

ETHIOPIAN ORTHODOX TEWAHEDO CHURCH  
MEKANE SELAM MEDHANE ALEM CATHEDRAL  
OAKLAND CALIFORNIA

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)  
REPLACEMENT PROJECT

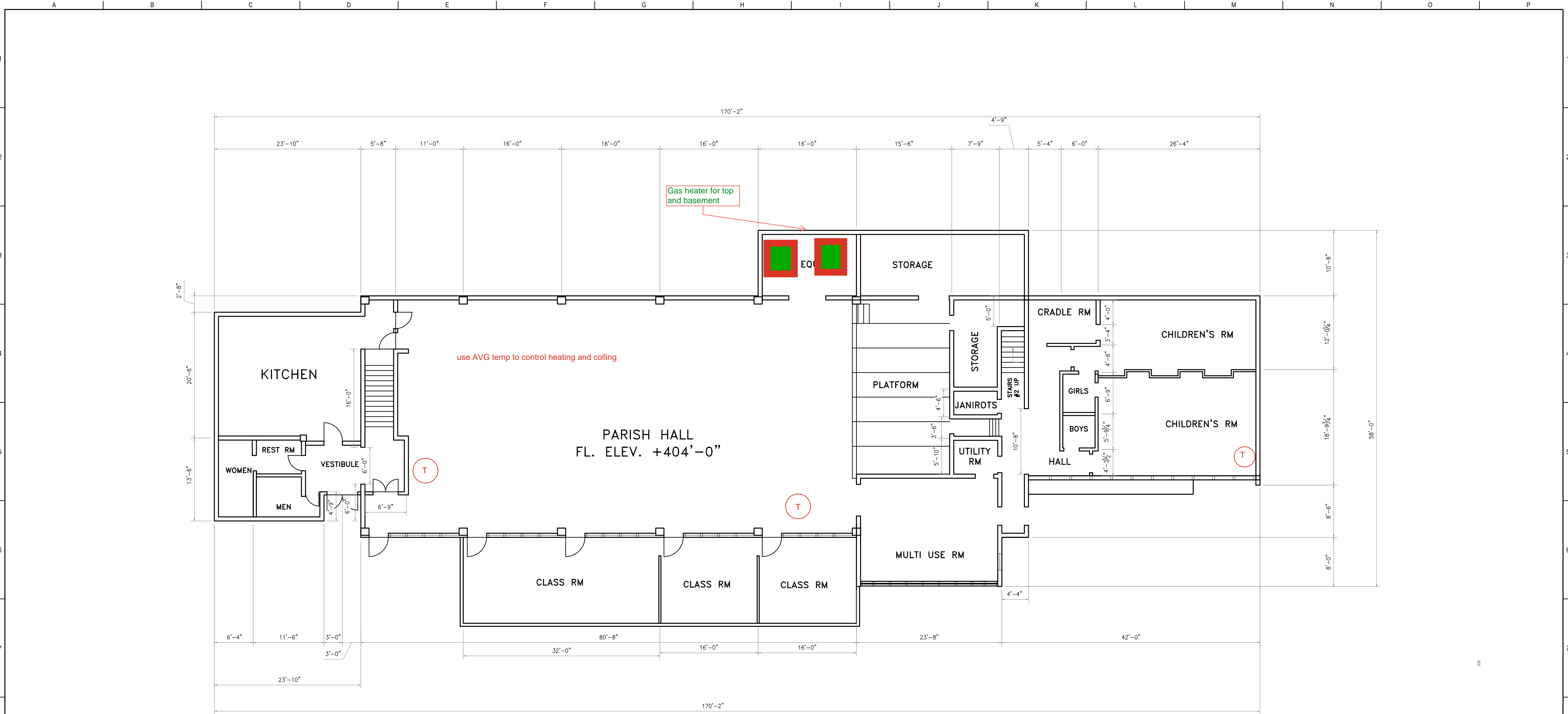
CONTRACT NO. XX-XXXX

MAY 2025

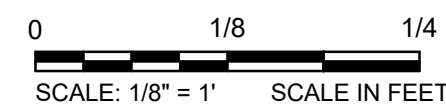
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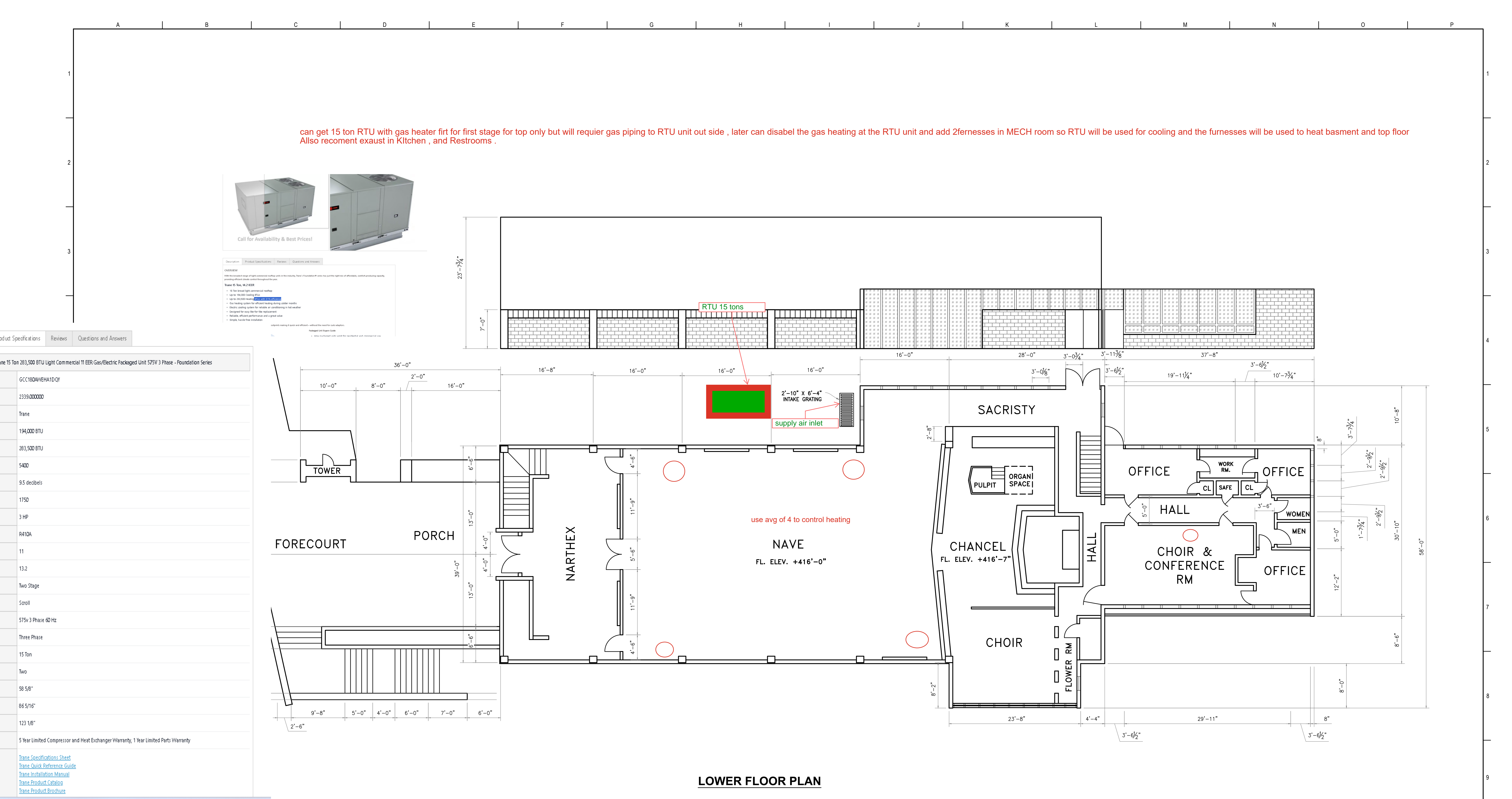
LOWER FLOOR PLAN



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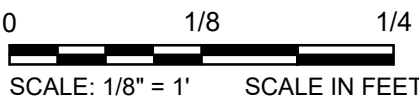
ELEVATION  
DATUM

XX% SUBMITTAL		XX-XXXX		
		ETHIOPIAN ORTHODOX TEWAHEDO MEKANE SELAM MEDHANE ALEM CATHEDRAL 4100 MOUNTAIN BLVD, OAKLAND, CA 94619		
		HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) IMPROVEMENT PROJECT		
PROJECT ENGINEER	DRAWN			
PROJECT MANAGER	DESIGNED			
APPROVED	CHECKED	OPERATION & MAINTENANCE MANAGER	SCALE	DATE
		PLAN NO.	DRAWING / FILE NO.	REVISION NO.
		REVISIONS		



LOWER FLOOR PLAN

Zone Names		Calculated Design Sensible Load	User Design Sensible Load	Calculated Design Air Flow (cfm)	User Design Air Flow (cfm)	Date of Peak	External Temperature at Peak (°F)	Humidity Ratio at Peak (gr/lb)	Calculated Cooling Load (tons)	Calculated Heating Load (Mbh)
Zone 00-00	Cooling	6.3 tons	6.8 tons	3,765	4,068	11/21 13:00	79.2	0	0	3.9
	Heating	8.5 Mbh	8.5 Mbh	301	1,680	12/21 24:00	38.6	0	0	19.9
Zone 01-00	Cooling	6.9 tons	6.9 tons	4,075	4,075	9/21 15:00	93.3	0	0	3.9
	Heating	19.9 Mbh	19.9 Mbh	699	1,761	12/21 24:00	38.6	0	0	19.9



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