BUILDING SPECIFICATIONS:

1) PERIMETER WALLS: ONE HOUR FIRE RATED

THE WALLS SHALL BE 3" THICK COMPOSITE SANDWICH PANELS. THE OUTSIDE SHALL BE 5/8" FIRE-SHIELD GYPSUM BOARD, WITH A VINYL FINISH OF LIGHT CREAM, WHITE, OR GRAY. THE INSIDE SHALL BE 5/8" FIRE-SHIELD GYPSUM BOARD, WITH A VINYL FINISH OF LIGHT CREAM, WHITE, OR GRAY. THE CORE SHALL BE METAL STUDS AND MINERAL WOOL. THE PANELS SHALL BE CERTIFIED IAW ASTM E119-98 FOR ONE HOUR FIRE RATED ASSEMBLY.

2) PERIMETER WALL CORE:

THE PERIMTER WALLS SHALL HAVE A CORE CONSTRUCTED OF 26 GA. STEEL STUDS WITH MINERAL WOOL INSULATION.

3) INTERIOR WALLS:

THE WALLS SHALL BE 3" THICK COMPOSITE SANDWICH PANELS. THE OUTSIDE AND INSIDE FACING SHALL BE 1/2" FIRE-SHIELD GYPSUM BOARD WITH A VINYL FINISH OF LIGHT CREAM. WHITE OR GREY. THE CORE SHALL BE 2" OF ONE POUND DENSITY POLYSTYRENE LAMINATED USING A STRUCTURAL ADHESIVE. EVERY 4' WILL HAVE A ALUMINUM EXTRUDED BINDER POST WITH SNAP COVER TO HOUSE ALL THE ELECTRICAL COMPONENTS. ALL BINDER POSTS WILL BE POWDER COAT PAINTED TO MATCH THE WALL COVERING.

4) INTERIOR WALL EXPANDED POLYSTRYRENE FOAM CORE: THE FOAM CORE SHALL HAVE THE FOLLOWING MECHANICAL PROPERTIES;

DENSITY (PER CUBIC FOOT) 0.9 MINIMUM STRENTH PROPERTIES COMPRESSIVE 10% DEFORMATION 10 TO 14 PSI 25 TO 30 PSI FI FXURAL **TENSILE** 16 TO 20 PSI 18 TO 22 PSI SHEAR MODULUS 280 TO 320 PSI MODULAR OF ELASTICITY 180 TO 220 PSI

THERMAL CONDUCTIVITY K FACTOR THERMAL RESISTANT (R) VALUES

0.23 (25°F), 0.24 (40°F), 0.26 (75°F) 4.35 (25°F), 4.17 (40°F), 3.85 (75°F) PER IN. TH.

COEFFICIENT OF THEMAL EXPANSION

0.000035 IN./IN.

LONG TERM 167°F, INTERMITTENT 180°F MAXINUM SERVICE TEMP.

MOISTURE RESISTANCE

2.0 TO 5.0 PERM. IN. ABSORTION (VOL.) LESS THAN 4.0%

CAPILLARITY

5) WALLS SHALL SUPPORT A 5 P.S.F. LATERAL LOAD WHICH IS THE STANDARD FOR PARTITION

6) 2ND LEVEL ROOF: ONE HOUR FIRE RATED ASSEMBLY

THE ROOF SHALL CONSISTS OF 22 GAUGE STEEL, 1.5" B-DECK. ALL ROOF DECKING SHALL BE DESIGNED THE STEEL DECK INSTITUTE. STEEL DECKING WILL BE SUPPORTED VIA COLD ROLLED C-CHANNELS SPACED APPR. 16" O.C. THE BOTTOM OF THE COLD ROLLED CHANNELS WILL BE COVERED IN 2 LAYERS OF 5/8" THICK GYPSUM. EACH LAYER WILL BE LAID PERPENDICULAR THE OTHER. ROOF SYSTEM SHALL BE CAPABLE OF SUPPORTING CEILING, LIGHTING, DUCTWORK, AND FIRE SPRINKLER

ROOF DEAD LOAD CALCULATIONS

STEEL DECK 3 P.S.F. CEILING 3 P.S.F. MECH/ELEC./FIRE PROT/MISC

TOTAL DEAD LOAD

7) SUSPENDED CEILING:

THE CEILING SYSTEM SHALL CONSIST OF A COMPLETE CLASS "A" SUSPENSION SYSTEM AND ACOUSTICAL TILE. THE CEILING SYSTEM SHALL CONSIST OF WHITE "T" GRID SYSTEM WITH A 2'X4' PATTERN.

8) DOORS:

THE DOOR(S) SHALL BE 36"W X 84"H X 1 3/4" THICK AND SHALL BE CONSTRUCTED OF 20 GAUGE HOT DIPPED GALVANIZED STEEL, MILL TREATED FOR PROPER PAINT ADHERENCE. THE DOOR SHALL HAVE TOP AND BOTTOM CHANNEL OF 16 GAUGE STEEL PROJECTION WELDED TO DOOR SKINS ON NO LESS THAN 2" CENTERS. THE TOP CHANNEL IS TO BE FLUSH WHILE THE BOTTOM CHANNEL IS TO BE INVERTED. THE HINGE PREPARATIONS ARE TO BE 9 GAUGE STEEL REINFORCEMENTS PROJECTION WELDED TO THE DOOR SKINS IN SIX PLACES EACH. HINGE PREPARATION IS TO BE CUT THROUGH THE DOORS AND PROVIDED WITH REVERSIBLE FILLER PLATES TO ALLOW BUILDING SITE HANDLING. STANDARD HINGE PREPARATION IS TO BE 4-1/2" REGULAR WEIGHT .134" HINGE, CONFORMING TO ANSI A1567, THREE PREPARATIONS. THE DOOR FRAME SHALL BE 16 GAUGE SINGLE "RABBIT" COMMERCIAL QUALITY STEEL. THE FRAME SHALL BE PRE-MORTISED FOR APPLICATION OF MATCHING HINGES AND STRIKER SET OF THE DOOR. THE DOOR SHALL BE SUPPLIED WITH ALL NECESSARY HARDWARE AS TO MEET LOCAL AND STATE CODE REQUIREMENTS. THE DOOR SHALL BE FABRICATED AS TO INCLUDE 1/8" TEMPERED SAFETY GLASS IN THE UPPER HALF. THE WINDOW SHALL MEASURE APPROXIMATELY 22"W X 36"H.

9) 45 MIN. RATED PICTURE WINDOW

PICTURE WINDOWS SHALL BE NOMINAL 3' WIDE X 3' HIGH AND BE 1/4" WIRE GLASS AND SHALL BE AN INTEGRAL PART OF THE WALL PANEL. THE WINDOW SHALL BE NON-OPENING, AND THE ENTIRE WINDOW FRAME SHALL BE PAINTED IN ACCORDANCE WITH AAMA SPECIFICATION 603.8. THE SURFACE AREA OF WINDOWS SHALL NOT EXCEED 25% OF TOTAL WALL SURFACE AREA.

VINYL COMPOSITION FLOOR TILE SHALL BE 1/8" X 12" X 12". WHITE MARBLED IS STANDARD, OTHER COLORS ARE AVAILABLE. FOUR INCH BLACK VINYL COVE MOLDING SHALL BE

ALTERNATE FLOOR OPTIONS ARE AVAILABLE ON REQUEST.

11) ELECTRICAL PACKAGE:

THE ELECTRICAL PACKAGE SHALL CONSIST OF 1/2" EMT CONCEALED IN THE PANEL AND ATTACHED TO FLUSH MOUNTED 2X4 BOXES AT RECEPTACLE AND SWITCH LOCATIONS; THIS PACKAGE SHALL MEET NEC (CURRENT EDITION).

12) ELECTRICAL SERVICE:

THE ELECTRICAL SERVICE SHALL BE COMPRISED OF (1) 220 AMP, 42—SPACE, MAIN BREAKER, SINGLE PHASE, NEMA 1, LOAD CENTER BY CUTLER HAMMER AND ALL NECESSARY BREAKERS. THERE SHALL BE NO MORE THAN 12 LIGHTS PER CIRCUIT AND NO MORE THAN 5 DUPLEX RECEPTACLES PER CIRCUIT. NOTE: THE ENTIRE ELECTRICAL SYSTEM FOR THE MODULAR BUILDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND SHALL MEET ALL N.E.C.

13) CLIMATE CONTROL:

HEATING AND AIR CONDITIONING SHALL BE PROVIDED VIA APPROPRIATELY SIZED DUCTWORK. THE NEW DUCTWORK SHALL BE DESIGNED TO SUPPLY APPROXIMATELY 5 TONS OF COOLING CAPACITY AND 15KW OF HEAT PER FLOOR. SUPPLY & INSTALLATION OF NEW HEATING/COOLING SUPPLY & RETURN DUCTWORK BY PANEL-BUILT. CONNECTION OF NEW HEATING/COOLING SUPPLY & RETURN DUCTWORK TO EXISTING SYSTEM BY OTHERS.

14) SPRINKLER SYSTEM:

THE SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA 13. CONNECTION OF SPRINKLER SYSTEM TO THE EXISTING FACILITY SYSTEM SHALL BE BY OTHERS.

GENERAL NOTE FOR MODULAR BUILDING SCOPE OF WORK THIS STRUCTURE SHALL BE CONSTRUCTED USING MODULAR COMPONENTS WHICH SHALL ALLOW FOR EASY ASSEMBLY AND DISASSEMBLY IN ORDER TO ACCOMODATE FUTURE RECONFIGURATION. ALL PANELS ARE INTERCHANGEABLE AND CAN BE ASSEMBLED TO FIT ANY CURRENT NEED. ALL WALL PANELS ARE COMPLETELY RE-LOCATABLE AND SHALL INCLUDE ALL CHANNEL AND FASTENERS NECESSARY FOR INSTALLATION.

ALL STRUCTURAL STEEL FRAMING CONNECTIONS SHALL BE FABRICATED USING BOLT-TOGETHER CONNECTIONS TO ELIMINATE ANY ON-STIE WELDING. ALL STEEL COMPONENTS SHALL APPROPRIATELY SIZED TO MEET DESIGN LOADS PER AISC AND SJI STANDARDS.

ALL MODULAR COMPONENTS SHALL BE QUALITY INSPECTED PRIOR TO SHIPMENT AND ARE MANUFACTURED TO EXACT STANDARDS. THE BUILDING SYSTEM SHALL BE WARRANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SHIPMENT. THIS INCLUDES ALL MATERIALS AND FREIGHT TO RECTIFY ANY PRODUCT DEFECTS. THE WALL AND ROOF SYSTEM SHALL BE WARRANTEED FOR A PERIOD OF FIVE (5) YEARS AGAINST DELAMINATION, STRUCTURAL DEFECTS OR SYSTEM BREAKDOWN UNDER NORMAL WEAR AND TEAR CONDITIONS. ANY ACCESSORIES SUCH AS HVAC, ELECTRICAL, ETC., SHALL BE WARRANTEED TO THE EXTENT OF THE SPECIFIC PRODUCT MANUFACTURER'S WARRANTY.

TRADES:

- 1) INSTALLATION OF STEEL STRUCTURE AND BUILDING: BY PANEL-BUILT
- 2) ALL ELECTRICAL INSTALLATION, CONNECTION, AND TESTING INCLUDING FINAL TIE-IN: BY PANFI -BUILT
- 3) SPRINKLERS SYSTEM INCLUDING SUPPLY, INSTALLATION, AND FINAL TIE-IN: BY PANEL-BUILT
- 4) SUPPLY & INSTALLATION OF NEW HEATING/COOLING SUPPLY & RETURN DUCTWORK: BY PANEL-BUILT
- 5) FIRE DETECTION SYSTEM INCLUDING SUPPLY, INSTALLATION, AND FINAL TIE-IN: BY OTHERS
- 6) CONNECTION OF NEW HEATING/COOLING SUPPLY & RETURN DUCTWORK TO EXISTING SYSTEM: BY OTHERS.
- 7) SUPPLY, INSTALLATION, AND/OR CONNECTION OF TELEPHONE, DATA, OR NETWORK WIRE/DEVICES:

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8) CONNECTION OF NEW SPRINKLER SYSTEM TO EXISTING FACILITY SYSTEM.

