SITE B - OFFICE OF EMERGENCY MANAGEMENT - 165 CADMAN PLAZA EAST, BROOKLYN, NY 11201

MECHANICAL DRAWING LIST

	DRAWING NUMBER	DRAWING TITLE	SCALE	DESIGN DEVELOPMENT 02/13/2015	100% CD 05/15/2015	100% CD 07/08/2015	100% CD 09/11/2015	ADDENDUM #1 03/15/2016
1	M-100.00	MECHANICAL DRAWING LIST, SCOPE OF WORK AND NOTES	NTS	●	●	●	●	●
2	M-101.00	MECHANICAL LEGEND AND ABBREVIATIONS	NTS	●	●	●	●	
3	M-300.00	MECHANICAL BASEMENT FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●
4	M-301.00	MECHANICAL FIRST FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●
5	M-302.00	MECHANICAL SECOND FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●
6	M-303.00	MECHANICAL THIRD FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●
7	M-304.00	MECHANICAL ROOF PLAN	1/8"=1'-0"	●	●	●	●	●
8	M-500.00	MECHANICAL HOT WATER RISER DIAGRAM	NTS	●	●	●	●	
9	M-501.00	MECHANICAL GLYCOL AND HOT WATER FLOW DIAGRAMS	NTS	●	●	●	●	●
10	M-502.00	MECHANICAL AIR SCHEDULES (SHEET 1 OF 2)	NTS	●	●	●	●	
11	M-503.00	MECHANICAL AIR SCHEDULES (SHEET 2 OF 2)	NTS	●	●	●	●	
12	M-700.00	MECHANICAL SCHEDULES	NTS	●	●	●	●	
13	M-800.00	MECHANICAL CONTROLS AND SEQUENCES (SHEET 1 OF 2)	NTS	●	●	●	●	
14	M-801.00	MECHANICAL CONTROLS AND SEQUENCES (SHEET 2 OF 2)	NTS	●	●	●	●	●

1

SCOPE OF WORK

DEMOLITION WORK

1. PRIOR TO BEGINNING ANY DEMOLITION WORK, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL SHUTDOWNS AND WORK WITH THE BUILDING MANAGEMENT AND DDC. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO TRACE ALL EXISTING SYSTEMS WITHIN THE DEMOLITION SCOPE. SYSTEMS SERVING THE FLOORS IN SCOPE, BUT ROUTED OUTSIDE OF THE SPACE (TO OTHER FLOORS OR ROOFS, ETC.) SHALL BE INCLUDED IN THE DEMOLITION WORK.

NEW WORK

1. PROVIDE AND INSTALL NEW SELECTIVE HVAC WITHIN THE AREA OF WORK INDICATED ON THE NEW WORK PLANS. THIS SHALL INCLUDE EXISTING EQUIPMENT, COMPUTER ROOM AIR CONDITIONING UNITS, DRY COOLERS, DUCTWORK, DAMPERS, PIPING, INSULATION, ELECTRICAL, CONTROLS, CONTROLS ACCESSORIES, SENSORS, THERMOSTATS AND OTHER APPURTENANCES.
2. (ECM 1.1) – PROVIDE AND INSTALL NEW BUILDING MANAGEMENT SYSTEM CONTROLLED HOT WATER RESET CONTROLLER ON THE EXISTING HOT WATER SYSTEM.
3. NOT USED.
4. (ECM 1.3) – PROVIDE AND INSTALL NEW STATIC PRESSURE SENSORS FOR THREE (3) EXISTING ROOF TOP UNIT RETURN FANS INTEGRATED INTO THE EXISTING BUILDING MANAGEMENT SYSTEM. WORK TO BE SCHEDULED WITH BUILDING AND WILL MOST LIKELY BE COMPLETED DURING OFF HOURS. (1)
5. (ECM 4) – REBALANCE EXISTING THREE (3) ROOF TOP AC UNITS, EXHAUST FANS, PUMPS, GLYCOL LOOP, AND CRAC UNITS AS INDICATED. BALANCING SHALL BE SCHEDULED WITH BUILDING AND COMPLETED DURING OFF HOURS.
6. (RCM G.1.i) – REPROGRAM EXISTING SEQUENCES FOR THREE (3) ROOFTOP UNIT DISCHARGE TEMPERATURES.
7. (RCM G.1.ii) – SURVEY AND TEST EXISTING PRIMARY OUTDOOR AIR CARBON DIOXIDE SENSOR FOR CORRECT OPERATION. EXISTING SENSORS THAT HAVE FAILED SHOULD BE RECALIBRATED IF POSSIBLE, REPLACEMENT SHALL NOT BE REQUIRED AS THE FACILITY HAS REPLACED DEFECTIVE SENSORS AS NEEDED. RECALIBRATE THE OUTDOOR AIR DAMPER ACTUATORS FOR THREE (3) ROOFTOP AC UNITS.
8. COORDINATE ALL ARCHITECTURAL WORK WITH MECHANICAL WORK LOCATIONS AND ARCHITECTURAL NOTES.

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, APPLIANCES, AUXILIARIES, SERVICES, HOISTING, SCAFFOLDING, SUPPORT, SUPERVISION, AND PROJECT RECORD DOCUMENTS, AND SHALL PERFORM ALL OPERATIONS FOR THE COMPLETION OF THE FIT-OUT WORK FOR OFFICE AREA.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING ANY STATE OR CITY BUILDING CODE, ENERGY CONSERVATION CONSTRUCTION CODE, MECHANICAL CODE, ORDINANCES AND AMENDMENTS, OTHER REFERENCED CODES AND WITH THE AMERICANS WITH DISABILITIES ACT.
3. ALL WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE RECOGNIZED NATIONAL AND INDUSTRY STANDARDS. CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE BEST ENGINEERING AND CONSTRUCTION PRACTICE.
4. THE MECHANICAL WORK IS SHOWN SCHEMATICALLY ON THE DRAWINGS TO INDICATE THE GENERAL SYSTEM ARRANGEMENT AND CONFIGURATION. ACTUAL ROUTING, INCLUDING ALL REQUIRED OFFSETS, TRANSITIONS, ETC, SHALL BE INCLUDED AS PART OF THE BASE BID.
5. THE WORK OF THIS CONTRACTOR SHALL INCLUDE COORDINATION WITH THE WORK OF ALL OTHER CONTRACTORS AND ALL REQUIREMENTS OF THE DRAWINGS.
6. THE WORK OF THIS CONTRACTOR SHALL INCLUDE COORDINATION WITH ALL MEP EXISTING CONDITIONS, MAKING PROBES AND CONFIRMATION OF EXISTING CONDITIONS.
7. ALL CONSTRUCTION MUST COMPLY WITH LOCAL CODES.
8. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DUCT DIMENSIONS WITHOUT LINING.

DEMOLITION NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING THE BID TO BECOME THOROUGHLY FAMILIAR WITH THE SITE AND FULLY UNDERSTAND THE INTENT AND SCOPE OF WORK AS INDICATED BY THESE DOCUMENTS AND AS REQUIRED TO PERFORM THE WORK IN ACCORDANCE WITH THE PHASING SCHEDULE AS ISSUED BY THE CONSTRUCTION MANAGER.
2. THE CONTRACTOR SHALL PERFORM NO DEMOLITION WORK PRIOR TO OBTAINING SPECIFIC WRITTEN DIRECTION TO PROCEED FROM THE DESIGNATED REPRESENTATIVE OF THE BUILDING. SPECIFIC WRITTEN APPROVAL MUST BE OBTAINED PRIOR TO CUTTING STEAM, CONDENSATE, OR WATER LINES, OR REMOVING CONTROL WIRING OR DEVICES, OR DEMOLISHING EQUIPMENT. SUBMIT A DEMOLITION SCHEDULE INDICATING REQUIRED APPROVALS. SUBMIT EACH APPROVAL REQUEST A MINIMUM OF TWO WEEKS PRIOR TO THE INTENDED START OF WORK TO COORDINATE ALL REQUIRED SYSTEM SHUTDOWNS.
3. THE CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK A THOROUGH INVESTIGATION OF THE EXISTING CONDITIONS. THE CONTRACTOR SHALL IDENTIFY TO THE BUILDING, AND TO THE ARCHITECT\ENGINEER, ANY PIPING, WIRING, EQUIPMENT, DEVICES, ETC., WHICH ARE NOT IDENTIFIED ON THE DEMOLITION DRAWINGS AS EITHER "TO REMAIN" OR "TO BE REMOVED". ANY UNIDENTIFIED CONDUIT, WIRING, DUCTWORK, PIPING OR EQUIPMENT THAT IS EXPOSED OR DISCOVERED DURING THE CONSTRUCTION PERIOD SHALL BE THOROUGHLY INVESTIGATED BY THE CONTRACTOR TO DETERMINE WHAT SPACE OR EQUIPMENT IT SERVES.
4. WHERE ANY EXISTING SERVICES, SYSTEMS, COMPONENTS, OR DEVICES INTERFERE WITH THE DEMOLITION OR REMOVAL PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND, UPON WRITTEN APPROVAL FROM THE BUILDING, SHALL ALTER OR REROUTE AS NECESSARY AND AS APPROVED SUCH EXISTING CONDITIONS AS REQUIRED TO FACILITATE THE REMOVAL PROCESS.
5. ANY UNAUTHORIZED ALTERATIONS TO THE EXISTING SYSTEMS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE BUILDING AT THE CONTRACTOR'S EXPENSE.
6. ALL UNUSED DUCTWORK, HANGERS, AND SUPPORTS SHALL BE COMPLETELY REMOVED.
7. ALL WALL, FLOOR AND CEILING OPENINGS SHALL BE PROPERLY PATCHED, SEALED AND FIRESTOPPED TO MAINTAIN THE INTEGRITY OF ALL REQUIRED FIRE RATINGS. MATCH OR "LIKE NEW" AS APPROVED BY THE BUILDING.

FACILITY NOTES

1. THE BUILDING SHALL BE CONSIDERED A FACILITY THAT OPERATES CONTINUOUSLY 24 HOURS A DAY/365 DAYS A YEAR. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING ON ANY SHUTDOWNS REQUIRED TO PERFORM THE WORK. ANY DISRUPTIVE WORK SHOULD BE SCHEDULE DURING OFF-PEAK HOURS, AND ANY PLANNED SYSTEM INTERRUPTIONS SHOULD BE COORDINATED A MINIMUM OF THE ONE WEEK IN ADVANCE (SEE NOTE #8 FOR ADDITIONAL INFORMATION).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY EXISTING ARCHITECTURE, GENERAL CONSTRUCTION, EQUIPMENT AND ASSOCIATED ACCESSORIES TO REMAIN. ANY PROTECTION THAT WAS TEMPORARILY INSTALLED SHALL BE REMOVED AT THE COMPLETION OF ALL WORK, ONLY AFTER INSPECTION AND ACCEPTANCE FROM THE SHELTER. ANY DAMAGE THAT MAY HAVE OCCURRED DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR/REPLACE AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEANING TO THE AREA OF WORK AND EQUIPMENT TO MATCH ITS ORIGINAL CONDITION. COORDINATE WITH THE SHELTER TO RESTORE THE SPACES TO THEIR PREVIOUS CONDITION PRIOR TO CONSTRUCTION.
3. ALL FIRE PROTECTION SYSTEMS SHALL REMAIN ACTIVE DURING CONSTRUCTION OR TEMPORARY PROVISIONS PROVIDED. PROTECT FIRE PROTECTION PIPING SYSTEMS FROM DAMAGE DURING CONSTRUCTION. IF NECESSARY, COORDINATE WITH THE BUILDING FOR ANY REQUIRED SHUTDOWNS. ANY REPAIR REQUIRED TO THE FIRE SPRINKLER SYSTEM FROM DAMAGE DUE TO CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. ALL LIGHTING SYSTEMS TO REMAIN SHALL REMAIN ACTIVE DURING CONSTRUCTION OR TEMPORARY PROVISIONS PROVIDED. UPON REMOVING LUMINAIRES TO REMAIN IN ORDER TO PERFORM THE WORK, PROTECT AND STORE ON SITE FROM DAMAGE DURING CONSTRUCTION. IF NECESSARY, COORDINATE WITH THE BUILDING FOR ANY REQUIRED SHUTDOWNS. ANY ADDITIONAL LIGHTING REQUIRED DURING CONSTRUCTION TO PERFORM WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ANY REPAIR OR REPLACEMENT REQUIRED TO LIGHTING FROM DAMAGE DUE TO CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. FIELD VERIFICATION BY THE ENGINEER WAS REQUIRED. CONTRACTOR SHALL FIELD VERIFY ALL SIZES AND DIMENSIONS.
6. SECURITY: ALL CONTRACTORS MUST PROVIDE 24 HOUR NOTICE TO FACILITY PRIOR TO WORK WITH THE NAMES OF ANY INDIVIDUALS THAT WILL BE PRESENT. AN OEM OR DCAS EMPLOYEE MUST BE WITH ALL CONTRACTORS AT ALL TIMES.
7. LOADING DOCK: THERE IS A LOADING DOCK AVAILABLE TO ACCEPT ANY EQUIPMENT AS NECESSARY. CONTRACTOR TO OBTAIN PERMISSION TO USE AS A PARKING SPOT FOR A WORK VAN WITH THE UNDERSTANDING THAT THE CONTRACTOR MIGHT NEED TO MOVE IT IMMEDIATELY UPON REQUEST.
8. SCHEDULING/COORDINATION: ANY WORK THAT WILL HAVE A DIRECT IMPACT ON BUILDING OPERATIONS SHALL BE SCHEDULED DURING LOWER POPULATION TIME (I.E. NIGHTS AND WEEKENDS).
9. SCHEDULING/COORDINATION: DUE TO THE NATURE OF THE WORK AT THE FACILITY, IT MIGHT BE NECESSARY TO PUT ANY WORK ON HOLD AT ANY STAGE DURING CONSTRUCTION. THE CONTRACTOR MAY HAVE TO RESTORE ANY SYSTEMS THAT ARE OFFLINE TO FUNCTIONAL AND THE FACILITY WILL CONTACT THEM WHEN THERE IS A RETURN TO NORMAL OPERATION. THIS WILL ONLY BE REQUESTED IN THE EVENT OF A LARGE SCALE ACTIVATION OF OUR EMERGENCY OPERATIONS CENTER ON THE THIRD FLOOR AND ONLY IF THERE IS AN IMPACT ON THE OPERATION.
10. STORAGE: VERY LIMITED STORAGE WILL BE AVAILABLE FOR THE CONTRACTOR. A LIMITED AMOUNT OF TOOLS OR SUPPLIES CAN BE HELD IF NECESSARY; THE FACILITY IS NOT RESPONSIBLE FOR SECURING SUCH ITEMS.
11. NO WORK SHALL CAUSE ANY DISTURBANCES TO OCCUPIED SPACES. IF DISRUPTIVE WORK IS REQUIRED, IT SHALL BE COORDINATED WITH THE BUILDING IN ADVANCE AND PERFORMED OFF HOURS AT NO ADDITIONAL COST TO THE CITY.

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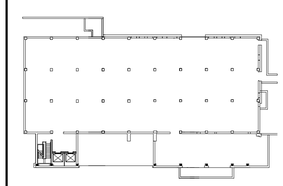
NO.	ISSUE / REVISION	DATE
01	DESIGN DEVELOPMENT	02/13/2015
02	100% CONSTRUCTION DOCUMENTS	05/15/2015
03	100% CONSTRUCTION DOCUMENTS	07/08/2015
04	100% CONSTRUCTION DOCUMENTS	09/18/2015
05	100% CONSTRUCTION DOCUMENTS	11/13/2015
1	ADDENDUM #1	03/15/2016



DIVISION OF STRUCTURES
FMS ID: FMS ID - E14-0007
PROJECT
SITE B - OFFICE OF EMERGENCY MANAGEMENT (E14-0060)
165 CADMAN PLAZA EAST
BROOKLYN, NY 11201
FOR THE:
DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE
MECHANICAL DRAWING LIST, SCOPE OF WORK AND NOTES

DATE 11/13/2015	SCALE NTS
SEAL	PROJECT NO. B14.07130
	DRAWN BY CC
	CHECKED BY SC
	DRAWING NUMBER **M-100.00**
	SHEET 01 OF 14

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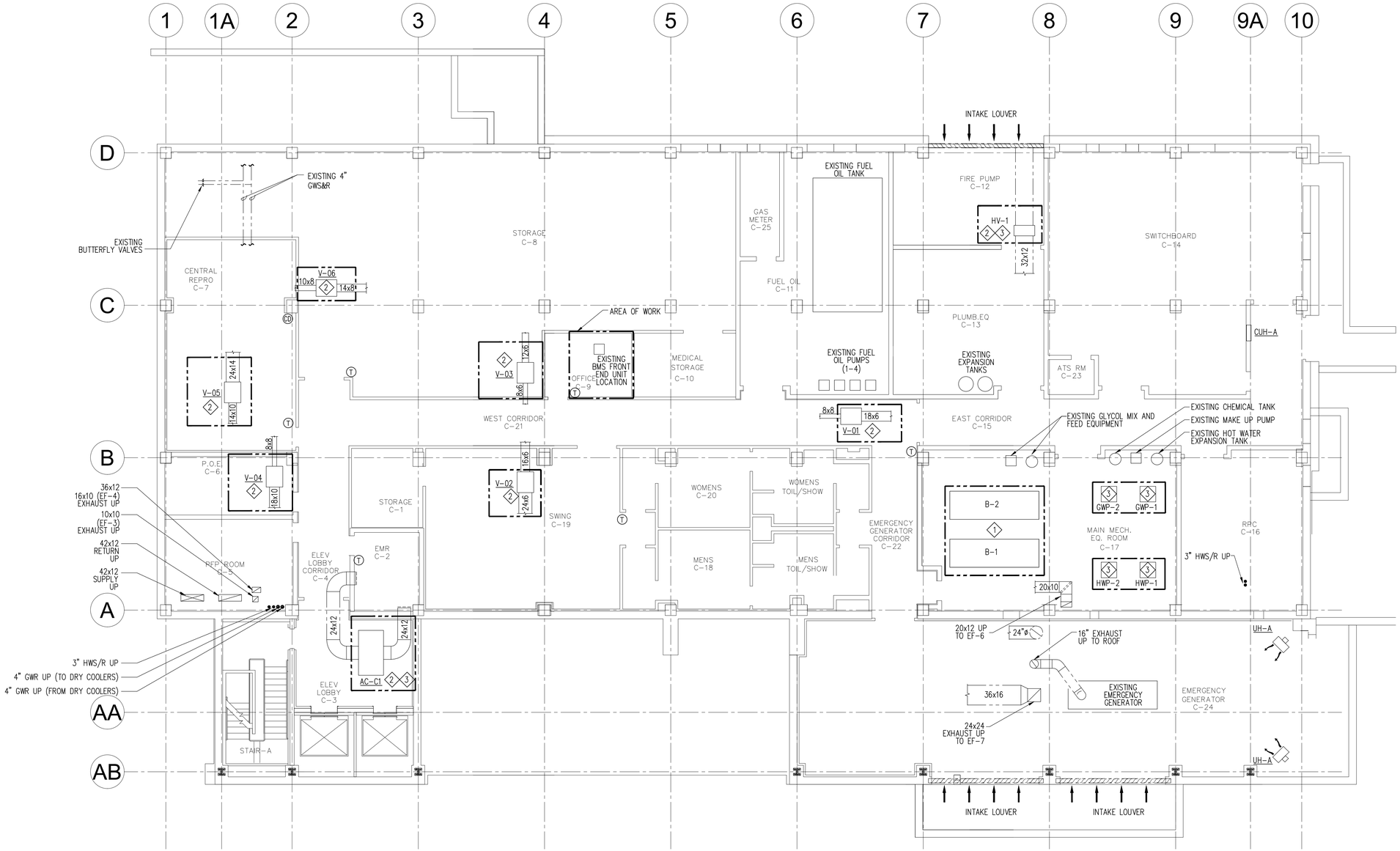

NEW WORK GENERAL NOTES:

1. REFER TO EXISTING SCHEDULES ON SHEET M-700.00 FOR EXISTING EQUIPMENT INFORMATION.
2. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS IN SPACES, HOT WATER SYSTEM, AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS IN THE M-500.00 SERIES DRAWINGS.
3. NOT USED. 1

NEW WORK KEYED NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL NEW BUILDING MANAGEMENT SYSTEM CONTROLLED HOT WATER RESET CONTROL VIA 3-WAY HOT WATER INJECTION VALVE – COORDINATE WITH CONTROLS DRAWINGS. 1
2. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS, FANS, AND AIR HANDLING UNITS TO VALUES INDICATED ON FLOOR PLANS, SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.
3. REBALANCE EXISTING PUMPS AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.
4. NOT USED.

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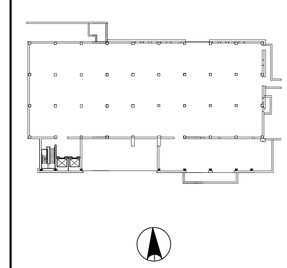
05	100% CONSTRUCTION DOCUMENTS	11/13/2015
1	ADDENDUM #1	03/15/2016



DIVISION OF STRUCTURES
FMS ID: FMS ID - E14-0007
PROJECT
SITE B - OFFICE OF EMERGENCY MANAGEMENT (E14-0060)
165 CADMAN PLAZA EAST
BROOKLYN, NY 11201
FOR THE:
DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE
MECHANICAL
BASEMENT FLOOR PLAN

DATE 11/13/2015	SCALE 1/8"=1'-0"
SEAL	PROJECT NO. B14.07130
	DRAWN BY CC
	CHECKED BY SC
	DRAWING NUMBER **M-300.00**
	SHEET 03 OF 14

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NEW WORK GENERAL NOTES:

1. REFER TO EXISTING SCHEDULES ON SHEET M-700.00 FOR EXISTING EQUIPMENT INFORMATION.
2. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS IN SPACES, HOT WATER SYSTEM, AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS IN THE M-500.00 SERIES DRAWINGS.
3. NOT USED.

1

NEW WORK KEYED NOTES:

1. NOT USED.
2. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS, FANS, AND AIR HANDLING UNITS TO VALUES INDICATED ON FLOOR PLANS, SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.
3. REBALANCE EXISTING PUMPS AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.

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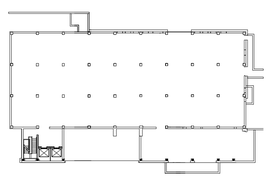
1	ADDENDUM #1	03/15/2016



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FMS ID: FMS ID - E14-0007
PROJECT

SITE B - OFFICE OF EMERGENCY MANAGEMENT (E14-0060)
165 CADMAN PLAZA EAST
BROOKLYN, NY 11201

FOR THE:
DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE
MECHANICAL
FIRST FLOOR PLAN

DATE 11/13/2015	SCALE 1/8"=1'-0"
SEAL	PROJECT NO. B14.07130
	DRAWN BY CC
	CHECKED BY SC
	DRAWING NUMBER M-301.00
	SHEET 04 OF 14

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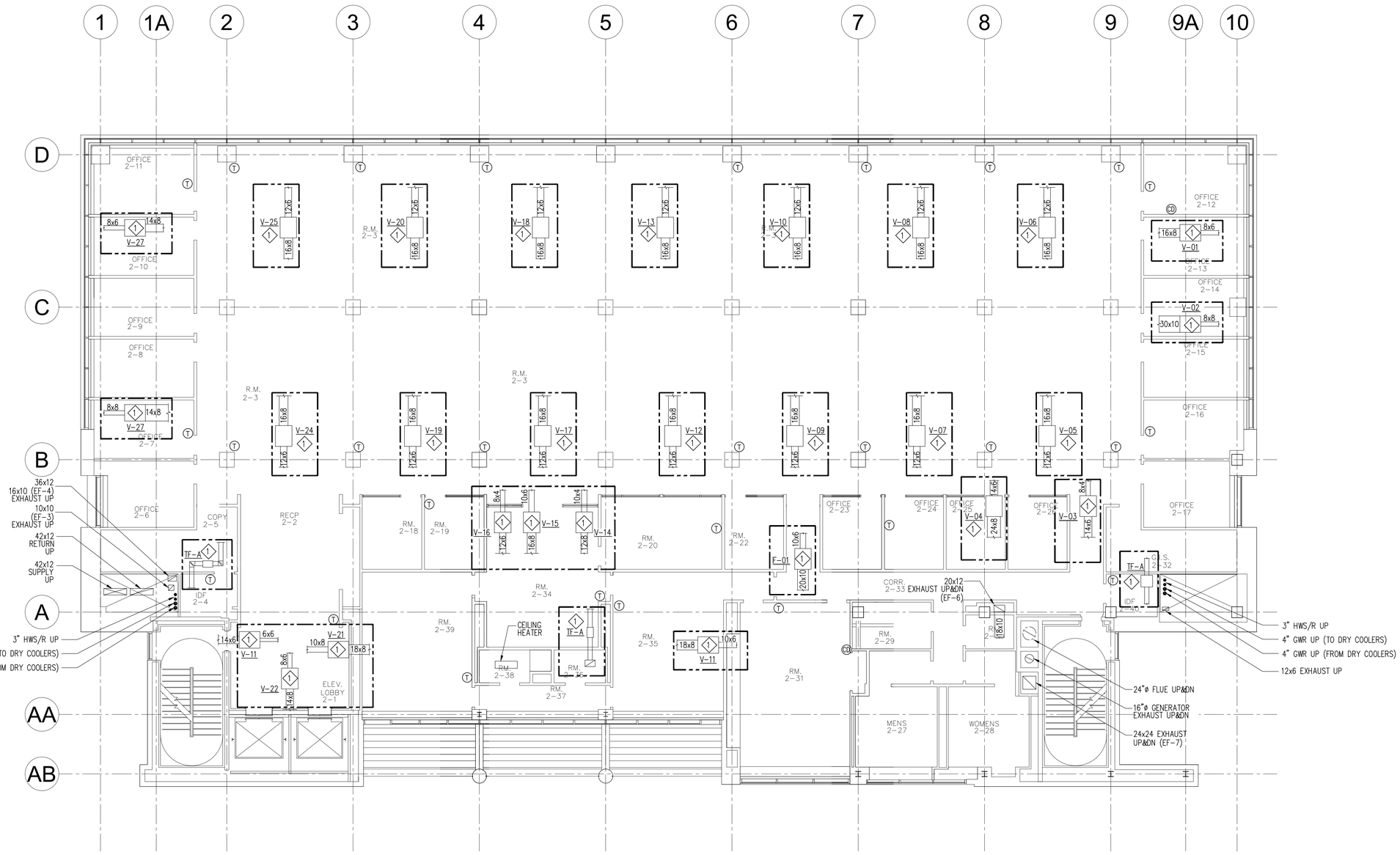

NEW WORK GENERAL NOTES:

1. REFER TO EXISTING SCHEDULES ON SHEET M-700.00 FOR EXISTING EQUIPMENT INFORMATION.
2. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS IN SPACES, HOT WATER SYSTEM, AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS IN THE M-500.00 SERIES DRAWINGS.
3. NOT USED.

1

NEW WORK KEYED NOTES:

1 REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS, FANS, AND AIR HANDLING UNITS TO VALUES INDICATED ON FLOOR PLANS, SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.

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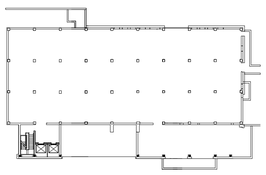

DIVISION OF STRUCTURES
FMS ID: FMS ID - E14-0007
PROJECT

SITE B - OFFICE OF EMERGENCY MANAGEMENT (E14-0060)

165 CADMAN PLAZA EAST
BROOKLYN, NY 11201

FOR THE:
DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE
MECHANICAL
SECOND FLOOR PLAN

DATE 11/13/2015	SCALE 1/8"=1'-0"
SEAL	PROJECT NO. B14.07130
	DRAWN BY CC
	CHECKED BY SC
	DRAWING NUMBER M-302.00
	SHEET 05 OF 14

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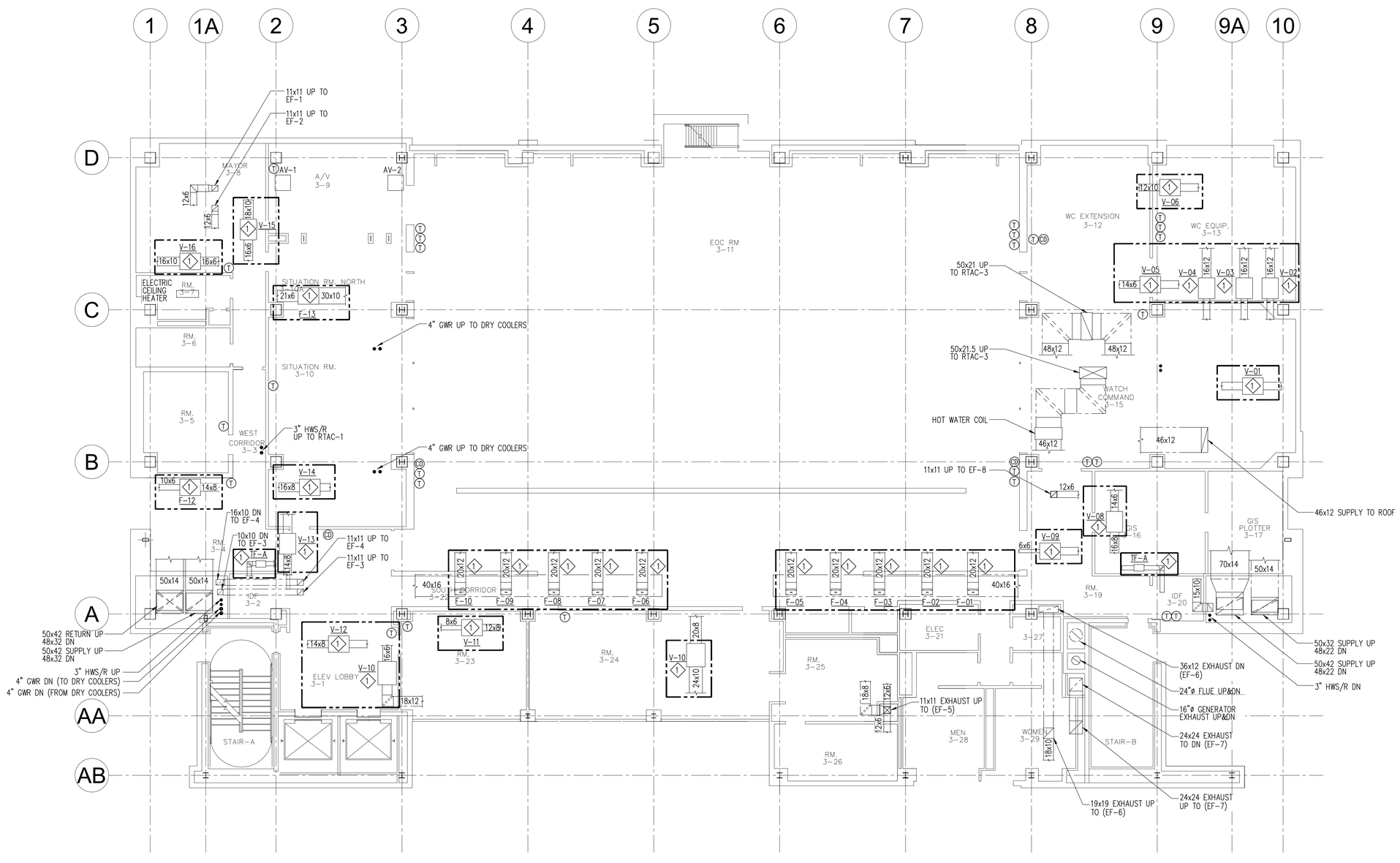

NEW WORK GENERAL NOTES:

1. REFER TO EXISTING SCHEDULES ON SHEET M-700.00 FOR EXISTING EQUIPMENT INFORMATION.
2. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS IN SPACES, HOT WATER SYSTEM, AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS IN THE M-500.00 SERIES DRAWINGS.
3. NOT USED.

1

NEW WORK KEYED NOTES:

1. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS, FANS, AND AIR HANDLING UNITS TO VALUES INDICATED ON FLOOR PLANS, SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.

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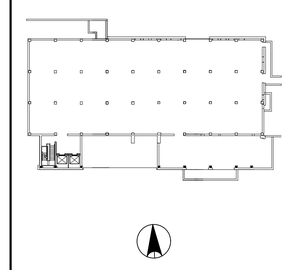

DIVISION OF STRUCTURES
FMS ID: FMS ID - E14-0007
PROJECT
SITE B - OFFICE OF EMERGENCY MANAGEMENT (E14-0060)
165 CADMAN PLAZA EAST
BROOKLYN, NY 11201
FOR THE:
DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE
MECHANICAL
THIRD FLOOR PLAN

DATE 11/13/2015	SCALE 1/8"=1'-0"
SEAL	PROJECT NO. B14.07130
	DRAWN BY CC
	CHECKED BY SC
	DRAWING NUMBER **M-303.00**
	SHEET 06 OF 14

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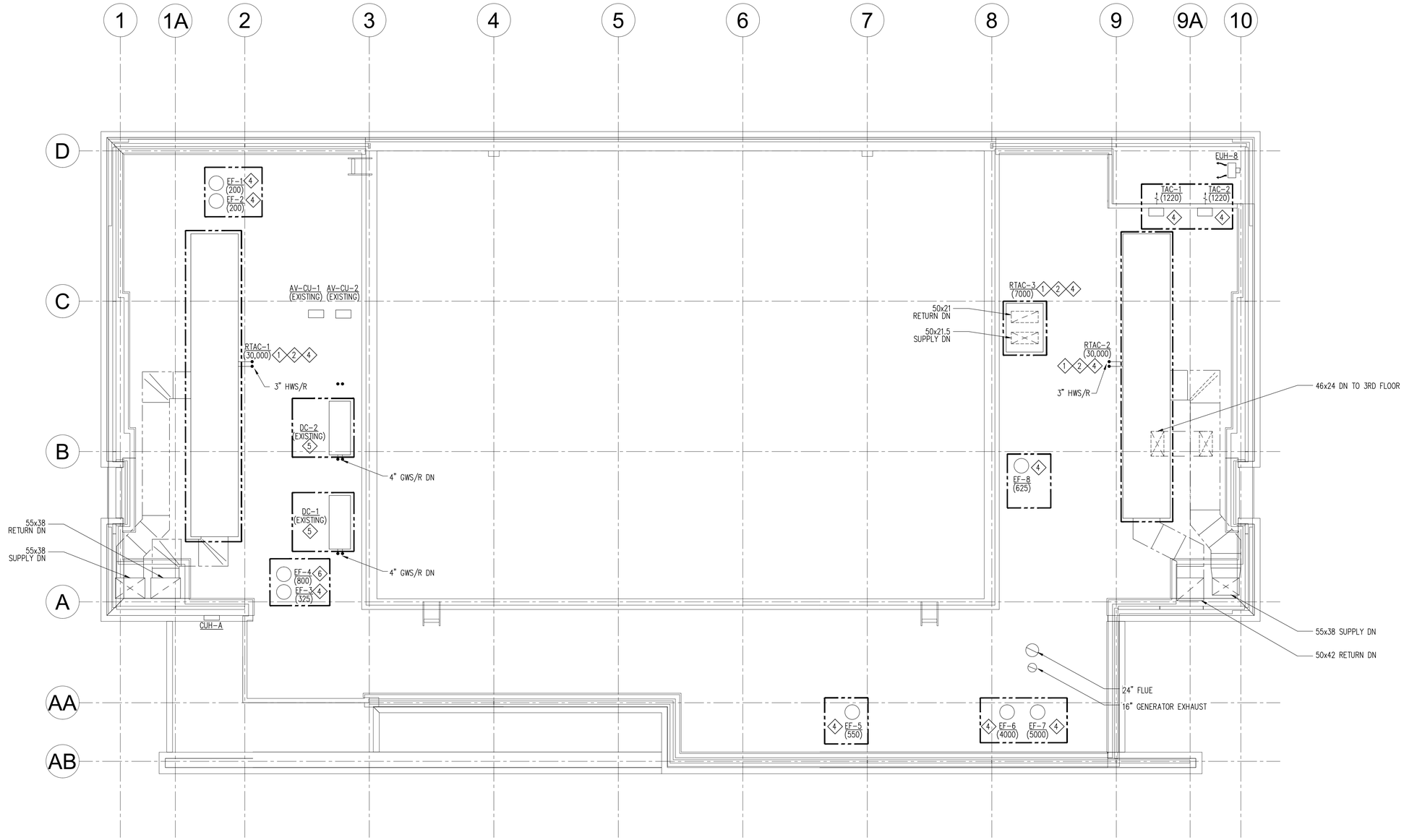

NEW WORK GENERAL NOTES:

1. REFER TO EXISTING SCHEDULES ON SHEET M-700.00 FOR EXISTING EQUIPMENT INFORMATION.
2. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS IN SPACES, HOT WATER SYSTEM, AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS IN THE M-500.00 SERIES DRAWINGS.
3. NOT USED. 1
4. REPROGRAM EXISTING SEQUENCE FOR ROOFTOP UNIT DISCHARGE. REFER TO CONTROLS DRAWINGS IN THE M-800 SERIES DRAWINGS FOR MORE INFORMATION

NEW WORK KEYED NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL NEW STATIC PRESSURE SENSORS FOR ROOF TOP UNITS INTEGRATED TO THE BUILDING MANAGEMENT SYSTEM.
2. CONTRACTOR TO SURVEY AND RECALIBRATE OUTDOOR AIR DAMPER ACTUATORS FOR ROOFTOP AC UNITS. CONTRACTOR TO SURVEY AND TEST EXISTING PRIMARY OUTDOOR AIR CARBON DIOXIDE SENSOR FOR CORRECT OPERATION. EXISTING SENSORS THAT HAVE FAILED SHOULD BE RECALIBRATED IF POSSIBLE, 1
3. NOT USED.
4. REBALANCE ALL EXISTING TERMINAL DEVICES/AIR OUTLETS, FANS, AND AIR HANDLING UNITS TO VALUES INDICATED ON FLOOR PLANS, SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.
5. REBALANCE EXISTING PUMPS AND GLYCOL LOOP TO VALUES INDICATED ON SCHEDULES ON SHEET M-700.00 AND RISER DIAGRAMS ON M-500.00 SERIES DRAWINGS.
6. SHUTDOWN EF-4 AND DISCONNECT FROM EXISTING POWER. FAN NO LONGER IN USE, COORDINATE WITH BUILDING MANAGEMENT.

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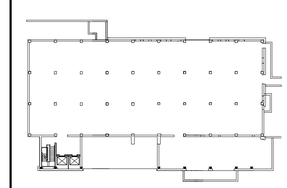
NO.	ISSUE / REVISION	DATE
01	DESIGN DEVELOPMENT	02/13/2015
02	100% CONSTRUCTION DOCUMENTS	05/15/2015
03	100% CONSTRUCTION DOCUMENTS	07/08/2015
04	100% CONSTRUCTION DOCUMENTS	09/18/2015
05	100% CONSTRUCTION DOCUMENTS	11/13/2015
1	ADDENDUM #1	03/15/2016



DIVISION OF STRUCTURES

FMS ID: FMS ID - E14-0007

PROJECT

SITE B - OFFICE OF EMERGENCY MANAGEMENT (E14-0060)

165 CADMAN PLAZA EAST
BROOKLYN, NY 11201

FOR THE:

DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE

MECHANICAL ROOF PLAN

DATE	SCALE
11/13/2015	1/8"=1'-0"

SEAL

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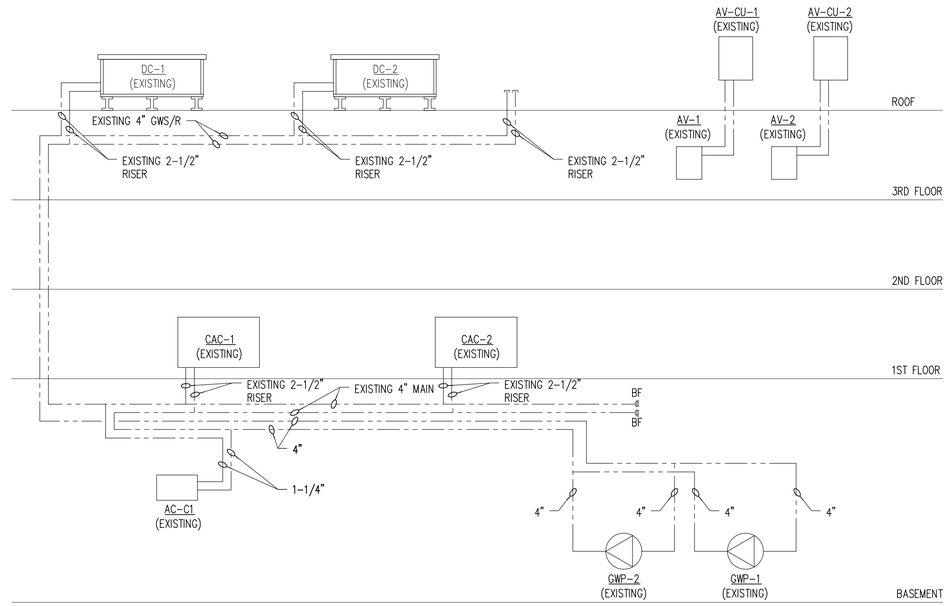
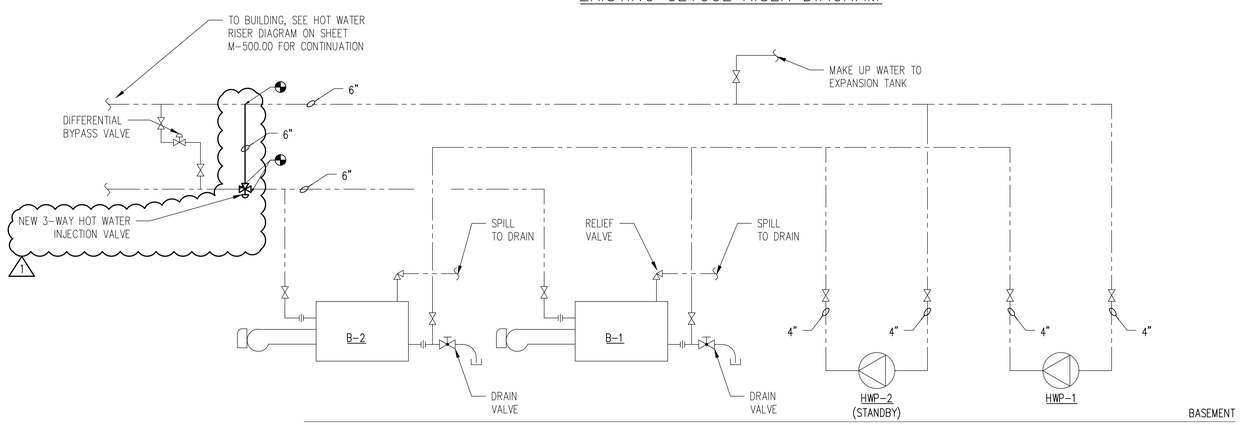
PROJECT NO.	B14.07130
DRAWN BY	CC
CHECKED BY	SC
DRAWING NUMBER	M-304.00
SHEET	07 OF 14



EXISTING GLYCOL RISER DIAGRAM



EXISTING HOT WATER RISER DIAGRAM

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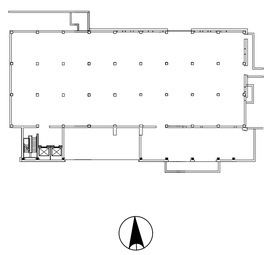

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PROJECT
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FOR THE:
DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE
MECHANICAL GLYCOL AND HOT WATER FLOW DIAGRAMS

DATE 11/13/2015	SCALE NTS
SEAL	PROJECT NO. B14.07130
	DRAWN BY CC
	CHECKED BY SC
	DRAWING NUMBER **M-501.00**
	SHEET 09 OF 14

STATE OF NEW YORK
JOSEPH DELROSSO
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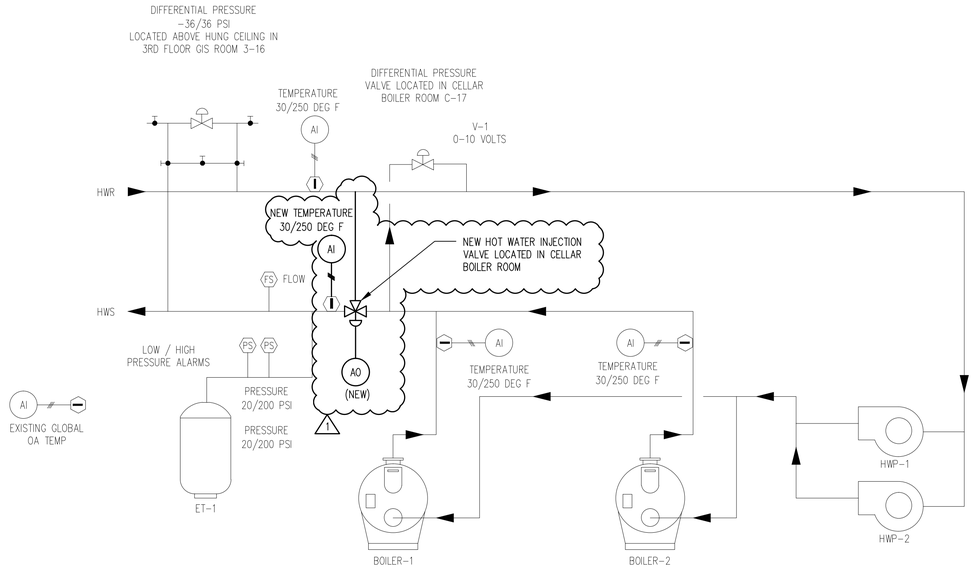


EXISTING HOT WATER SYSTEM

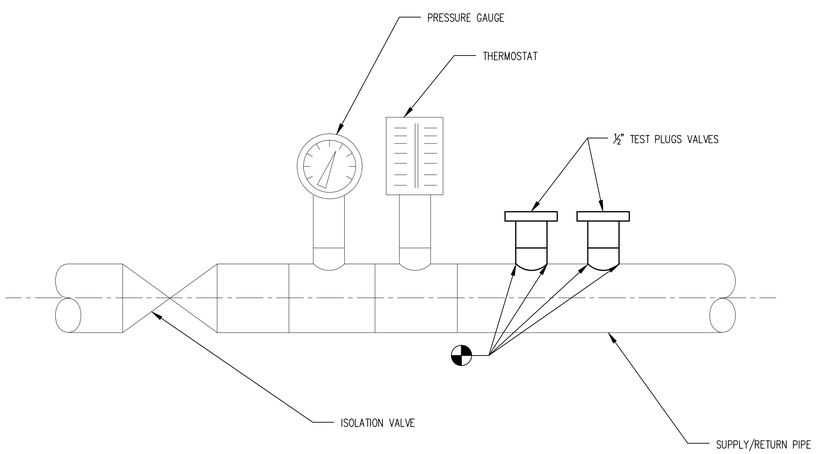
THE EXISTING UNIT SHALL OPERATE PER EXISTING SEQUENCES. NEW WORK TO BE IMPLEMENTED AS DESCRIBED BELOW:

1. THE HOT WATER SYSTEM SHALL BE CALLED TO START WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 55°F (ADJ.)
2. PROVIDE ADJUSTABLE HOT WATER RESET SCHEDULE BY BMCS SET AS FOLLOWS (ADJ.):
   a.

OAT	HWST
0	190
45	170

   b. HOT WATER SETBACK SHALL BE CONTROLLED BY MODULATING, 3-WAY HOT WATER INJECTION VALVE TO VARY THE USE OF HOT WATER SUPPLY.

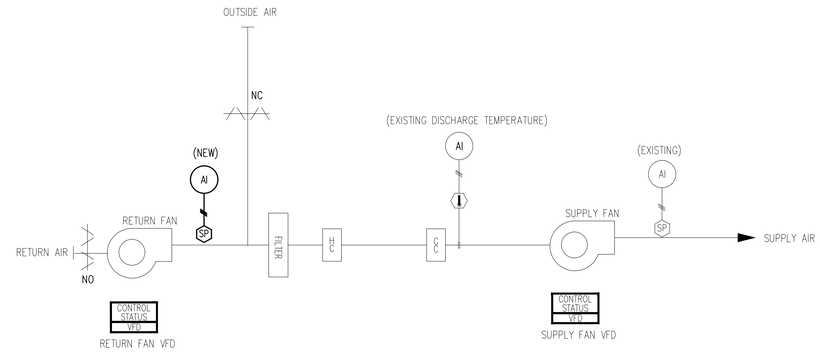
1



NOTE:
PROVIDE AND INSTALL WHERE NECESSARY PLUG VALVES TO TEST AND BALANCING EQUIPMENT, WHERE EXISTING TEST PLUGS DO NOT EXIST.

TEST PLUG VALVES DETAIL

NOT TO SCALE



EXISTING ROOF TOP AC UNITS (RTAC-1, RTAC-2 AND RTAC-3)

THE EXISTING UNIT SHALL OPERATE PER EXISTING SEQUENCES. NEW WORK TO BE IMPLEMENTED AS DESCRIBED BELOW:

NORMAL OPERATION – AUTO MODE:

WHEN THE OPERATOR SELECTABLE "SUMMER-WINTER-AUTO" SOFTWARE SELECTOR IS COMMANDED INTO THE "AUTO" POSITION, A DDC SOFTWARE PROGRAM MONITORS THE OUTDOOR AIR TEMPERATURE AND SELECTS EITHER THE "SUMMER" OR "WINTER" MODE. WHEN THE TEMPERATURE IS LESS THAN 55°F (ADJ.), THE PROGRAM SELECTS THE "WINTER" MODE. WHEN THE TEMPERATURE IS ABOVE 60°F (ADJ.), THE PROGRAM SELECTS THE "SUMMER" MODE. ON SELECTING A MODE, THE DDC CONTROLLER POSITIONS THE DAMPERS AND VALVES AS DESCRIBED ABOVE.

COOLING DISCHARGE TEMPERATURE:

RESET THE UNIT DISCHARGE TEMPERATURE TO 52.5°F (ADJ.) WHEN THE OUTDOOR AIR HUMIDITY LEVEL IS GREATER THAN 45%.

FAN CAPACITY CONTROL:

PROVIDE AND INSTALL NEW STATIC PRESSURE SENSOR IN RETURN FAN SECTION, INPUT INTO UNIT CONTROLLER. THE CONTROLLER OUTPUT SHALL MODULATE THE RETURN FAN VFD TO MAINTAIN A POSITIVE PRESSURE DIFFERENTIAL OF 10% (ADJ.) BETWEEN SUPPLY AND RETURN FANS.

THE FOLLOWING INPUT/OUTPUT POINTS ARE TO BE PROVIDED VIA A BACNET COMMUNICATION INTERFACE TO THE AIR CONDITIONING UNIT CONTROLLER OR VIA A HARWIRED INTERCONNECTION TO THE DDC SYSTEM AS LISTED BELOW.

ANALOG INPUTS (AI)

RETURN FAN STATIC PRESSURE (BACNET)

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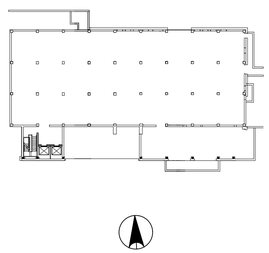

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BROOKLYN, NY 11201
FOR THE:
DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

DRAWING TITLE
MECHANICAL
CONTROLS AND SEQUENCES
(SHEET 2 OF 2)

DATE	SCALE
11/13/2015	NTS

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