

SPECIFICATIONS FOR RELOCATABLE CLASSROOMS

**For 6 Classrooms with Restroom Unit
Lamar County School District Office
424 Martin Luther King Drive
Purvis, MS 39475**

**For 2 Classroom Units with Restrooms
Sumrall Elementary School
198 Todd Road
Sumrall, MS 39482**

Provide separate pricing for units at each location

Aluminum ADA ramps at each exit doors included for the 6 Classroom unit shall be included in this reverse auction.

No ramps or steps required for 2 classroom unit and will have to be high set to match existing modular classroom units. 3-6 to 5' max finish floor height.

Preferred layout at end of this document.

I. COMPLIANCE

- A. All relocatable units must conform to the construction requirements as established in this specification.**

II. PROCEDURE

A. Approval of plans and specifications

- 1. Plans shall be prepared by an Architect or Engineer registered in the State of Mississippi.**
- 2. Submit plans for approval to state agencies listed below:**
 - a. State Board of Health - 1 set**
 - b. State Department of Education - Division of School Building and Transportation - 1 set**
- 3. Before bids may be submitted to Lamar County School District, plans submitted by persons, firms or corporations must be approved by the State Department of Education's vendor list in the "Safe and Orderly Schools" section in their MDE website.**

III. MOBILITY

- A. To be considered a relocatable unit, the largest component must be of such construction as to permit highway travel and require a minimum of “on-site” work before the unit may be used for the intended school purposes. Such units must consist of pre-fabricated component parts, or sections, that can be easily joined together or dismantled on the site.**
- B. A minimum of dismantling work and replacement of parts or components should be required to prepare an “in place” unit for relocation to another school site.**

IV. DIMENSION REQUIREMENTS

- A. The following dimensions must equal or exceed the minimum shown below:**
 - 1. Floor to ceiling - 8’ 0”**
 - 2. Exterior width - 24’ or 28’**
 - 3. Clear instructional area - 700 square feet, exclusive of storage, toilets, and heating area.**

V. STRUCTURAL DESIGN

- A. Southern Standard Building Code - (Latest Edition)**
 - 1. All units for the State of Mississippi shall meet code for specified region regardless of site location.**
 - 2. Foundations, as well as structure, shall meet code.**
 - a. Footings shall be “poured in place” concrete. Piers shall be of concrete and/or masonry construction, using 4” jr. steel I-Beam for posts and rails as runners for units to be placed on, reinforced as required. Slab on grade construction will not be allowed. Concrete blocks and piers will not be allowed.**
- B. Anchor bolts shall be used to resist uplift.**

- C. Floor Live Load 75 pounds per square foot and roof live load should be minimum of 20 pounds per square foot with the wind live load being the figure given in the Southern Standard Building Code.
- D. Certification of Design
 - 1. To be approved by the State Department of Education, Division of School Building and Transportation. Structural drawings must bear the seal of a structural engineer registered in the State of Mississippi.

VI. CHASSIS

- A. Shall be perimeter in type and design.
- B. All I-Beams are made of A-36 steel or better.
- C. Either 8" or 10" I-Beam will be used as chassis beams. The front and rear members will be the same depth of I-Beam as those used on the sides. The I-Beam will be checked to see if it corresponds with the size specified.
- D. Placement of axles shall be indicated on the chassis drawing. This placement is expressed on the drawing as a distance the axles are located from the front cross member. The axle location has been determined by engineering analysis, taking into account the gross weight, total length, the necessary coupling hitch weight, total distance, and turning radius. The coupling weight is not less than 12% nor more than 25% of the gross weight. The axles, rims, tires, and hitch will remain the property of the manufacturer.
- E. Weld Quality - All welds on the steel chassis are full welds with no burn-throughs or skips. Where the main I-Beams are butted together the joint is either full penetration weld from both sides of the web and flanges, or as it is welded on one side of the web reinforced on the other side of the web of the I-Beam. This plate is at least 4" wide and is welded along all four sides. The difference in the height of the plate and web of the I-Beam is not more than 1½ inches.
- F. Chassis painting - All exposed metal of the chassis system is completely painted to prevent corrosion. This includes the inside surfaces of I-Beams, angles and channels. Black is the color of the paint and the type of paint is either an asphaltic base, a latex base, or a water reducible enamel.

- G. Lag Bolt Spacing - At least one lag bolt for every 40 sq. ft. of floor area will be used to fasten the chassis to the floor system. One lag bolt will always be installed at 4" intervals. The remaining required lag bolts will be evenly distributed throughout the rest of the chassis area. The lag bolt size is 5/16" x 2 1/2".**
- H. A serial number will be stamped into each frame to identify the manufacturer, time, and place of manufacture.**

VII. CONSTRUCTION MATERIALS AND STANDARDS

A. Required:

- 1. All wall framing shall be 2x4 wood studs @ 16" O.C. Double studs at and over all doors with extra blocking over and under all windows. Three 1x4 belt line running full length and width of building.**
- 2. A 3 1/2" blanket of fiber glass insulation with a vapor barrier in all exterior walls. Insulation factor R-11 or greater.**
- 3. Exterior walls shall be covered with 26 gage galvalume wall panels and appropriate trim. Color to be determined from manufactures standard colors.**
- 4. Interior walls surfaces shall be 1/2" gypsum board with a 1/2 hour fire rating with a vinyl covered material.**
- 5. Top Plate- Double 2x4's.**
- 6. Bottom Plate- Single 2x4.**
- 7. Roof Rafters-Shall be full truss type 2 x pitched rafters @ 16" O.C.**
- 8. Roof is insulated w/ 3 1/2" blanket fiber glass insulation with a vapor barrier on the warm side.**
- 9. Interior ceiling shall be 1/2" gypsum board, carrying a 1/2 hour fire rating.**
- 10. Roof covering shall be 1/2" CD plywood decking with 1/2 recovery board and .060 TPO roof (color white) Roof shall be vented.**
- 11. Floor joists shall be 2x6 #2SPF @ 16" O.C.**

12. Floor decking shall be ¾" T&G (Tongue and Grove)
13. Floor shall be insulated w/ 3 ½" blanket fiber glass insulation with a vapor barrier on the warm side. Insulation factor R-11 or greater.
14. Finish flooring shall be 1/8" LVT no wax tile. Connecting units may have a transition strip installed once connected.
15. The bottom board material, which is fastened to the underside of the unit, is made of a moisture and weather resistant material.
16. This unit shall have two (2) pair of exterior doors which are located at each end of the hallway. All exterior doors shall be Hollow Metal, with upper half of shatter proof glass, panic hardware brushed aluminum (with removal mullion), heavy duty hinges, door closure, and kick plate. There shall be one exit light located above each exterior door. All exterior doors swing outward. All exterior doors are pair of 36" x 80". There will be an exterior light located near each exterior door.
17. The window area shall equal at least 20% of the floor area and shall be at least 50% operable. White in color with Low E insulated glass with insect screens.
18. Interior doors to be 3'-0" x 6'-8" hollow core with heavy duty hinges. All hardware to be brushed aluminum with lever classroom function locks. 6 classroom locks are to be master keyed including exterior doors with each classroom being keyed different. Exterior doors to be keyed for any key or keys for each classroom. 2 classroom unit to be classroom function only
19. Venetian blinds shall be furnished on each window of commercial grade.
20. 6 Classroom Unit. Girls' restroom facility shall consist of one vitreous china water closet being a handicap ADA compliant, one vitreous china wall hung lavatory. Wall materials are to have a smooth finish wall panel that is complete washable. A urine proof smooth trim will be metal. Soap dispensers, paper towel holders and toilet paper holders at water closet (to be furnished by LCSD). Furnish mirrors over lavatories.

2 Classroom Unit. Girls' restroom facility shall consist of one vitreous china water closets with one being a handicap ADA compliant , one vitreous china wall hung lavatory. Wall materials are to have a smooth finish wall panel that is complete

washable. A urine proof smooth trim will be metal. Toilet paper holder at water closet (to be furnished by LCSD) and mirror over lavatory

6 Classroom unit. Boys' restroom facility s, four vitreous china wall hung lavatories, two vitreous china urinals wall hung with flush valve. Wall materials are to have a smooth finish wall panel that is completely washable. Trim will be metal. Soap dispensers, paper towel holders and toilet paper holders at each water closet (to be furnished by LCSD). Furnish mirror over each lavatory. Each toilet compartments (including handicap compartment) to be HDPE (Solid Plastic standard gray) material with overhead braced, including continuous aluminum brackets, continuous stainless steel hinges, aluminum door latch assemblies, stainless steel shoes and heat sinc.

2 Classroom unit. Boys' restroom facility shall be ADA compliant and consist of one vitreous china water closet being a handicap water closet, one vitreous china wall hung lavatory. Wall materials are to have a smooth finish wall panel that is completely washable. Trim will be metal. Toilet paper holder at each water closet (to be furnished by LCSD) and mirror over each lavatory.

22. 6 Classroom unit Restroom unit to have a 20-gallon 240V electric water Heater located above the mop sink with pressure relief valve piped to mop sink. Heater to serve restrooms and mop sink.

2 Classroom Unit Each lavatory to have a under counter in line electric Water heater 110V

23. 6 Classroom Unit to have a floor mounted mop sink with hot and cold Water

24. Provide wall mounted bi-level water cooler in hall

24. Sanitation shall meet approval of the Mississippi State Board of Health.

VII. ELECTRICAL

- A. Electrical current shall be single phase.
- B. All minimum wiring size to be 12/2 copper Romex with ground.
- C. All lighting (LED 4000K) and ceiling vent fans shall be 110V.

- D. All lighting shall not be less than 70 foot-candles of light.
- E. This building shall have one 200 AMP main breaker panel box.
- F. Electrical material, services, appliances, fittings, and other equipment installed, intended for use in, or attached to, the unit shall be listed by nationally recognized testing agencies and all national electrical codes.
- G. Furnish 4 internet / phone locations in each classroom with $\frac{3}{4}$ " raceways for easy access. Locations to be determined after acceptance.

IX. PLUMBING

- A. Plumbing shall meet requirements of the Southern Standard plumbing Code.

X. HEATING

- A. Heating shall be electric, thermostatically controlled, and shall be designed to maintain an inside temperature of 70 degrees F. with an outside low of 10 degrees F.

XI. AIR CONDITIONING

- A. Shall be 3 ton or 36,000 BTU for each classroom with green refrigerant R-410A

XII. SKIRTING

- A. Skirting shall be 26 gage Galvalume vented panels enclosing the entire perimeter of unit of building with galvanized framing matching main structure siding panels color and rib layout.

XIII. SPECIAL EQUIPMENT

Chalk and Tack Board

Each classroom shall contain 16 linear feet of dry erase and 8 linear feet of Cork or fiber tack board.

Teacher's Cabinet

Each classroom shall contain one teacher's cabinet with a hanging rod and Storage shelves.

Shelf and Hook Strip

Each classroom shall contain a hat shelf with 35 coat hooks to be furnished By LCSD.

XIV. NOTICE

ALL BIDS SHALL BE SUBMITTED WITH PLANS AND SPECIFICATIONS OF UNIT YOU ARE SUBMITTED FOR BID.

A. Plans shall include the following:

- 1. Perimeter Frame Plan drawn at scale not less than $1/8'' = 1' 0''$**
- 2. Foundation Plan drawn at scale not less than $1/8'' = 1' 0''$**
- 3. Floor Plan drawn to scale not less than $1/8'' = 1' 0''$. This plan shall show all equipment, electrical lights, outlets, mechanical, etc., door & window schedules**
- 4. Typical Wall Section drawn at scale not less than $3/4'' = 1' 0''$.**
- 5. Anchoring systems shall be specified on detailed plans.**
- 6. Mini-gutters shall be installed around the complete unit with metal Flashing over exterior doors and windows.**

XV. CONTRACTOR RESPONSIBILITY

Work required of party contracting with school officials for furnishing and reinstalling one or more relocatable units:

A. Location of each unit on the school site according to directions of school officials.

- 1. They should not be placed where they could construct width of required means of egress from there or adjacent buildings.**
- 2. Should maintain vehicular access and space for service vehicles.**
- 3. Spacing of units should comply with requirements of Table 600 of the Standard Building code.**

B. Hand excavation and fine grading for footings.

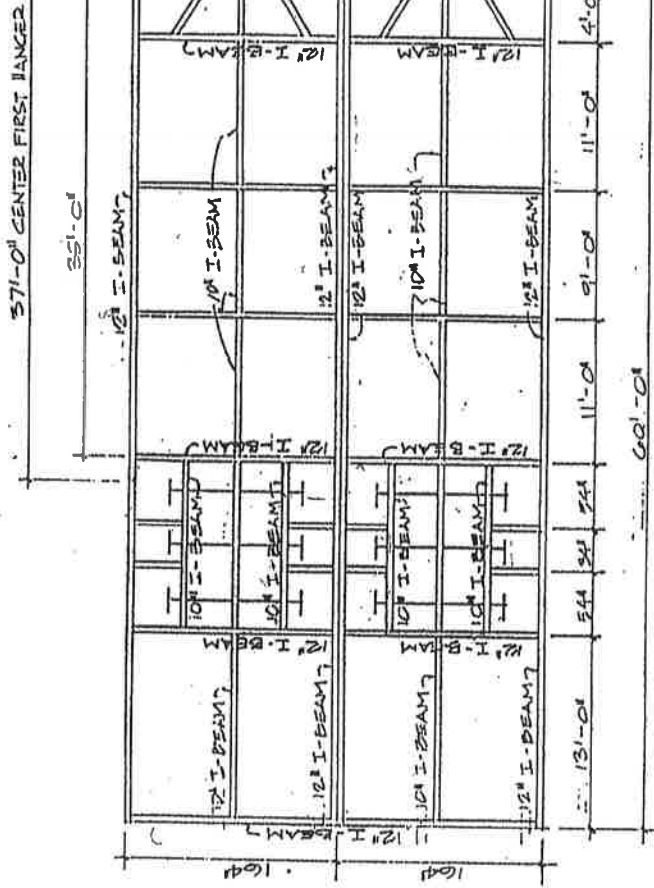
- C. Construction of footings and piers for concrete and steel I-Beam foundations. (A crawl space of 18 inches minimum is required.) Back fill and hand rake area to be covered by unit.**
- D. Complete installation of each unit on foundation including:**
 - 1. Proper anchorages to foundation and/or tie-downs.**
 - 2. Installation of metal skirt.**
- E. Stub-out of utility lines so they are easily accessible for permanent tie-in by school officials.**
- F. Complete cleaning of interior and exterior of each unit. Clean site adjacent to unit and leave grounds in neat condition and unit ready for occupancy.**

XVI. GUARANTEES AND WARRANTIES

- A. Contractor and/or vendor shall guarantee all labor, materials, and equipment for a period of one year after final acceptance of units in contract.**
- B. Furnish the contracting authorities:**
 - 1. All guarantees or warranties furnished by the manufacturers of any equipment or components incorporated in the work of the contract.**
- C. The standard guarantee or warranty of the manufacturer of the main structural unit- before entering a contract, LCSD officials will consider the terms of the warranty of the unit manufacturer as to time limitations, etc.**

XVII. SCHOOL AUTHORITY RESPONSIBILITY

Preliminary clearing and/or grading prior to arrival of relocatable unit contractor.



APPROVED DATE: 7-18-90
 BY: *[Signature]*
 STATE DEPT. OF EDUCATION
 DIVISION OF
 SCHOOL BUILDING & TRANSPORTATION

TYPE A TYPE B
 28' x 60' 28' x 54'
 28' x 52' 28' x 48'
 28' x 60' 28' x 60'
 28' x 60'

[Signature]

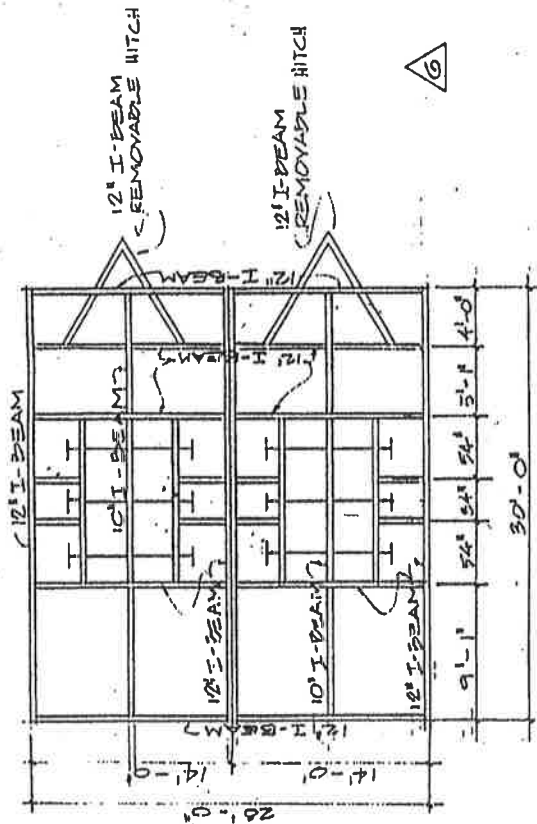


PERIMETER FRAME: 28' x 60' 4'

SCALE: 1/8" = 1'-0" APPROVED BY: _____ DRAWN BY: _____

DATE: _____

DRAWING NUMBER: _____



APPROVED DATE: 7-18-70
 BY: *[Signature]*
 STATE DEPARTMENT OF EDUCATION
 DIVISION OF
 SCHOOL BUILDING & TRANSPORTATION

TYPE D:
 28 x 28

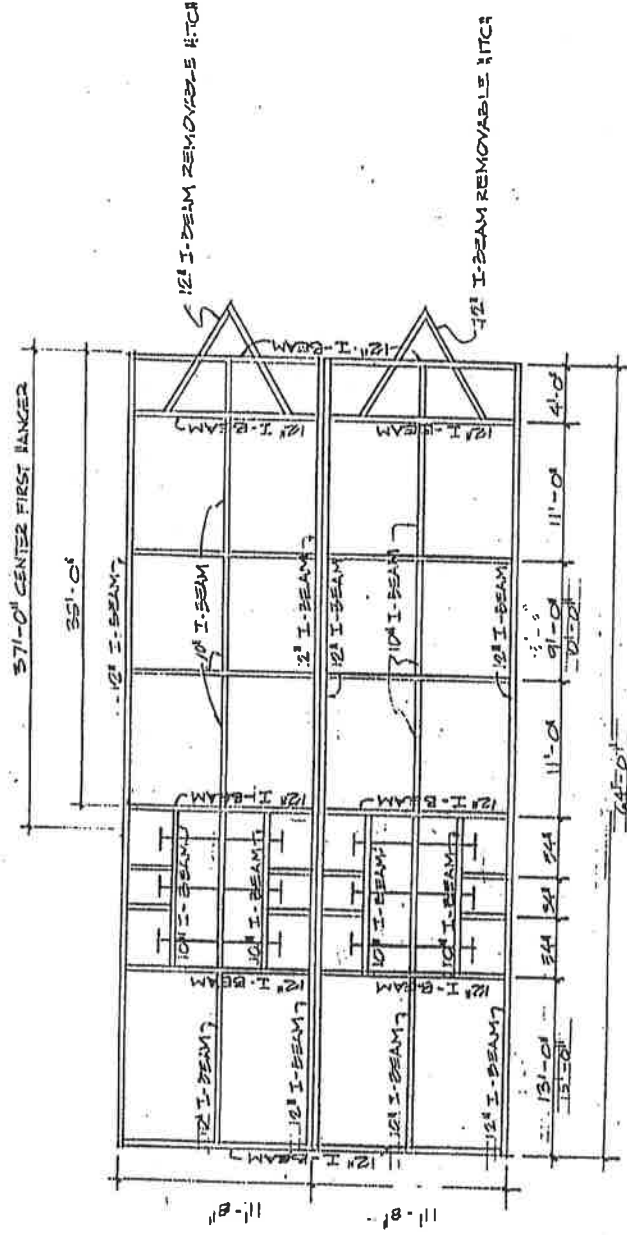
TYPE C:
 28 x 30

PERIMETER FRAME TYPE C	
SCALE: 1/8" = 1'-0"	APPROVED BY:
DATE:	DRAWN BY:
FOR SINGLE CLASSRM. UNIT	
DRAWING NUMBER	



[Handwritten signature]





PERIMETER FRAME: $E_{24 \times 60 \times 1/2}$

SCALE: $\frac{1}{8}'' = 1'-0''$	APPROVED BY	DRAWING NUMBER
DATE:	DRAWN BY	

Don't know



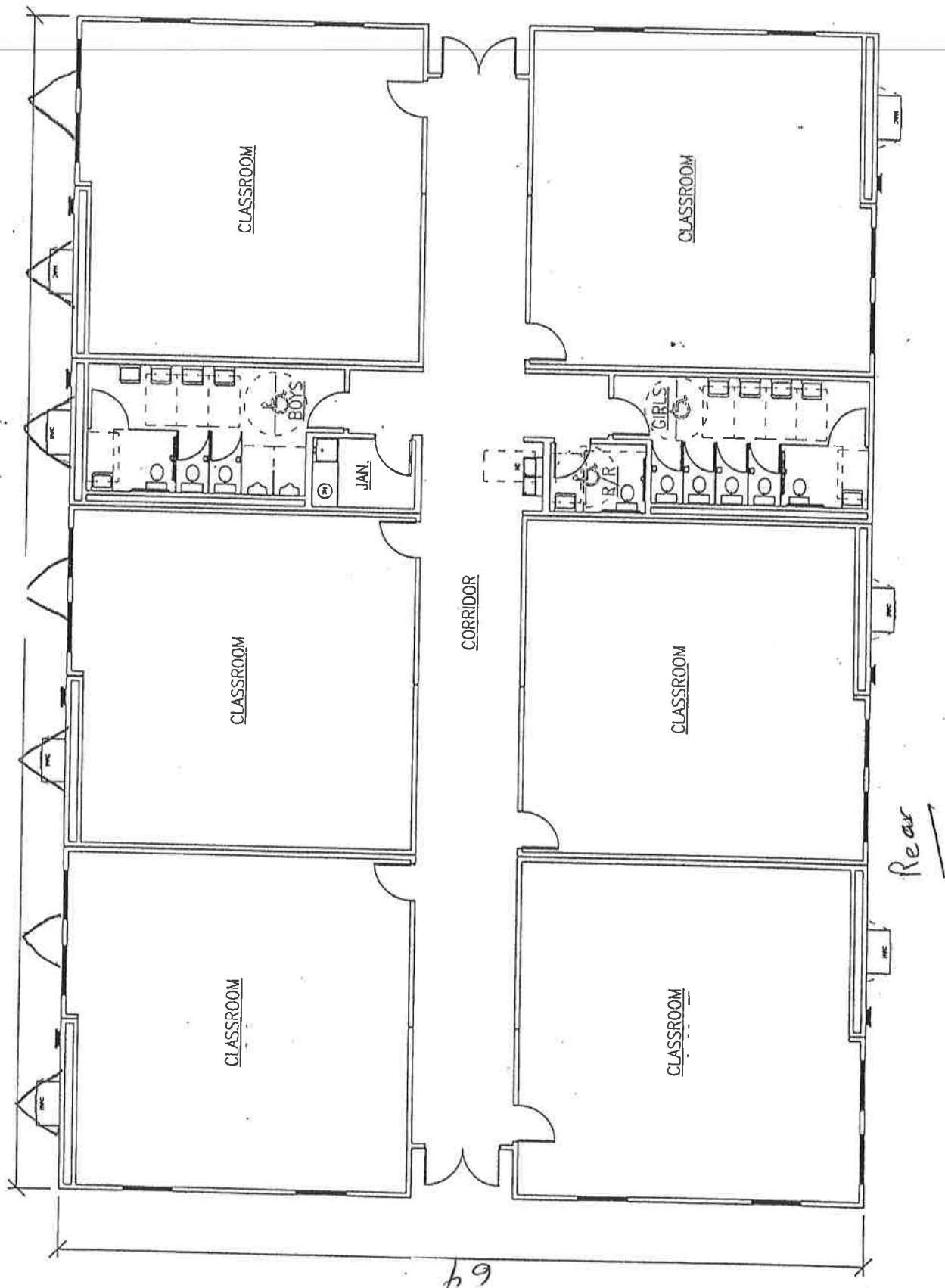


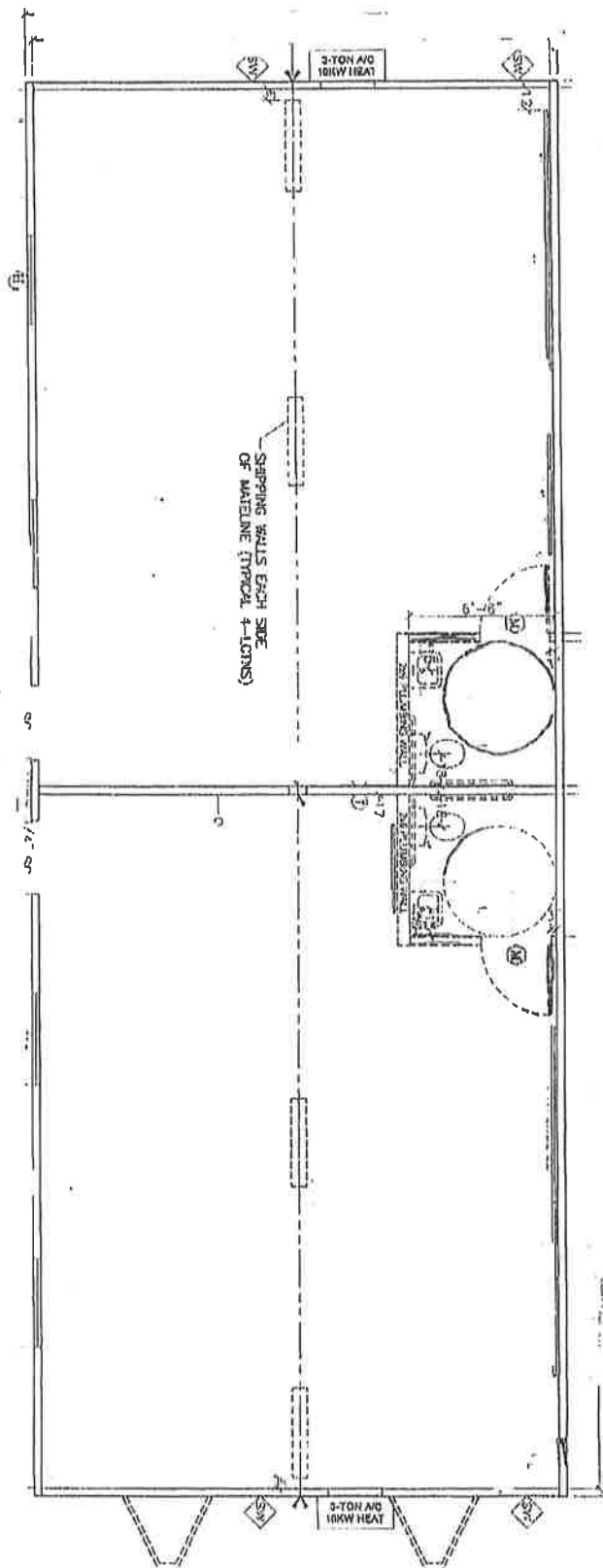
LAMAR COUNTY
School District

Purvis / Sumrall Classrooms w/Restroom Bid Info

Vendor Name	Contact Phone	Email	Estimated delivery
		(6) Classroom	
		(2) Classroom	

Modular Cost	Delivery	Labor (set-up, anchor)	Total Price
(6) Classroom			
(2) Classroom			





#2