



Specifications - One Classroom

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #C-2
Description	(1) Classroom
Exterior Dimensions	24' x 36' (864 sq-ft nominal).
Classroom Dimensions	24' x 36' (864 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Insulation	Kraft-faced R-22 or as required by code
Bottom Board	Plastic, roll type
Floor Live Load	40 PSF or as required by code.
Floor Covering - Classroom	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
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered 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.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 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 Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'0" nominal ceiling height.
Windows	
Windows	(3) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass.
Window Accessories	(3) 48" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Doors	See attached door schedule.
Emergency Exit Doors	See attached door schedule.
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panel sized as required by code. Location as shown.
Electrical Raceway	90°C Romex or as required by code.
Lighting - Classrooms	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) Bard Model W***-A1-A**-P-P-X-X-X-X electric heat/cool 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) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Diffuser	Factory standard directional diffusers.
Supply and Return Air Duct	Factory standard fiberglass or as required by code.
Return Air Plenum	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	
Coat Hook Assembly	(1) 12" deep x 10' wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Fire Extinguisher	(1) 5# ABC.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Classroom	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout. Recommended for use under all vinyl flooring surfaces.
Ceiling	2' x 4' "Baroque" acoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.

AirConditioning Unit	(1) Bard Model W***-H1-A-**-V-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
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.
Coat Hook Assembly	(1) 12" deep x 10' wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Markerboard	(1) Factory standard, 4' x 12' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Tackboard	(2) Factory standard, 4' x 4' cork boards with aluminum frame.
Storage Closet	(1) 3' x 5' with wire shelving at 72" AFF.

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Specifications - One Classroom with Restroom

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #C-1
Description	(1) Classroom with Restroom
Exterior Dimensions	24' x 38' (912 sq-ft nominal)
Classroom Dimensions	24' x 38' (912 sq-ft nominal)
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Insulation	Kraft-faced R-22 or as required by code
Bottom Board	Plastic, roll type
Floor Live Load	40 PSF or as required by code.
Floor Covering - Classroom	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
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	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Interior Wall Finish - Restroom	.030" FRP over APA-rated substrate. Full wall height.
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.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
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.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 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 Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'0" nominal ceiling height.
Windows	
Windows	(3) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass.
Window Accessories	(3) 48" x 48", 1" horizontal louver mini-blinds.
Doors and Door Hardware	
Main Entry Doors	See attached door schedule.
Emergency Exit Doors	See attached door schedule.
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panel sized as required by code. Location as shown.
Electrical Raceway	90°C Romex or as required by code.
Lighting - Classrooms	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) Bard Model W***-A1-A-**-P-P-X-X-X-X electric heat/cool unit, or Marvail 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) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvail equal.
Diffuser	Factory standard directional diffusers.
Exhaust Fan	(1) Model 676 110 CFM ceiling mounted as manufactured by Broan. Wire to light switch.
Supply and Return Air Duct	Factory standard fiberglass or as required by code.
Return Air Plenum	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 Olsentite. ADA compliant. Stainless steel grab bars.
Lavatory	(1) Comrade Model 18" x 20", vitreous china wall-hung as manufactured by American Standard. ADA compliant.
Lavatory Faucet	(1) Model 802-V665CP as manufactured by Chicago Faucet.
Water Heater	(1) Model SP3512 "Single Point" electric as manufactured by Eemax.
Mirror	(1) 18" x 36" with stainless steel frame.
Restroom Accessories	Soap, toilet paper, sanitary napkin and paper towel dispensers by Others.
Furnishings	
Fire Extinguisher	(1) 5# ABC.
Building Options/Upgrades	

Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Classroom	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout. Recommended for use under all vinyl flooring surfaces.
Ceiling	2' x 4' "Baroque" accoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
AirConditioning Unit	(1) Bard Model W***-H1-A-**-V-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
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.
Coat Hook Assembly	(1) 12" deep x 10" wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Markerboard	(1) Factory standard, 4' x 12' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Tackboard	(2) Factory standard, 4' x 4' cork boards with aluminum frame.
Storage Closet	(1) 3' x 5' with wire shelving at 72" AFF.

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KEYSTONE
PURCHASING
NETWORK

Specifications - Two Classrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #C-4
Description	(2) Classrooms
Exterior Dimensions	28' x 60' (1,680 sq-ft nominal).
Classroom Dimensions	28' x 30' (840 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Insulation	Kraft-faced R-22 or as required by code
Bottom Board	Plastic, roll type
Floor Live Load	40 PSF or as required by code.
Floor Covering - Classrooms	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
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
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.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
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.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 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 Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'0" nominal ceiling height.
Windows	
Windows	(3) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass per classroom.
Window Accessories	(3) 1" Ascot, horizontal louver mini-blinds per classroom.
Doors and Door Hardware	
Main Entry Doors	See attached door schedule.
Emergency Exit Doors	See attached door schedule.
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex or as required by code.
Lighting - Classrooms	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 per exit door.
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) Bard Model W***-A1-A-**-P-P-X-X-X-X electric heat/cool 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) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Diffuser	Factory standard directional diffusers.
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.
Furnishings	
Fire Extinguisher	(1) 5# ABC per classroom.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout. Recommended for use under all vinyl flooring surfaces.
Ceiling	2' x 4' "Baroque" acoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™" 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
AirConditioning Unit	(2) Bard Model W***-H1-A-**-V-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.

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.
Coat Hook Assembly	(2) 12" deep x 10' wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Markerboard	(2) Factory standard, 4' x 12' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Tackboard	(4) Factory standard, 4' x 4' cork boards with aluminum frame.
Storage Closet	(2) 3' x 5' with wire shelving at 72" AFF.

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Specifications - Two Classrooms with Restrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #C-3
Description	(2) Classrooms with Restrooms
Exterior Dimensions	28' x 70' (1,960 sq-ft nominal).
Classroom Dimensions	28' x 35' (875 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Insulation	Kraft-faced R-22 or as required by code
Bottom Board	Plastic, roll type
Floor Live Load	40 PSF and 100 PSF vestibule or as required by code.
Floor Covering - Classrooms	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Floor Covering - Restrooms	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Floor Covering - Vestibule	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Cove Base - Classrooms and Vestibule	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe , or equal
Cove Base - Restrooms	6" 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. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Interior Wall Finish - Restrooms	.030" FRP over APA-rated substrate. Full wall height.
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.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
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.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Vestibule	1-hour rated walls and ceilings or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 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 Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'0" nominal ceiling height.
Windows	
Windows	(3) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass per classroom.
Window Accessories	(3) 48" x 48", 1" horizontal louver mini-blinds per classroom.
Doors and Door Hardware	
Main Entry Doors	See attached door schedule.
Emergency Exit Doors	See attached door schedule.
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex or as required by code.
Lighting - Classrooms	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Vestibule	Electronic ballast with energy efficient lamps and infrared occupancy sensors. Battery backup.
Lighting - Exterior	(1) 75-watt metal halide light and (1) remote head with battery back-up per exit door.
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) Bard Model W***-A1-A-**-P-P-X-X-X-X electric heat/cool 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) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Diffuser	Factory standard directional diffusers.
Exhaust Fan	(2) Model 676 110 CFM ceiling mounted as manufactured by Broan. Wire to light switch.
Supply and Return Air Duct	Fiberglass. Galvanized as may be required by code in one-hour rated areas.
Return Air Plenum	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 supply. Schedule 40 PVC or ABS sanitary or as required by code.
Water Closet	(2) 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 Olsentite. ADA compliant. Stainless steel grab bars.
Lavatory	(2) Comrade Model 18" x 20", vitreous china wall-hung as manufactured by American Standard.Factory standard. ADA compliant.
Lavatory Faucet	(2) Model 802-V665CP as manufactured by Chicago Faucet.
Water Heater	(2) Model SP3512 "Single Point" electric as manufactured by Eemax.
Mirror	(2) 18" x 36" stainless with stainless steel frame.

Restroom Accessories	Soap, toilet paper, sanitary napkin and paper towel dispensers by Others.
Furnishings	
Fire Extinguisher	(1) 5# ABC per classroom.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout. Recommended for use under all vinyl flooring surfaces.
Ceiling	2' x 4' "Baroque" accoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8' nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
AirConditioning Unit	(2) Bard Model W***-H1-A-**-V-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
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.
Coat Hook Assembly	(2) 12" deep x 10' wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Markerboard	(2) Factory standard, 4' x 12' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Tackboard	(4) Factory standard, 4' x 4' cork boards with aluminum frame.
Storage Closet	(2) 3' x 5' with wire shelving at 72" AFF.

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KEYSTONE
PURCHASING
NETWORK

Specifications - Four Classrooms with Restrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #C-5
Description	(4) Classroom with Restrooms, Janitor Closet and Tech Closet
Exterior Dimensions	84' x 70' (5,880 sq-ft nominal).
Classroom Dimensions	42' x 31' (1,200 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outtrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Underlayment	Factory-installed, 1/4" or 1/2" hardbacker throughout.
Insulation	Kraft-faced R-22 or as required by code
Bottom Board	Plastic, roll type
Floor Live Load	50 PSF in classrooms, restrooms and janitor and tech closets and 100 PSF in corridor or as required by code.
Floor Covering - Classrooms and Corridor	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Floor Covering - Restrooms	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Floor Covering - Corridor Entry	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Floor Covering - Janitor and Tech Closets	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Cove Base - Classrooms, Corridor and Tech Closet	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe , or equal
Cove Base - Restrooms and Janitor Closet	6" 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. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Outside Corners - Corridor Only	Model 169V 2" x 2" x 8' 6" vinyl with Model 168A metal track as manufactured by InPro.
Interior Wall Finish - Restrooms and Janitor Closet	.030" FRP over APA-rated substrate. Full wall height.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8'6" minimum nominal wall height. Double top plate and single bottom plate.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
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. 8'6" minimum nominal wall height.
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.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Corridor	1-hour rated walls and ceilings or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 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 Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'6" nominal ceiling height.
Windows	
Windows	(4) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass per classroom.
Window Accessories	(4) 48" x 48", 1" horizontal louver mini-blinds per classroom.
Doors and Door Hardware	
Main Entry Doors	See attached door schedule.
Emergency Exit Doors	See attached door schedule.
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Corridor	Electronic ballast with energy efficient lamps and infrared occupancy sensors. Battery backup.
Lighting - Exterior	(1) 100-watt metal halide light and (1) remote head with battery back-up per exit door.
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	(4) Bard Model W***-A1-A**-P-P-X-X-X-X electric heat/cool unit, or Marvail 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	(4) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvail equal.
Diffuser	Factory standard directional diffusers.

Smoke/Fire Dampers	Model D-315WB fire or Model D-502 smoke/fire as manufactured by Leader Industries, or equal. Provide as required by code
Supply and Return Air Duct	Fiberglass. Galvanized as may be required by code in one-hour rated areas.
Return Air Plenum	Plenum wall. (4) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker or Bard equal. Located at 12" AFF.
Exhaust Fan	(4) Model 676 110 CFM ceiling mounted as manufactured by Broan. Wire to light switch.
Plumbing	
Piping	Type "L" copper supply. Schedule 40 PVC or ABS sanitary or as required by code.
Water Cooler	(4) Model ESWA8 stainless steel as manufactured by Elkay.
Service Sink	(1) Model MSB-2424, floor-mounted fiberglass service sink as manufactured by Fiat. Includes (1) Model 897-CP faucet as manufactured by Chicago Faucet.
Classroom Sink	(4) Model DLRQ331910 33" x 19" x 10 1/8" stainless sink with Model LK2439BH faucet as manufactured by Elkay.
Water Closet	(4) 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 Olselite. ADA compliant. Stainless steel grab bars.
Lavatory	(4) Comrade Model 18" x 20", vitreous china wall-hung as manufactured by American Standard.Factory standard. ADA compliant.
Lavatory Faucet	(1) Model 802-V665CP as manufactured by Chicago Faucet per lavatory
Water Heater	(1) electric water heater. Size as required by code.
Mirror	(1) 18" x 36" with stainless steel frame per lavatory.
Restroom Accessories	Soap, toilet paper, sanitary napkin and paper towel dispensers by Others.
Furnishings	
Cabinet	(1) Model "Essentials Rutland II" 24" x 72" base cabinet with 12" x 72" upper cabinet per classroom. Includes 25 1/2" x 72" x 1/16" HPLAM countertop.
Fire Extinguisher	(1) 10# ABC with semi-recessed cabinet per exit.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw. Delete hardibacker underlayment.
Roof Mansard Ceiling	Around full perimeter. 1 1/2" x 30" projection on 70' walls and 24" x 30" projection on 14' walls. Hardisoffit® vented panels. 2' x 4' "Baroque" acoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8'6" nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
AirConditioning Unit	(4) Bard Model W***-H1-A-**-V-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
Carbon Dioxide Sensor	(4) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(4) Bard CS2000A, or Marvair equal.
Coat Hook Assembly	(4) 12" deep x 10' wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Markerboard	(4) Factory standard, 4' x 12' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Tackboard	(8) Factory standard, 4' x 4' cork boards with aluminum frame.
Storage Closet	(4) 3' x 5' with wire shelving at 72" AFF.

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