RTU SCHEDULE

MARK	CFM	OSA CFM	TSP W.G.	COOLING				HEATING	ELECTRICAL DATA				BASIS OF DESIGN (AAON)	ROOF CURB P-NET (AES INDUSTRIES)	APPROX. WEIGHT (lbs.)	TONNAGE (NOMINAL)	NOTES	REMARKS
				EAT (°F db)	EAT (°F wb)	TOT. CAP. (MBH)	SEN. CAP. (MBH)	INPUT (MBH)	EVAP. H.P.	MCA	MOCP	VOLTAGE						
RTU-1E	24,800	4,200	1.25	---	---	---	---	---	15.0	318	400	208/3	50DJ064-5KR02 (CARRIER)	---	---	---	EXISTING TO REMAIN	MAIN SALES FLOOR
RTU-2E	12,800	0	0.8	---	---	---	---	---	10.0	285	350	208/3	48DJED44 (CARRIER)	---	---	---	EXISTING TO REMAIN	MAIN SALES FLOOR
RTU-3E	2,800	0	0.5	---	---	---	---	---	1.5	40	45	208/3	50TJQ08 (CARRIER)	---	---	---	DEMO	---
RTU-4E	---	---	---	---	---	---	---	---	---	17.7	25	208/1	TCC024F100BD (TRANE)	---	---	---	EXISTING TO REMAIN	FRONT OF STORE
RTU-5	3,500	700	1.33	77.6	64.4	82.7	73.5	180	2.0	44	60	208/3	RM-007-8-0-BA01-232	060-000 42470	900	7	①②③④	DELI AREA
RTU-6	2,000	400	1.31	76.6	62.1	58.4	48.8	180	1.0	27	40	208/3	RM-A05-8-0-BA01-232	SEE NOTES	850	5	①②③④⑥	PHARMACY
RTU-7	1,000	150	0.57	78.8	64.0	30.8	25.7	45	0.88	20	30	208/3	HB-003-8-V-AA01-212	060-000 42469	600	3	①②③④	MEZZANINE

NOTES:
① KROGER MAINTAINS A NATIONAL ACCOUNT WITH AAON, INC. ROOFTOP UNITS WILL BE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF ROOFTOP UNITS.
② KROGER MAINTAINS A NATIONAL ACCOUNT WITH AES INDUSTRIES. ROOFTOP UNIT CURBS WILL BE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF ROOFTOP UNIT CURBS.
③ UNIT SHALL HAVE SENSORS/THERMOSTATS AS SPECIFIED FOR CPC ENERGY MANAGEMENT SYSTEM.
④ SEE SPECIFICATIONS FOR OPTIONS, CONTROLS AND ACCESSORIES REQUIRED.
⑤ PROVIDED WITH HEAT RECLAIM COIL.
⑥ KROGER MAINTAINS A NATIONAL ACCOUNT WITH AES INDUSTRIES. ROOFTOP UNIT CURB ADAPTERS WILL BE PROVIDED BY KROGER. CONTACT SETH BELL, AES INDUSTRIES 800-786-0402. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF ROOFTOP UNIT CURB ADAPTERS.

FAN SCHEDULE

MARK	TYPE	AIR FLOW (cfm)	EXT. S.P.	DRIVE	MAX. RPM	ELEC. DATA			BASIS OF DESIGN	PNET	SERVICE	ROOF CURB	PNET	NOTES
						HP	FLA	VOLTAGE						
EF-1E	EXISTING	---	---	---	---	---	---	---	---	---	COMPRESSOR ROOM	---	---	---
EF-2E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
EF-3E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
EF-4E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
EF-5E	EXISTING	---	---	---	---	---	---	---	---	---	BACK RESTROOMS	---	---	---
EF-6E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
EF-7E	EXISTING	---	---	---	---	---	---	---	---	---	BACK OF STORE	---	---	---
EF-7E	EXISTING	---	---	---	---	---	---	---	---	---	MANAGER'S OFFICE	---	---	---
EF-8E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
EF-9E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
MUA-1E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
MUA-2E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
MUA-3E	DEMO	---	---	---	---	---	---	---	---	---	---	---	---	---
EF-10	CENTRIFUGAL	600	0.125"	DIRECT	1,260	0.18	2.0	115V/1ø	CAPTIVE-AIRE DR12HFA	060-000 42811	FRONT RESTROOMS	AES INDUSTRIES ARC3/CA	060-000 42408	②④
EF-11	CENTRIFUGAL	2,100	0.409"	BELT	1,015	0.50	1.8	208V/3ø	CAPTIVE-AIRE NCA14FA	060-000 42836	DELI HOOD H-1	AES INDUSTRIES ARC3/VE	060-000 42413	⑤
EF-12	CENTRIFUGAL	2,250	0.477"	BELT	775	0.50	1.8	208V/3ø	CAPTIVE-AIRE NCA16FA	060-000 42833	DELI HOOD H-1	AES INDUSTRIES ARC3/VE	060-000 42414	⑤
EF-13	CENTRIFUGAL	750	1.00"	BELT	1,160	0.33	7.0	115V/1ø	CAPTIVE-AIRE NCA14HPFA	060-000 42849	DOUBLE RACK OVEN	AES INDUSTRIES ARC3/VE	060-000 42413	①
EF-14	CENTRIFUGAL	600	0.320"	DIRECT	1,090	0.33	4.1	115V/1ø	CAPTIVE-AIRE DU33HFA	060-000 42824	SEAFOOD HOOD H-2	AES INDUSTRIES ARC3/VE	060-000 42412	④⑤
EF-15	CENTRIFUGAL	1,688	0.411"	BELT	1,255	0.75	2.7	208V/3ø	CAPTIVE-AIRE NCA14HPFA	060-000 42871	CHARBROIL GRILLE HOOD H-3	AES INDUSTRIES ARC3/VE	060-000 42413	⑤
EF-16	NOT USED	---	---	---	---	---	---	---	---	--- ---	--- ---	--- ---	--- ---	---
EF-17	CENTRIFUGAL	900	0.125"	DIRECT	1,115	0.25	4.0	115V/1ø	CAPTIVE-AIRE DR30HFA	060-000 42810	SEAFOOD EXHAUST	--- ---	SEE NOTES	②④
MUA-4	CENTRIFUGAL	1,260	0.581"	BELT	735	0.50	1.8	208V/3ø	CAPTIVE-AIRE NSAU1-G10	060-000 42803	DELI HOOD H-1	AES INDUSTRIES ARC3/CA	060-000 42410	⑤
MUA-5	CENTRIFUGAL	1,350	0.593"	BELT	750	0.50	1.8	208V/3ø	CAPTIVE-AIRE NSAU1-G10	060-000 42851	DELI HOOD H-1	AES INDUSTRIES ARC3/CA	060-000 42410	⑤

NOTE: FANS ARE PROVIDED BY KROGER. CURBS & CURB ADAPTERS ARE PROVIDED BY AES INDUSTRIES. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF FANS AND CURBS.

① FAN TO BE ON WHEN EQUIPMENT IS IN OPERATION
② FAN TO RUN CONTINUOUSLY
③ FAN ON SWITCH
④ PROVIDE WITH SPEED CONTROL
⑤ FAN SHALL BE INTERLOCKED WITH COOKING APPLIANCE AND AUTOMATICALLY ACTIVATED WHEN COOKING OPERATIONS OCCUR
⑥ KROGER MAINTAINS A NATIONAL ACCOUNT WITH AES INDUSTRIES. ROOFTOP UNIT CURB ADAPTERS WILL BE PROVIDED BY KROGER. CONTACT DEAN CLEONDIS, AES INDUSTRIES 800-786-0402. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF ROOFTOP UNIT CURB ADAPTERS.

KITCHEN HOOD SCHEDULE

MARK	SIZE (WxLxH)	EXHAUST			SUPPLY			PNET	BASIS OF DESIGN	NOTES
		CFM	THROAT SIZE	P.D. (IN. W.G.)	CFM	THROAT SIZE	P.D. (IN. W.G.)			
H-1	60x264x24	2,250 2,100	(1) 10x21 (1) 10x20	.477" (AT COLLAR) .409" (AT COLLAR)	1,350 1,260	(2) 8x16 (2) 8x16	.137" (AT COLLAR) .113" (AT COLLAR)	060-000 42536	CAPTIVE-AIRE MODEL 6024 ND-PSP-F	①②③
H-2	48x48x24	600	9x8	.320" (AT COLLAR)	---	---	---	060-000 42540	CAPTIVE-AIRE MODEL 4824 VH1	①②③
H-3	48x60x30	1,688	13x12	.411" (AT COLLAR)	---	---	---	060-000 42548	CAPTIVE-AIRE MODEL 6030 NDI	①②③

① PROVIDE CONTROL PANEL FOR FANS AND LIGHTS ON FRONT CORNER OF HOOD. HOOD, FANS, AND DUCTS SHALL BE CONTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA 96.
② HOODS ARE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF HOODS.
③ ANSUL SYSTEM PROVIDED AND INSTALLED BY KROGER. COORDINATE ANSUL INSTALLATION TO CONCEAL PULL STATION TUBING IN WALL. DO NOT SURFACE MOUNT!

GAS-FIRED UNIT HEATER SCHEDULE

MARK	CFM	INPUT	OUTPUT	MOTOR DATA		SERVICE	REMARKS
				HP	VOLTAGE		
UH-1E	---	200 MBH	---	---	120/1/60	BACK OF STORE	EXISTING TO REMAIN
UH-2E	---	200 MBH	---	---	120/1/60	DOCK	EXISTING TO REMAIN

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	SIZE (INCHES)		FINISH	O.B.D.	BASIS OF DESIGN (TITUS)	NOTES
		NECK	FACE				
Ⓐ	SUPPLY	6"ø	24x24	WHITE	NO	TDC-A4	①
Ⓑ	SUPPLY	8"ø	24x24	WHITE	NO	TDC-A4	①
Ⓒ	SUPPLY	10"ø	24x24	WHITE	NO	TDC-A4	①
Ⓓ	SUPPLY	12"ø	24x24	WHITE	NO	TDC-A4	①
Ⓔ	SUPPLY	6"ø	12x12	WHITE	NO	TDC-A4	①
Ⓕ	SUPPLY	8"ø	12x12	WHITE	NO	TDC-A4	①
Ⓖ	SUPPLY	12"ø	24x24	WHITE	NO	TDC-A3	①
Ⓗ	SUPPLY	8"ø	24x24	WHITE	NO	TDC-S2	①
Ⓘ	SUPPLY	10"ø	24x24	WHITE	NO	TDC-S2	①
Ⓙ	SUPPLY	12"ø	24x24	WHITE	NO	TDC-S2	①
Ⓚ	SUPPLY	14"ø	24x24	WHITE	NO	TDC-S2	①
Ⓛ	SUPPLY	16"ø	24x24	WHITE	NO	TDC-S2	①
Ⓜ	SUPPLY	SEE DWGS.	24x24	WHITE	NO	ACCUTHERM MODEL TF-HC	①
Ⓝ	SUPPLY	SEE DWGS.	SEE DWGS.	WHITE	NO	300-RS	①②
Ⓞ	RETURN / TRANSFER EXHAUST	SEE DWGS.	SEE DWGS.	WHITE	NO	350-RL	①③④⑤

SOME AIR DISTRIBUTION DEVICES MAY NOT BE USED. VERIFY USAGE WITH FLOOR PLAN.

NOTES:
① DIFFUSER MOUNTING STYLE SHALL BE CONFIRMED WITH SHEET A1.4, REFLECTED CEILING PLAN
② DISCHARGE PATTERN SHALL BE ADJUSTABLE
③ OMIT SCREW HOLES ON Ⓞ IN LAY-IN CEILINGS
④ PROVIDE 4" HIGH SQUARE-TO-ROUND TRANSITION OR 22x22 DUCT COLLAR ON Ⓞ AS NOTED
⑤ PROVIDE O.B.D.s IN NECK OF GRILLES IN SHEETROCK CEILINGS

FAN COIL UNIT SCHEDULE

MARK	CFM (HIGH)	MIN. O.A.	EXT. S.P.	MOTOR DATA	COOLING COIL DATA				HEATING DATA		LOCATION	REMARKS
					TOTAL	SENSIBLE	E.A.T. DB.	E.A.T. WB.	EAT	OUTPUT		
FCU-1	325	-0-	0.10"	115/1/60 20 W	9,000	---	80	67	47	9,400	ACCOUNTING	EQUAL TO CARRIER 40MVQ009
FCU-2	1,200	-0-	0.10"	208/1/60 74 W	36,000	---	80	67	---	---	ECR ROOM	EQUAL TO CARRIER 40QNC036

CONDENSING UNIT SCHEDULE

MARK	COOLING CAP 95 AMB.	ELECTRICAL DATA			REMARKS
		MIN. CKT. AMPS	MOCP	VOLTAGE	
CU-1	9,000	12.0	-	115/1/60	EQUAL TO CARRIER 38MVQ009
CU-2	36,000	23.8	40.0	208-203/1/60	EQUAL TO CARRIER 38HDF036

NOTE: PROVIDE WITH LOW AMBIENT KIT AND WIND BAFFLES.

AIR BALANCE SCHEDULE

MARK	DESCRIPTION	S/A CFM	E/A CFM	O/A CFM	O/A PCT.
EF-5E	BACK RESTROOMS		400		
EF-10	FRONT RESTROOMS		600		
EF-11	DELI HOOD, H-1		2,100		
EF-12	DELI HOOD, H-1		2,250		
EF-13	DOUBLE RACK OVEN		750		
EF-14	SEAFOOD HOOD, H-2		* 600		
EF-15	CHARBROIL GRILL HOOD, H-3		* 1,688		
EF-17	SEAFOOD EXHAUST		900		
MUA-4	DELI HOOD, H-1			1,260	
MUA-5	DELI HOOD, H-1			1,350	
RTU-1E	MAIN SALES FLOOR	24,800		4,200	16.94%
RTU-2E	MAIN SALES FLOOR	12,800		0	00.00%
RTU-5	DELI	3,500		700	20.00%
RTU-6	PHARMACY	2,000		400	20.00%
RTU-7	MEZZANINE	1,000		150	15.00%
		44,100	7,000	8,060	

BUILDING AREA: 59,138 S.F.
BUILDING SUPPLY AIRFLOW: 0.75 CFM/S.F.
NET BUILDING PRESSURE: 1,060 CFM
* ONLY RUN WHEN REQUIRED

NOTE: CONTRACTOR TO TEST & BALANCE PER AIR BALANCE SCHEDULE. SEE SPECIFICATION 23 05 93.

MECHANICAL NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODES.
2. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
3. ALL DUCTWORK DIMENSIONS ARE ACTUAL SHEETMETAL DIMENSIONS. ALL DUCTWORK ENCLOSED BY CEILING OR WALL SHALL BE INSULATED. EXPOSED DUCTWORK DOES NOT REQUIRE INSULATION.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED FOR THIS WORK.
5. PROVIDE CONDENSATE DRAINS FOR ALL EQUIPMENT REQUIRING THEM. ALL CONDENSATE DRAINAGE PIPING SHALL BE SCHEDULE 40 PVC WITH SOCKET JOINTS USING SOLVENT CEMENT. PIPING SHALL RUN FULL SIZE OF THE CONNECTION AND SHALL HAVE AN ADEQUATE AIR SEAL TRAP AT EACH UNIT CONNECTION WITH A VENT UPSTREAM OF THE TRAP.
6. THE MECHANICAL DRAWINGS ARE DIAGRAMATIC AND SHOW THE RELATIONSHIP BETWEEN EQUIPMENT AND CONNECTIONS. DO NOT SCALE THE DRAWINGS FOR EXACT SIZE OR LOCATIONS. BUILDING DIMENSIONS SHALL BE TAKEN FROM THE ARCHITECTURAL PLANS AND EQUIPMENT DIMENSIONS SHALL BE TAKEN FROM CERTIFIED EQUIPMENT DATA.
7. IN AIR SYSTEMS GREATER THAN 2000 CFM, SMOKE DETECTORS SHALL BE LOCATED IN THE RETURN AIR STREAM AHEAD OF THE AIR FILTERS AND DOWNSTREAM OF ANY BRANCH CONNECTIONS PRIOR TO FRESH AIR INTAKE. SMOKE DETECTORS SHALL AUTOMATICALLY SHUTDOWN THE RTU WHEN SMOKE IS DETECTED IN THE DUCT.
8. ALL FANS OF 2000 CFM OR MORE SHALL HAVE A MEANS OF AUTOMATIC SHUTDOWN.
9. ROOFTOP UNITS TO HAVE FACTORY MOUNTED FUSED DISCONNECT SWITCH. MAY HAVE NON-FUSED DISCONNECT SWITCH IF APPROVED BY LOCAL AUTHORITIES.
10. COORDINATE THE LOCATION OF ALL PENETRATIONS OF THE STRUCTURE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
11. EXACT LOCATIONS OF ALL CEILING DIFFUSERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
12. ALL FANS, 1/8 HP AND ABOVE, SHALL HAVE NON-FUSED DISCONNECT SWITCH MOUNTED AT THE FAN. MAY BE EQUIPPED WITH NON-FUSED DISCONNECT SWITCH IF APPROVED BY LOCAL AUTHORITIES.
13. ALL RTUS TO BE CONTROLLED BY COMPUTER PROCESS CONTROLS, (CPC), ENERGY MANAGEMENT SYSTEM.
14. MOUNT THERMOSTATS AT 48" AFF UNLESS OTHERWISE NOTED. THERMOSTATS LOCATED ON AN OUTSIDE WALL SHALL BE MOUNTED ON AN INSULATED BASE.

NOTES TO GENERAL CONTRACTOR REGARDING KROGER SUPPLIED, CONTRACTOR INSTALLED EQUIPMENT:

1. CONTRACTOR TO OBTAIN APPROVAL OF ANY DELIVERY DATE CHANGES FROM KROGER PROJECT ENGINEER AND COORDINATE WITH VENDOR.
2. CONTRACTOR TO RECEIVE EQUIPMENT, PROVIDE INSPECTION, AND NOTIFY VENDOR & KROGER PROJECT ENGINEER OF MISSING AND/OR DAMAGED MATERIALS WITHIN 48 HOURS AFTER DELIVERY (20 DAYS FOR CONCEALED DAMAGE).
3. CONTRACTOR TO PROVIDE SAFE HARBORING, INSTALLATION, AND REMOVAL OF ANY SALVAGE MATERIALS.
4. CONTRACTOR TO HANDLE ANY WARRANTY CLAIMS (PRIOR TO STORE OPENING) DIRECTLY WITH VENDOR.

CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

NOTE:
KITCHEN HOOD DUCTWORK AND FANS SHOWN FOR REFERENCE ONLY. REFER TO CAPTIVE-AIRE VENDOR DRAWINGS FOR INSTALLATION DETAILS AND REQUIREMENTS. EQUIPMENT WILL BE FURNISHED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR PER SPECIFICATIONS.

Kroger

KROGER
SW-522
WITHIN THE WALLS
REMODEL
7100 INDEPENDENCE PKWY
PLANO, TX 75025
A DEVELOPMENT OF:
KROGER

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ISSUE LOG

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DATE:	JOB:	SCALE:
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SHEET NO.
M6.1
HVAC SCHEDULES

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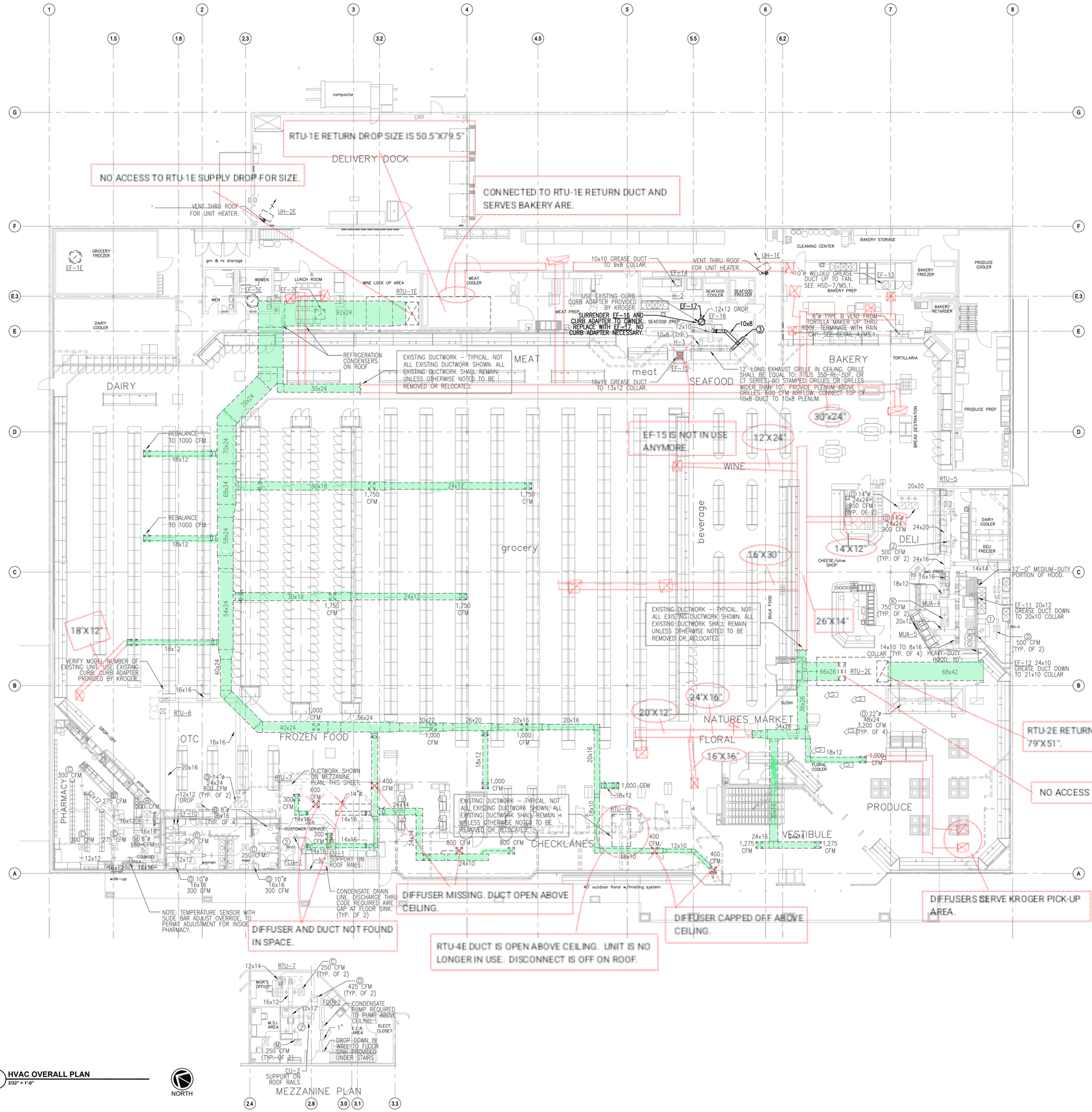

1 **HVAC OVERALL PLAN**
3/32" = 1'-0"

NORTH

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BOD	BOTTOM OF DUCT
CU	CONDENSING UNIT
COMP.	COMPRESSOR
CONN.	CONNECTION
CFM	CUBIC FEET PER MINUTE
DIA.	DIAMETER
DB	DRY BULB
DN.	DOWN
E	EXISTING
EF	EXHAUST FAN
EFF.	EFFICIENCY
ENT.	ENTERING
EBH	ELECTRIC BASEBOARD HEATER
E.A.T.	ENTERING AIR TEMPERATURE
EUH	ELECTRIC UNIT HEATER
E.W.T.	ENTERING WATER TEMPERATURE
FSD	FIRE SMOKE DAMPER
FT.	FEET
GPM	GALLONS PER MINUTE
H.P.	HORSEPOWER
IN.	INCH
LVG.	LEAVING
L.A.T.	LEAVING AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX.	MAXIMUM
MIN.	MINIMUM
MOT	MOTORIZED
MSS	MINI SPLIT SYSTEM
NC	NOISE CRITERION
NOM.	NOMINAL
NO.	NUMBER
OSA	OUTSIDE AIR
OPER.	OPERATING
△ P	PRESSURE DIFFERENTIAL
P.D.	PRESSURE DROP
P.R.V.	PRESSURE REDUCING VALVE
RA(R)	RETURN AIR REGISTER
REQ'D	REQUIRED
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S.P.	STATIC PRESSURE
SAD	SUPPLY AIR DIFFUSER
SA(R)	SUPPLY AIR (REGISTER)
TEMP.	TEMPERATURE
T'STAT	THERMOSTAT
TOD	TOP OF DUCT
(TYP)	TYPICAL
VEL.	VELOCITY
VOL.	VOLUME
WB	WET BULB
VAV	VARIABLE AIR VOLUME

GENERAL NOTES

1. PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGE DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
2. SEE AIR DISTRIBUTION SCHEDULE FOR DUCT RUNOUT SIZES TO SUPPLY DEVICES.

SHEET KEYNOTES

1. INSTALL UW-50 VENT KIT PROVIDED BY HOBART. VENT KIT AUTOMATICALLY REMOVES STEAM/CONDENSATE AT THE COMPLETION OF THE WASH CYCLE. CONTRACTOR TO CONNECT A 10" DUCT TO THE VENT KIT OPENING AND RUN THROUGH ROOF TERMINATING DUCT WITH AN ELBOW. SEE HSD-8/M5.1.
2. PROVIDE AND INSTALL HVAC REFRIGERATION PIPING PER MANUFACTURER'S RECOMMENDATIONS.
3. 4' LONG EXHAUST GRILLE IN CEILING. GRILLE SHALL BE EQUAL TO: TITUS 350 RL, 50F, OR CT SERIES. NO STAMPED GRILLES OR GRILLES WIDER THAN 10". PROVIDE PLENUM ABOVE GRILLES. 300 CFM AIRFLOW. CONNECT TOP OF 10x8 DUCT TO 10x8 PLENUM.

Kroger

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F-6844

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05/08/09	29007	3/32"=1'-0"

SHEET NO.

M1.1

HVAC OVERALL FLOOR PLAN

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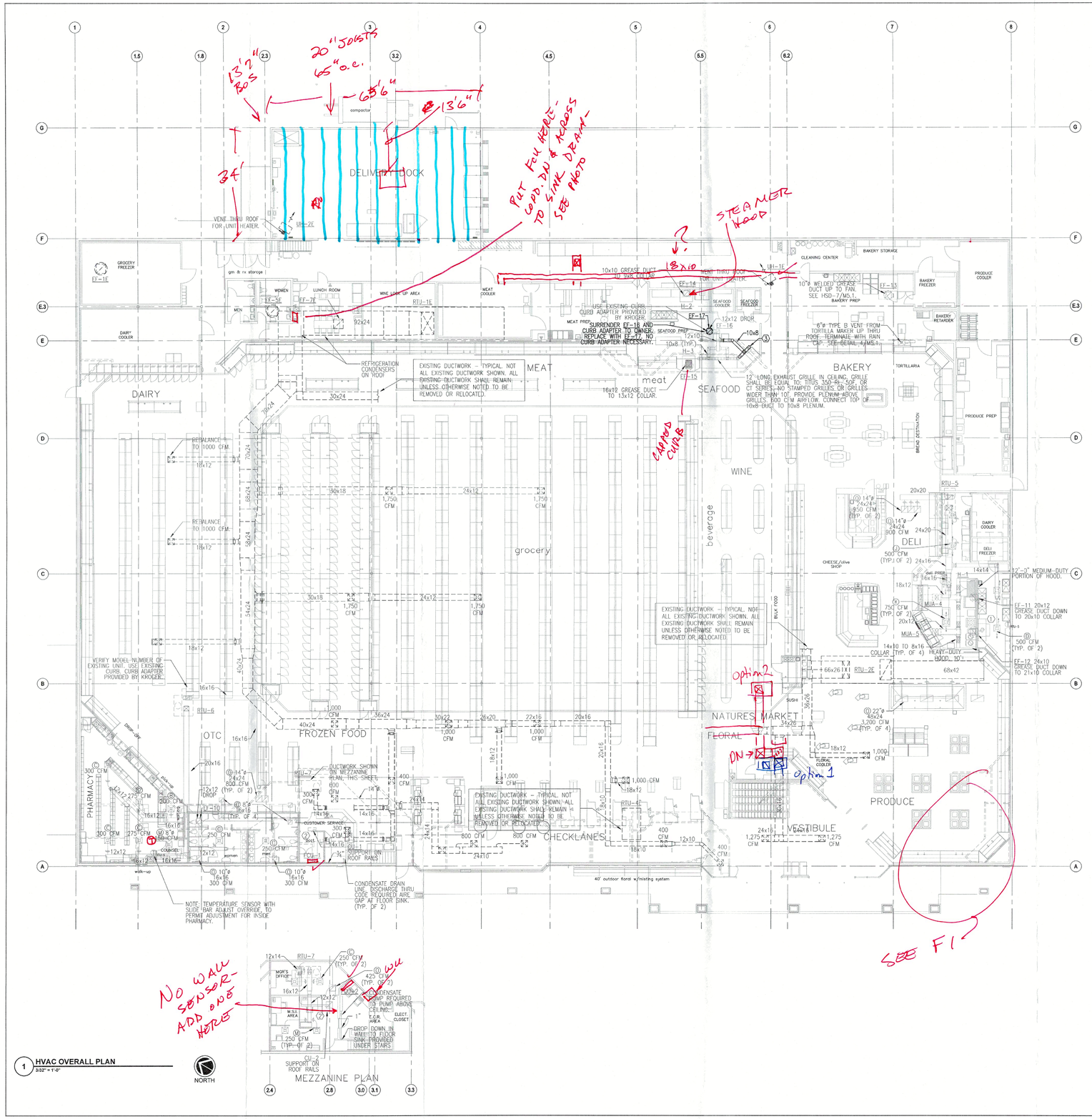

1 **HVAC OVERALL PLAN**
3/32" = 1'-0"

NORTH

MEZZANINE PLAN

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BOD	BOTTOM OF DUCT
CU	CONDENSING UNIT
COMP.	COMPRESSOR
CONN.	CONNECTION
CFM	CUBIC FEET PER MINUTE
DIA.	DIAMETER
DB	DRY BULB
DN.	DOWN
E	EXISTING
EF	EXHAUST FAN
EFF.	EFFICIENCY
ENT.	ENTERING
EBH	ELECTRIC BASEBOARD HEATER
E.A.T.	ENTERING AIR TEMPERATURE
EUH	ELECTRIC UNIT HEATER
E.W.T.	ENTERING WATER TEMPERATURE
FSD	FIRE SMOKE DAMPER
FT.	FEET
GPM	GALLONS PER MINUTE
H.P.	HORSEPOWER
IN.	INCH
LVG.	LEAVING
L.A.T.	LEAVING AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX.	MAXIMUM
MIN.	MINIMUM
MOT	MOTORIZED
MSS	MINI SPLIT SYSTEM
NC	NOISE CRITERION
NOM.	NOMINAL
NO.	NUMBER
OSA	OUTSIDE AIR
OPER.	OPERATING
Δ P	PRESSURE DIFFERENTIAL
P.D.	PRESSURE DROP
P.R.V.	PRESSURE REDUCING VALVE
RA(R)	RETURN AIR REGISTER
REQ'D	REQUIRED
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S.P.	STATIC PRESSURE
SAD	SUPPLY AIR DIFFUSER
SA(R)	SUPPLY AIR (REGISTER)
TEMP.	TEMPERATURE
T'STAT	THERMOSTAT
TOD	TOP OF DUCT
(TYP)	TYPICAL
VEL.	VELOCITY
VOL.	VOLUME
WB	WET BULB
VAV	VARIABLE AIR VOLUME

GENERAL NOTES

1. PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGE DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
2. SEE AIR DISTRIBUTION SCHEDULE FOR DUCT RUNOUT SIZES TO SUPPLY DEVICES.

SHEET KEYNOTES

1. INSTALL UW-50 VENT KIT PROVIDED BY HOBART. VENT KIT AUTOMATICALLY REMOVES STEAM/CONDENSATE AT THE COMPLETION OF THE WASH CYCLE. CONTRACTOR TO CONNECT A 10" DUCT TO THE VENT KIT OPENING AND RUN THROUGH ROOF TERMINATING DUCT WITH AN ELBOW. SEE HSD-8/MS.1.
2. PROVIDE AND INSTALL HVAC REFRIGERATION PIPING PER MANUFACTURER'S RECOMMENDATIONS.
3. 4" LONG EXHAUST GRILLE IN CEILING. GRILLE SHALL BE EQUAL TO: TITUS 350 RL, 50F, OR CT SERIES. NO STAMPED GRILLES OR GRILLES WIDER THAN 10". PROVIDE PLENUM ABOVE GRILLES. 300 CFM AIRFLOW. CONNECT TOP OF 10x8 DUCT TO 10x8 PLENUM.

KROGER
SW-522
WITHIN THE WALLS REMODEL
7100 INDEPENDENCE PKWY
PLANO, TX 75025
A DEVELOPMENT OF:
KROGER

Pickering
Pickering Firm, Inc.
Architecture - Engineering
Planning - Surveying
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ISSUE LOG

NO.	DESCRIPTION	DATE
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LICENSED PROFESSIONAL ENGINEER
Michael Ray Bilderback
10-30-09

MIKE BILDERBECK, PE
REGISTRATION NO. 99037
Pickering Firm, Inc.
F-6844

DATE:	JOB:	SCALE:
05/08/09	29007	3/32"=1'-0"

SHEET NO.

M1.1

HVAC OVERALL FLOOR PLAN

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MECH