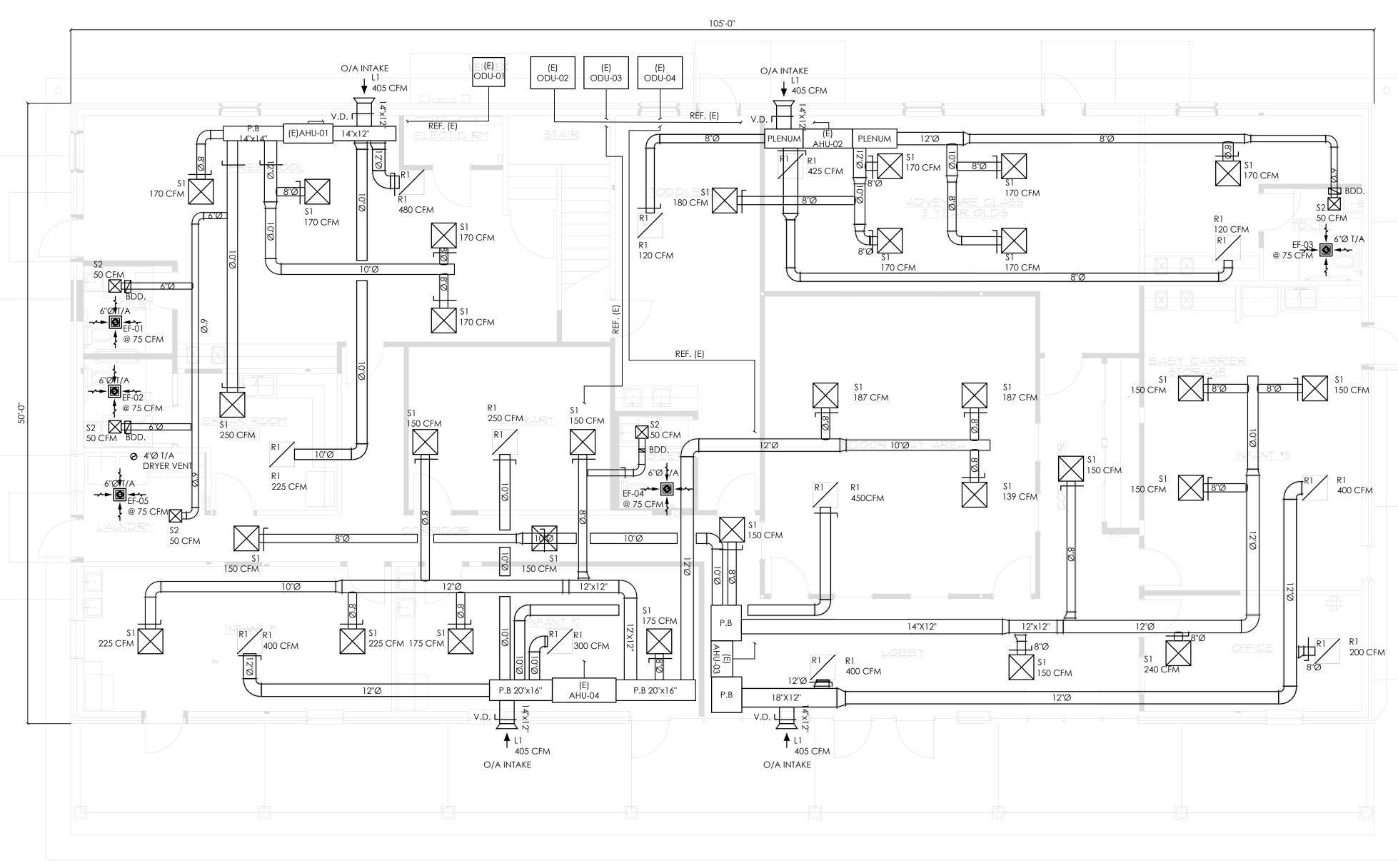
GDI ENGINEERING



DearOnes Daycare

Education

Cleburne, Texas



GENERAL NOTES:

- 1. MECHANICAL CONTRACTOR TO COORDINATE ROUTING AND LOCATION OF MECHANICAL COMPONENTS AND EQUIPMENT WITH ALL OTHER TRADES AND EXISTING FIELD CONDITIONS PRIOR TO PERFORMING WORK.
- 2. CONTRACTOR TO CUT AND PATCH AS REQUIRED TO PERFORM THE WORK.
- 3. ACCESS DOORS ARE REQUIRED FOR ANY COMPONENT REQUIRING ACCESS ABOVE HARD LID CEILINGS. COORDINATE SIZE, LOCATION AND FINISH WITH ARCHITECT PRIOR TO PERFORMING WORK.
- 4. REFER TO THE DIAGRAMS THAT APPLY TO THIS SHEET WHICH PROVIDE GENERAL GUIDANCE FOR INSTALLATION THOUGH NOT ALL COMPONENTS AND ACCESSORIES MAY BE SHOWN.
- 5. PRIOR TO INSTALLATION, CONFIRM SPECIFIC LOCATION FOR ALL THERMOSTATS / SENSORS WITH ARCHITECT. MOUNT AT 48" A.F.F. OR IN ACCORDANCE WITH ADA REQUIREMENTS. PROVIDE LOCKING COVERS.
- 6. COORDINATE AND CONFIRM BORDER, FRAME, FINISH, AND LOCATION WITH ARCHITECT PRIOR TO ORDERING.
- 7. ANY PENETRATIONS THROUGH WALL STUDS, FLOOR JOISTS, OR ROOF TO BE IN ACCORDANCE WITH THE LATEST ADOPTED BUILDING CODE.
- 8. DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
- 9. CONTRACTOR TO CONFIRM ADEQUATE RETURN AIR PATH BACK TO MAIN AIR HANDLING UNIT.

SPECIAL NOTES:

THIS IS A RENOVATION PROJECT:

1- HVAC UNITS ARE TO BE REUSED & RE-DUCTED AS REQUIRED.

REUSE WHAT YOU CAN

SCHEDULE No. 1

EXISTING HEAT PUMP INDOOR UNIT

TAG	(E) AHU-01	(E) AHU-02	(E) AHU-03	(E) AHU-04
MANUFACTURER	LENNOX	RHEEM	RHEEM	TRANE
INDOOR MODEL	CBA25UH-030-230-01	RBHB-21J15MHEA	RBHB-24J20MLEA	TWE048P13FB0
POWER SUPPLY	208-230/1/60	208-240/1/60	208-240/1/60	200-230/1/60
MCA (A)	15	7.0	8.0	4.2
COOLING / HEATING CAPACITY (BTU/H)	30,000	36,000	48,000	48,000
ELECTRIC HEATER (kW)	-	14.4	19.2	-
AIR FLOW RATE (CFM)	1080	1080	1440	1600

SCHEDULE No. 2 EXISTING HEAT PUMP OUTDOOR UNIT

J-01 ((E) ODU-02	(E) ODII 03	
	(L) ODO 02	(E) ODU-03	(E) ODU-04
OOR	OUTDOOR	OUTDOOR	OUTDOOR
X	RHEEM	RHEEM	TRANE
P-030-230A01	RPMB-036JAZ	RPMB-048JAZ	M4HP4048B1000AA
60	208-230/1/60	208-230/1/60	208-230/1/60
	24.0	25.0	24.6
	40.0	40.0	40
	36,000	48,000	48,000
	P-030-230A01	OOR OUTDOOR X RHEEM P-030-230A01 RPMB-036JAZ 60 208-230/1/60 24.0 40.0	OOR OUTDOOR OUTDOOR X RHEEM RHEEM P-030-230A01 RPMB-036JAZ RPMB-048JAZ 60 208-230/1/60 208-230/1/60 24.0 25.0 40.0 40.0

SCHEDULE No. 3 AIR OUTLETS

_					
1	ΓAG	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING
5	51	SUPPLY DIFFUSER	TITUS	24in. x 24in.	Duct Mounted
5	52	SUPPLY DIFFUSER	TITUS	12in. x 12in.	Duct Mounted
F	R1	RETURN DIFFUSER	TITUS	24in. x 24in.	Duct Mounted

NOTES:

- 1. COORDINATE FINISH, COLOR, BORDER AND EXACT LOCATION WITH OWNER PRIOR TO ORDERING.
- PROVIDE OPPOSED BLADE DAMPER ACCESSIBLE THROUGH DIFFUSER FACE FOR GYP BD. CEILING INSTALLATIONS.
 PROVIDE DUCT TRANSITIONS AS REQUIRED.
- 4. RETURNS R1 ARE PROVIDED WITH PROPER FILTERS.

TAG	EF-01,02,03,04,05
LOCATION	BATHROOMS & LAUNDR'
SELECTED FLOW (CFM)	75
ESP (IN. H2O)	0.25"
ELECTRICAL (V / PH / HZ)	120 / 1 / 60
POWER / Amps	25 W
MOTOR SPEED (RPS)	MULTI SPEED
FAN TYPE	CEILING FANS
MANUFACTURER	PANASONIC
MODEL	WHISPER FV-0511VKS2

ALL DUCTS ARE NEW AND TO BE RIGID DUCTS.

ALL REFRIGERANT PIPING ARE EXISTING TO REMAIN.

ALL AIR OUTLETS ARE NEW.

ALL EXTRACTION FANS ARE NEW.

NOTES:

1. PROVIDE UL LISTING.

SCHEDULE No. 4

NEW FAN SCHEDULES

- 2. PROVIDE ENERGY STAR COMPLIANCE.
- 3. INTERLOCK WITH WALL SWITCH.
- 4. PROVIDE MOTOR WITH THERMAL OVERLOADS.

SCHEDULE No. 5 OUTDOOR AIR LOUVER

TAG	QTY	MODEL	WIDTH x HEIGHT (in)	AIRFLOW	FLOW AREA	FREE AREA	FREE AREA VELOCITY	PD
L1	4	ELF211D	24x24	405 cfm	1.2 ft ²	30%	339 fpm	0.01 w.g

NOTES:

- 1. COORDINATE WITH THE ARCHITECT THE FINISH, COLOR, BORDER AND EXACT LOCATION PRIOR TO ORDERING.
- 2. FURNISH LOUVER WITH ACTUATED DAMPER AND BACK-DRAFT DAMPERS FOR BALANCING OUTDOOR AIR.

M 1 . 0 1

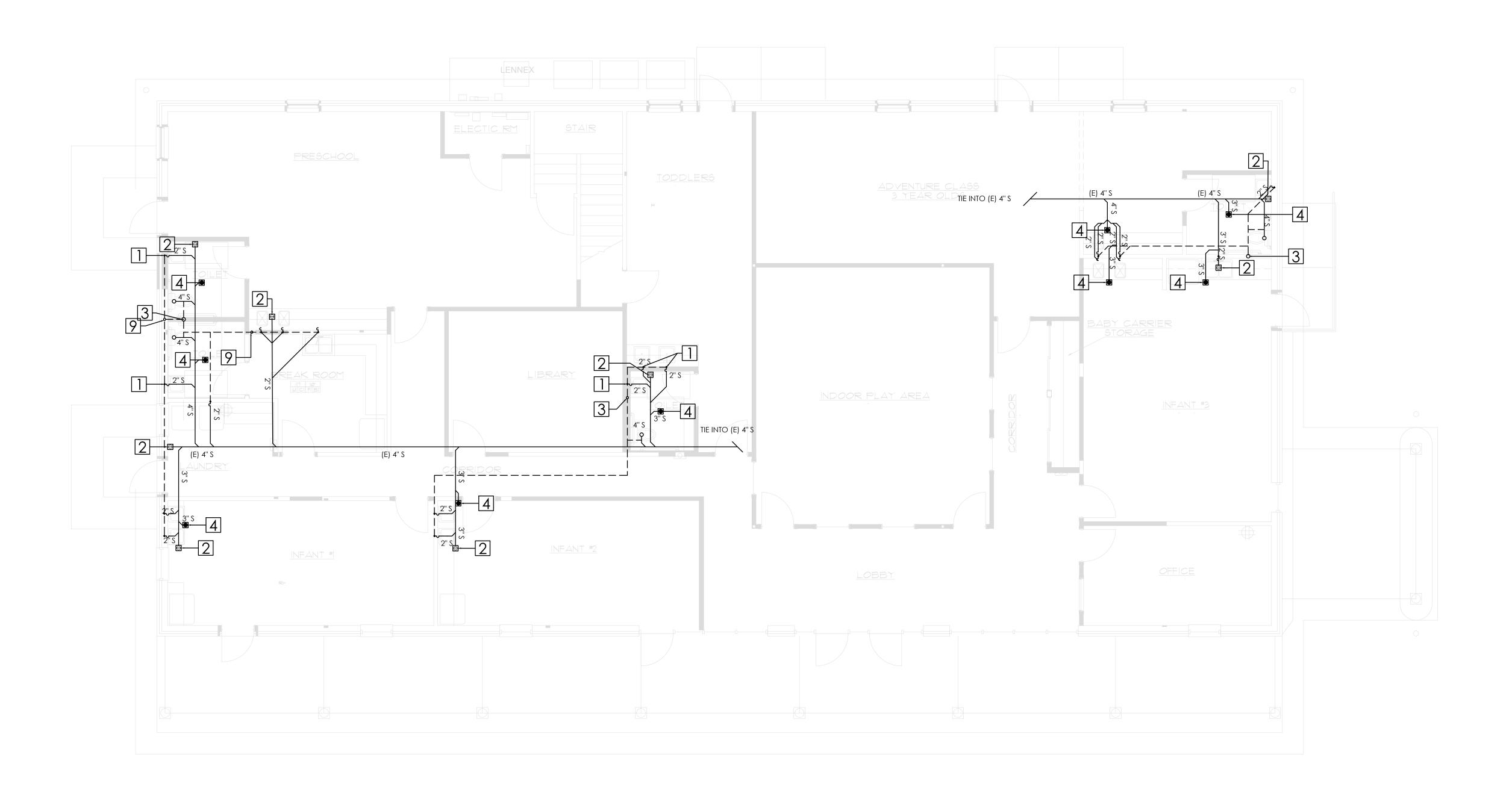


PROJECT: VARAND DAYCARE TABLE 403.3.1.1: MINIMUM VENTILATION RATES
 AREA (FT2)
 CFM/FT2.
 OCC./1000 FT2
 # PERS.
 CFM/PERS.
 TOTAL CFM

 642
 0.18
 25
 17
 10
 286

 128
 0.06
 5
 1
 5
 13
 S.N. Space Name 1 ADVENTURE CLASS 2 BREAK ROOM 3 INDOOR PLAY AREA 4 INFANT 1 290 0.18 2 10 **73**11 10 **188**2 5 **32** 5 INFANT 2 295 0.18 6 INFANT 3 431 0.18 7 LIBRARY 184 0.12 8 LAUNDRY 9 LOBBY 164 0.06 599 0.18 318 0.18 10 OFFICE 25 15 10 **258** 25 8 10 **137** 11 PRESCHOOL 12 TODDLERS 13 TOILET 1 14 TOILET 2 15 TOILET 3 51 0.00 16 TOILET 4 59 0.00 - 1,619 16 TOTAL = 4,646 -

M 2 . 0 1



GENERAL NOTES:

- 1. PRIOR TO PERFORMING WORK, CONTRACTOR TO COORDINATE EXACT PIPE SIZES, INVERT ELEVATIONS, PRESSURES FOR LOCATIONS OF ANY SEWER, WATER PIPING AND WATER METER WITH CIVIL UTILITIES DRAWINGS, AND ANY OTHER ENGINEER AS APPLICABLE.
- 2. PRIOR TO PERFORMING WORK, CONTRACTOR TO COORDINATE PIPE ROUTING WITH ALL OTHER TRADES AND EXISTING FIELD CONDITIONS.
- 3. REFER TO MECHANICAL PLANS FOR PLUMBING SPECIFICATION OF MATERIAL, INSULATION AND INSTALLATION REQUIREMENTS.
- 4. CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN COORDINATION AND LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND FIXTURES.
- 5. CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED CUTTING AND PATCHING.
- 6. ALL NOTCHING, BORING, AND CUTTING OF HOLES IN WALL STUDS AND FLOOR JOISTS SHALL BE PERFORMED BASED ON THE LATEST ADOPTED AND APPROVED EDITION OF THE BUILDING CODE.
- 7. ALL PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- 8. ALL WATER PIPING SHALL BE INSTALLED ON INTERIOR SIDE OF THE BUILDING WALL INSULATION.
- 9. CONTRACTOR SHALL PROVIDE VALVES LOCATED ABOVE LAY-IN CEILING OR 24"x24" CEILING ACCESS PANEL COORDINATE FINAL LOCATION AND SIZE WITH ARCHITECT. PROVIDE BALANCING VALVES FOR HOT WATER RETURN SYSTEM AS REQUIRED.
- 10. ALL SANITARY DRAINAGE PIPING 3" AND SMALLER SHALL BE SLOPED AT $\frac{1}{4}$ " PER FOOT. PIPING 4" AND LARGER SHALL BE SLOPED AT $\frac{1}{8}$ " PER FOOT.
- 11. ALL CONDENSATE DRAIN PIPING SHALL BE SLOPED AT $\frac{1}{8}$ " PER FOOT AND PROVIDE ACCESSIBLE CLEANOUTS AT ALL CHANGES OF DIRECTION.
- 12. VENTS THAT TERMINATE AT THE ROOF SHALL BE A MINIMUM OF 10' FROM ANY FRESH AIR INTAKE.
- 13. REFER TO THE PLUMBING DIAGRAMS FOR GUIDANCE OF INSTALLATION INTENT. CONTRACTOR IS TO PROVIDE ALL COMPONENTS NECESSARY TO MEET THE DESIGN INTENT, WHETHER SHOWN IN DIAGRAM OR NOT.

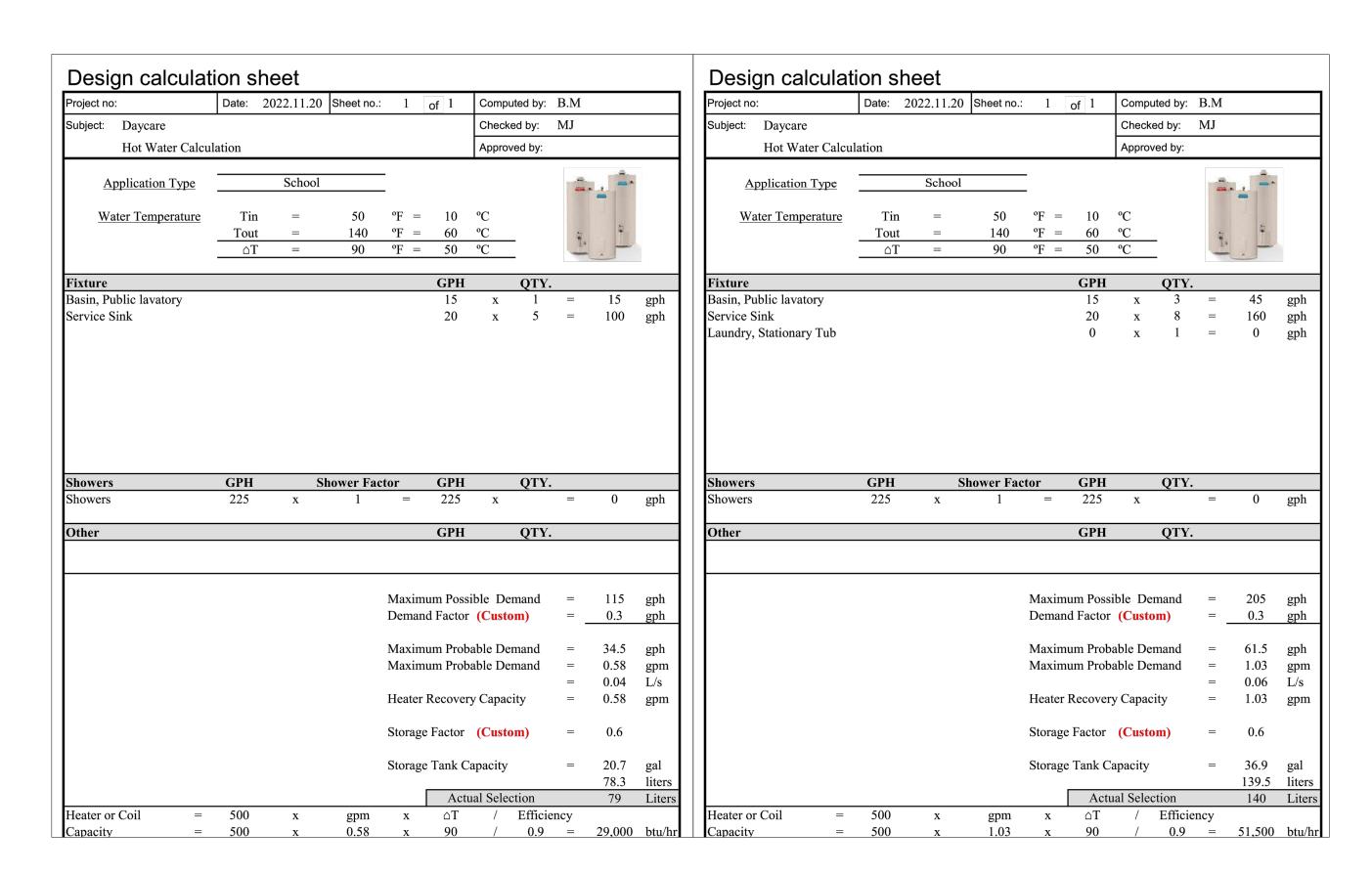
SANITARY SHEET NOTES:

- WASTE DROP AND 2" VENT RISE.
- 2 4" FLOOR CLEAN-OUT.
- 3" VENT STACK TO ABOVE.
- 4 3" FLOOR DRAIN.
- 5 4" SOIL DROP FROM ABOVE.
- 6 WASTE DROP
- 7 SOIL DROP AND 4"VENT RISE.
- 8 INDIRECT WASTE
- 9 VENT UP IN-WALL

FROM 2018 TEXAS IPC - TABLE 709.1: DRAINAGE FIXTURE UNIT VALUES (DFU)

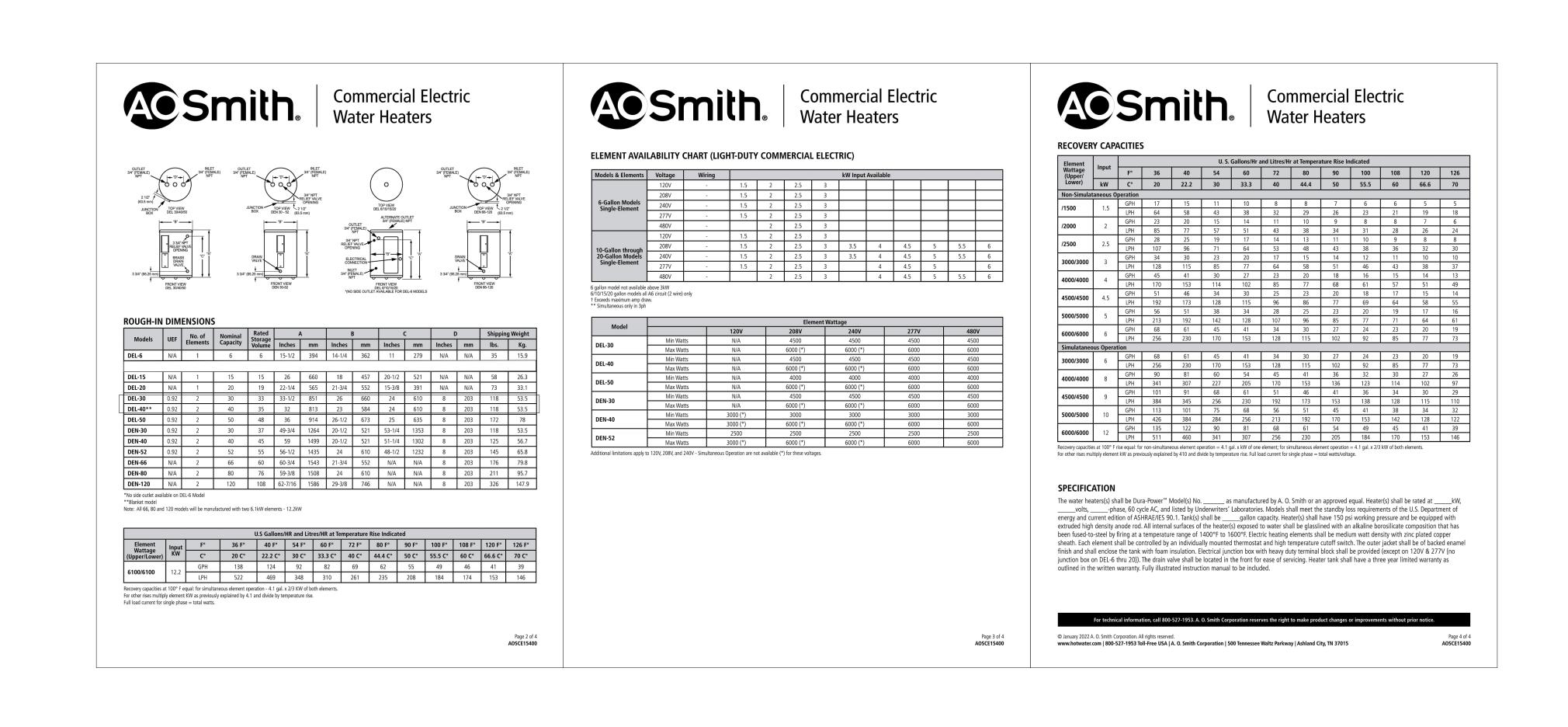
FIXTURE	D.F.U	QTY.	TOTAL D.F.U
SERVICE OR MOP SINK	2.0	13	26.0
KITCHEN SINK	2.0	1	2.0
WATER CLOSET	4.0	4	16.0
LAVATORY	1.0	4	4.0
WASHING MACHINE	3.0	1	3.0
TOTAL BUILDI	51.0		

P 2.01



SCHEDULE No. 1 ELECTRICAL WATER HEATER SCHEDULE

(E)EWH-01	(N)EWH-02
ATTIC	ATTIC
AOSMITH	AOSMITH
DEL30	DEL40
ELECTRIC	ELECTRIC
3.4	3.4
85	85
17.3" x 14.8"	17.3" x 14.8"
28.7"	28.7"
3/4"	3/4"
3/4"	3/4"
INTEGRATED	INTEGRATED
	ATTIC AOSMITH DEL30 ELECTRIC 3.4 85 17.3" x 14.8" 28.7" 3/4" 3/4"



P3.01

