



KEYSTONE
PURCHASING
NETWORK

Specifications - One Classroom

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Blazer Industries (Aumsville, OR) Modern Building Systems (Aumsville, OR) Northwest Building Systems (Boise, ID)
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #NW-1
Description	(1) Classroom
Exterior Dimensions	28' x 32' (896 sq-ft nominal).
Classroom Dimensions	28' x 32' (896 sq-ft nominal).
Shipping Height	15' 2" or less
State Approvals	As Required
Regional Availability	Washington and Oregon Only
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Continuous single 2" x 8" microlam with 12" high moisture barrier installed on perimeter at floor rims and end joists.
Floor Framing	3/4" tongue and groove plywood over 2" x 8" (SPF#2) at 16" on center or as required by code.
Insulation	R-30 or as required by code.
Bottom Board	Class "A" woven polyethylene fabric.
Floor Live Load	50 PSF or as required by code.
Floor Covering - Classroom	On site by Others.
Cove Base - Classroom	On site by Others.
Walls	
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish	1/2" Vinylwrap tackboard.
Inside and Outside Corners	Vinylwrap wood battens.
Exterior Wall Finish	5/8" Duratemp as manufactured by Stimson or 7/16" "Smart Panel" as manufactured by LP. 5/8" type-x gyplap sheathing or as required by code. Vapor barrier.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Single top and bottom plates.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	1" x 4" "Prime Trim" at comers, vertical mate lines, windows and doors. 1" x 6" fascia.
Foundation Enclosure	On site by Others.
Foundation Vents	On site by Others.
Roof	
Roof Covering	"Premier" laminated, fiberglass shingles as manufactured by Pabco. 2":12" slope or as required by code.
Roof Framing	2" x 12" solid lumber rafters (SPF#2) at 24" on center with 7/16" OSB sheathing or as required. Snow load as required by code.
Roof Beams	Continuous 1 1/2" x 24" double microlam.
Roof Insulation	R-38 or as required by code.
Roof Ventilation	Continuous eave and ridge.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Ceiling	2" x 4" "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height.
Windows	
Windows	(1) 48" x 48" vinyl frame, horizontal sliding window with insect screens and low-E and double insulated glass. Solar bronze tint.
Window Accessories	(1) 48" x 48", 1" horizontal louver mini-blind.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown. Stub through exterior wall.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting - Classrooms	2' x 4' troffer with electronic ballast and (3) F32T8 energy efficient lamps.
Lighting - Exterior	(1) 13-watt fluorescent with vandal resistant cover and photocell.
Lighting - Exit and Emergency	As required by code.
Fire Alarm	(1) 2" x 4" pull station, (1) 4" x 4" interior horn/strobe and (1) 4" x 4" exterior horn/strobe with cover plate and 3/4" EMT with pull wire to above finished ceiling. Locations to be determined.
Occupancy Sensors	Provide infrared occupancy sensors as required by code. Include daylight zone control.
Receptacles	(4) 20-amp duplex and (1) 15-amp clock. Ivory with unbreakable plastic cover plates.
Exterior Receptacles	(2) 15-amp GFCI.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
HVAC	
Air Conditioning Unit	(2) Bard Model W***-H1-A-**-E-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(1) Honeywell VisionPro Model TH8320U, programmable, electronic.
Diffuser	Model FPD 24" x 24" lay-in, 4-way directional diffuser as manufactured by Hart and Cooley.
Supply Air	Round galvanized overhead, insulated flex duct with flex duct sound insulation sleeves and flow controls at supply plenum and wyes.
Return Air	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Building Options/Upgrades	
Floor Covering - Classroom	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Floor Covering - Classroom	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Floor Covering - Classroom	Field installed 12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base - Classroom	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Underlayment	1/4" Ultraply XL throughout.
Carbon Dioxide Sensor	(1) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(1) Bard CS2000A, or Marvair equal.

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Specifications - Two Classrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Blazer Industries (Aumsville, OR) Modern Building Systems (Aumsville, OR) Northwest Building Systems (Boise, ID)
Floor Plan/Drawing Description	Bidder to provide proposed floor plan with bid. Identify as #NW-2 (2) Classrooms
Exterior Dimensions	28' x 64' (1,792 sq-ft nominal).
Classroom Dimensions	28' x 32' (896 sq-ft nominal).
Shipping Height	15' 2" or less
State Approvals	As Required
Regional Availability	Washington and Oregon Only
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Continuous single 2" x 8" microlam with 12" high moisture barrier installed on perimeter at floor rims and end joists.
Floor Framing	3/4" tongue and groove plywood over 2" x 8" (SPF#2) at 16" on center or as required by code.
Insulation	R-30 or as required by code.
Bottom Board	Class "A" woven polyethylene fabric.
Floor Live Load	50 PSF or as required by code.
Floor Covering - Classroom	On site by Others.
Cove Base - Classroom	On site by Others.
Walls	
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish	1/2" Vinylwrap lackboard.
Inside and Outside Corners	Vinylwrap wood battens.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8' minimum nominal wall height. Double top plate and single bottom plate.
Columns	Wood end columns with steel post at 32" built into crosswall.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/8" Duraltemp as manufactured by Stimson or 7/16" "Smart Panel" as manufactured by LP. 5/8" type-x gyplap sheathing or as required by code. Vapor barrier.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Single top and bottom plates.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	1" x 4" "Prime Trim" at corners, vertical mate lines, windows and doors. 1" x 6" fascia.
Foundation Enclosure	On site by Others.
Foundation Vents	On site by Others.
Roof	
Roof Covering	"Premier" laminated, fiberglass shingles as manufactured by Pabco. 2":12" slope or as required by code.
Roof Framing	2" x 12" solid lumber rafters (SPF#2) at 24" on center with 7/16" OSB sheathing or as required. Snow load as required by code.
Mate Beams	Continuous 1 1/2" x 24" double microlam.
Roof Insulation	R-38 or as required by code.
Roof Ventilation	Continuous eave and ridge.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Ceiling	2" x 4" "Cortega #769A" accousical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height.
Windows	
Windows	(2) 48" x 48" vinyl frame, horizontal sliding window with insect screens and low-E, double insulated glass. Solar bronze tint.
Window Accessories	(2) 48" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown. Stub through exterior wall.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting - Classrooms	2' x 4' troffer with electronic ballast and (3) F32T8 energy efficient lamps.
Lighting - Exterior	(1) 13-watt flourescent with vandal resistant cover and photocell.
Lighting - Exit and Emergency	As required by code.
Fire Alarm	(2) 2" x 4" pull station, (2) 4" x 4" interior horn/strobes and (1) 4" x 4" exterior horn/strobe with cover plate and 3/4" EMT with pull wire to above finished ceiling. Locations to be determined.
Occupancy Sensors	Provide infrared occupancy sensors as required by code. Include daylight zone control.
Receptacles	(8) 20-amp duplex and (2) 15-amp clock. Ivory with unbreakable plastic cover plates.
Exterior Receptacles	(2) 15-amp GFCI.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
HVAC	
Air Conditioning Unit	(2) Bard Model W***-H1-A**-E-P-X-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(2) Honeywell VisionPro Model TH8320U, programmable, electronic.
Diffuser	Model FPD 24" x 24" lay-in, 4-way directional diffuser as manufactured by Hart and Cooley.
Supply Air	Round galvanized overhead, insulated flex duct with flex duct sound insulation sleeves and flow controls at supply plenum and wyes.
Return Air	Plenum wall. (2) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Building Options/Upgrades	
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed 12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base - Classrooms	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Underlayment	1/4" Ultraply XL throughout.
Carbon Dioxide Sensor	(2) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(2) Bard CS2000A, or Marvair equal.

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KEYSTONE
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Specifications - Two Classrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Blazer Industries (Aumsville, OR) Modern Building Systems (Aumsville, OR) Northwest Building Systems (Boise, ID)
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #NW-3
Description	(2) Classrooms
Exterior Dimensions	42' x 64' (2,688 sq-ft nominal)
Classroom Dimensions	42' x 32' (1,344 sq-ft nominal)
Shipping Height	15' 2" or less
State Approvals	As Required
Regional Availability	Washington and Oregon Only
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Continuous single 2" x 8" microlam with 12" high moisture barrier installed on perimeter at floor rims and end joists.
Floor Framing	3/4" tongue and groove plywood over 2" x 8" (SPF#2) at 16" on center or as required by code.
Insulation	R-30 or as required by code.
Bottom Board	Class "A" woven polyethylene fabric.
Floor Live Load	50 PSF or as required by code.
Floor Covering - Classroom	On site by Others.
Cove Base - Classroom	On site by Others.
Walls	
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish	1/2" Vinylwrap lackboard.
Inside and Outside Corners	Vinylwrap wood battens.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8' minimum nominal wall height. Double top plate and single bottom plate.
Columns	Wood end columns with steel post at 32" built into crosswall.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/8" Duraltemp as manufactured by Stimson or 7/16" "Smart Panel" as manufactured by L.P. 5/8" type-x gyplap sheathing or as required by code. Vapor barrier.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Single top and bottom plates.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	1" x 4" "Prime Trim" at corners, vertical mate lines, windows and doors. 1" x 6" fascia.
Foundation Enclosure	On site by Others.
Foundation Vents	On site by Others.
Roof	
Roof Covering	"Premier" laminated, fiberglass shingles as manufactured by Pabco. 2", 12" slope or as required by code.
Roof Framing	2" x 12" solid lumber rafters (SPF#2) at 24" on center with 7/16" OSB sheathing or as required. Snow load as required by code.
Roof Beams	Continuous 1 1/2" x 24" double microlam.
Roof Insulation	R-38 or as required by code.
Roof Ventilation	Continuous eave and ridge.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Ceiling	2' x 4" "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height.
Windows	
Windows	(8) 48" x 48" vinyl frame, horizontal sliding window with insect screens and low-E, double insulated glass. Solar bronze tint.
Window Accessories	(8) 48" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown. Stub through exterior wall.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting - Classrooms	2' x 4' troffer with electronic ballast and (3) F32T8 energy efficient lamps.
Lighting - Exterior	(3) 13-watt fluorescent with vandal resistant cover and photocell.
Lighting - Exit and Emergency	As required by code.
Fire Alarm	(4) 2" x 4" pull station, (2) 4" x 4" interior horn/strobes and (1) 4" x 4" exterior horn/strobe with cover plate and 3/4" EMT with pull wire to above finished ceiling. Locations to be determined.
Occupancy Sensors	Provide infrared occupancy sensors as required by code. Include daylight zone control.
Receptacles	(12) 20-amp duplex and (2) 15-amp clock. Ivory with unbreakable plastic cover plates.
Exterior Receptacles	(2) 15-amp GFCI.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
HVAC	
Air Conditioning Unit	(2) Bard Model W***-H1-A-**-E-P-X-X-R electric heat pump unit, or Marvaire equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(2) Honeywell VisionPro Model TH8320U, programmable, electronic.
Diffuser	Model FPD 24" x 24" lay-in, 4-way directional diffuser as manufactured by Hart and Cooley.
Supply Air	Round galvanized overhead, insulated flex duct with flex duct sound insulation sleeves and flow controls at supply plenum and wyes.
Return Air	Plenum wall. (2) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Building Options/Upgrades	
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed 12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base - Classrooms	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Underlayment	1/4" Ultraply XL throughout.
Carbon Dioxide Sensor	(2) Bard 8403-056 CO2 sensor, or Marvaire equal, with vent demand relay.
Energy Management Controller	(2) Bard CS2000A, or Marvaire equal.

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Specifications - Two Classrooms, Restrooms and Kitchen (Daycare)

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Blazer Industries (Aumsville, OR) Modern Building Systems (Aumsville, OR) Northwest Building Systems (Boise, ID)
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #NW-5
Description	(2) Classrooms with Restrooms and Kitchen
Exterior Dimensions	42' x 64' (2 688 sq-ft nominal)
Classroom Dimensions	42' x 32' (1 218 sq-ft nominal)
Shipping Height	15' 2" or less
State Approvals	As Required
Regional Availability	Washington and Oregon Only
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Continuous single 2" x 8" microlam with 12" high moisture barrier installed on perimeter at floor rims and end joists.
Floor Framing	3/4" tongue and groove plywood over 2" x 8" (SPF#2) at 16" on center or as required by code.
Underlayment - Restrooms and Kitchen	1/4" Ultraply XL.
Insulation	R-30 or as required by code.
Bottom Board	Class "A" woven polyethylene fabric.
Floor Live Load	50 PSF or as required by code.
Floor Covering - Restrooms	"Diamond" #9230 sheet vinyl as manufactured by Congoleum.
Floor Covering - Kitchen	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base - Restrooms and Kitchen	6" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Floor Covering - Classroom	On site by Others.
Cove Base - Classroom	On site by Others.
Walls	
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish	1/2" Vinylwrap jackboard.
Inside and Outside Corners	Vinylwrap wood battens.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8' minimum nominal wall height. Double top plate and single bottom plate.
Columns	Wood end columns with steel post at 32' built into crosswall.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/8" Duraltemp as manufactured by Stimson or 7/16" "Smart Panel" as manufactured by LP. 5/8" type-x gyplap sheathing or as required by code. Vapor barrier.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Single top and bottom plates.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	1" x 4" "Prime Trim" at corners, vertical mate lines, windows and doors. 1" x 6" fascia.
Foundation Enclosure	On site by Others.
Foundation Vents	On site by Others.
Roof	
Roof Covering	"Premier" laminated, fiberglass shingles as manufactured by Pabco. 2".12" slope or as required by code.
Roof Framing	2" x 12" solid lumber rafters (SPF#2) at 24" on center with 7/16" OSB sheathing or as required. Snow load as required by code.
Roof Beams	Continuous 1 1/2" x 24" double microlam.
Roof Insulation	R-38 or as required by code.
Roof Ventilation	Continuous eave and ridge.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Ceiling	2" x 4" "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height.
Windows	
Windows	(4) 48" x 48" vinyl frame, horizontal sliding window with insect screens and low-E, double insulated glass. Solar bronze lint.
Window Accessories	(4) 48" x 48", 1" horizontal louver mini-blind.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown. Stub through exterior wall.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting - Classrooms	2" x 4" troffer with electronic ballast and (3) F32T8 energy efficient lamps.
Lighting - Exterior	(3) 13-watt fluorescent with vandal resistant cover and photocell.
Lighting - Exit and Emergency	As required by code.
Fire Alarm	(4) 2" x 4" pull station, (5) 4" x 4" interior horn/strobes and (1) 4" x 4" exterior horn/strobe with cover plate and 3/4" EMT with pull wire to above finished ceiling. Locations to be determined.
Switches	(2) single pole and (10) three-way. Ivory with unbreakable plastic cover plates.
Range Hood	Wire for future installation by Others.
Occupancy Sensors	Provide infrared occupancy sensors as required by code. Include daylight zone control.
Exterior Receptacles	(2) 15-amp GFCI.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
HVAC	
Air Conditioning Unit	(2) Bard Model W***-H1-A-**-E-P-X-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(2) Honeywell VisionPro Model TH8320U, programmable, electronic.
Diffuser	Model FPD 24" x 24" lay-in, 4-way directional diffuser as manufactured by Hart and Cooley.
Exhaust Fan	(2) 110 CFM and (1) 150 CFM ceiling mounted with light.
Supply Air	Round galvanized overhead, insulated flex duct with flex duct sound insulation sleeves and flow controls at supply plenum and wyes.
Return Air	Plenum wall. (2) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Plumbing	
Piping	Type "L" copper and aquapex supply. Schedule 40 PVC or ABS sanitary or as required by code.
Water Closet	(2) Model 21-318 vitreous china with elongated bowl and pressure-assisted flushometer tank as manufactured by Gerber. Heavy duty Model 95SSC plastic seat as manufactured by Oisenite. ADA compliant. Stainless steel grab bars.
Water Closet - Child	(1) Model 2315.016 vitreous china with round bowl as manufactured by American Standard. Heavy duty plastic seat as manufactured by Oisenite.
Lavatory	(2) Model 12-314 17" x 19", vitreous china wall-hung as manufactured by Gerber. ADA compliant.

Lavatory Faucet	(2) Model 2385.404 as manufactured by American Standard.
Water Heater	(1) Model PEP10-1 10-gallon, electric as manufactured by Ruud.
Mirror	(2) 18" x 36" with stainless steel frame.
Kitchen Sink	(1) Model D-233193, 33" x 19" stainless with double compartment as manufactured by Dayton.
Kitchen Sink Faucet	(1) Model 4175.500 as manufactured by American Standard.
Daycare Room Sink	(2) Model D-115152, 15" x 15" stainless as manufactured by Dayton.
Daycare Room Faucet	(2) Model 7500.170.002 as manufactured by American Standard.
Floor Drain	(1) Model 2240-PV2-NT as manufactured by Zurn with Model P-2 trap primer as manufactured by Precision. Set in webcrete.
Toilet Paper Dispensers	(3) single roll stainless steel.
Restroom Accessories	Soap and paper towel dispensers by Others.
Furnishings	
Cabinet - Kitchen	24" x 126" base cabinet as manufactured by Lemons. Includes 25 1/2" x 126" x 1/16" HPLAM countertop as manufactured by Wilsonart.
Cabinet - Classrooms	24" x 48" base cabinet as manufactured by Lemons. Includes 25 1/2" x 48" x 1/16" HPLAM countertop at 24" AFF as manufactured by Wilsonart.
Water Heater Enclosure	HPLAM with removeable face frame at location shown on drawing.
Building Options/Upgrades	
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed 12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base - Classrooms	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Cove Base - Restrooms and	6" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Underlayment - Classrooms	1/4" Ultraply XL throughout.
Carbon Dioxide Sensor	(2) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(2) Bard CS2000A, or Marvair equal.

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Specifications - Two Classrooms, Restrooms and Kitchen (Daycare)

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Blazer Industries (Aumsville, OR) Modern Building Systems (Aumsville, OR) Northwest Building Systems (Boise, ID)
Floor Plan/Drawing Description	Bidder to provide proposed floor plan with bid. Identify as #NW-5 (2) Classrooms with Restrooms and Kitchen
Exterior Dimensions	42' x 64' (2,888 sq-ft nominal)
Classroom Dimensions	42' x 32' (1,218 sq-ft nominal)
Shipping Height	15' 2" or less
State Approvals	As Required
Regional Availability	Washington and Oregon Only
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Continuous single 2" x 8" microlam with 12" high moisture barrier installed on perimeter at floor rims and end joists.
Floor Framing	3/4" tongue and groove plywood over 2" x 8" (SPF#2) at 16" on center or as required by code.
Underlayment - Restrooms and Kitchen	1/4" Ultraply XL.
Insulation	R-30 or as required by code.
Bottom Board	Class "A" woven polyethylene fabric.
Floor Live Load	50 PSF or as required by code.
Floor Covering - Restrooms	"Diamond" #9230 sheet vinyl as manufactured by Congoleum.
Floor Covering - Kitchen	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base - Restrooms and Kitchen	6" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Floor Covering - Classroom	On site by Others.
Cove Base - Classroom	On site by Others.
Walls	
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish	1/2" Vinylwrap tackboard.
Inside and Outside Corners	Vinylwrap wood battens.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8' minimum nominal wall height. Double top plate and single bottom plate.
Columns	Wood end columns with steel post at 32' built into crosswall.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/8" Duraltemp as manufactured by Stimson or 7/16" "Smart Panel" as manufactured by LP. 5/8" type-x gyplap sheathing or as required by code. Vapor barrier.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Single top and bottom plates.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	1" x 4" "Prime Trim" at corners, vertical mate lines, windows and doors. 1" x 6" fascia.
Foundation Enclosure	On site by Others.
Foundation Vents	On site by Others.
Roof	
Roof Covering	"Premier" laminated, fiberglass shingles as manufactured by Pabco. 2".12" slope or as required by code.
Roof Framing	2" x 12" solid lumber rafters (SPF#2) at 24" on center with 7/16" OSB sheathing or as required. Snow load as required by code.
Roof Beams	Continuous 1 1/2" x 24" double microlam.
Roof Insulation	R-38 or as required by code.
Roof Ventilation	Continuous eave and ridge.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Ceiling	2" x 4" "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height.
Windows	
Windows	(4) 48" x 48" vinyl frame, horizontal sliding window with insect screens and low-E, double insulated glass. Solar bronze tint.
Window Accessories	(4) 48" x 48", 1" horizontal louver mini-blind.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown. Stub through exterior wall.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting - Classrooms	2' x 4' troffer with electronic ballast and (3) F32T8 energy efficient lamps.
Lighting - Exterior	(3) 13-watt fluorescent with vandal resistant cover and photocell.
Lighting - Exit and Emergency	As required by code.
Fire Alarm	(4) 2" x 4" pull station, (5) 4" x 4" interior horn/strobes and (1) 4" x 4" exterior horn/strobe with cover plate and 3/4" EMT with pull wire to above finished ceiling. Locations to be determined.
Switches	(2) single pole and (10) three-way. Ivory with unbreakable plastic cover plates.
Range Hood	Wire for future installation by Others.
Occupancy Sensors	Provide infrared occupancy sensors as required by code. Include daylight zone control.
Exterior Receptacles	(2) 15-amp GFCI.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
HVAC	
Air Conditioning Unit	(2) Bard Model W***-H1-A**-E-P-X-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(2) Honeywell VisionPro Model TH8320U, programmable, electronic.
Diffuser	Model FPD 24" x 24" lay-in, 4-way directional diffuser as manufactured by Hart and Cooley.
Exhaust Fan	(2) 110 CFM and (1) 150 CFM ceiling mounted with light.
Supply Air	Round galvanized overhead, insulated flex duct with flex duct sound insulation sleeves and flow controls at supply plenum and wyes.
Return Air	Plenum wall. (2) Model 900 FG, interior 20" x 30" return air filler grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Plumbing	
Piping	Type "L" copper and aquapex supply. Schedule 40 PVC or ABS sanitary or as required by code.
Water Closet	(2) Model 21-318 vitreous china with elongated bowl and pressure-assisted flushometer tank as manufactured by Gerber. Heavy duty Model 95SSC plastic seat as manufactured by Olsentite. ADA compliant. Stainless steel grab bars.
Water Closet - Child	(1) Model 2315.016 vitreous china with round bowl as manufactured by American Standard. Heavy duty plastic seat as manufactured by Olsentite.
Lavatory	(2) Model 12-314 17" x 19", vitreous china wall-hung as manufactured by Gerber. ADA compliant.

Lavatory Faucet	(2) Model 2385.404 as manufactured by American Standard.
Water Heater	(1) Model PEP10-1 10-gallon, electric as manufactured by Ruud.
Mirror	(2) 18" x 36" with stainless steel frame.
Kitchen Sink	(1) Model D-233193, 33" x 19" stainless with double compartment as manufactured by Dayton.
Kitchen Sink Faucet	(1) Model 4175.500 as manufactured by American Standard.
Daycare Room Sink	(2) Model D-115152, 15" x 15" stainless as manufactured by Dayton.
Daycare Room Faucet	(2) Model 7500.170.002 as manufactured by American Standard.
Floor Drain	(1) Model 2240-PV2-NT as manufactured by Zurn with Model P-2 trap primer as manufactured by Precision. Set in webcrete.
Toilet Paper Dispensers	(3) single roll stainless steel.
Restroom Accessories	Soap and paper towel dispensers by Others.
Furnishings	
Cabinet - Kitchen	24" x 126" base cabinet as manufactured by Lemons. Includes 25 1/2" x 126" x 1/16" HPLAM countertop as manufactured by Wilsonart.
Cabinet - Classrooms	24" x 48" base cabinet as manufactured by Lemons. Includes 25 1/2" x 48" x 1/16" HPLAM countertop at 24" AFF as manufactured by Wilsonart.
Water Heater Enclosure	HPLAM with removeable face frame at location shown on drawing.
Building Options/Upgrades	
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed "Caplivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Floor Covering - Classrooms	Field installed 12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base - Classrooms	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Cove Base - Restrooms and	6" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Underlayment - Classrooms	1/4" Ultraply XL throughout.
Carbon Dioxide Sensor	(2) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(2) Bard CS2000A, or Marvair equal.

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KEYSTONE
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Specifications - One Classroom (DSA)

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Phoenix Modular (Glendale, AZ) Silver Creek Industries (Parris, CA) Walden Structures (Mentone, CA)
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #CA-1
Description	(1) Classroom
Exterior Dimensions	24' x 40' (960 sq-ft nominal)
Classroom Dimensions	24' x 40' (960 sq-ft nominal)
Shipping Height	14' 6" or less
State Approvals	California DSA.
Regional Availability	State of California Only.
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Rigid steel frame or as required by code.
Floor Framing	As required by code.
Insulation	Kraft-faced R-22 or as required by code.
Bottom Board	Plastic, roll type or as required by code.
Floor Live Load	40 PSF or as required by code.
Floor Covering - Classroom	"Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Cove Base - Classroom	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Walls	
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish	1/2" Vinylwrap tackboard.
Inside and Outside Corners	Vinylwrap wood battens.
Exterior Wall Finish	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mite lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Foundation Enclosure	5/16" Hardipanel® to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantify as required by code.
Roof	
Roof Membrane	.045 mil white EPDM Rubber or TPO with 10-year warranty. 1/4".12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Overhang	5' at front and 2' at rear.
Roof Ventilation	As required by code.
Roof Drainage	26-gauge gutters with downspouts to grade. Field installed.
Ceiling	2' x 4' "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Secure as required by code.
Windows	
Windows	(1) 96" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass.
Window Accessories	(1) 96" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown.
Electrical Raceway	As required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Exterior	(1) 75-watt metal halide light and (1) remote head with battery back-up.
Lighting - Exit and Emergency	As required by code.
Classroom - Voice, Data, CATV, Fire Alarm, PA and Security	(1) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor. Locations to be determined.
Switches	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
Voice	System labor and material by Others.
Data	System labor and material by Others.
CATV	System labor and material by Others.
HVAC	
Air Conditioning Unit	(1) Electric heat pump units as manufactured by Bard or Marvair. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(1) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Supply Air	Factory standard fiberglass or as required by code.
Return Air	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Furnishings	
Markerboard	(1) Factory standard, 4' x 16' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Building Options/Upgrades	
Floor Covering - Classroom	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Carbon Dioxide Sensor	(1) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(1) Bard CS2000A, or Marvair equal.

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Specifications - One Classroom with Restroom (DSA)

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Phoenix Modular (Glendale, AZ) Silver Creek Industries (Perris, CA) Walden Structures (Mentone, CA)
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #CA-2
Description	(1) Classroom with restroom
Exterior Dimensions	24' x 40' (960 sq-ft nominal)
Classroom Dimensions	24' x 40' (910 sq-ft nominal)
Shipping Height	14' 6" or less
State Approvals	California DSA
Regional Availability	State of California Only
Construction Type	V-B
Occupancy Classification	E - Education
Floors	
Frame Type	Rigid steel frame or as required by code.
Floor Framing	As required by code.
Insulation	Kraft-faced R-22 or as required by code
Bottom Board	Plastic, roll type or as required by code.
Floor Live Load	40 PSF or as required by code.
Floor Covering - Classroom	*Associate* 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Floor Covering - Restroom	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Cove Base - Classroom	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Cove Base - Restroom	6" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Walls	
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish	1/2" Vinylwrap backboard.
Inside and Outside Corners	Vinylwrap wood battens.
Exterior Wall Finish	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Foundation Enclosure	5/16" Hardipanel® to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Roof	
Roof Membrane	.045 mil white EPDM Rubber or TPO with 10-year warranty. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Overhang	5' at front and 2' at rear.
Roof Ventilation	As required by code.
Roof Drainage	26-gauge gutters with downspouts to grade. Field installed.
Ceiling	2' x 4" "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Secure as required by code.
Windows	
Windows	(1) 96" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass.
Window Accessories	(1) 96" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Interior Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown.
Electrical Raceway	As required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Exterior	(1) 75-watt metal halide light and (1) remote head with battery back-up.
Lighting - Exit and Emergency	As required by code.
Classroom - Voice, Data, CATV, Fire Alarm, PA and Security	(1) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor. Locations to be determined.
Switches	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
Voice	System labor and material by Others.
Data	System labor and material by Others.
CATV	System labor and material by Others.
HVAC	
Air Conditioning Unit	(1) Electric heat pump units as manufactured by Bard or Marvair. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(1) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Supply Air	Factory standard fiberglass or as required by code.
Return Air	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Plumbing	
Piping	Type "L" copper supply. Schedule 40 PVC or ABS sanitary or as required by code.
Water Closet	(1) Cadet Model 2377, 100 vitreous china with elongated bowl and pressure-assisted flushometer tank as manufactured by American Standard. Heavy duty Model 95SSC plastic seat as manufactured by Olsenite. ADA compliant. Stainless steel grab bars.
Lavatory	(1) Comrade Model 18" x 20", vitreous china wall-hung as manufactured by American Standard. Factory standard. ADA compliant.
Lavatory Faucet	(1) Model 802-V865CP as manufactured by Chicago Faucet.
Water Heater	(1) Model SP3512 "Single Point" electric as manufactured by Eemax.
Mirror	(1) 18" x 36" stainless with stainless steel frame.
Restroom Accessories	Soap, toilet paper, sanitary napkin and paper towel dispensers by Others.
Furnishings	
Markerboard	(1) Factory standard, 4' x 16" porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Building Optional/Upgrades	
Floor Covering - Classroom	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.

Carbon Dioxide Sensor	(1) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(1) Bard CS2000A, or Marvair equal.

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Specifications - One Classroom (HCD)

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Phoenix Modular (Glendale, AZ) Silver Creek Industries (Parris, CA) Walden Structures (Mentone, CA)
Floor Plan/Drawing Description	Bidder to provide proposed floor plan with bid. Identify as #CA-3 (1) Classroom
Exterior Dimensions	24' x 40' (960 sq-ft nominal).
Classroom Dimensions	24' x 40' (960 sq-ft nominal).
Shipping Height	14' 6" or less
State Approvals	California HCD.
Regional Availability	State of California Only.
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Perimeter I-beam with cross members at 48" on center or as required by code.
Floor Framing	As required by code.
Insulation	Kraft-faced R-22 or as required by code
Bottom Board	Plastic, roll type or as required by code.
Floor Live Load	40 PSF or as required by code.
Floor Covering - Classroom	"Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Cove Base - Classroom	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Exterior Wall Finish	5/8" Duratemp as manufactured by Stimson or 7/16" "Smart Panel" as manufactured by LP. 5/8" type-x gypplac sheathing or as required by code. Vapor barrier.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Exterior Wall Finish	5/8" Duratemp as manufactured by Stimson to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Roof	
Roof Membrane	.045 mil white EPDM Rubber or TPO with 10-year warranty. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Roof Ventilation	As required by code.
Roof Drainage	J-rail mini-gutter termination strip.
Ceiling	2' x 4' "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Secure as required by code.
Windows	
Windows	(1) 72" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass.
Window Accessories	(1) 72" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown.
Electrical Raceway	As required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Exterior	(1) 75-watt metal halide light and (1) remote head with battery back-up.
Lighting - Exit and Emergency	As required by code.
Classroom - Voice, Data, CATV, Fire Alarm, PA and Security	(1) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor. Locations to be determined.
Switches and Receptacles	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
Voice	System labor and material by Others.
Data	System labor and material by Others.
CATV	System labor and material by Others.
HVAC	
Air Conditioning Unit	(1) Electric heat pump units as manufactured by Bard or Marvair. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(1) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Supply Air	Factory standard fiberglass or as required by code.
Return Air	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Building Options/Upgrades	
Floor Covering - Classroom	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish and Corners	1/2" Vinylwrap tackboard with Vinylwrap wood battens.
Roof Drainage	26-gauge gutters with downspouts to grade. Field installed.
Carbon Dioxide Sensor	(1) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(1) Bard CS2000A, or Marvair equal.

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KEYSTONE
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Specifications - Two Classroom (HCD)

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	Phoenix Modular (Glendale, AZ) Silver Creek Industries (Parris, CA) Walden Structures (Mentone, CA)
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #CA-4
Description	(2) Classrooms with interior connecting door.
Exterior Dimensions	24' x 60' (1,440 sq-ft nominal).
Classroom Dimensions	24' x 30' (720 sq-ft nominal).
Shipping Height	14' 6" or less
State Approvals	California HCD.
Regional Availability	State of California Only.
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Perimeter I-beam with cross members at 48" on center or as required by code.
Floor Framing	As required by code.
Insulation	Kraft-faced R-22 or as required by code.
Bottom Board	Plastic, roll type or as required by code.
Floor Live Load	40 PSF or as required by code.
Floor Covering - Classroom	"Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Cove Base - Classroom	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8' minimum nominal wall height. Double top plate and single bottom plate.
Exterior Wall Finish	5/8" Duratemp as manufactured by Stimson or 7/16" "Smart Panel" as manufactured by L.P. 5/8" type-x gyplap sheathing or as required by code. Vapor barrier.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Exterior Wall Finish	5/8" Duratemp as manufactured by Stimson to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Roof	
Roof Membrane	.045 mil white EPDM Rubber or TPO with 10-year warranty. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Roof Ventilation	As required by code.
Roof Drainage	J-rail mini-gutter termination strip.
Ceiling	2' x 4" "Cortega #769A" acoustical ceiling tile as manufactured by Armstrong, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Secure as required by code.
Windows	
Windows	(2) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass.
Window Accessories	(2) 48" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Door	See attached door schedule.
Interior Door	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/240 VAC, single phase, 60 Hz panel sized as required by code. Location as shown.
Electrical Raceway	As required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Exterior	(2) 75-watt metal halide light and (2) remote head with battery back-up.
Lighting - Exit and Emergency	As required by code.
Classroom - Voice, Data, CATV, Fire Alarm, PA and Security	(1) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor per classroom. Locations to be determined.
Switches and Receptacles	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
Voice	System labor and material by Others.
Data	System labor and material by Others.
CATV	System labor and material by Others.
HVAC	
Air Conditioning Unit	(2) Electric heat pump units as manufactured by Bard or Marvail. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(2) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvail equal.
Supply Air	Factory standard fiberglass or as required by code.
Return Air	Plenum wall. (2) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker, or Bard equal. Located at 12" AFF.
Building Options/Upgrades	
Floor Covering - Classroom	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw.
Interior Wall Covering	5/8" Type-x gypsum.
Interior Wall Finish and Corners	1/2" Vinylwrap tackboard with Vinylwrap wood battens.
Roof Drainage	26-gauge gutters with downspouts to grade. Field installed.
Carbon Dioxide Sensor	(2) Bard 8403-056 CO2 sensor, or Marvail equal, with vent demand relay.
Energy Management Controller	(2) Bard CS2000A, or Marvail equal.

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