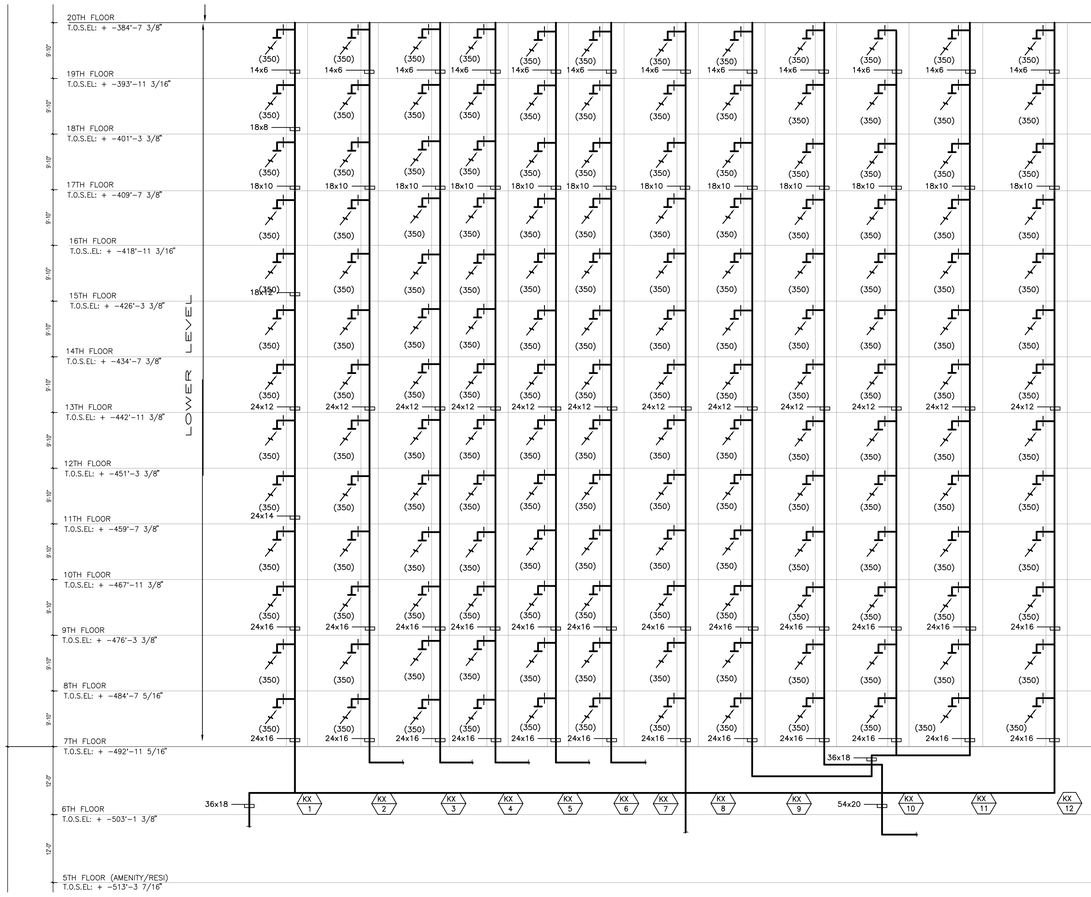

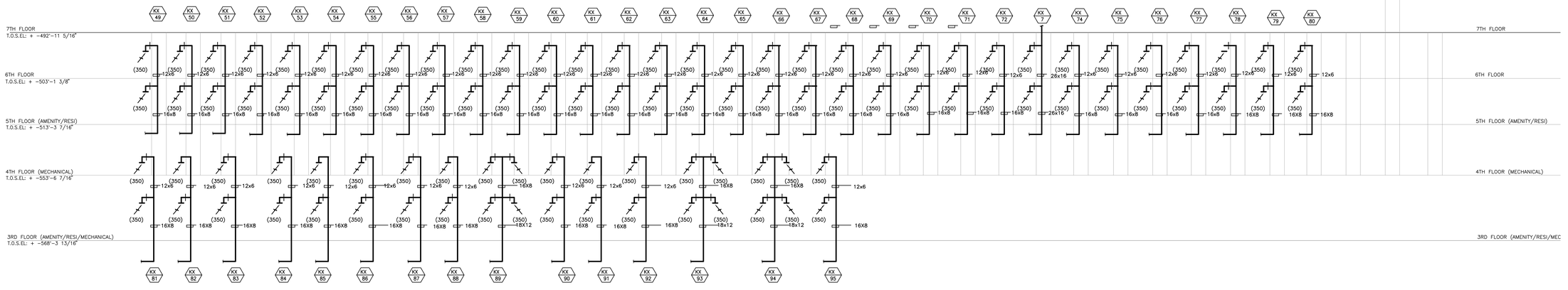

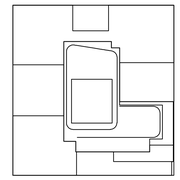

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DOB STAMPS & SIGNATURES:

DWG TITLE:

MECHANICAL
KITCHEN EXHAUST RISER DIAGRAM #1

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. KOTZEBUE · No. 86375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 15503.18
SCALE: NONE

M-311.00
DWG NO.
0IDF

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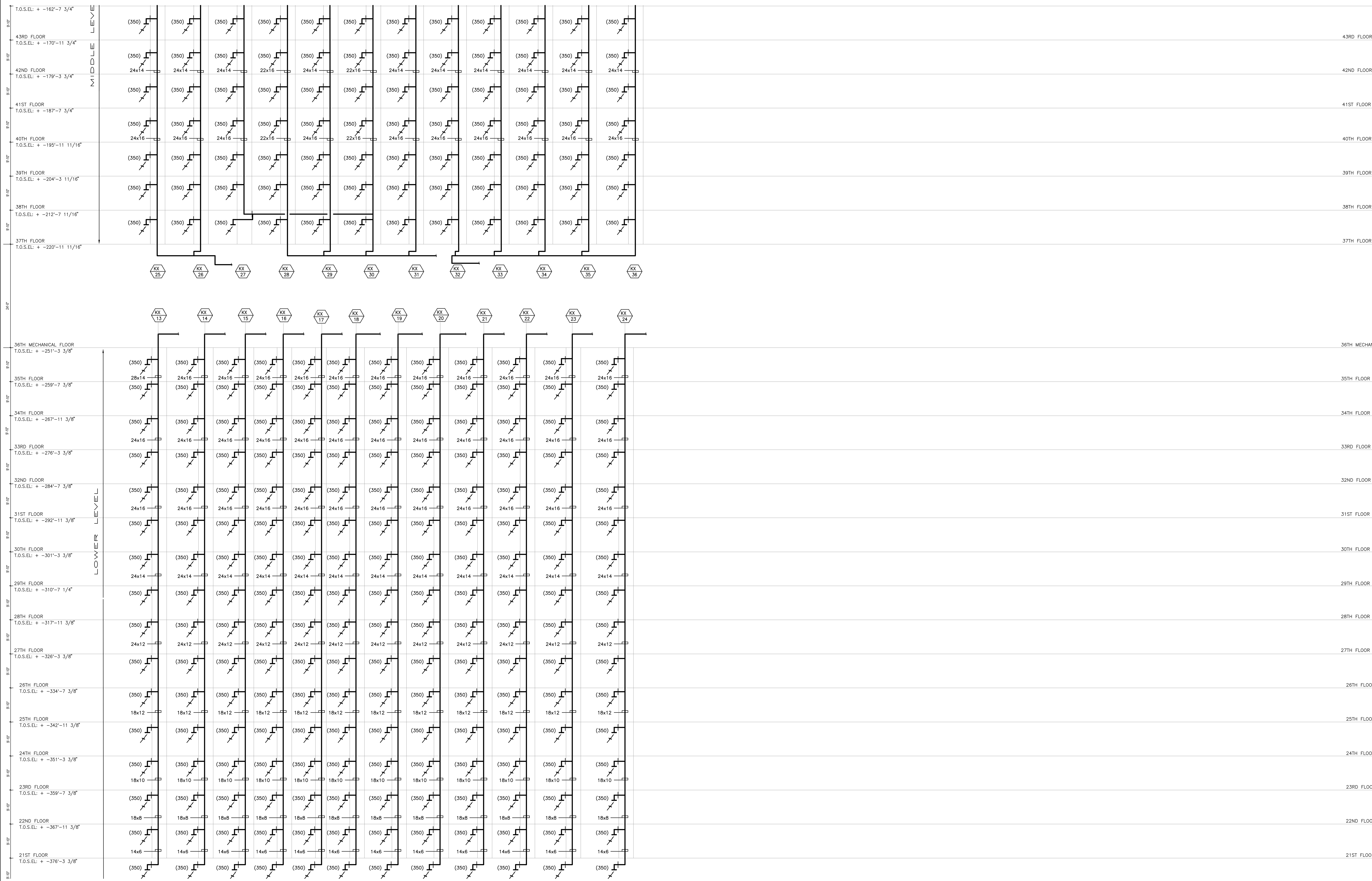
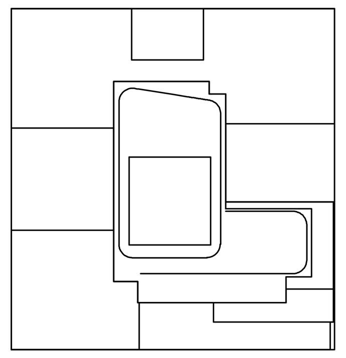


FOR CONTINUATIONS SEE M-311

KEY PLAN



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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
KITCHEN EXHAUST RISER DIAGRAM #2

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
DWG NO. M-312.00
OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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DEPT OF BLDGS 420655954 Job Number

ES871793827 Scan Code

FOR CONTINUATIONS SEE M-312

KEY PLAN

NOTES:

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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
KITCHEN EXHAUST RISER DIAGRAM #3

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-313.00
DWG NO.
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ES529690486 Scan Code

COOLING TOWER SCHEDULE

"BALTIMORE AIR COIL" AS STD.

UNIT NO.	SERVICE	LOCATION	MODEL NO.	NO. OF FANS	NOMINAL TONNAGE	TOTAL GPM	WATER TEMPERATURE ENT. (°F)	WATER TEMPERATURE LVG. (°F)	AMBIENT TEMP. (°F WB)	TOTAL AIR QUANTITY (CFM)	FAN MOTOR H.P.	MAX. P.D (FT.H₂O)	TOTAL OPER. WEIGHT (IBS.)	PAN HEATER (KW)	DIMENSIONS L"xW"xH"	Volt/Ph/Hz	REMARKS
CT-1	C.W. SYSTEM	ROOF	S3E-1424-07P	1	800	1,610	100	85	78	167,790	40	4.91	34,660	(2)14	13'-11"Lx24'-0"Wx12'-1"H	460/3/60	40.25 GPM/HP >40.2 GPM/HP PER ASHRAE 90.1-2013 TABLE 6.8.17
CT-2	C.W. SYSTEM	ROOF	S3E-1424-07P	1	800	1,610	100	85	78	167,790	40	4.91	34,660	(2)14	13'-11"Lx24'-0"Wx12'-1"H	460/3/60	40.25 GPM/HP >40.2 GPM/HP PER ASHRAE 90.1-2013 TABLE 6.8.17
CT-3	C.W. SYSTEM	ROOF	S3E-1424-07P	1	800	1,610	100	85	78	167,790	40	4.91	34,660	(2)14	13'-11"Lx24'-0"Wx12'-1"H	460/3/60	40.25 GPM/HP >40.2 GPM/HP PER ASHRAE 90.1-2013 TABLE 6.8.17

NOTES:

1. PROVIDE LADDER ACCESS FOR EACH TOWER AS REQUIRED BY OSHA.
2. PROVIDE HIGH EFFICIENCY SAND FILTER FOR COOLING TOWER AS SHOWN ON PLAN. SEE SPECIFICATIONS
3. FAN MOTORS SHALL BE PROVIDE WITH VFD'S, WITH DISCONNECT SWITCHES.

BOILER SCHEDULE

"VIESSMANN" AS STD. (LOCHINVAR AND AERCO APPROVED EQUAL)

UNIT NO.	LOCATION	SERVICE	GAS INPUT MBH	GAS OUTPUT MBH	GAS MIN. OPER GAS PRESS (IN.WG)	BOILER HP	GPM	FLUE OUTLET SIZE (IN)	FUEL	MAX WORK. PRESS. RELIEF VALVE	DESIGN PRESS. PSIG	MAX % EFF	WATER TEMP °F ENT.	WATER TEMP °F LVG.	MODEL NO.	DIMENSIONS L"xW"xH"	UNIT WT. (lbs)	ELECTRICAL	MAX AMPS	LOCATION	BOILER EFFICIENCY %	NOX (PPM)
B-1 THRU B-6	4TH FL MER	HEATING AND DOMESTIC HOT WATER STORAGE TANK	4000	3840	4"-14"	160	400	12"	NAT. GAS	125	75	96	110	180	VITOCROSSAL 300 CA3 4.0	101"x39"x84"	6286	120/1/60	–	4TH FL. MER	96%	<20

NOTES:

1. SEE SEQUENCE OF OPERATION ON EN-001

PLATE FRAME HEAT EXCHANGER SCHEDULE

"BELL & GOSSETT" AS STD.

UNIT NO.	SERVICE	LOCATION	COLD WATER (SIDE) GPM	COLD TEMP(°F) ENT.	COLD TEMP(°F) LVG.	COLD PD PSI	COLD WORKING PRESS. (PSIG)	HOT WATER (SIDE) GPM	HOT TEMP(°F) ENT.	HOT TEMP(°F) LVG.	HOT PD PSI	HOT WORKING PRESS. (PSIG)	CA3 4.0 WEIGHT (lb.)	DIMENSIONS LxWxH	MODEL NO.	NO. OF PLATES	REMARKS
PHX-4-1 & 2	LOW ZONE HOT WATER	4TH FL MER	1250	160	125	10	300	1680	160	125	10	300	3993	52"x21"x91"	P64-BY5418	204	300# 6" CONNECTION ONE STAND BY
PHX-36-1 & 2	LOW ZONE CONDENSER WATER	36TH FL MER	3000	85	100	12	300	3000	102	87	12	300	8641	99"x26"x95"	P86-BY5433	432	300# 8" CONNECTION ONE STAND BY
PHX-36-3 & 4	HIGH ZONE HOT WATER	36TH FL MER	600	160	125	10	300	600	160	125	10	300	3993	52"x21"x91"	P64-BY5418	204	300# 6" CONNECTION ONE STAND BY
PHX-67-1 & 2	HIGH ZONE CONDENSER WATER	67TH FL MER	1800	85	100	10	150	1800	102	87	10	150	10,100	105"x36"x107"	AP130-BY5425	472	150# 8" CONNECTION ONE STAND BY

PUMP SCHEDULE

"BELL & GOSSETT" AS STD.

PUMP NO.	SERVICE	LOCATION	TYPE	GPM	TOTAL DYNAM. HEAD FEET	MIN. DESIGN WORKING PRESS. P.S.I.G.	MODEL NO.	DIMENSIONS LxWxH IN.	PUMP PREMIUM MOTOR WT lbs	MOTOR HP	MOTOR RPM	MOTOR V/Ph/Hz	VIBR. ISOL. SPEC. TYPE	MIN. STATIC DEFL. INCHES	REMARKS
PHWP-4-1&2	PRIMARY HOT WATER	4TH FL MER	VERTICAL SPLIT CASE	1250	50	150	5BD E-1510	52"x16"x25"	640	15	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
PHWP-4-3&4	PRIMARY HOT WATER	4TH FL MER	VERTICAL SPLIT CASE	1000	50	150	5BD E-1510	52"x16"x25"	640	15	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
SHWP-4-1&2	SECONDARY HOT WATER	4TH FL MER	VERTICAL SPLIT CASE	1000	115	150	5GB E-1510			40	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
SCWP-4-1&2	SECONDARY CONDENSER WATER	4TH FL MER	VERTICAL SPLIT CASE	750								460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
PCWP-36-1&2	LOW ZONE PRIMARY CONDENSER WATER	36TH FL MER	VERTICAL SPLIT CASE	3000	95	150	VSC-6x10x13½"A	73"x31"x45"	3506	50	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
SCWP-36-1&2	LOW ZONE SECONDARY CONDENSER WATER	36TH FL MER	VERTICAL SPLIT CASE	3000	110	150	VSC-8x10x13½"A	73"x31"x45"	3836	50	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
PHWP-36-1&2	PRIMARY HOT WATER	36TH FL MER	VERTICAL SPLIT CASE	1250	85	150	VSC-4x6x10½B	57"x25"x31"	1381	20	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
SHWP-36-1&2	SECONDARY HOT WATER	36TH FL MER	VERTICAL SPLIT CASE	1250	85	150	VSC-4x6x10½B	57"x25"x31"	1381	20	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
PCWP-67-1&2	HIGH ZONE PRIMARY CONDENSER WATER	67TH FL MER	VERTICAL SPLIT CASE	1800	50	150	VSC-6x8x10½"B	61"x26"x36"	1911	40	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP
SCWP-67-1&2	HIGH ZONE SECONDARY CONDENSER WATER	67TH FL MER	VERTICAL SPLIT CASE	1800	85	150	VSC-6x8x13½"B	61"x25"x36"	2055	60	1800	460/3/60	SPRING	2"	PROVIDE WITH VFD ONE STAND BY PUMP

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	CFM	TOTAL STATIC	FRPM	MOTOR RPM	TYPE	MODEL NO.	BHP	MOTOR HP	Volt/Ph/Hz	MANUF.	REMARKS
TEF-1-1&2 &3&5&6	1ST FL	PUBLIC TOILET	75	0.5	950	1725	INLINE	SP-B110		80 W	208/3/60	GREENHECK	
TEF-1-4	1ST FL	GYM TOILET	275	0.5	1017	1725	INLINE	SP-A510-VG		224 W	208/3/60	GREENHECK	
KEF-2-1	2ND FL.	CELLAR FLOOR RESTAURANT	10,000	5.25	1670	1725	INLINE	QEI-30-II-250	19.52	25	208/3/60	GREENHECK	
TEF-2-1	2ND FL.	CELLAR FLOOR TOILET	1,000	0.5	952	1725	INLINE	BSQ-130HP	0.08	1/4	208/3/60	GREENHECK	
TEF-3-1	3rd FL MER	PUBLIC TOILET	700	0.75	1017	1725	INLINE	SP-A700		350 W	208/3/60	GREENHECK	
TEF/KEF-3-1	3rd FL MER	RESIDENTIAL TOILET (3rd FL. -6th FL.)	11,900	2.0	1603	1725	INLINE	SQ-160-VG	1.41	2	208/3/60	GREENHECK	
TEF/KEF-3-2	3rd FL MER	RESIDENTIAL TOILET (7th FL. -19th FL.)	35,400	2.5	1199	1725	INLINE	BSQ-240	4.4	5	208/3/60	GREENHECK	
TEF/KEF-3-3	3rd FL MER	RESIDENTIAL TOILET (7th FL. -19th FL.)	12,040	2.5	1582	1725	INLINE	BSQ-180	2.48	3	208/3/60	GREENHECK	
TEF/KEF-4-1	4th FL MER	RESIDENTIAL TOILET (3rd FL. -6th FL.)	7,140	2.0	1574	1725	INLINE	SQ-160-VG	1.28	2	208/3/60	GREENHECK	
TEF/KEF-36-1	36TH FL MER	RESIDENTIAL TOILET (20th FL. -35th FL.)	32,800	2.5	1237	1725	INLINE	QEI-20-I	3.04	5	208/3/60	GREENHECK	
TEF/KEF-36-2	36TH FL MER	RESIDENTIAL TOILET (20th FL. -35th FL.)	17,360	2.5	1237	1725	INLINE	QEI-20-I	3.04	5	208/3/60	GREENHECK	
TEF/KEF-36-3	36TH FL MER	RESIDENTIAL TOILET (37th FL. -51st FL.)	27,650	2.5	998	1725	INLINE	QEI-33-I	10.88	15	208/3/60	GREENHECK	VFD
TEF/KEF-36-4	36TH FL MER	RESIDENTIAL TOILET (37th FL. -51st FL.)	20,790	2.5	1771	1725	INLINE	QEI-27-I	7.8	15	208/3/60	GREENHECK	VFD
TEF-67-1	67th FL MER	RESIDENTIAL TOILET (52nd FL. -66th FL.)	4,500	1	775	1725	INLINE	BSQ-240	1.32	1.5	208/3/60	GREENHECK	
TEF-67-2	67th FL MER	RESIDENTIAL TOILET (52nd FL. -66th FL.)	7,300	1	644	1725	INLINE	BSQ-300	2.31	3	208/3/60	GREENHECK	
KEF-67-1	67th FL MER	RESIDENTIAL KITCHEN (52nd FL. -66th FL.)	10,500	1	802	1725	INLINE	BSQ-360HP	4.97	5	208/3/60	GREENHECK	VFD
KEF-67-2	67th FL MER	RESIDENTIAL KITCHEN (52nd FL. -66th FL.)	11,300	1.5	1190	1725	INLINE	BSQ-300HP	7.57	7.5	208/3/60	GREENHECK	VFD
DEF-C-1	CELLAR	LAUNDRY ROOM	2,000	2.0	1740	2,300	INLINE	BEF500	–	3	208/3/60	ENERVEX	VFD
DEF-3-1	3RD FL MER	RESIDENTIAL DRYER (3rd FL. – 19th FL.)	2,000	2.0	1740	2,300	INLINE	BEF500	–	3	208/3/60	ENERVEX	VFD
DEF-3-2	3RD FL MER	RESIDENTIAL DRYER (3rd FL. – 19th FL.)	6,800	2.5	1740	1725	INLINE	BEF700	–	10	208/3/60	ENERVEX	VFD
DEF-4-1	4TH FL MER	RESIDENTIAL DRYER (3rd FL. – 19th FL.)	5,200	2.5	1740	1725	INLINE	BEF600	–	5	208/3/60	ENERVEX	VFD
DEF-36-1	36TH FL MER	RESIDENTIAL DRYER (20th FL. – 35th FL.)	3,600	1.5	1740	1725	INLINE	BEF600	–	5	208/3/60	ENERVEX	VFD
DEF-36-2	36TH FL MER	RESIDENTIAL DRYER (20th FL. – 35th FL.)	5,400	2.5	1740	1725	INLINE	BEF700	–	10	208/3/60	ENERVEX	VFD
DEF-36-3	36TH FL MER	RESIDENTIAL DRYER (37th FL. – 51st FL.)	5,400	2.5	1740	1725	INLINE	BEF700	–	10	208/3/60	ENERVEX	VFD
DEF-36-4	36TH FL MER	RESIDENTIAL DRYER (37th FL. – 51st FL.)	7,200	2.5	1740	1725	INLINE	BEF700	–	10	208/3/60	ENERVEX	VFD
DEF-67-1	67th FL MER	RESIDENTIAL DRYER (52nd FL. – 66th FL.)	8,400	2.0	1740	1725	INLINE	BEF700	–	10	208/3/60	ENERVEX	VFD
DEF-67-2	67th FL MER	RESIDENTIAL DRYER (52nd FL. – 66th FL.)	4,200	2.0	1740	1725	INLINE	BEF600	–	5	208/3/60	ENERVEX	VFD
GEF-C-1	CELLAR	SEWAGE EJECTOR PIT ROOM	500	.5	1410	1725	INLINE	SQ-99-VG	.14	1/4	120/1/60	GREENHECK	
GEF-C-2	CELLAR	FE 11, 12 & 13 EMR	500	.5	1410	1725	INLINE	SQ-99-VG	.14	1/4	120/1/60	GREENHECK	
GEF-C-3	CELLAR	RETENTION TANK PUMP ROOM	600	.75	1327	1725	INLINE	SQ-130HP-VG	.17	1/2	208/1/60	GREENHECK	
GEF-C-4	CELLAR	PLUMBING ROOM	600	.75	1327	1725	INLINE	SQ-130HP-VG	.17	1/2	208/1/60	GREENHECK	
GEF-C-5	CELLAR	DOMESTIC WATER RM	600	.5	1006	1100	INLINE	SQ-140HP-VG	.01	1/4	120/1/60	GREENHECK	
GEF-C-6	CELLAR	FUTURE MTA EMR	400	.5	1410	1725	INLINE	SQ-99-VG	.14	1/4	120/1/60	GREENHECK	
GEF-1-1	1ST FL	LOADING DOCK	4,000	.5	1725	1725	INLINE	QEID-16-75-A15	1.15	1 1/2	208/60/3	GREENHECK	
GEF-1-2	1ST FL	PET BATH	300	.5	1296	1725	INLINE	SQ-98-VG	0.09	.5	208/60/3	GREENHECK	
GEF-1-3	1ST FL	CELLAR SUMP. PUMP FAN	300	.5	1269	1725	INLINE	SQ-98-VG	0.09	.25	208/60/3	GREENHECK	
GEF-2-1	2ND FL.	ELEVATOR	150	0.5	1395	1725	INLINE	SQ-97-VG	0.09	1/4		GREENHECK	
GEF-3-1	3RD FL MER	SPA ROOM	500	.5	793	1725	PROPELLER FAN	SBE-1H24	0.34	0.5	208/60/3	GREENHECK	
GEF-3-2	3RD FL MER	TRASH ROOM (CELLAR – 19TH FL.)	2,675	1	1276	1725	INLINE	BSQ-160	0.86	1	208/60/3	GREENHECK	
GEF-4-1	3RD FL MER	POOL AREA	1000	.75	1260	1725	INLINE	SQ-130-VG	0.23	0.75	208/60/3	GREENHECK	
GEF-36-1	36TH FL MER	TRASH ROOM (21ST FL. – 51ST FL.)	2,350	1	1227	1725	INLINE	SQ-160-VG	0.69	1	208/60/3	GREENHECK	
GEF-67-1	67TH FL MER	TRASH ROOM (52ND FL.-66TH FL.)	1,125	0.75	1306	1725	INLINE	SQ-130-VG	0.27	0.75	208/60/3	GREENHECK	
EF-3-1&2	3RD FL MER	3RD FL. MECHANICAL RM	6,000	1.0	1360	1725	INLINE	SBCE-3H30	1.91	2	208/60/3	GREENHECK	
EF-4-1&2	4TH FL MER	4TH FL. MECHANICAL RM	6,000	1.0	1360	1725	INLINE	SBCE-3H30	1.91	2	208/60/3	GREENHECK	VFD
EF-36-1	36TH FL MER	36TH FL. MECHANICAL RM	10,200	1.0	1546	1725	INLINE	SBCE-3H30	3.27	3	208/60/3	GREENHECK	
EF-36-2	36TH FL MER	36TH FL. MECHANICAL RM	7,400	1.0	1,617	1725	INLINE	SBCE-3H30	2.26	2	208/60/3	GREENHECK	
EF-67-1	67TH FL MER	67TH FL. MECHANICAL RM	16,800	1.5	579	1725	INLINE	QEI-40-I	5.88	7.5	208/60/3	GREENHECK	
SF-3-1&2	3RD FL MER	E.G.R	38,000	1.5	391	1725	INLINE	QEI-60-II	12.86	15	460/60/3	GREENHECK	
PFSPF-1&2	ROOF	POST FIRE SMOKE PURGE	4,000	1.5		1725		SFB-15-50		5	208/60/3	GREENHECK	EMERGENCY POWER VFD
SF-R-1&2													
SEF-2-1	2ND FL.	CELLAR FL.	32,000	2	412	1725	INLINE	QEI-60-II	15.34	20	460/60/3	GREENHECK	EMERGENCY POWER VFD
SEF-4-1	4th FL MER	1ST FL. – 6TH FL. (RESIDENTIAL & CORRIDOR)	5,500	2	747	1725	INLINE	BSQ-360HP	3.88	5	460/60/3	GREENHECK	EMERGENCY POWER VFD
SEF-36-1	36TH FL MER	7TH FL. – 36TH FL. (RESIDENTIAL & CORRIDOR)	5,500	2	747	1725	INLINE	BSQ-360HP	3.88	5	460/60/3	GREENHECK	EMERGENCY POWER VFD
SEF-67-1	67TH FL MER	37TH FL. – 67TH FL. (RESIDENTIAL & CORRIDOR)	5,500	2	747	1725	INLINE	BSQ-360HP	3.88	5	460/60/3	GREENHECK	EMERGENCY POWER VFD

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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

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

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DWG TITLE:
MECHANICAL
SCHEDULES SHEET-1

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-400.00
DWG NO.
0RDF

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-400.dwg SAVED ON 10/12/2017 10:00 AM PLOTTED ON 10/12/2017 3:06 PM PLOTTED BY VALITE, VAN

DEPT OF BLDGS 420655954 Job Number
ES597247549 Scan Code

HEAT RECOVER UNIT (ERV WHEEL) SCHEDULE

MWSK EQUIPMENT AS STD

UNIT NO.	AREA SERVED	LOCATION	TYPE	EVAPORATOR FAN AIR QTY (CFM)	TOTAL O.A. CFM	EXT SP IN.WG	RPM	FAN QTY	FAN HP	EXHAUST CFM	COMPRESSOR QTY	MCA	MOP	LRA	RLA	COOLING COIL CAPACITY TOTAL MBH	SENS MBH	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	EWT DB °F	LWT DB °F	GPM	PD	HOT GAS REHEAT COIL EAT	LAT	TOTAL MBH	HEATING COIL CAPACITY TOTAL MBH	EAT DB °F	LAT DB °F	EWT DB °F	LWT DB °F	GPM	PD	Volts/Ph/Hz	SUMMER WHEEL EAT DB °F	RAT DB °F	WINTER WHEEL EAT WB °F	RAT DB °F	MODEL NO.	MANUFACTURE	EER	REMARKS
AC–4–1	APARTMENT O.A (3rd FL. – 6th FL.)	4th FL MER	VERTICAL	5,400	5,400	2	1725	1	5	5,400	2	35.2	45	100	12.6	198.8	150.1	80.1	66	54.9	53.9	85	97	38.4	13.2	54.9	75.6	122.8	391.1	10	76.5	180	160	39.3	7.4	460/3/60	89.9	75	25.8	72	VZWL15G4ATAA–X	MWSK EQUIPMENT	13.5	VFD
AC–4–2	APARTMENT O.A (3rd FL. – 6th FL.)	4th FL MER	VERTICAL	8,000	8,000	2	1725	2	5	8,000	4	57.7	60	75	9.5	222.4	462	79.9	65.9	54.7	52.9	85	97	62	11.5	54.7	74.1	170.9	590.1	10	77.7	180	160	60	7.3	460/3/60	90.1	75	25.2	72	VZWD24G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–4–3	APARTMENT O.A (7th FL. – 19th FL.)	4th FL MER	VERTICAL	10,200	10,200	2	1725	2	7.5	10,200	4	73.7	80	100	12.6	389.6	290.9	80.7	66.5	54.8	54	85	99.8	62	11.4	54.8	74.8	224.6	764	10	78.7	180	160	78	12.2	460/3/60	89.3	75	27.9	72	VZWD30G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–4–4	APARTMENT O.A (7th FL. – 19th FL.)	4th FL MER	VERTICAL	19,200	19,200	2	1725	2	15	19,200	4	134.3	150	150	23.1	742.6	544.8	80.9	66.6	55.2	54	85	97	144	7	55.2	75.3	423.7	1480.9	10	80.8	180	151	151	10.5	460/3/60	89.1	75	28	72	VZWD60G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–36–1	APARTMENT O.A. (20th FL – 35th FL.)	36th FL MER	VERTICAL	19,300	19,300	2	1725	2	7.5	19,300	4	134.3	150	150	23.1	742.6	544.8	80.9	66.6	55.2	55	85	97	144	7	55.2	75.3	423.7	1480.9	10	80.8	180	160	151	10.5	460/3/60	89.1	75	28.4	72	VZWD60G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–36–2	APARTMENT O.A. (20th FL – 35th FL.)	36th FL MER	VERTICAL	10,800	10,800	2	1725	2	7.5	10,800	4	73.7	80	100	12.6	389.6	290.9	80.7	66.5	54.8	54	85	97	78	17.2	54.8	74.8	224.6	764	10	78.7	180	160	78	12.2	460/3/60	89	75	28.6	72	VZWD30G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–36–3	APARTMENT O.A. (37th FL – 50th FL.)	36th FL MER	VERTICAL	16,800	16,800	2	1725	2	10	16,800	4	102.8	110	125	17.9	619.4	467.9	80.4	66.2	55.1	54.1	85	97	118	14.5	55.1	75.4	375.8	1224.7	10	76.9	180	160	128	7.3	460/3/60	89.6	75	26.8	72	VZWD50G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–36–4	APARTMENT O.A. (37th FL – 50th FL.)	36th FL MER	VERTICAL	10,800	10,800	2	1725	2	7.5	10,800	4	73.7	80	100	12.6	389.6	290.9	80.7	66.5	54.8	54	85	97	78	17.2	54.8	74.8	224.6	764	10	78.7	180	160	78	12.2	460/3/60	89	75	28.6	72	VZWD30G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–67–1	APARTMENT O.A. (51st FL – 66th FL.)	67th FL MER	VERTICAL	15,000	15,000	2	1725	2	7.5	15,000	4	91.9	100	114	16.7	501.6	379.2	80.6	66.4	55.1	54.3	85	97.1	96	8.7	55.1	77.8	336.6	1021.6	10	79.4	180	160	98.2	7.6	460/3/60	89.4	75	27.4	72	VZWD40G4DTAA–X	MWSK EQUIPMENT	13.5	VFD
AC–67–2	APARTMENT O.A. (51st FL – 66th FL.)	67th FL MER	VERTICAL	18,600	18,600	2	1725	2	10	18,600	4	102.8	110	125	17.9	619.4	467.9	80.4	66.2	55.1	54.1	85	97	118	14.5	55.1	75.4	375.8	1224.7	10	76.9	180	160	128	7.3	460/3/60	89.6	75	26.8	72	VZWD50G4DTAA–X	MWSK EQUIPMENT	13.5	VFD

NOTES:
1. PROVIDE R–410a GREEN REFRIGERANT FOR ALL UNITS.
2. 100% OUTSIDE AIR UNIT
3. COATED COIL
4. MODULATING HOT GAS REHEAT.
5. FREEZE BLOCK HOT WATER COIL INCLUDING EXPANSION RELIEF HEADERS EQUIPPED WITH PRESSURE AND TEMPERATURE SENSING VALVES TO PREVENT FREEZE DAMAGE TO THE UNITS AND INSTALL IN FIELD).
6. EXTRA QUITE SOUND PACKAGE.
7. STAINLESS STEEL DRAIN PAN.
9. HOT GAS BYPASS.

VERTICAL HEAT PUMP UNIT SCHEDULE

"ENVIROTEC" AS STD. (ISLANDAIRE AND HTS APPROVED EQUAL)

UNIT TYPE	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	CONDENSER WATER EWT	LWT (°F)	GPM	WPD (FT)	AIR TEMP (°F) ENT.	LVG.	FAN DATA CFM	ESP	TOTAL HEAT REJECTION (MBH)	HEATING MODE EWT (°F)	LWT (°F)	HTG (MBH)	COMPRESSOR QUANTITY	TYPE	RLA	FLA	MIN. CIRCUIT AMP.	MAX FUSE/ HACR	VOLTS/PH/HZ	MODEL NO.	DIMENSIONS	EER	COP	REMARKS
A	8.2	6.3	87	101	1.6	7	80	61.7	320	0.05	11.6	70	60	17.6	1	ROTARY	4.7	5.4	6	15	208/1/60	XXX	17"(W)x17"(D)x88"(H)	13	4.3	
B	11.1	8.4	87	101	1.8	7	80	64.6	390	0.05	11.9	70	60	24.7	1	ROTARY	5.6	6.6	7	15	208/1/60	XXX	20"(W)x20"(D)x88"(H)	13	4.3	
C	13.7	11.2	87	101	2	7	80	62.3	570	0.05	19	70	60	28.8	1	ROTARY	6.6	7.6	9	15	208/1/60	XXX	20"(W)x20"(D)x88"(H)	13.2	4.3	
D	17.1	13.4	87	101	2.4	7	80	62.3	655	0.05	23	70	60	28.8	1	ROTARY	6.6	7.6	12	15	208/1/60	XXX	20"(W)x20"(D)x88"(H)	13.2	4.3	

NOTES:
1. CAPACITIES INDICATED ARE NOMINAL. ALL UNITS TO BE PROVIDED WITH: THERMOSTAT, DISCONNECT SWITCH, EXTENDED RANGE VALVE FOR LOW WATER TEMP OPERATION, AND BE PROVIDED WITH EXTRA QUIET SOUND PACKAGE. UNIT TO BE PROVIDED WITH AUTOMATIC CONTROL/BALANCING VALVE TO CLOSE WATER WHEN UNIT IS OFF.
2. ALL UNITS AND COMPONENTS TO BE DESIGNED FOR MINIMUM OF 250 PSI FROM 1ST FLOOR TO 30TH FLOOR AND 200 PSI FROM 31ST FLOOR TO 49TH FLOOR.
3. UNITS SERVING MULTIPLE ROOMS TO BE PROVIDED WITH INTERNAL ACOUSTIC LINED 2" THICK BAFFLE TO BALANCE AIR TO DIFFERENT ROOMS.

HEAT PUMP UNIT SCHEDULE (AC)

UNIT TYPE	SERVICE	LOCATION	TONNAGE	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	CONDENSER WATER EWT	LWT (°F)	GPM	WPD (FT)	AIR TEMP (°F) ENT.	LVG.	MED.SP. FAN DATA CFM	ESP	OA CFM	TOTAL HEAT REJECTION (MBH)	HEATING MODE EWT (°F)	LWT (°F)	HTG (MBH)	COMPRESSOR QUANTITY	TYPE	RLA	LRA	MIN. CIRCUIT AMP.	MAX FUSE/ HACR	FLA	VOLTS/PH/HZ	HP	MODEL NO.	MANUFACTURER	EER	COP	CONFIGURATION	REMARKS
AC–C–1	TELECOM ROOM	CELLAR	5	59	44.7	85	95	15	10.6	75	55	2,000	.5	0	72.5	70	60	73.7	1	SCROLL	7.8	52	13.8	20	11.8	460/3/60	1	LV060–4HZC	FLORIDA	13	4.8	HORIZONTAL	
AC–C–2	ELECTRICAL ROOM	CELLAR	5	59	44.7	85	95	15	10.6	75	55	2,000	.5	0	72.5	70	60	73.7	1	SCROLL	7.8	52	13.8	20	11.8	460/3/60	1	LV060–4HZC	FLORIDA	13	4.8	HORIZONTAL	
AC–C–3	LOBBY	CELLAR	30	301.4	219.2	85	95	75	18.1	83	57	8,000	1.5	3200	369.8	70	60	366.6	2	SCROLL	18.6	125	50.5	60	45.8	460/3/60	3	EC300–4VTC	FLORIDA	13	4.3	VERTICAL	
AC–C–4	TENANT STORAGE	CELLAR	10	119.2	90.2	85	95	28	12.6	75	54	3,800	1.0	0	145.2	70	60	155.4	2	SCROLL	7.8	52	21.9	25	19.9	460/3/60	3	EC120–4HZC –SLSBUA	FLORIDA	12.9	5.1	HORIZONTAL	
AC–C–5	COMPACTOR ROOM	CELLAR	2	22.7	17.4	85	95	6.0	12.8	85	55	800	.5	0	27.6	70	60	28.8	1	SCROLL	2.9	30	5.7	15	5.00	460/3/60	.5	LV024–4HZC	FLORIDA	13	4.5	HORIZONTAL	
AC–C–6	EXERCISE ROOM	CELLAR	10	123.2	95.47	85	95	24	10	80	55	3800	1.0	1200	156.05	70	60	148.58	2	SCROLL	9.7	3.2	26.4	35	20.3	460/3/60	3	EC120–4HZC –SLSBUA	FLORIDA	13	4.3	HORIZONTAL	
AC–C–7	SUPER'S OFFICE	CELLAR	.75	35.8	28.0	85	95	9.0	11.9	75	55	1,200	.5	200	43.4	70	60	44.3	1	SCROLL	3.9	34	7	15	6.00	460/3/60	.5	LV036–4HZC	FLORIDA	13	5.1	HORIZONTAL	
AC–C–8	LAUNDRY ROOM	CELLAR	2	22.7	17.4	85	95	6.0	12.8	85	55	800	.5	200	27.6	70	60	28.8	1	SCROLL	2.9	30	5.7	15	5.00	460/3/60	.5	LV024–4HZC	FLORIDA	13	4.5	HORIZONTAL	
AC–C–9	MTA EMR	CELLAR	3	35.8	28.0	85	95	9.0	11.9	75	55	1,200	.5	0	43.4	70	60	44.3	1	SCROLL	3.9	34	7	15	6.00	460/3/60	15	LV036–4HZC	FLORIDA	13	5.1	HORIZONTAL	
AC–C–10	EMR	CELLAR	5	59	44.7	85	95	15	10.6	75	55	2,000	.5	0	72.5	70	60	73.7	1	SCROLL	7.8	52	13.8	20	11.8	460/3/60	1	LV060–4HZC	FLORIDA	13	4.8	HORIZONTAL	
AC–C–11	NOT USED																																
AC–C–12	ELECTRICAL CLOSET RM	CELLAR	2	22.7	17.4	85	95	6.0	12.8	85	55	800	.5	0	27.6	70	60	28.8	1	SCROLL	2.9	30	5.7	15	5.00	460/3/60	.5	LV024–4HZC	FLORIDA	13	4.5	HORIZONTAL	
AC–C–13	STORAGE RM	CELLAR	2.5	28.8	22	85	95	7.5	13.7	75	63	900	.4	0	34.8	70	60	35.5	1	SCROLL	3.5	30	6.6	15	5.7	460/3/60	.5	LV030–4HZC	FLORIDA	14.2	5.5	HORIZONTAL	
AC–2–1	MER	2ND FL.	3	35.8	28.0	85	95	9.0	11.9	75	55	1,200	.5	0	43.4	70	60	44.3	1	SCROLL	3.9	34	7	15	6.00	460/3/60	.5	LV036–4HZC	FLORIDA	13	5.1	HORIZONTAL	
AC–3–1	LOUNGE	3RD FL.	15	157.5	120.9	85	95	42	11.9	80	57	4,510	1.0	1500	190.6	70	60	154	2	SCROLL	10.6	75	30	40	6.1	460/3/60	5	EC181–4VTC	FLORIDA	13.8	4.8	VERTICAL	
AC–3–2	POOL EQUIP. ROOM	3RD FL.	3	35.8	28.0	85	95	9.0	11.9	75	55	1,200	.5	0	43.4	70	60	44.3	1	SCROLL	3.9	34	7	15	6.00	460/3/60	.5	LV036–4HZC	FLORIDA	13	5.1	HORIZONTAL	
AC–3–3	ATS/ELECT. ROOM	3RD FLOOR	5	59	44.7	85	95	15	10.6	75	55	2,000	.5	0	72.5	70	60	73.7	1	SCROLL	7.8	52	13.8	20	11.8	460/3/60	1	LV060–4HZC	FLORIDA	13	4.8	HORIZONTAL	
AC–3–4	KID'S RM MEN/WOMEN'S LOCKER RM	3RD FLOOR	5	59	44.7	85	95	15	10.6	75	55	2,000	.5	800	72.5	70	60	73.7	1	SCROLL	7.8	52	13.8	20	11.8	460/3/60	1	LV060–4HZC	FLORIDA	13	4.8	HORIZONTAL	
AC–3–5	MAIN POOL	3RD FLOOR	14	156.4	81.8	85	95	38.7	5.9	85	60	6,400	1.0	1,000	195.5	180	160	120	1	SCROLL	24.4	145	38	60	3.7	460/3/60	3.9	NE–014–NH–I–V1NT1642W0E2AN0	SERESCO	17.4		HORIZONTAL	
AC–3–6	SPA POOL	3RD FLOOR	4	50.7	26.5	85	95	12.6	0.7	85	60	2,000	1.0	0	63.4	180	160	120	1	SCROLL	9.6	62	15	20	11.9	460/3/60	2.4	NE–014–NH–I–V1NT1642W0E2AN0	SERESCO	15		HORIZONTAL	
AC-CS-3-1	CORRIDOR 3RD–6TH FL.	3RD FLOOR	15	157.5	120.9	85	95	42	11.9	80	57	4,510	1.0	4,510	190.6	70	60	154	2	SCROLL	10.6	75	30	40	6.1	460/3/60	5	EC181–4VTC	FLORIDA	13.8	4.8	VERTICAL	
AC-CS-3-2	CORRIDOR 3RD–6TH FL.	3RD FLOOR	15	157.5	120.9	85	95	42	11.9	80	57	4,510	1.0	4,510	190.6	70	60	154	2	SCROLL	10.6	75	30	40	6.1	460/3/60	5	EC181–4VTC	FLORIDA	13.8	4.8	VERTICAL	
AC-CS-4-1	CORRIDOR 7TH–19TH FL.	4TH FLOOR	20	301.4	219.2	85	95	75	18.1	83	57	8,000	1.0	8000	369.8	70	60	366.6	2	SCROLL	18.6	125	50.5	60	45.8	460/3/60	3	EC300–4VTC	FLORIDA	13	4.3	VERTICAL	
AC-CS-4-2	CORRIDOR 7TH–19TH FL.	4TH FLOOR	20	301.4	219.2	85	95	75	18.1	83	57	8,000	1.0	8000	369.8	70	60	366.6	2	SCROLL	18.6	125	50.5	60	45.8	460/3/60	3	EC300–4VTC	FLORIDA	13	4.3	VERTICAL	
AC-CS-36-5	CORRIDOR 20TH–36TH FL.	36TH FLOOR	20	301.4	219.2	85	95	75	18.1	83	57	8,000	1.0	8000	369.8	70	60	366.6	2	SCROLL	18.6	125	50.5	60	45.8	460/3/60	3	EC300–4VTC	FLORIDA	13	4.3	VERTICAL	
AC-CS-36-6	CORRIDOR 37TH–51ST FL.	36TH FLOOR	20	301.4	219.2	85	95	75	18.1	83	57	8,000	1.0	8000	369.8	70	60	366.6	2	SCROLL	18.6	125	50.5	60	45.8	460/3/60	3	EC300–4VTC	FLORIDA	13	4.3	VERTICAL	
AC–36–7	37th FLOOR EMR	36th FLOOR	10	119.2	90.2	85	95	28	12.6	75	54	3,800	1.0	0	145.2	70	60	155.4	2	SCROLL	7.8	52	21.9	25	19.9	460/3/60	3	EC120–4HZC –SLSBUA	FLORIDA	13	4.3	HORIZONTAL	
AC-CS-67-1	CORRIDOR 52ND–66TH FL.	67TH FLOOR	15	157.5	120.9	85	95	42	11.9	80	57	4,510	1.0	4,510	190.6	70	60	154	2	SCROLL	10.6	75	30	40	6.1	460/3/60	5	EC181–4VTC	FLORIDA	13.8	4.8	VERTICAL	
AC-CS-67-2	CORRIDOR 52ND–66TH FL.	67th FLOOR	15	157.5	120.9	85	95	42	11.9	80	57	4,510	1.0	4,510	190.6	70	60	154	2	SCROLL	10.6	75	30	40	6.1	460/3/60	5	EC181–4VTC	FLORIDA	13.8	4.8	VERTICAL	
AC-67-3	ATS ROOM	67th FLOOR	2	22.7	17.4	85	95	6.0	12.8	75	55	800	.5	200	27.6	70	60	28.8	1	SCROLL	2.9	30	5.7	15	5.00	460/3/60	.5	LV024–4HZC	FLORIDA	13	4.5	HORIZONTAL	

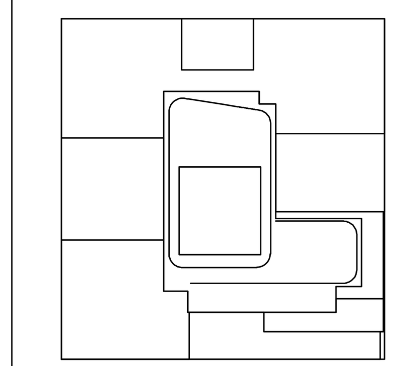
NOTES:
1. CAPACITIES INDICATED ARE NOMINAL. ALL UNITS TO BE PROVIDED WITH: THERMOSTAT, DISCONNECT SWITCH, EXTENDED RANGE VALVE FOR LOW WATER TEMP OPERATION, AND BE PROVIDED WITH EXTRA QUIET SOUND PACKAGE. UNIT TO BE PROVIDED WITH AUTOMATIC CONTROL/BALANCING VALVE TO CLOSE WATER WHEN UNIT IS OFF.
2. ALL UNITS AND COMPONENTS TO BE DESIGNED FOR MINIMUM OF 300 PSI FROM 1ST FLOOR TO 30TH FLOOR AND 200 PSI FROM 31ST FLOOR TO 49TH FLOOR.
3. UNITS SERVING MULTIPLE ROOMS TO BE PROVIDED WITH INTERNAL ACOUSTIC LINED 2" THICK BAFFLE TO BALANCE AIR TO DIFFERENT ROOMS.

HEATING VENTILATING & AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	FAN DATA TOTAL CFM STD. AIR	STATIC PRESS. IN.W.G.	RPM	OUTLET VELOC. FPM	DISCH./ROTAT.	DRIVE TYPE	WHEEL DIAM. IN.	MODEL NO.	CLASS	MOTOR DATA BHP	HP	RPM	V/Ph/Hz	AIR TEMP (°F) ENT.	LVG.	HOT WATER COIL WATER TEMP(F) ENT.	LVG.	GPM	TOTAL MBH	TOTAL SENSIBLE MBH	FIN HGT	FIN LGTH	ROWS DEEP	FPI	NO. CIRC.	MAX.P.D. AIR (IN.)	WTR. (FT.)	COIL NAME	MODEL NUMBER	REMARKS
HV–C–1	RESTAURANT KITCHEN	1ST FL.	8,000	2	890	2454	UP	BELT DRIVE	18"	A18–12A	1	6.1	7.5	1750	208/3/60	0	90	180	160	80	820.6	820.6	30	66	2	12	20	0.29	3.6	LVL14F	WE02F12–30X66	

AIR OUTLET SCHEDULE (METALAIRE OR APPROVED EQUAL)

NECK SIZE	FACE SIZE	MAX CFM	NC	TYPE	MFR.	MODEL	REMARKS
6"ø	24x24	100	30	4 WAY	METALAIRE	5750	PROVIDE WITH BACK PAN (SUPPLY)
8"ø	24x24	200	30	4 WAY	METALAIRE	5750	
10"ø	24x24	300	30	4 WAY	METALAIRE	5750	
12"ø	24x24	400	30	4 WAY	METALAIRE	5750	
14"ø	24x24	600	30	4 WAY	METALAIRE	5750	
16"ø	24x24	880	30	4 WAY	METALAIRE	5750	
––	24x24	880	30	––	METALAIRE	7650R	RETURN GRILLE
12x6	14x8	240	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
12x8 16x6	14x10 18x8	355	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
12x10	14x12	355	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
18x10 30x6	26x8	600	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
22x10	24x12	1100	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
14x14	16x16	980	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
16x16	18x18	1300	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
24x14	26x16	1750	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
36x18	38x20	3000	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
36x24	38x26	4000	30	DOUBLE DEFLECTION	METALAIRE	4004S	SUPPLY GRILLE
12x6	14x8	240	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
12x8 16x6	14x10 18x8	355	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
12x10	14x12	355	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
18x10 30x6	26x8	600	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
22x10	24x12	1100	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
14x14	16x16	980	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
16x16	18x18	1300	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
24x14	26x16	1750	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
36x18	38x20	3000	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE
36x24	38x26	4000	30	DOUBLE DEFLECTION	METALAIRE	4002RS	RETURN GRILLE



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
SCHEDULES SHEET-2

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-401.00
DWG NO.
0 OF

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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

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

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-401.dwg SAVED ON 10/12/2017 9:51 AM PLOTTED ON 10/12/2017 3:06 PM PLOTTED BY VALITE, VAN

SPLIT AIR CONDITIONING UNIT SCHEDULE (AIR COOLED)

"FUJITSU" AS STANDARD

SPACE MOUNTED DX FAN COIL UNIT (INDOOR UNITS)

MARK	SERVICE	MODEL NUMBER	LOCATION	CONFIGURATION	NOM. TONS	TOTAL CLG. MBH	SENSIBLE CLG. MBH	HTG. MBH	RETURN AIR SUMMER DB °F	RETURN AIR SUMMER RH %	RETURN AIR WINTER DB °F	RETURN AIR WINTER RH %	DIMENSIONS HxWxD (IN.)	WEIGHT (LBS)	MIN CFM	MAX CFM	MIN O.A CFM	FAN OUTPUT W	HP	ELECT. DATA VOLT/PH/HZ	FLA	MCA	FILTERS	SEER	NOTES
HP-R-1 & 2	ROOF ELEVATOR MER	ARUH96TLAV	ELEV. MER ROOM	CEILING HUNG	8.0	96.0	–	108.0	80.0	51.0	75.0	30.0	22x63x38	230	2800	2100	0	838	1/3	208/1/60	–	9.4	STD. THROWAWAY	14.0	

OUTDOOR CONDENSING UNIT

MARK	MODEL NUMBER	LOCATION	SERVICE	AMBIENT TEMP. (F)	REFRIG.	EER	COOLING DATA NOMINAL MBH	COOLING ELECTRICAL INPUT KW	COOLING ELECTRICAL INPUT AMPS	HEATING DATA NOMINAL MBH	HEATING ELECTRICAL INPUT KW	HEATING ELECTRICAL INPUT AMPS	ELECT. DATA VOLT/PH/HZ	COMPRESSOR RLA/LRA	FAN OUTPUT (KW)	FAN MOTOR (FLA)	MCA MOCP	FAN CFM	DIMENSIONS HxWxD (IN.)	WEIGHT LB	REFRIGERANT PIPING LIQUID	REFRIGERANT PIPING HOT GAS	NOTES
CU-R-1	AOUA192TLBVG	MAIN ROOF	HP-R-1 & 2	95	R410A	11.60	192	15.78	--	216	14.79	--	208/1/60	– / –	--	–	82	(2)6533	67x96x31	1,300	AS PER MANUFACTURE		

NOTES:
1. ALL AC UNITS SHALL BE SUPPORTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS.
2. ALL AC UNITS SHALL BE PROVIDED WITH AIR FILTER.
3. UNITS SHALL BE PROVIDED WITH CONDENSATE PUMP AND WATER TIGHT DRIP PAN WITH WATER LEAK DETECTORS
4. AC-1-2 AC UNIT SHALL BE COOLING UNIT ONLY.
5. PROVIDE BC CONTROLLER COORDINATE WITH MANUFACTURER SIZE AND CLEARANCE FOR THE CONTROLLER.
6. ALL ACC UNITS SHALL BE PROVIDED WITH CRANKCASE HEATER AND DISCONNECT.
7. ALL OUTDOOR CONDENSING UNIT SHALL BE PROVIDED WITH ROOF CURBS.
8. FAN MOTOR IS LESS THAN 5 HP.

VAV BOX SCHEDULE

(TITUS DIRECT DIGITAL CONTROL MODEL DESV AS STD.)

INLET SIZE	CFM RANGE	DESIGN MAX	DESIGN MIN	△ P MIN	REMARKS
6"ø	80 – 150	150	75	0.033	
8"ø	151 – 375	375	125	0.005	
10"ø	376 – 700	700	250	0.001	
12"ø	701 – 1100	1100	350	0.001	
14"ø	1101 – 1450	1450	500	0.013	
16"ø	1451–1950	1950	750	0.009	

1. ALL VAV BOXES SHALL BE CAPABLE OF SHUTOFF FEATURES WITHOUT ADDITIONAL COMPONENTS OR PIPING.
2. VAV BOX SHALL BE PRESSURE INDEPENDENT AND CONTAIN LOW PRESSURE TERMINAL.

VARIABLE AIR VOLUME SPECIFICATION GUIDE

VARIABLE-AIR VOLUME VALVES TO BE TITUS MODEL DESV WITH DIRECT DIGITAL CONTROL.

CONSTRUCTION

THE ASSEMBLIES SHALL BE MECHANICALLY PRESSURE INDEPENDENT AND MAXIMUM AND MINIMUM AIR FLOW SHALL BE FACTORY SET AND FIELD ADJUSTABLE WITH GALVANIZED STEEL CASING, STAINLESS STEEL SHAFT AND VIRTUALLY MAINTENANCE FREE. THE ASSEMBLIES SHALL BE CAPABLE OF SHUT-OFF WITH A LEAKAGE LESS THAN 2% OF NOMINAL BOX RATING.

PERFORMANCE

ALL VALVES SHALL BE FACTORY CALIBRATED WITH CFM RANGE FROM MAXIMUM TO MINIMUM. THE CFM SETTING WILL BE CAPABLE OF BEING FIELD ADJUSTED BY MEANS OF DDC CONTROL DIAL AT ANY GIVEN CFM SETTING, FROM MINIMUM TO MAXIMUM CFM.

VALVE ACTUATOR

ELECTRICAL ACTUATOR FURNISHED BY THE VALVE MANUFACTURER AND MOUNTED ON THE VALVE BY THE VALVE MANUFACTURER. CONTROL SHALL BE DDC ELECTRONIC WITH TD1 CONTROLLER AND THERMOSTAT.

100% OA UNITS - HW COIL FREEZE PROTECTION CENTRIFUGAL PUMP SCHEDULE

(BELL & GOSSETT AS STANDARD)

PUMP NO.	QUANTITY	SERVICE	LOCATION	TYPE	GPM	TOTAL DYNAM. HEAD FEET	MIN. DESIGN WORKING PRESS. P.S.I.G.	MODEL NO.	FRAME SIZE	IMP. DIAM. IN.	MIN. N.P.S.H. REQ. FEET	EFFICIENCY	MOTOR BHP	MOTOR HP	MOTOR RPM	MOTOR V/Ph/Hz	VIBR. ISOL. SPEC. TYPE	MIN. STATIC DEFL. INCHES	OPERATING WEIGHT (LBS.)	VFC	REMARKS
FPP-C-1	1	AC-C-11	CELLAR	INLINE	71	28	175														
FPP-C-2	1	HC-C-2	CELLAR	INLINE	15	28	175														
FPP-C-3	1	HV-C-1	CELLAR	INLINE	75	28	175														
FPP-3-1	1	AC-CS-3-1	3RD FL MER	INLINE	75	28	175														
FPP-3-2	1	AC-CS-3-2	3RD FL MER	INLINE	75	28	175														
FPP-4-1	1	AC-4-1	4th FL MER	INLINE	39	28	175	1 1/2 X 1 1/2 X 6 1/4	_	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-4-2	1	AC-4-2	4th FL MER	INLINE	62	28	175	1 1/2 X 1 1/2 X 6 1/4	_	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-4-3	1	AC-4-3	4th FL MER	INLINE	62	28	175	1 1/2 X 1 1/2 X 6 1/4	_	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-4-4	1	AC-4-4	4th FL MER	INLINE	144	28	175	1 1/2 X 1 1/2 X 6 1/4	_	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-4-5	1	AC-CS-4-1	4th FL MER	INLINE	144	28	175														
FPP-4-6	1	AC-CS-4-2	4th FL MER	INLINE	90	28	175														
FPP-36-1	1	AC-36-1	36th FL MER	INLINE	90	28	175	2 X2 6 1/4	_	6.22	4.3	65%	1.1	1.5	1750	208/1/60	SPEC	2	35	NO	
FPP-36-2	1	AC-36-2	36th FL MER	INLINE	78	28	175														
FPP-36-3	1	AC-36-3	36th FL MER	INLINE	118	28	175														
FPP-36-4	1	AC-36-4	36th FL MER	INLINE	78	28	175														
FPP-36-5	1	AC-CS-36-5	36th FL MER	INLINE	90	28	175														
FPP-36-6	1	AC-CS-36-6	36th FL MER	INLINE	90	28	175														
FPP-67-1	1	AC-67-1	67th FL MER	INLINE	96	28	175														
FPP-67-2	1	AC-67-2	67th FL MER	INLINE	118	28	175														
FPP-67-3	1	AC-CS-67-1	67th FL MER	INLINE	90	28	175														
FPP-67-4	1	AC-CS-67-2	67th FL MER	INLINE	90	28	175														

CABINET & UNIT HEATER SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	TYPE	AIR QTY (CFM)	AIR TEMP (°F) ENT.	AIR TEMP (°F) LVG.	TOTAL CAPACITY (MBH)	HOT WATER TEMP (°F) ENT.	HOT WATER TEMP (°F) LVG.	HOT WATER GPM	HOT WATER WATER PD(FT)	ELECTRIC KW	FAN MOTOR HP	Volts/Ph/Hz	MANUFACTURER & MODEL NO.	REMARKS
UH-A	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	400	60	95	15.0	180	150	2.5	2.2	–	16W	120/1/60	STERLING HS-118A	HORIZONTAL UNIT HEATER
UH-B	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	450	60	95	21.2	180	150	4.7	2.2	–	25W	120/1/60	STERLING HS-125A	HORIZONTAL UNIT HEATER
CUH-1-1&2	SEE PLANS	SEE PLANS	WALL RECESSED	1040	60	95	100	180	150	10	10.18	–	1/10	120/1/60	STERLING RW1-1130-10	WALL CABINET HEATER
CUH-1-3&4&5	SEE PLANS	SEE PLANS	CEILING MOUNTED	420	60	95	45	180	150	4.0	1.4	–	1/15	120/1/60	STERLING RC-1200-04	CEILING CABINET HEATER
CUH-1-6&7	SEE PLANS	SEE PLANS	WALL RECESSED	420	30	130	45	180	150	4.0	1.4	–	1/15	120/1/60	STERLING RW1-1130-04	WALL CABINET HEATER
EUH-A	SEE PLANS	SEE PLANS	CEILING UNIT HEATERS	600	--	--	17.00	--	--	--	--	5	--	208/3/60	MARKEL J3475A1	
EUH-B	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	400	--	--	17.10	--	--	--	--	5	--	208/3/60	MARKEL F2FUH05C03	
EUH-C	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	400	--	--	11.20	--	--	--	--	3	--	208/3/60	MARKEL F2FUH03C03	
WH	SEE PLANS	SEE PLANS	WALL MOUNT	100	60	95	4.0	–	–	–	–	1.2	5.8 AMPS	208/1/60	COM-PAK MAX CM162T	WITH THERMOSTAT DIM. 9"Hx12"Wx4"D

NOTES
1. UNIT HEATER TO BE MOUNTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS.
2. PROVIDE FAN GUARDS, HORIZONTAL AND VERTICAL AIR DEFLECTION LOUVERS AND WALL THERMOSTAT FOR EACH UNIT HEATER.
3. PROVIDE BLEED PORTS ON ALL CONTROL VALVES
4. PROVIDE (BY MANUFACTURER) UNIT-MOUNTED THERMOSTAT AND FAN VALVE CYCLING CONTROLS.
5. ALL FAN MOTORS ARE LESS THAN 5 HP.

TABLE 503.2.8 MINIMUM PIPE INSULATION[a,b] (thickness in inches)

FLUID	NOMINAL PIPE DIAMETER 1" TO 1.5"	1.5" TO 4"	4" TO 8"
	INSULATION THICKNESS (IN)		
CONDENSER WATER	1	1.5	1.5
CONDENSATE DRAIN	1	1.5	1.5
HOT WATER	1 1/2	2	2
CHILLED WATER, BRINE OR REFRIGERANT	1 1/2		

TABLE 503.2.8 MINIMUM PIPE INSULATION[a,b] (thickness in inches)

FLUID	NOMINAL PIPE DIAMETER ≤ 1.5"	>1.5"
STEAM	1 1/2	3
HOT WATER	1 1/2	2
CHILLED WATER, BRINE OR REFRIGERANT	1 1/2	1 1/2

TABLE[4] 6.8.2B MINIMUM DUCT INSULATION R-VALUE

COMBINED HEATING AND COOLING SUPPLY DUCTS AND RETURNS

CLIMATE ZONE	R-VALUE
	R-6

FINNED-TUBE RADIATION SCHEDULE

AS STANDARD

SYMBOL	LOCATION	SERVICE	BTUH/LF	E.W.T. (°F)	L.W.T. (°F)	ELEMENT LENGTH	ELEMENT SIZE	ELEMENT PER FT.	ELEMENT MAT.	ELEMENT ROWS	PIPE SIZE	PIPE MAT.	ENCLOSURE HGT.	ENCLOSURE DEPTH	ENCLOSURE TYPE	ENCLOSURE COLOR	MODEL NO	REMARKS
A FTR	1ST FLOOR	SEE DWG	1000	180	160	SEE DWG	4¼"x4¼"	40	AL	1	1"	COPPER	12"	8"	GALV. STEEL	BY ARCHITECT	PIBG5	PROVIDE BUILT IN THERMOSTAT
B FTR	TYP. FLOOR	SEE DWG	1000	180	160	SEE DWG	4¼"x4¼"	40	AL	1	1"	COPPER	12"	8"	GALV. STEEL	BY ARCHITECT	PIBG5	PROVIDE BUILT IN THERMOSTAT

CONSTANT FLOW REGULATOR SCHEDULE

LOCATION	SERVICE	CFM	CAR SIZE (DIA.)	MODEL NO.	MANUFACTURE
TOILET	EXHAUST	40	4"	SC-CFR-02	SPECIFIED CONTROL

AIR SEPARATOR SCHEDULE

AS STD.

UNIT NO.	SERVICE	LOCATION	LENGTH/ HEIGHT (IN)	DIAM. (IN)	ACCEPT CAPAC. (GPM)	WORK. PRESS. (PSIG)	OPERATING WEIGHT (LBS)	MANUFACTURER & MODEL NO.	REMARKS

EXPANSION TANK SCHEDULE

AS STD.

UNIT NO.	SERVICE	LOCATION	LENGTH/ HEIGHT (IN)	DIAM. (IN)	ACCEPT CAPAC. (GAL)	WORK. PRESS. (PSIG)	OPERATING WEIGHT (LBS)	MANUFACTURER & MODEL NO.	REMARKS
ET-4-1	SECONDARY WATER SYSTEM	4TH FL							
ET-4-2	SECONDARY WATER SYSTEM	4TH FL							
ET-4-3		4TH FL							
ET-36-1	SECONDARY WATER SYSTEM	36TH FL							
ET-67-1	SECONDARY WATER SYSTEM	67TH FL							
ET-67-2	SECONDARY WATER SYSTEM	67TH FL							

SAND FILTER SCHEDULE

UNIT No.	SERVICE	GPM	TDH	MAX. PSIG	AUTOMATIC BACKWASH DIFFERENTIAL PRESSURE,	ELECTRICAL DATA VOLTS	PH	HP	MANUFACTURER AND MODEL	DIMENSIONS L x W x H (IN)	OPERATING WEIGHT LBS(EA.)	REMARKS
FU-1	CONDENSER WATER	45	50	100	16	208	3	2	PEP HMF2-24-SS	63"x28"x63"	1,300	

NOTE:
1. PROVIDE 7-DAY CLOCK WITH A PUSH BUTTON OVERRIDE
2. PROVIDE NFS GRADE UNIMEDIA HIGH EFFICIENCY MEDIA PACK.
3. ISOLATION RAILS W/SPRING TYPE VIBRATION ISOLATORS
4. ALL SYSTEM COMPONENTS ARE PRE-PIPED, FACTORY TESTED AND SKID MOUNTED ON A 304 STAINLESS STEEL C4 CHANNEL BASE.
5. START UP AND COMMISSIONING BY EQUIPMENT MANUFACTURER.

ELECTRICAL BASEBOARD SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	TYPE	E.A.T. (F)	L.A.T. (F)	WATT/ LIN.FT.	LENGTH FT	NO. OF STAGES	V/Ph/Hz	MFR. & MODEL NO.	REMARKS
EFT-A	SEE PLANS	SEE PLANS	RADIUS FRONT DRAFT BARRIER HEATER	45	82	145	4'-0"	1	120/1/60	MARKEL 9100 SERIES	BUILT IN THERMOSTAT & DISCONN. SWITCH

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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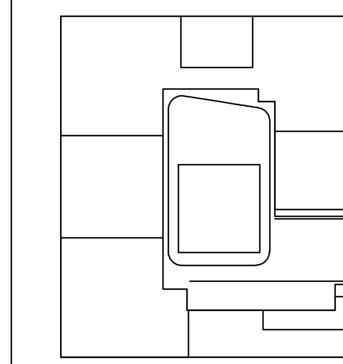
DEPT OF BLDGS 420655954 Job Number
ES932057863 Scan Code



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
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New York, NY 10121
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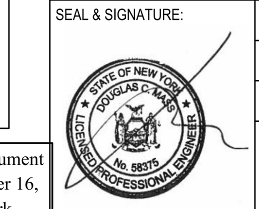
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
SCHEDULES SHEET-3

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-402.00
DWG NO.
OFOF

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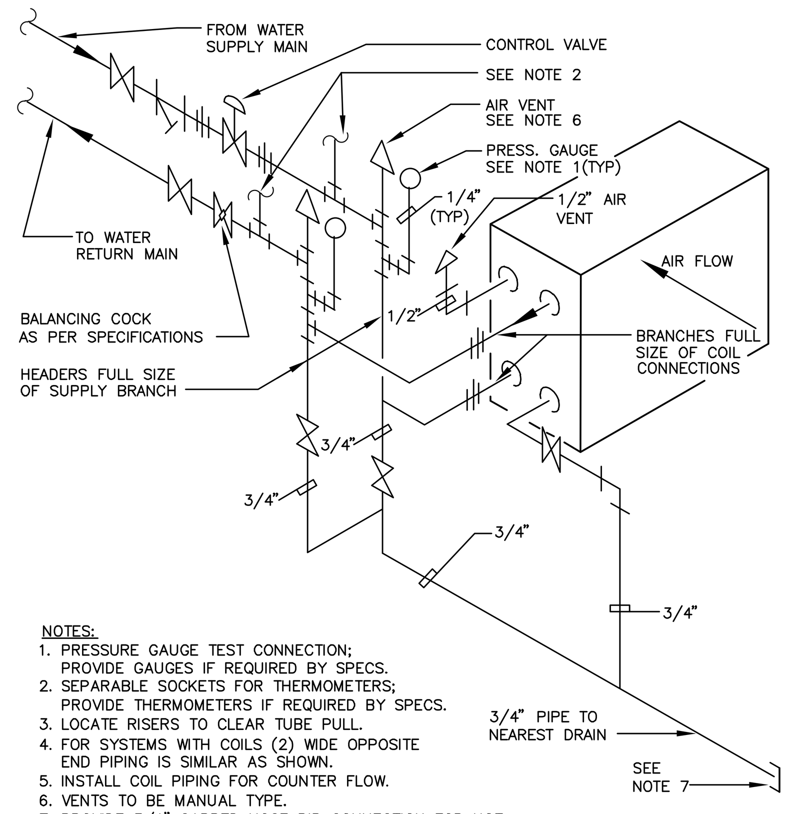
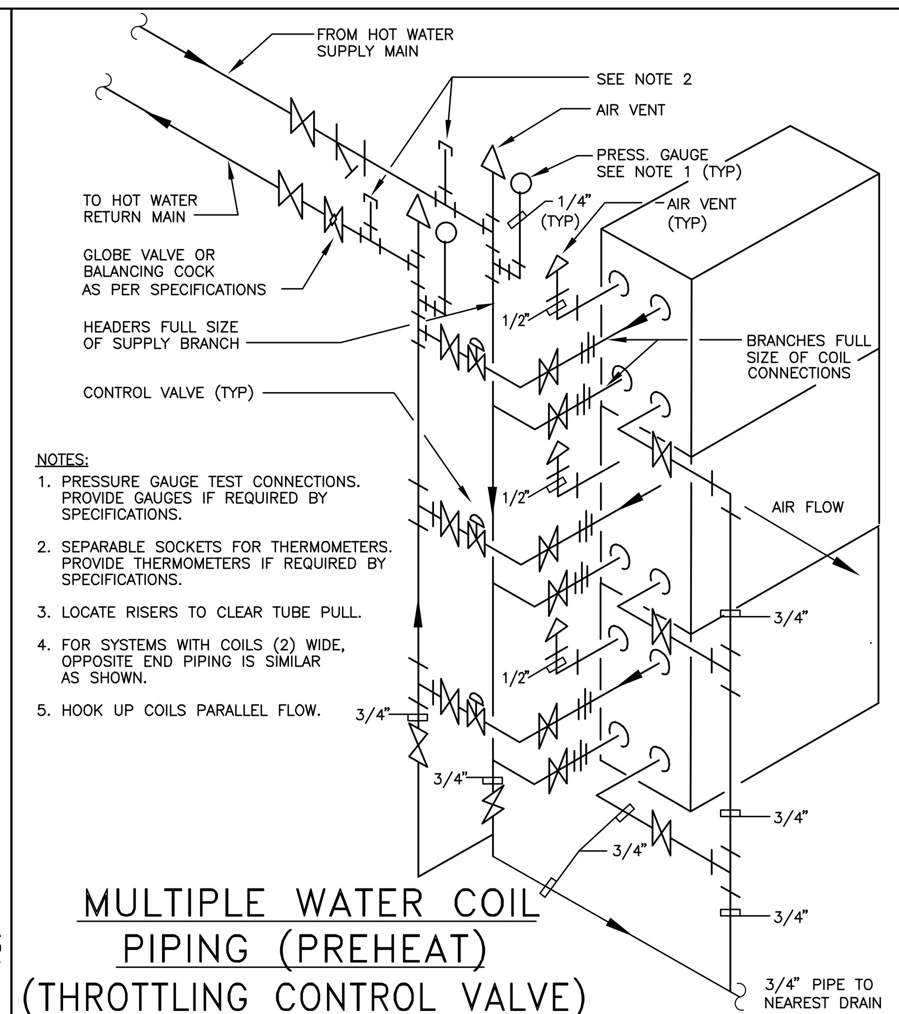


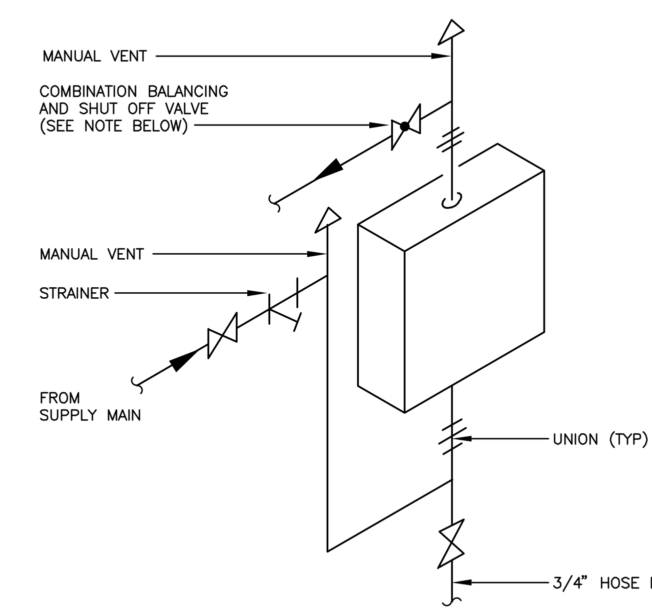
NOTES:
1. PRESSURE GAUGE TEST CONNECTION; PROVIDE GAUGES IF REQUIRED BY SPECS.
2. SEPARABLE SOCKETS FOR THERMOMETERS; PROVIDE THERMOMETERS IF REQUIRED BY SPECS.
3. LOCATE RISERS TO CLEAR TUBE PULL.
4. FOR SYSTEMS WITH COILS (2) WIDE OPPOSITE END PIPING IS SIMILAR AS SHOWN.
5. INSTALL COIL PIPING FOR COUNTER FLOW.
6. VENTS TO BE MANUAL TYPE.
7. PROVIDE 3/4" CAPPED HOSE BIB CONNECTION FOR HOT WATER COILS ONLY THAT ARE LOCATED ABOVE HUNG CEILING.
8. PROVIDE GALVANIZED STEEL DRAIN PAN UNDER ALL COOLING COILS SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.

ONE HIGH VERT. WATER COIL PIPING (THROTTLING CONTROL VALVE)



NOTES:
1. PRESSURE GAUGE TEST CONNECTIONS. PROVIDE GAUGES IF REQUIRED BY SPECIFICATIONS.
2. SEPARABLE SOCKETS FOR THERMOMETERS. PROVIDE THERMOMETERS IF REQUIRED BY SPECIFICATIONS.
3. LOCATE RISERS TO CLEAR TUBE PULL.
4. FOR SYSTEMS WITH COILS (2) WIDE, OPPOSITE END PIPING IS SIMILAR AS SHOWN.
5. HOOK UP COILS PARALLEL FLOW.

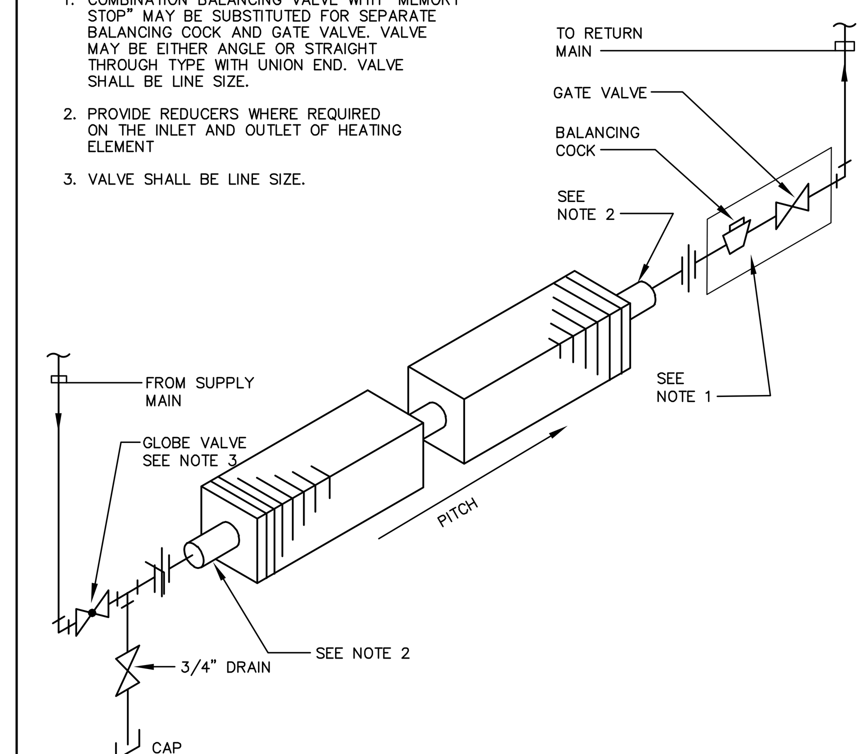
MULTIPLE WATER COIL PIPING (PREHEAT) (THROTTLING CONTROL VALVE)



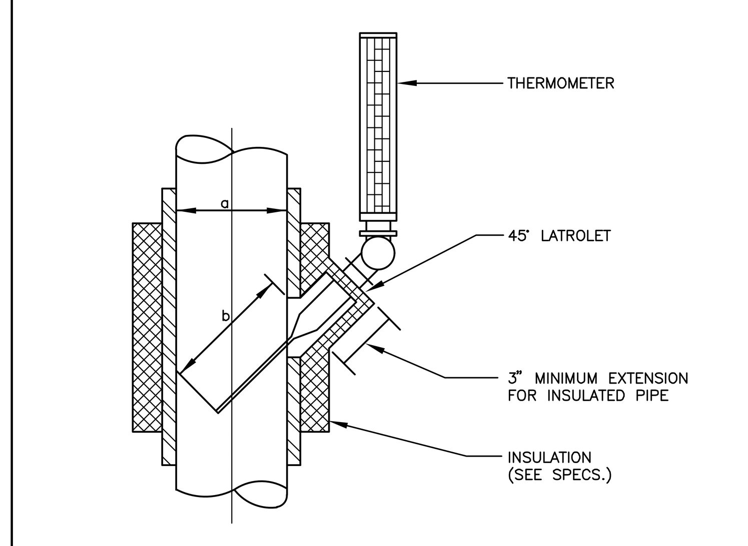
NOTE:
COMBINATION BALANCING VALVE WITH "MEMORY STOP" MAY BE SUBSTITUTED FOR SEPARATE BALANCING VALVE AND GATE VALVE.

UNIT HEATER HOT WATER PIPING

NOTES
1. COMBINATION BALANCING VALVE WITH "MEMORY STOP" MAY BE SUBSTITUTED FOR SEPARATE BALANCING COCK AND GATE VALVE. VALVE MAY BE EITHER ANGLE OR STRAIGHT THROUGH TYPE WITH UNION END. VALVE SHALL BE LINE SIZE.
2. PROVIDE REDUCERS WHERE REQUIRED ON THE INLET AND OUTLET OF HEATING ELEMENT
3. VALVE SHALL BE LINE SIZE.



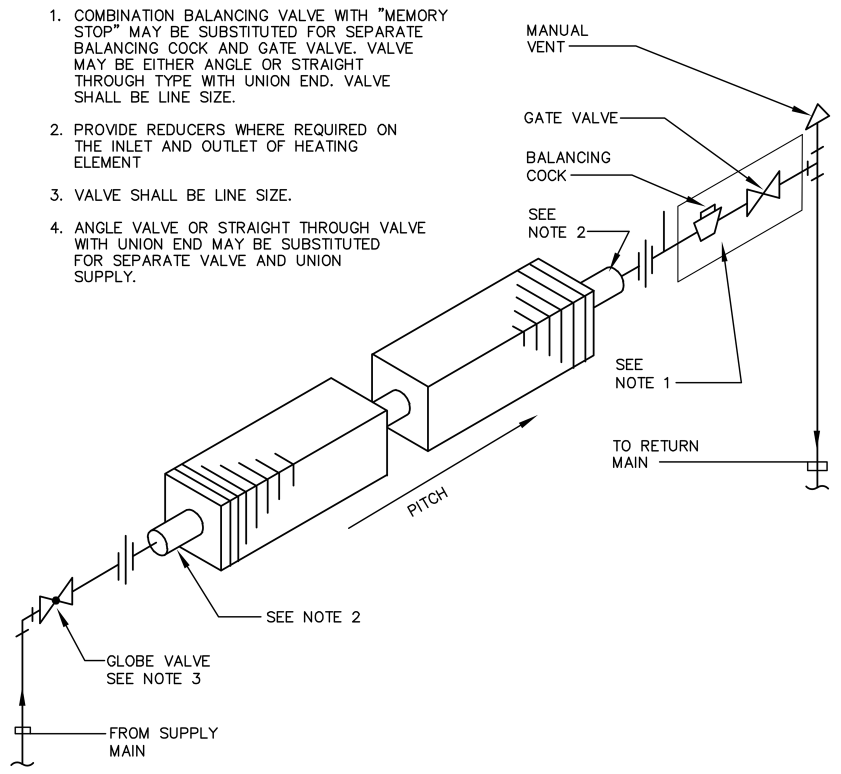
ONE (1) HIGH HOT WATER FIN TUBE RADIATION DOWN FEED PIPING



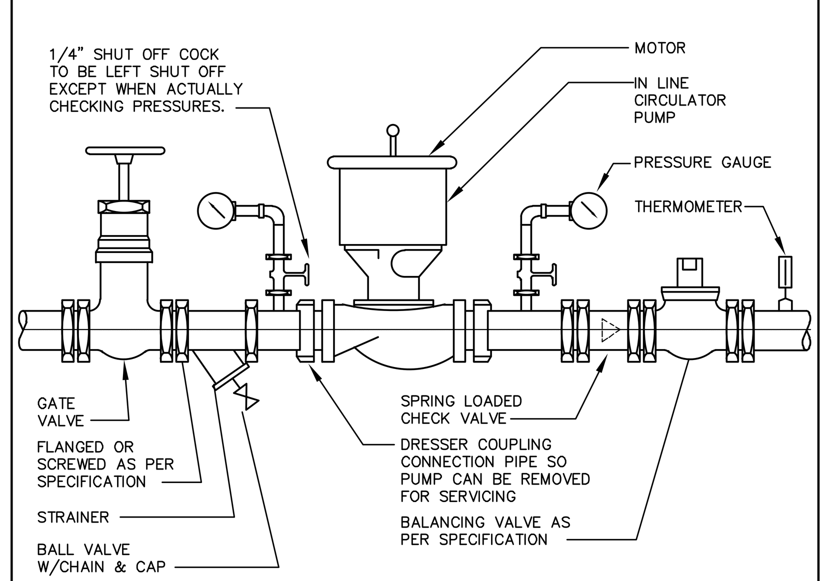
INSERTION LENGTH SCHEDULE	
a = PIPE DIAMETER	b = INSERTION LENGTH
UP TO 6"	6"
8" AND 10"	8"
12" AND LARGER	14"

THERMOMETER WELL LOCATED IN VERTICAL PIPE

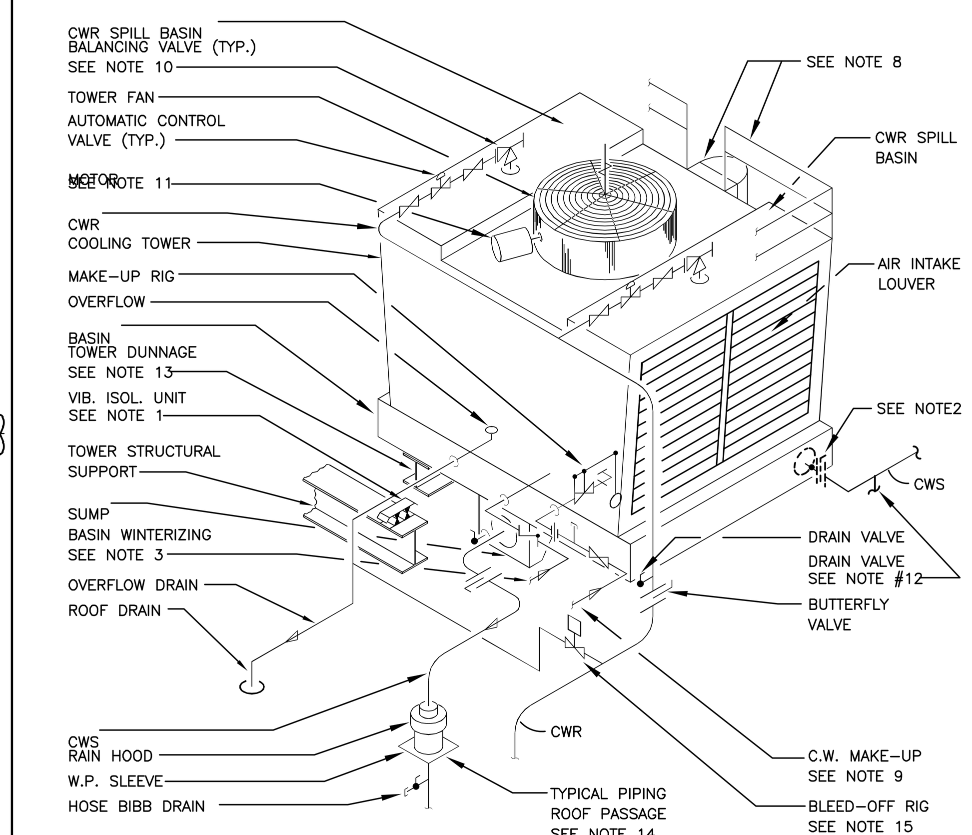
NOTES
1. COMBINATION BALANCING VALVE WITH "MEMORY STOP" MAY BE SUBSTITUTED FOR SEPARATE BALANCING COCK AND GATE VALVE. VALVE MAY BE EITHER ANGLE OR STRAIGHT THROUGH TYPE WITH UNION END. VALVE SHALL BE LINE SIZE.
2. PROVIDE REDUCERS WHERE REQUIRED ON THE INLET AND OUTLET OF HEATING ELEMENT
3. VALVE SHALL BE LINE SIZE.
4. ANGLE VALVE OR STRAIGHT THROUGH VALVE WITH UNION END MAY BE SUBSTITUTED FOR SEPARATE VALVE AND UNION SUPPLY.



ONE (1) HIGH HOT WATER FIN TUBE RADIATION UP FEED PIPING

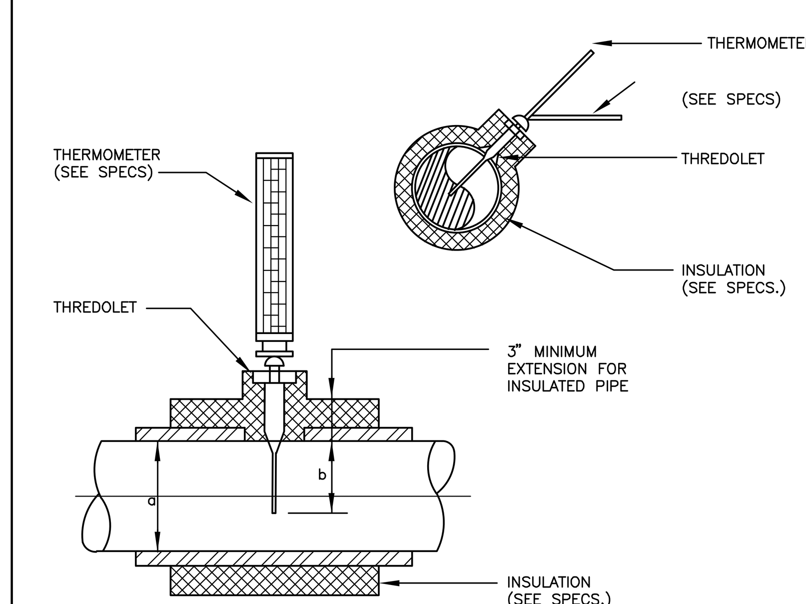


IN-LINE PUMP DETAIL



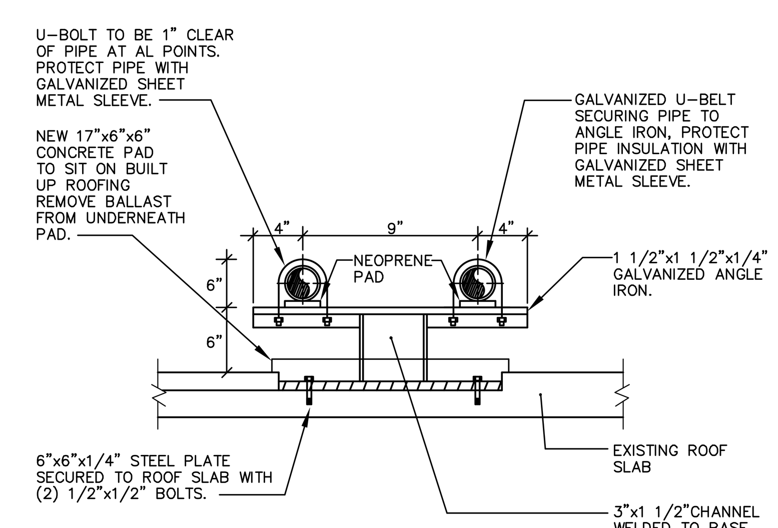
NOTES:
1. PROVIDE VIBRATION ISOLATION UNITS AS SPECIFIED.
2. FOR MULTI-CELL TOWER PROVIDE FULL SIZE EQUALIZING LINE WITH AUTOMATIC ISOLATION VALVE FOR EACH CELL.
3. PROVIDE BASIN FREEZE PROTECTION AS SPECIFIED,
4. PROVIDE STAINLESS STEEL SUMP SCREEN OR VORTEX PLATE (WITH TOWER).
5. SEE SPEC. FOR TWO SPEED FAN WIRING, VIB. LIMIT SWITCH ETC.
6. PIPING ABOVE ROOF CAN BE INSTALLED WITH "VICTAULIC" COUPLINGS (USE SPEC. PIPE SCH.).
7. FOR ROOF PIPING WINTERIZING SEE SPEC.
8. PROVIDE PERIMETER RAILING, LADDER AND SAFETY CAGE AS PER OSHA.
9. MAKE-UP WATER RUN OUT TO HAVE A BACKFLOW PREVENTER "WATTS" # 909 (OR EQUAL) PLUS VALVE, STRAINER ETC. (AS REQUIRED)
10. BALANCING VALVES BY TOWER VENDOR.
11. KEEP ACCESS TO MOTOR CLEAR OF PIPING FOR MOTOR REMOVAL.
12. DRAIN VALVES @ ALL LOW POINTS TO BE PIPED WITH SHORT NIPPLE AND INCORPORATED INTO WEATHERPROOF INSULATION (IF APPLIED, SEE SPEC.).
13. TOWER DUNNAGE TO SUIT TOWER DATA (FOR LOAD & LOCATION). FOR TOWER DUNNAGE, SEE STRUCTURAL DRAWINGS.
14. ALL ROOF PASSAGE OF PIPING TO BE PROVIDED WITH W.P. SLEEVE (TO BE WATERPROOFED & FLASHED BY ROOFER) AND RAIN HOOD, SLEEVE TO EXTEND 12" ABOVE ROOFING.
15. BLEED-OFF RIG. SOLENOID, VALVES, STRAINER AND UNIONS, PLUS WIRING ALL IN HVAC DIVISION. (SEE WATER TREATMENT ITEM IN SPEC.)
16. PROVIDE TAPPING IN PIPING (COUPLINGS) AT LOCATION & SIZE REQUIRED BY TEMP. CONTROL CONTRACTOR.
17. ALL PIPING ON ROOF LEVEL (EXPOSED TO AMBIENT CONDITIONS) TO BE HEAT TRACED.
18. PROVIDE BUTTERFLY VALVE IN ADDITION TO BALANCING VALVE.

COOLING TOWER PIPING DETAIL

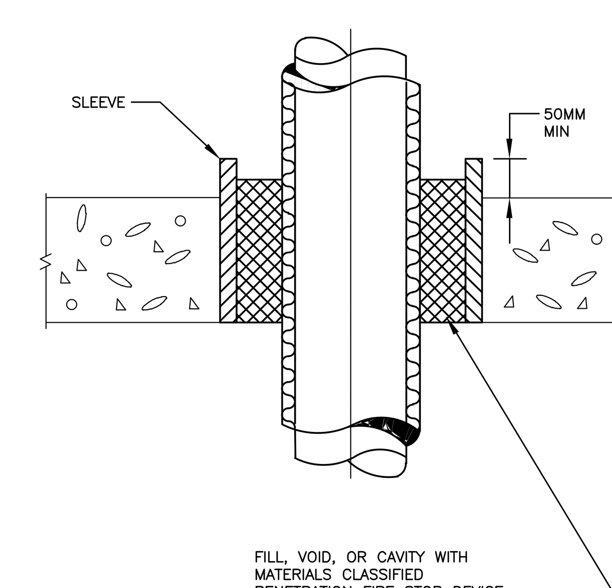


INSERTION LENGTH SCHEDULE	
a = PIPE DIAMETER	b = INSERTION LENGTH
UP TO 4"	3"
6" TO 8"	6"
10" AND LARGER	8"

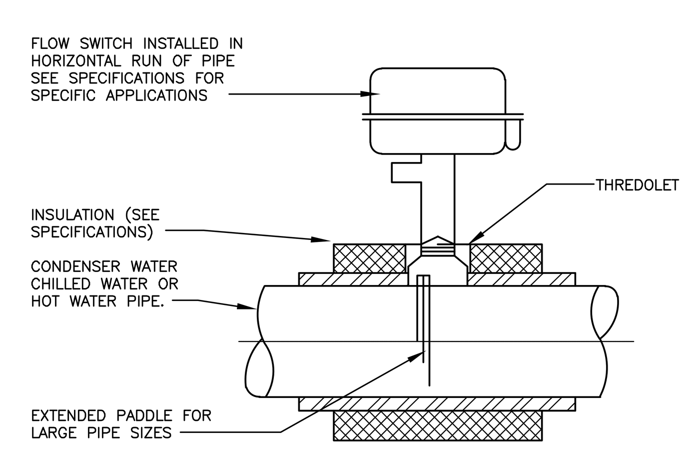
THERMOMETER WELL LOCATED IN HORIZONTAL PIPE



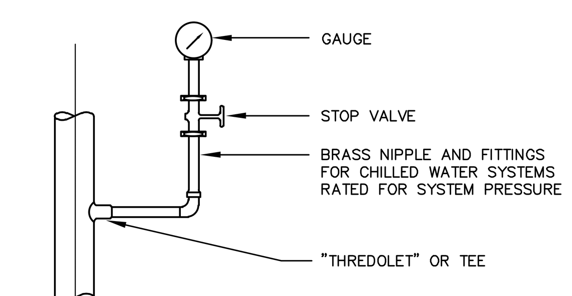
PIPES SUPPORT ON ROOF DETAIL



TYPICAL PIPE AND/OR CONDUIT FLOOR PENETRATION

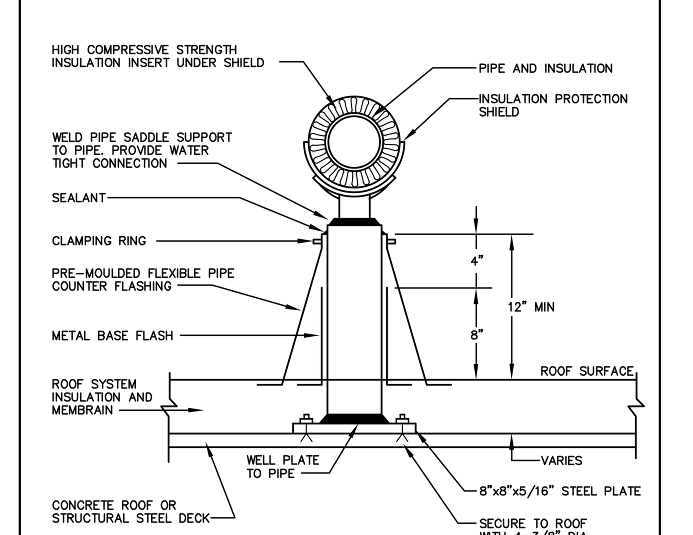


FLOW SWITCH DETAIL

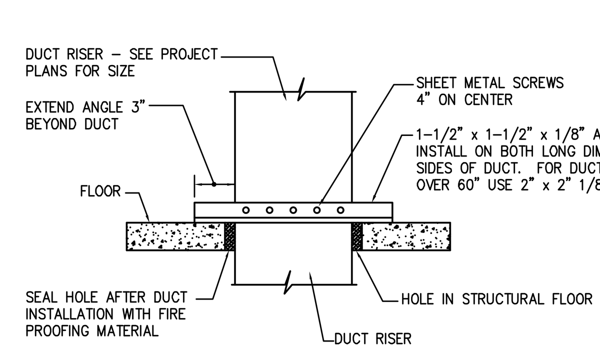


NOTE:
HEATING WATERS AND CONDENSER WATER SYSTEMS SHALL USE STEEL NIPPLES AND FITTINGS.

TYPICAL GAUGE PIPING DETAIL

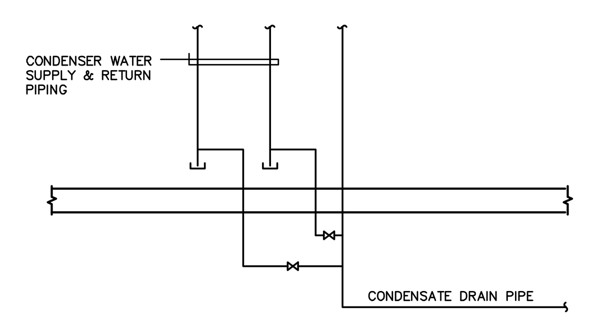


PIPE SUPPORT ON ROOF DETAIL



NOTES:
1. ALL DUCTWORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THROUGH MEZZANINE FLOORS AND FAN ROOM FLOORS, SHALL BE PROVIDED WITH A 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.
2. LOW PRESSURE DUCTWORK SHALL INCLIDE DUCTWORK OPERATING AT 2 INCHES W.G. OR LESS.

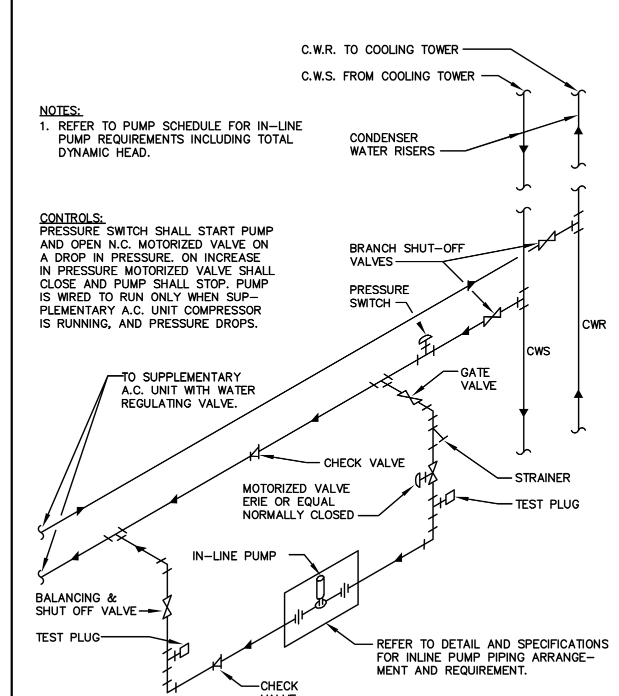
LOW PRESSURE DUCT RISER SUPPORT



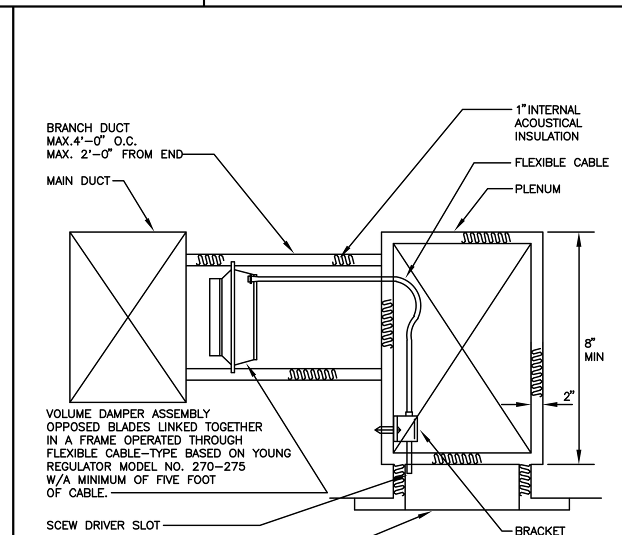
DETAIL OF SCWS&R DRAINS AT BOTTOM OF EACH RISER

NOTES:
1. REFER TO PUMP SCHEDULE FOR IN-LINE PUMP REQUIREMENTS INCLUDING TOTAL DYNAMIC HEAD.

CONTROLS:
PRESSURE SWITCH SHALL START PUMP AND OPEN N.C. MOTORIZED VALVE ON A DROP IN PRESSURE. ON INCREASE IN PRESSURE MOTORIZED VALVE SHALL CLOSE AND PUMP SHALL STOP. PUMP IS WIRED TO RUN ONLY WHEN SUPPLEMENTARY A.C. UNIT COMPRESSOR IS RUNNING, AND PRESSURE DROPS.

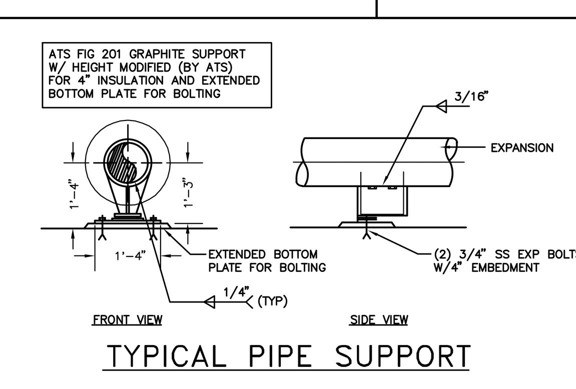


INLINE PUMP WITH BY-PASS SYSTEM

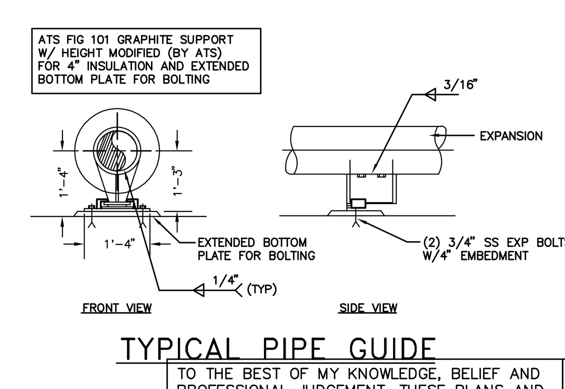


NOTE:
TYPICAL BRANCH DUCT TO BE MIN. 6"x6" UNLESS NOTED.

LINEAR DIFFUSER DETAIL



TYPICAL PIPE SUPPORT



TYPICAL PIPE GUIDE

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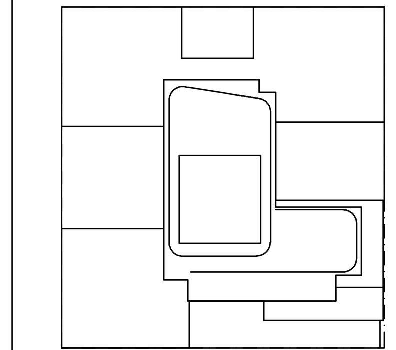

KEY PLAN

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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
DETAIL SHEET NO.1

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-500.00
DWG NO.
OF

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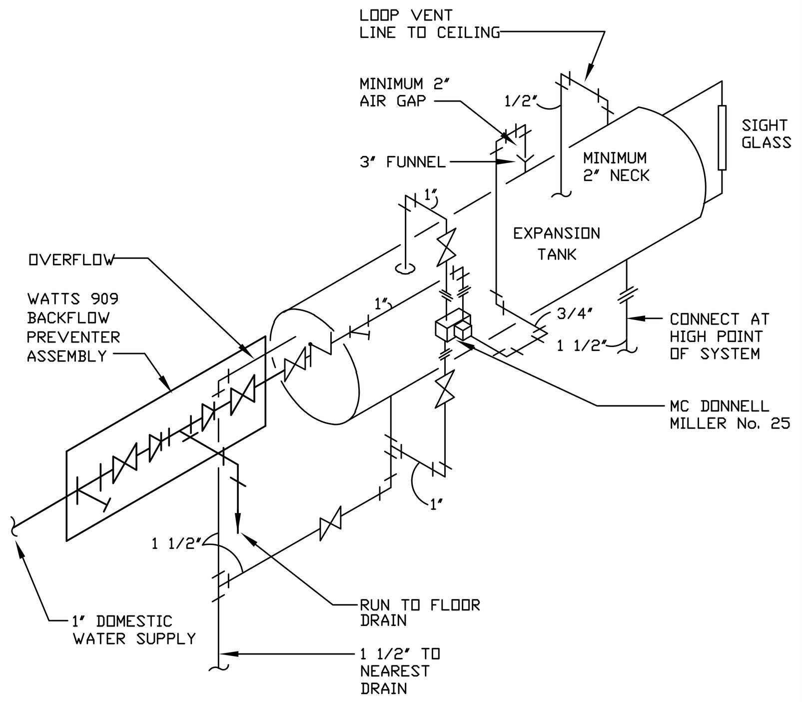
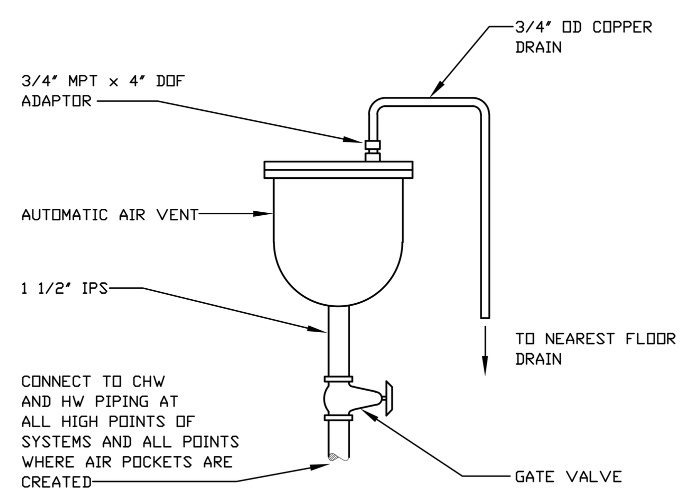
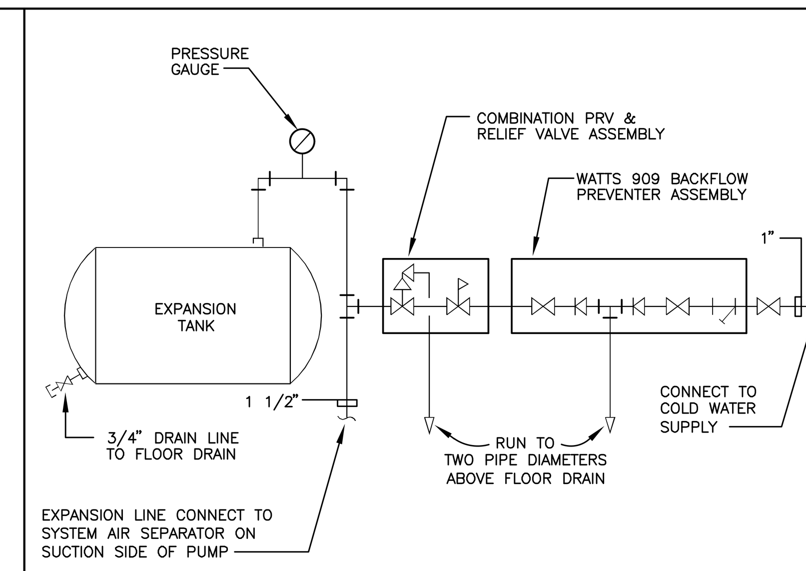


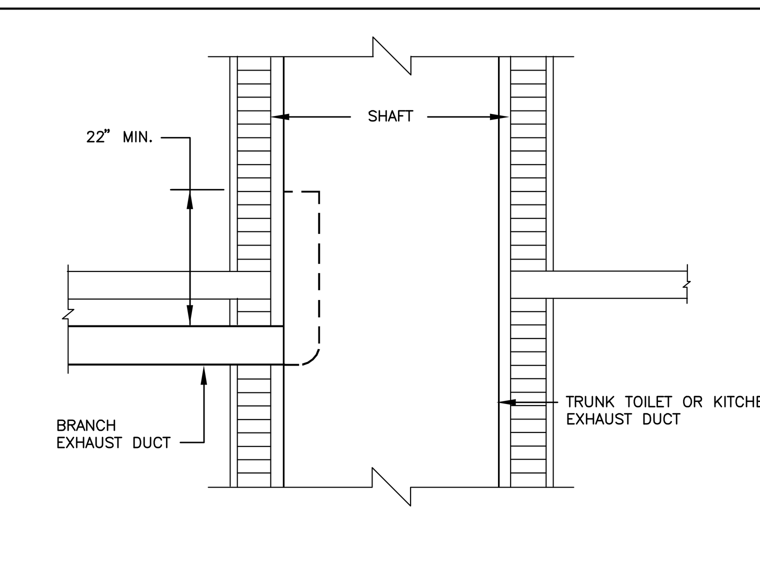
OPEN WATER EXPANSION TANK PIPING



AUTOMATIC AIR VENT DETAIL



DIAPHRAGM TYPE EXPANSION TANK DETAIL



NOTE:
A) BOOT CONNECTIONS SHALL MEET ALL APPLICABLE CODE REQUIREMENTS.
B) EXHAUST FAN MUST RUN 24/7

TOILET OR KITCHEN EXHAUST BOOT CONNECTION DETAIL IN LIEU OF FIRE DAMPER

NOTES
1. COMBINATION BALANCING VALVE WITH "MEMORY STOP" MAY BE SUBSTITUTED FOR SEPARATE BALANCING COCK AND GATE VALVE. VALVE MAY BE EITHER ANGLE OR STRAIGHT THROUGH TYPE WITH UNION END. VALVE SHALL BE LINE SIZE.
2. PROVIDE REDUCERS WHERE REQUIRED ON THE INLET AND OUTLET OF HEATING ELEMENT
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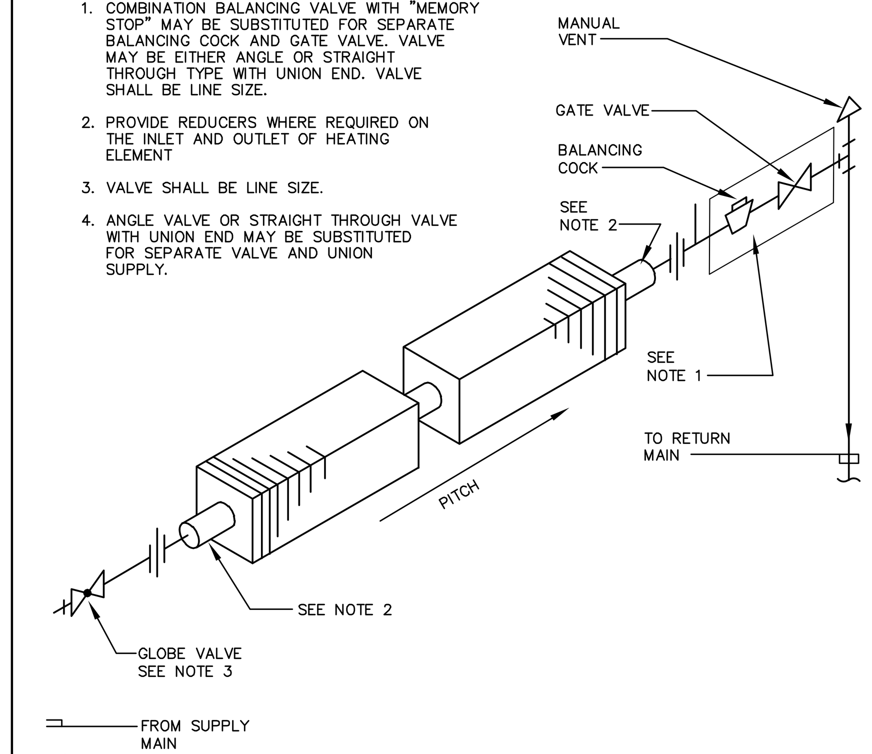
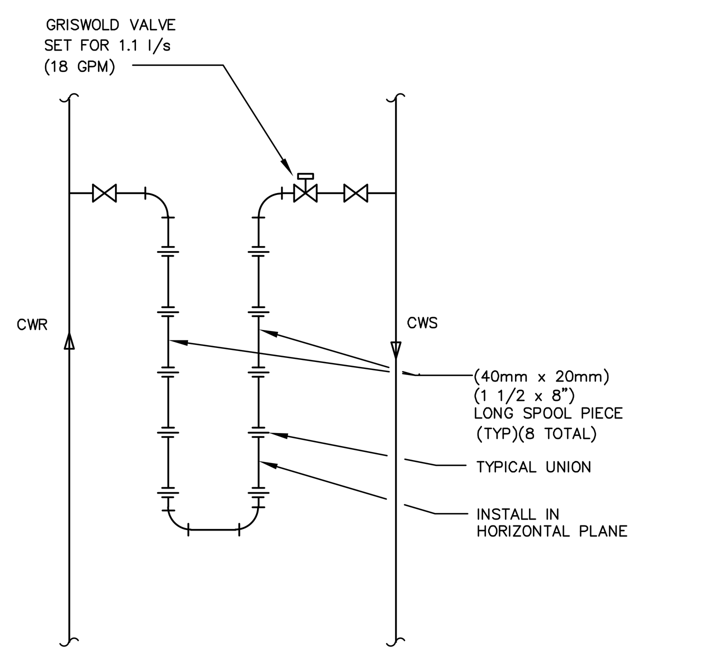
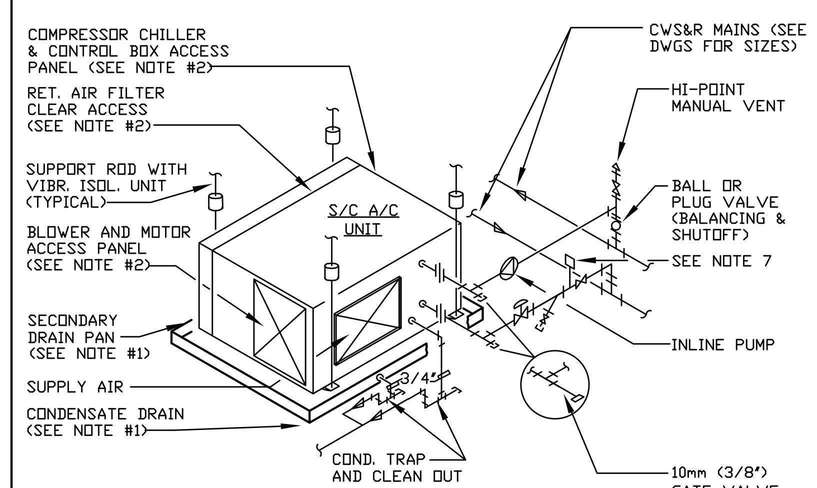


ONE (1) HIGH HOT WATER FIN TUBE RADIATION UP FEED PIPING



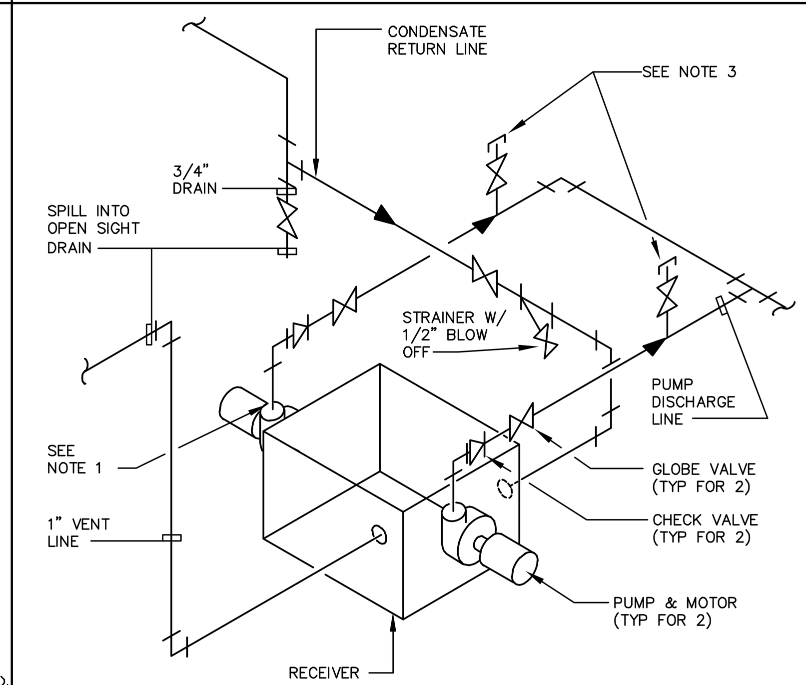
NOTE: LOCATE SPOOL PIECE ASSEMBLY AT LOW POINT OF THE SYSTEM

DETAIL OF CONDENSER WATER CORROSION TESTING SPOOL PIECES



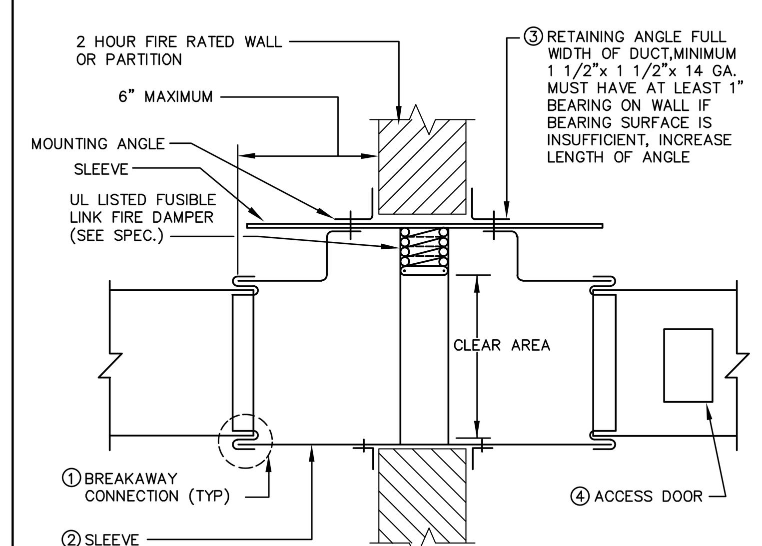
NOTES
1. UNIT TO BE INSTALLED AT ELEVATION SO AS TO PERMIT GRAVITY DRAIN FROM CONDENSATE PAN AND SECONDARY DRAIN PAN TRAPS (ABOVE HUNG CEILING) TO BUILDING DRAIN. IF LEAK DETECTOR INSTALLED IN SECONDARY DRAIN PAN- IT SHALL WIRED TO SHUT-OFF THE UNIT. FOR CONDENSATE DRAIN PIPING RUNS REFER TO PLANS.
2. UNIT SHALL BE LOCATED SO THAT ACCESS IS CLEAR TO FILTERS AND ACCESS PANELS.
3. PROVIDE A 2-WAY REGULATING VALVE VALVE SHALL HAVE MAXIMUM P=(5 PSIG).
4. UNIT SHALL BE STRAIGHT COOLING UNLESS OTHERWISE SPECIFIED OR SCHEDULED.
5. SELECT VALVE PRESSURE RATING AS FOLLOWS;
   WHERE "X"= DISTANCE FROM UNIT INLET TO TOP OF SYSTEM
   125 PSIG - "X"= 0FT TO 160FT
   250 PSIG - "X"= 161FT TO 450FT
   300 PSIG - "X"= OVER 450FT
   OVER 300 PSIG - AS NECESSARY
6. PROVIDE ROOM STAT WITH SUB-BASE.
7. INLINE PUMP TO BE ELECTRICALLY INTERLOCKED WITH A/C UNIT.
8. SEE DETAILS AND SPECIFICATIONS FOR INLINE PUMP PIPING ARRANGEMENT AND REQUIREMENTS.
9. REFER TO PUMP SCHEDULE FOR PERFORMANCE REQUIREMENTS.

SUPPLEMENTARY SELF CONTAINED UNIT PIPING DETAIL



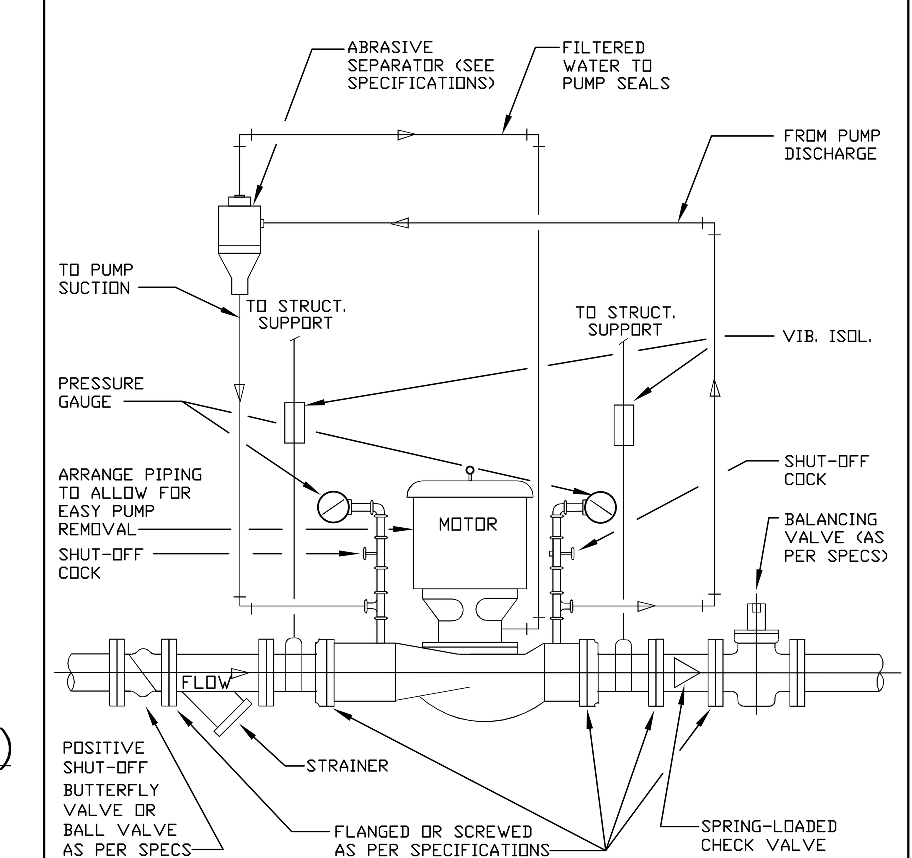
NOTES:
1. PROVIDE REDUCER AT EACH PUMP DISCHARGE WHERE REQUIRED. ALL VALVES SHALL BE LINE SIZE.
2. INSTALL ON 4" HIGH HOUSEKEEPING PAD.
3. PRESS AND TEMP TEST CONNECTION. (PETE'S PLUG)

DUPLEX CONDENSATE PUMP AND RECEIVER DETAIL



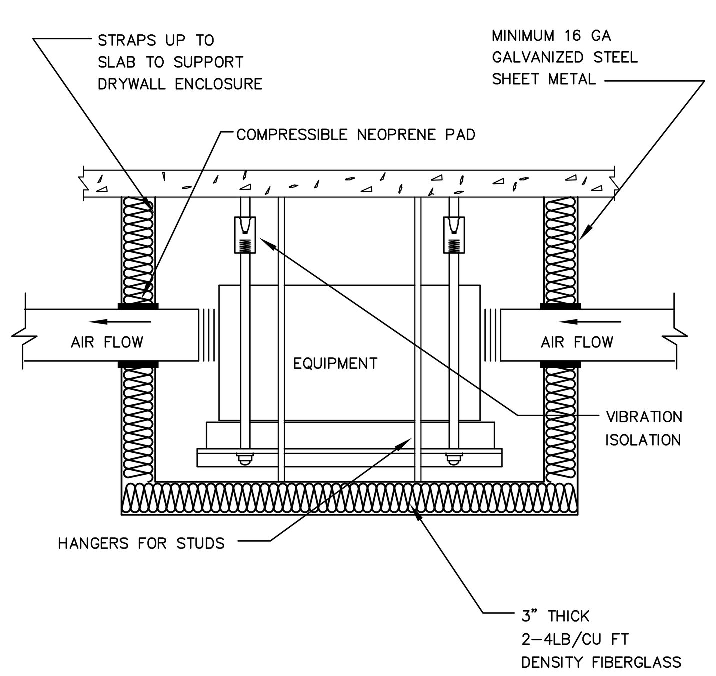
1 BREAKAWAY CONNECTION SHALL BE SIMILAR TO UL555 SEC. 14.4 APPROVED TYPES, AND NFPA 90A.
2 SLEEVE MAY BE DUCT GAUGE IF UL555 CONNECTIONS ARE USED. SLEEVE SHALL BE 16 GA. UP TO 36"Wx24"H OR 14 GA. FOR LARGER SIZES.
3 SHEET METAL CONTRACTOR SHALL FURNISH CONSTRUCTION CONTRACTOR WITH OPENING SIZES. ALL OPENINGS SHALL BE PACKED WITH SUITABLE FIRE RETARDANT MATERIAL.
4 ACCESS DOOR MUST BE LOCATED AS REQUIRED TO ENABLE RESETTING OF DAMPER. MORE THAN ONE DOOR MAY BE REQUIRED ON LARGE DUCTS.
5 DAMPER CLEAR OPEN AREA SHALL BE EQUAL TO INSIDE CLEAR DUCT DIMENSION OF CONNECTING DUCTS OR TRANSFER OPENING.
6 TYPE "B" OR "C" MOUNTING SHALL BE USED FOR ALL DAMPERS. TYPE "A" MOUNTING IS NOT PERMITTED.

AUTOMATIC FIRE DAMPERS (F.L.D.)

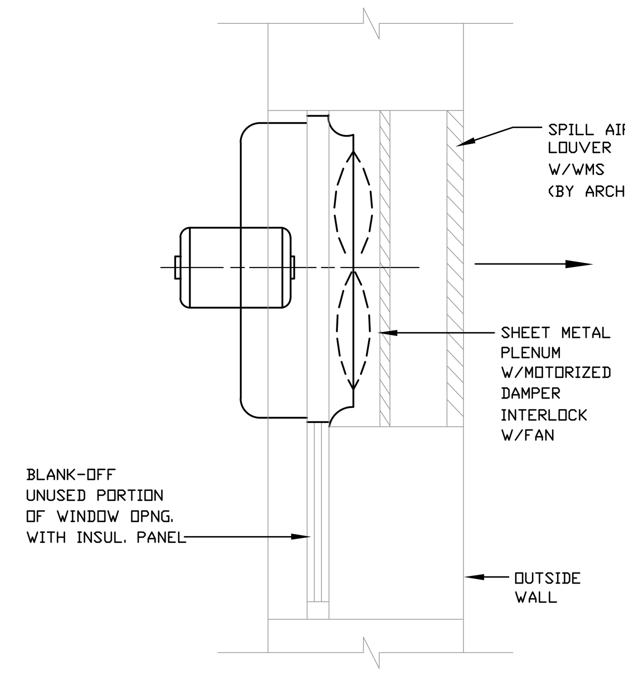


NOTES:
1. IF MOTOR IS IN HORIZONTAL POSITION PROVIDE SEPARATEHANGER FOR MOTOR.
2. PRESSURE GUAGE SHALL BE RATED FOR 150% OF WORKING PRESSURE.

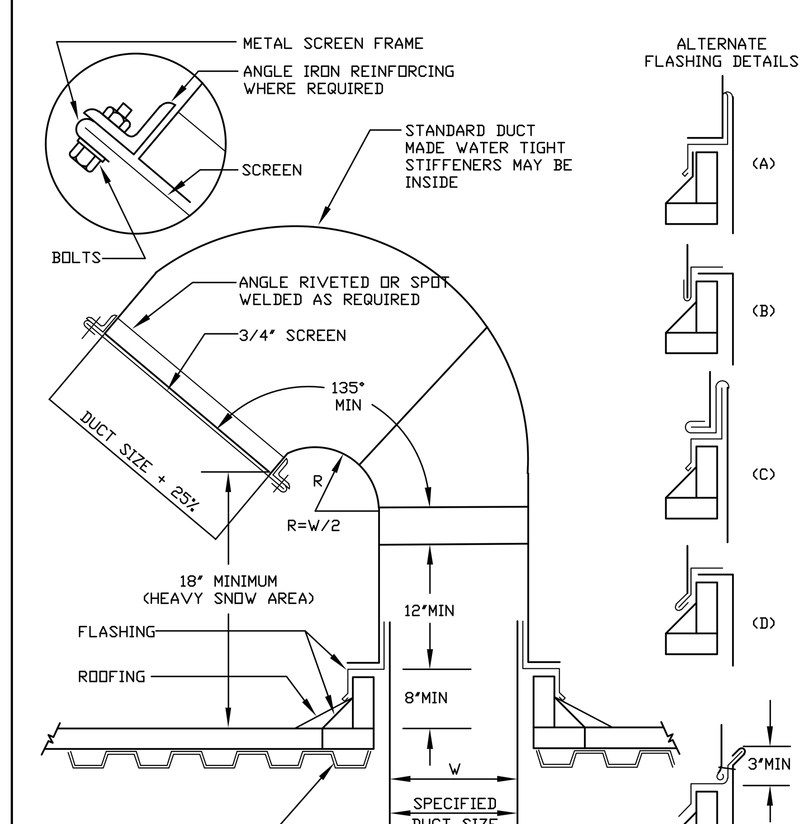
IN LINE PUMP DETAIL
(W/ABRASIVE SEPARATOR PIPING)



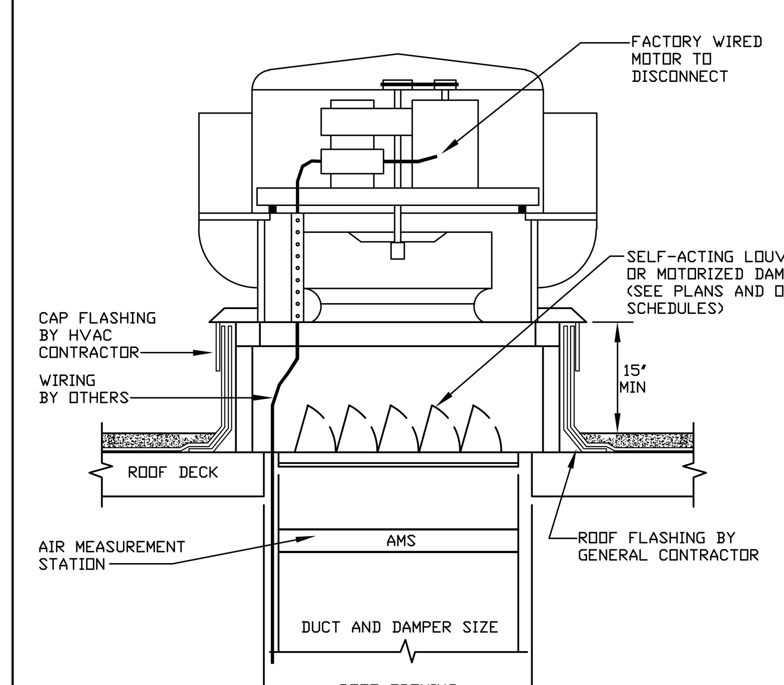
SOUND BARRIER ENCLOSURE FOR CEILING HUNG EQUIP



WALL MOUNTED PROPELLER FAN



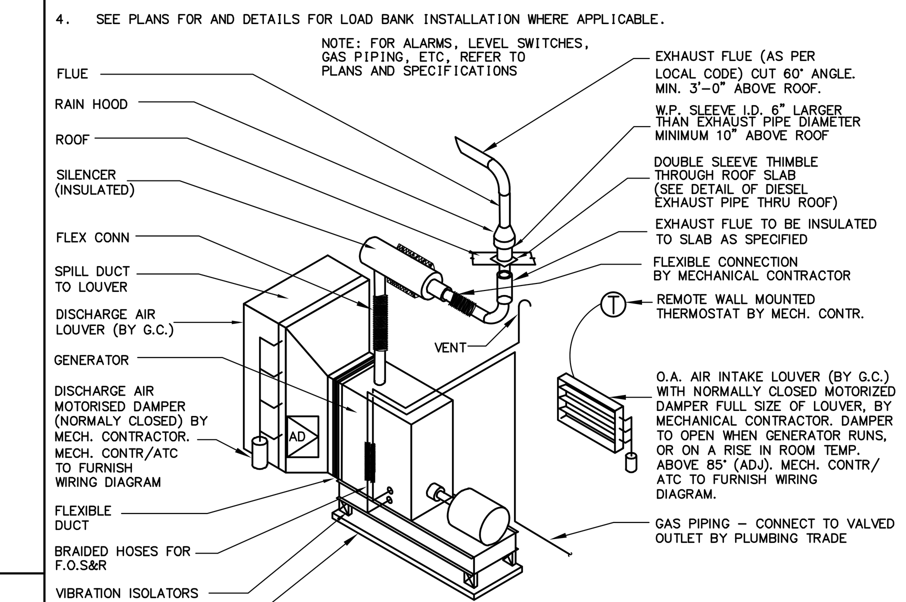
RECTANGULAR GOOSENECK
NO SCALE



NOTES:
1. DUCT SHALL BE 2?" SMALLER THAN ROOF OPENING.
2. ROOF OPENING SHALL CONFORM TO MANUFACTURERS CURB SIZE.

ROOF MOUNTED EXHAUST FAN DETAIL

NOTES:
1. GENERATOR UNIT AND CONTROLS AND WIRING LOCAL TO THE GENERATOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER ANOTHER DIVISION OF THIS WORK (SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS). SILENCER AND FLEXIBLE EXHAUST PIPE CONNECTIONS TO BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. ALL APPURTENANCES NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, INCLUDING EXHAUST THROUGH ROOF, DUCT CONNECTIONS TO RADIATOR, MAKEUP AIR AND EXHAUST LOUVERS, GAS PIPING, VENT PIPING, ETC. SEE DAY TANK DETAILS FOR ADDITIONAL REQUIREMENTS. SILENCER TO BE INSTALLED ON STEEL SADDLES.
1. EQUIPMENT AND PANEL LOCATIONS IN GENERATOR ROOM/VICINITY SHALL BE COORDINATED BY THE ELECTRICAL AND MECHANICAL CONTRACTORS TO RETAIN ACCESS FOR OPERATION, MAINTENANCE, AND CODE REQUIREMENTS.
3. GENERATOR MANUFACTURER & ELECTRICAL CONTRACTOR TO CHECK AND VERIFY THAT ALL EQUIPMENT, INCLUDING ITEMS DUCTED, WIRED, PIPED, ETC BY OTHERS, WILL SUIT THE SAFE OPERATION OF THE GENERATOR EQUIPMENT AT FULL LOAD, AND CONFIRM THIS IN WRITING WITH THE SHOP DRAWING SUBMITTALS.
4. SEE PLANS FOR AND DETAILS FOR LOAD BANK INSTALLATION WHERE APPLICABLE.



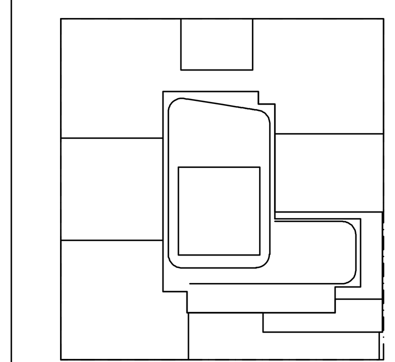
EMERGENCY GENERATOR SCHEMATIC DIAGRAM GAS FIRED, INDOOR INSTALLATION
(NOT TO SCALE)

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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

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

DEPT OF BLDGS 420655954 Job Number
ES877298516 Scan Code



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
DETAIL SHEET N0.2

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-501.00
DWG NO.
OF

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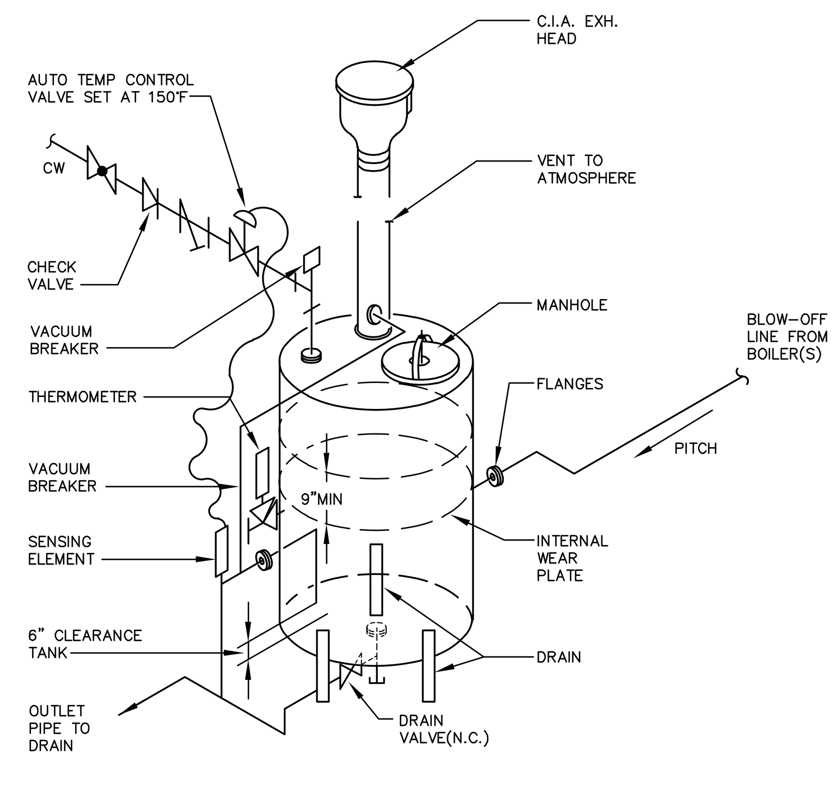
DEPT OF BLDGS 420655954 Job Number
ES494088974 Scan Code

TYPICAL BLOW DOWN SCHEDULE

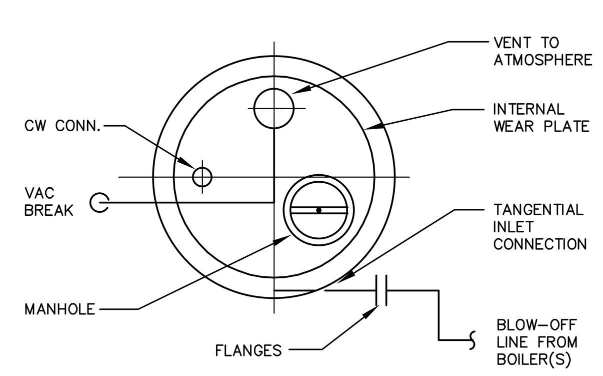
NOTES:
1. TANK SHALL BE BUILT IN ACCORDANCE WITH A.S.M.E. BOILER & PRESS VESSEL CODE.
2. MINIMUM HEAD @ SHELL THICKNESS SHALL BE 3/8" THICK.
3. BLOW-OFF PIPING BETWEEN BOILERS & TANK SHALL BE SCHEDULE 80 STEEL.

BLOW DOWN TANK SCHEDULE

CUMULATIVE INSTALLED BOILER HORSEPOWER	SIZE TANK	OUTLET INCHES	VENT INCHES
25 TO 75	30"DIAx48"HI	3"	3"
76 TO 150	36"DIAx54"HI	5"	4"
151 TO 250	36"DIAx60"HI	5"	5"
251 TO 600	42"DIAx66"HI	5"	6"
601 TO 1000	48"DIAx72"HI	6"	6"

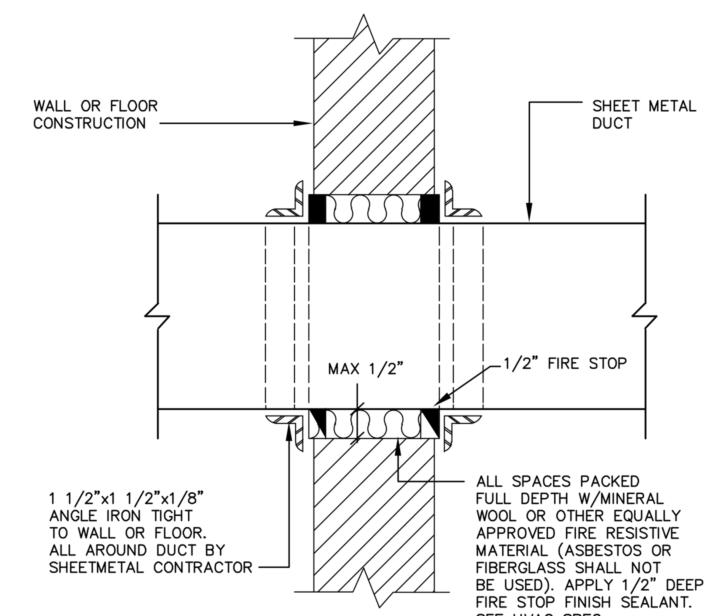


ELEVATION



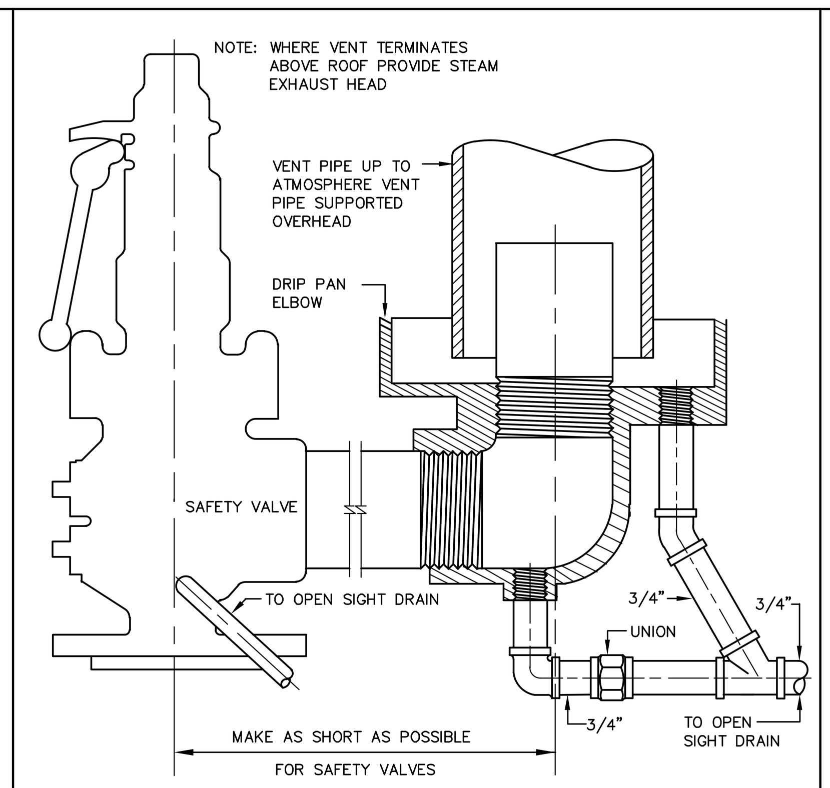
PLAN VIEW

DETAIL OF CAULKING OF DUCT PIERCING WALLS OR FLOORS WHERE FIRE DAMPERS ARE NOT REQUIRED

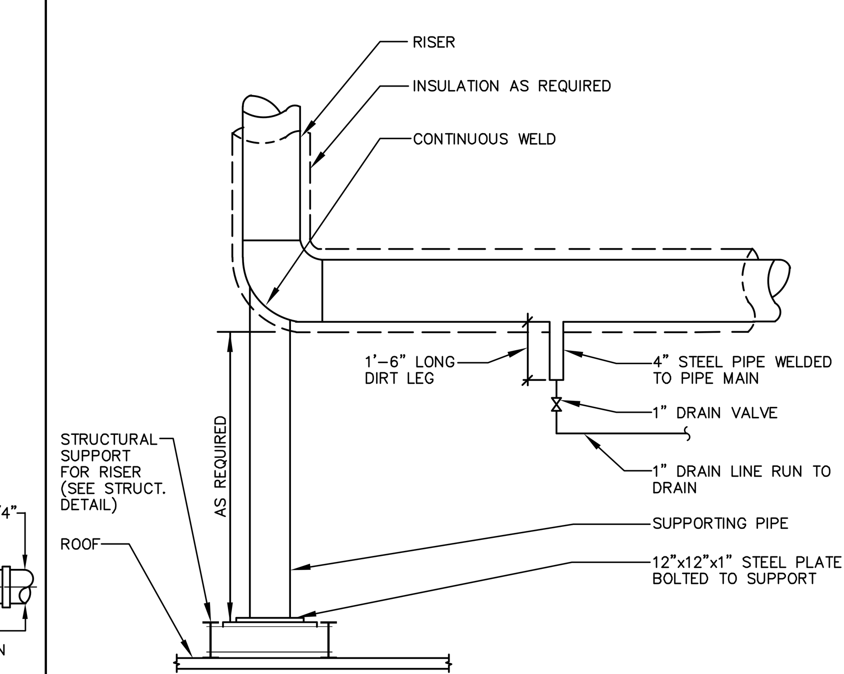


NOTE:
1. FOR WALLS REQUIRING FIRE DAMPERS, SEE OTHER DETAILS.

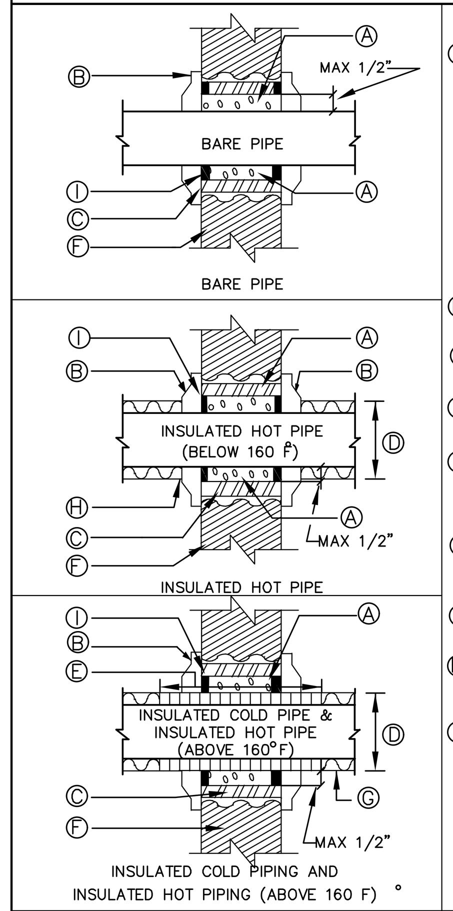
DETAIL OF DRIP PAN ELBOW



PIPE RISER BASE ELBOW SUPPORT DETAIL



DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS AND FLOORS



Ⓐ ALL SPACES PACKED FULL DEPTH WITH MINERAL WOOL OR OTHER EQUALLY APPROVED FIRE RESISTIVE MATERIAL (ASBESTOS OR FIBERGLASS SHALL NOT BE USED)

FIRE RESISTANT FOAM SEAL ANT CHASE FOAM CTC P2-855 (NYC MEA#58-79 M#1&11 MAY BE USED. INSTALL-ATION AS PER MANUFAC-TURER.

Ⓑ ESCUTCHEON BOTH SIDES

Ⓒ SLEEVE

Ⓓ DIAMETER OF INSULATED PIPE

Ⓔ ANHYDROUS CALCIUM SILICATE INSULATION THRU SLEEVE

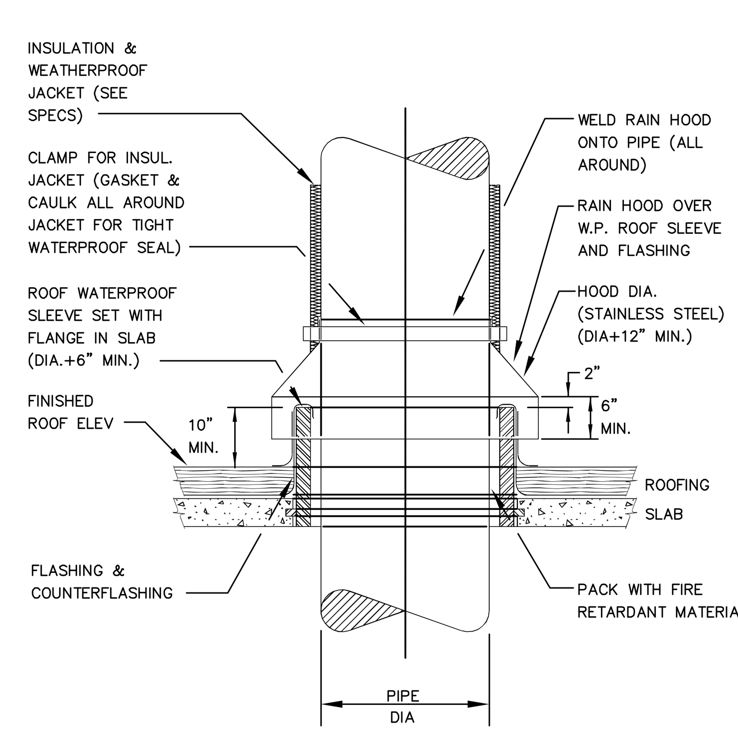
Ⓕ FIRE RATED PARTITION WALL OR FLOOR

Ⓖ FIBERGLASS INSULATION

Ⓗ TERMINATE INSULATION AT ESCUTCHEON

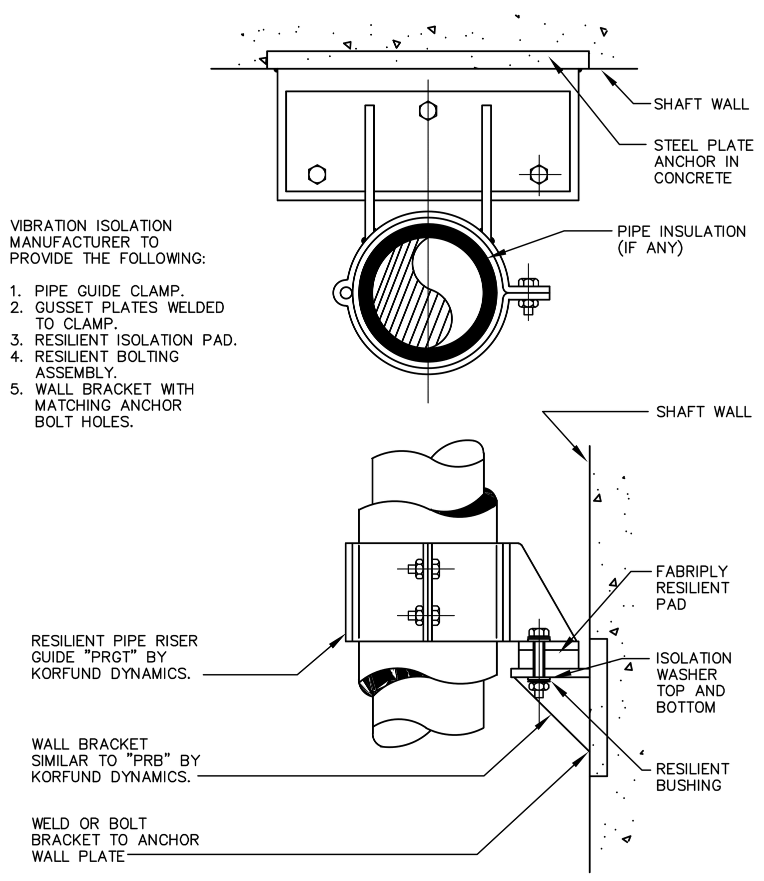
Ⓘ 1/2" DEPTH FIRE STOP FINISH SEALANT (SEE HVAC SPEC)

PIPE PENETRATION THRU ROOF SLAB



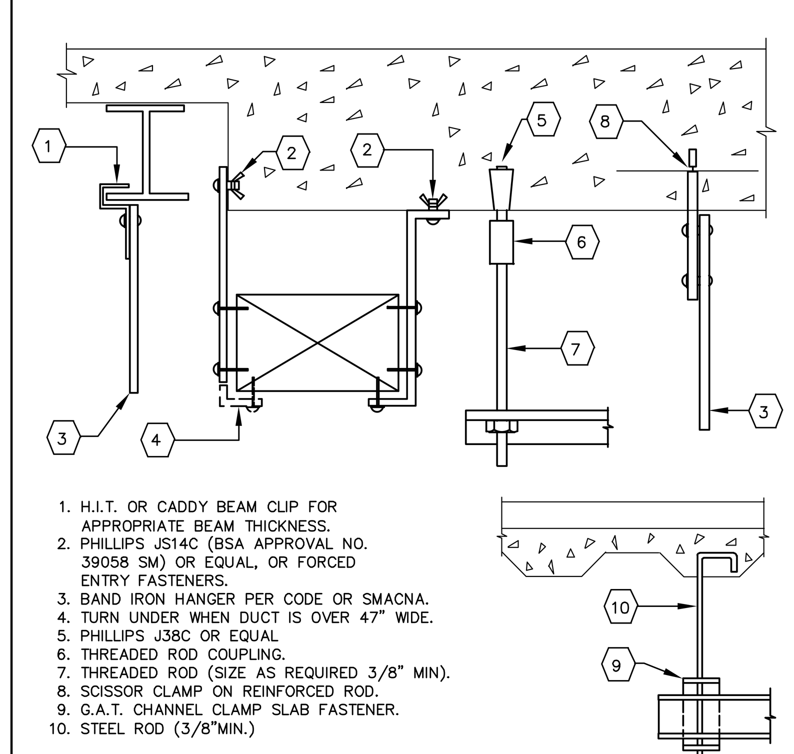
RESILIENT PIPE RISER GUIDE

(FOR PIPE DIAMETERS 6" AND SMALLER)



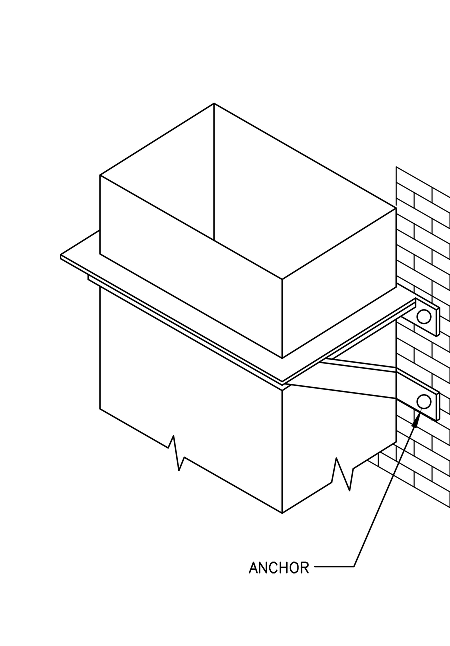
VIBRATION ISOLATION MANUFACTURER TO PROVIDE THE FOLLOWING:
1. PIPE GUIDE CLAMP.
2. GUSSET PLATES WELDED TO CLAMP.
3. RESILIENT ISOLATION PAD.
4. RESILIENT BOLTING ASSEMBLY.
5. WALL BRACKET WITH MATCHING ANCHOR BOLT HOLES.

METHOD OF HANGING DUCTWORK



1. H.I.T. OR CADDY BEAM CLIP FOR APPROPRIATE BEAM THICKNESS.
2. PHILLIPS JS14C (BSA APPROVAL NO. 39058 SM) OR EQUAL, OR FORCED ENTRY FASTENERS.
3. BAND IRON HANGER PER CODE OR SMACNA.
4. TURN UNDER WHEN DUCT IS OVER 47" WIDE.
5. PHILLIPS J38C OR EQUAL
6. THREADED ROD COUPLING.
7. THREADED ROD (SIZE AS REQUIRED 3/8" MIN).
8. SCISSOR CLAMP ON REINFORCED ROD.
9. G.A.T. CHANNEL CLAMP SLAB FASTENER.
10. STEEL ROD (3/8"MIN.)

DUCT RISER SUPPORT DETAIL

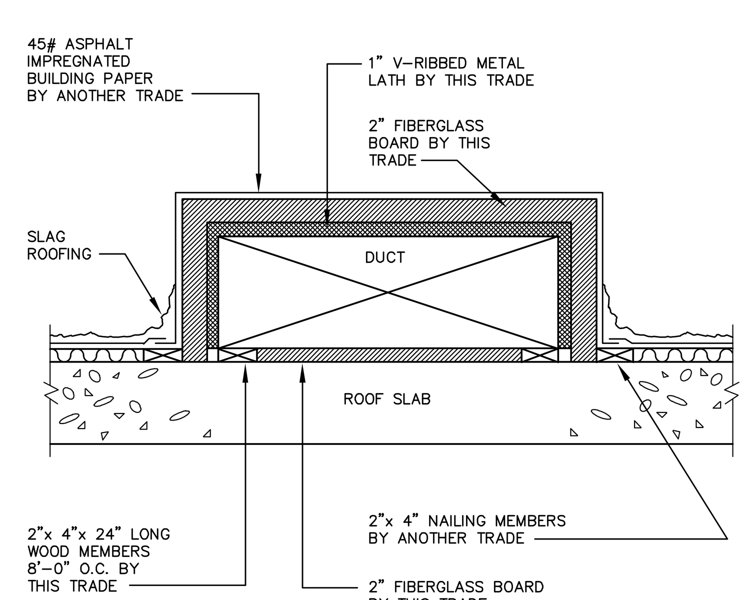


NOTE:
1. BRACKETS ARE SIZED FOR 12 FEET OF DUCT MAXIMUM.
2. LOCATE DUCTS AGAINST WALL OR MAXIMUM OF 2" AWAY FROM WALL.
3. EACH WALL ANCHOR SHALL SATISFY THE FOLLOWING CRITERIA UNLESS OTHER ANALYSIS IS MADE:
   A. TENSILE LOAD= 3/8 x DUCT WEIGHT; SAFETY FACTOR OF 4.
   B. SHEAR LOAD= 1/2 x DUCT WEIGHT; SAFETY FACTOR OF 4.

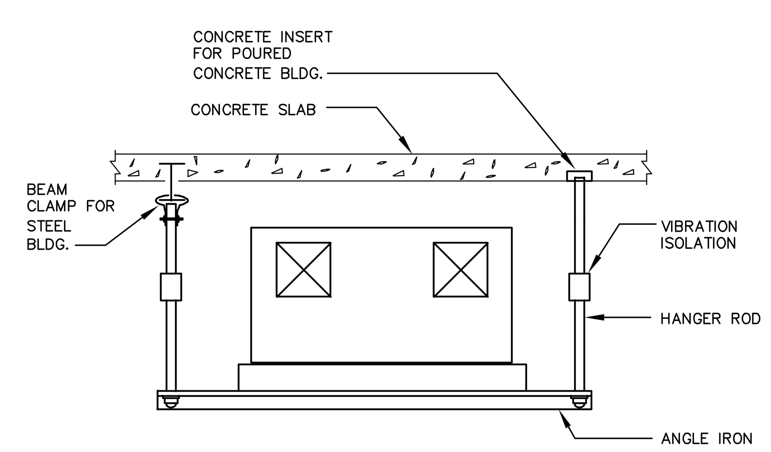
TABLE OF GUIDE SPACINGS

NOMINAL PIPE SIZE	MAXIMUM DISTANCE		MAXIMUM DISTANCE BETWEEN INTERMEDIATE GUIDES (FT) FOR PRESSURES (PSIG) SHOWN BELOW							
(IN)	EXPANSION JOINT TO FIRST GUIDE	FIRST TO SECOND GUIDE	50	100	150	200	250	300	350	400
3	1'-0"	3'-6"	21	19	17	16	15	14	13	13
4	1'-4"	4'-8"	35	29	25	22	20	19	18	17
6	2'-0"	7'-0"	57	44	37	32	29	27	25	23
8	2'-8"	9'-4"	66	52	45	40	36	33	31	29
10	3'-4"	11'-8"	91	69	58	51	46	42	39	36
12	4'-0"	14'-0"	107	79	66	58	52	48	44	41
14	4'-8"	16'-4"	115	85	71	62	56	51	47	
16	5'-4"	18'-8"	127	94	78	68	61	56	52	
18	6'-0"	21'-0"	139	102	85	74	67	61	56	
20	6'-8"	23'-4"	151	110	91	80	71			
24	8'-0"	28'-0"	172	125	103	89	80			
30	10'-0"	35'-0"	200	144	118	103	92			

DETAIL OF INSULATED DUCTS ON ROOF

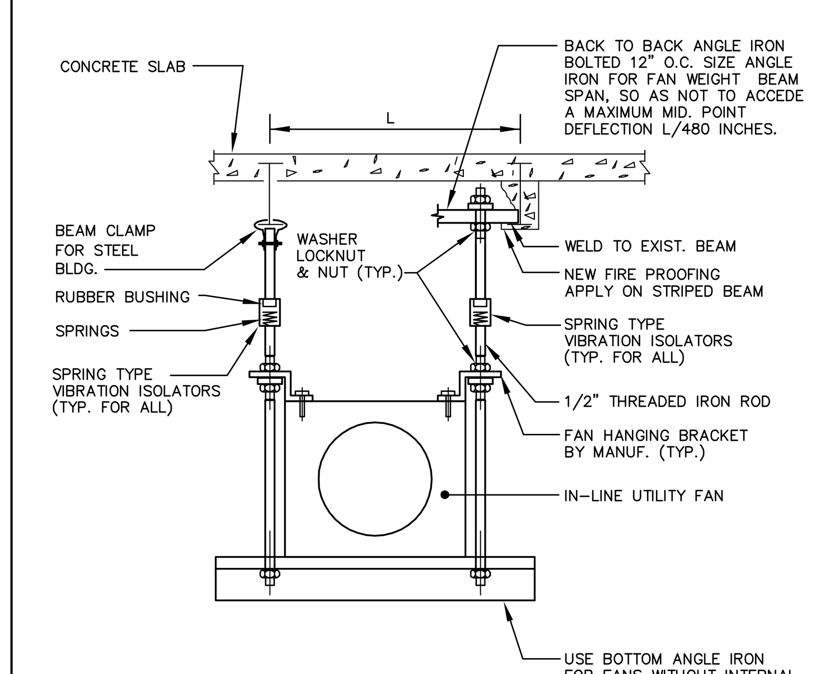


TYPICAL FAN EQUIPMENT HANGING DETAIL



NOTES:
METHOD OF HANGING, TYPE OR INSERT, BEAM CLAMP, ROD, ETC., MUST BE APPROVED BY STRUCTURAL ENGINEER.

IN-LINE FAN SUPPORT DETAIL



NOTES:
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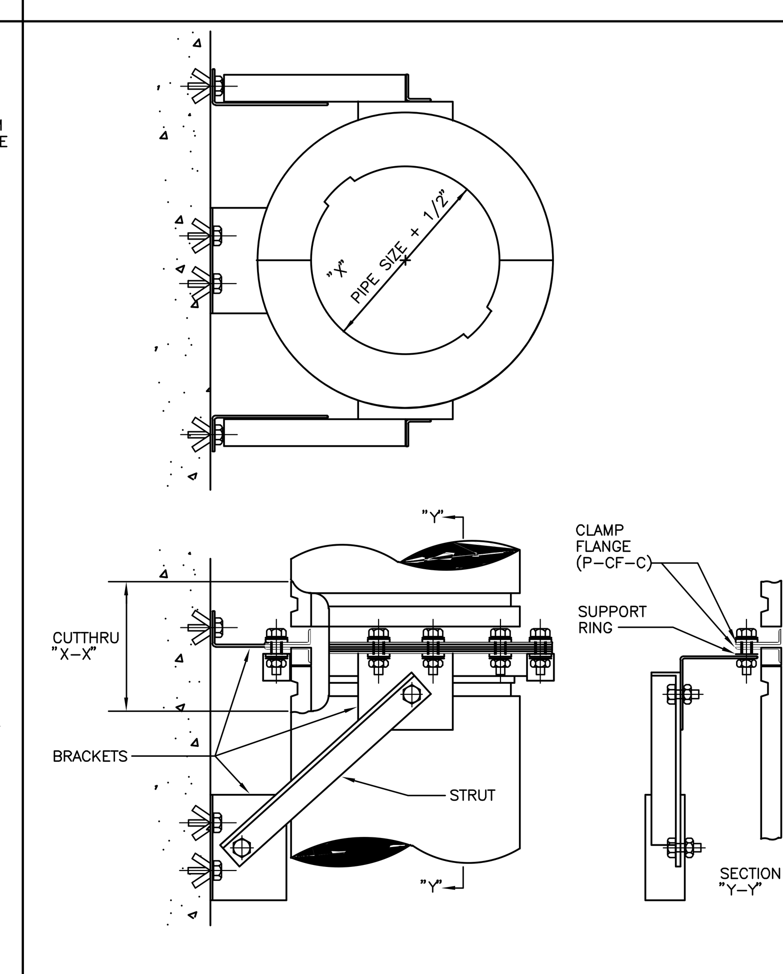
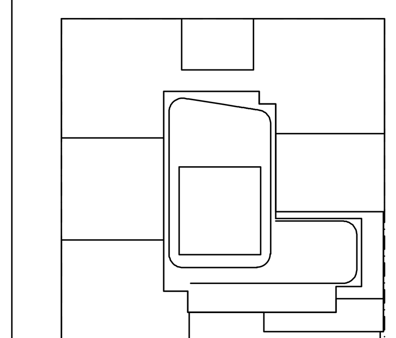
EXHAUST FLUE RISER HANGER DETAIL





KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET / DOB FILING SET
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	11/11/2016	100% DD/FOUNDATION BID SET
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	02/05/2016	DOB FILING SET

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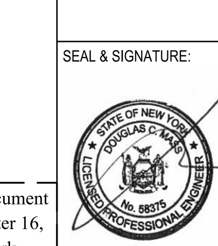
DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
DETAIL SHEET N0.3

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-502.00
DWG NO.
OF

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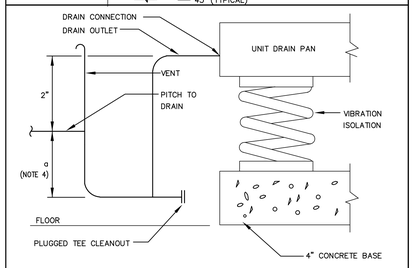
FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\mechanical\150318M-502.00 DETAIL SHEET No. 3.dwg SAVED ON 10/11/2017 3:38 PM PLOTTED ON 10/12/2017 3:07 PM PLOTTED BY VALITE, VAN

DEPT OF BLDGS 420005954 Job Number
E1545320308 Scan Code

INTERPRETATION OF SINGLE LINE DUCTWORK

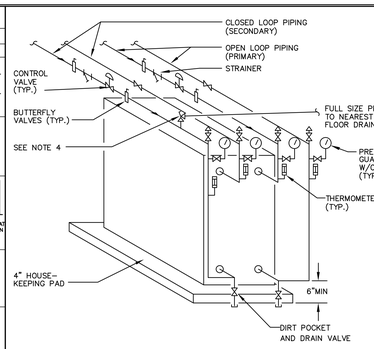
WHERE DUCTWORK IS SHOWN SINGLE LINE, FOLLOWING SHALL APPLY FOR ACTUAL DUCT CONSTR.

SINGLE LINE	ACTUAL CONSTRUCTION
TEE CONVERGING AIR DIVERGING	VOLUME DAMPER; SINGLE TURNING VANES
ELBOW	SINGLE BLADE TURNING VANE (EITHER TYPE ELBOW AT CONTR. OPTION–SUBJECT TO SPACE CONDITIONS). VANES SHALL BE WELDED TO RUNNERS. USE LARGE RADIUS VANES. MAXIMUM UNSUPPORTED VANE LENGTH SHALL NOT EXCEED 36".
(BRANCH AIR FLOW 25% OR HIGHER) SPLIT OR TAKE–OFF	A,B SHALL BE PROPORTIONAL TO AIR QUANTITY, 4" (10cm) MIN. IF A or B IS LESS THAN 4" (10cm), USE TAP DETAIL. VOLUME DAMPER IN SHORTER BRANCH. SINGLE BLADE TURNING VANES; SQUARE THROAT ELBOW OPTION; 6" ø (152mm) MIN. 0 ø" (102mm) MIN.
(BRANCH TAP 25% OR OR LESS AIR FLOW) TAP TAKE–OFF	SIDE TAP BRANCH SHALL BE LIMITED TO 25% OF MAIN AIR FLOW. VOLUME DAMPER. AIR FLOW SUPPLY 45° AIR FLOW RETURN 45°
RISE OR DROP	ELEVATION. OFFSET IN VERTICAL PLANE SHALL BE MADE WITH SMOOTH FITTINGS AND HAVE EQUAL CROSS SECTIONAL AREAS.
HORIZONTAL OFFSET	OFFSET IN HORIZONTAL PLANE SHALL BE MADE WITH SMOOTH FITTINGS AND HAVE EQUAL CROSS SECTIONAL AREAS.
PLENUM OVER DIFFUSER CONN. TO LINEAR DIFFUSER PLENUM	PLENUM OVER LINEAR SUPPLY OR RETURN DIFFUSER OR GRILLE. CONICAL FITTINGS. REGULATION OF VOLUME DAMPER SHALL BE ACCESSIBLE THROUGH THE FACE OF DIFFUSER
FLD FIRE RATED WALL FIRE DAMPER	ACCESS DOOR IN DUCT. FLD SEE DETAILS AND SPECIFICATIONS.
HTG. COIL HEATING COIL	FLARE/TRANSITION DUCT TO ACCOMMODATE COIL. COIL WITH FLANGED CONNECTION ALL AROUND. ACCESS DOORS. 45° (TYPICAL). AIR FLOW



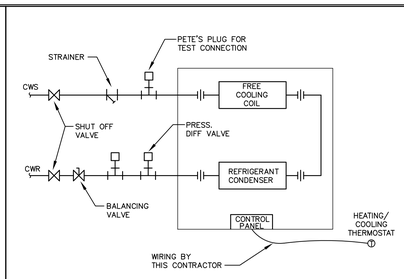
NOTES:
1. ALL DRAIN PIPING TO BE DRAIN PAN OUTLET SIZE 1–1/2" MINIMUM.
2. SUPPORT DRAIN LINES TO PREVENT SAG.
3. INSULATE DRAIN LINES AS PER SPECIFICATIONS.
4. MIN. DIMENSION
   FOR DRAW THRU UNITS a = 1.0 x S.P."
   FOR BLOW THRU UNITS a = 1.5 x S.P."

AIR CONDITIONING UNIT COOLING COIL DRAIN DETAIL



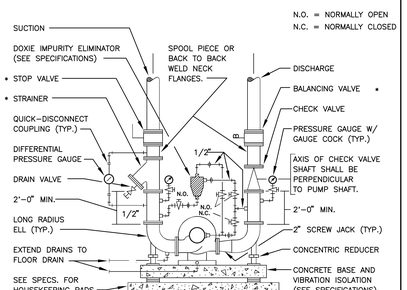
NOTES:
1. PROVIDE THERMOMETERS AND SEPARABLE SOCKETS FOR THERMOMETERS.
2. PROVIDE PRESSURE GUAGES AND GUAGE TEST CONNECTIONS.
3. ALL PIPING SHALL BE ARRANGED TO ALLOW REMOVAL OF PLATE FIN SECTIONS FOR CLEANING W/MIN. DISTURBANCE TO PIPING.
4. RELIEF VALVE SETTING SHALL BE 10 PSI BELOW RATING OF PIPING SYSTEM OF HEAT EXCHANGER.

PLATE FIN HEAT EXCHANGER



NOTES:
1. UNIT SHALL BE LOCATED SO THAT FILTERS AND ACCESS PANEL IS ACCESSIBLE.
2. PROVIDE PRESS DIFF SWITCH TO PREVENT AC UNIT FROM RUNNING WITH NO WATER FLOW.
3. PROVIDE ROOM THERMOSTAT WITH SUB–BASE (THERMOSTAT TO BE HEATING/COOLING TYPE).
4. VALVE AND COIL PRESSURE RATING AS FOLLOWS:
   125 PSIG ☒ 250 PSIG ☐
   300 PSIG ☐

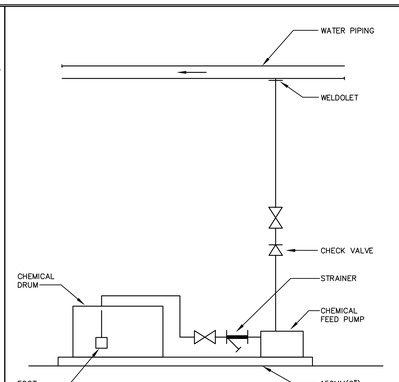
CONDENSER WATER PIPING DETAILS FOR HEAT PUMP WITH FREE COOLING COIL



* SEE PIPING SCHEMATIC FOR LOCATION OF VALVES AND STRAINERS

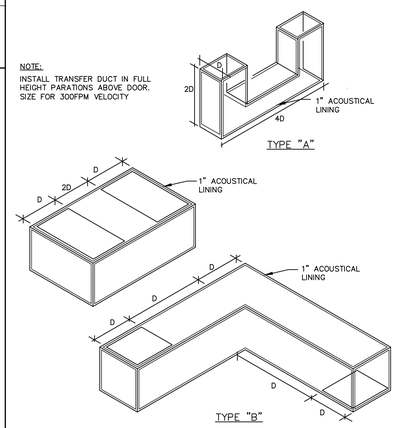
TYPICAL PIPING ARRANGEMENT FOR DOUBLE SUCTION PUMP

NO SCALE

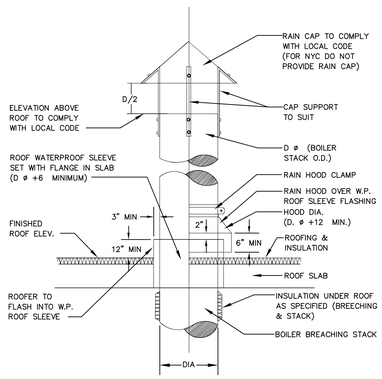


CHEMICAL TREATMENT SYSTEM

NOTE:
INSTALL TRANSFER DUCT IN FULL HEIGHT PARATIONS ABOVE DOOR. SIZE FOR 300FPM VELOCITY

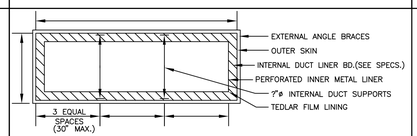


TRANSFER (JUMPER) DUCT TYPES



ELEVATION OF BOILER STACK

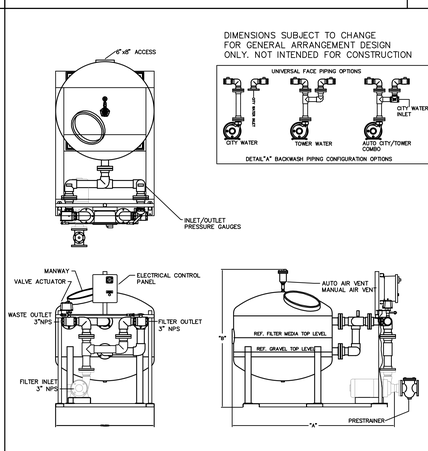
NO SCALE



DUCT CONSTRUCTION:

A. OUTER SKIN
   1. GALVANIZED SHEET METAL.(SEE SPEC)
B. INNER SKIN
   1. TEDLAR FILM LINING.
   2. 22 GUAGE PERFORATED GALVANIZED SHEET METAL
   3. STRUCTURALLY ATTACHED TO OUTER SKIN BY 2" ANGLES SPOT WELD AS NECESSARY 24" ON CENTER.
   4. PERFORATED DUCT SHALL BE BENT OVER EDGES OF LINER AT TRANSVERSE JOINTS AND SECURED FROM OUTER DUCT TO FORM NOSING AT JOINTS. PROVIDE CORNER PIECES (2" LONG) POP RIVETED TO INNER DUCT NOSING.
   5. PERFORATED DUCT LINER SHALL BE FLUSH WITH OUTER DUCT AT TRANSVERSE JOINTS.
C. INTERNAL DUCT LINER
   1. ACOUSTICAL DUCT LINING. (SEE SPECS.)
   2. DUCT LINING SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SMACNA STANDARDS.
   3. ALL EDGES OF FIBER GLASS DUCT LINER SHALL BE COATED WITH ADHESIVE.
   4. CORNERS SHALL BE FOLDED OR LAPPED AND BUTTED WITH NO VOID AT CORNERS.
D. INTERNAL DUCT SUPPORTS
   1. INTERNAL PERFORATED DUCT SUPPORT SHALL BE 7"ø TIE ROD WELDED TO 4x4x16 GAUGE PLATE SECURED TO TOP & BOTTOM OF DUCT. NOTE: WELD TIE ROD TO PLATE BEFORE INSTALLING INTO DUCT.
   2. PROVIDE DUCT SEALANT AT PLATE AND SCREW HEADS.
E. EXTERNAL REINFORCING
   1. PER SMACNA STANDARDS. (SEE SPECIFICATIONS FOR DUCT PRESSURE CLASSIFICATION)
F. ACCESS DOORS
   1. 2 HOUR RATED DOUBLE SKIN INSULATED.

DOUBLE WALL DUCT CONSTRUCTION



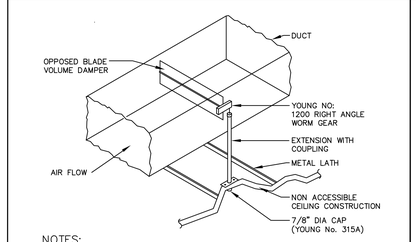
SAND FILTER FOR CONDENSER WATER

NOTES

1. MAXIMUM FILTER FLOW RATE:
   36": 142 GPM
   42": 192 GPM
   48": 250 GPM
2. BACKWASH FLOW RATE RANGE:
   36": 130–142 GPM
   42": 170–192 GPM
   48": 220–250GPM
3. MAX. WORKING PRESSURE:
   TANK MATERIAL: STAINLESS STEEL: 100 psig
   TANK MATERIAL: FIBERGALSS: 50 psig
4. MEDIA LOADING (10 MICRON):
   36": 1) UNIGRAN 475: 4.5 CU. FT. (9 PAILS)
   2) UNIGRAN 85: 4.5 CU. FT. (9 PAILS)
   42": 1) UNIGRAN 475: 7 CU. FT. (14PAILS)
   2) UNIGRAN 85: 6 CU. FT. (12 PAILS)
   48": 1) UNIGRAN 475: 10 CU. FT. (10 BAGS)
   2) UNIGRAN 85: 12 CU. FT. (8 BAGS)

	"A"	"B"
36"	76"	66"
42"	77"	66"
48"	80"	67"

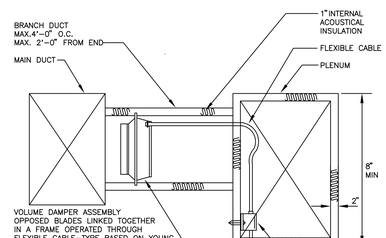
PROPRIETARY: NEITHER THE DRAWING NOR INFORMATION CONTAINED HEREIN MAY BE COPIED, REPRODUCED OR OTHERWISE USED WITHOUT WRITTEN PERMISSION FROM PROCESS EFFICIENCY PRODUCTS



NOTES:
1. WHEN DAMPER IS LOCATED WITHIN 10' OF A DIFFUSER, OR WITHIN A LOBBY OR SPECIALTY SPACE (COORDINATE WITH ARCHITECT), VOLUME DAMPER ASSEMBLY SHALL BE OPERABLE THROUGH FACE OF NEAREST DIFFUSER, BY MEANS OF FLEXIBLE–CABLE BASED ON BOWDEN REMOTE CABLE CONTROL SYSTEM WITH YOUNG REGULATOR.
2. ALL OTHER NON–ACCESIBLE CEILING AREAS SHALL BE AS INDICATED.

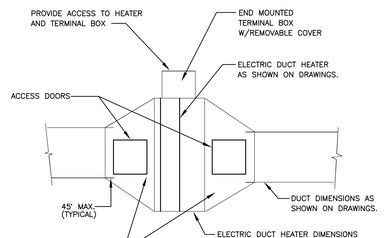
VOLUME CONTROL DAMPER

FOR NON ACCESSIBLE CEILINGS ONLY



NOTE:
TYPICAL BRANCH DUCT TO BE MIN. 6"x6" UNLESS NOTED.

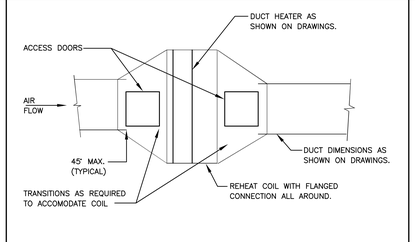
LINEAR DIFFUSER DETAIL



NOTES:
1. PROVIDE APPROVED DUCT HANGERS WITHIN 300mm (12") HORIZONTALLY (BOTH UPSTREAM AND DOWNSTREAM) OF THE HEATER.

ELECTRIC DUCT HEATER DETAIL

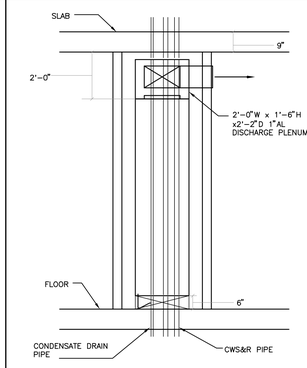
NO SCALE



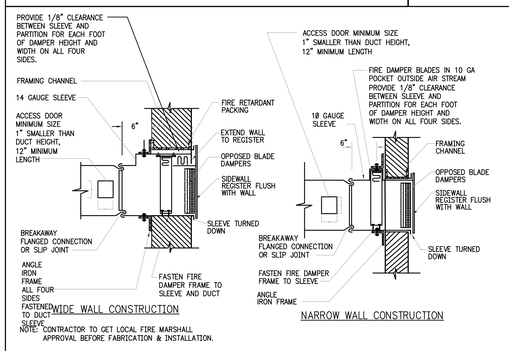
NOTES:
1. PROVIDE APPROVED DUCT HANGERS WITHIN 300mm (12") HORIZONTALLY (BOTH UPSTREAM AND DOWNSTREAM) OF THE COIL.
2. FOR PIPE CONNECTIONS, SEE DETAILS AND SPECIFICATIONS.

REHEAT COIL DUCT CONNECTION DETAIL

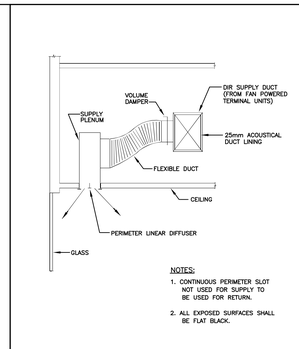
NO SCALE



VERTICAL HEATPUMP DETAIL



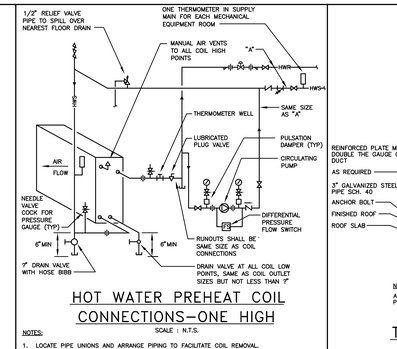
DETAILS OF SIDEWALL REGISTER WITH FIRE DAMPER



NOTES:
1. CONTINUOUS PERIMETER SLOT NOT USED FOR SUPPLY TO BE USED FOR RETURN.
2. ALL EXPOSED SURFACES SHALL BE FLAT BLACK.

TYPICAL PERIMETER SLOT DIFFUSER

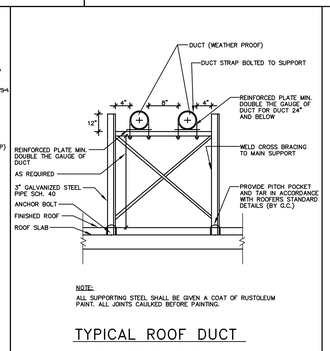
NO SCALE



HOT WATER PREHEAT COIL CONNECTIONS–ONE HIGH

SCALE : N.T.S.

NOTES:
1. LOCATE PIPE UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
2. PROVIDE SIMILAR PIPING ARRANGEMENTS ON EACH SIDE FOR TWO SECTION WIDE COIL ASSEMBLY.
3. FOR PIPE SIZES 'A' SEE PLANS.
4. ON LINES 2" AND SMALLER LOCATE THERMOMETER WELLS IN PIPE ELBOW.



NOTE:
ALL SUPPORTING STEEL SHALL BE GIVEN A COAT OF RUSTOLEUM PAINT. ALL JOINTS CAULKED BEFORE PAINTING.

TYPICAL ROOF DUCT SUPPORT DETAIL

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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

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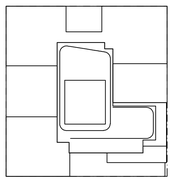

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/07/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
MECHANICAL
DETAIL SHEET NO.4

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
M-503.00
DWG NO.
OF

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DEPT OF BLDGS 420655954 Job Number
ES272419907 Scan Code

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SYMBOL	DESCRIPTION	NOTES
LIGHTING FIXTURES		
	CIELING MOUNTED LIGHTING FIXTURES	UPPER CASE LETTERS INSCRIBED IN SYMBOL INDICATE FIXTURE TYPE REFERENCES TO FIXTURE LIST SUBSCRIPT LOWER CASE LETTERS INDICATE SWITCH CONTROL ASSOCIATIONS (OR CONTROL ZONE DESIGNATION WHERE APPLICABLE -- SEE BELOW)
	WALL MOUNTED LIGHTING FIXTURES	SEE LIGHTING DESIGNER AND ARCHITECTURAL DRAWINGS FOR CORRECT FIXTURE TYPES AND QUANTITIES
	WALL MOUNTED SCONCE LIGHTING FIXTURES	
	FLOOR MOUNTED LIGHTING FIXTURE	
EXIT SIGNS		
	WALL MOUNTED EXIT SIGN	APPLICATION OF SHADED QUADRANTS AND ARROWS THUS:
	CEILING MOUNTED EXIT SIGN	INDICATE LETTERED FACE AND DIRECTIONAL ARROWS AT SYMBOLS FOR SIGNS FOR WHICH SELECTION OF SUCH FEATURES IS REQUIRED.
		SUBSCRIPT DESIGNATIONS XA, XB, XC, ETC. INDICATE EXIT SIGN TYPE REFERENCES TO LIGHTING FIXTURE LIST.
JUNCTION AND PULL BOXES -- SECONDARY LIGHT AND POWER WIRING		
J	PULL BOX OR JUNCTION BOX--OUTLET BOX TYPE WALL MOUNTED	SH - MOTORIZED SHADES PS - MOTORIZED PROJECTION SCREEN
J	PULL BOX OR JUNCTION BOX--OUTLET BOX TYPE MOUNTED AT CEILING	
	PULL BOX OR JUNCTION BOX LARGE CUSTOM FABRICATED TYPE	SIZED BY ELECTRICAL CONTRACTOR AS REQUIRED. BOXES MARKED 'CS' ON RISER INDICATE CABLE SUPPORT SHALL BE INCLUDED.
J	FLUSH FLOOR JUNCTION BOX -- OUTLET BOX TYPE	PROVIDE WIREMOLD SERIES 880 STEEL FLOOR BOX WITH ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION AS PER FLOOR CONDITIONS. COMBINE WITH ADDITIONAL FLOOR BOXES FOR A/V AND TEL/COM AS PER THOSE DWGS.
	FREE STANDING JUNCTION BOX -- OUTLET BOX TYPE, MOUNTED ON CONDUITS STUBBED UP FROM FLOOR.	

FIRE PROTECTIVE ALARM SYSTEM ACTUATING DEVICES

SYMBOL	DESCRIPTION		
	MANUAL FIRE ALARM ACTUATING DEVICE OR STATION		SUBSCRIPT NUMBERS INDICATE ZONE OR CIRCUIT
	SPRINKLER ALARM ACTUATING DEVICE	SUBSCRIPT UPPER CASE LETTERS DENOTE THE FOLLOWING: -	SUBSCRIPT LOWER CASE LETTERS DENOTE EXCEPTIONS TO SPECIFIED STANDARD MOUNTING AS FOLLOWS: f - FLUSH sF - SEMIFLUSH s - SURFACE d - IN DUCT
	FIRE STANDPIPE ALARM ACTUATING DEVICE	A--MAIN ALARM VALVE WATER-FLOW DETECTOR W--WATERFLOW DETECTOR T--TAMPER SWITCH F--FLOAT SWITCH FR--FIRE PUMP RUNNING ALARM RELAY CONTACTS FP--FIRE PUMP POWER AVAILABLE ALARM RELAY CONTACTS P--AIR PRESSURE SWITCH DV--DRY VALVE S--SOLENOID	
	AUTOMATIC FIRE DETECTION ALARM ACTUATING DEVICE	SUBSCRIPT UPPER CASE LETTERS DENOTE THE FOLLOWING: - -H--HEAT DETECTOR	
	ADRESSABLE TYPE AUTOMATIC SMOKE DETECTION ALARM ACTUATING DEVICE		
SC	CEILING OR WALL MOUNTED COMBINATION SMOKE/CARBON MONOXIDE DETECTION ALARM ACTUATING DEVICE WITH BATTERY BACKUP	DETECTORS SHALL BE HARD-WIRED TO NON-DEDICATED 120V POWER AND SHALL HAVE AN INTERNAL BATTERY BACKUP	

FIRE PROTECTIVE ALARM SYSTEM SOUNDING AND VISUAL DEVICES

SYMBOL	DESCRIPTION	NOTES
	SPEAKER TYPE SOUNDING DEVICE	SYMBOLS, AS SHOWN, REPRESENT WALL MOUNTED DEVICES UNLESS SPECIFICALLY NOTED OTHERWISE.
	VISUAL DEVICE ONLY	SUBSCRIPT LOWER CASE LETTERS IN QUOTES DENOTE EXCEPTIONS TO SPECIFIED MOUNTING AS FOLLOWS: "f"-FLUSH "s"-SURFACE "b"-BRACKET
DGP	DATA GATHERING PANEL	ALL DEVICES IN RESIDENTIAL CORRIDORS SHALL BE MOUNTED AT 80" AFF
F	WALL MOUNTED FIREMAN'S PHONE	
W	WALL MOUNTED WARDEN'S PHONE	

FIRE PROTECTIVE ALARM SYSTEM BASIC ITEMS

SYMBOL	DESCRIPTION	NOTES
FPA	JUNCTION OR PULL BOX FOR SYSTEM WIRING	
FACS	FIRE ALARM CONTROL STATION	
FPA	REMOTE ANNUNCIATOR	
ANN	GENERATOR REMOTE ANNUNCIATOR	

WIRING CONTROL LEGEND

SYMBOL	DESCRIPTION
PC	PHOTOCELL
TC	TIMECLOCK
C VS	CEILING VACANCY SENSOR
W VS	WALL VACANCY SENSOR
W OS	WALL OCCUPANCY SENSOR
EM BG	BREAK GLASS EMERGENCY POWER OFF

SYMBOL	DESCRIPTION	NOTES
SECONDARY FEEDERS		
	FEEDER RUN CONCEALED ABOVE AS PER BASIC REQUIREMENTS FOR THE INSTALLATION OF CIRCUITRY.	
	FEEDER RUN CONCEALED BELOW AS PER BASIC REQUIREMENTS FOR THE INSTALLATION OF CIRCUITRY.	
	FEEDER RUN EXPOSED AS PER BASIC REQUIREMENTS FOR THE INSTALLATION OF CIRCUITRY.	
	FEEDER RUN AS PER SPECIFIC NOTATION.	
LIGHTING AND APPLIANCE BRANCH CIRCUITRY		
	LIGHTING AND APPLIANCE BRANCH CIRCUITRY RUN CONCEALED ABOVE AS PER BASIC REQUIREMENTS FOR THE INSTALLATION OF CIRCUITRY.	ARROW HEADS INDICATE HOME RUN CIRCUITRY--NUMBER OF ARROW HEADS INDICATES NUMBER OF BRANCH POLES REQUIRED IN PANEL.
	LIGHTING AND APPLIANCE BRANCH CIRCUITRY RUN CONCEALED BELOW AS PER BASIC REQUIREMENTS FOR THE INSTALLATION OF CIRCUITRY.	INDICATION THUS: - 1-20A 2-20A DENOTE NUMBER OF 20 AMP CIRCUITS WHERE NECESSARY TO DIFFERENTIATE BETWEEN 15 AND 20 AMP POLES IN THE SAME PANEL.
	LIGHTING AND APPLIANCE BRANCH CIRCUITRY RUN EXPOSED AS PER BASIC REQUIREMENTS FOR THE INSTALLATION OF CIRCUITRY.	INDICATION THUS: - * (2) DENOTES QUANTITY OF ASSOCIATED RELAYS IN LIGHTING CONTROL PANEL
	LIGHTING AND APPLIANCE BRANCH CIRCUITRY RUN AS PER SPECIFIC NOTATION.	CROSS MARKS INDICATE NUMBER OF CONDUCTORS IN RUN WHICH IS TO BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY OPERATING AT 20 AMPS OR LESS. PERTINENT INFORMATION FOR CIRCUITRY OVER 20 AMPS IS NOTED THUS: - 50A-3#6 ARROW HEADS INDICATE QUANTITY OF BRANCH POLES TO BE CONNECTED TO AT PANEL. SIZE OF CONDUCTORS. QUANTITY OF CONDUCTORS (WHERE QUANTITY OF CONDUCTORS IS GREATER THAN QUANTITY OF BRANCH POLES TO BE CONNECTED TO AT PANEL, THE EXCESS CONDUCTORS ARE NEUTRALS). SIZE OF POLES TO BE CONNECTED TO AT PANEL.

WIRING DEVICES

SYMBOL	DESCRIPTION		
$	WIRING DEVICE TYPE SWITCH	WITHOUT SUBSCRIPT NUMBER SYMBOL DENOTES "SINGLE POLE"	WITHOUT SUBSCRIPT UPPER CASE LETTERS SYMBOLS DENOTE WIRING DEVICE STANDARD AS SPECIFIED.
$	WALL BOX DIMMER	SUBSCRIPT NUMBERS DENOTE -2 POLE- -3 WAY-, -4 WAY-, ETC.	COMBINATION OF SYMBOLS THUS:-
$D	DOOR JAMB SWITCH	WITHOUT SUBSCRIPT NUMBER SYMBOL DENOTES "SINGLE SWITCH." SUBSCRIPT NUMBER DENOTES - 2 "DOUBLE SWITCH."	DENOTES WIRING DEVICES MOUNTED IN FREE-STANDING OUTLETS STUBBED UP FROM FLOOR.
	WALL DUPLEX CONVENIENCE RECEPTACLE		
	WALL SINGLE CONVENIENCE RECEPTACLE		
	DOUBLE DUPLEX "QUAD" RECEPTACLE		
	CEILING DOUBLE DUPLEX "QUAD" RECEPTACLE		
	CEILING DUPLEX RECEPTACLE		
	WALL SPECIAL PURPOSE POWER SUPPLY RECEPTACLE	SUBSCRIPT UPPER CASE LETTERS DENOTE NON STANDARD TYPE REFERENCE TO SCHEDULE OF NON STANDARD WIRING DEVICES.	
	FLOOR SPECIAL PURPOSE POWER SUPPLY RECEPTACLE		
	CEILING SPECIAL PURPOSE POWER SUPPLY RECEPTACLE		
	FLUSH FLOOR MOUNTED DUPLEX CONVENIENCE RECEPTACLE	PROVIDE FLUSH MOUNTED SERVICE BOX WITH WIREMOLD #PSRC9 SERVICE FITTING AND RECEPTACLES AS PER PLANS	
	FLUSH FLOOR MOUNTED DUPLEX CONVENIENCE RECEPTACLE	PROVIDE FLUSH MOUNTED SERVICE BOX WITH WIREMOLD #PSRC9 SERVICE FITTING AND RECEPTACLES AS PER PLANS	
	WIRING DEVICE GANGING SYMBOL	GANGING SYMBOL SHOWN IN CIRCUITRY RUN IN COMBINATION WITH ANY WIRING DEVICE SYMBOLS THUS:- DENOTES WIRING DEVICES WHICH ARE TO BE GANGED IN A SINGLE COMMON PLATE OUTLET.	

SYMBOL	DESCRIPTION	NOTES
MOTORS, PANELS, AND INDIVIDUALLY MOUNTED DEVICES AND EQUIPMENT - SECONDARY LIGHT AND POWER WIRING		
	MOTORS IN MECHANICAL SYSTEM EQUIPMENT	COMPLETE INFORMATION FOR MOTORS IS INDICATED BY APPLICATION OF TAG SYMBOL REFERENCE TO MOTOR LIST
	INDIVIDUALLY MOUNTED SECONDARY OVERCURRENT AND SWITCHING DEVICES (CIRCUIT BREAKERS, FUSIBLE SWITCHES, UNFUSED SWITCHES, ETC.) APPLIED AS SPECIFIED.	COMPLETE INFORMATION FOR DEVICES IS INDICATED BY APPLICATION OF TAG SYMBOLS --OMISSION OF TAG SYMBOLS DENOTES DEVICES WHICH ARE NOT PART OF ELECTRIC WORK-- IN THIS INSTANCE SUBSCRIPT NUMBERS ARE USED TO INDICATE SIZE OF FUSING WHERE REQUIRED (3 POLE FUSING UNLESS NOTED).
	MOTOR STARTER FOR MOTORS IN MECHANICAL SYSTEM EQUIPMENT.	SUBSCRIPT NUMBERS INDICATE FUSING WHERE REQUIRED (3 POLE FUSING UNLESS OTHERWISE NOTED) COMPLETE INFORMATION FOR MOTOR CONTROL ITEMS IS INDICATED BY THE TAG SYMBOL REFERENCE APPLIED TO ASSOCIATED MOTORS - WHERE RELATION OF MOTORS TO CONTROL ITEMS IS NOT EVIDENT, MOTOR TAG SYMBOLS ARE REPEATED AT SYMBOLS REPRESENTING THESE ITEMS TO CLARIFY THESE ASSOCIATIONS
	DISTRIBUTION, POWER, LIGHTING, APPLIANCE OR APARTMENT PANELETTE	SIZE OF PANELETTE SHOWN ON RISER DIAGRAM
	INDIVIDUALLY MOUNTED THREE PHASE DRY TYPE TRANSFORMER--SECONDARY COLTAGE TO SECONDARY VOLTAGE.	SUBSCRIPT NUMBERS INDICATE KVA RATING.
CIRCUITRY GENERAL		
	INDIVIDUAL RUN - STUBBED UP.	SYMBOLS REPRESENT VERTICAL PORTION OF RUN TO ANOTHER LEVEL EXCEPT THAT WHERE NOTED WITH EQUIPMENT IDENTIFICATION OF RUN IS TO ITEM ON SAME LEVEL.
	INDIVIDUAL RUN - STUBBED DOWN.	
	INDIVIDUAL RUN VERTICAL FROM LEVEL BELOW TO LEVEL ABOVE.	
	INDIVIDUAL RUN OFFSET WITHIN SAME LEVEL.	
	INDIVIDUAL RUN TERMINATED.	
	WATERHEAD.	
	CONDUIT BANK.	SECONDARY FEEDERS UNLESS OTHERWISE NOTED.
	CONDUIT BANK STUBBED UP.	SYMBOLS REPRESENT VERTICAL PORTION OF BANK TO ANOTHER LEVEL EXCEPT THAT WHERE NOTED WITH EQUIPMENT IDENTIFICATION OF BANK IS TO ITEM ON SAME LEVEL.
	CONDUIT BANK STUBBED DOWN.	
	CONDUIT BANK TERMINATED.	
CIRCUITRY IDENTIFICATION		
	INDIVIDUAL SLEEVE UP IDENTIFICATION	
	INDIVIDUAL SLEEVE DOWN IDENTIFICATION	
	INDIVIDUAL SLEEVE THROUGH IDENTIFICATION	ADJACENT NOTATIONS THUS:- 10-3" INDICATE QUANTITY AND SIZE
	BANK OF SLEEVES UP IDENTIFICATION	
	BANK OF SLEEVES DOWN IDENTIFICATION	
	BANK OF SLEEVES THROUGH IDENTIFICATION	
	JUNCTION BOX FOR OTHER THAN SECONDARY LIGHT AND POWER WIRING	

SYMBOL	DESCRIPTION	NOTES
TAG SYMBOLS		
	SECONDARY FEEDER TAG SYMBOL	INFORMATION IS LISTED IN THE TAG SYMBOL THUS:- FEEDER DESIGNATION NUMBER AND SIZE OF CONDUITS NUMBER AND SIZE OF CONDUCTORS REFERENCE TO AN APPLICABLE NOTE CONDUIT SIZE INDICATED ALONE DENOTES A SINGLE CONDUIT.
	SECONDARY INDIVIDUALLY MOUNTED OVERCURRENT AND/OR SWITCHING DEVICE TAG SYMBOL	INFORMATION IS LISTED IN THE TAG SYMBOL THUS:- "600" OR "250" INDICATES VOLTAGE RANGE AT WHICH DEVICE IS TO OPERATE. "2", "3", "3-N", ETC, INDICATES "2" POLE "3 POLE "3 POLE PLUS NEUTRAL, "ETC. DEVICE SIZE IN AMPERES. "U" INDICATES THAT NO OVERCURRENT PROTECTION IS REQUIRED--NUMBER INDICATES SIZE OF OVERCURRENT PROTECTION REQUIRED. INDIVIDUALLY MOUNTED OVERCURRENT AND SWITCHING DEVICES ARE FOR SURFACE MOUNTING UNLESS THE TAG SYMBOL CARRIES AN EXTERNAL SUBSCRIPT "f" INDICATING FLUSH MOUNTING.
	INDEXING SYMBOL	HEXAGONAL SYMBOLS CONTAINING UPPER CASE LETTERS WITH OR WITHOUT ARABIC NUMERALS INDICATE REFERENCE TO A LEGEND OR INDEX OF SPECIAL EQUIPMENT. HEXAGONAL SYMBOLS CONTAINING ARABIC NUMERALS ONLY INDICATE REFERENCE TO AN EXPLANATION OF ELECTRIC WORK REQUIREMENTS.
	REFERENCE SYMBOL	TRIANGULAR SYMBOLS CONTAINING ROMAN NUMERALS INDICATE REFERENCE TO A DETAIL.
	GANGING CROSS REFERENCE	THE NOTED INDICATION ADJACENT TO ANY SYMBOL FOR AN OUTLET TYPE DEVICE DENOTES THAT THE DEVICE IS TO BE GANGED IN A BOX WITH ANOTHER DEVICE WHOSE SYMBOL APPEARS SIMILARLY NOTED AT THE SAME LOCATION ON ANOTHER DRAWING.
(3'-9")	SPECIAL MOUNTING HEIGHT INDICATIONS	DIMENSION NOTED IN PARENTHESIS ADJACENT TO ANY ITEM ON THE DRAWINGS INDICATES THE HEIGHT OF ITS HORIZONTAL CENTERLINE ABOVE FINISHED FLOOR.
(*)	MOUNTING HEIGHT REFERENCE TO ARCHITECTURAL DRAWINGS	
*	APPLIANCE CIRCUIT OUTLET INDICATION	
	LINE INDICATING ASSOCIATION OF LOCAL SWITCHES WITH CONTROLLED OUTLETS	SYMBOLS USED WHERE DELINEATION OF LIGHTING AND APPLIANCE BRANCH CIRCUITRY IS OMITTED.
	SUBSCRIPT INDICATION DENOTING OUTLET REQUIRED ON SEPARATE CIRCUIT OPERATING AT 20 AMPS OR LESS	
	LINE INDICATING PHYSICAL SIZE OF ELECTRICAL ITEMS	INDICATION USED CIRCUMSCRIBING OTHER SYMBOLS TO DELINEATE PHYSICAL SIZE.

ABBREVIATIONS

(THIS LIST OF ABBREVIATIONS DOES NOT APPLY TO ANY LETTERS USED IN CONJUNCTION WITH SYMBOLS)

A	AMPS
AC	ALTERNATING CURRENT
ADJ	ADJACENT
AFD	AUTOMATIC FIRE DETECTION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIR COND	AIR CONDITIONING
AP	APPLIANCE PANEL
ARCH	ARCHITECTURAL
ASYM	ASYMMETRICAL
AUTO	AUTOMATIC
AVG	AVERAGE
BL	BLANK
BLDG	BUILDING
C	CONDUIT
CAB	CAB
CAT	CATALOGUE
CKT	CIRCUIT
CL	CLOCK
CLG	CEILING
CLOS	CLOSET
CM	CIRCULAR MIL
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONV	CONVENIENCE
CS	CABLE SUPPORT
CU	CUBIC
DC	DIRECT CURRENT
DIA	DIAMETER
DN	DOWN
DP	DISTRIBUTION PANEL
DTL	DETAIL
DWG	DRAWING
EA	EAST
EC	EMPTY CONDUIT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EM	ON EMERGENCY CIRCUIT
ENTR	ENTRANCE
EP	EXPLOSION PROOF
EQ	EQUAL
EQPMT	EQUIPMENT
EXIST	EXISTING
F	FLOOR
FA	FIRE ALARM
FDR	FEEDER
FIN	FINISH
FIXT	FIXTURE
FL	FLUSH
FLUOR	FLUORESCENT
FSTP	FIRE-STANDPIPE
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GD	GROUND
H	HERMETIC
HC	HUNG CEILING
HGT	HEIGHT
HOR	HORIZONTAL
HP	HORSEPOWER
HT	HIGH TENSION
HTG	HEATING
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IN	INCHES
INCAN	INCANDESCENT
INT	INTERCOM
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOURS
LP	LIGHTING PANEL
LS	LOUDSPEAKER
LT	LOW TENSION
LTG	LIGHTING
M	MAIN
MA	MILLIAMPS
MACH	MACHINE
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
MIC	MICROPHONE
MISC	MISCELLANEOUS
MTD	MOUNTED
MTR	MOTOR
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NL	ON NIGHT LIGHTING CIRCUIT
OL	OVERLOAD
P	POLES
PB	PULL BOX
PC	PULL CHAIN
PF	POWER FACTOR
PG	PAGING
PH	PHASE
PLB	PLUMBING
PNL	PANEL
PP	POWER PANEL
PWR	POWER
RC	REMOTE CONTROL
REC	RECEPTACLE
REQ	REQUIRED
RM	ROOM
RMS	ROOT MEAN SQUARE
S	SOUND
SC	SQUIRREL CAGE
SO	SOUTH
SP	SPARE
SPECS	SPECIFICATIONS
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
STD	STANDARD
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMETRICAL
TEL	TELEPHONE
TELCO	TELEPHONE CO.
TP	TAMPER PROOF
TV	TELEVISION
TYP	TYPICAL
UFD	UNDER FLOOR DUCT
V	VOLTS
VENT	VENTILATING
VERT	VERTICAL
VP	VAPORPROOF
W	WATTS
WE	WEST
WGD	WITH GUARD
WP	WEATHERPROOF
WR	WOUND ROTOR
WT	WIRING TROUGH
XFMR	TRANSFORMER
YD	YARD
# (UNRELATED TO OTHER WORDS)	WIRE GAUGE NUMBER
ø	PHASE
F@	FUSED AT
C	CENTER LINE
C/B	CIRCUIT BREAKER
CONV/O	CONVENIENCE OUTLET
C/T	CURRENT TRANSFORMER
P/T	POTENTIAL TRANSFORMER
O/C	OVERCURRENT
C/C	CENTER TO CENTER
N/O	NORMALLY OPEN
N/C	NORMALLY CLOSED

DESIGN IS IN ACCORDANCE WITH THE NYC BUILDING CODE 2014 AND NYC ELECTRICAL CODE. ASHRAE 90.1 - 2013 AS MODIFIED BY NYCECC APPENDIX CA.

LIST OF DETAILS

DETAIL NO.	DESCRIPTION	DWG NO.
I	DETAIL FOR BOILER EQUIPMENT SUPPLY SWITCH	E-403
II	DETAIL FOR AIRCRAFT OBSTRUCTION LIGHTING CONTROL EQUIPMENT	E-403
III	DETAIL FOR AIRCRAFT OBSTRUCTION LIGHTING SYSTEM	E-403
IV	DETAIL OF WIRING TROUGHS FOR CONNECTION OF SEPARATELY METERED FEEDERS	E-403
V	DETAIL FOR CENTRAL STATION REQUIREMENTS	E-403
VI	FIRE/SMOKE DAMPER INSTALLATION DETAIL	E-403
VII	SPECIFICATION NOTES FOR ELECTRIC PIPE TRACING	E-403
VIII	MOTOR OPERATED ROLL-UP DOOR	E-403
IX	OCCUPANCY/VACANCY SENSOR DETAIL	E-403
X	GROUNDING BUS BAR DETAILS AND NOTES	E-404
XI	WIRING DIAGRAM FOR GAS BOOSTER PUMP EMERGENCY STOP	E-404
XII	FIRE/SMOKE DAMPER SYSTEM	E-404
XIII	COOLING TOWER WIRING DIAGRAM	E-404
XIV	TYPICAL HEAT TRACING CONTROL WIRING DIAGRAM	E-404
XV	STEP DOWN/STEP UP TRANSFORMER SCHEDULE	E-405
XVI	PROGRAMMABLE STAND ALONE LIGHTING CONTROL SYSTEM	E-405
XVII	ELECTRICAL GROUNDING	E-405
XVIII	DETAIL OF EMERGENCY LIGHTING TRANSFER RELAY (UL924)	E-405
XIX	LIGHTING CONTROLLED BY CONTACTOR WIRING DIAGRAM	E-405
XX	MULTI-POLE RELAY AND TIME CLOCK DETAIL FOR EXHAUST FANS	E-405
XXI	ELECTRICAL GROUNDING BAR (BUS BARS)	E-405
XXII	TRANSFORMER GROUNDING MINIMUM REQUIREMENTS	E-405
XXIII	TYPICAL TENANT DISTRIBUTION MINI CLOSET PANEL (MC)	E-405
XXIV	DETAIL FOR CONDUIT WATERPROOFING INSTALLATION	E-405
XXV	TRAPEZE MOUNTED TRANSFORMER DETAIL	E-405
XXVI	DETAIL FOR CONDUIT FIRESTOPPING INSTALLATION	E-405
XXVII	STRUCTURED MEDIA CENTER BOX (NID)	E-405
XXVIII	ELEVATOR POWER REQUIREMENTS	E-406
XXIX	ENTRANCE CALL SYSTEMS	E-406

DWELLING UNITS: NOT LESS THAN 75 PERCENT OF PERMANENTLY INSTALLED LIGHTING FIXTURES IN EACH DWELLING UNIT OTHER THAN LOW VOLTAGE LIGHTING SHALL BE FITTED FOR AND CONTAIN ONLY HIGH EFFICACY LAMPS.

ELECTRICAL DRAWING LIST

Sheet No	Description
E-001.00	ELECTRICAL SYMBOL LIST, ABBRVIATION AND DRAWING LIST
E-002.00	ELECTRICAL SPECIFICATIONS
E-003.00	LIGHTING SPECIFICATION AND ENERGY CODE COMPLIANCE NOTES
E-100.00	ELECTRICAL CELLAR FLOOR POWER PLAN
E-101.00	ELECTRICAL GROUND FLOOR POWER PLAN
E-102.00	ELECTRICAL SECOND FLOOR POWER PLAN
E-103.00	ELECTRICAL THIRD FLOOR POWER PLAN
E-104.00	ELECTRICAL FOURTH FLOOR POWER PLAN
E-105.00	ELECTRICAL FIFTH FLOOR POWER PLAN
E-106.00	ELECTRICAL SIXTH FLOOR POWER PLAN
E-107.00	ELECTRICAL SEVENTH FLOOR POWER PLAN
E-108.00	ELECTRICAL 8TH - 19TH FLOORS TYPICAL POWER PLAN
E-120.00	ELECTRICAL 20TH - 35TH FLOORS TYPICAL POWER PLAN
E-136.00	ELECTRICAL 36TH FLOOR POWER PLAN
E-137.00	ELECTRICAL 37TH FLOOR POWER PLAN
E-138.00	ELECTRICAL 38TH - 50TH FLOORS TYPICAL POWER PLAN
E-151.00	ELECTRICAL 51ST - 61ST FLOORS TYPICAL POWER PLAN
E-162.00	ELECTRICAL 62ND FLOOR POWER PLAN
E-163.00	ELECTRICAL 63RD - 66TH FLOORS TYPICAL POWER PLAN
E-167.00	ELECTRICAL 67TH FLOOR POWER PLAN
E-168.00	ELECTRICAL ROOF FLOOR POWER PLAN
E-169.00	ELECTRICAL E.M.R FLOOR POWER PLAN
E-200.00	ELECTRICAL CELLAR FLOOR LIGHTING PLAN
E-201.00	ELECTRICAL GROUND FLOOR LIGHTING PLAN
E-202.00	ELECTRICAL SECOND FLOOR LIGHTING PLAN
E-203.00	ELECTRICAL THIRD FLOOR LIGHTING PLAN
E-204.00	ELECTRICAL FOURTH FLOOR LIGHTING PLAN
E-205.00	ELECTRICAL FIFTH FLOOR LIGHTING PLAN
E-206.00	ELECTRICAL SIXTH FLOOR LIGHTING PLAN
E-207.00	ELECTRICAL SEVENTH FLOOR LIGHTING PLAN
E-208.00	ELECTRICAL 8TH - 19TH FLOORS TYPICAL LIGHTING PLAN
E-220.00	ELECTRICAL 20TH - 35TH FLOORS TYPICAL LIGHTING PLAN
E-236.00	ELECTRICAL 36TH FLOOR LIGHTING PLAN
E-237.00	ELECTRICAL 37TH FLOOR LIGHTING PLAN
E-238.00	ELECTRICAL 38TH - 50TH FLOORS TYPICAL LIGHTING PLAN
E-251.00	ELECTRICAL 51ST - 61ST FLOORS TYPICAL LIGHTING PLAN
E-262.00	ELECTRICAL 62ND FLOOR LIGHTING PLAN
E-263.00	ELECTRICAL 63RD - 66TH FLOORS TYPICAL LIGHTING PLAN
E-267.00	ELECTRICAL 67TH FLOOR LIGHTING PLAN
E-268.00	ELECTRICAL ROOF FLOOR LIGHTING PLAN
E-269.00	ELECTRICAL E.M.R FLOOR LIGHTING PLAN
E-301.00	ELECTRICAL RISER DIAGRAM SHEET NO. 1
E-302.00	ELECTRICAL RISER DIAGRAM SHEET NO. 2
E-303.00	ELECTRICAL RISER DIAGRAM SHEET NO. 3
E-304.00	ELECTRICAL RISER DIAGRAM SHEET NO. 4
E-305.00	ELECTRICAL CORRIDOR & EXIT STAIR RISER DIAGRAM SHEET NO. 1
E-306.00	ELECTRICAL CORRIDOR & EXIT STAIR RISER DIAGRAM SHEET NO. 2
E-307.00	ELECTRICAL CORRIDOR & EXIT STAIR RISER DIAGRAM SHEET NO. 3
E-308.00	ELECTRICAL PART RISER DIAGRAM
E-401.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 1
E-402.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 2
E-403.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 3
E-404.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 4
E-405.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 5
E-406.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 6
E-407.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 7
E-408.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 8
E-409.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 9
E-410.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 10
E-411.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 11
E-412.00	ELECTRICAL SCHEDULE & DETAIL SHEET NO. 12
E-600.00	ELECTRICAL LIGHTNING PRTECTION LAYOUT
E-601.00	ELECTRICAL LIGHTNING PROTECTION DETAILS
E-602.00	ELECTRICAL UNDERGROUND LIGHTNING PLAN DETAIL

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1 2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

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

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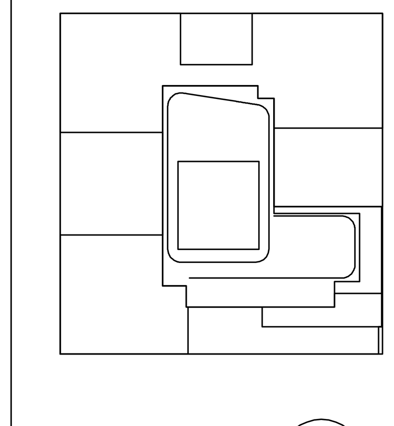

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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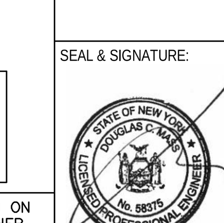
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SYMBOLS, ABBREVIATION, DRAWING LIST AND ENERGY CODE COMPLIANCE NOTES

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-001.00
DWG NO.
000F

NOTES & SUPPLEMENTARY SPECIFICATIONS:

1. THE WORK OF THIS DIVISION SHALL INCLUDE ALL LABOR, MATERIALS AND APPARATUS NECESSARY FOR THE COMPLETION OF ALL ELECTRICAL WORK ASSOCIATED WITH FIRE ALARM WORK AS SHOWN ON THE DRAWINGS AND AS HEREINAFTER SPECIFIED, LEFT READY FOR SATISFACTORY OPERATION.

2. ANY APPLIANCE, MATERIALS OR LABOR THAT ARE OBVIOUSLY A PART OF THE ELECTRICAL WORK NECESSARY TO ITS PROPER PERFORMANCE, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL WITHOUT ADDITIONAL COST.

3. WITHOUT INTENDING TO LIMIT AND/OR RESTRICT THE VOLUME OF WORK REQUIRED AND SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR, THE WORK OF THIS DIVISION SHALL, IN GENERAL COMPRISE THE FOLLOWING:

   A. COMPLETE POWER BRANCH WIRING
   B. CONFORMING TO ALL EXISTING CONDITIONS AT THE SITE.
   C. REMOVALS AS REQUIRED.

SHOP DRAWINGS

SUBMIT TO ENGINEER COMPLETE SHOP DRAWINGS, CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA, FOR ALL MAJOR ELEMENTS OF THE ELECTRICAL WORK FOR REVIEW, CHECKING AND APPROVAL. NO EQUIPMENT SHALL BE FABRICATED, DELIVERED, ERECTED OR RECONNECTED OTHER THAN FROM DRAWINGS APPROVED BY THE ENGINEER. SHOP DRAWINGS IN THE NUMBER DIRECTED SHALL BE SUBMITTED FOR NOT LESS THAN THE FOLLOWING:

1. WIRING DEVICES AND PLATES.

2. SPECIAL SYSTEMS, EQUIPMENT & DEVICES AS INDICATED ON DRAWINGS.

IT SHALL BE UNDERSTOOD THAT APPROVAL OF SHOP DRAWINGS WILL NOT BIND THE ENGINEER OR THE OWNER TO THE FINAL ACCEPTANCE OF SUCH EQUIPMENT AS THE COMPLETED INSTALLATION AND TEST OF EQUIPMENT AS A WHOLE MUST BE PROVIDED AND GUARANTEED HEREIN AS SPECIFIED.

MATERIALS

1. GENERAL

   A. ELECTRIC RACEWAY AND SUPPORTING SYSTEMS SHALL BE FURNISHED AND INSTALLED COMPLETE, WITH ALL MATERIALS, FITTINGS, CONNECTIONS AND ACCESSORIES NECESSARY TO PROVIDE IN EACH INSTANCE, A COMPLETE OPERATING INSTALLATION, AS DESCRIBED HEREIN, AND INDICATED ON THE DRAWINGS, AND/OR AS APPROVED BY BUILDING OWNER.

   B. THE DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, FITTINGS, AND BOXES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE JOB CONDITIONS INCLUDING STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL HIS WORK AND ARRANGE SAME ACCORDINGLY, FURNISHING SUCH FITTINGS, BOXES AND SIMILAR ITEMS AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.

2. WIRING

   A. ALL WIRE AND CABLE, AS INDICATED, SPECIFIED OR REQUIRED, SHALL BE INSTALLED COMPLETE, INCLUDING ALL NECESSARY SPLICES AND CONNECTIONS TO EQUIPMENT DEVICES.

   B. ALL WIRE SHALL BE COPPER OF NO LESS THAN 98% CONDUCTIVITY. NO. 8 WIRE AND LARGER SHALL BE SINGLE CONDUCTOR STRANDED WITH 600 VOLT TYPE THHN POLYVINYLCHLORIDE INSULATION. NO. 10 WIRE AND SMALLER SHALL BE SOLID.

   C. WIRE AND CABLE SHALL BE NO. 12 AWG MINIMUM, UNLESS OTHERWISE INDICATED OR SPECIFIED.

   D. CONDUCTORS OPERATING IN THE RANGE OF 100 TO 250 VOLTS TO NEUTRAL AND EXTENDING IN EXCESS OF 75 FEET FROM THE POINT OF SUPPLY TO THE FIRST OUTLET SHALL BE #10 AWG COPPER TO THE FIRST OUTLET.

   E. BRANCH CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ON MULTI-CIRCUIT HOMERUNS ARE FOR IDENTIFICATION OF DEVICES OR EQUIPMENT THEY ARE CONNECTED TO AND DO NOT NECESSARILY REFER TO PANELBOARD CIRCUIT NUMBERS. ASSIGNMENT OF BRANCH CIRCUIT NUMBERS SHALL BE PART OF THIS WORK AND INDICATED ON PANEL DIRECTORIES. BRANCH CIRCUITS SHALL BE CONNECTED TO CIRCUITS ON PANELBOARDS SO AS TO SECURE A REASONABLE BALANCE ON THE THREE PHASES. WHERE MORE THAN ONE CIRCUIT, WITH A COMMON NEUTRAL IS INSTALLED IN THE SAME CONDUIT, EACH PHASE WIRE SHALL BE CONNECTED TO A DIFFERENT LEG OF THE SYSTEM.

   F. ALL CONDUCTORS SHALL BE COLOR CODED THROUGHOUT AND NUMBERED AND TAGGED AT EACH JUNCTION BOX, PULL BOX, PANEL AND DEVICE WITH SUITABLE FIREPROOF TAGS OR ADHESIVE IDENTIFICATION BANDS.

3. CONDUIT

   A. EXCEPT AS OTHERWISE INDICATED OR SPECIFIED, ALL WIRING INSIDE AND FOUR FEET (4') BEYOND CONFINES OF ELECTRIC CLOSET SHALL BE INSTALLED IN EMT.

   B. ELECTROGALVANIZED STEEL ELECTRICAL METALLIC TUBING NO LARGER THAN 4" I.D. MAY BE USED CONCEALED IN WALLS, ABOVE HUNG CEILING.

   C. LIQUIDTIGHT FLEXIBLE, GALVANIZED STEEL CONDUIT, WITH CONTINUOUS COPPER BONDING CONDUCTOR, SHALL BE USED FOR CONNECTIONS, NOT EXCEEDING 18" IN LENGTH, TO MOTORS AND AT OTHER LOCATIONS WHERE VIBRATION,MOVEMENT OR OIL VAPOR ATMOSPHERES ARE ENCOUNTERED.

   D. UNLESS OTHERWISE INDICATED OR SPECIFIED,ALL WIRING SHALL BE INSTALLED CONCEALED IN CEILINGS, WALLS, SLABS, PIPE CHASES AND FURRED SPACES WHENEVER POSSIBLE.

   E. CONDUIT AND FITTINGS SHALL CONFORM TO LATEST ACCEPTABLE NEW YORK CITY CODE AND ALL OTHER CODES HAVING JURISDICTION.

   F. CONDUIT SHALL BE 3/4" TRADE SIZE MINIMUM, UNLESS OTHERWISE INDICATED OR SPECIFIED.

   G. ALL CONDUITS WHICH ARE TO REMAIN EMPTY FOR FUTURE INTRODUCTION OF CONDUCTORS SHALL BE PROVIDED WITH A #12 NYLON DRAG WIRE WITH IDENTIFICATION TAG AT BOTH ENDS.

4. JUNCTION BOXES

   A. JUNCTION BOX AND PULL BOXES SHALL BE PROVIDED WHERE INDICATED OR SPECIFIED AND WHERE NECESSARY TO FACILITATE THE INSTALLATION OF EQUIPMENT OR WIRING.

5. FASTENINGS, SUPPORTS AND HANGERS

   A. ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING CONSTRUCTION USING APPROVED CLAMP SCREWS WITH INSERTS OR EXPANSION ANCHORS, EXPANSION BOLTS AND TOGGLE BOLTS "IN NO CASE SHALL THE HUNG CEILING MEMBERS OR WIRES BE USED TO SUPPORT CONDUIT".

   B. ALL FASTENINGS, SUPPORTS, CLAMPS, ANCHORS, AND SIMILAR ITEMS SHALL BE OF TYPE SUITABLE FOR THE PURPOSE.

6. WIRING DEVICES

   ALL DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE, U.L. APPROVED.

   A. RECEPTACLE, 20 AMP. 2 POLE, 3 WIRE DUPLEX 125 VOLT GRD. TYPE.

   B. SPECIAL PURPOSE OUTLETS SHALL BE FURNISHED AS SPECIFIED ON DRAWINGS.

   C. DEVICE PLATES, COLOR AND FINISH SHALL BE AS SELECTED BY ARCHITECT.

   D. COLOR AND TYPE OF ALL DEVICES SHALL BE APPROVED BY ARCHITECT PRIOR TO PURCHASE/INSTALLATION.

7. SAFETY SWITCHES

   A. SAFETY SWITCHES SHALL BE OF SIZE NOTED ON THE DRAWINGS, OR AS REQUIRED, FUSIBLE OR NON FUSIBLE AND EACH CONTAINED IN A GENERAL PURPOSE NEMA I ENCLOSURE. ALL SWITCHES SHALL BE HEAVY DUTY TYPE AND SHALL HAVE QUICK MAKE, QUICK BREAK MECHANISM.

   B. ALL SWITCHES SHALL BE OF PROPER HORSEPOWER RATING AS APPLICABLE AND HAVE DUAL INTERLOCKS DESIGNED TO INTERLOCK THE SWITCH BOX DOOR WITH THE SWITCH OPERATING MECHANISM.

8. FUSES

   EXCEPT AS OTHERWISE SPECIFIED, A CARTRIDGE OR PLUG FUSE SHALL BE INSTALLED IN EACH FUSE GAP IN THE WORK. FUSES SHALL BE DUAL ELEMENT NON-RENEWABLE TYPE.

9. GROUNDING

   A. ALL ENCLOSURES AND OTHER NON CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS AND EQUIPMENT GROUND BUSES SHALL BE EFFECTIVELY GROUNDED TO THE BUILDING GROUNDING SYSTEMS THROUGH THE SYSTEM GROUND CONDUCTORS, METALLIC CONDUITS AND OTHER RACEWAYS AND ENCLOSURES FOR CONDUCTORS SHALL BE METALLICALLY JOINED TOGETHER INTO A CONTINUOUS ELECTRICAL CONDUCTOR, AS TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.

   B. EQUIPMENT LOCATED REMOTELY FROM THE GROUND CONDUCTORS SHALL BE GROUNDED TO THE NEAREST AVAILABLE COLD WATER PIPING, MOTOR FRAMES SHALL BE GROUNDED THROUGH THEIR CONDUITS.

   C. EQUIPMENT GROUNDING CONDUCTOR APPLICATION: COMPLY WITH NFPA 70, AS AMENDED BY STATE AND LOCAL CODES, FOR SIZES AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS.

      1. RACEWAY MAY BE USED AS THE EQUIPMENT GROUND CONDUCTOR WHERE FEASIBLE AND PERMITTED BY CODE FOR FEEDERS AND BRANCH CIRCUITS EXCEPT AS OTHERWISE INDICATED OR AS DESCRIBED ELSEWHERE IN THIS SECTION.

   D. THE NEUTRAL BAR OF EACH INDIVIDUALLY ENCLOSED SERVICE SWITCH SHALL BE BONDED TO ITS ENCLOSURE ON THE LINE SIDE OF A REMOVABLE LINK (INCLUDED THEREIN), AND CONNECTED TO THE MAIN GROUNDING ELECTRODE BY MEANS OF INSULATED GROUNDING ELECTRODE CONDUCTORS RUN IN INTERMEDIATE METALLIC CONDUIT AND SIZED AS PER CODE.

   E. THE MAIN GROUNDING ELECTRODE SHALL BE AN ACCESSIBLE POINT ON THE NEAREST METALLIC MAIN WATER SERVICE PIPE. CONNECTION SHALL BE MADE ON THE STREET SIDE OF THE MAIN VALVE UTILIZING A GROUND CLAMP OF A TYPE SPECIFICALLY MANUFACTURED FOR THE PURPOSE. BONDING JUMPERS SHALL BE PROVIDED AROUND THE WATER METERS (IF PROVIDED) AND AROUND INSULATING JOINTS AND/OR SECTIONS, UTILIZING CONDUCTORS SIZED AS PER CODE AND RUN IN RGS CONDUIT.

   F. THE WATER PIPE GROUND SHALL BE SUPPLEMENTED BY AN ADDITIONAL "MADE" ELECTRODE CONSISTING OF BURIED GROUND RODS LAID ON 3 INCH (75 MM) CHARCOAL BED, AND PROVIDED IN SUFFICIENT QUANTITY SO AS TO HAVE A MEASURED RESISTANCE TO GROUND OF NOT MORE THAN 25 OHMS. ESTABLISH A BONDING CONNECTION FROM THE "MADE" ELECTRODE CONSISTING OF GREEN INSULATED CONDUCTORS RUN IN RGS CONDUIT AND SIZED AS PER CODE.

   G. THE NEUTRAL OF SECONDARY WINDING OF EACH LOW VOLTAGE (I.E., LESS THAN 600 VOLTS) TRANSFORMER SHALL BE GROUNDED TO THE GROUNDING ELECTRODE AS SPECIFIED HEREINAFTER BY MEANS OF AN INSULATED GROUNDING CONDUCTOR SIZED AS PER CODE AND RUN IN RGS. THE NEUTRAL OF EACH TRANSFORMER SHALL BE BONDED TO THE TRANSFORMER ENCLOSURE BY MEANS OF AN INSULATED CONDUCTOR SIZED AS PER CODE. IF NOT FACTORY INSTALLED THE JUMPER SHALL BE FIELD INSTALLED WITHIN THE TRANSFORMER ENCLOSURE.

   H. BOND METALLIC CONDUITS CONTAINING GROUNDING ELECTRODE CONDUCTORS AND MAIN BONDING CONDUCTORS TO THE GROUND BUS SERVICE ENCLOSURE AND/OR GROUNDING ELECTRODE AT BOTH ENDS OF EACH RUN UTILIZING GROUNDING BUSHINGS AND JUMPERS. BONDING JUMPERS SHALL BE SIZED EQUAL TO THE GROUNDING ELECTRODE CONDUCTORS.

   I. WHERE SPECIFICALLY NOTED ON THE DRAWINGS, OR DESCRIBED HEREINBEFORE IN THIS SECTION, INCLUDE INSULATED EQUIPMENT AND RACEWAY GROUNDING CONDUCTORS RUN WITHIN THE RACEWAYS. WHERE INSULATED EQUIPMENT GROUNDING CONDUCTORS REQUIRED FOR FEEDERS HAVE NOT BEEN INCLUDED IN THE QUANTITIES OF CONDUCTORS INDICATED ON THE DRAWINGS, INCORPORATE SUCH CONDUCTORS IN ACCORDANCE WITH THE ELECTRICAL CODE. ADJUST CONDUIT SIZING IF REQUIRED.

10. INSTALLATION

   A. ALL ELECTRICAL WORK TO BE PERFORMED SHALL COMPLY WITH THE LATEST N.Y.C. ELECTRICAL CODE AND ALL OTHER CODES HAVING JURISDICTION.

   B. CONTRACTOR SHALL CHECK ALL EXISTING CONDITIONS IN THE FIELD. RELOCATE ALL EXISTING WIRING WHICH INTERFERES WITH NEW INSTALLATION AND MUST BE MAINTAINED.

   C. ANY NECESSARY SERVICE SHUTDOWN SHALL BE AT A TIME CONVENIENT TO THE BUILDING OWNER AND AFTER SUFFICIENT TIME HAS BEEN GIVEN HIS APPROVAL OBTAINED.

   D. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ADDITIONAL CONDUITS, CABLES AND PULL BOXES AS REQUIRED FOR ROUTING OF CONDUITS AND PULLING OF CABLES.

   E. ALL PENETRATIONS THROUGH SLABS AND FIRE RATED PARTITIONS SHALL BE FIRE STOPPED USING APPROVED METHOD TO MAINTAIN THE FIRE RESISTANCE RATING.

   F. ELECTRICAL CONTRACTOR SHALL FILE AND OBTAIN AN APPROVED ELECTRICAL CERTIFICATE FROM THE NYC DEPARTMENT OF BUILDINGS ELECTRICAL DIVISION (FORMER BUREAU OF ELECTRICAL CONTROL).

   G. LOCATION OF ALL ELECTRICAL EQUIPMENT IS APPROXIMATE, EXACT LOCATION TO BE VERIFIED IN THE FIELD.

   H. CONTRACTOR SHALL CONSULT WITH BUILDING MANAGER AND CONFORM WITH ALL BUILDING REQUESTS.

11. EXISTING ELECTRICAL WORK

   THE PREMISES OF THE PROJECT CONTAINS EXISTING ELECTRICAL INSTALLATIONS.

   A. EXCEPT WHERE IT IS INTEGRATED INTO A NEW INSTALLATION, MAINTAIN ALL EXISTING ELECTRICAL WORK OPERATING AND INTACT BY INCLUDING ALL PROCEDURES AND MATERIALS.

   B. NO PORTION OF EXISTING ELECTRICAL INSTALLATIONS SHALL BE USED TO MAKE UP ANY OF THE REQUIRED WORK ACCEPT AS FOLLOWS:

   – EQUIPMENT AND DEVICES, AS SPECIFICALLY INDICATED.

   – RACEWAYS (WITH ASSOCIATED JUNCTION BOXES AND PULL BOXES) ONLY FOR FEEDERS AS SPECIFICALLY INDICATED.

   – RACEWAYS (WITH ASSOCIATED JUNCTION BOXES AND PULL BOXES) AND CABLES FOR FEEDERS AS SPECIFICALLY INDICATED.

   – CONCEALED RACEWAYS (WITH ASSOCIATED OUTLET BOXES) ONLY FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY AND MISCELLANEOUS SYSTEM CIRCUITRY TO THE MAXIMUM EXTENT POSSIBLE.

   C. SPECIFICATIONS PERTAINING TO EQUIPMENT AND DEVICES, HEREINAFTER INCLUDED, APPLY TO NEW WORK. WHERE IT IS REQUIRED THAT ITEMS BE MADE UP WITH COMPONENTS WHICH ARE BOTH NEW AND EXISTING, IT SHALL BE INTERPRETED THAT THE SPECIFICATIONS GOVERN ONLY AS THEY ARE APPLICABLE TO THE NEW COMPONENTS.

   D. SPECIFICATIONS PERTAINING TO WIRING METHODS, HEREINAFTER INCLUDED, APPLY ONLY TO THOSE PORTIONS OR ELEMENTS OF REQUIRED CIRCUITRY WHICH ARE SPECIFICALLY INDICATED AS BEING NEW OR FOR WHICH THE USE OF EXISTING MATERIALS IS NOT POSSIBLE.

   E. ANY EXISTING ELECTRICAL OR FA WORK WHICH IS PULLED OUT OR CUT AWAY IN COMPLIANCE WITH THE ABOVE REQUIREMENTS SHALL BE REMOVED FROM THE SITE AS IF IT WERE RUBBISH.

   F. DURING DEMOLITION PROCEDURES, PROVIDE ALL NECESSARY PROTECTION FOR EXISTING ELECTRICAL & FA WORK REQUIRED FOR REUSE.

12. BASIC REQUIREMENTS

   A. STUDY OTHER SECTIONS OF THE SPECIFICATIONS AND DRAWINGS. COOPERATE WITH OTHER TRADES. COORDINATE WORK TO AVOID INTERFERENCES. WHEN IN DOUBT, CONSULT ENGINEER BEFORE PROCEEDING WITH WORK.

   B. PERFORM ALL NECESSARY CUTTING AND PATCHING.

   C. OBTAIN PERMISSION OF BUILDING ENGINEER BEFORE CUTTING STRUCTURAL MEMBERS.

   D. NOTIFY ENGINEER OF CONFLICTS BETWEEN DRAWINGS AND SPECIFICATIONS BEFORE BIDDING. THE ENGINEER'S DECISION WILL GOVERN EITHER BEFORE OR AFTER BIDDING.

   E. ELECTRICAL, F/A, ARCS DRAWINGS ARE DIAGRAMMATIC EXCEPT WHERE DIMENSIONED. DO NOT SCALE. CONSULT ENGINEER IN CASE OF DOUBT OR CONFLICT. UNLESS NOTED, FIXED DIMENSIONS ARE BASED ON THE PRODUCT OF ONE MANUFACTURER, VERIFY DIMENSIONS WITH THE SHOP DRAWINGS OF THE MATERIALS ACTUALLY APPROVED OR PURCHASED.

   F. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL COST AND DELAYS IN THE WORK RESULTING FROM SUBSTITUTION UNDER THIS DIVISION; INCLUDING, BUT NOT LIMITED TO, ANY CHANGES INDECISION, INSTALLATION, OR THE WORK OF OTHER TRADES.

13. IDENTIFICATION

   A. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TYPE WRITTEN DIRECTORIES IN ALL NEW AND EXISTING PANELS INDICATING TYPE AND LOCATION OF LOAD BEING SERVED BY INDIVIDUAL CIRCUIT BREAKERS.

   B. ALL PARTS OF EQUIPMENT, SUCH AS PANELS, JUNCTION BOXES, SAFETY SWITCHES MOTOR STARTERS, CIRCUIT BREAKERS, AND SIMILAR ITEMS SHALL BE IDENTIFIED BY NAME, AT SUPPLY END, "LOAD SUPPLIED" AT LOAD END, "LOAD SUPPLIED FROM".

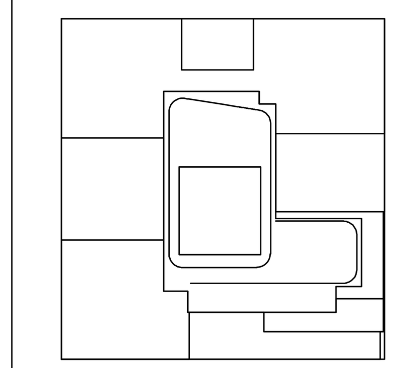
14. GUARANTEE

   ALL ELECTRICAL, F/A EQUIPMENT SHALL BE GUARANTEED FOR ONE (1) YEAR. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL MANUFACTURER'S WARRANTIES AND GUARANTEES FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS AND TURN SAME OVER TO OWNER.

15. TEMPORARY LIGHT AND POWER

   PROVIDE A TEMPORARY LIGHT AND POWER SYSTEM (AS PART OF THIS CONTRACT) ADEQUATE FOR THE REQUIREMENTS OF ALL TRADES DURING CONSTRUCTION.

DEPT OF BLDGS 420655954 Job Number
ES843288737 Scan Code



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SPECIFICATIONS

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-002.00
DWG NO.
00F

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

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

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E002.dwg SAVED ON 10/12/2017 12:34 PM PLOTTED ON 10/12/2017 1:17 PM PLOTTED BY VALITE, VAN

LIGHTING SPECIFICATION

FixtureType	Fixture Specification	Lamp Specification	Fixture Wattage	Load Type	Fixture Voltage	Est Qty. or LF	Accessories	Mounting
L01	Philips Lightolier L3NE1 (Frame-In Kit) / L3089027NF (Light Engine) / L3RDW	Integral 2700K LED, 90 CRI, 800 lm	12w	ELV	120	1		
	3" Round Downlight, White Trim							
L02	Philips Lightolier L3NE1 / L3089027NF / L3RSW	Integral 2700K LED, 90 CRI, 800 lm	12w	ELV	120	1		
	3" Round Lensed Downlight, white finish							
L06	Juno Lighting Group-ACULUX IC412LP-927-F-1 (Housing) / 4308N-WH-FM (Trim)	Integral 2700K LED, 90 CRI, 1200 lm	15.1w	Phase (FWD/REV)	120	1	Requires Flush Mount Adapter	
	3 1/4" Recessed Adjustable LED Downlight. 35 degree Flood beam optic. White beveled trim.							
L07	Juno Lighting Group-ACULUX TC420LP-927-N-1 (Housing) / 4308N-WH-FM (Trim)	Integral 2700K LED, 90 CRI, 2000 lm	27w	Phase (FWD/REV)	120	1	Requires Flush Mount Adapter	
	3 1/4" Recessed Adjustable LED Downlight. 24 degree Narrow Flood beam optic. White beveled trim.							
L08	iGuzzini I.P310-SPIxxx-47	Integral 2700K LED, 90CRI, 100 lm	2w	0-10V	120	1		
	Recessed LED Downlight, 1.25" diameter, 24 degree beam optic. Finish: White trim / black baffle							
L09	Pinnacle Architectural Lighting AD22A-3034-FL-120-1-W	Integral 3000K LED, 80+ CRI, 3275 lm	38w	0-10V	120	1		Recessed
	2' x 2' Recessed Troffer 1) Verify ceiling thickness and finish with Architect prior to ordering.							
L10	Philips Lightolier S7R-9-27K-10	Integral 2700K LED, 90 CRI, 1000 lm	14.4w		120	1		Surface
	7" Round Surface Mount Downlight. Finish: White							
L11	Bartco BLT205-23-30-5-R-S1-SM-WH	Integral 3000K LED, 84 CRI	9.3w	NON-DIM	120	1		Surface
	Rectilinear steel LED fixture with round drop-down lens and occupancy sensor. Nominal dims: 1-25/32" W x 22-1/4" L							
L12	Tech Lighting 700CQ-L-S-LED	Integral 2700K LED, 1000 lm	20w	ELV	120	1		
	Round 11" Surface Mount Ceiling Downlight. Finish: Satin Nickel							
L13	Kelly Wearstler KW 4012	Green Creative 40746 -9A16G4DIM/927 A19 LED 9W CRIsp series Dimming, 2700K, 92 CRI, 800	18w	ELV	120	1		
	14" Diameter Round flush mount, antique burnished brass finish							
L14	Decorative Pendant TBD		60w	INC	120V	1		
L15	Rejuvenation A0367 (MOD)	Green Creative 40746 -9A16G4DIM/927 A19 LED 9W CRIsp series Dimming, 2700K, 92 CRI, 800	18w	NON-DIM	120	1		Surface
	18" Round Surface Mount Downlight. Finish: brushed satin / linen 1) Modify fixture to custom depth of 6" maximum							
L20	Optic Arts FLEXDC-40-27-24-44-XX (Length)	Integral 2700K LED, 90+ CRI, 367 lm/ft	4.4w/LF	MLV	24VDC	1 LF	CHS-S-1715 (Channel), CHS-12mm-CF (Lens)	
	Linear LED Tape in deep channel with frosted lens. Nominal dims: 0.68" W x 0.61" H							
L20X	Optic Arts 961-24DCR	N/A	96w	MLV	120	1		
	Remote 96W LED Driver, 120V Primary, 24V Secondary. Nominal DImensions: 3.37" L X 11.25" W X 3.25" H							
L21	Optic Arts FLEXAC-65-27-120-45-XX (length)	Integral 2700K LED, 90+CRI, 354 lm/ft	4.5w/LF	ELV	120	1 LF	CHW-S-3535 (Channel)	
	Wet-rated linear LED strip. Nominal dimensions: 0.59" x 0.26"							
L22	Optic Arts FLEXAC-65-27-120-45-XX (length)	Integral 2700K LED, 90+CRI, 354 lm/ft	4.5w	ELV	120	1	CHW-S-3535 (Channel)	
	Wet-rated linear LED strip. Nominal dimensions: 0.59" x 0.26"							
L23	LED Linear VarioLED Flex HYDRA HD10-W9-27-XX (Length)	Integral 2700K LED, 90+ CRI, 421 lm/ft	2.9w/LF	0-10V	24VDC	1 LF	Channel 004, Linear Optic 10 degree 004 Lens	
	Linear LED tape in aluminum channel, nominal dims: 0.77" x 0.77" Driver: Driver as required							
L24	Philips Ledalite 39C1-L-C-G-Q-S-3-XX (Length) - 7-1	Integral 3000K LED, 80+ CRI, 550 lm/ft	7w/LF		120	1 LF		
	Recessed Continuous Linear LED, Mesooptic lens, trimless. Nominal width: 3"							
L25	Optic Arts FLEXDC-40-27-24-88-XX (Length)	Integral 2700K LED, 90+ CRI, 762 lm/ft.	8.8w/LF	MLV	24VDC	1 LF	CHW-S-2010 (Channel), CHW-S-2010-CF (Lens)	
	Linear LED tape in low aluminum channel with frosted lens.							
L25X	Optic Arts 961-24DCR	N/A	96w	MLV	120	1		
	Remote 96W LED Driver, 120V Primary, 24V Secondary. Nominal DImensions: 3.37" L X 11.25" W X 3.25" H							
L26	Optic Arts FLEXDC-40-27-24-30-XX (Length)	Integral 2700K LED, 90+ CRI, 262 lm/ft	3w/LF	MLV	24VDC	1 LF	CHS-S-1208 (Channel), CHS-12mm-CF (Lens)	
	Linear LED Tape in shallow aluminum channel with frosted lens. Nominal dims: 0.67" W x 0.31" H							
L26X	Optic Arts 961-24DCR	N/A	96w	MLV	120	1		
	Remote 96W LED Driver, 120V Primary, 24V Secondary. Nominal DImensions: 3.37" L X 11.25" W X 3.25" H							
L27	Luminii BOSW-XX(Lenth)-27K-HO-SI-C-BK-F1	Integral 2700K LED, 90+ CRI, 218lm/ft	5.2w/LF	NON-DIM	24VDC	1 LF		
	Linear LED Light with Satin Ice Lens, nominal dims: 0.60" x 0.60", black finish							
L27X	Luminii PSV-96-24V-U2ND-IP65	N/A	96w	NON-DIM	120	1		
	Remote Driver, wet-rated. Nominal dims: 9.5" x 4.12" x 2.3"							
L28	Interlux-FILIX FX OF-44-RXX-H-30-LL-24	Integral 3000K 85+CRI LED	6w	Phase (FWD/REV)	24VDC	1		Surface
	Linear LED Light Driver: Remote dimming LED driver Requires: Requires Power Supply: IL-JB-LED-24003-120V-DFPN (Lutron 5-40 W forward phase 1% Dimming power supply) 1) Verify required fixture lengths with final architectural drawings prior to ordering.							
L30	Optic Arts FLEXDC-40-27-24-44-10ft (Length)	Integral 2700K LED, 90+ CRI, 367 lm/ft	44w	MLV	24VDC	1	CHS-S-1715 (Channel), CHS-12mm-CF (Lens)	
	Linear LED Tape in deep channel with frosted lens. Nominal dims: 0.68" W x 0.61" H							

FixtureType	Fixture Specification	Lamp Specification	Fixture Wattage	Load Type	Fixture Voltage	Est Qty. or LF	Accessories	Mounting
L30X	Optic Arts 961-24DCR	N/A	96w	MLV	120	1		
	Remote 96W LED Driver, 120V Primary, 24V Secondary. Nominal DImensions: 3.37" L X 11.25" W X 3.25" H							
L31	Kelly Wearstler KW2115 (MOD)	Green Creative [97823 5.5B11DIM/827] candelabra base LED lamp, 2700K, 80 CRI, 500 lm (or	5.5w		120	1		
	Rectangular decorative sconce. Finish: Alabaster / antique-burnished brass. 1) Modify fixture to custom dimesions: 24" L x 5.25" W. Custom mounting to allow for horizontal positioning							
L32	Bega 33 224 - BLK	Integral 3000K LED, 80+ CRI, 414 lm	8.6w	0-10V	120	1		
	Exterior-rated wall mounted luminaire, black finish							
L33	Decorative Sconce TBD		100w	INC	120V	1		
L34	Allied Maker Flush Dome 13.5	Cree A19 LED Lamp, 2700K (Included)	9w	ELV	120	1		
	Flush-mount round decorative downlight. Nominal dimensions: 13.5" dia, 10" H. Finish: bronze, opal glass, bleached ash.							
L35	Boyd Lighting 10548	Integral 3000K LED, 90CRI, 600 lm	6w	NON-DIM	120	1		
	Decorative wall sconce in etched glass and satin brass finish							
L36	Michael Anastassiades Single Angle, 2013	G9 Frosted halogen bulb, 350 lm, 2800K	40w		120	1		
	Decorative pendant with blown opaline sphere and satin brass finish. Drop length: XX 1) Furnish fixture with UL or equivalent NRTL listing accepted by OSHA and the local jurisdiction. 2) Verify required fixture length with Architect prior to ordering							
L37	Roll&Hill Gridlock 4059	G9 Halogen Lamp, 3000K, 800 lm	60w		120	1		
	Brass chandelier, nominal dims: 30 w x 30 l x 16 h, plus 35" suspension							
L38	Lindsey Adelman Studio CBC.36.01.WTG	Integral micro LED, 2700K, 85 CRI, 100 lm	44w		120	1		
	Decorative chandelier with white and gold blown glass globes and brushed brass finish							
L39	Douglas and Bec 06 Line Pendant 2.0	E27 LED Candle lamp, 330-350 lm (included)	24w	ELV	120	1		
	Decorative pendant with glass globes. Blush globes, natural brass finish 1) Furnish fixture with UL or equivalent NRTL listing accepted by OSHA and the local jurisdiction.							
L40	Douglas and Bec Line Wall Mounted Light	E27 LED Candle lamp, 330-350 lm (Included)	4w	ELV	240	1		
	Decorative wall sconce with adjustable angled glass globe head. Blush glass / natural brass finish 1) Furnish fixture with UL or equivalent NRTL listing accepted by OSHA and the local jurisdiction.							
L41	Douglas and Bec Line Pendant 01	E27 LED Candle lamp, 330-350 lm (included)	4w	ELV	240	1		
	Decorative glass globe pendant, Finish: natural brass/blush glass 1) Furnish fixture with UL or equivalent NRTL listing accepted by OSHA and the local jurisdiction.							
L42	Decorative Pendant TBD		150w	INC	120V	1		
L43	Decorative Sconce TBD		100w	INC	120V	1		
L44	Decorative Pendant TBD		150w	INC	120V	1		
L45	Kelly Wearstler KW5550	Green Creative 40746 -9A16G4DIM/927 A19 LED 9W CRIsp series Dimming, 2700K, 92 CRI, 800	27w	ELV	120	1		
	Suspended decorative fixture. Nominal dimensions: 60.25" L x 6" W x 7.5" H, 31.5" overall height including suspension and canopy. Finish: Gild with frosted acrylic.							
L50	Eureka Lighting 10096-LED.1.30-120-XX	Integral 3000K LED, 85 CRI, 110 lm	1w	NON-DIM	120	1		Surface
	Wall-mounted sconce 1) Furnish fixture with Custom Color Finish							
L51	Philips Lightolier C2L-04-DL-27K-25-R-1 (Frame-in kit) / C2L-DL-WH-W (Reflector)	Integral 2700K LED, 80+ CRI, 400 lm	11w	ELV	120	1		
	1.75" Round Recessed Flanged LED Downlight, 25 degree beam optic. White Finish							
L52	Philips Lightolier L3NE1 / L3089027NF / L3RSW	Integral 2700K LED, 90 CRI, 800 lm	12w	ELV	120	1		
	3" Round Lensed Downlight, white finish							
L55	Luke Lamp Co. Custom Application	Linear LED, 2700K, 2.9w/ft	2.9w/LF	TBD	120V	1 LF		Ceiling Suspended
	Custom Rope Light							
L56	Juno Lighting Group-ACULUX TC420LP-927-N-1 (Housing) / 4301N-WH-FM (Trim)	Integral 2700K LED, 90 CRI, 2000 lm	27w	Phase (FWD/REV)	120	1	Requires Flush Mount Adapter	
	3 1/4" Recessed Adjustable Lensed LED Downlight. 24 degree Narrow Flood beam optic. White beveled trim.							
L60	Ecosense L50-E-48-12-30-90-MULT-15x65	Integral 3000K LED, 90 CRI, 806 lm/ft	48w	NON-DIM	120-277	1		
	Adjustable angle linear LED exterior grazer.							
L61	Bega 22 392 - BLK	Integral 3000K LED, 80+ CRI,	30w	0-10V	120-277	1		
	Wall Washer, Black finish							
L62	BK MN-LED-e37-SP-BLP-12-11-C	Integral 2700K LED, 90 CRI,	8.5w	MLV	12VAC	1		
	Exterior uplight, 20 degree beam optic, black finish							
L62X	BK TR150-120		150w	MLV	120	1		
	Remote 150W Magnetic Transformer. 120V Primary, 12V Secondary. Nominal Dims: 8" x 3-3/32" x 4-3/32"							

STATEMENT OF COMPLIANCE:

TO THE BEST OF MY KNOWLEDGE, AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH ASHRAE 90.1-2013 AS MODIFIED BY 2016 NYCECC APPENDIX CA.

NOTES (MANDATORY PROVISIONS:)

1. LIGHTING CONTROLS SHALL BE PROVIDED FOR EACH INTERIOR SPACE IN THE BUILDING AS INDICATED ON CONTRACT DRAWINGS. ALL OF THE LIGHTING CONTROL FUNCTIONS SHALL BE AS INDICATED IN BASIS OF DESIGN TABLE INDICATED ON CONTRACT DRAWINGS.
2. THERE SHALL BE ONE OR MORE MANUAL LIGHTING CONTROLS IN THE SPACE THAT CONTROLS ALL OF LIGHTING IN THE SPACE AS REQUIRED BY THE CODE.
3. THE CONTROL DEVICES SHALL BE READILY ACCESSIBLE AND LOCATED SO THE OCCUPANT CAN SEE THE CONTROLLED LIGHTING WHEN USING THE DEVICE. SWITCHES LOCATED IN REMOTE LOCATIONS FOR SAFETY OR SECURITY SHALL BE EQUIPPED WITH INDICATOR LIGHT AND SHALL BE CLEARLY LABELED TO IDENTIFY CONTROLLED LIGHTING.
4. SEQUENCE OF OPERATION FOR MOST LIGHTING FIXTURES IN THE SPACE SHALL BE MANUAL ON/ AUTO OFF.
5. MANUAL ON IS NOT REQUIRED WHERE MANUAL ON OPERATION OF THE GENERAL LIGHTING WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.
6. CORRIDORS: LIGHTING FIXTURES MARKED "EM" OR "EM/NL" FOR SAFETY AND SECURITY OF OCCUPANTS WILL BE ON 365/24/7. REMAINING LIGHTING FIXTURES BUT NOT NO MORE THAN 50% OF THE LIGHTING POWER FOR GENERAL CORRIDOR LIGHTING SHALL BE AUTOMATICALLY TURNED ON USING OCCUPANCY SENSORS UPON SENSING THE MOVEMENT. THE LIGHTING POWER IN THE CORRIDOR SHALL BE AUTOMATICALLY REDUCED AT LEAST 50% WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
7. THE GENERAL LIGHTING IN THE SPACES SHALL BE CONTROLLED AS AS TO PROVIDE AT LEAST ON INTERMEDIATE STEP IN LIGHTING POWER OR CONTINUOUS DIMMING IN ADDITION TO FULL ON/ FULL OFF. STEP SHALL BE BETWEEN 30% AND 70% OF FULL LIGHTING POWER.
8. IN ANY SPACE INDICATED ON CONTRACT DRAWINGS SUCH AS MAIN LOBBY WITH SIDELIGHTED AREAS (TYPICALLY PRIMARY SIDELIGHTED AREAS 150W OR GREATER, PRIMARY AND SECONDARY SIDELIGHTED AREAS 300W OR GREATER) THE GENERAL LIGHTING IN THESE SPACES SHALL BE CONTROLLED BY PHOTO CONTROLS WITH THE FOLLOWING CHARACTERISTICS:

   a. THE CALIBRATION ADJUSTMENTS SHALL BE READILY ACCESSIBLE.

   b. AT MINIMUM, GENERAL LIGHTING IN THE SECONDARY SIDELIGHTED AREA SHALL BE CONTROLLED INDEPENDENTLY OF THE GENERAL LIGHTING IN THE PRIMARY AREAS.

   c. THE PHOTOCONTROLS SHALL REDUCE ELECTRIC LIGHTING IN RESPONSE TO AVAILABLE DAYLIGHT USING CONTINUOUS DIMMING OR WITH AT LEAST ONE CONTROL POINT BETWEEN 50% AND 70% OF DESIGN LIGHTING POWER AND SECOND CONTROL POINT BETWEEN 20% AND 40% OF DESIGN LIGHTING POWER OR TO THE LOWEST DIMMING CONTROL TECHNOLOGY ALLOWS, AND THIRD CONTROL POINT THAT TURNS ALL OF THE CONTROLLED LIGHTING OFF.

9. BATHROOMS SHALL HAVE A SEPARATE CONTROL DEVICE INSTALLED TO AUTOMATICALLY TURN OFF THE BATHROOM LIGHTING WITHIN 30 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE BATHROOM. (NIGHT LIGHTING OF UP TO 5W PER BATHROOM IS EXEMPT FROM THIS REQUIREMENT).
10. ALL SUPPLEMENTAL TASK LIGHTING, INCLUDING PERMANENTLY INSTALLED UNDERSHELF OR UNDERCABINET LIGHTING, SHALL BE CONTROLLED IN ACCORDANCE WITH CODE SECTION 9.4.1.3 (3).
20. EXTERIOR LIGHTING CONTROL. LIGHTING FOR EXTERIOR APPLICATIONS SHALL MEET THE FOLLOWING REQUIREMENTS:

   a. ROOF LIGHTING SHALL BE CONTROLLED BY A DEVICE THAT AUTOMATICALLY TURNS OFF THE LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.

   b. ALL BUILDING FAÇADE AND LANDSCAPE LIGHTING SHALL BE AUTOMATICALLY SHUT OFF BETWEEN MIDNIGHT OR BUSINESS CLOSING, WHICHEVER IS LATER, AND 6 A.M. OR BUSINESS OPENING, WHICHEVER COMES FIRST, OR BETWEEN TIMES ESTABLISHED BY THE AUTHORITY HAVING JURISDICTION.

   c. LIGHTING NOT SPECIFIED IN (B) AND LIGHTING FOR EXTERIOR SIGNAGE (IF ANY) SHALL BE CONTROLLED BY A DEVICE THAT AUTOMATICALLY REDUCES THE CONNECTED LIGHTING POWER BY AT LEAST 30% FOR AT LEAST ONE OF THE FOLLOWING CONDITIONS:

   - FROM 12 MIDNIGHT OR WITHIN ONE (1) HOUR OF THE END OF BUSINESS OPERATIONS, WHICHEVER IS LATER, UNTIL 6 A.M. OR BUSINESS OPENING, WHICHEVER IS EARLIER
   - DURING ANY PERIOD WHEN NO ACTIVITY HAS BEEN DETECTED FOR A TIME OF NO LONGER THAN 15 MINUTES

   ALL TIME SWITCHES WILL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST TEN HOURS.

21. PER SECTION 9.4.3 (NYC), INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5W PER FACE.
22. LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTION.
23. THE INDIVIDUAL(S) RESPONSIBLE FOR THE FUNCTIONAL TESTING SHALL NOT BE DIRECTLY INVOLVED IN EITHER THE DESIGN OR CONSTRUCTION OF THE PROJECT AND WILL PROVIDE DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA.
24. AUTOMATIC RECEPTACLES CONTROL IN BACK OF THE HOUSE AREAS: AT LEAST 50% OF ALL 125-VOLT 15 AND 20 AMP RATED RECEPTACLES IN ALL BACK OF THE HOUSE PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAKROOMS, CLASSROOMS (IF ANY) AND INDIVIDUAL WORKSTATIONS. THESE RECEPTACLES SHALL BE CONTROLLED BY AN OCCUPANT SENSOR THAT SHALL RECEPTACLE OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
25. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.
26. ALL CONTROLLED RECEPTACLES SHALL BE UNIFORMLY DISTRIBUTED THROUGH THE SPACE.
27. ELECTRICAL MONITORING:

AS RESIDENTIAL COMMON AREAS EXCEED 10,000SF TOTAL, ADDITIONAL SUBMETERING WILL BE REQUIRED AT THE BASE BUILDING ELECTRIC METER FOR THE FOLLOWING ELECTRICAL USES:

   A. TOTAL ELECTRICAL ENERGY
   B. HVAC SYSTEMS
   C. INTERIOR LIGHTING
   D. EXTERIOR LIGHTING
   E. RECEPTACLE CIRCUITS

28. PER NOTE (27) ABOVE, SUBMETERS WILL REPORT BACK TO BUILDING MANAGEMENT SYSTEM (BMS) EVERY 15 MINUTES IN ACCORDANCE WITH SECTION 8.4.3.2.
29. THE BUILDING WILL BE MASTER METERED PROVISIONS WILL BE MADE TO DETERMINE THE ELECTRICAL ENERGY CONSUMED BY EACH UNIT BY SEPARATELY SUBMETERING OF INDIVIDUAL DWELLING UNITS.
30. ELEVATOR SECTION SHALL COMPLY WITH SECTION 10.4.3

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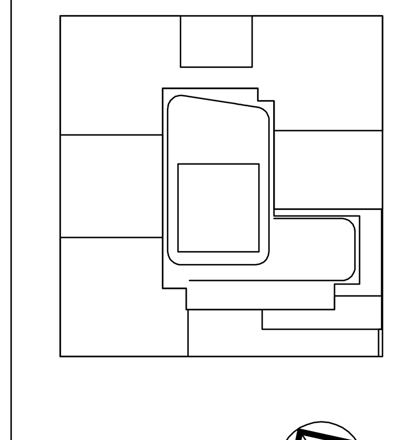
DEPT OF BLDGS 420655954 Job Number

ES891468421 Scan Code



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
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DOB STAMPS & SIGNATURES:

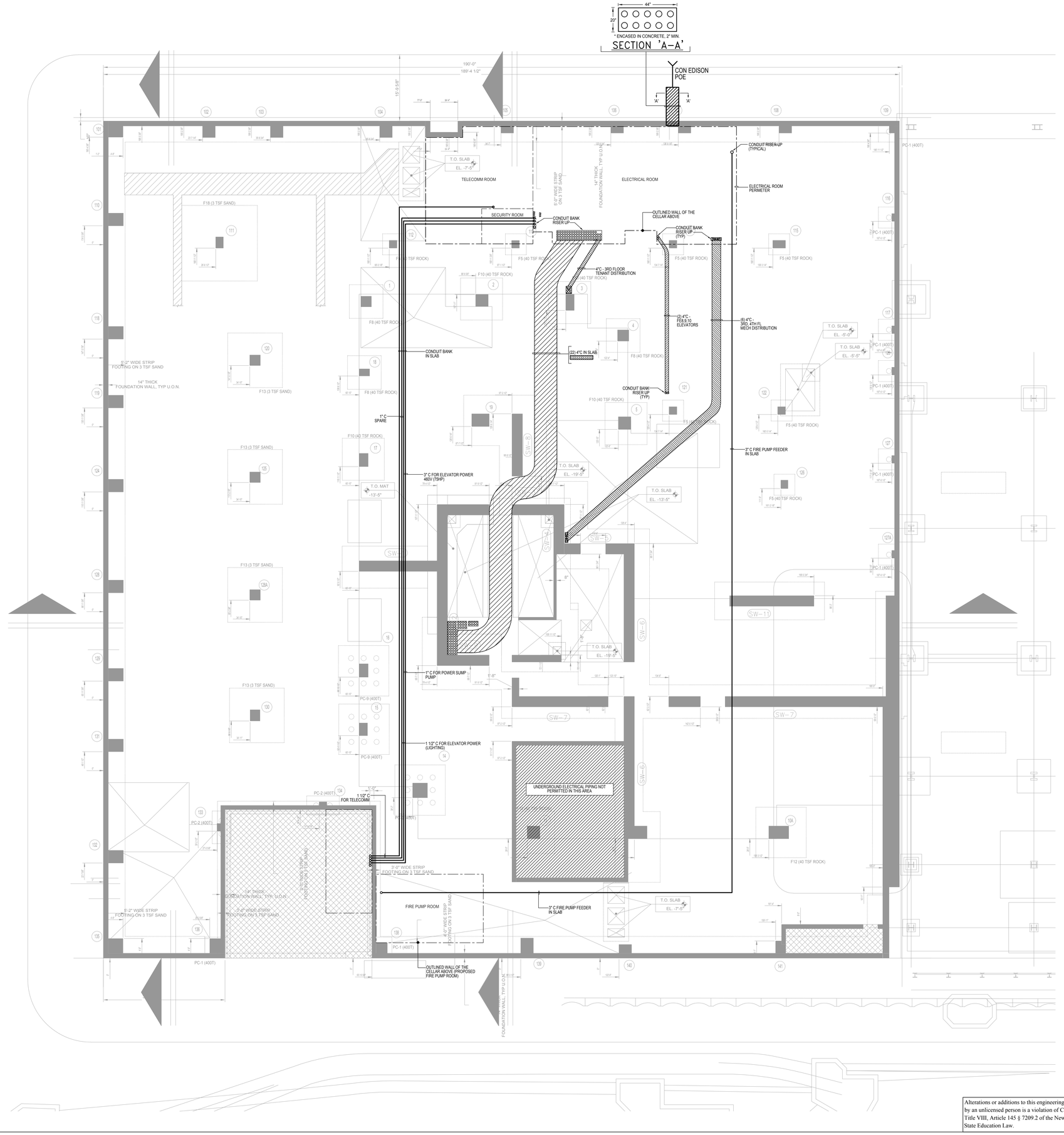
DWG TITLE:
ELECTRICAL
LIGHTING SPECIFICATIONS AND ENERGY CODE COMPLIANCE NOTES

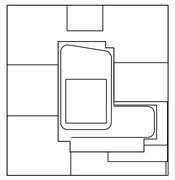
SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE

E-003.00

DWG NO.
OF





KEY PLAN

NOTES:

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	03/24/2017	50% CD SUBMISSION SET
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	02/05/2016	DOB FILING SET

Number: Date: Revision:

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
UNDERGROUND POWER PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. KING · No. 68375 · LICENSED PROFESSIONAL ENGINEER

DATE:	09/15/2017
PROJECT #:	150318
SCALE:	1/8" = 1'-0"

E-099.00
DWG NO.

0 OF 0

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FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E099 (UNDERGROUND).dwg SAVED ON 10/11/2017 4:37 PM PLOTTED ON 10/12/2017 1:18 PM PLOTTED BY VALITE, VAN

DEPT OF BUILDINGS 420555954 Job Number
ES400740215 Scan Code

PROPERTY LINE

44TH ROAD

PROPERTY LINE

LOT LINE

SECTION 'A–A'

* ENCASED IN CONCRETE, 2" MIN.

44"
20"

ELECTRICAL SERVICE (SEE ELECTRICAL DRAWINGS)

2" RIGID INSULATION (TYP.)

14" FOUNDATION WALL (SEE STRUCTURAL DRAWINGS)

4" DIA. GAS PIPES UP
4" DIA. WP
4X2X8 SLT PIT T.O.S= 7'-0"
4X4X8 SUMP PUMP PIT T.O.S= 7'-0"
4X4X8 SEWAGE EJECTOR PIT T.O.S= 7'-0"
4" DIA. DN
22'-0" MIN. APPROX. 136'-0"

95'-7" P.O.E.

HV.F.C. FOR INCOMING TELCO/TV SERVICES
1"X14" WALL PENETRATION FOR SLEEVES

135'-3" P.O.E.

105'-0"

190'-0"
189'-4"

SEE DRAWING A-122.00
SEE DRAWING A-123.00

3M HIGHWAY

APC
APEC
ATS
DPE
DPEC
FP SW
DPELEV
DPC
DPLC
DIST SECT.
S/S SECT.
C/T SECT.
SERV. END BOX
SERB
RDP1
RDP2
RDPDR
XFMR
1000 kVA XFMR
UNMETERED RETAIL TROUGH
(10)-4" RGS CONDUITS ENCASED IN 2" CONCRETE ACROSS CEILING
SERVICE END BOX ON TOP OF SWITCHBOARD
RETAIL TROUGH
FRONT OF BOARD
REAR OF BOARD

EUH-A (5KW)
GEF-C-1 (500)
UH-B (20 MBH)
AC-C-1 (5 TON)
AC-C-2 (5 TON)
UH-C (250 MBH)
AC-C-4 (30 TON)
AC-C-3 (2 TON)
AC-C-5 (10 TON)
AC-C-6 (2 TON)
AC-C-7 (10 TON)
AC-C-8 (1 TON)
AC-C-9 (1 TON)
AC-C-10 (1 TON)
GEF-C-2 (500)
GEF-C-3 (1,000)
GEF-C-4 (300)
GEF-C-5 (600)
GEF-C-6 (2,000) APL

ELEC CONDUITS UP (18" x 90")
ELEC CONDUITS UP (18" x 90")
ELEC CONDUITS UP (18" x 90")
(1) CKT. FOR RECEP. (1) CKT. FOR LIGHT (FROM PNL. AP-C)
TYPICAL FOR EACH ELEVATOR PIT
SUMP PIT 2x2x2
T.O.S.= -5'-6"
ELEV SUMP PUMP
AUTO-DIVERTING DEVICE
LIGHT SWITCH
MAIN LINE DISCONNECT
PPELC
OUTLINE OF ELEVATOR PIT ABOVE
OUTLINE OF DEPRESSED SLAB ABOVE
ELECL CLOSET
STAIR A
STAIR B
STAIR C
STAIR D
STAIR E
STAIR F
ELEC CONDUITS UP (18" x 90")

RETAIL
GROSS AREA: 10984 SQ. FT.

PROVIDED 102 (3 BED) UNITS
1 WASHING MACHINE PER 20 UNITS
1 DRYER PER 40 UNITS
TOTAL 6 WASHING MACHINES
TOTAL 3 DRYERS.

PROVIDE CONC. FILL RETARED TO FLOOR DRAIN. DRAINS LOCATED PER PLUMBING DWGS. SEE M/P DRAWINGS EQUIPMENT LAYOUT, TYP. PROVIDE CONTINUOUS 3 HOUR RATED FIRE SEPARATION (WALL)/DOORS/LAM (FLOOR)

REINFORCED COLD FLUID APPLIED MEMBRANE
12" REINFORCED CONCRETE
REINFORCED COLD FLUID APPLIED MEMBRANE
2'-6" x 2'-6" OPENING
SHIP LADDER UP

YOGA STUDIO
2" SEMI-RIGID INSULATION
OUTLINE OF DEPRESSED SLAB ABOVE
DOOR ACCESS FOR EASEMENT

(FOR PROPOSED MTA ENTRY DRAWINGS SEE A-350 SERIES)
EL. 92.33' ±
MTA PLATFORM LEVEL T.O.S. EL. -6'-9"
14" FOUNDATION WALL ABOVE

2" RIGID INSULATION (TYP.)
15" COMBINED SEWER.
4X4X8 SEWAGE EJECTOR PIT T.O.S. = 7'-0
4X4X8 SUMP PIT T.O.S.= 7'-0"
4X2X8 SLT PIT T.O.S= 7'-0"
14" FOUNDATION WALL (SEE STRUCTURAL DRAWINGS)
2" RIGID INSULATION (TYP.)
DOOR ACCESS FOR SEWER BOX
EXISTING SEWER BOX TO REMAIN

8" F.A.I.U.P
15" COMBINED SEWER.
15" HOUSE TRAP
2" RIGID INSULATION (TYP.)
6" SPRINKLER SERVICE
DRY PIPE SYSTEM AIR MAINTENANCE COMPRESSOR
208V, 1Φ
6" COMBINED STANDPIPE/ SPRINKLER SERVICE
4" COMBINED WATER SERVICE
TRIPLEX TANK FILL PUMP
15'-7" P.O.E.
16'-6" P.O.E.
4'-2" P.O.E.
69'-6 1/2" P.O.E.

TOP OF PARAPET EL. 105.24'
6 STORY CONCRETE & GLASS BUILDING
TOP OF PARAPET EL. 172.10'
11 STORY CONCRETE & GLASS BUILDING
TOP OF PARAPET EL. 241.37'
CONCRETE WALK EL. 237.37'
TOP OF PARAPET EL. 241.37'
TOP OF PARAPET EL. 241.43'
TOP OF PARAPET EL. 241.40'
TOP OF PARAPET EL. 213.35'
CONCRETE WALK EL. 237.30'
(STONE ROOF)
BULKHEAD
CANOPY
(114.98' LOT)

MATCH LINE
SEE DRAWING A-121.00
SEE DRAWING A-120.00

(0'-0", 0'-0")

29'-2½"
28'-7½"
162'-4"
104'-8"
190'-0"
6'-1½"
7'-0"
10'-3"
3'-7½"
1½"
27'-0"
27'-3½"

SEE DRAWING A-121.00
SEE DRAWING A-120.00
3M HIGHWAY

KEY PLAN

NOTES:

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
CELLAR FLOOR POWER PLAN

SEAL & SIGNATURE:

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
DWG NO. E-100.00

00 OF 58

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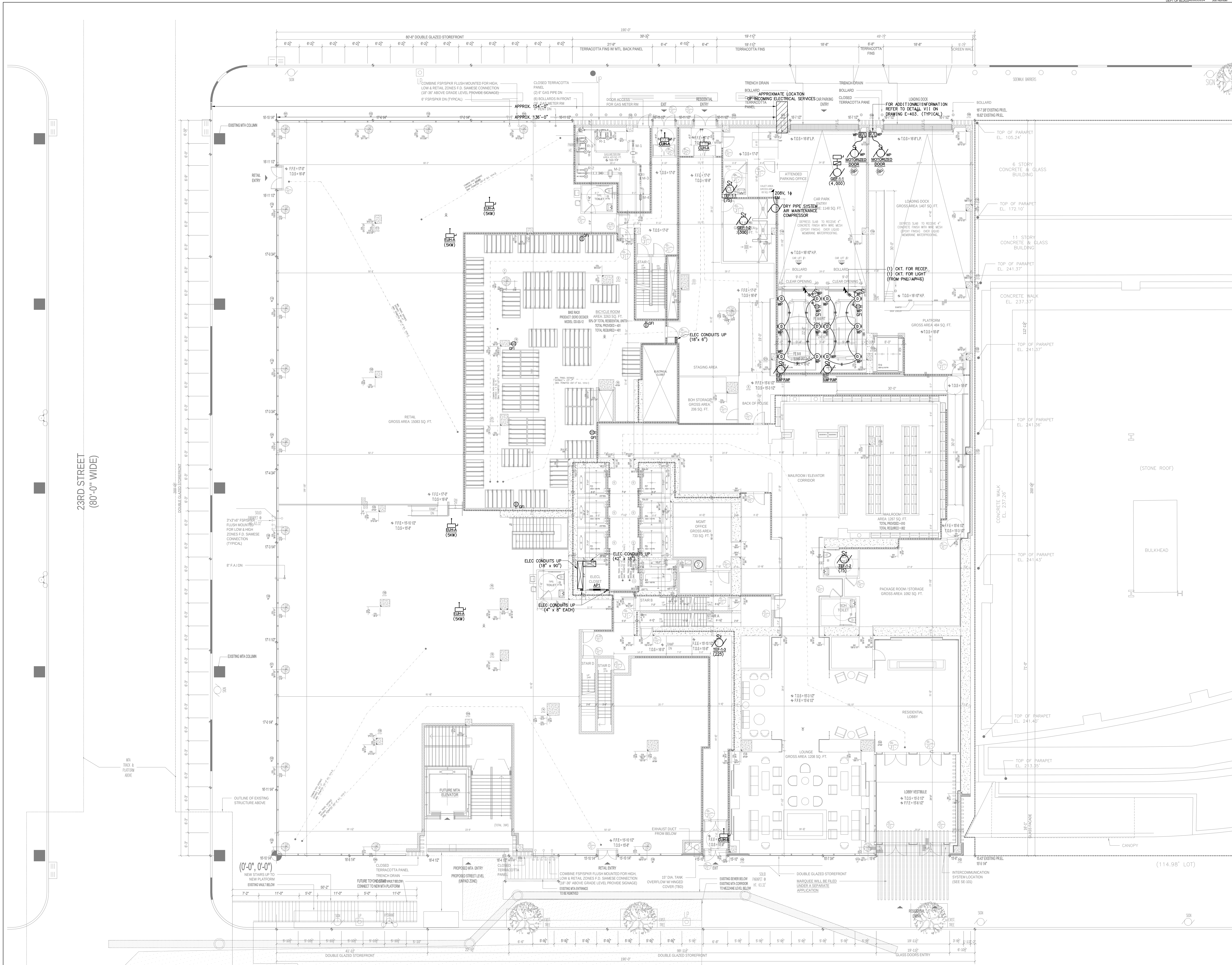

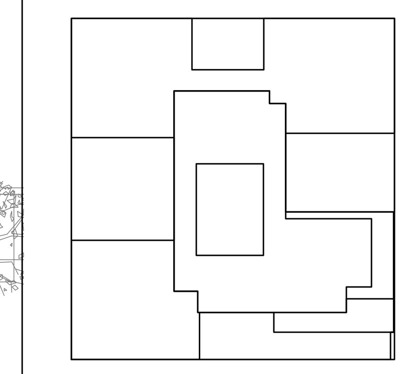

KEY PLAN

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DOB STAMPS & SIGNATURES:

DWG TITLE:

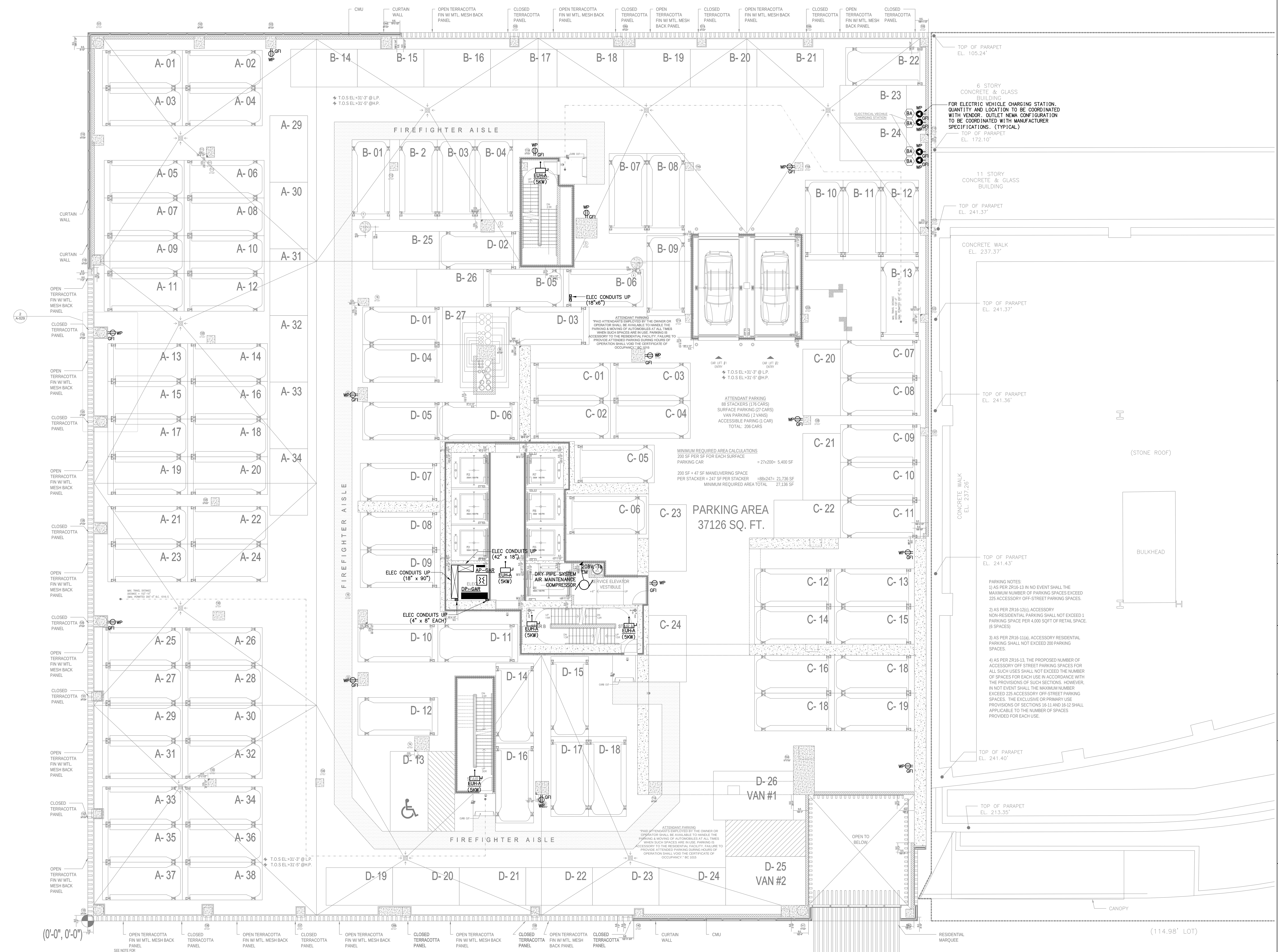
ELECTRICAL
GROUND FLOOR POWER PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
E-101.00
DWG NO.

00 OF 58



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	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
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DWG TITLE:
ELECTRICAL
2ND FLOOR POWER PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
E-102.00
DWG NO.
00 OF 58

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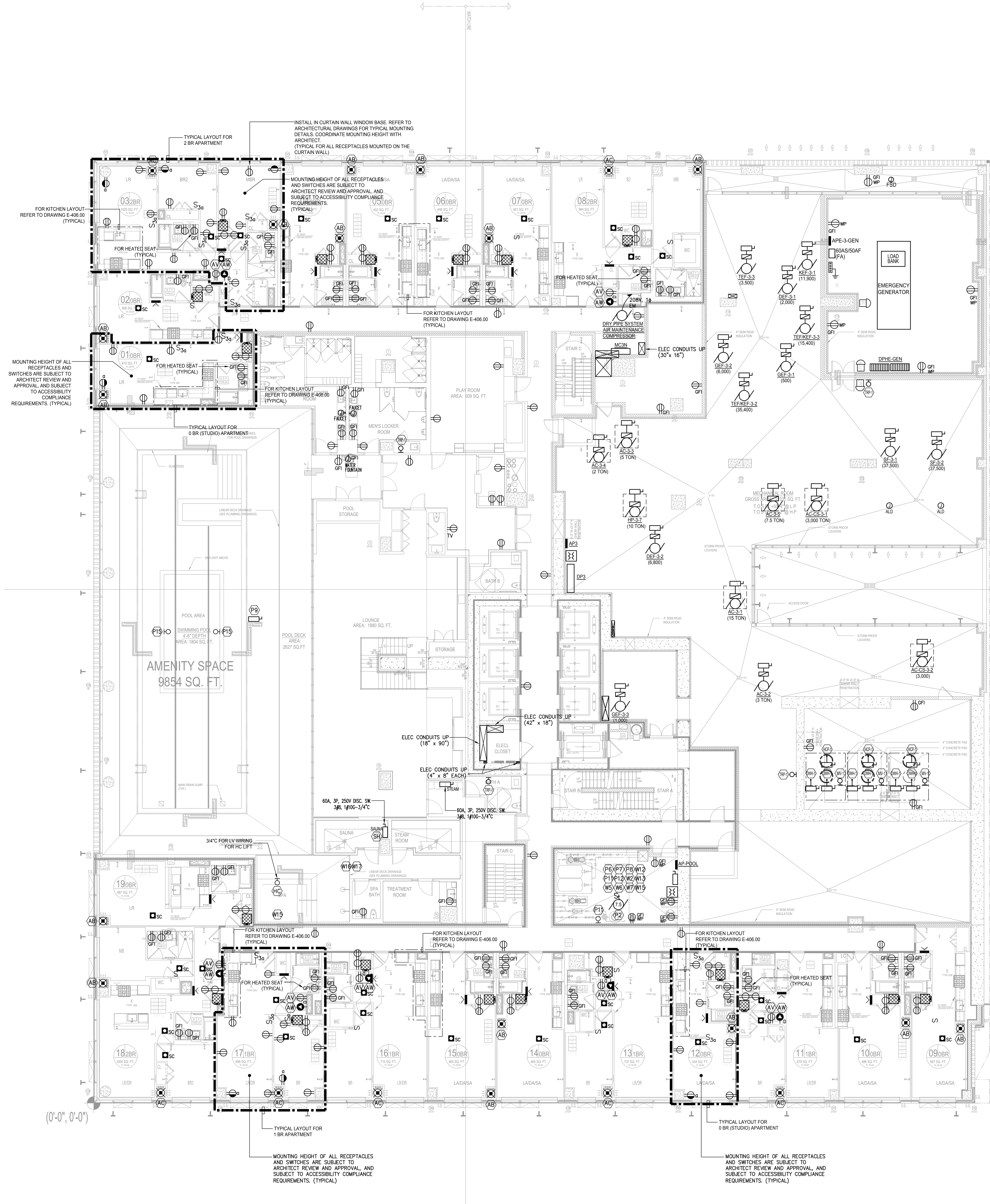
DEPT OF BLDGS 420655954 Job Number
ES205403385 Scan Code



EQUIPMENT LIST FOR POOL EQUIPMENT

IDENTIFICATION SYMBOL	EQUIPMENT DESCRIPTION	KW	KVA	HP	EQUIPMENT AMPS	OUTLET AMPS	VOLTS	PHASE	WIRES
HC	HIC LIFT						120	1	3+G
P2	FILTER PUMP & STRAINER			7.5	25		208	3	3+G
P6	CHEMICAL FEED PUMP (ORP)						120	1	2+G
P7	CHEMICAL FEED PUMP (PH)						120	1	2+G
P8	SOLUTION TANKS						120	1	2+G
P9	POOL HEATER							3	2+G
P11	ULTRAVIOLET DISINFECTION	1.2					208	1	3+G
P12	ELECTRIC CONTROL PANEL WITH VFD			7.5			208	3	3+G
P15	EACH-- UNDERWATER LIGHTS	.02					120	1	3+G
SH	SAUNA HEATER				40		208	3	3+G
W2	FILTER PUMP & STRAINER			2			208	3	3+G
W5	CHEMICAL CONTROLLER						120	1	3+G
W6	CHEMICAL FEED PUMP (PH)						120	1	2+G
W7	CHEMICAL FEED PUMP (ORP)						120	1	2+G
W12	ELECTRIC CONTROL PANEL						208	3	3+G
W13	ULTRAVIOLET DISINFECTION	.4					120	1	3+G
W15	EACH-- UNDERWATER LIGHTS	.02					120	1	3+G
W16	STEAM ROOM WARNING SIGN	–					–	1	3+G
W17	60-MINUTE STEAM ROOM TIMER	–					–	1	3+G

WORK NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, SWITCHES, DISCONNECT SWITCHES, STARTERS, RELAYS TRANSFORMERS AND ALL ACCESSORY EQUIPMENT REQUIRED TO OPERATE THE SPA PUMP, SPA WATER HEATER, UNDERWAATER LIGHTS, CHEMICAL EQUIPMENT WITH ELECTRICAL INTERLOCKS PER THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE PLUMBING CONTRACTOR AND THE POOL CONTRACTOR.
2. THE CHEMICAL FEED EQUIPMENT, CHLORINATOR AND ACID FEEDER SHALL BE ELECTRICALLY INTERLOCKED WITH IT'S RESPECTIVE FILTRATION PUMP MOTOR.
3. ALL ELECTRICAL MOTORS, UNDERWATER LIGHTS, ABOVE GRADE LIGHTING AND ALL OTHER ELECTRICAL EQUIPMENT SHALL BE EQUIPPED WITH GROUND FAULT INTERRUPTERS IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL BOARD OF UNDERWRITERS, THE NATIONAL ELECTRIC CODE AND WITH THE UNDERWRITERS LABEL OF CERTIFICATION.
4. ALL WIRING AND GROUNDING OF ALL POOL EQUIPMENT AND DECK EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL ELECTRICAL CODES HAVING JURISDICTION.
5. NO OVERHEAD ELECTRIC WIRING OF ANY TYPE SHALL EXIST WITHIN TWENTY FEET (20 FT) OF THE POOLS MEASURED HORIZONTALLY FROM THE WATER LINE.
6. POOL WATER HEATERS SHALL COMPLY WITH THE STANDARDS CONTAINED IN THE NEW UNIFORM CODE.
7. THE MAXIMUM TEMPERATURE OF THE SPA WATER SHALL BE 104 DEGREES FAHRENHEIT. A THERMOSTATIC CONTROL FOR THE WATER SHALL BE REQUIRED. AN ALARM SYSTEM SET TO RING A BELL SHALL BE INSTALLED.
8. REFER TO POOL & SPA PLANS FOR ADDITIONAL DETAILS.

GENERAL NOTES::

1. REFER TO SPECIFICATIONS A FIELD COORDINATE WITH ARCHITECT EXACT LOCATION OF ALL WIRING DEVICES.
2. COORDINATE FINAL LOCATION OF HVAC EQUIPMENT, MOTORIZED DAMPERS AND FIRE SMOKE DAMPERS WITH MECHANICAL TRADE.
3. DRAWINGS FOR ELECTRICAL WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS OF ALL TRADES.
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5. NO EXCLUSION FROM OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR ELECTRICAL WORK OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR ELECTRICAL WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT.
6. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ELECTRICAL ITEM IN THE DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL POWER AND LIGHTING AND FIRE ALARM WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEM AS PART OF THE ELECTRICAL WORK REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.

WIRING NOTES:

1. ALL WIRING SHALL BE MINIMUM OF 2#12 CU IN 1/2" C UNLESS OTHERWISE NOTED. HOMERUNS OVER 75' IN LENGTH SHALL BE SUBJECT TO WIRE SIZE INCREASE AS PER SPECIFICATIONS.
2. ARMORED CABLE TYPE "AC" OR METAL CLAD CABLE TYPE "MC" CAN BE USED FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY IN VOIDS OF CEILING AND PARTITIONS IN DWELLING UNITS PROVIDED THAT THIS TYPE OF WIRING IS ACCEPTABLE TO THE BUILDING OWNER OR HIS REPRESENTATIVE, AND IN COMPLIANCE WITH GOVERNING ELECTRICAL CODE. VERIFY ALL OF THE ABOVE PRIOR TO SUBMITTAL OF BID PROPOSAL.
3. RECEPTACLE LAYOUTS SHALL BE AS PER CODE REQUIREMENTS AND SHALL BE APPROVED BY ARCHITECT.
4. DEVICES SHALL NOT BE MOUNTED BACK TO BACK IN ADJACENT ROOMS. REFER TO ARCHITECTURAL POWER/DATA PLANS FOR EXACT LOCATION OF RECEPTACLES.
5. CONNECT NO MORE THAN 6 RECEPTACLES PER CIRCUIT.
6. ALL 120 VOLT SINGLE PHASE 15 AND 20 AMPERE RECEPTACLES (OUTLETS) IN APARTMENTS (DWELLING UNITS) SHALL BE TAMPER-RESISTANT TYPE AND FED FROM THE CIRCUIT PROTECTED BY LISTED ARC-FAULT INTERRUPTER, COMBINATION TYPE CIRCUIT BREAKERS.
7. ALL RECEPTACLES IN BATHROOMS AND KITCHENS SHALL BE GFCI TYPE.
8. ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER- RESISTANT (CORRIDORS, LOBBIES, ETC); EXCEPT MECHANICAL SPACES AND STORAGE ROOMS. CIRCUIT TO 20A-1P CIRCUIT BREAKERS IN HOUSE PANELS AS SHOWN ON RISER DIAGRAM.
9. APARTMENT RECEPTACLE MARKED 'EM' TO BE FED FROM THE EMERGENCY POWER PANEL AS SHOWN ON STAIR RISER VIA CIRCUIT BREAKER AS DESCRIBED IN NOTE 10.
10. IN EACH RESIDENTIAL UNIT PROVIDE 120V-20A ENCLOSED CIRCUIT BREAKER (OR LOAD CENTER SIMILAR TO SQUARE D CAT # QO24L50TTS) SERVING THE EMERGENCY ('EM') RECEPTACLE. THE CIRCUIT BREAKER IS FED FROM EMERGENCY PANEL AS DESCRIBED IN NOTE 9. LOCATE THE CIRCUIT BREAKER IN ACCESSIBLE LOCATION NEXT TO APARTMENT PANELLETTE. SEE 'APLE' PANEL SCHEDULES AND STAIR RISER FOR CIRCUITING. COORDINATE COLOR OF 'EM' RECEPTACLE FACEPLATE WITH ARCHITECT.
11. ALL RECEPTACLE TYPES INDICATED ON PLAN SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR WITH EQUIPMENT MANUFACTURER TO ENSURE PROPER WIRING AND COMPATIBILITY WITH PLUGS OR JUNCTION BOXES FURNISHED AS A PART OF THE EQUIPMENT.
12. CONTRACTOR TO FIELD COORDINATE ACTUAL MECHANICAL, PLUMBING, TELECOMMUNICATION, AUDIO VISUAL REQUIREMENTS WITH THEIR RESPECTIVE TRADES FOR LOCATION AND QUANTITY OF ALL REQUIRED CONDUITS AND BRANCH CIRCUITS. REFER TO TEL/COM AND SECURITY DRAWINGS FOR ALL INFORMATION REGARDING TEL/COM AND SECURITY EQUIPMENT, POWER REQUIREMENTS AND CONDUIT RUNS.
13. FOR EXACT QUANTITY AND LOCATION OF FIRE SMOKE DAMPERS REFER TO MECHANICAL DRAWINGS. PROVIDE 120V, 20 AMPS CIRCUIT FROM THE NEAREST TYPE APPLIANCE PANEL AS REQUIRED. FOR EACH FSD PROVIDE AND INSTALL DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER.
14. IN TEL/COM CLOSETS PROVIDE ISOLATED COPPER GROUND BAR, 2"W x 1/4"D x 10"L, WITH PRE-DRILLED HOLES FOR LUGS. MOUNT BAR ON ISOLATORS, CONNECT BAR WITH #4 CU WIRE WITH GREEN INSULATION IN 3/4"C. TO BUILDING GROUNDING SYSTEM. PROVIDE PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT ALONG WALLS OF ROOM AS REQUIRED BY TEL/COM DRAWINGS.
15. IN DWELLING UNITS SMOKE ALARMS OR COMBINATION SMOKE ALARM/CO DETECTORS SHALL BE INSTALLED AS INDICATED ON CONTRACT DRAWINGS AND SHALL BE LOCATED:
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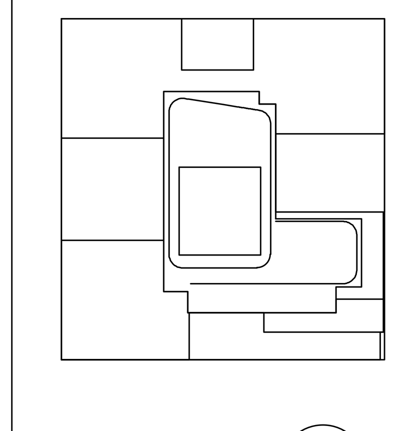

KEY PLAN

NOTES:

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Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
3RD FLOOR POWER PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
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DEPT OF BUILDINGS 420005954 Job Number
E393353520 Scan Code

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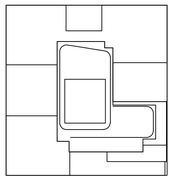

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
4TH FLOOR POWER PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
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SCALE: 1/8" = 1'-0"
DWG NO. E-104.00

OOF

DEPT OF BUILDINGS 420005954 Job Number
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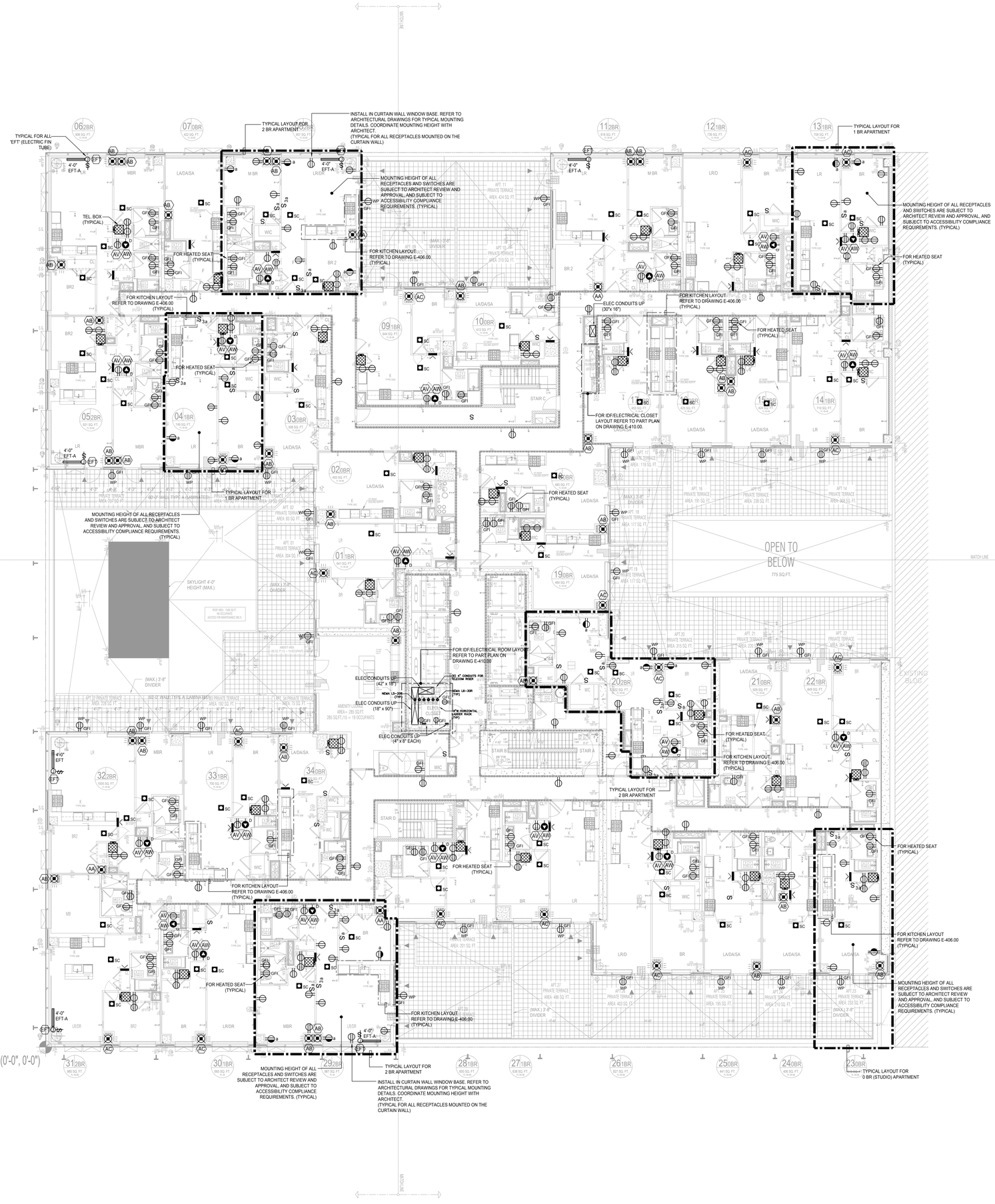

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4. DEVICES SHALL NOT BE MOUNTED BACK TO BACK IN ADJACENT ROOMS. REFER TO ARCHITECTURAL POWER/DATA PLANS FOR EXACT LOCATION OF RECEPTACLES.
5. CONNECT NO MORE THAN 6 RECEPTACLES PER CIRCUIT.
6. ALL 120 VOLT SINGLE PHASE 15 AND 20 AMPERE RECEPTACLES (OUTLETS) IN APARTMENTS (DWELLING UNITS) SHALL BE TAMPER–RESISTANT TYPE AND FED FROM THE CIRCUIT PROTECTED BY LISTED ARC–FAULT INTERRUPTER, COMBINATION TYPE CIRCUIT BREAKERS.
7. ALL RECEPTACLES IN BATHROOMS AND KITCHENS SHALL BE GFCI TYPE.
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10. IN EACH RESIDENTIAL UNIT PROVIDE 120V–20A ENCLOSED CIRCUIT BREAKER (OR LOAD CENTER SIMILAR TO SQUARE D CAT # QO24L50TTS) SERVING THE EMERGENCY ('EM') RECEPTACLE. THE CIRCUIT BREAKER IS FED FROM EMERGENCY PANEL AS DESCRIBED IN NOTE 9. LOCATE THE CIRCUIT BREAKER IN ACCESSIBLE LOCATION NEXT TO APARTMENT PANELLETTE. SEE "APLE" PANEL SCHEDULES AND STAIR RISER FOR CIRCUITING. COORDINATE COLOR OF 'EM' RECEPTACLE FACEPLATE WITH ARCHITECT.
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12. CONTRACTOR TO FIELD COORDINATE ACTUAL MECHANICAL, PLUMBING, TELECOMMUNICATION, AUDIO VISUAL REQUIREMENTS WITH THEIR RESPECTIVE TRADES FOR LOCATION AND QUANTITY OF ALL REQUIRED CONDUITS AND BRANCH CIRCUITS. REFER TO TEL/COM AND SECURITY DRAWINGS FOR ALL INFORMATION REGARDING TEL/COM AND SECURITY EQUIPMENT, POWER REQUIREMENTS AND CONDUIT RUNS.
13. FOR EXACT QUANTITY AND LOCATION OF FIRE SMOKE DAMPERS REFER TO MECHANICAL DRAWINGS. PROVIDE 120V, 20 AMPS CIRCUIT FROM THE NEAREST TYPE APPLIANCE PANEL AS REQUIRED. FOR EACH FSD PROVIDE AND INSTALL DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER.
14. IN TEL/COM CLOSETS PROVIDE ISOLATED COPPER GROUND BAR, 2"W x 1/4"D x 10"L, WITH PRE–DRILLED HOLES FOR LUGS. MOUNT BAR ON ISOLATORS, CONNECT BAR WITH #4 CU WIRE WITH GREEN INSULATION IN 3/4"C. TO BUILDING GROUNDING SYSTEM. PROVIDE PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT ALONG WALLS OF ROOM AS REQUIRED BY TEL/COM DRAWINGS.
15. IN DWELLING UNITS SMOKE ALARMS OR COMBINATION SMOKE ALARM/CO DETECTORS SHALL BE INSTALLED AS INDICATED ON CONTRACT DRAWINGS AND SHALL BE LOCATED:
    A) AT LEAST 10 FEET AWAY FROM ANY COOKING APPLIANCE.
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16. FOR ADDITIONAL KITCHEN RECEPTACLES, APPLIANCES AND OTHER DETAILS REFER TO TYPICAL KITCHEN PART PLANS.
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18. REFER TO ARCHITECTURAL POWER AND DATA PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, AND OTHER DETAILS.

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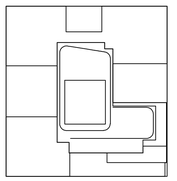

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
5TH FLOOR POWER PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1d[illegible]318
SCALE: 1/8" = 1'-0"
DWG NO: E-105.00

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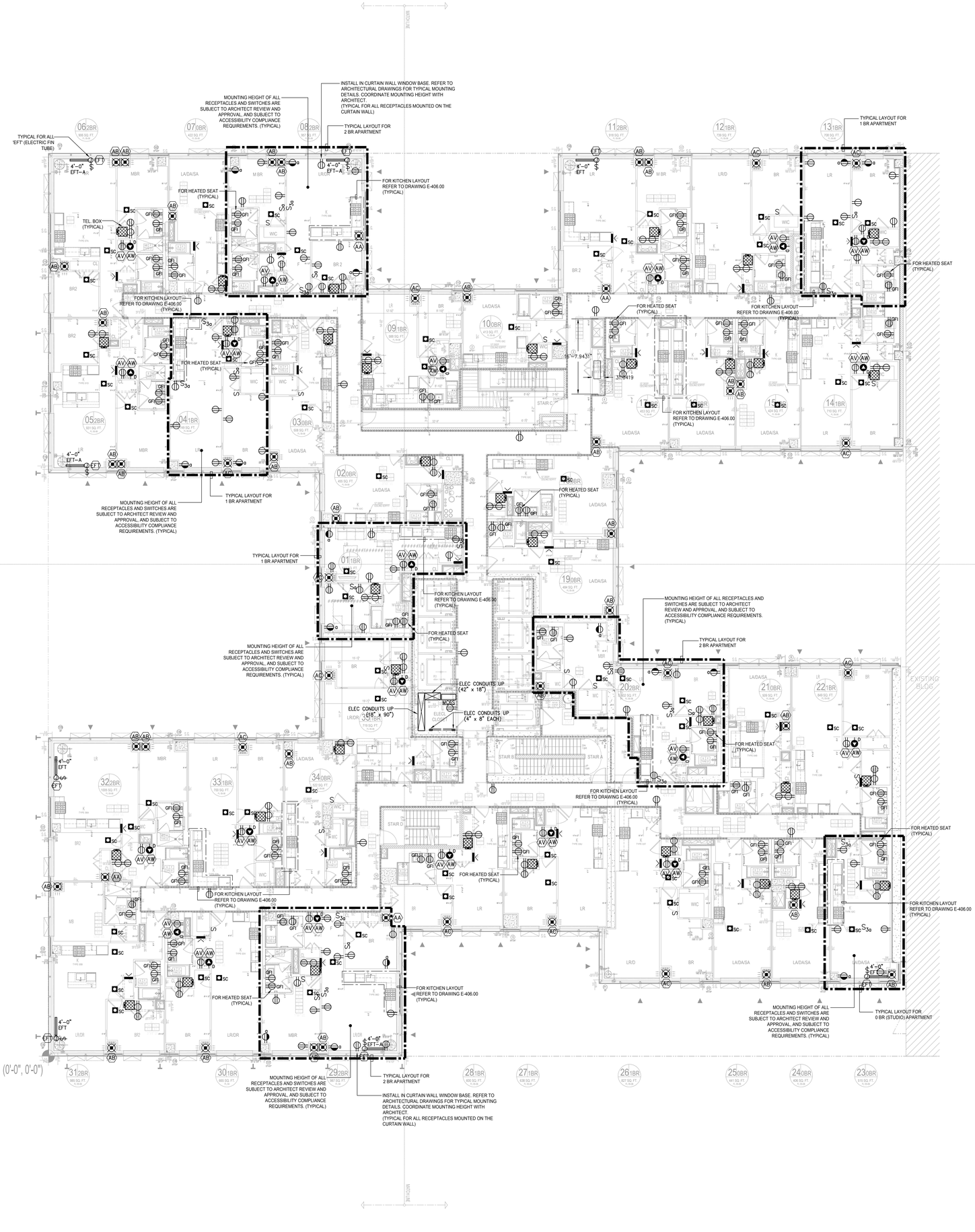

GENERAL NOTES:.

1. REFER TO SPECIFICATIONS A FIELD COORDINATE WITH ARCHITECT EXACT LOCATION OF ALL WIRING DEVICES.
2. COORDINATE FINAL LOCATION OF HVAC EQUIPMENT, MOTORIZED DAMPERS AND FIRE SMOKE DAMPERS WITH MECHANICAL TRADE.
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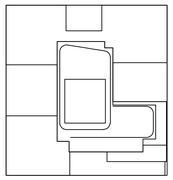

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
6TH FLOOR POWER PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15DB318
SCALE: 1/8" = 1'-0"
DWG NO. E-106.00
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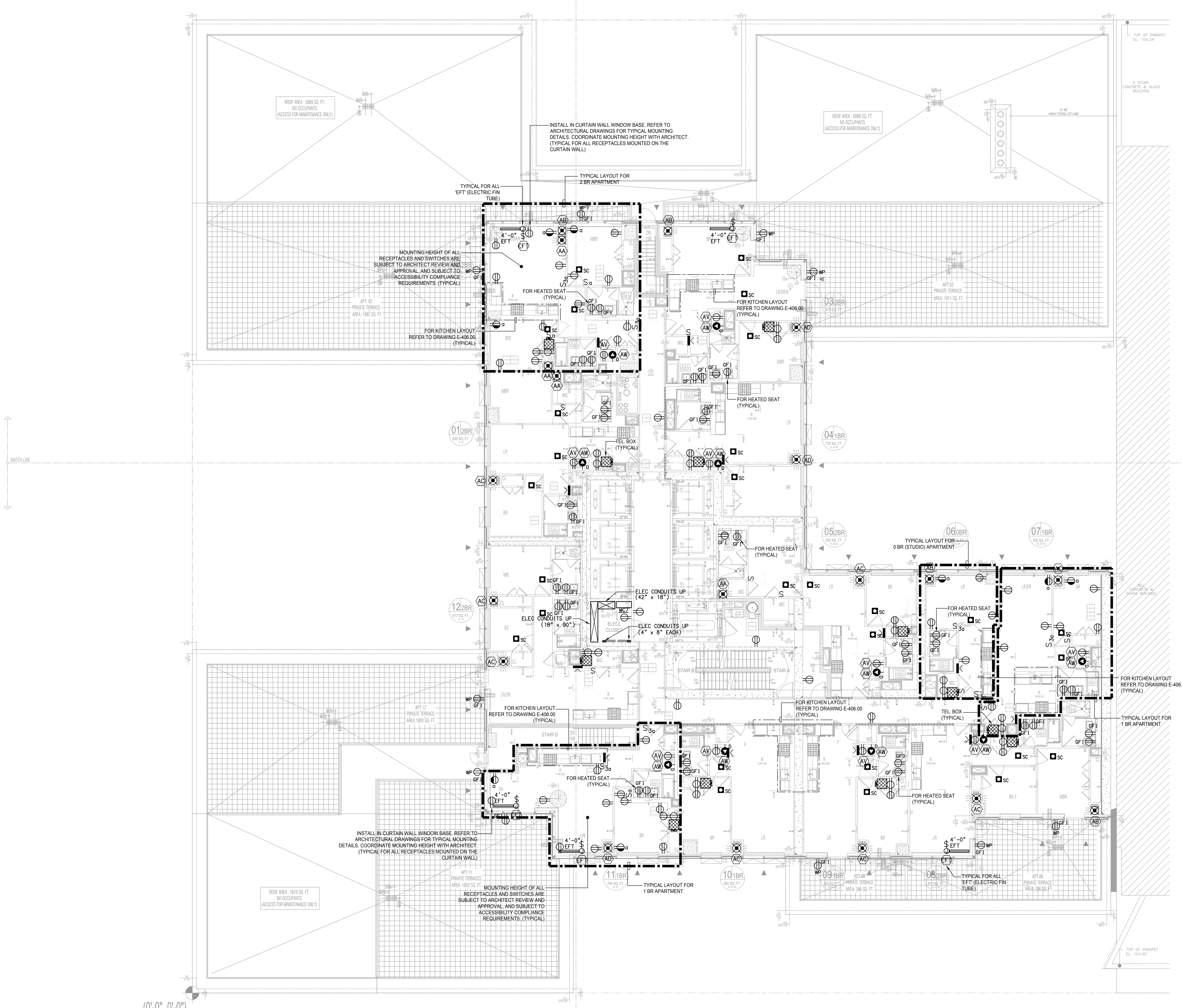

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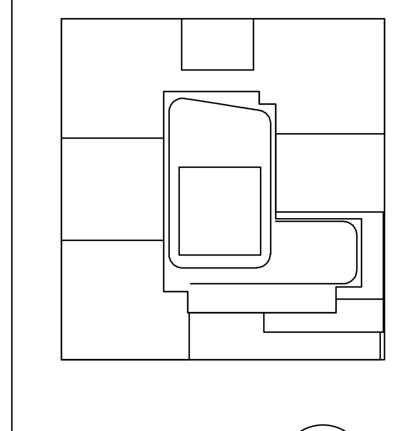

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
7TH FLOOR POWER PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
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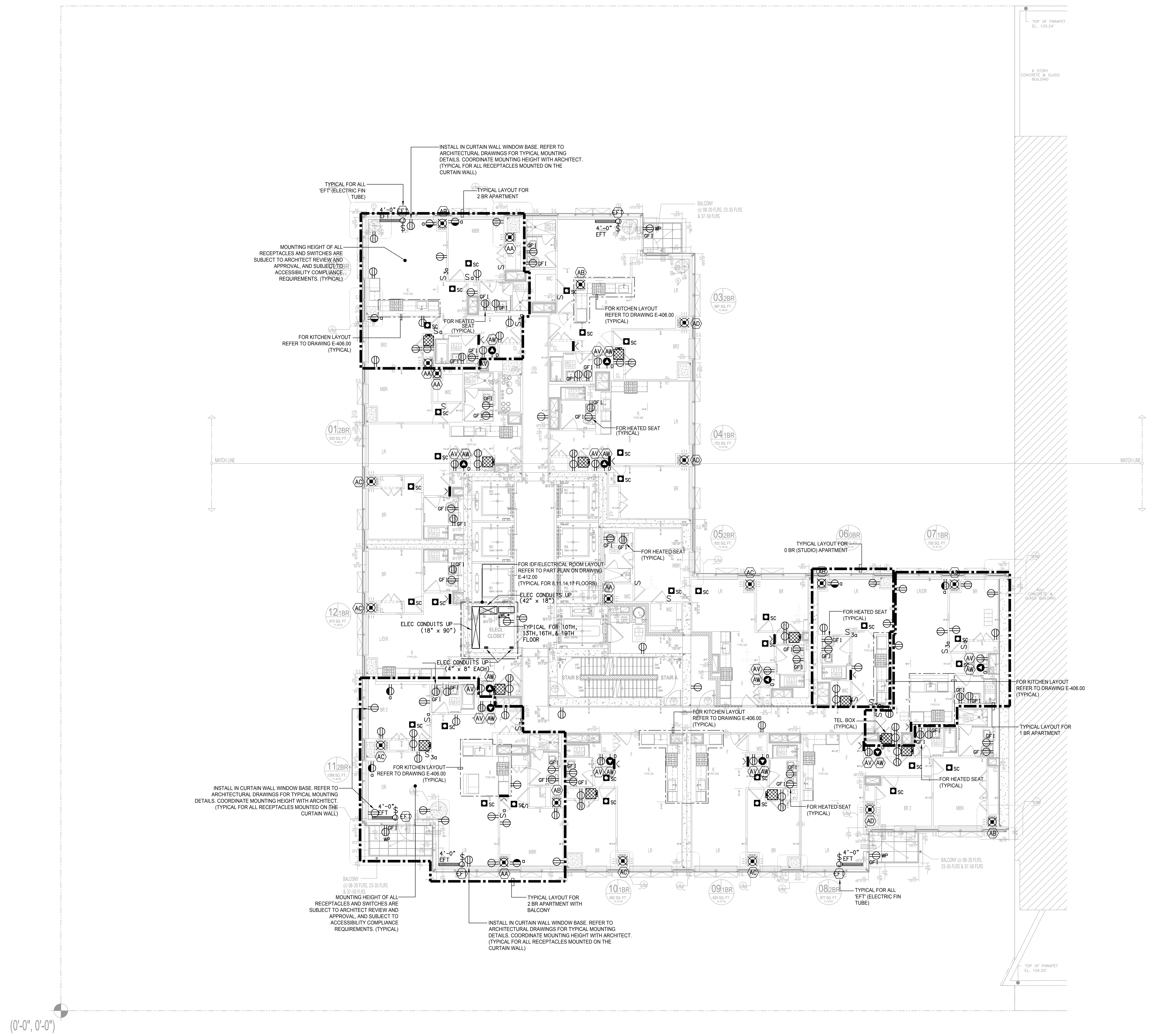

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6. ALL 120 VOLT SINGLE PHASE 15 AND 20 AMPERE RECEPTACLES (OUTLETS) IN APARTMENTS (DWELLING UNITS) SHALL BE TAMPER-RESISTANT TYPE AND FED FROM THE CIRCUIT PROTECTED BY LISTED ARC-FAULT INTERRUPTER, COMBINATION TYPE CIRCUIT BREAKERS.
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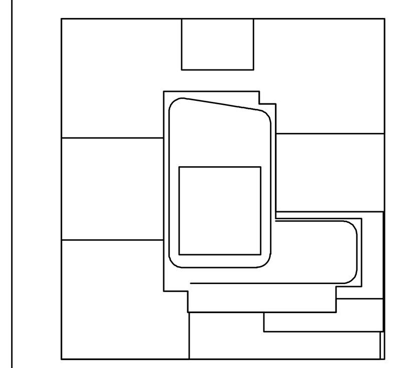

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112-15 NORTHERN BLVD, CF-2
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Architect:
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Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600
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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
8TH - 19TH FLOORS POWER PLAN

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SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
E-108.00
DWG NO.
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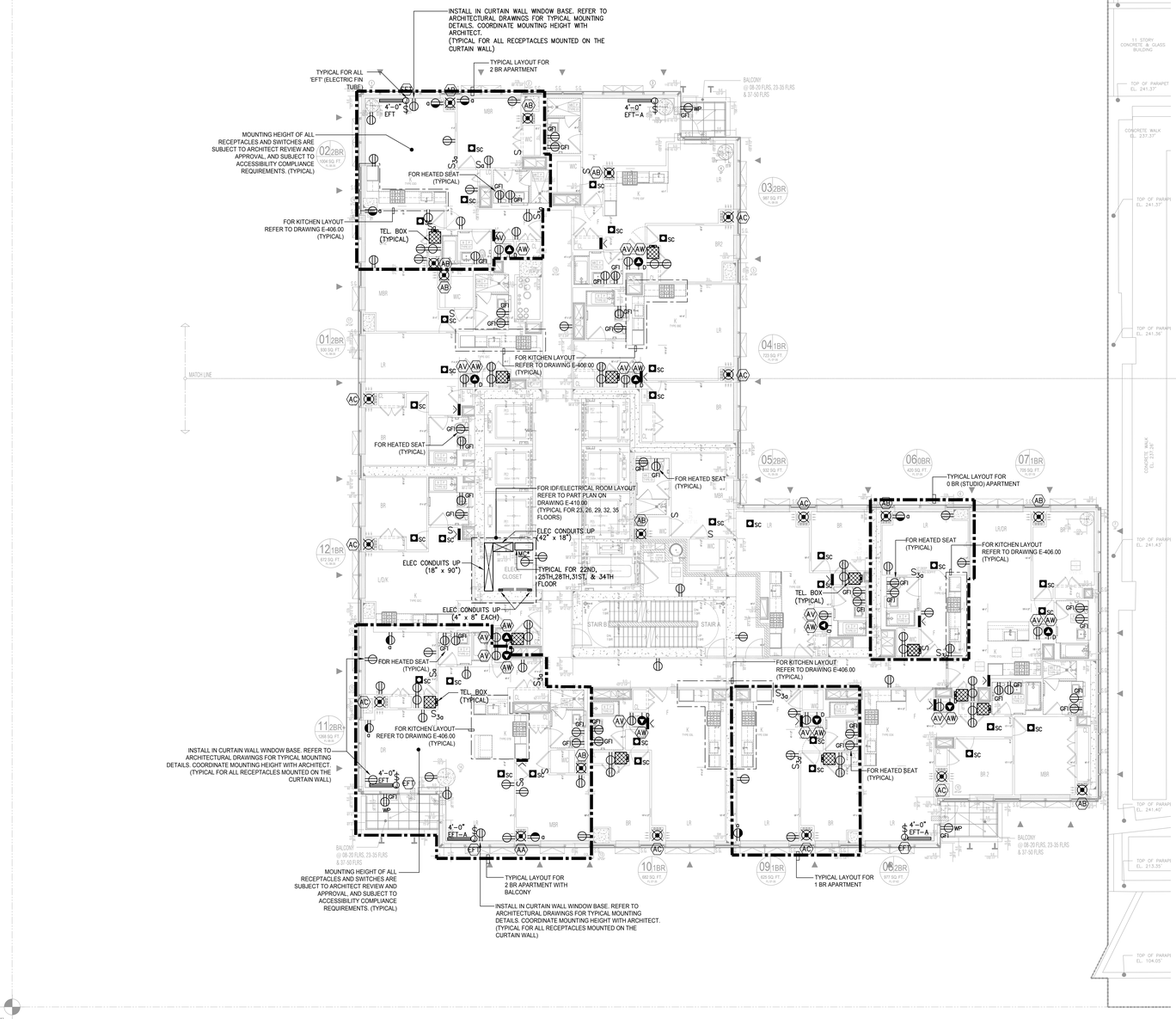

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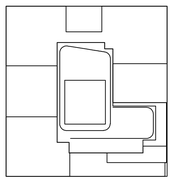

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Client:

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
20TH - 35TH FLOORS POWER PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15059318
SCALE: 1/8" = 1'-0"
DWG NO. E-120.00

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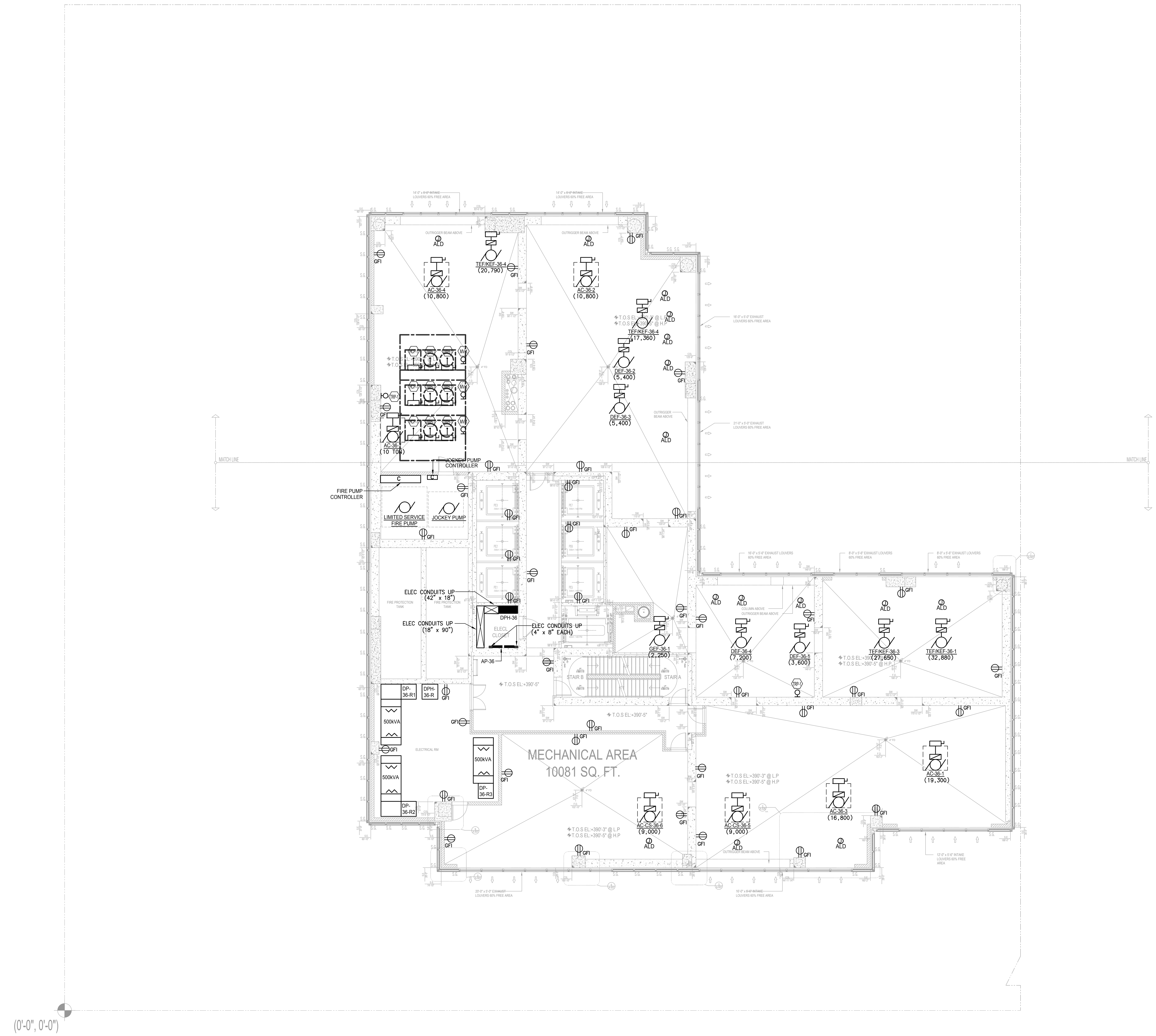

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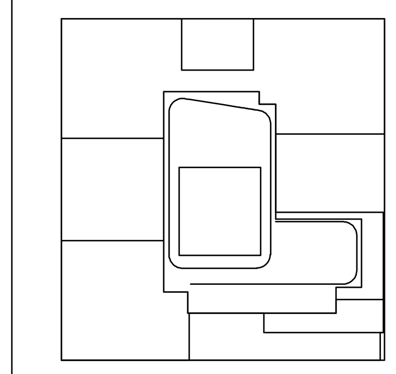

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Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
36TH FLOOR POWER (MECHANICAL PLAN)

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
E-136.00
DWG NO.
000F

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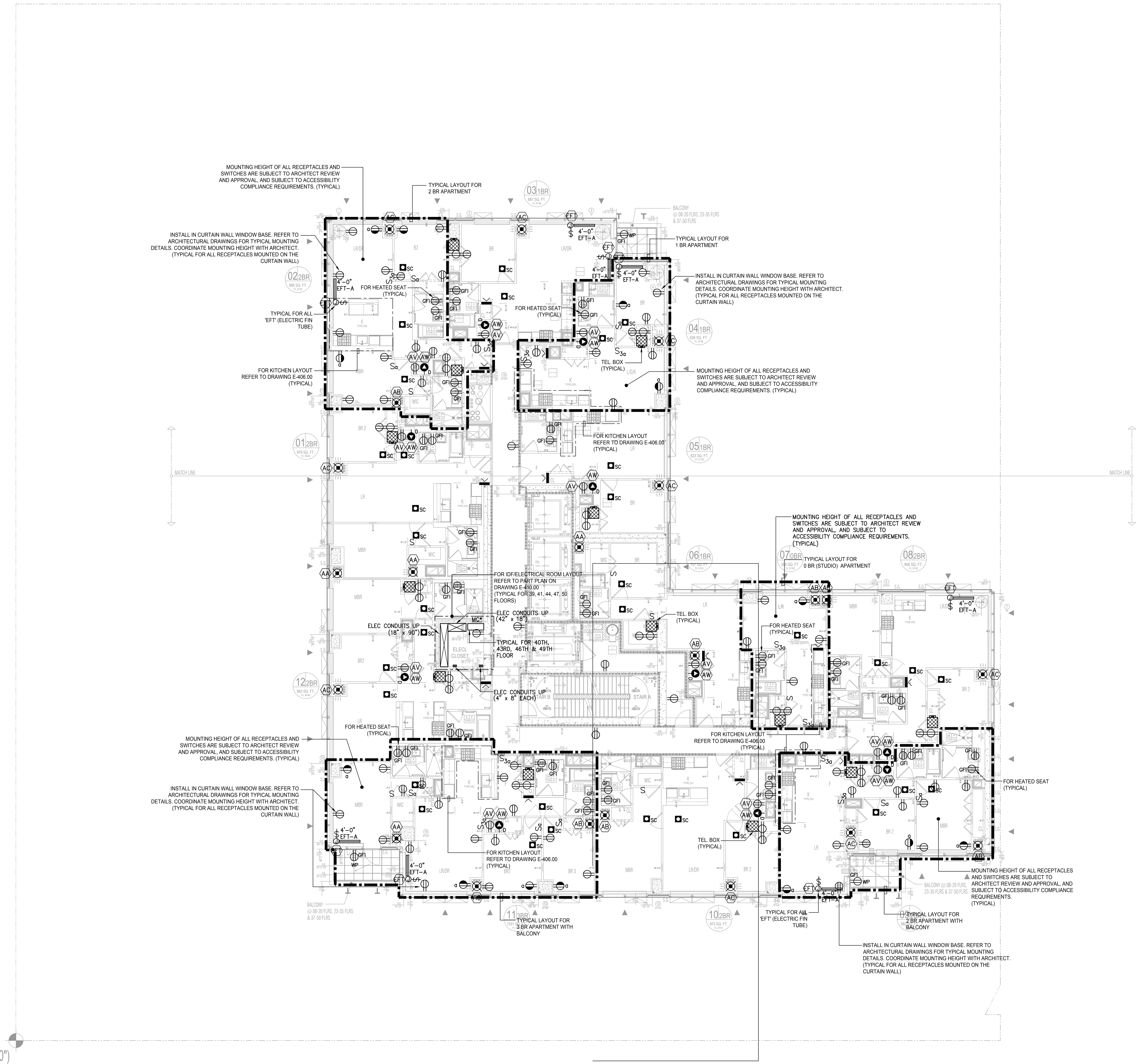
FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E138 (38TH-50TH FL).dwg SAVED ON 10/12/2017 11:21 AM PLOTTED ON 10/12/2017 1:25 PM PLOTTED BY VALITE, VAN



GENERAL NOTES::

1. REFER TO SPECIFICATIONS A FIELD COORDINATE WITH ARCHITECT EXACT LOCATION OF ALL WIRING DEVICES.
2. COORDINATE FINAL LOCATION OF HVAC EQUIPMENT, MOTORIZED DAMPERS AND FIRE SMOKE DAMPERS WITH MECHANICAL TRADE.
3. DRAWINGS FOR ELECTRICAL WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS OF ALL TRADES.
4. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND ARE TO BE TAKEN TOGETHER FOR A COMPLETE INTERPRETATION OF THE WORK. WHERE THERE ARE CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WITHIN THE SPECIFICATIONS OR DRAWINGS THEMSELVES, THE ITEMS OF HIGHER STANDARD SHALL GOVERN.
5. NO EXCLUSION FROM OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR ELECTRICAL WORK OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR ELECTRICAL WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT.
6. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ELECTRICAL ITEM IN THE DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL POWER AND LIGHTING AND FIRE ALARM WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEM AS PART OF THE ELECTRICAL WORK REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.

WIRING NOTES:

1. ALL WIRING SHALL BE MINIMUM OF 2#12 CU IN 1/2" C UNLESS OTHERWISE NOTED. HOMERUNS OVER 75' IN LENGTH SHALL BE SUBJECT TO WIRE SIZE INCREASE AS PER SPECIFICATIONS.
2. ARMORED CABLE TYPE "AC" OR METAL CLAD CABLE TYPE "MC" CAN BE USED FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY IN VOIDS OF CEILING AND PARTITIONS IN DWELLING UNITS PROVIDED THAT THIS TYPE OF WIRING IS ACCEPTABLE TO THE BUILDING OWNER OR HIS REPRESENTATIVE, AND IN COMPLIANCE WITH GOVERNING ELECTRICAL CODE. VERIFY ALL OF THE ABOVE PRIOR TO SUBMITTAL OF BID PROPOSAL.
3. RECEPTACLE LAYOUTS SHALL BE AS PER CODE REQUIREMENTS AND SHALL BE APPROVED BY ARCHITECT.
4. DEVICES SHALL NOT BE MOUNTED BACK TO BACK IN ADJACENT ROOMS. REFER TO ARCHITECTURAL POWER/DATA PLANS FOR EXACT LOCATION OF RECEPTACLES.
5. CONNECT NO MORE THAN 6 RECEPTACLES PER CIRCUIT.
6. ALL 120 VOLT SINGLE PHASE 15 AND 20 AMPERE RECEPTACLES (OUTLETS) IN APARTMENTS (DWELLING UNITS) SHALL BE TAMPER–RESISTANT TYPE AND FED FROM THE CIRCUIT PROTECTED BY LISTED ARC–FAULT INTERRUPTER, COMBINATION TYPE CIRCUIT BREAKERS.
7. ALL RECEPTACLES IN BATHROOMS AND KITCHENS SHALL BE GFCI TYPE.
8. ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER– RESISTANT (CORRIDORS, LOBBIES, ETC); EXCEPT MECHANICAL SPACES AND STORAGE ROOMS. CIRCUIT TO 20A–1P CIRCUIT BREAKERS IN HOUSE PANELS AS SHOWN ON RISER DIAGRAM.
9. APARTMENT RECEPTACLE MARKED 'EM' TO BE FED FROM THE EMERGENCY POWER PANEL AS SHOWN ON STAIR RISER VIA CIRCUIT BREAKER AS DESCRIBED IN NOTE 10.
10. IN EACH RESIDENTIAL UNIT PROVIDE 120V–20A ENCLOSED CIRCUIT BREAKER (OR LOAD CENTER SIMILAR TO SQUARE D CAT # QO24L50TTS) SERVING THE EMERGENCY ('EM') RECEPTACLE. THE CIRCUIT BREAKER IS FED FROM EMERGENCY PANEL AS DESCRIBED IN NOTE 9. LOCATE THE CIRCUIT BREAKER IN ACCESSIBLE LOCATION NEXT TO APARTMENT PANELLETTE. SEE 'APLE' PANEL SCHEDULES AND STAIR RISER FOR CIRCUITING. COORDINATE COLOR OF 'EM' RECEPTACLE FACEPLATE WITH ARCHITECT.
11. ALL RECEPTACLE TYPES INDICATED ON PLAN SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR WITH EQUIPMENT MANUFACTURER TO ENSURE PROPER WIRING AND COMPATIBILITY WITH PLUGS OR JUNCTION BOXES FURNISHED AS A PART OF THE EQUIPMENT.
12. CONTRACTOR TO FIELD COORDINATE ACTUAL MECHANICAL, PLUMBING, TELECOMMUNICATION, AUDIO VISUAL REQUIREMENTS WITH THEIR RESPECTIVE TRADES FOR LOCATION AND QUANTITY OF ALL REQUIRED CONDUITS AND BRANCH CIRCUITS. REFER TO TEL/COM AND SECURITY DRAWINGS FOR ALL INFORMATION REGARDING TEL/COM AND SECURITY EQUIPMENT, POWER REQUIREMENTS AND CONDUIT RUNS.
13. FOR EXACT QUANTITY AND LOCATION OF FIRE SMOKE DAMPERS REFER TO MECHANICAL DRAWINGS. PROVIDE 120V, 20 AMPS CIRCUIT FROM THE NEAREST TYPE APPLIANCE PANEL AS REQUIRED. FOR EACH FSD PROVIDE AND INSTALL DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER.
14. IN TEL/COM CLOSETS PROVIDE ISOLATED COPPER GROUND BAR, 2"W x 1/4"D x 10"L, WITH PRE–DRILLED HOLES FOR LUGS. MOUNT BAR ON ISOLATORS, CONNECT BAR WITH #4 CU WIRE WITH GREEN INSULATION IN 3/4"C. TO BUILDING GROUNDING SYSTEM. PROVIDE PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT ALONG WALLS OF ROOM AS REQUIRED BY TEL/COM DRAWINGS.
15. IN DWELLING UNITS SMOKE ALARMS OR COMBINATION SMOKE ALARM/CO DETECTORS SHALL BE INSTALLED AS INDICATED ON CONTRACT DRAWINGS AND SHALL BE LOCATED:
    A) AT LEAST 10 FEET AWAY FROM ANY COOKING APPLIANCE.
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17. FOR HALF SWITCHED RECEPTACLES AND CONTROLS REFER TO LIGHTING PLANS.
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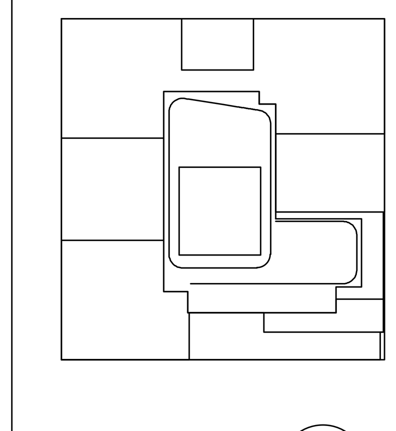

KEY PLAN

NOTES:

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Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
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	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
11 BROADWAY
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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
38TH - 50TH FLOORS POWER PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
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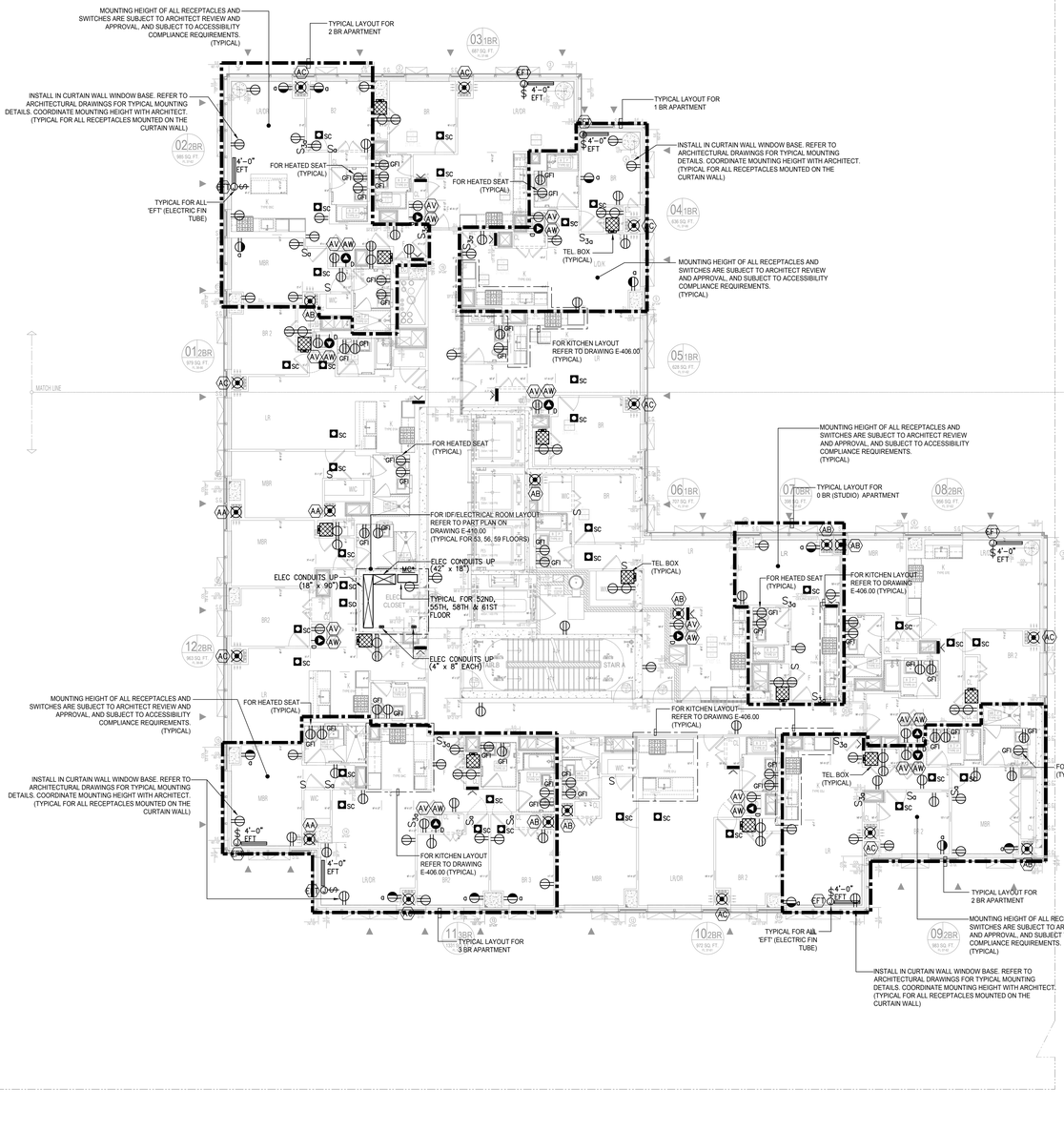

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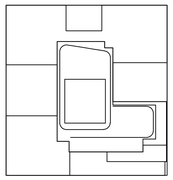
KEY PLAN



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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
51ST - 61ST FLOORS POWER PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15BB318
SCALE: 1/8" = 1'-0"
DWG NO. E-151.00

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DEPT OF BUILDINGS 420005904 Job Number
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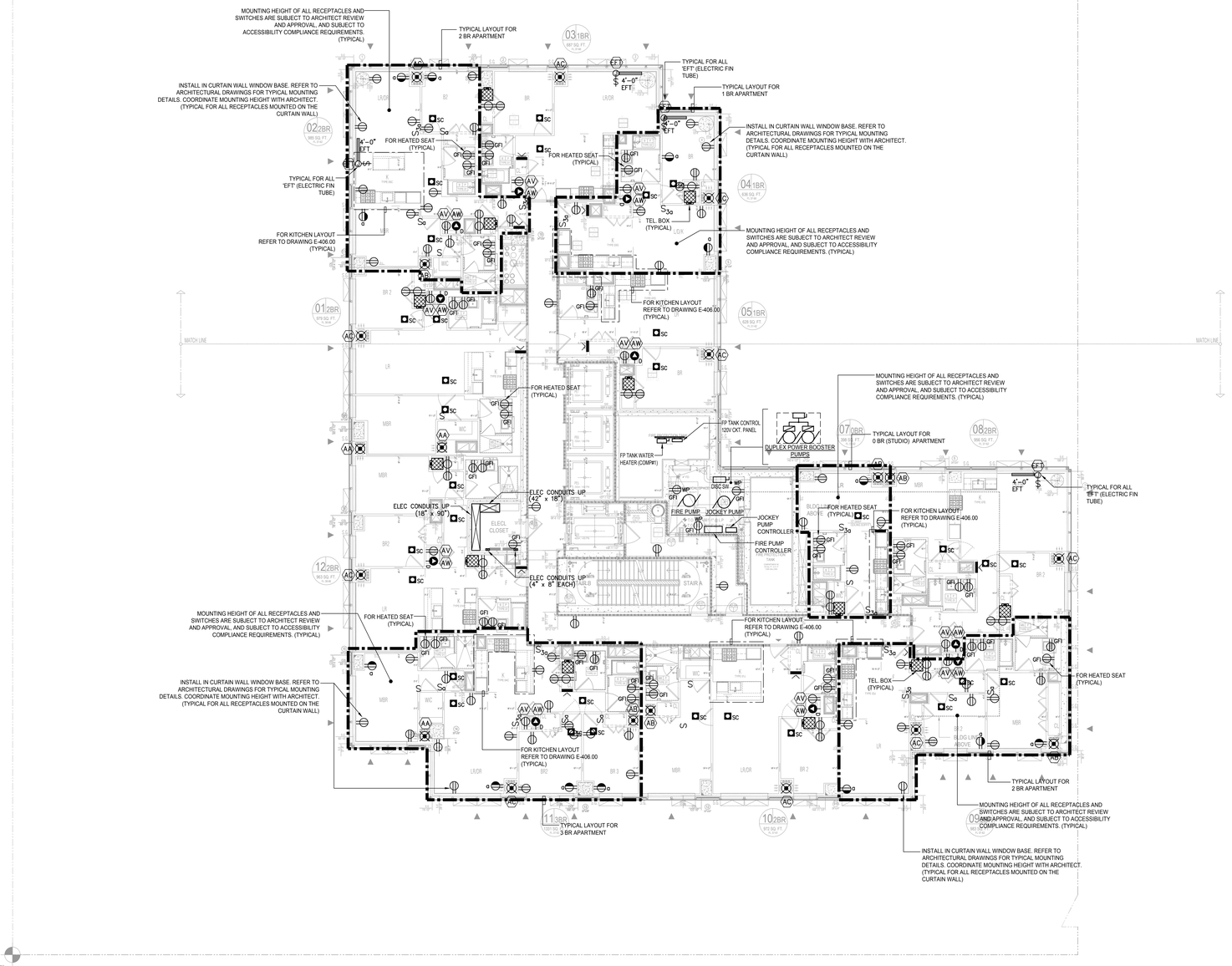

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    D) AT LEAST 3 FEET FROM ANY HEATING, VENTILATION OR AIR CONDITIONING SUPPLY REGISTER.
    E) AT LEAST 3 FEET FROM TIPS OF CEILING FANS
16. FOR ADDITIONAL KITCHEN RECEPTACLES, APPLIANCES AND OTHER DETAILS REFER TO TYPICAL KITCHEN PART PLANS.
17. FOR HALF SWITCHED RECEPTACLES AND CONTROLS REFER TO LIGHTING PLANS.
18. REFER TO ARCHITECTURAL POWER AND DATA PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, AND OTHER DETAILS.

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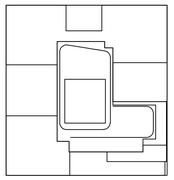

KEY PLAN

NOTES:

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	10/06/2017	ISSUED FOR DOB
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Client:

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
62ND FLOOR POWER PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15BB318
SCALE: 1/8" = 1'-0"
DWG NO. E-162.00
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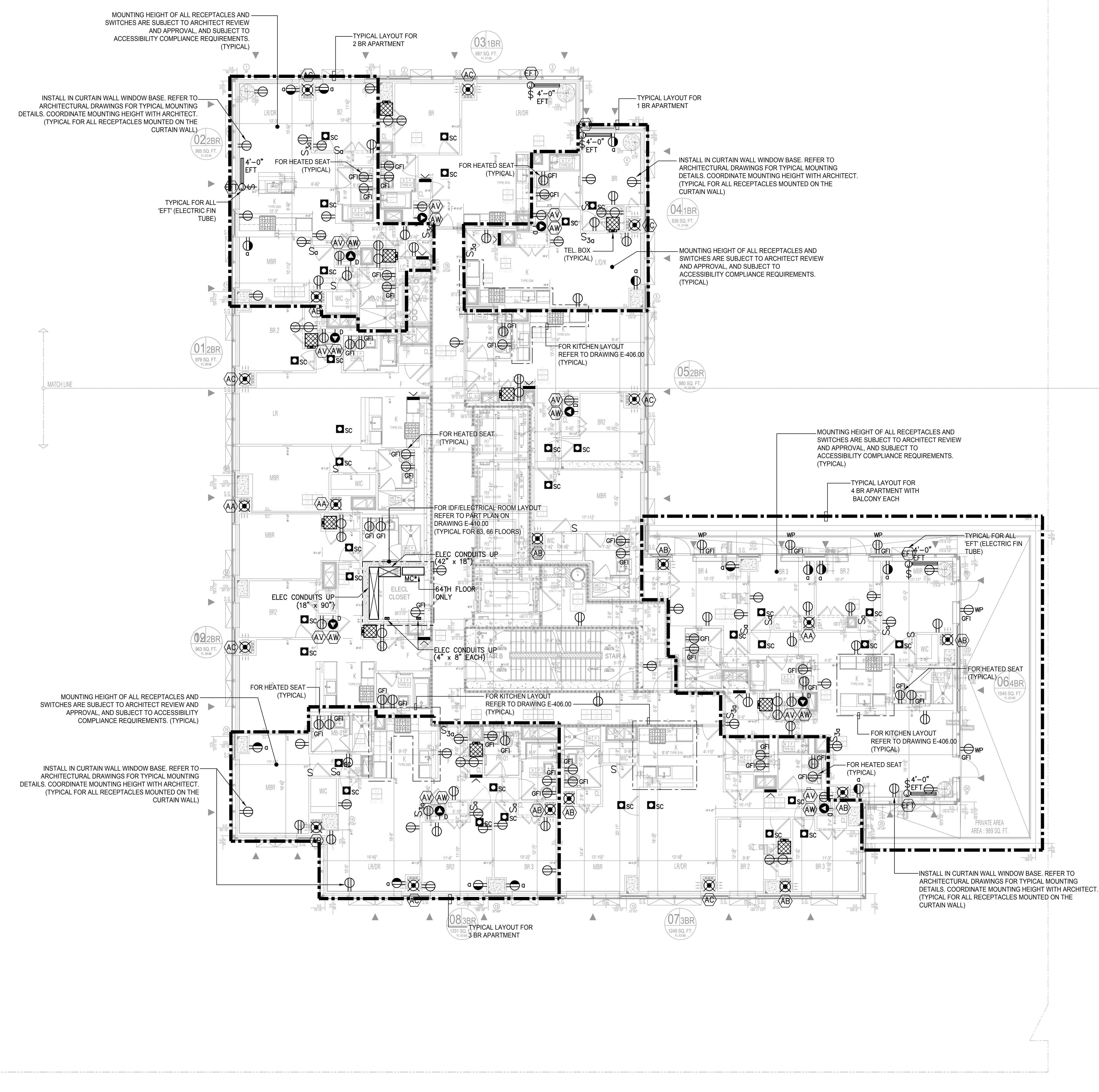

GENERAL NOTES::

1. REFER TO SPECIFICATIONS A FIELD COORDINATE WITH ARCHITECT EXACT LOCATION OF ALL WIRING DEVICES.
2. COORDINATE FINAL LOCATION OF HVAC EQUIPMENT, MOTORIZED DAMPERS AND FIRE SMOKE DAMPERS WITH MECHANICAL TRADE.
3. DRAWINGS FOR ELECTRICAL WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS OF ALL TRADES.
4. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND ARE TO BE TAKEN TOGETHER FOR A COMPLETE INTERPRETATION OF THE WORK. WHERE THERE ARE CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WITHIN THE SPECIFICATIONS OR DRAWINGS THEMSELVES, THE ITEMS OF HIGHER STANDARD SHALL GOVERN.
5. NO EXCLUSION FROM OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR ELECTRICAL WORK OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR ELECTRICAL WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT.
6. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ELECTRICAL ITEM IN THE DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL POWER AND LIGHTING AND FIRE ALARM WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEM AS PART OF THE ELECTRICAL WORK REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.

WIRING NOTES:

1. ALL WIRING SHALL BE MINIMUM OF 2#12 CU IN 1/2" C UNLESS OTHERWISE NOTED. HOMERUNS OVER 75' IN LENGTH SHALL BE SUBJECT TO WIRE SIZE INCREASE AS PER SPECIFICATIONS.
2. ARMORED CABLE TYPE "AC" OR METAL CLAD CABLE TYPE "MC" CAN BE USED FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY IN VOIDS OF CEILING AND PARTITIONS IN DWELLING UNITS PROVIDED THAT THIS TYPE OF WIRING IS ACCEPTABLE TO THE BUILDING OWNER OR HIS REPRESENTATIVE, AND IN COMPLIANCE WITH GOVERNING ELECTRICAL CODE. VERIFY ALL OF THE ABOVE PRIOR TO SUBMITTAL OF BID PROPOSAL.
3. RECEPTACLE LAYOUTS SHALL BE AS PER CODE REQUIREMENTS AND SHALL BE APPROVED BY ARCHITECT.
4. DEVICES SHALL NOT BE MOUNTED BACK TO BACK IN ADJACENT ROOMS. REFER TO ARCHITECTURAL POWER/DATA PLANS FOR EXACT LOCATION OF RECEPTACLES.
5. CONNECT NO MORE THAN 6 RECEPTACLES PER CIRCUIT.
6. ALL 120 VOLT SINGLE PHASE 15 AND 20 AMPERE RECEPTACLES (OUTLETS) IN APARTMENTS (DWELLING UNITS) SHALL BE TAMPER–RESISTANT TYPE AND FED FROM THE CIRCUIT PROTECTED BY LISTED ARC–FAULT INTERRUPTER, COMBINATION TYPE CIRCUIT BREAKERS.
7. ALL RECEPTACLES IN BATHROOMS AND KITCHENS SHALL BE GFCI TYPE.
8. ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER– RESISTANT (CORRIDORS, LOBBIES, ETC); EXCEPT MECHANICAL SPACES AND STORAGE ROOMS. CIRCUIT TO 20A–1P CIRCUIT BREAKERS IN HOUSE PANELS AS SHOWN ON RISER DIAGRAM.
9. APARTMENT RECEPTACLE MARKED 'EM' TO BE FED FROM THE EMERGENCY POWER PANEL AS SHOWN ON STAIR RISER VIA CIRCUIT BREAKER AS DESCRIBED IN NOTE 10.
10. IN EACH RESIDENTIAL UNIT PROVIDE 120V–20A ENCLOSED CIRCUIT BREAKER (OR LOAD CENTER SIMILAR TO SQUARE D CAT # QO24L50TTS) SERVING THE EMERGENCY ('EM') RECEPTACLE. THE CIRCUIT BREAKER IS FED FROM EMERGENCY PANEL AS DESCRIBED IN NOTE 9. LOCATE THE CIRCUIT BREAKER IN ACCESSIBLE LOCATION NEXT TO APARTMENT PANELLETTE. SEE 'APLE' PANEL SCHEDULES AND STAIR RISER FOR CIRCUITING. COORDINATE COLOR OF 'EM' RECEPTACLE FACEPLATE WITH ARCHITECT.
11. ALL RECEPTACLE TYPES INDICATED ON PLAN SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR WITH EQUIPMENT MANUFACTURER TO ENSURE PROPER WIRING AND COMPATIBILITY WITH PLUGS OR JUNCTION BOXES FURNISHED AS A PART OF THE EQUIPMENT.
12. CONTRACTOR TO FIELD COORDINATE ACTUAL MECHANICAL, PLUMBING, TELECOMMUNICATION, AUDIO VISUAL REQUIREMENTS WITH THEIR RESPECTIVE TRADES FOR LOCATION AND QUANTITY OF ALL REQUIRED CONDUITS AND BRANCH CIRCUITS. REFER TO TEL/COM AND SECURITY DRAWINGS FOR ALL INFORMATION REGARDING TEL/COM AND SECURITY EQUIPMENT, POWER REQUIREMENTS AND CONDUIT RUNS.
13. FOR EXACT QUANTITY AND LOCATION OF FIRE SMOKE DAMPERS REFER TO MECHANICAL DRAWINGS. PROVIDE 120V, 20 AMPS CIRCUIT FROM THE NEAREST TYPE APPLIANCE PANEL AS REQUIRED. FOR EACH FSD PROVIDE AND INSTALL DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER.
14. IN TEL/COM CLOSETS PROVIDE ISOLATED COPPER GROUND BAR, 2"W x 1/4"D x 10"L, WITH PRE–DRILLED HOLES FOR LUGS. MOUNT BAR ON ISOLATORS, CONNECT BAR WITH #4 CU WIRE WITH GREEN INSULATION IN 3/4"C. TO BUILDING GROUNDING SYSTEM. PROVIDE PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT ALONG WALLS OF ROOM AS REQUIRED BY TEL/COM DRAWINGS.
15. IN DWELLING UNITS SMOKE ALARMS OR COMBINATION SMOKE ALARM/CO DETECTORS SHALL BE INSTALLED AS INDICATED ON CONTRACT DRAWINGS AND SHALL BE LOCATED:
    - A) AT LEAST 10 FEET AWAY FROM ANY COOKING APPLIANCE.
    - B) IF WITHIN 20 FEET OF ANY COOKING APPLIANCE, CONTRACTOR SHALL PROVIDE PHOTOELECTRIC TYPE DETECTOR.
    - C) AT LEAST 3 FEET FROM DOOR TO BATHROOM
    - D) AT LEAST 3 FEET FROM ANY HEATING, VENTILATION OR AIR CONDITIONING SUPPLY REGISTER.
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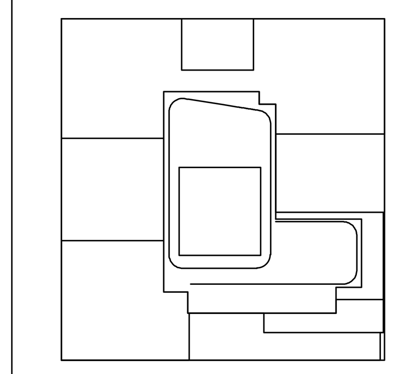

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
63RD - 66TH FLOORS POWER PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE:	09/15/2017
PROJECT #:	150318
SCALE:	1/8"= 1'-0"
DWG NO.	E-163.00

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DEPT OF BLDGS 420655954 Job Number

ES195832985 Scan Code

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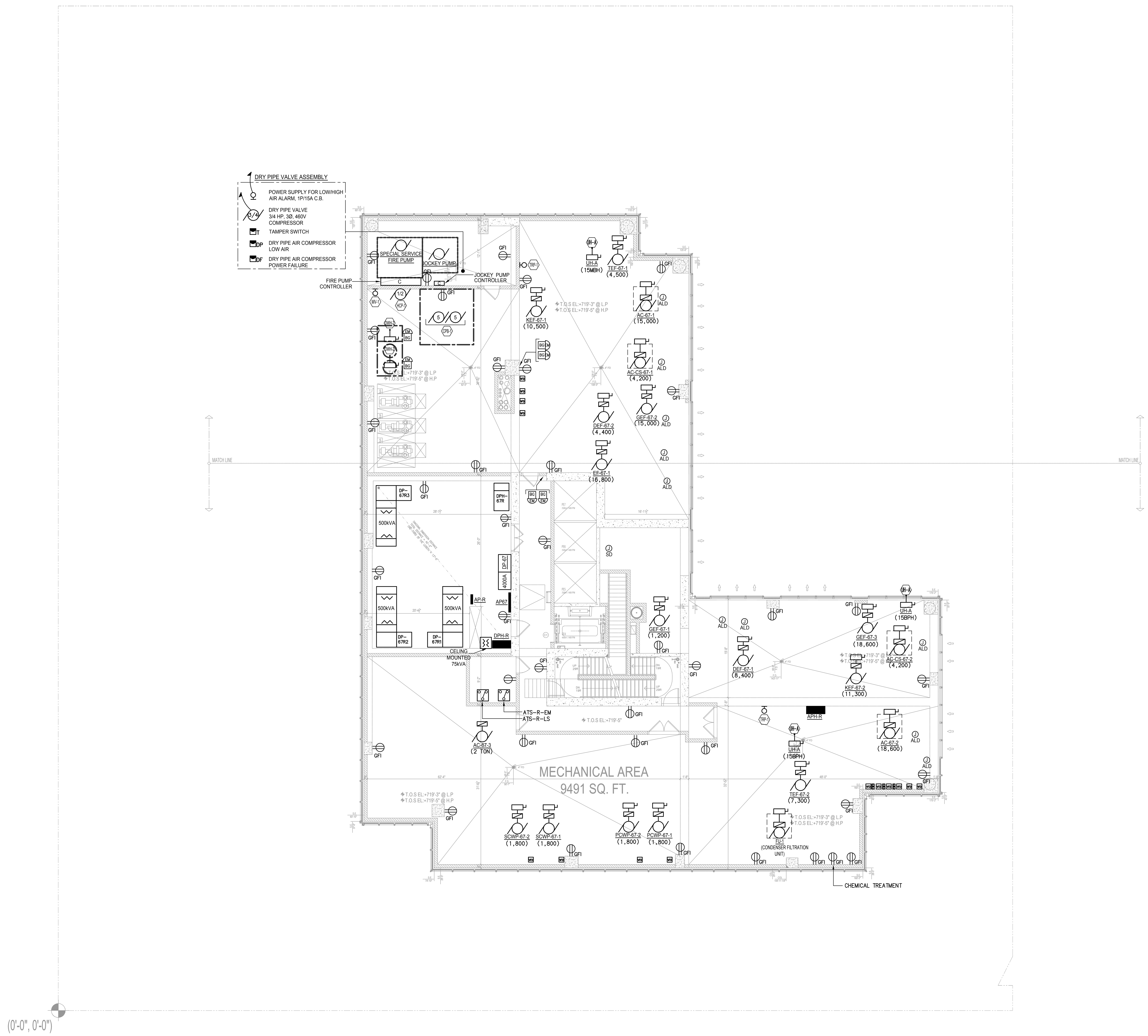

GENERAL NOTES::

1. REFER TO SPECIFICATIONS A FIELD COORDINATE WITH ARCHITECT EXACT LOCATION OF ALL WIRING DEVICES.
2. COORDINATE FINAL LOCATION OF HVAC EQUIPMENT, MOTORIZED DAMPERS AND FIRE SMOKE DAMPERS WITH MECHANICAL TRADE.
3. DRAWINGS FOR ELECTRICAL WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS OF ALL TRADES.
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5. NO EXCLUSION FROM OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR ELECTRICAL WORK OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR ELECTRICAL WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT.
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7. ELECTRICAL WORK SHALL BE PERFORMED TO COMPLY WITH NEW YORK CITY ELECTRICAL CODE AND ALL OTHER CODES HAVING JURISDICTION.

WIRING NOTES:

1. ALL WIRING IN MECHANICAL SPACES SHALL BE MINIMUM OF 2#12 CU IN 3/4" C UNLESS OTHERWISE NOTED. HOMERUNS OVER 75' IN LENGTH SHALL BE SUBJECT TO WIRE SIZE INCREASE AS PER SPECIFICATIONS.
2. RECEPTACLE LAYOUTS SHALL BE AS PER CODE REQUIREMENTS AND SHALL BE APPROVED BY ARCHITECT.
3. REFER TO ARCHITECTURAL POWER/DATA PLANS FOR EXACT LOCATION OF RECEPTACLES.CONNECT NO MORE THAN 6 RECEPTACLES PER CIRCUIT.
4. BRANCH CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE FOR IDENTIFICATION AND GROUPING PURPOSES ONLY AND DO NOT NECESSARILY REFER TO PANELBOARD CIRCUIT NUMBERS.
5. ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER-RESISTANT (CORRIDORS, LOBBIES, ETC); EXCEPT MECHANICAL SPACES AND STORAGE ROOMS. CIRCUIT TO 20A-1P CIRCUIT BREAKERS IN HOUSE PANELS AS SHOWN ON RISER DIAGRAM.
6. APARTMENT RECEPTACLE MARKED 'EM' TO BE FED FROM THE EMERGENCY POWER PANEL AS SHOWN ON STAIR RISER.
7. ALL RECEPTACLE TYPES INDICATED ON PLAN SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR WITH EQUIPMENT MANUFACTURER TO ENSURE PROPER WIRING AND COMPATIBILITY WITH PLUGS OR JUNCTION BOXES FURNISHED AS A PART OF THE EQUIPMENT.
14. PROVIDE GROUND FAULT INTERRUPTER FOR EACH RECEPTACLE LOCATED WITHIN 6FT. OF WATER OR LIQUIDS AND FOR OUTDOORS RECEPTACLES WHETHER INDICATED ON DRAWINGS OR NOT.
15. CONTRACTOR TO FIELD COORDINATE ACTUAL MECHANICAL, PLUMBING, TELECOMMUNICATION, AUDIO VISUAL REQUIREMENTS WITH THEIR RESPECTIVE TRADES FOR LOCATION AND QUANTITY OF ALL REQUIRED CONDUITS AND BRANCH CIRCUITS. REFER TO TEL/COM AND SECURITY DRAWINGS FOR ALL INFORMATION REGARDING TEL/COM AND SECURITY EQUIPMENT, POWER REQUIREMENTS AND CONDUIT RUNS.
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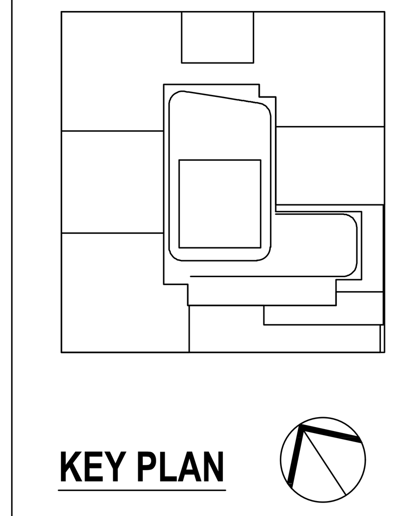
17. FOR EXACT QUANTITY AND LOCATION OF MOTORIZED DAMPERS REFER TO MECHANICAL DRAWINGS. PROVIDE 120V, 20 AMPS CIRCUIT FROM THE NEAREST TYPE APPLIANCE PANEL AS REQUIRED.
18. IN TEL/COM CLOSETS PROVIDE ISOLATED COPPER GROUND BAR, 2"W X 1/4"D X 10"L, WITH PRE-DRILLED HOLES FOR LUGS. MOUNT BAR ON ISOLATORS, CONNECT BAR WITH #4 CU WIRE WITH GREEN INSULATION IN 3/4"C. TO BUILDING GROUNDING SYSTEM. PROVIDE PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT ALONG WALLS OF ROOM AS REQUIRED BY TEL/COM DRAWINGS.
19. PROVIDE WORKING SPACE IN FRONT OF EQUIPMENT. SPACE SHALL BE NOT LESS THAN 30 INCHES IN WIDTH, 36 INCHES IN DEPTH AND 78 INCHES IN HEIGHT SHALL BE PROVIDED IN FRONT OF ELECTRICAL EQUIPMENT OPERATING AT 120/208V. WHERE THE ELECTRICAL SERVICE EQUIPMENT IS WIDER THAN 30 INCHES, THE WORKING SPACE SHALL NOT BE LESS THAN THE WIDTH OF THE EQUIPMENT.
20. DOORS INTO ELECTRICAL ROOMS SHALL BE MARKED WITH A PLAINLY VISIBLE AND LEGIBLE SIGN STATING ELECTRICAL ROOM OR SIMILAR APPROVED WORDING.
21. ALL CIRCUITS TO BE PROVIDED WITH DEDICATED NEUTRALS. IF CONTRACTOR ELECTS TO SHARE NEUTRALS, IT IS HIS RESPONSIBILITY TO PROVIDE A MEANS TO DISCONNECT ALL CIRCUITS SIMULTANEOUSLY.
22. GROUND WIRES SHALL BE INSTALLED IN CONDUIT.
23. WHERE MULTIPLE SWITCHES AND RECEPTACLES ARE INDICATED AT THE SAME LOCATION THEY SHOULD BE GANGED TOGETHER AND MOUNTED BEHIND A COMMON FACEPLATE UNLESS POWERED FROM AN EMERGENCY POWER SOURCE. PROVIDE SEPARATE OUTLETS BOXES FOR NORMAL AND EMERGENCY CIRCUITS.
24. MOUNTING HEIGHTS OF EQUIPMENT SHALL BE COORDINATED WITH ARCHITECT.
25. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY GASKETED FOR A COMPLETE RAIN TIGHT INSTALLATION. ALL BUILDING EXTERIOR MOUNTED RECEPTACLES SHALL BE GFCI RATED AND MOUNTED IN WEATHERPROOF ENCLOSURE.
26. THE AREA ABOVE THE ELECTRICAL EQUIPMENT SUCH AS DISTRIBUTION BOARDS, PANELBOARDS, TRANSFORMERS ETC. SHALL BE DEDICATED FOR ELECTRICAL INSTALLATION AND SHALL BE CLEAR FROM WORK OF OTHER TRADES (PIPING DUCTS, ETC.).
27. PROVIDE AND/OR REVISE THE PANEL DIRECTORY OF EACH AND EVERY PANELBOARD AFFECTED BY THIS ELECTRICAL WORK.
28. PROVIDE UNFUSED DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS.
29. ALL EQUIPMENT SHALL HAVE COPPER CURRENT CARRYING PARTS INCLUDING GROUND BUS AND TERMINALS. ALUMINUM SHALL NOT BE PERMITTED.
30. PROVIDE 4-INCH HIGH CONCRETE HOUSING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR.
31. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION AND MAINTENANCE OF TEMPORARY LIGHTING FOR DURATION OF A CONTRACT.
32. WHENEVER ELECTRONIC OR ADJUSTABLE CIRCUIT BREAKERS ARE PROVIDED, THE CONTRACTOR SHALL SUBCONTRACT THE SERVICES OF A QUALIFIED SWITCHBOARD MANUFACTURER TO CALCULATE REQUIRED TRIP COORDINATION SETTINGS INCLUDING BUT NOT LIMITED TO THE LONG DELAY, SHORT DELAY, GROUND FAULT, PICKUP TIP TIMES AND SHORT CURRENT, ETC. THE CONTRACTOR SHALL ALSO INCLUDE THE SERVICES OF THE MANUFACTURER'S FIELD SERVICE TECHNICIAN TO INSTALL, PROGRAM AND ADJUST CIRCUIT BREAKERS. PROVIDE ALL NECESSARY JUMPER CONNECTIONS, CONTROL WIRES AND MODIFICATIONS.
33. WHENEVER EXCAVATION, CORE DRILLING OR CUTTING OF SLAB, CONCRETE OR PAVEMENT ARE PERFORMED, THE CONTRACTOR SHALL HIRE AN EXPERT TO PERFORM SUBSURFACE SCANS TO IDENTIFY AND FLAG UTILITIES, REBARS, ETC., SO THEY ARE NOT DAMAGED. ANY DEVIATIONS FROM THE PENETRATIONS INDICATED ON THE CONTRACT DOCUMENTS MUST BE APPROVED BY THE EOR AND/OR OWNER.
34. ALL PENETRATIONS THROUGH SLABS OR FIRE RATED PARTITIONS SHALL BE FIRE STOPPED USING APPROVED METHOD TO MAINTAIN THE FIRE RESISTANCE RATING.
35. LOCATION OF ALL ELECTRICAL EQUIPMENT IS APPROXIMATE, EXACT LOCATION TO BE VERIFIED IN THE FIELD.



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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
67TH FLOOR POWER PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
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E-167.00
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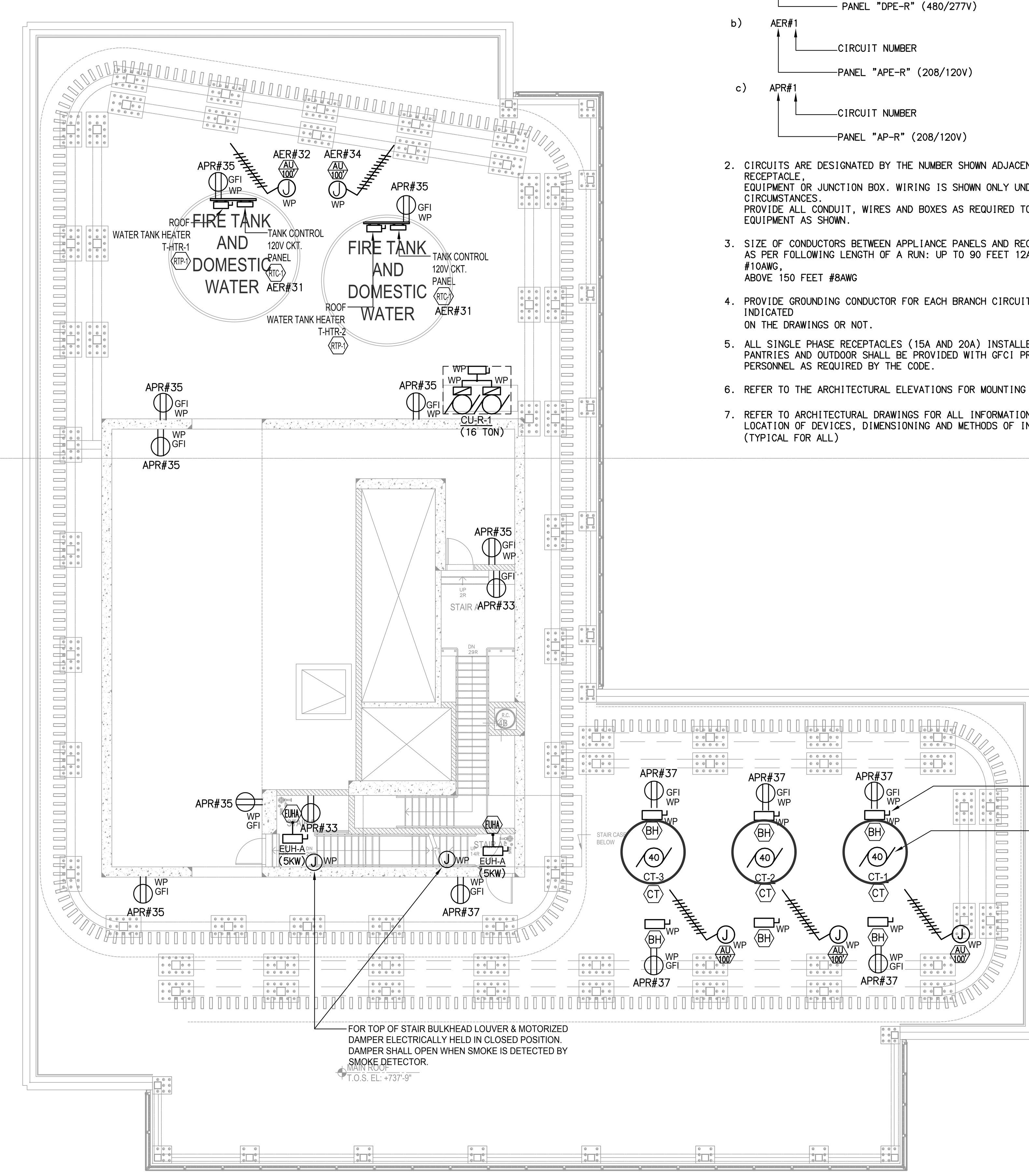

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CIRCUIT NOTES:

1. PANELBOARD DESIGNATIONS WITH CIRCUIT NUMBERS ARE ABBREVIATED AS FOLLOWS:

   a) DHE#1 — CIRCUIT NUMBER — PANEL "DPE-R" (480/277V)

   b) AER#1 — CIRCUIT NUMBER — PANEL "APE-R" (208/120V)

   c) APR#1 — CIRCUIT NUMBER — PANEL "AP-R" (208/120V)

2. CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH RECEPTACLE, EQUIPMENT OR JUNCTION BOX. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE ALL CONDUIT, WIRES AND BOXES AS REQUIRED TO ENERGIZE THE EQUIPMENT AS SHOWN.

3. SIZE OF CONDUCTORS BETWEEN APPLIANCE PANELS AND RECEPTACLES SHALL BE AS PER FOLLOWING LENGTH OF A RUN: UP TO 90 FEET 12AWG, 91 TO 150 FEET #10AWG, ABOVE 150 FEET #8AWG

4. PROVIDE GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT, WHETHER IT IS INDICATED ON THE DRAWINGS OR NOT.

5. ALL SINGLE PHASE RECEPTACLES (15A AND 20A) INSTALLED IN BATHROOMS, PANTRIES AND OUTDOOR SHALL BE PROVIDED WITH GFCI PROTECTION FOR PERSONNEL AS REQUIRED BY THE CODE.

6. REFER TO THE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.

7. REFER TO ARCHITECTURAL DRAWINGS FOR ALL INFORMATION REGARDING EXACT LOCATION OF DEVICES, DIMENSIONING AND METHODS OF INSTALLATIONS. (TYPICAL FOR ALL)

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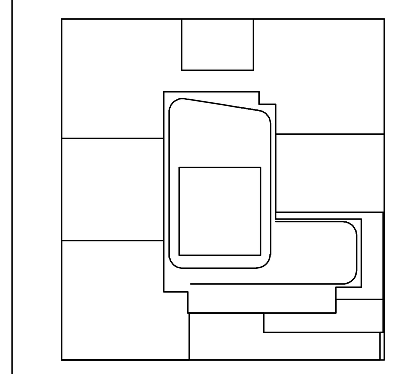

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
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	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
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Consultant:
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Cosentini Associates
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New York, NY 10121
(212) 615-3600
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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
ROOF POWER PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
E-168.00
DWG NO.
000F

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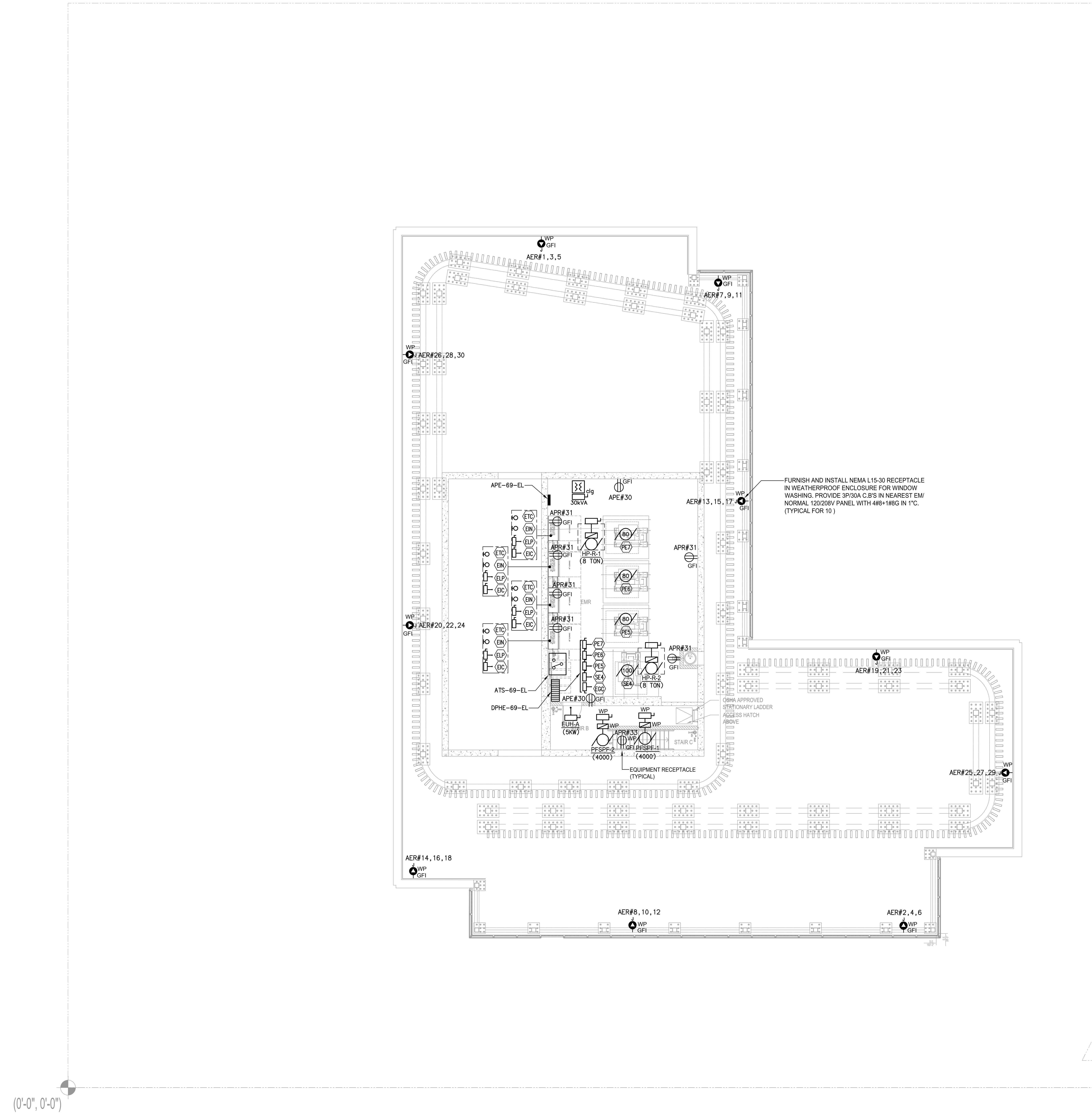

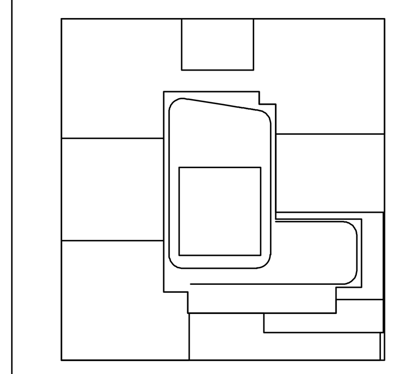

KEY PLAN

NOTES:

CIRCUIT NOTES:

1. PANELBOARD DESIGNATIONS WITH CIRCUIT NUMBERS ARE ABBREVIATED AS FOLLOWS:

a) AER#1
- CIRCUIT NUMBER
- PANEL "APE-R" (208/120V)

b) AE#1
- CIRCUIT NUMBER
- PANEL "APE-69-EL" (208/120V)

c) APR#1
- CIRCUIT NUMBER
- PANEL "AP-R" (208/120V)

2. CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH RECEPTACLE, EQUIPMENT OR JUNCTION BOX. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE ALL CONDUIT, WIRES AND BOXES AS REQUIRED TO ENERGIZE THE EQUIPMENT AS SHOWN.

3. SIZE OF CONDUCTORS BETWEEN APPLIANCE PANELS AND RECEPTACLES SHALL BE AS PER FOLLOWING LENGTH OF A RUN: UP TO 90 FEET 12AWG, 91 TO 150 FEET #10AWG, ABOVE 150 FEET #8AWG.

4. PROVIDE GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT, WHETHER IT IS INDICATED ON THE DRAWINGS OR NOT.

5. ALL SINGLE PHASE RECEPTACLES (15A AND 20A) INSTALLED IN BATHROOMS, PANTRIES, OUTDOOR SHALL BE PROVIDED WITH GFCI PROTECTION FOR PERSONNEL AS REQUIRED BY THE CODE.

6. REFER TO THE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.

7. REFER TO ARCHITECTURAL DRAWINGS FOR ALL INFORMATION REGARDING EXACT LOCATION OF DEVICES, DIMENSIONING AND METHODS OF INSTALLATIONS. (TYPICAL FOR ALL).

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
E.M.R/ROOF POWER PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK
DOUGLAS C. MASS
No. 58375
LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
E-169.00
DWG NO.
XX OF XXX

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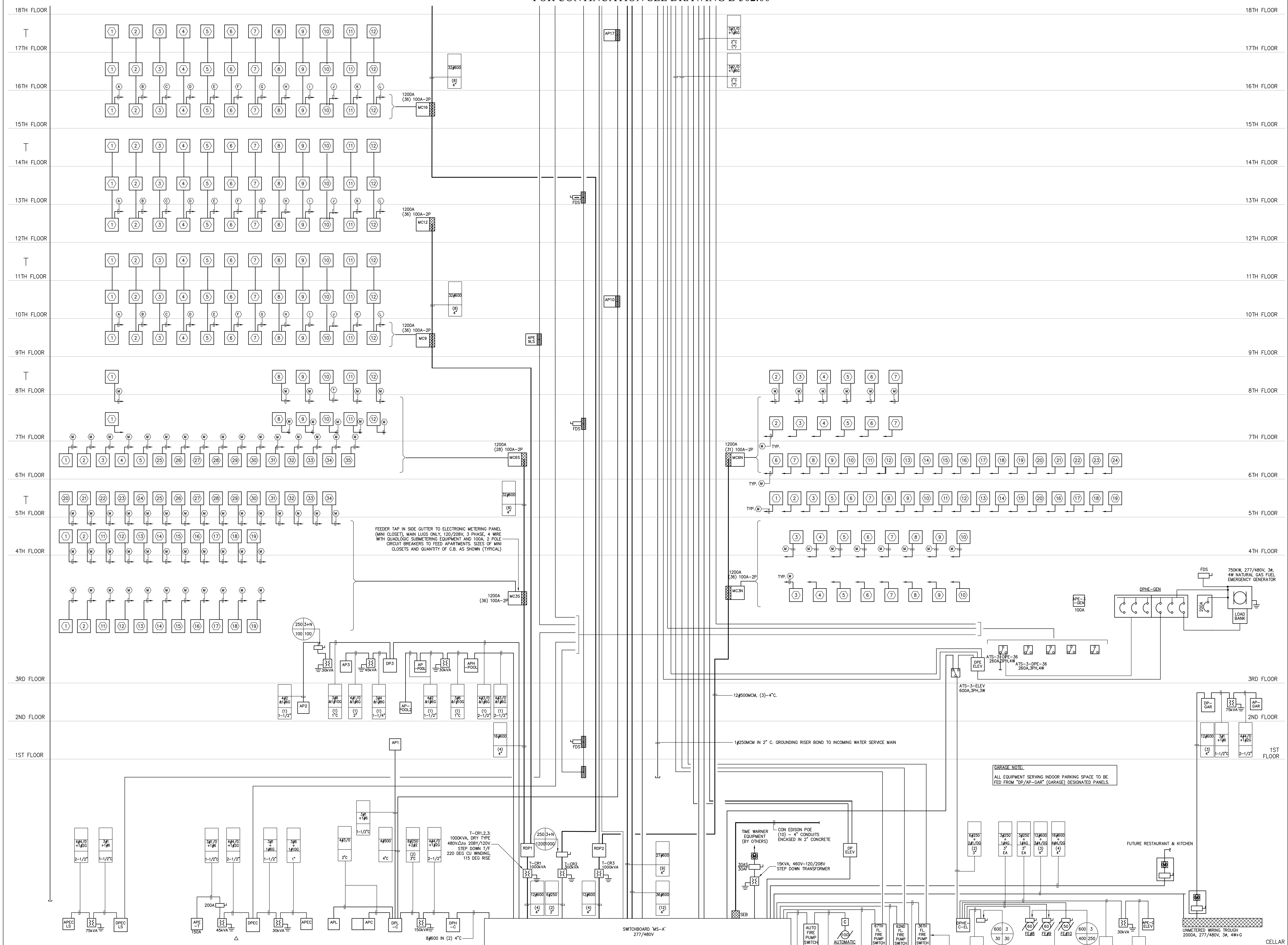
FOR CONTINUATION SEE DRAWING E-302.00



NOTES:

(*) –PROVIDE MINIMUM OF 2" CONCRETE ENCASEMENT FOR THE FEEDER OR IF THIS ALLOWED BY THE CODE (2) HOUR FIRE RATED FEEDER ASSEMBLY (IN FORM OF MI CABLE)
(2) –PROVIDE 2" MINIMUM OF CONCRETE ENCASEMENT FOR ALL CONDUITS ENTERING AND INSIDE THE BUILDING.
REFER TO CIVIL ENGINEER DRAWINGS FOR CONDUITS ROUTING OUTSIDE OF BUILDING.
(3) –PROVIDE GROUND WIRE FOR ALL FEEDERS LOCATED UNDERGROUND AND BELOW THE SLAB.
(4) –PROVIDE CABLE SUPPORTS AS REQUIRED BY THE CODE.

NOTES:

1. THE ELECTRICAL DESIGN FOLLOWS ASHREA 90.1 ENERGY CODE REQUIREMENTS WITH MAXIMUM 2% VOLTAGE DROP FOR FEEDERS INCLUDING EMERGENCY POWER.
2. TRIPLEX PUMPS ON UTILITY POWER ARE CIRCUITED AND PROTECTED BASED ON POSSIBILITY OF ALL THREE BEING ON LINE.
3. FOR BUILDING 120' OR HIGHER FIRE SERVICE ELEVATOR IS REQUIRED AS PER NYC 2014 BUILDING CODE. (2) HOUR RATED PROTECTION IS REQUIRED FOR NORMAL AND EMERGENCY FEEDERS.

SINGLE LINE RISER DIAGRAM

(NOT TO SCALE)

KEY PLAN

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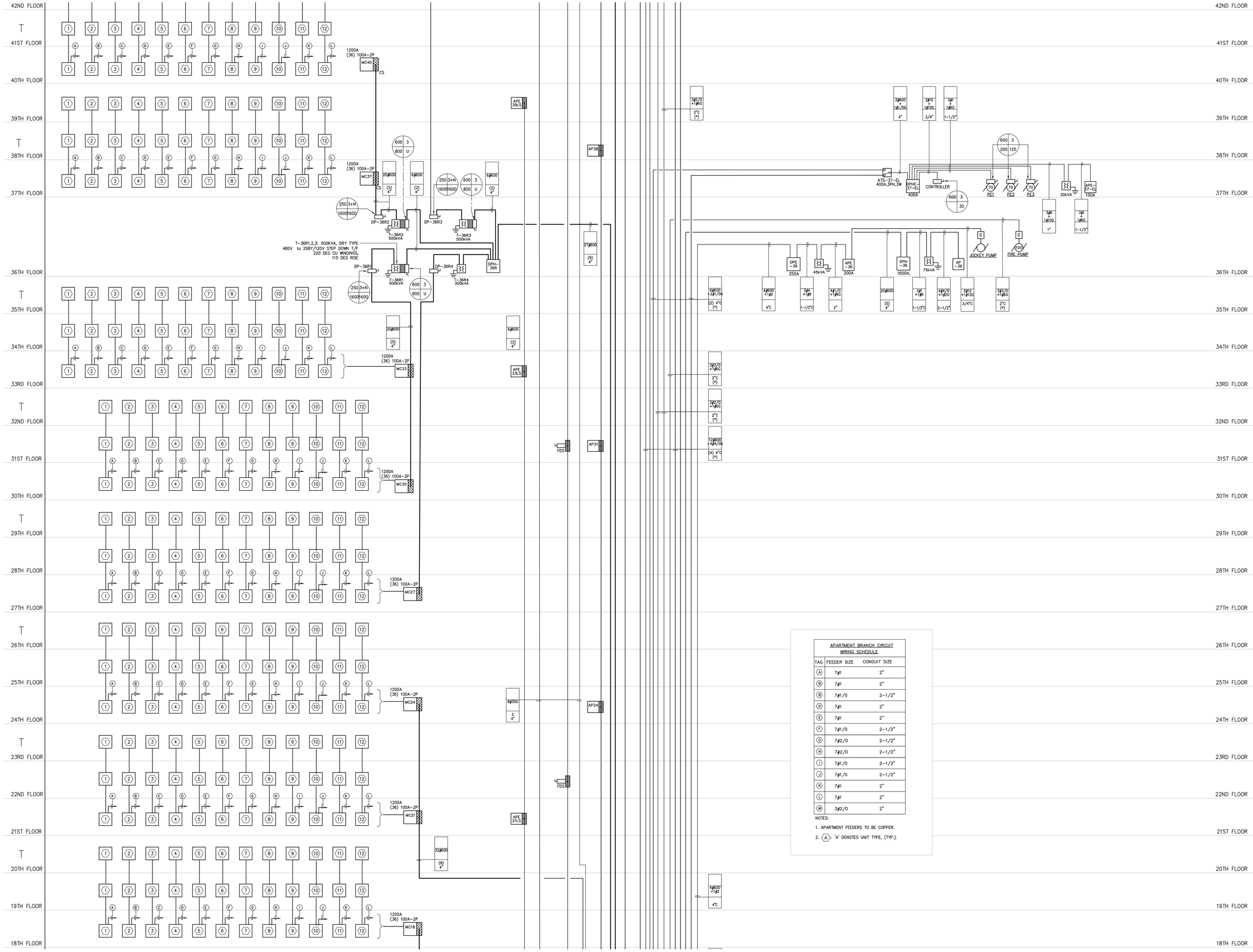
DWG TITLE:
ELECTRICAL
RISER DIAGRAM - SHEET #1

SEAL & SIGNATURE:
STATE OF NEW YORK DOUGLAS C. MASS No. 58375 LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-301.00
DWG NO.
OF

DEPT OF BUILDINGS 420005954 Job Number
E3139997103445 Scan Code

FOR CONTINUATION SEE DRAWING E-303.00



FOR CONTINUATION SEE DRAWING E-301.00

APARTMENT BRANCH CIRCUIT WIRING SCHEDULE		
TAG	FEEDER SIZE	CONDUIT SIZE
Ⓐ	7#1	2"
Ⓑ	7#1	2"
Ⓑ	7#1/0	2–1/2"
Ⓓ	7#1	2"
Ⓔ	7#1	2"
Ⓕ	7#1/0	2–1/2"
Ⓖ	7#2/0	2–1/2"
Ⓗ	7#2/0	2–1/2"
Ⓘ	7#1/0	2–1/2"
Ⓙ	7#1/0	2–1/2"
Ⓚ	7#1	2"
Ⓛ	7#1	2"
Ⓜ	3#2/0	2"

NOTES:
1. APARTMENT FEEDERS TO BE COPPER.
2. Ⓐ: "A" DENOTES UNIT TYPE, (TYP.).

KEY PLAN

NOTES:

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
RISER DIAGRAM - SHEET #1

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15BB318
SCALE: NONE
E-302.00
DWG NO.
OF

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DEPT OF BUILDINGS 420055954 Job Number
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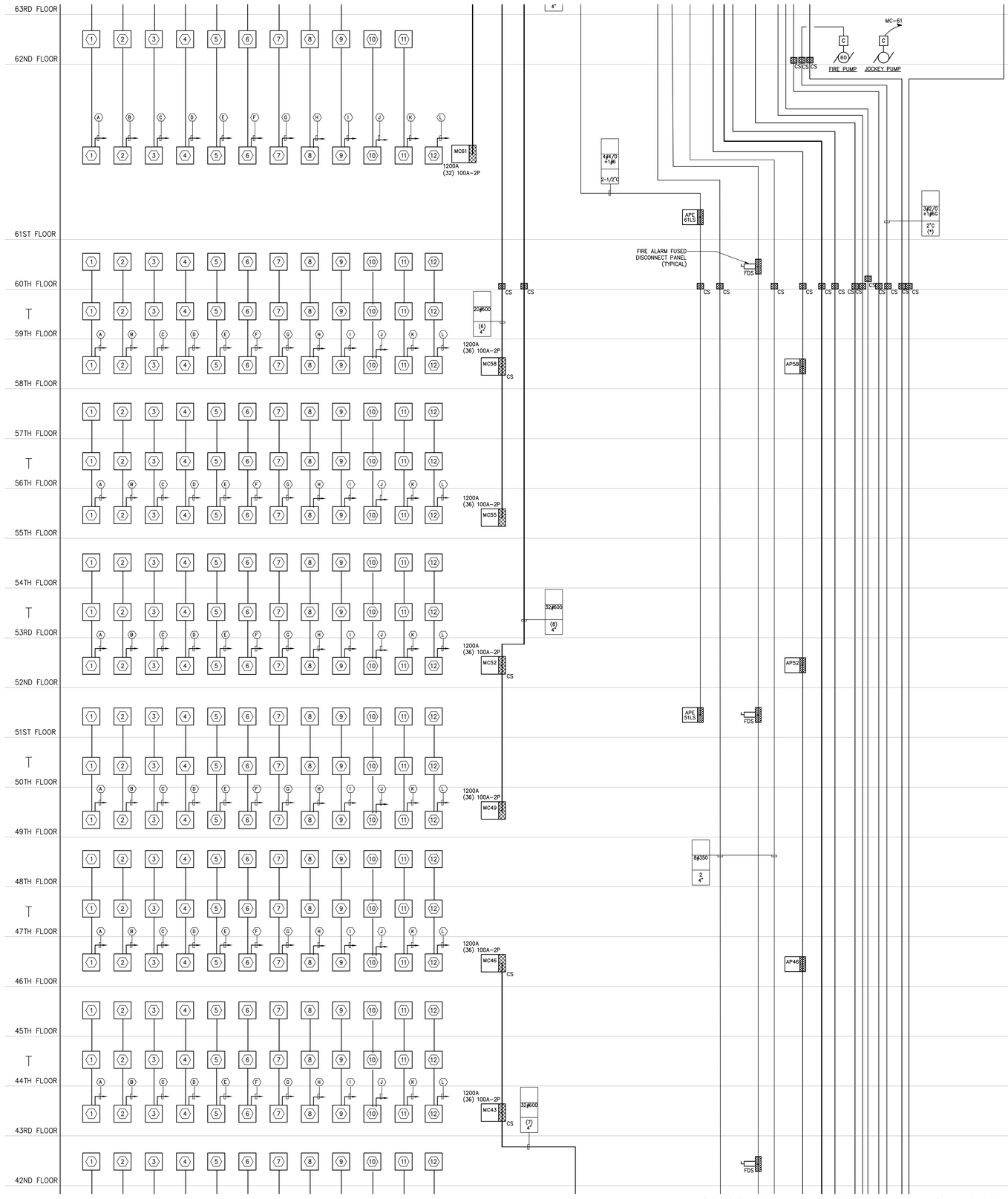

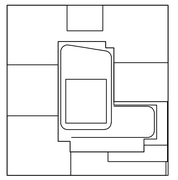

KEY PLAN

NOTES:

1. IN ADDITION TO PULLBOXES SHOWN, PROVIDE ALL PULL, SPLICE, AND CABLE-SUPPORT BOXES AS REQUIRED BY CODE AND FIELD CONDITIONS.
2. FOR MOTOR & TRANSFORMER CONNECTIONS, FEEDERS, AND OVERCURRENT PROTECTION RATINGS, AND WHERE FEEDERS ARE NOT LISTED ON RISER, USE SCHEDULES ON DRAWING E405.00 U.O.N.
3. METER TROUGH "MT-1" FEEDING RETAIL SPACE IN 1ST FLOOR, CELLAR AND GARAGE IN 2ND FLOOR.
4. PROVIDE CONTROL WIRING FROM THE EACH AUTOMATIC TRANSFER SWITCH TO GENERATOR CONTROL PANEL.
5. PROVIDE CONTROL CONDUIT TO EACH ATS AS REQUIRED BY GENERATOR MANUFACTURER. COORDINATE STUB-UP LOCATION WITH GENERATOR VENDOR AND FIELD CONDITIONS. SEE SPECIFICATIONS FOR MORE INFORMATION.
6. FOR EACH GENERATOR INCLUDE 2#14 VOLTAGE SENSING CIRCUIT RUN IN CONDUIT FROM GENERATORS TO BUILDING MANAGEMENT SYSTEM PANEL TO SENSE "EMERGENCY POWER." TERMINATE IN OUTLET BOX WITH SLACK CONDUCTORS (FOR EXTENSION BY OTHERS) AT PANEL. CONNECT TO OUTPUT CONTACT AT GENERATOR CONTROL PANEL.
7. ELECTRICAL CONTRACTOR TO PROVIDE MODBUS TO BACNET CONVERTER TO ALLOW BUILDING MANAGEMENT SYSTEM TO READ SELECTED GENERATOR PARAMETERS. PROVIDE FOR EACH GENERATOR. PROVIDE NECESSARY CONDUIT AND WIRING. TERMINATIONS TO BMS SIDE TO BE MADE BY BMS VENDOR.

APARTMENT BRANCH CIRCUIT WIRING SCHEDULE

TAG	FEEDER SIZE	CONDUIT SIZE
(A)	7#1	2"
(B)	7#1	2"
(B)	7#1/0	2-1/2"
(D)	7#1	2"
(E)	7#1	2"
(F)	7#1/0	2-1/2"
(G)	7#2/0	2-1/2"
(H)	7#2/0	2-1/2"
(I)	7#1/0	2-1/2"
(J)	7#1/0	2-1/2"
(K)	7#1	2"
(L)	7#1	2"

NOTES:

1. APARTMENT FEEDERS TO BE COPPER.
2. (A)- 'A' DENOTES UNIT TYPE, (TYP.).

NOTES:

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
RISER DIAGRAM - SHEET #1

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15109315
SCALE: NONE
DWG NO. E-303.00

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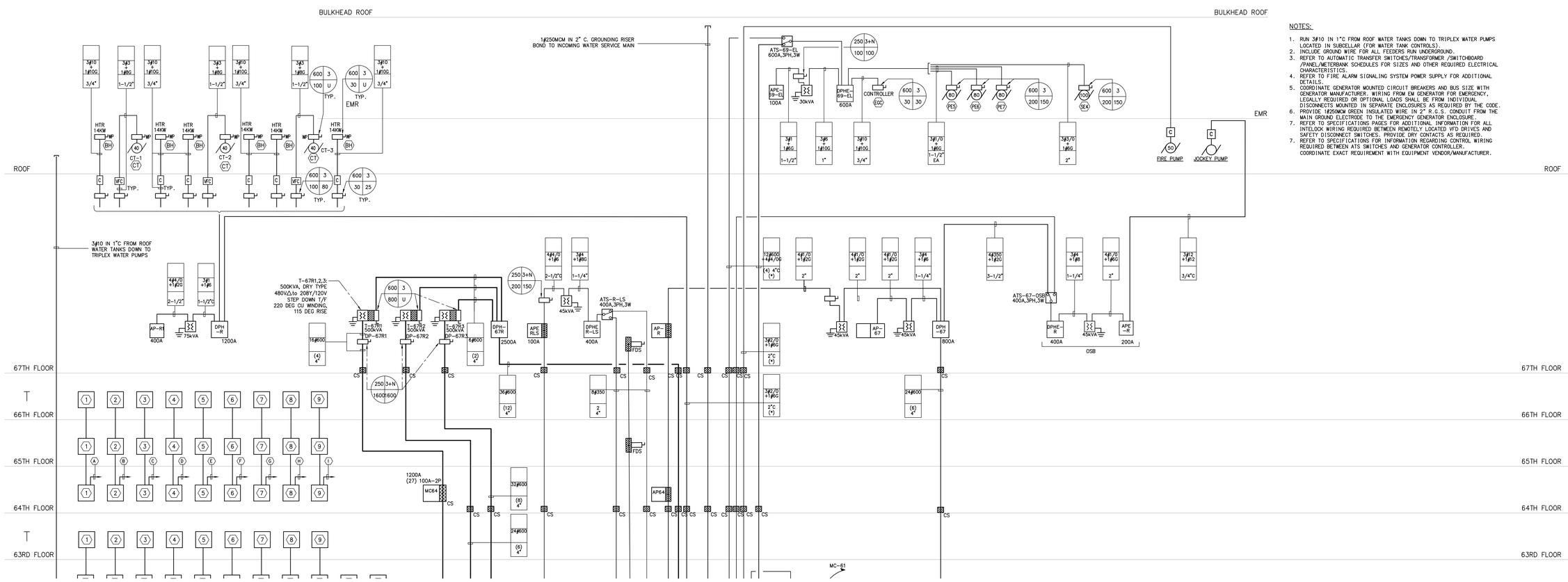
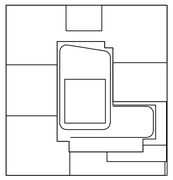


NOTES:

1. RUN 3#10 IN 1"C FROM ROOF WATER TANKS DOWN TO TRIPLEX WATER PUMPS LOCATED IN SUBCELLAR (FOR WATER TANK CONTROLS).
2. INCLUDE GROUND WIRE FOR ALL FEEDERS RUN UNDERGROUND.
3. REFER TO AUTOMATIC TRANSFER SWITCHES/TRANSFORMER /SWITCHBOARD /PANEL/METERBANK SCHEDULES FOR SIZES AND OTHER REQUIRED ELECTRICAL CHARACTERISTICS.
4. REFER TO FIRE ALARM SIGNALING SYSTEM POWER SUPPLY FOR ADDITIONAL DETAILS.
5. COORDINATE GENERATOR MOUNTED CIRCUIT BREAKERS AND BUS SIZE WITH GENERATOR MANUFACTURER. WIRING FROM EM GENERATOR FOR EMERGENCY, LEGALLY REQUIRED OR OPTIONAL LOADS SHALL BE FROM INDIVIDUAL DISCONNECTS MOUNTED IN SEPARATE ENCLOSURES AS REQUIRED BY THE CODE.
6. PROVIDE 1#250KCMM GREEN INSULATED WIRE IN 2" R.G.S. CONDUIT FROM THE MAIN GROUND ELECTRODE TO THE EMERGENCY GENERATOR ENCLOSURE.
7. REFER TO SPECIFICATIONS PAGES FOR ADDITIONAL INFORMATION FOR ALL INTELOCK WIRING REQUIRED BETWEEN REMOTELY LOCATED VFD DRIVES AND SAFETY DISCONNECT SWITCHES. PROVIDE DRY CONTACTS AS REQUIRED.
7. REFER TO SPECIFICATIONS FOR INFORMATION REGARDING CONTROL WIRING REQUIRED BETWEEN ATS SWITCHES AND GENERATOR CONTROLLER. COORDINATE EXACT REQUIREMENT WITH EQUIPMENT VENDOR/MANUFACTURER.

FOR CONTINUATION SEE DRAWING E-303.00



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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
RISER DIAGRAM - SHEET #1

SEAL & SIGNATURE:

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PROJECT #: 150318
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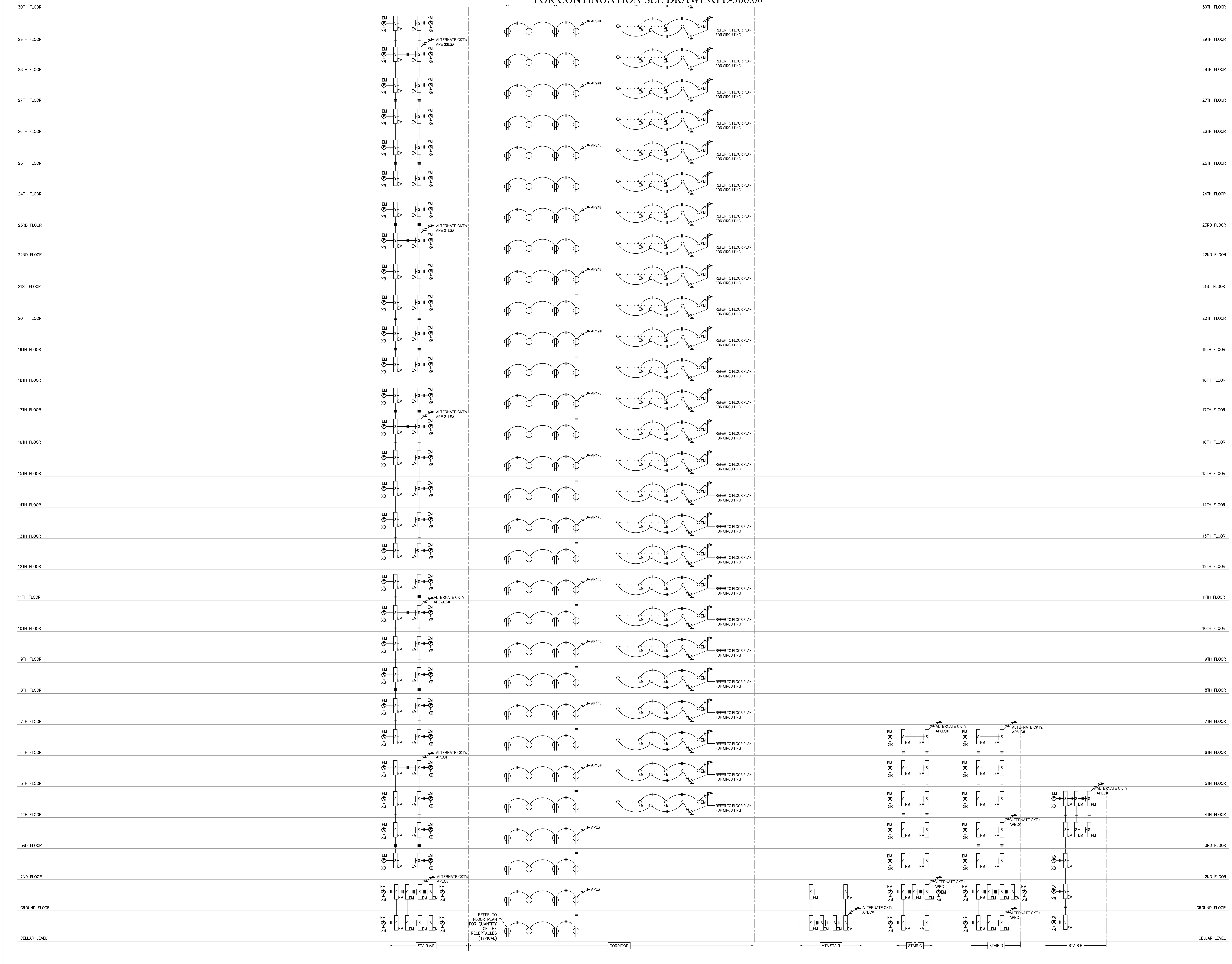
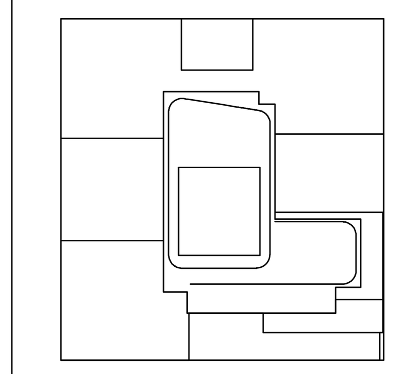


STAIR EXIT AND CORRIDOR RISER DIAGRAM

(NOT TO SCALE)



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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
CORRIDOR & EXIT STAIR RISER DIAGRAM - SHEET #1

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-305.00
DWG NO.
OF

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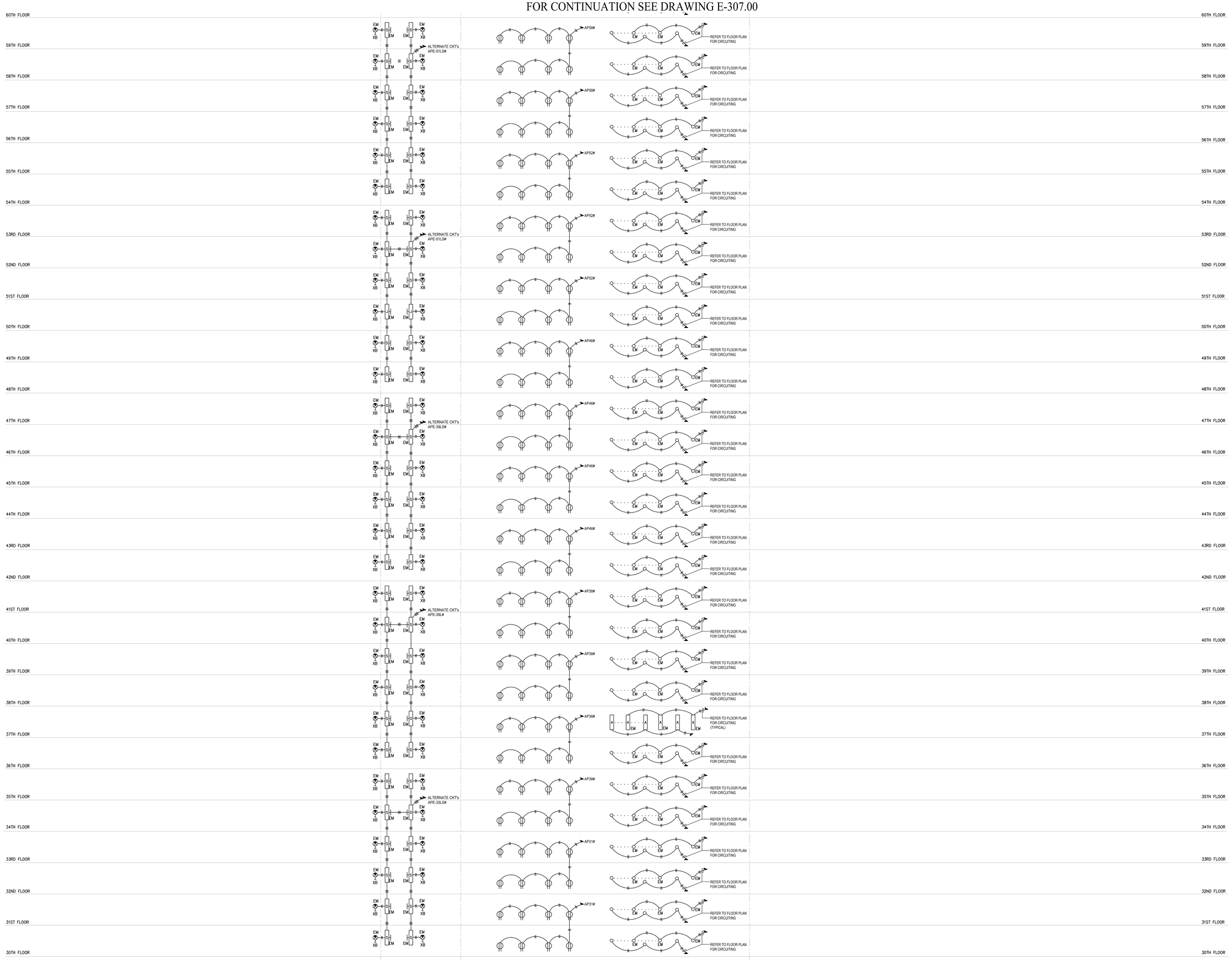

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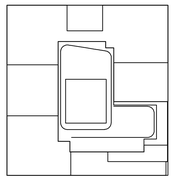

KEY PLAN

NOTES:

NOT	FOR	CONSTRUCTION
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Number: Date: Revision:

Project:

City View Tower at Court Square

23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC

112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

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Consultant:

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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL

CORRIDOR & EXIT STAIR RISER DIAGRAM - SHEET #1

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. KAHN · No. 68375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 15/0503/18
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DWG NO. E-306.00
OF

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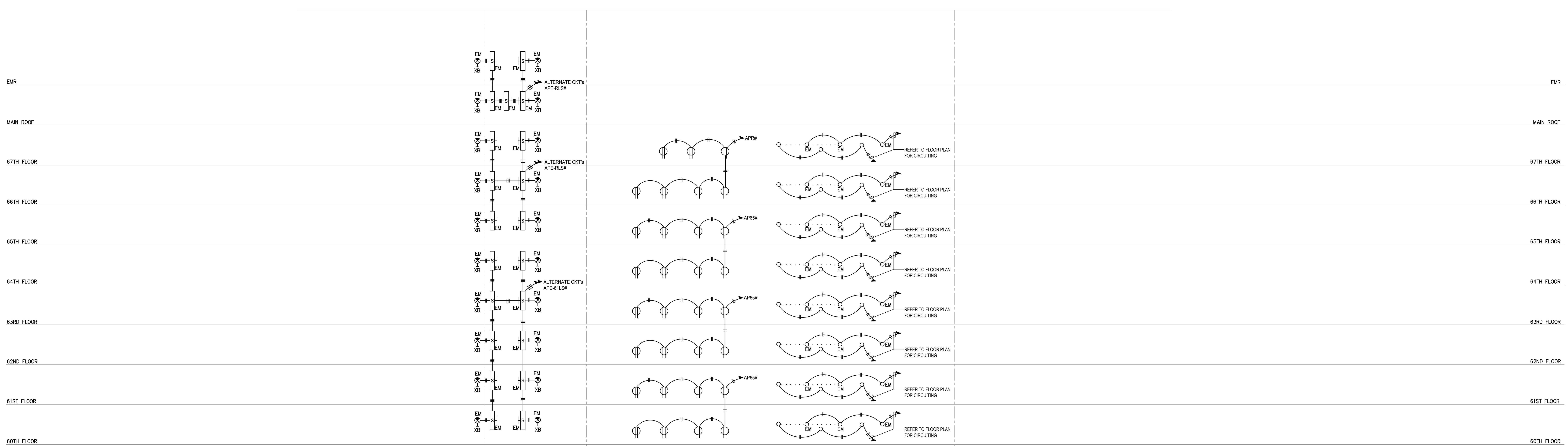

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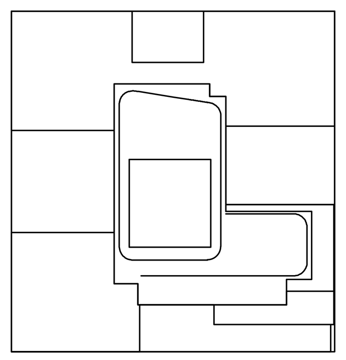

KEY PLAN

NOTES:

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Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
CORRIDOR & EXIT STAIR RISER DIAGRAM - SHEET #1

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE

E-307.00
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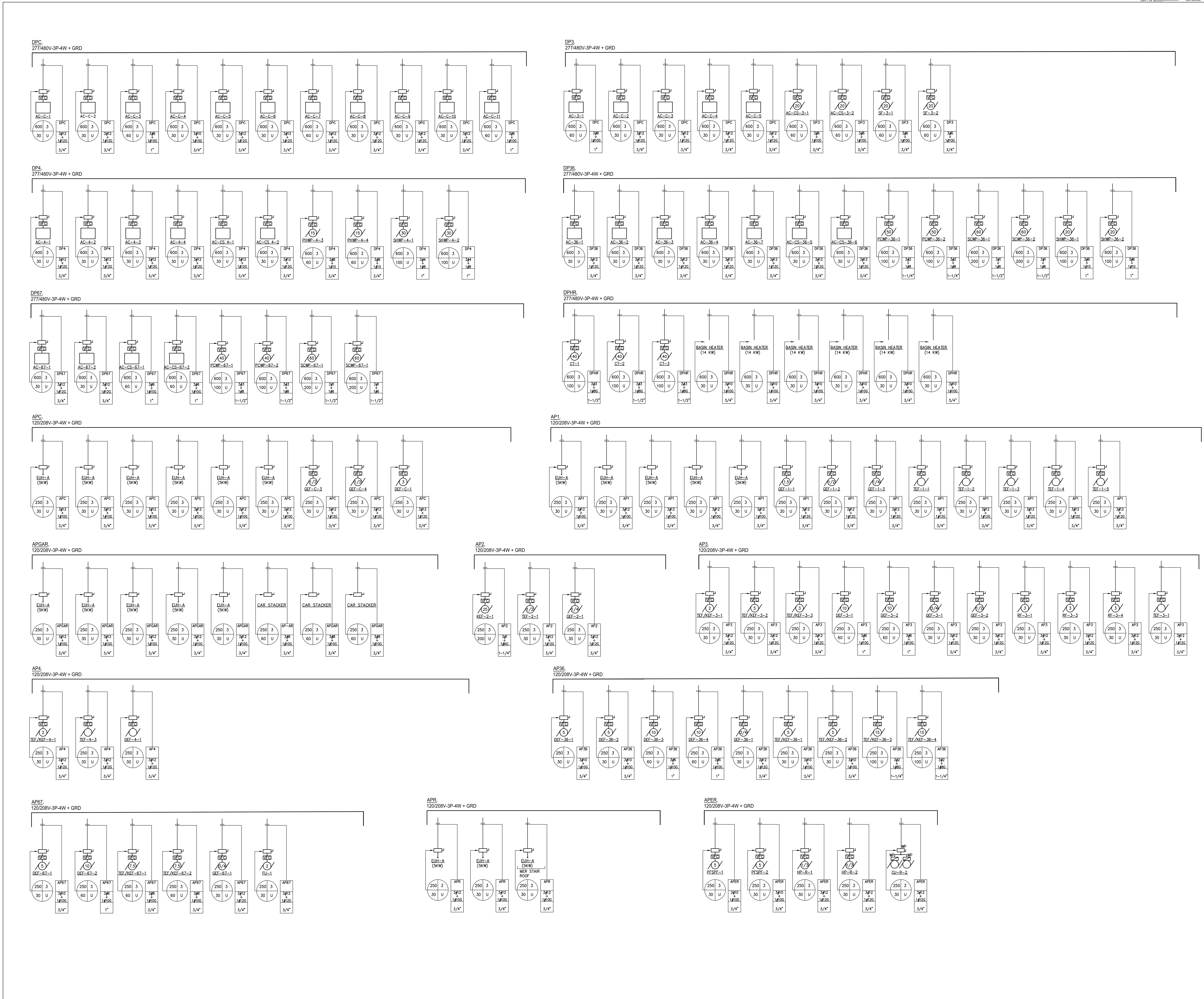

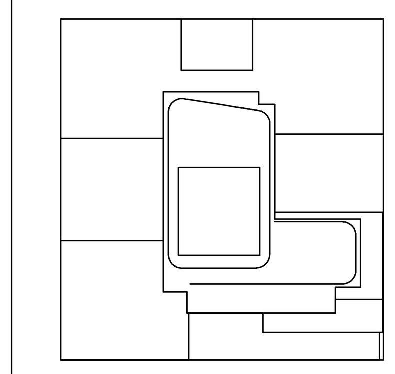

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
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	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
RISER DIAGRAM - SHEET #4

SEAL & SIGNATURE:
STATE OF NEW YORK DOUGLAS C. MASS No. 58375 LICENSED PROFESSIONAL ENGINEER

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PROJECT #: 150318
SCALE: NONE
E-308.00
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MAIN SWITCHBOARD SCHEDULE

	SWITCHBOARD DESIGNATION:	MS-A	
SUPPLY CHARACTERISTICS:	VOLTS: 277/480	PHASE: 3φ	WIRES: 4+G
MAIN BUS RATING: 5000A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: MAIN SECONDARY DISTRIBUTION 'SWITCHBOARD		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
-	-	-	3+N	REMOTE SWITCH		
-	800A	800A	3+N	-	1241445	FIRE PUMP (125 HP)
-	600A	500A	3+N	-	76397	RESIDENTIAL AUTO FIRE PUMP (75 HP)
-	400A	400A	3+N	-	61277	RESIDENTIAL AUTO FIRE PUMP (60 HP)
-	400A	300A	3+N	-	41382	RESIDENTIAL AUTO FIRE PUMP (40 HP)
1	2500A	2500A	3+N	MS-A#1	-	SWITCHBOARD DPC-R
2	2500A	2500A	3+N	MS-A#2	-	SWITCHBOARD DP-36R
3	2000A	2000A	3+N	MS-A#3	-	SWITCHBOARD DP-67R
4	1200A	1200A	3+N	MS-A#4	-	DISTRIBUTION BOARD DP-ELEV
5	3000A	3000A	3+N	MS-A#5	-	HOUSE S/S
6	400A	400A	3+N	MS-A#6	-	UNMETERED RETAIL TROUGH
	200	200	3+N	SPARE	0	
	100	100	3+N	SPARE	0	

TOTAL LOAD: 1421 KVA 1709 AMPS

NOTES:

A) ITEM REFERED TO THIS NOTE IS AN EXTENSION OF THE MAIN SWITCHBOARD TO A SERVICE CONNECTION POINT. THE NECESSARY ADJUSTMENT FOR VOLTAGE DROP MUST BE ADDED TO THIS RATING.

B) ITEM REFERED TO THIS NOTE IS CURRENT TRANSFORMATION EQUIPMENT FOR UTILITY COMPANY METERING FURNISHED SEPARATE FROM ELECTRIC WORK BUT INSTALLED AS PART OF THE SAME.

C) ITEM REFERED TO THIS NOTE IS A 4" HIGH CONCRETE PAD UNDER SWITCHBOARD.

D) WIRING DIAGRAMS SHOWN ARE DIAGRAMMATIC. REFER TO SWITCHBOARD MANUFACTURER'S SHOP DRAWINGS FOR EXACT DIMENSIONS AND SWITCH CONFIGURATIONS.

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPHE-R	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 400A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: MECHANICAL EQUIPMENT		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200A	125A	3	AP-R	-	VIA 75kVA T/F
2	100A	80A	3	CT-1	41382	
4	100A	80A	3	CT-2	41382	
5	100A	80A	3	CT-3	41382	
6	30	25	3	CT-1 HTR	14000	
7	30	25	3	CT-1 HTR	14000	
8	30	25	3	CT-2 HTR	14000	
9	30	25	3	CT-2 HTR	14000	
10	30	25	3	CT-3 HTR	14000	
11	30	25	3	CT-3 HTR	14000	
12	100	-	3	SPARE		
13	100	-	3	SPARE		
14	60	-	3	SPARE		
15	60	-	3	SPARE	-	
16	30	-	3	SPARE		
17	30	-	3	SPARE	-	

TOTAL LOAD: 208 KVA 250 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPE-C	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 1200A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: 1200A	USAGE:		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200A	200A	3	DPE-C#1	-	APE-C VIA T/F
2	200A	200A	3	DPE-C#2	-	AP-T VIA T/F
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPL-C	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 120/208	PHASE: 3φ	WIRES: 4+G
MAIN BUS RATING: 1200A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: 1200A	USAGE:		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200A	200A	3	DPL-C#1	-	AP-C (SECT I & II)
2	100A	100A	3	DPL-C#2	-	AP-1
4	100A	100A	3	DPL-C#3	-	AP-L
5	100A	100A	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DP-GAR	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 1200A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	400	250	3	SPARE	-	
2	400	250	3	SPARE	-	
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DP-ELEV	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 1200A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	400	250	3	SPARE	-	
2	400	250	3	SPARE	-	
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPHE-R	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 400A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: MECHANICAL EQUIPMENT		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200A	125A	3	AP-R	-	VIA 75kVA T/F
2	100A	80A	3	CT-1	41382	
4	100A	80A	3	CT-2	41382	
5	100A	80A	3	CT-3	41382	
6	30	25	3	CT-1 HTR	14000	
7	30	25	3	CT-1 HTR	14000	
8	30	25	3	CT-2 HTR	14000	
9	30	25	3	CT-2 HTR	14000	
10	30	25	3	CT-3 HTR	14000	
11	30	25	3	CT-3 HTR	14000	
12	100	-	3	SPARE		
13	100	-	3	SPARE		
14	60	-	3	SPARE		
15	60	-	3	SPARE	-	
16	30	-	3	SPARE		
17	30	-	3	SPARE	-	

TOTAL LOAD: 208 KVA 250 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPE-ELEV	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 600A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: 600A	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	400	250	3	SPARE	-	
2	400	250	3	SPARE	-	
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DP-3	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 400A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE:	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	400	250	3	AP3	-	VIA 45kVA T/F
2	400	250	3	SPARE	-	
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPH-C	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 800A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: -	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200A	200A	3	SPARE	-	
2	400	250	3	SPARE	-	
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPH-67R	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 2000A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	800	800	3	DP-67R1 (MC-64, 61)	500000	VIA 500kVA T/F
2	800	800	3	DP-67R2 (MC-58, 55)	500000	VIA 500kVA T/F
4	800	800	3	DP-67R2 (MC-52, 49)	500000	VIA 500kVA T/F
5	200	-	3	SPARE		
6	-	-	3	SPACE		

TOTAL LOAD: 1500 KVA 1804 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPH-36	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 1600A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	400	250	3	SPARE	-	
2	400	250	3	SPARE	-	
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPH-36R	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 2000A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: TENANT DISTRIBUTION PANEL		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	800	800	3	DP-36R1 (MC-30, 33)	500000	VIA 500kVA T/F
2	800	800	3	DP-36R2 (MC-37, 40)	500000	VIA 500kVA T/F
4	800	800	3	DP-36R3 (MC-43, 46)	500000	VIA 500kVA T/F
5	800	800	3	DP-36R4 (MC-27)	300000	VIA 500kVA T/F
6	100	-	3	SPARE	-	
7	30	30	3	SPARE	-	
8	30	30	3	SPARE	-	
9	-	-	3	SPARE	-	
10	-	-	3	SPARE	-	

TOTAL LOAD: 1530 KVA 1840 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPH-67	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 800A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: MLO	USAGE: ELEVATORS		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	400	250	3	SPARE	-	
2	400	250	3	SPARE	-	
4	400	225	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

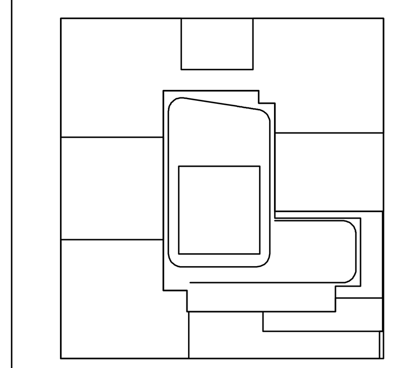
TOTAL LOAD: 0 KVA 0 AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION	PANEL DESIGNATION:	DPE-36	
MOUNTING: SURFACE			
SUPPLY CHARACTERISTICS:	VOLTS: 480	PHASE: 3φ	WIRES: 3+G
MAIN BUS RATING: 400A	NEUTRAL: FULL		
MAIN PROTECTIVE DEVICE: 250A	USAGE:		

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200A	200A	3	APE - 36	-	VIA 45kVA T/F
2	200A	200A	3	SPARE	-	
4	200A	200A	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	

TOTAL LOAD: 0 KVA 0 AMPS



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
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	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #1

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-401.00
DWG NO.
OF

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

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DEPT OF BLDGS 420655954 Job Number
ES121503572 Scan Code

FILE NAME: I:\15031 8_Outgoing\2017-10-12 update DOB set\electrical\150318E402 (LOE&LTL).dwg SAVED ON 9/13/2017 4:14 PM PLOTTED ON 10/12/2017 2:02 PM PLOTTED BY VALITE, VAN

LEGEND OF EQUIPMENT

SYMBOL	EQUIPMENT DESCRIPTION	ELECTRICAL RATING: KW	KVA	HP	EQUIPMENT AMPS	OUTLET AMPS	VOLTS	PHASE	WIRES	ELECTRICAL WORK NOTES REFERENCE SYMBOL (REFER TO WORK NOTES FOR LOE ITEMS)							
AA	VERTICAL HEAT PUMP UNIT "A"				5.4	15	208	1	3+G	1							
AB	VERTICAL HEAT PUMP UNIT "B"				6.6	15	208	1	3+G	1							
AC	VERTICAL HEAT PUMP UNIT "C"				7.6	15	208	1	3+G	1							
AD	VERTICAL HEAT PUMP UNIT "D"				11.2	15	120	1	3+G	1							
HT/100	ELECTRIC HEAT TRACING	0.008/ LF					120	1	3+G								
AV	EACH -- POWER SUPPLY FOR COMPACT WASHER					15	208	1	2+G								
AW	EACH -- POWER SUPPLY FOR COMPACT CONDENSATION DRYER	2.8				30	208	1	3+G								
BH	COOLING TOWER BASIN HEATER	14.0					460	3	3+G								
BO	COMMERICAL CLOTHES DRYER	8.0				40	208	2	4+G								
CT	COOLING TOWER FAN			40			460	3	3+G								
EUHA	ELECTRIC CEILING UNIT HEATER (EUH-A)	5.0					208	3	3+G								
EUHB	ELECTRIC HORIZONTAL UNIT HEATER (EUH-B)	5.0					208	3	3+G								
EUHC	ELECTRICHORIZONTAL UNIT HEATER (EUH-C)	3.0					208	3	3+G								
EIC	EACH -- POWER SUPPLY FOR INDIVIDUAL CONTROLLER					20	120	1	2	1	3	39					
EIN	EACH -- POWER SUPPLY FOR SIGNAL & INTERCOM PANEL					20	120	1	2	1	3	39					
EFT	ELECTRIC FIN TUBE	.15/lf				20	120	1	2	1	39	99	102				
EGC	EACH -- POWER SUPPLY FOR GROUP CONTROLLER				30		480	3	3	1							
ELP	EACH -- POWER SUPPLY FOR ELEVATOR LANTERN PANEL					20	120	1	2	1	3	39					
ETC	EACH -- POWER SUPPLY FOR ELEVATOR TRAIL CABLE					20	120	1	2	1	3	39					
FE8	FREIGHT ELEVATOR "FE-8"			60			480	3	3+G								
FE9	FREIGHT ELEVATOR "FE-9"			60			480	3	3+G								
FE10	FREIGHT ELEVATOR "FE-10"			50			480	3	3+G								
UHA	UNIT HEATER A (UH-A)			1/15			120	1	2+G								
UHB	UNIT HEATER B (UH-B)			1/10			120	1	2+G								
UHC	UNIT HEATER C (UH-C)			1/10			120	1	2+G								
CUH-1	CABINET UNIT HEATER (CUH-1)	0.125					120	1	2+G								
CH-1	CABINET UNIT HEATER 1 (CH-1-1, CH-1-2, CH-1-3, CH-1-4, CH-1-5)			1/10			120	1	2+G								
CH-2	CABINET UNIT HEATER HEATER 1 (CH-1-6 & CH-1-7)			1/15			120	1	2+G								
PE1	PASSENGER ELEVATOR "PE-1"			70			480	3	3+G								
PE2	PASSENGER ELEVATOR "PE-2"			70			480	3	3+G								
PE3	PASSENGER ELEVATOR "PE-3"			70			480	3	3+G								
PE5	PASSENGER ELEVATOR "PE-5"			80			480	3	3+G								
PE6	PASSENGER ELEVATOR "PE-6"			80			480	3	3+G								
PE7	PASSENGER ELEVATOR "PE-7"			80			480	3	3+G								
SE4	SERVICE ELEVATOR		10.2	100			480	3	3+G								
WH	WALL MOUNT HEATER "WH"				5.8		208	1	2+G								
EWH-1	INSTANTENOUS ELECTRIC WATER HEATER	24.0					460	3	3+G								
EWH-2	INSTANTENOUS ELECTRIC WATER HEATER	6.0					277	1	2+G								
SE-1	DUPLEX SEWAGE EJECTOR PUMPS			5			208	3	3+G								
SE-2	DUPLEX SEWAGE EJECTOR PUMPS			5			208	3	3+G								
SP-1	DUPLEX SUMP PUMPS			5			208	3	3+G								
SP-2	DUPLEX SUMP PUMPS			5			208	3	3+G								
DPT-1	DUPLEX DETENTION TANK PUMP			2			208	3	3+G								
HCP	HOT WATER CIRCLATION PUMP			1/2			208	1	2+G								
TFP-1	TRIPLEX TANK FILL FILL PUMP			60			460	3	3+G								
DWH-1	DOMESTIC WATER HEATER (PROVIDE TWO CIRCUITS ON EMERGENCY)				30		120	1	2+G								
DWH-2	DOMESTIC WATER HEATER (PROVIDE TWO CIRCUITS ON EMERGENCY)				30		120	1	2+G								
MV-1	ELECTRONICS MIXING VALVE (EMERGENCY CIRCUIT)				20		120	1	2+G								
TRP-1	ELECTRONICS TRAP PRIMER (EMERGENCY CIRCUIT)				20		120	1	2+G								
RTP-1	ROOF TANK POWER HEATER	18.0					460	3	3+G								
RTC-1	ROOF TANK CONTROLS				20		120	1	2+G								
EP-1	ELEVATOR SUMP PUMP			1			208	3	3+G								
FU-1	SAND FILTER (CONDENSER WATER)			2			208	3	3+G								
EPT-A	ELECTRICAL BASEBOARD HEATER	0.6					120	1	2+G								
VAV	VARIABLE AIR VOLUME				1		120	1	2+G								

ELECTRIC WORK NOTES

1. EXTEND INDICATED POWER CIRCUIT AND CONNECT SAME TO THE LINE TERMINALS OF THE EQUIPMENT--THE FINAL PORTION (NOT TO EXCEED 48" IN LENGTH) SHALL BE WITH FLEXIBLE METALLIC CONDUIT.

3. PROVIDE SUITABLE PLATE ON OUTLET BOX--PROVIDE "SOLID" POWER CIRCUIT CONNECTION TO EQUIPMENT CONSISTING OF FLEXIBLE METALLIC CONDUIT CONTAINING WIRES OF SIZE AND TYPE EQUAL TO THOSE SUPPLYING THE OUTLET--NUMBER OF WIRES SHALL BE AS REQUIRED FOR THE EQUIPMENT (FOR FLUSH OUTLET BOX, PROVIDE EXTENSION COLLAR TO ALLOW FOR SIDE ENTRY OF CONNECTION).

4. CONNECT LEADS OF EQUIPMENT LOCATED AT OUTLET BOX DIRECTLY TO WIRES IN SAME.

5. LEAVE SUITABLE SLACK ON WIRES FOR POWER CIRCUIT CONNECTION SEPARATE FROM THE ELECTRIC WORK.

7. PROVIDE POWER CIRCUIT WORK WITHIN EQUIPMENT AS DIRECTED.

9. PROVIDE POWER CIRCUIT WIRING BETWEEN THE VARIOUS COMPONENTS OF THE EQUIPMENT AS DIRECTED.

11. PROVIDE CONTROL WIRES WITHIN EQUIPMENT HOUSING AS DIRECTED TO CONNECT UP CONTROL DEVICES.

14. INSTALL CONTROL DEVICES FURNISHED SEPARATE FROM ELECTRIC WORK AND PROVIDE CONTROL WIRING BETWEEN SAME AS DIRECTED.

24. PROVIDE 8.0 WATTS PER LINEAR FOOT (OUTPUT RATING) PIPE HEATER STRIP AS PER DETAIL, OF LENGTH AS NOTED ON PLANS WITHIN EQUIPMENT DESIGNATION SYMBOL.

33. EXTEND INDICATED POWER CIRCUIT AND CONNECT SAME TO THE LINE TERMINALS OF THE EQUIPMENT.

39. PROVIDE DISCONNECT MEANS WITH CONNECTIONS AS REQUIRED TO INTERPOSE SAME BETWEEN TERMINATION OF BUILDING WIRING AND LINE TERMINALS OF UNIT--TYPE OF DISCONNECT MEANS AND MOUNTING LOCATION TO BE IN ACCORDANCE WITH INSTRUCTIONS ISSUED BY THE MANUFACTURER OF THE UNIT.

70. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL RECESSED IN WALL RESIDENTIAL FAN-FORCED ZONAL ELECTRIC HEATER 750W, 120V - BY BROAN MODEL 174 WITH ALL RELATED MOUNTING ACCESSORIES, BACK BOX AND 86W THERMOSTAT KIT (40-85°F) WITH POSITIVE OFF, OR EQUAL APPROVED. PRIOR TO INSTALLATION VERIFY EXACT LOCATION WITH ARCHITECT.

71. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL RECESSED IN TOE SPACE RESIDENTIAL FAN-FORCED ZONAL ELECTRIC TOE HEATER 1500W, 120V - BY BRASCH MODEL #112 WITH ALL RELATED MOUNTING ACCESSORIES, BACK BOX AND BUILT-IN THERMOSTAT (40-85°F) WITH POSITIVE OFF, OR EQUAL APPROVED. PRIOR TO INSTALLATION VERIFY EXACT LOCATION WITH ARCHITECT.

99. EQUIPMENT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH BUILT-IN THERMOSTATS AND BLANK SECTIONS AS REQUIRED. LENGTHS AS PER MECHANICAL DRAWINGS. MORE THAN (1) 20A-1P CIRCUIT MAY BE REQUIRED AT EACH WIRING POINT.

102. COORDINATE LOCATION OF STUB UP WITH HVAC, FURNISH AND INSTALL ADEQUATELY SIZED HP RATED TOGGLE SWITCH BEHIND ACCESS PANEL IN UNIT HOUSING. EXTEND INDICATED POWER CIRCUIT (USING FLEXIBLE METALLIC CONDUIT) TO SWITCH, AND CONTINUE FROM SWITCH TO LINE TERMINALS OF UNIT.

103. FOR EACH HEAT TRACING CIRCUIT PROVIDE 1P, 20A, GFI 30mA INTERRUPTING RATING CIRCUIT BREAKER.

106. COORDINATE OUTLET NEMA CONFIGURATION WITH MANUFACTURER SPECIFICATIONS PRIOR EQUIPMENT ORDERING.

BACK-OF-HOUSE LIGHTING FIXTURE LIST

FIXTURE TYPE DESIGNATION	FIXTURE DESCRIPTION	FIXTURE MANUFACTURERS & CATALOG NUMBERS (CATALOG NUMBERS MAY REQUIRE ADJUSTMENT TO CONFORM FIXTURE TO CEILING FINAL CONSTRUCTION)	LAMPS: QUANTITY PER FIXTURE	LAMPS: DESIGNATION (LAMP MANUFACTURERS STANDARD ABBREVIATION)	FIXTURE INPUT: VOLTS	FIXTURE INPUT: VOLT AMPS	REMARKS
A	4' SURFACE OR PENDANT MOUNTED FLUORESCENT INDUSTRIAL FIXTURE WITH WHITE BAKED ENAMEL REFLECTOR. REFLECTOR ALLOWS 10%-20% UPLIGHT.	DAYBRITE N1F232-PP-1/2-EB-120; COLUMBIA KL-4-232-EB8-120-NY-20GA; METALUX DIM-232-120-EB81-20GA-REP; CROWNLITE 100-232-73.	2	F032/835 ECO.	120	70	
D	VAPORTIGHT INCANDESCENT JAR LIGHT. WALL OR CEILING-MOUNTED, AS INDICATED ON DRAWINGS. UL WET LOCATION LISTED.	WALL-MOUNT: CANLET GIWF-151-G-GHC; RIG-A-LITE CVPH-15I-12-HR-GW; HUBBELL VWX151VCG15. CEILING-MOUNT: CANLET GICF-151-G-GHC; RIG-A-LITE CVPH-15I-12-HR-GC; HUBBELL VX151VCG15.	1	100W A21, IF	120	150	
E	EXPLOSION-PROOF INCANDESCENT JAR LIGHT. WALL OR CEILING-MOUNTED, AS INDICATED ON DRAWINGS. UL WET LOCATION LISTED, AND UL 844 HAZARDOUS LOCATIONS LISTED FOR CLASS 1, DIVISION 2, GROUPS A, B, C, D.	WALL-MOUNT: CANLET GIWF-151-G-GHC; RIG-A-LITE CVPH-15I-12-HR-GW; HUBBELL VWX151VCG15. CEILING-MOUNT: CANLET GICF-151-G-GHC; RIG-A-LITE CVPH-15I-12-HR-GC; HUBBELL VX151VCG15.	1	100W A21, IF	120	150	
XA	CEILING-MOUNTED, SINGLE-FACE EXIT SIGN. DIE-CAST ALUMINUM HOUSING CANOPY-MOUNTED TO CEILING. SATIN ALUMINUM STENCIL FACE WITH DIFFUSER BEHIND. ELECTRONICS FOR LED'S CONTAINED WITHIN HOUSING. 8" LETTERS PER NYC	ATLITE AUXA BRUSHED ALUM. MODIFY CATALOGUE NUMBER AS REQUIRED FOR CIRCUITED VOLTAGE.	N/A	RED LED	120/ 277	0.9	CONFIGURE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.
O	4' SURFACE OR PENDANT MOUNTED FLUORESCENT INDUSTRIAL FIXTURE WITH WHITE BAKED ENAMEL REFLECTOR. REFLECTOR ALLOWS 10%-20% UPLIGHT.	DAYBRITE N1F232-PP-1/2-EB-120; COLUMBIA KL-4-232-EB8-120-NY-20GA; METALUX DIM-232-120-EB81-20GA-REP; CROWNLITE 100-232-73.	2	F032/835 ECO.	120	70	

NOTES:

1. ALL 48" LONG FLUORESCENT LAMPS SHALL BE TCLP-COMPLIANT.
2. UNLESS OTHERWISE NOTED, SOLID STATE ELECTRONIC BALLASTS ARE REQUIRED FOR ALL FLUORESCENT AND COMPACT FLUORESCENT FIXTURES.
3. BALLASTS FOR LINEAR FLUORESCENT AND FT40W 2G11-BASE LAMPS SHALL OPERATE LAMPS IN PARALLEL, IN INSTANT-START MODE. USE 3-LAMP AND 4-LAMP BALLASTS WHEREVER POSSIBLE. BALLASTS FOR LINEAR FLUORESCENT AND FT40W 2G11-BASE LAMPS SHALL BE ONE OF THE FOLLOWING: MAGNETEK "TRIAD", OSI "QUICKTRONIC", ADVANCE "STANDARD", OR ESI "HIGH PERFORMANCE INSTANT START."
4. ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING: ESI, MAGNETEK, ADVANCE, OR ROBERTS.

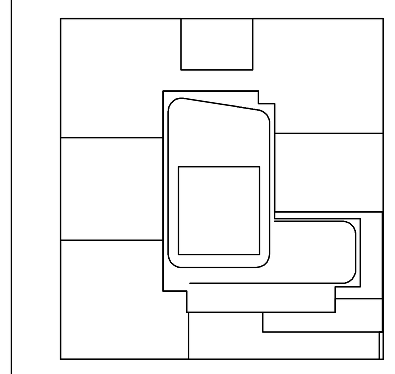
SEE LIGHTING CONSULTANT'S SPECIFICATIONS FOR ALL OTHER LIGHTING FIXTURE INFORMATION

SCHEDULE OF NON-STANDARD WIRING DEVICES --- RECEPTACLES (if applicable)

SYMBOL: WALL MTD.	SYMBOL: FLOOR MTD.	SYMBOL: CEILING MTD.	DESCRIPTION: USE ("SPP"SPECIAL PURPOSED "NSC"+NON-STANDARD CONVENIENCE)	DESCRIPTION: TYPE ("EP"=EXPLOSION PROOF "WTG"=WATERTIGHT "GFI"=GROUND FAULT INTERUPT TYPE "LOS"=LOCKINK SLOT "REG"=REGULAR SLOT "WP"=WEATHER PROOF)	CIRCUIT RATING: VOLTS	PHASE	WIRES	AMPS	MFR ("AHH"= ARROW HART AND HEGEMAN "HUB"= HUBBELL "LEV"= LEVITON)	CAT No	INCLUDED IN CAT. No ("F"=FLUSH "S"=SURFACE): PLATE	BOX	IDENTIFICATION / REMARKS	NUMBER OF WIRES
A			SPP	REG	120/208	1	3+G	20	HUB	NEMA 14-20R	F	F	MICROWAVE COMBI OVEN	3#12+1#12G IN 3/4"C
B			SPP	REG	120/208	1	3+G	30	HUB	NEMA 14-30R	F	F	SINGLE OVEN	3#10+1#10G IN 3/4"C
B1			SPP	REG	120/208	1	3+G	40	HUB	NEMA 14-50R	F	F	ELECTRIC DOUBLE OVEN	3#6+1#10G IN 3/4"C
B2			SPP	REG	208	1	2+G	20	HUB	NEMA 6-20R	F	F	INDUCTION COOKTOP/STEAM OVEN & ELECTRIC GRILL	2#12+1#12G IN 3/4"C
C			SPP	REG	120/208	1	3+G	30	HUB	NEMA 14-30R	F	F	ELECTRIC WASHER/DRYER COMBO	3#10+1#10G IN 3/4"C
D			SPP	REG	120/250	1	3	30	HUB	NEMA 14-30R	F	F	CONDENSING DRYER RECEPTACLE	3#10+1#10G IN 3/4"C
⏀			SPP	REG	208	1	3	15	HUB	NEMA 6-15R	F	F	WASHER IN EACH APARTMENT	3#12+1#12G IN 3/4"C
⏀			SPP	REG	125	1	3	20	HUB	NEMA 5-20R	F	F	LAUNDRY RECEPTACLE	3#12+1#12G IN 3/4"C
F			SPP	REG	120	1	3	20	HUB	NEMA 5-20R	F	F	COMMERCIAL LAUNDRY RECEPTACLE	3#12+1#12G IN 3/4"C
G			SPP	REG	208	1	2+G	30	HUB	6-30R	F	F	COMMERCIAL ELECTRIC DRYER	2#10+1#10G IN 3/4"C
H			SPP	LOS	120	1	3	30 OR 20	HUB	NEMA L5-30R OR NEMA L5-20R	–	–	TELECOM/SECURITY RECEPTACLE TWIST-LOCK TYPE	2#10+1#10G IN 3/4"C
	I		SPP	REG	120/208	1	4	20	HUB	NEMA 14-20R	–	–	GYM EQUIPMENT	3#12+1#12G IN 3/4"C
J			SPP	LOS, WTG	120/208	3	4	30	HUB	NEMA L15-30R	–	–	WINDOW WASHING RECEPT. #2720 S/W TWIST-LOCK TYPE	3#10+1#10G IN 3/4"C
K			SPP	REG	208	1	2+G	50	HUB	NEMA 6-50R	F	F	INDUCTION COOKTOP	2#6+1#10G IN 3/4"C
L			SPP	LOS	208	1	3	30	HUB	NEMA L6-30R	–	–	TELECOM/SECURITY RECEPTACLE	2#10+1#10G IN 3/4"C

(Floor MTD. for symbol I: YES)

NOTE: ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING IN FIELD ALL RECEPTACLES WITH PLUGS OF EQUIPMENT.



KEY PLAN

NOTES:

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	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
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	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #2

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-402.00
DWG NO.
OF

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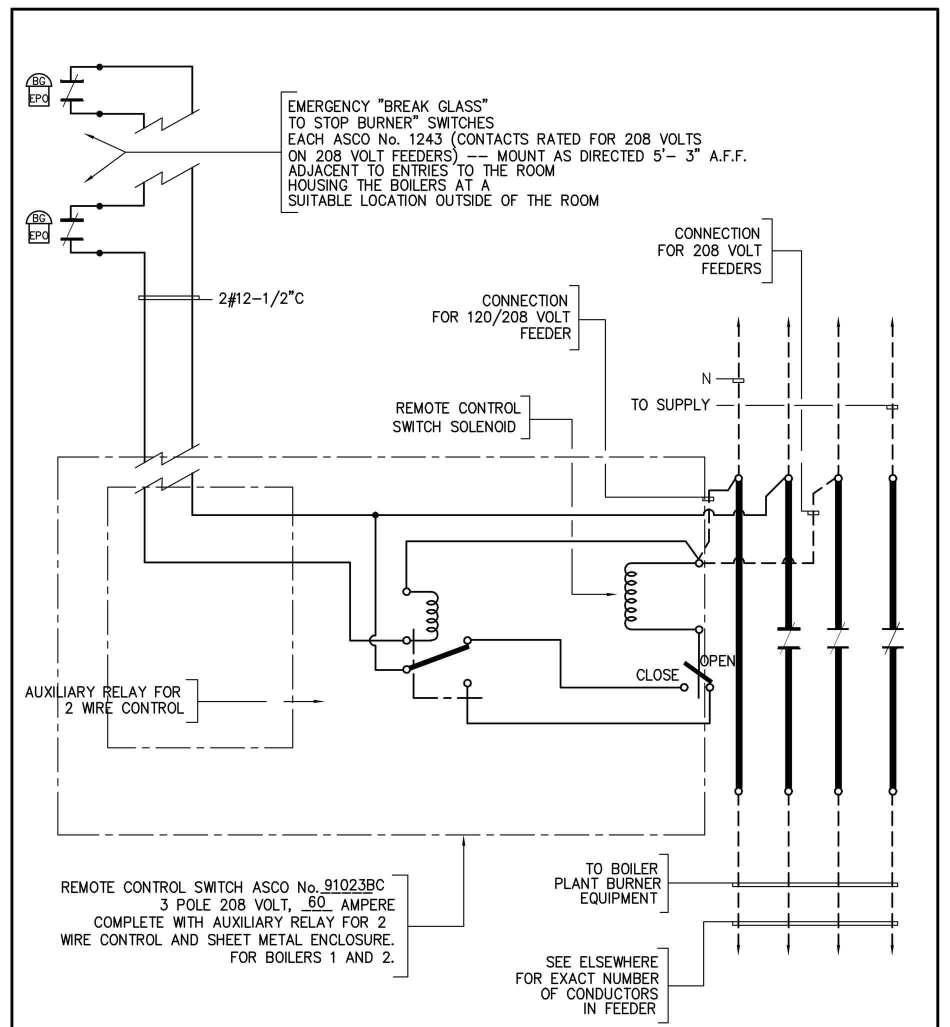
DEPT OF BLDGS 420655954 Job Number
ES940005402 Scan Code

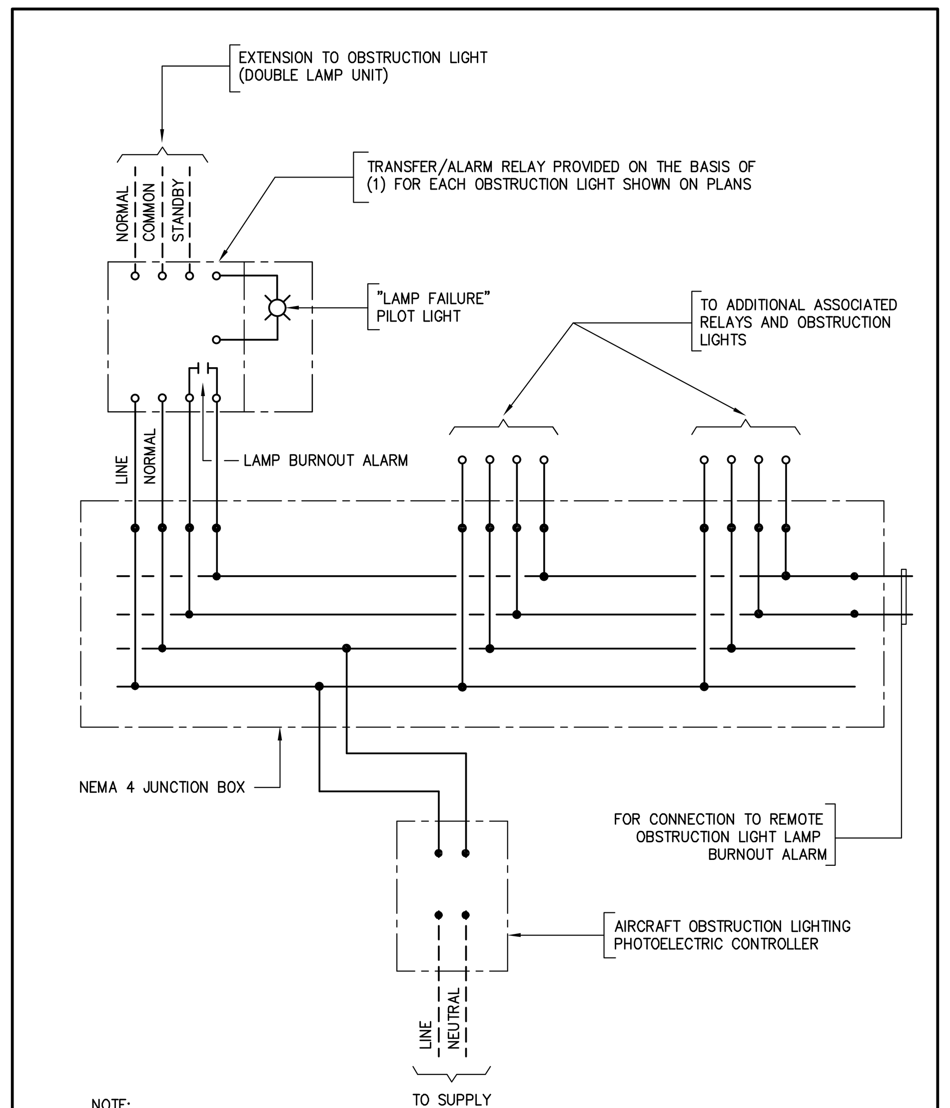


NOTES:

1. LOCATION FOR SWITCH INDICATED ON PLANS DENOTES LOCATION OF THE REMOTE CONTROL SWITCH.
2. VOLTAGE RATINGS OF REMOTE CONTROL SWITCH SOLENOID AND AUXILIARY RELAY COIL TO BE 120 VOLTS ON 208/120 VOLT FEEDERS.
3. ALL CONTACTS SHOWN WITH BREAK GLASS SWITCHES INTACT.

DETAIL FOR BOILER PLANT BURNER EQUIPMENT SUPPLY SWITCH

DETAIL I



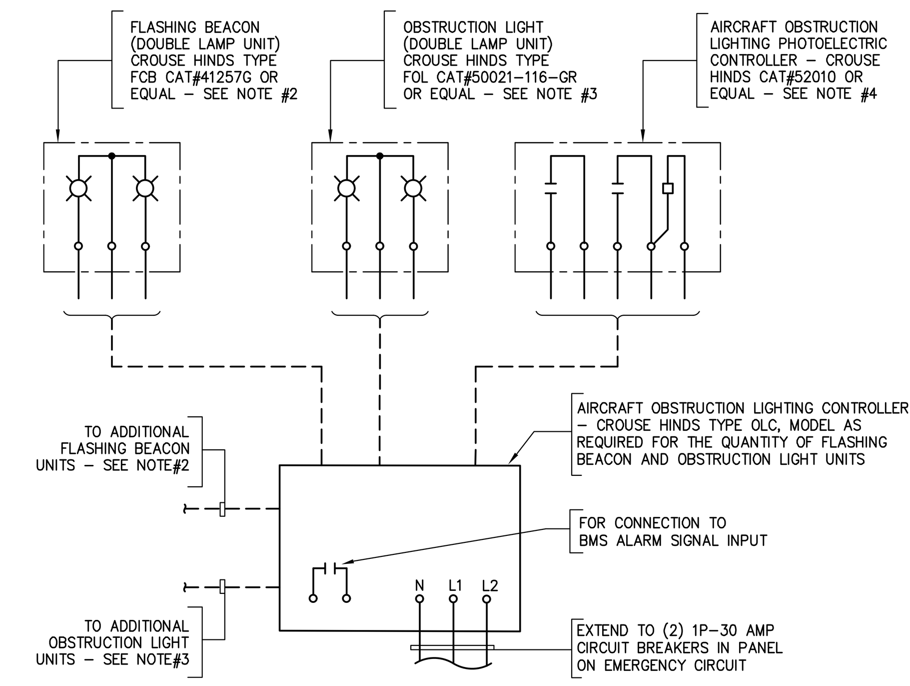
NOTE:

1. FOR EACH PHOTOELECTRIC CONTROLLER SHOWN ON THE PLAN DRAWINGS AND REFERRED TO THIS DETAIL, PROVIDE A COMPLETE INSTALLATION AS INDICATED. MINIMUM OF ONE COMPLETE INSTALLATION REQUIRED FOR PROJECT.

DETAIL FOR AIRCRAFT OBSTRUCTION LIGHTING CONTROL EQUIPMENT

NOT TO SCALE

DETAIL II



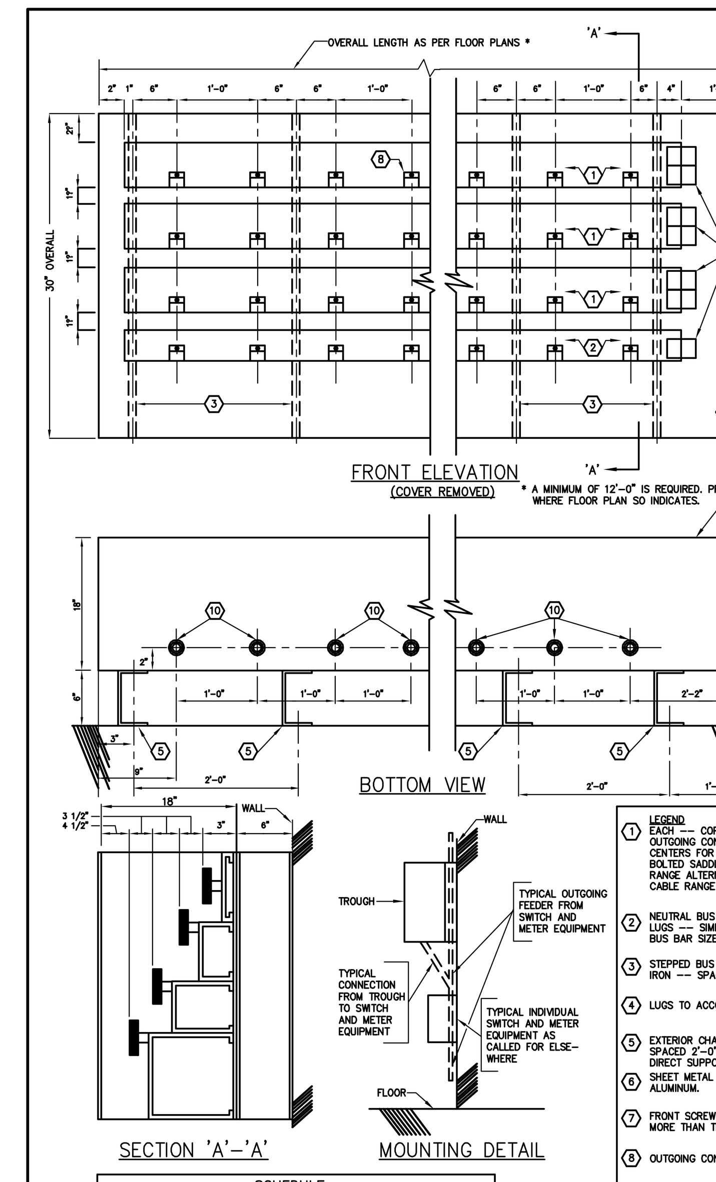
NOTE:

1. FOR EACH PHOTOELECTRIC CONTROLLER SHOWN ON THE PLAN DRAWINGS AND REFERRED TO THIS DETAIL, PROVIDE A COMPLETE INSTALLATION AS INDICATED. PROVIDE A MINIMUM OF ONE COMPLETE INSTALLATION REQUIRED FOR THE PROJECT.
2. PROVIDE FLASHING BEACON LIGHTS OF QUANTITY AND AT LOCATIONS AS REQUIRED BY FAA OFFICE HAVING JURISDICTION.
3. PROVIDE OBSTRUCTION LIGHTS OF QUANTITY AND AT LOCATIONS AS REQUIRED BY FAA OFFICE HAVING JURISDICTION.
4. PROVIDE PHOTOELECTRIC CONTROLLER LOCATED WITH AN UNOBSTRUCTED VIEW OF THE NORTH SKY.
5. PROVIDE CIRCUITRY AS SPECIFIED FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY. QUANTITY AND SIZE OF CONDUCTORS SHALL BE AS RECOMMENDED BY SYSTEM MANUFACTURER.
6. CONTROLLER SHALL MONITOR EACH LAMP AND INCLUDE A SINGLE SET OF DRY CONTACTS ARRANGED TO CLOSE ON ANY LAMP FAILURE, FOR CONNECTION TO BMS.

DETAIL FOR AIRCRAFT OBSTRUCTION LIGHTING SYSTEM

NOT TO SCALE

DETAIL III



LEGEND

1. EACH -- COPPER PHASE LEG BUS BAR FITTED WITH OUTGOING CONNECTION CABLE LUGS 1'-0" ON CENTERS FOR ENTIRE LENGTH -- LUGS TO BE BOLTED SADDLE TYPE -- 1/0 TO 300 MCM CABLE RANGE ALTERNATED WITH 300 MCM TO 500 MCM CABLE RANGE -- SEE SCHEDULE FOR BUS BAR SIZE.
2. NEUTRAL BUS BAR OUTGOING CONNECTION CABLE LUGS -- SIMILAR TO PHASE LEG BARS EXCEPT FOR BUS BAR SIZE -- SEE SCHEDULE.
3. STEPPED BUS BAR SUPPORTS FABRICATED OF FLAT IRON -- SPACED 2'-0" ON CENTERS.
4. LUGS TO ACCOMMODATE INCOMING FEEDER.
5. EXTERIOR CHANNEL IRON MOUNTINGS FOR TROUGH. SPACED 2'-0" ON CENTERS AND ARRANGED FOR DIRECT SUPPORT OF INTERIOR BUS SUPPORTS.
6. SHEET METAL ENCLOSURE -- 1/8" THICK SHEET ALUMINUM.
7. FRONT SCREW COVER IN REMOVABLE SECTIONS NOT MORE THAN THREE FEET LONG.
8. OUTGOING CONNECTION CABLE LUG (TYPICAL).
9. INSULATOR (TYPICAL).
10. KNOCKOUTS FOR OUTGOING CONDUIT CONNECTIONS IN ENCLOSURE SPACED 1'-0" ON CENTERS -- 1 1/4", 1 1/2", 2" COMBINATION LINED UP WITH 1/0 TO 300 MCM OUTGOING CABLE LUGS -- 2 1/2", 3", 3 1/2" COMBINATION LINED UP WITH 300 MCM TO 500 MCM CABLE LUGS.

NOTES:

1. A COMPLETE ASSEMBLY AS DETAILED HEREIN IS REQUIRED FOR EACH WIRING TROUGH INDICATION REFERRED TO THIS NOTE.
2. OUTGOING CONNECTIONS FROM THE TROUGH UP TO THE INDIVIDUAL SWITCHES AND METER EQUIPMENTS SHALL BE OF COPPER ONLY.

SCHEDULE

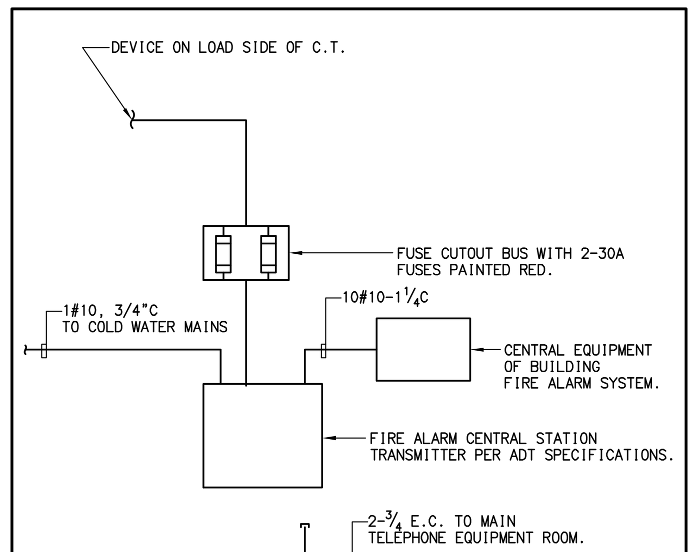
TROUGH DESIGNATION	SIZE OF EACH PHASE LEG BAR (**)	SIZE OF NEUTRAL BAR (**)
RETAIL	1/2"D x 4"W x 24'L	1/2"D x 4"W x 24'L

(**)BUS BAR SIZED AT 1000 AMPS/SQ.IN

DETAIL OF WIRING TROUGHS FOR CONNECTION OF SEPARATELY METERED FEEDERS

NOT TO SCALE

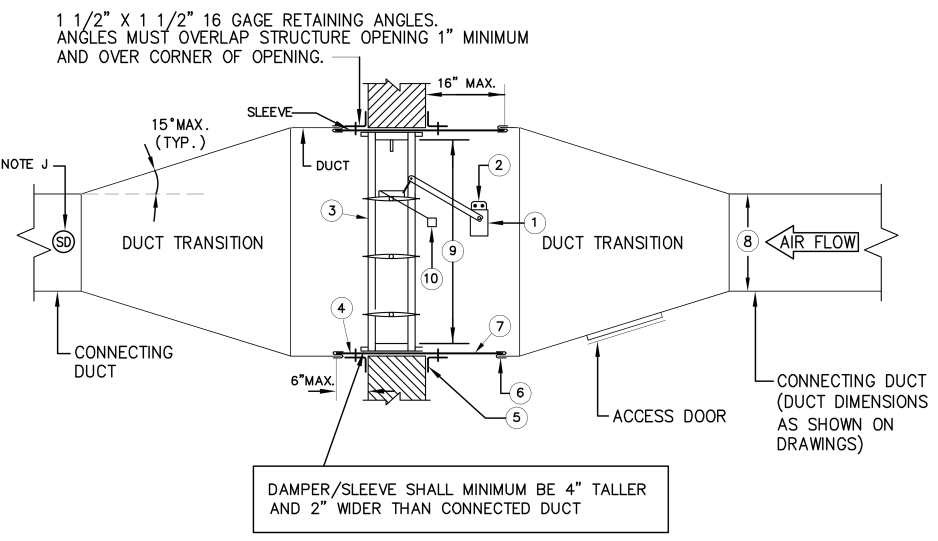
DETAIL IV



DETAIL FOR CENTRAL STATION REQUIREMENTS

NOT TO SCALE

DETAIL V



ELEVATION

ITEM	DESCRIPTION	ITEM	DESCRIPTION
1.	OPERATOR/ACTUATOR (MOUNTED OUTSIDE OF AIR STREAM)	6.	UL LISTED BREAKAWAY CONNECTION
2.	HEAT RESPONSIVE DEVICE (PRIMARY AND SECONDARY)	7.	CAULKING MATERIAL
3.	DAMPER FRAME	8.	CONNECTING DUCT OPEN AREA
4.	SLEEVE	9.	DAMPER CLEAR OPEN AREA
5.	MOUNTING ANGLES	10.	DAMPER END SWITCH

NOTES:

A. COMBINATION FIRE AND SMOKE RATED DAMPERS ARE DESIGNED TO OPERATE WITH BLADES RUNNING HORIZONTALLY AND MUST BE INSTALLED WITHIN THE FIRE WALL DUCT OPENING.
B. DAMPERS SHALL BE INSTALLED PER THE CONDITION OF THEIR UL LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTION.
C. DAMPER SHALL BE IN ACCORDANCE , UL 555S (LATEST EDITION) AND ALL REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION AND SHALL HAVE UL LABEL.
D. DAMPER ACTUATOR SHALL BE UL RATED FOR 350°F DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" BEYOND THE FIRE WALL OR PARTITION AND NOT MORE THAN 16" ON THE OPERATOR/ACTUATOR SIDE.
E. CONTRACTOR SHALL SUBMIT STATIC PRESSURE LOSS THRU DAMPER AT OPERATING DUCT VELOCITIES.
F. PROVIDE ACCESS DOORS AS PER CODE AND SPECIFICATIONS.
G. THE MAXIMUM SINGLE DAMPER ASSEMBLY WHETHER SINGLE OR MULTI-SECTION MAY NOT EXCEED THE LIMIT AS CERTIFIED BY UL. WHERE MULTIPLE ASSEMBLIES ARE REQUIRED PROVIDE AN APPROVED MULLIONS (FOR MASONRY WALL APPLICATION ONLY)
H. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
I. PROVIDE PRIMARY HEAT RESPONSIVE DEVICE. FOR SMOKE MANAGEMENT SYSTEM, PROVIDE PRIMARY AND SECONDARY HEAT RESPONSIVE DEVICES.
J. PROVIDE SMOKE DETECTOR WITHIN 5' OF FSM. WHERE NON DUCTED, PROVIDE SPOT TYPE DETECTOR WITHIN 5'. COORDINATE WIRING OF DEVICES WITH FIRE ALARM CONTRACTOR.

CONTROLS

A. NON SMOKE MANAGEMENT SYSTEM
WHERE F/SM DAMPERS ARE PART OF A FLOOR-BY-FLOOR AIR HANDLING OR FAN SYSTEM, DAMPERS SHALL BE INTERLOCKED WITH AIR HANDLING UNIT OPERATION. EACH DAMPER SHALL BE PROVIDED WITH END SWITCHES WHICH SHALL BE HARD WIRED AND STATUS CONFIRMED PRIOR TO MOTOR START OF AIR HANDLING UNIT.
WHERE F/SM DAMPERS ARE PART OF A CENTRAL AIR HANDLING OR FAN SYSTEM, DAMPER SHALL BE INTERLOCKED WITH AIR HANDLING UNIT OPERATION. EACH DAMPER SHALL BE PROVIDED WITH END SWITCHES WHICH SHALL BE HARD WIRED AND STATUS CONFIRMED PRIOR TO MOTOR START OF AIR HANDLING UNIT.
REFER TO SPECIFICATIONS FOR ADDITIONAL SYSTEM SEQUENCES.

B. SMOKE MANAGEMENT
SAME AS ABOVE EXCEPT PROVIDE OVERRIDE CONTROL OF DAMPER THRU CENTRAL SMOKE MANAGEMENT OR FIRE ALARM SYSTEM, INCLUDE OVERRIDE OF LOW TEMPERATURE HEAT SENSOR FOR REOPENING DAMPER.
REFER TO SPECIFICATIONS FOR ADDITIONAL SYSTEM SEQUENCES.

FIRE/SMOKE DAMPER INSTALLATION DETAIL VI

SYMBOL	DESCRIPTION	NOTES
W OS	WALL BOX TYPE COMBINATION OCCUPANCY SENSOR AND SWITCH. LINE OF SIGHT COVERAGE OF 300 SQUARE FEET MINIMUM. DEVICE SHALL HAVE SELECTABLE MANUAL-ON AND AUTO-ON MODES. DEVICE SHALL BE SELF-ADJUSTING, RATED FOR LINE-VOLTAGE SWITCHING OF 800VA LOAD.	
C OS	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. SENSOR SHALL PROVIDE LINE OF SIGHT COVERAGE OF 1,000 SQUARE FEET MINIMUM. SENSOR SHALL BE SELF-ADJUSTING. WHERE LIGHTING LOAD EXCEEDS THE SWITCHING CAPACITY OF THE SENSOR, PROVIDE POWER PACKS AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS. EACH POWER PACK SHALL BE SUITABLE FOR SWITCHING LINE-VOLTAGE 20A LOAD.	WHERE MULTIPLE SENSORS ARE LOCATED IN A SPACE, CONNECT ALL SENSORS IN THE SPACE TO THE ASSOCIATED POWER PACKS. PROVIDE INTERCONNECTING CIRCUITRY PER MANUFACTURER'S REQUIREMENTS. MOUNT SENSOR A MINIMUM OF 4 FEET FROM AIR SUPPLY REGISTERS. WHERE LOCATED IN A CORRIDOR, PROVIDE SENSOR WITH APPROPRIATE COVERAGE PATTERN.
C VS	CEILING MOUNT DUAL TECHNOLOGY VACANCY SENSOR. USED IN COMBINATION WITH WALL MOUNTED TOGGLE SWITCH. SENSOR DETECTS ROOM VACANCY AND TURNS OFF LIGHTS AFTER SET PERIOD OF TIME. SAME SPECIFICATIONS AS OCCUPANCY SENSOR.	
C KS	CEILING MOUNT KENALL SMARTSENSE SENSOR. SENSOR SWITCHES LIGHTS TO 100% WHEN AREA IS OCCUPIED AND TO 30% WHEN AREA IS UNOCCUPIED. SENSOR SHALL PROVIDE LINE OF SIGHT COVERAGE OF 25 FOOT RADIUS. DEVICE TO BE CONNECTED TO KENALL SMARTSENSE LIGHTING CONTROL MODULE.	LIGHTING CONTROL MODULE LIMITED TO 6 SENSORS AND 32 LIGHTING FIXTURES PER MODULE. MODULES MAY BE CONNECTED TOGETHER TO SERVE MORE LIGHTING FIXTURES AND RECEIVE INPUT FROM MORE SENSORS.

NOTES:

1. EQUIPMENT SHALL BE MANUFACTURED BY WATTSTOPPER, NOVITAS, HUBBELL, LEVITON.
2. LOWER CASE LETTER ADJACENT TO SYMBOL INDICATES CONTROL ZONE.
3. OCCUPANCY SENSING DEVICES SHALL DETECT OCCUPANCY BY UTILIZING EITHER PASSIVE INFRARED OR ULTRASONIC DETECTION TECHNOLOGY, OR A COMBINATION OF THE TWO (DUAL-TECHNOLOGY).
4. EQUIPMENT SHALL BE UL LISTED FOR OPERATION AT THE VOLTAGE OF THE LIGHTING CIRCUITS, AND AT THE AMPACITY REQUIRED FOR THE LOAD.
5. SWITCHING MECHANISM SHALL BE A LATCHING AIR GAP RELAY, COMPATIBLE WITH INCANDESCENT LAMPS, INDUCTIVE LOADS, MAGNETIC BALLASTS, AND ELECTRONIC BALLASTS WITH HIGH INRUSH CURRENT. SWITCHING DEVICES SHALL HAVE NO MINIMUM LOAD REQUIREMENT AND NO CURRENT LEAKAGE TO LOAD.
6. POWER PACKS SHALL BE SUITABLE FOR MOUNTING IN ACCESSIBLE CEILING PLENUMS.
7. PROVIDE NEUTRAL AND GROUNDING CONDUCTORS TO THE EQUIPMENT AS REQUIRED FOR OPERATION PER THE MANUFACTURER'S REQUIREMENTS.
8. EXACT LOCATION OF EACH SENSOR SHALL BE COORDINATED BY THE CONTRACTOR FOR OPTIMUM COVERAGE OF THE SPACE. CONTRACTOR SHALL PROVIDE FIELD-OF-VIEW TEMPLATES AS REQUIRED TO MASK THE VIEWING LENS TO MINIMIZE FALSE TRIGGERING.
9. CONTROL CIRCUITRY SHALL BE #18 AWG MINIMUM, OR LARGER PER MANUFACTURER'S RECOMMENDATIONS. CONTROL CIRCUITRY SHALL BE RUN IN CONDUIT EXCEPT THAT CONDUIT MAY BE OMITTED WHERE CIRCUITRY IS RUN CONCEALED IN THE VOIDS OF READILY REMOVABLE HUNG CEILINGS AND WHERE CONCEALED IN VOIDS OF HOLLOW PARTITIONS - ONLY WHERE ALLOWED BY THE APPLICABLE CODES. RACEWAY SHALL BE AS SPECIFIED FOR LIGHT AND POWER CIRCUITRY. WHERE CABLES ARE RUN WITHOUT CONDUIT, CABLE INSULATION SHALL BE OF A FLUOROPOLYMER JACKETED, UL LISTED TYPE, SUITABLE FOR RUNNING IN AIR HANDLING PLENUMS IN ACCORDANCE WITH REQUIREMENTS OF ARTICLE 725 OF THE NATIONAL ELECTRICAL CODE. THIS CLASSIFICATION SHALL BE CLEARLY MARKED ON THE OUTER SURFACE OF THE CABLE AT REGULAR INTERVALS.
10. OCCUPANCY/VACANCY SENSORS SHALL BE SELF-ADJUSTING TYPE. ADJUST SENSORS TO SUIT USER REQUIREMENTS FOR A PERIOD OF 60 DAYS AFTER OCCUPANCY.
11. INSTALL MULTIPLE DEVICES (OCCUPANCY /VACANCY SENSORS, MANUAL CONTROL SWITCHES, CONVENTIONAL SWITCHES, AND DIMMERS) SHOWN AT A SINGLE LOCATION IN MULTI-GANG OUTLET BOXES AND PROVIDE MULTI-GANG FACE PLATES. CONVENTIONAL SWITCHES AT THESE LOCATIONS SHALL BE ROCKER STYLE.
12. WHERE SENSOR COVERAGE IS NOT COMPLETE IN BACK-OF-HOUSE SPACES, PROVIDE TIMER SWITCHES FOR THOSE FIXTURES. ALL SENSORS SHOULD FAIL IN THE 'ON' POSITION.

OCCUPANCY/VACANCY SENSOR DETAIL

DETAIL IX

PROVIDE PIPE HEATER STRIP OF REQUIRED LENGTH, WITH ALL APPURTENANCES, AND IN ACCORDANCE WITH THE FOLLOWING:

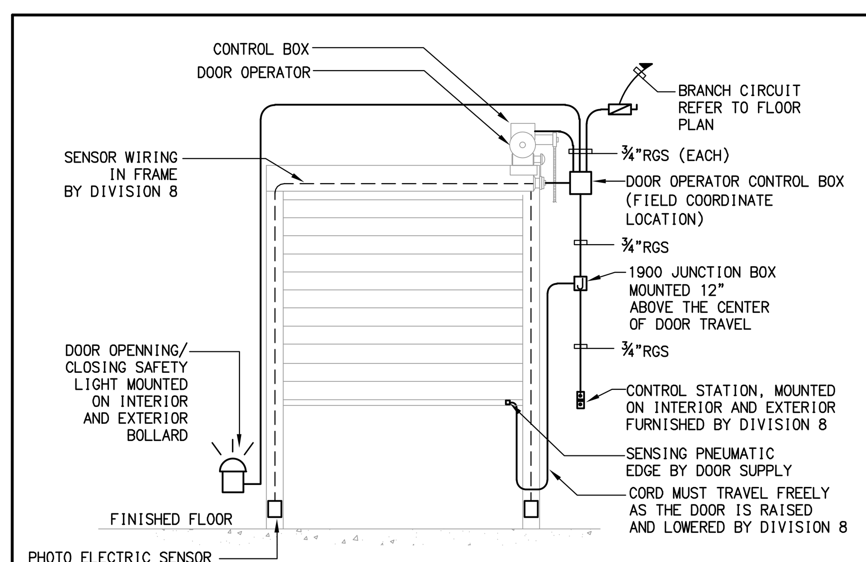
a) BASED ON THE INDICATED OUTPUT, SELECT HEATER STRIP AND AUXILIARY COMPONENTS FOR SAME FROM THE TABLE BELOW:-

ELECTRIC OUTPUT (AT 50°F)	CIRCUIT BREAKER SIZE (STARTED AT 50°F)	RATED VOLTAGE	MAXIMUM SAFE TEMPERATURE	MAXIMUM SAFE LENGTH	IDENTIFICATION OF APPROVED COMPONENTS			
					HEATER STRIP	END SEAL	SPLICE OR TEE KIT	POWER CONNECTION KIT
WATTS/FT	AMPS/FT	VOLTS	°F	FEET	RAYCHEM "XL-TRACE" CATALOG NUMBERS			
5	.07	120	150	250	5XL1-CR	FTC-E	FTC-HST	FTC-P
8	.10	120	150	190	8XL1-CR	FTC-E	FTC-HST	FTC-P

b) INSTALL HEATER STRIP AS A SINGLE RUN (OR MULTIPLE PARALLEL RUNS WHERE CABLE FOOTAGE SO REQUIRES) ALONG WATER PIPING BEFORE INSULATION IS APPLIED TO SAME.
c) FASTEN HEATER STRIP TO PIPING WITH GLASS ADHESIVE TAPE (RAYCHEM CAT. NO. "GT-66") APPLIED AT INTERVALS NOT EXCEEDING 1' ON CENTERS AND IN ALL CASES AS REQUIRED TO MAINTAIN THE HEATER STRIP IN CONTINUOUS CONTACT WITH THE METAL OF THE WATER PIPING.
d) DO NOT CONNECT THE BUS WIRES TOGETHER; XL-TRACE IS A PARALLEL CIRCUITED HEATER STRIP.
e) FURNISH AND INSTALL ON THE OUTLET BOX FROM WHICH THE HEATER IS SUPPLIED, A 120 VOLT, 22 AMP, SINGLE POLE, DOUBLE THROW, 25-225°F, AMBIENT TYPE THERMOSTAT (RAYCHEM CAT. NO. "AMC-1A") IN NEMA TYPE 4 WATERTIGHT ENCLOSURE.
f) CONNECT INCOMING CIRCUIT THROUGH THERMOSTAT TO HEATER STRIP.
g) UTILIZE 1/2" FLEXIBLE METALLIC CONDUIT TO PROTECT WIRE BETWEEN THERMOSTAT AND POINT WHERE IT CONNECTS TO HEATER STRIP.
h) WHERE THE TEMPERATURE OF THE FLUID IN A PIPE WILL EXCEED 150°F, SUBSTITUTE RAYCHEM "5XTV1-CT" STRIP OR "10XTV1-CT" STRIP FOR 5 AND 8 WATT APPLICATIONS RESPECTIVELY, (AND ACCESSORIES) FOR HEATER STRIP SPECIFIED. MODIFY CIRCUITRY IF REQUIRED.

NOTE: A SEPARATE PIPE HEATER STRIP COMPLETE WITH THERMOSTAT AND ALL APPURTENANCES, IS REQUIRED IN CONJUNCTION WITH EACH SYMBOL FOR WHICH A REFERENCE TO THESE SPECIFICATIONS IS MADE. MULTIPLE CABLES MAY BE ATTACHED TO ONE THERMOSTAT, PROVIDED THAT THE TOTAL LENGTH OF CABLES DOESN'T EXCEED MAXIMUM SAFE LENGTH.

SPECIFICATION NOTES FOR ELECTRIC PIPE TRACING - DETAIL VII



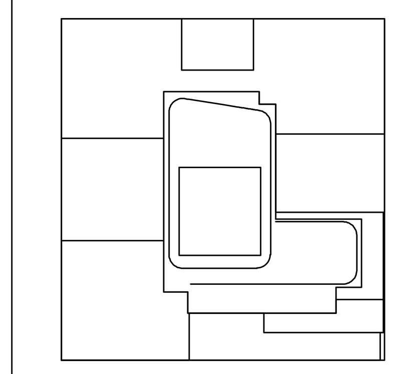
OPERATION:

1. OPERATION OF THE PUSH-BUTTON STATION SHALL BE MOMENTARY.
2. PRESSING THE OPEN BUTTON SHALL OPEN THE DOOR TO ITS FULL OPEN POSITION AND STOP.
3. PRESSING THE CLOSE BUTTON SHALL CLOSE THE DOOR TO ITS FULL CLOSE POSITION AND STOP.
4. PRESSING THE STOP BUTTON SHALL STOP THE POWER WHILE THE DOOR IS EITHER IN OPEN OR CLOSE OPERATION.
5. SAFETY EDGE SHALL STOP OR REVERSE THE DOOR DOWNWARD TRAVEL UPON CONTACT WITH OBJECT.
6. MANUAL PULL CHAIN SHALL OVERRIDE ELECTRIC OPERATION AND SHALL BE OPERABLE UPON LOSS OF POWER.
7. PHOTO ELECTRIC SENSOR SHALL STOP OR REVERSE THE DOWNWARD TRAVEL OF THE DOOR IF BLOCKED.

MOTOR OPERATED ROLL-UP DOOR

DETAIL VIII

NO SCALE



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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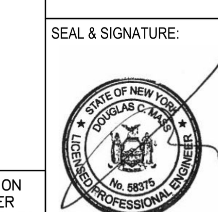
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #3

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-403.00
DWG NO.
OF

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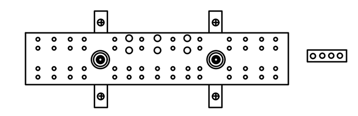
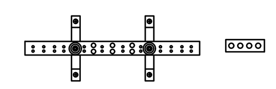


TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB)

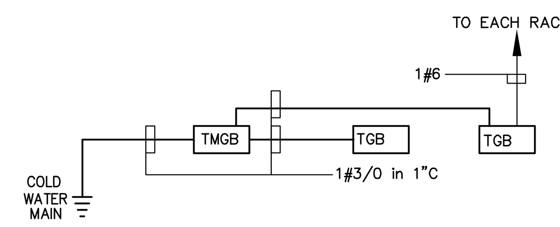
SCALE: N.T.S.

NOTE: PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, HAVE MINIMUM DIMENSIONS OF 1/4 INCH THICK BY 4 INCHES WIDE BY A MINIMUM OF 12 INCHES LONG AND SHALL BE LISTED FOR THIS APPLICATION.



TELECOMMUNICATIONS GROUNDING BUSBAR (TGB)

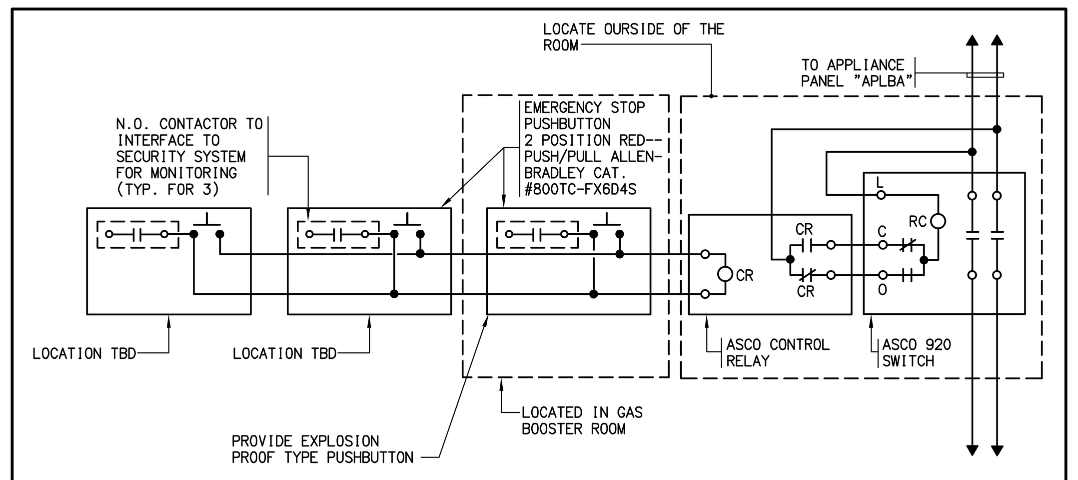
NOTE PREDRILLED COPPER BUSBAR WITH HOLES. SUITABLE FOR USE WITH STANDARD LUGS, MINIMUM DIMENSIONS: OF 1/4 INCH THICK BY 2 INCHES WIDE BY A MINIMUM OF 10 INCHES LONG (REFER TO TELECOMMUNICATION DRAWINGS AND SPECIFICATIONS FOR ACTUAL LENGTH) AND SHALL BE LISTED BY FOR THIS APPLICATION..



GROUNDING BUS BAR DETAILS AND NOTES

NOT TO SCALE

DETAIL X



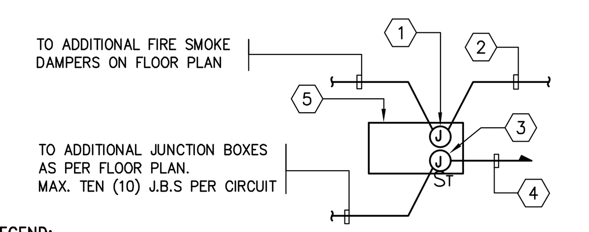
NOTES:

1. GAS BOOSTER PUMP ROOM IS DESIGNATED AS A CLASS I, DIV. 2, GROUP D HAZARDOUS LOCATION PER NEC ARTICLE 500. ELECTRICAL EQUIPMENT SHALL COMPLY WITH ALL EQUIPMENTS.
2. ALL ELECTRICAL CONNECTIONS/FITTINGS INSIDE GAS PUMP ROOM SHALL BE EXPLOSION PROOF TYPE.

WIRING DIAGRAM FOR GAS BOOSTER PUMP EMERGENCY STOP

NOT TO SCALE

DETAIL XI



LEGEND:

1. JUNCTION BOX FOR FIRE ALARM WIRING.
2. EXTEND AND CONNECT TO FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY ZONE MODULES, RELAYS, WIRING AND PROGRAMMING OF SYSTEM REQUIRED FOR A COMPLETE OPERATION.
3. JUNCTION BOX FOR POWER SUPPLY TO FIRE/SMOKE DAMPER.
4. CONNECT TO 20A–1P C/B AT THE NEAREST 120/208V PANEL WITH 2#12–3/4"c
5. FIRE SMOKE DAMPER

NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATION OF FIRE/SMOKE DAMPERS.

SEQUENCE OF OPERATION

UPON ACTUATION OF ANY SMOKE DETECTOR ASSOCIATED WITH FAN SYSTEM ON THIS FLOOR, THE FOLLOWING SHALL OCCUR:

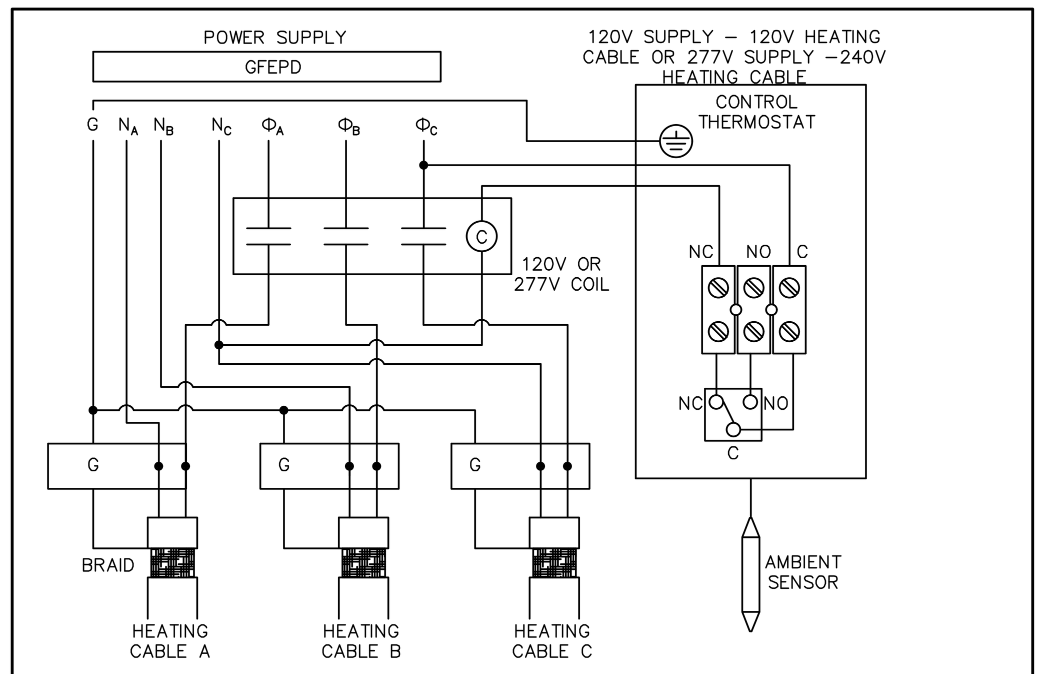
1. OPERATE RELAYS IN OUTLYING EQUIPMENT CONTROL CABINETS TO ACCOMMODATE TRANSMISSION OF SIGNAL TO DAMPERS, FANS AND OTHER EQUIPMENT ASSOCIATED WITH THE BUILDING MECHANICAL EQUIPMENT SYSTEM.
2. PROVIDE DUCT SMOKE DETECTORS IN THE DUCT WITHIN 5 FEET OF EACH COMBINATION FIRE/SMOKE DAMPER AND SMOKE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DAMPER & THE DETECTOR. REFER TO HVAC DUCT DRAWINGS FOR EXACT LOCATION & QUANTITIES OF DAMPERS. PROVIDE FIRE ALARM CONNECTIONS TO THESE DUCT SMOKE DETECTORS AND INTERFACE THEM FOR OPERATION AS PART OF THE FIRE ALARM SYSTEM. ELECTRICAL CONTRACTOR SHALL COORDINATE WIRING OF ALL SMOKE DAMPERS WITH MECHANICAL CONTRACTOR.

FIRE/SMOKE DAMPER SYSTEM

NOT TO SCALE

DETAIL XII

NOT TO SCALE



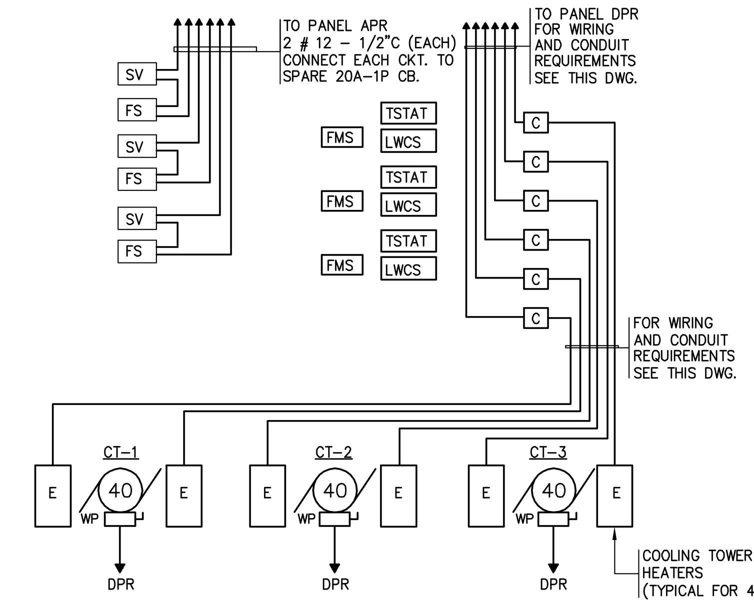
NOTES:

1. REFERENCE DETAIL "X" FOR HEAT TRACING CABLE AND COMPONENTS SPECIFICATIONS.
2. PROVIDE APPROPRIATE RATED CONTACTOR WITH NUMBER OF POLES AS REQUIRED FOR EACH CIRCUIT. MOUNT CONTACTOR IN NEMA 1 RATED ENCLOSURE FOR INDOOR INSTALLATIONS AND NEMA 3R FOR OUTDOORS.
3. GFEPD – (GROUND FAULT EQUIPMENT PROTECTOR DEVICE)

TYPICAL HEAT TRACING CONTROL WIRING DIAGRAM

NOT TO SCALE

DETAIL XIV



COOLING TOWER WIRING DIAGRAM

NOT TO SCALE

DETAIL XIII

LIST OF EQUIPMENT AND WORK REQUIRED FOR INSTALLATION OF COOLING TOWER:

SYMBOL	DESCRIPTION
(fan motor symbol)	FAN MOTORS – 3 @ 40 HP (FAN STARTERS SHALL BE TWO SPEED REVERSIBLE TYPE) – JUNCTION BOX TERMINALS FOR 460V, 3 PHASE, 60 HZ.
C	30 AMP. NEMA 4 CONTRACTOR BOXES WITH 460V, 3 PHASE, 60 HZ. TO 110V, 1 PHASE, 60 HZ. TRANSFORMER (CONTACTORS SHALL BE FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR) TYPICAL FOR 4.
E	ELECTRIC IMMERSION HEATERS – 2 @ 14 KW PER COOLING TOWER, TOTAL OF (6) @ 14KW, 460V,3 PHASE, 60 HZ
TSTAT	ELECTRIC HEATER THERMOSTAT
LWCS	ELECTRIC HEATER LOW WATER CUTOUT SWITCH.
FMS	FAN MOTOR STARTER
SV FS	ELECTRIC WATER MAKE-UP SOLENOID VALVE AND FLOAT SWITCH 110 VOLT, 1 PHASE, 60 HZ. (WIRED IN SERIES).

ELECTRICAL WIRING: THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL POWER WIRING RELATED TO THE COOLING TOWER. THE MECHANICAL CONTRACTOR SHALL FURNISH AL OTHER WIRING WHICH SHALL BE DEFINED AS CONTROL AND INTERLOCKING WIRING.

POWER WIRING: (FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR) SHALL INCLUDE THE FOLLOWING ITEMS:

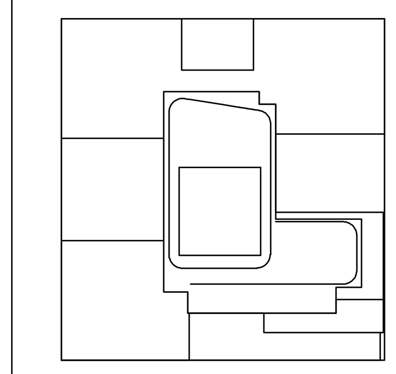
1. 460 VOLT, 3 PHASE TO TERMINALS OF EACH FAN MOTOR.
2. 460 VOLT, 3 PHASE FROM EACH IMMERSION HEATER TERMINALS TO TERMINALS ON CONTRACTOR BOX SERVING THE ABOVE.
3. 460 VOLT, 3 PHASE TO EACH CONTRACTOR BOX TERMINALS FROM LOCAL PANEL.
4. 110 VOLT, 1 PHASE TO ELECTRICAL FLOAT SWITCH AND SOLENOID VALVE (WIRED IN SERIES).
5. 110 VOLT, 1 PHASE CONNECTION TO EACH CELL FOR CONTROLS.
6. 110 VOLT, 1 PHASE CONNECTION TO EACH CELL VIBRATION SWITCH.
7. 110 VOLT, 1 PHASE CONNECTION TO TOWER GEAR HEATER.
8. TWO 110 VOLT, 1 PHASE CONNECTIONS TO WATER FILTERS.
9. TWO 110 VOLT, 1 PHASE CONNECTIONS TO STRAINER CYCLE FILTER.
10. 110V, 1 PHASE FROM IMMERSION HEATERS CONTRACTOR TRANSFORMER TO THERMOSTAT AND LOW WATER CUTOUT SWITCH (WIRED IN SERIES).
11. PROVIDE 8 STANCHION MOUNTED LIGHT FIXTURES SIMLAR TO LIGHTING FIXTURE TYPE "D" WITH 7' STANCHIONS. PROVIDE TWO (2) WEATHER PROOF LIGHT SWITCHES.

INTERLOCKING WIRING: (WORK DONE BY MECHANICAL CONTRACTOR) SHALL INCLUDE THE FOLLOWING:

1. 24 VOLT WIRING FROM EACH END SWITCH TO EACH FAN STARTER COIL.
2. ALL INTERLOCKING WIRING REQUIRED.

COOLING TOWER NOTES:

1. COOLING TOWER WIRING DIAGRAM AND DESCRIPTION IS ONLY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY (COORDINATE) ALL REQUIREMENTS WITH COOLING TOWER MANUFACTURER AND MECHANICAL CONTRACTOR PRIOR TO SUBMITTAL OF HIS BID PROPOSAL.
2. CONNECT ALL 110V BRANCH CIRCUITS TO SEPARATE (SPARE) 20A–1P CB.'S IN PANEL APR.
3. CONNECT ALL 460V, 3 PHASE LOADS AS PER RISER DIAGRAM AND THIS DWG.



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #4

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 15031B318
SCALE: NONE
E-404.00
DWG NO.
OF

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FILE NAME I:\15031B_Outgoing\2017-10-12 update DOB set\electrical\15031BE404.dwg SAVED ON 9/12/2017 7:15 PM PLOTTED ON 10/12/2017 1:31 PM PLOTTED BY VALITE, VAN

STEP DOWN/STEP UP TRANSFORMER SCHEDULE (XV)

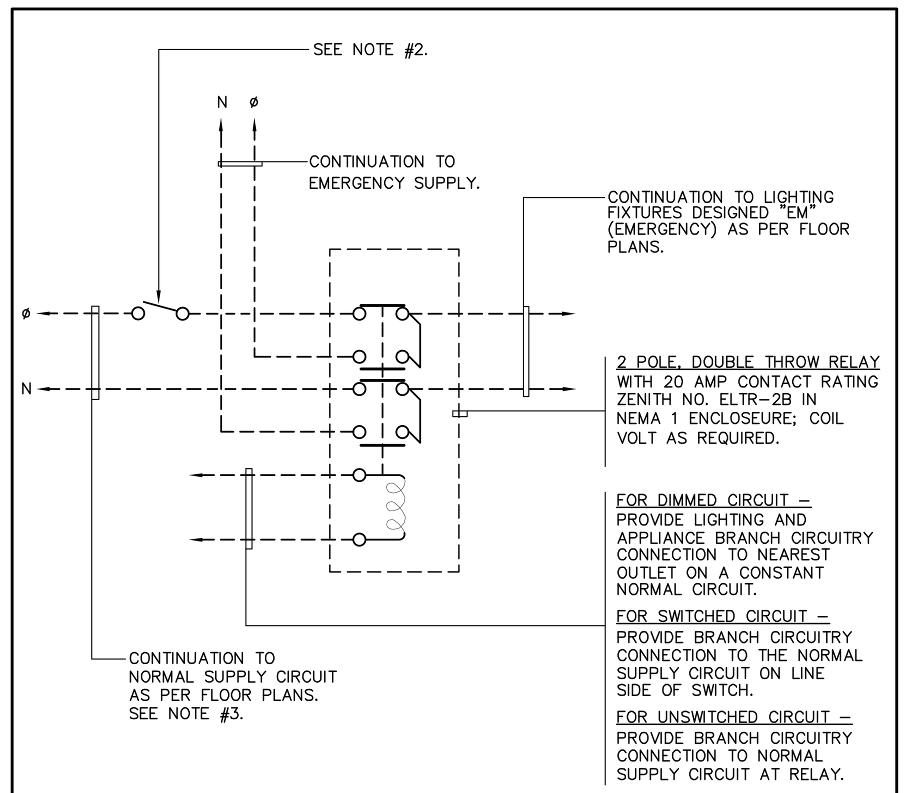
TRANSFORMER (KVA)	480 VOLT SIDE OCD (AMPS)	480 VOLT SIDE FEEDER	120/208 VOLT SIDE OCD (AMPS)	120/208 VOLT SIDE NON "K" RATED TRANSFORMER FEEDER	120/208 VOLT SIDE "K" RATED TRANSFORMER FEEDER
9	15	3#12+1#12G – 3/4"C	40	4#8+1#8G – 1"C	3#8+1#4+1#8G – 1"C
15	30	3#10+1#10G – 3/4"C	50	4#6+1#8G – 1"C	3#6+1#2+1#8G – 1-1/4"C
30	50	3#6+1#10G – 1"C	100	4#2+1#8G – 1-1/4"C	3#2+1#3/0+1#8G – 1-1/2"C
45	70	3#4+1#8G – 1"C	150	4#1/0+1#6G – 2"C	3#2/0+(1)300MCM+1#4G – 2-1/2"C
75	125	3#1+1#6G – 1-1/2"C	225	4#4/0+1#2G – 2-1/2"C	3#250MCM+(1)600MCM+1#2G – 3"C
112.5	175	3#2/0+1#6G – 2"C	400	(4)600MCM+1#1/0G – 4"C	(3)700MCM+(2)400MCM+1#2/0G – 4"C
150	225	3#4/0+1#4G – 2"C	500	(8)250MCM+2#2G – (2)3"C	(6)300MCM+4#4/0+2#2G – (2)3"C
225	350	(3)400MCM+1#3G – 3"C	800	(8)600MCM+2#1/0G – (2)4"C	(6)700MCM+(4)400MCM+2#2/0G – (2)4"C
300	500	(6)250MCM+2#2G – (2)2-1/2"C	1000	(12)400MCM+3#2/0G – (3)3"C	(9)500MCM+(6)350MCM+3#2/0G – (3)3-1/2"C
500	800	(6)500MCM+2#1/0G – (2)3"C	1600	(20)400MCM+5#4/0G – (5)3-1/2"C	(15)500MCM+(10)300MCM+5#4/0G – (5)3-1/2"C

NOTES:

1 – FOR EACH TRANSFORMER WHICH SUPPLIES A PANEL WITH AN ISOLATED GROUND BUS, PROVIDE AN ISOLATED GROUND CONDUCTOR IN EACH CONDUIT OF THE SECONDARY FEEDER, SIZED PER CODE. INCREASE INDICATED CONDUIT SIZE IF NECESSARY TO ACCOMMODATE THIS CONDUCTOR.

2 – FOR EACH TRANSFORMER PROVIDE A GROUNDING ELECTRODE CONDUCTOR, PER SPECIFICATIONS.

3 –GROUND CONDUCTORS IN SECONDARY FEEDERS ARE SIZED AS SUPPLY-SIDE BONDING JUMPER PER NEC. WHERE FEEDER CONTINUES BEYOND A DISCONNECTING MEANS THE GROUND CONDUCTORS IN SUCH EXTENSION MAY BE REDUCED TO SIZES REQUIRED BY NEC FOR EQUIPMENT GROUNDING CONDUCTORS.



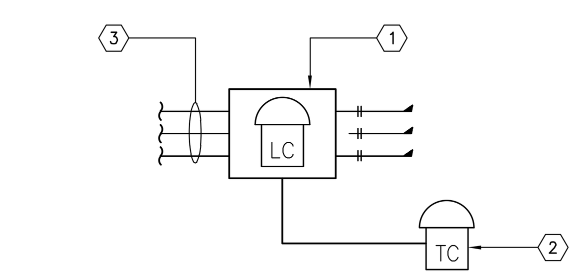
NOTES:

1. RELAY SHOWN ENERGIZED (NORMAL POWER AVAILABLE).
2. THE SWITCH SHOWN, IF REQUIRED, IS ON UNDIMMED CIRCUITS ONLY.
3. CONNECT TO DIMMER FOR DIMMED CIRCUITS AND TO NORMAL SUPPLY FOR UNDIMMED CIRCUITS.
4. WHERE (2) OR (3) RELAYS ARE SPECIFIED AT THE SAME LOCATION, OPTIONAL USE OF A 4 POLE, DOUBLE THROW RELAY IS PERMITTED, EXCEPT THAT THIS APPLIES ONLY TO UNDIMMED CIRCUITRY, AND ONLY IF ALL CIRCUITS CONNECTED TO A RELAY DERIVE FROM THE SAME PANEL AND NO MORE THAN ONE CIRCUIT PER PHASE IS CONNECTED TO THE RELAY.

DETAIL OF EMERGENCY LIGHTING TRANSFER RELAY (UL924)

NOT TO SCALE

DETAIL (XVIII)



LEGEND

1. ASCO REMOTE CONTROL SWICTH CAT #917-4-20-7-1-C. (OR RELAY LIGHTING CONTROL PANEL)
2. TORK TIMECLOCK DZS-100.
3. BRANCH CIRCUIT WIRING TO LIGHTING CONTROLLED BY TIMER

LIGHTING CONTROLLED BY CONTACTOR WIRING DIAGRAM

NOT TO SCALE

DETAIL (XIX)

GENERAL:

CONTRACTOR SHALL PROVIDE A COMPLETE MICROPROCESSOR BASED LIGHTING CONTROL SYSTEM AS DESCRIBED HEREIN INCLUDING START-UP, PROGRAMMING AND USER OPERATION MANUALS FOR EACH SCHEDULED LIGHTING CONTROL PANEL.

A. SYSTEM DESCRIPTION

THE LIGHTING CONTROL PANEL (LCP) SHALL PROVIDE THE ABILITY TO CONTROL LIGHTING THROUGH THE USE OF LOW VOLTAGE INPUTS AND LATCHING RELAYS. THE PANEL SHALL BE FIELD PROGRAMMABLE BY A USER FRIENDLY INTEGRAL OR DEMOUNTABLE PROGRAMMING MODULE.

B. MECHANICAL FEATURES

1. LCP SHALL HAVE CAPACITY FOR QUANTITY OF RELAYS SCHEDULED.
2. LCP SHALL HAVE A PROGRAMMABLE SWITCH INPUT FOR EACH RELAY (OUTPUT) EXCEPT AS NOTED BELOW:
   A. WITHIN EACH LCP THE NUMBER OF PROGRAMMABLE SWITCH INPUTS (PSI's) MAY BE REDUCED TO 25% OF THE TOTAL NUMBER OF OUTPUTS (RELAYS) AND THE REMAINDER OF THE OUTPUTS CONTROLLED DIRECTLY BY THE CONTROL STATIONS (AND BY A CENTRAL PROGRAMMING FUNCTION) PROVIDED THAT THE LOCAL CODE HAVING JURISDICTION ALLOWS THE WIRING FROM THE CONTROL STATION TO BE RUN WITHOUT CONDUIT OR OTHER RACEWAY. IN SUCH CASE THE SYSTEM SHALL ACCOMODATE THE CONTROL OF AT LEAST (3) RELAYS FROM EACH CONTROL STATION.
3. SWITCH INPUTS SHALL BE SUITABLE FOR USE WITH 2 BUTTON/3WIRE MOMENTARY CONTACT SWITCHES.
4. THE SYSTEM SHALL BE CAPABLE OF ACCEPTING AUTOMATIC SWITCHING INPUTS SUCH AS PHOTO-ELECTRIC CELLS, VACANCY SENSORS, ETC.
5. RELAYS SHALL BE 20A, 277 VOLT WITH DUAL 24 VOLT (NOMINAL) COIL; G.E. RR-7 OR APPROVED EQUAL. PROVIDE BARRIER WITHIN THE PANEL WHERE 120 AND 277 VOLTS ARE USED WITHIN THE SAME ENCLOSURE. PROVIDE QUANTITY OF RELAYS (FACTORY OR FIELD INSTALLED) AS SCHEDULED.
6. PROVIDE 120 OR 277 VOLT INPUT POWER SUPPLY AND/OR CONTROL TRANSFORMERS AS REQUIRED FOR SYSTEM CONTROL.
7. DATA AND TIME CONTROL FEATURES SHALL HAVE BATTERY BACK-UP.

C. PROGRAMMING FEATURES

1. THE PROGRAMMER SHALL REQUIRE ENTRY OF A SECURITY ACCESS CODE TO INITIATE OR CHANGE SYSTEM PROGRAMMING.
2. ASSIGNMENT OF PROGRAMMABLE SWITCH INPUTS TO SWITCH OUTPUTS SHALL BE MADE UTILIZING THE PROGRAMMER.
3. THE SYSTEM'S TIMED PROGRAMS SHALL PROVIDE A FULL YEAR REAL TIME CLOCK AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME AND FOR HOLIDAYS. IT SHALL BE POSSIBLE TO PROGRAM A MINIMUM OF NINE ADDITIONAL UNIQUE SCHEDULES TO CONTROL SELECTED GROUPS OF RELAYS.
4. PRIOR TO TURNING LIGHTS OFF, THE SYSTEM SHALL AUTOMATICALLY BLINK THE LIGHTS TO WARN THE OCCUPANT. THE WARNING LAG TIME SHALL BE FACTORY SET TO 5 MINUTES.
5. EACH SWITCH INPUT SHALL BE INDIVIDUALLY FIELD PROGRAMMABLE SO AS TO ALLOW THE SYSTEM'S REGULAR TIMED PROGRAM TO BE OVERRIDDEN, FOR THE ZONE (I.E., RELAYS) CONTROLLED BY THE SWITCH CONTROL STATION FOR A FIXED TIME OF 2 HOURS.
6. THE PROGRAMMER REFERRED TO HEREINBEFORE SHALL BE PROVIDED COMPLETE WITH ALL REQUIRED SOFTWARE/FIRMWARE.
7. IF THE DEDICATED CIRCULATION LIGHTING ZONE(S) ARE ESTABLISHED THE SYSTEM SHALL BE PROGRAMMED SO THAT ANY LOW VOLTAGE MANUAL OVERRIDE ACTUATION FOR ANY AREA ON THE ASSOCIATED FLOOR SHALL AUTOMATICALLY OVERRIDE "ON" THE CIRCULATION LIGHTING ZONE(S) ON THE ASSOCIATED FLOOR.

D. WIRING

LOW VOLTAGE WIRING CONNECTING CONTROL STATIONS TO THE LCP SHALL UTILIZE MULTI CONDUCTOR (#18 AWG. MIN.) FLUOROPOLYMER JACKETED CABLE. WIRE SHALL BE SUITABLE FOR RUNNING IN PLENUM AND SHALL BE UL APPROVED CLASS CL3P OR CMP. WHERE CONCEALED IN THE VOIDS OF HOLLOW PARTITIONS OR HUNG CEILINGS, WIRING MAY BE RUN WITHOUT RACEWAY. FOR ALL OTHER LOCATIONS, WIRING SHALL BE RUN IN ELECTRIC METALLIC TUBING (EMT).

E. MANUFACTURERS

CONTROL SYSTEM SHALL BE DOUGLAS LIGHTING CONTROL "LITEPAK" WPAK-33518-S,OTHER MANUFACTURER'S SYSTEMS MAY BE SUBMITTED FOR APPROVAL IF THEY COMPLY IN ALL RESPECTS WITH THE SPECIFIED SYSTEM REQUIREMENTS.

F. APPROVALS

PANELS AND OTHER SYSTEM COMPONENTS INCLUDING CONTROL STATION AND WIRING SHALL BE U.L. APPROVED AND SHALL ALSO BE APPROVED BY ALL LOCAL AUTHORITIES HAVING JURISDICTION.

G. CONTROL STATIONS

CONTROL STATIONS SHALL BE OF THE LOW VOLTAGE 3 WIRE/2 BUTTON MOMENTARY CONTACT SWITCH TYPE. FOR FOUR ZONES OR LESS PROVIDE G.E. RS2 SERIES SWITCHES WITH STANDARD PLATES. FOR OVER 4 ZONES PROVIDE G.E. MASTER PLATE SERIES WITH BLANKS FOR SPARE SWITCH LOCATIONS. PROVIDE LABELING AS DIRECTED. FINISH SHALL BE WHITE UNLESS OTHERWISE DIRECTED.

H. SUBMISSIONS

PROVIDE CATALOG CUTS, SPECIFICATIONS, RISER DIAGRAMS, WIRING DIAGRAMS AND OTHER INFORMATION AS REQUIRED TO FULLY DESCRIBE THE SYSTEM. INCLUDE FOR EACH LCP A SCHEDULE DESCRIBING FOR EACH CONTROL ZONE THE RELAY NUMBERS, LIGHTING PANEL CIRCUIT NUMBERS AND THE AREA CONTROLLED. ALSO PROVIDE A "PROJECT TIME OF DAY SCHEDULE" IDENTIFYING "ON-OFF" ACTIONS FOR SPECIFIC GROUPS OF LIGHTS, AND THE TIMES AND DAYS AT WHICH THEY OCCUR. THE IDENTIFICATION SHALL INCLUDE AREAS CONTROLLED, RELAYS CONTROLLED AND LIGHTING PANEL CIRCUITS.

I. BRANCH CIRCUITRY

CIRCUITRY SUPPLYING RELAY CONTROLLED LIGHTING FIXTURES SHALL BE UNDERSTOOD TO INCLUDE ALL NECESSARY INTERCONNECTIONS BETWEEN THE CONTROL PANELS CONTAINING THE RELAYS AND THE ASSOCIATED LIGHTING OR APPLIANCE PANELS.

LEGEND

P LS "A" — LIGHTING CONTROL PANEL (UPPER CASE LETTERS DENOTES PANEL DESIGNATION)

S LS a,b,c,d, — LOW VOLTAGE SWITCH CONTROL STATION WITH (1) SWITCH PER CONTROL ZONE (LOWER CASE LETTER(S) DENOTE CONTROL ZONES AND QUANTITY THEREOF). NOTE THAT WITHIN ANY AREA REQUIRING MULTI-LEVEL LIGHTING CONTROL, (2) CONTROL ZONES ARE SPECIFIED PER AREA.

LIGHTING CONTROL PANEL SCHEDULE

LIGHTING CONTROL PANEL (P LS "A") DESIGNATION	ASSOCIATED LIGHTING PANEL(S) DESIGNATON	VOLTAGE	DESIGNATION	VOLTAGE	QUANTITY OF RELAYS
LOBBY	LP-LOBBY	AS INDICATED		120V	16
AMMENITY	4TH FLOOR	AS INDICATED		120V	12

PROGRAMMABLE STAND ALONE LIGHTING CONTROL SYSTEM

DETAIL (XVI)

DESCRIPTION OF EQUIPMENT:

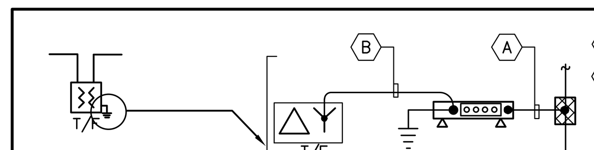
1. AT THE ROOF MECHANICAL/ELECTRICAL ROOM, PROVIDE EIGHT (8) MULTI-POLE RELAYS, EACH WITH 12 POLES, TO CONTROL TOILET EXHAUST EXHAUST FANS.

NOTES:

A. EACH MULTI-POLE RELAY SHALL BE PROVIDED WITH A 7 DAY, 24 HOUR DIAL TIME CLOCK WITH POWER RESERVE FEATURES.
B. ALL SINGLE POLE MOTORS REFERRED TO THIS DETAIL, SHALL HAVE THEIR PHASE LEG RUN THROUGH THE RELAY CONTACT AND ALL THREE PHASE MOTORS SHALL HAVE A CONTROL CIRCUIT RUN THROUGH THE RELAY.
C. RELAYS SHALL BE ASCO #917 IN NEMA 1 ENCLOSURE AND TIME CLOCKS SHALL BE TORK #TW-300L. SET TIME CLOCKS TO OPERATE RELAYS AS DIRECTED IN THE FIELD.

MULTI-POLE RELAY AND TIME CLOCK DETAIL FOR EXHAUST FANS

DETAIL (XX)



A — 1 – #3/0 G, 1"C

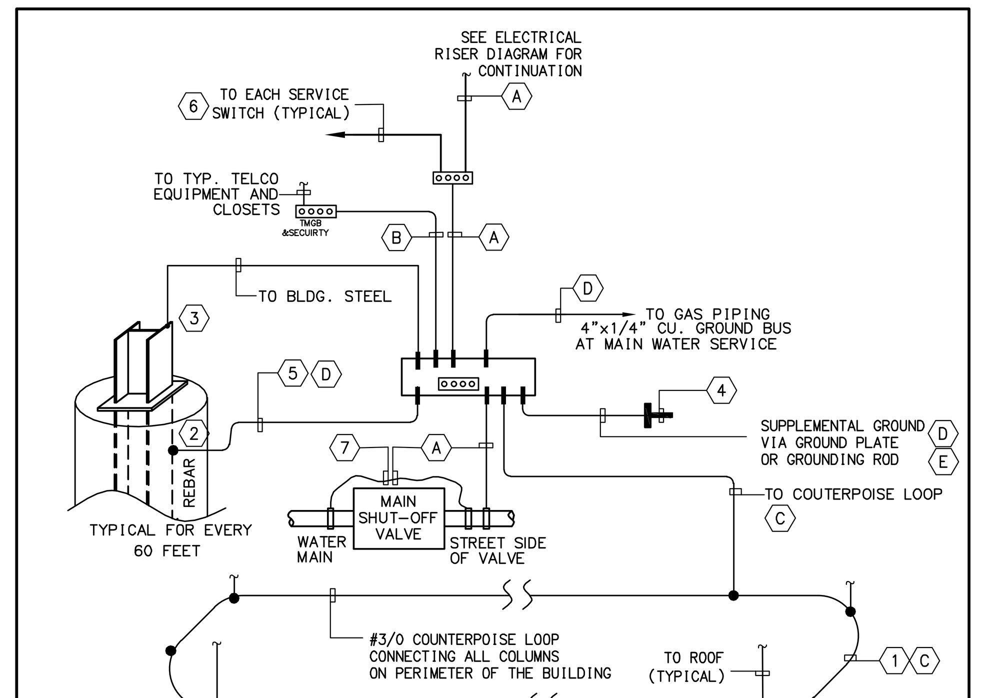
B —

T/F: 500kVA	1 – #3/0 G, 1"C
T/F: 300kVA	1 – #3/0 G, 1"C
T/F: 225kVA	1 – #3/0 G, 1"C
T/F: 150kVA	1 – #2/0 G, 1"C
T/F: 112.5kVA	1 – #1/0 G, 1"C
T/F: 75kVA	1 – #2 G, 1"C
T/F: 45kVA	1 – #4 G, 3/4"C
T/F: 30kVA	1 – #4* G, 3/4"C
T/F: 15kVA	1 – #4* G, 3/4"C
T/F: 9kVA	1 – #4* G, 3/4"C

TRANSFORMER GROUNDING MINIMUM REQUIREMENTS

NOT TO SCALE

DETAIL (XXII)



NOTES:

1. PROVIDE 1#3/0 AWG BARE COPPER CONDUCTOR AS COUNTERPOISE LOOP INSIDE CONCRETE MAT. ATTACH COUNTERPOISE LOOP TO STEEL REBARS 2' ABOVE BOTTOM OF MAT. COUNTERPOISE LOOP SHALL FOLLOW CONTOUR OF INSIDE FACE OF FOUNDATION WALLS & PIERS. LOOP SHALL BE CONTINUOUS. SPLICE USING EXOTHERMIC WELDS.
2. EXOTHERMICALLY WELD COUNTERPOISE LOOP TO VERTICAL STEEL REBAR.
3. PROVIDE 1#3/0 AWG BARE COPPER CONDUCTOR EXOTHERMICALLY WELDED TO STRUCTURAL STEEL AND COUNTERPOISE LOOP.
4. PROVIDE ERICO CADWELD GROUND PLATE TYPE B164-2Q. CONNECT PLATE TO STEEL CORE USING 1-#3/0 AWG BARE CONDUCTOR EXOTHERMICALLY WELDED AT BOTH ENDS. CAST PLATE FLUSH WITH INSIDE FACE OF CONCRETE PIER 18" ABOVE FINISHED FLOOR. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS.
5. MINIMUM GROUND CONDUCTOR SHALL BE #6. GROUND CONDUCTOR SHALL BE RUN IN CONDUIT IF EXPOSED TO PHYSICAL DAMAGE AS PER CODE.
6. CONDUCTORS AS PER NEW YORK CITY ELECTRICAL CODE (TABLE 250.66)
7. WATER METER PIPING: USE BRAIDED-TYPE BONDING JUMPERS TO ELECTRICALLY BYPASS WATER METERS. CONNECT TO PIPE WITH GROUNDING-CLAMP CONNECTORS

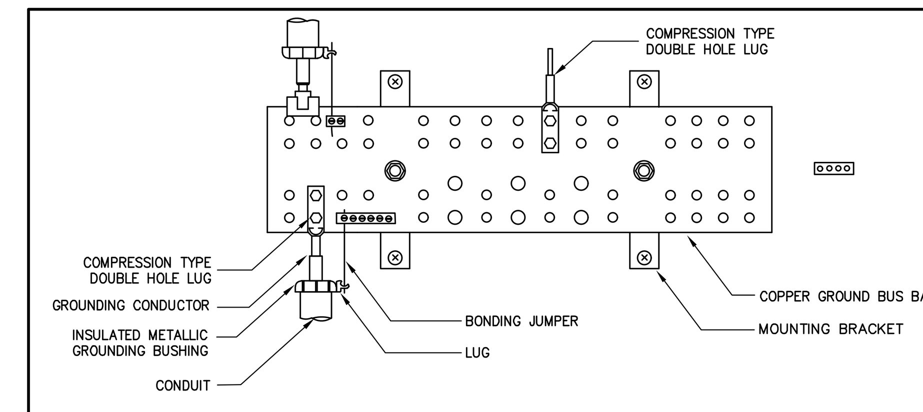
A. THE GROUND BUS CABLE SHALL CONSIST OF A 500 MCM GREEN CODED INSULATED COPPER CONDUCTOR RUN IN 1-1/2 INCH THREADED STEEL CONDUIT FROM THE STREET SIDE OF GROUNDING LOOP THROUGHOUT THE BUILDING TO ALL LOCATIONS AND EQUIPMENT REQUIRING GROUNDING.

B. 1 – #250MCM – 2"C C. 1 – #3/0 G D. 1 – #4 G – 1"C E. 1 – #6 G – 3/4"C

ELECTRICAL GROUNDING

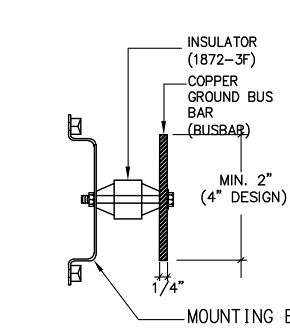
NOT TO SCALE

DETAIL (XVII)



ELECTRICAL GROUND BAR (BUSBAR) FRONT VIEW

NOTE: PREDRILLED COPPER BUSBAR WITH HOLES FOR USE WITH STANDARD-SIZED LUGS, HAVE MINIMUM DIMENSIONS OF 1/4 INCH THICK BY MINIMUM 2 INCHES WIDE (4" IN MAIN ELECTRICAL ROOM OR AT THE WATER MAIN) BY A MINIMUM OF 12 INCHES LONG AND SHALL BE LISTED FOR THIS APPLICATION.

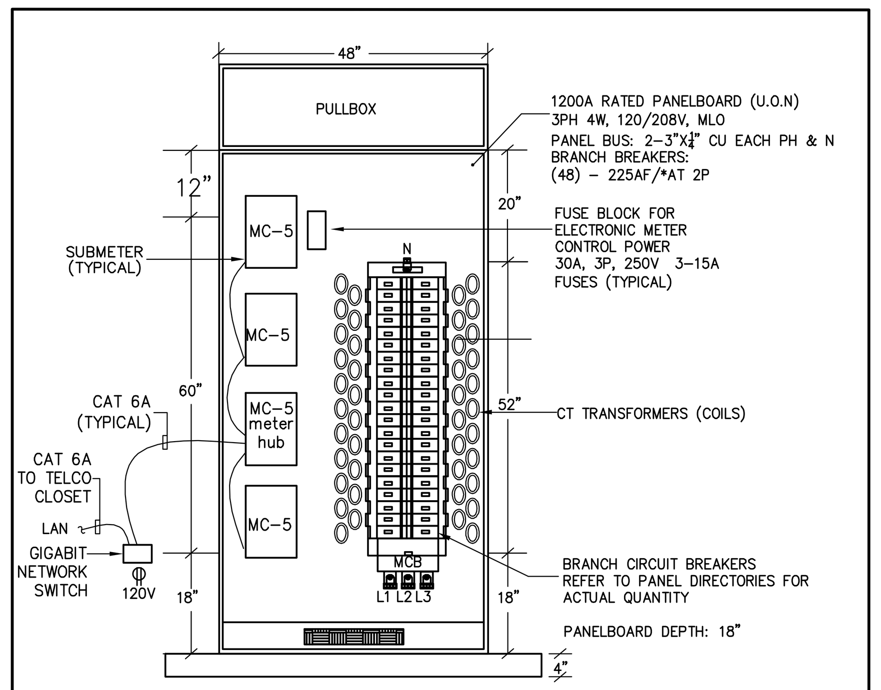


ELECTRICAL GROUND BAR (BUSBAR) SIDE VIEW

ELECTRICAL GROUNDING BAR (BUSBARS)

NOT TO SCALE

DETAIL (XXI)

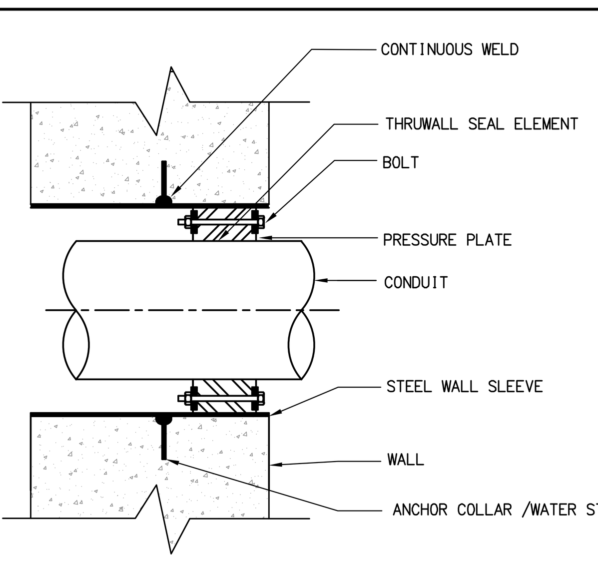


BASIS OF DESIGN (ALL CITY SWITCHBOARD CORP):
1) SUBMETERING: MiniCloset-5 MULTI-TENANT DIGITAL ELECTRIC METER AS MANUFACTURED BY QLC QUAD LOGIC, SATEC (BFM136) OR APPROVED EQUAL
2) BACK BOX AND FRONT COVER – STEEL GAGE AS REQUIRED BY THE CODE)
3) FINISH COAT ANSI-61 GREY POWDER COATED ENAMEL.
4) BRANCH CIRCUIT BREAKERS – SEE PANEL DIRECTORIES FOR REQUIRED CIRCUIT BREAKER SIZES. (2 POLE, 225A FRAME)
5) PROVIDE CAT6A PATCH BORDS AND GIGABIT NETWORK SWITCHES DEDICATED FOR SUBMETERING NETWORK. PROVIDE LINK TO TELEOCOMMUNCATION CLOSET.

TYPICAL TENANT DISTRIBUTION MINI CLOSET PANEL (MC)

NOT TO SCALE

DETAIL (XXIII)

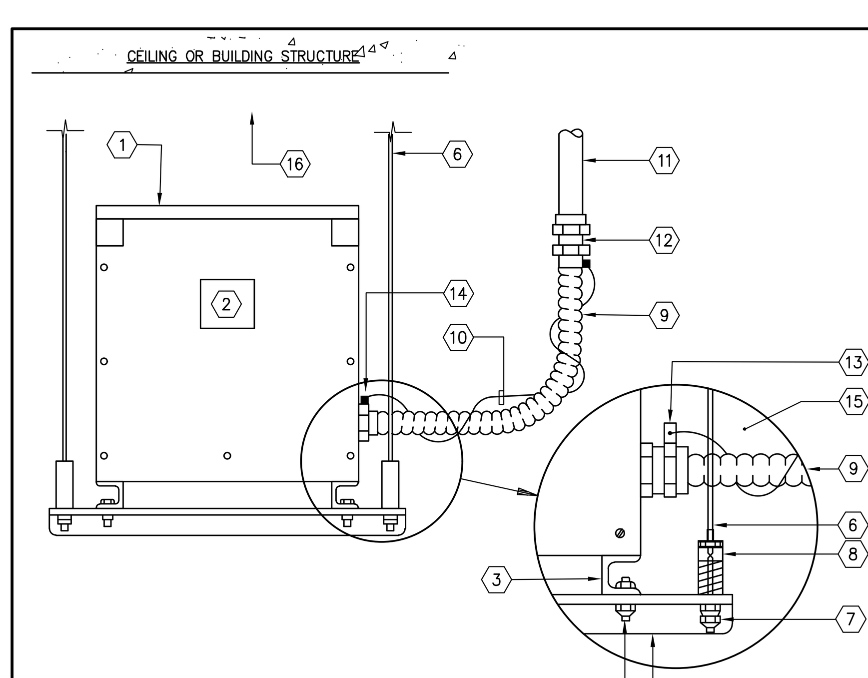


NOTES:

1. APPROVED MANUFACTURERS: OZ-GEDNEY/EMERSON INDUSTRIAL, LINKSEAL/GPT an EnPro INDUSTRIES.
2. INSTALL AS PER WRITTEN MANUFACTURER RECOMMENDATION.
3. PROVIDE A POSITIVE MEANS OF SEALING ALL CONDUITS/PIPES PASSING THROUGH A CONCRETE FOUNDATION OF A STRUCTURE BELOW GRADE (OR BELOW GROUND WATER LEVEL. ASSURE WATER TIDE INSTALLATION.

DETAIL FOR CONDUIT WATERPROOFING INSTALLATION

DETAIL (XXIV)



NOTES:

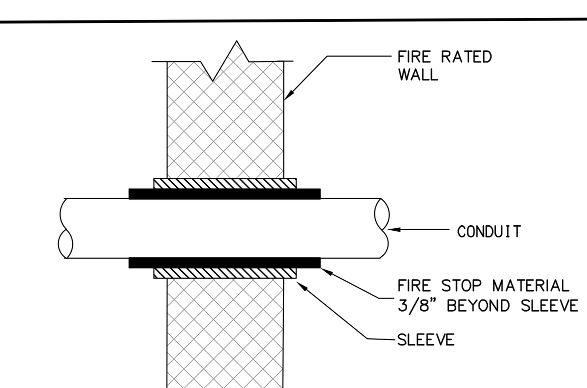
1. TRANSFORMER
2. TRANSFORMER NAMEPLATE
3. TRANSFORMER FRAME/BASE
4. 1/2"DIAMETER NUT, BOLT, WASHER & LOCK WASHER
5. "L" ANGLE STEEL SUPPORT 3"x3"
6. GALVANIZED THREADED STEEL ROD (1/2" DIAMETER)
7. 1/2"DIAMETER NUT, BOLT, WASHER & LOCK WASHER
8. VIBRATION ISOLATORS
9. GREENFIELD OR LIQUID TIGHT FLEXIBLE METAL CONDUIT 18"MIN.
10. EXTERNAL COPPER BONDING WIRE
11. RIGID CONDUIT
12. COMBINATION GREENFIELD/CONDUIT COUPLING
13. GROUNDING CONNECTOR (CLAMP WITH LUG)
14. GROUNDING LUG
15. SECONDARY CONNECTION DETAIL, PRIMARY – SIMILAR
16. PROVIDE MISCELLANEOUS STEEL AS REQUIRED TO CONNECT TO STRUCTURE

MOUNTING: TRANSFORMERS UP TO AND INCLUDING 15 KVA SHALL BE EQUIPPED WITH BRACKETS SUITABLE FOR WALL MOUNTING. LARGER THAN 15 KVA UP TO 75KVA SHALL BE SUITABLE FOR PLATFORM OR FLOOR MOUNTING.

TRAPEZE MOUNTED TRANSFORMER DETAIL

NOT TO SCALE

DETAIL (XXV)



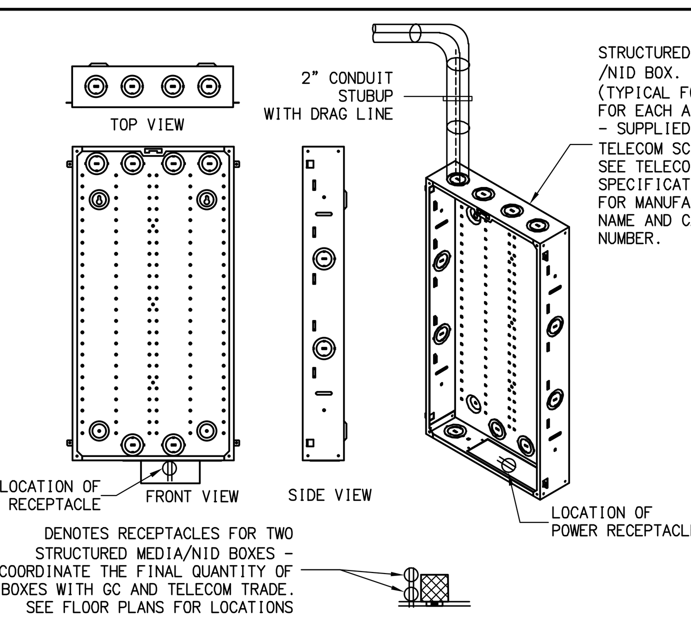
NOTES:

1. TYPICAL DETAIL FOR ALL CONDUITS PASSING THROUGH FIRE RATED WALL
2. REFER TO SPECIFICATION FOR LIST OF AVAILABLE AND APPROVED MATERIALS.

DETAIL FOR CONDUIT FIRESTOPPING INSTALLATION

NO SCALE

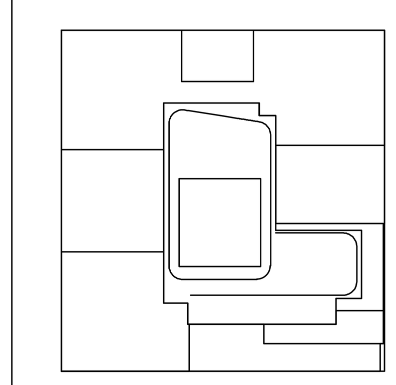
DETAIL (XXVI)



STRUCTURED MEDIA CENTER BOX (NID)

NO SCALE

DETAIL (XXVII)



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #5

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-405.00
DWG NO.
OF

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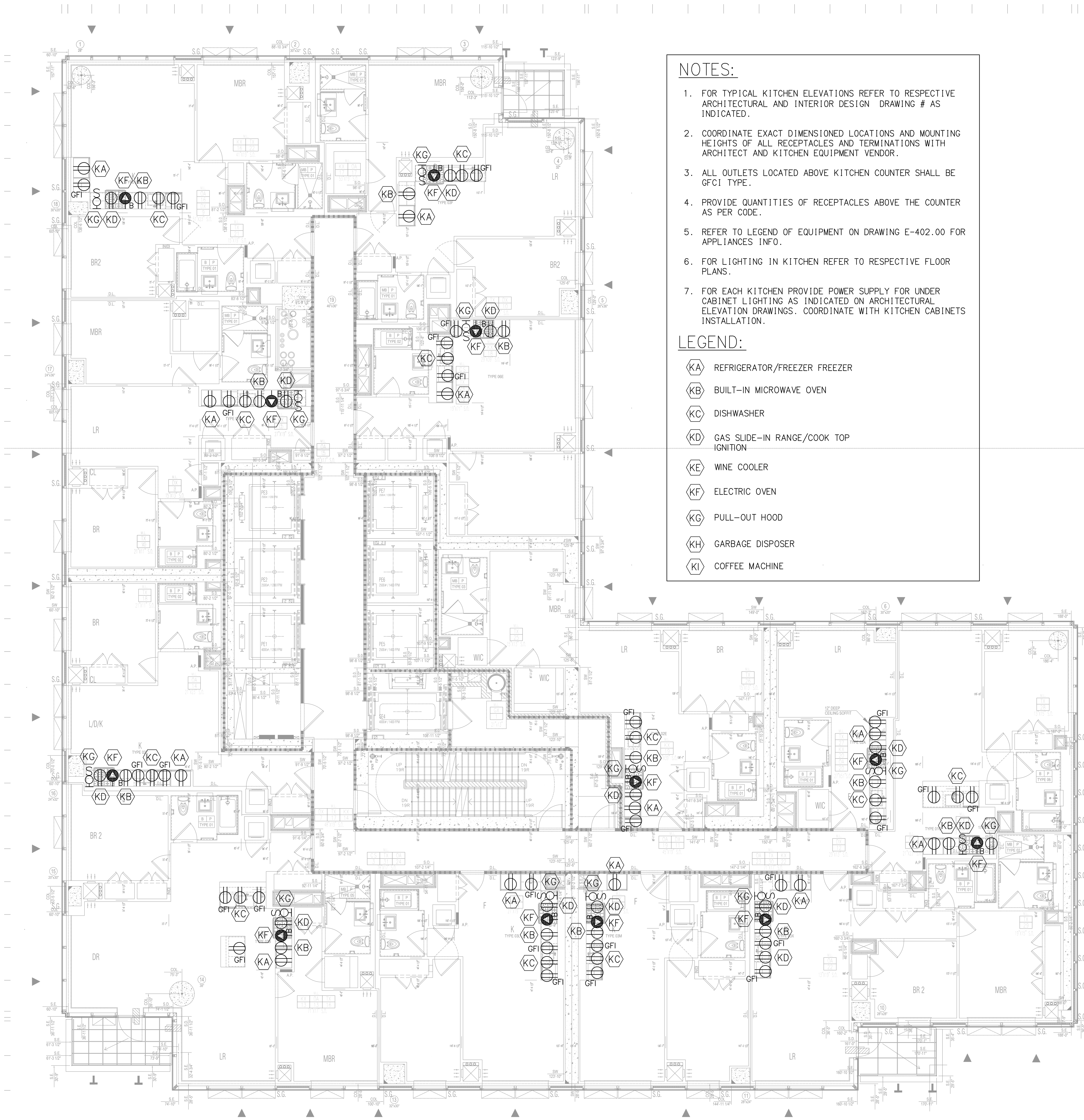
DEPT OF BLDGS 420655954 Job Number
ES346070204 Scan Code

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E405.dwg SAVED ON 9/7/2017 1:25 PM PLOTTED ON 10/12/2017 1:31 PM PLOTTED BY VALITE, VAN



NOTES:

1. FOR TYPICAL KITCHEN ELEVATIONS REFER TO RESPECTIVE ARCHITECTURAL AND INTERIOR DESIGN DRAWING # AS INDICATED.
2. COORDINATE EXACT DIMENSIONED LOCATIONS AND MOUNTING HEIGHTS OF ALL RECEPTACLES AND TERMINATIONS WITH ARCHITECT AND KITCHEN EQUIPMENT VENDOR.
3. ALL OUTLETS LOCATED ABOVE KITCHEN COUNTER SHALL BE GFCI TYPE.
4. PROVIDE QUANTITIES OF RECEPTACLES ABOVE THE COUNTER AS PER CODE.
5. REFER TO LEGEND OF EQUIPMENT ON DRAWING E-402.00 FOR APPLIANCES INFO.
6. FOR LIGHTING IN KITCHEN REFER TO RESPECTIVE FLOOR PLANS.
7. FOR EACH KITCHEN PROVIDE POWER SUPPLY FOR UNDER CABINET LIGHTING AS INDICATED ON ARCHITECTURAL ELEVATION DRAWINGS. COORDINATE WITH KITCHEN CABINETS INSTALLATION.

LEGEND:

KA	REFRIGERATOR/FREEZER FREEZER
KB	BUILT-IN MICROWAVE OVEN
KC	DISHWASHER
KD	GAS SLIDE-IN RANGE/COOK TOP IGNITION
KE	WINE COOLER
KF	ELECTRIC OVEN
KG	PULL-OUT HOOD
KH	GARBAGE DISPOSER
KI	COFFEE MACHINE

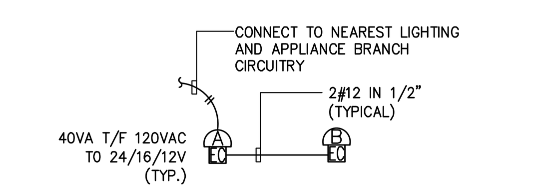
ELEVATOR POWER REQUIREMENTS DETAIL XXVIII

1. ALL ELECTRICAL INSTALLATION ASSOCIATED WITH ELEVATORS SHALL COMPLY WITH NYC ELECTRICAL CODE (2011) AND ALL APPLICABLE SECTIONS OF NYC ELEVATOR CODE ASME A17.1 - 2000, SAFETY CODE FOR ELEVATORS AND ESCALATORS, WITH SUPPLEMENTS A17.1A & 2002 AND A17.1B - 2003, AS MODIFIED BY APPENDIX K OF NEW YOR CITY BUILDING CODE (2014).
2. ELECTRICAL CONTRACTOR MUST NOT INSTALL ANY ELECTRICAL WIRING, RACEWAYS OR CABLES IN THE ELEVATOR HOISTWAY. ONLY ELECTRICAL WIRING, RACEWAYS, AND CABLES USED DIRECTLY IN CONNECTION WITH THE ELEVATOR, INCLUDING WIRING FOR SIGNALS, COMMUNICATION WITH THE CAR, LIGHTING, HEATING, AIR CONDITIONING, AND CAR VENTILATING, FIRE ALARM SYSTEM AND FIRE PROTECTION DEVICES, PIT SUMP PUMPS, ARE PERMITTED TO BE INSTALLED INSIDE THE HOISTWAY.
3. PROVIDE PERMANENT TWO-WAY VOICE COMMUNICATION BETWEEN THE ELEVATOR CARS, ELEVATOR MACHINE ROOMS AND THE BUILDING LOBBY FIRE COMMAND STATION AS REQUIRED BY THE CODE.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE A PERMANENT LIGHTING FIXTURES IN EACH ELEVATOR PIT. THE LIGHTING SHALL PROVIDE AN ILLUMINATION OF NOT LESS THAN 10 FOOT CANDLE AT THE PIT FLOOR/PLATFORM. THE LIGHTING FIXTURES SHALL BE EXTERNALLY GUARDED TO PREVENT CONTACT AND ACCIDENTAL BREAKAGE AS REQUIRED BY THE CODE. THE LIGHT SWITCH SHALL BE INSTALLED SO IT IS EASILY ACCESSIBLE FROM THE PIT ACCESS DOOR. CIRCUIT WITH 2#12 & 1#12G IN 3/4" TO CLOSEST NORMAL POWER ELECTRICAL PANEL.
5. INSIDE EACH ELEVATOR MACHINE ROOM (EMR) ELECTRICAL CONTRACTOR SHALL PROVIDE NEW PERMANENT LIGHTING FIXTURES WITH PROTECTIVE GUARDS AND 110 VOLT, 20AMP RATED DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTER TYPE. ILLUMINATION INSIDE EACH ELEVATOR MACHINE ROOM SHALL NOT BE LESS THAN 19 FOOT-CANDLES AT FLOOR LEVEL (30 FC DESIGN). ALL LIGHTING FIXTURES SHALL BE CONNECTED TO CIRCUIT BACKED UP BY EMERGENCY GENERATOR. LIGHT CONTROL SWITCH SHALL BE PROVIDED NEXT TO THE MACHINE ROOM ENTRANCE DOOR.
6. FOR EACH FIRE SERVICE ACCESS ELEVATOR PROVIDE HOISTWAY CONTRACTOR SHALL PROVIDE LIGHTING UTILIZING VAPORTIGHT LED LIGHTING FIXTURES WITH GLOBES AND GUARDS SIMILAR TO LIGHTING FIXTURE "TYPE P" OR APPROVED EQUAL, TO PROVIDE A MINIMUM OF ONE FOOT CANDLE AS MEASURED FROM THE TOP OF THE CAR. PROVIDE REQUIRED CONTROLS TO ACTIVATE THIS LIGHTING AUTOMATICALLY WHEN FIRE-FIGHTER'S EMERGENCY OPERATION IS ACTIVE.
7. CONTRACTOR TO PROVIDE ALL NECESSARY RECEPTACLES AS REQUIRED BY ELEVATOR CONTRACTOR TO SUPPLY POWER TO AUXILIARY ELEVATOR EQUIPMENT AND/OR REMOTELY LOCATED MONITORS AS INDICATED ON CONTRACT DRAWINGS OR DESCRIBED IN SPECIFICATIONS.
8. ELECTRICAL CONTRACTOR TO COORDINATE WITH THE ELEVATOR CONTRACTOR INSTALLATION OF AN ELECTRIC LIGHT AND CONVENIENCE RECEPTACLE ON THE CAR TOP.
9. CONTRACTOR SHALL INSTALL NEW MAIN LINE POWER FEED FOR EACH ELEVATOR OR ELEVATOR BANK DISTRIBUTION PANELBARD AS INDICATED ON CONTRACT DRAWINGS (ONE LINE RISER DIAGRAM) WITH APPROPRIATE DISCONNECTING MEANS DESIGNED AND LOCATED IN ACCORDANCE WITH CODE AND AUTHORITIES HAVING JURISDICTION LOCAL REQUIREMENTS. LOCATE ELEVATOR DISCONNECT MEANS WITHIN ?IN SIGHT? OF EACH MOTOR. AN ADDITIONAL DISCONNECT SWITCH SHALL BE PROVIDED FOR ANY ELEVATOR WHERE THE HOIST MOTOR IS NOT ?IN SIGHT? OF THE DISCONNECTING MEANS.
10. THE DISCONNECTING MEANS SHALL BE AN ENCLOSED, EXTERNALLY OPERATED, FUSED HEAVY DUTY (NO EXCEPTIONS) TYPE MOTOR CIRCUIT SWITCH OR CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE "OFF" ("OPEN") POSITION AND PROVIDED WITH ALL REQUIRED AUXILAIRY CONTACTS AS DESCRIBED FURTHER IN CONTRACT DOCUMENTATION. PROVIDE PROPER GROUNDING IN ACCORDANCE WITH ELECTRIC CODE.
11. FOR EACH ELEVATOR EQUIPPED WITH BATTERY OPERATED LOWERING DEVICE, ELECTRICAL CONTRACTOR TO PROVIDE A 'FORM C' AUXILIARY CONTACT IN DISCONNECT SWITCH (OR CIRCUIT BREAKER) SUPPLYING POWER TO THE ELEVATOR AND LISTED RELAY (MOUNTED ADJACENT TO THE ELEVATOR DISCONNECT SWITCH OR CIRCUIT BREAKER) WITH WIRING SO ARRANGED AS TO PREVENT THE ?ELEVATOR LOWERING SEQUENCE WHEN POWER FAILS? WHEN ELEVATOR CONTROLLER IS MANUALLY DE-ENERGIZED FOR MAINTENANCE OR ANY OTHER PURPOSES. PROVIDE 3/4" EMPTY CONDUIT (FOR INTERLOCK) FROM EACH DISCONECT SWITCH OR CIRCUIT BREAKER TO EACH BATTERY OPERATED LOWERING DEVICE.
12. EMERGENCY GENERATOR SHALL BE PROVIDED WITH LOAD BANK FOR THE PURPOSE OF ABSORBING ELEVATOR REGENERATIVE POWER. IN CASE WHEN NO LOAD BANK IS PROVIDED THE CONTRACT THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH ELEVATOR CONTRACTOR (AND PROVIDE I.E. INCLUDE IN HIS/HER BID PRICE) A MEANS TO ABSORB POWER REGENERATED BY THE ELEVATOR HOIST MOTOR DURING EMERGENCY POWER OPERATION. THE MEANS TO ABSORB THIS REGENERATIVE POWER SHALL BE PROVIDED ON THE LINE SIDE OF EACH MAIN LINE DISCONNECT SWITCH.
13. PROVIDE A DEDICATED 460 VOLT, 30 AMP THREE PHASE POWER SUPPLY FROM THE POWER PANEL SUPPLYING ELEVATORS WITH DISCONNECTING MEANS LOCATED INSIDE EACH MACHINE ROOM TO OPERATE THE GROUP CONTROLLER. PROVIDE FULLY ENCLOSED, EXTERNALLY OPERATED, FUSED CIRCUIT SWITCH OR CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN "OPEN"/"OFF" POSITITION.
14. PROVIDE POWER SUPPLY FOR ELEVATOR LANTERN PANEL IN FORM OF A SEPARATE 110 VOLT, 20 AMP BRANCH CIRCUIT (EMERGENCY POWER) AND DISCONNECTING MEANS FOR CAR LIGHTS FOR EACH ELEVATOR. THIS BRANCH CIRCUIT WILL FEED LIGHTING FIXTURES AND EXHAUST FAN UNITS INSIDE THE ELEVATOR CAR. THE DISCONNECTING MEANS - FUSED DISCONNECT SWITCH OR CIRCUIT BREAKERS, IF ALLOWED BY AUTHORITY HAVING JURISDICTION, SHALL BE CAPABLE OF BEING LOCKED IN THE "OPEN"/"OFF" POSITION. THE DISCONNECTING MEANS SHALL BE LABELED TO IDENTIFY THE APPROPRIATE NUMBER ON THE ELEVATOR CAB AND MARKED "CAR LIGHTS".
15. PROVIDE POWER SUPPLY FOR ELEVATOR TRAIL CABLE IN FORM OF SEPARATE 110 VOLT, 20 AMP BRANCH CIRCUIT (EMERGENCY POWER) FOR EACH ELEVATOR TO OPERATE THE AUXILIARY ELEVATOR DEVICES IN THE ELEVATOR CAR. THE DISCONNECTING MEANS SHALL BE LABELED TO IDENTIFY THE APPROPRIATE ELEVATOR NUMBER AND MARKED "AUXILIARY CAR DEVICES".
16. PROVIDE POWER SUPPLY FOR ELEVATOR SIGNAL & INTERCOM PANEL IN FORM OF SEPARATE 110 VOLT, 20 AMP BRANCH CIRCUIT (EMERGENCY POWER) AND DISCONNECTING MEANS FOR EACH ELEVATOR TO OPERATE THE ELEVATOR INTERCOM PANEL LOCATED IN EACH ELEVATOR ROOM. THE DISCONNECTING MEANS SHALL BE LABELED TO IDENTIFY THE APPROPRIATE ELEVATOR NUMBER AND MARKED "ELEVATOR SIGNAL AND INTERCOM PANEL".
17. PROVIDE SUPPLEMENTAL AUXILIARY POWER SUPPLY FOR EACH INDIVIDUAL CONTROLLER IN FORM OF SEPARATE 110 VOLT, 20 AMP BRANCH CIRCUIT (EMERGENCY POWER) AND DISCONNECTING MEANS FOR EACH ELEVATOR AUXILIARY FUNCTIONS.
18. CONTRACTOR SHALL PROVIDE ALL REQUIRED INTERFACES TO SIGNAL THE ELEVATOR CONTROLLER UPON ATS TRANSFER FROM NORMAL POWER SOURCE (UTILITY) TO THE EMERGENCY STANBY POWER SOURCE (GENERATOR). CONTRACTOR SHALL ALSO PROVIDE INTERFACE TO PROVIDE ADVANCED "PRE-SIGNAL" TO ELEVATOR CONTROLLER THAT THE POWER SOURCE WILL TRANSFER FROM EMERGENCY STANDBY POWER (GENERATOR) BACK TO NORMAL POWER (UTILITY). ELECTRICAL CONTRACTOR TO COORDINATE WORK AND INTERFACE REQUIRED WITH ELEVATOR CONTRACTOR. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS.
19. FROM EACH ELEVATOR SHAFT ELECTRICAL CONTRACTOR TO PROVIDE TWO 2-INCH EMPTY CONDUIT TO THE ELEVATOR DISPATCHER'S PANEL. THESE CONDUITS ARE INTENDED FOR ELEVATOR COMMUNICATION, SIGNALING AND ALARM SIGNALS. COORDIANTE WORK WITH ELEVATOR CONTRACTOR.
20. FROM EACH ELEVATOR SHAFT ELECTRICAL CONTRACTOR TO PROVIDE TWO 2-INCH EMPTY CONDUIT TO THE ELEVATOR DISPATCHER'S PANEL. THESE CONDUITS ARE INTENDED FOR ELEVATOR COMMUNICATION, SIGNALING AND ALARM SIGNALS. COORDIANTE WORK WITH ELEVATOR CONTRACTOR.
21. FOR EACH ELEVATOR PROVIDE TOP OF SHAFT COMMUNICATION AND ALARM FACILITIES AS FOLLOWS:
    a. TELEPHONE OUTLET BOX, COMPLETE WITH 3/4 INCH EMPTY CONDUIT TO NEAREST TELEPHONE CLOSET FACILITY.
    b. FIRE PROTECTIVE ALARM SYSTEM OUTLET BOX COMPLETE WITH CABLES FOR FIRE ALARM INITIANING AND NOTIFICATION APPLIANCES FURNISHED AS PART OF FIRE ALARM SYSTEM SCOPE OF WORK. CABLE SHALL BE RUN TO NEAREST APPROPRIATE FIRE ALARM SYSTEM EQUIPMENT CABINET AS INDICATED ON FA-xxx SERIES DRAWINGS.
    c. CLOSED CIRCUIT TV (CCTV) OUTLET BOX AT TOP OF SHAFT, COMPLETE WITH 3/4 INCH EMPTY CONDUIT EXTENSION TO CCTV JUNCTION BOX LOCATED IN ELEVATOR MACHINE ROOM.
22. PROVIDE NECESSARY TELEPHONE WIRING WITH CONNECTION TO LOCAL TELEPHONE SERVICE FOR REMOTE ELEVATOR MONITORING AND/OR TWO-WAY VOICE EMERGENCY COMMUNICATIONS SYSTEMS. ALL TELEPHONE AND WIRING IN JUNCTION BOXES OR STANDARD PHONE JACK TERMINALS IN THE MACHINE ROOM. COORDINATE THE QUANTITY AND TERMINATION METHOD OF INDIVIDUAL PHONE CONNECTIONS WITH THE ELEVATOR CONTRACTOR.
23. PROVIDE 120 VOLTS, 1 PHASE, 60 HERTZ, 15A DUPLEX OUTLET (BACKED UP BY STANDBY EMERGENCY GENERATOR) IN SECURITY OFFICE FOR ELEVATOR REMOTE MONITOR AND CONTROL STATION.
24. 120 VOLTS, 1 PHASE, 60 HERTZ, 15A DUPLEX OUTLET (ON EMERGENCY POWER CIRCUIT, IF AVAILABLE) FOR ELEVATOR REMOTE MONITOR AND CONTROL PANEL.

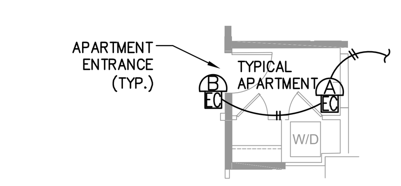
SYMBOL	DESCRIPTION	REMARKS
A EQ	24 VOLT AC WALL MOUNTED DOOR BELL SYSTEM AS MANUFACTURED BY FSB. OR APPROVED EQUIVALENT	
B EQ	PUSH BOTTON INSTALLED IN DOOR FRAME FOR 24 VOLT AC OPERATION. FSB MODEL# 3863	

NOTES:

A. ALL CONDUITS, BOXES, CONNECTIONS, ETC. SHALL BE PROVIDED AS PER SPECIFICATIONS FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY.
B. PROVIDE A COMPLETE AND WORKING SYSTEM AS DESCRIBED IN LEGEND AND SHOWN- IN WIRING DIAGRAM.
C. CONTRACTOR FOR ELECTRICAL WORK SHALL PROVIDE ALL COMPONENTS OF SYSTEM UNLESS OTHERWISE NOTED.
D. EXACT LOCATIONS OF ALL COMPONENTS TO BE DETERMINED BY ARCHITECT.
E. PROVIDE TRANSFORMER AS REQUIRED.



WIRING DIAGRAM

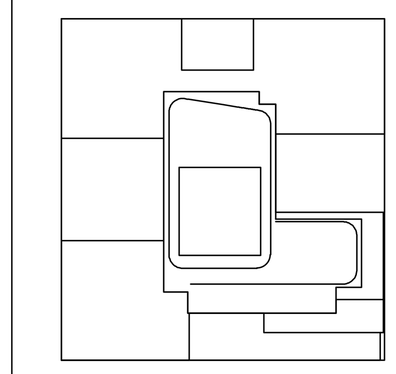


PART PLAN – TYPICAL APARTMENT/SUITE/GYM ETC.

ENTRANCE CALL SYSTEMS

NOT TO SCALE

DETAIL XXIX



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
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Project:
City View Tower at Court Square
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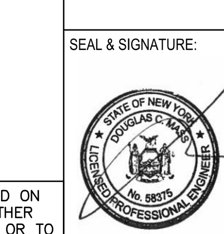
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
TYPICAL FLOOR KITCHEN LAYOUT SCHEDULE & DETAIL - SHEET #6

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
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OF

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DEPT OF BLDGS 420655954 Job Number
ES535020876 Scan Code

FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E406(TYP_FLR_KITCHEN).dwg SAVED ON 9/7/2017 5:01 PM PLOTTED ON 10/12/2017 1:31 PM PLOTTED BY VALITE, VAN

DEPT OF BLDGS 420655954 Job Number
ES235262994 Scan Code

APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **0-BEDROOM APARMENT** **TYPICAL FLOORS**
MAIN BUS RATING: 125A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP <AB>	728	1316		588	REFRIGERATOR	15	2
3			728		2228	1500	DISHWASHER	20	4
5	20/2P	CONDENSATION ELECTRIC DRYER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	BOSCH WASHER	1150	1190		40	EXHAUST PULLOUT HOOD	20	10
11			1150		2350	1200	MICROWAVE	20	12
13	20	LAUNDRY CIRCUIT	1500	1860		360	RECEPTACLES/NID BOXES	20*	14
15	20	BATHROOM RECEPTACLE (GFI)	180		540	360	LIGHTING/ SMOKE ALARM	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	1250		900	RECEPTACLES LR/BR ROOM	20*	18
19	20	SPARE	-		0	-	SPARE	20*	20
21	20	SPARE	-	0		-	SPARE	20	22
23	20	SPARE	-		0	-	SPARE	20	24
		TOTAL VA BY PHASE:		8266	7768		TOTAL CONNECTED LOAD:	16.0 KVA	77.1 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
** SEE ONE LINE RISER DIAGRAM FOR ADDITIONAL INFORMATION

APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **1-BEDROOM APARMENT** **TYPICAL FLOORS**
MAIN BUS RATING: 125A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP <AC>	936	1524		588	REFRIGERATOR	15	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	CONDENSATION ELECTRIC DRYER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	BOSCH WASHER	1150	1190		40	EXHAUST PULLOUT HOOD	20	10
11			1150		2350	1200	MICROWAVE	20	12
13	20	LAUNDRY CIRCUIT	1500	1860		360	RECEPTACLES/NID BOXES	20*	14
15	20	BATHROOM RECEPTACLE (GFI)	180		540	360	LIGHTING/ SMOKE ALARM	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	1250		900	RECEPTACLES LR ROOM	20*	18
19	20	SPARE	-		900	900	RECEPTACLES BR ROOM	20*	20
21	20	SPARE	-	0		-	SPARE	20*	22
23	20	SPARE	-		0	-	SPARE	20	24
		TOTAL VA BY PHASE:		8474	8876		TOTAL CONNECTED LOAD:	17.4 KVA	83.4 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
** SEE ONE LINE RISER DIAGRAM FOR ADDITIONAL INFORMATION

APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **2-BEDROOM APARMENT** **TYPICAL FLOORS**
MAIN BUS RATING: 150A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP	936	1524		588	REFRIGERATOR	15	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	CONDENSATION ELECTRIC DRYER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	BOSCH WASHER	1150	1190		40	EXHAUST PULLOUT HOOD	20	10
11			1150		2350	1200	MICROWAVE	20	12
13	20	LAUNDRY CIRCUIT	1500	1700		200	RECEPTACLES/NID BOXES	20*	14
15	20	BATHROOMS RECEPTACLES (GFI)	180		540	360	LIGHTING/ SMOKE ALARM	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	1250		900	RECEPTACLES LR ROOM	20*	18
19	15/2P	HEAT PUMP	728		1628	900	RECEPTACLES BR1 ROOM	20*	20
21			728	1628		900	RECEPTACLES BR2 ROOM	20*	22
23	20*	EFT BASEBOARD HEATER (***)	600		800	200	LIGHTING	20*	24
25	20	MASTER BATH HEATED SEAT REC. (GFI)	350	350		-	SPARE	20*	26
27	15/2P	HEAT PUMP (***)	728		728	-	SPARE	20*	28
29			728	728		-	SPARE	20	30
		TOTAL VA BY PHASE:		11020	11132		TOTAL CONNECTED LOAD:	22.2 KVA	106.5 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
** SEE ONE LINE RISER DIAGRAM FOR ADDITIONAL INFORMATION
*** IN SELECTED APARTMENTS AS INDICATED ON CONTRACT DOCUMENTS

APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **2+ -BEDROOM APARMENT** **TYPICAL FLOORS**
MAIN BUS RATING: 150A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP <AC>	936	1524		588	REFRIGERATOR	15	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	CONDENSATION ELECTRIC DRYER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	BOSCH WASHER	1150	1190		40	EXHAUST PULLOUT HOOD	20	10
11			1150		2350	1200	MICROWAVE	20	12
13	20	LAUNDRY CIRCUIT	1500	1700		200	RECEPTACLES/NID BOXES	20*	14
15	20	BATHROOMS RECEPTACLES (GFI)	180		540	360	LIGHTING/ SMOKE ALARM	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	1250		900	RECEPTACLES LR ROOM	20*	18
19	15/2P	HEAT PUMP <AB>	728		1628	900	RECEPTACLES BR1 ROOM	20*	20
21			728	1628		900	RECEPTACLES BR2 ROOM	20*	22
23	20*	EFT BASEBOARD HEATER (***)	600		800	200	LIGHTING	20*	24
25	20	MASTER BATH HEATED SEAT REC. (GFI)	350	950		600	EFT BASEBOARD HEATER (***)	20*	26
27	15/2P	HEAT PUMP <AA>	624		624	-	SPARE	20*	28
29			624	624		-	SPARE	20*	30
31	20	-	-		0	-	-	20	32
33	20	-	-	0		-	-	20	34
35	-	-	-		0	-	-	-	36
37	-	-	-	0		-	-	-	38
39	-	-	-		0	-	-	-	40
		TOTAL VA BY PHASE:		11516	11028		TOTAL CONNECTED LOAD:	22.5 KVA	108.4 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
** SEE ONE LINE RISER DIAGRAM FOR ADDITIONAL INFORMATION
*** IN SELECTED APARTMENTS AS INDICATED ON CONTRACT DOCUMENTS

APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **3-BEDROOM APARMENT** **TYPICAL FLOORS**
MAIN BUS RATING: 150A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP <AC>	936	1524		588	REFRIGERATOR	15	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	CONDENSATION ELECTRIC DRYER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	BOSCH WASHER	1150	1190		40	EXHAUST PULLOUT HOOD	20	10
11			1150		2350	1200	MICROWAVE	20	12
13	20	LAUNDRY CIRCUIT	1500	1700		200	RECEPTACLES/NID BOXES	20*	14
15	20	BATHROOMS RECEPTACLE (GFI)	180		540	360	LIGHTING/ SMOKE ALARM	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	1250		900	RECEPTACLES LR ROOM	20*	18
19	15/2P	HEAT PUMP <AB>	728		1628	900	RECEPTACLES BR1 ROOM	20*	20
21			728	1628		900	RECEPTACLES BR2 ROOM	20*	22
23	20*	EFT BASEBOARD HEATER (***)	600		800	200	RECEPTACLES BR3 ROOM	20*	24
25	20*	EFT BASEBOARD HEATER (***)	600	800		200	LIGHTING	20*	26
27	20	MASTER BATH HEATED SEAT REC. (GFI)	350		974	624	HEAT PUMP <AA>	15/2P	28
29	20*	SPARE	600	1224		624			30
31	20	-	-		0	-	-	20	32
33	20	-	-	0		-	-	20	34
35	-	-	-		0	-	-	-	36
37	-	-	-	0		-	-	-	38
39	-	-	-		0	-	-	-	40
		TOTAL VA BY PHASE:		11966	11378		TOTAL CONNECTED LOAD:	23.3 KVA	112.2 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
** SEE ONE LINE RISER DIAGRAM FOR ADDITIONAL INFORMATION
*** IN SELECTED APARTMENTS AS INDICATED ON CONTRACT DOCUMENTS

APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **1-BEDROOM APARMENT** **PENTHOUSES (63-66FLOOR)**
MAIN BUS RATING: 125A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP <AC>	936	1524		588	REFRIGERATOR	20	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	ELECTRIC DRYER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	SAMSUNG WASHER	1150	1190		40	EXHAUST PULLOUT HOOD	20	10
11			1150		2350	1200	MICROWAVE	20	12
13	20	LAUNDRY CIRCUIT	1500	3000		1500	WASTE-KING KITCHEN DISPOSER	20	14
15	20	BATHROOM RECEPTACLE (GFI)	180		540	360	RECEPTACLES/NID BOXES	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	710		360	LIGHTING/ SMOKE ALARM	20*	18
19	20*	EFT BASEBOARD HEATER (***)	600		1500	900	RECEPTACLES LR ROOM	20*	20
21	20	PROVISION DRYER	-	900		900	RECEPTACLES BR ROOM	20*	22
23	20	PROVISION WASHER	-		0	-	SPARE	20*	24
25	20	SPARE	-	0		-	SPARE	20	26
27	-	-	-		0	-	-	-	28
29	-	-	-	0		-	-	-	30
		TOTAL VA BY PHASE:		9974	9476		TOTAL CONNECTED LOAD:	19.5 KVA	93.5 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
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APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **2-BEDROOM APARMENT** **PENTHOUSES (63-66FLOOR)**
MAIN BUS RATING: 150A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP	936	1524		588	REFRIGERATOR	20	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	ELECTRIC DRYER	1150	2650		1500	WASTE-KING KITCHEN DISPOSER	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	SAMSUNG WASHER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	10
11			1150		1190	40	EXHAUST PULLOUT HOOD	20	12
13	20	LAUNDRY CIRCUIT	1500	2700		1200	MICROWAVE	20	14
15	20	BATHROOMS RECEPTACLES (GFI)	180		380	200	RECEPTACLES/NID BOXES	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	710		360	LIGHTING/ SMOKE ALARM	20*	18
19	15/2P	HEAT PUMP	728		1628	900	RECEPTACLES LR ROOM	20*	20
21			728	1628		900	RECEPTACLES BR1 ROOM	20*	22
23	20*	EFT BASEBOARD HEATER (***)	600		1500	900	RECEPTACLES BR2 ROOM	20*	24
25	20	MASTER BATH HEATED SEAT REC. (GFI)	350	550		200	LIGHTING	20*	26
27	15/2P	HEAT PUMP (***)	728		728	-	SPARE	20*	28
29			728	728		-	SPARE	20	30
31	20	PROVISION DRYER	-		0	-	-	-	32
33	20	PROVISION WASHER	-	0		-	-	-	34
35	20	SPARE	-		0	-	-	-	36
37	-	-	-	0		-	-	-	38
39	-	-	-		0	-	-	-	40
		TOTAL VA BY PHASE:		13140	10512		TOTAL CONNECTED LOAD:	23.7 KVA	113.7 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
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APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **3-BEDROOM APARMENT** **PENTHOUSES (63-66FLOOR)**
MAIN BUS RATING: 150A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP	936	1524		588	REFRIGERATOR	20	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	ELECTRIC DRYER	1150	2650		1500	WASTE-KING KITCHEN DISPOSER	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	SAMSUNG WASHER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	10
11			1150		1190	40	EXHAUST PULLOUT HOOD	20	12
13	20	LAUNDRY CIRCUIT	1500	2700		1200	MICROWAVE	20	14
15	20	BATHROOMS RECEPTACLE (GFI)	180		380	200	RECEPTACLES/NID BOXES	20*	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	710		360	LIGHTING/ SMOKE ALARM	20*	18
19	15/2P	HEAT PUMP	728		1628	900	RECEPTACLES LR ROOM	20*	20
21			728	1628		900	RECEPTACLES BR1 ROOM	20*	22
23	20*	EFT BASEBOARD HEATER (***)	600		1500	900	RECEPTACLES BR2 ROOM	20*	24
25	20*	EFT BASEBOARD HEATER (***)	600	800		200	RECEPTACLES BR3 ROOM	20*	26
27	20	MASTER BATH HEATED SEAT REC. (GFI)	350		550	200	LIGHTING	20*	28
29	20*	SPARE	600	1328		728	HEAT PUMP	15/2P	30
31	20	PROVISION DRYER	-		728	728			32
33	20	PROVISION WASHER	-	0		-	-	20*	34
35	20	SPARE	-		0	-	-	20*	36
37	-	-	-	0		-	-	-	38
39	-	-	-		0	-	-	-	40
		TOTAL VA BY PHASE:		13990	11062		TOTAL CONNECTED LOAD:	25.1 KVA	120.4 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
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APT PANELLETTE SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 1φ WIRES: 3+G — PANEL DESIGNATION: **4-BEDROOM APARMENT** **PENTHOUSES (63-66FLOOR)**
MAIN BUS RATING: 200A **
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	15/2P	HEAT PUMP	936	1524		588	REFRIGERATOR	20	2
3			936		2436	1500	DISHWASHER	20	4
5	20/2P	ELECTRIC DRYER	1150	2650		1500	WASTE-KING KITCHEN DISPOSER	20	6
7			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	8
9	20/2P	SAMSUNG WASHER	1150	2650		1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	10
11			1150		2650	1500	KITCHEN COUNTER RECEPTACLES (GFI)	20	12
13	20	LAUNDRY CIRCUIT	1500	1540		40	EXHAUST PULLOUT HOOD	20	14
15	20	BATHROOMS RECEPTACLEs (GFI)	180		1380	1200	MICROWAVE	20	16
17	20	BATHROOM HEATED SEAT RECEPT (GFI)	350	550		200	RECEPTACLES/NID BOXES	20*	18
19	15/2P	HEAT PUMP <AB>	728		1088	360	LIGHTING/ SMOKE ALARM	20*	20
21			728	1628		900	RECEPTACLES LR ROOM	20*	22
23	20*	EFT BASEBOARD HEATER (***)	600		1500	900	RECEPTACLES BR1 ROOM	20*	24
25	20*	EFT BASEBOARD HEATER (***)	600	1500		900	RECEPTACLES BR2 ROOM	20*	26
27	20	MASTER BATH HEATED SEAT REC. (GFI)	350		1250	900	RECEPTACLES BR3 ROOM	20*	28
29	20	PROVISION DRYER	-	900		900	RECEPTACLES BR4 ROOM	20*	30
31	20	PROVISION WASHER	-		200	200	LIGHTING	20*	32
33	20*	SPARE	-	624		624	HEAT PUMP	15/2P	34
35	20	-	-		624	624			36
37	20	-	-	624		624	HEAT PUMP	15/2P	38
39	20	-	-		624	624			40
		TOTAL VA BY PHASE:		14190	14402		TOTAL CONNECTED LOAD:	28.6 KVA	137.5 AMPS

* ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (LIGHTS AND RECEPTACLES) INSTALLED IN DWELLING UNITS (FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
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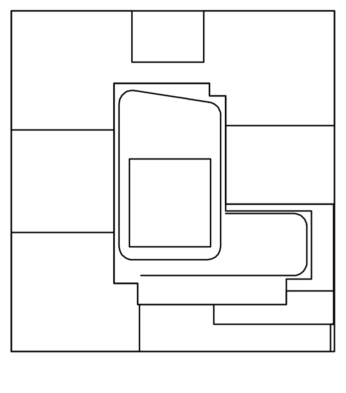

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

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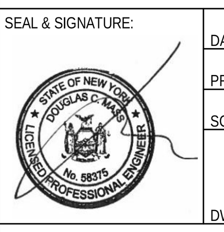
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #7

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 15031B
SCALE: NONE
E-407.00
DWG NO.
000F

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

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

FILE NAME I:\15031B_Outgoing\2017-10-12 update DOB set\electrical\15031BE407.dwg SAVED ON 7/5/2017 3:05 PM PLOTTED ON 10/12/2017 2:15 PM PLOTTED BY VALITE, VAN

DEPT OF BLDGS 420655954 Job Number
ES168091543 Scan Code

MINI CLOSET SCHEDULE

MINI CLOSET PANEL DESIGNATION	SUPPLY CHARACTERISTICS: VOLTS	PHASE	WIRE	MAINS: BUS SIZE (AMPS)	LUGS ONLY	OVER-CURRENT AMPS: FRAME AMPS	TRIP AMPS	QUANTITY OF BRANCH DEVICES: SIZE (AMPS)	SINGLE POLE: ACTIVE	SPARE	TOTAL	TWO POLE: ACTIVE	SPARE	TOTAL	THREE POLE: ACTIVE	SPARE	TOTAL	F- FLUSH MOUNTING S - SURFACE	GENERAL DESCRIPTION OF LOAD
MC3S	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC6S	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30											
								100				28		28					
								125											
								150											
								200											
MC3N	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC6N	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30											
								100				31		31					
								125											
								150											
								200											
MC9	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC12	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC15	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC18	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC21	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC24	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC27	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30											
								100				36		36					
								125											
								150											
								200											
MC30	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC33	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC37	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC40	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC43	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC46	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC49	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC52	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC55	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC58	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				36		36					
								125											
								150											
								200											
MC61	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							2		2		
								100				32		32					
								125											
								150											
								200											
MC64	208/120	3	4	1,200	-	1,200	MCB	20		1	1							S	ALL APT LOADS SHALL BE SUBMETERED SEE DETAIL XXIII ON E-405
								30							1		1		
								100				27		27					
								125											
								150											
								200											

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION — PANEL DESIGNATION: **DPHE-C-EL**
MOUNTING: SURFACE
SUPPLY CHARACTERISTICS: VOLTS: 480 PHASE: 3φ WIRES: 3+G
MAIN BUS RATING: 600A — NEUTRAL: FULL
MAIN PROTECTIVE DEVICE: MLO — USAGE: ELEVATORS

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE: SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	400	250	3	ELEVATOR 'FE8' (1)	79674	Hydraulic 60hP
2	400	250	3	ELEVATOR 'FE9' (2)	79674	Hydraulic 60hP
4	400	225	3	ELEVATOR 'FE10' (3)	74097	Hydraulic 50hP
5	30	30	3	CONTROLER	8640	
6	30	30	3	RELAY	8640	
7	60	50	3	APE-C-ELEV	12030	VIA 30 KVA T/F
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	
				TOTAL LOAD: 226 KVA	272	AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION — PANEL DESIGNATION: **DPHE-37-EL**
MOUNTING: SURFACE
SUPPLY CHARACTERISTICS: VOLTS: 480 PHASE: 3φ WIRES: 3+G
MAIN BUS RATING: 400A — NEUTRAL: FULL
MAIN PROTECTIVE DEVICE: 400A — USAGE: ELEVATORS

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE: SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200	125	3	ELEVATOR 'PE1' (1)	71707	70hP
2	200	125	3	ELEVATOR 'PE2' (2)	71707	70hP
4	200	125	3	ELEVATOR 'PE3' (3)	71707	70hP
5	30	30	3	CONTROLER	8640	
6	30	30	3	RELAY	8640	
7	60	50	3	APE-37-ELEV	12030	A 30 KVA T/F
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	
				TOTAL LOAD: 244 KVA	294	AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION — PANEL DESIGNATION: **DPHE-69-EL**
MOUNTING: SURFACE
SUPPLY CHARACTERISTICS: VOLTS: 480 PHASE: 3φ WIRES: 3+G
MAIN BUS RATING: 600A — NEUTRAL: FULL
MAIN PROTECTIVE DEVICE: 600A — USAGE: ELEVATORS

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE: SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200	150	3	ELEVATOR 'PE5' (1)	81268	80hP
2	200	150	3	ELEVATOR 'PE6' (2)	81268	80hP
4	200	150	3	ELEVATOR 'PE7' (3)	81268	80hP
5	200	200	3	ELEVATOR 'SE4' (4)	101983	100hP
6	30	30	3	CONTROLER	8640	
7	30	30	3	RELAY	8640	
8	60	50	3	APE-69-ELEV	24000	VIA 30 KVA T/F
9	60	-	3	SPARE	-	
	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	
				TOTAL LOAD: 387 KVA	466	AMPS

POWER AND DISTRIBUTION PANEL SCHEDULE

PANEL TYPE : DISTRIBUTION — PANEL DESIGNATION: **DPHE-RLS**
MOUNTING: SURFACE
SUPPLY CHARACTERISTICS: VOLTS: 480 PHASE: 3φ WIRES: 3+G
MAIN BUS RATING: 600A — NEUTRAL: FULL
MAIN PROTECTIVE DEVICE: MLO — USAGE: ELEVATORS

CIRC # - FEEDER CONTROLLED	BRANCH DEVICE: SWITCH	FUSE	POLES "N" - NEUTRAL BAR CONN.	EQUIPMENT SERVED	LOAD (VA)	NOTES
1	200	150	3	APE-RLS	-	VIA 45kVA T/F
2	200	200	3	SPARE	-	
4	200	200	3	SPARE	-	
5	30	30	3	SPARE	-	
6	30	30	3	SPARE	-	
7	60	50	3	SPARE	-	
8	60	-	3	SPARE	-	
9	60	-	3	SPARE	-	
10	60	-	3	SPARE	-	
				TOTAL LOAD: 0 KVA		

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G — PANEL DESIGNATION: **APE-C-EL**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	ELEVATOR 'FE8' TRAIL CABLE <ETC>	1000	2500			1500	ELEVATOR 'FE10' TRAIL CABLE <ETC>	20	2
3	20	ELEVATOR 'FE8' CAR LIGHTING <ELP>	500		2000		1500	ELEVATOR 'FE10' CAR LIGHTING <ELP>	20	4
5	20	ELEVATOR 'FE8' SIGNA L& INTERCOM <EIN>	1000			2500	1500	ELEVATOR 'FE10' SIGNA L& INTERCOM <EIN>	20	6
7	20	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	500	2000			1500	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	20	8
9	30/3	SPARE	-		1500		1500	SPARE	30/3	10
11			-			1500	1500			12
13			-	0			-			14
15	20	ELEVATOR 'FE9' TRAIL CABLE <ETC>	1000		1000		-	SPARE	20	16
17	20	ELEVATOR 'FE9' CAR LIGHTING <ELP>	500			500	-	SPARE	20	18
19	20	ELEVATOR 'FE9' SIGNA L& INTERCOM <EIN>	1000	1000			-	SPARE	20	20
21	20	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	500		500		-	SPARE	20	22
23	30/3	SPARE	-			0	-	SPARE	20	24
25			-	0			-	SPARE	20	26
27			-		0		-	SPARE	20	28
29	20	SPARE	-			0	-	SPARE	20	30
		TOTAL VA BY PHASE:		5500	5000	4500		TOTAL CONNECTED LOAD:	15.0 KVA / 41.6 AMPS	

PANEL SCHEDULE

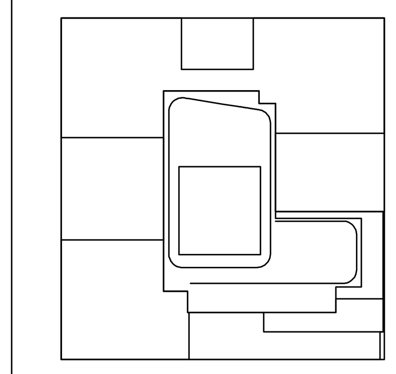
SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G — PANEL DESIGNATION: **APE-37-EL**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	ELEVATOR 'PE1' TRAIL CABLE <ETC>	1000	2500			1500	ELEVATOR 'PE3' TRAIL CABLE <ETC>	20	2
3	20	ELEVATOR 'PE1' CAR LIGHTING <ELP>	500		2000		1500	ELEVATOR 'PE3' CAR LIGHTING <ELP>	20	4
5	20	ELEVATOR 'PE1' SIGNA L& INTERCOM <EIN>	1000			2500	1500	ELEVATOR 'PE3' SIGNA L& INTERCOM <EIN>	20	6
7	20	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	500	2000			1500	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	20	8
9	30/3	SPARE	-		1500		1500	SPARE	30/3	10
11			-			1500	1500			12
13			-	0			-			14
15	20	ELEVATOR 'PE2' TRAIL CABLE <ETC>	1000		1000		-	SPARE	20	16
17	20	ELEVATOR 'PE2' CAR LIGHTING <ELP>	500			500	-	SPARE	20	18
19	20	ELEVATOR 'PE2' SIGNA L& INTERCOM <EIN>	1000	1000			-	SPARE	20	20
21	20	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	500		500		-	SPARE	20	22
23	30/3	SPARE	-			0	-	SPARE	20	24
25			-	0			-	SPARE	20	26
27			-		0		-	SPARE	20	28
29	20	SPARE	-			0	-	SPARE	20	30
		TOTAL VA BY PHASE:		5500	5000	4500		TOTAL CONNECTED LOAD:	15.0 KVA / 41.6 AMPS	

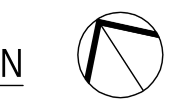
PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G — PANEL DESIGNATION: **APE-69-EL**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	ELEVATOR 'PE5' TRAIL CABLE <ETC>	1000	2500			1500	ELEVATOR 'PE7' TRAIL CABLE <ETC>	20	2
3	20	ELEVATOR 'PE5' CAR LIGHTING <ELP>	500		2000		1500	ELEVATOR 'PE7' CAR LIGHTING <ELP>	20	4
5	20	ELEVATOR 'PE5' SIGNA L& INTERCOM <EIN>	1000			2500	1500	ELEVATOR 'PE7' SIGNA L& INTERCOM <EIN>	20	6
7	20	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	500	2000			1500	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	20	8
9	30/3	SPARE	-		1500		1500	SPARE	30/3	10
11			-			1500	1500			12
13			-	0			-			14
15	20	ELEVATOR 'PE7' TRAIL CABLE <ETC>	1000		2500		1500	ELEVATOR 'SE4' TRAIL CABLE <ETC>	20	16
17	20	ELEVATOR 'PE7' CAR LIGHTING <ELP>	500			2000	1500	ELEVATOR 'SE4' CAR LIGHTING <ELP>	20	18
19	20	ELEVATOR 'PE7' SIGNA L& INTERCOM <EIN>	1000	2500			1500	ELEVATOR 'SE4' SIGNA L& INTERCOM <EIN>	20	20
21	20	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	500		2000		1500	ELEVATOR INDIVIDUAL CONTROLLER <EIC>	20	22
23	30/3	SPARE	-			1500	1500	SPARE	30/3	24
25			-	1500			1500			26
27			-		0		-			28
29	20	SPARE	-			0	-	SPARE	20	30
31	20	SPARE	-	0			-	SPARE	20	32
33	20	SPARE	-		0		-	SPARE	20	34
35	20	SPARE	-			0	-	SPARE	20	36
		TOTAL VA BY PHASE:		8500	8000	7500		TOTAL CONNECTED LOAD:	24.0 KVA / 66.6 AMPS	



KEY PLAN



NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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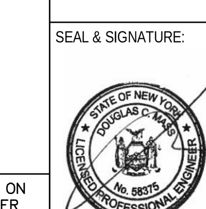
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #8

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-408.00
DWG NO.

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FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E408.dwg SAVED ON 9/15/2017 3:12 PM PLOTTED ON 10/12/2017 2:15 PM PLOTTED BY VALITE, VAN

DEPT OF BLDGS 420655954 Job Number
ES365308703 Scan Code

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-C (SECTION I)**
MAIN BUS RATING: 225A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 150A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-C (SECTION II)**
MAIN BUS RATING: 225A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
43	20			0					20	44
45	20				0				20	46
47	20					0			20	48
49	20			0					20	50
51	20				0				20	52
53	20					0			20	54
55	20			0					20	56
57	20				0				20	58
59	20					0			20	60
61	20			0					20	62
63	20				0				20	64
65	20					0			20	66
67	20			0					20	68
69	20				0				20	70
71	20					0			20	72
73	20			0					20	74
75	20				0				20	76
77	20					0			20	78
79	20			0					20	80
81	20				0				20	82
83	20					0			20	84
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA	0.0 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-1**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA	0.0 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-POOL**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA	0.0 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-L**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: MLO

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA	0.0 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-T**
MAIN BUS RATING: 400A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 225A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA	0.0 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-GAR**
MAIN BUS RATING: 400A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 250A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA	0.0 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-3**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA	0.0 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-10**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY (NORTH) 4FL	500	500				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 4FL	600		600			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY (NORTH) 5FL	600			600		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 5FL	550	550				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY (NORTH) 6FL	600		600			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 6FL	550			550		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY/EXIT SIGN 7FL	500	500				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 8FL	350		350			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY9FL	350			350		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 10FL	350	350				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY 11FL	350		350			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY 12FL	350			350		SPARE	20	24
25	20	LIGHTING CORR/ELEV LOBBY 13FL	350	350				SPARE	20	26
27	20	LIGHTING CORR/ELEV LOBBY 14FL	350		350			SPARE	20	28
29	20	LIGHTING CORR/ELEV LOBBY 15FL	350			350		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	2250	2250	2200		TOTAL CONNECTED LOAD:	6.7 KVA	18.6 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-17**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 16FL	350	350				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 17FL	350		350			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 18FL	350			350		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 19FL	350	350				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	700	350	350		TOTAL CONNECTED LOAD:	1.4 KVA	3.9 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-24**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 20FL	350	350				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 21FL	350		350			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 22FL	350			350		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 23FL	350	350				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY 24FL	350		350			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY 25FL	350			350		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 26FL	350	350				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 27FL	350		350			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 28FL	350			350		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1050	1050	1050		TOTAL CONNECTED LOAD:	3.2 KVA	8.7 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-31**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 29FL	350	350				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 30FL	350		350			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 31FL	350			350		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 32FL	350	350				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY 33FL	350		350			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY 34FL	350			350		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 35FL	350	350				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1050	700	700		TOTAL CONNECTED LOAD:	2.5 KVA	6.8 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-38**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORRIDOR 36FL (MECH)	350	350				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 37FL (NORTH)	300		300			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 37FL (SOUTH)	100			100		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 38FL (NORTH)	300	300				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY 39FL (NORTH)	300		300			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY 40FL (NORTH)	300			300		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 41FL (NORTH)	300	300				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 42FL (NORTH)	300		300			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 39FL (SOUTH)	100			100		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 40FL (SOUTH)	100	100				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY 41FL (SOUTH)	100		100			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY 42FL (SOUTH)	100			100		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1050	1000	600		TOTAL CONNECTED LOAD:	2.7 KVA	7.4 AMPS

PANEL SCHEDULE

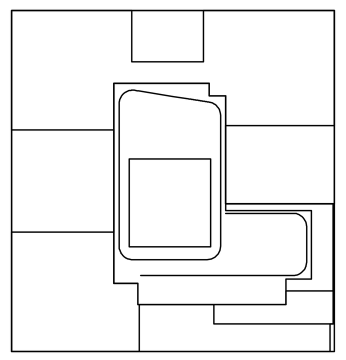
SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-46**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 43FL (NORTH)	300	300				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 44FL (NORTH)	300		300			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 45FL (NORTH)	300			300		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 46FL (NORTH)	300	300				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY 47FL (NORTH)	300		300			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY 48FL (NORTH)	300			300		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 49FL (NORTH)	300	300				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 43FL (SOUTH)	100		100			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 44FL (SOUTH)	100			100		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 45FL (SOUTH)	100	100				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY 46FL (SOUTH)	100		100			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY 47FL (SOUTH)	100			100		SPARE	20	24
25	20	LIGHTING CORR/ELEV LOBBY 48FL (SOUTH)	100	100				SPARE	20	26
27	20	LIGHTING CORR/ELEV LOBBY 49FL (SOUTH)	100		100			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1100	900	800		TOTAL CONNECTED LOAD:	2.8 KVA	7.8 AMPS

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
PANEL DESIGNATION: **AP-52**
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 50FL (NORTH)	300	300				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 51FL (NORTH)	300		300			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 52FL (NORTH)	300			300		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 53FL (NORTH)	300	300				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY 54FL (NORTH)	300		300			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY 55FL (NORTH)	300			300		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 50FL (SOUTH)	100	100				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 51FL (SOUTH)	100		100			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 52FL (SOUTH)	100			100		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 53FL (SOUTH)	100	100				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY 54FL (SOUTH)	100		100			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY 55FL (SOUTH)	100			100		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	800	800	800		TOTAL CONNECTED LOAD:	2.4 KVA	6.7 AMPS



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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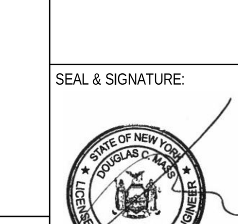
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #9

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-409.00
DWG NO.
OF

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FILE NAME I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E409.dwg SAVED ON 9/15/2017 4:50 PM PLOTTED ON 10/12/2017 2:14 PM PLOTTED BY VALITE, VAN

DEPT OF BLDGS 420655954 Job Number
ES118834502 Scan Code

PANEL SCHEDULE

SUPPLY CHARACTERISTICS:			VOLTS:	120/208	PHASE:	3φ	WIRES:	4+G	PANEL DESIGNATION:	
MAIN BUS RATING:		100A W.EQP. GR. BUS							AP-64	
MAIN PROTECTIVE DEVICE:		100A								
CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 61FL (NORTH)	250	1330			1080	RECEPTACLES 66 FLOOR	20	2
3	20	LIGHTING CORR/ELEV LOBBY 61FL (SOUTH)	100		1180		1080	RECEPTACLES 65 FLOOR	20	4
5	20	LIGHTING CORR/ELEV LOBBY 62FL (NORTH)	250			1330	1080	RECEPTACLES 64 FLOOR	20	6
7	20	LIGHTING CORR/ELEV LOBBY 63FL (NORTH)	250	1330			1080	RECEPTACLES 63 FLOOR	20	8
9	20	LIGHTING CORR/ELEV LOBBY 64FL (NORTH)	250		1330		1080	RECEPTACLES 62 FLOOR	20	10
11	20	LIGHTING CORR/ELEV LOBBY 65FL (NORTH)	250			1330	1080	RECEPTACLES 61 FLOOR	20	12
13	20	LIGHTING CORR/ELEV LOBBY 66FL (NORTH)	250	250				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 62FL (SOUTH)	300		300			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 63FL (SOUTH)	300			300		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 64FL (SOUTH)	300	300				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY 65FL (SOUTH)	300		300			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY 66FL (SOUTH)	300			300		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
			TOTAL VA BY PHASE:	3210	3110	3260	TOTAL CONNECTED LOAD:		9.6 KVA 26.6 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS:			VOLTS:	120/208	PHASE:	3φ	WIRES:	4+G	PANEL DESIGNATION:	
MAIN BUS RATING:		100A W.EQP. GR. BUS							AP-58	
MAIN PROTECTIVE DEVICE:		100A								
CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 56FL (NORTH)	300	1380			1080	RECEPTACLES 60 FLOOR	20	2
3	20	LIGHTING CORR/ELEV LOBBY 57FL (NORTH)	300		1380		1080	RECEPTACLES 59 FLOOR	20	4
5	20	LIGHTING CORR/ELEV LOBBY 58FL (NORTH)	300			1380	1080	RECEPTACLES 58 FLOOR	20	6
7	20	LIGHTING CORR/ELEV LOBBY 59FL (NORTH)	300	1380			1080	RECEPTACLES 57 FLOOR	20	8
9	20	LIGHTING CORR/ELEV LOBBY 60FL (NORTH)	300		1380		1080	RECEPTACLES 56 FLOOR	20	10
11	20	LIGHTING CORR/ELEV LOBBY 56FL (SOUTH)	100			100		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 57FL (SOUTH)	100	100				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 58FL (SOUTH)	100		100			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 59FL (SOUTH)	100			100		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 60FL (SOUTH)	100	100				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
			TOTAL VA BY PHASE:	2960	2860	1580	TOTAL CONNECTED LOAD:		7.4 KVA 20.5 AMPS	

PANEL SCHEDULE

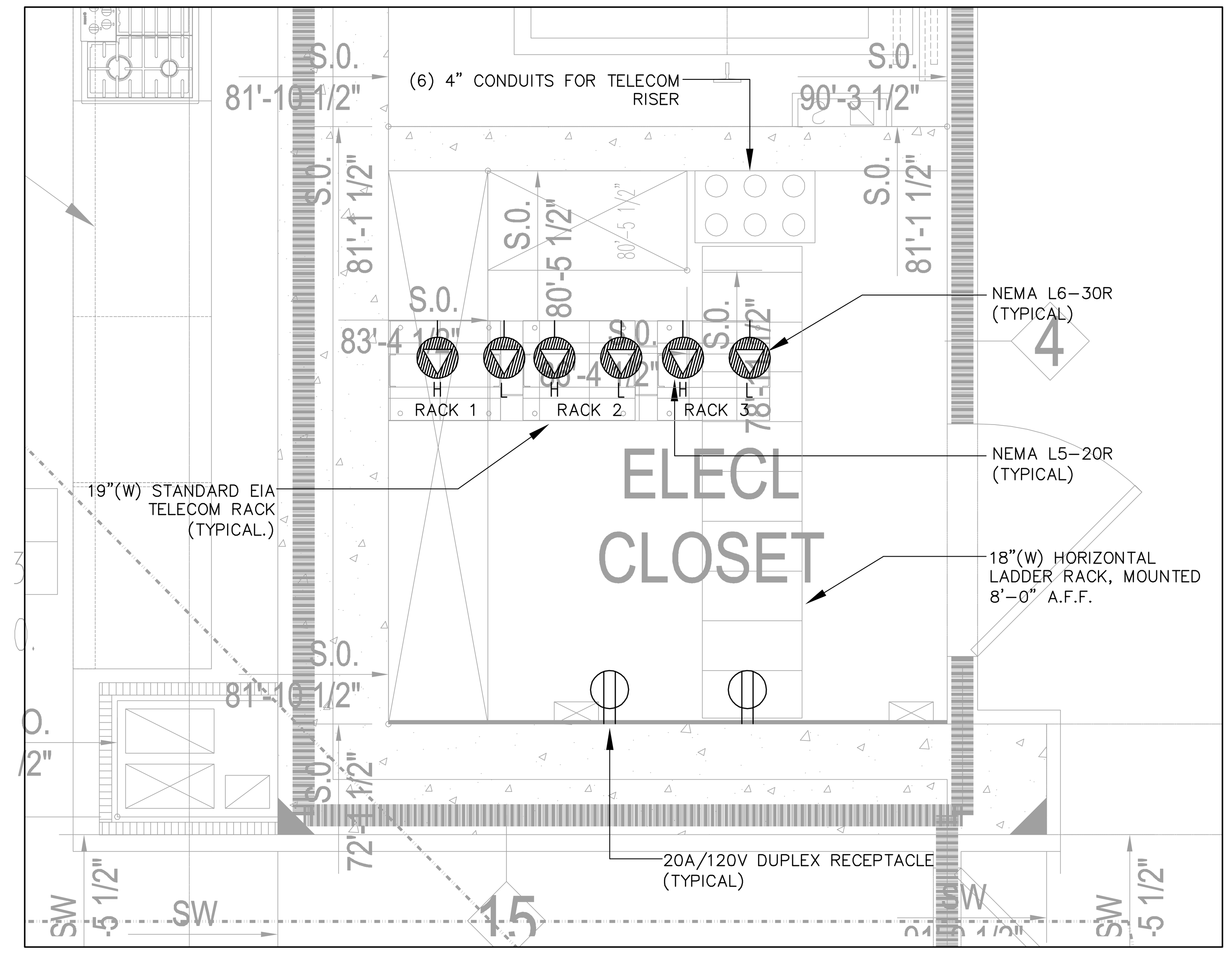
SUPPLY CHARACTERISTICS:			VOLTS:	120/208	PHASE:	3φ	WIRES:	4+G	PANEL DESIGNATION:	
MAIN BUS RATING:		225A W.EQP. GR. BUS							AP-67 (SECTION I)	
MAIN PROTECTIVE DEVICE:		150A								
CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42

PANEL SCHEDULE

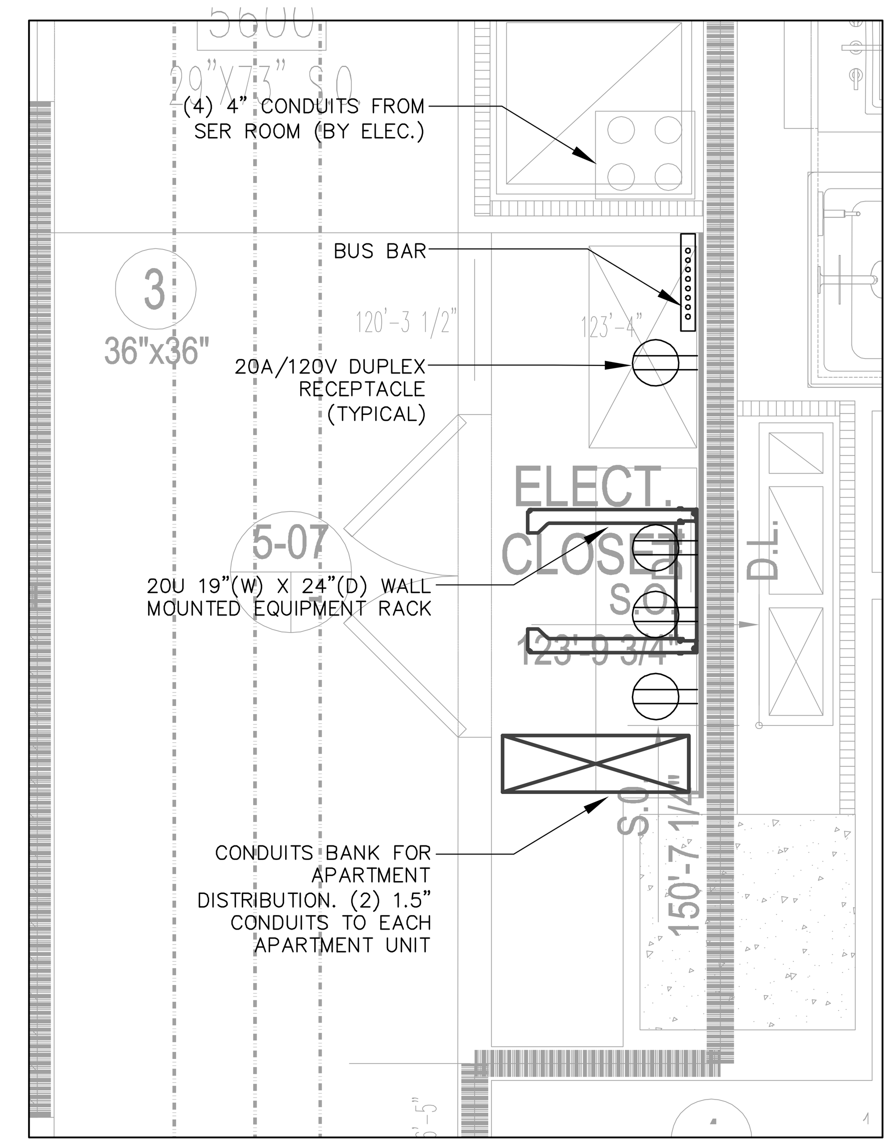
SUPPLY CHARACTERISTICS:			VOLTS:	120/208	PHASE:	3φ	WIRES:	4+G	PANEL DESIGNATION:	
MAIN BUS RATING:		225A W.EQP. GR. BUS							AP-67 (SECTION II)	
MAIN PROTECTIVE DEVICE:		MLO								
CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
43	20			0					20	44
45	20				0				20	46
47	20					0			20	48
49	20			0					20	50
51	20				0				20	52
53	20					0			20	54
55	20			0					20	56
57	20				0				20	58
59	20					0			20	60
61	20			0					20	62
63	20				0				20	64
65	20					0			20	66
67	20			0					20	68
69	20				0				20	70
71	20					0			20	72
73	20			0					20	74
75	20				0				20	76
77	20					0			20	78
79	20			0					20	80
81	20				0				20	82
83	20					0			20	84
			TOTAL VA BY PHASE:	0	0	0	TOTAL CONNECTED LOAD:		0.0 KVA 0.0 AMPS	

PANEL SCHEDULE

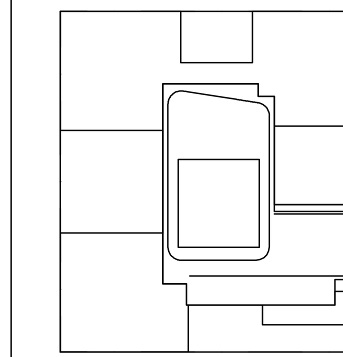
SUPPLY CHARACTERISTICS:			VOLTS:	120/208	PHASE:	3φ	WIRES:	4+G	PANEL DESIGNATION:	
MAIN BUS RATING:		100A W.EQP. GR. BUS							AP-R	
MAIN PROTECTIVE DEVICE:		100A								
CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0	TOTAL CONNECTED LOAD:		0.0 KVA 0.0 AMPS	



A — TYPICAL IDF/ELECTRICAL ROOM PART PLAN
SCALE: 3/4"=1'-0"



B — TYPICAL IDF/ELECTRICAL CLOSET PART PLAN
SCALE: 3/4"=1'-0"



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #10

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-410.00
DWG NO.
OF

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FILE NAME I:\15031R_Outgoing\2017-10-12 update DOB set\electrical\15031RE410.dwg SAVED ON 10/12/2017 2:12 PM PLOTTED ON 10/12/2017 2:13 PM PLOTTED BY VALITE, VAN

DEPT OF BLDGS 420655954 Job Number   ES701061007 Scan Code

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 400A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 225A
PANEL DESIGNATION: **APE-C-LS**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA / 0.0 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-51LS**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY (NORTH) 47FL	250	250				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY (NORTH) 48FL	250		250			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY (NORTH) 49FL	250			250		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 47FL	300	300				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 48FL	300		300			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 49FL	300			300		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY (NORTH) 50FL	250	250				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY (NORTH) 51FL	250		250			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY (NORTH) 52FL	250			250		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY (NORTH) 53FL	250	250				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY (NORTH) 54FL	250		250			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY (NORTH) 55FL	250			250		SPARE	20	24
25	20	LIGHTING CORR/ELEV LOBBY (NORTH) 56FL	250	250				SPARE	20	26
27	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 50FL	300		300			SPARE	20	28
29	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 51FL	300			300		SPARE	20	30
31	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 52FL	300	300				SPARE	20	32
33	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 53FL	300		300			SPARE	20	34
35	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 54FL	300			300		SPARE	20	36
37	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 55FL	300	300				SPARE	20	38
39	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 56FL	300		300			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1900	1950	1650		TOTAL CONNECTED LOAD:	5.5 KVA / 15.3 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 400A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 250A
PANEL DESIGNATION: **AP-R1 (ROOF)**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 67FL	300	300				SPARE	20	2
3	20	LIGHTING CORRIDOR (MECH MAIN ROOF)	200		200			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	300	200	0		TOTAL CONNECTED LOAD:	0.5 KVA / 1.4 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-9LS**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY (NORTH) 4 FL	300	300				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 4 FL	300		300			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY (NORTH) 5 FL	400			400		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 5 FL	350	350				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY (NORTH) 6 FL	350		350			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 6 FL	350			350		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 7 FL	300	300				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 8 FL	500		500			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 9 FL	500			500		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 10 FL	500	500				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY 11 FL	500		500			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY 12 FL	500			500		SPARE	20	24
25	20	LIGHTING CORR/ELEV LOBBY 13 FL	500	500				SPARE	20	26
27	20	LIGHTING CORR/ELEV LOBBY 14 FL	500		500			SPARE	20	28
29	20	LIGHTING CORR/ELEV LOBBY 15FL	500			500		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1950	2150	2250		TOTAL CONNECTED LOAD:	6.4 KVA / 17.6 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-61LS**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY (NORTH) 57FL	300	300				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY (NORTH) 58FL	300		300			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY (NORTH) 59FL	300			300		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY (NORTH) 60FL	300	300				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 57FL	300		300			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 58FL	300			300		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 59FL	300	300				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 60FL	300		300			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY (NORTH) 61FL	250			250		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 61FL	100	100				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY (NORTH) 62FL	250		250			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY (NORTH) 63FL	250			250		SPARE	20	24
25	20	LIGHTING CORR/ELEV LOBBY (NORTH) 64FL	250	250				SPARE	20	26
27	20	LIGHTING CORR/ELEV LOBBY (NORTH) 65FL	250		250			SPARE	20	28
29	20	LIGHTING CORR/ELEV LOBBY (NORTH) 66FL	250			250		SPARE	20	30
31	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 62FL	250	250				SPARE	20	32
33	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 63FL	250		250			SPARE	20	34
35	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 64FL	250			250		SPARE	20	36
37	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 65FL	250	250				SPARE	20	38
39	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 66FL	250					SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1750	1650	1600		TOTAL CONNECTED LOAD:	5.3 KVA / 14.6 AMPS	

PANEL SCHEDULE — LOCATION: CELLAR

MOUNTING: SURFACE
SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4
MAIN BUS RATING: 200A
MAIN PROTECTIVE DEVICE: 150A
PANEL DESIGNATION: **APE-T**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE	-	0			-	SPARE	20	2
3	20	SPARE	-		0		-	SPARE	20	4
5	20	SPARE	-			0	-	SPARE	20	6
7	20	SPARE	-	0			-	SPARE	20	8
9	20	SPARE	-		0		-	SPARE	20	10
11	20	SPARE	-			0	-	SPARE	20	12
13	20	SPARE	-	0			-	SPARE	20	14
15	20	SPARE	-		0		-	SPARE	20	16
17	20	SPARE	-			0	-	SPARE	20	18
19	20	SPARE	-	0			-	SPARE	20	20
21	20	SPARE	-		0		-	SPARE	20	22
23	20	SPARE	-			0	-	SPARE	20	24
25	20	SPARE	-	0			-	SPARE	20	26
27	20	SPARE	-		0		-	SPARE	20	28
29	20	SPARE	-			0	-	SPARE	20	30
31	20	SPARE	-	0			-	SPARE	20	32
33	20	SPARE	-		0		-	SPARE	20	34
35	20	SPARE	-			0	-	SPARE	20	36
37	20	SPARE	-	0			-	SPARE	20	38
39	20	SPARE	-		0		-	SPARE	20	40
41	20	SPARE	-			0	-	SPARE	20	42
	TOTAL DEMAND LOAD:	0.0 KVA / 0.0 AMPS	TOTAL VA BY PHASE	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA / 0.0 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-21LS**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 16FL	500	500				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 17FL	500		500			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 18FL	500			500		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 19FL	500	500				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY 20FL	500		500			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY 21FL	500			500		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 22FL	500	500				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 23FL	500		500			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 24FL	500			500		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY 25FL	500	500				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY 26FL	500		500			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY 27FL	500			500		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	2000	2000	2000		TOTAL CONNECTED LOAD:	6.0 KVA / 16.7 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-RLS (ROOF)**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORRIDOR (ROOF MECH. SPACE)	300	300				SPARE	20	2
3	20	LIGHTING CORRIDOR (ROOF MECH. SPACE)	250		250			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
			TOTAL VA BY PHASE:	300	250	0		TOTAL CONNECTED LOAD:	0.6 KVA / 1.5 AMPS	

PANEL SCHEDULE — LOCATION: 36TH FL

MOUNTING: SURFACE
SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4
MAIN BUS RATING: 200A
MAIN PROTECTIVE DEVICE: 150A
PANEL DESIGNATION: **APE-36**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE	-	0			-	SPARE	20	2
3	20	SPARE	-		0		-	SPARE	20	4
5	20	SPARE	-			0	-	SPARE	20	6
7	20	SPARE	-	0			-	SPARE	20	8
9	20	SPARE	-		0		-	SPARE	20	10
11	20	SPARE	-			0	-	SPARE	20	12
13	20	SPARE	-	0			-	SPARE	20	14
15	20	SPARE	-		0		-	SPARE	20	16
17	20	SPARE	-			0	-	SPARE	20	18
19	20	SPARE	-	0			-	SPARE	20	20
21	20	SPARE	-		0		-	SPARE	20	22
23	20	SPARE	-			0	-	SPARE	20	24
25	20	SPARE	-	0			-	SPARE	20	26
27	20	SPARE	-		0		-	SPARE	20	28
29	20	SPARE	-			0	-	SPARE	20	30
31	20	SPARE	-	0			-	SPARE	20	32
33	20	SPARE	-		0		-	SPARE	20	34
35	20	SPARE	-			0	-	SPARE	20	36
37	20	SPARE	-	0			-	SPARE	20	38
39	20	SPARE	-		0		-	SPARE	20	40
41	20	SPARE	-			0	-	SPARE	20	42
	TOTAL DEMAND LOAD:	0.0 KVA / 0.0 AMPS	TOTAL VA BY PHASE	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA / 0.0 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-33LS**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY 28FL	500	500				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY 29FL	500		500			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY 30FL	500			500		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY 31FL	500	500				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY 32FL	500		500			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY 33FL	500			500		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY 34FL	500	500				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY 35FL	500		500			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY 36FL	350			350		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	1500	1500	1350		TOTAL CONNECTED LOAD:	4.4 KVA / 12.1 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-C**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA / 0.0 AMPS	

PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 400A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 250A
PANEL DESIGNATION: **AP-36**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	SPARE		0				SPARE	20	2
3	20	SPARE			0			SPARE	20	4
5	20	SPARE				0		SPARE	20	6
7	20	SPARE		0				SPARE	20	8
9	20	SPARE			0			SPARE	20	10
11	20	SPARE				0		SPARE	20	12
13	20	SPARE		0				SPARE	20	14
15	20	SPARE			0			SPARE	20	16
17	20	SPARE				0		SPARE	20	18
19	20	SPARE		0				SPARE	20	20
21	20	SPARE			0			SPARE	20	22
23	20	SPARE				0		SPARE	20	24
25	20	SPARE		0				SPARE	20	26
27	20	SPARE			0			SPARE	20	28
29	20	SPARE				0		SPARE	20	30
31	20	SPARE		0				SPARE	20	32
33	20	SPARE			0			SPARE	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	0	0	0		TOTAL CONNECTED LOAD:	0.0 KVA / 0.0 AMPS	

PANEL SCHEDULE

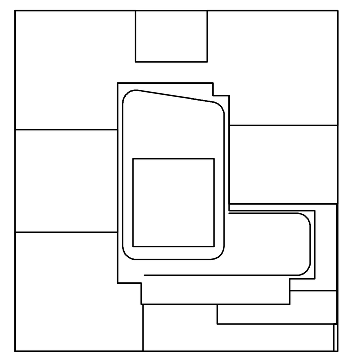
SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 100A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 100A
PANEL DESIGNATION: **APE-39LS**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	20	LIGHTING CORR/ELEV LOBBY (NORTH) 37FL	250	250				SPARE	20	2
3	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 37FL	300		300			SPARE	20	4
5	20	LIGHTING CORR/ELEV LOBBY (NORTH) 38FL	250			250		SPARE	20	6
7	20	LIGHTING CORR/ELEV LOBBY (NORTH) 39FL	250	250				SPARE	20	8
9	20	LIGHTING CORR/ELEV LOBBY (NORTH) 40FL	250		250			SPARE	20	10
11	20	LIGHTING CORR/ELEV LOBBY (NORTH) 41FL	250			250		SPARE	20	12
13	20	LIGHTING CORR/ELEV LOBBY (NORTH) 42FL	250	250				SPARE	20	14
15	20	LIGHTING CORR/ELEV LOBBY (NORTH) 43FL	250		250			SPARE	20	16
17	20	LIGHTING CORR/ELEV LOBBY (NORTH) 44FL	250			250		SPARE	20	18
19	20	LIGHTING CORR/ELEV LOBBY (NORTH) 45FL	250	250				SPARE	20	20
21	20	LIGHTING CORR/ELEV LOBBY (NORTH) 46FL	250		250			SPARE	20	22
23	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 38FL	300			300		SPARE	20	24
25	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 39FL	300	300				SPARE	20	26
27	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 40FL	300		300			SPARE	20	28
29	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 41FL	300			300		SPARE	20	30
31	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 42FL	300	300				SPARE	20	32
33	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 43FL	300		300			SPARE	20	34
35	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 44FL	300			300		SPARE	20	36
37	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 45FL	300	300				SPARE	20	38
39	20	LIGHTING CORR/ELEV LOBBY (SOUTH) 46FL	300		300			SPARE	20	40
41	20	SPARE				0			20	42
			TOTAL VA BY PHASE:	1900	1950	1650		TOTAL CONNECTED LOAD:	KVA / 15.3 AMPS	

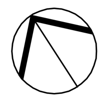
PANEL SCHEDULE

SUPPLY CHARACTERISTICS: VOLTS: 120/208 PHASE: 3φ WIRES: 4+G
MAIN BUS RATING: 400A W.EQP. GR. BUS
MAIN PROTECTIVE DEVICE: 225A
PANEL DESIGNATION: **APE-R (OSB)**

CKT. #	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (VA)	A	B	C	LOAD (VA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT. #
1	30/3*	WINDOW WASHING. NEMA L15-30	1000	2000			1000	WINDOW WASHING. NEMA L15-30	30/3*	2
3			1000		2000		1000			4
5			1000			2000	1000			6
7	30/3*	WINDOW WASHING. NEMA L15-30	1000	2000			1000	WINDOW WASHING. NEMA L15-30	30/3*	8
9			1000		2000		1000			10
11			1000			2000	1000			12
13	30/3*	WINDOW WASHING. NEMA L15-30	1000	2000			1000	WINDOW WASHING. NEMA L15-30	30/3*	14
15			1000		2000		1000			16
17			1000			2000	1000			18
19	30/3*	WINDOW WASHING. NEMA L15-30	1000	2000			1000	WINDOW WASHING. NEMA L15-30	30/3*	20
21			1000		2000		1000			22
23			1000			2000	1000			24
25	30/3*	WINDOW WASHING. NEMA L15-30	1000	2000			1000	WINDOW WASHING. NEMA L15-30	30/3*	26
27			1000		2000		1000			28
29			1000			2000	1000			30
31	20	WATER TANK CONTROLS	360	1160			800	HEAT TRACING	20	32
33	20	WATER TANK CONTROLS	360		1160		800	HEAT TRACING	20	34
35	20	SPARE				0		SPARE	20	36
37	20	SPARE		0				SPARE	20	38
39	20	SPARE			0			SPARE	20	40
41	20	SPARE				0		SPARE	20	42
			TOTAL VA BY PHASE:	11160	11160	10000		TOTAL CONNECTED LOAD:	32.3 KVA / 89.7 AMPS	



KEY PLAN



NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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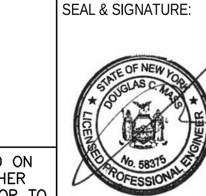
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL - SHEET #11

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
DWG NO. E-411.00
OF

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

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

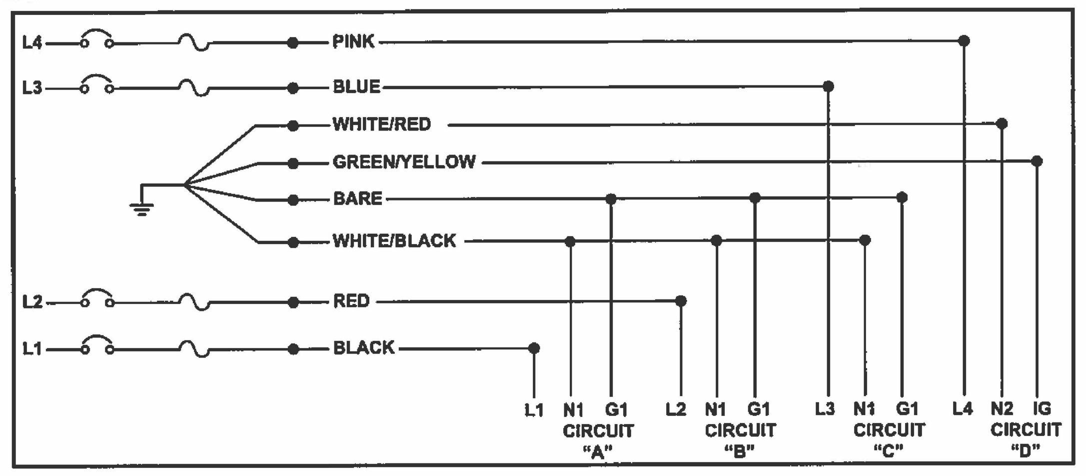
FILE NAME: I:\150318_Outgoing\2017-10-12 update DOB set\electrical\150318E411.dwg SAVED ON 9/15/2017 3:12 PM PLOTTED ON 10/12/2017 3:12 PM PLOTTED BY VALITE, VAN

4/2/2 System Configuration (4 Hots, 2 Neutrals, 2 Grounds)

3 + 1 Wiring Configuration

Appropriate in areas where moderate amounts of sensitive equipment are used, and where separation from other circuits and isolated grounding are required.

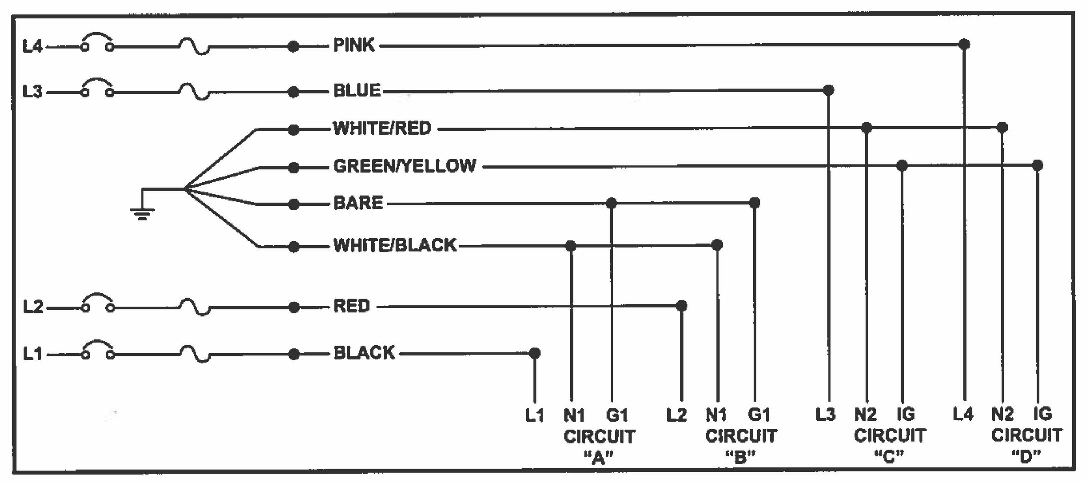
- 3 circuits share #10 AWG neutral to manage harmonics for general purpose use
- 1 isolated ground circuit for sensitive equipment
- Component Rating: 20 amperes at 120/208 or 120/240 volt
- 8-Wires (4 Hots, 2 Neutrals, 2 Grounds)



2 + 2 Wiring Configuration

Appropriate in areas where a high concentration of sensitive equipment (computers, printers) is needed and minimal amounts of conventional equipment exist.

- 2 circuits share #10 AWG neutral to manage harmonics for general purpose use
- 2 isolated ground circuits for sensitive equipment
- Component Rating: 20 amperes at 120/208 or 120/240 volt
- 8-Wires (4 Hots, 2 Neutrals, 2 Grounds)

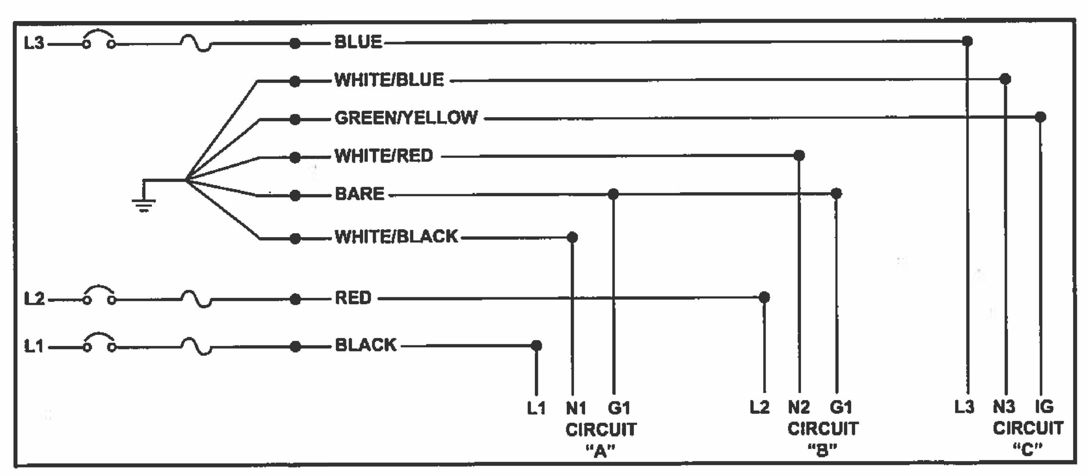


3/3/2 System Configuration (3 Hots, 3 Neutrals - 2 Grounds)

2 + 1 Wiring Configuration

Appropriate where either a 120/240 volt or 120/208 volt 3Ø Y power distribution system exists and separate neutral conductors are desired.

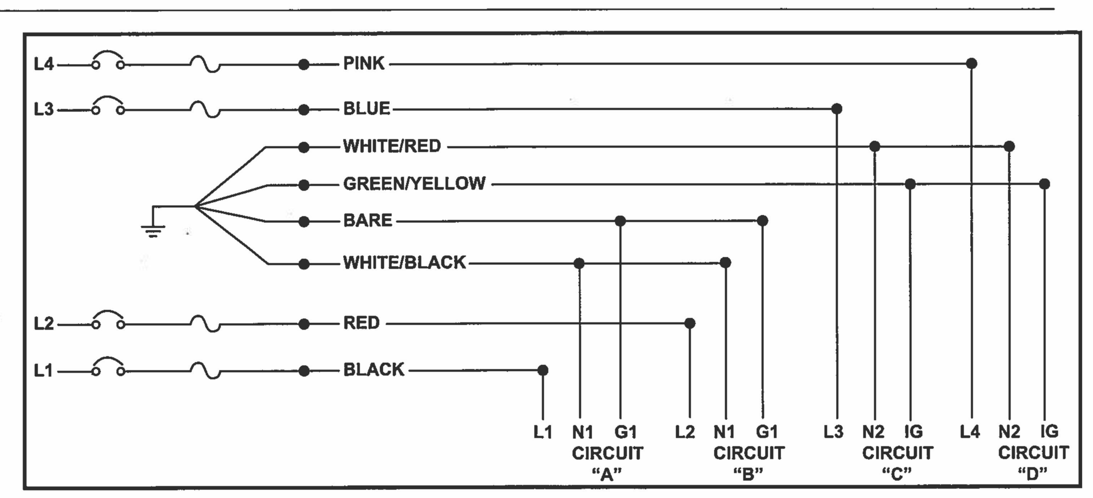
- 2 circuits for general purpose use
- 1 isolated ground circuit for sensitive equipment
- Each circuit has its own neutral to manage harmonics
- Component Rating: 20 amperes at 120/208 or 120/240 volt
- 8-Wires (3 Hots, 3 Neutrals, 2 Grounds)



2 + 2 Wiring Configuration

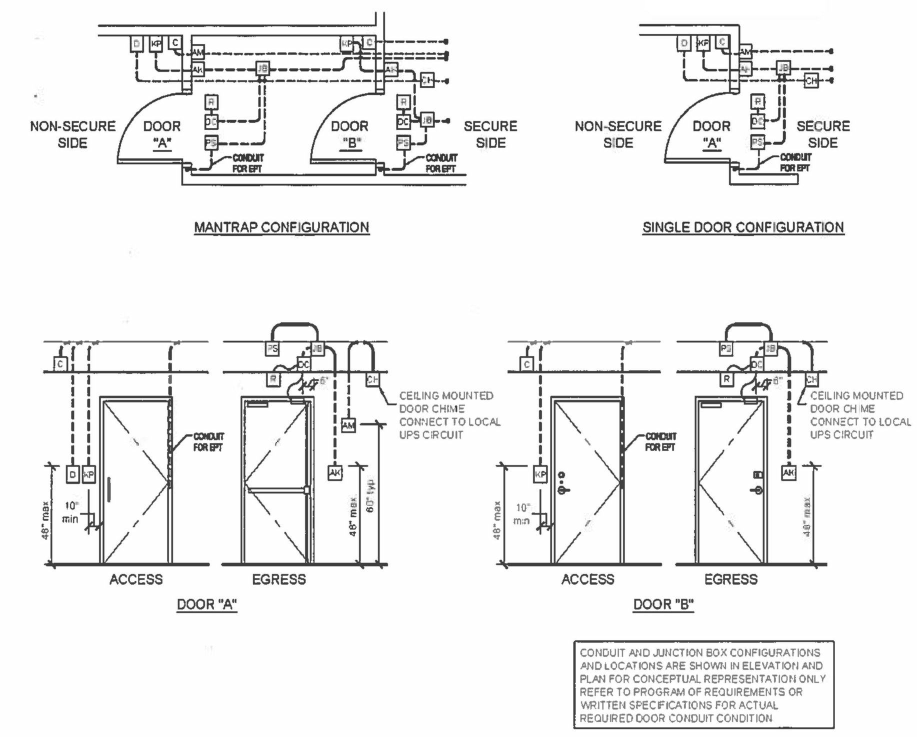
Appropriate in areas where a high concentration of sensitive equipment (computers, printers) is needed and minimal amounts of conventional equipment exist.

- 2 circuits share #10 AWG neutral to manage harmonics for general purpose use
- 2 isolated ground circuits for sensitive equipment
- Component Rating: 20 amperes at 120/208 or 120/240 volt
- 8-Wires (4 Hots, 2 Neutrals, 2 Grounds)



15.6 DOOR CONDUIT CONDITION

Rooms noted within the Room Data Matrix with number keys for DOOR CONDUIT CONDITION shall be provided with conduit and boxes according to the following diagram and Door Conduit Condition Legend below:



CONDUIT REQUIREMENTS AT ELECTRONICALLY ACCESS CONTROLLED DOORS

LEGEND

- AK ALARM KEYPAD
- AM AMBUSH MONITOR
- C SECURITY CAMERA
- DC DOOR CONTACT
- JB JUNCTION BOX (12" X 12")
- KP ACCESS CONTROL KEYPAD
- R REQUEST TO EXIT
- PS POWER SUPPLY
- D DOOR BELL / INTERCOM - PROVIDE FOR SWE > 1,000SF
- CH DOOR CHIME - PROVIDE FOR SWE > 1,000SF
- EPT ELECTRIC POWER TRANSFER

DOOR CONDUIT CONDITION LEGEND (RESIDENT AGENCY)

*1. PROVIDE CONDUIT FOR DC, AND JUNCTION BOX. (EXIT ONLY)

2. PROVIDE CONDUITS FOR EPT, KP, BACKBOX FOR KP, AND JUNCTION BOX. (EQUIPMENT ROOM)

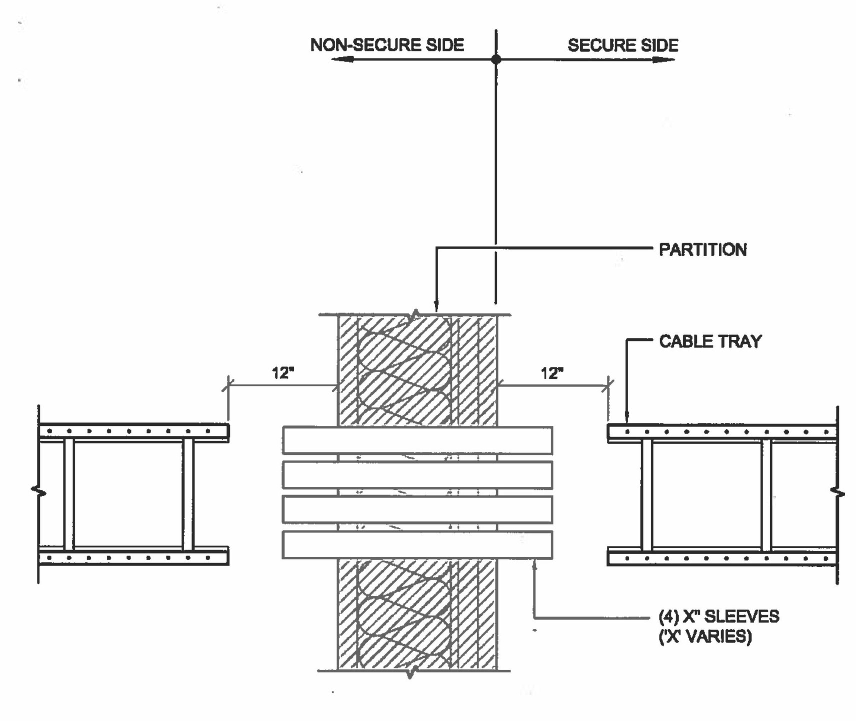
3. PROVIDE CONDUITS FOR EPT, KP, DC, BACKBOX FOR KP, AND JUNCTION BOX. (STORAGE)

*4. PROVIDE CONDUITS FOR EPT, KP, DC, AK, BACKBOX FOR KP, AND JUNCTION BOX. (ALARMED)

5. PROVIDE CONDUITS FOR EPT, KP, DC, C, AK, BACKBOX KP, AM, AND JUNCTION BOX. (PERIMETER)

*FOR A6 & A7 SERIES WALL TYPES, ALL BOXES AND CONDUITS SHALL BE SURFACE MOUNTED.

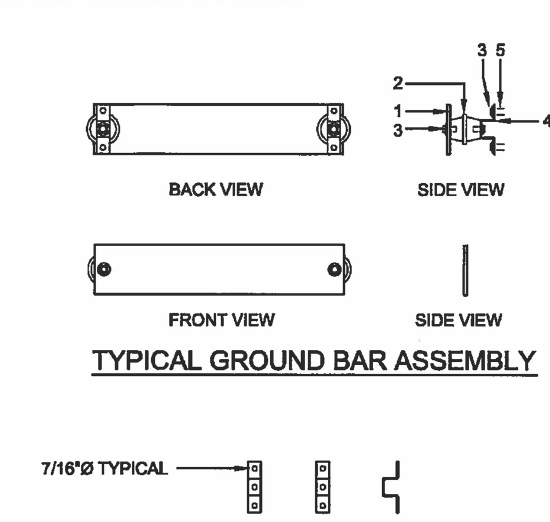
13.23 DETAIL: THRU WALL SLEEVES AT CABLE TRAY



NOT TO SCALE 05/01/15

1. CABLE TRAY SHALL BE CUT 12 INCHES ON EITHER SIDE OF THE PARTITION. CONDUIT SLEEVE QUANTITY AND DIAMETER AS NEEDED.
2. GC SHALL SEAL SLEEVES WITH RE-ENTRABLE FIRE PROOFING/SEALANT AFTER GOVERNMENT INSTALLATION OF CABLING. FIRE RATED MATERIAL SHALL MEET ASTM E84 AND NFPA 101 SECTION 8.3.5.1.
3. SEAL AROUND SLEEVES WITH ACOUSTICAL CAULK - BOTH SIDES.

13.28 DETAIL: GROUND BUS BAR



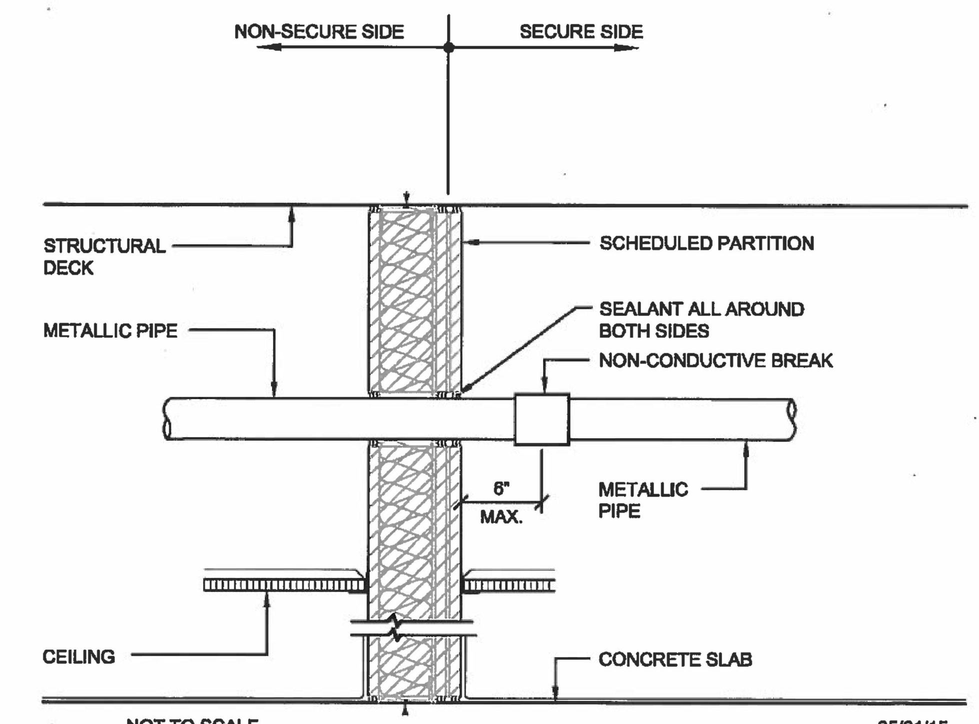
TYPICAL GROUND BAR ASSEMBLY

BRACKET FOR GROUND BAR-DIMENSIONS

NOT TO SCALE 05/01/15

1. HIGH CONDUCTIVITY COPPER BAR, X"L x 4"W x 1/4"D. CONTRACTOR TO COORDINATE LENGTHS WITH TENANT PROJECT MANAGER.
2. RED COLORED STANDOFF INSULATOR GLASTIC #1872-1A.
3. STAINLESS STEEL TYPE 304 HARDWARE, 3/8"Ø-16-7/8" L HEX BOLT WITH MATCHING 3/8" BOLT SIZE SPLIT LOCKWASHER AND FLAT WASHER.
4. 1"W x 1/8"T STAINLESS STEEL TYPE 304 BRACKET.
5. (4) STAINLESS STEEL TYPE 304 HARDWARE 3/8"Ø EXPANSION BOLT.
6. COORDINATE LOCATION WITH TENANT PROJECT MANAGER.
7. ELECTRICAL CONTRACTOR TO CONNECT TO GROUNDED SOURCE.
8. ADD SECONDARY GROUND BUS BAR WITHIN EXISTING COMMUNICATIONS ROOM. COORDINATE FINAL LOCATION WITH LOCAL GOVERNMENT TECHNICAL MANAGER.

13.24 DETAIL: DI-ELECTRIC BREAK

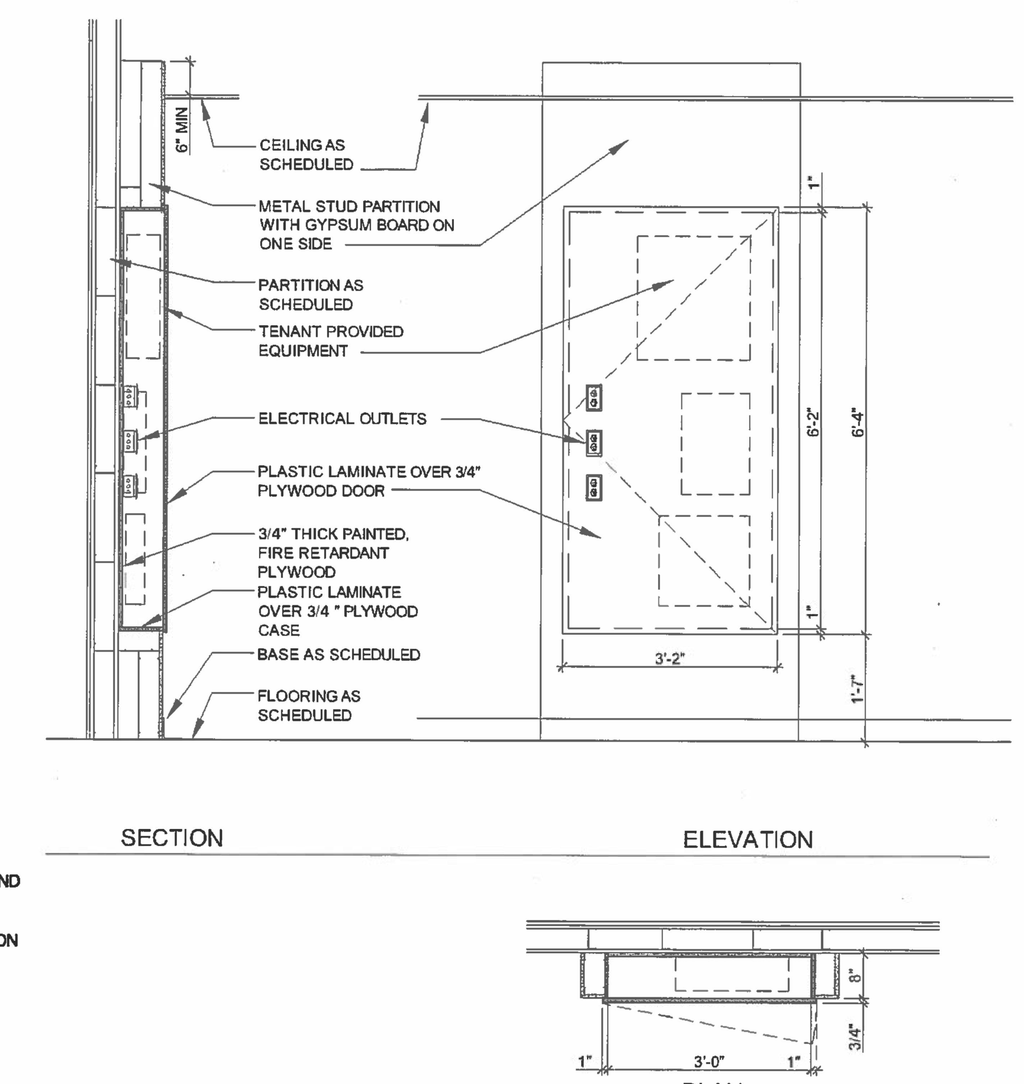


NOT TO SCALE 05/01/15

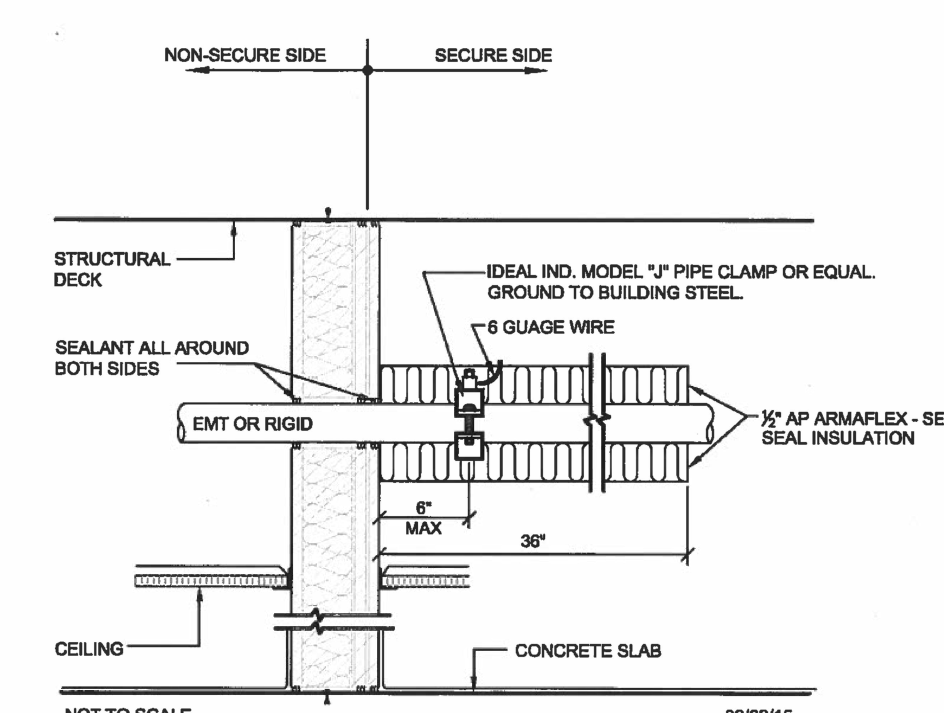
NOTE:
NON-CONDUCTIVE BREAK SHALL BE UL LISTED FOR USE IN AUTOMATIC FIRE SPRINKLER SYSTEMS.

THE NONCONDUCTIVE BREAK IS NOT REQUIRED IN A RESIDENT AGENCY (RA) IF THE BUILDING IS A STAND ALONE STRUCTURE AND THE FBI IS THE ONLY TENANT OCCUPYING THE BUILDING.

13.26 SWE CABINET



13.27 DETAIL: GROUNDING AND WRAPPING



NOT TO SCALE 02/02/15

NOTES:

1. GROUNDING AND WRAPPING REQUIRES CLIENT APPROVAL.
2. IF RACEWAY DIAMETER IS GREATER THAN 2" THEN USE A SENIOR IND. SI-0954 SERIES UNIV. GROUND STRAP CLAMP W/PENETRATOR ("P" SUFFIX TO P/N)

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

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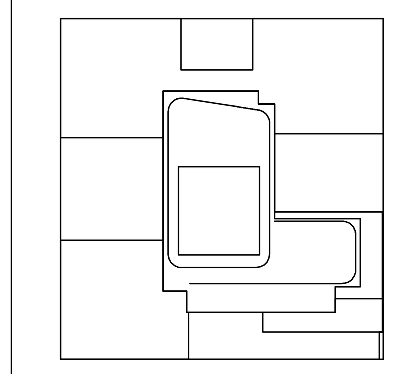

KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
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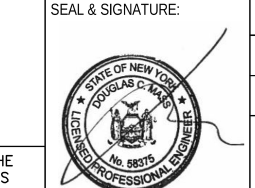
(212) 908-4940

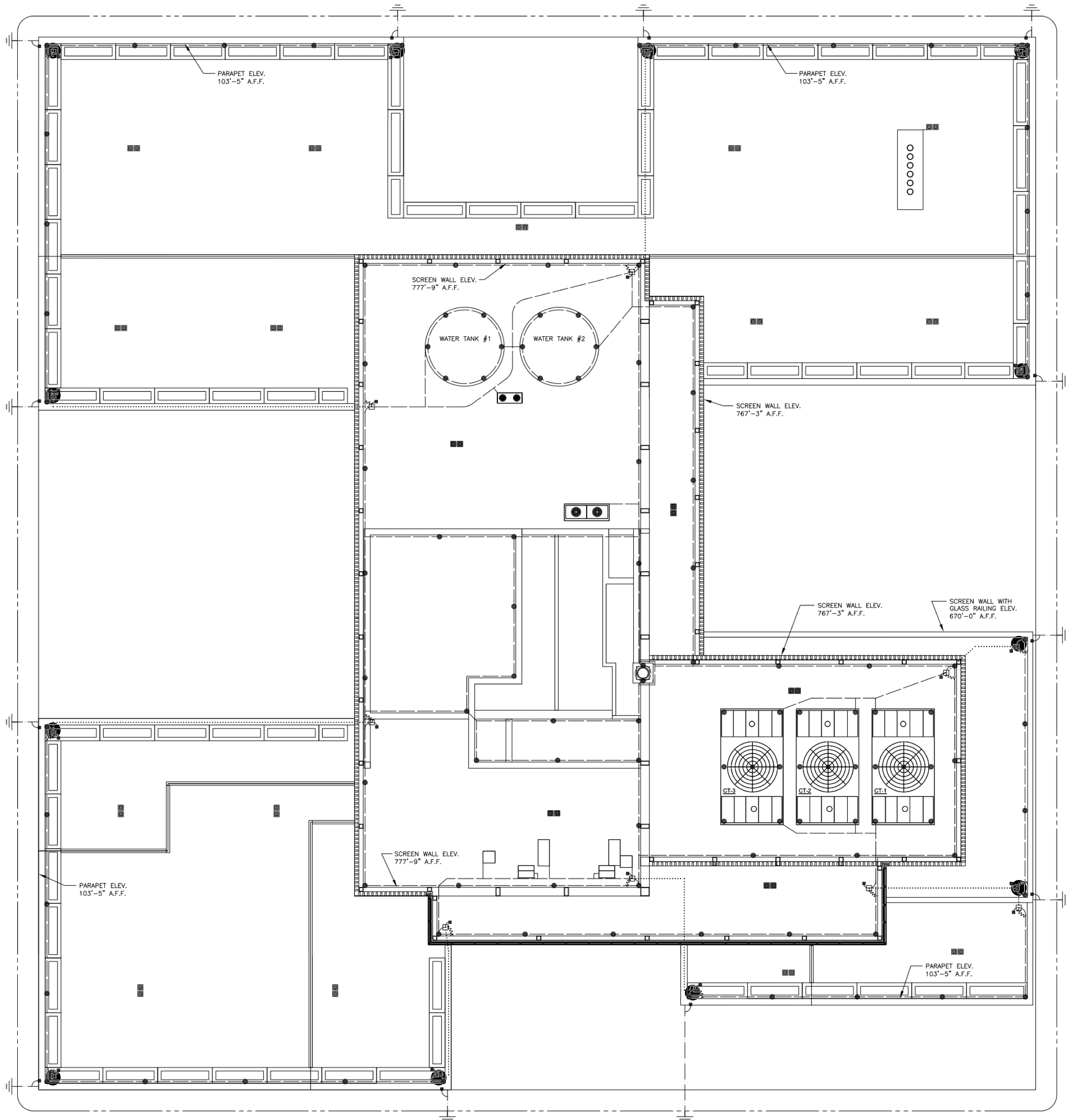
DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
SCHEDULE & DETAIL- SHEET #12

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-412.00
DWG NO.
OF



THE LIGHTNING PROTECTION INSTALLER SHALL BE RESPONSIBLE FOR VERIFYING SITE CONDITIONS AS REQUIRED FOR BONDING IN ACCORDANCE WITH THE NATIONAL STANDARD UL 96A, LPI-175 & NFPA 780 AS REQUIRED FOR SYSTEM CERTIFICATION.

NORTH

ROOF PLAN LIGHTNING PROTECTION LAYOUT

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

0 1 4 8 16

NOTE: INSTALLING CONTRACTOR TO FIELD VERIFY BONDING OF ROOF MOUNTED METALLIC BODIES OF INDUCTANCE; VENT PIPE, ROOF DRAIN, FLASHING, ROOF DAVIT, ETC., WITHIN 6'-0" OF A LIGHTNING PROTECTION COMPONENT PER GENERAL NOTE "3". ALSO FIELD VERIFY BONDING OF METALLIC SERVICE LINES; WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC., ENTERING THE STRUCTURE PER GENERAL NOTES "2" AND "12".

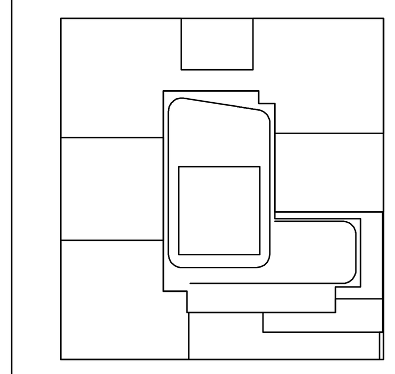
GENERAL INSTALLATION NOTES

1	SECONDARY SURGE ARRESTORS OR TVSS LISTED FOR LPS ARE REQUIRED ON THE MAIN ELECTRICAL SERVICE PANEL, DATA, TELEPHONE AND ANTENNA SERVICE PROTECTION ARE ALSO REQUIRED BY ELECTRICAL CONTRACTOR OR VARIOUS UTILITY AGENCIES. PLEASE CONTACT PENTAIR FOR ADVICE AS REQUIRED.
2	TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.
3	METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
4	NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8".
5	CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
6	ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.
7	GROUND RODS SHALL BE DRIVEN SO THAT THE TOP OF THE GROUND RODS IS TO A MINIMUM DEPTH OF 12" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
8	CONNECTIONS TO GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 24" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
9	AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.
10	MIDROOF AIR TERMINALS SHALL BE PLACED ON 50'-0" MAXIMUM SPACING.
11	FOR SAKE OF CLARITY, WE HAVE NOT LABELED EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN. WE HAVE SHOWN INSTALLATION DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN ONLY AT RANDOM LOCATIONS.
12	BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR GROUND LOOP.
13	BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
14	THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
15	ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
16	SEAL ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL OR LEAD WEDGE.
17	ALL CONDUIT, CONDUIT FASTENERS AND MISCELLANEOUS ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
18	THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD #780, CURRENT EDITION.
19	THE INSTALLATION DETAILS AND MATERIALS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES (UL) STANDARD 96A FOR MASTER LABELED LIGHTNING PROTECTION SYSTEMS.
20	THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN ALL RESPECTS TO LIGHTNING PROTECTION INSTITUTE STANDARD 175. THE INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER.

LEGEND

●	AIR TERMINAL LOCATION
	THRU-ROOF CABLE TO REBAR BOND PENETRATION CONNECTION LOCATION
	REBAR BOND AT CABLE DOWNLEAD TO GROUND ROD AND GROUND LOOP LOCATION
— — — —	NO. LPA105 ALUMINUM CABLE, U.L. LABELED, 37 ST., 12-1/2 GA., 204 LBS./1,000 FT., 211,000 CM. (#4/0 AWG).
wwwwwwww	NO. LPA141 ALUMINUM SECONDARY BONDING WIRE, 40 LBS./1,000 FT., 41,740 CM. (#4 AWG). NOT SHOWN ON ROOF PLAN
— · — · —	NO. LPC126R COPPER CABLE, U.L. LABELED, 28 ST., 14 GA., 380 LBS./1,000 FT., 115,080 CM. (MIN. CLASS II CABLE).
....	NO. LPC126R COPPER CABLE, U.L. LABELED, SAME SPECS AS ABOVE. COURSE CABLE CONCEALED FROM VIEW SHOWN.
——— - - ———	NO. LPC126R COPPER CABLE, U.L. LABELED, 28 ST., 14 GA., 380 LBS./1,000 FT., 115,080 CM. (MIN. CLASS II CABLE). GROUND LOOP CABLE.
▭ ○	MISC. MECHANICAL EQUIPMENT
▪▪	ROOF DRAIN
A.F.F.	ABOVE FIRST FLOOR

NOTE:
BASIS OF DESIGN PENTAIR / ERICO OR APPROVED EQUAL.



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DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
LIGHTNING PROTECTION LAYOUT

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
E-600.00
DWG NO.
OF

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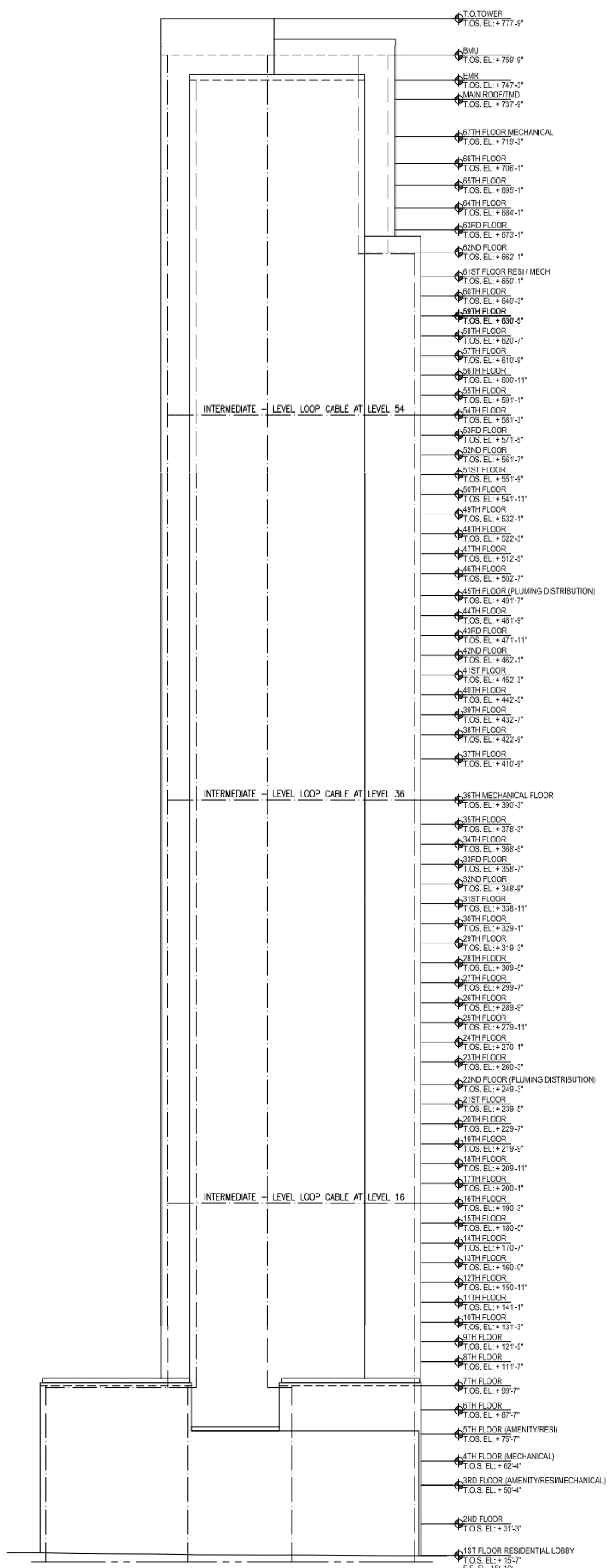
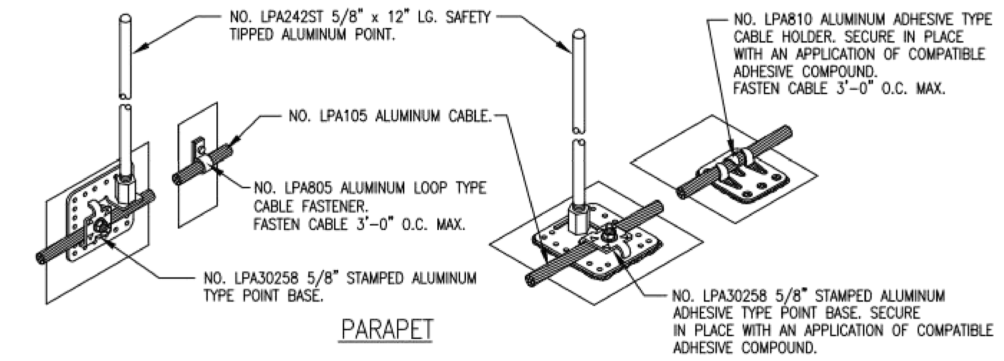
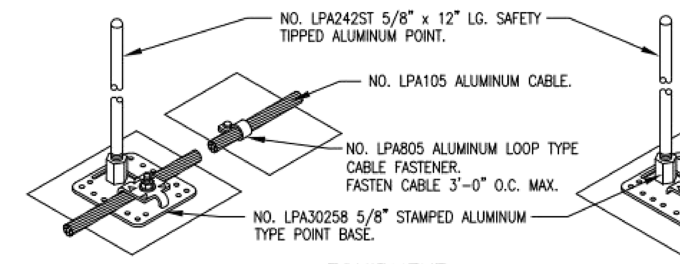


NORTH ELEVATION VIEW
INTERMEDIATE LOOP CABLE LOCATIONS
SCALE: 1/32" = 1'-0"

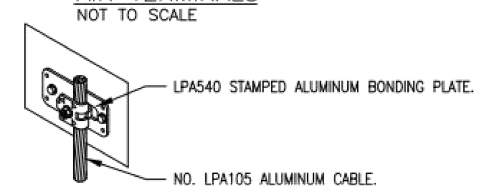


PARAPET

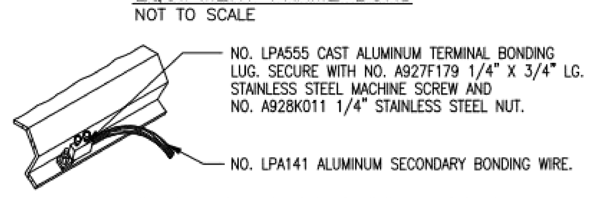


EQUIPMENT

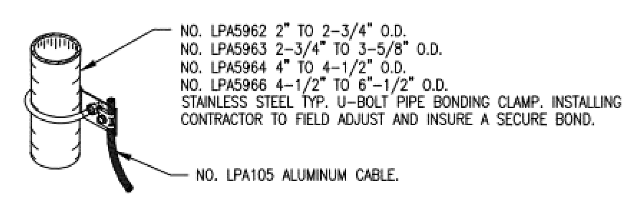
AIR TERMINALS
NOT TO SCALE



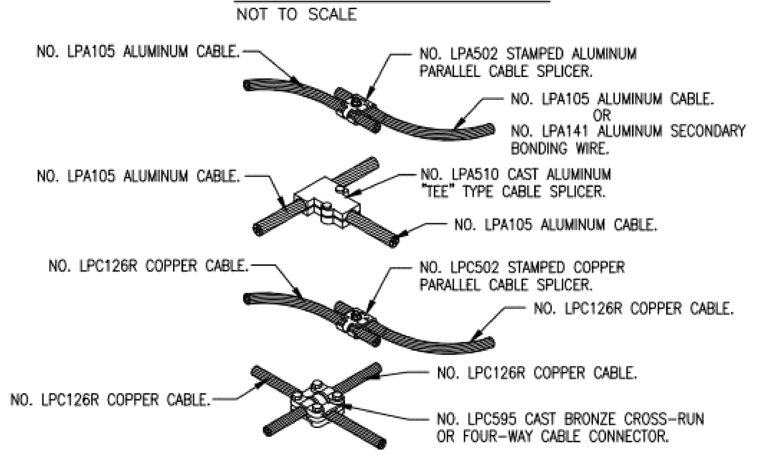
EQUIPMENT FRAME BOND
NOT TO SCALE



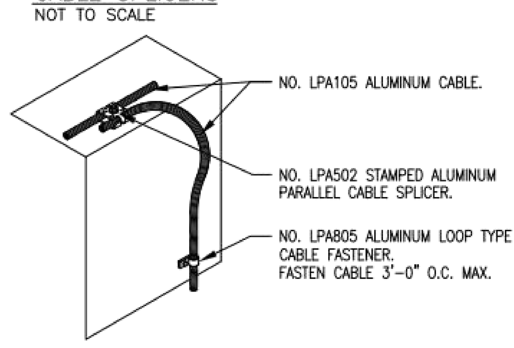
FLASHING OR ROOF DRAIN BOND
NOT TO SCALE



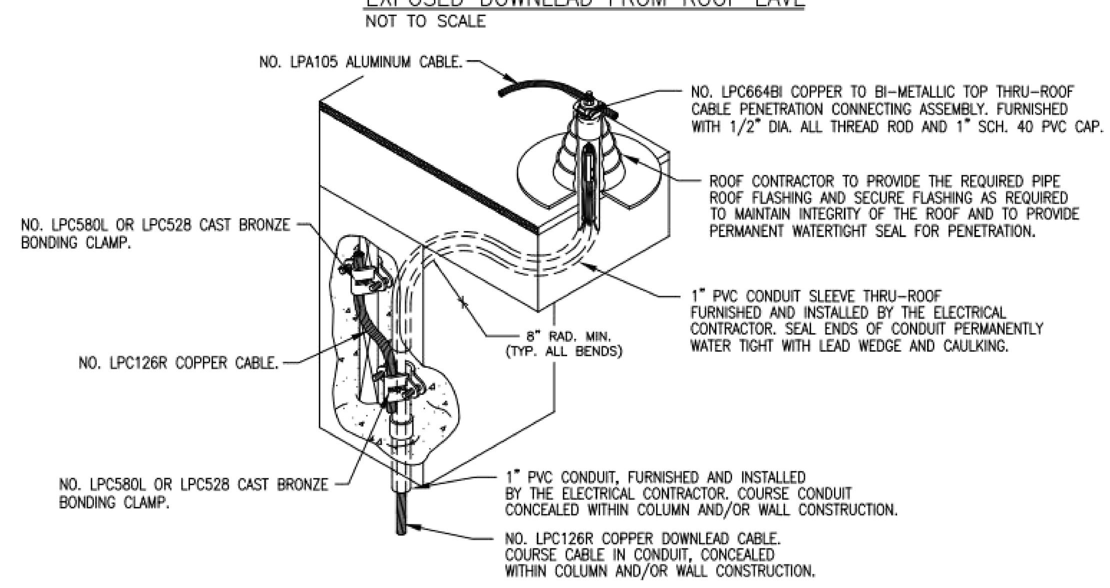
ROOF PIPE BONDING CLAMP
NOT TO SCALE



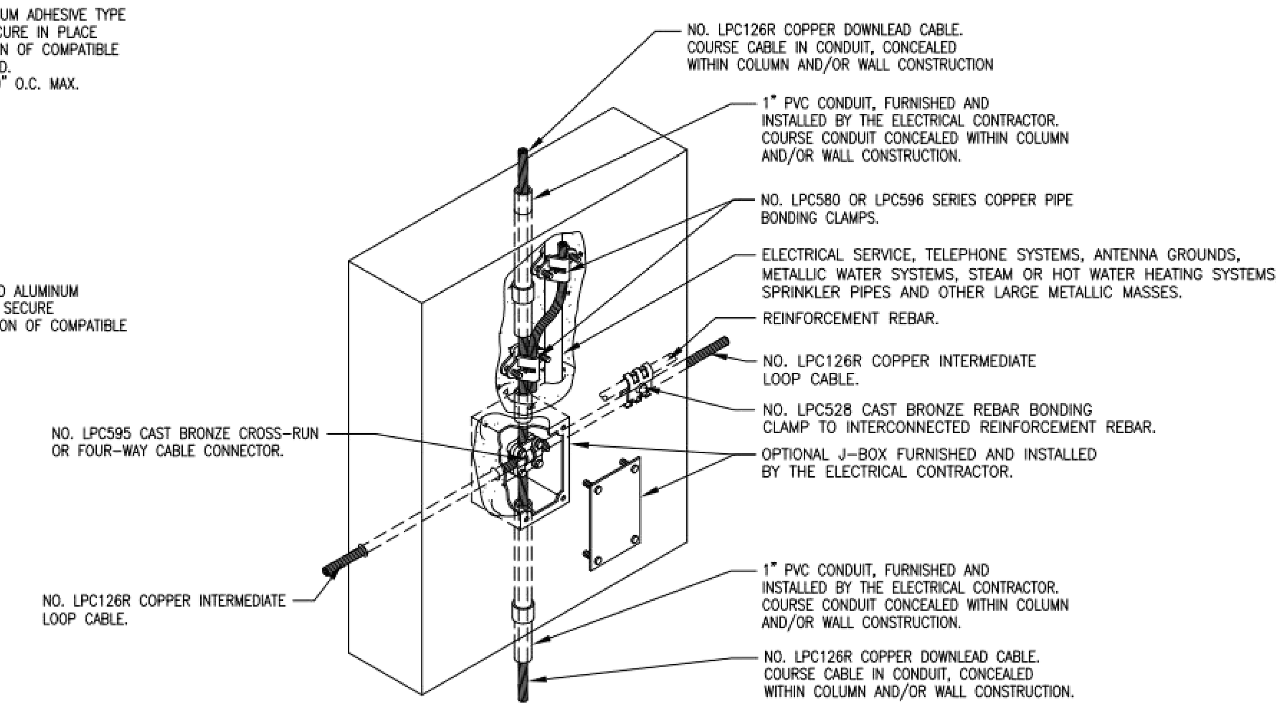
CABLE SPLICERS
NOT TO SCALE



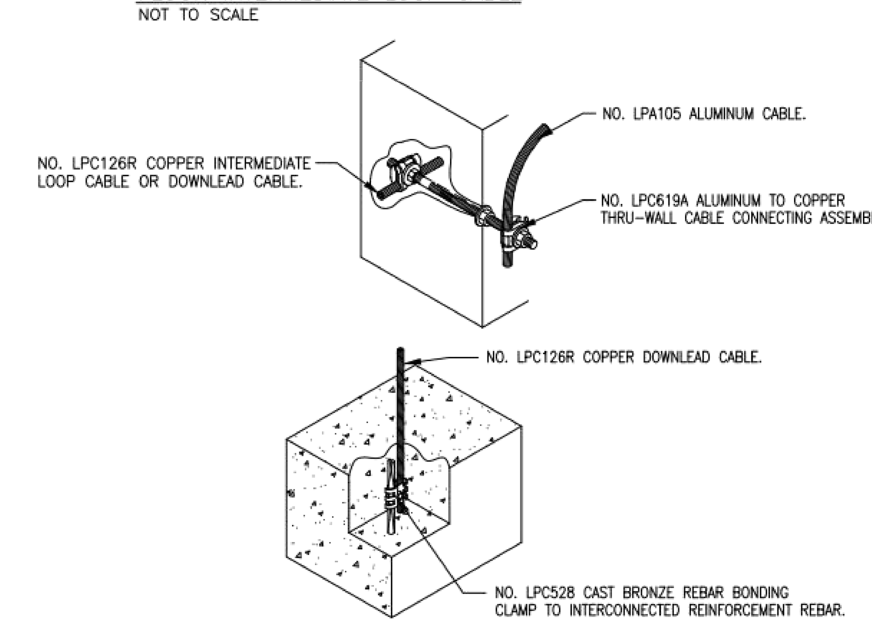
EXPOSED DOWNLEAD FROM ROOF EAVE
NOT TO SCALE



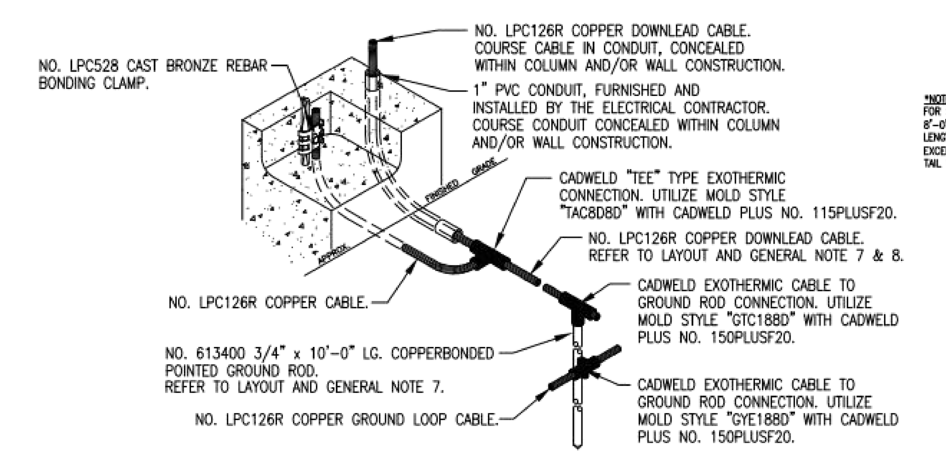
THRU-ROOF CABLE TO REBAR BOND PENETRATION CONNECTION
NOT TO SCALE



DOWNLEAD CABLE CONNECTION TO 54TH, 36TH & 16TH FLOOR INTERMEDIATE LOOP CABLE
NOT TO SCALE

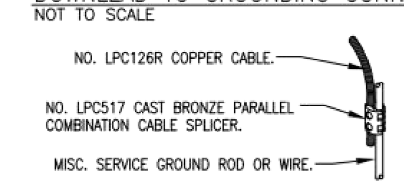


THRU-WALL OR REINFORCEMENT REBAR CABLE CONNECTIONS FOR INTERMEDIATE LOOP CABLE OR DOWNLEAD CABLE
NOT TO SCALE

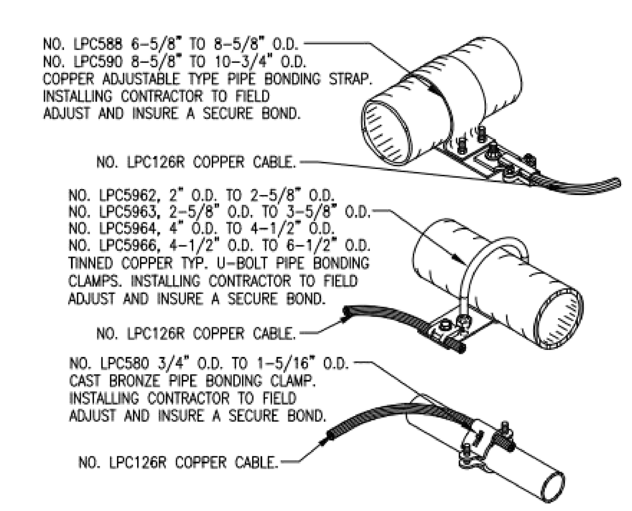


NOTE: GROUND RODS AND GROUND LOOP MAY BE RELOCATED WITHIN THE CELLAR AS REQUIRED BY FIELD CONDITIONS.

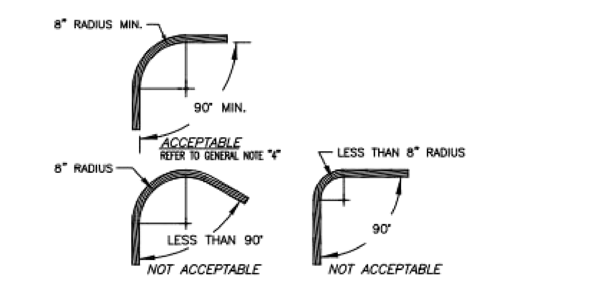
DOWNLEAD TO GROUNDING CONNECTION
NOT TO SCALE



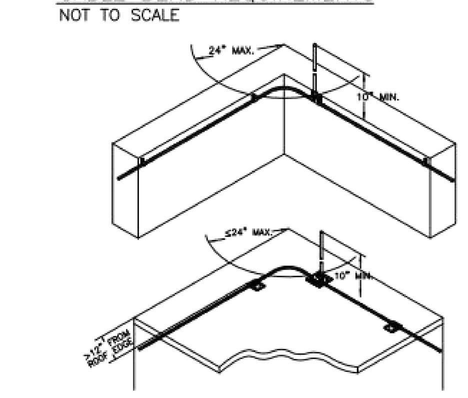
TELEPHONE AND/OR ELECTRICAL SERVICE BOND
NOT TO SCALE



PIPE BONDING CLAMP
NOT TO SCALE

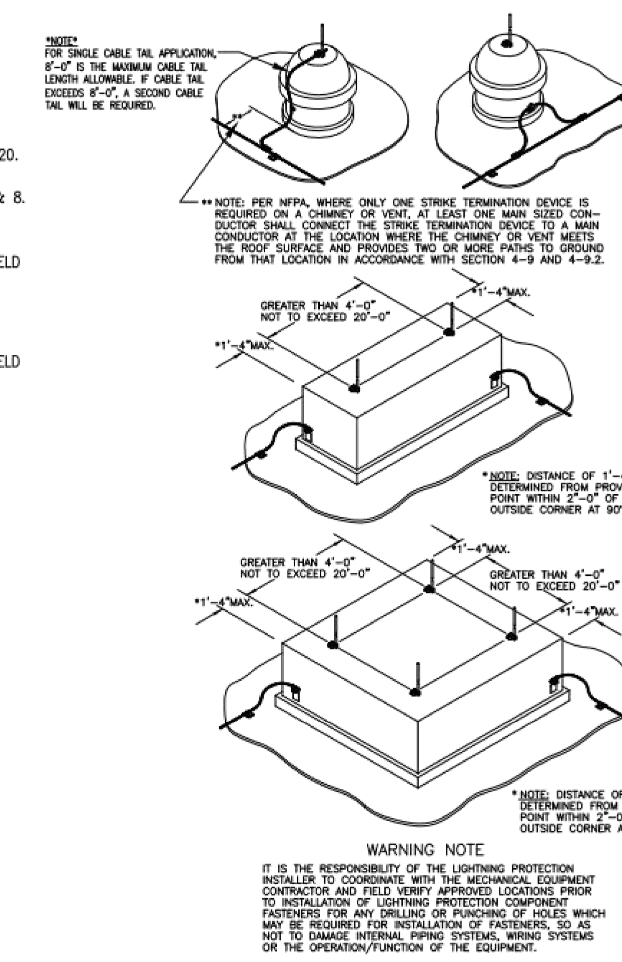


CABLE BEND REQUIREMENTS
NOT TO SCALE



NOTE: THIS DETAIL DEPICTS NO SPECIFIC AREA OR INSTALLATION PROCEDURES SHOWN ON THE LAYOUT. THIS DETAIL ILLUSTRATES TYPICAL AIR TERMINAL PLACEMENT AT OUTSIDE CORNERS.

AIR TERMINAL PLACEMENT AT OUTSIDE CORNERS
NOT TO SCALE



WARNING NOTE
IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION INSTALLER TO COORDINATE WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND FIELD VERIFY APPROVED LOCATIONS PRIOR TO INSTALLATION OF LIGHTNING PROTECTION COMPONENT FASTENERS FOR ANY DRILLING OR PUNCHING OF HOLES WHICH MAY BE REQUIRED FOR INSTALLATION OF FASTENERS, SO AS NOT TO DAMAGE INTERNAL PIPING SYSTEMS, WIRING SYSTEMS OR THE OPERATION/FUNCTION OF THE EQUIPMENT.

SCHEMATIC VIEW CABLE ROUTING AT EQUIPMENT
NOT TO SCALE

THE LIGHTNING PROTECTION INSTALLER SHALL BE RESPONSIBLE FOR VERIFYING SITE CONDITIONS AS REQUIRED FOR BONDING IN ACCORDANCE WITH THE NATIONAL STANDARD UL 96A, LPI-175 & NFPA 780 AS REQUIRED FOR SYSTEM CERTIFICATION.

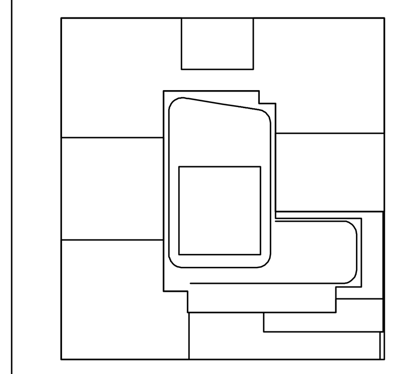
NOTE: INSTALLING CONTRACTOR TO FIELD VERIFY BONDING OF ROOF MOUNTED METALLIC BODIES OF INDUCTANCE; VENT PIPE, ROOF DRAIN, FLASHING, ROOF DAVIT, ETC., WITHIN 6'-0" OF A LIGHTNING PROTECTION COMPONENT PER GENERAL NOTE "3". ALSO FIELD VERIFY BONDING OF METALLIC SERVICE LINES; WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC., ENTERING THE STRUCTURE PER GENERAL NOTES "2" AND "12".

GENERAL INSTALLATION NOTES

1	SECONDARY SURGE ARRESTORS OR TVSS LISTED FOR LPS ARE REQUIRED ON THE MAIN ELECTRICAL SERVICE PANEL, DATA, TELEPHONE AND ANTENNA SERVICE PROTECTION ARE ALSO REQUIRED BY ELECTRICAL CONTRACTOR OR VARIOUS UTILITY AGENCIES. PLEASE CONTACT PENTAIR FOR ADVICE AS REQUIRED.
2	TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.
3	METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
4	NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8".
5	CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
6	ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.
7	GROUND RODS SHALL BE DRIVEN SO THAT THE TOP OF THE GROUND RODS IS TO A MINIMUM DEPTH OF 12" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
8	CONNECTIONS TO GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 24" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
9	AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.
10	MIDROOF AIR TERMINALS SHALL BE PLACED ON 50'-0" MAXIMUM SPACING.
11	FOR SAKE OF CLARITY, WE HAVE NOT LABELED EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN. WE HAVE SHOWN INSTALLATION DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN ONLY AT RANDOM LOCATIONS.
12	BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR GROUND LOOP.
13	BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
14	THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
15	ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
16	SEAL ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL OR LEAD WEDGE.
17	ALL CONDUIT, CONDUIT FASTENERS AND MISCELLANEOUS ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
18	THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD #780, CURRENT EDITION.
19	THE INSTALLATION DETAILS AND MATERIALS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES (UL) STANDARD 96A FOR MASTER LABELED LIGHTNING PROTECTION SYSTEMS.
20	THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN ALL RESPECTS TO LIGHTNING PROTECTION INSTITUTE STANDARD 175. THE INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER.

LEGEND

Symbol	Description
●	AIR TERMINAL LOCATION
(symbol)	THRU-ROOF CABLE TO REBAR BOND PENETRATION CONNECTION LOCATION
(symbol)	REBAR BOND AT CABLE DOWNLEAD TO GROUND ROD AND GROUND LOOP LOCATION
— — — —	NO. LPA105 ALUMINUM CABLE, U.L. LABELED, 37 ST., 12-1/2 GA., 204 LBS./1,000 FT., 211,000 CM. (#4/0 AWG).
wwwwwwww	NO. LPA141 ALUMINUM SECONDARY BONDING WIRE, 40 LBS./1,000 FT., 41,740 CM. (#4 AWG). NOT SHOWN ON ROOF PLAN
—·—·—·—	NO. LPC126R COPPER CABLE, U.L. LABELED, 28 ST., 14 GA., 380 LBS./1,000 FT., 115,080 CM. (MIN. CLASS II CABLE).
....	NO. LPC126R COPPER CABLE, U.L. LABELED, SAME SPECS AS ABOVE. COURSE CABLE CONCEALED FROM VIEW SHOWN.
—— - - ——	NO. LPC126R COPPER CABLE, U.L. LABELED, 28 ST., 14 GA., 380 LBS./1,000 FT., 115,080 CM. (MIN. CLASS II CABLE). GROUND LOOP CABLE.
▭ ▢	MISC. MECHANICAL EQUIPMENT
▪▪	ROOF DRAIN
A.F.F.	ABOVE FIRST FLOOR



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
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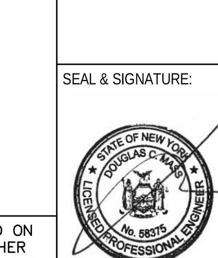
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
ELECTRICAL
LIGHTNING PROTECTION DETAILS

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: NONE
E-601.00
DWG NO.
OF

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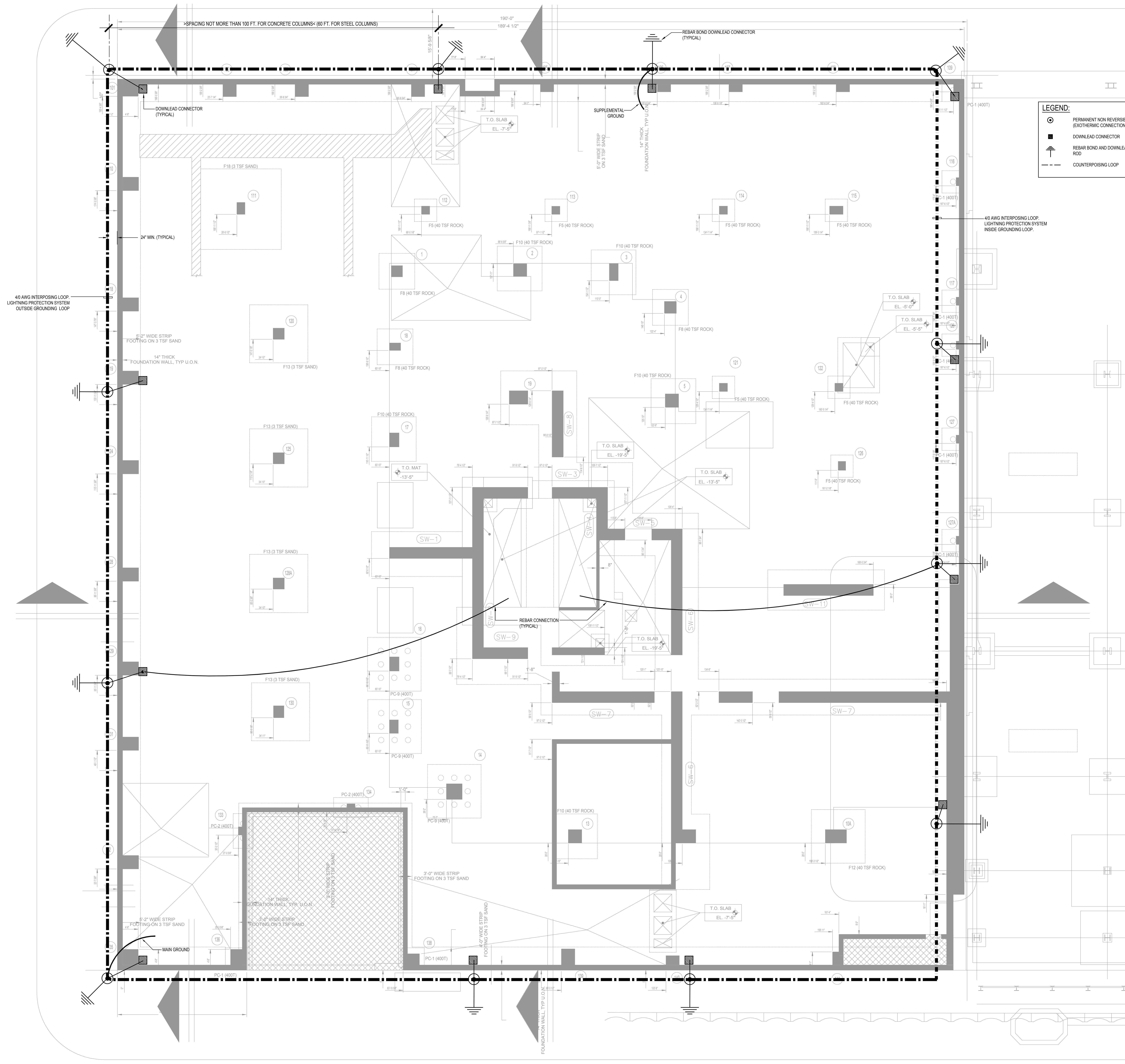
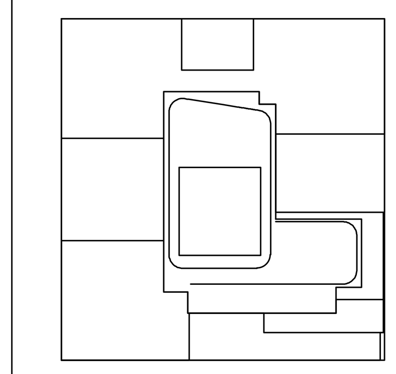


LEGEND:

⊙	PERMANENT NON REVERSIBLE CONNECTION (EXOTHERMIC CONNECTION/WELD)
■	DOWNLEAD CONNECTOR
⏚	REBAR BOND AND DOWNLEAD GROUND ROD
— - —	COUNTERPOISING LOOP



KEY PLAN

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Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
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DOB STAMPS & SIGNATURES:

DWG TITLE:

ELECTRICAL
UNDERGROUND LIGHTNING PLAN DETAIL

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"

E-602.00
DWG NO.

0 OF 0

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DEPT OF BLDGS 420655954 Job Number
ES857337574 Scan Code

KEY OF SYMBOLS

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

- SOIL OR WASTE PIPING (S) (W)
- SOIL OR WASTE PIPING ON FLOOR BELOW
- WASTE TO GREASE INTERCEPTOR (GW)
- INDIRECT WASTE (IW)
- VENT PIPING
- COLD WATER PIPING (C.W.)
- HOT WATER PIPING (H.W.)
- HWAT TRACED HOT WATER PIPING
- HOT WATER CIRCULATING PIPING (H.W.C.)
- PIPING WITH HEAT TRACING AND INSULATION
- AIR ELIMINATOR DRAIN (AED)
- GATE VALVE (G.V.)
- LOCKSHIELD VALVE (GLOBE VALVE)
- PLUG COCK
- CHECK VALVE (C.V.)
- DUAL CHECK VALVE
- HOSE BIBB (H.B.) SILL COCK (S.C.)
- VACUUM BREAKER (V.B.)
- PRESSURE RELIEF VALVE / PRESS. & TEMP. RELIEF VALVE
- PRESSURE REGULATING VALVE
- STRAINER
- "P" TRAP FOR LAV., SINK, ETC.
- CLEANOUT DECK PLATE (C.O.D.P.)
- SHOCK ABSORBER
- ANCHOR
- GUIDE
- SLEEVE
- WATER PROOF SLEEVE
- PRESSURE GAUGE
- THERMOMETER
- UNION CONNECTION
- EXPANSION JOINT
- AUTOMATIC AIR VENT VALVE
- HOT WATER CIRCULATION BALANCING RIG
- HOT WATER CIRCULATION BALANCING RIG W/AIR ELIMINATOR
- MIXING VALVE
- BALL VALVE
- CLEANOUT
- CAPPED OUTLET
- FLOOR DRAIN

A.B.D.	AUTOMATIC BALL DRIP	MH.	MANHOLE
A.D.	ACCESS DOOR	MS	MOP SINK
A. DR.	AREA DRAIN	NC	NORMALLY CLOSED
BT	BATH TUB	N.I.C.	NOT IN CONTRACT
C.D.	CANOPY DRAIN	O.D.	OVERFLOW DRAIN
C.F.H.	CUBIC FEET PER HOUR	O.P.D.	OVERFLOW PLANTER DRAIN
C.F.M.	CUBIC FEET PER MINUTE	O.S.&Y.	OUTSIDE SCREW & YOKE
C.F.S.	CUBIC FEET PER SECOND	P.C.	PLUG COCK
CLG.	CEILING	℄	PROPERTY LINE
C.O.	CLEANOUT	P.D.	PLANTER DRAIN
C.O.D.P.	CLEAN OUT DECK PLATE	P.O.	PLUGGED OUTLET
C.V.	CHECK VALVE	R.P.B.	REDUCED PRESSURE
C.V.B.	CHECK VALVE BOX	F.P.	BACKFLOW PREVENTER
D.I.	DROP INLET	R.A.	ROOF AREA
D.F.	DRINKING FOUNTAIN	R.D.	ROOF DRAIN
DN.	DOWN	REF	REFRIGERATOR
DW	DISHWASHER	R.T.	RUNNING TRAP
EL.	ELEVATION	R.C.V.	RISER CONTROL VALVE
E.W.C.	ELECTRIC WATER COOLER	RV	RELIEF VENT
FAI	FRESH AIR INLET	S	SOIL PIPING
FD / FL. DR.	FLOOR DRAIN	S.P.O.	SOIL PLUGGED OUTLET
F.H.C.	FIRE HOSE CABINET	S.H.	SHOWER HEAD
F.H.	FIRE HYDRANT	SH	SHOWER
F.H.R.	FIRE HOSE RACK	SK	SINK
FL.	FLOOR	S.S.	SERVICE SINK
F.O.	FLOOR OUTLET	S.E.	SEWAGE EJECTOR
F.U.	FIXTURE UNITS	ST	STORM PIPING
FUN. DR.	FUNNEL DRAIN	T.A.	TOTAL AREA
F.V.	FLUSH VALVE FLUSHOMETER	T.D.	TERRACE DRAIN
G	GAS PIPING	T.E.	TERRACE ELEVATION
GB	BOILER GAS PIPE	TMV	THERMOSTATIC MIXING VALVE
GG	GENERATOR GAS PIPE	T.S.	TAMPER SWITCH
GD	DRYER GAS PIPE	UR.	URINAL
GR	RESIDENTIAL GAS PIPE	U.A.S.W.	UNDER ANOTHER SECTION OF THE WORK
G.V.	GATE VALVE	U.O.N.	UNLESS OTHERWISE NOTED
G.W.	GREASE WASTE	VAL. O. / V.O.	VALVED OUTLET
H.C.	HUNG CEILING	VTR	VENT THRU ROOF
H.R.	HOSE RACK	V.P.O.	VENT PLUGGED OUTLET
INV.	INVERT	V	VENT
LAV./L	LAVATORY	W.A.	WALL AREA
		WM	WASH MACHINE
		WC	WATER CLOSET
		W/SAN	WASTE
		C.M.	COFFEE MAKER
		I.M.	ICE MAKER
		EWC	ELECTRIC WATER COOLER

STACK & RISER SYMBOLS

- (P) SOIL WASTE & VENT STACKS & WATER RISERS
- (L) STORM LEADER
- (G) GAS RISER
- P-### / # — SEE DRAWING NUMBER / SEE PART PLAN NUMBER
- # — SHEET NOTE

PLUMBING DRAWING LIST

Sheet No	Description	90% CD ISSUE - 09-15-2017
P-001	PLUMBING NOTES, SYMBOLS, LEGEND AND DRAWINGS LIST	●
P-002	PLUMBING ELEVATION SUMMARY	●
P-099	PLUMBING UNDERGROUND PLAN	●
P-100	PLUMBING CELLAR FLOOR PLAN	●
P-101	PLUMBING GROUND FLOOR PLAN	●
P-102	PLUMBING 2ND FLOOR PLAN	●
P-103	PLUMBING 3RD FLOOR PLAN	●
P-104	PLUMBING 4TH FLOOR PLAN	●
P-105	PLUMBING 5THFLOOR PLAN	●
P-106	PLUMBING 6TH FLOOR PLAN	●
P-107	PLUMBING 7TH FLOOR PLAN	●
P-108	PLUMBING 8TH TO 19TH FLOORS PLAN	●
P-120	PLUMBING 20TH TO 34TH FLOOR PLAN	●
P-135	PLUMBING 35TH FLOOR PLAN	●
P-136	PLUMBING 36TH FLOOR PLAN	●
P-137	PLUMBING 37TH FLOOR PLAN	●
P-138	PLUMBING 38TH TO 50TH FLOORS PLAN	●
P-151	PLUMBING 51ST TO 61ST FLOORS PLAN	●
P-162	PLUMBING 62ND FLOOR PLAN	●
P-163	PLUMBING 63RD TO 66TH FLOORS PLAN	●
P-167	PLUMBING 67TH FLOOR PLAN	●
P-168	PLUMBING 68TH/ROOF FLOOR PLAN	●
P-301	PLUMBING SANITARY RISER DIAGRAM SHEET #1	●
P-302	PLUMBIGN SANITARY RISER DIAGRAM SHEET #2	●
P-303	PLUMBING SANITARY RISER DIAGRAM SHEET #3	●
P-311	PLUMBING WATER RISER DIAGRAM SHEET #1	●
P-312	PLUMBIGN WATER RISER DIAGRAM SHEET #2	●
P-313	PLUMBING WATER RISER DIAGRAM SHEET #3	●
P-321	PLUMBING GAS & STORM RISER DIAGRAM SHEET #1	●
P-322	PLUMBIGN GAS & STORM RISER DIAGRAM SHEET #2	●
P-323	PLUMBING GAS & STORM RISER DIAGRAM SHEET #3	●
P-401	PLUMBING SCHEDULES SHEET	●
P-501	PLUMBING DETAIL SHEET #1	●
P-502	PLUMBING DETAIL SHEET #2	●
P-601	PLUMBING SD1&2 PLAN	●
P-602	PLUMBING GAS SERVICE POE PLAN	●

2014 NYC ENERGY CONSERVATION CODE NOTES: STATEMENT OF COMPLIANCE:

TO THE BEST OF MY KNOWLEDGE, AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2014 NEW YORK CITY ENERGY CONSERVATION CODE.

MANDATORY PROVISIONS:

1. WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 IN THE 2014 NYC ECC. (NYC ECC C404.2)
2. SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS ALLOWING A SETPOINT OF 110 DEGREES F FOR DWELLING UNITS AND 90 DEGREES F FOR OTHER OCCUPANICES. PUBLIC REST ROOM LAVATORIES SHALL HAVE A MAXIMUM OUTLET TEMPERATURE OF 110 DEGREES F. (NYC ECC C404.3)
3. WHERE WATER HEATING EQUIPMENT SERVING NONCIRCULATING SYSTEMS IS NOT SUPPLIED WITH INTEGRAL HEAT TRAPS, HEAT TRAPS SHALL BE PROVIDED ON THE SUPPLY AND DISCHARGE PIPING. (NYC ECC C404.4)
4. AUTOMATIC CIRCULATING HOT WATER SYSTEM PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION WITH A CONDUCTIVITIY NOT EXCEEDING 0.27 BTU PER INCH/H X FT X FT X DEGREE F, OR THE INSULATION REQUIREMENTS OF SPECIFICATION SECTION 22 07 19, WHICHEVER IS GREATER. THE FIRST 8 FEET OF PIPING IN NONCIRCULATING SYSTEMS WITH EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATD WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT X FT X DEGREE F, OR THE INSULATION REQUIREMENTS OF SPECIFICATION SECTION 22 07 19, WHICHEVER IS GREATER. (NYC ECC C404.5)
5. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS. (NYC ECC C404.6)
6. THE POOL HEATERS SHALL BE EQUIPPED WITH AN ON–OFF SWITCH THAT ALLOWS SHUTTING OFF THE HEATER WITHOUT ADJUSTING THE THERMOSTAT SETTING. GAS FIRED POOL HEATERS SHALL NOT HAVE A CONTINUOUSLY BURNING PILOT LIGHT. (NYC ECC C404.7.1)
7. THE POOL HEATERS SHALL BE EQUIPPED WITH TIME SWITCHES. THE POOL PUMPS ARE NOT PROVIDED WITH TIME SWITCHES. THESE PUMPS OPERATE ON A 24/7 BASIS AS REQUIRED BY NYC HEALTH CODE ARTICLE 165 – BATHING ESTABLISHMENTS. (NYC ECC C404.7.2)
8. A VAPOR–RETARDANT POOL COVER AT THE WATER SURFACE SHALL BE PROVIDED. (NYC ECC C404.7.3)

NYC BUILDING DEPARTMENT PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, WATER DISTRIBUTION, AND GAS) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE NEW YORK CITY PLUMBING CODE. 1. EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES COMPLIANCE WITH THE FULL PROVISIONS OF ALL NEW YORK CITY BUILDING AND PLUMBING CODE ACCESSIBILITY REQUIREMENTS AND PLUMBING FIXTURE FLOW REQUIREMENTS OF THE 2014 NEW YORK CITY PLUMBING CODE.

1. THE SANITARY SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC301.
2. THE MATERIALS USED IN THE PLUMBING SYSTEMS WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTIONS PC302 AND PC303.
3. EQUIPMENT HOOK–UP AND THE JOINING WILL BE FULL COMPLIANCE WITH SECTIONS PC605 AND PC705.
4. THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE WITH PC CHAPTER 4.
5. TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED AND CLEANOUTS INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC412, PC708 AND PC CHAPTER 10.
6. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND WITH THE FULL COMPLIANCE WITH SECTION PC308.
7. THE WATER SUPPLY SYSTEMS OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH PC CHAPTER 6.
8. SHOCK ABSORBERS SHALL BE PROVIDED IN FULL COMPLIANCE WITH PC 604.9 WHERE ALL QUICK CLOSING VALVES ARE INSTALLED AND ALL EQUIPMENT CONTAINING QUICK CLOSING SOLENOID VALVES SUCH AS ICE MAKERS, COFFEE MACHINES, DISHWASHERS, CLOTHES WASHERS, ELECTRONIC OPERATED FLUSH VALVES AND FAUCETS, AND SHOWER MIXING VALVES THAT HAVE A SINGLE LEVER HANDLE.
9. THE SANITARY DRAINAGE SYSTEM WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 7.
10. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC702 & PC CHAPTER 9.
11. THE STORM DRAINAGE SYSTEM AND PIPING WILL BE INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 11.
12. GAS PIPING AND EQUIPMENT WILL BE INSTALLED IN FULL COMPLIANCE WITH THE NEW YORK CITY FUEL GAS CODE.
13. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC306.
14. RAT PROOFING SHALL BE IN ACCORDANCE WITH SECTION PC304.
15. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR CONSTRUCTION PERSONNEL AS PER SECTION PC311.

PLUMBING INSTALLATION CRITERIA

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

1. PROVIDE ROUGH–IN AND FINAL CONNECTIONS FOR ALL PLUMBING FIXTURES INCLUDING WASTE, VENTS, HOT AND COLD WATER, AND PROVIDE ALL PLUMBING WORK NECESSARY TO MAKE THE PANTRY, ELECTRIC WATER COOLER(S) BATH, ETC. ENTIRELY OPERABLE AND ACCEPTABLE TO LOCAL HEALTH AND BUILDING OFFICIALS.
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE BASE BUILDING SPECIFICATIONS AND IN CONFORMANCE WITH THE BUILDING'S RULES AND REGULATIONS. CONTRACTORS ARE REQUIRED TO OBTAIN A COPY OF THE BUILDING REQUIREMENTS IN WHICH ALL OF THE CONDITIONS AND PROVISIONS WITH RESPECT TO THIS PROJECT SHALL BE ANNEXED HERETO AND MADE A PART HEREOF.
3. PLUMBING CONTRACTOR SHALL LOCATE ALL PIPING AND PLUMBING ROUGH–IN FOR PLUMBING FIXTURES IN ACCORDANCE WITH ROUGH–IN DRAWINGS PROVIDED BY EQUIPMENT MANUFACTURERS.
4. ALL VISIBLY EXPOSED PIPE TO EQUIPMENT SHALL BE CHROME PLATED BRASS.
5. PROVIDE SHUT–OFF VALVES FOR EACH PLUMBING FIXTURE AND PIECE OF EQUIPMENT.
6. PROVIDE TRAPS ON ALL WASTE PIPING FROM PLUMBING FIXTURES AND PIECE OF EQUIPMENT.
7. COORDINATE POSITION OF SLEEVES AND OPENINGS THROUGH FLOOR WITH THE GENERAL CONTRACTOR.
8. PROVIDE VACUUM BREAKERS AND CHECK VALVES FOR THE PLUMBING FIXTURES WHERE AND WHEN REQUIRED BY CODE.
9. ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. HANGER AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE IN PLUMBING SYSTEMS.

9.A. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.

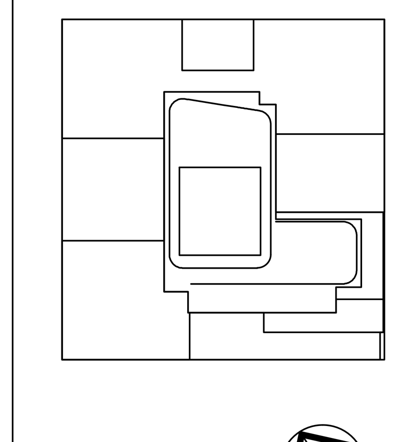
9.B. NO PLUMBING PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION, SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.

10. PLUMBING FIXTURES TO BE APPROVED BY THE GENERAL CONTRACTOR AND INSTALLED BY THE PLUMBING CONTRACTOR.
11. PLUMBING FIXTURES SHALL BE AS SPECIFIED BY ARCHITECT. 11. ALL PLUMBING FIXTURES SPECIFIED BY THE ARCHITECT. SEE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, DETAILS AND ELEVATIONS OF THE PANTRY, BATH, ETC. FOR REQUIRED PLUMBING CONNECTIONS.
12. PANTRY EQUIPMENT SHALL BE PROVIDED WITH FLEXIBLE STAINLESS STEEL HOSES FOR FINAL SUPPLY PIPING FROM SHUT–OFF/ISOLATION VALVES.
13. PLUMBING CONTRACTOR SHALL PROVIDE MANUAL AIR VENT VALVE AT ALL WATER PIPING HIGH POINTS TO PREVENT AIR BINDING.
14. EVERY SHUT–OFF VALVE MUST BE IDENTIFIED WITH VALVE TAGS PER BUILDING STANDARDS.
15. PIPING INSULATION SHALL BE PROTECTED FROM HANGERS, GUIDES, AND ROLLERS BY A 180 DEGREE SHIELD ON THE OUTSIDE OF THE INSULATION AND VAPOR BARRIER. A HALF SECTION OF WATERPROOF, CALCIUM SILICATE, HIGH–DENSITY INSULATION OF THE SAME THICKNESS AND THE PIPE INSULATION, AND FULL LENGTH OF THE SHIELD SHALL BE USED TO SUPPORT THE WEIGHT OF THE PIPE AT THE SHIELD.

15.A. PIPE SIZE SHIELD LENGTH :

PIPE SIZE	SHIELD LENGTH
1–1/2 INCHES TO 2–1/2 INCHES	10 INCHES
3 INCHES TO 6 INCHES	12 INCHES
8 INCHES TO 10 INCHES	16 INCHES
12 INCHES AND OVER	22 INCHES

16. GAS RISERS SHALL NOT BE INSTALLED WITHIN RATED WALL CONSTRUCTION.
17. PROVIDE ACOUSTICAL INSULATION AND SUPPORTS FOR WASTE, STORM AND DOMESTIC WATER PIPING AS REQUIRED BY ACOUSTICAL CONSULTANT SPECIFICATIONS.



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
NOTES, SYMBOLS, LEGEND AND DRAWING LIST

SEAL & SIGNATURE: STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
DWG NO. P-001.00
OF

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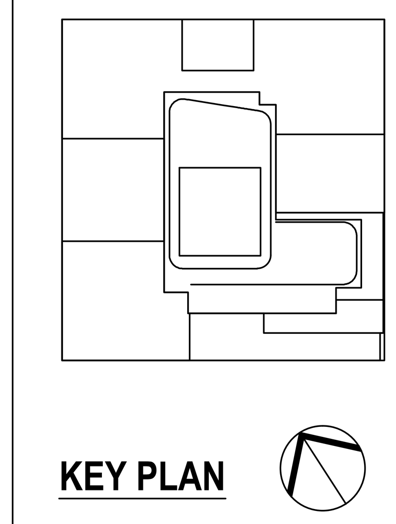
FILE NAME: ...150318_P-001.dwg SAVED ON 10/5/2017 2:13 PM PLOTTED ON 10/12/2017 11:48 AM PLOTTED BY ZILBERMAN, ALEX

DOMESTIC WATER SYSTEM ZONING

Floor	Bldg. Elevation	Floor El	Fill Pump Pressure	Gravity tank pressure	Penthouse Booster Pump	System Pressure Zone #6	System Pressure Zone #5	System Pressure Zone #4	System Pressure Zone #3	System Pressure Zone #2	System Pressure Zone #1	Notes
T.O. Tower	777.8		0.0	0								
70 BMU	759.8	18.0	7.8	0	22.7							
69 EMR	747.3	12.5	13.2	0	30.5							
68 Roof	737.8	9.5	17.3	5	35.9							1. Cooling tower supply
67 MEP	719.3	18.5	25.3	13.0	40	42						1. Zone #6 Gas Fired water heater assembly 2. Penthouse booster pump w/ outlet pressure of 42 PSI. 3. Cushion tank. 4. RPZ & meter for cooling tower supply.
66	707.3	12.0	30.5	18.2	45.2	47.2						1. Zone #6 CW, HW & HWR distribution.
65	696.3	11.0	35.3	23.0	50.0	52.0						
64	685.3	11.0	40.0	27.7	54.7	56.7						
63	674.3	11.0	44.8	32.5	59.5	61.5						
62	661.1	13.2	50.5	38.2	65.2	67.2						1. Fire Water Tank (15,000 Gallons) - take-off from fill pump line. Each tank compartment shall be provided with solenoid and float valve to control tank fill.
61	650.1	11.0	55.3	43.0	69.9	71.9						
60	640.3	9.8	59.5	47.2	74.2	76.2						
59	630.4	9.8	63.8	51.5	78.5	80.5						
58	620.6	9.8	68.0	55.7	82.7	84.7						
57	610.8	9.8	72.3	60.0			35					
56	600.9	9.8	76.6	64.2			39.3					
55	591.1	9.8	80.8	68.5			43.5					
54	581.3	9.8	85.1	72.7			47.8					
53	571.4	9.8	89.3	77.0			52.0					
52	561.6	9.8	93.6	81.3			56.3					
51	551.8	9.8	97.8	85.5			60.5					
50	541.9	9.8	102.1	89.8			64.8					
49	532.1	9.8	106.3	94.0			69.1					
48	522.3	9.8	110.6	98.3			73.3					
47	512.4	9.8	114.9	102.5			77.6					
46	502.6	9.8	119.1	106.8			81.8					
45	491.6	11.0	123.9	111.6			86.6	40				1. Zone #5 CW, HW & HWR distribution.
44	481.8	9.8	128.1	115.8			90.84	44.3				
43	471.9	9.8	132.4	120.1			95.1	48.5				
42	462.1	9.8	136.7	124.3			99.36	52.8				
41	452.3	9.8	140.9	128.6			103.6	57.0				
40	442.4	9.8	145.2	132.8			107.9	61.3				
39	432.6	9.8	149.4	137.1			112.1	65.5				
38	422.8	9.8	153.7	141.4			116.4	69.8				
37	410.8	12.0	158.9	146.6			121.6	75.0				
36 MEP	390.3	20.5	167.7	155.4			130.5	83.9				1. Zone #3 Master PRV; inlet 154 PSI, outlet 30 PSI. 2. Zone #3 Indirect Water Heaters (Duplex - Emergency Power TBD) 3. Zone #4 Master PRV; inlet 154 PSI, outlet 85 PSI. 4. Zone #4 Indirect Water Heaters (Duplex - Emergency Power TBD) 5. Zone #4 CW, HW & HWR distribution. 6. Zone #5 Master PRV; Inlet 154 PSI, outlet 130 PSI. 7. Zone #5 Indirect Water Heaters (Duplex - Emergency Power TBD) 8. Fire Water Tank (22,000 Gallons)- take-off from fill pump line to be provided with PRV to reduce pressure from 170 PSI-to-65PSI. Each tank compartment shall be provided with solenoid and float valve to control tank fill.
35	378.3	12.0	172.9	160.6					33			1. Zone #3 CW, HW & HWR distribution.
34	368.4	9.8	177.2	164.9					37.3			
33	358.6	9.8	181.5	169.1					41.5			
32	348.8	9.8	185.7	173.4					45.8			
31	338.9	9.8	190.0	177.7					50.0			
30	329.1	9.8	194.2	181.9					54.3			
29	319.3	9.8	198.5	186.2					58.5			
28	309.4	9.8	202.7	190.4					62.8			
27	299.6	9.8	207.0	194.7					67.1			
26	289.8	9.8	211.3	198.9					71.3			
25	279.9	9.8	215.5	203.2					75.6			
24	270.1	9.8	219.8	207.5					79.8			
23	260.3	9.8	224.0	211.7					84.1			
22	249.3	11.0	228.8	216.5						33		1. Zone #2 CW, HW & HWR distribution.
21	239.4	9.8	233.0	220.7						37.3		
20	229.6	9.8	237.3	225.0						41.5		
19	219.8	9.8	241.6	229.2						45.8		
18	209.9	9.8	245.8	233.5						50.0		
17	200.1	9.8	250.1	237.8						54.3		
16	190.3	9.8	254.3	242.0						58.5		
15	180.4	9.8	258.6	246.3						62.8		
14	170.6	9.8	262.8	250.5						67.1		
13	160.8	9.8	267.1	254.8						71.3		
12	150.9	9.8	271.4	259.0						75.6		
11	141.1	9.8	275.6	263.3						79.8		
10	131.3	9.8	279.9	267.6						84.1		
9	121.4	9.8	284.1	271.8						88.34	32	
8	111.6	9.8	288.4	276.1						92.6	36.3	
7	99.6	12.0	293.6	281.3						97.79	41.5	
6	87.6	12.0	298.8	286.5						103	46.6	
5	75.6	12.0	304.0	291.7						108.2	51.8	
4 MER	62.3	13.3	309.7	297.4						113.9	57.6	Zone #1 CW, HW & HWR distribution.
3	50.3	12.0	314.9	302.6						119.1	62.8	1. Zone #1 Master PRV; inlet 309 PSI, outlet 62 PSI 2. Zone #1 Indirect Amenity Water heaters (TBD) 3. Zone #1 Indirect Water Heaters (Duplex - Emergency Power TBD) 4. Zone #2 Master PRV: inlet 309 PSI, outlet 120 PSI 5. Zone #2 Indirect Water Heaters (Duplex - Emergency power TBD) 6. reserved 7. Boiler Make-up water supply via meter & RPZ. 8. Meter & RPZ for pool equipment supply.
2	31.25	19.1	323.2	310.8							71.0	
1	15.58	15.7	329.9	317.6							77.8	
C1 MER	0.58	15.0	336.4	324.1							84.3	1. Combined Water service (4") w/ RPZ 2. Fire Standpipe water service (6") w/ RPZ 3. Sprinkler water service (6") w/ RPZ 4. VFD Triplex Tank Fill Pumps (each pump rated for 199 GPM @ 290 PSI) 5. 6" Tank Fill.

Zone #6 down feed from 66th fl
Zone #5 up feed from 45th fl
Zone #4 up feed from 36th fl
Zone #3 down feed from 35th fl
Zone #2 down feed from 22nd fl
Zone #1 split feed from 4th floor



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	08/23/2017	90% CD SET / DOB FILING SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
ELEVATION SUMMARY

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE:
PROJECT #: 150318
SCALE: N.T.S.
P-002.00
DWG NO.
OF

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DEPT OF BLDGS 420655954 Job Number

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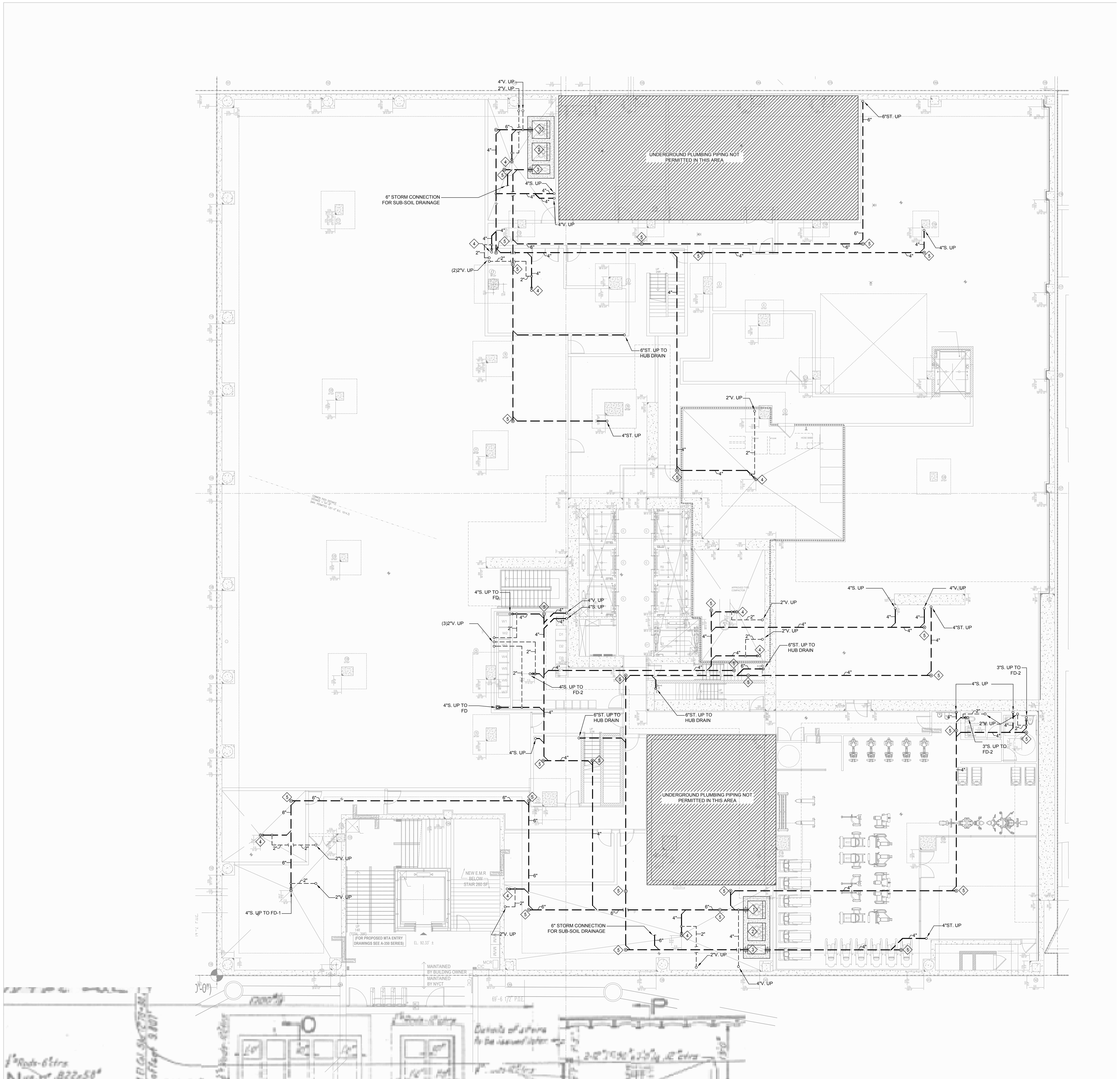
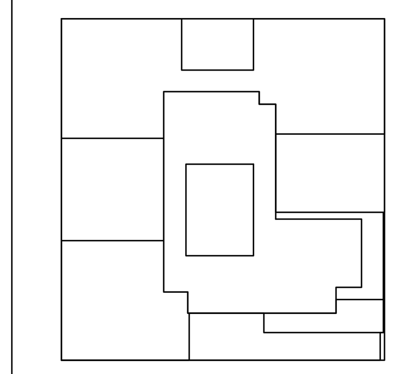


KEY NOTES:

1. 4'W x 4'L x 8'D SEWAGE EJECTOR PIT WITH AIR TIGHT, H-20 RATED COVER. COVER SHALL BE MADE WITH AN 8" STATIC SECTION FOR THE PIPING AND CONDUIT TRANSITION INTO THE PIT.
2. 4'W x 4'L x 8'D SUMP PUMP PIT WITH AIR TIGHT, H-20 RATED COVER. COVER SHALL BE MADE WITH AN 8" STATIC SECTION FOR THE PIPING AND CONDUIT TRANSITION INTO THE PIT.
3. 2'W x 4'L x 8'D SILT PIT WITH AIR TIGHT, H-20 RATED COVER. SILT PIT SHALL RECEIVE CLEAR WATER FROM SUB-SOIL/TILE DRAINAGE SYSTEM.
4. 4" SANITARY UP TO FD-1 FLOOR DRAIN. PROVIDE TRAP PRIMER CONNECTION TO THE TRAP OR FLOOR DRAIN.
5. 4" UP TO CODP (CLEAN OUT DECK PLATE). IF CODP IS IN CONFLICT WITH WALL, IT SHALL BE CHANGED TO CLEAN OUT WALL PLATE.

GENERAL NOTES:

1. COORDINATE ALL UNDERGROUND PIPING WITH FOUNDATION. PROVIDE SLEEVES AS REQUIRED THROUGH FOUNDATION BEAMS & TRENCH FOUNDATION SLABS IF REQUIRED TO INSTALL PIPING.
2. ALL COMPONENTS OF SUPPORTS FOR UNDERGROUND PIPING SHALL BE STAINLESS STEEL.
3. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTIONS AND TUBING EXTENSIONS UP TO THE CELLAR FLOOR. INSTALL TRAP PRIMERS IN ACCESSIBLE BACK OF THE HOUSE LOCATION (PREFERABLY MECHANICAL/MAINTENANCE TYPE SPACE).



KEY PLAN

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	02/03/2017	PROGRESS PRINT
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
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DOB STAMPS & SIGNATURES:

DWG TITLE:

PLUMBING
UNDERGROUND PLAN

SEAL & SIGNATURE:

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DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"

P-099.00
DWG NO.

00 OF 58

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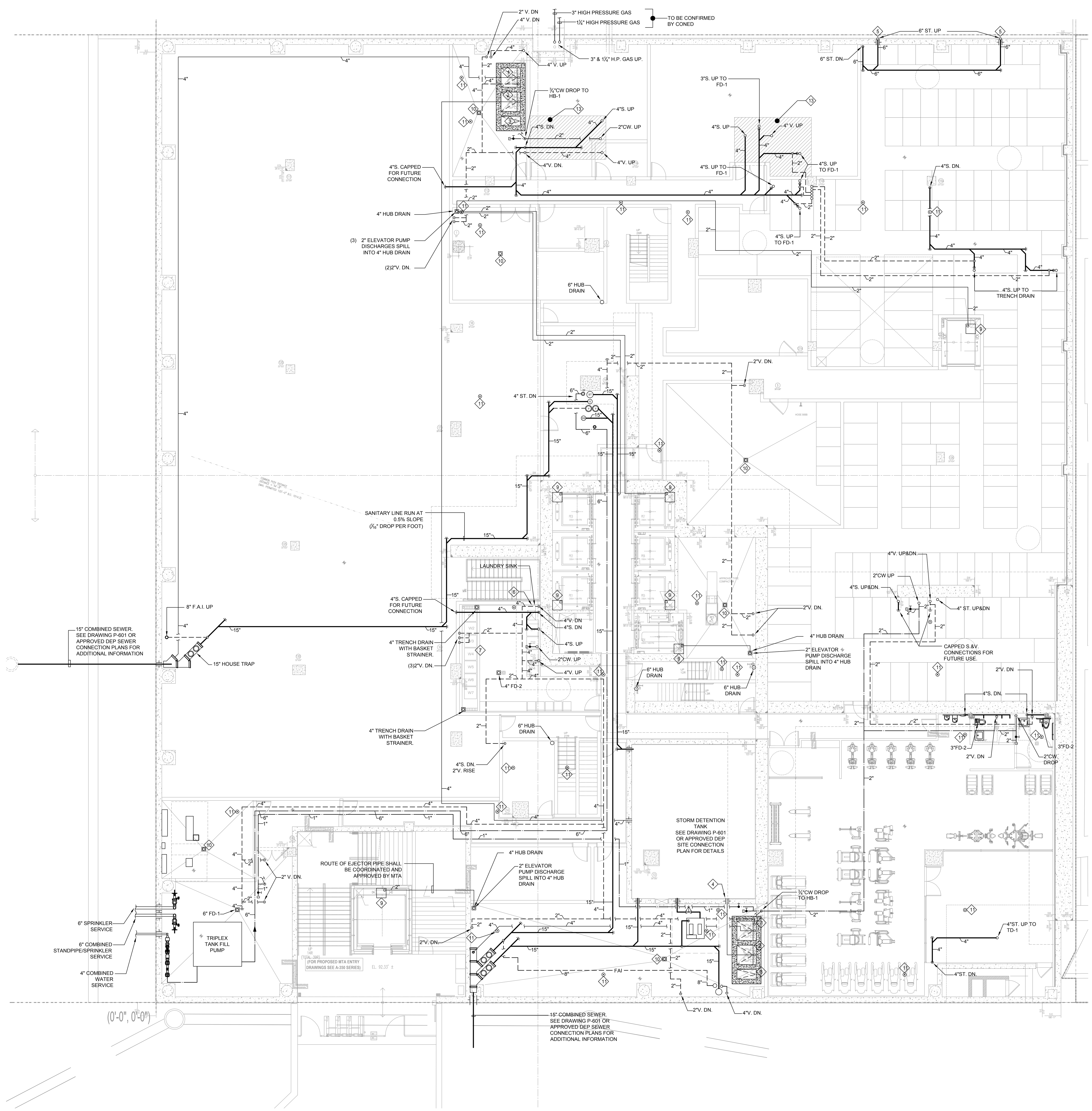


KEY NOTES:

1. 4'W x 4'L x 8'D SEWAGE EJECTOR PIT WITH AIR TIGHT, H-20 RATED COVER. COVER SHALL BE MADE WITH AN 8" STATIC SECTION FOR THE PIPING AND CONDUIT TRANSITION INTO THE PIT.
2. 4'W x 4'L x 8'D SUMP PUMP PIT WITH AIR TIGHT, H-20 RATED COVER. COVER SHALL BE MADE WITH AN 8" STATIC SECTION FOR THE PIPING AND CONDUIT TRANSITION INTO THE PIT.
3. 2'W x 4'L x 8'D SILT PIT WITH AIR TIGHT, H-20 RATED COVER. SILT PIT SHALL RECEIVE CLEAR WATER FROM SUB-SOIL/TILE DRAINAGE SYSTEM.
4. 4" SUMP PUMP DISCHARGE SPILL AT TOP OF THE DETENTION TANK.
5. LOADING DOCK TRENCH DRAIN LOCATION AND PIPE ROUTE THROUGH FOUNDATION WALL TO BE COORDINATED. CONTRACTOR TO ASSUME THAT DRAIN WILL FALL OUTSIDE FOUNDATION WALL AND PENETRATE FOUNDATION WALL VIA WATER TIGHT SLEEVE.
6. PROVIDE 6KW INSTANTANEOUS WATER HEATER FOR HOT WATER SUPPLY TO FAUCET.
7. HOT AND COLD WATER SUPPLY TO WASHING MACHINES SHALL BE PROVIDED VIA AN RPZ AND METER. HOT WATER FEED WILL BE FROM AMENITIES WATER HEATER LOCATED ON 3RD FLOOR.
8. RESERVED
9. 2'X2'X2' ELEVATOR SUMP PIT WITH SUMP PUMP. ARCHITECT TO PROVIDE GRATING/COVER FOR THE PIT. SUMP PUMPS SHALL DISCHARGE INDIRECTLY TO SANITARY SYSTEM. ELEVATOR SUMP PUMP SERVING HYDRAULIC ELEVATOR SHALL BE PROVIDED WITH OIL MINDERS.
10. 4" FD-1
11. PROVIDE CODP. IF CLEAN OUT IS IN CONFLICT WITH WALL, IT SHALL BE CHANGED TO CLEAN OUT WALL PLATE.
12. EXPRESS PLUMBING RISERS
13. PLUMBING PIPING IS NOT PERMITTED IN ELECTRICAL/IT ROOM. ARCHITECT TO PROVIDE WATER TIGHT & FIRE RATED ENCLOSURE FOR THE PIPING.
14. CONCRETE STORM DETENTION TANK
MINIMUM FOOTPRINT 800 SQ. FT.
HEIGHT: 14'-0"
USABLE DETENTION DEPTH: 6'-0"
REQUIRED DETENTION VOLUME: 5,000 CU. FT.
(PRESSURE RATED TO WITHSTAND MINIMUM 25' HEAD OF WATER)
PUMP LEVEL CONTROLS IN TANK SHALL BE SET AS FOLLOWS:

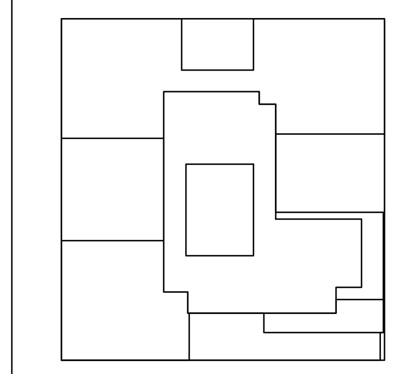
9.0' NAVD1988	HIGH LEVEL ALARM
8.0' NAVD1988	2ND PUMP ON
4.0' NAVD1988	1ST PUMP ON
2.0' NAVD1988	ALL PUMPS OFF

*PUMPS SHALL BE PROVIDED WITH EMERGENCY POWER

15. PRESSURE RATED SIDE WALL ACCESS HATCHES TO BE SPECIFIED BY ARCHITECT. ACCESSIBILITY TO THE HATCHES SHALL BE DESIGNED BY ARCHITECT. HATCHES SHALL BE PROVIDED WITH TAMPER SWITCH WHICH SHALL BE TIED INTO BUILDINGS BMS SYSTEMS FOR NOTIFICATION IN EVENT THE HATCH IS OPEN. (RATED FOR MIN. 25' HEAD OF WATER)
16. 15" DETENTION TANK VENT/OVERFLOW PIPING SET DOWN INTO THE TANK VIA LINK-SEALED CONNECTION AND RISE UP THROUGH 1ST FLOOR SLAB. PIPING SHALL BE GALVANIZED SCHEDULE 40 STEEL.

GENERAL NOTES:

1. LOCATIONS OF SEWERS, WATER SERVICES & GAS SERVICES ARE PRELIMINARY. EXACT LOCATION SHALL BE DETERMINED BY UTILITY COMPANIES, DEP AND MTA.
2. CIVIL ENGINEER TO REVIEW ALL UTILITY LOCATIONS FOR CONFLICTS WITH EXISTING CONDITIONS OUTSIDE OF THE PROPERTY LINE.
3. SIZE AND SHAPE OF GAS METER ROOM MAY REQUIRE TO BE MODIFIED ONCE UTILITY COMPANY PROVIDES SELECTIONS AND REQUIREMENTS OF GAS METERS.
4. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
5. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
6. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
7. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
8. HUB DRAINS IN THE STAIRS SHALL BE USED EXCLUSIVELY AS CLEAR WATER WASTE COLLECTORS FROM FIRE PROTECTION SYSTEM. FIRE PROTECTION DRAIN RISER SHALL BE HARD PIPED TO THE HUB DRAIN.
9. PLUMBING RISER TAGS TO BE PROVIDED AT THE LATER DATE.



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	02/03/2017	PROGRESS PRINT
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:

HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:

DESIMONE CONSULTING ENGINEERS
140 Broadway 25th Floor
New York, NY, 10005
(212) 532-2211

Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:

PLUMBING
CELLAR FLOOR PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE:	01/18/2017
PROJECT #:	150318
SCALE:	1/8" = 1'-0"
DWG NO.	P-100.00

00 OF 58

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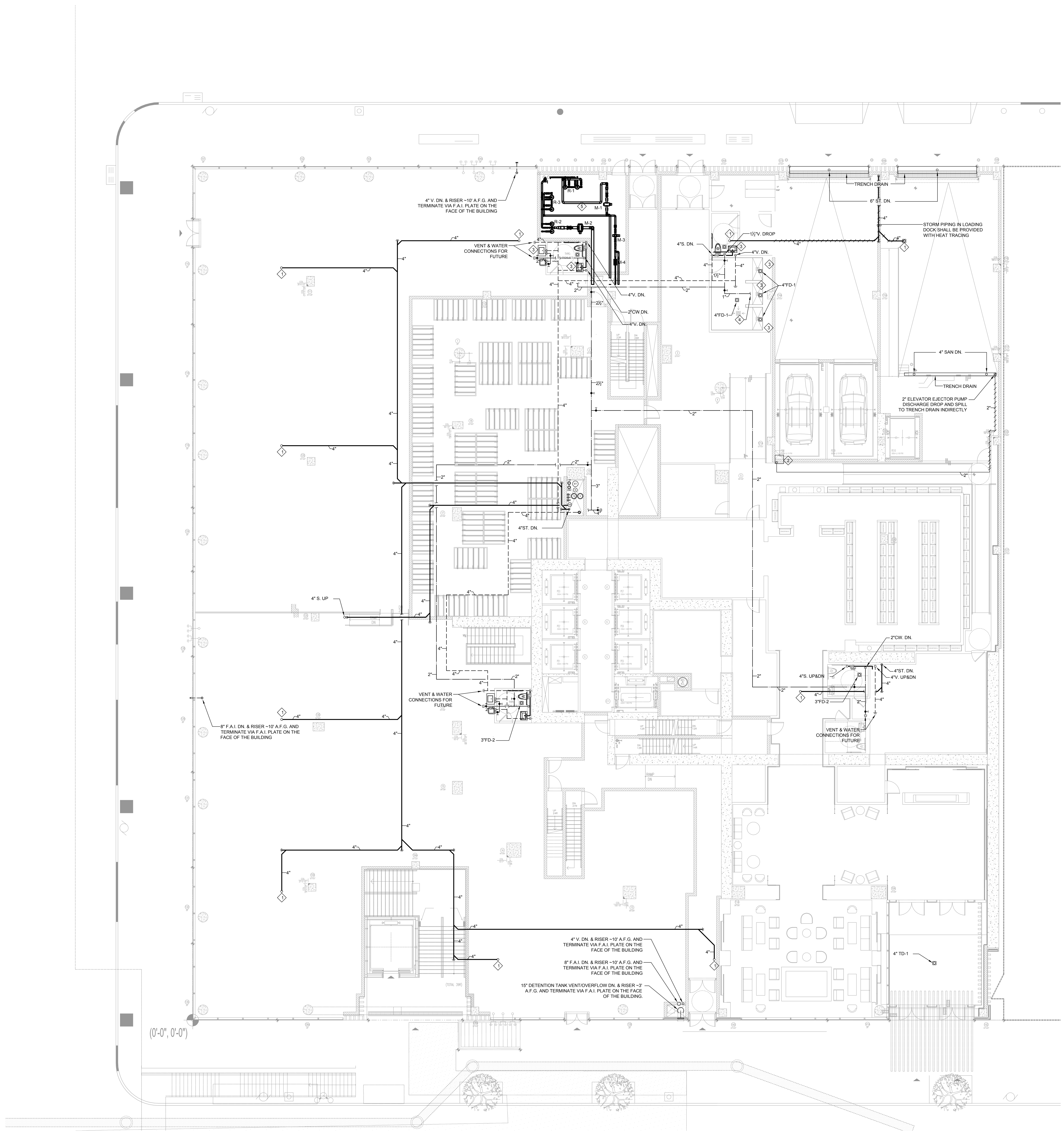
FILE NAME I:\150318\PLUM\150318_P-100.dwg SAVED ON 2/3/2017 3:42 PM PLOTTED ON 2/3/2017 4:41 PM PLOTTED BY NEUMAN, BRIAN

DEPT OF BLDGS 420655954 Job Number

Scan Code

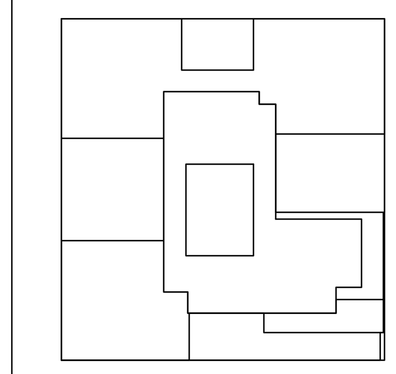


KEY NOTES:

1. 4" ST. UP TO AD-1
2. 2'X2'X2' ELEVATOR SUMP PIT WITH SUMP PUMP. ARCHITECT TO PROVIDE GRATING/COVER FOR THE PIT. SUMP PUMPS SHALL DISCHARGE INDIRECTLY TO SANITARY SYSTEM. ELEVATOR SUMP PUMP SERVING HYDRAULIC ELEVATOR SHALL BE PROVIDED WITH OIL MINDERS.
3. PROVIDE 6KW INSTANTANEOUS WATER HEATER FOR HOT WATER SUPPLY TO FAUCET.
4. 1" CW SUPPLY TO PET BATH STATION FAUCETS. TYPE OF FAUCETS SHALL BE DETERMINED BY ARCHITECT. HOT WATER SUPPLY TO FAUCET SHALL BE VIA INSTANTANEOUS POINT OF USE ELECTRIC WATER HEATER.
5. GAS METER ROOM EQUIPMENT (TO BE PROVIDED BY CONED AND ROUGH IN BY CONTRACTOR):
   - R-1 TWIN REGULATOR FOR GENERATOR. 1PSI OUTLET PRESSURE.
   - R-2 SINGLE REGULATOR FOR BOILERS, 14" W.C. OUTLET PRESSURE.
   - R-3 TWIN REGULATOR FOR RESIDENTIAL, 6" W.C. OUTLET PRESSURE.
   - M-1 SINGLE METER FOR GENERATOR
   - M-2 SINGLE METER FOR BOILERS
   - M-3 TWIN METER FOR RESIDENTIAL
   - M-4 SINGLE METER FOR COMMERCIAL LAUNDRY

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. PLUMBING RISER TAGS TO BE PROVIDED AT THE LATER DATE.



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DOB STAMPS & SIGNATURES:

DWG TITLE:

PLUMBING
GROUND FLOOR PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
DWG NO. P-101.00

00 OF 58

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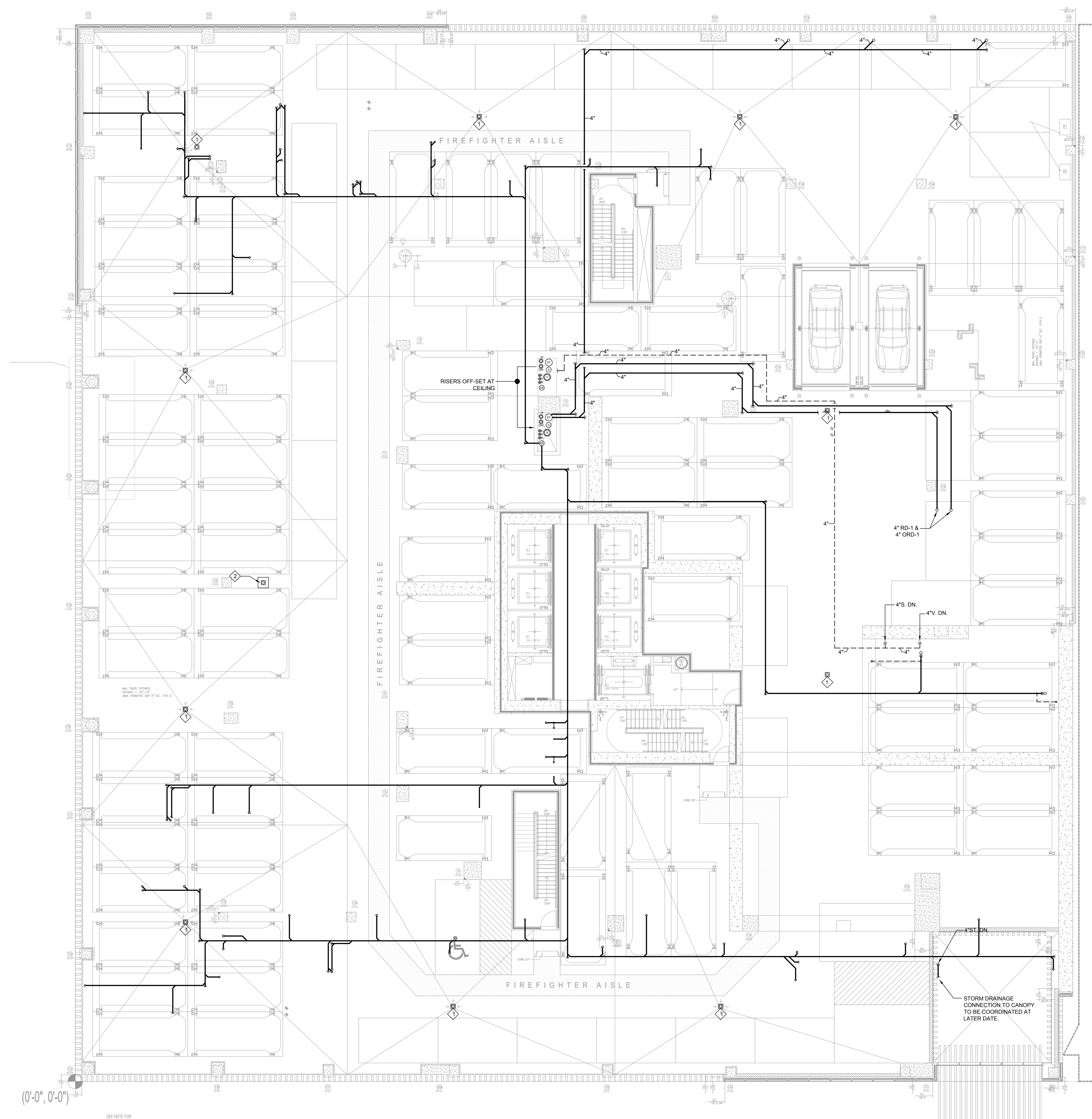
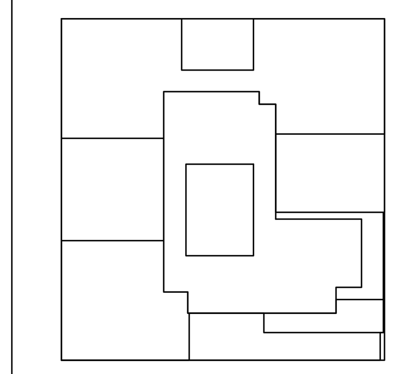


KEY NOTES:

1. 4" AD-1 AREA DRAINS.
2. 4" FD-1 PROVIDED WITH 2'X2'X1'H BASIN TO RECEIVE INDIRECT WASTE DRAINAGE FROM THE POOL SYSTEM EQUIPMENT AND DRAINS.
3. 4" SAN. UP TO FD-1
4. ¾" COLD WATER DROP TO HOSE BIB HB-1 W/ VACUUM BREAKER. HOSE BIB AND PIPING SHALL BE FASTENED TO THE COLUMN/WALL.

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. PLUMBING RISER TAGS TO BE PROVIDED AT THE LATER DATE.



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DOB STAMPS & SIGNATURES:

DWG TITLE:

PLUMBING
2ND FLOOR PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 01/18/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
DWG NO. P-102.00
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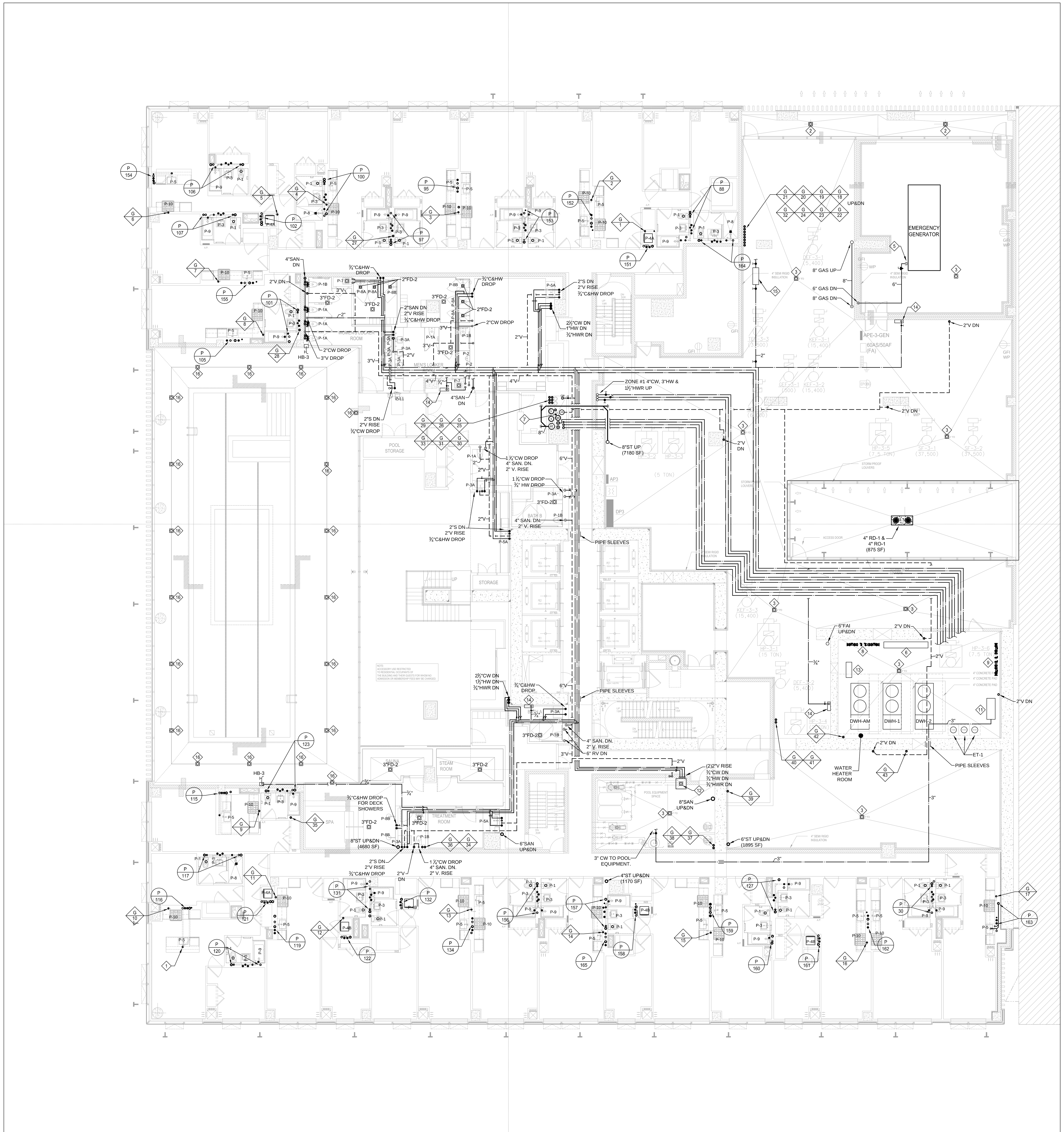
ES378438776 Scan Code



KEY NOTES:

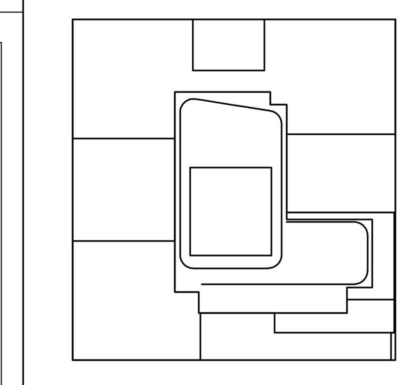
1. PROVIDE CW & HW TO ISLAND SINK FROM THE FLOOR BELOW. PROVIDE BOW VENT FOR THE ISLAND SINK, SEE DETAILS FOR INFORMATION.
2. 3" FD-1 PLENUM DRAINS TO BE CONNECTED TO STORM SYSTEM.
3. 4" FD-1
4. ¾" COLD WATER DROP TO HOSE BIB HB-1 W/ VACUUM BREAKER. HOSE BIB AND PIPING SHALL BE FASTENED TO THE COLUMN/WALL.
5. 6" GAS SUPPLY TO GENERATOR. CONTRACTOR SHALL EXTEND GAS PIPING TO THE INLET FUEL INLET OF THE GENERATOR AND PROVIDE A READILY ACCESSIBLE SHUT-OFF VALVE AS PER NYCFGC 2014.
6. SPACE RESERVED FOR CIRCULATION PUMPS AND MIXING VALVES.
7. EXPRESS SHAFT

V	12" VENT UP & DOWN
TF	6" TANK FILL UP & DOWN
DW	6" DOMESTIC WATER UP
ST	15" STORM UP & DOWN
S	12" SANITARY UP & DOWN
SS	12" SANITARY UP & DOWN (LOW ZONE 7TH-TO-36TH FLOORS)
VS	12" VENT UP & DOWN (LOW ZONE)
G	4" GAS UP & DOWN
CW	4" COLD WATER DOWN
C	4" COLD WATER UP (ZONE #2)
H	3" HOT WATER UP (ZONE #2)
R	1½" HOT WATER RETURN UP (ZONE #2)

8. AMENITY ZONE & ZONE #1 PRV STATION. INLET PRESSURE 309 PSI, OUTLET PRESSURE 63 PSI. RATED AT MAXIMUM 250 GPM FLOW.
9. ZONE #2 PRV STATION. INLET PRESSURE 309 PSI, OUTLET PRESSURE 120 PSI. RATED MAXIMUM 200 GPM FLOW.
10. CW, HW, HWR & V SUPPLY TO AMENITIES PLUMBING FIXTURES. DISTRIBUTION TO BE PROVIDED IN THE FUTURE.
11. 3" METER & RPZ SUPPLIED FROM ZONE #1 PRV STATION. THIS STATION IS DEDICATED FOR WATER SUPPLY TO POOL EQUIPMENT.
12. 4" FD-1 PROVIDED WITH 2'X2'X1'H BASIN (MOP SINK) TO RECEIVE INDIRECT WASTE DRAINAGE FROM THE POOL SYSTEM EQUIPMENT AND DRAINS.
13. 4" METER & RPZ SUPPLIED FROM ZONE #1 PRV STATION. THIS STATION IS DEDICATED FOR WATER SUPPLY TO AMENITIES AND RETAIL TENANTS.
14. ELECTRONIC TRAP PRIMER SIOUX CHIEF-E SERIES. TRAP PRIMER TO BE SUPPLIED WITH 3/4" CW. CONTRACTOR SHALL EXTEND TYPE L COPPER TUBING TO ALL FLOOR DRAINS IN THE VICINITY. TUBING SHALL BE MILL WRAPPED, WHEN INSTALLED BELOW GRADE OR IN SLAB.
15. 2" METER & RPZ SUPPLIED FROM AMENITY ZONE. THIS STATION IS DEDICATED FOR WATER SUPPLY TO HVAC EQUIPMENT ON 3RD & 4TH FLOOR MECHANICAL ROOMS. COORDINATE WITH MECHANICAL CONTRACTOR AND EXTEND 2" PIPING TO ALL MECHANICAL EQUIPMENT THAT REQUIRES WATER MAKE-UP.
16. 3" FD-4 LINEAR DRAIN CONNECTED TO INDIRECT WASTE SYSTEM ON THE FLOOR BELOW. DRAIN SELECTION AND INSTALLATION DETAILS TO BE PROVIDED BY ARCHITECT.

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.
8. PROVIDE SLEEVES FOR ALL HORIZONTAL PIPES CROSSING THROUGH BEAMS & SHEAR WALLS.
9. PROVIDE SLEEVES FOR ALL VERTICAL RISERS IN MECHANICAL ROOMS.
10. ALL SLEEVES FOR DOMESTIC WATER PIPES SHALL BE 2 PIPE SIZES LARGER TO ALLOW FOR PROPER INSULATION INSTALLATION.
11. ALL SLEEVES FOR WASTE, STORM & VENT PIPING SHALL BE 1 PIPE SIZE LARGER FOR PROPER INSTALLATION.
12. ALL PLUMBING FLOOR MOUNTED EQUIPMENT SHALL BE PROVIDE WITH 4" CONCRETE HOUSEKEEPING PADS. PADS SHALL EXTEND MINIMUM 3" FROM THE FOOTPRINT OF THE EQUIPMENT.
13. WATER HEATER ROOM TO BE DETAILED AT THE FUTURE DATE. SEE DETAIL SHEETS FOR TYPICAL WATER HEATER PIPING & ACCESSORIES ARRANGEMENT.



KEY PLAN

NOTES:

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Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
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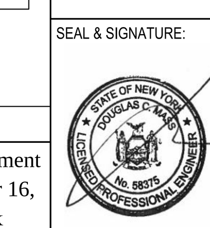
DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
3RD FLOOR PLAN

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
P-103.00
DWG NO.
OF

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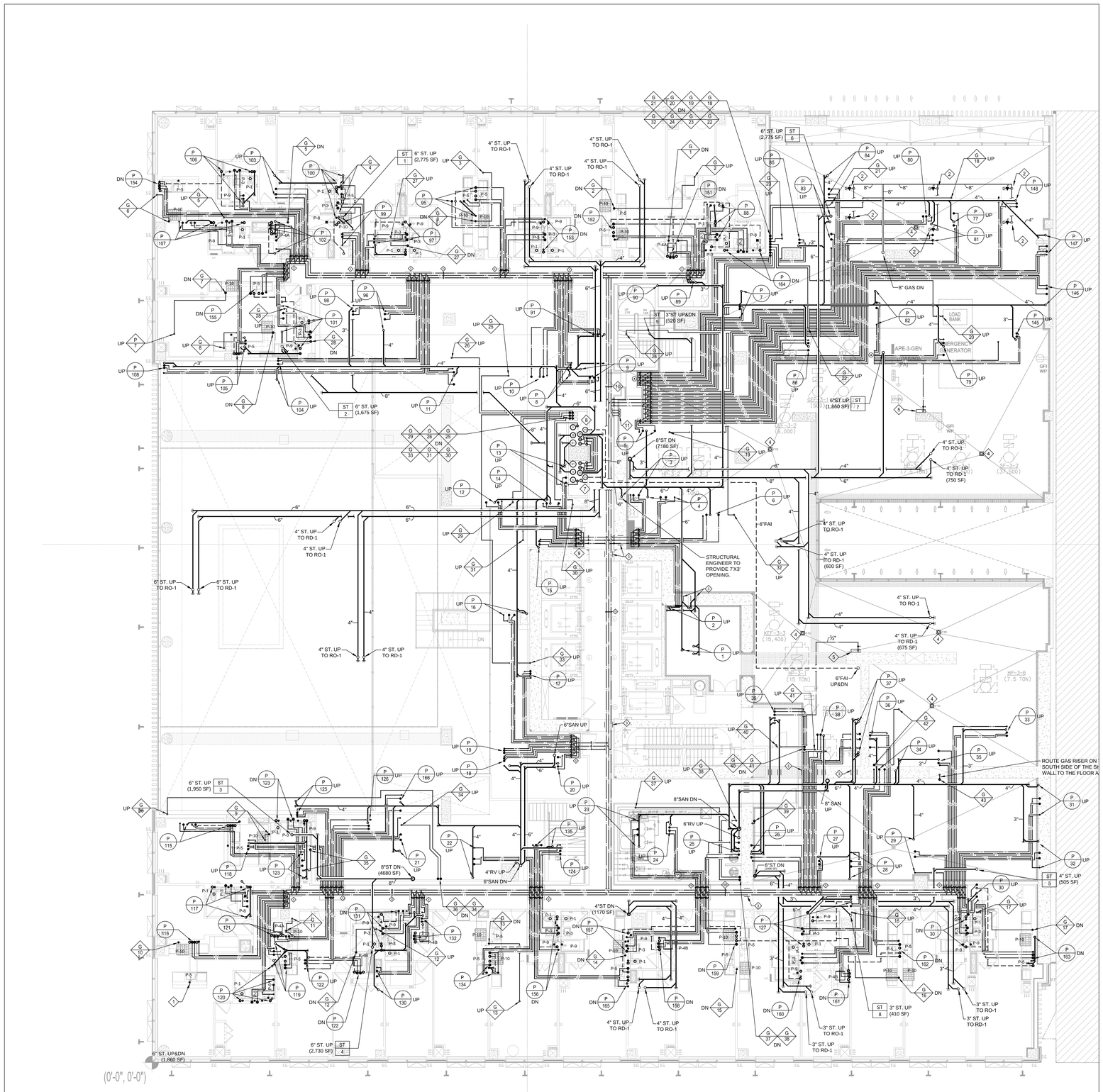
DEPT OF BLDGS 420555954 Job Number
E3910320809S Scan Code

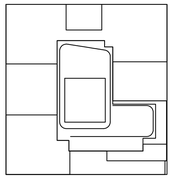


KEY NOTES:

1. PROVIDE CW & HW TO ISLAND SINK FROM THE FLOOR BELOW. PROVIDE BOW VENT FOR THE ISLAND SINK, SEE DETAILS FOR INFORMATION.
2. 4" GAS DROP AND CONNECT TO THE BOILER FUEL INLET PORT. PROVIDE APPLIANCE REGULATOR AND SHUT-OFF VALVE AS REQUIRED BY NYCFGC 2014. COORDINATE CONNECTION WITH MECHANICAL CONTRACTOR.
3. PIPE SLEEVES
4. 4" FD-1
5. ELECTRONIC TRAP PRIMER SIOUX CHIEF-E SERIES. TRAP PRIMER TO BE SUPPLIED WITH 3/4" CW. CONTRACTOR SHALL EXTEND TYPE L COPPER TUBING TO ALL FLOOR DRAINS IN THE VICINITY. TUBING SHALL BE MILL WRAPPED, WHEN INSTALLED BELOW GRADE OR IN SLAB.
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP
   - TF 6" TANK FILL UP
   - DW 6" DOMESTIC WATER UP
   - ST 15" STORM UP
   - S 12" SANITARY UP
   - SS 12" SANITARY UP (LOW ZONE 7TH-TO-36TH FLOORS)
   - VS 12" VENT UP (LOW ZONE)
   - G 4" GAS UP
   - C 4" COLD WATER UP (ZONE #2)
   - H 3" HOT WATER UP (ZONE #2)
   - R 1½" HOT WATER RETURN UP (ZONE #2)
   - FAI 6" FRESH AIR INTAKE UP
8. EXPRESS SHAFT
   - V 12" VENT DOWN
   - TF 6" TANK FILL DOWN
   - DW 6" DOMESTIC WATER DOWN
   - ST 15" STORM DOWN
   - S 12" SANITARY DOWN & 6" RELIEF VENT UP
   - SS 12" SANITARY DOWN (LOW ZONE 7TH-TO-36TH FLOORS)
   - VS 12" VENT DOWN (LOW ZONE)
   - G 4" GAS DOWN
   - C 4" COLD WATER DOWN (ZONE #2)
   - H 3" HOT WATER DOWN (ZONE #2)
   - R 1½" HOT WATER RETURN DOWN (ZONE #2)
9. ARCHITECT SHALL PROVIDE ACCESS PANEL IN THE CEILING FOR VALVES.
10. ZONE #1 CW, HW & HWR DISTRIBUTION AT 4TH FLOOR CEILING. UP-FEED FOR FLOORS 5-TO-9. DOWN-FEED FOR FLOORS CELLAR-TO-4.
11. ZONE #1 CW, HW & HWR DN

GENERAL NOTES:

1. ALL PLUMBING PIPING SHALL BE SEPARATED FROM THE GENERATOR EQUIPMENT ENCLOSURE. ARCHITECT TO PROVIDE RATED CEILINGS & WALLS AS REQUIRED.
2. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
3. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
4. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
5. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
6. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
7. ALL VALVES SHALL BE MADE ACCESSIBLE.
8. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.
9. PIPE OFF-SETS SHALL BE INSTALLED FREE OF CONFLICT WITH FINISHED CEILINGS. GRADUAL STEP DOWNS SHALL BE MADE ON 3RD, 4TH & 5TH FLOORS AS PART OF CONSTRUCTION COORDINATION.
10. PROVIDE SLEEVES FOR ALL HORIZONTAL PIPES CROSSING THROUGH BEAMS & SHEAR WALLS.
11. PROVIDE SLEEVES FOR ALL VERTICAL RISERS IN MECHANICAL ROOM.
12. ALL SLEEVES FOR DOMESTIC WATER PIPES SHALL BE 2 PIPE SIZES LARGER TO ALLOW FOR PROPER INSULATION INSTALLATION.
13. ALL SLEEVES FOR WASTE, STORM & VENT PIPING SHALL BE 1 PIPE SIZE LARGER FOR PROPER INSTALLATION.
12. ALL PLUMBING FLOOR MOUNTED EQUIPMENT SHALL BE PROVIDE WITH 4" CONCRETE HOUSEKEEPING PADS. PADS SHALL EXTEND MINIMUM 3" FROM THE FOOTPRINT OF THE EQUIPMENT.



KEY PLAN

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10/06/2017	ISSUED FOR DOB
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06/02/2017	81% CD SET
03/24/2017	50% CD SUBMISSION SET
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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
4TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1605318
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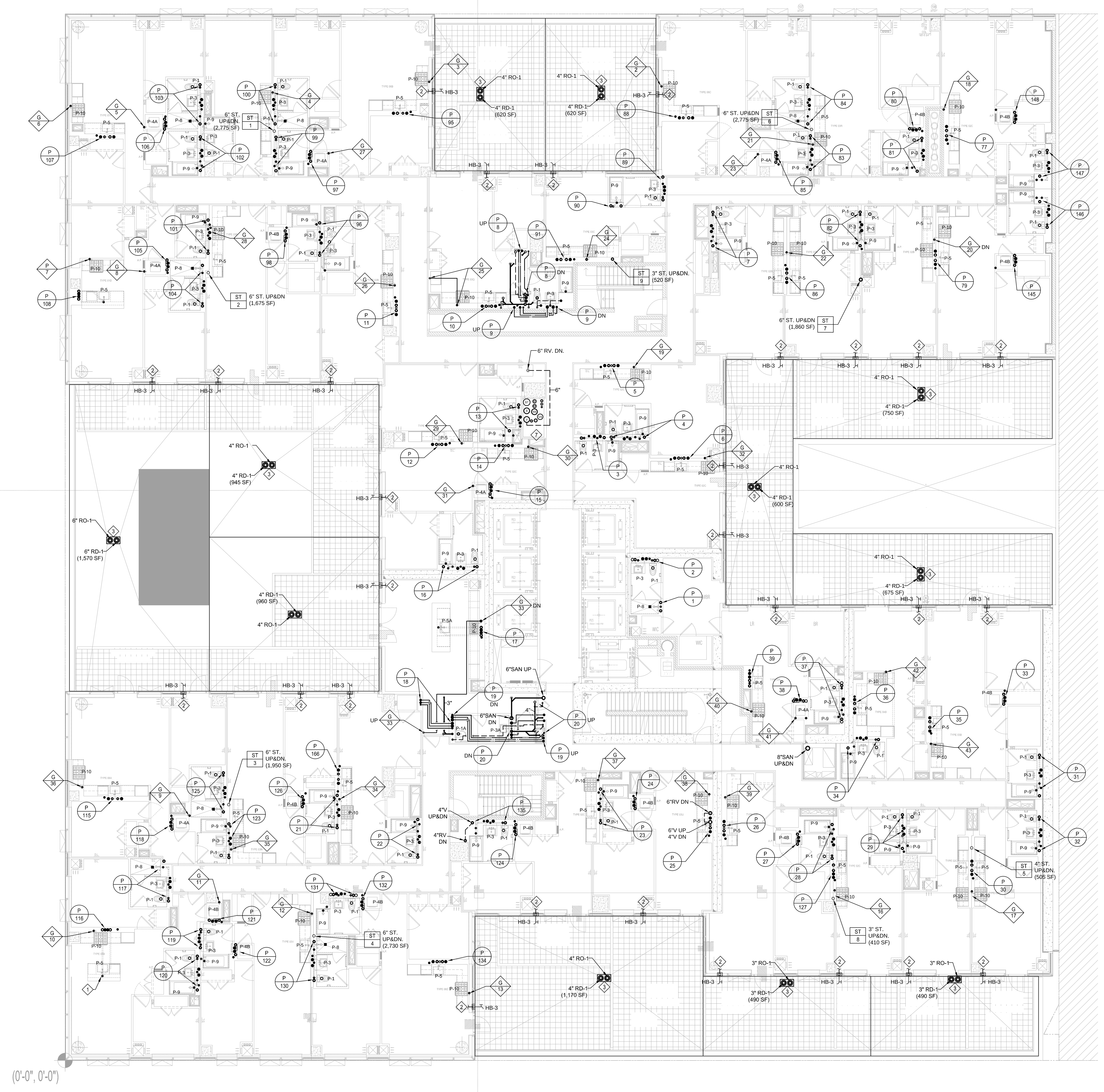
F:\Projects\1605318_City View Tower at Court Square\Revit\1605318_P-104.dwg SAVED ON 10/12/2017 11:42 AM PLOTTED ON 10/12/2017 11:51 AM

DEPT OF BLDGS 420655954 Job Number



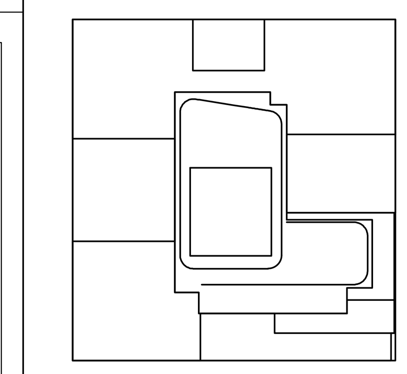
KEY NOTES:

1. PROVIDE CW & HW TO ISLAND SINK FROM THE FLOOR BELOW. PROVIDE BOW VENT FOR THE ISLAND SINK, SEE DETAILS FOR INFORMATION.
2. ¾"CW SUPPLY FROM CLOSEST DOMESTIC COLD WATER LINE. THE TAKE-OFF SHALL BE PROVIDED WITH AN ACCESSIBLE SHUT-OFF VALVE
3. AT THE FLOOR BELOW, ROUTE SEPARATE STORM AND OVERFLOW PIPES TO THE MAIN LEADER AT THE CORE. THE OVERFLOW AND PRIMARY STORM PIPES CAN COMBINE IN VERTICAL.
4. RESERVED
5. RESERVED
6. RESERVED
7. EXPRESS SHAFT

V	12" VENT UP & DOWN
TF	6" TANK FILL UP & DOWN
DW	6" DOMESTIC WATER UP & DOWN
ST	15" STORM UP & DOWN
S	12" SANITARY UP & DOWN
SS	12" SANITARY UP & DOWN (LOW ZONE 7TH-TO-36TH FLOORS)
VS	12" VENT UP & DOWN (LOW ZONE)
G	4" GAS UP & DOWN
C	4" COLD WATER UP & DOWN (ZONE #2)
H	3" HOT WATER UP & DOWN (ZONE #2)
R	1½" HOT WATER RETURN UP & DOWN (ZONE #2)
FAI	6" FRESH AIR INTAKE UP & DOWN

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:
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140 Broadway 25th Floor
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Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600

Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
5TH FLOOR PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
P-105.00
DWG NO.
OF

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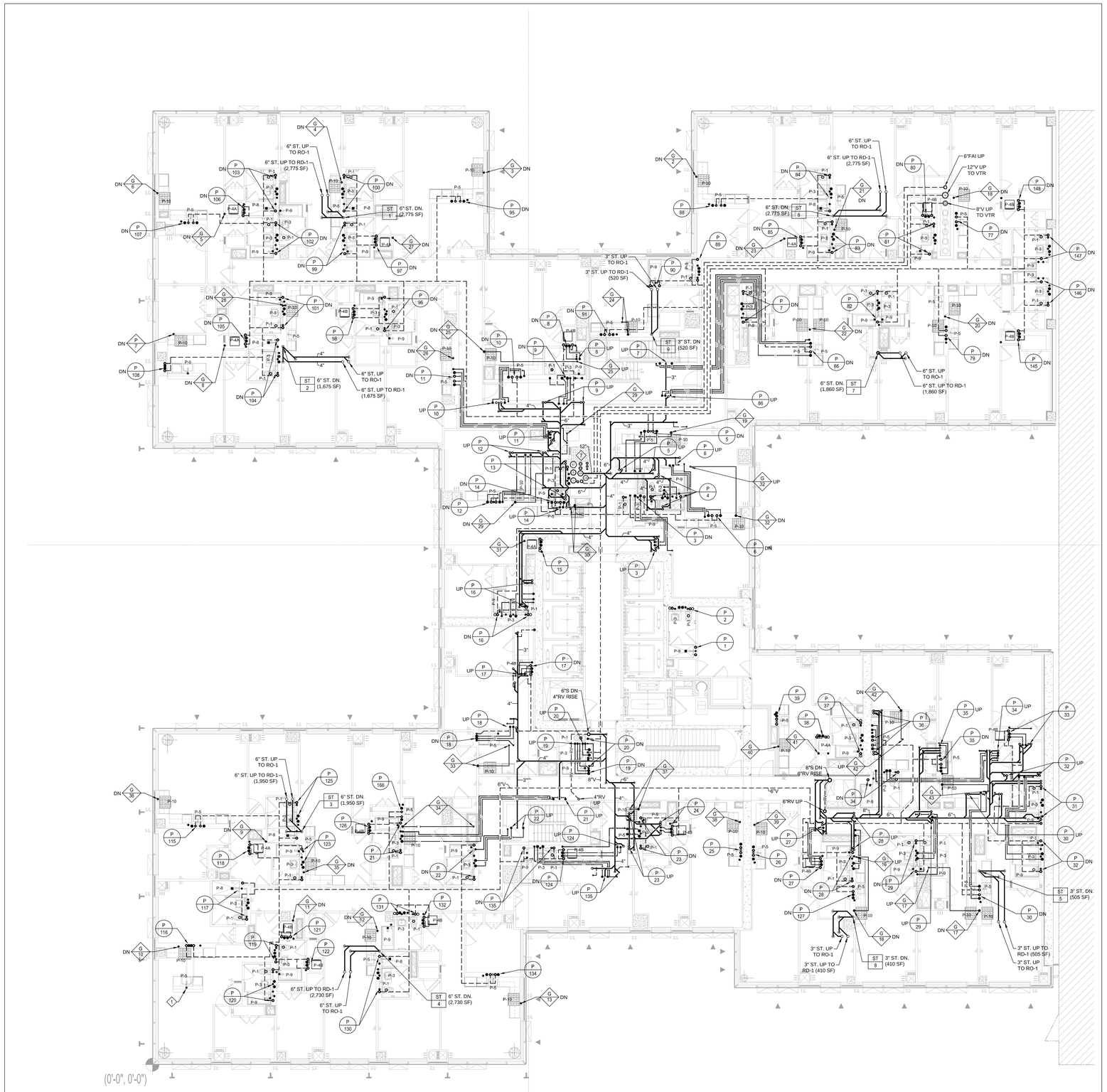
DEPT OF BLDGS 420005904 Job Number
E345495764 Scan Code

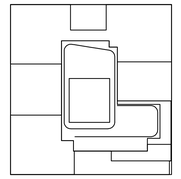


KEY NOTES:

1. PROVIDE CW & HW TO ISLAND SINK FROM THE FLOOR BELOW. PROVIDE BOW VENT FOR THE ISLAND SINK, SEE DETAILS FOR INFORMATION.
2. RESERVED
3. RESERVED
4. RESERVED
5. RESERVED
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & 15" STORM DOWN
   - S 12" SANITARY UP & DOWN
   - SS 12" SANITARY UP & DOWN (LOW ZONE 7TH-TO-36TH FLOORS)
   - VS 12" VENT DOWN (LOW ZONE)
   - G 4" GAS UP & DOWN
   - C 4" COLD WATER UP & DOWN (ZONE #2)
   - H 3" HOT WATER UP & DOWN (ZONE #2)
   - R 1½" HOT WATER RETURN UP & DOWN (ZONE #2)
   - FAI 6" FAI DOWN

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

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09/15/2017	90% CD SET
06/02/2017	85% CD SET
03/24/2017	50% CD SUBMISSION SET
01/27/2017	SUPERSTRUCTURE SET
01/25/2017	ISSUED FOR DOB
11/17/2016	FACADE PRICING SET
11/11/2016	100% DO FOUNDATION BID SET
10/12/2016	ISSUED FOR DOB
02/05/2016	DOB FILING SET

Number: Date: Revision:

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:
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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
6TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 15106316
SCALE: 1/8" = 1'-0"
DWG NO. P-106.00
0F

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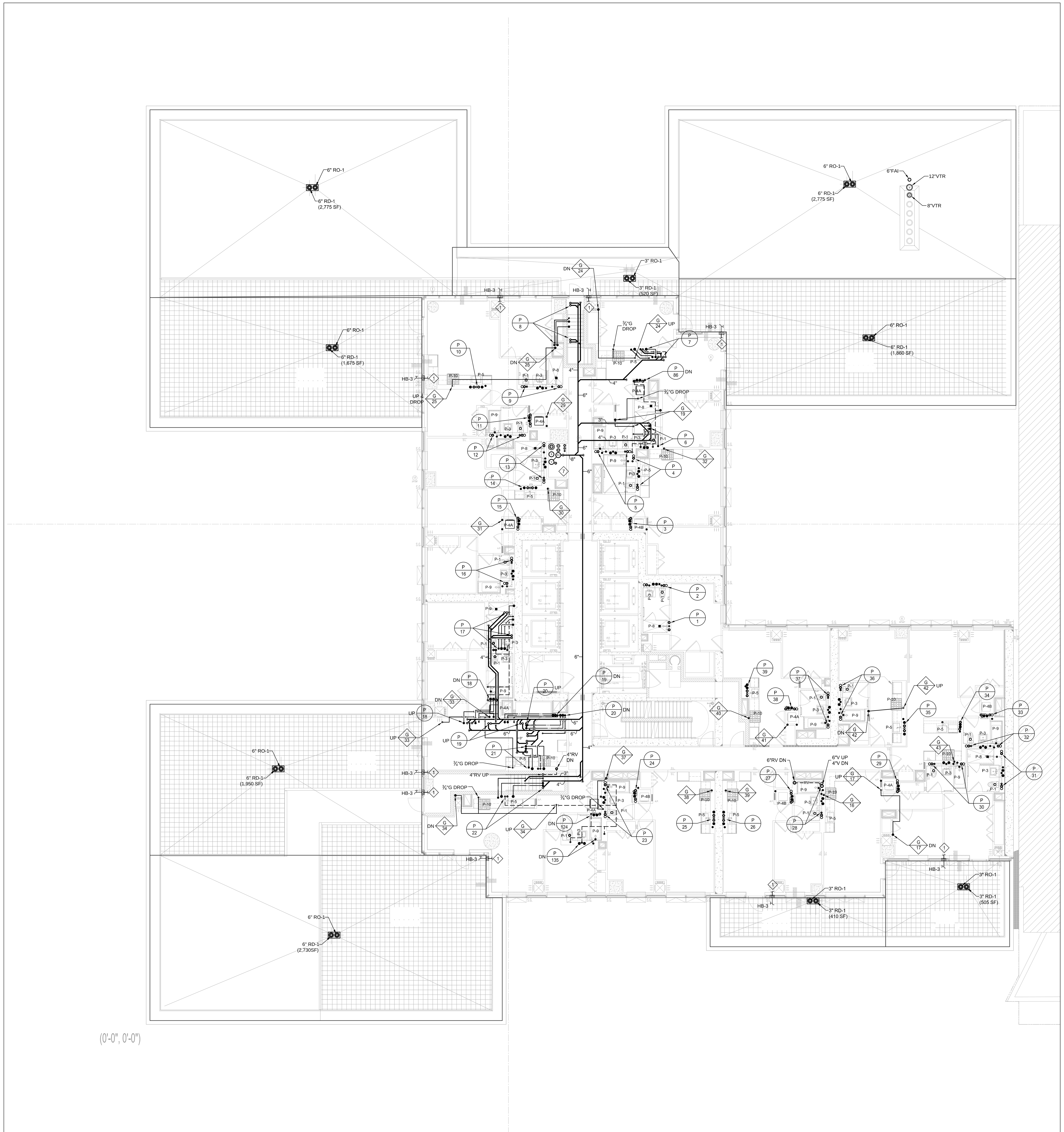
DEPT OF BLDGS 420655954 Job Number
Scan Code



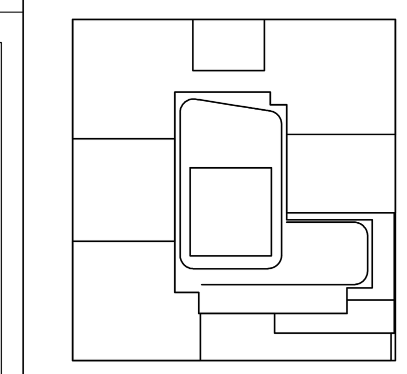
KEY NOTES:

1. ¾"CW SUPPLY FROM CLOSEST DOMESTIC COLD WATER LINE. THE TAKE-OFF SHALL BE PROVIDED WITH AN ACCESSIBLE SHUT-OFF VALVE
2. RESERVED
3. RESERVED
4. RESERVED
5. RESERVED
6. RESERVED
7. EXPRESS SHAFT

V	12" VENT UP & DOWN
TF	6" TANK FILL UP & DOWN
DW	6" DOMESTIC WATER UP & DOWN
ST	8" STORM UP & DOWN
S	12" SANITARY UP & DOWN
RV	12" RELIEF VENT RISE AND 12" SAN DOWN
G	4" GAS UP & DOWN
C	4" COLD WATER UP & DOWN (ZONE #2)
H	3" HOT WATER UP & DOWN (ZONE #2)
R	1½" HOT WATER RETURN UP & DOWN (ZONE #2)

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



KEY PLAN

NOTES:

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	10/06/2017	ISSUED FOR DOB
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	01/27/2017	SUPERSTRUCTURE SET
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	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
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112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
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11 BROADWAY
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New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
7TH FLOOR PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
P-107.00
DWG NO.
OF

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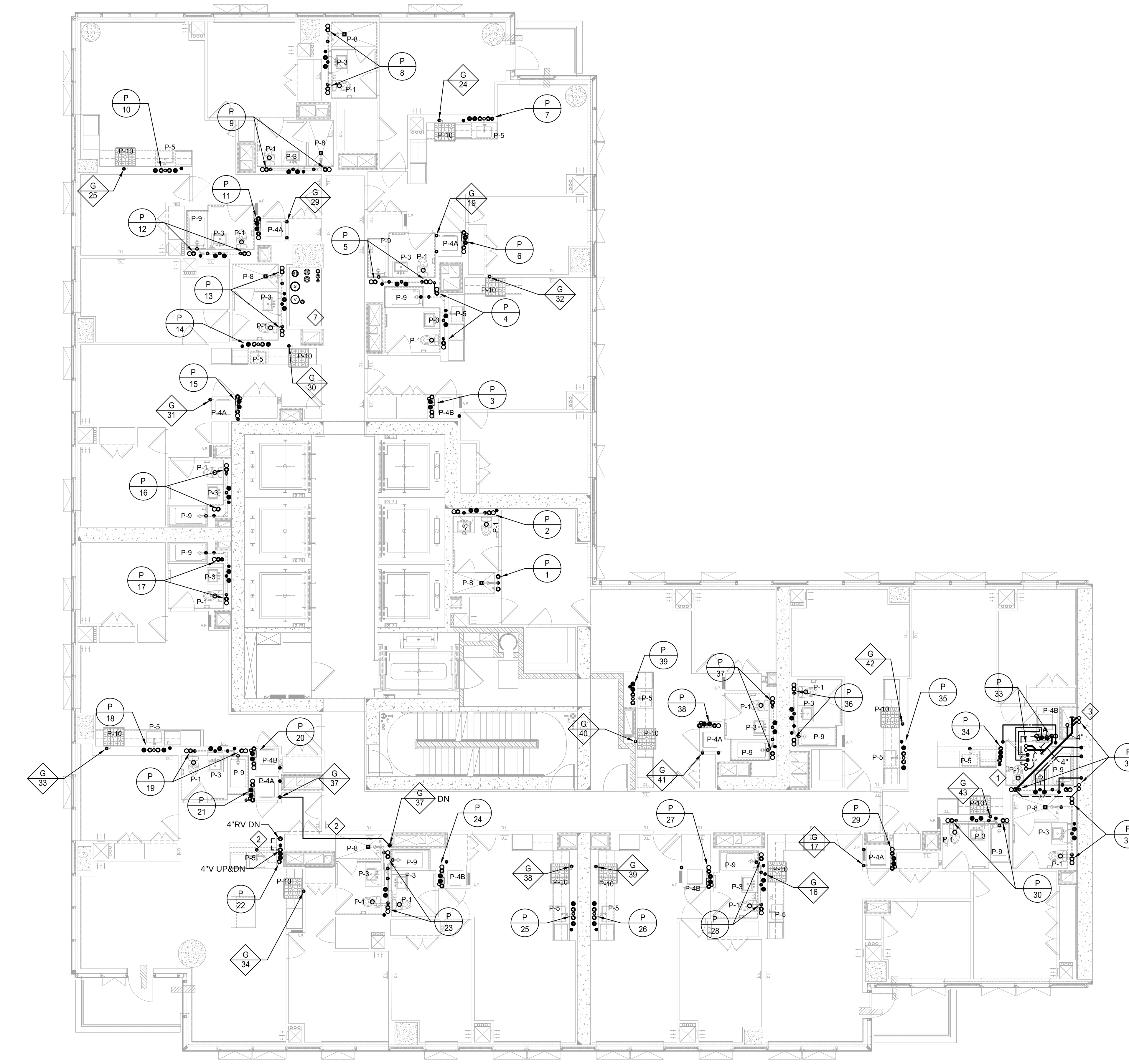
DEPT OF BLDGS 420655954 Job Number
Scan Code



(0'-0", 0'-0")

KEY NOTES:

1. RISER & STACK OFFSETS AT CEILING OF 19TH FLOOR.
2. GAS RISER OFFSET & RELIEF VENT AT CEILING OF 8TH FLOOR.
3. ARCHITECT TO REVIEW AND CONFIRM IF RISER CONFLICT WITH THE WALL IS ACCEPTABLE.
4. RESERVED
5. RESERVED
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 12" SANITARY UP & DOWN
   - G 4" GAS UP & DOWN
   - C 4" COLD WATER UP & DOWN (ZONE #2)
   - H 3" HOT WATER UP & DOWN (ZONE #2)
   - R 1½" HOT WATER RETURN UP & DOWN (ZONE #2)

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
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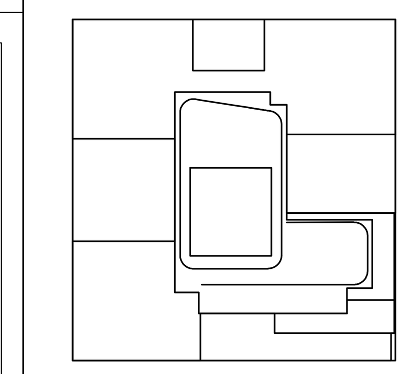
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



KEY PLAN

NOTES:

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	06/02/2017	85% CD SET
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	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
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NEW YORK, NY 10004
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Consultant:
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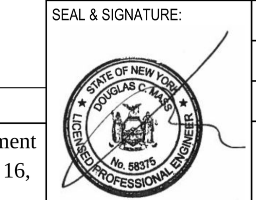
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
8TH TO 19TH FLOOR PLANS

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
P-108.00
DWG NO.
OF

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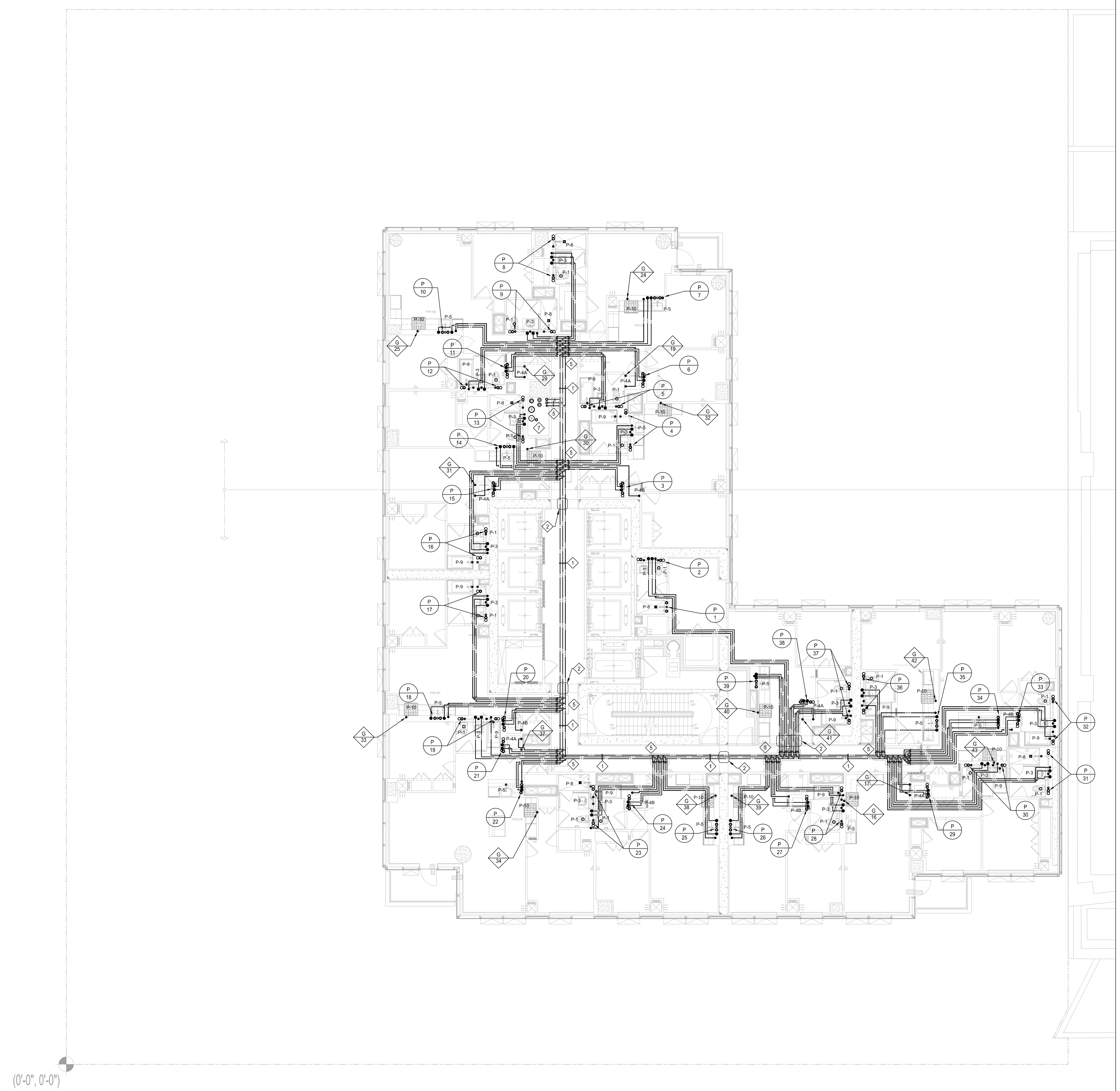
DEPT OF BLDGS420655954 Job Number



KEY NOTES:

1. ZONE #2 CW, HW & HWR DISTRIBUTION AT 22ND FLOOR CEILING. DOWN-FEED FOR FLOORS 10-TO-22.
2. PROVIDE SLEEVES IF PIPING IN CONFLICT WITH STRUCTURE.
3. RESERVED
4. RESERVED
5. ARCHITECT SHALL PROVIDE ACCESS PANEL IN THE CEILING FOR VALVES.
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 12" SANITARY UP & DOWN
   - G 4" GAS UP & DOWN
   - C 4" COLD WATER DOWN (ZONE #2) (OFF-SET AT 22ND FLOOR)
   - H 3" HOT WATER DOWN (ZONE #2) (OFF-SET AT 22ND FLOOR)
   - R 1½" HOT WATER RETURN DOWN (ZONE #2) (OFF-SET AT 22ND FLOOR)

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
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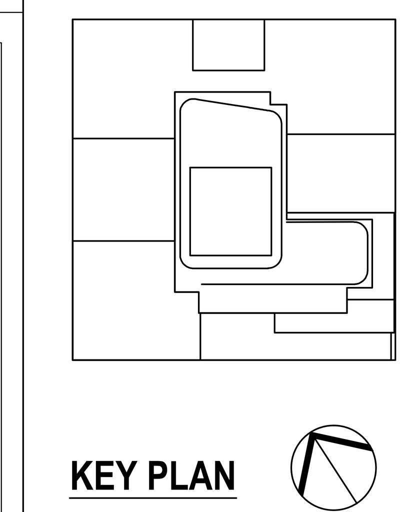

KEY PLAN

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	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
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Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
20TH TO 34TH FLOOR PLANS

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
P-120.00
DWG NO.
OF

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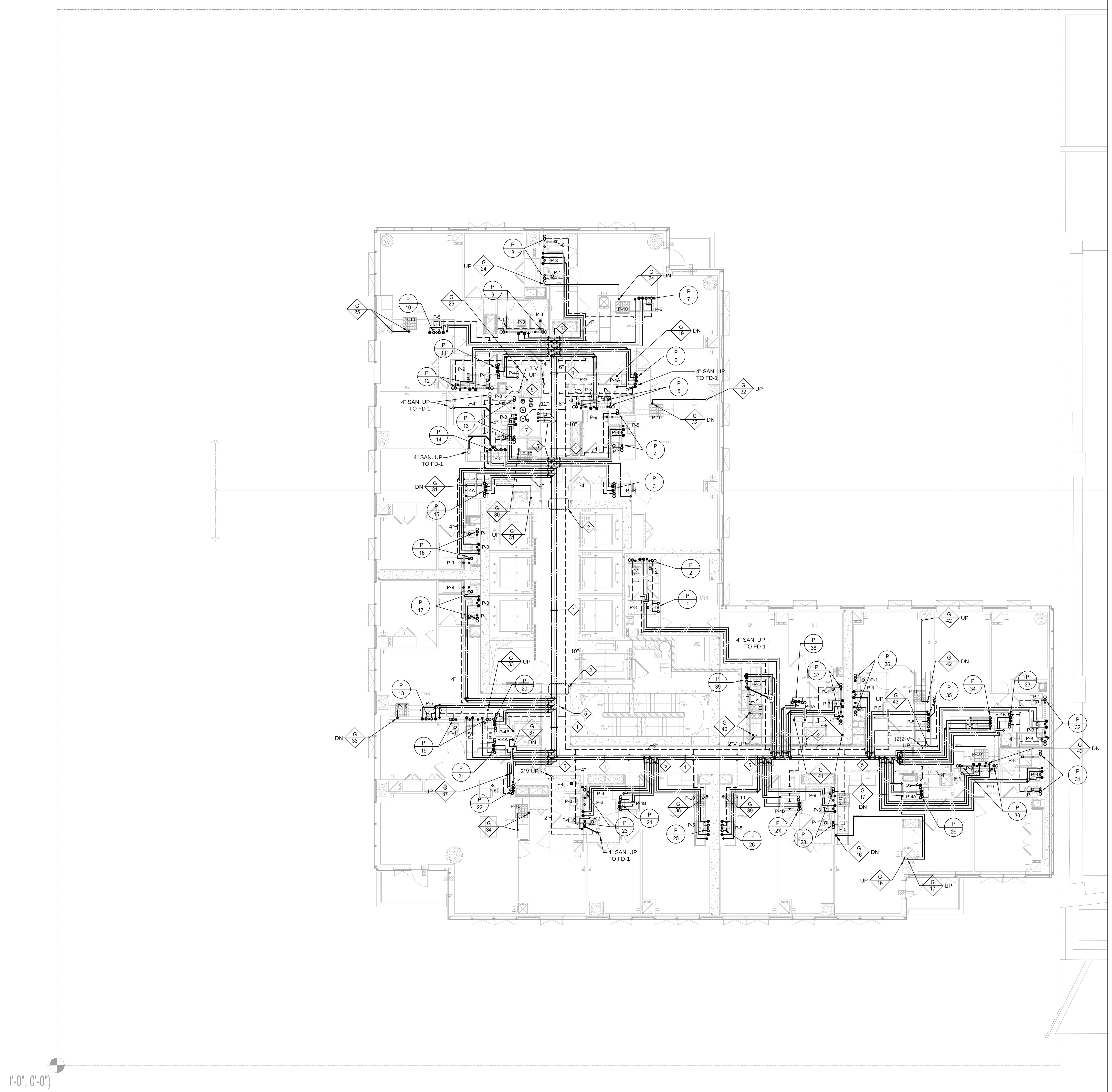
DEPT OF BLDGS 420655954 Job Number

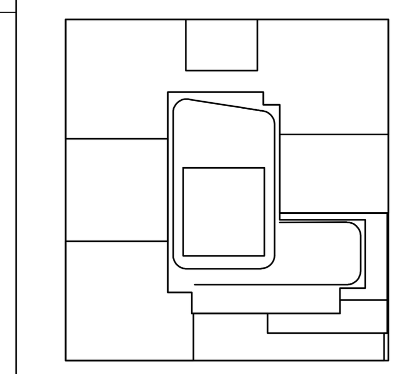


KEY NOTES:

1. ZONE #3 CW, HW & HWR DISTRIBUTION AT 35TH FLOOR CEILING. DOWN-FEED FOR FLOORS 23-TO-35.
2. PROVIDE SLEEVES IF PIPING IS IN CONFLICT WITH STRUCTURE.
3. RESERVED
4. RESERVED
5. ARCHITECT SHALL PROVIDE ACCESS PANEL IN THE CEILING FOR VALVES.
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 12" SANITARY UP & DOWN
   - G 4" GAS UP & DOWN
   - C 4" COLD WATER UP (ZONE #3)
   - H 3" HOT WATER UP (ZONE #3)
   - R 1½" HOT WATER RETURN UP (ZONE #3)

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

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	06/02/2017	85% CD SET
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	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
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Client:
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112-15 NORTHERN BLVD, CF-2
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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
35TH FLOOR PLAN

SEAL & SIGNATURE: STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
DWG NO. P-135.00
OF

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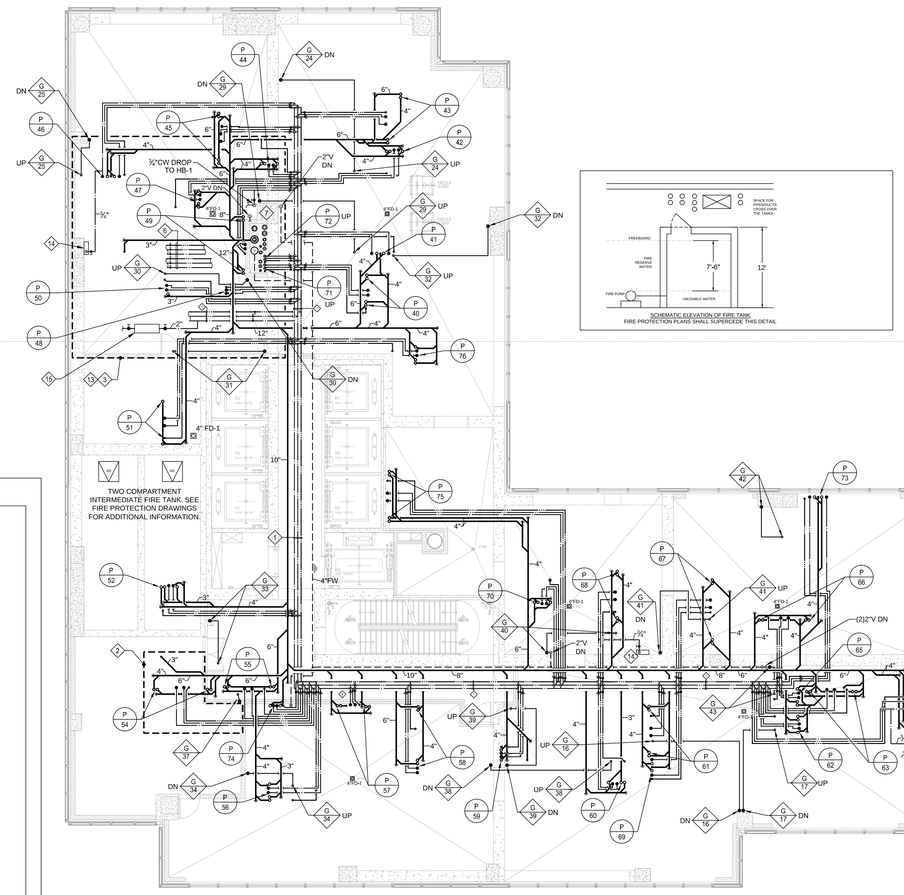
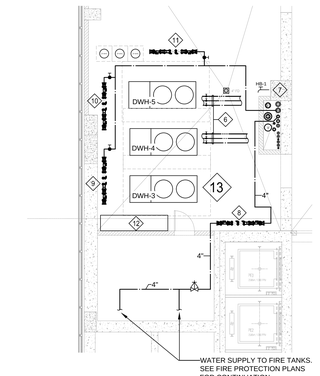
DEPT OF BUILDINGS 420005954 Job Number
ES-2170233.15 Scan Code



SCHEMATIC ELEVATION OF FIRE TANK
FIRE PROTECTION PLANS SHALL SUPERCEDE THIS DETAIL



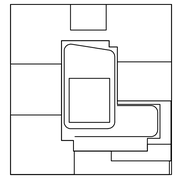
36TH FLOOR PLUMBING EQUIPMENT LAYOUT PART PLAN

KEY NOTES:

1. ZONE #4 CW, HW & HWR DISTRIBUTION AT 36TH FLOOR CEILING. UP-FEED FOR FLOORS 36-TO-45.
2. ALL PIPING WITHIN OUTLINED AREA SHALL BE PROVIDED WITH DRIP PANS AND LEAK DETECTORS. PIPING SHALL NOT BE PERMITTED TO OFF-SET OVER ELECTRICAL PANELS AND TRANSFORMERS.
   ALL LEAK DETECTORS SHALL BE CONNECTED TO BUILDINGS BMS SYSTEM.
3. SEE PART PLAN AT BOTTOM OF THE PAGE FOR EQUIPMENT LAYOUT IN OUTLINED AREA.
4. 4" FD-1
5. ARCHITECT SHALL PROVIDE ACCESS IN THE CEILING FOR VALVES.
6. ZONE #3 4"CW, 3"HW & 1½"HWR AND ZONE #5 4"CW, 3"HW & 1½"HWR OFFSET FROM WATER HEATERS AND TO SHAFT.
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - FW 4" INTERMEDIATE FIRE TANK WATER SUPPLY UP
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 6" SANITARY UP & 12" SANITARY DOWN
   - G 4" GAS UP & DOWN
   - C 4" COLD WATER UP (ZONE #5)
   - H 3" HOT WATER UP (ZONE #5)
   - R 1½" HOT WATER RETURN UP (ZONE #5)
   - C 4" COLD WATER DN (ZONE #3)
   - H 3" HOT WATER DN (ZONE #3)
   - R 1½" HOT WATER RETURN DN (ZONE #3)
   - P-71 DISTRIBUTION CW, HW & HWR UP (ZONE #4)
   - P-72 DISTRIBUTION CW, HW & HWR UP (ZONE #4)
8. FIRE TANK SINGLE STAGE PRV STATION. INLET PRESSURE 155 PSI, OUTLET PRESSURE 65 PSI. PRV SHALL HAVE A MAXIMUM CAPACITY OF 150 GPM.
9. ZONE #3 MASTER PRV STATION. INLET PRESSURE 155 PSI, OUTLET PRESSURE 30 PSI. PRV SHALL HAVE A MAXIMUM CAPACITY OF 250 GPM.
10. ZONE #4 MASTER PRV STATION. INLET PRESSURE 155 PSI, OUTLET PRESSURE 85 PSI. PRV SHALL HAVE A MAXIMUM CAPACITY OF 250 GPM.
11. ZONE #5 MASTER PRV STATION. INLET PRESSURE 155 PSI, OUTLET PRESSURE 133 PSI. PRV SHALL HAVE A MAXIMUM CAPACITY OF 250 GPM.
12. SPACE RESERVED FOR CIRCULATION PUMPS AND MIXING VALVES.
13. FOR WATER HEATER PIPING AND ACCESSORY ARRANGEMENT, SEE DETAIL SHEETS.
14. ELECTRONIC TRAP PRIMER SIOUX CHIEF-E SERIES, TRAP PRIMER TO BE SUPPLIED WITH 3/4" CW, CONTRACTOR SHALL EXTEND TYPE L COPPER TUBING TO ALL FLOOR DRAINS IN THE VICINITY. TUBING SHALL BE MILL WRAPPED, WHEN INSTALLED BELOW GRADE OR IN SLAB.
15. 2" METER & RPZ SUPPLIED FROM ZONE #4.
    THIS STATION IS DEDICATED FOR WATER SUPPLY TO HVAC EQUIPMENT.

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE PROVIDED WITH FLANGE AND CLAMPING COLLAR FOR FLASHING WITH WATER PROOFING. CONTRACTOR SHALL COORDINATE DRAIN TYPE WITH THE TYPE OF FLOOR FINISH/WATERPROOFING.
3. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
4. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
5. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
6. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
7. ALL VALVES SHALL BE MADE ACCESSIBLE.
8. PROVIDE SLEEVES FOR ALL HORIZONTAL PIPES CROSSING THROUGH BEAMS & SHEAR WALLS. SEE STRUCTURAL PLANS FOR WALL AREAS PERMITTED FOR PENETRATIONS.
9. PROVIDE SLEEVES FOR ALL VERTICAL RISERS.
10. ALL SLEEVES FOR DOMESTIC WATER PIPES SHALL BE 2 PIPE SIZES LARGER TO ALLOW FOR PROPER INSULATION INSTALLATION.
11. ALL SLEEVES FOR WASTE, STORM & VENT PIPING SHALL BE 1 PIPE SIZE LARGER FOR PROPER INSTALLATION.
12. ALL PLUMBING FLOOR MOUNTED EQUIPMENT SHALL BE PROVIDE WITH 4" CONCRETE HOUSEKEEPING PADS. PADS SHALL EXTEND MINIMUM 3" FROM THE FOOTPRINT OF THE EQUIPMENT.



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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
36TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1028618
SCALE: 1/8" = 1'-0"
DWG NO. P-136.00

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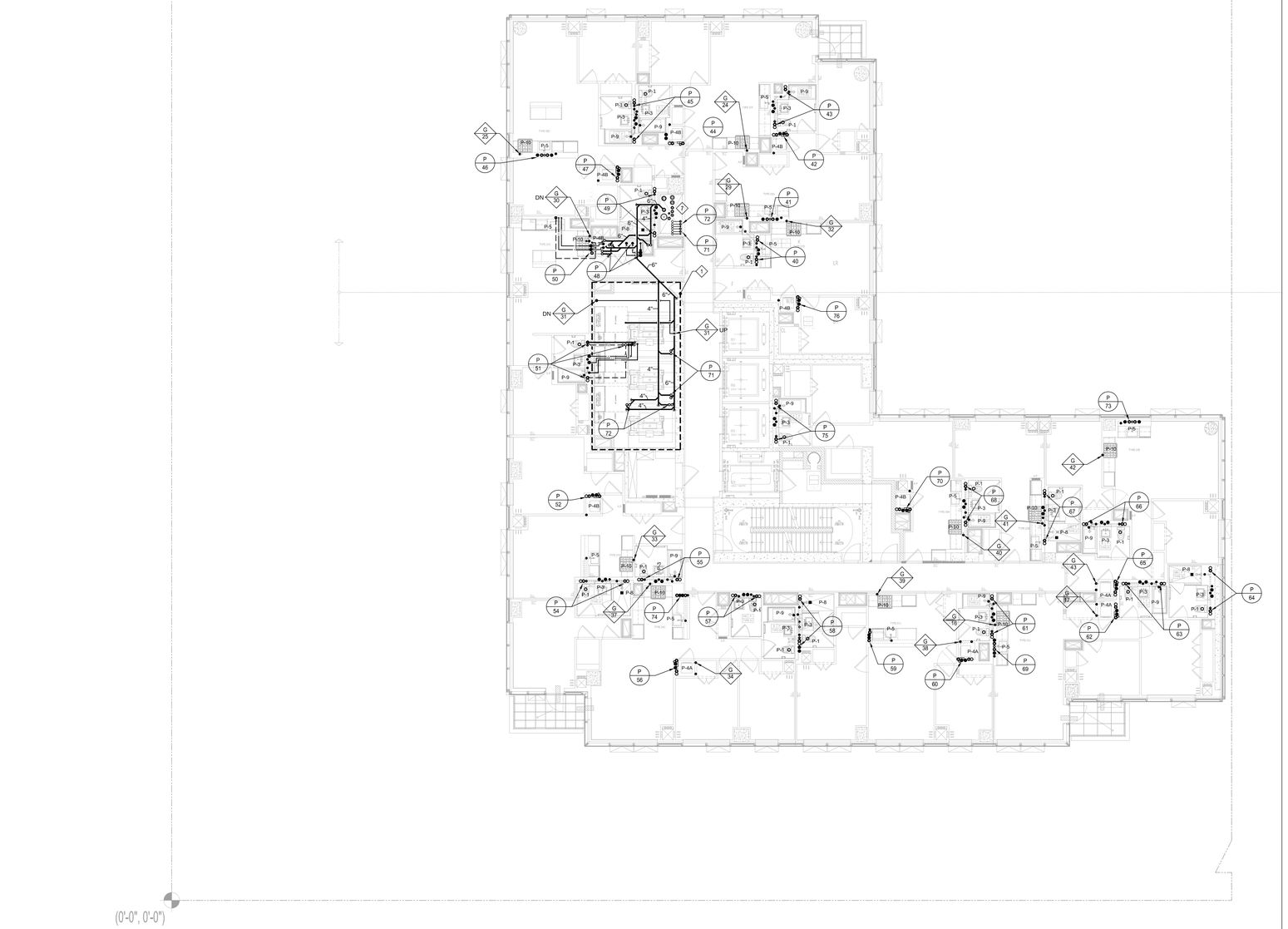
ZILBERMAN, ALEX
10/12/2017 11:54 AM PLOTTED DN 10/9/2017 4:48 PM PLOTTED DN SAVED

DEPT OF BUILDINGS 420655954 Job Number
B1445647110 Scan Code

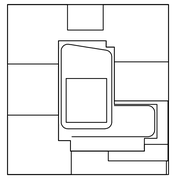


KEY NOTES:

1. ALL PIPES WITHIN OUTLINED AREA SHALL BE INSTALLED IN THE INTERSTITIAL SPACE ABOVE THE ELEVATOR MACHINE ROOM. DRIP PANS TO BE PROVIDED BELOW ALL PIPES. PROVIDE LEAK DETECTOR AT LOW POINT OF EACH DRIP PAN. PROVIDE CABLE TYPE LEAK DETECTOR AT THE BASE OF OF INTERSTITIAL SPACE. THE CABLE SHALL BE LAID IN SERPENTINE PATTERN ON THE PERIMETER OF ALL PIPING. ALL LEAK DETECTORS SHALL BE TIED TO BMS SYSTEM. ALL RISER OFF-SETS SHALL BE RECESSED UP TO ALLOW FOR AN OFF-SET TIGHT TO THE STRUCTURAL SLAB. CONTRACTOR SHALL PROVIDE ENLARGED SLAB OPENINGS TO ALLOW PIPE FITTINGS TO BE RECESSED INTO 38TH FLOOR SLAB.
2. RESERVED
3. RESERVED
4. RESERVED
5. RESERVED
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - FW 4" INTERMEDIATE FIRE TANK WATER SUPPLY (62ND AND 36TH FLOORS) UP&DN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 6" SANITARY UP & DOWN
   - C 4" COLD WATER UP & DOWN (ZONE #5)
   - H 4" HOT WATER UP & DOWN (ZONE #5)
   - R 1½" HOT WATER RETURN UP & DOWN (ZONE #5)
   - G 4" GAS UP & DOWN
   - P-71 DISTRIBUTION CW, HW & HWR UP & DOWN
   - P-72 DISTRIBUTION CW, HW & HWR UP & DOWN

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CWS/HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
37TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1416B316
SCALE: 1/8" = 1'-0"
DWG NO. P-137.00
0F

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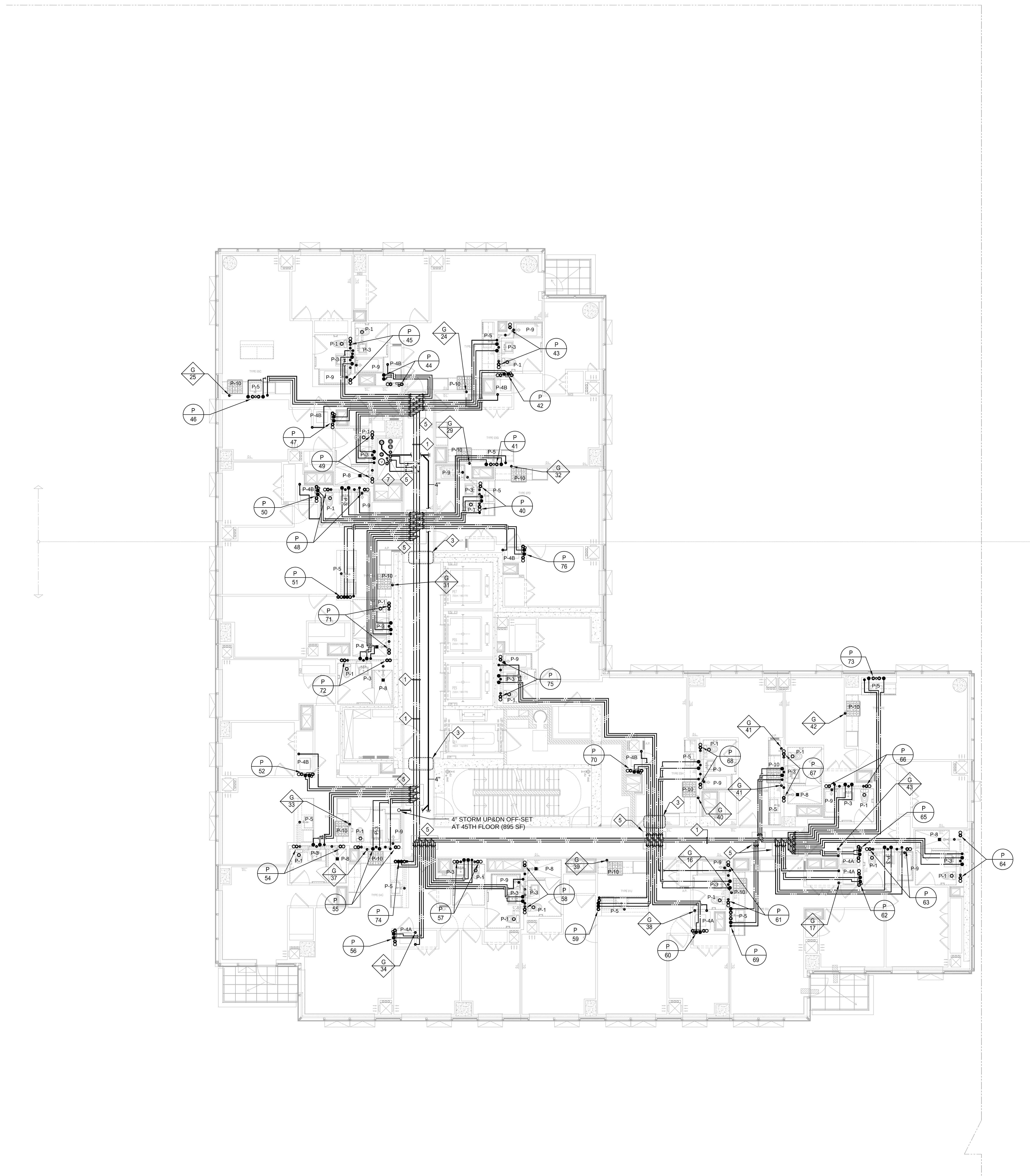
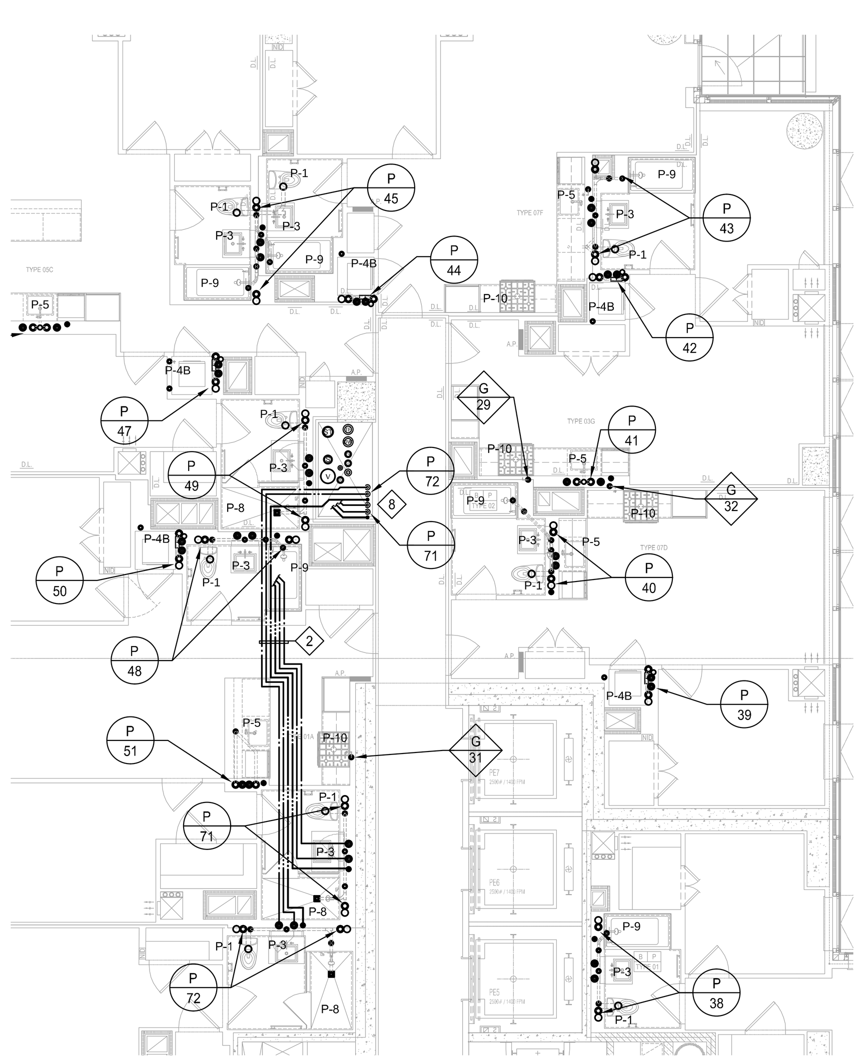
DEPT OF BLDGS 420655954 Job Number





PLUMBING - 38TH FLOOR
PARTIAL PLAN

KEY NOTES:

1. ZONE #5 CW, HW & HWR DISTRIBUTION AT 45TH FLOOR CEILING. UP-FEED FOR FLOORS 46-TO-57.
2. ZONE #4 CW, HW & HWR DISTRIBUTION OFFSET AT 38TH FLOOR CEILING. UP-FEED FOR FLOORS 38-TO-45.
3. PROVIDE SLEEVES IF PIPING IS IN CONFLICT WITH STRUCTURE.
4. RESERVED
5. ARCHITECT SHALL PROVIDE ACCESS PANEL IN THE CEILING FOR VALVES.
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - FW 4" INTERMEDIATE FIRE TANK WATER SUPPLY (62ND AND 36TH FLOORS) UP&DN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 6" SANITARY UP & DOWN
   - G 4" GAS UP & DOWN
   - C 4" COLD WATER DOWN (ZONE #5) (OFF-SET AT 45TH FLOOR)
   - H 3" HOT WATER DOWN (ZONE #5) (OFF-SET AT 45TH FLOOR)
   - R 1 1/2" HOT WATER RETURN DOWN (ZONE #5) (OFF-SET AT 45TH FLOOR)
8. 38TH FLOOR EXPRESS SHAFT, ADDITIONAL RISERS
   - P-71 OFF-SET CW, HW & HWR DOWN
   - P-72 OFF-SET CW, HW & HWR DOWN

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
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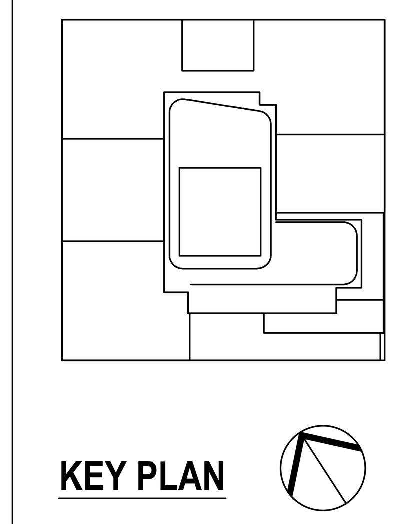
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
38TH TO 50TH FLOOR PLANS

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
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P-138.00
DWG NO.
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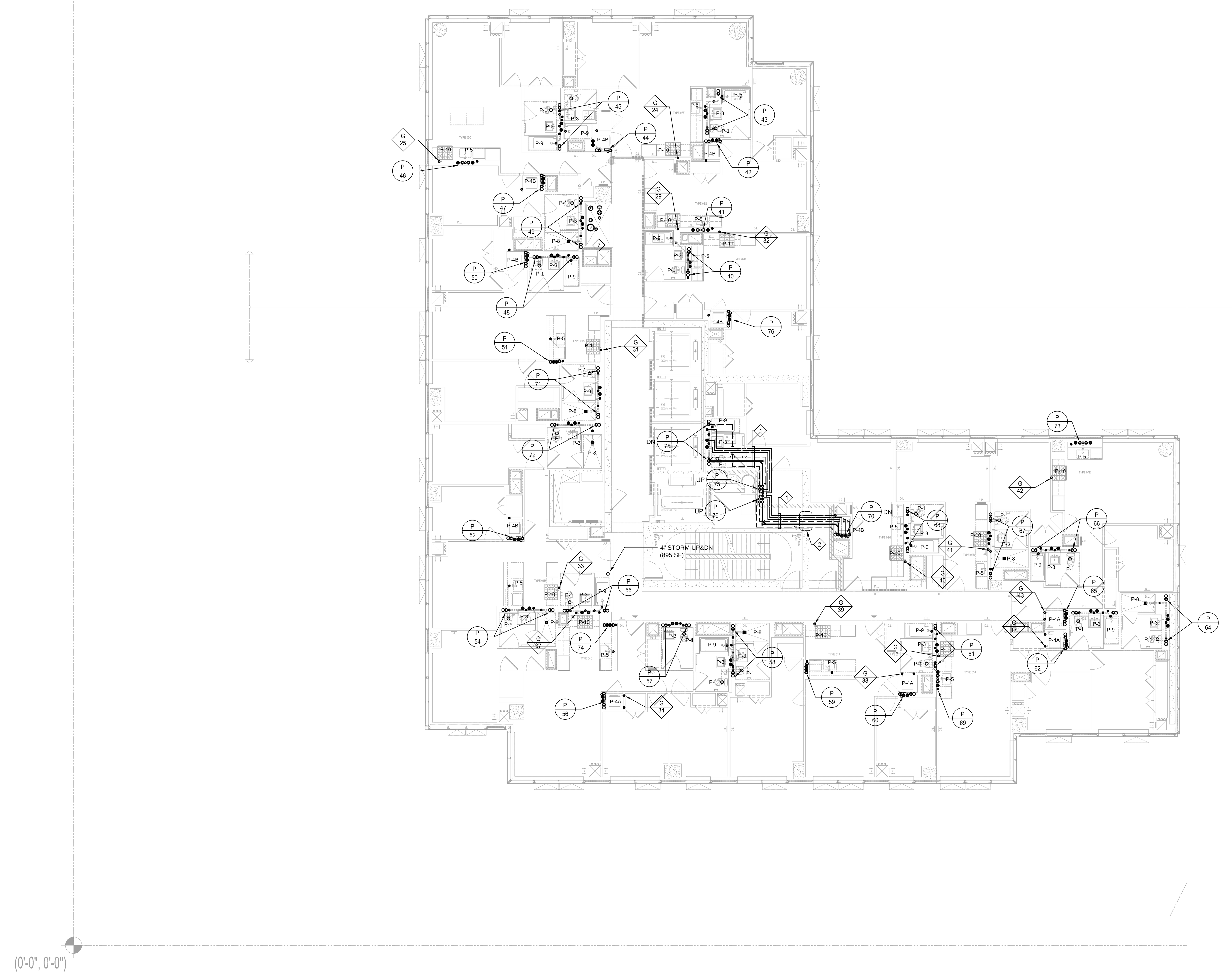

KEY NOTES:

1. OFFSET PIPING AT CEILING OF 61ST FLOOR ONLY.
2. PROVIDE SLEEVES FOR ALL PIPES PASSING THROUGH LINK BEAM.
3. RESERVED
4. RESERVED
5. RESERVED
6. RESERVED
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - FW 4" INTERMEDIATE FIRE TANK WATER SUPPLY (62ND AND 36TH FLOORS) UP&DN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 6" SANITARY UP & DOWN
   - G 4" GAS UP&DN

GENERAL NOTES:

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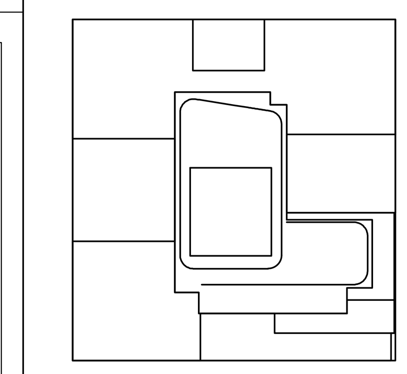

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Architect:
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11 BROADWAY
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Consultant:
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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
51ST TO 61ST FLOOR PLANS

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
P-151.00
DWG NO.
OF

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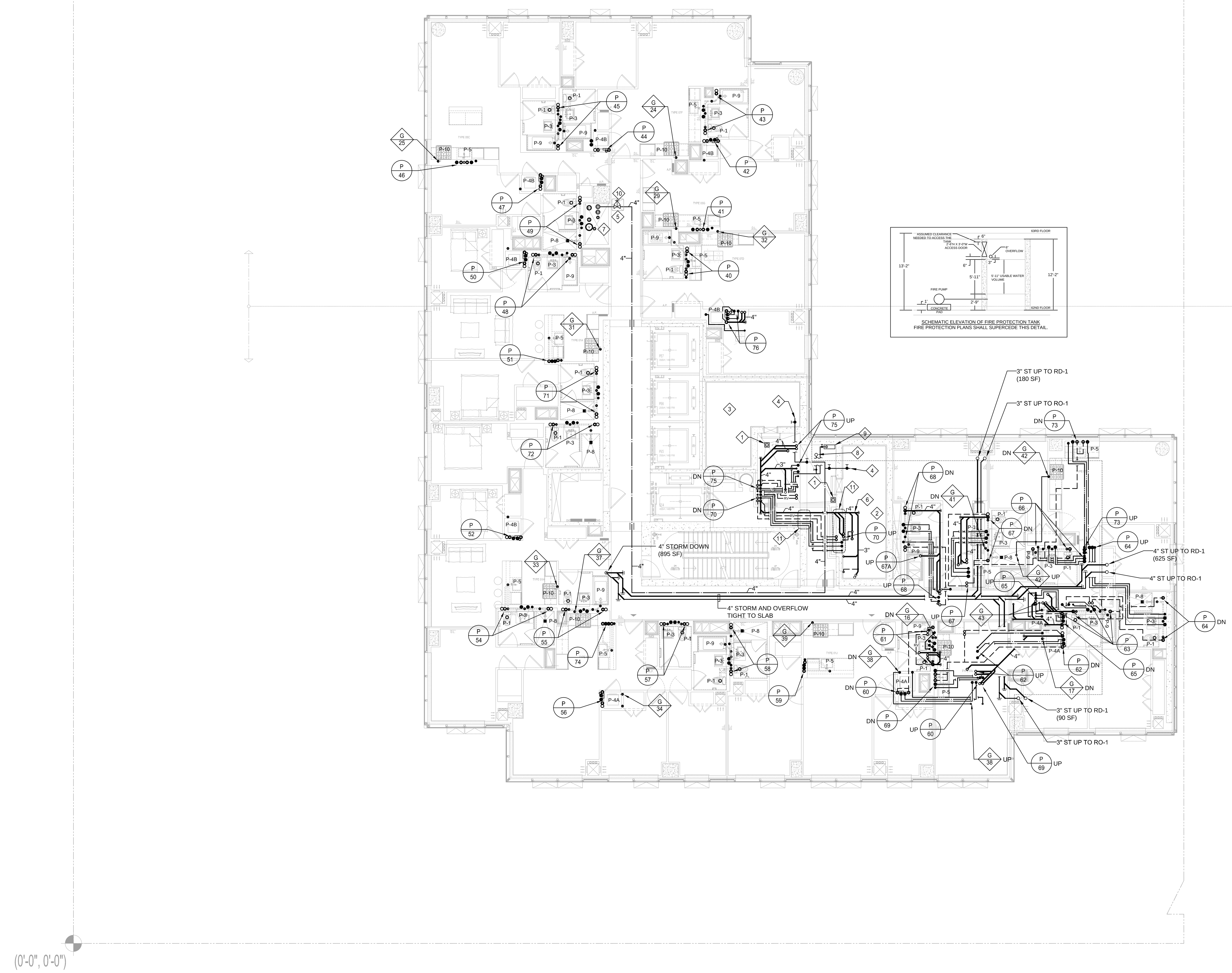
DEPT OF BLDGS 420655954 Job Number

Scan Code

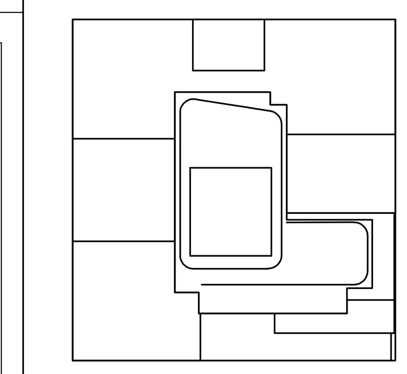


KEY NOTES:

1. 4" FD-1
2. FIRE PROTECTION STORAGE TANK COMPARTMENT #1
7,500 GALLONS, 176 SQ. FT. AREA WITH 5'-11" USABLE WATER HEIGHT
3. FIRE PROTECTION STORAGE TANK COMPARTMENT #2
7,500 GALLONS, 176 SQ. FT. AREA WITH 5'-11" USABLE WATER HEIGHT
4. TANK FILL CONTROL VALVES. SEE FIRE PROTECTION PLANS AND SPECIFICATIONS FOR REQUIREMENTS.
5. ARCHITECT SHALL PROVIDE ACCESS PANEL IN THE CEILING FOR VALVES.
6. PIPING PASSING OVER FIRE PROTECTION STORAGE TANK SHALL BE MILL WRAPPED.
7. EXPRESS SHAFT
   - V 12" VENT UP & DOWN
   - FW 4" INTERMEDIATE FIRE TANK WATER SUPPLY (62ND AND 36TH FLOORS) UP&DN
   - DW 6" DOMESTIC WATER UP&DOWN
   - TF 6" TANK FILL UP & DOWN
   - ST 8" STORM UP & DOWN
   - S 6" SANITARY UP & DOWN
   - G 4" GAS UP & DOWN
8. ¾" CW UP TO HB-2.
PROVIDE DRAIN TUBING FROM THE DRAIN PORT OF POST HYDRANT AND ROUTE OVER CLOSES FLOOR DRAIN TO SPILL VIA 2" AIR GAP.
DRAIN TUBING SHALL BE PROPERLY SUPPORTED FROM BUILDING STRUCTURE.
9. ELECTRONIC TRAP PRIMER SIOUX CHIEF-E SERIES. TRAP PRIMER TO BE SUPPLIED WITH 3/4" CW. CONTRACTOR SHALL EXTEND TYPE L COPPER TUBING TO ALL FLOOR DRAINS IN THE VICINITY. TUBING SHALL BE MILL WRAPPED, WHEN INSTALLED BELOW GRADE OR IN SLAB.
10. SHUT-OFF VALVE WITH TAMPER SWITCH, TO BE CONNECTED TO FIRE ALARM SYSTEM.
11. PROVIDE SLEEVES FOR PIPING PASSING THROUGH LINK BEAMS AND SHEAR WALLS.

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
3. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
4. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
5. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
6. ALL VALVES SHALL BE MADE ACCESSIBLE.
7. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



KEY PLAN

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	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
62ND FLOOR PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8"= 1'-0"
P-162.00
DWG NO.
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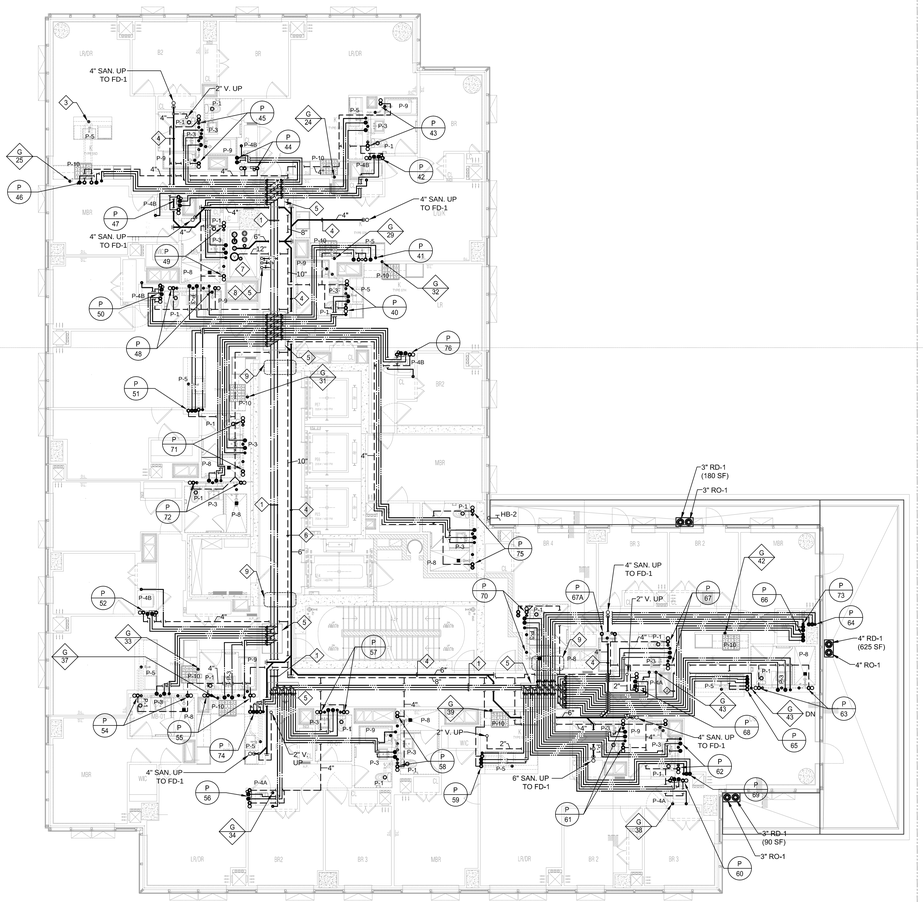
DEPT OF BUILDINGS 320005954 Job Number
B1041702.tif Scan Code

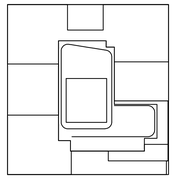


KEY NOTES:

1. ZONE #6 CW, HW & HWR DISTRIBUTION AT 66TH FLOOR CEILING. DOWN-FEED FOR FLOORS 66-TO-58.
2. GAS RISER OFFSET AT CEILING OF 63RD FLOOR
3. PROVIDE CW & HW TO ISLAND SINK FROM THE FLOOR BELOW. PROVIDE BOW VENT FOR THE ISLAND SINK, SEE DETAILS FOR INFORMATION.
4. FLOOR DRAIN PIPING, TRAPS, AND VENTING LOCATED IN CEILING OF 66TH FLOOR.
5. ARCHITECT SHALL PROVIDE ACCESS PANEL IN THE CEILING FOR VALVES.
6. RISER VENT OFFSETS AT CEILING OF 66TH FLOOR.
7. EXPRESS SHAFT
   - V 15" VENT UP & 12" VENT DOWN
   - FW 4" INTERMEDIATE FIRE TANK WATER SUPPLY (62ND AND 36TH FLOORS) UP&DN
   - TF 6" TANK FILL UP & DOWN
   - DW 6" DOMESTIC WATER UP & DOWN
   - ST 8" STORM UP & DOWN (10,305 SF)
   - S 6" SANITARY UP & DOWN
   - G 4" GAS UP & DN
8. 4" CW, 3" HW & 1½" HWR UP
9. PROVIDE SLEEVES IF PIPING IN CONFLICT WITH STRUCTURE.

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL PIPE OFF-SETS SHALL OCCUR AT 66TH FLOOR CEILING.
2. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
3. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
4. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
5. GAS PIPING IS NOT PERMITTED IN STAIRS & FIRE PUMP ROOMS. IF GAS PIPING IS CROSSING IN EGRESS CORRIDOR OR WITHIN A RATED WALL, IT SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
6. EACH CW&HW BRANCH TAKE-OFF TO SERVE BATHROOM GROUP, KITCHEN OR WASHING MACHINE SHALL BE PROVIDED WITH DEDICATED SHUT-OFF VALVES.
7. ALL VALVES SHALL BE MADE ACCESSIBLE.
8. ALL SANITARY AND VENT RISER OFF-SETS SHALL BE PROVIDED WITH SUD-ZONE PIPING ARRANGEMENT AS DEFINED IN NYCPC 2014 SECTION 704.6.



KEY PLAN

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Number: Date: Revision:

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Long Island City, NY 11101

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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
63RD TO 66TH FLOOR PLANS

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 1d1B6318
SCALE: 1/8" = 1'-0"
P-163.00
DWG NO.
0F

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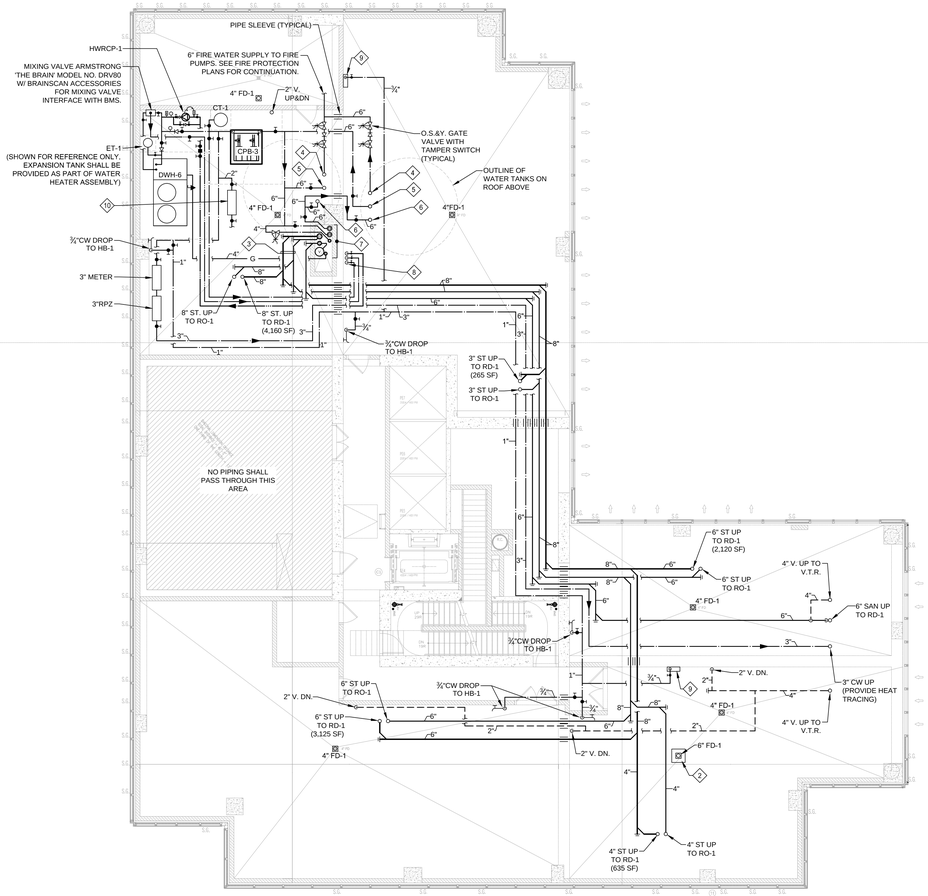
DEPT OF BUILDINGS 320035954 Job Number
E350461699 Scan Code

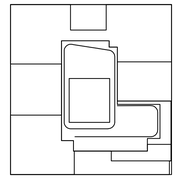


KEY NOTES:

1. PITCH 8" STORM DRAIN PIPING AT ½" DROP PER FOOT OF RUN (4% SLOPE) AFTER THE LAST ROOF DRAIN AND OVERFLOW DRAIN CONNECTIONS.
2. 6" FLOOR DRAIN WITH 2'X2'X1' H BASIN FOR COOLING TOWER FILTER DISCHARGE AND CHEMICAL PURGE. ALL WASTE FROM MECHANICAL EQUIPMENT SPILLED TO THIS DRAIN SHALL FIRST PASS THROUGH THE HOLDING TANK (SUPPLIED BY MECHANICAL CONTRACTOR). THE RELEASE FROM THE HOLDING TANK SHALL BE THROTTLED TO LIMIT MAXIMUM DISCHARGE TO 50 GPM (WHEN TANK IS FULL).
   (EXACT LOCATION OF THIS DRAIN TO BE COORDINATED WITH MECHANICAL EQUIPMENT).
3. 8" STORM AND OVERFLOW PIPING SHALL PITCH AT ½" DROP PER 1'-0" OF RUN AFTER LAST ROOF DRAIN CONNECTION. THE TWO PIPES SHALL COMBINE TO LEADER IN VERTICAL.
4. 6" GRAVITY FIRE SYSTEM SUPPLY UP FROM ROOF TANKS.
5. 6" GRAVITY DOMESTIC SYSTEM SUPPLY UP FROM ROOF TANKS.
6. 6" TANK FILL PUMP DISCHARGE UP TO ROOF TANKS
7. EXPRESS SHAFT
   - V 15" VENT UP & DOWN
   - FW 4" INTERMEDIATE FIRE TANK WATER SUPPLY (62ND AND 36TH FLOORS) DOWN
   - TF 6" TANK FILL DOWN
   - DW 6" DOMESTIC WATER DOWN
   - ST 8" STORM DOWN (10,305 SF)
   - S 6" SANITARY DOWN
   - G 4" GAS DOWN
8. 4" CW, 3" HW & 1½" HWR DOWN (ZONE #6 WATER SUPPLY)
9. ELECTRONIC TRAP PRIMER SIOUX CHIEF-E SERIES. TRAP PRIMER TO BE SUPPLIED WITH 3/4" CW. CONTRACTOR SHALL EXTEND TYPE L COPPER TUBING TO ALL FLOOR DRAINS IN THE VICINITY. TUBING SHALL BE MILL WRAPPED, WHEN INSTALLED BELOW GRADE OR IN SLAB.
10. 2" METER & RPZ SUPPLIED FROM ZONE #6.
    THIS STATION IS DEDICATED FOR WATER SUPPLY TO HVAC EQUIPMENT.

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE PROVIDED WITH FLANGE AND CLAMPING COLLAR FOR FLASHING WITH WATER PROOFING. CONTRACTOR SHALL COORDINATE DRAIN TYPE WITH THE TYPE OF FLOOR FINISH/WATERPROOFING.
3. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
4. PROVIDE AIR RELIEF VALVES AT HIGH POINTS AND TRAPPED SECTIONS OF ALL WATER PIPES.
5. ALL PIPING PASSING THROUGH EGRESS STAIRS & EGRESS CORRIDORS, SHALL BE PROVIDED WITH RATED ENCLOSURE.
6. EACH CW TAKE-OFF THAT SERVES HOSE BIBB SHALL BE PROVIDED WITH SHUT-OFF VALVE.
7. ALL VALVES SHALL BE MADE ACCESSIBLE.
8. PROVIDE SLEEVES FOR ALL HORIZONTAL PIPES CROSSING THROUGH BEAMS & SHEAR WALLS.
9. PROVIDE SLEEVES FOR ALL VERTICAL RISERS.
10. ALL SLEEVES FOR DOMESTIC WATER PIPES SHALL BE 2 PIPE SIZES LARGER TO ALLOW FOR PROPER INSULATION INSTALLATION.
11. ALL SLEEVES FOR WASTE, STORM & VENT PIPING SHALL BE 1 PIPE SIZE LARGER FOR PROPER INSTALLATION.
12. ALL PLUMBING FLOOR MOUNTED EQUIPMENT SHALL BE PROVIDE WITH 4" CONCRETE HOUSEKEEPING PADS. PADS SHALL EXTEND MINIMUM 3" FROM THE FOOTPRINT OF THE EQUIPMENT.



KEY PLAN

NOTES:

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09/15/2017	90% CD SET
06/02/2017	80% CD SET
03/24/2017	50% CD SUBMISSION SET
01/27/2017	SUPERSTRUCTURE SET
01/25/2017	ISSUED FOR DOB
11/17/2016	FACADE PRICING SET
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Number: Date: Revision:

Project:

City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:

Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
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New York, NY 10004
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DOB STAMPS & SIGNATURES:

DWG TITLE:

PLUMBING
67TH FLOOR PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK — ALEXANDER ZILBERMAN — LICENSED PROFESSIONAL ENGINEER — No. 085778

DATE: 09/15/2017
PROJECT #: 15056318
SCALE: 1/8" = 1'-0"
DWG NO. P-167.00

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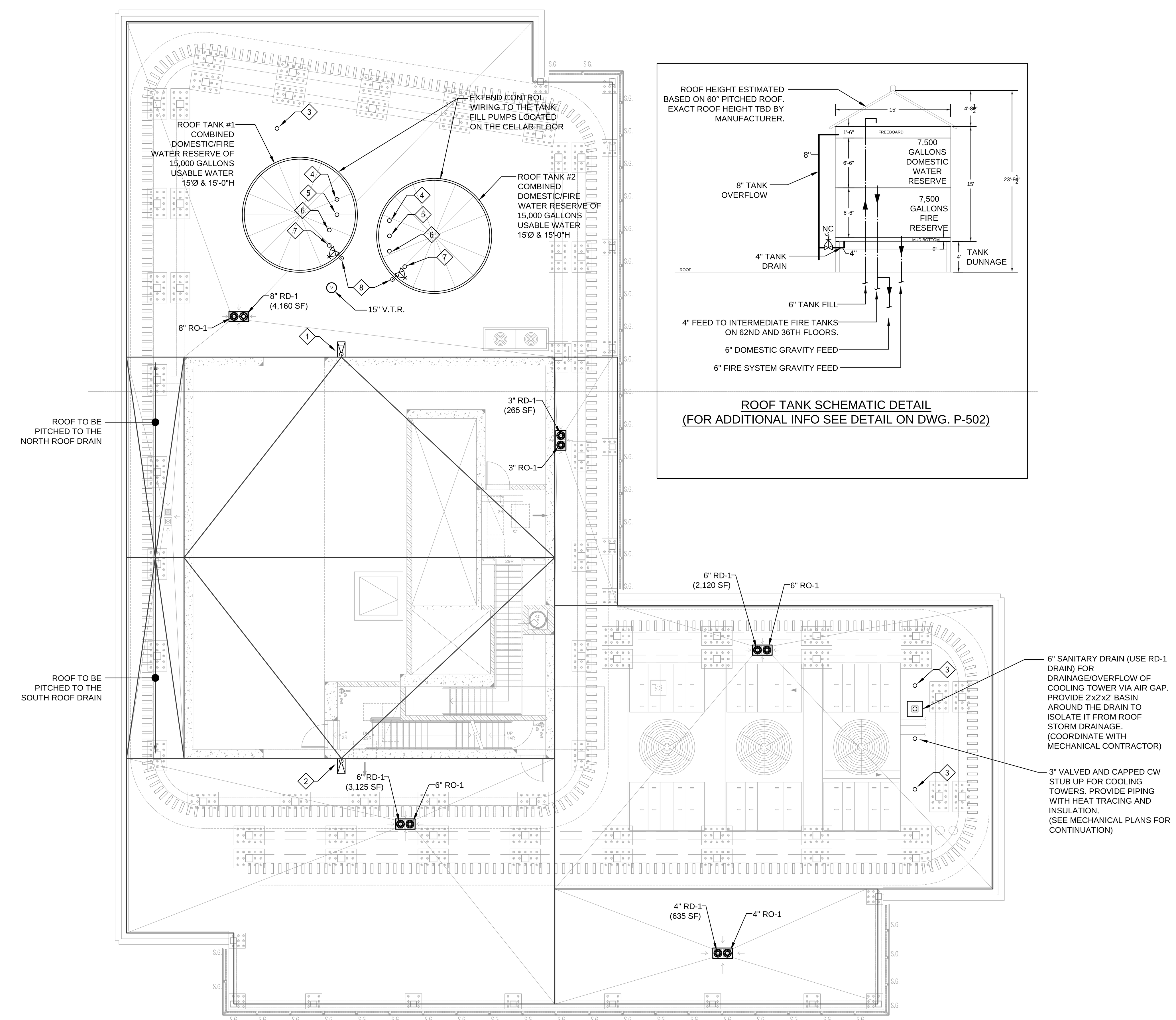
DEPT OF BLDGS 420655954 Job Number



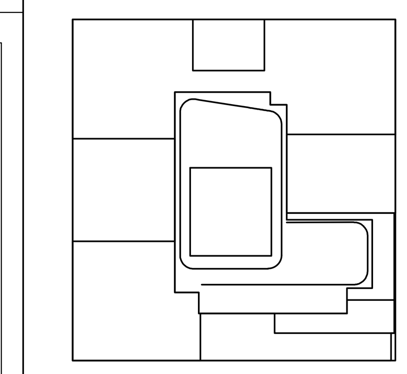
ROOF TANK SCHEMATIC DETAIL
(FOR ADDITIONAL INFO SEE DETAIL ON DWG. P-502)

KEY NOTES:

1. 1,265 SQUARE FOOT PORTION OF EMR/TMD ROOF SHALL PITCH NORTH AND SPILL TO MAIN ROOF VIA SCUPPER & LEADER. STORM WATER FROM LEADER SHALL SPILL OVER SPLASH BLOCK.
2. 1,265 SQUARE FOOT PORTION OF EMR/TMD ROOF SHALL PITCH SOUTH AND SPILL TO MAIN ROOF VIA SCUPPER & LEADER. STORM WATER FROM LEADER SHALL SPILL OVER SPLASH BLOCK.
3. 4" V.T.R. RISE 2'-0" ABOVE ROOF
4. 6" FIRE SYSTEM SUPPLY CONNECTION TO THE COMBINED TANKS. PIPE TO RISE 6" WITHIN THE TANK.
5. 6" DOMESTIC SYSTEM SUPPLY CONNECTION TO THE COMBINED TANKS. PIPE TO RISE 7'-0" WITHIN THE TANK.
6. 6" TANK FILL PUMP DISCHARGE CONNECTION TO THE COMBINED TANKS. PIPE TO RISE UP TO THE ROOF OF THE TANK AND SPILL VIA AIR GAP.
7. 4" TANK DRAIN CONNECTION TO BE INSTALLED FLUSH WITH THE BOTTOM OF THE TANK.
8. 8" TANK OVERFLOW INTERCONNECTED WITH 4" TANK DRAIN VIA NORMALLY CLOSED O.S.&Y. VALVE. VALVE TO BE PROVIDED WITH TAMPER SWITCH. OVERFLOW SHALL DISCHARGE 12" ABOVE ROOF VIA SPLASH BLOCK.

GENERAL NOTES:

1. ALL FLOOR DRAIN SHALL BE PROVIDED WITH TRAP PRIMERS.
2. ALL VALVES SHALL BE MADE ACCESSIBLE.
3. ALL WATER PIPING EXPOSED TO ELEMENTS SHALL BE PROVIDED WITH HEAT TRACING AND INSULATION. INSULATION SHALL BE WRAPPED WITH WEATHERPROOF ALUMINUM SHIELDING.
4. ALL ROOF DRAINS ARE SIZED BASED ON 6" RAINFALL FACTOR.



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DWG TITLE:
PLUMBING
68TH FLOOR/MAIN ROOF PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
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DWG NO. P-168.00
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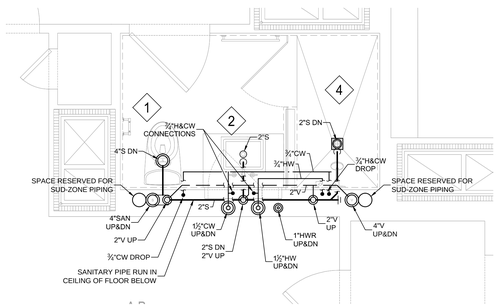
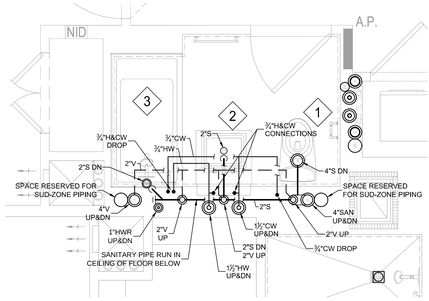
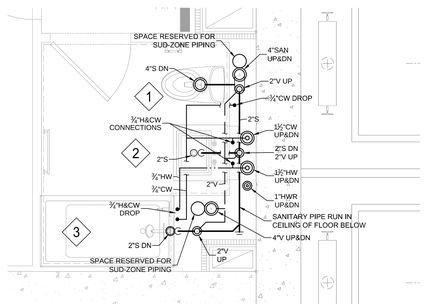
E1420035955 Scan Code



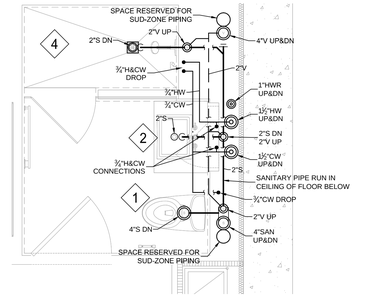
1 TYPICAL BATHROOM WITH SHOWER - TYPE 01
SCALE: ½" = 1'-0"



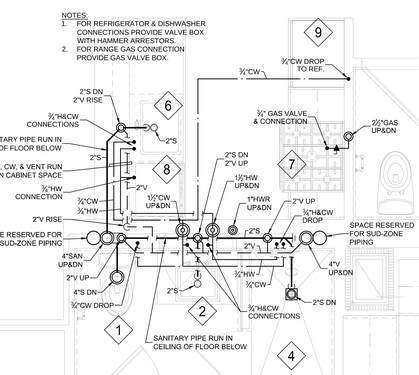
2 TYPICAL BATHROOM WITH TUB - TYPE 01
SCALE: ½" = 1'-0"



3 TYPICAL BATHROOM WITH SHOWER - TYPE 02
SCALE: ½" = 1'-0"



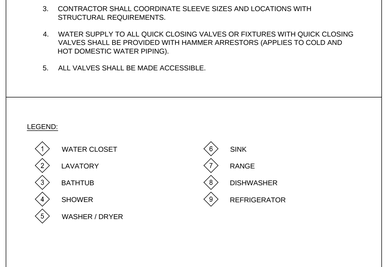
4 TYPICAL BATHROOM WITH TUB - TYPE 02
SCALE: ½" = 1'-0"



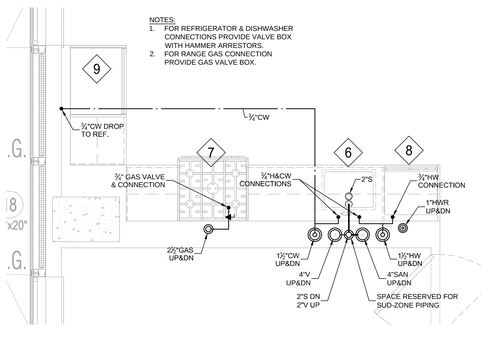
5 TYPICAL BATHROOM WITH SHOWER - TYPE 03
SCALE: ½" = 1'-0"

6 TYPICAL BACK-TO-BACK BATHROOM
SCALE: ½" = 1'-0"

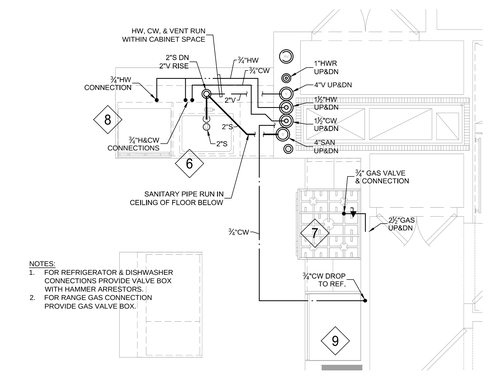
7 TYPICAL WASHER & GAS DRYER
SCALE: ½" = 1'-0"



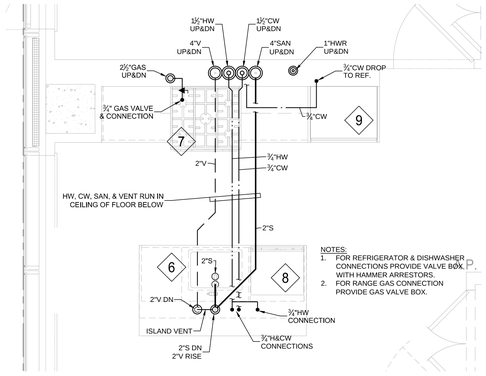
8 TYPICAL WASHER & ELECTRIC DRYER
SCALE: ½" = 1'-0"



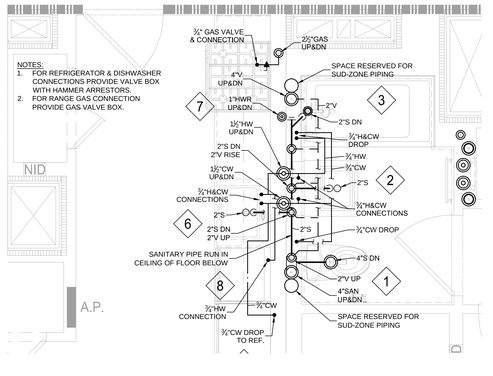
9 TYPICAL KITCHEN
SCALE: ½" = 1'-0"



10 TYPICAL PENINSULA KITCHEN
SCALE: ½" = 1'-0"



11 TYPICAL ISLAND KITCHEN
SCALE: ½" = 1'-0"



12 TYPICAL BACK-TO-BACK KITCHEN & BATHROOM
SCALE: ½" = 1'-0"

13 TYPICAL ISLAND KITCHEN
SCALE: ½" = 1'-0"

GENERAL NOTES:

1. ALL ROUGH-IN PIPES SHALL BE LOCATED WITHIN CHASE WALL.
2. PLUMBING CONTRACTOR SHALL COORDINATE ROUGH-IN WITH CHASE WALL CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE SLEEVE SIZES AND LOCATIONS WITH STRUCTURAL REQUIREMENTS.
4. WATER SUPPLY TO ALL QUICK CLOSING VALVES OR FIXTURES WITH QUICK CLOSING VALVES SHALL BE PROVIDED WITH HAMMER ARRESTORS (APPLIES TO COLD AND HOT DOMESTIC WATER PIPING).
5. ALL VALVES SHALL BE MADE ACCESSIBLE.

LEGEND:

1	WATER CLOSET	6	SINK
2	LAVATORY	7	RANGE
3	BATHTUB	8	DISHWASHER
4	SHOWER	9	REFRIGERATOR
5	WASHER / DRYER		

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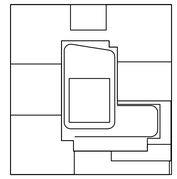

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	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
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17TH FLOOR
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Consultant:
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(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
PART PLANS

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: 1/8" = 1'-0"
DWG NO. P-201.00
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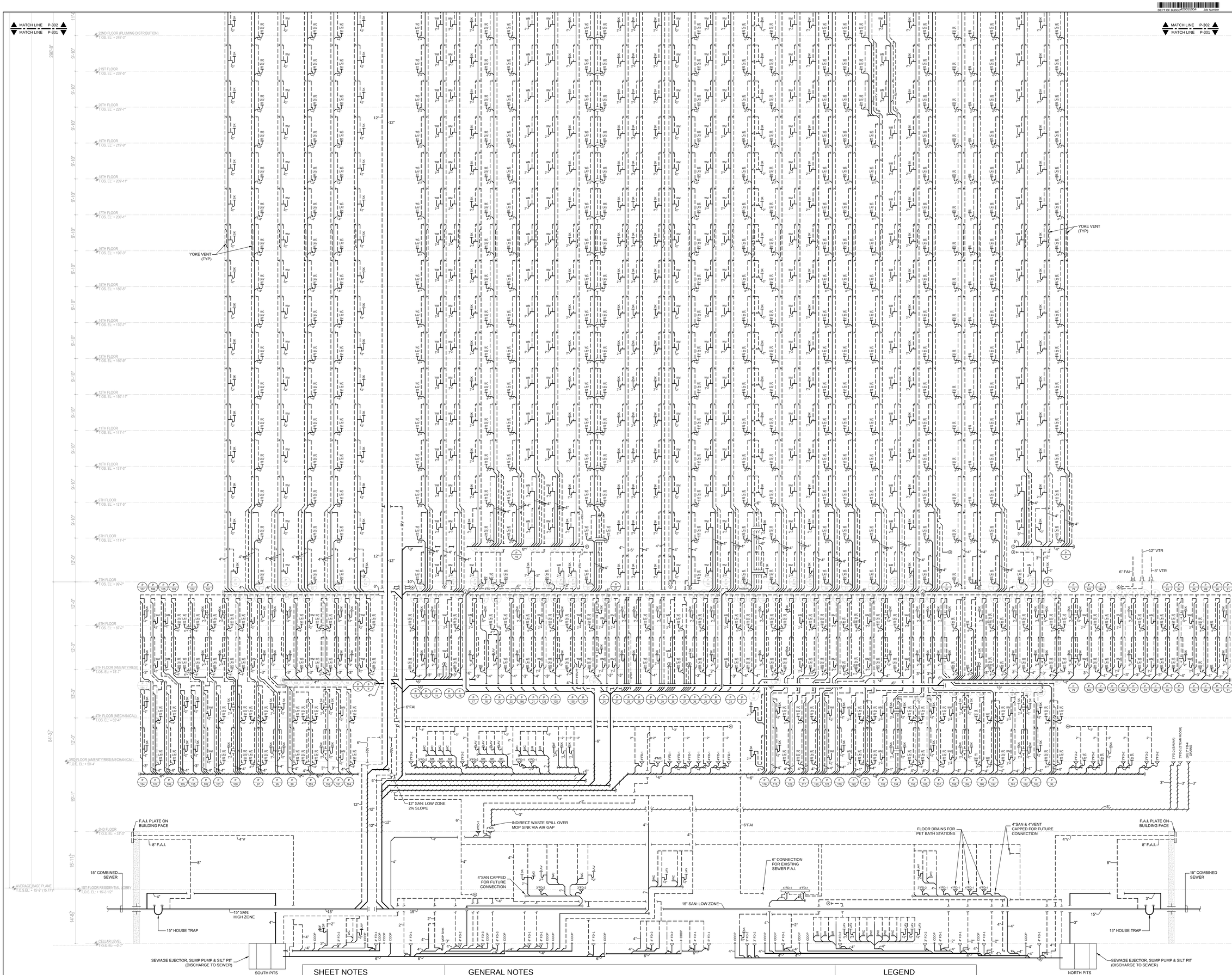
DEPT OF BUILDINGS 420055954 Job Number
ESC1955431 Scan Code



SHEET NOTES

1. WASHING MACHINES DRAIN INDIRECT TO ADJACENT FLOOR DRAINS

GENERAL NOTES

1. PROVIDE YOKE (RELIEF) VENTS AT THE BASE OF EACH SANITARY RISER AND AT EVERY 10 FLOOR INTERVAL.
2. PROVIDE TRAP PRIMERS FOR ALL MECHANICAL ROOM FLOOR DRAINS.
3. ALL HORIZONTAL NO-HUB CAST IRON PIPING 4" AND LARGER SHALL BE PROVIDED WITH BRACING AT EVERY JOINT, AS PER CISPI.
4. BASE OF EACH RISER SHALL BE RECESSED INTO THE SLEEVE, SUCH THAT THE HORIZONTAL PIPE OFF-SET IS SET AS TIGHT AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURAL SLAB. ENLARGE SLEEVE AS NEEDED TO ACCOMMODATE SUCH INSTALLATION.
5. SANITARY AND VENT PIPING FOR ALL ISLAND SINKS SHALL BE DWV COPPER PIPING. MAKE CONNECTIONS TO THE STACK VIA COPPER-TO-CAST IRON FURNCO COUPLINGS.

LEGEND

SK	SINK & DISHWASHER
LAV	LAVATORY
WC	WATER CLOSET
SH	SHOWER
BT	BATHTUB
WM	WASHING MACHINE
DF	DRINKING FOUNTAIN

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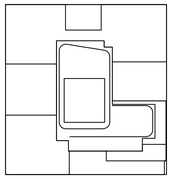

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DOB STAMPS & SIGNATURES:

DWG TITLE:

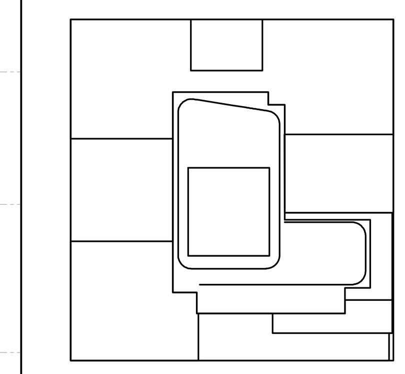
PLUMBING
SANITARY RISER DIAGRAM SHEET #1

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.

P-301.00
DWG NO.

OF



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DOB STAMPS & SIGNATURES:

DWG TITLE:

PLUMBING
SANITARY RISER DIAGRAM SHEET #2

SEAL & SIGNATURE:

STATE OF NEW YORK · DOUGLAS C. MASS · LICENSED PROFESSIONAL ENGINEER · No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
P-302.00
DWG NO.
OF

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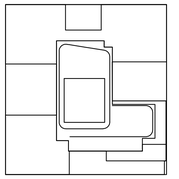

KEY PLAN

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DOB STAMPS & SIGNATURES:

DWG TITLE:

PLUMBING
SANITARY RISER DIAGRAM SHEET #3

SEAL & SIGNATURE:

STATE OF NEW YORK DOUGLAS C. KEIL No. 86572 LICENSED PROFESSIONAL ENGINEER

DATE:	09/15/2017
PROJECT #:	150318
SCALE:	N.T.S.
DWG NO.	P-303.00

OF

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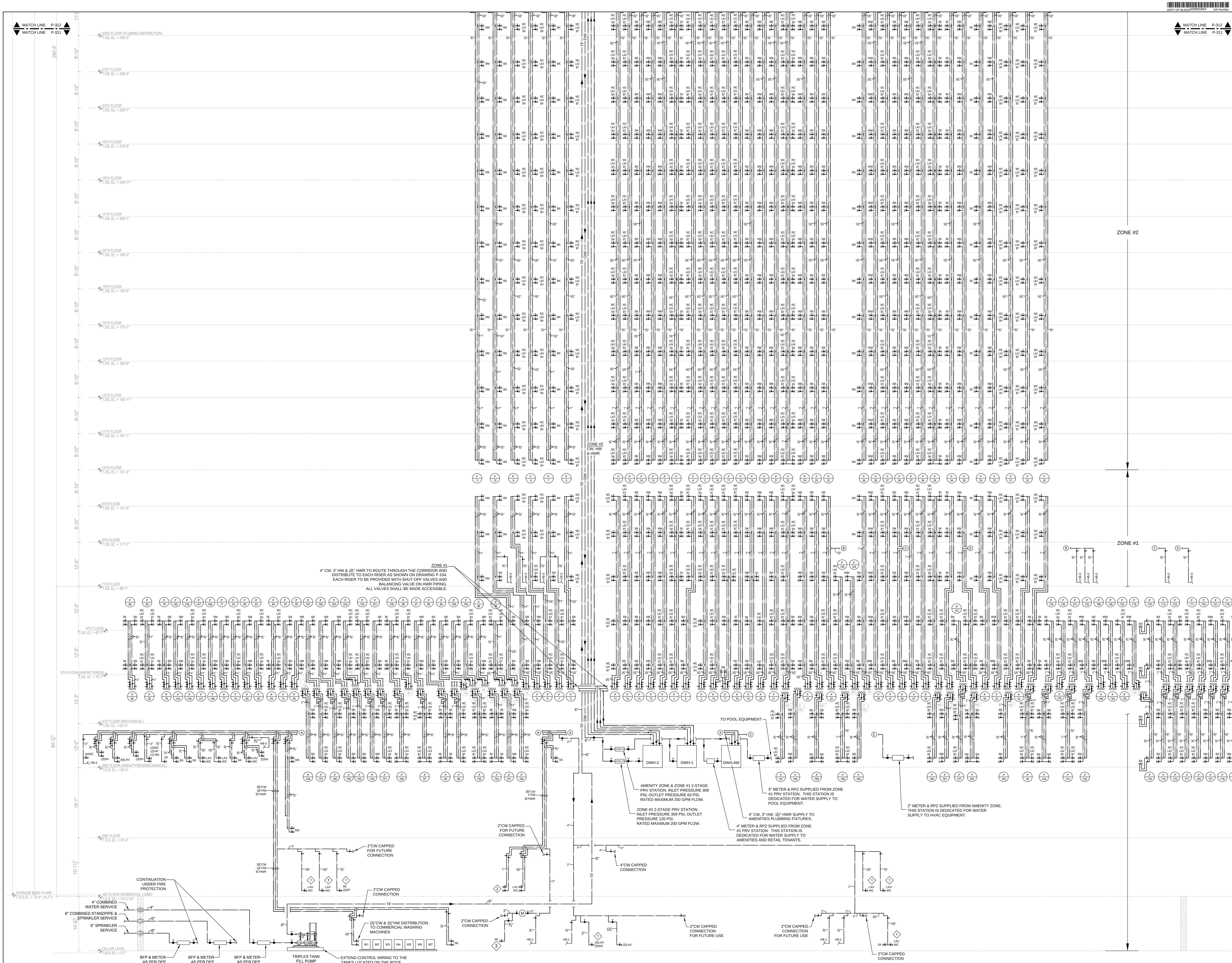

SHEET NOTES

1. PROVIDE INSTANTANEOUS WATER HEATER EWH-2 FOR HOT WATER SUPPLY TO FAUCET. THE HOT WATER SUPPLY SHALL BE PROVIDED WITH ASME 1016 LISTED MIXING VALVE.
2. 1"CW & 1"HW SUPPLY TO PET BATH STATION FAUCETS. TYPE OF FAUCETS SHALL BE DETERMINED BY ARCHITECT.
3. PROVIDE INSTANTANEOUS WATER HEATER EWH-1 FOR HOT WATER SUPPLY TO FAUCET. THE HOT WATER SUPPLY SHALL BE PROVIDED WITH ASME 1016 LISTED MIXING VALVE.

GENERAL NOTES

1. PROVIDE HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES.
2. PROVIDE SHUT-OFF VALVES OR STOPS AT CONNECTION TO EACH FIXTURE & APPLIANCE.
3. ALL SHUT-OFF VALVES MUST BE MADE ACCESSIBLE. PROVIDE ACCESS PANELS AS NEEDED.
4. SEE FLOOR PLANS FOR ADDITIONAL SCOPE INFORMATION.
5. ALL POTABLE WATER PIPING, VALVES, PUMP, FIXTURES, EQUIPMENT, ETC. MUST BE LEAD FREE LISTED.
6. PROVIDE AIR RELIEF VALVES AT HIGH POINTS & TRAPPED SECTIONS OF THE WATER PIPING. THESE VALVES SHALL BE MADE ACCESSIBLE AND SHALL BE DRAINED TO CLOSEST FLOOR DRAIN.
7. SEE DETAILS SHEET FOR ADDITIONAL INFORMATION.

LEGEND

SK	SINK, DISH WASHER & REFRIGERATOR
LAV	LAVATORY
WC	WATER CLOSET
SH	SHOWER
BT	BATHTUB
WM	WASHING MACHINE
DF	DRINKING FOUNTAIN
⊥	OFFSET

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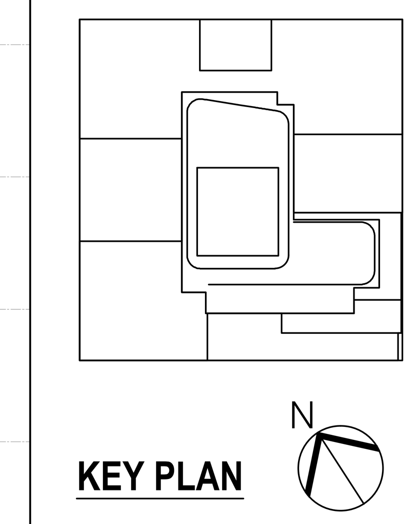

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PLUMBING
WATER RISER DIAGRAM SHEET #1

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
DWG NO. P-311.00
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DEPT OF BUILDINGS 420005954 Job Number
E352174430S Scan Code

MATCH LINE P-313
MATCH LINE P-312

47TH FLOOR T.O.S. EL. + 512'-5"
45TH FLOOR T.O.S. EL. + 502'-7"
45TH FLOOR (PLUMING DISTRIBUTION) T.O.S. EL. + 491'-7"
44TH FLOOR T.O.S. EL. + 481'-9"
43RD FLOOR T.O.S. EL. + 471'-11"
42ND FLOOR T.O.S. EL. + 462'-1"
41ST FLOOR T.O.S. EL. + 452'-3"
40TH FLOOR T.O.S. EL. + 442'-5"
39TH FLOOR T.O.S. EL. + 432'-7"
38TH FLOOR T.O.S. EL. + 422'-9"
37TH FLOOR T.O.S. EL. + 410'-9"
36TH MECHANICAL FLOOR T.O.S. EL. + 390'-3"
35TH FLOOR T.O.S. EL. + 378'-3"
34TH FLOOR T.O.S. EL. + 368'-5"
33RD FLOOR T.O.S. EL. + 358'-7"
32ND FLOOR T.O.S. EL. + 348'-9"
31ST FLOOR T.O.S. EL. + 338'-11"
30TH FLOOR T.O.S. EL. + 329'-1"
29TH FLOOR T.O.S. EL. + 319'-3"
28TH FLOOR T.O.S. EL. + 309'-5"
27TH FLOOR T.O.S. EL. + 299'-7"
26TH FLOOR T.O.S. EL. + 289'-9"
25TH FLOOR T.O.S. EL. + 279'-11"
24TH FLOOR T.O.S. EL. + 270'-1"
23TH FLOOR T.O.S. EL. + 260'-3"
22ND FLOOR (PLUMING DISTRIBUTION) T.O.S. EL. + 249'-3"

9'-10" 9'-10" 11'-0" 9'-10" 9'-10" 9'-10" 9'-10" 9'-10" 9'-10" 9'-10" 12'-0" 20'-6" 20'-6" 12'-0" 11'-0" 9'-10"
762'-0" 703'-6" 280'-8"

4" CW, 3" HW & 1½" HWR TO ROUTE THROUGH THE CORRIDOR AND DISTRIBUTE TO EACH RISER AS SHOWN ON DRAWING P-136. EACH RISER TO BE PROVIDED WITH SHUT-OFF VALVES AND BALANCING VALVE ON HWR PIPING. ALL VALVES SHALL BE MADE ACCESSIBLE.

ZONE #4
4" CW, 3" HW & 1½" HWR TO ROUTE THROUGH THE CORRIDOR AND DISTRIBUTE TO EACH RISER AS SHOWN ON DRAWING P-136. EACH RISER TO BE PROVIDED WITH SHUT-OFF VALVES AND BALANCING VALVE ON HWR PIPING. ALL VALVES SHALL BE MADE ACCESSIBLE.

ZONE #5 MASTER PRV STATION. INLET PRESSURE 155 PSI, OUTLET PRESSURE 133 PSI. PRV SHALL HAVE A MAXIMUM CAPACITY OF 250 GPM.

ZONE #4 MASTER PRV STATION. INLET PRESSURE 155 PSI, OUTLET PRESSURE 85 PSI. PRV SHALL HAVE A MAXIMUM CAPACITY OF 250 GPM.

ZONE #3 MASTER PRV STATION. INLET PRESSURE 155 PSI, OUTLET PRESSURE 30 PSI. PRV SHALL HAVE A MAXIMUM CAPACITY OF 250 GPM.

ZONE #3
4" CW, 3" HW & 1½" HWR TO ROUTE THROUGH THE CORRIDOR AND DISTRIBUTE TO EACH RISER AS SHOWN ON DRAWING P-135. EACH RISER TO BE PROVIDED WITH SHUT-OFF VALVES AND BALANCING VALVE ON HWR PIPING. ALL VALVES SHALL BE MADE ACCESSIBLE.

ZONE #2
4" CW, 3" HW & 1½" HWR TO ROUTE THROUGH THE CORRIDOR AND DISTRIBUTE TO EACH RISER AS SHOWN ON DRAWING P-120. EACH RISER TO BE PROVIDED WITH SHUT-OFF VALVES AND BALANCING VALVE ON HWR PIPING. ALL VALVES SHALL BE MADE ACCESSIBLE.

ZONE #4 CW, HW & HWR

2" METER & RPZ SUPPLIED FROM ZONE #4. THIS STATION IS DEDICATED FOR WATER SUPPLY TO HVAC EQUIPMENT.

DWH-3 DWH-4 DWH-5

HBL3

1T DW 6" 6"

ZONE #4

ZONE #3

ZONE #2

MATCH LINE P-312
MATCH LINE P-311

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	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
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Consultant:
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140 Broadway 25th Floor
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(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
WATER RISER DIAGRAM SHEET #2

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
DWG NO. P-312.00

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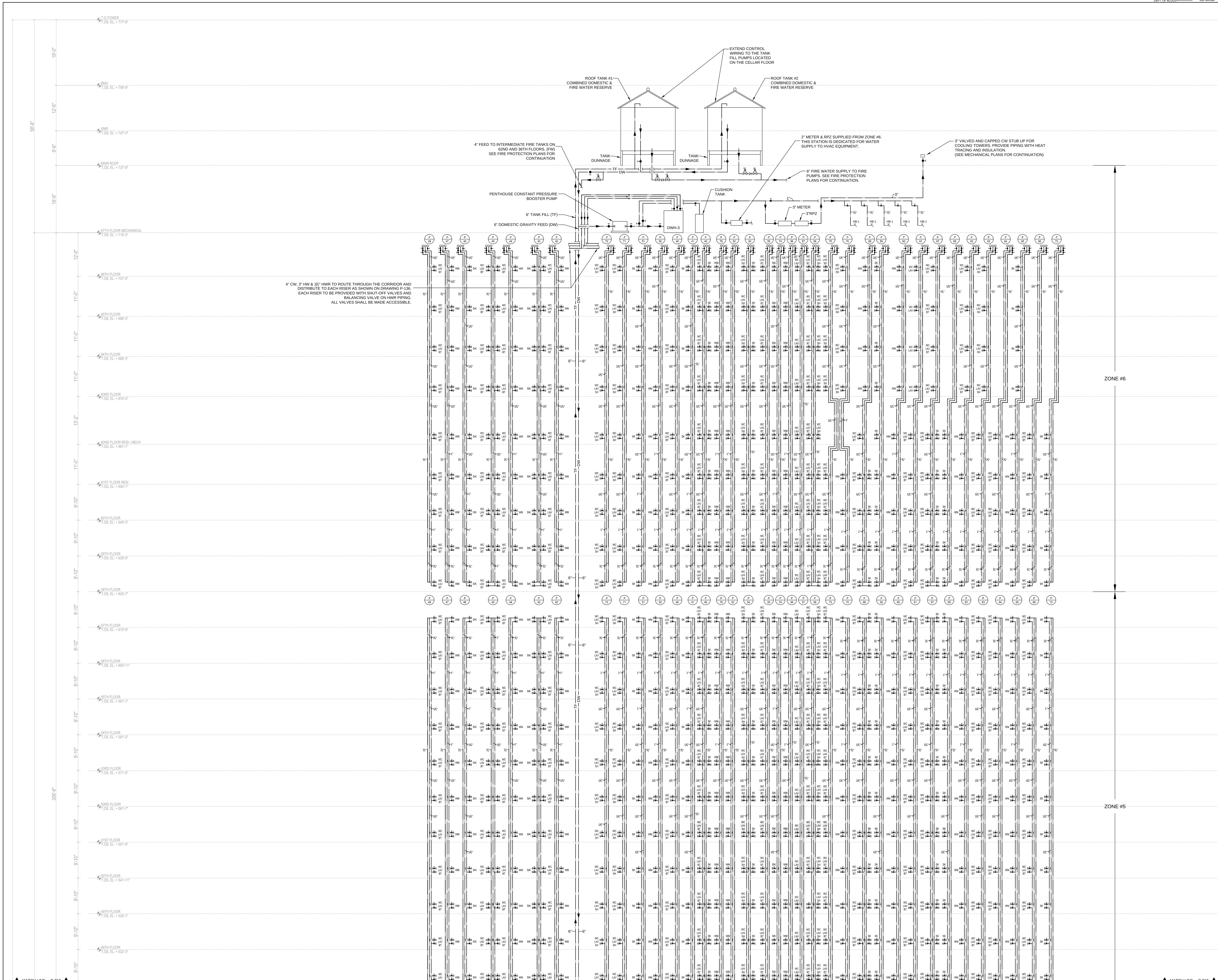
FILE NAME: I:\150318\PLUM_Back-up\2017-10-11 DOB Filing\150318_P-311, 312, 313Water).dwg SAVED ON 10/6/2017 4:40 PM PLOTTED ON 10/12/2017 11:59 AM PLOTTED BY ZILBERMAN, ALEX



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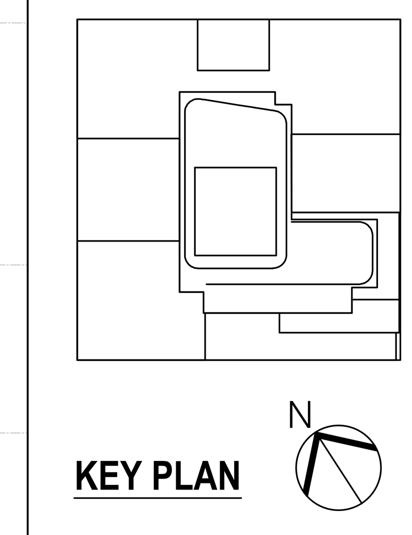

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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
WATER RISER DIAGRAM SHEET #3

SEAL & SIGNATURE:
STATE OF NEW YORK · DOUGLAS C. MASS · No. 58375 · LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
P-313.00
DWG NO.
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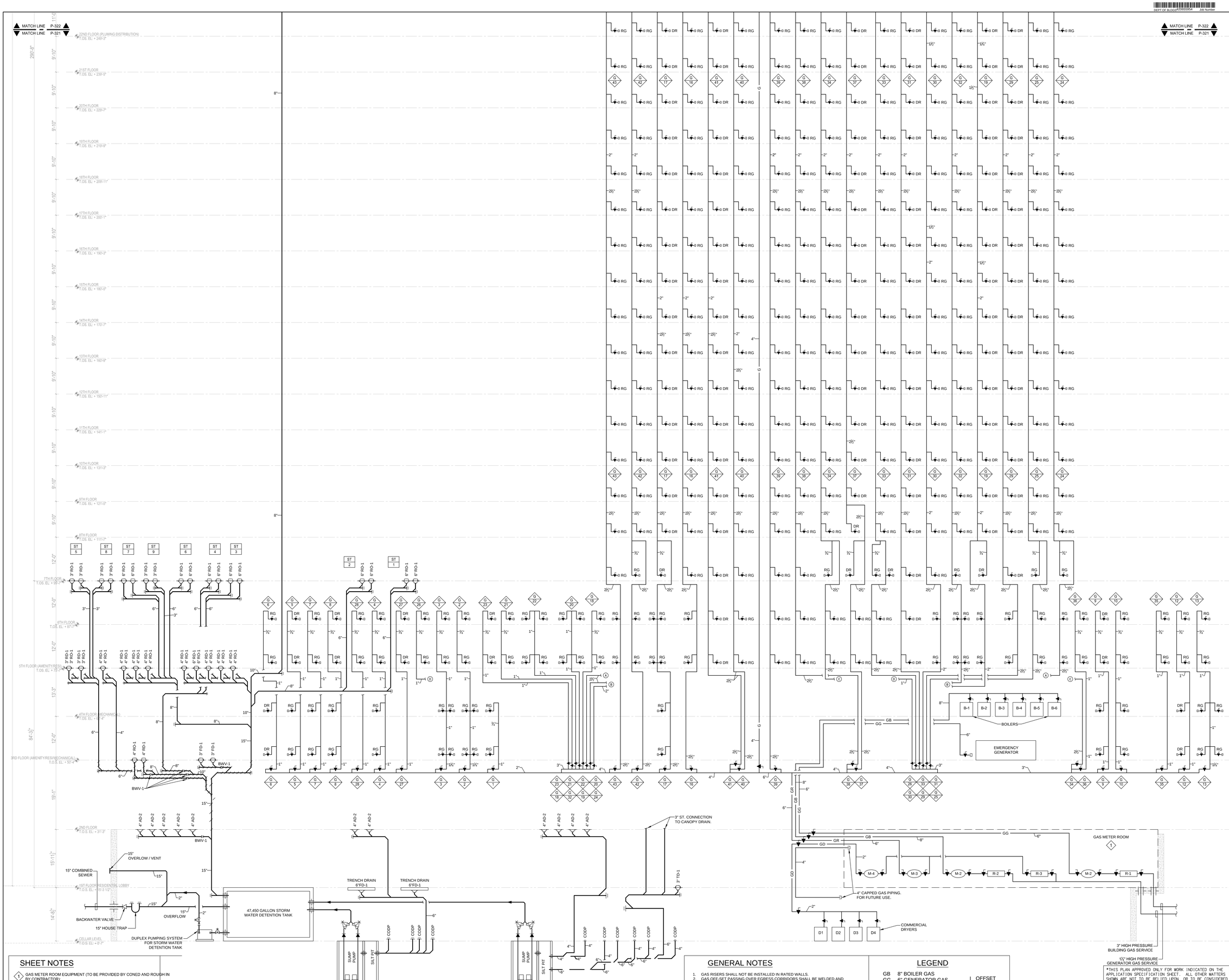
E5937477955 Scan Code

MATCH LINE P-322
MATCH LINE P-321



SHEET NOTES

1. GAS METER ROOM EQUIPMENT (TO BE PROVIDED BY CONED AND ROUGH IN BY CONTRACTOR):
   - R-1 TWIN REGULATOR FOR GENERATOR, 1PSI OUTLET PRESSURE.
   - R-2 SINGLE REGULATOR FOR BOILERS, 14" W.C. OUTLET PRESSURE.
   - R-3 TWIN REGULATOR FOR RESIDENTIAL, 6" W.C. OUTLET PRESSURE.
   - M-1 SINGLE METER FOR GENERATOR
   - M-2 SINGLE METER FOR BOILERS
   - M-3 TWIN METER FOR RESIDENTIAL
   - M-4 SINGLE METER FOR COMMERCIAL LAUNDRY

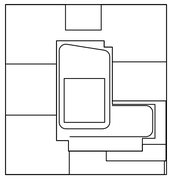
GENERAL NOTES

1. GAS RISERS SHALL NOT BE INSTALLED IN RATED WALLS.
2. GAS OFF-SET PASSING OVER EGRESS CORRIDORS SHALL BE WELDED AND PROVIDED WITH RATED ENCLOSURE.
3. ALL GAS RISER SHUT-OFF VALVES SHALL BE MADE ACCESSIBLE.
4. ALL HORIZONTAL PIPE OFF-SETS SHALL BE INSTALLED TIGHT TO SLAB. CONTRACTOR TO COORDINATE ENLARGE SLAB OPENING TO ALLOW BASE OF RISER OFF-SET FITTING TO BE CONTAINED WITHIN THE SLAB OPENING.
5. PROVIDE BRACING FOR STORM PIPING ON HORIZONTAL PIPE JOINTS AND BASE OF RISERS.
6. GAS PIPE BRANCHES SHALL BE TAKEN OFF RISER WITH NOT LESS THAN TWO-ELBOW SWING.

LEGEND

GB	8" BOILER GAS
GG	6" GENERATOR GAS
GR	6" RESIDENTIAL GAS
GD	2" DRYER GAS
G	GAS
RG	RANGE
DR	DRYER

⊥ OFFSET



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PLUMBING
GAS & STORM RISER DIAGRAM SHEET #1

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PROJECT #: 150318
SCALE: N.T.S.
P-321.00
DWG NO.

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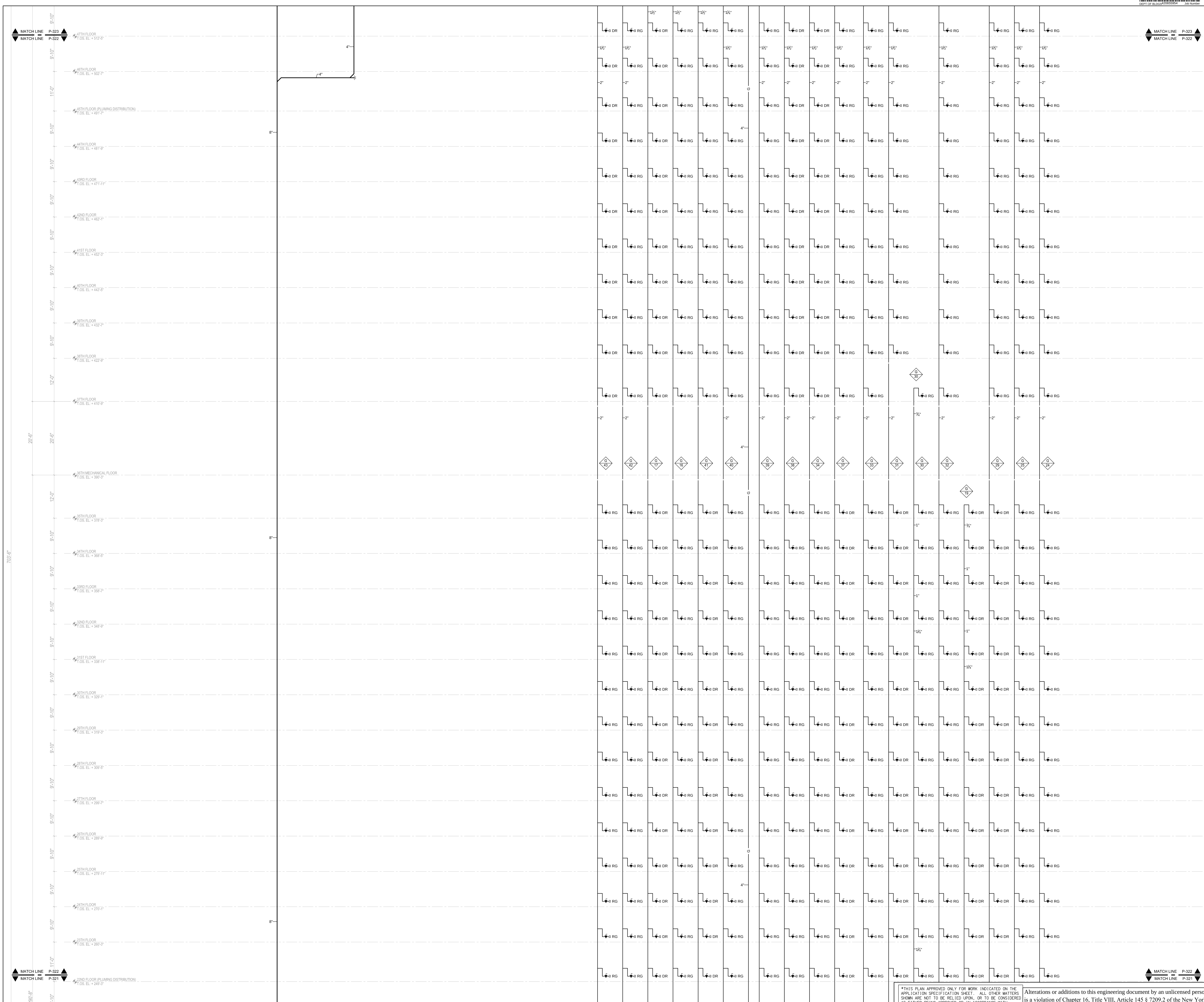

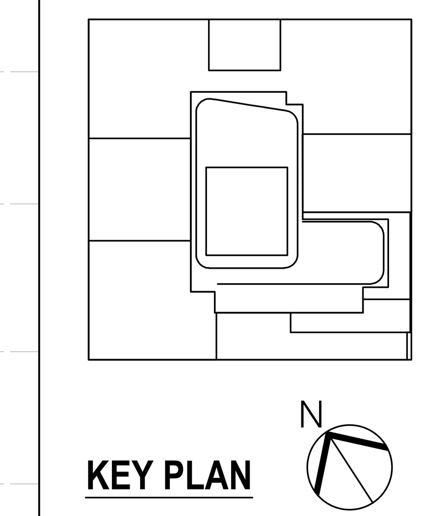

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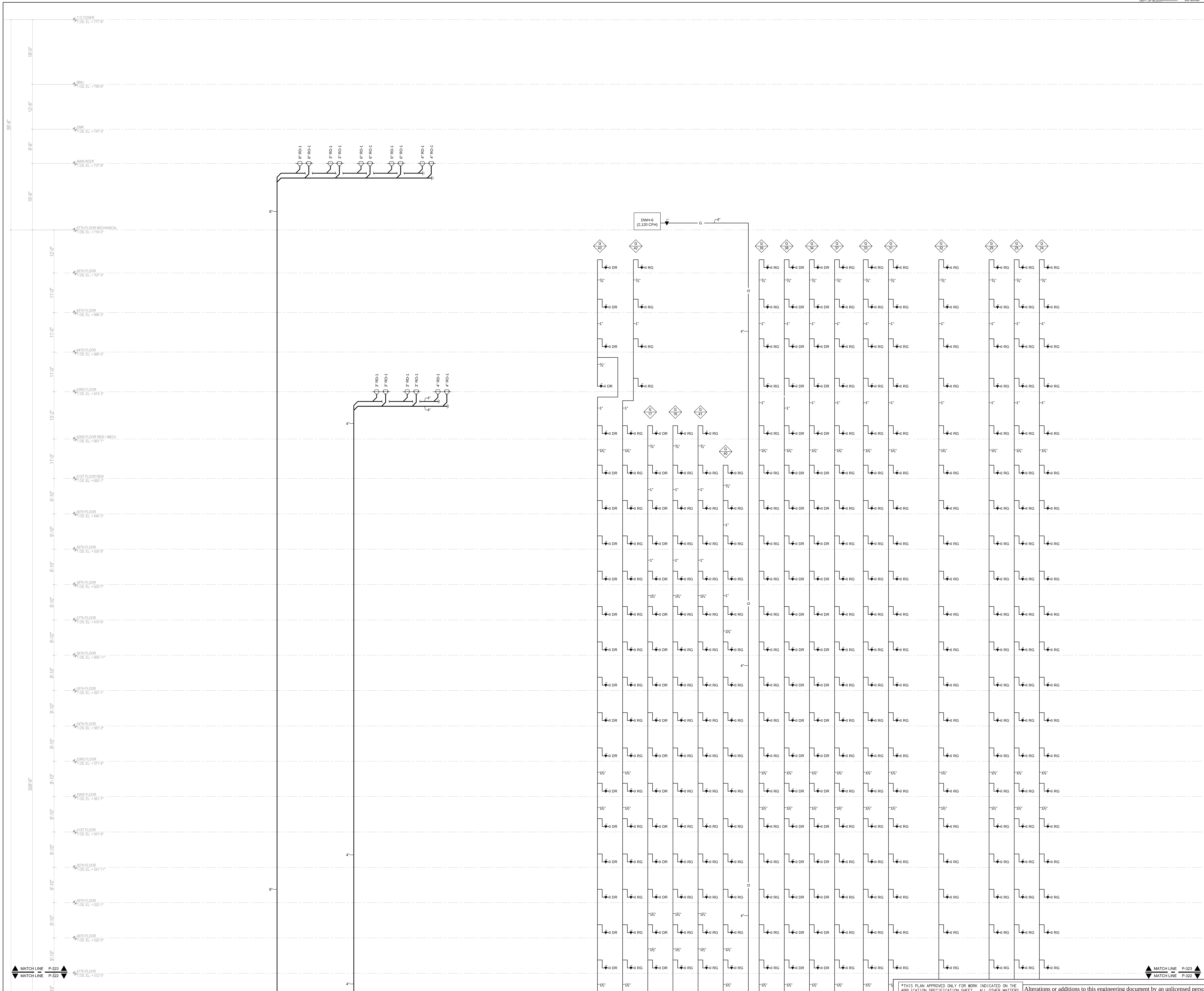

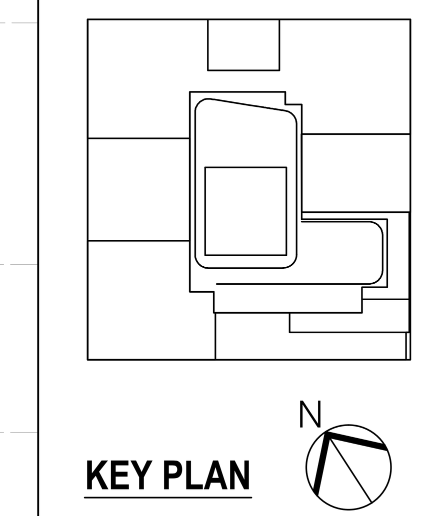

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ES566974879 Scan Code

MATERIALS SCHEDULE SHEET

NOTES:
1. FOR REQUIRED PRESSURE RATING SEE RISER DIAGRAM.
2. INSTALL IN TRENCH OR SPLIT TILE CONDUIT.
3. ALL MATERIALS SELECTED ON THIS SCHEDULE MUST BE APPROVED BY THE LOCAL AUTHORITIES.

SYSTEM	PIPES: CAST IRON SOIL PIPE	DUCTILE IRON	TYPE 'L' COPPER TUBING	DWV COPPER DRAINAGE	GALVANIZED STEEL SCHEDULE 40 (ROLL GROOVED)	304 STAINLESS STEEL SCHEDULE 40	BLACK STEEL SCHEDULE 40	FITTINGS: C.I. HUB & SPIGOT	C.I. NO-HUB	DUCTILE IRON	BRASS	COPPER OR COPPER ALLOY	GALVANIZED STEEL	DWV COPPER	304 STAINLESS STEEL	MALLEABLE IRON	BLACK STEEL	JOINTS: THREADED	SOLDERED	WELDED	BRAZED	MECH. JOINT - VICTAULIC	MECH. JOINT - NO-HUB	MECH. JOINT - GASKETED	MECH. JOINT - FLANGED	MISC.: MILL WRAP	LEAD FREE	EXPANSION LOOP EVERY 50 FEET	UTILITY SERVICE UNIT ELBOW	FOLLOW UTILITY COMPANY REQUIREMENTS
BURIED DRAINAGE & VENT	•	•						•																•			•				
INDIRECT WASTE	•			•	•				•				•	•					•		•	•	•							
HOUSE DRAINS - INSIDE OF BUILDING WALL	•	•						•		•														•						
HOUSE SEWERS - OUTSIDE OF BUILDING WALL, TO PUBLIC SEWER		•								•														•		•				
SANITARY & VENT STACKS	•							•																•						
SANITARY & VENT BRANCHES	•								•														•							
STORM LEADERS AND BRANCHES ABOVE 2ND FLOOR	•				•	•		•	•				•		•					•		•	•	•						
STORM LEADERS AND BRANCHES BELOW 2ND FLOOR		•			•	•				•			•		•					•		•			•					
DETENTION TANK VENT/OVERFLOW					•								•									•								
EJECTOR & SUMP PUMP DISCHARGE					•								•									•								
PUMP DISCHARGE AND GRAVITY POTABLE WATER						•									•					•							•			
C.W. - 4" & SMALLER			•								•	•							•		•				•		•			
C.W. - 5" & LARGER						•									•					•					•		•			
C.W. - BURIED BUILDING SERVICE		•				•				•					•					•					•	•	•			•
C.W. - BURIED INSIDE BUILDING			•								•	•							•							•	•			
H.W. & H.W.R.			•								•	•							•		•						•	•		
GAS SERVICE							•									•	•	•		•						•			•	•
GAS INSIDE BUILDING (3" AND SMALLER)							•									•	•	•		•										
GAS INSIDE BUILDING (4" AND LARGER)							•										•			•										

DOMESTIC WATER HEATER & PRESSURE VESSLE SCHEDULE

AERCO HUBBELL DESIGNATION	TYPE	NO. REQUIRED	LOCATION	SERVING	MODEL	PLUMBING DATA: STORAGE WATER TEMPERATURE °F	GALS./HTR. RECOVERY	TOTAL STORAGE SIZE (GAL.)	WATER WORKING PRESSURE (PSI)	TEMP. RISE °F	TEMP. HW OUTLET °F (VIA MIXING VALVE)	MIN / MAX STATIC INLET GAS PRESSURE (INCHES OF WATER COLUMN)	GAS INPUT (C.F.H.)	ASHRAE TABLE 7.8 HOT WATER BOILER EFFICIENCY	THERMAL EFFICIENCY %	HVAC DATA: NOMINAL CAPACITY MBH	BOILER WATER SUPPLY FLOW (GPM)	BOILER WATTER SUPPLY/RETURN (DEG. F)	BOILER WATER WORKING PRESSURE	ELECTRIC DATA: KW. MULTIELEMENT	VOLTS	PHASE	AMPS	CYCLE	PHYSICAL DATA: DIMENSIONS L X W X H (INCHES)	SHIPPING WEIGHT (LBS)	OPERATING MAX WEIGHT (LBS)	ACCESSORIES
DWH-AM	INDIRECT DOMESTIC WATER HEATER ASSEMBLY	1	3RD FLOOR MER	AMENITY	AERCO DHWG	140	1,680	400	150	80	120	-	-	-	-	1800	56	150/100	150	-	120	1	(2)30	60	120X48X96	4900	8500	HOT WATER FLOW CONTROL VALVE MIXING VALVE TEMPERATURE SENSOR ARMSTRONG DRV80 MIXING VALVE
DWH-1	INDIRECT DOMESTIC WATER HEATER ASSEMBLY	1	3RD FLOOR MER	3RD-9TH FLOOR APTS.	AERCO DHWG	140	2,280	400	150	80	120	-	-	-	-	2400	76	150/100	150	-	120	1	(2)30	60	120X48X96	4900	8500	HOT WATER FLOW CONTROL VALVE MIXING VALVE TEMPERATURE SENSOR ARMSTRONG DRV80 MIXING VALVE
DWH-2	INDIRECT DOMESTIC WATER HEATER ASSEMBLY	1	3RD FLOOR MER	10-22ND FLOOR APTS	AERCO DHWG	140	2,520	400	150	80	120	-	-	-	-	2800	84	150/100	150	-	120	1	(2)30	60	120X48X96	4900	8500	HOT WATER FLOW CONTROL VALVE MIXING VALVE TEMPERATURE SENSOR ARMSTRONG DRV80 MIXING VALVE
DWH-3	INDIRECT DOMESTIC WATER HEATER ASSEMBLY	1	36TH FLOOR MER	23RD-35TH FLOOR APTS	AERCO DHWG	140	2,520	400	150	80	120	-	-	-	-	2800	84	150/100	300	-	120	1	(2)30	60	120X48X96	4900	8500	HOT WATER FLOW CONTROL VALVE MIXING VALVE TEMPERATURE SENSOR ARMSTRONG DRV80 MIXING VALVE
DWH-4	INDIRECT DOMESTIC WATER HEATER ASSEMBLY	1	36TH FLOOR MER	37-45TH FLOOR APTS	AERCO DHWG	140	2,280	400	150	80	120	-	-	-	-	2400	76	150/100	300	-	120	1	(2)30	60	120X48X96	4900	8500	HOT WATER FLOW CONTROL VALVE MIXING VALVE TEMPERATURE SENSOR ARMSTRONG DRV80 MIXING VALVE
DWH-5	INDIRECT DOMESTIC WATER HEATER ASSEMBLY	1	36TH FLOOR MER	46-57TH FLOOR APTS	AERCO DHWG	140	2,600	400	150	80	120	-	-	-	-	2600	80	150/100	300	-	120	1	(2)30	60	120X48X96	4900	8500	HOT WATER FLOW CONTROL VALVE MIXING VALVE TEMPERATURE SENSOR ARMSTRONG DRV80 MIXING VALVE
DWH-6	GAS FIRE DOMESTIC WATER HEATER	1	67TH FLOOR MER	58-66TH FLOOR APTS	AERCO DHWG-INN1060D-400	140	2,448	450	150	80	120	4 / 14	2,120	77	96.4	--	--	--	--	--	120	1	(2)20	60	120X60X104	5000	9000	SKID WITH, EXPANSION TANK, ACID NEUTRALIZATION KIT, CIRCULATIORS & STORAGE TANKS. ARMSTRONG DRV80 MIXING VALVE
CT-1	CUSHION TANK	1	67TH FLOOR MER		WELL-X-TROL WX-405-C AMTROL	-	-	90	-	-	-	-	-		-		--	--	--	--	--	--		--				PROVIDE SHUT-OFF VALVE AND PRESSURE GAUGE
ET-1	THERMAL EXPANSION TANK	7	3RD. 36TH & 67TH		AMTROL ST-42V-C	-	-	17.5	-	-	-	-	-		-		--	--	--	--	--	--		--				PROVIDE SHUT-OFF VALVE, PRESSURE GAUSE AND THERMOSTAT
ET-2	THERMAL EXPANSION TANK	TBD			AMTROL ST-5C	-	-	2.0	-	-	-	-	-		-		--	--	--	--	--	--		--				PROVIDE SHUT-OFF VALVE, PRESSURE GAUSE AND THERMOSTAT
EWH-1	INSTANTENIOUS ELECTRIC WATER HEATER	TBD			HUBBELL TX24-3T4	-	2.3	-	80	70	120	-	-		-		--	--	--	24	460	3	29	60	18"X25"X5"			PROVIDE WITH THREADED INLET/OUTLET
EWH-2	INSTANTENIOUS ELECTRIC WATER HEATER	TBD			BOSCH	-	0.5	-	80	70	120	-	-		-		--	--	--	6	277	1	25	60	12.75"X7"X3"			PROVIDE WITH THREADED INLET/OUTLET
EWH-3	TANK TYPE ELECTRIC WATER HEATER	TBD			BREADFORD WHITE LE2120T3-3	120	52	120	80	80	120	-	-		-		--	--	--	10	208	3		60				PROVIDE MIXIGN VALVE

BACKFLOW PREVENTER SCHEDULE

DESIGNATION	SIZES (INCHES)	SERIES NO.	REMARKS
RPZ-SERVICE	4	WILKINS 375 OSY	DOMESTIC AND COMBINED SERVICES
DCDA-SERVICE	6	WILKINS 350 ADA	FIRE/SPRINKLER SERVICE (W/ TEMPER SWITCHES)
RPZ-1	3/4"-TO-2"	WILKINS 975XL	SECONDARY PROTECTION ON SUPPLY TO MECHANICAL EQUIPMENT, COMMERCIAL LAUNDRY, GROUND HYDRANTS, ETC..
BWV-1	3"-TO-10"	Z1095	AS NOTED ON DRAWINGS

MIXING VALVE SCHEDULE

TAG	SET TEMPERATURE (F)	SERIES NO.	REMARKS
MV-1	120	ARMSTRONG THE BRAIN MODEL DRV80	CENTRAL MIXING VALVE FOR DOMESTIC WATER HEATERS
MV-2	110	BRADLEY S59-4016S	POINT OF USE MIXIG VALVE

NOTE: THIS VALVE SCHEDULE IS BASED ON MILWAUKEE VALVES

PLUMBING VALVE SCHEDULE

TYPE	MILWAUKEE FIG. NO.	SIZE	FLANGED	SCREWED	SOLDER	SOCKET	BRASS	W/ADAPTER	O.S.&Y.	N.R.S.	BRONZE	I.B.B.M.	ALL IRON	CAST IRON	HOSE END	175# WWP	200# WPP	250# WWP	300# WWP	400# WWP	500# WWP	600# WWP	960# WWP	1440# WWP	BURIED SERV.	LOCATION: REQ. AT EQUIP.	SUMP DISCH.	EJECT. DISCH.	GAS	C.W. SERVICE	C.W. 4" & UP	C.W. 3" & DN.	HW HWC 4" & UP	HW HWC 3" & DN.	D.W. D.W.C.	C.W. 2" & DN.	HW HWC 2" & DN
GATE VALVES	115	3/8"-3"			•					•	•						•															•		•	•		
	105	1/4"-3"		•						•	•						•															•					
	F-2885	2"-12"	•						•			•					•									•	•	•			•		•				
	F-2882	2"-12"	•							•		•					•																				
	G-743**	2"-16"						•		•		•					•								•					•							
BALL VALVES	BA-100	1/4"-2"		•			•															•														•	•
	BA-150	1/4"-2"			•		•															•														•	•
CHECK VALVES	F-2974	2"-12"	•									•					•														•		•				
	G927**	2"-6"		•								•					•																				
	2974	2"-12"	•									•					•										•	•									
	510T	1/4"-2"		•							•								•																		
	1509	3/8"-3"			•						•						•															•		•	•		
GLOBE & ANGLE VALVES	502	1/8"-3"		•							•																					•		•			
	1590T	3/8"-3"			•						•								•															•	•		
	595T	1/8"-3"		•							•								•																		
	F-2981	2"-10"	•						•			•					•																				
	24***	3/4"-3"		•						•	•				•		•															•		•	•		
	F-541**	3"-8"	•									•									•					•											
PLUG VALVES	611*	1/2"-6"		•									•				•												•								
	611*	1"-4"		•									•			•													•								
	612*	1"-8"	•										•				•												•								

* HOMESTEAD FIGURE NUMBERS
** STOCKHAM FIGURE NUMBERS
*** WALWORTH FIGURE NUMBERS

PUMP SCHEDULE

BELL & GOSSETT FLYGT STANCORE Designation	Description	NO. Required	G.P.M. EACH PUMP	T.D.H. (feet)	MODEL NO.	INLINE	MECH. SEAL	STAGES	VERT. SPLIT	WORKING PRESS. (PSI)	H.P. EACH	R.P.M.	VOLTS	PHASE	CYCLE	MANUAL CONTROL	STARTING STEPS	AUTO CONTROL	PILOT LIGHT	PUMP RIG OUTLET PRESSURE RANGE	CONTROL CENTER	EMERGENCY POWER (ONE PUMP ONLY)	NOTES
TFP-1	TRIPLEX TANK FILL PUMP SYSTEM	1	199	710	PEERLESS MSL50B-5			5		500	60	3550	460	3	60			•	•	340-440	•	•	ASSEMBLY SYNCROFLO MODEL 398TMSM307-TF-GAF HORIZONTAL MULTISTAGE DIFFUSER PUMPS WITH SOLID CAST BRONZ IMPELLERS. SYSTEM HEADER 6" SCHEDULE 40 STAINLESS STEEL.
CPB-1	PENTHOUSE DUPLEX DOMESTIC WATER PUMP	1	90	65	PEERLESS C1020A					175	5	1750	460	3	60			•	•	34-36	•		ASSEMBLY 90DES28-VFD-GAF/ WX-405-C CUSHION TANK
SE-1&2	DUPLEX SEWAGE EJECTOR PUMP	2	120	30	FLYGT #NP3085WL70 IMP 465		•	1	•	--	5	1755	208	3	60			•	•	--	•	•	4" SUB-RIG, REVERE FW CONTROLS, POLISHED ALUMINUM
SP-1&2	DUPLEX SUMP PUMP	2	120	30	FLYGT #NP3085WL70 IMP 465		•	1	•	--	5	1755	208	3	60			•	•	--	•	•	DIAMONF PLATE COVER AND DOUBLE JUNCTION BOX
DTP-1	STORM DETENTION TANK DUPLEX PUMP	1	112	33.0	FLYGT DRY PIT NZ3085 IMP 462						5	1800	208	3	60			•	•	--	•	•	DUPLEX ASSEMBLY - SEE APPROVED SD1&2 PLANS
EP-1	PASSANGER ELEVATOR SUMP PUMP	9	50	36	STANCOR SV-100-OM		•	1	•	--	1	3500	208	3	60			•	•	--	•		ELEVATOR SUMP PUMP
HWRCP-1	HOT WATER RECIRCULATION PUMP	4	50	17	B&G ECOCIRC XL 20-140	•	•	1		--	1/2	1725	208	1	60			•	•	--	•		FOR HOT WATER RETURN SYSTEMS. CONNECT TO BMS, OPERATE ON SET TEMPERATURE OF 120F.

DRAIN SCHEDULE

FIXTURE MANUFACTURER: WADE, ZURN

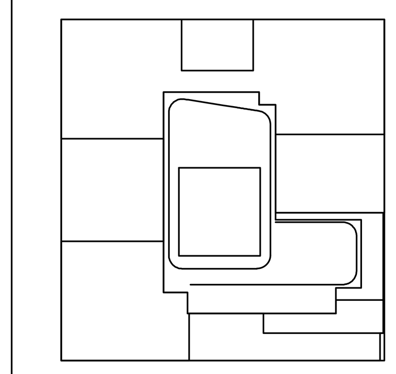
DESIGNATION	REQUIRED	SERIES NO. (ZURN)	BODY: CAST IRON	GALVANIZED	ALL BRONZE	SECONDARY CLAMP	CLAMPING DEVICE	DECK CLAMP	BACK WATER VALVE	ROOF SUMP RECEIVER	STAINLESS STEEL	STRAINER: CAST IRON	GALVANIZED	ALL BRONZE	NIKEL BRONZE	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	BRONZE MESH SCREEN	FUNNEL TOP	FLAT TOP	DOME	RAISED LIP	EXTENSION	STAINLESS STEEL MASH	FUNNEL	ADJUSTABLE TOP	REMARKS
AD-1		Z154-DT-SC-VP-Y	•				•	•				•			•		•							•							PLAZA DRAIN
AD-2		Z533-C-VP-Y	•				•	•				•			•		•							•				•			PARKING DECK DRAIN
FD-1		Z-541-DX	•				•	•				•			•		•							•							MECHANICAL ROOM FLOOR DRAIN
FD-2		Z-415B-DP-VP-Y	•				•	•				•			•		•							•						•	FINISHED SPACE FLOOR DRAIN
FD-3		ZM1751-HD-KC-Y-DX	•									•					•	•						•							LAUNDRY DRAIN
FD-4		TBD																													POOL AREA CHANNEL DRAIN
SD-1		BY ARCHITECT																													SHOWER DRAIN
RD-1		Z-164-SC	•				•	•				•													•						COMBINED ROOF AND OVERFLOW DRAIN
RO-1			•				•	•				•													•						
TD-1		Z-158-DP-TS	•				•	•				•												•							TERRACE (AREA DRAIN)
TO-1		Z-158-DP-TS	•				•	•				•												•							TERRACE (OVERFLOW DRAIN)
CODP		ZN1400-BZ-BP-KC-VP	•				•	•				•			•									•						•	CLENOUT DECK PLATE (FINISH DECK)
COAG		Z1400-BZ-BP-KC-VP	•				•					•												•			•			•	CLEANOUT AT GRADE
COWP		ZS1468-VP	•				•					•			•																CLEANOUT WALL PLATE

NOTE: ALL DRAIN FINISHES BY ARCHITECT

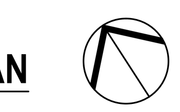
SPECIALTY EQUIPMENT

FIXTURE MANUFACTURER: WADE, ZURN, WOODFORD

DESIGNATION	REQUIRED	SERIES NO.	BODY: CAST IRON	GALVANIZED	ALL BRONZE	SECONDARY CLAMP	CLAMPING DEVICE	DECK CLAMP	BACK WATER VALVE	ROOF SUMP RECEIVER	STAINLESS STEEL	STRAINER: CAST IRON	GALVANIZED	ALL BRONZE	NIKEL BRONZE	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	BRONZE MESH SCREEN	FUNNEL TOP	FLAT TOP	DOME	RAISED LIP	EXTENSION	STAINLESS STEEL MASH	FUNNEL	VACUUM BREAKER	REMARKS: LOCATION
HB-1		ZURN Z1341XL													•															•	HOSE BIB
HB-2		ZURN Z1388XL-AC-VB														•														•	POST HYDRANT
HB-3		ZURN Z1322XL-EZ-WC													•															•	CONCEALED NON-FREEZE WALL HYDRANT
HB-4		ZURN Z1321-CXL													•															•	EXPOSED NON-FREEZE WALL HYDRANT
TRP-1		SIOUX CHIEF 695-ER10																													ELECTRONIC TRAP PRIMER FOR ALL FLOOR DRAINS



KEY PLAN



NOTES:

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Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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DWG TITLE:
PLUMBING
SCHEDULES SHEET #1

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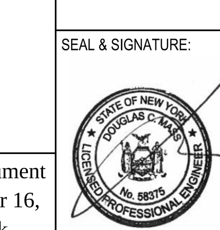

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
P-401.00
DWG NO.
OF

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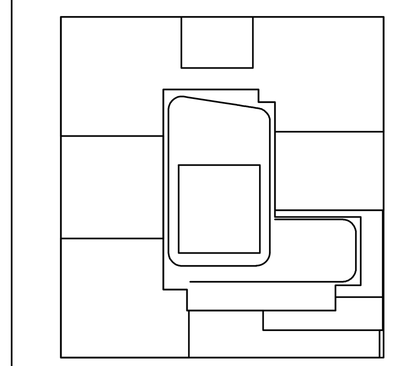
FILE NAME: ...150318_P-401.dwg SAVED ON 10/5/2017 4:11 PM PLOTTED ON 10/12/2017 11:59 AM PLOTTED BY ZILBERMAN, ALEX

PLUMBING FIXTURE SHCEDULE

TYPE	FIXTURE	MODEL NO. & SIZE	FLUSH VALVE	SEAT	TRIM	SUPPLIES & TAILPIECES (MCGUIRE)	FLOW CONT'L G.P.M./G.P.F.	TRAP & TRAP NIPPLE (MCGUIRE U.O.N.)	SUPPORTS: WALL MTD.	SUPPORTS: FLOOR MTD.	SUPPORTS: COUNTER	HAMMER ARRESTOR ON WATER SUPPLY	REMARKS
P-1	WATER CLOSET PRIVATE	TOTO ECO SUPREME ONE-PIECE TOILET ITEM # MS864114E / MS863113E	N/A	SEE ARCH. SCHEDULE	N/A	N/A	1.28GPF	N/A		•		•	SEE ARCH. COMMENTS
P-1A	WATER CLOSET WALL HUNG PUBLIC	TOTO WALL MOUNTED FLUSHOMETER TOILET ITEM # CT708EV	TET2LA31#SS	SC134#01	N/A	N/A	1.28GPF	N/A	•			•	ELONGATED W/ BATTERY OPERATED ELECTRONIC FLUSH VALVE. PROVIDE HAMMER ARRESTOR ON CW SUPPLY.
P-1B	WATER CLOSET WALL HUNG PUBLIC ADA ACCESSIBLE	TOTO WALL MOUNTED FLUSHOMETER TOILET ITEM # CT708EV	TET2LA31#SS	SC134#02	N/A	N/A	1.28GPF	N/A	•			•	ELONGATED W/ BATTERY OPERATED ELECTRONIC FLUSH VALVE. PROVIDE HAMMER ARRESTOR ON CW SUPPLY.
P-1C	WATER CLOSET WALL HUNG PUBLIC ADA ACCESSIBLE	SEE ARCH. SCHEDULE	TBD	TBD	N/A	N/A	1.28GPF	N/A	•			•	ELONGATED W/ BATTERY OPERATED ELECTRONIC FLUSH VALVE. PROVIDE HAMMER ARRESTOR ON CW SUPPLY.
P-2	URINAL WALL HUNG PUBLIC	KOHLER STEWARD WATERLESS URINAL ITEM # K-4917	N/A	N/A	N/A	N/A	0	N/A	•			•	
P-2A	URINAL WALL HUNG PUBLIC	SEE ARCH. SCHEDULE	N/A	N/A	N/A	N/A	TBD	N/A	•			•	
P-3	LAVATORY PRIVATE	KOHLER RECTANGULAR UNDER-MOUNT SINK ITEM # K-2882-0	N/A	N/A	KOHLER PURIST BATHROOM FAUCET ITEM # K-14410-4-BV	SS SUPPLY WITH STOP Z8893CR-8873-12-PC	1.5GPM	8090CNC CAST BRASS GROUND JOINT SWIVEL P-TRAP 11/2"x2" IPS W/O CLEANOUT PLUG. 3127 HEAVY BRASS NIPPLE WITH HEAVY BRASS SET SCREW FLANGE 11/2"x6"			•		
P-3A	LAVATORY PUBLIC	KOHLER VERTICYL UNDER-MOUNT SINK ITEM # K-2882	N/A	N/A	KOHLER PURIST WALL-MOUNT FAUCET ITEM # K-T14415-4	SS SUPPLY WITH STOP Z8893CR-8873-12-PC	1.2GPM	8090CNC CAST BRASS GROUND JOINT SWIVEL P-TRAP 11/2"x2" IPS W/O CLEANOUT PLUG. 3127 HEAVY BRASS NIPPLE WITH HEAVY BRASS SET SCREW FLANGE 11/2"x6"	•		•		
P-3B	LAVATORY PUBLIC	SEE ARCH. SCHEDULE	N/A	N/A	TBD	SS SUPPLY WITH STOP Z8893CR-8873-12-PC	TBD	8090CNC CAST BRASS GROUND JOINT SWIVEL P-TRAP 11/2"x2" IPS W/O CLEANOUT PLUG. 3127 HEAVY BRASS NIPPLE WITH HEAVY BRASS SET SCREW FLANGE 11/2"x6"	•		•		
P-4A	WASHER & DRYER GAS	WASHER: FRIGIDAIRE 27" FRONT LOAD WASHER ITEM # FFWG5000QW DRYER: FRIGIDAIRE 27" FRONT LOAD DRYER ITEM # FFQG5000QW	N/A	N/A	N/A	WASHER: SIOUX CHIEF OXBOX ITEM # 696-2303WF DRYER: SIOUX CHIEF OXBOX ITEM # 696-1030GF	N/A	P-TRAP		•		•	W/ DRIP PAN, LEAK DETECTOR AND AUTO-SHUT OFF VALVE SYSTEM. PROVIDE HAMMER ARRESTORS ON CW & HW SUPPLIES.
P-4B	WASHER & DRYER ELECTRIC	WASHER: BOSCH 24" WASHING MACHINE ITEM # WAT28401UC DRYER: BOSCH 24" DRYER ITEM # WTG86401UC	N/A	N/A	N/A	WASHER: SIOUX CHIEF OXBOX ITEM # 696-2303WF	n/a	P-TRAP		•		•	W/ DRIP PAN, LEAK DETECTOR AND AUTO-SHUT OFF VALVE SYSTEM. PROVIDE HAMMER ARRESTORS ON CW & HW SUPPLIES.
P-5	KITCHEN SINK	KOHLER UNDER-MOUNT SINGLE BOWL SINK ITEM # K-5286 SINK STRAINER: ITEM # K-8801	N/A	N/A	KOHLER PURIST PULL-OUT FAUCET ITEM # K-7505	SS SUPPLY WITH STOP Z8893CR-8873-12-PC	2.2GPM	8090CNC CAST BRASS GROUND JOINT SWIVEL P-TRAP 11/2"x2" IPS W/O CLEANOUT PLUG. 3127 HEAVY BRASS NIPPLE WITH HEAVY BRASS SET SCREW FLANGE 11/2"x6"			•		SINK TAILPIECE SHALL BE PROVIDED WITH CONNECTION FOR DISHWASHER(S). HOT WATER SUPPLY FOR SINK SHALL BE PROVIDED WITH A BRANCH TAP(S) AND A STOP(S) FOR DISHWASHER CONNECTION(S).
P-5A	KITCHEN SINK	KOHLER VAULT UNDER-MOUNT SINK ITEM # K-3894-4	N/A	N/A	KOHLER PURIST PULL-OUT FAUCET ITEM # K-7506	SS SUPPLY WITH STOP Z8893CR-8873-12-PC	2.2GPM	8090CNC CAST BRASS GROUND JOINT SWIVEL P-TRAP 11/2"x2" IPS W/O CLEANOUT PLUG. 3127 HEAVY BRASS NIPPLE WITH HEAVY BRASS SET SCREW FLANGE 11/2"x6"			•		SINK TAILPIECE SHALL BE PROVIDED WITH CONNECTION FOR DISHWASHER(S). HOT WATER SUPPLY FOR SINK SHALL BE PROVIDED WITH A BRANCH TAP(S) AND A STOP(S) FOR DISHWASHER CONNECTION(S).
P-5B	SINK	SEE ARCH. SCHEDULE	N/A	N/A	SEE ARCH. SCHEDULE	SS SUPPLY WITH STOP Z8893CR-8873-12-PC	2.2GPM	TBD			•		
P-5C	LAUNDRY SINK	SEE ARCH. SCHEDULE	N/A	N/A	SEE ARCH. SCHEDULE	TBD	2.2GPM	TBD					
P-6	DISHWASHER	BOSCH 24" DISHWASHER	N/A	N/A	N/A	TBD	N/A	DISHWASHER DRAIN SHALL CONNECT TO KITCHEN SINK TAILPIECE.				•	PROVIDE HAMMER ARRESTORS ON SUPPLIES.
P-7	MOP RECEPTOR	SEE ARCH. SCHEDULE	N/A	N/A	SEE ARCH. SCHEDULE	TBD	N/A	TBD		•			
P-8	SHOWER PRIVATE	KOHLER PURIST SHOWERHEAD & SHOWERARM ITEM # K-939-BV & K-933-BV KOHLER ELLIPSE HANDSHOWER ITEM # K-10257	N/A	N/A	KOHLER STACKED VALVE TRIM ITEM # K-T14489-4 KOHLER TRANSFER VALVE TRIM ITEM # K-T14491-4	TBD	2.0GPM	N/A	•				SHOWER MIXING VALVE SHALL HAVE ASSE 1016 LISTING.
P-8A	SHOWER PUBLIC	KOHLER SHOWER ARM ITEM # K-10124	N/A	N/A	SEE ARCH. SCHEDULE	TBD		N/A	•				SHOWER MIXING VALVE SHALL HAVE ASSE 1016 LISTING.
P-8B	SHOWER PUBLIC ADA	KOHLER SHOWER ARM ITEM # K-45210	N/A	N/A	SEE ARCH. SCHEDULE	TBD		N/A	•				SHOWER MIXING VALVE SHALL HAVE ASSE 1016 LISTING.
P-9	BATHTUB	KOHLER PURIST SHOWERHEAD & SHOWERARM ITEM # K-939-BV & K-933-BV KOHLER ELLIPSE HANDSHOWER ITEM # K-1025 KOHLER WALL-MTD BATH SPOUT ITEM # K-14427-BV	N/A	N/A	KOHLER STACKED VALVE TRIM ITEM # K-T14489-4 KOHLER TRANSFER VALVE TRIM ITEM # K-T14491-5	TBD	2.0GPM	N/A	•				SHOWER MIXING VALVE SHALL HAVE ASSE 1016 LISTING.
P-10	RANGE	BOSCH 30" RANGE ITEM # HGI8054UC	N/A	N/A	N/A	DRYER: SIOUX CHIEF OXBOX ITEM # 696-1030GF	N/A	N/A		•			SHALL BE PROVIDED WITH RECESSED OX BOX MODEL 696-1030GF AND BRASSCRAFT GAS CONNECTOR WITH EXCESS FLOW VALVE.
P-11	WATER FOUNTAIN	SEE ARCH. SCHEDULE	N/A	N/A	N/A	TBD	N/A	N/A	•				
P-12	PET WASHING SINK	FLYING PIG GROOMING ITEM # FP701	N/A	N/A	SEE ARCH. SCHEDULE	TBD	N/A	N/A	•				

1. ARCHITECTURAL SPECIFICATIONS SHALL SUPERCEDE ALL FIXTURE AND TRIM SELECTIONS NOTED IN THE SCHEDULE ABOVE.
2. FINAL FIXTURE SELECTIONS MUST COMPLY WITH THE FLOW AND REMARKS RESTRICTIONS NOTED IN THE SCHEDULE ABOVE



KEY PLAN

NOTES:

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	02/05/2016	DOB FILING SET

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DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
SCHEDULES SHEET #2

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
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OF

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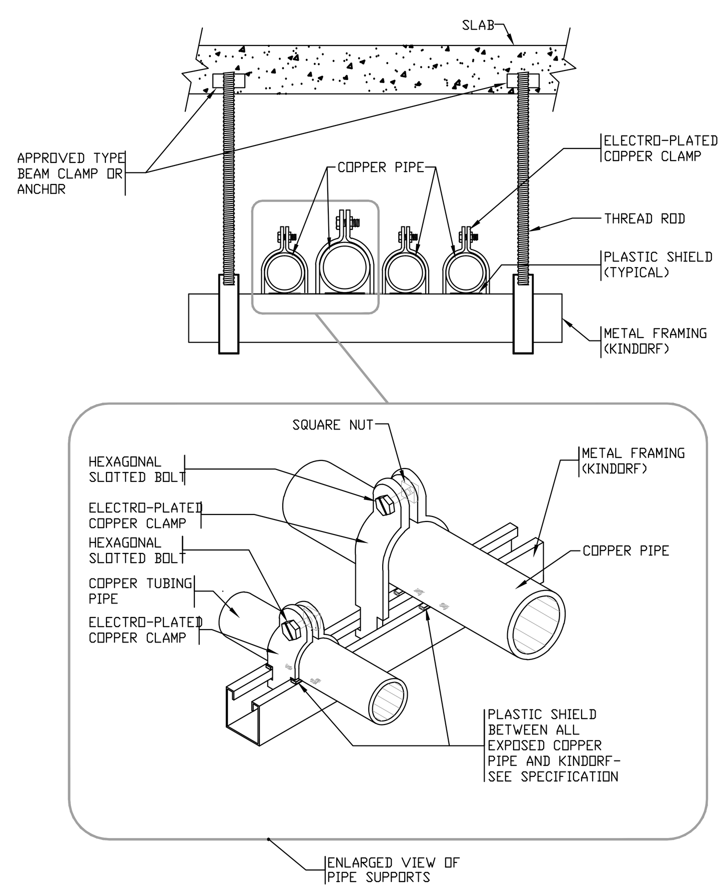

TYPICAL SUPPORT DETAIL
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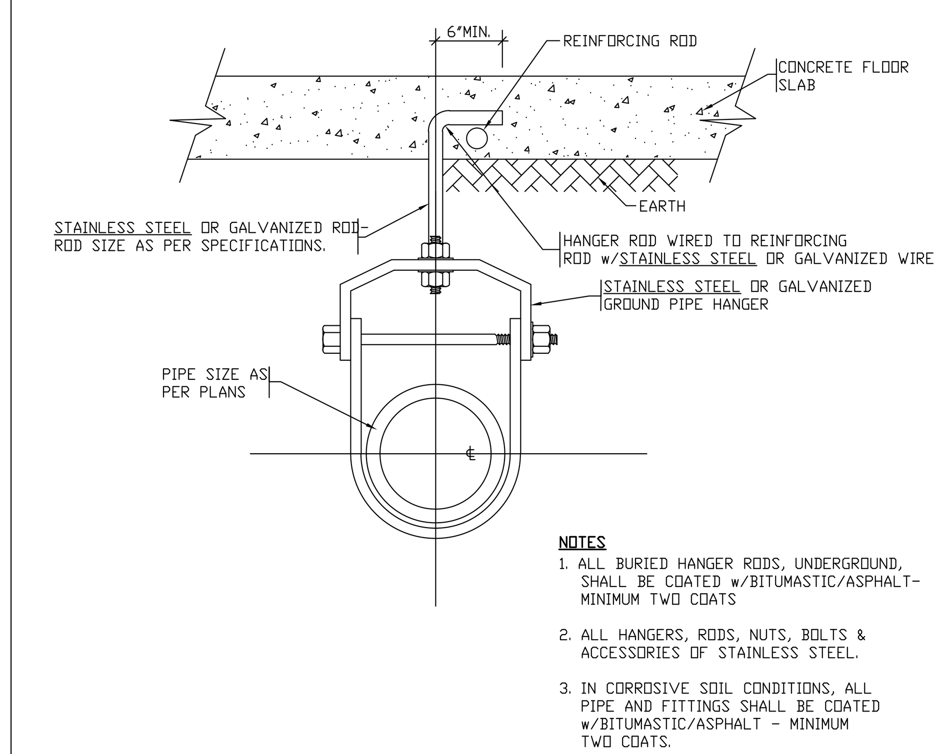
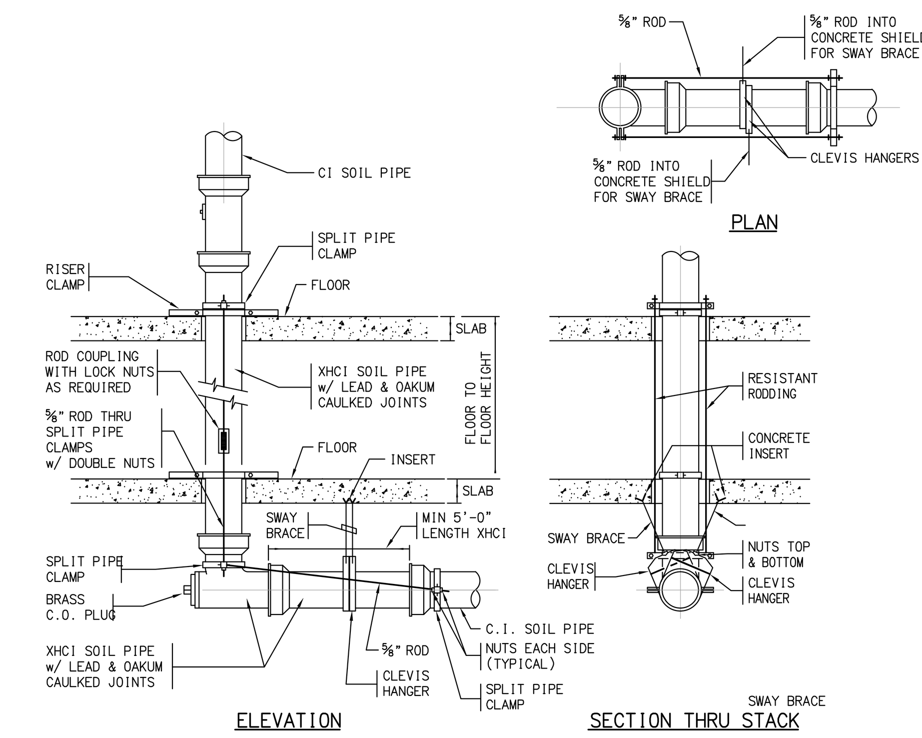


NOTES
1. ALL BURIED HANGER RODS, UNDERGROUND, SHALL BE COATED w/BITUMASTIC/ASPHALT- MINIMUM TWO COATS
2. ALL HANGERS, RODS, NUTS, BOLTS & ACCESSORIES OF STAINLESS STEEL.
3. IN CORROSIVE SOIL CONDITIONS, ALL PIPE AND FITTINGS SHALL BE COATED w/BITUMASTIC/ASPHALT - MINIMUM TWO COATS.

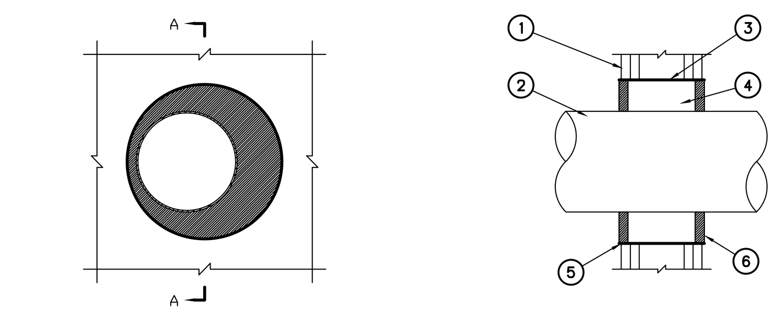
PIPE SUPPORT FOR UNDERGROUND DRAINAGE PIPING
NOT TO SCALE



DETAIL OF PIPING AT BASE OF STACKS
BASE OF LEADERS SIMILAR
NO SCALE

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

UL SYSTEM No.WL1056

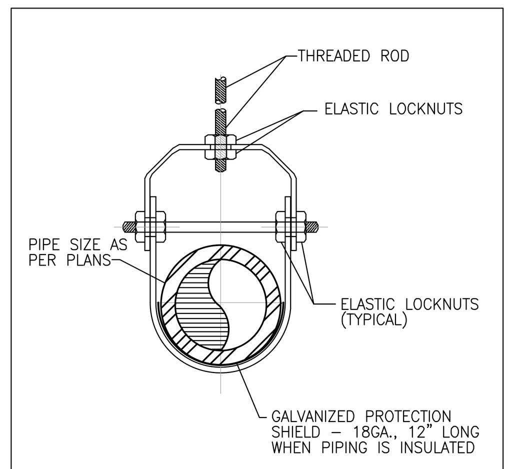


1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPING
   C. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
3. MINIMUM 24 GAUGE SHEET METAL SLEEVE EXTENDING 1/2" PAST EACH SURFACE OF WALL.
4. MINIMUM 4-1/2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) THIGHTLY PACKED.
5. A GENEROUS BEAD OF HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT AROUND PERIMETER OF SLEEVE.
6. MINIMUM 3/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

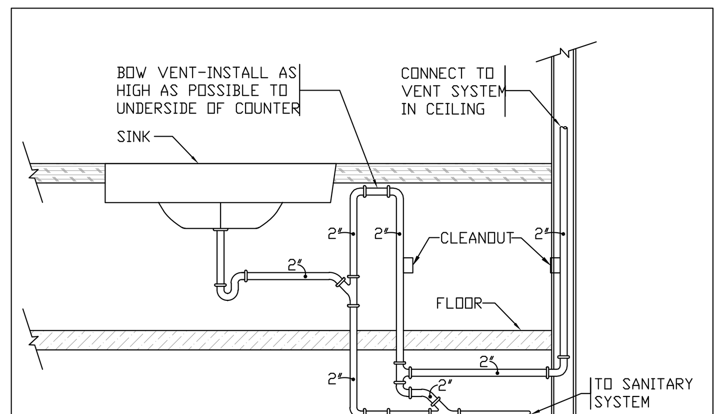
NOTE: 1. MAXIMUM DIAMETER OF OPENING = 18-3/4"
2. ANNULAR SPACE = MINIMUM 3/4", MAXIMUM 4-1/2"
3. OPENING SHALL BE 1-1/2" TO 6" LARGER THAN OUTSIDE DIAMETER OF PIPE.

FIRESTOPPING OF METAL PIPE THROUGH 1-HR OR 2-HR RATED GYPSUM WALL.
NTS

NOTE:
DETAIL IS BASED ON HILTI UL SYSTEM No. WL1056
OTHER MANUFACTURER WILL BE ACCEPTED.
REFER TO SPECIFICATIONS



CLEVIS HANGER
NO SCALE



DETAIL OF BOW VENT
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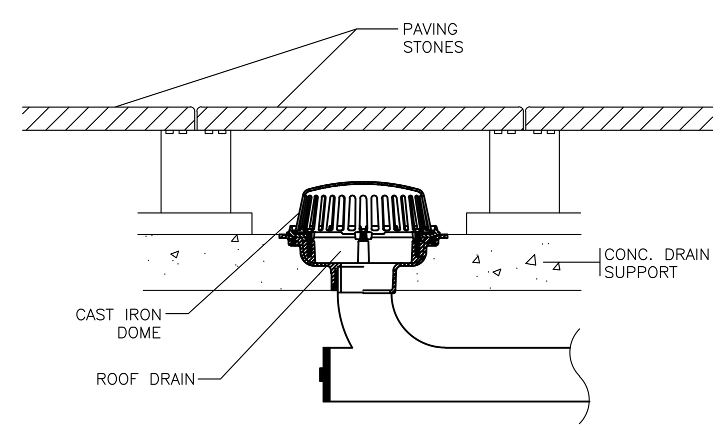

DRAIN BELOW PAVERS DETAIL
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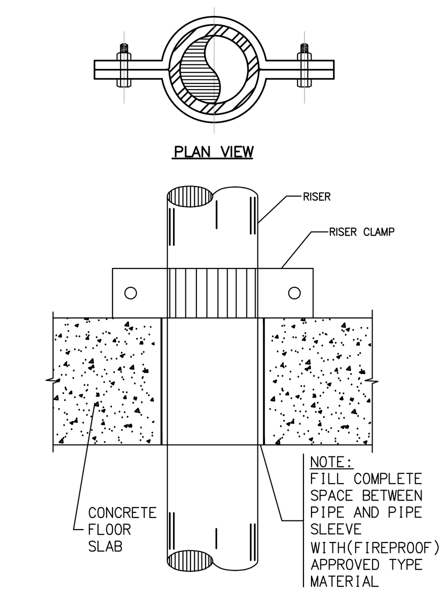

TYPICAL RISER ANCHOR DETAIL
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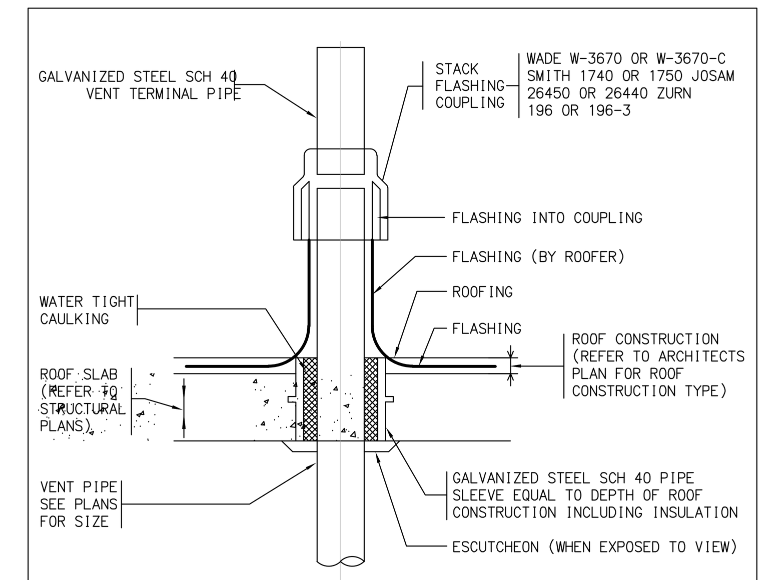
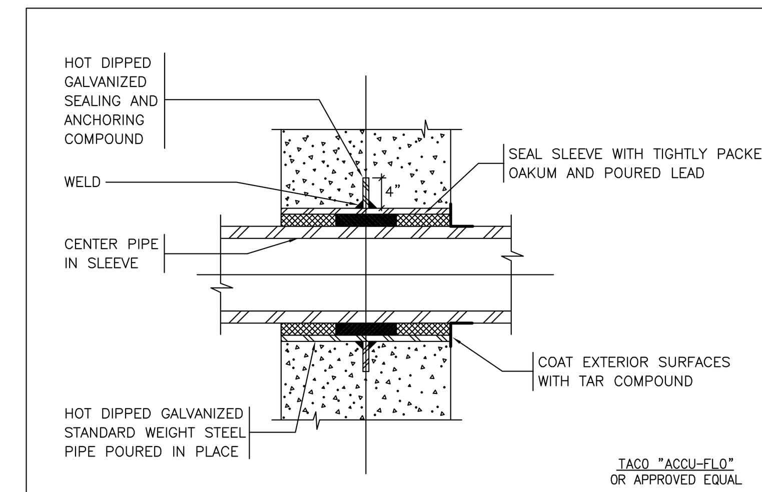
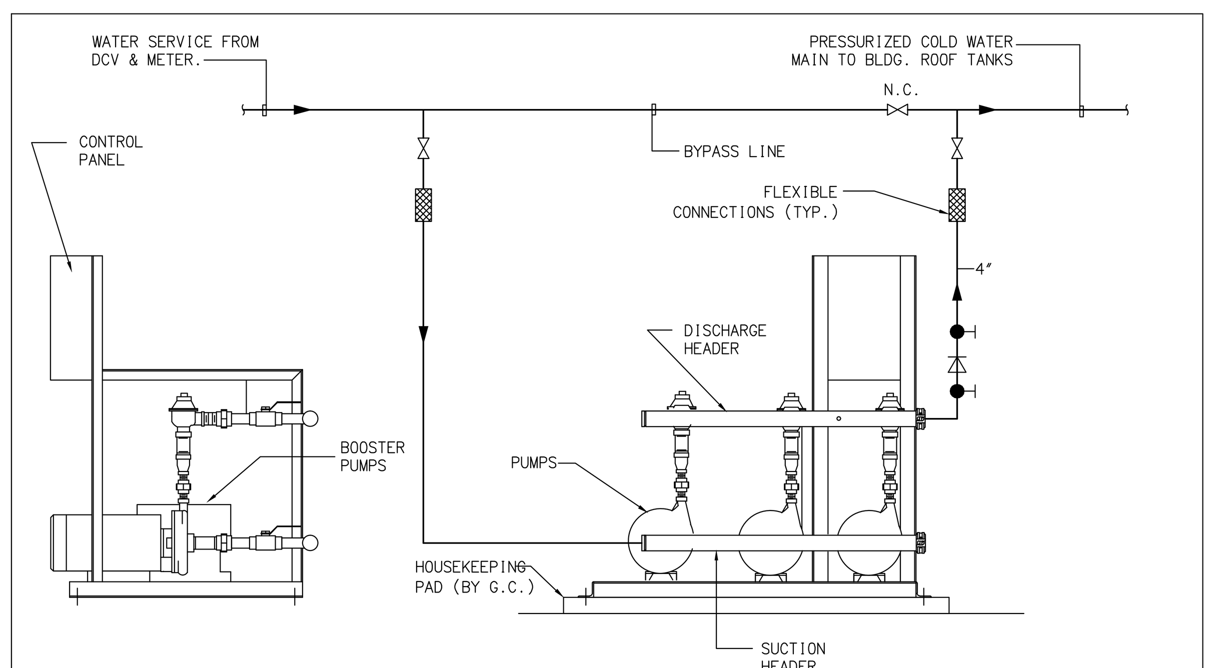


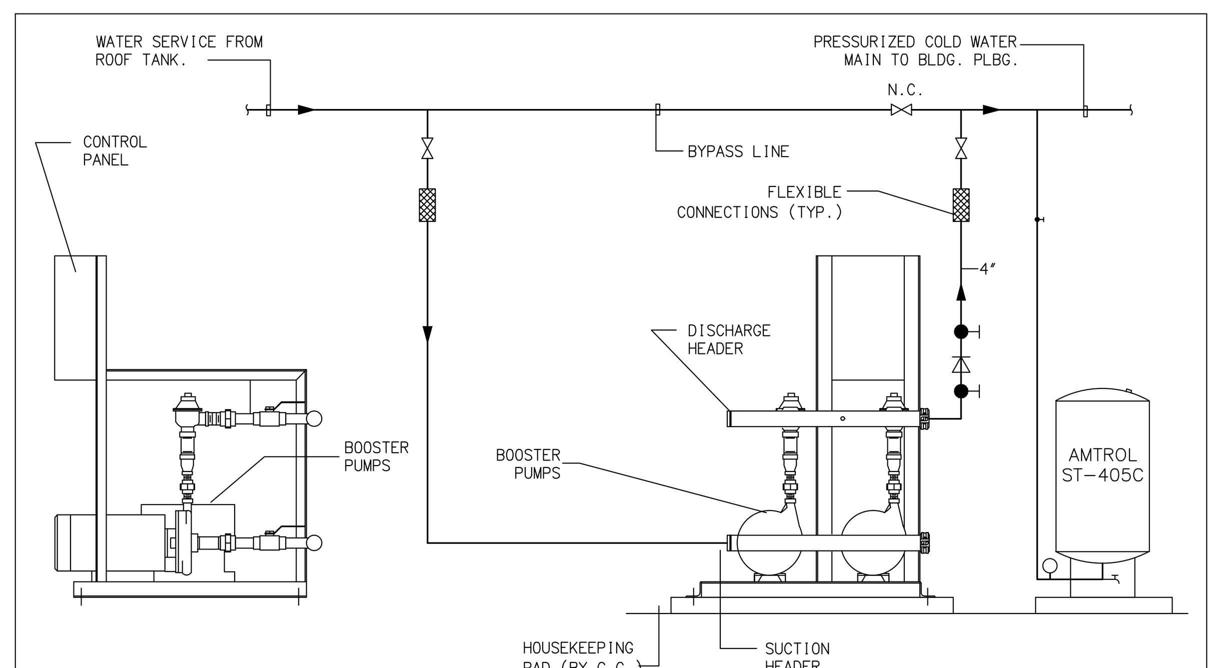
VENT THRU ROOF – FLASHING
NO SCALE



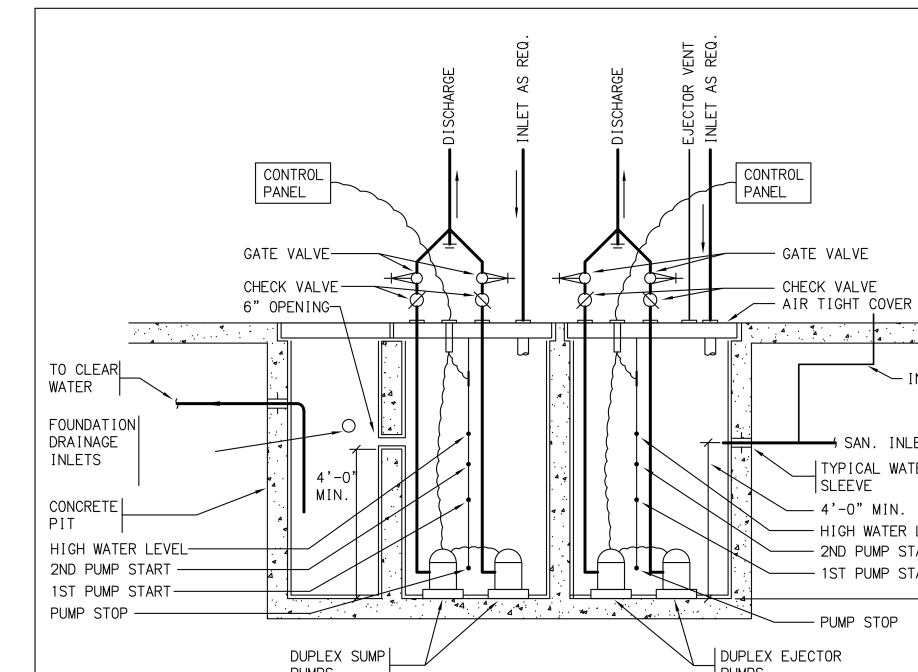
WATERTIGHT SLEEVES (WT SLV)
THRU CONCRETE FOUNDATION WALLS
NO SCALE



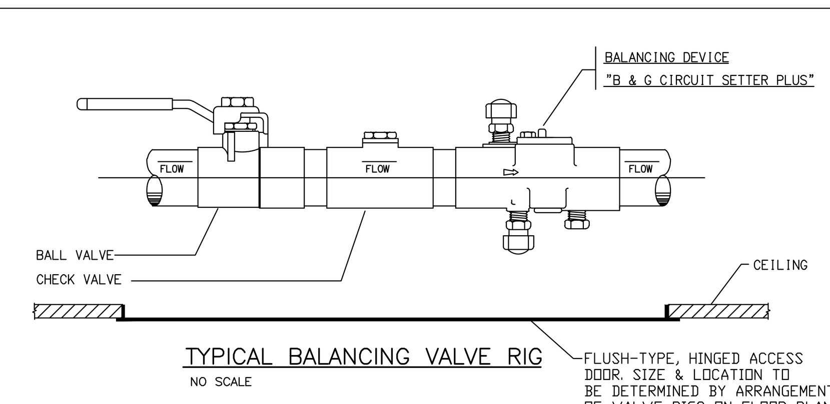
SCHEMATIC DETAIL
CONSTANT PRESSURE TRIPLEX TANK FILL PUMPS
NOT TO SCALE



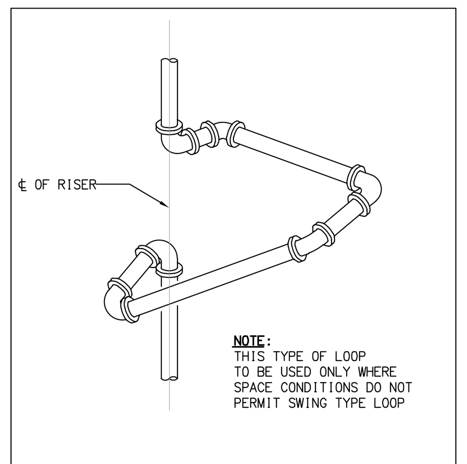
SCHEMATIC DETAIL
CONSTANT PRESSURE DUPLEX BOOSTER PUMPS
NOT TO SCALE



SUMP & EJECTOR PUMP DETAILS
NTS

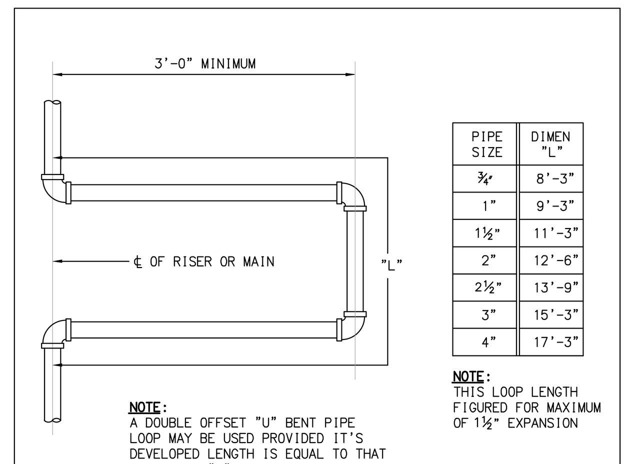


TYPICAL BALANCING VALVE RIG
NO SCALE



NOTE:
THIS TYPE OF LOOP TO BE USED ONLY WHERE SPACE CONDITIONS DO NOT PERMIT SWING TYPE LOOP

SIX ELBOW SWING EXPANSION LOOP
NO SCALE

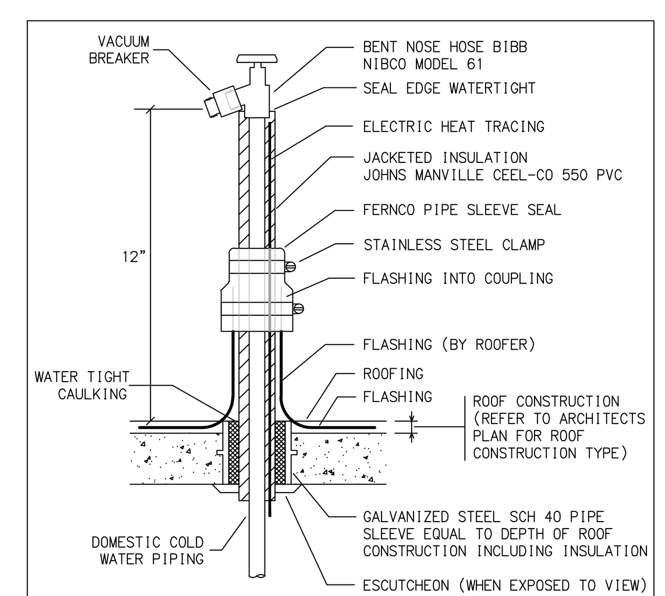


PIPE SIZE	DIMEN "L"
¾"	8'-3"
1"	9'-3"
1½"	11'-3"
2"	12'-6"
2½"	13'-9"
3"	15'-3"
4"	17'-3"

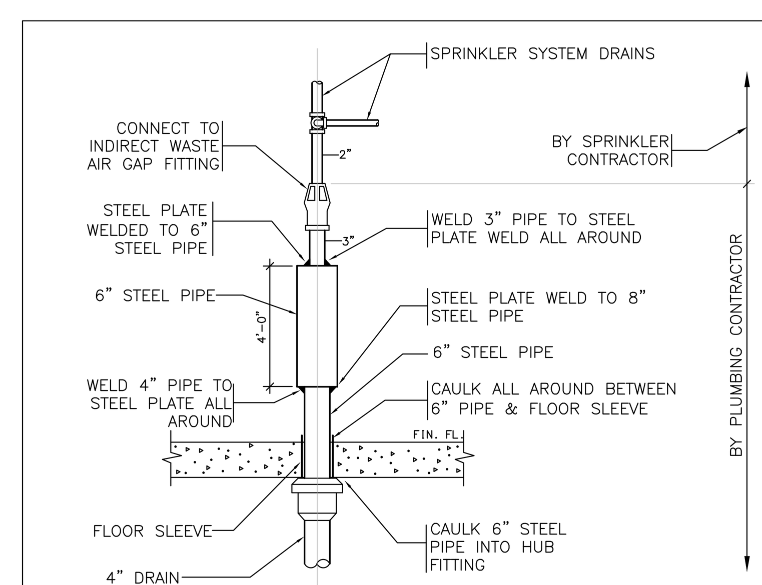
NOTE:
A DOUBLE OFFSET "U" BENT PIPE LOOP MAY BE USED PROVIDED IT'S DEVELOPED LENGTH IS EQUAL TO THAT GIVEN FOR "L"

NOTE:
THIS LOOP LENGTH FIGURED FOR MAXIMUM OF 1½" EXPANSION

FOUR ELBOW SWING EXPANSION LOOP
NO SCALE



HOSE BIBB ON ROOF
NO SCALE



TYPICAL SPRINKLER FUNNEL DRAIN
NO SCALE

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

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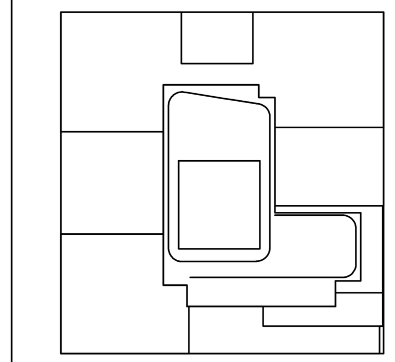

KEY PLAN

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	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

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(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
DETAIL SHEET #1

SEAL & SIGNATURE:

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
P-501.00
DWG NO.
OF

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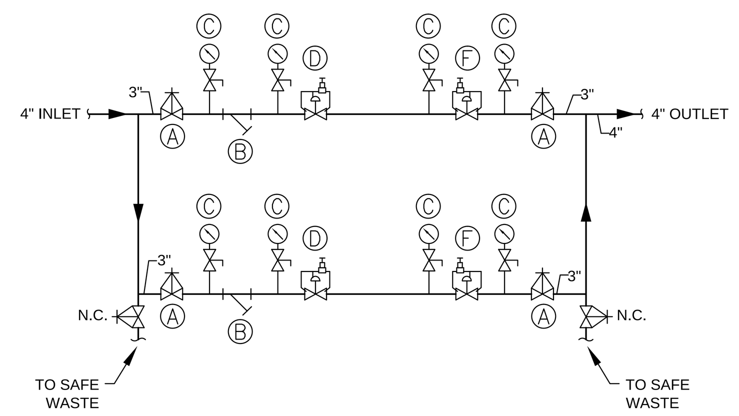
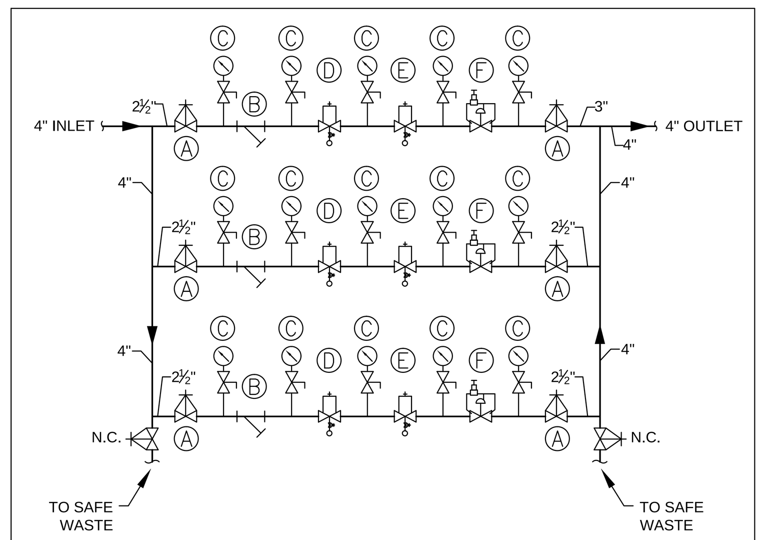


LEGEND

- (A) ISOLATION VALVE, STAINLESS STEEL BODY, FULL PORT.
- (B) Y STRAINER, 150 FLANGED STAINLESS STEEL BODY, PERFORATED STAINLESS STEEL STRAINER.
- (C) PRESSURE GAUGE WITH ISOLATION VALVE, 4" STAINLESS STEEL GLYCERIN FILL, 0-200 PSI.
- (D) PRESSURE REDUCING VALVE, CLA-VAL 90G-01ASKHXHCSI, 150 LB FLANGED BS LF, 30-300 PSI RANGE.
- (F) XPSV EXCESS PRESSURE SAFETY VALVE, CLA-VAL 50G-33KXHCSI 150 LB FLANGED BB LF, 20-200 PSI RANGE. PROVIDE WITH PRESSURE SWITCH AND WIRE IT TO BMS SYSTEM.

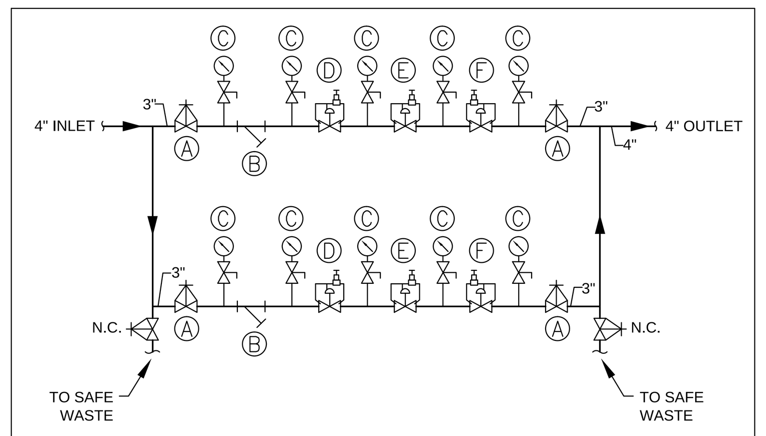
PRV ZONE	PRV RIG LOCATION	PRV SIZE	INLET PRESSURE	PRV 'D' SETPOINT	XPSV SETPOINT	PRV RIG CAPACITY
ZONE 4	36TH FL.	3.0"	154 PSI	85 PSI	100 PSI	200 GPM
ZONE 5	36TH FL.	3.0"	154 PSI	130 PSI	145 PSI	200 GPM



LEGEND

- (A) ISOLATION VALVE, STAINLESS STEEL BODY, FULL PORT.
- (B) Y STRAINER, 800 # FNPT SCREWED, STAINLESS STEEL BODY, PERFORATED STAINLESS STEEL STRAINER.
- (C) PRESSURE GAUGE WITH ISOLATION VALVE, 4" STAINLESS STEEL GLYCERIN FILL, 0-200 PSI.
- (D)(E) PRESSURE REDUCING VALVE, JRG 1318KXHCSI, 300 LB FNPT SCREWED, BB LF 28-80 PSI.
- (F) XPSV EXCESS PRESSURE SAFETY VALVE, CLA-VAL 50G-33KXHCSI 300 LB FNPT SCREWED, BB LF 20-200 PSI RANGE. PROVIDE WITH PRESSURE SWITCH AND WIRE IT TO BMS SYSTEM.

PRV ZONE	PRV RIG LOCATION	PRV SIZE	INLET PRESSURE	PRV 'D' SETPOINT	PRV 'E' SETPOINT	XPSV SETPOINT	PRV RIG CAPACITY
ZONE 3	36TH FL.	2.5"	154 PSI	70 PSI	30 PSI	77 PSI	240 GPM



LEGEND

- (A) ISOLATION VALVE, STAINLESS STEEL BODY, FULL PORT.
- (B) Y STRAINER, 300 FLANGED STAINLESS STEEL BODY, PERFORATED STAINLESS STEEL STRAINER.
- (C) PRESSURE GAUGE WITH ISOLATION VALVE, 4" STAINLESS STEEL GLYCERIN FILL, 0-200 PSI.
- (D)(E) PRESSURE REDUCING VALVE, CLA-VAL 90G-01ASKHXHCSI, 300 LB FLANGED BS LF, 30-300 PSI RANGE.
- (F) XPSV EXCESS PRESSURE SAFETY VALVE, CLA-VAL 50G-33KXHCSI 300 LB FLANGED BB LF, 20-200 PSI RANGE. PROVIDE WITH PRESSURE SWITCH AND WIRE IT TO BMS SYSTEM.

PRV ZONE	PRV RIG LOCATION	PRV SIZE	INLET PRESSURE	PRV 'D' SETPOINT	PRV 'E' SETPOINT	XPSV SETPOINT	PRV RIG CAPACITY
ZONE 1	3RD FL.	3.0"	309 PSI	140 PSI	62 PSI	77 PSI	200 GPM
ZONE 2	3RD FL.	3.0"	309 PSI	180 PSI	120 PSI	135 PSI	200 GPM

MAIN PRV STATION DETAILS & SPECIFICATIONS

NOT TO SCALE

NOTES

1 - REFER TO PLANS RISERS AND SPECIFICAIONS FOR ADDITIONAL INFORMATION.

2 - COORDINATE WITH HEATER MANUFACTURER FOR EQUIPMENT SUPPLIED WITH HEATERS.

3 - LOCATE ALL PIPING FITTINGS, UNIONS, VALVES, ETC.(INCLUDING) ELEC. CONDUITS) TO ALLOW REMOVAL OF HEATER PANELS PANELS & COVERS.

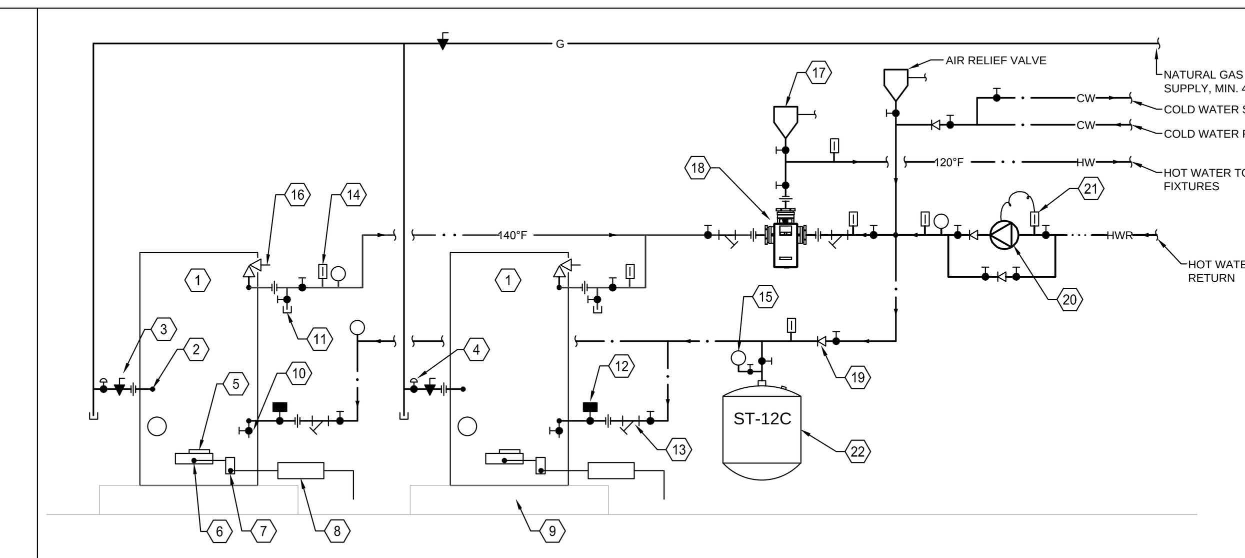
4 - ALL PIPING SHALL BE ARRANGED TO ALLOW MAXIMUM ACCESS TO EQUIPMENT AND ALLOW EASY REMOVAL OF EQUIPMENT.

5 - REFER TO HEATER MANUFACTURER DATA FOR FINAL CONNECTION LOCATIONS.

6 - ALL CONTROL VALVES ARE NORMALLY OPEN EXCEPT WHERE NOTED N.C.(NORMALLY CLOSED).

7 -PROVIDE EACH HEATER & BUILDING CIRCULATOR WITH CENTRALIZED CONTROLS TO TURN EQUIPMENT OFF DURING UNOCCUPIED HOURS. COORDINATE WITH THE BUILDING SYSTEMS CONTROLS CONTRACTOR.

8 -PROVIDE EACH HEATER WITH A HIGH TEMPERATURE ALARM. ALARM SHALL HAVE PROVISIONS FOR REMOTE ANNUNCIATION.



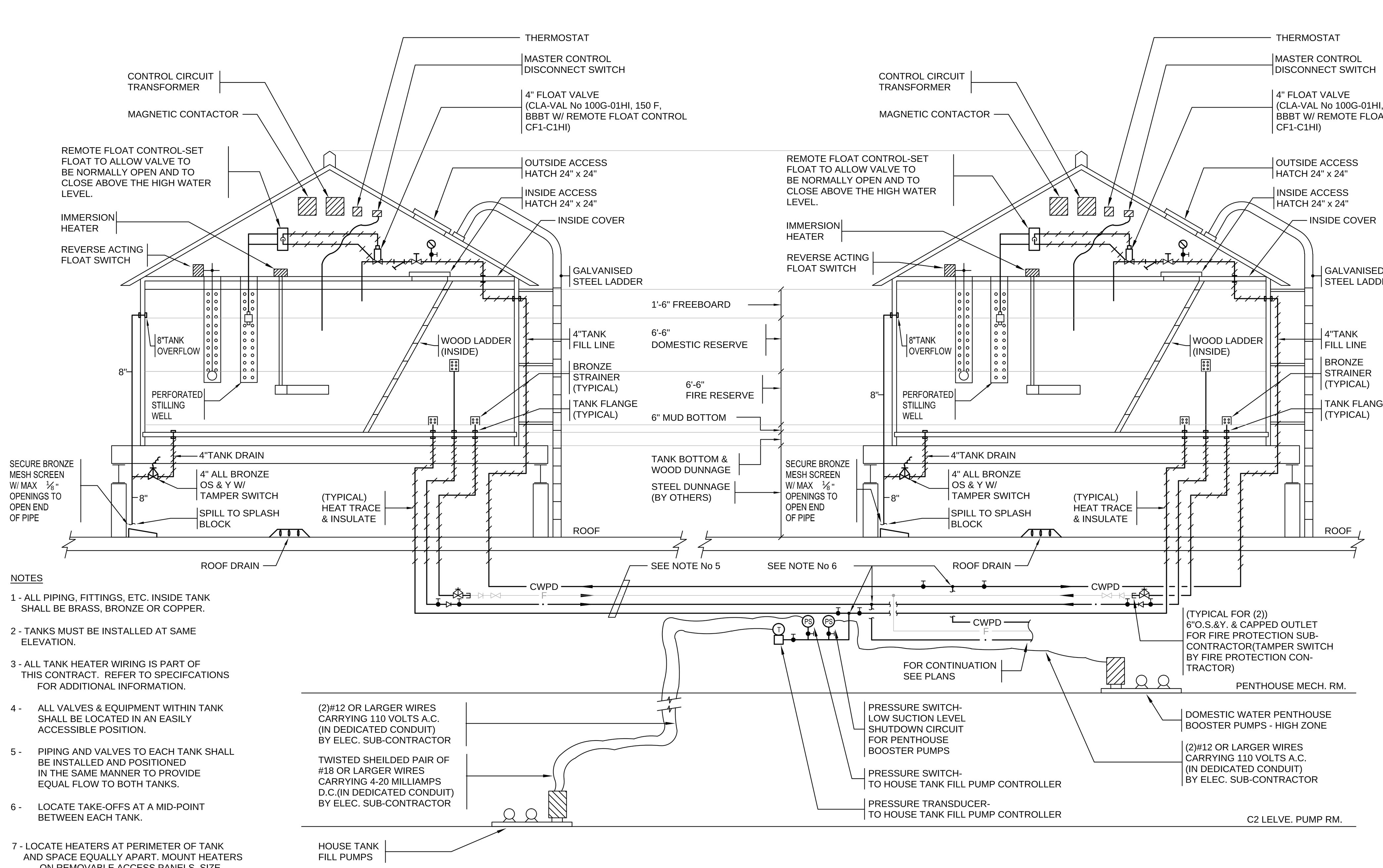
EQUIPMENT KEY

1. GAS FIRED WATER HEATER AERCO INNOVATION INN600SV
2. GAS CONNECTION TO WATER HEATER
3. LUBRICATE PLUG TYPE VALVE (TYPICAL)
4. IF SUPPLY GAS PRESSURE EXCEEDS 14" W.C., PROVIDE EXTERNAL GAS PRESSURE REGULATOR UL LISTED, VENTLESS. (TYPICAL)
5. FLUE CONNECTION (BY OTHERS)
6. CONDENSATE DRAIN CONNECTION
7. CONDENSATE DRAIN TRAP
8. CONDENSATE NEUTRALIZER KIT. DISCHARGE PIPING FROM NEUTRALIZER SHALL BE ROUTED TO FLOOR DRAIN.
9. 4" HOUSEKEEPING CONCRETE PAD
10. SHELL DRAIN VALVE
11. HOSE CONNECTION FOR INITIAL HEATER CALIBRATION.
12. MOTORIZED/SEQUENCING VALVE WIRED INTO EACH UNIT'S I/O BOX TERMINAL "AOUT".
13. STRAINER (TYPICAL)
14. THERMOMETER W/ STOP COCK (TYP.)
15. PRESSURE GUAGE W/ STOP COCK (TYP.)
16. TEMPERATURE AND PRESSURE RELIEF VALVE PIPED TO FLOOR DRAIN.
17. AIR RELIEF VALVE, SPILL TO FLOOR DRAIN. TYPICAL AT ALL HIGH POINTS
18. DIGITAL MIXING VALVE - ARMSTRONG 'THE BRAIN' MODEL NO. DRV50. PROVIDE 100-240 VAC. PROVIDE 'BRAINSCAN' ACCESSORIES FOR MIXING VALVE INTERFACE WITH BMS.
19. CHECK VALVE (TYPICAL)
20. CIRCULATION PUMP RATED FOR MINIMUM 10 GPM @ 10 PSI (OR AS REQUIRED PER FRICTION LOSSES THROUGH PIPING SYSTEM). NOTE THAT CIRC. PUMP MUST PROVIDE 10 GPM FLOW FOR PROPER MIXING VALVE OPERATION.
21. AQUASTAT - INCREASE BY ONE PIPE SIZE FOR SENSING BULB
22. THERMAL EXPANSION TANK AMTROL ST-12-C

SCHEMATIC DIAGRAM OF GAS FIRED DOMESTIC WATER HEATERS

NOT TO SCALE

TYPICAL FOR DWH-6



NOTES

1 - ALL PIPING, FITTINGS, ETC. INSIDE TANK SHALL BE BRASS, BRONZE OR COPPER.

2 - TANKS MUST BE INSTALLED AT SAME ELEVATION.

3 - ALL TANK HEATER WIRING IS PART OF THIS CONTRACT. REFER TO SPECIFCATIONS FOR ADDITIONAL INFORMATION.

4 - ALL VALVES & EQUIPMENT WITHIN TANK SHALL BE LOCATED IN AN EASILY ACCESSIBLE POSITION.

5 - PIPING AND VALVES TO EACH TANK SHALL BE INSTALLED AND POSITIONED IN THE SAME MANNER TO PROVIDE EQUAL FLOW TO BOTH TANKS.

6 - LOCATE TAKE-OFFS AT A MID-POINT BETWEEN EACH TANK.

7 - LOCATE HEATERS AT PERIMETER OF TANK AND SPACE EQUALLY APART. MOUNT HEATERS ON REMOVABLE ACCESS PANELS. SIZE OF ACCESS PANELS SHALL ALLOW REMOVAL OF HEATERS.

8 - LOCATE TEMPERATURE PROBE IN CENTER OF TANK.

9 - REFER TO PLANS FOR LOCATIONS OF PIPE CONNECTIONS TO TANK.

SCHEMATIC DIAGRAM OF THE COMBINATION DOMESTIC/FIRE RESERVE HOUSE TANKS

NOT TO SCALE

NOTES

1 - REFER TO PLANS RISERS AND SPECIFICAIONS FOR ADDITIONAL INFORMATION.

2 - COORDINATE WITH HEATER MANUFACTURER FOR EQUIPMENT SUPPLIED WITH HEATERS.

3 - LOCATE ALL PIPING FITTINGS, UNIONS, VALVES, ETC.(INCLUDING) ELEC. CONDUITS) TO ALLOW REMOVAL OF HEATER PANELS PANELS & COVERS.

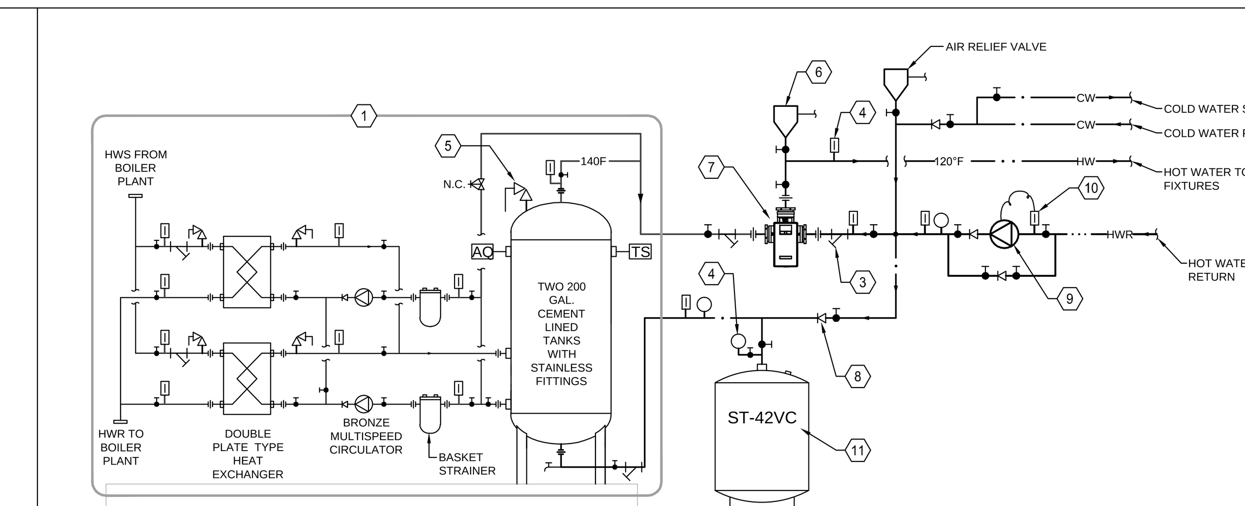
4 - ALL PIPING SHALL BE ARRANGED TO ALLOW MAXIMUM ACCESS TO EQUIPMENT AND ALLOW EASY REMOVAL OF EQUIPMENT.

5 - REFER TO HEATER MANUFACTURER DATA FOR FINAL CONNECTION LOCATIONS.

6 - ALL CONTROL VALVES ARE NORMALLY OPEN EXCEPT WHERE NOTED N.C.(NORMALLY CLOSED).

7 -PROVIDE EACH HEATER & BUILDING CIRCULATOR WITH CENTRALIZED CONTROLS TO TURN EQUIPMENT OFF DURING UNOCCUPIED HOURS. COORDINATE WITH THE BUILDING SYSTEMS CONTROLS CONTRACTOR.

8 -PROVIDE EACH HEATER WITH A HIGH TEMPERATURE ALARM. ALARM SHALL HAVE PROVISIONS FOR REMOTE ANNUNCIATION.



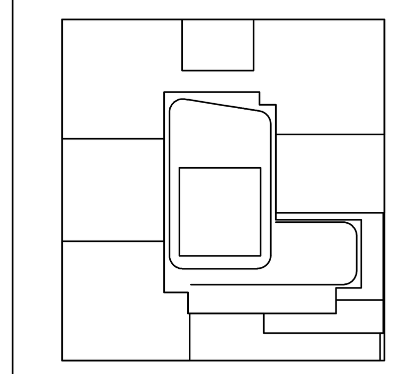
EQUIPMENT KEY

1. PACKAGED INDIRECT WATER HEATER BY AERCO/FPS MODEL NO. DHWG-V WITH DOUBLE WALL PLATE HEAT EXCHANGERS.
2. 4" HOUSEKEEPING CONCRETE PAD
3. STRAINER (TYPICAL)
4. THERMOMETER W/ STOP COCK (TYP.)
4. PRESSURE GUAGE W/ STOP COCK (TYP.)
5. TEMPERATURE AND PRESSURE RELIEF VALVE PIPED TO FLOOR DRAIN.
6. AIR RELIEF VALVE, SPILL TO FLOOR DRAIN. TYPICAL AT ALL HIGH POINTS
7. DIGITAL MIXING VALVE - ARMSTRONG 'THE BRAIN' MODEL NO. DRV80. PROVIDE 100-240 VAC. PROVIDE 'BRAINSCAN' ACCESSORIES FOR MIXING VALVE INTERFACE WITH BMS.
8. CHECK VALVE (TYPICAL)
9. CIRCULATION PUMP RATED FOR MINIMUM 10 GPM @ 10 PSI (OR AS REQUIRED PER FRICTION LOSSES THROUGH PIPING SYSTEM). NOTE THAT CIRC. PUMP MUST PROVIDE 10 GPM FLOW FOR PROPER MIXING VALVE OPERATION.
10. AQUASTAT - INCREASE BY ONE PIPE SIZE FOR SENSING BULB
11. THERMAL EXPANSION TANK AMTROL ST-42-VC

SCHEMATIC DIAGRAM OF INDIRECT DOMESTIC WATER HEATERS WITH STORAGE TANKS

NOT TO SCALE

TYPICAL FOR DWH-1 TO 5



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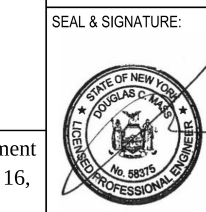
DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
DETAIL SHEET #2

SEAL & SIGNATURE:



DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
P-502.00
DWG NO.
OF

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FILE NAME: ...150318_P-502.dwg SAVED ON 9/13/2017 3:10 PM PLOTTED ON 10/12/2017 12:00 PM PLOTTED BY ZILBERMAN, ALEX

STORM CALCULATION FOR 15" STORM SEWER:

TOTAL SITE AREA = 37,998 (SQ. FT.) @ 0.95 RUNOFF COEFFICIENT (OR 0.872 ACRE)

Q_{ALL} =190 * 100/18,200 = 1.04 CFS.

$C_{wt} = \frac{37,998 * 0.95}{37,997.1} = 0.95$

$Q_{DEV} = \frac{37,998 * 0.95}{7,320} = 4.93$ CFS

Q_{DRR} =0.25 CFS

DETENTION TANK CALCULATION BASED ON CONSTANT OUTFLOW BY MEANS OF PUMPING SYSTEM:

Tc =0.23 ($\sqrt{C_{WT}*A_T/Qdrr}$) - 15 = 0.23 (0.95*37,998/0.25) - 15 = 72.4 MINUTES

Vc =(0.19*C_{WT}*A_T/(Tc+15) - 57Q_{DRR})*Tc= (0.19*0.95*37,998/(72.4+15) - 57*0.25)*72.4 = 4,650 CU. FT.

DESIGN DETENTION TANK SHALL BE 25.6'W X 31.5'L X 14.0'H WITH MAXIMUM OF 7.87' HEIGHT AVAILABLE FOR STORM WATER STORAGE.
WHICH EQUATES TO A TOTAL VOLUME OF 6340 CU. FT. > 4,650 CU. FT. (REQUIRED DETENTION VOLUME).

NOTES:

1. ALL ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS ESTABLISHED AND MAINTAINED BY THE NATIONAL GEODETIC SURVEY OF THE NATIONAL OCEAN SERVICE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OR SUCCESSOR AGENCY, WHICH IS HEREBY ESTABLISHED AS THE CITY DATUM BY LOCAL LAW 96 OF 2013.
2. NO EXISTING SEWER CONNECTIONS HAVE BEEN FOUND AT THE VISUAL SURVEY OF THE SITE. SHOULD THE EXCAVATION UNCOVER ANY EXISTING DRAINAGE CONNECTIONS THE CONTRACTOR SHALL PLUG PIPE AT THE CURB LINE.
3. STREET UTILITIES SHOWN BASED ON UTILITY INFORMATION OBTAINED FROM TOPOGRAPHICAL AND UTILITY SURVEY PREPARED BY TRUE NORTH SURVEYORS, P.C. ALL OTHER UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, DUCT BANKS GAS PIPING, ETC.) ARE SHOWN ON SURVEY PLANS.
4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL REQUEST CODE 53 OF THE AREA. ONCE ALL EXISTING UTILITIES ARE MARKED CONTRACTOR SHALL HAVE MEETING WITH ALL INVOLVED UTILITY AGENCIES, SUCH AS CON EDISON, NEW YORK TELEPHONE DEP. ETC., TO REVIEW HIS EXCAVATION PROCEDURES IN AND AROUND THESE EXISTING FACILITIES.
5. NEW MANHOLE CONNECTION TO THE SEWER TO BE MADE IN ACCORDANCE WITH DEP RULES.

Fitting Losses as Equivalent Lengths in ft. Based on Pipe Dia. in Inches

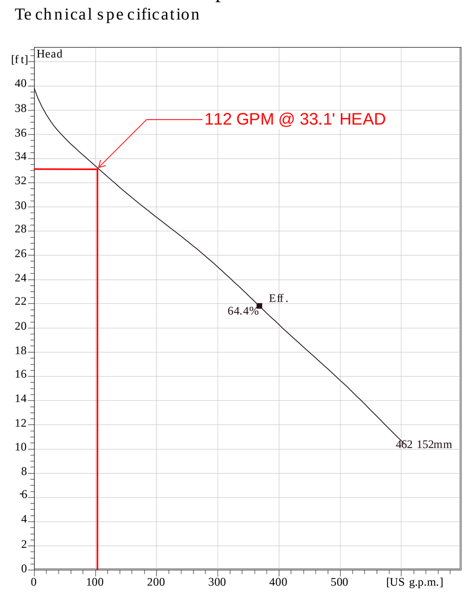
Type Fitting	Loss Pipe Dia.	# in System	Type Fitting	Loss Pipe Dia.	# in System	Type Fitting	Loss Pipe Dia.	# in System
Strainer	320		Medium Sweep Elbow	27		Enlargement, d/D = 1/4	32	
Globe Valve, Open	340		Long Sweep Elbow	20		Enlargement, d/D = 1/2	20	
Angle Valve, Open	170		45° Elbow	15	1	Enlargement, d/D = 3/4	7	
Swing Check Valve, Open	80	1	Flow through Wye	30		Contraction, d/D = 1/4	15	
Gate Valve, Open	7		Tee - Flow thru Run	20		Contraction, d/D = 1/2	12	
Ball Valve, Open	4	1	Standard Tee - Side to Run	65	1	Contraction, d/D = 3/4	7	
Standard Elbow	32	4	Tee - Side to Run, With Throat	45				

Elev.PumpOn	4.00	Elev.PumpOff	2.00	Elev.F.M.Dsch.	14.00	Det.Vol.-ft^3	4650	Det.Area- ft^2	806	Elev.Max.Strg.Vol.	7.77
F.M.Dia.-in.	2.0	F.M.Lgth.-ft.	42.00			Max.Pmp.Rt.-gpm	112	Min.Pmp.Rt.-gpm	102	Hazen-Williams C	130
Equivalent length of pipe in ft. for fittings	49	Min. Static Lift in ft.	6.23	Max. Static Lift in ft.	10.00			Prov.Strg.Dpth.- ft.	5.77		
Min. Hd. Ls.- ft.	33.85	Max. Hd. Ls.- ft.	33.19	Max.Rt.cfs	0.249	Min.Rt.cfs	0.227	Avg.Rt.- cfs	0.238	$V^2/(2g)$- (ft.)	2.03

BASED ON THE FRICTION LOSS CALCULATION ABOVE, THE PUMPING SYSTEM WILL BE PROVIDE WITH DUPLEX PUMPS RATED FOR 112 GPM @ 33.1' HEAD. ONLY ONE PUMP WILL BE OPERATING AT THE TIME, BASED ON LEAD-LAG SET-UP. IF WATER IN THE DETENTION TANK EXCEEDS DETENTION CAPACITY REQUIRED BY DEP, THE SECOND PUMP WILL COME ONLINE AND ALARM WILL SOUND TO INFORM OF A CRITICAL CONDITION.
THE PUMPING SYSTEM WILL BE PROVIDED WITH EMERGENCY POWER.

xylem DTP-1

NZ 3085 MT 3~ Adaptive 462
Technical specification



Note: Picture might not correspond to the current configuration.

General
Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Possible to be upgraded with Guide-pin® for even better clogging resistance. Modular based design with high adaptation grade.

Impeller

Impeller material	Grey cast iron
Discharge Flange Diameter	3 1/8 inch
Inlet diameter	3 1/8 inch
Impeller diameter	152 mm
Number of blades	2

Motor

Motor #	N3085.900 15-10-4AS-D IE3 3.5hp
Stator variant	75
Frequency	60 Hz
Rated voltage	208 V
Number of poles	4
Phases	3~
Rated power	3.5 hp
Rated current	9.6 A
Starting current	64 A
Rated speed	1800 rpm
Power factor	
1/1 Load	0.84
3/4 Load	0.77
1/2 Load	0.65
Efficiency	
1/1 Load	89.8 %
3/4 Load	89.4 %
1/2 Load	84.3 %

Configuration

TOTAL SITE SANITARY CALCULATION:

MAP NO. = 9-B
ZONING = C5-3 = R8
POPULATION DENSITY = 785 PERSONS/ACRE

$Q_{SAN} = \frac{785*A*150 \text{ GAL/DAY/PERSON} * 4(\text{PEAK FACTOR})}{7.48 * 86,400}$

$Q_{SAN} = \frac{375*0.872*150*4}{7.48 * 86,400} = 0.636$ CFS

CONNECTION #1 (COMBINED)

CONNECTION #1 SHALL BE 15" DUCTILE IRON COMBINED SEWER CONNECTING TO THE EXISTING MANHOLE.
THIS SEWER WILL DISCHARGE ALL OF THE SITES STORM WATER AND A PORTION (0.1 CFS) OF SITES SANITARY LOAD:

COMBINED FLOW =

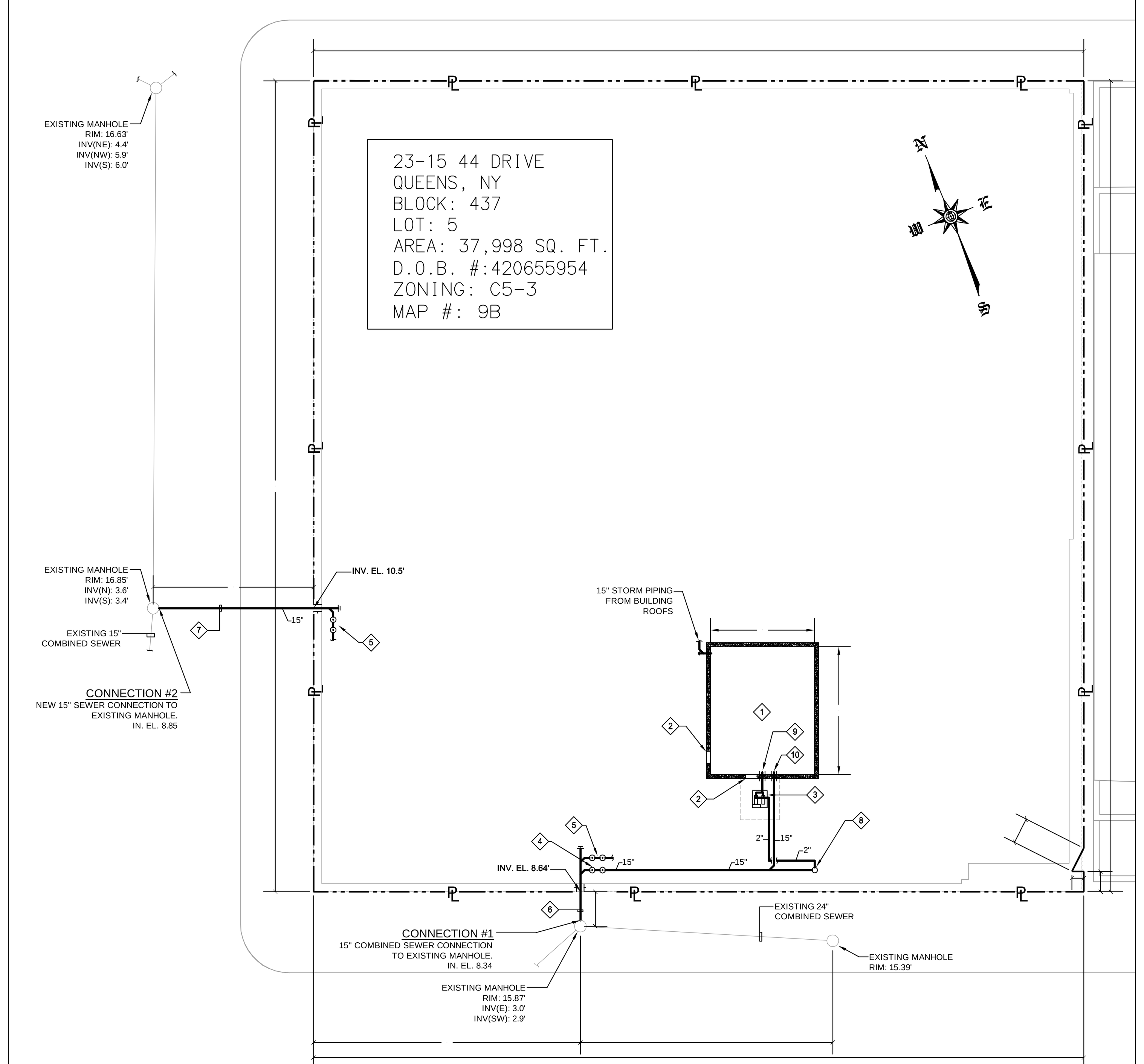
Q_{TOTAL} = Q_{DRR} + 0.1 = 0.25 + 0.1 = 0.35 CFS

CONNECTION #2 (SANITARY)

CONNECTION #2 SHALL BE 15" DUCTILE IRON SANITARY SEWER CONNECTING TO THE EXISTING MANHOLE.
THIS SEWER WILL DISCHARGE REMAINING PORTION OF THE SANITARY FLOW:

SAN FLOW =

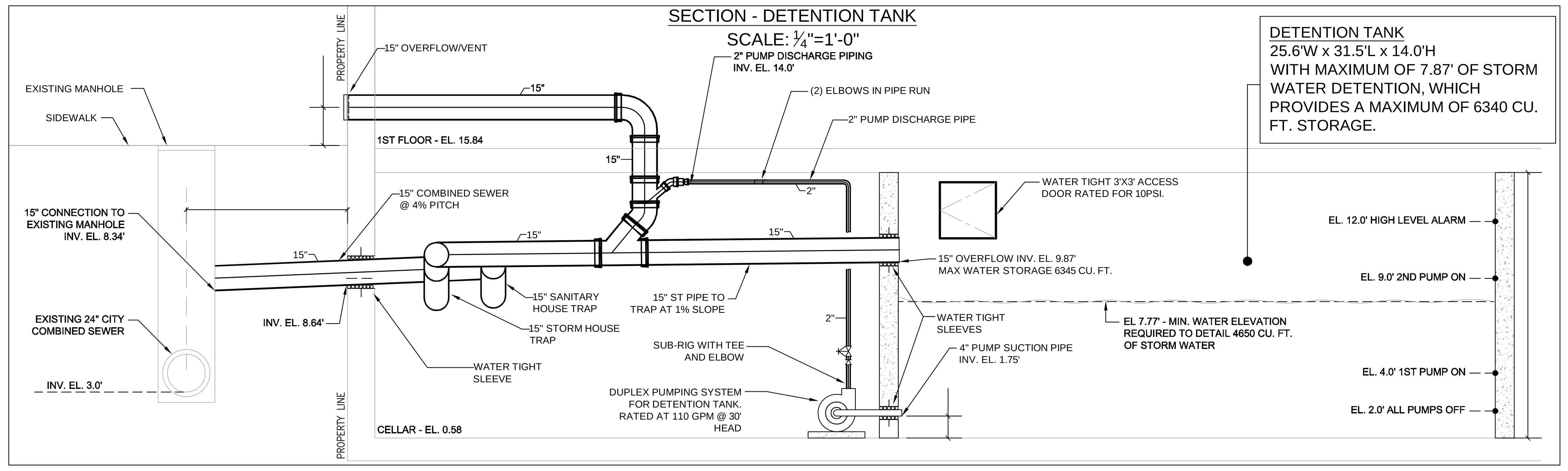
Q_{TOTAL} = Q_{SAN} - 0.1 = 0.636 - 0.1 = 0.536 CFS



1. STORM DETENTION TANK WITH MINIMUM STORAGE VOLUME OF 4650 CU. FT. OF RAIN WATER. TANK SHALL BE 31.5'L x 25.6'W x 14'H WITH MINIMUM 7.87' HEIGHT FOR STORM WATER DETENTION. SEE SECTION VIEW FOR ADDITIONAL INFORMATION.
2. 3'X3' WATER TIGHT AND MIN. 10PSI PRESSURE RATED ACCESS HATCH IN THE SIDE OF THE TANK.
3. DUPLEX DETENTION TANK PUMPING SYSTEM 'DTP-1'.
4. 15" STORM HOUSE TRAP
5. 15" SANITARY HOUSE TRAP
6. NEW COMBINED HOUSE SEWER 8.5' LIN. FT. 15Ø DI @ 4% PITCH STORM Q = 0.25CFS SAN Q = 0.1 CFS TOTAL Q = 0.35CFS
7. NEW SANITARY HOUSE SEWER 39.6' LIN. FT. 15Ø DI @ 4% PITCH STORM Q = 0 CFS SAN Q = 0.536 CFS TOTAL Q = 0.536 CFS
8. 15" VENT UP AND TERMINATE MAX 2' A.F.G. THROUGH BUILDING WALL VIA F.A.I.
9. 4" PUMP SUCTION PIPING.
10. 15" OVERFLOW/VENT PIPING.

SITE PLAN
SCALE: 1"=20'-0"

SECTION - DETENTION TANK
SCALE: ¼"=1'-0"



DETENTION TANK
25.6'W x 31.5'L x 14.0'H
WITH MAXIMUM OF 7.87' OF STORM WATER DETENTION, WHICH PROVIDES A MAXIMUM OF 6340 CU. FT. STORAGE.

QUEENS
23-15 44 DRIVE (AKA. 2 COURT SQUARE)
437
5, 7, 8, 9, 10, 11, 13, 15 & 20
5
C5-3 MAP 9B
RESIDENTIAL
FEE SIMPLE

DEVELOPED STORM FLOW OF 4.93 CFS WILL BE RESTRICTED TO 0.25 CFS BY MEANS OF DETENTION FACILITIES AND CONTROLLED PUMPING SYSTEM.

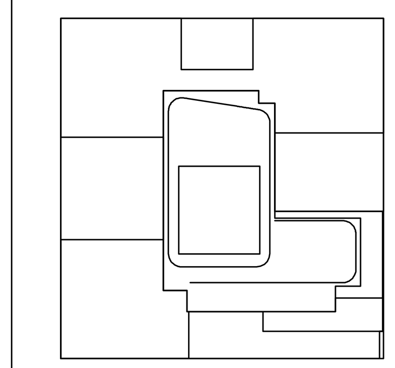
0.636 CFS

ALL ELEVATIONS REFER TO THE NORTH AMERICAL VERTICAL DATUM OF 1988 (NAVD 88), WHICH IS 1.645 FEET BELOW THE QUEENS BOROUGH SEWER DATUM.

PARK PLACE ESTATE, LLC
134-03 35TH AVE
FLUSHING, NY 11354
(718)321-8652

DOUGLAS C. MASS
COSENTINI ASSOCIATES
TWO PENNSYLVANIA PLAZA
3RD FLOOR
NEW YORK, NY 10121
(212)615-3600

DEPT OF BLDGS 420655954 Job Number
ES616831746 Scan Code



KEY PLAN

NOTES:

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
City View Tower at Court Square
23-15 44th Drive
Long Island City, NY 11101

Client:
Cityview Tower LLC
112-15 NORTHERN BLVD, CF-2
CORONA, NY 11368
(718) 321-8652

Architect:
HILL | WEST ARCHITECTS
11 BROADWAY
17TH FLOOR
NEW YORK, NY 10004
T. 212 213 8007

Consultant:
DESIMONE CONSULTING ENGINEERS
140 Broadway 25th Floor
New York, NY, 10005
(212) 532-2211
Cosentini Associates
Two Pennsylvania Plaza, 3rd FL,
New York, NY 10121
(212) 615-3600
Whitehall
11 Broadway, 17th Floor
New York, NY 10004
(212) 908-4940

DOB STAMPS & SIGNATURES:

DWG TITLE:
PLUMBING
SD 1&2 PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK DOUGLAS C. MASS LICENSED PROFESSIONAL ENGINEER No. 58375

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
P-601.00
DWG NO.
OF

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

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

DEPT OF BLDGS 420005954 Job Number
E557057979 Scan Code

V-62991-03

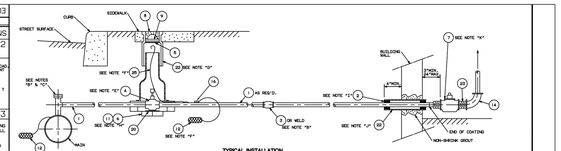
REVISIONS

M. BALDWIN 4/05/06	2
B. Gill 4/26/06	
R. GROOM	
REVISED TO AUTOCAD, UPDATED DWG. AND DELETED NOTE 2	
REVISED NOTES G & I	
RAJ 4/26/06	
M. BALDWIN 8/30/11	3
UPDATED DRAWING NOTES, AND BILL OF MATERIALS.	
DJ 6/22/11	

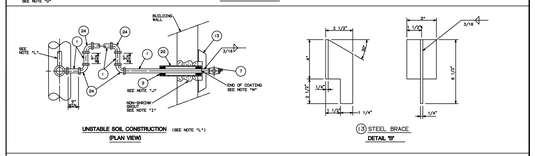
CONST. STDS. VOLUME 2

CONST. STDS. FIELD MANUAL SECTION: SERVICES

CONST. STDS. VOLUME 2

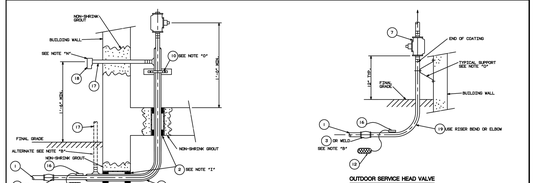


TYPICAL INSTALLATION



UNSTABLE SOIL CONSTRUCTION (SEE NOTE "L")
(PLAN VIEW)

(3) STEEL BRACE
DETAIL "B"



INSTALLATION WHERE SERVICE ENTERS FROM BENEATH BUILDING
(COLD ROLLED BEND)

OUTDOOR SERVICE HEAD VALVE
(INSTALLED SWEEP)

NOTES:

A. ALL CUSTOMER'S WORK SHALL CONFORM TO THE "REQUIREMENTS FOR GAS SERVICE INSTALLATIONS" BOOK AND ALL LOCAL CODE REQUIREMENTS.
B. REFER TO G-8100 FOR FIELD COATING DIRECT BURIED OR SLEEVED STEEL PIPE, FITTINGS, AND UNDERGROUND REPAIR TO GAS WELDED PIPE. REFER TO G-8206 FOR REQUIREMENTS TO INSTALL INSULATING JOINTS.
C. REFER TO G-8100, APPENDIX G AND EO-16649-B FOR THE APPROPRIATE SERVICE TO MAIN CONNECTIONS.
D. REFER TO G-8075 FOR MAGNESIUM ANODE INSTALLATION REQUIREMENTS ON UNPROTECTED STEEL. INSTALL A 32 LB. MAGNESIUM ANODE ON ALL UNPROTECTED STEEL SERVICES WITHIN 5 FEET OF THE METER.
E. REFER TO G-8153 FOR REINFORCEMENT REQUIREMENTS OF NEW OR EXISTING BURIED, NON-RESTRAINING COUPLINGS.
F. REFER TO G-8000 AND G-1(SS) FOR STEEL SERVICES DATABASE PROTECTION AND TESTING REQUIREMENTS. THE WHITE TEST LEAD WIRE SHALL EXTEND 12" FROM THE TOP OF THE CURB VALVE BOX.
G. REFER TO EO-2501-A TO 4" AND UP WELDED END BALL VALVE AND VALVE BOX INSTALLATION REQUIREMENTS.
H. SUPPORT THE CURB VALVE BOX (ITEM 12) WITH PRECAST BASE (ITEM 12) OR BRICKS (ITEM 29), ENTIRE BOTTOM SURFACE OF THE VALVE BOX MUST BE SUPPORTED.
I. REFER TO G-8076 FOR ANNULAR SPACE SEALING REQUIREMENTS. AFTER TIGHTENING HAS BEEN COMPLETED, ALL LINK SEAL BOLT HEADS SHALL BE COATED WITH MASTIC.
J. REFER TO G-8100 FOR PIPE BENDING REQUIREMENTS.
K. REFER TO G-8100 FOR REQUIREMENTS TO INSTALL FLANGED END SERVICE HEAD VALVE (S/A/V), FLANGED END S/A/V'S SHALL BE INSTALLED ON ALL LOW PRESSURE SERVICES 4" AND 6" SERVICES OPERATING AT GREATER THAN 1 PSI. WHERE REQUESTED BY THE CUSTOMER MUST INSTALL A FLANGE INSULATION KIT ON THE DOWNSTREAM SIDE OF ALL FLANGED END S/A/V'S.
L. REFER TO G-8100 AND G-1(SS) FOR SERVICE INSTALLATIONS IN UNSTABLE SOIL AND INSPECTION REQUIREMENTS. THE SERVICE SHALL BE INSTALLED WITH A MINIMUM OF 3 FEET OF SLACK FOR FLEXIBILITY AND A BRACE SHALL BE INSTALLED INSIDE THE BUILDING WALL TO PREVENT PULL-OUT. FOR OUTSIDE METER/REGULATOR SETS, INSTALL A FLEXIBLE STAINLESS STEEL HOSE BETWEEN THE HEAD OF SERVICE VALVE AND METER BAR. DO NOT MAKE CONNECTION TO A CAST IRON MAIN IN UNSTABLE SOIL. POSITION THE SERVICE TEE OUTLET PARALLEL TO THE MAIN.
M. IF A THREADED NIPPLE IS WELDED TO THE END OF THE SERVICE, THE WELD MUST BE EXPOSED AND CANNOT BE PAINTED OR COATED.
N. GAS VENT, SLEEVE PIPING, OR STEEL BRACE SHALL NOT BE IN DIRECT CONTACT TO THE BUILDING STEEL.
O. RISER SUPPORT TO BE INSULATED FROM PIPE WITH NEOPRENE (OR EQUIVALENT) WRAPPED AROUND PIPE.
P. WHERE A SERVICE (ITEM 1) IS INSTALLED THROUGH A CONCRETE WALL OR FLOOR, OR WHERE IT PASSES THROUGH THE FLOOR, GAS SERVICES INSERTED/INSTALLED UNDER AN ENCLOSED LIVING SPACE, GAS SERVICES INSTALLED THROUGH A SUBSURFACE VAULT OR OPEN AREAWAY, GAS SERVICES INSTALLED IN AN OPEN AREA UNDERNEATH AN OVERHANG, SEE EO-16649-B FOR ADDITIONAL REQUIREMENTS.
Q. "MARKING BURIED GAS LINES BELOW" TAPE (ITEM 24) MUST BE INSTALLED AT A MINIMUM OF 12" ABOVE THE TOP OF THE DIRECT BURIED NON-REINFACEMENT SERVICE, WHEN NON-REINFACEMENT SERVICES ARE INSERTED, THE TAPE MUST BE INSTALLED IN ALL EXCAVATIONS, SUCH AS THE MAIN CONNECTION, THE CURB VALVE AND THE OTHER EXCAVATIONS.

INSTALLATION OF STEEL GAS SERVICE PIPING

CONSOLIDATED EDISON COMPANY OF N.Y. INC.
GAS OPERATIONS DEPT.

DATE 3/21/84 | DWG. NO. EO-16629-A | REV. 3
LAST REV. 6/22/11 | SHEET 1 OF 2

FOR BILL OF MATERIAL SEE EO-16629-A SHEET 2 OF 2.

G-8097-03

REVISIONS

M. BALDWIN 4/05/06	2
REVISED BILL OF MATERIAL	
RAJ 4/26/06	
M. BALDWIN 8/30/11	3
UPDATED DRAWING NOTES, AND BILL OF MATERIALS.	
DJ 6/22/11	

ITEM	CLASS & STOCK NO.	DESCRIPTION	DWG. OR SPEC. NO.
15		ELBOW, SLEEVE, STEEL	
	338-6653	6" (FLANGED END)	
	338-6646	4" (THREADED END)	
	338-6638	3" (THREADED END)	
	338-6620	2" (THREADED END)	EO-12790-B
	338-6612	1 1/2" (THREADED END)	
	338-6604	1" (THREADED END)	
14		ELBOW, 90° MALLEABLE IRON, SCREWED ENDS	
	332-1106	4"	
	332-1095	3"	
	332-1049	2"	ANSI B 16.3
	332-1023	1 1/2"	
	332-1007	1 1/4"	
	332-0983	1"	
13		BRACE, STEEL, 2 REQ'D	SEE DETAIL "B"
12		ANODE, MAGNESIUM	
	079-0048	32 POUND	
	079-0030	17 POUND	G-8102
	079-0014	3 POUND	
11		BASE, CURB VALVE	
	002-2863	3" VALVE SIZE	EO-9241-D
	002-2848	1 1/4" & 1 1/2" VALVE SIZE	EO-9241-D
	002-4648	1" VALVE SIZE	EO-4789-D
10		FLAMP, SLEEVE	
9	003-4215	COVER, PLASTIC PLATE	EO-14021-D
8		COVER, VALVE BOX	
	003-3415	CAST IRON 4 5/8"x 4 5/8"	EO-4070-C
	002-2873	CONCRETE 4 5/8"x 4 5/8"	EO-4067-C
	003-9172	BOX, CURB VALVE, PLASTIC	
	003-7762	BOX, CURB VALVE, PLASTIC (UP TO 1 1/4" VALVE)	EO-16260-C
	003-8729	BOX, CURB VALVE, PLASTIC (2"- 3"- 4" VALVE)	EO-16633-C
	002-2873	CURB VALVE BOX, CONCRETE COVER	EO-4067
	003-9602	CAST IRON CURB VALVE BOX EXTENSION	EO-4045-C
	003-3423	BOX, CURB VALVE, C.I. 24"	EO-4044-C
	003-3369	BOX, CURB VALVE, C.I. 36"	EO-4045-C
7		VALVE, PLUG, SERVICE HEAD	
		** FOR OPERATING PRESSURE OF 1 PSI OR MORE	
		* FOR OPERATING PRESSURE OF LESS THAN 1 PSI	
	374-2319	12" (FLANGED END, REGULAR PATTERN	
	374-2301	12" (FLANGED END) SHORT PATTERN	
	374-2293	8" (FLANGED END) REGULAR PATTERN	
	374-2285	8" (FLANGED END) SHORT PATTERN	
	374-2277	6" (FLANGED END) REGULAR PATTERN	
	474-2269	6" (FLANGED END) SHORT PATTERN	
	374-2335	4" (FLANGED END)**	G-100,298
	374-2103	4" (SCREWED END)*	
	374-1345	3" (FLANGED END)**	
	374-0354	3" (SCREWED END)*	
	374-0321	2" (SCREWED END)	
	374-2085	1 1/2" (SCREWED END)	
	374-2434	1 1/4" (SCREWED END)	
	374-0248	1" (SCREWED END)	
6	000-0372	BRICK NO. 1 COMMON, RED	EO-13987-B
5	020-1145	LOCK, CURB VALVE BOX	
4		VALVE, PLUG, CURB	
	374-2251	12" (WELD END)	
	374-2244	10" (WELD END)	
	374-2236	8" (COMP. END)	
	374-2210	6" (COMP. END)	
	374-2202	4" (COMP. END)	G-100,298
	374-2194	3" (COMP. END)	
	374-2178	2" (COMP. END)	
	374-2160	1 1/2" (COMP. END)	
	374-2152	1 1/4" (COMP. END)	
	374-2145	1" (COMP. END)	
3		COUPLING, COMPRESSION, RESTRAINING, CONDUCTIV	
	337-9534	12"	
	337-9559	10"	
	337-8007	8"	
	337-7868	6"	G-100,285
	337-7876	4"	
	337-8700	3"	
	337-1228	2" x 12"	
	337-8106	2" x 6"	
	337-8858	1 1/2"	
	337-8098	1 1/4"	
	337-8841	1"	
2		SEAL, LINK (PIPE SLEEVE SIZE)	
	341-0776	12" x 16" (12 LINKS)	
	341-1030	10" x 16" (10 LINKS)	
	341-1006	8" x 12" (12 LINKS)	
	341-1008	8" x 10" (10 LINKS)	
	341-0750	4" x 8" (10 LINKS)	G-8096
	341-0750	3" x 6" (8 LINKS)	
	341-0750	2" x 4" (6 LINKS)	
	341-1048	1 1/2" x 3" (7 LINKS)	
	NON-STOCK	1 1/4" x 3" (8 LINKS)	
	341-0750	1" x 3" (4 LINKS)	
1		PIPE, STEEL, SCH. 40 COATED	
	323-0646	12"	
	323-0638	10"	
	323-0620	8"	
	323-0612	6"	
	323-0598	4"	G-8107
	323-0299	3"	
	323-0695	2"	
	323-0349	1 1/2"	
	323-0729	1 1/4"	
	323-0372	1"	

BILL OF MATERIAL

ITEM	CLASS & STOCK NO.	DESCRIPTION	DWG. OR SPEC. NO.
26	024-6660	TAPE, "WARNING GAS LINE BELOW"	G-8100
25	563-1395	WIRE, WHITE #10	G-8205
24		ELBOW, 90° COMPRESSION RESTRAINING	
	337-2603	6" (WELD END)	
	337-2662	4" (WELD END)	
	337-8999	3"	
	337-9054	2"	G-100,285
	337-9062	1 1/2"	
	337-9070	1 1/4"	
	337-9088	1"	
23		NIPPLE, STEEL, SHOULDER, SCH. 80	
	330-1702	4" x 4 1/2"	
	330-1611	3" x 3 1/2"	ASTM A53 GR.B
	330-1322	2" x 3 1/2"	
	330-3286	1 1/4" x 2 1/2"	
	330-2999	1 1/4" x 2 1/2"	
	330-0837	1" x 2 1/2"	
22	———	SLEEVE, WALL, SCH. 40 STEEL OR P.V.C. PIPE	G-8096
21		BOX, CURB VALVE	
	003-3365	CAST IRON (CV 36-P COMPLETE)	EO-4045-C
	003-2423	CAST IRON (CV-24-P COMPLETE	EO-4044-C
	003-7762	PLASTIC (COMPLETE PACKAGE)	EO-16260-B
20	686-0134	ROCKSHIELD, PLASTIC MESH	———
19		BEND, PIPE, RISER	
	003-0700	2"	———
	003-1047	3"	
18	338-5622	CAP, VENT, 3/4"	G-389
17	320-1654	PIPE, STEEL 3/4", SCH. 40,	G-8107
16	058-3534	THERMIT WELD	G-100,279

BILL OF MATERIAL

THIS DRAWING IS REFERENCED IN SPECIFICATION G-8100
FOR NOTES SEE INSTALLATION DWG. EO-16629-A SHEET 1 OF 2

INSTALLATION OF STEEL GAS SERVICE PIPING BILL OF MATERIAL

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS OPERATIONS DEPT.

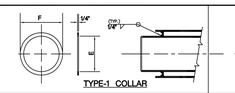
DATE 3/21/84 | DWG. NO. EO-16629-B | REV. 3
LAST REV. 6/22/11 | SHEET 2 OF 2

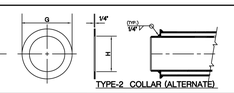
EO-12790-B

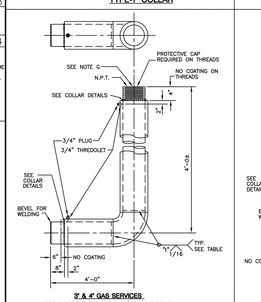
REVISIONS

REDRAWN TO AUTOCAD, UPDATED DWG. AND DELETED NOTE 2 C.W. 5/16/97	12
P. LONSETH	13
CHANGED TITLE, REMOVED SCOTCHKOTE, ADDED NOTE "F2, F3" AND "F4" M.A. 4/27/05	
D. MIRSA 7/15/10	14
REVISED TITLE, DELETED NOTE 2, ADDED NOTE REVISED NOTE #1 TO UPDATE STANDARD NAME, REMOVED NOTE G, CLARIFIED COLLAR DETAILS. ADDED NOTE "G" FOR TYPE 1 COLLAR FOR 4" SVC. PIPE. ADDED REFERENCE TO COLLAR DETAILS.	
A. D. 07/13/10	

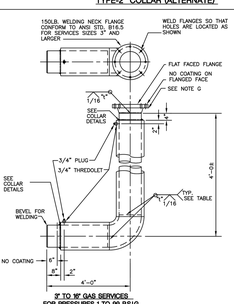
GAS OPERATIONS CONSTRUCTION STANDARDS VOLUME 8



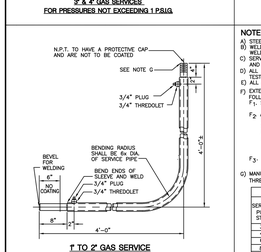




3" & 4" GAS SERVICES
FOR PRESSURES NOT EXCEEDING 1 P.S.I.G.



3" TO 16" GAS SERVICES
FOR PRESSURES 1 TO 99 P.S.I.G.



1" TO 2" GAS SERVICE

NOTES:

A) STEEL PIPE SHALL CONFORM TO A.S.T.M. A 53 OR API 5L.
B) WELDS SHALL BE MADE IN ACCORDANCE WITH API 1104. THE MINIMUM DEPTH OF BUTT WELD "X" SHALL BE EQUAL TO WALL THICKNESS OF PIPE SLEEVE.
C) SERVICE PIPE AND SLEEVE SHALL BE TESTED INDEPENDENTLY FOR LEAKS AT 150 P.S.I.G. AND OBSERVED FOR ANY DROP IN PRESSURE FOR 10 MINUTES DURATION.
D) ALL WELDS SHALL BE CHECKED USING LEAK DETECTION SOLUTION DURING THE LEAK TEST.
E) ALL WELDING FITTINGS SHALL CONFORM TO ANSI B16.9.
F) EXTERIOR SURFACE OF ENTIRE ASSEMBLY SHALL BE COATED AFTER FABRICATION AS FOLLOWS:
F_1 SANDBLAST TO A NEAR WHITE METAL FINISH AS PER NACE NO. 2/SSPC-SP 10.
F_2 APPLY ONE OF THE FOLLOWING COATINGS IN ACCORDANCE WITH THE COATING MANUFACTURERS RECOMMENDED PROCEDURES AT THE MINIMUM DRY FILM THICKNESS SHOWN BELOW:

MANUFACTURER	COATING	MINIMUM DRY FILM THICKNESS
BITUMASTIC	NO. 300-M	20MILS (BRUSH APPLIED)
3M	SCOTCHKOTE 312	20MILS (BRUSH APPLIED)
COOK	NO. 1500	18MILS (FACTORY APPLIED)

F_3 MANUFACTURERS COATING APPLICATION IS TO BE APPROVED BY CORROSION CONTROL.
G) MANUFACTURER'S NAME TO BE PLACED ON TESTED UNIT WITHIN 6" FROM THE THREADED OR FLANGED END.

TABLE FOR 3" TO 16" GAS SERVICES

SERVICE PIPE STD.	SLEEVE STD.	PIPE SIZE OF 90°WELDING ELBOWS STD.	PIPE SIZE OF 90°WELDING ELBOWS (STR.)	WELDING NECK FLANGE	PIPE THREAD	COLLAR DIMENSIONS TYPE 1 E	TYPE 1 G	TYPE 2 H
3"	6"	3"	3"	150#	3"	3 5/8"	4 15/16"	3 9/16"	3 5/8"
4"	8"	4"	4"	150#	4"	4 5/8"	5 15/16"	4 5/8"	4 5/8"
6"	8"	6"	6"	150#	——	6 3/4"	7 15/16"	10 5/8"	6 3/4"
8"	10"	8"	10"	150#	——	8 3/4"	9 7/8"	12 3/4"	8 3/4"
10"	14"	10"	14"	150#	——	10 7/8"	13 1/8"	16"	10 7/8"
12"	16"	12"	16"	150#	——	12 7/8"	15 1/8"	18"	12 7/8"
16"	20"	16"	20"	150#	——	16 1/8"	19 1/8"	22"	16 1/8"

REFERENCE DWG:
INSTALLATION ———————— EO-16629-A

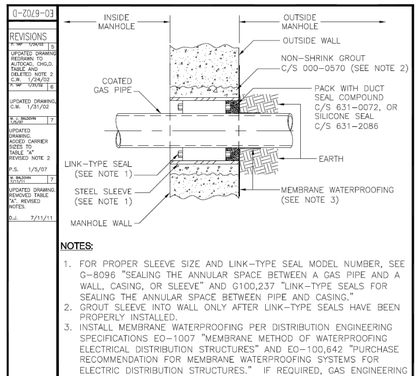
90 ELBOW UNITS	
SIZE	STOCK NO.
1 1/2"	338-6612
2"	338-6620
3" THRD	338-6638
4" THRD	338-6646
6"	338-6653

TABLE FOR 1" TO 2" GAS SERVICE	
SERVICE PIPE	SLEEVE
1" EXTRA STR.	1 1/2" STD.
1 1/4" STD.	2" STD.
2" STD.	2 1/2" STD.

RIGID SLEEVED ELBOW UNIT
0 TO 90° UP TO
99 PSIG MAX OPERATING PRESSURE

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS OPERATIONS DEPT.

DATE 4/27/66 | DWG. NO. EO-12790-B | REV. 14
LAST REV. 7/15/10



NOTES:

1. FOR PROPER SLEEVE SIZE AND LINK-TYPE SEAL MODEL NUMBER, SEE G-8096 "SEALING THE ANNULAR SPACE BETWEEN A GAS PIPE AND A WALL, CASING, OR SLEEVE" AND G100,237 "LINK-TYPE SEALS FOR SEALING THE ANNULAR SPACE BETWEEN PIPE AND CASING."
2. GROUT SLEEVE INTO WALL ONLY AFTER LINK-TYPE SEALS HAVE BEEN PROPERLY INSTALLED.
3. INSTALL MEMBRANE WATERPROOFING PER DISTRIBUTION ENGINEERING SPECIFICATIONS EO-1007 "MEMBRANE METHOD OF WATERPROOFING ELECTRICAL DISTRIBUTION STRUCTURES" AND EO-100,642 "PURCHASE RECOMMENDATION FOR MEMBRANE WATERPROOFING SYSTEMS FOR ELECTRIC DISTRIBUTION STRUCTURES." IF REQUIRED, GAS ENGINEERING MAY SUBSTITUTE THE MEMBRANE SPECIFIED WITH AN APPROVED MEMBRANE.

METHOD OF SEALING GAS PIPING IN MANHOLE WALLS

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT.

DATE 4/23/74 | DWG. NO. EO-6702-D | REV. 8
LAST REV. 7/1/11

G-8096-8

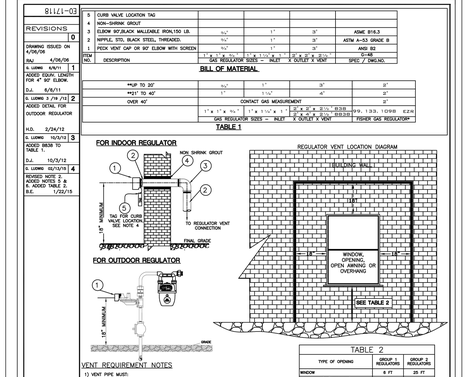
GAS SERVICE SLEEVE SEAL DETAIL
(SEE CONED DOCUMENT G-8096 FOR ADDITIONAL INFORMATION)

G-2078-03

REVISIONS

"I" AND "I(SS)"	5
UPDATED DRAWING TO AUTOCAD, CHGD. TABLE AND DELETED NOTE 2 M. MIRSA 7/15/10	6
UPDATED DRAWING. C.W. 1/31/02	
R.A. BUSHAW	7
UPDATED UPGRADED ADDED CARRIER NOTES TO TABLE "A". REVISED NOTE 2	
P.S. 1/5/07	
R. BUSHAW	8
UPDATED DRAWING. REMOVED TABLE "A". REVISED NOTES.	
DJ 7/11/11	

GAS OPERATIONS CONSTRUCTION STANDARDS VOLUME 2



NOTES:

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3. INSTALL MEMBRANE WATERPROOFING PER DISTRIBUTION ENGINEERING SPECIFICATIONS EO-1007 "MEMBRANE METHOD OF WATERPROOFING ELECTRICAL DISTRIBUTION STRUCTURES" AND EO-100,642 "PURCHASE RECOMMENDATION FOR MEMBRANE WATERPROOFING SYSTEMS FOR ELECTRIC DISTRIBUTION STRUCTURES." IF REQUIRED, GAS ENGINEERING MAY SUBSTITUTE THE MEMBRANE SPECIFIED WITH AN APPROVED MEMBRANE.

G-8096-8

GAS SERVICE SLEEVE SEAL DETAIL
(SEE CONED DOCUMENT G-8096 FOR ADDITIONAL INFORMATION)

G-11718

REVISIONS

5	CURB VALVE LOCATION TAG	
6	NON-SHRINK GROUT	
3	ELBOW 90°,BLACK MALLEABLE IRON,150 LB.	———	———	———	———	
4	NIPPLE, STD, BLACK STEEL, THREADED.	½"	1"	3"	ASME B16.3
5	PECK VENT CAP OR 90° ELBOW WITH SCREEN	½"	1"	3"	ASTM A-53 GRADE B
		1 1/4" FOR REGULATOR SIZES 1" - 3"	2" FOR REGULATOR SIZES 4" - 16"		AWG 82
REV NO.	DESCRIPTION	GAS REGULATOR SIZES — INLET	X OUTLET X VENT		G-189 SPEC / TABS NO.

DRAWING ISSUED ON 4/05/06
M. BALDWIN 6/6/11
ADDED DETAIL FOR 4" NOT ELBOW.
D.J. 6/6/11
M. LUDWIG 3 /19 /12
ADDED DETAIL FOR OUTDOOR REGULATOR
D.J. 3/24/12
M. LUDWIG 10/3/12
ADDED SEAL TO TABLE 1.
D.J. 10/3/12
M. LUDWIG 01/13/16
REVISED NOTE 2 ADDED NOTES 3 & 4. ADDED TABLE 2.
R.C. 1/02/13

BILL OF MATERIAL

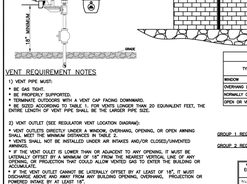
**UP TO 20'	———	1"	3"	3"
**21' TO 40'	———	1"	1 1/4"	3"
OVER 40'	CONTACT GAS MEASUREMENT			3"
ADDED DETAIL FOR OUTDOOR REGULATOR	1" x 1" x ½"	1" x 1 1/4" x 1"	3" x 3" x 3"	3"
	GAS REGULATOR SIZES — INLET		X OUTLET X VENT	FISHER GAS REGULATOR

TABLE 1

FOR INDOOR REGULATOR

REGULATOR VENT LOCATION DIAGRAM

FOR OUTDOOR REGULATOR



VENT REQUIREMENT NOTES

1) VENT PIPE MUST:
• BE GAS TIGHT.
• BE PROPERLY SUPPORTED.
• TERMINATE OUTDOORS WITH A VENT CAP FACING DOWNWARD.
• BE SIZED ACCORDING TO TABLE 1. FOR VENTS LONGER THAN 20 EQUIVALENT FEET, THE ENTIRE LENGTH OF VENT PIPE SHALL BE THE LARGER PIPE SIZE.

2) VENT OUTLET (SEE REGULATOR VENT LOCATION DIAGRAM):
• VENT OUTLETS DIRECTLY UNDER A WINDOW, OVERHANG, OPENING, OR OPEN AWNING SHALL MEET THE MINIMUM DISTANCES IN TABLE 2.
• VENTS SHALL NOT BE INSTALLED UNDER AIR INTAKES AND/OR CLOSED/UNVENTED OPENINGS.
• IF THE VENT OUTLET IS LOWER THAN OR ADJACENT TO ANY OPENING, IT MUST BE LATERALLY OFFSET BY A MINIMUM OF 1'0" FROM THE NEAREST VERTICAL LINE OF ANY OPENING, OR PROJECTION THAT COULD ALLOW VENTED GAS TO ENTER THE BUILDING OR ANY OTHER STRUCTURE.
• IF THE VENT OUTLET CANNOT BE LATERALLY OFFSET BY AT LEAST OF 1'0", IT MUST DISCHARGE ABOVE AND AWAY FROM ANY BUILDING OPENING, OVERHANG, PROJECTION OR POWERED INTAKE BY AT LEAST 10'.

3) VENT CAP SHALL:
• BE A WEATHER AND INSECT RESISTANT FITTING, E.G., A PECK VENT.
• NOT BE COVERED IN ANY WAY THAT WOULD PREVENT THE FREE FLOW TO THE OUTSIDE.

4) INSTALL TAG (PER G-8039) TO IDENTIFY THE CURB VALVE LOCATION. IN NYC IF THE VENT CAP USED IS NOT MARKED " GAS" OR " GAS VENT", THEN THIS MARKING MUST BE ADDED TO THE TAG. IF MORE THAN ONE VALVE LOCATION TAG, ANOTHER TAG, OR A SIGN ON THE BUILDING (SEE G-11(M)B).

5) FOR RUNS OF VENT PIPING EXCEEDING 10 LINEAR FEET, A COMPRESSION COUPLING OR TEE (JS BLACK IRON UNION THE SIZE OF THE VENT PIPE SHALL BE INSTALLED WITHIN 2 FEET OF THE REGULATOR.

6) IF A SUITABLE VENT OUTLET LOCATION MEETING THE REQUIREMENTS OF THIS DRAWING CANNOT BE FOUND, CONTACT GAS ENGINEERING FOR ASSISTANCE IN THE DETERMINATION OF A COMPLIANT LOCATION WHERE THERE IS NO RISK TO PUBLIC SAFETY.

TABLE 2

TYPE OF OPENING	GROUP 1 REGULATORS	GROUP 2 REGULATORS
WINDOW	4 FT	25 FT
OVERHANG (24" OR LESS)	4 FT	25 FT
NORMALLY CLOSED OPENING	4 FT	25 FT
OPEN OR VENTED AWNING	4 FT	25 FT

GROUP 1 REGULATORS: 1" x 1" x ½"; 1" X 1-1/4" X 1"; FISHER (OR EQUIVALENT) RK 133, 1098, EZH
GROUP 2 REGULATORS: 2" x 1" x 1"; 2" X 2" x 2-1/2"; 3" x 2" x 2-1/2"

** CONSIDER EACH 90° ELBOW TO BE EQUIVALENT TO STRAIGHT PIPE LENGTHS AS FOLLOWS:

¾" – 2"	1" – 2"	3"	4"	6"
5'	7'	10'	15'	20'

*CUSTOMER TO INSTALL 3" VENT PIPING FROM OUTDOOR VENT CAP ALONG INSIDE WALL TO A POINT 6" ABOVE THE CURB VALVE REGULATOR RUN. CONFIRM TO MAKE FINAL CONNECTION TO VENT LINE.

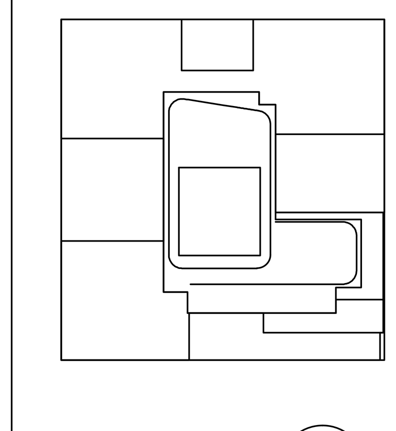
METERING SPECIFICATIONS AND PROCEDURES VOLUME #3

YELLOW BOOK

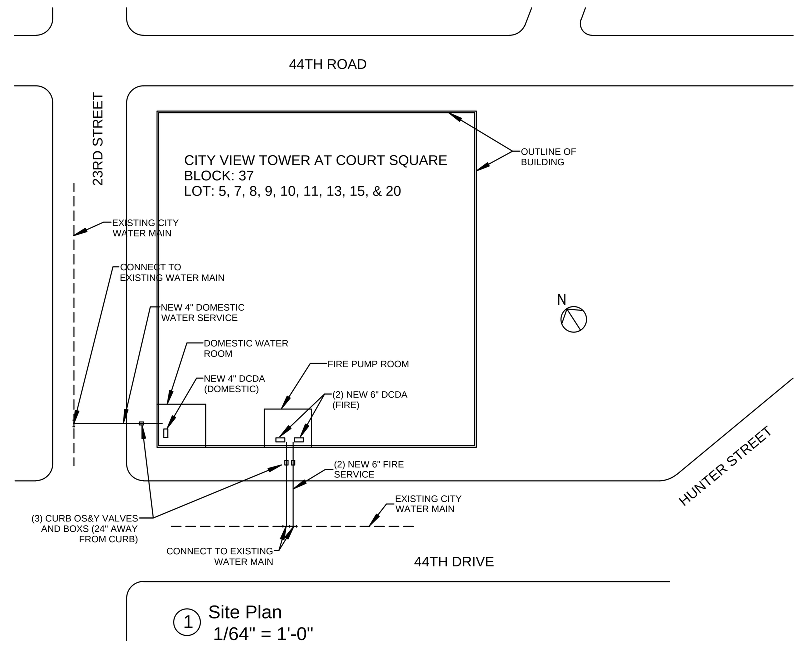
REGULATOR VENT INSTALLATION

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT.

DATE 2/8/05 | DWG. NO. EO- 17118 | REV. 4
LAST REV.



NOTES:

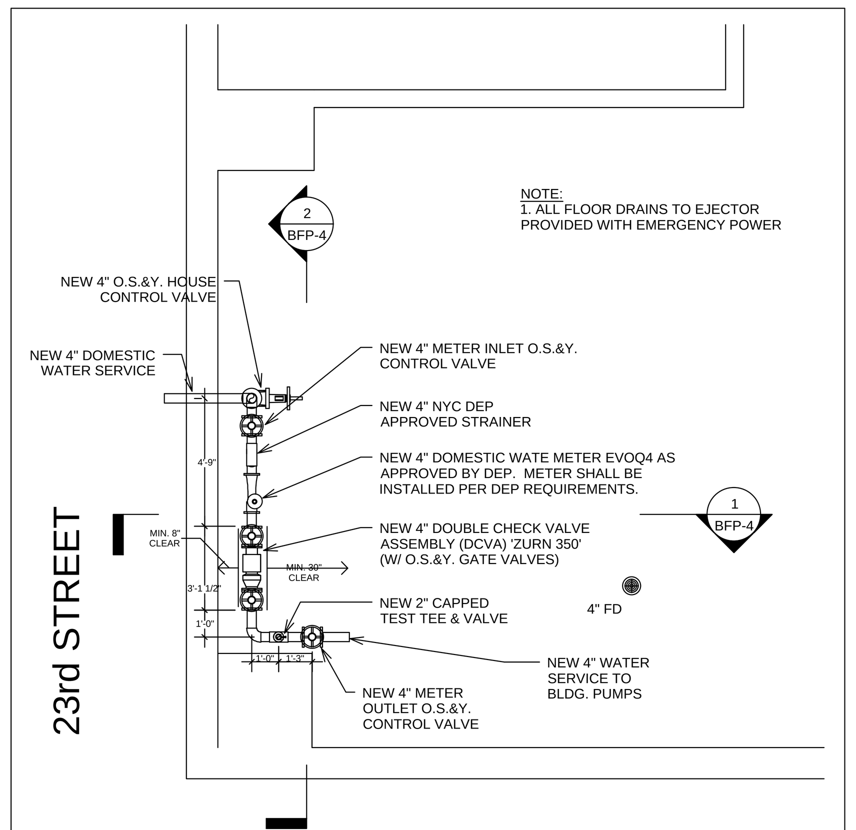


1 Site Plan
1/64" = 1'-0"

BACKFLOW PREVENTER NOTES:

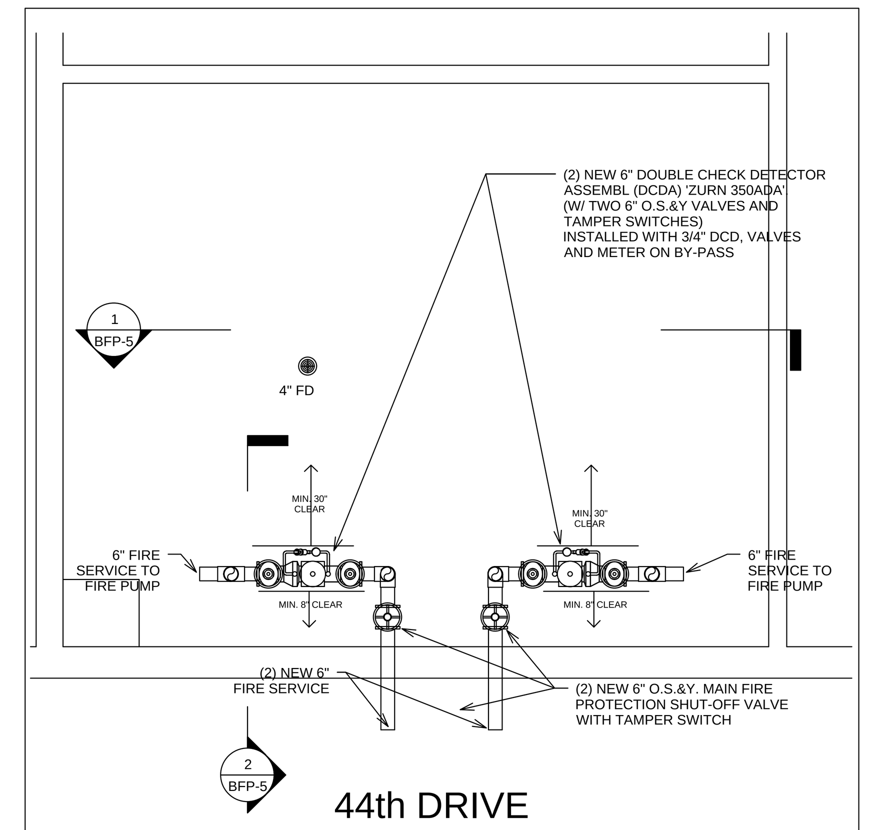
1. ALL PIPING BETWEEN SERVICE ENTRY POINTS AND BFP UNIT SHALL BE STENCILED TO READ "FEED TO BACKFLOW PREVENTER. DO NOT TAP OR CONNECT TO THIS LINE." LETTERING SHALL BE 1" HIGH BLACK LETTERS ON WHITE BACKGROUND. STENCILING SHALL BE AT 5'-0" INTERVALS, AND AT WALL AND FLOOR PENETRATIONS.
2. FIRE PROTECTION SPRINKLER AND STANDPIPE SYSTEM IS CHARACTERIZED AS FOLLOWS:
   - A. THE FIRE DEPARTMENT SIAMESE CONNECTIONS ARE NOT WITHIN 700 FT. OF AN "UNCERTIFIED" WATER SOURCE. ALL FIRE SERVICES ARE PROTECTED WITH WILKINS MODEL 350ADA DCDA.
   - B. THERE ARE NO CHEMICALS USED IN THE SPRINKLER SYSTEM.
   - C. THERE ARE NO FIRE WELLS IN THE PREMISES.
   - D. DOMESTIC & FIRE WATER RISERS DO NOT INTERCONNECT AT ANY POINT ON THE HOUSE SIDE OF THE "BFP" DEVICES.
3. FRONT DEVICE SIDE CLERANCE OF 30" TO THE OPEN AREA SHALL BE PROVIDED FOR BACKFLOW PREVENTERS.
4. PROPERTY OWNER WILL BE MADE AWARE OF THE POTENTIAL WATER DAMAGE IN THE EVENT OF RPZ DISCHARGE.

SCALE: 1/64" = 1'-0"
SKETCH NO: BFP-1



1 DOMESTIC WATER ROOM
1/4" = 1'-0"

SCALE: 1/4" = 1'-0"
SKETCH NO: BFP-2



1 FIRE PUMP ROOM
1/4" = 1'-0"

SCALE: 1/4" = 1'-0"
SKETCH NO: BFP-3

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	10/06/2017	ISSUED FOR DOB
	09/15/2017	90% CD SET
	06/02/2017	85% CD SET
	03/24/2017	50% CD SUBMISSION SET
	01/27/2017	SUPERSTRUCTURE SET
	01/25/2017	ISSUED FOR DOB
	11/17/2016	FACADE PRICING SET
	11/11/2016	100% DD/FOUNDATION BID SET
	10/12/2016	ISSUED FOR DOB
	02/05/2016	DOB FILING SET

Project:
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New York, NY 10121
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Whitehall
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New York, NY 10004
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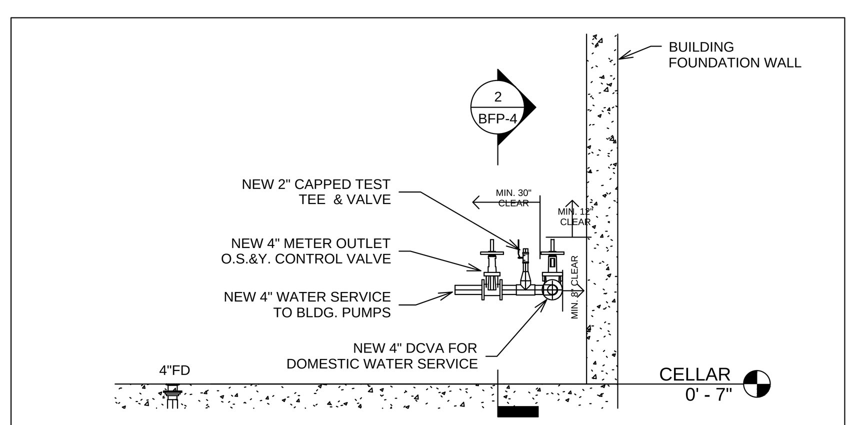
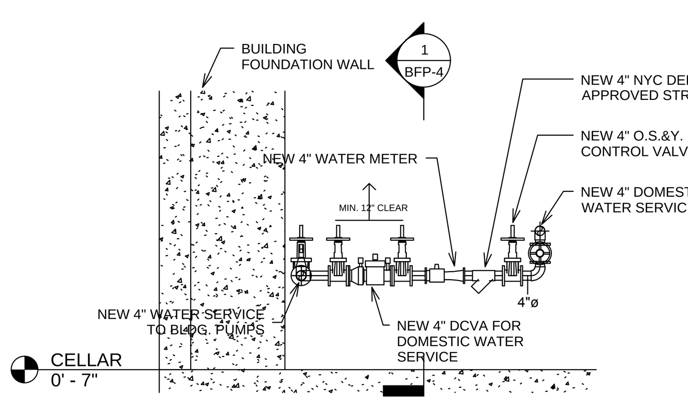
DOB STAMPS & SIGNATURES:

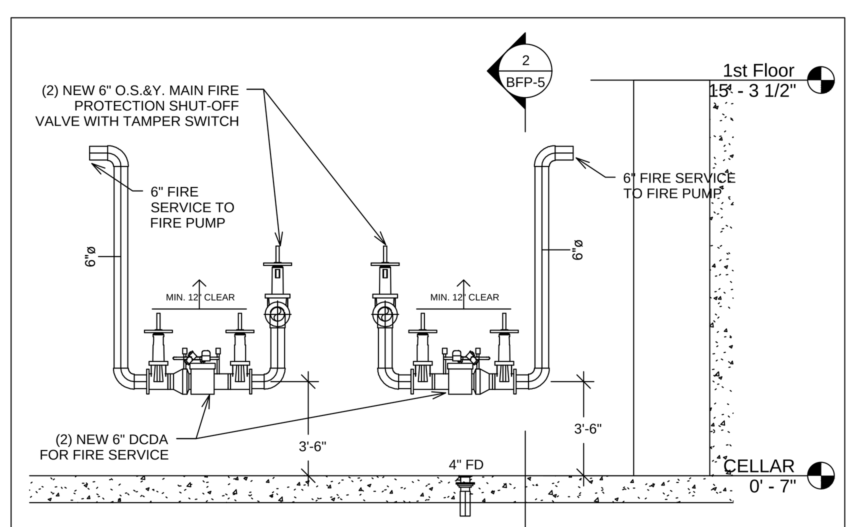


1 DOMESTIC WATER ROOM SECTION 1 OF 2
1/4" = 1'-0"

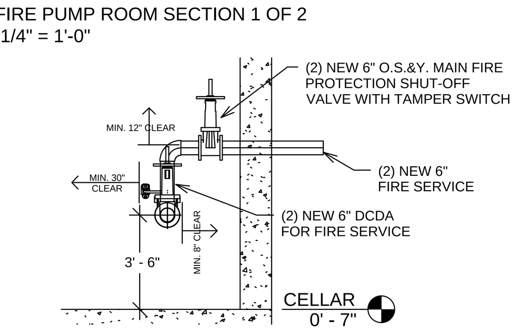


2 DOMESTIC WATER ROOM SECTION 2 OF 2
1/4" = 1'-0"

SCALE: 1/4" = 1'-0"
SKETCH NO: BFP-4



1 FIRE PUMP ROOM SECTION 1 OF 2
1/4" = 1'-0"



2 FIRE PUMP ROOM SECTION 2 OF 2
1/4" = 1'-0"

SCALE: 1/4" = 1'-0"
SKETCH NO: BFP-5

DWG TITLE:
PLUMBING
BACKFLOW PREVENTION DEVICES

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

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SEAL & SIGNATURE:
STATE OF NEW YORK DOUGLAS C. MASS No. 58375 LICENSED PROFESSIONAL ENGINEER

DATE: 09/15/2017
PROJECT #: 150318
SCALE: N.T.S.
DWG NO. P-603.00
OF

DEPT OF BLDGS 420655954 Job Number

ES100306209 Scan Code