

**SPECIFICATIONS AND BID FORM FOR
THE PURCHASE OF NEW MODULAR CLASSROOM BUILDINGS**

Sealed bids will be received by the Central Community School System (CCSS), 10510 Joor Road, Suite 300, Baton Rouge, LA 70818, up to 10:00 a.m. C.S.T., on November 29, 2017 for the Purchase of New Modular Classroom Buildings.

All bids shall be submitted sealed to the CCSS on or before the above time and date, at 10510 Joor Road, Suite 300, Baton Rouge, LA 70818 in a **sealed envelope plainly marked “New Modular Classroom Buildings”**. Bids may also be submitted electronically at www.centralbidding.com. At the above time and place, bids will be publically opened and read aloud.

GENERAL SPECIFICATIONS

1. SCOPE:

- 1.1. The intent of this solicitation is to obtain competitive bids for the purchase of new Modular Classroom Buildings. Central Community School System (CCSS) intends to purchase of three (3) 152’ x 64’ classrooms (10 classrooms with restrooms) and one (1) 51’ x 64’ classroom (4 classrooms with restrooms) in like new condition and less than three years old in accordance with the terms, conditions and specifications contained herein.
- 1.2 All prices shall include delivery, above grade setup, anchor/tie down, vinyl skirting and three (3) year warranty on mechanical equipment. Overall one year service warranty on roof, air conditioning and heating units required.
- 1.3 The awarded modular classroom buildings must be delivered and installed on the designated CCSS site(s) as follows:
 - a. Two (2) 152’ x 64’ classrooms to be delivered to Bellingrath Hills Elementary School, 6612 Audusson Drive, Greenwell Springs, LA 70769 on or about January 24, 2018 as directed by CCSS
 - b. One (1) 152’ x 64’ classroom and one (1) 51’ x 64’ classroom to be delivered to Tanglewood Elementary School, 9352 Rustling Oaks Avenue, Baton Rouge, LA 70818 on or about June 1, 2018 as directed by CCSS

- c. Final trim out of all modular buildings must be completed within two (2) weeks of delivery

1.4 Central Community School System reserves the right to reject any and all bids and adjust quantities on any or all items at its discretion.

DETAILED SPECIFICATIONS FOR 154' X 64' UNITS

NOTE: The mandatory floor plan for the unit is attached to the end of these Detailed Specifications

1.0 FRAME 152' x 64' UNIT

- 1.1 TYPE: Outrigger
- 1.2 BEAM: 12" I-beam
- 1.3 OUTRIGGER: 14 ga. formed steel at 48" o.c.
- 1.4 CROSSMEMBER: 14 ga. formed steel at 48" o.c.
- 1.5 HEADERS: Standard 14 ga. formed steel front only
- 1.6 HITCH: Demountable with 2 5/16" coupler and elevating jack.
- 1.7 AXLES: All units shall have under slung 5000# axles with Electric brakes as required
- 1.8 TIRES: 8.00 x 14.5 10 ply rated on all units
- 1.9 PAINT: Black latex paint on entire assembly less axles

2.0 FLOOR

- 2.1 BOTTOM BOARD: .040 one piece rolled continuous construction board
- 2.2 INSULATION: R-30 Kraft faced fiberglass batts
- 2.3 JOISTS: 2 x 10 #2 SYP installed transverse at 16" o.c.
- 2.4 PERIMETER RAILS Double 2 x 10 #2 SYP on all sides
- 2.5 DECKING: Single layer 3/4" tongue and groove plywood installed to floor joists.
- 2.6 COVERING: Sheet vinyl shall be plant installed in the multi-occupant restrooms and storage closets. Sheet vinyl shall be Astro Flexitec, Techno 905

1/8" VCT shall be plant installed throughout all remaining areas.

3.0 **EXTERIOR WALLS**

- 3.1 TYPE: IBC Framing
- 3.2 STUDS: 3-5/8" metal stud framing @ 16" o.c.
- 3.3 BOTTOM PLATE: Metal Runner track
- 3.4 TOP PLATE: Double metal stud or box beam as required
- 3.5 HEADERS Double metal studs or box beam as required
- 3.6 WALL HEIGHT: Built full height to bottom of roof framing
- 3.8 FIRE BLOCKS: 2 x 4 installed @ ceiling line.
- 3.9 INSULATION R-13 faced fiberglass batts installed with facing orientated to exterior of wall assembly
- 3.10 SHEATHING 7/16" OSB or 3/8" CDX plywood sheathing installed full Height all exterior walls. 15# felt at windows, doors and HVAC units. A water resistive barrier shall be installed full height the entire perimeter of the exterior.
- 3.11 SIDING 26 Gauge, high rib commercial steel siding with "R" panel profile and baked enamel finish. Color shall be selected by owner.
- 3.12 TRIM 26 Gauge corners, "J" flashing at windows and doors. Color shall be same as siding
26 Gauge "Z" flashing at bottom of siding. Color shall be same as siding
- 3.13 FASCIA 6" 26 Gauge steel fascia/rake trim around entire building.
- 3.14 TIE DOWNS Frame ties and earth anchors per plans
- 3.15 SKIRTING Vinyl skirting with vents and access doors

4.0 **INTERIOR WALLS**

- 4.1 STUDS 3-5/8" metal studs @ 16" o.c.
- 4.2 BOTTOM PLATE Metal Runner track
- 4.3 TOP PLATE Double metal stud or box beam as required
- 4.4 HEADERS Double metal studs or box beam as required
- 4.5 WALL HEIGHT 8' - 1 1/2" minimum corridor walls shall be fire rated and shall be built full height to bottom of roof assembly for a 1 hour fire rating. Refer to plans for location of 1 hour walls.

- 4.6 INTERIOR FINISH 5/8" type "X" vinyl covered gypsum installed full height throughout, with the exception of the restroom and storage closet. VCG shall be Ruff Stuff Frost.
8' fiberglass reinforced Class "C" panel laminated to 5/8" type "X" gypsum in restrooms and storage closet. Color shall be white.
- 4.7 INSULATION All interior walls shall be insulated to ceiling height with R-11, 3 1/2" un-faced fiberglass batts
- 5.0 **BASE**
- 5.1 BASE 4" vinyl cove base throughout. Color shall be selected by CCSS. Base shall be plant installed
- 5.2 WINDOWS The jambs of all windows shall be finished the same as the walls.
- 5.3 WALL TRIM Wall seams and corners shall receive prefinished vinyl covered trims as applicable
- 6.0 **ROOF**
- 6.1 RAFTERS Minimum 2 x 8 #2 SYP installed @ 24" o.c
- 6.2 RAILS 2 x 8 #2 SYP
- 6.3 WOOD TRUSS Double 1 1/2" pre-engineered wood girders shall be installed on each side of the mate lines. Full height load bearing mate walls may be substituted where possible.
- 6.4 BRIDGING 1 1/2" steel angle installed @ 8" o.c. from truss to rafter
- 6.5 CEILING 2' x 4' x 5/8" acoustical mineral fiber panel in suspended T-grid system. Armstrong, Cortega #769 with Prelude XL
15/16" exposed tee or equal. Ceiling shall be field installed after all modules are set-up and installation is complete.
- 6.6 CEILING HEIGHT The finished ceiling height throughout the building shall Be 8'-0"
- 6.7 INSULATION R-30 Un-faced fiberglass batts installed at ceiling line.
- 6.8 DRAFT STOP Per code requirements
- 6.9 SHEATHING 7/16" OSB or 1/2" CDX plywood installed perpendicular to The roof joists
- 6.10 ROOFING 29 Gauge high rib commercial steel roofing panels with R-profile and galvalume finish installed over one layer of 15# felt
- 7.0 **EXTERIOR DOORS**

- 7.1 DOORS 36" x 80" x 1 3/4" Pair doors, 18 gauge hollow core Commercial steel. Doors to have minimum U-Value of 0.70
- 7.2 FRAMES Steel doors shall be equipped with 16 gauge knockdown Commercial steel frames
- 7.3 HARDWARE All exterior or steel doors shall be equipped with 1 1/2" pr. Of 4 1/2" x 4 1/2" ball bearing, non removable pin butt hinges, full weather strip and threshold
- 7.4 WINDOW Each exterior door shall be provided WITH A 7" x 24" Window kit with 1/4" wire safety glass.
- 7.5 EXIT DEVICE Exterior steel doors shall be equipped with a keyed panic bar with exterior lever handle pull, "Tell" or equal
- 7.6 CLOSER A hydraulic closer with back check feature shall be provided on all exterior steel doors. "Tell" or equal
- 7.7 FINISH The interior and exterior side of the steel doors and frames shall be painted color as selected by client.

8.0 INTERIOR DOORS

- 8.1 DOORS 1 3/4" x 36" x 80" solid core wood, pre-finished, Jeld-Wen Imperial Oak or equal.
- 8.2 FRAMES All interior doors shall be set in prefinished 20 ga. commercial steel frames with factory baked enamel finish; "Timely" or equal. Color shall be brown. Designated door frames shall have a 20 minute fire label
- 8.3 HARDWARE All non fire rated interior doors shall be equipped with 1 1/2" pr, 4 1/2" x 4 1/2" mortise hinges US 26D Finish
- 8.4 CLOSERS A hydraulic closer with back check feature shall be provide on restroom doors; "Tell" or equal
- 8.5 LATCHSETS Lever handle "Tell" or equal locksets. Classrooms and storage shall be keyed function. Restrooms shall be passage function.

9.0 WINDOWS

- 9.1 TYPE Size as indicated on drawings. Egress type aluminum framed, single hung, vertical slider, mill finish frame, glazing shall be tinted, dual pane insulated low-e glass and window screen. Windows shall have a

minimum U-Value of .55 and a SHGC of .25

10.0 ELECTRICAL

NOTE: See the “Electrical Specification Notes” located on the modular building electrical drawings for all information relative to the electrical construction of this modular building. All information located therein shall be considered as the electrical section of these specifications.

11.0 PLUMBING

- 11.1 WATERLINES Water lines shall be Copper ASTM B88 with appropriate fittings. All fixtures shall be provided with shut-off valves.
- 11.2 WASTELINES PVC-DWV-SCH-40 drain, waste and vent lines with multiple drops; manifolding by owner
- 11.3 WATERHEATER 208v 30 gallon electric tank type with T&P valve (10 classroom building), point of use instantaneous electric (4 classroom building)
- 11.4 WATER CLOSET White vitreous china tank type with open front seat and elongated bowl. Designated water closets shall be installed for the handicapped.
- 11.5 MODESTY PARTITIONS 5’0” high steel with baked on enamel finish modesty partitions and urinal blinds. Units shall be installed 12” from floor with modesty door and lock. Color shall be sand.
- 11.6 URINAL White vitreous china wall hung with flushometer valve
- 11.7 LAVATORIES Vitreous china wall hung with 4” washer less center set faucet. Designated lavatories shall be installed for the handicapped and shall be equipped with Handi-guard water supply and drain protective covers and wrist blade handle.
- 11.8 MOP SINK Single bowl fiberglass mounted on legs with laundry tray faucet.
- 11.9 WATER COOLER Wall mounted refrigerated electric water coolers per plans, (dual level ADA compliant @ 4 classroom building) (single level ADA compliant @ 10 classroom building).
- 11.10 FLOOR DRAINS 3” Floor drains installed in each restroom with trap primer

- 11.11 ACCESSORIES Stainless steel grab bars at each handicapped water closet. 18” x 36” metal edged mirror above each lavatory in restrooms only.
- 12.0 H.V.A.C.**
- 12.1 PACKAGED 208v, 1-ph wall hung H.V.A.C. systems with hot gas reheat, economizer, energy recovery ventilator, 410A refrigerant, Bard or equal. 208v, 1-ph Electric resistance heat strip in each air conditioner
- 12.2 HEATING 208-v 1-ph Electric resistance heat strip in each air conditioner.
- 12.3 SUPPLY DUCTS Rigid foil faced fiberglass G90 sheet metal duct with 1” wall thickness installed below rafters with insulated circular flex to designated diffusers.
- 12.4 DIFFUSERS 24” x 24” White stamped aluminum with adjustable damper
- 12.5 RETURN AIR Through conditioned air space to return grills located at HVAC units LUXPRO PSP511 or equal
- 13.0 CASEWORK** N/A
- 14.0 CLASSROOM BOARDS**
- 14.1 TACKBOARDS Not Used
- 14.2 MARKERBOARDS Quantity and placement indicated on drawings. Claridge #MLC or equal, 2048 white marker boards with heavy duty satin finished anodized aluminum frames and troughs.
- 15.0 DESIGN CRITERIA**
- 15.1 FLOORS The floor systems shall be constructed to accommodate a live load of 50 psf, in addition to the dead loads.
- 15.2 WALLS The exterior walls shall be framed, braced and secured in accordance with the requirements of the IBC based on 90 mile per hour wind loads, 3 second gust (subject to change based on differing local codes of the building installation site)
- 15.3 ROOFS All structural components of the roof system shall be designed and erected to span their respective

areas and carry a live load of 20 PSF and a dead load of 10 PSF

- 15.4 HEATING The heating system shall be designed to maintain an interior temperature of 72 degrees + or – 2 degrees
- 15.5 COOLING The cooling system shall be designed to maintain an interior temperature of 75 degrees + or – 2 degrees
- 15.6 CODES The building shall be built in accordance with the following codes:
 - A. International Building Code 2012
 - B. International Plumbing Code 2012 (with Louisiana Amendments)
 - C. International Mechanical Code 2009
 - D. National Electrical Code 2011
 - E. International Energy Conservation Code 2011
 - F. Louisiana Building Code
 - G. Louisiana Industrial Building Code
 - H. Louisiana Sealed Prints
 - I. Life Safety Code

16.0 UTILITIES

- 16.1 ELECTRIC UTILITIES The owner shall be responsible for providing the main electrical distribution system, including the coordination of the main electrical service tie-in with the local power company, the installation of all required power company metering equipment, main incoming primary and secondary feeders, the main electrical distribution panel, and the feeders and interconnections between such main distribution panel and all modular building sub-panels. All electrical sub-panels shall come pre-installed on the modular building by the manufacturer).
- 16.2 WATER UTILITIES The owner will be responsible for bringing the fresh water service to the building and making the final connection.
- 16.3 SEWER UTILITIES The owner will be responsible for bringing the sewer line to the building providing and installing the drain, waste and vent manifold to the contractors supplied sewer and vent drops which are through the floor at each fixture.
- 16.4 FOUNDATION Piers shall be installed down each I-beam and at maximum 8'-0" o.c. and at column locations. Piers

SPECIFICATIONS

shall consist of stacked CMU blockings installed on 4" x 16" x 16" precast concrete pad. Each building shall be securely anchored to the ground using the auger type anchors. Any required cast in place concrete foundation elements shall be provided by the owner.

16.5 ENTRY ASSEMBLIES Provided and installed by owner

16.6 SITE PREPARATION No provisions for site work have been included. The owner is responsible for all clearing, grubbing, filling backfilling, grading and associated compaction to achieve a uniform soil bearing capacity of 2500 PSF prior to delivery of the building units. In addition to the above, the site shall be uniformly level (+/- 3"). so a finished floor to grade elevation of a maximum 36" shall be present at all building entries and at the entry of the step and ramp assembly. The site shall have adequate drainage to provide a positive flow of storm water away from the building. Also, storm water shall not pass under the building from any direction. The owner is also responsible for providing clear access to the site. Clear access to the site is defined as build pad being accessible for both the delivery truck and the building unit. Physical on site obstructions shall not prevent the delivery truck from being able to deliver the building unit to the pad site, detach from the building and depart the site.

OTHER EXCLUSIONS:

Surveys
Civil Design
Spills testing/Analysis
Site Development
Utility Extensions/Connections

Plumbing Manifold
Main Distribution Panel
Electrical Homeruns from Sub-Panels to MDP
Landscaping and Irrigation
Poured Concrete
Entry Assemblies
Canopies/walk way covers
Fire Alarm
Fire Sprinkler
Data/Comm
Science Lab Equipment/Stations
Computer Lab Equipment/Stations
Kitchen Equipment
Building Permits
TAS Compliance for Accessible Routes beyond the Buildings Footprint
Performance and Payment Bonds
Taxes

DETAILED SPECIFICATIONS FOR 52' x 64' UNIT

NOTE: The mandatory floor plan for the unit is attached to the end of these Detailed Specifications

1.0 FRAME 51' x 64' UNIT

- 1.1 TYPE: Outrigger
- 1.2 BEAM: 12" I-beam
- 1.3 OUTRIGGER: 14 ga. formed steel at 48" o.c.
- 1.4 CROSSMEMBER: 14 ga. formed steel at 48" o.c.
- 1.5 HEADERS: Standard 14 ga. formed steel front only
- 1.6 HITCH: Demountable with 2 5/16" coupler and elevating jack.
- 1.7 AXLES: All units shall have under slung 5000# axles with Electric brakes as required
- 1.8 TIRES: 8.00 x 14.5 10 ply rated on all units
- 1.9 PAINT: Black latex paint on entire assembly less axles

2.0 FLOOR

- 2.1 BOTTOM BOARD: .040 one piece rolled continuous construction board
- 2.2 INSULATION: R-30 Kraft faced fiberglass batts
- 2.3 JOISTS: 2 x 10 #2 SYP installed transverse at 16" o.c.
- 2.4 PERIMETER RAILS Double 2 x 10 #2 SYP on all sides
- 2.5 DECKING: Single layer 3/4" tongue and groove plywood installed to floor joists.
- 2.6 COVERING: 1/8" VCT shall be plant installed throughout all remaining areas. VCT color shall be 1317

3.0 EXTERIOR WALLS

- 3.1 TYPE: IBC Framing
- 3.2 STUDS: 3-5/8" Metal stud framing @ 16" o.c.
- 3.3 BOTTOM PLATE: Metal running track
- 3.4 TOP PLATE: Double metal stud or box beam as required
- 3.5 HEADERS Double metal stud or box beam as required
- 3.7 WALL HEIGHT: Built full height to bottom of roof framing
- 3.8 FIRE BLOCKS: 2 x 4 installed @ ceiling line.
- 3.9 INSULATION R-13 faced fiberglass batts installed with facing orientated to exterior of wall assembly

- 3.10 SHEATHING 7/16" OSB or 3/8" CDX plywood sheathing installed full height all exterior walls. 15# felt at windows, doors and HVAC units. A water resistive barrier shall be installed full height the entire perimeter of the exterior.
- 3.11 SIDING 26 Gauge, high rib commercial steel siding with "R" panel profile and baked enamel finish. Color shall be Light Stone
- 3.12 TRIM 26 Gauge corner, "J" flashing at windows and doors. Color shall be same as siding
26 Gauge "Z" flashing at bottom of siding. Color shall be same as siding
- 3.13 FASCIA 6" 26 Gauge steel fascia/rake trim around entire building. Color shall be Cocoa Brown
- 3.14 TIE DOWNS Frame ties and earth anchors per plans
- 3.15 SKIRTING Vinyl skirting with vents and access doors

4.0 **INTERIOR WALLS**

- 4.1 STUDS 3-5/8" metal stud framing @ 16" o.c.
- 4.2 BOTTOM PLATE Metal runner track
- 4.3 TOP PLATE Double stud or box beam as required
- 4.4 HEADERS Double studs or box beam as required
- 4.5 WALL HEIGHT 8' -1 1/2" minimum Wall surrounding the restrooms shall be built full height to bottom of roof assembly.
- 4.6 INTERIOR FINISH 5/8" type "X" vinyl covered gypsum installed full height VCG shall be Ruff Stuff Taupe.
- 4.7 INSULATION All interior walls shall be insulated to ceiling height with R-11, 3 1/2" un-faced fiberglass batts

5.0 **MOULDING**

- 5.1 BASE 4" vinyl cove base throughout. Color shall be CB-35
Base shall be plant installed
- 5.2 WINDOWS The jambs of all windows shall be finished the same as the walls.
- 5.3 WALL TRIM Wall seams and corners shall receive prefinished vinyl covered trims as applicable

6.0 **ROOF**

- 6.1 RAFTERS Minimum 2 x 8 #2 SYP installed @ 24" o.c

SPECIFICATIONS

- 6.2 RAILS 2 x 8 #2 SYP
- 6.3 WOOD TRUSS Double 1 ½” pre-engineered wood girders shall be installed on each side of the mate lines. Full height load bearing mate walls may be substituted where possible.
- 6.4 BRIDGING 1 ½” steel angle installed @ 8” o.c. from truss to rafter
- 6.5 CEILING 2’ x 4’ x 5/8” acoustical mineral fiber panel in suspended T-grid system. Armstrong, Cortega #769 with Prelude XL 15/16” exposed tee or equal. Ceiling shall be field installed after all modules are set-up and installation is complete.
- 6.6 CEILING HEIGHT The finished ceiling height throughout the building shall Be 7 ‘-10”
- 6.7 SUB-CEILING N/A
- 6.8 INSULATIONR-30 Un-faced fiberglass batts installed at ceiling line
- 6.9 DRAFT STOP Per code requirements
- 6.10 SHEATHING 7/16” OSB or ½” CDX plywood installed perpendicular to The roof joists
- 6.11 ROOFING 29 Gauge high rib commercial steel roofing panels with R-profile and galvalume finish installed over one layer of 15# felt
- 7.0 **EXTERIOR DOORS**
- 7.1 DOORS 36” x 80” x 1 ¾” Pair doors, 18 gauge hollow core Commercial steel. Doors to have minimum U-Value of 0.70
- 7.2 FRAMES Steel doors shall be equipped with 16 gauge knockdown Commercial steel frames
- 7.3 HARDWARE All exterior steel doors shall be equipped with 1 ½” pr. Of 4 ½” x 4 ½” ball bearing, non removable pin butt hinges, full weather strip and threshold
- 7.4 WINDOW Each exterior door shall be provided with a 7” x 24” Window kit with ¼” wire safety glass.
- 7.5 EXIT DEVICE Exterior steel doors shall be equipped with a keyed panic bar with exterior lever handle pull, “Tell” or equal
- 7.6 CLOSER A hydraulic closer with back check feature shall be provided on all exterior steel doors. “Tell” or equal.
- 7.7 FINISH The interior and exterior side of the steel doors and frames shall be painted Coco Brown.

SPECIFICATIONS

8.0 INTERIOR DOORS

- 8.1 DOORS 1 3/4" x 36" x 80" solid core wood, pre-finished, Jeld-Wen Imperial Oak or equal. Designated doors shall be 20 minute fire rated as required per code.
- 8.2 FRAMES All interior doors shall be set in prefinished 20 ga. commercial steel frames with factory baked enamel finish; "Timely" or equal. Color shall be Brown. Designated door frames shall have a 20 minute fire rated as required per code
- 8.3 HARDWARE All non fire rated interior doors shall be equipped with 1 1/2" pr, 4 1/2" x 4 1/2" mortise hinges US 26D Finish Fire rated interior doors shall be equipped with self-closing 4 1/2" x 4 1/2" mortise hinges US 26D Finish
- 8.4 LATCHSETS Lever handle "Tell" or equal locksets. Keyed function.

9.0 WINDOWS

- 9.1 TYPE Size and quantity as indicated on plans. Egress type aluminum framed, single hung, vertical slide, mill finish frame, insulated low-E.

10.0 ELECTRICAL

NOTE: See the "Electrical Specification Notes" located on the modular building electrical drawings for all information relative to the electrical construction of this modular building. All information located therein shall be considered as the electrical section of these specifications.

11.0 PLUMBING

- 11.1 WATERLINES Water lines shall be Copper ASTM B88 with appropriate fittings. All fixtures shall be provided with shut-off valves.
- 11.2 WASTELINES PVC-DWV-SCH-40 drain, waste and vent lines with multiple drops; manifolded by owner
- 11.3 WATERHEATER 208v 30 gallon electric tank type with T&P valve (10 classroom building), point of use instantaneous electric (4 classroom building)

- 11.4 WATER CLOSET White vitreous china tank type with open front seat and elongated bowl. Designated water closets shall be installed for the handicapped.
- 11.5 MODESTY PARTITIONS 5'0" high steel with baked on enamel finish modesty partitions and urinal blinds. Units shall be installed 12" from floor with modesty door and lock. Color shall be sand.
- 11.6 URINAL White vitreous china wall hung with flushometer valve
- 11.7 LAVATORIES Vitreous china wall hung with 4" washer less center set faucet. Designated lavatories shall be installed for the handicapped and shall be equipped with Handi-guard water supply and drain protective covers and wrist blade handle.
- 11.8 MOP SINK Single bowl fiberglass mounted on legs with laundry tray faucet.
- 11.9 WATER COOLER Wall mounted refrigerated electric water coolers per plans, (dual level ADA compliant @ 4 classroom building) (single level ADA compliant @ 10 classroom building).
- 11.10 FLOOR DRAINS 3" Floor drains installed in each restroom with trap primer
- 11.11 ACCESSORIES Stainless steel grab bars at each handicapped water closet. 18" x 36" metal edged mirror above each lavatory in restrooms only.
- 12.0 H.V.A.C.**
- 12.1 PACKAGED 208v, 1-ph wall hung H.V.A.C. systems with hot gas reheat, economizer, energy recovery ventilator, 410A refrigerant, Bard or equal. 208v, 1-ph Electric resistance heat strip in each air conditioner
- 12.2 HEATING 208-v 1-ph Electric resistance heat strip in each air conditioner.
- 12.3 SUPPLY DUCTS Rigid foil faced fiberglass G90 sheet metal duct with 1" wall thickness installed below rafters with insulated circular flex to designated diffusers.
- 12.4 DIFFUSERS 24" x 24" White stamped aluminum with adjustable damper

SPECIFICATIONS

- 12.5 RETURN AIR Through conditioned air space to return grills located at HVAC units LUXPRO PSP511 or equal
- 13.0 **CASEWORK** N/A
- 14.0 **CLASSROOM BOARDS**
- 14.1 TACKBOARDS Not used.
- 14.2 MARKERBOARDS Quantity, size and placement as indicated on drawings. Claridge #MLC or equal, 2048 white marker boards with heavy duty satin finished anodized aluminum frames and troughs.
- 15.0 **DESIGN CRITERIA**
- 15.1 FLOORS The floor systems shall be constructed to accommodate a live load of 50 psf, in addition to the dead loads.
- 15.2 WALLS The exterior walls shall be framed, braced and secured in accordance with the requirements of the IBC based on 90 mile per hour wind loads, 3 second gust (subject to change based on differing local codes of the building installation site)
- 15.3 ROOFS All structural components of the roof system shall be designed and erected to span their respective areas and carry a live load of 20 PSF and a dead load of 10 PSF
- 15.4 HEATING The heating system shall be designed to maintain an interior temperature of 72 degrees + or – 2 degrees
- 15.5 COOLING The cooling system shall be designed to maintain an interior temperature of 75 degrees + or – 2 degrees
- 15.6 CODES The building shall be built in accordance with the following codes:
- A. International Building Code 2012
 - B. International Plumbing Code 2012 (with Louisiana Amendments)
 - C. International Mechanical Code 2012
 - D. National Electrical Code 2011
 - E. International Energy Conservation Code 2011
 - F. Louisiana Building Code
 - G. Louisiana Industrial Building Code

SPECIFICATIONS

H. Louisiana Sealed Prints

16.0 UTILITIES

- 16.1 ELECTRIC UTILITIES The owner shall be responsible for providing the main electrical distribution system, including the coordination of the main electrical service tie-in with the local power company, the installation of all required power company metering equipment, main incoming primary and secondary feeders, the main electrical distribution panel, and the feeders and interconnections between such main distribution panel and all modular building sub-panels. All electrical sub-panels shall come pre-installed on the modular building by the manufacturer).
- 16.2 WATER UTILITIES The owner will be responsible for bringing the fresh water service to the building and making the final connection.
- 16.3 SEWER UTILITIES The owner will be responsible for bringing the sewer line to the building providing and installing the drain, waste and vent manifold to the contractors supplied sewer and vent drops which are through the floor at each fixture.
- 16.4 FOUNDATION Piers shall be installed down each I-beam and at maximum 8'-0" o.c. and at column locations. Piers shall consist of stacked CMU blockings installed on 4" x 16" x 16" precast concrete pad. Each building shall be securely anchored to the ground using the auger type anchors. Any required cast in place concrete foundation elements shall be provided by the owner.
- 16.5 ENTRY ASSEMBLIES Provided and installed by owner
- 16.6 SITE PREPARATION No provisions for site work have been included. The owner is responsible for all clearing, grubbing, filling backfilling, grading and associated compaction to achieve a uniform soil bearing capacity of 2500 PSF prior to delivery of the building units. In addition to the above, the site shall be uniformly level (+/- 3"). so a finished floor to grade elevation of a maximum 36" shall be present at all building entries and at the entry of the

step and ramp assembly. The site shall have adequate drainage to provide a positive flow of storm water away from the building. Also, storm water shall not pass under the building from any direction. The owner is also responsible for providing clear access to the site. Clear access to the site is defined as build pad being accessible for both the delivery truck and the building unit. Physical on site obstructions shall not prevent the delivery truck from being able to deliver the building unit to the pad site, detach from the building and depart the site.

OTHER EXCLUSIONS:

Surveys
Civil Design
Spills testing/Analysis
Site Development
Utility Extensions/Connections
Plumbing Manifold
Main Distribution Panel
Electrical Homeruns from Sub-Panels to MDP
Landscaping and Irrigation
Poured Concrete
Entry Assemblies
Canopies/walk way covers
Fire Alarm
Fire Sprinkler
Data/Comm
Science Lab Equipment/Stations
Computer Lab Equipment/Stations
Kitchen Equipment
Building Permits
TAS Compliance for Accessible Routes beyond the Buildings Footprint
Performance and Payment Bonds
Taxes