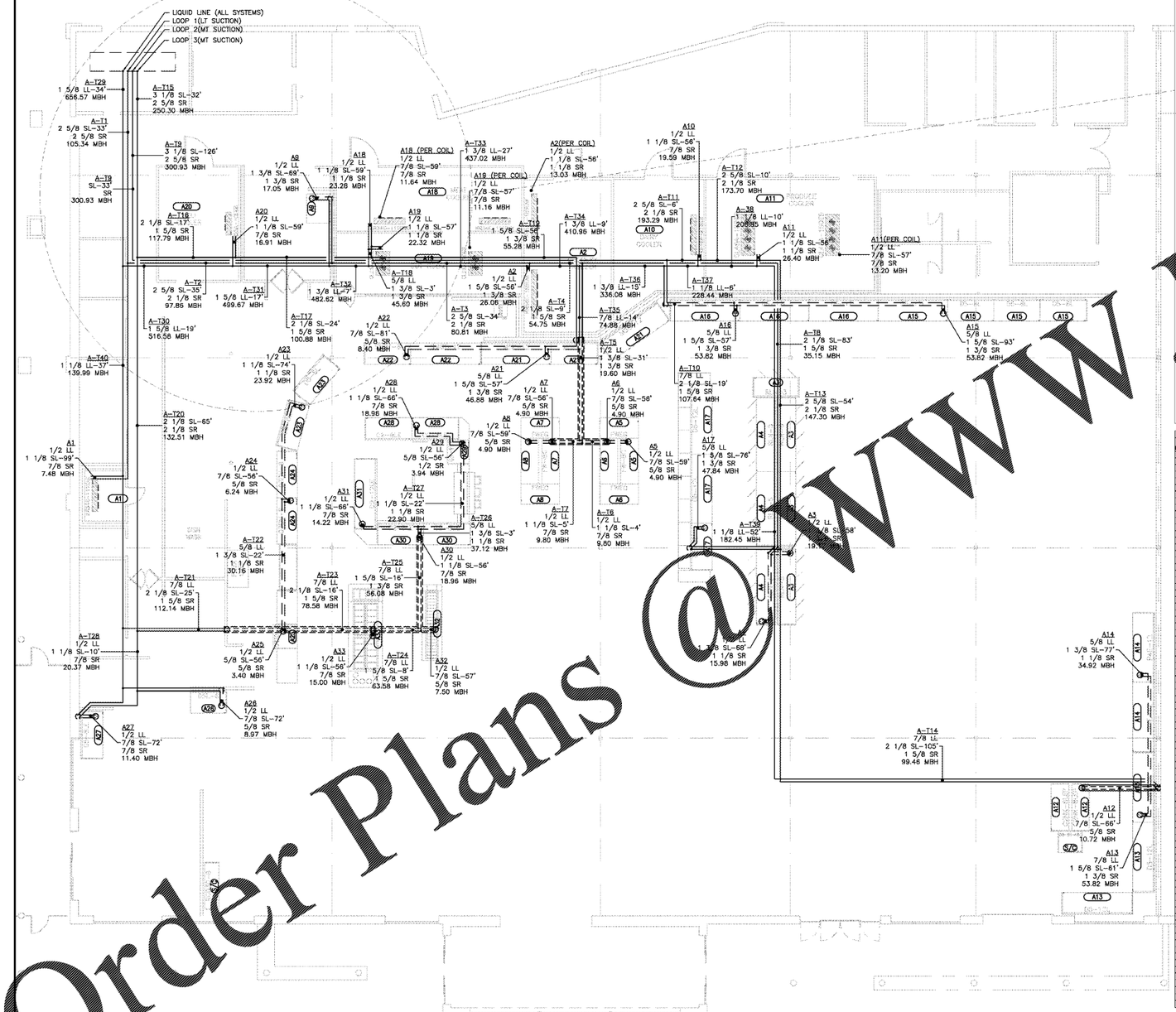
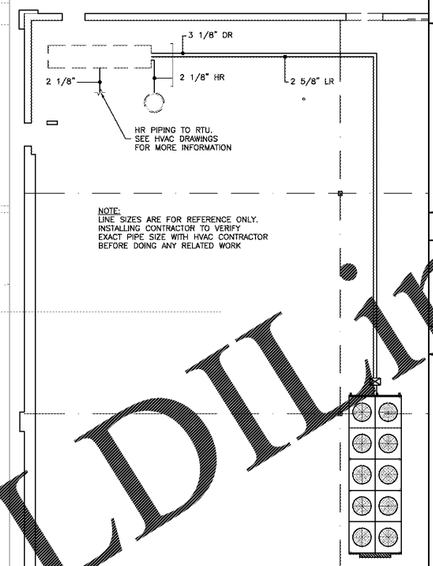
HEAT RECLAIM	
EQUIV. LENGTH	SIZE
50'	2 1/8"
100'	2 1/8"





PARTIAL ROOF PLAN

1/8" = 1'-0"

Lucky's Naples FL RACK LINE SIZE CHART - FIELD VERIFY ALL LINE LENGTHS

LS DESIG	SYSTEM / BRANCHES	SIZE	DESCRIPTION	MBH	LIQ*	SUC	RSR
A-T1	A1-A8 (SUCTION)		RACK A (LOOP #1)	136.34	N/A	2 5/8	2 5/8
A-T2	A2-A9 (SUCTION)		TRUNK #A-T2	97.86	N/A	2 5/8	2 1/8
A-T3	A3-A9 (SUCTION)		TRUNK #A-T3	80.81	N/A	2 5/8	2 1/8
A-T4	A3-A8 (SUCTION)		TRUNK #A-T4	54.75	N/A	2 1/8	1 5/8
A-T5	A5-A6		TRUNK #A-T5	19.60	1/2	1 3/8	1 3/8
A-T6	A5-A5		TRUNK #A-T6	9.80	1/2	1 1/8	7/8
A-T7	A7-A8		TRUNK #A-T7	9.80	1/2	1 1/8	7/8
A-T8	A3-A4 (SUCTION)		TRUNK #A-T8	35.15	N/A	2 1/8	1 5/8
A1	A1	8x10x10H	BAKERY FREEZER	7.48	1/2	1 1/8	7/8
A2	A2	16x24x10H	GROCERY FREEZER	38.09	1/2	1 5/8	1 3/8
	A2(PER COIL)			13.03	1/2	1 1/8	1 1/8
A3	A3	18	RLN-INNOV	19.17	1/2	1 3/8	1 3/8
A4	A4	16	RLN-INNOV	15.88	1/2	1 3/8	1 1/8
A5	A5	8+END	FWG+FWEG	4.90	1/2	7/8	5/8
A6	A6	8+END	FWG+FWEG	4.90	1/2	7/8	5/8
A7	A7	8+END	FWG+FWEG	4.90	1/2	7/8	5/8
A8	A8	8+END	FWG+FWEG	4.90	1/2	7/8	5/8
A9	A9	29-1/2x34	HOWE ICE FLAKER	17.05	1/2	1 3/8	1 3/8
A-T9	A10-A17 (SUCTION)		RACK A (LOOP #2)	300.93	N/A	3 1/8	2 5/8
A-T10	A16		TRUNK #A-T10	107.64	7/8	2 1/8	1 5/8
A-T11	A10-A14 & A17 (SUCTION)		TRUNK #A-T11	193.29	N/A	2 5/8	2 1/8
A-T12	A11-A14 & A17 (SUCTION)		TRUNK #A-T12	173.70	N/A	2 5/8	2 1/8
A-T13	A13-A14 & A17 (SUCTION)		TRUNK #A-T13	147.30	N/A	2 5/8	2 1/8
A-T14	A13-A14		TRUNK #A-T14	99.46	7/8	2 1/8	1 5/8
A10	A10	16x20x10H	DAIRY COOLER	19.59	1/2	1 1/8	7/8
A11	A11	30x20x10H	PRODUCE COOLER	26.40	1/2	1 1/8	1 1/8
	A11(PER COIL)			13.20	1/2	7/8	7/8
A12	A12	16	C2N3LEP	10.72	1/2	7/8	5/8
A13	A13	36	DSL	53.82	7/8	1 5/8	1 3/8
A14	A14	24	P-BF	34.92	5/8	1 3/8	1 1/8
A15	A15	36	DSL	53.82	5/8	1 5/8	1 3/8
A16	A16	36	DSL	53.82	5/8	1 5/8	1 3/8
A17	A17	32	DSL	47.84	5/8	1 5/8	1 3/8
A-T15	A15-A32 (SUCTION)		RACK A (LOOP #3)	250.30	N/A	3 1/8	2 5/8
A-T16	A18-A22 (SUCTION)		TRUNK #A-T16	117.79	N/A	2 1/8	1 5/8
A-T17	A18-A9 & A21-A22 (SUCTION)		TRUNK #A-T17	100.88	N/A	2 1/8	1 5/8
A-T18	A18-A19		TRUNK #A-T18	45.60	5/8	1 3/8	1 3/8
A-T19	A21-A22 (SUCTION)		TRUNK #A-T19	65.39	N/A	1 5/8	1 3/8
A-T20	A23-A33 (SUCTION)		TRUNK #A-T20	132.51	N/A	2 1/8	2 1/8
A-T21	A23-A25 & A28-A33		TRUNK #A-T21	112.14	7/8	2 1/8	1 5/8
A-T22	A23-A24		TRUNK #A-T22	30.16	5/8	1 3/8	1 1/8
A-T23	A28-A33		TRUNK #A-T23	78.58	7/8	2 1/8	1 5/8
A-T24	A28-A32		TRUNK #A-T24	63.58	7/8	1 5/8	1 3/8
A-T25	A28-A31		TRUNK #A-T25	56.08	7/8	1 5/8	1 3/8
A-T26	A28-A29 & A31		TRUNK #A-T26	37.12	5/8	1 3/8	1 1/8
A-T27	A28-A29		TRUNK #A-T27	22.90	1/2	1 1/8	1 1/8
A-T28	A26-A27		TRUNK #A-T28	20.37	1/2	1 1/8	7/8
A18	A18	33x9x10H	MEAT COOLER	22.28	1/2	1 1/8	1 1/8
	A18 (PER COIL)			11.64	1/2	7/8	7/8
A19	A19	372 SQ. FT	CUT ROOM	22.32	1/2	1 1/8	1 1/8
	A19 (PER COIL)			11.16	1/2	7/8	7/8
A20	A20	14x20x10H	DELI COOLER	16.91	1/2	1 1/8	7/8
A21	A21	32	MBE	46.88	5/8	1 3/8	1 3/8
A22	A22	20	BMGT	8.40	1/2	7/8	5/8
A23	A23	16	DSL	23.92	1/2	1 1/8	1 1/8
A24	A24	16	QS-2V	6.24	1/2	7/8	5/8
A25	A25	4	QS-3	3.40	1/2	5/8	5/8
A26	A26	6	DSL	9.97	1/2	7/8	5/8
A27	A27	8	DSLE	11.40	1/2	7/8	7/8
A28	A28	18	CSLE	18.98	1/2	1 1/8	7/8
A29	A29	4	QS-3P	3.94	1/2	5/8	1/2
A30	A30	16	CSLE	18.96	1/2	1 1/8	7/8
A31	A31	12	CSLE	14.22	1/2	1 1/8	7/8
A32	A32	12	SLA OLIVE	7.50	1/2	7/8	5/8
A33	A33	8	SS-04	15.00	1/2	1 1/8	7/8
A-T29	A1-A33 (LIQUID)		RACK A (LIQUID LINE ALL SYS)	656.57	1 5/8	N/A	N/A
A-T30	A2-A32 (LIQUID)		TRUNK #A-T30	516.58	1 5/8	N/A	N/A
A-T31	A2-A19 & A21-A22		TRUNK #A-T31	499.67	1 5/8	N/A	N/A
A-T32	A3-A8, A10-A19 & A21-A22		TRUNK #A-T32	482.62	1 3/8	N/A	N/A
A-T33	A2-A8, A10-A17 & A21-A22		TRUNK #A-T33	437.00	1 3/8	N/A	N/A
A-T34	A3-A8, A10-A17 & A21-A22		TRUNK #A-T34	410.96	1 3/8	N/A	N/A
A-T35	A5-A6 & A21-A22		TRUNK #A-T35	74.88	7/8	N/A	N/A
A-T36	A3-A4 & A10-A17		TRUNK #A-T36	336.06	1 3/8	N/A	N/A
A-T37	A3-A4, A10-A14 & A17		TRUNK #A-T37	228.44	1 1/8	N/A	N/A
A-T38	A3-A4, A11-A14 & A17		TRUNK #A-T38	208.85	1 1/8	N/A	N/A
A-T39	A3-A4, A15-A16 & A17		TRUNK #A-T39	182.45	1 1/8	N/A	N/A
A-T40	A1 & A23-A33		TRUNK #A-T40	139.99	1 1/8	N/A	N/A
	DISCHARGE LINE SIZE = 3 1/8		LIQUID RETURN = 2 5/8				
	LOOP #1 - #3		RACK A LOOP PIPING SYS 1-9, 10-17, 18-33				
	*ALL LIQUID LINES ARE SIZED NON-SUB-COOLED.						

GENERAL NOTES

IT IS THE RESPONSIBILITY OF THE ARCHITECT OR DESIGNATED CONTRACTOR TO PROVIDE ALL DIMENSIONS FOR THIS PROJECT PER CUSTOMER SPECIFICATIONS AND GUIDELINES.

LOOP PIPING NOTES

1. IF APPLICABLE, LINES SHOULD BE CLAMPED TO A WALL OR SUITABLE SURFACE.
2. LIQUID INJECTION LINE SHOULD BE A MINIMUM OF 1/2", WITH A BALL VALVE FIRST, THEN A SIGHT GLASS AND A SCHRADER FITTING TO CHECK LIQUID PRESSURE AND ALSO AID IN THE PUMP DOWN OF THE UNIT. FLUSH GAS CAN ALSO BE DETECTED AT THE SITE GLASS WITHOUT GOING TO THE ROOF. THE BALL VALVE WILL AID IN THE SERVICE OF THE INJECTION BLOCK IF EVER NEEDED WITHOUT PUMPING DOWN THE WHOLE SYSTEM.
3. IF A SUB-COOLER IS USED MAIN LIQUID LINE FROM CONDENSER MUST BE RUN DOWN TO THE SUB-COOLER AND THEN BACK UP TO THE MAIN TRUNK LINE IN THE OVERHEAD.
4. ALL LIQUID LINES SHALL BE PIPED FROM THE BOTTOM OF THE MAIN TRUNK LINE TO MAINTAIN A PROPER FEED AND REDUCE THE AMOUNT OF FLASH GAS IN THE CASE OF LOW LIQUID.
5. ALL SUCTION LINES SHALL ENTER THE TOP OF THE MAIN TRUNK LINES TO REDUCE THE POSSIBILITY OF OIL MIGRATING DOWN THE LINES DURING DEFROST.

CONDENSER PIPING NOTES

1. DISCHARGE LINE SHALL HAVE A BALL VALVE INSTALLED ON THE ROOF, AT THE CONDENSER, FOR ISOLATION OF CHARGE PURPOSES. WHEN THE RECEIVER IS INSTALLED IN A LOCATION OTHER THAN ON THE ROOF, A SECOND BALL VALVE SHALL BE INSTALLED ON THE RETURN LINE FOR ISOLATION OR SERVICE PURPOSES.
2. THE MAIN LIQUID LINE FILTER SHALL HAVE A BYPASS AROUND THE SUCTION FILTER TO ALLOW SERVICING OF THE FILTER WITHOUT PUMPING DOWN THE WHOLE SYSTEM.

GENERAL SHEET NOTES

1. ALL REFRIGERATION LINES TO GO OVERHEAD UNLESS OTHERWISE NOTED.
2. ALL TRENCHING, SAND BACKFILL, COMPACTION CONCRETE, CONCRETE CORING, & CUTTING REQUIRED FOR REFRIGERATION LINES BY GEN. CONTR.
3. GENERAL CONTRACTOR TO VERIFY LOCATION OF TRENCHING, CORING OR CUTTING WITH THE REFRIGERATION CONTRACTOR BEFORE WORK IS STARTED.
4. GENERAL CONTRACTOR TO FURR AROUND REFRIGERATION LINES FROM FLOOR TO CEILING WHERE EXPOSED.
5. REFRIGERATION CONTRACTOR TO VERIFY ALL FINAL LOCATIONS OF OVERHEAD LINES AND FALSE COLUMNS WITH DESIGNATED CONTRACTOR.
6. REFRIGERATION PIPE CHASE OPENING(S) WITH CURB PER STATE AND LOCAL CODES FOR REFRIGERATION LINES PENETRATIONS AS NEEDED WHEN EXITING AND ENTERING PROTOCOL AREA ARE BY THE GEN. CONTR. LOCATIONS TO BE VARIFIED WITH REFRIG. CONTR.
7. INSULATE ALL LOW TEMPERATURE SUCTION LINES WITH MINIMUM 1" INSULATION. INSULATE ALL MEDIUM TEMPERATURE SUCTION LINE WITH MINIMUM ½" INSULATION. INSULATE ALL LINES FROM TO COIL(S) INCLUDING HEAT EXCHANGER.
8. INSULATE ALL LIQUID LINES WITH MINIMUM ½" INSULATION.
9. SLOPE ALL SUCTION LINES TOWARD DESIGNATED RACK UNIT (SEE REFRIGERATION SCHEDULE) AT A MINIMUM OF 1" PER 20'.
10. REFRIGERATION LINES IN TRENCH TO RUN THROUGH A 6"Ø PVC PIPE PER CUSTOMER SPECIFICATIONS. PVC PROVIDED AND INSTALLED BY REFRIGERATION CONTRACTOR.
11. TRENCH DEPTHS GUIDELINES: DEPTH OF TRENCH AT STUB-UPS TO BE A MINIMUM OF -12" AND A MINIMUM OF -18" AT RACEWAY.
12. ALL TUBING SHOULD BE CLEANED AND CAPPED.
13. REFRIGERATION CONTRACTOR TO COORDINATE REFRIGERATION LINE RUN WITH FIRE SPRINKLER CONTRACTOR AND PLUMBING CONTRACTOR AND ALL OTHER TRADES THAT MAY BE INVOLVED.
14. ALL PIPING (REFRIGERANT OR WATER OR OTHER) REQUIRED PER THE REFRIGERATION SCHEDULE TO BE PROVIDED AND CONNECTED TO COMPRESSORS BY THE INSTALLING CONTRACTOR UNLESS NOTED OTHERWISE. ALL INVOLVED CONTRACTORS TO COORDINATE.
15. ALL VALVES FOR D/T CASS INSTALLED AT CASES.

REFRIG PIPING PLAN NOTE

ALL REFRIGERATION PIPING LINES SHOWN ON THIS PLAN ARE SHOWN AS A POSSIBLE INSTALLATION SCHEMATIC ONLY. COORDINATE WITH REFRIGERATION CONTRACTOR FOR ACTUAL REFRIGERATION PIPING SCHEMATIC TO BE USED BEFORE DOING ANY RELATED WORK.

LENGTH OF LINE NOTE

ALL REFRIGERATION LINE LENGTHS SHOWN ARE HORIZONTAL LENGTHS ONLY.

SYMBOLS LEGEND

(1)	NEW REFRIGERATION SYSTEM NUMBERS
"OH"	OVERHEAD REFRIGERATION LINES
⊙	REFRIGERATION STUB-UP
⊖	REFRIGERATION LINES DROP
•	REFRIGERATION LINES JUNCTION OR TERMINATION POINT
( )	REFRIGERATION LINES PVC FALSE COLUMN PROVIDED BY REFRIGERATION CONTRACTOR
———	OVERHEAD REFRIGERATION LINES
——— ———	ABOVE GROUND REFRIGERATION LINES
— — — —	UNDERFLOOR REFRIGERATION LINES

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SALES PERSON
J. RIZZO

PROJECT MANAGER

REVISIONS

	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

DATE: 05.05.18
SCALE: 1/8" = 1'-0"
DRAWN BY: N. RENTERIA
CHK'D BY: ---
APRV'D BY: ---
PLAN: 82419ER1-9_ENS1-4.dwg

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