

GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY IBC 2015 AND SHALL CONFORM TO ALL OTHER APPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE ILLINOIS ACCESSIBILITY CODE (2018) AND THE AMERICANS WITH DISABILITIES ACT.

A. GENERAL NOTES B: MISCELLANEOUS AND DEMOLITION NOTES

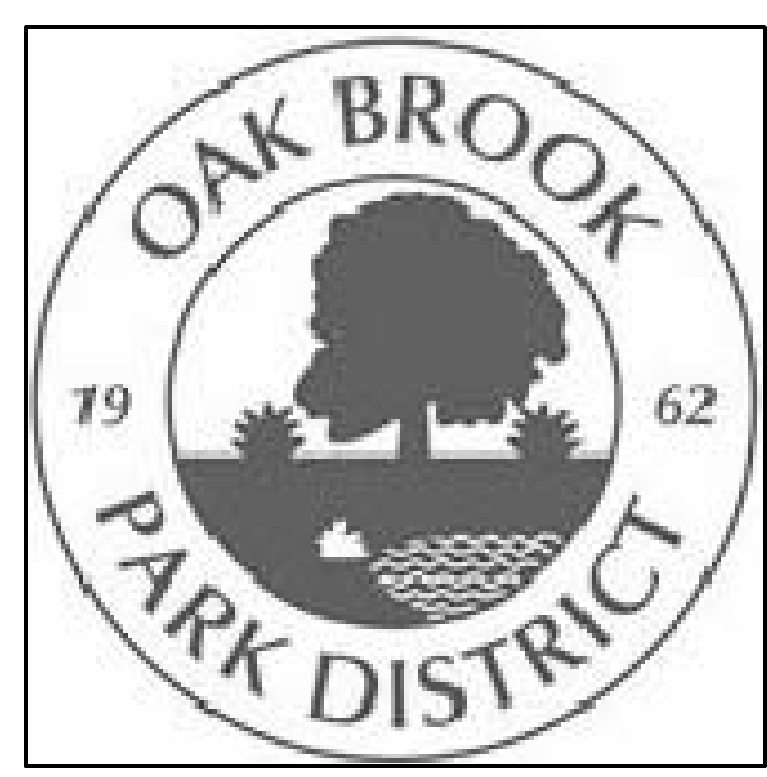
- 1. ALL CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND BE KNOWLEDGEABLE REGARDING EXISTING CONDITIONS AND THEIR EFFECT ON THE PROPOSED WORK. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR, ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE PROJECT.
2. NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO THE INTERRUPTION OF ANY UTILITY.
3. PROTECT AND KEEP IN SERVICE ACTIVE UNDERGROUND UTILITIES, PIPES, OR CONDUITS, WHETHER INDICATED ON THE DRAWINGS OR NOT, UNLESS SPECIFICALLY CALLED FOR TO BE REMOVED, RELOCATED, OR DISCONNECTED AND ABANDONED.
4. CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THAT OF OTHER TRADES.
5. NO WORK WILL BE PERMITTED TO BE INSTALLED WITHOUT RECEIPT AND SUBSEQUENT REVIEW OF FULL AND COMPLETE SUBMITTALS BY THE ARCHITECT/ENGINEER.
6. DO NOT SCALE DRAWINGS, DIMENSIONS INDICATED TAKE PRECEDENCE OVER SCALE.
7. VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD, WHERE DISCREPANCIES ARE FOUND BETWEEN DIMENSIONS OR ELEVATIONS SHOWN AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT/ENGINEER.
8. WHERE CONFLICTS MAY EXIST BETWEEN THE REQUIREMENTS OF PORTIONS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, HIGHER QUALITY OR MORE STRINGENT REQUIREMENT SHALL GOVERN. THEREFORE, BY EXECUTING A CONTRACT FOR CONSTRUCTION, THE CONTRACTOR AGREES THAT, IF IT RAISED NO QUESTIONS REGARDING SUCH CONFLICTS DURING THE BIDDING PROCESS, AND IN THE ABSENCE OF A CLARIFYING ADDENDUM ISSUED DURING THE BIDDING PROCESS, IT HAS VOLUNTARILY TO COMPLY WITH THE MORE EXPENSIVE REQUIREMENT AS PART OF ITS BASE BID AND IS NOT ENTITLED TO ANY ADDITIONAL COMPENSATION TO RESOLVE THE CONFLICT.
9. THE CONTRACT DOCUMENTS REQUIRE THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE PRODUCTS, SYSTEMS AND SERVICES. BY EXECUTING A CONTRACT FOR CONSTRUCTION, THE CONTRACTOR AGREES THAT THE DRAWINGS SET FORTH THE DESIGN INTENT AND, THEREFORE, MAY NOT EXPRESSLY DEPICT EVERY LENGTH, SEGMENT, PIECE, PART, COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE. THE CONTRACTOR FURTHER AGREES THAT, AS PART OF ITS BID, IT MUST FURNISH AND INSTALL EVERY LENGTH, SEGMENT, PIECE, PART, COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE AND, CONSEQUENTLY, THE CONTRACTOR IS NOT ENTITLED TO ANY ADDITIONAL COMPENSATION FOR ANY LENGTH, SEGMENT, PIECE, PART COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE BECAUSE IT IS NOT EXPRESSLY DEPICTED HEREIN.

STANDARD ABBREVIATIONS

Table with 4 columns of abbreviations and their corresponding full names. Includes terms like ANCHOR BOLT, ACROUSTICAL CEILING PANEL, FLOOR DRAIN, etc.

DRAFTING SYMBOLS AND MATERIALS LEGEND. Table showing symbols for detail numbers, column numbers, reference line numbers, location elevations, room numbers, door numbers, nominal thickness, keynotes, window types, and toilet accessories.

Table showing symbols for spot elevations, concrete, brick masonry, stone masonry, raked joints, brick masonry in section, stone masonry in section, steel in section, discontinuous rough wood blocking, continuous rough wood framing, finished wood in section, rigid board insulation, batt insulation, gypsum board, acoustic ceiling panels, bituminous concrete, aggregate ballast, undisturbed earth, and earth backfill.



PROJECT

OAK BROOK PARK DISTRICT - FAMILY REC CENTER AHU REPLACEMENT
1450 FOREST GATE RD
OAK BROOK, IL 60523

OWNER

OAK BROOK PARK DISTRICT
1450 FOREST GATE RD
OAK BROOK, IL 60523

ARCHITECT/ENGINEER

KLUBER ARCHITECTS + ENGINEERS
10 S. SHUMWAY AVE.
BATAVIA, ILLINOIS 60510
TEL (630) 406-1213
FAX (630) 406-9472
www.kluberinc.com

INDEX OF DRAWINGS

Table listing drawing numbers and titles: G100 COVER SHEET, GENERAL NOTES, SYMBOLS, & DRAWING INDEX; ME230 MECHANICAL & ELECTRICAL DEMOLITION ROOF PLAN; ME330 MECHANICAL & ELECTRICAL ROOF PLAN; M400 MECHANICAL SCHEDULES & TEMPERATURE CONTROLS.

APPLICABLE CODES

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL MECHANICAL CODE
2014 ILLINOIS STATE PLUMBING CODE
2014 NATIONAL ELECTRIC CODE
2015 INTERNATIONAL PROPERTY MAINTENANCE CODE
2015 INTERNATIONAL EXISTING BUILDING CODE
2015 INTERNATIONAL FUEL GAS CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
ILLINOIS ACCESSIBILITY CODE - CURRENT EDITION
LOCAL AMENDMENTS TO THE ABOVE CODES

SEALS & CERTIFICATIONS

ARCHITECT'S SEAL box.

MECHANICAL ENGINEER'S SEAL box.

ELECTRICAL ENGINEER'S SEAL box.

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH IBC 2015 EDITION, THE ENVIRONMENTAL BARRIERS ACT AND THE ILLINOIS ACCESSIBILITY CODE.

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

"G" SERIES, "A" SERIES

"G" SERIES, "P" SERIES, "M" SERIES, "F" SERIES

"G" SERIES, "E" SERIES



OAK BROOK PARK DISTRICT - FAMILY REC CENTER AHU REPLACEMENT
OAK BROOK PARK DISTRICT
1450 FOREST GATE RD
OAK BROOK, IL 60523

Table with columns for ISSUED, DATE, and DESCRIPTION, showing a series of empty rows.

Table with columns for JOB NO., DRAWN, CHECKED, APPROVED, and SHEET TITLE.

COVER SHEET, GENERAL NOTES, SYMBOLS AND DRAWING INDEX

SHEET NUMBER G100

KEYNOTES

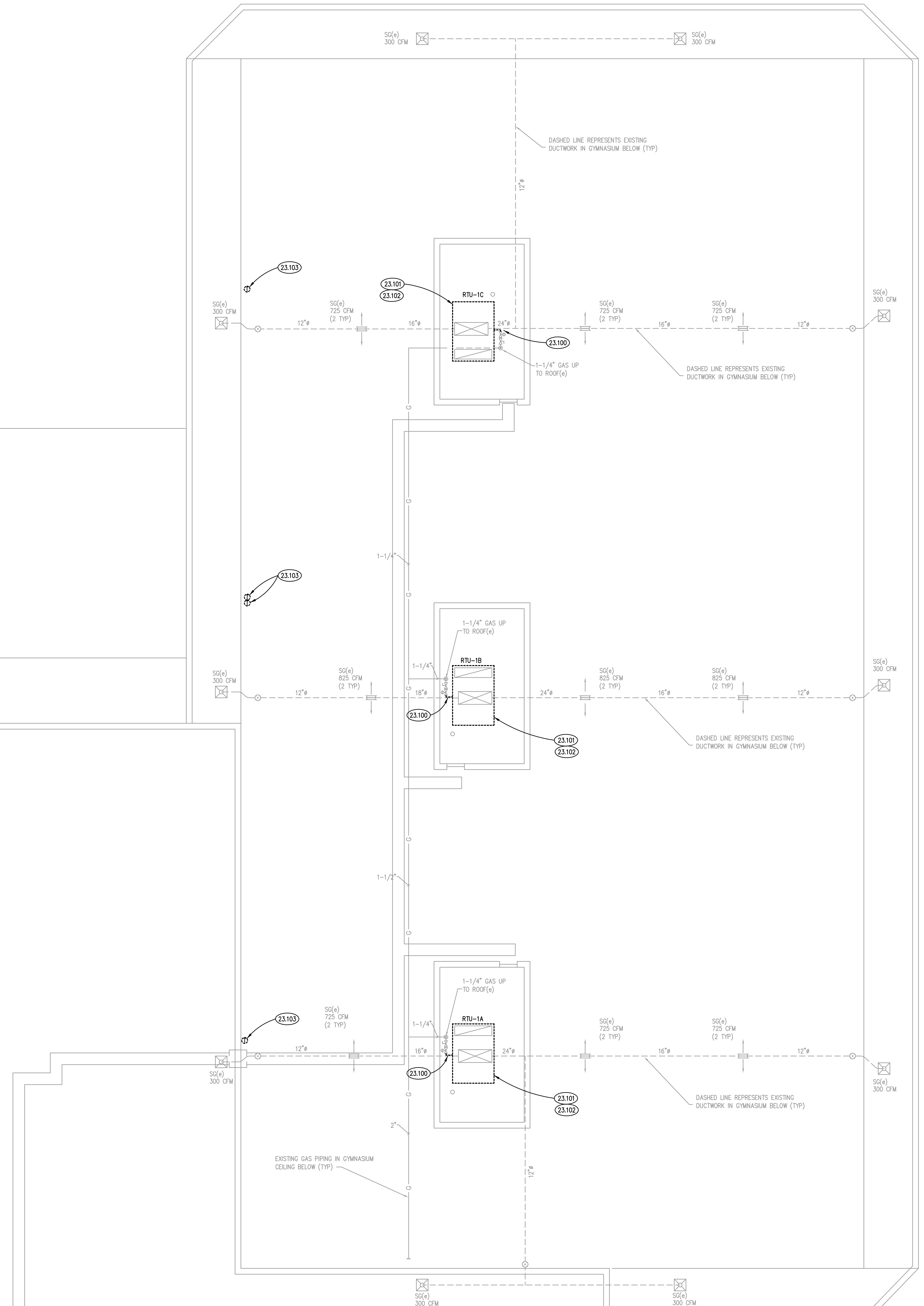
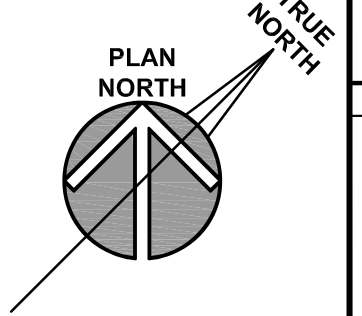
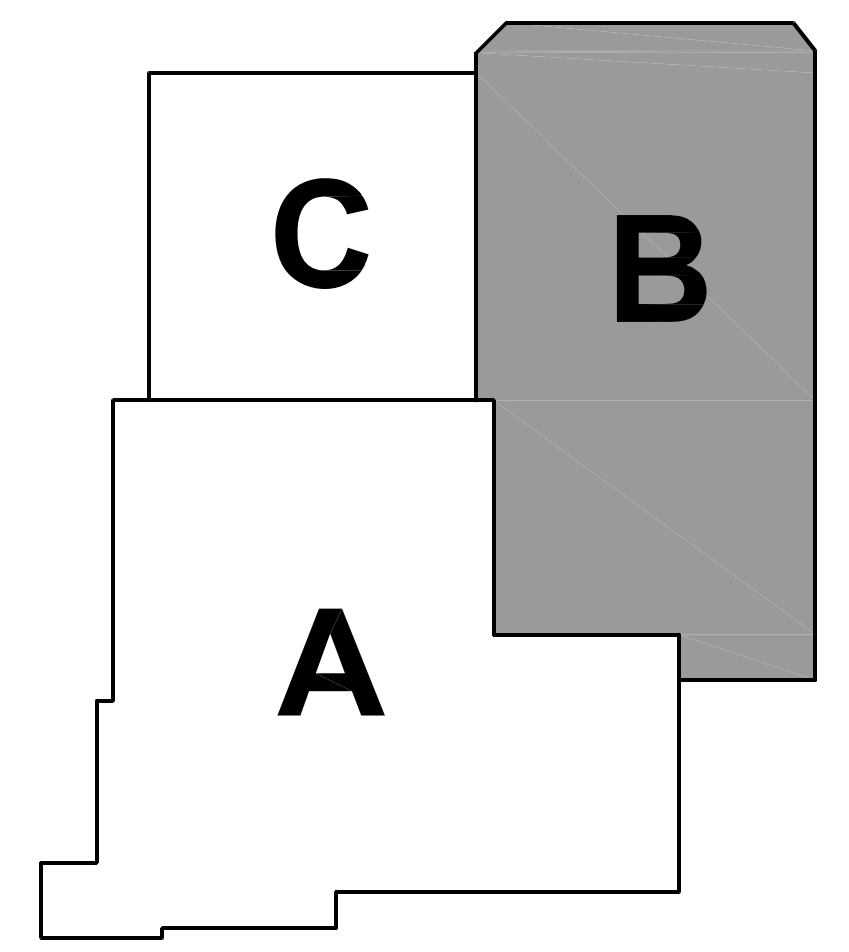
KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 23.100 DISCONNECT GAS PIPING FROM ROOF TOP UNIT. PROVIDE TEMPORARY CAP FOR NEW CONNECTION.
- 23.101 REMOVE ROOF TOP UNIT. DISCONNECT DUCTWORK TAKE-OFFS AND CONTROL NETWORK WIRING.
- 23.102 EXISTING ROOF CURB TO REMAIN IN PLACE. PROTECT ROOF OPENING WEATHERTIGHT WHILE ROOF TOP UNIT IS REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO AREA BELOW CAUSED BY EXPOSURE TO OUTSIDE CONDITIONS.
- 23.103 REMOVE EXISTING THERMOSTAT FOR ROOF TOP UNIT. THERMOSTAT LOCATED IN GYMNASIUM ON FLOOR BELOW.

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. ALL PIPING AND DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES 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 AND DUCTWORK INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND PIPE 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. GENERALLY, SMALL DIAMETER PIPE RUNS FROM DRIPS, CONDENSATE PANS AND OTHER SERVICES ARE NOT SHOWN BUT MUST BE PROVIDED.
7. 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.
8. DO NOT CUT THROUGH STRUCTURAL ELEMENTS WHEN INSTALLING OPENINGS REQUIRED FOR ALL DUCTWORK, PIPING, CONDUITS OR OTHER WORK. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DISRUPTED ELEMENTS.
9. ALL ROOFTOP EQUIPMENT (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC.) AND THEIR CORRESPONDING CURBS TO BE ATTACHED TO THE STRUCTURAL FRAMING AS REQUIRED TO RESIST WIND AND SEISMIC FORCES. ANCHORAGE TO METAL DECKING IS NOT ACCEPTABLE. CONTRACTOR/MANUFACTURER TO CONSULT AN INDEPENDENT STRUCTURAL ENGINEER TO REVIEW, DESIGN AND DETAIL THE REQUIRED CONNECTIONS.
10. OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.

KEY PLAN



MECHANICAL DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0" ①

ISSUED	
11/18/19	OUT TO BID

JOB NO.	19-310-1271
DRAWN	BWG
CHECKED	DDW
APPROVED	DDW

SHEET TITLE

MECHANICAL DEMOLITION ROOF PLAN

SHEET NUMBER

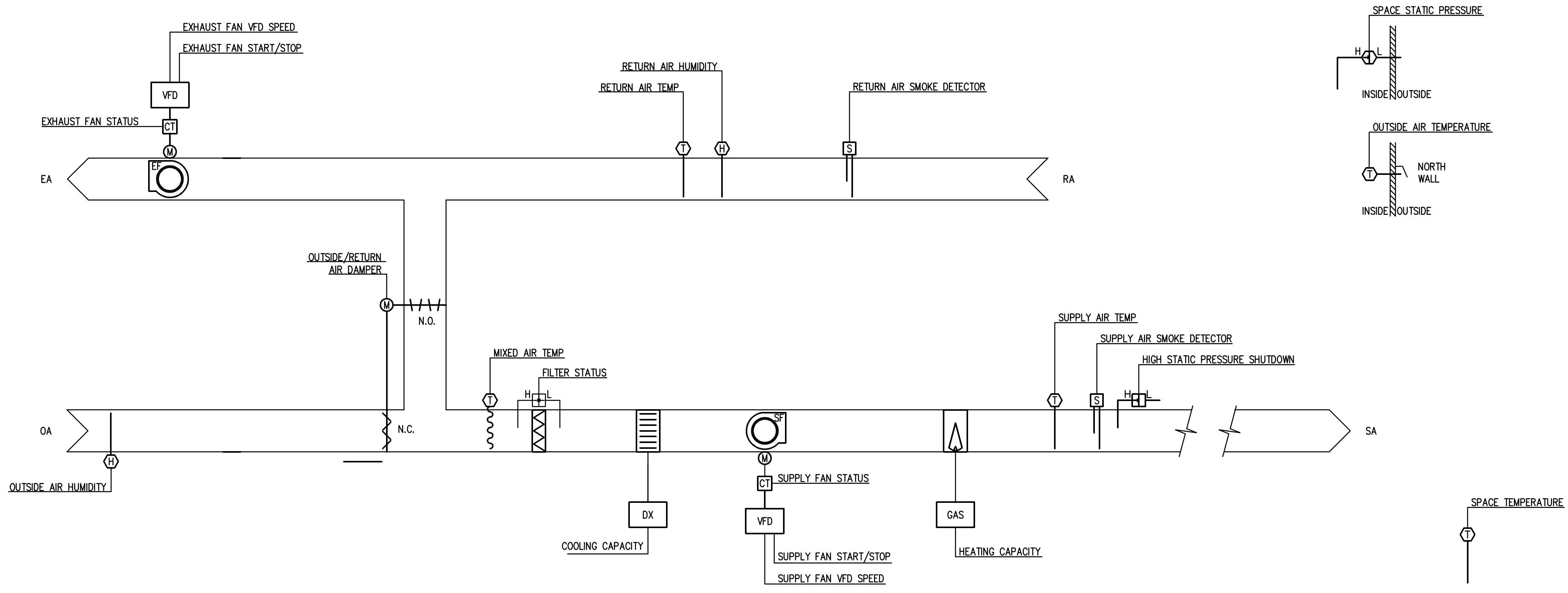
M230

ROOF TOP UNIT SCHEDULE

MARK	AIR FLOW (CFM)	MINIMUM OA (CFM)	COOLING					HEATING			SUPPLY FAN (HP)	EXTERNAL STATIC PRESS (IN WG)	EXHAUST FAN (HP)	EXTERNAL STATIC PRESS (IN WG)	ELECTRICAL		MAX OPERATING WEIGHT (LB)	MODEL	NOTES		
			ENT AIR TEMP (db / wb °F)	LVG AIR TEMP (db / wb °F)	REFRIGERANT TYPE	COOLING OA TEMP (°F)	SENS CAP (MBH)	TOTAL CAP (MBH)	MIN EER	GAS INPUT (MBH)					GAS OUTPUT (MBH)	STAGES				V/PHRZ	MCA
RTU-1A	5,500	1,375	80 / 67	56.7 / 56.5	R-410A	95	138.4	177.7	12.5	350	280	MODULATING	5.0	1.4	3/4	0.5	460/3/60	40.0	2,600	YZD180F	1, 2, 3, 4
RTU-1B	5,500	1,375	80 / 67	56.7 / 56.5	R-410A	95	138.4	177.7	12.5	350	280	MODULATING	5.0	1.4	3/4	0.5	460/3/60	40.0	2,600	YZD180F	1, 2, 3, 4
RTU-1C	5,500	1,375	80 / 67	56.7 / 56.5	R-410A	95	138.4	177.7	12.5	350	280	MODULATING	5.0	1.4	3/4	0.5	460/3/60	40.0	2,600	YZD180F	1, 2, 3, 4

- NOTES:
 1. MODEL BASED ON TRANE.
 2. PROVIDE WITH LOW LEAK ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND 30% FILTERS.
 3. PROVIDE UNIT MOUNTED EXHAUST FAN.
 4. PROVIDE WITH INVERTER SCROLL ON LEAD COMPRESSOR.

SZVAV RTU TEMPERATURE VFD CONTROL SCHEMATIC



- NOTES:
 1. COMPONENTS AND INTERCONNECTIONS SHOWN ARE SCHEMATIC ONLY.
 2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPONENTS, SENSORS, RELAYS, ETC., TO ENSURE A COMPLETE OPERATING SYSTEM.

SEQUENCE OF OPERATIONS

ROOF TOP UNIT (RTU-1A, -1B, -1C):

THE ROOF TOP UNIT OCCUPIED/UNOCCUPIED MODE SCHEDULING SHALL BE MADE AT THE BUILDING AUTOMATION SYSTEM. PROVISIONS SHALL BE MADE FOR MANUAL SHUTDOWN OF EQUIPMENT. THE ROOF TOP UNIT SHALL OPERATE AS A SINGLE ZONE VAV SYSTEM. ALL SETPOINTS SHALL BE ADJUSTABLE. UNOCCUPIED SPACE TEMPERATURE SETPOINTS SHALL BE 80 DEGREES F COOLING AND 65 DEGREES F HEATING.

SUPPLY FAN - THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE AND INTERMITTENTLY DURING UNOCCUPIED MODE. THE FAN SHALL HAVE A MINIMUM FAN SPEED OUTPUT OF 37%. IF AIRFLOW IS NOT DETECTED AT ANY TIME, THE FAN MOTOR SHALL BE DE-ENERGIZED AND AN AUDIBLE ALARM SHALL BE ACTIVATED. IN COOLING THE SUPPLY FAN SHALL MODULATE BETWEEN MINIMUM SPEED AND 100% SPEED AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE WITHIN THE SPACE COOLING RESET SCHEDULE. IN HEATING THE SUPPLY FAN SHALL MODULATE BETWEEN 50% AND 100% AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE WITHIN THE SPACE HEATING RESET SCHEDULE.

EXHAUST FAN - WHEN THE BUILDING IS IN OCCUPIED MODE AND THE SUPPLY FAN IS ENERGIZED, THE EXHAUST FAN SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN A POSITIVE PRESSURE OF 0.05 IN WG IN THE SPACE.

SMOKE DETECTORS - UPON DETECTION OF SMOKE THE FANS SHALL BE DE-ENERGIZED, CLOSE OUTSIDE AIR DAMPER, AND SIGNAL ALARM LOCALLY AND AT FIRE ALARM PANEL.

OA/RA DAMPERS - THE OA DAMPERS SHALL MODULATE WITH THE SUPPLY FAN SPEED TO MAINTAIN OUTSIDE AIR CFM. AN ECONOMIZER SHALL MODULATE THE DAMPERS BASED ON DIFFERENTIAL ENTHALPY OF THE RETURN AIR AND THE OUTSIDE AIR TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 55 DEGREES F. IN UNOCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED.

ECONOMIZER - AN ECONOMIZER SHALL MODULATE THE DAMPERS BASED ON DIFFERENTIAL ENTHALPY OF THE RETURN AIR AND THE OUTSIDE AIR TO MAINTAIN A SUPPLY AIR TEMPERATURE 55 DEGREES F. THE ECONOMIZER SHALL HAVE FAULT AND DETECTION DIAGNOSTICS (FDD). THE FDD SHALL ALARM IF 15 AIR TEMPERATURE SENSOR FAILURE, NO ECONOMIZER WHEN ENABLED, ECONOMIZING WHEN DISABLED, DAMPERS NOT MODULATING AND EXCESS OUTDOOR AIR. THE FDD SHALL ALARM WITH ANY OF THE FOLLOWING FAULTS:

- AIR TEMPERATURE SENSOR FAILURE/FAULT
- NOT ECONOMIZING WHEN THE UNIT SHOULD BE ECONOMIZING
- ECONOMIZING WHEN THE UNIT SHOULD NOT BE ECONOMIZING
- DAMPER NOT MODULATING
- EXCESS OUTDOOR AIR

COOLING MODE - THE COOLING MODE SHALL BE DETERMINED BY THE SPACE TEMPERATURE. THE COOLING DISCHARGE AIR TEMPERATURE SHALL MODULATE IN CONJUNCTION WITH THE SUPPLY FAN TO MAINTAIN SPACE TEMPERATURE.

HEATING MODE - THE HEATING MODE SHALL BE DETERMINED BY THE SPACE TEMPERATURE. THE GAS HEAT SHALL MODULATE IN CONJUNCTION WITH THE SUPPLY FAN TO MAINTAIN SPACE TEMPERATURE.

ENHANCED DEHUMIDIFICATION - WHEN THE RETURN AIR HUMIDITY EXCEEDS THE DEHUMIDIFICATION SETPOINT THE UNIT SHALL TRANSITION TO THE ENHANCED DEHUMIDIFICATION MODE.

ROOF TOP UNIT (RTU-1A, -1B, -1C)	HARDWARE				SOFTWARE		
	AI	AO	BI	BO	SCHED	TREND	ALARM
OCCUPIED/UNOCCUPIED MODE			X			X	
SUPPLY FAN START/STOP				X			
SUPPLY FAN STATUS			X				X
SUPPLY FAN VFD SPEED			X				
HIGH STATIC PRESSURE SHUTDOWN			X				X
EXHAUST FAN START/STOP				X			
EXHAUST FAN STATUS				X			X
SPACE STATIC PRESSURE	X						X
SUPPLY AIR TEMPERATURE	X						X
RETURN AIR TEMPERATURE	X						X
OUTSIDE AIR TEMPERATURE	X						X
OUTSIDE AIR HUMIDITY	X						X
MIXED AIR TEMPERATURE	X						X
RETURN AIR HUMIDITY	X						X
DEHUMIDIFICATION SETPOINT	X						X
COOLING CAPACITY	X						X
HEATING CAPACITY	X						X
FILTER STATUS			X				X
SMOKE DETECTOR STATUS (SA, RA)			X				X
OUTSIDE/RETURN AIR DAMPER		X					
MORNING WARM-UP STATUS		X			X		
MORNING COOL-DOWN STATUS		X			X		
ECONOMIZER STATUS	X					X	
SPACE TEMPERATURE SETPOINT	X						X
FAULT DETECTION & DIAGNOSTICS (FDD)		X					X

ISSUED	DATE	BY	REVISION

JOB NO. 19-310-1271
 DRAWN BWG/DDW
 CHECKED DDW
 APPROVED DDW

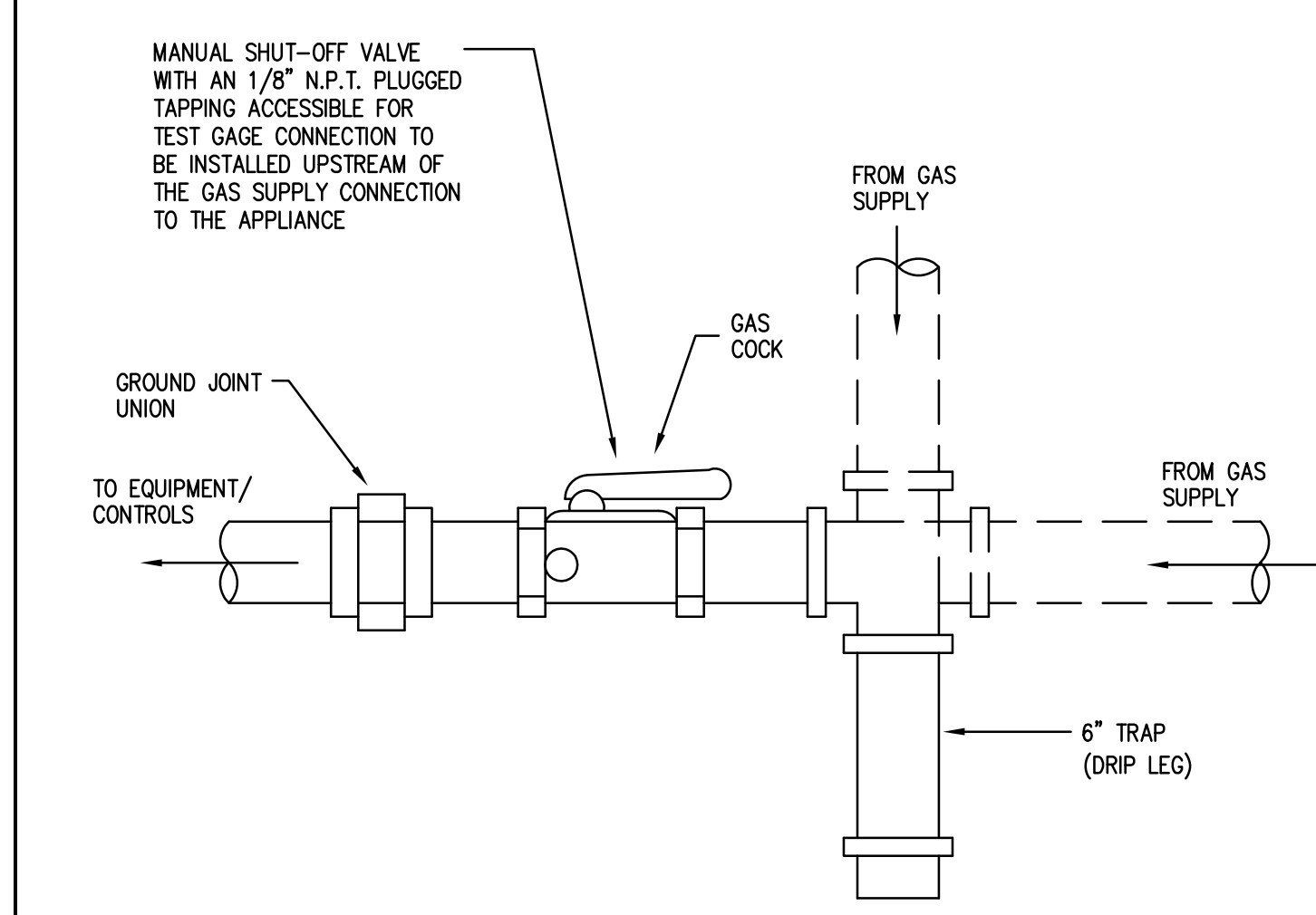
SHEET TITLE
MECHANICAL SCHEDULES & TEMPERATURE CONTROLS

SHEET NUMBER
M400

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.

- 23.200 PROVIDE NEW ROOF TOP UNIT. NEW ROOF TOP UNIT TO BE MOUNTED ON EXISTING CURB. PROVIDE CURB ADAPTER AS REQUIRED. PROVIDE ALL MATERIALS AND LABOR TO CONNECT TO EXISTING DUCTWORK.
- 23.201 PROVIDE FINAL GAS CONNECTION TO ROOF TOP UNIT.
- 23.202 PROVIDE NEW THERMOSTAT FOR ROOF TOP UNIT.
- 23.203 REMOVE EXISTING TRANE COM4 CABLING. PROVIDE NEW BACNET TRUNK FROM EXISTING FX-80 JACE TO ROOF TOP UNIT CONTROLLERS. PROVIDE RS-485 CARDS AS REQUIRED TO INTERFACE TO ROOF TOP UNIT CONTROLLERS. DELETE POINTS AND GRAPHICS OF REMOVED ROOF TOP UNITS FROM BUILDING AUTOMATION SYSTEM. PROVIDE NEW POINTS AND GRAPHICS FOR NEW ROOF TOP UNITS AS DETAILED. PARK DISTRICT CONTROLS CONTRACTOR IS APPLIED CONTROLS, INC., WARRENVILLE, 630-836-9440.
- 23.300 ALTERNATE NO. 1: REMOVE GAS PIPING BACK AS REQUIRED FOR INSTALLATION OF NEW ROOF PORTAL AND PROVIDE TEMPORARY CAP ON PIPE. PROVIDE NEW GAS PRESSURE REGULATOR AND SHUT-OFF VALVE FOR ROOF TOP UNIT.
- 26.001 REMOVE DISCONNECT AND PROTECT BRANCH CIRCUITY (3/8" LIQUID-TIGHT FLEX CONDUIT). PROVIDE NEW FLEXIBLE CONNECTION (3/8" #106, 1" LIQUID-TIGHT FLEX CONDUIT). SEE KEY NOTE 26.005
- 26.002 REMOVE GF1 RECEPTACLE AND PROTECT BRANCH CIRCUITY (2#12, 3/4" LIQUID-TIGHT FLEX CONDUIT). PROVIDE NEW FLEXIBLE CONNECTION (2#12, #126, 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT). SEE KEY NOTE 26.006
- 26.003 ROUTE ELECTRICAL CONNECTIONS THROUGH EXISTING ROOF PORTAL.
- 26.004 REMOVE DISCONNECT AND PROTECT BRANCH CIRCUITY (3/8" LIQUID-TIGHT FLEX CONDUIT). PROVIDE NEW FLEXIBLE CONNECTION (3/8" #106, 1" LIQUID-TIGHT FLEXIBLE CONDUIT). SEE KEY NOTE 26.005
- 26.005 LOCATE RTU BRANCH CIRCUIT JUNCTION/PULL BOX BELOW ROOF. REPLACE FLEXIBLE CONNECTION FROM JUNCTION/PULL BOX TO NEW RTU UNIT EQUIPMENT.
- 26.006 LOCATE RECEPTACLE BRANCH CIRCUIT JUNCTION BOX BELOW ROOF. REPLACE FLEXIBLE CONNECTION FROM JUNCTION BOX TO NEW GF1 RECEPTACLE MOUNTED ON RTU EQUIPMENT ADJACENT TO UNIT DISCONNECT.
- 26.007 DISCONNECT, PROTECT AND RE-INSTALL DUCT DETECTORS AND FAN SHUT DOWN FIRE SAFETY CONTROL WIRING AT RTU EQUIPMENT.

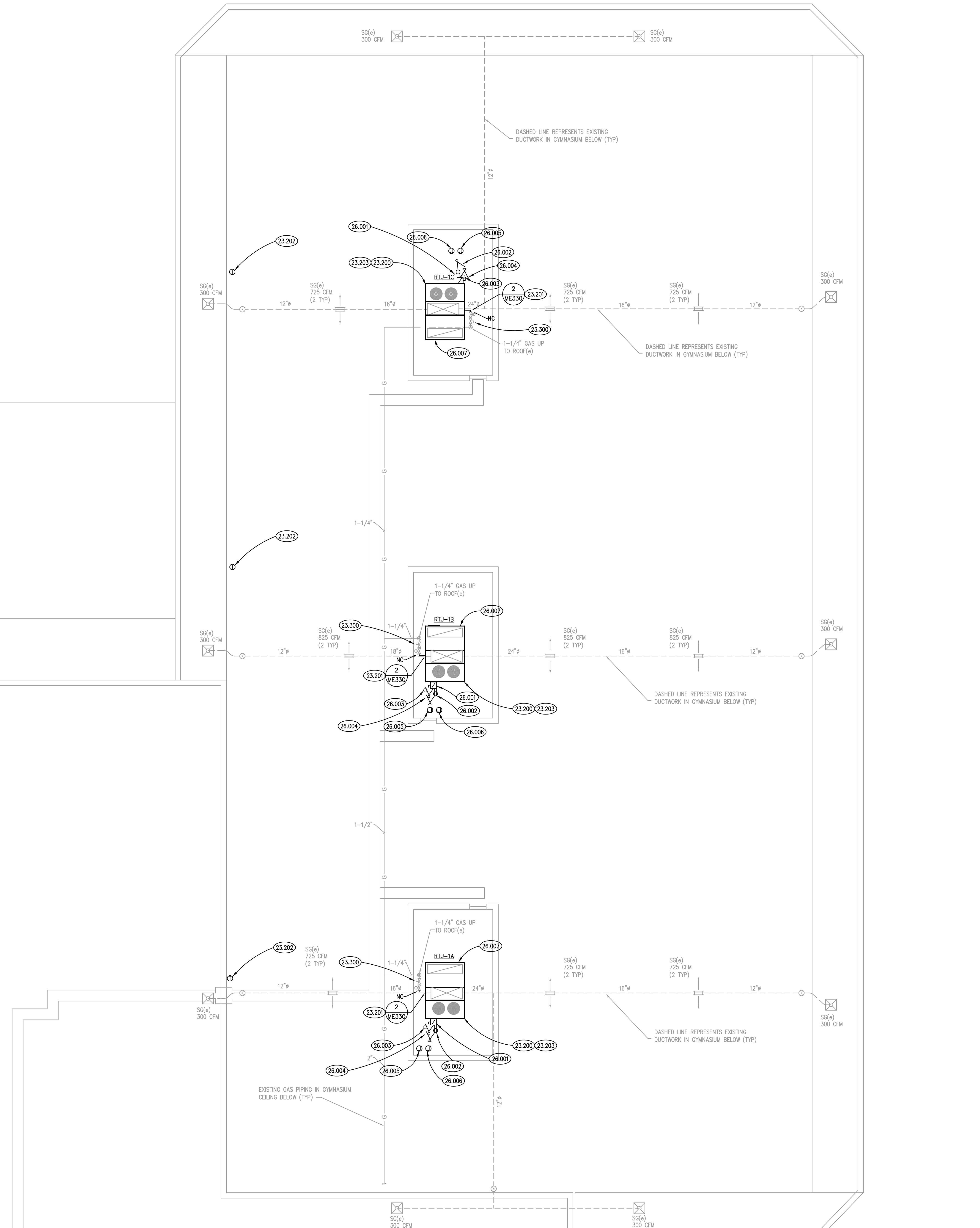
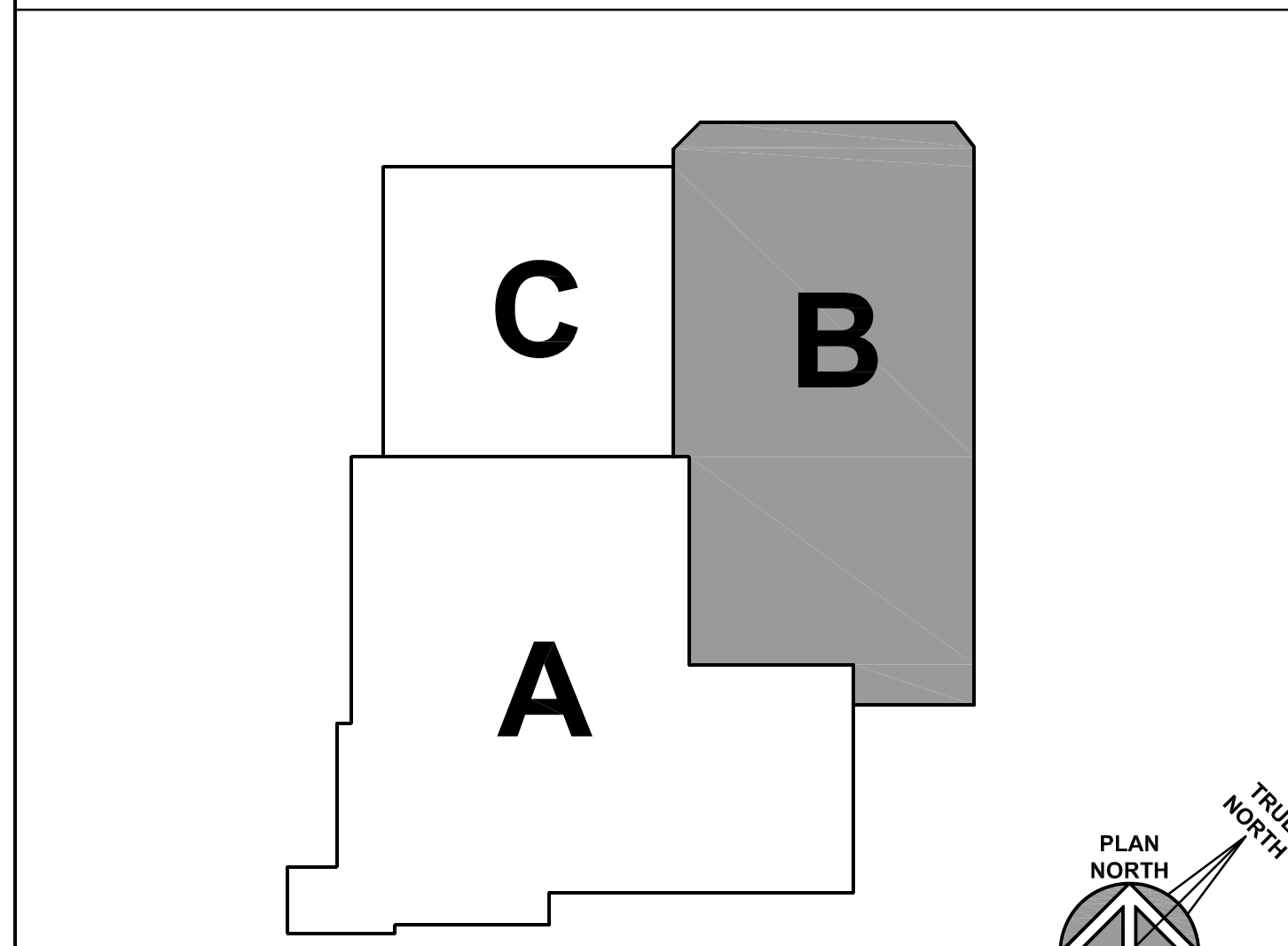


GAS CONNECTION TO EQUIPMENT DETAIL (2)
SCALE: NTS

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. ALL PIPING AND DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISINGS. 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 AND DUCTWORK INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND PIPE 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. GENERALLY, SMALL DIAMETER PIPE RUNS FROM DRIPS, CONDENSATE PANS AND OTHER SERVICES ARE NOT SHOWN BUT MUST BE PROVIDED.
7. 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.
8. DO NOT CUT THROUGH STRUCTURAL ELEMENTS WHEN INSTALLING OPENINGS REQUIRED FOR ALL DUCTWORK, PIPING, CONDUITS OR OTHER WORK. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DISRUPTED ELEMENTS.
9. ALL ROOFTOP EQUIPMENT (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC.) AND THEIR CORRESPONDING CURBS TO BE ATTACHED TO THE STRUCTURAL FRAMING AS REQUIRED TO RESIST WIND AND SEISMIC FORCES. ANCHORAGE TO METAL DECKING IS NOT ACCEPTABLE. CONTRACTOR/MANUFACTURER TO CONSULT AN INDEPENDENT STRUCTURAL ENGINEER TO REVIEW, DESIGN AND DETAIL THE REQUIRED CONNECTIONS.
10. OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.

KEY PLAN



MECHANICAL & ELECTRICAL ROOF PLAN (1)
SCALE: 1/8" = 1'-0"