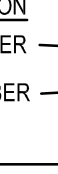
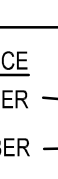
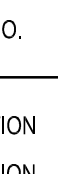












DETAIL CALLOUT DETAIL NUMBER DRAWING NUMBER	
EXTERIOR ELEVATION ELEVATION NUMBER DRAWING NUMBER	
INTERIOR ELEVATION ELEVATION NUMBER DRAWING NUMBER	
SECTION REFERENCE SECTION NUMBER DRAWING NUMBER	
COLUMN NO.	
REFERENCE LINE NO.	
LOCATION ELEVATION	
ROOM NUMBER	
DOOR NO. NEW	203.2
DOOR NO. EXISTING	203.1X
NOMINAL THICKNESS	
CONSTRUCTION TYPE	
SPECIAL CONDITION	
KEYNOTE IDENTIFICATION	
WINDOW TYPE IDENTIFICATION	
TOILET ACCESSORY IDENTIFICATION	
SPOT ELEVATION	

## B. MISCELLANEOUS AND DEMOLITION NOTES

- ## DRAFTING SYMBOLS AND MATERIALS LEGEND

DETAIL CALLOUT DETAIL NUMBER DRAWING NUMBER	
EXTERIOR ELEVATION ELEVATION NUMBER DRAWING NUMBER	
INTERIOR ELEVATION ELEVATION NUMBER DRAWING NUMBER	
SECTION REFERENCE SECTION NUMBER DRAWING NUMBER	
COLUMN NO.	
REFERENCE LINE NO.	
LOCATION ELEVATION	
ROOM NUMBER	
DOOR NO. NEW	203.2
DOOR NO. EXISTING	203.1X
NOMINAL THICKNESS	
CONSTRUCTION TYPE	
SPECIAL CONDITION	
KEYNOTE IDENTIFICATION	
WINDOW TYPE IDENTIFICATION	
TOILET ACCESSORY IDENTIFICATION	
SPOT ELEVATION	

FIRE-RATING	
1-HOUR	2-HOUR
	CONCRETE
	BRICK MASONRY IN PLAN
	CONCRETE MASONRY IN PLAN (RUNNING BOND)
	CONCRETE MASONRY IN PLAN (STACK BOND)
	STONE MASONRY IN PLAN
	RAKED JOINT IN PLAN CTRL. EXP. JOINT IN PLAN
	BRICK MASONRY IN SECTION DETAIL
	CONCRETE MASONRY IN SECTION DETAIL
	STONE MASONRY IN SECTION DETAIL
	STEEL IN SECTION DETAIL
	DISCONTINUOUS ROUGH WOOD BLOCKING IN SECTION
	CONTINUOUS ROUGH WOOD FRAMING BLOCKING IN SECTION
	FINISHED WOOD IN SECTION DETAIL
	RIGID BOARD INSULATION
	RIGID BOARD INSULATION (ROOFING)
	BATT INSULATION
	GYPSON BOARD
	ACOUSTICAL CEILING PANEL
	BITUMINOUS CONCRETE (ASPHALT) PAVING IN SECTION
	AGGREGATE BALLAST FILL OR BACKFILL IN SECTION
	UNDISTURBED EARTH
	EARTH BACKFILL

PROJECT	
OWNER	
ARCHITECT/ ENGINEER	

**CITY OF AURORA  
44 E. DOWNER PLACE  
AURORA, ILLINOIS 60505**

## REQUIRED CODE COMPLIANCE INFORMATION

G100	COVER SHEET, GENERAL NOTES, SYMBOLS AND DRAWING INDEX
M205	BASEMENT MECHANICAL DEMOLITION PLAN
M210	FIRST FLOOR MECHANICAL DEMOLITION PLAN
M220	SECOND FLOOR MECHANICAL DEMOLITION PLAN
M305	BASEMENT MECHANICAL PLAN
M310	FIRST FLOOR MECHANICAL PLAN
M320	SECOND FLOOR MECHANICAL PLAN
M410	MECHANICAL SCHEDULES, CONTROLS AND DETAILS

## REQUIRED CODE COMPLIANCE INFORMATION

## APPLICABLE CODES

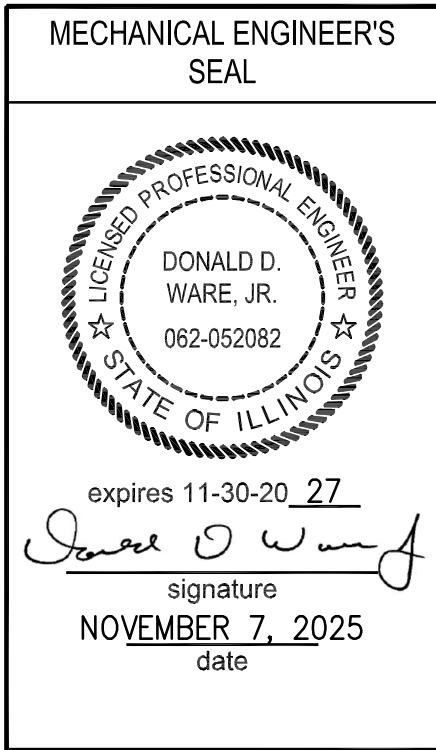
GENERAL STATEMENT OF OVERALL PROJECT SCOPE AND INTENT:

PROJECT CONSISTS OF THE REPLACEMENT OF DUAL DUCT BOXES AND PNEUMATIC CONTROLS ON THE DUAL DUCT BOXES WITH DIRECT DIGITAL CONTROLS. BUILDING COMPONENTS AND SYSTEMS MODIFIED OR REPLACED AS PART OF THE WORK OF THIS PROJECT HAVE BEEN BROUGHT UP TO MEET THE REQUIREMENTS OF THE APPLICABLE CURRENT CODES.

- A. USE AND OCCUPANCY GROUP(S) CLASSIFICATION: NOT APPLICABLE; NO CHANGE OF USE.
- B. TYPE OF CONSTRUCTION: UNKNOWN
- C. SQUARE FOOTAGE OF BUILDING: 20,900.  
ALLOWABLE SQUARE FOOTAGE: NOT APPLICABLE; NO CHANGE OF USE.  
FULLY SPRINKLERED; ALARMED
- D. OCCUPANT LOAD BASED ON INTERNATIONAL BUILDING CODE: NOT APPLICABLE
- E. OCCUPANT LOAD BASED ON ILLINOIS PLUMBING CODE: NOT APPLICABLE
- F. DESIGNED LIFE LOADS: NOT APPLICABLE; THIS IS AN EXISTING BUILDING, TO WHICH NO MODIFICATIONS ARE BEING MADE TO STRUCTURAL COMPONENTS.
- G. THE DESIGN PROFESSIONALS IN RESPONSIBLE CHARGE ARE IDENTIFIED IN THE SEALS AND CERTIFICATES AREA, BELOW.

## SEALS & CERTIFICATIONS

KLUBER, INC. ILLINOIS PROFESSIONAL  
DESIGN FIRM LICENSE #184-001284



"G" SERIES, "M" SERIES

THE MATERIALS, ABBREVIATIONS, AND DRAFTING SYMBOLS LEGEND ARE EACH AN ALL INCLUSIVE MASTER LIST USED BY THIS FIRM. THE INCLUSION OF THESE LEGENDS INTO THESE DOCUMENTS DOES NOT IMPLY THAT ALL THE SYMBOLS OR MATERIALS INCLUDED IN THESE LEGENDS ARE INCORPORATED INTO THIS PROJECT. ABBREVIATIONS MAY APPEAR WITH PERIODS OR OTHER PUNCTUATION SEPARATING CHARACTERS ON THE DRAWINGS; THE MEANING REMAINS THE SAME.

**CITY OF AURORA**  
**DEVELOPMENT SERVICES CENTER HVAC IMPROVEMENTS**  
77 S. BROADWAY AVENUE  
AURORA, ILLINOIS 60005

JOB NO. 25-130-162  
DRAWN DDW  
CHECKED JMI  
APPROVED DDW

**SHEET TITLE**

**OVER SHEET,  
GENERAL NOTES,  
SYMBOLS AND  
DRAWING INDEX**

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# G100

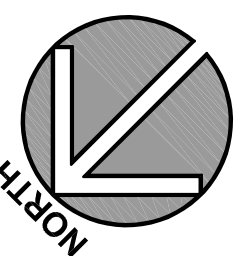
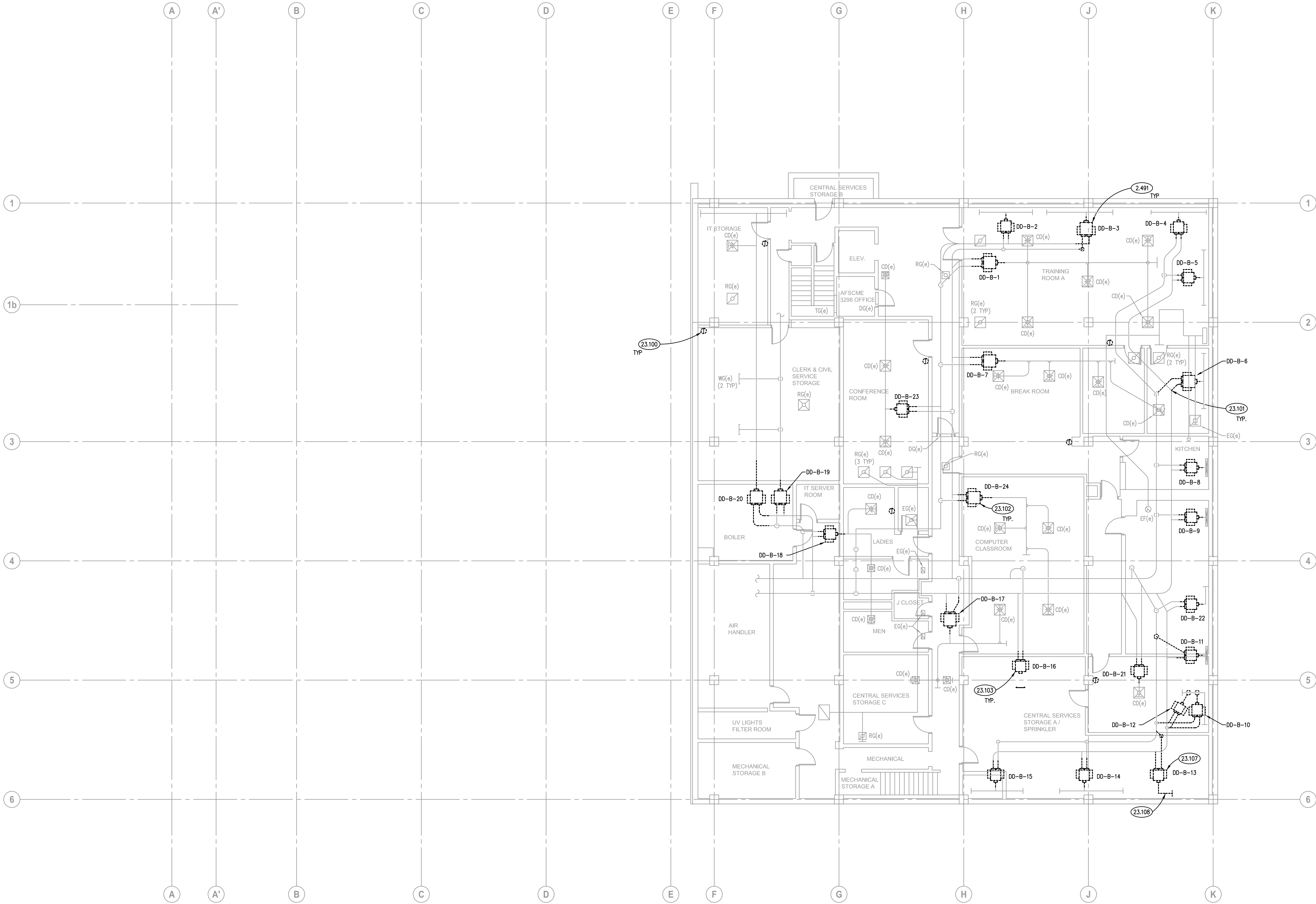
KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 2.491 TEMPORARILY REMOVE, STORE, PROTECT AND REINSTALL EXISTING ACOUSTICAL SPLINED LAY-IN CEILING TILES AND CONCEALED SUSPENDED GRID MEMBERS AS REQUIRED TO PERFORM THE PRIMARY WORK OF THE PROJECT AT DUAL DUCT BOX REPLACEMENT. PROVIDE NEW COMPONENTS TO REPLACE COMPONENTS DAMAGED DURING REMOVAL, STORAGE AND REINSTALLATION OPERATIONS; MATCH APPEARANCE OF EXISTING COMPONENTS.
- 23.100 REMOVE EXISTING THERMOSTAT, REMOVE ALL ASSOCIATED COMPRESSED AIR PIPING BACK TO MAIN AND CAP AIR-TIGHT, FIELD VERIFY ALL THERMOSTAT LOCATIONS.
- 23.101 CAP AND INSULATE EXISTING SUPPLY DUCTWORK NOT BEING RECONNECTED.
- 23.102 REMOVE DUAL DUCT BOX AND SECTIONS OF DUCTWORK AS REQUIRED FOR INSTALLATION OF NEW DUAL DUCT BOX.
- 23.103 PROVIDE PRE-CONSTRUCTION AIR VOLUME READINGS FOR DUAL DUCT BOX COLD DUCT CFM, HOT DUCT CFM, AND DISCHARGE CFM. SUBMIT PRE-CONSTRUCTION AIR VOLUME READINGS TO ENGINEER.
- 23.107 REMOVE DUAL DUCT BOX AND ALL ASSOCIATED DUCTWORK, CAP HOT AND COLD DUCT TAKE-OFFS AT DUCT MAINS AND INSULATE.
- 23.108 PROVIDE INSULATED CAP ON DUCTS UP FOR LINEAR DIFFUSER ON FLOOR ABOVE.

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. ALL PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGRAMMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
3. EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND SIZES.
4. ALL TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED ACCORDINGLY. ALL TAPES AND MASTICS USED TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS SHALL COMPLY WITH UL 181B AND MARKED ACCORDINGLY.
5. THERMOSTATIC CONTROLS OF EQUIPMENT SHALL HAVE A 5' F DEADBAND.
6. SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
7. COORDINATE CEILING REMOVAL AND RE-INSTALLATION WORK WITH ALL TRADES. REMOVE AND RE-INSTALL ANY CONFLICTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED TO COMPLETE THE WORK.
8. OBTAIN AND PAY ALL COSTS FOR LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.



BASEMENT MECHANICAL DEMOLITION PLAN

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

1

CITY OF AURORA  
DEVELOPMENT SERVICES CENTER HVAC IMPROVEMENTS

77 S. BROADWAY  
AURORA, ILLINOIS 60505

ISSUED - CONTINUED

ISSUED

JOB NO. 25-130-1627  
DRAWN AGJ  
CHECKED DDW  
APPROVED DDW

SHEET TITLE

BASEMENT  
MECHANICAL  
DEMOLITION PLAN

SHEET NUMBER

M205

## KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 2.491 TEMPORARILY REMOVE, STORE, PROTECT AND REINSTALL EXISTING ACOUSTICAL SPLINED LAY-IN CEILING TILES AND CONCEALED SUSPENDED GRID MEMBERS AS REQUIRED TO PERFORM THE PRIMARY WORK OF THE PROJECT AT DUAL DUCT BOX REPLACEMENT. PROVIDE NEW COMPONENTS TO REPLACE COMPONENTS DAMAGED DURING REMOVAL, STORAGE AND REINSTALLATION OPERATIONS; MATCH APPEARANCE OF EXISTING COMPONENTS.
- 23.100 REMOVE EXISTING THERMOSTAT. REMOVE ALL ASSOCIATED COMPRESSED AIR PIPING BACK TO MAIN AND CAP AIR-TIGHT. FIELD VERIFY ALL THERMOSTAT LOCATIONS.
- 23.101 CAP AND INSULATE EXISTING SUPPLY DUCTWORK NOT BEING RECONNECTED.
- 23.102 REMOVE DUAL DUCT BOX AND SECTIONS OF DUCTWORK AS REQUIRED FOR INSTALLATION OF NEW DUAL DUCT BOX.
- 23.103 PROVIDE PRE-CONSTRUCTION AIR VOLUME READINGS FOR DUAL DUCT BOX COLD DUCT CFM, HOT DUCT CFM, AND DISCHARGE CFM. SUBMIT PRE-CONSTRUCTION AIR VOLUME READINGS TO ENGINEER.
- 23.104 REMOVE, STORE, AND PROTECT EXISTING RETURN GRILLE FOR RE-INSTALLATION.

## GENERAL NOTES

- REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
- ALL PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
- EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND SIZES.
- ALL TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED ACCORDINGLY. ALL TAPES AND MASTICS USED TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS SHALL COMPLY WITH UL 181B AND MARKED ACCORDINGLY.
- THERMOSTATIC CONTROLS OF EQUIPMENT SHALL HAVE A 5' F DEADBAND.
- SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
- COORDINATE CEILING REMOVAL AND RE-INSTALLATION WORK WITH ALL TRADES. REMOVE AND RE-INSTALL ANY CONFLICTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED TO COMPLETE THE WORK.
- OBTAIN AND PAY ALL COSTS FOR LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.



## FIRST FLOOR MECHANICAL DEMOLITION PLAN

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

1

CITY OF AURORA  
DEVELOPMENT SERVICES CENTER HVAC IMPROVEMENTS77 S. BROADWAY  
AURORA, ILLINOIS 60005

ISSUED - CONTINUED

ISSUED  
11/07/25 BID & PERMIT DOCUMENTS

JOB NO.	25-130-1627
DRAWN	AGJ
CHECKED	DDW
APPROVED	DDW

SHEET TITLE

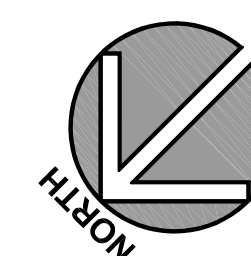
FIRST FLOOR  
MECHANICAL  
DEMOLITION PLAN

SHEET NUMBER

M210

**Kluber**  
Architects + Engineers

1000 N. WILSON AVENUE  
SUITE 200  
AURORA, ILLINOIS 60005  
TEL: 630.263.5213





KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

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- 23.100 REMOVE EXISTING THERMOSTAT, REMOVE ALL ASSOCIATED COMPRESSED AIR PIPING BACK TO MAIN AND CAP AIR-TIGHT. FIELD VERIFY ALL THERMOSTAT LOCATIONS.
- 23.101 CAP AND INSULATE EXISTING SUPPLY DUCTWORK NOT BEING RECONNECTED.
- 23.102 REMOVE DUAL DUCT BOX AND SECTIONS OF DUCTWORK AS REQUIRED FOR INSTALLATION OF NEW DUAL DUCT BOX.
- 23.103 PROVIDE PRE-CONSTRUCTION AIR VOLUME READINGS FOR DUAL DUCT BOX COLD DUCT CFM, HOT DUCT CFM, AND DISCHARGE CFM. SUBMIT PRE-CONSTRUCTION AIR VOLUME READINGS TO ENGINEER.
- 23.104 REMOVE, STORE, AND PROTECT EXISTING RETURN GRILLE FOR RE-INSTALLATION.
- 23.105 REMOVE AND PROTECT EXISTING SUPPLY DIFFUSER FOR RE-INSTALLATION.
- 23.106 ALL WORK WITHIN THE OUTLINED AREA OF THE SECOND FLOOR IS WORK ASSOCIATED WITH ALTERNATE BID PACKAGE NO 1.

GENERAL NOTES

- REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
- ALL PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
- EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND SIZES.
- ALL TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED ACCORDINGLY. ALL TAPES AND MASTICS USED TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS SHALL COMPLY WITH UL 181B AND MARKED ACCORDINGLY.
- THERMOSTATIC CONTROLS OF EQUIPMENT SHALL HAVE A 5' F DEADBAND.
- SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
- COORDINATE CEILING REMOVAL AND RE-INSTALLATION WORK WITH ALL TRADES. REMOVE AND RE-INSTALL ANY CONFLICTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED TO COMPLETE THE WORK.
- OBTAIN AND PAY ALL COSTS FOR LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.

CITY OF AURORA  
DEVELOPMENT SERVICES CENTER HVAC IMPROVEMENTS  
77 S. BROADWAY  
AURORA, ILLINOIS 60505

ISSUED - CONTINUED

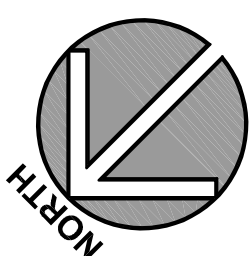
ISSUED  
11/07/25 BID & PERMIT DOCUMENTS

JOB NO. 25-130-1627  
DRAWN AGJ  
CHECKED DDW  
APPROVED DDW

SHEET TITLE  
SECOND FLOOR  
MECHANICAL  
DEMOLITION PLAN

SHEET NUMBER

M220



SECOND FLOOR MECHANICAL DEMOLITION PLAN

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

1

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- ## GENERAL NOTES

- CITY OF AURORA**  
**DEVELOPMENT SERVICES CENTER HVAC IMPROVEMENTS**  
77 S. BROADWAY  
AURORA, ILLINOIS 60505

[illegible]

**JOB NO.** 25-130-1627  
**DRAWN** AGJ  
**CHECKED** DDW  
**APPROVED** DDW

**SHEET TITLE**

**BASEMENT  
MECHANICAL PLAN**

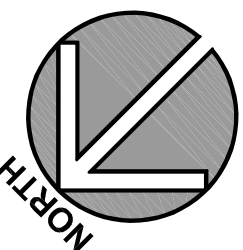
SHEET NUMBER

# M305

## 1

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

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES



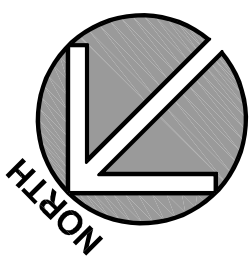
KEYNOTES

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- 23.200 PROVIDE HONEYWELL TR100 WALL MODULE THERMOSTAT.
- 23.201 PROVIDE NEW DUAL DUCT BOX. INSULATE ALL NEW INLET AND OUTLET DUCTWORK.
- 23.204 AIR BALANCE DUAL DUCT BOX TO PRE-CONSTRUCTION AIR VOLUME READINGS.
- 23.205 REINSTALL EXISTING RETURN GRILLE.

GENERAL NOTES

- REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
- ALL PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
- EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND SIZES.
- ALL TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED ACCORDINGLY. ALL TAPES AND MASTICS USED TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS SHALL COMPLY WITH UL 181B AND MARKED ACCORDINGLY.
- THERMOSTATIC CONTROLS OF EQUIPMENT SHALL HAVE A 5' F DEADBAND.
- SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
- COORDINATE CEILING REMOVAL AND RE-INSTALLATION WORK WITH ALL TRADES. REMOVE AND RE-INSTALL ANY CONFLICTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED TO COMPLETE THE WORK.
- OBTAIN AND PAY ALL COSTS FOR LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.



FIRST FLOOR MECHANICAL PLAN

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

1

CITY OF AURORA  
DEVELOPMENT SERVICES CENTER HVAC IMPROVEMENTS

77 S. BROADWAY  
AURORA, ILLINOIS 60005

ISSUED - CONTINUED

ISSUED  
11/07/25 BID & PERMIT DOCUMENTS

JOB NO. 25-130-1627  
DRAWN AGJ  
CHECKED DDW  
APPROVED DDW

SHEET TITLE

FIRST FLOOR  
MECHANICAL PLAN

SHEET NUMBER

M310

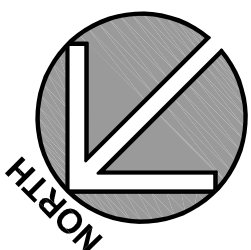
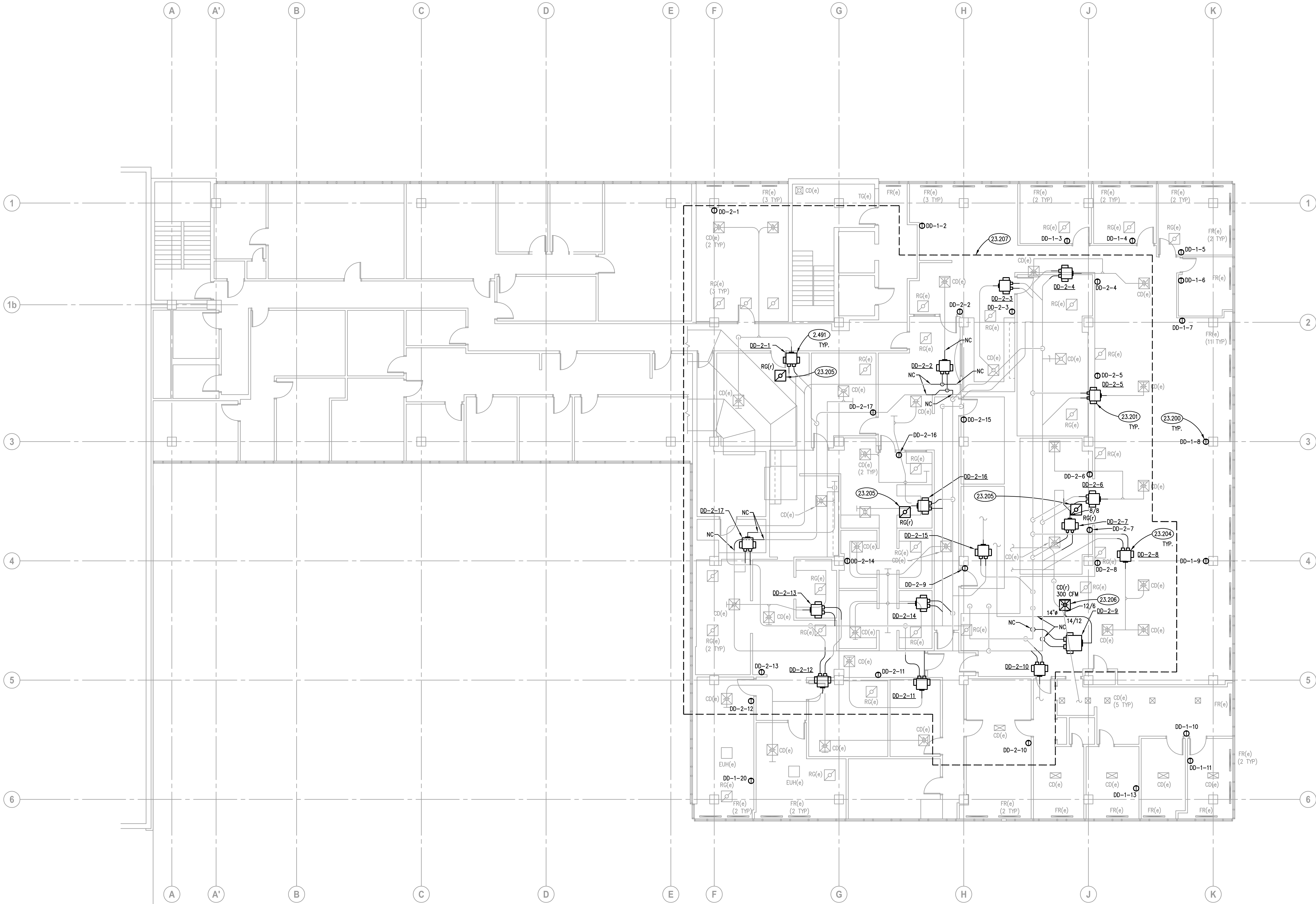
**KEYNOTES**

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- 2.491 TEMPORARILY REMOVE, STORE, PROTECT AND REINSTALL EXISTING ACOUSTICAL SPLINED LAY-IN CEILING TILES AND CONCEALED SUSPENDED GRID MEMBERS AS REQUIRED TO PERFORM THE PRIMARY WORK OF THE PROJECT AT DUAL DUCT BOX REPLACEMENT. PROVIDE NEW COMPONENTS TO REPLACE COMPONENTS DAMAGED DURING REMOVAL, STORAGE AND REINSTALLATION OPERATIONS; MATCH APPEARANCE OF EXISTING COMPONENTS.
- 23.200 PROVIDE HONEYWELL TR100 WALL MODULE THERMOSTAT.  
23.201 PROVIDE NEW DUAL DUCT BOX. INSULATE ALL NEW INLET AND OUTLET DUCTWORK.  
23.204 AIR BALANCE DUAL DUCT BOX TO PRE-CONSTRUCTION AIR VOLUME READINGS.  
23.205 REINSTALL EXISTING RETURN GRILLE.  
23.206 REINSTALL EXISTING SUPPLY DIFFUSER. AIR BALANCE TO INDICATED AIRFLOW.  
23.207 ALL WORK WITHIN THE ENCLOSED REGION OF THE SECOND FLOOR IS ALTERNATE BID PACKAGE #1.

**GENERAL NOTES**

- REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
- ALL PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGMAMMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
- EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND SIZES.
- ALL TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED ACCORDINGLY. ALL TAPES AND MASTICS USED TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS SHALL COMPLY WITH UL 181B AND MARKED ACCORDINGLY.
- THERMOSTATIC CONTROLS OF EQUIPMENT SHALL HAVE A 5" F DEADBAND.
- SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
- COORDINATE CEILING REMOVAL AND RE-INSTALLATION WORK WITH ALL TRADES. REMOVE AND RE-INSTALL ANY CONFLICTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED TO COMPLETE THE WORK.
- OBTAIN AND PAY ALL COSTS FOR LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.



**SECOND FLOOR MECHANICAL PLAN**

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

1



**CITY OF AURORA**  
**DEVELOPMENT SERVICES CENTER HVAC IMPROVEMENTS**  
77 S. BROADWAY  
AURORA, ILLINOIS 60505

MARK	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	INLET SIZE (IN)	MODEL	NOTES
DO-B-1	1450	290	10	3230	1, 2
DO-B-2	590	120	7	3230	1, 2
DO-B-3	885	180	9	3230	1, 2
DO-B-4	530	110	7	3230	1, 2
DO-B-5	700	140	8	3230	1, 2
DO-B-6	1100	220	9	3230	1, 2
DO-B-7	1160	230	9	3230	1, 2
DO-B-8	570	115	7	3230	1, 2
DO-B-9	570	115	7	3230	1, 2
DO-B-10	570	115	7	3230	1, 2
DO-B-11	570	115	7	3230	1, 2
DO-B-12	750	150	8	3230	1, 2
DO-B-13	425	85	6	3230	1, 2
DO-B-14	850	170	8	3230	1, 2
DO-B-15	750	150	8	3230	1, 2
DO-B-16	750	150	8	3230	1, 2
DO-B-17	1100	220	9	3230	1, 2
DO-B-18	600	120	7	3230	1, 2
DO-B-19	1100	220	9	3230	1, 2
DO-B-20	900	180	8	3230	1, 2
DO-B-21	800	160	8	3230	1, 2
DO-B-22	900	180	9	3230	1, 2
DO-1-1	400	80	6	3230	1, 2
DO-1-2	850	170	9	3230	1, 2
DO-1-3	900	180	9	3230	1, 2
DO-1-4	850	170	9	3230	1, 2
DO-1-5	260	55	5	3230	1, 2
DO-1-6	900	180	9	3230	1, 2
DO-1-7	850	170	9	3230	1, 2
DO-1-8	900	180	9	3230	1, 2
DO-1-9	850	170	9	3230	1, 2
DO-1-10	1060	215	9	3230	1, 2
DO-1-11	1030	210	9	3230	1, 2
DO-1-12	670	135	8	3230	1, 2
DO-1-13	1100	220	9	3230	1, 2
DO-1-14	150	30	5	3230	1, 2
DO-1-15	1650	330	11	3230	1, 2
DO-1-16	800	160	8	3230	1, 2
DO-1-17	800	160	8	3230	1, 2
DO-1-18	1650	330	10	3230	1, 2
DO-1-19	200	40	5	3230	1, 2
DO-1-20	1000	200	10	3230	1, 2
DO-1-21	400	40	6	3230	1, 2
DO-1-22	1000	200	9	3230	1, 2
DO-1-23	200	40	5	3230	1, 2
DO-1-24	1150	230	9	3230	1, 2
DO-2-1	700	140	8	3230	1, 2
DO-2-2	700	140	8	3230	1, 2
DO-2-3	360	70	8	3230	1, 2
DO-2-4	520	105	7	3230	1, 2
DO-2-5	350	70	6	3230	1, 2
DO-2-6	675	135	8	3230	1, 2
DO-2-7	240	50	5	3230	1, 2
DO-2-8	500	100	7	3230	1, 2
DO-2-9	1000	200	9	3230	1, 2
DO-2-10	675	135	8	3230	1, 2
DO-2-11	500	100	7	3230	1, 2
DO-2-12	700	140	8	3230	1, 2
DO-2-13	700	140	8	3230	1, 2
DO-2-14	700	140	8	3230	1, 2
DO-2-15	700	140	8	3230	1, 2
DO-2-16	700	140	8	3230	1, 2
DO-2-17	700	140	8	3230	1, 2

NOTES

1. BASIS OF DESIGN IS NAILOR.
2. MAXIMUM AIRFLOW SHOWN FOR INFORMATION PURPOSES. ACTUAL CFM TO BE FIELD MEASURED PRIOR TO DEMOLITION.

MARK	MODEL	SIZE	NECK	DAMPER	MATERIAL	REMARKS
S-1	5810	48X6	8	-	AL	1,3
S-2	5810	48X4	8	-	AL	1,2
S-3	61DH	16X10	-	-	ST	1

[illegible]

## MECHANICAL SCHEDULES, CONTROLS AND DETAILS

# M410

VARIABLE AIR VOLUME PRESSURE INDEPENDENT DUAL DUCT BOX SHALL MAINTAIN SPACE TEMPERATURE HEAT/COOL SETPOINTS OF 72/75 DEGREES F (ADJ) AND UNOCCUPIED COOL/HEAT SETPOINTS OF 80/65 DEGREES F. ALL SETPOINTS SHALL BE ADJUSTABLE.

OCCURRED MODE:  
 THE DAMPERS SHALL MODULATE TO MAINTAIN ZONE TEMPERATURE SETPOINT.  
 WHEN THE ZONE TEMPERATURE IS ABOVE ZONE TEMPERATURE SETPOINT THE COLD DUCT DAMPER SHALL MODULATE FROM THE COOLING MINIMUM CFM TO THE COOLING MAXIMUM CFM. THE HOT DUCT DAMPER SHALL REMAIN CLOSED.  
 WHEN THE ZONE TEMPERATURE IS BETWEEN THE HEATING AND COOLING SETPOINTS THE COLD DUCT AND HOT DUCT DAMPERS SHALL MODULATE INVERSELY TO MAINTAIN THE MIXING MINIMUM SETPOINT.  
 WHEN THE ZONE TEMPERATURE IS BELOW THE ZONE TEMPERATURE SETPOINT THE HOT DUCT DAMPER SHALL MODULATE FROM THE HEATING MINIMUM CFM TO THE HEATING MAXIMUM CFM. THE COLD DUCT DAMPER SHALL REMAIN CLOSED.

UNOCCUPIED MODE:  
THE AIR TERMINAL DAMPERS SHALL MODULATE AS DESCRIBED ABOVE TO MAINTAIN UNOCCUPIED ZONE TEMPERATURE SETPOINT WHENEVER THE ASSOCIATED AIR HANDLING UNIT IS ENERGIZED.

THE ZONE THERMOSTAT SHALL HAVE PLUS/MINUS 2° F TEMPERATURE ADJUSTMENT OF THE SETPOINT SET AT THE BAS AND TIMED UNOCCUPIED OVERRIDE BUTTON.

DUAL DUCT BOX	HARDWARE				SOFTWARE			
	AI	AO	DI	DO	SCHED	TREND	ALARM	GRAPHIC
DISCHARGE AIR TEMPERATURE	X					X		X
ZONE AIR TEMPERATURE	X					X		X
ZONE TEMPERATURE ADJUSTMENT	X					X		X
HEATING SETPOINT		X						X
COOLING SETPOINT		X						X
HOT DUCT AIR TEMPERATURE	X					X		X
HOT DUCT DAMPER POSITION		X						X
HOT DUCT AIRFLOW CFM	X					X		X
COLD DUCT AIR TEMPERATURE	X					X		X
COLD DUCT DAMPER POSITION						X		X
COLD DUCT AIRFLOW CFM	X					X		X
MINIMUM AIRFLOW SETPOINT		X						X
MAXIMUM COOLING AIRFLOW SETPOINT		X						X
MAXIMUM HEATING AIRFLOW SETPOINT		X						X
ZONE HIGH TEMPERATURE ALARM			X				X	X
ZONE LOW TEMPERATURE ALARM			X			X	X	X
OCCUPIED/UNOCCUPIED MODE			X		X			X
UNOCCUPIED MODE OVERRIDE			X					X

**SINGLE RECTANGULAR DUCT**

CONCRETE SLAB

CONCRETE INSERT

1"x1/8" STRAPS

TURN STRAPS

DUCT

REINFORCING ANGLE

REINFORCING ANGLES

**MULTIPLE DUCT RUNS ON TRAPEZOIDAL HANGERS**

USE THIS METHOD WHENEVER DUCTS CAN BE GROUPED TOGETHER

WASHER

BOTTOM CHORD OF STEEL JOIST

STEEL BEAM

BEAM CLAMP

5/8" ALL THREAD ROD

5/8" ALL THREAD ROD

DUCT

DUCT

DUCT

SEE PROJECT DRAWINGS FOR NUMBER & SIZE

2 1/2"x 2 1/2" x 1/4" ANGLE (WHERE LENGTH OF ANGLE EXCEEDS 8FT. USE INTERMEDIATE SUPPORT)

**ROUND DUCT**

SECURE STRAPS TO BEAM WITH LAG SCREWS

WOOD BEAM

SHEET METAL SCREWS

1"x1/8" STRAPS

DUCT-SEE PROJECT PLANS FOR SIZE

1 1/4" x 1 1/8" RING

**NOTE: DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 10FT O.C.**

NOTE: DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 10FT O.C.

SCALE: NTS

SCALE: NTS

SCALE: NTS

SCALE: NTS

SCALE: NTS

SCALE: NTS

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES