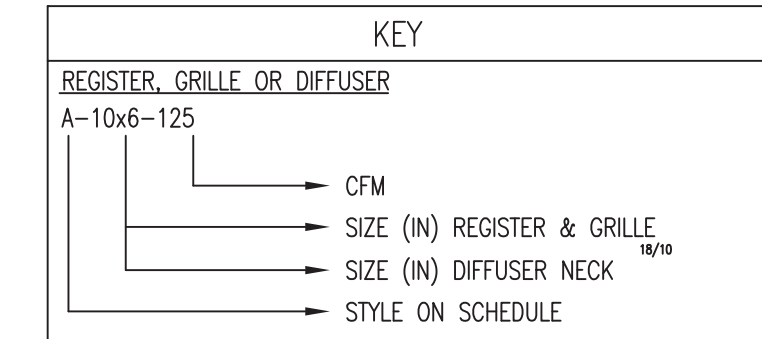


**GENERAL NOTES:**

- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES IN ORDER TO AVOID ALL INTERFERENCE.
- CONTRACTOR SHALL VERIFY ALL EXISTING SIZES, FUNCTIONS, LOCATIONS AND CONDITIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY FITTINGS AND/OR APPURTENANCES FOR THE COMPLETE INSTALLATION, OPERATION AND CONNECTION OF THE EQUIPMENT SHOWN AND/OR SPECIFIED.
- ALL MATERIALS REMOVED BY THIS CONTRACTOR SHALL BE REVIEWED BY THE OWNER. MATERIAL NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES. MATERIAL THE OWNER ELECTS TO KEEP SHALL BE STORED BY THE OWNER. THIS CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING EQUIPMENT, PIPING, DUCTS, ETC. AS INDICATED ON THE DRAWINGS OR AS REQUIRED TO COMPLETE THE WORK AND CAP OFF PIPING OR DUCTS AIRTIGHT THAT ARE NOT TO BE REUSED UNDER OR BEHIND FINISHED SURFACES. CONCEALED ITEMS NOT TO BE REUSED MAY BE ABANDONED IF DISCONNECTED FROM THE SYSTEM.
- CONTRACTOR SHALL INSTALL EQUIPMENT, PIPING AND DUCTWORK IN SUCH A MANNER AS TO AVOID ALL INTERFERENCE WITH THE NEW AND EXISTING EQUIPMENT AND SYSTEMS.
- WHEN REMOVING EXISTING EQUIPMENT AS SHOWN AND AS NOTED, INCLUDING, BUT NOT LIMITED TO PLUMBING FIXTURES, DUCTWORK, TEMPERATURE CONTROLS, CONTROL WIRING AND ANY OTHER DEMOLITION WORK, ALL PIPING, WIRING, DUCTWORK AND ANY OTHER CONNECTIONS SHALL BE CAPPED OFF AIRTIGHT BELOW FLOORS, INSIDE WALLS AND/OR ABOVE CEILINGS. THE FLOORS, WALLS, AND/OR CEILINGS SHALL BE PATCHED TO MATCH THE EXISTING CONDITIONS BY THE MECHANICAL CONTRACTOR.
- ALL TEMPERATURE CONTROL LINES SHALL BE CAPPED OFF AIRTIGHT TO MAINTAIN PROPER OPERATION OF THE EXISTING TEMPERATURE CONTROL SYSTEM WHEN REMOVING EXISTING TEMPERATURE CONTROL ITEMS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING ALL NEW PENETRATIONS OF FLOORS, WALLS AND CEILINGS (NEW AND EXISTING CONSTRUCTION) WHERE NEW PIPING AND DUCTWORK PASS THROUGH FIRE RATED PARTITIONS. REFER TO SPECIFICATION SECTION "FIRE STOPPING".
- ALL PENETRATIONS THAT REQUIRE A LINTEL TO BE DONE BY OTHERS. ALL PENETRATIONS THROUGH BLOCK TO BE COORDINATED WITH MASONRY CONTRACTOR.

**MECHANICAL NOTES:**

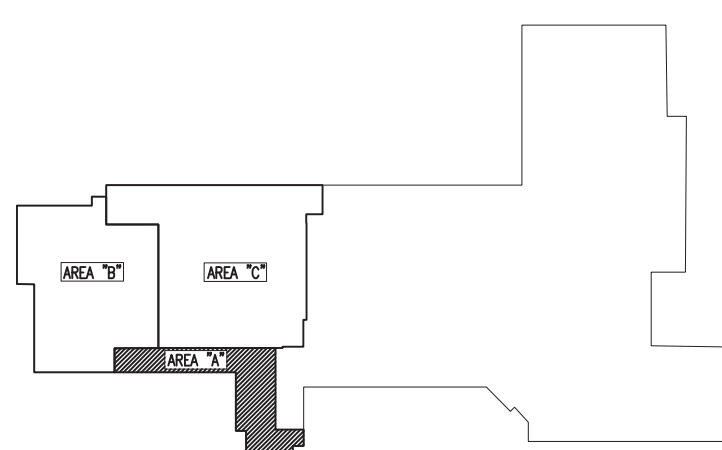
- JOHNSON CONTROLS SERIES 20 UNIT, MODEL# J152JC00Q4Z220005  
HEATING PERFORMANCE:  
356.2 MBH; 6000 CFM @ 1.0" ESP; EAT-41.4  
EWT-180; LWT-160; 32.9 GPM; 40% PROP. GLYCOL  
FPD-10.0 FT HD; APD-20" W.G.  
COOLING PERFORMANCE:  
TOTAL CAPACITY-198.4 MBH; SENSIBLE CAPACITY-143.3 MBH  
EDR-77.9; LDB-55.6; EWB-65.6; LWB-54.7; 15 TON  
UNIT ON ROOF. PROVIDE AND INSTALL UNIT ON ROOF CURB.  
ALL EXTERIOR DUCTWORK AND PIPING TO HAVE 3" INSULATION WITH WEATHER PROOF COVERS. SEAL ROOF PENETRATIONS WEATHERTIGHT.
- 1" LPG AT 5 PSI TO WATER HEATERS. FIELD VERIFY EXACT LOCATION OF WATER HEATERS. PROVIDE AND INSTALL DRIP LEG, UNION, GAS COCK AND REGULATOR.
- AIR INTAKE AND EXHAUST TO WATER HEATERS UP THRU ROOF WITH MANUFACTURER'S RECOMMENDED TERMINATIONS. INSTALLATION SHALL COMPLY WITH APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS. FIELD VERIFY LOCATION OF WATER HEATERS.
- RTU CURBS TO BE INSULATED BY ROOFING CONTRACTOR. SEE MANUFACTURER'S CUT AWAY OF ROOF CURB DETAIL IN SHOP DRAWINGS.



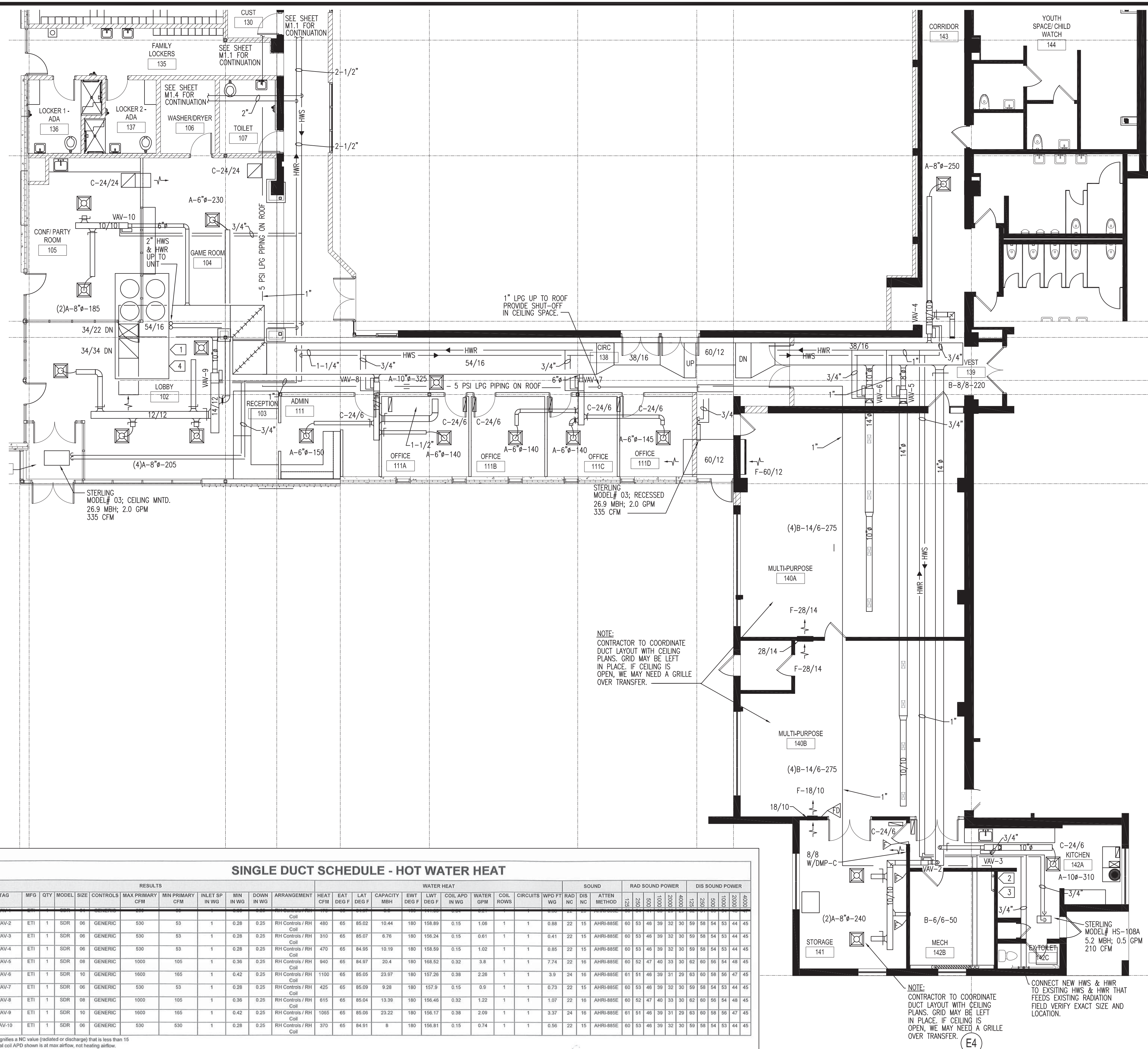
**REGISTER SCHEDULE**

MARK	MODEL	MANUFACTURER	SUPPLY	RETURN	EXHAUST	REGISTER	DIFFUSER	LOCATION	REMARKS
A	S1200	TUTTLE & BAILEY	X	X	X	X	X		NOTE 1, 2
B	T64	TUTTLE & BAILEY	X	X	X	X	X		NOTE 1, 2
C	CR500	TUTTLE & BAILEY	X	X	X	X	X		NOTE 1, 2, 3
D	T700	TUTTLE & BAILEY	X	X	X	X	X		NOTE 1, 2, 3
E	T64	TUTTLE & BAILEY	X	X	X	X	X		NOTE 1, 2
F	T700	TUTTLE & BAILEY	X	X	X	X	X		NOTE 1, 2

- NOTES:**
- FURNISH ALL HARDWARE REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
  - COLOR TO BE DETERMINED BY THE ARCHITECT.
  - EXACT LOCATE THE SECTION IN PLAN VIEW TO APPLY.



**KEY PLAN**  
NO SCALE



**SINGLE DUCT SCHEDULE - HOT WATER HEAT**

TAG	MFG	QTY	MODEL	SIZE	CONTROLS	RESULTS		WATER HEAT												SOUND			RAD SOUND POWER			DIS SOUND POWER											
						MAX PRIMARY CFM	MIN PRIMARY CFM	HEAT CFM	EAT DEG F	LAT DEG F	CAPACITY MBH	EWT DEG F	LWT DEG F	COIL APD IN W/G	WATER GPM	COIL ROWS	CIRCUITS	W/PD FT W/G	RAD NC	DIS NC	ATTEN METHOD	125	250	500	1000	2000	4000	8000	125	250	500	1000	2000	4000	8000		
VAV-2	ETI	1	SDR	06	GENERIC	530	53	1	0.28	0.25	RH Controls / RH Coil	480	65	85.62	10.44	180	158.89	0.15	1.06	1	1	0.88	22	15	AHRI-88SE	60	53	48	39	32	30	59	58	54	53	44	45
VAV-3	ETI	1	SDR	06	GENERIC	530	53	1	0.28	0.25	RH Controls / RH Coil	310	65	85.07	6.78	180	158.24	0.15	0.61	1	1	0.41	22	15	AHRI-88SE	60	53	48	39	32	30	59	58	54	53	44	45
VAV-4	ETI	1	SDR	06	GENERIC	530	53	1	0.28	0.25	RH Controls / RH Coil	470	65	84.95	10.19	180	158.59	0.15	1.02	1	1	0.85	22	15	AHRI-88SE	60	53	48	39	32	30	59	58	54	53	44	45
VAV-5	ETI	1	SDR	08	GENERIC	1000	105	1	0.36	0.25	RH Controls / RH Coil	940	65	84.97	20.4	180	168.52	0.32	3.8	1	1	7.74	22	18	AHRI-88SE	60	52	47	40	33	30	62	60	56	54	48	45
VAV-6	ETI	1	SDR	10	GENERIC	1600	165	1	0.42	0.25	RH Controls / RH Coil	1100	65	85.05	23.97	180	157.26	0.38	2.26	1	1	3.9	24	16	AHRI-88SE	61	51	46	39	31	29	63	60	58	56	47	45
VAV-7	ETI	1	SDR	06	GENERIC	530	53	1	0.28	0.25	RH Controls / RH Coil	425	65	85.09	9.28	180	157.9	0.15	0.9	1	1	0.73	22	15	AHRI-88SE	60	53	48	39	32	30	59	58	54	53	44	45
VAV-8	ETI	1	SDR	06	GENERIC	1000	105	1	0.36	0.25	RH Controls / RH Coil	615	65	85.04	13.39	180	156.46	0.32	1.22	1	1	1.07	22	16	AHRI-88SE	60	52	47	40	33	30	62	60	56	54	48	45
VAV-9	ETI	1	SDR	10	GENERIC	1600	165	1	0.42	0.25	RH Controls / RH Coil	1065	65	85.06	23.22	180	156.17	0.38	2.09	1	1	3.37	24	16	AHRI-88SE	61	51	46	39	31	29	63	60	58	56	47	45
VAV-10	ETI	1	SDR	06	GENERIC	530	530	1	0.28	0.25	RH Controls / RH Coil	370	65	84.91	8	180	156.81	0.15	0.74	1	1	0.56	22	15	AHRI-88SE	60	53	48	39	32	30	59	58	54	53	44	45

\*\*0 signifies a NC value (induced or discharge) that is less than 15  
\*Actual coil APD shown is at max airflow, not heating airflow.

**PARTIAL FIRST FLOOR HVAC PLAN AREA "A"**  
SCALE 1/8" = 1'-0"



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Hibbing, MN 55746

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Email: dgroup@the-dgroup.org

Web Address: www.thedgroup.org



1919 Main Ave  
International Falls, MN 56649

Phone 218-283-6013  
Fax 218-283-8678

PROJECT NAME  
COOK COUNTY FAMILY YMCA  
Grand Marais, MN

PROJECT NO.  
016-13

DATE  
MAY '22, 2013

DRAWN  
TDG

REVISIONS  
XXX

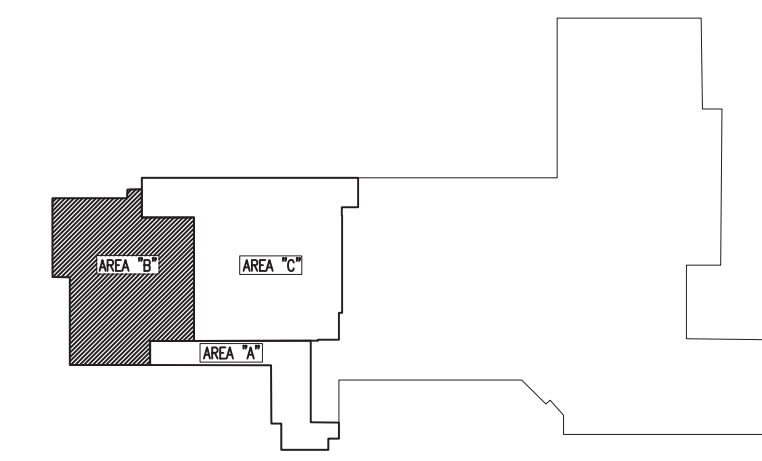
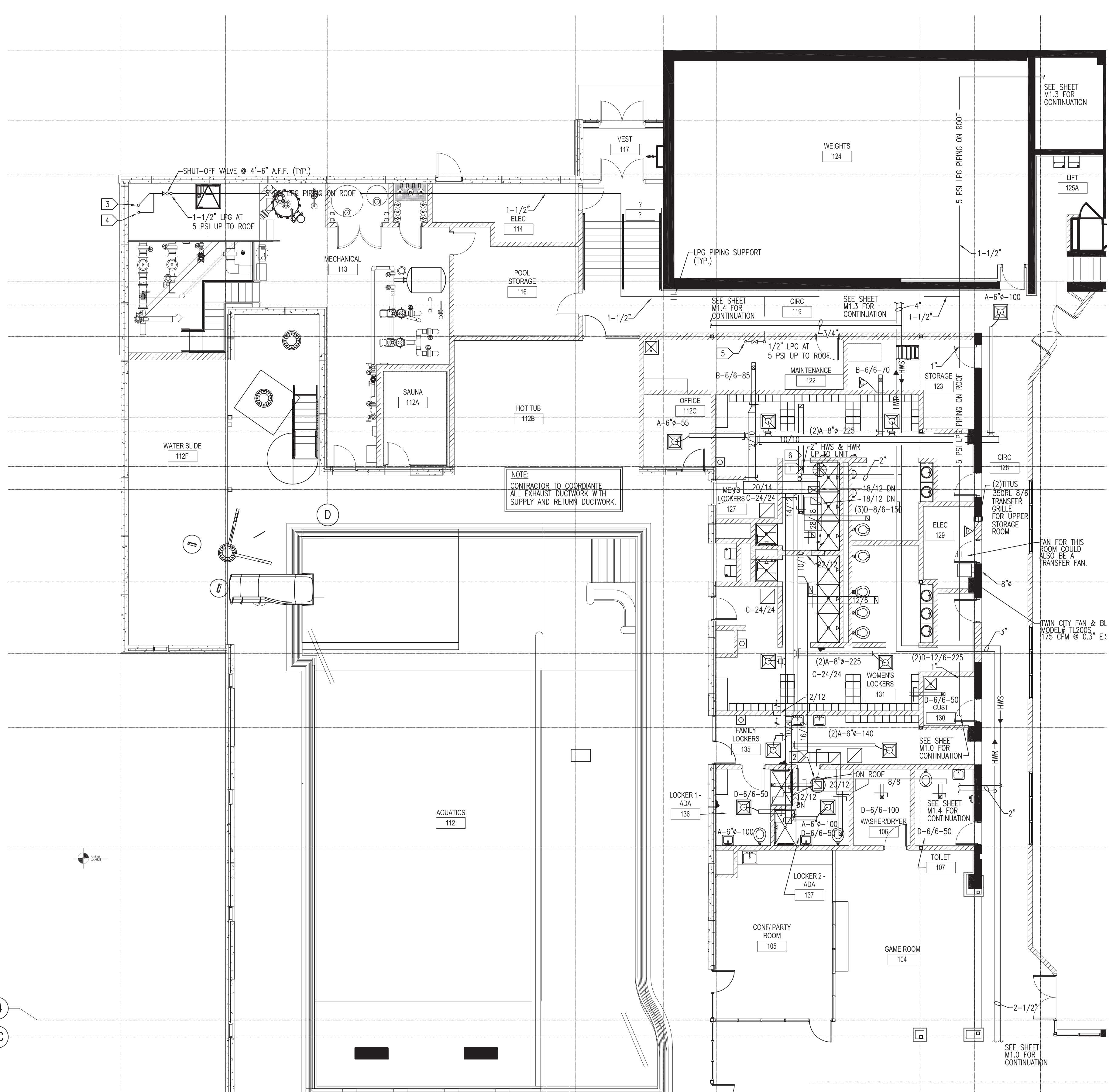
CERTIFICATION  
I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

OTTO W. MAKI  
ENGINEER  
23569  
REG. NO.

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**PARTIAL FIRST FLOOR HVAC PLAN AREA "A"**

**M**  
**1.0**



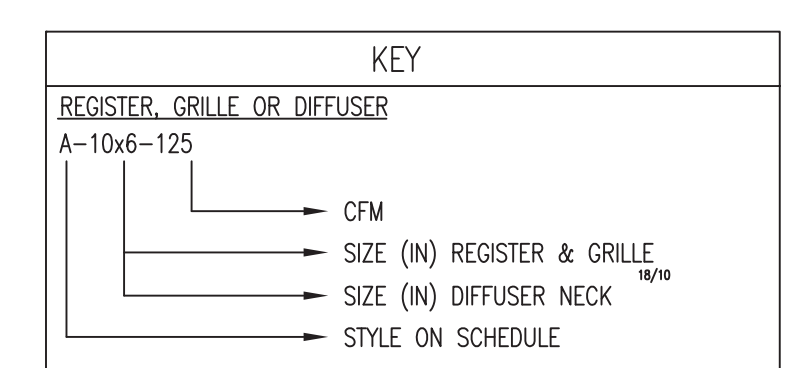
KEY PLAN  
NO SCALE

GENERAL NOTES:

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- ALL TEMPERATURE CONTROL LINES SHALL BE CAPPED OFF AIRTIGHT TO MAINTAIN PROPER OPERATION OF THE EXISTING TEMPERATURE CONTROL SYSTEM WHEN REMOVING EXISTING TEMPERATURE CONTROL ITEMS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING ALL NEW PENETRATIONS OF FLOORS, WALLS AND CEILINGS (NEW AND EXISTING CONSTRUCTION) WHERE NEW PIPING AND DUCTWORK PASS THROUGH FIRE RATED PARTITIONS. REFER TO SPECIFICATION SECTION "FIRE STOPPING".
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MECHANICAL NOTES:

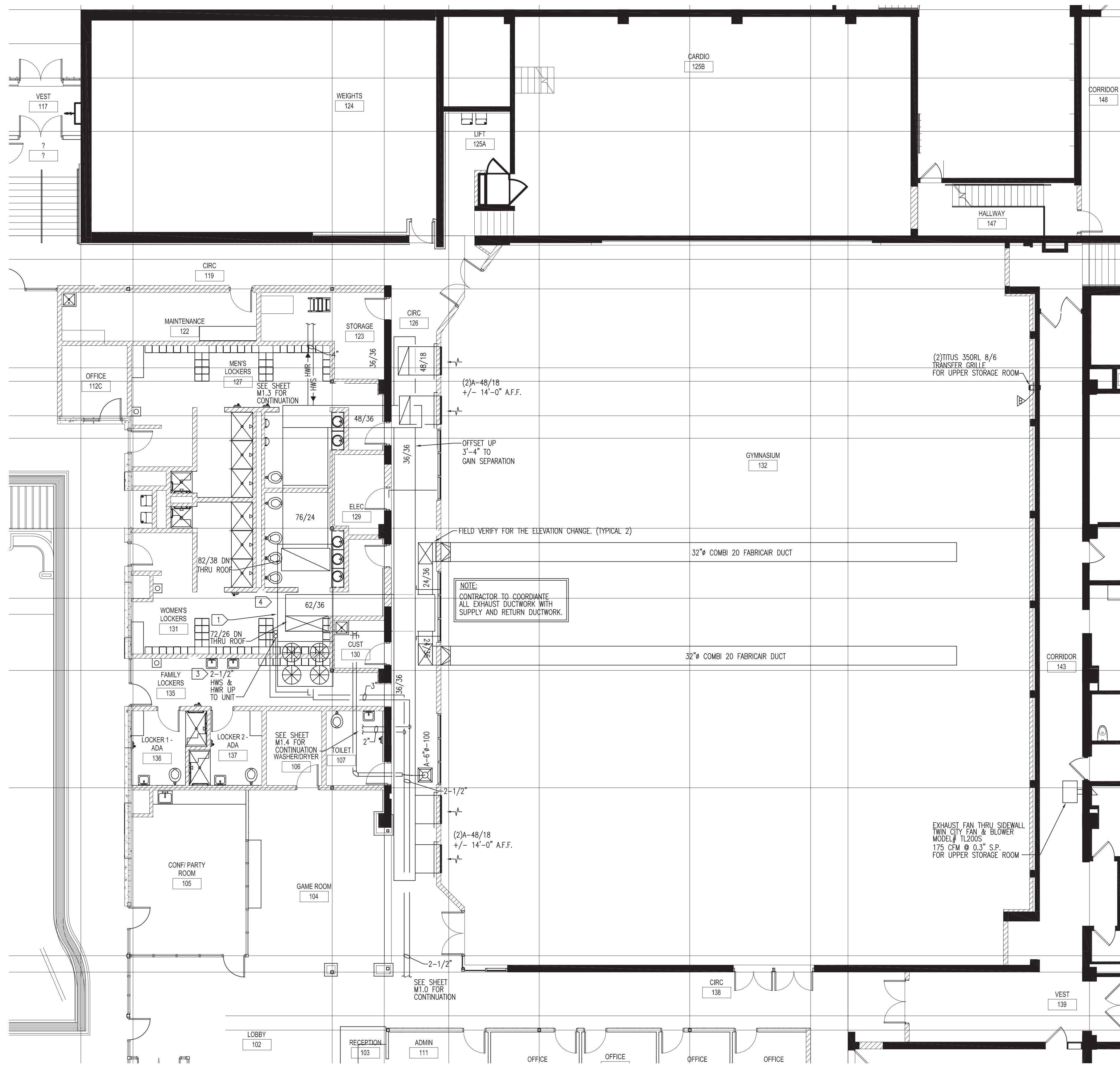
- JOHNSON CONTROLS SERIES 5 UNIT, MODEL# J052F00R4AZZ2  
HEATING PERFORMANCE:  
199.5 MBH; 1600 CFM @ 1.1" ESP; EAT-24.0  
EWT-180; LWT-160; 20.0 GPM; 40% PROP. GLYCOL  
EPD-11.0 FT HD; APD-09" W.G.  
COOLING PERFORMANCE:  
TOTAL CAPACITY-62.5 MBH; SENSIBLE CAPACITY-44.4 MBH  
EUB-65.5; LUB-59.6; EWB-65.9; LWB-56.6; 5 TON  
UNIT ON ROOF. PROVIDE AND INSTALL UNIT ON ROOF CURB.  
ALL EXTERIOR DUCTWORK AND PIPING TO HAVE 3" INSULATION WITH WEATHER PROOF COVERS. SEAL ROOF PENETRATIONS WEATHERTIGHT.
- TWIN CITY FAN & BLOWER, MODEL# BCRU 120B  
1600 CFM @ 0.625" E.S.P.  
SEAL ROOF PENETRATIONS WEATHERTIGHT.
- 3/4" LPG AT 5 PSI TO SERVE POOL HEATER. 990 MBH INPUT. PROVIDE AND INSTALL DRIP LEG, GAS COCK, UNION AND REGULATOR. COORDINATE INSTALLATION WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- 3/4" LPG AT 5 PSI TO SERVE POOL HEATER. 500 MBH INPUT. PROVIDE AND INSTALL DRIP LEG, GAS COCK, UNION AND REGULATOR. COORDINATE INSTALLATION WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- 3/4" LPG AT 5 PSI TO SERVE DRYER. 24 MBH INPUT. PROVIDE AND INSTALL DRIP LEG, GAS COCK, UNION AND REGULATOR. COORDINATE INSTALLATION WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- RTU CURBS TO BE INSULATED BY ROOFING CONTRACTOR. SEE MANUFACTURER'S CUT AWAY OF ROOF CURB DETAIL IN SHOP DRAWINGS.



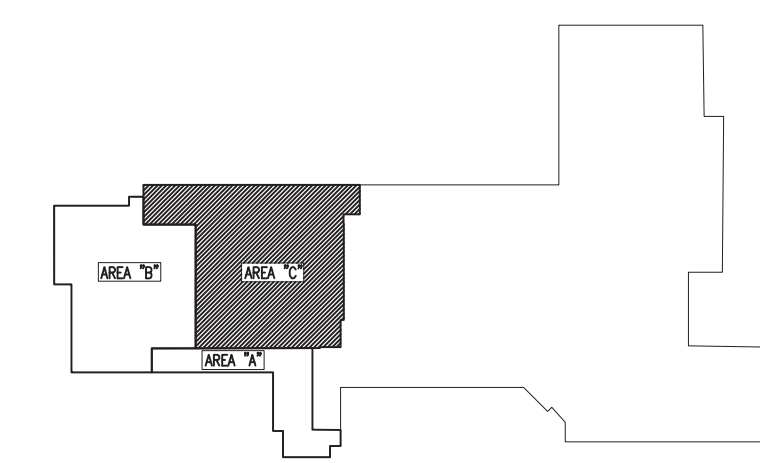
REGISTER SCHEDULE						
MARK	MODEL	MANUFACTURER	USE	TYPE	LOCATION	REMARKS
A	S1200	TUTTLE & BAILEY	SUPPLY	REGISTER	MECH 113	NOTE 1, 2
B	T64	TUTTLE & BAILEY	RETURN	REGISTER	MECH 113	NOTE 1, 2
C	CRES00	TUTTLE & BAILEY	EXHAUST	DIFFUSER	MECH 113	NOTE 1, 2, 3
D	T700	TUTTLE & BAILEY	RETURN	REGISTER	MECH 113	NOTE 1, 2, 3

- NOTES:  
1. FURNISH ALL HARDWARE REQUIRED TO PROVIDE A COMPLETE INSTALLATION.  
2. COLOR TO BE DETERMINED BY THE ARCHITECT.  
3. PAINT INSIDE OF RETURN DUCTWORK BLACK.

PARTIAL FIRST FLOOR HVAC PLAN AREA "B"  
SCALE: 1/8" = 1'-0"



PARTIAL FIRST FLOOR HVAC PLAN AREA "C"  
SCALE: 1/8" = 1'-0"



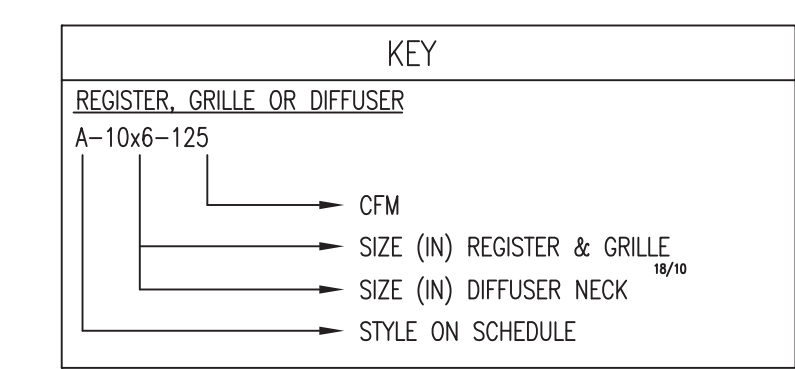
KEY PLAN  
NO SCALE

GENERAL NOTES:

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- CONTRACTOR SHALL INSTALL EQUIPMENT, PIPING AND DUCTWORK IN SUCH A MANNER AS TO AVOID ALL INTERFERENCE WITH THE NEW AND EXISTING EQUIPMENT AND SYSTEMS.
- WHEN REMOVING EXISTING EQUIPMENT AS SHOWN AND AS NOTED, INCLUDING, BUT NOT LIMITED TO PLUMBING FIXTURES, DUCTWORK, TEMPERATURE CONTROLS, CONTROL WIRING AND ANY OTHER DEMOLITION WORK, ALL PIPING, WIRING, DUCTWORK, AND ANY OTHER CONNECTIONS SHALL BE CAPPED OFF AIRTIGHT BELOW FLOORS, INSIDE WALLS AND/OR ABOVE CEILINGS. THE FLOORS, WALLS, AND/OR CEILINGS SHALL BE PATCHED TO MATCH THE EXISTING CONDITIONS BY THE MECHANICAL CONTRACTOR.
- ALL TEMPERATURE CONTROL LINES SHALL BE CAPPED OFF AIRTIGHT TO MAINTAIN PROPER OPERATION OF THE EXISTING TEMPERATURE CONTROL SYSTEM WHEN REMOVING EXISTING TEMPERATURE CONTROL ITEMS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING ALL NEW PENETRATIONS OF FLOORS, WALLS AND CEILINGS. NEW AND EXISTING CONSTRUCTION WHERE NEW PIPING AND DUCTWORK PASS THROUGH FIRE RATED PARTITIONS, REFER TO SPECIFICATION SECTION "FIRE STOPPING".
- ALL PENETRATIONS THAT REQUIRE A LINTEL TO BE DONE BY OTHERS. ALL PENETRATIONS THROUGH BLOCK TO BE COORDINATED WITH MASONRY CONTRACTOR.

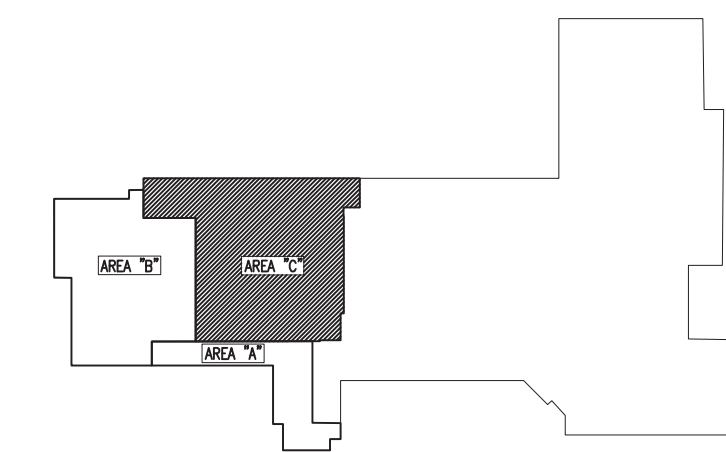
MECHANICAL NOTES:

- JOHNSON CONTROLS SERIES 40 UNIT, MODEL# V34W2448KXK0001  
HEATING PERFORMANCE:  
472.3 MBH; 16000 CFM @ 1.5" ESP  
EDB-55; LDB-92.5; 27.5 AIR TEMP RISE  
48 GPM; 40% PROP. 0.1/0.0L  
COOLING PERFORMANCE:  
TOTAL CAPACITY-542.0 MBH; SENSIBLE CAPACITY-330.5 MBH  
EDB-76.1; LDB-56.8; EWB-68.3; LWB-56.8; 40 TON  
UNIT ON ROOF. PROVIDE AND INSTALL UNIT ON ROOF CURB.
- NOT USED.
- PIPING ON ROOF. ALL PIPING TO HAVE 3" INSULATION WITH WEATHER PROOF COVERS. SEAL ROOF PENETRATIONS WEATHERTIGHT. PIPE UP THRU ROOF WITHIN UNIT CURB.
- RTU CURBS TO BE INSULATED BY ROOFING CONTRACTOR. SEE MANUFACTURER'S CUT AWAY OF ROOF CURB DETAIL IN SHOP DRAWINGS.



MARK	MODEL	MANUFACTURER	USE	TYPE	LOCATION	REMARKS
A	A1110	TUTTLE & BAILEY	EXHAUST	DIFFUSER	WALL	NOTE 1, 2, 3

- NOTES:
- FURNISH ALL HARDWARE REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
  - COLOR TO BE DETERMINED BY THE ARCHITECT.
  - PAINT INSIDE OF RETURN DUCTWORK BLACK.



KEY PLAN

NO SCALE

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- ALL PENETRATIONS THAT REQUIRE A LUNTEL TO BE DONE BY OTHERS. ALL PENETRATIONS THROUGH BLOCK TO BE COORDINATED WITH MASONRY CONTRACTOR.

MECHANICAL NOTES:

- JOHNSON CONTROLS SERIES 10 UNIT, MODEL# J10ZHC0004M46  
HEATING PERFORMANCE:  
238.4 MBH; 3500 CFM; EAT-24.0  
EWT-180; LWT-160; 25.0 GPM  
FPD-4.0 FT HD; APD-0.029" S.P.  
COOLING PERFORMANCE:  
TOTAL CAPACITY-132.5 MBH; SENSIBLE CAPACITY-76.9 MBH  
EDB-72.5; LDB-59.9; EWB-67.9; LWB-55.6; 10 TON  
UNIT ON ROOF. PROVIDE AND INSTALL UNIT ON ROOF CURB.  
ALL EXTERIOR DUCTWORK AND PIPING TO HAVE 3" INSULATION WITH WEATHER PROOF COVERS. SEAL ROOF PENETRATIONS WEATHERTIGHT.
- RTU CURBS TO BE INSULATED BY ROOFING CONTRACTOR. SEE MANUFACTURER'S CUT AWAY OF ROOF CURB DETAIL IN SHOP DRAWINGS.

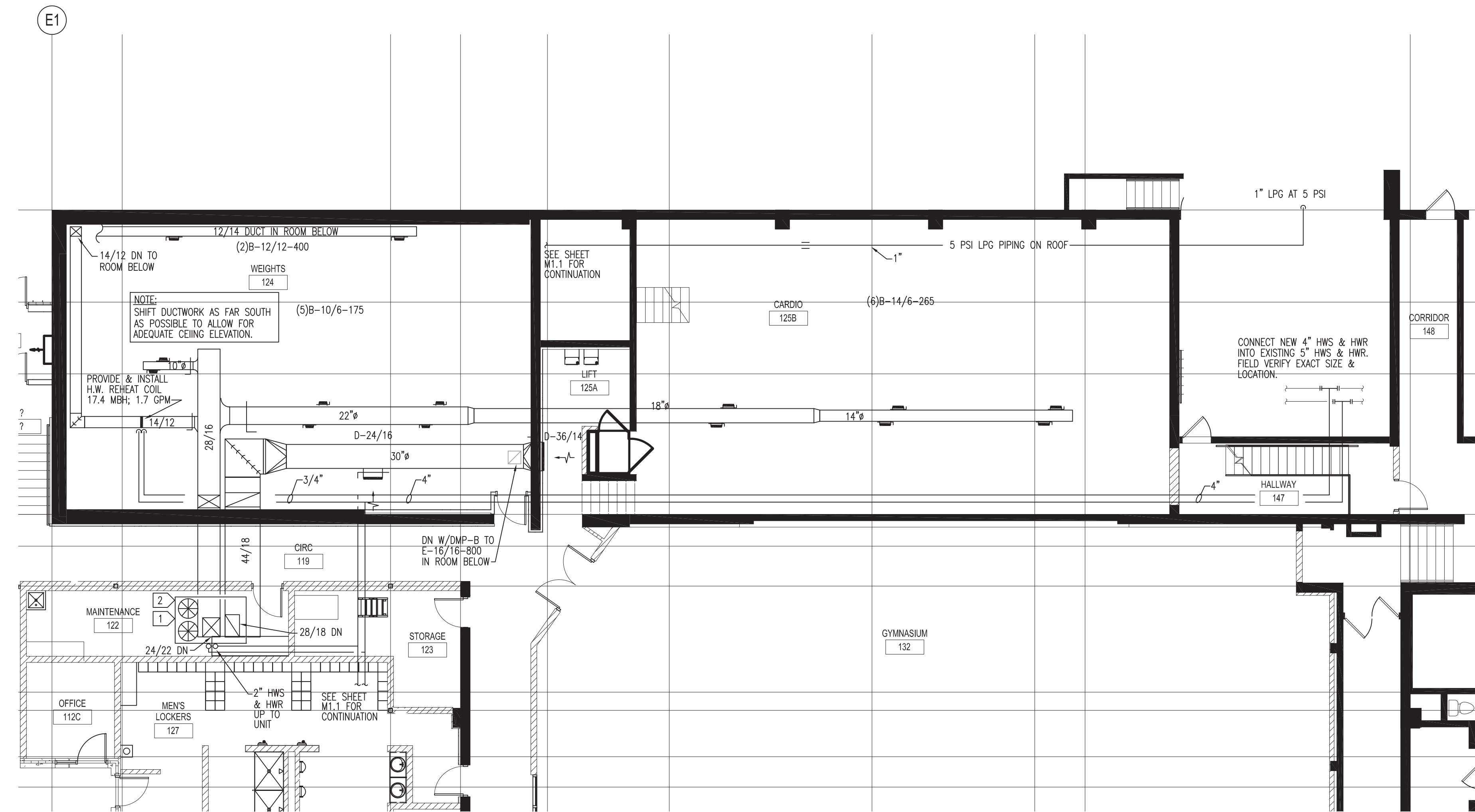
KEY

REGISTER, GRILLE OR DIFFUSER

A-10x6-125

MARK	MODEL	MANUFACTURER	USE				LOCATION	REMARKS
			SUPPLY	RETURN	REGISTER	DIFFUSER		
A	S1200	TUTTLE & BAILEY	X					NOTE 1, 2
B	164	TUTTLE & BAILEY	X		X		X	NOTE 1, 2
C	CR6500	TUTTLE & BAILEY	X		X		X	NOTE 1, 2, 3
D	1700	TUTTLE & BAILEY	X	X	X		X	NOTE 1, 2, 3
E	1700	TUTTLE & BAILEY	X	X	X		X	NOTE 1, 2, 3

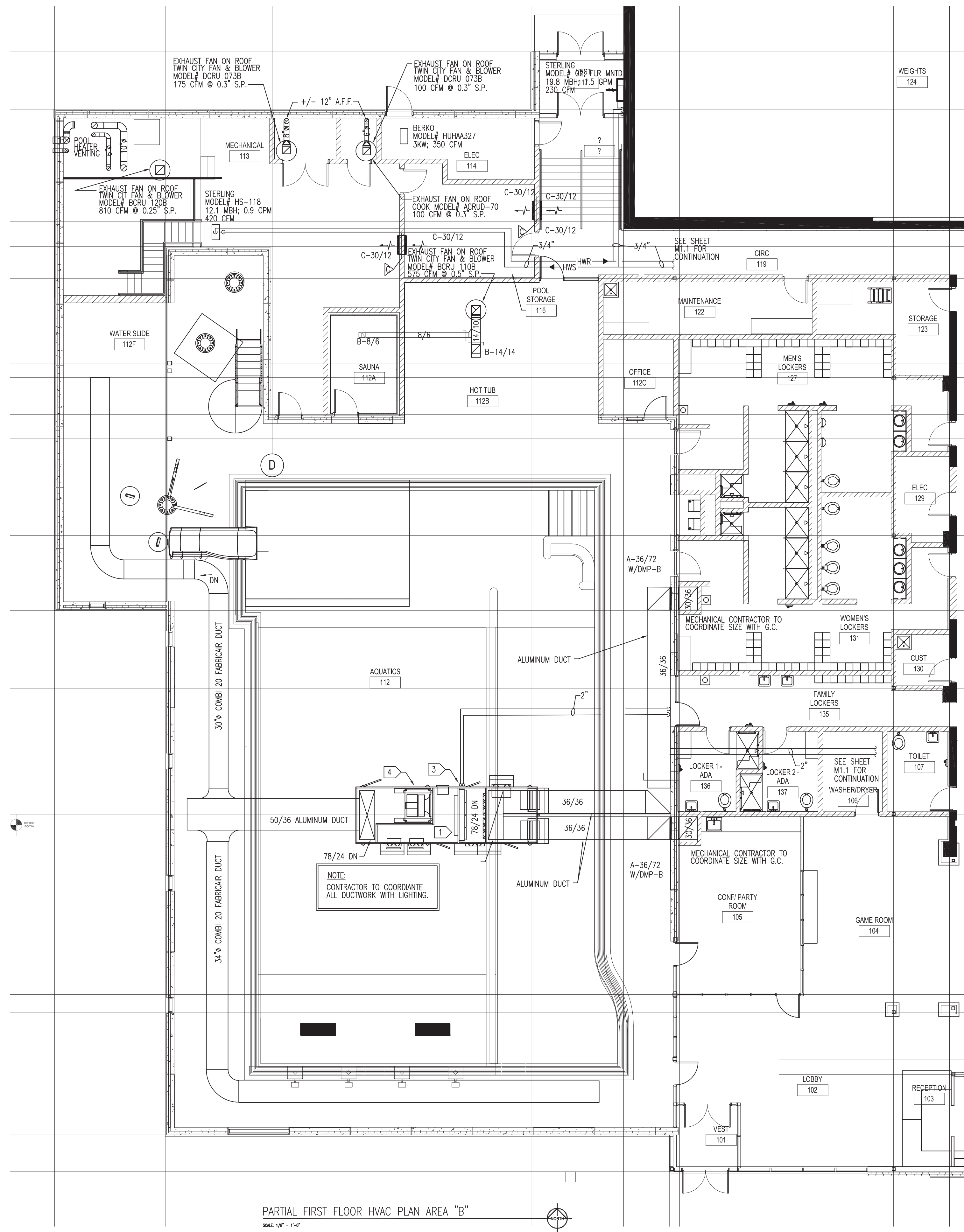
- NOTES:
- FURNISH ALL HARDWARE REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
  - COLOR TO BE DETERMINED BY THE ARCHITECT.
  - PAINT INSIDE OF RETURN DUCTWORK BLACK.



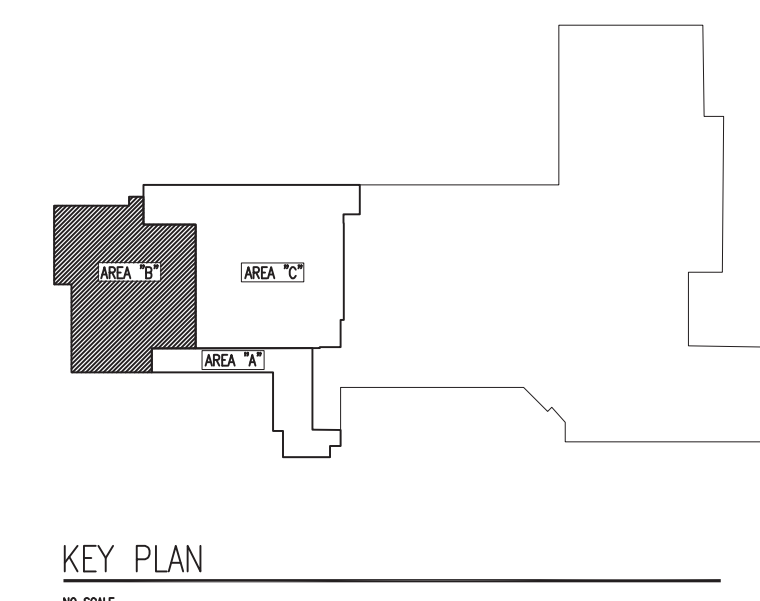
PARTIAL FIRST FLOOR HVAC PLAN AREA "C"

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





PARTIAL FIRST FLOOR HVAC PLAN AREA "B"  
SCALE: 1/8" = 1'-0"

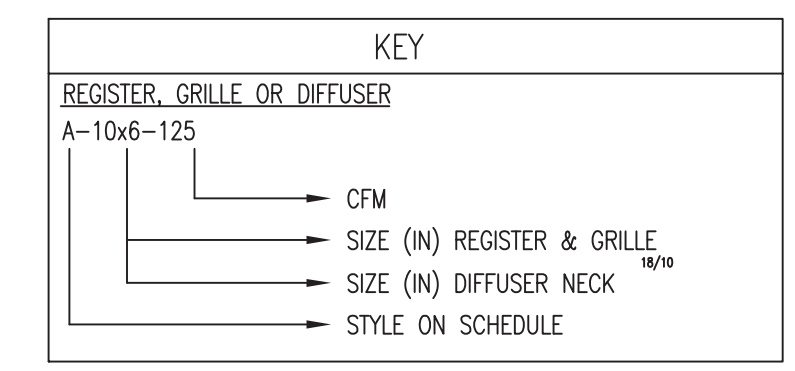


GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES IN ORDER TO AVOID ALL INTERFERENCE.
- CONTRACTOR SHALL VERIFY ALL EXISTING SIZES, FUNCTIONS, LOCATIONS AND CONDITIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY FITTINGS AND/OR APPURTENANCES FOR THE COMPLETE INSTALLATION, OPERATION AND CONNECTION OF THE EQUIPMENT SHOWN AND/OR SPECIFIED.
- ALL MATERIALS REMOVED BY THIS CONTRACTOR SHALL BE REVIEWED BY THE OWNER. MATERIAL NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES. MATERIAL THE OWNER WANTS TO KEEP SHALL BE STORED BY THE OWNER. THIS CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING EQUIPMENT, PIPING, DUCTS, ETC. AS INDICATED ON THE DRAWINGS OR AS REQUIRED TO COMPLETE THE WORK AND CAP OFF PIPING OR DUCTS AIRTIGHT THAT ARE NOT TO BE REUSED UNDER OR BEHIND FINISHED SURFACES. CONCEALED ITEMS NOT TO BE REUSED MAY BE ABANDONED IF DISCONNECTED FROM THE SYSTEM.
- CONTRACTOR SHALL INSTALL EQUIPMENT, PIPING AND DUCTWORK IN SUCH A MANNER AS TO AVOID ALL INTERFERENCE WITH THE NEW AND EXISTING EQUIPMENT AND SYSTEMS.
- WHEN REMOVING EXISTING EQUIPMENT AS SHOWN AND AS NOTED, INCLUDING, BUT NOT LIMITED TO PLUMBING FIXTURES, DUCTWORK, TEMPERATURE CONTROL SYSTEMS, CONTROL WIRING AND ANY OTHER DEMOLITION WORK, ALL PIPING, WIRING, DUCTWORK AND ANY OTHER CONNECTIONS SHALL BE CAPPED OFF AIRTIGHT BELOW FLOORS, INSIDE WALLS AND/OR ABOVE CEILINGS. THE FLOORS, WALLS, AND/OR CEILINGS SHALL BE PATCHED TO MATCH THE EXISTING CONDITIONS BY THE MECHANICAL CONTRACTOR.
- ALL TEMPERATURE CONTROL LINES SHALL BE CAPPED OFF AIRTIGHT TO MAINTAIN PROPER OPERATION OF THE EXISTING TEMPERATURE CONTROL SYSTEM WHEN REMOVING EXISTING TEMPERATURE CONTROL ITEMS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING ALL NEW PENETRATIONS OF FLOORS, WALLS AND CEILINGS. NEW AND EXISTING CONSTRUCTION WHERE NEW PIPING AND DUCTWORK PASS THROUGH FIRE RATED PARTITIONS. REFER TO SPECIFICATION SECTION "FIRE STOPPING".
- ALL PENETRATIONS THAT REQUIRE A LINTEL TO BE DONE BY OTHERS. ALL PENETRATIONS THROUGH BLOCK TO BE COORDINATED WITH MASONRY CONTRACTOR.

MECHANICAL NOTES:

- SERESCO UNIT, MODEL# NY-018-NB-X-N6FB5153W2E400  
HEATING PERFORMANCE:  
513.0 MBH; 15,000 CFM @ 2.25" ESP; 3750-7500 O.A.  
EWI-180; LWI-150; 40.0 CFM  
PROVIDE AND INSTALL UNIT ON ROOF CURB.
- NOT USED.
- PIPING UP THRU ROOF. ALL PIPING TO HAVE 3" INSULATION WITH WEATHER PROOF COVERS. SEAL ROOF PENETRATIONS WEATHERTIGHT.
- RTU CURBS TO BE INSULATED BY ROOFING CONTRACTOR. SEE MANUFACTURER'S CUT AWAY OF ROOF CURB DETAIL IN SHOP DRAWINGS.



REGISTER SCHEDULE								
MARK	MODEL	MANUFACTURER	USE			LOCATION		REMARKS
			SUPPLY	RETURN	EXHAUST	REGISTER	GRILLE	
A	A110D	TUTTLE & BAILEY	X		X	X	X	NOTE 1, 2, 3, 4
B	T70D	TUTTLE & BAILEY	X	X	X	X	X	NOTE 1, 2
C	T70D	TUTTLE & BAILEY	X	X	X	X	X	NOTE 1, 2, 3

- NOTES:
- FURNISH ALL HARDWARE REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
  - COLOR TO BE DETERMINED BY THE ARCHITECT.
  - PAINT INSIDE OF RETURN DUCTWORK BLACK.
  - GRILLE TO BE ALUMINUM.



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PROJECT NAME  
COOK COUNTY FAMILY YMCA  
Grand Marais, MN

PROJECT NO.  
016-13

DATE  
MAY 22, 2013

DRAWN  
TDG

REVISIONS  
XXX

CERTIFICATION  
I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

OTTO W. MAKI 23569  
ENGINEER REG. NO.

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PARTIAL FIRST FLOOR HVAC PLAN AREA "B"

M  
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