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**OVERVIEW**

Existing Classrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing classrooms may be undersized in comparison to the district standard. PAUSD will assess how best to address this size differential as part of its ongoing master planning effort.

**GENERAL DESIGN CONCEPTS:**

- **Flexibility:** To accommodate variations in enrollment, Classrooms not requiring the use of specialized equipment or built-in features should be as standardized as possible across the disciplines with minimal distinction, if any among English, Social Studies, Mathematics, and World Language Classrooms. Furniture, other than casework described below, to be mobile rather than built-in. Classrooms should allow the maximum amount of flexibility of use as well as encourage interaction and sharing of experiences between classrooms.
- **Daylighting:** At a minimum, classrooms should have access to daylight sufficient to continue lessons should a power outage occur. Where possible, classrooms should be designed to take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and / or skylight placement should be carefully considered to prevent glare and excessive heat gain; the addition of tints or films may need to be considered for some existing windows.
- **Covered Walkways:** Connect classrooms to one another and to other buildings via covered walkways and extended overhangs. Covered walkways should be wide enough to provide space for circulation and be high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Two-Story Construction:** Two story construction will be considered on High School campuses where there is no negative effect on surrounding communities. Two story buildings should be located near other high profile, buildings on campus.
- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks).
- **Ancillary Space(s):**
  - Storage: Storage rooms for bulky or infrequently used and seasonal items should be distributed throughout the campus for ease of access.
- **Faculty Spaces:**
  - High Schools:
    1. Provide Faculty Office & Work areas for each department, including office space, resource area, break room and a workroom.
- **Adjacencies:**
  - High Schools:
    1. Cluster Classrooms by department wherever possible, near departmental offices and work areas.

**CLASS SIZE (Enrollment):**

1. Space for up to 32 students at High School level.
2. Does not include storage or other ancillary space. **960 SF Net area minimum.**

**STANDARD REQUIREMENTS**

- **Classroom Size:** The California Department of Education (CDE) defines a standard classroom size at **960 SF**, resulting in a square footage per student of approximately 34 SF per student for average loading of 28 students. For classrooms expected to house up to 32 students on a regular basis, this could be increased to 1,090 SF. This square footage includes any instructional space immediately adjacent to and easily supervisable from the classroom.
- **Sound Attenuation:** Sound transmission between classrooms should be minimized so that adjacent classrooms do not disturb each other during normal operation. Some programs may dictate enhanced acoustical attenuation.
- **Ceiling Height:** Ceiling height to remain as is in existing classrooms. Minimum ceiling height for new construction with flat ceilings is 10'-0". New classrooms with sloped ceilings may start with a 9'-0" plate height at the low end. Ceiling configuration in new construction should provide daylighting into interior spaces where possible.
- **Doors:** Provide one 3'-0" wide entry/exit door per classroom. A 2<sup>nd</sup> door is preferred where feasible, located as far away from the other as possible. Provide hollow metal steel doors with 4" wide by 25" high minimum reflective glass vision panels for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors. All exterior classroom doors shall have "lockdown" hardware allowing classrooms to be locked from the interior.

**Architectural Finish**

- Floors: District standard Carpet or Linoleum. Either material may be used, and at the campus' discretion.
- Walls: Bio-based material wall covering or painted gypsum board. Color selections shall be in accordance with District Standard color palette for the school.
  - Bio-based material wall covering is preferred surface over gypsum board for cleaning purposes, but not required.
- Ceiling: 2 x 4 or 2 x 2 suspended grid with acoustical lay-in tile is preferred ceiling, with reflective properties appropriate for to coincide with indirect lighting where appropriate.
- Doors and Frames: Hollow metal, painted for exterior, with wood doors in hollow metal frames for interior doors.
- Sun Control: Roller shades provided at windows to darken rooms to appropriate levels for projector use and for lock downs. Blinds OK in instances where shades not feasible.

**Casework**

- 16 linear feet minimum of wall cabinets, base and upper, should be provided. Base cabinet portion of cabinet to be 2'-10" (34") high. Remaining base cabinets to have doors with one adjustable shelf per cabinet. Upper portions of cabinet to have 3 adjustable shelves per cabinet unit. Countertops should have bull-nose edges with backsplash and side splashes.
- Teacher Storage: 3 linear feet teacher wardrobe cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide magnetic markerboard units on at least two adjacent walls
- Fire extinguisher: 1 wall-mounted fire extinguisher near main entry door

**Mechanical Electrical and Plumbing** – Reference - Current CAL Green requirements (Part 11 of Title 24)

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**OVERVIEW**

Existing Classrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing classrooms may be undersized in comparison to the standard. PAUSD will assess how best to address this size differential as part of its ongoing master planning effort.

**GENERAL DESIGN CONCEPTS:**

- **Flexibility:** Visual & Performing Arts classrooms are generally program specific and are not planned to be used by multiple departments.
- **Daylighting:** At a minimum, classrooms should have access to daylight sufficient to continue lessons should a power outage occur. Where possible, classrooms should be designed to take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and / or skylight placement should be carefully considered to prevent glare and excessive heat gain; the addition of tints or films may need to be considered for some existing windows.
- **Covered Walkways:** Connect classrooms to one another and to other buildings via covered walkways and / or extended overhangs. Covered walkways should be wide enough to provide space for circulation and be high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Two-Story Construction:** Two story construction for Visual and Performing Arts spaces is not desired. Adjacent, outdoor space is desirable.
- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks)
- **Ancillary Space(s):**
  - Storage: Storage rooms for bulky or infrequently used and / or seasonal items should be included as noted for each of the spaces below.
- **Faculty Spaces:**
  1. Departmental Office / Workroom – Not required
  2. Faculty / Staff Dining / Meeting Room – Not required
  3. Conference Meeting Space – Located near classroom spaces for departmental meetings for up to 8 people.
- **Adjacencies:**
  1. Cluster Visual & Performing Arts spaces as needed, noting certain Performing Arts spaces are better isolated from other campus uses due to noise transmission.
  2. Each space will have adjacent support spaces and be located near the Performance venue for ease of moving instruments and equipment while staging events and performances.
  3. Desirable to have secured, outdoor space adjacent to the Visual Arts classes.

**CLASS SIZE (Enrollment):**

- Visual & Performing Arts spaces typically have a wide range in class sizes. See typical class size range for each space.

**Visual Arts:**

**1. Art Classroom – Ceramics/Glass:**

- **Classroom Size:** Space for up to 32 students, up to **2,050** sf
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Outdoor courtyard:** Art Classroom should be adjacent and have direct access to an outdoor courtyard area (current sculpture court at Paly is 32' x 32'). Area should include a Kiln enclosure and Kiln for ceramics.
- **Art Office and Workroom:** Provide a small office/work room adjacent to the classroom for teacher work space.
- **Art and Pottery Storage:** Provide one large or two small storage spaces with shelves for pottery and storage space.

**Architectural Finish**

- **Floors:** Resilient flooring preferred, such as linoleum. Stained and polished concrete is also an option where appropriate
- **Walls:** Painted gypsum board.
- **Ceiling:** Open or suspended ACT, as required to support adequate lighting levels.
- **Sun Control:** Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use or lock downs.

**Casework**

- **Specialty Cabinets:** Flat files for large format work, drying shelves for ceramics, clay cabinets, drying racks for artwork, 34" high base cabinets with adjustable shelves.
- **Teacher Storage:** 3 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- **Student Workstations:** Utility tables with either wood or steel tops.

**Specialties**

- **LED Display, 80"** or as room allows, or **Projector** – current district standard. Both could be used in certain circumstances.
- **Lightspeed** – Sound assist teaching devices with 4 speakers
- **Markerboards:** Provide markerboard units on two walls

**Mechanical Electrical and Plumbing** – Reference - Current CAL Green requirements (Part 11 of Title 24)

- Air Conditioning will be provided in classrooms.
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide double compartment, ADA compliant sink.
- Oversize utility sink
- Clay trap/collector for ceramics room
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- **Telephone:** 1 VOIP telephone in each classroom
- **Clock and Speaker:** Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- **Wireless:** Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom

- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**2. Art Classroom – Painting/Drawing, Graphic Design & Spectrum (General) - Two per campus.**

- **Classroom Size:** Space for up to 32 students, up to 2,050 sf for Spectrum and Painting/Drawing classes, (Current Art Rooms at Paly 32' x 64') and for Graphic Design, 1,025 sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Natural Lighting:** Overhead, natural daylighting and/or north facing natural daylighting is desirable.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Outdoor courtyard:** Art Classroom should be adjacent and have direct access to an outdoor courtyard area (current sculpture court at Paly is 32' x 32').
- **Movable Partition:** At least one of the Art Classrooms should have a folding partition wall to isolate/use as two spaces, with Graphic Design taking up one of the spaces.
- **Art Office and Workroom:** Provide a small office/work room adjacent to the classroom for teacher work space.
- **Art Storage:** Provide storage space with shelves for each classroom.
  
- **Architectural Finish**
- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open, exposed or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- Perimeter Cabinets: Flat files for large format work, 34" high base cabinet with adjustable shelves
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Utility tables with either wood or steel tops

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide dry-erase markerboard units on two walls
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide double compartment, ADA compliant sink.
- Large utility sink
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**3. Art Classroom – Photography:**

- **Classroom Size:** Up to 32 students per class, 1,000 sf, plus dark room, office (100 sf) and storage below.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0" for classroom ( 9'-0" for darkroom) though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Dark Room:** Provide six enlarger stations around a developer tray and sink. Light lock for entry and exit into dark room. Coordinate light fixtures and operation. (Paly Dark Room = 300 sf, plus light lock)
- **Portrait/Storage Room:** Provide a large room for portrait screen backdrop, storage of chemicals and other equipment adjacent to the classroom space. 350 sf

**Architectural Finish**

- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- Perimeter Cabinets: 34" high base cabinets with adjustable shelves on two walls
- Shelving: In classroom, one wall of shallow shelves
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Dark Room: Shallow shelves on one wall across from enlarger stations. Center developer tray and sinks.
- Storage: Tall storage cabinets on one wall.

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide dry-erase markerboard units on two walls
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Enhanced ventilation and exhaust for dark room
- Plumbing to support developer tray, sink, and wash down.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide double compartment, ADA compliant sink.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**Performing Arts:**

**1. Drama Classroom:**

- **Classroom Size:** Drama classes may hold up to 50 students. Desired size is 1,350 sf. (From PAC) Gunn uses Little Theater for classroom.
- **Location:** Drama classroom ideally located adjacent to performance spaces and associated support spaces, such as the Green Room, Dressing Rooms and Staging areas for set making. Drama classroom could also be used for staging & support during performances
- **Sound Proofing:** As a performing arts teaching space, sound proofing should be enhanced. Within room, acoustic performance should be accounted for, with acoustic treatment used to enhance audio and visual performance and teaching.
- **Ceiling Height:** Ceiling height shall be a high space, preferably over 15'. Ceiling should be open, with ceiling pipe grid for attaching production lighting and drapery.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

**Architectural Finish**

- Floors: Linoleum or wood floors, appropriate for practicing dance, singing and small performances.
- Walls: Painted gypsum board, with black curtains or acoustic panels for sound attenuation.
- Ceiling: Open, with ceiling pipe grid for lighting and drapery.
- Doors and Frames: Painted.
- Sun Control: Black-out shades should be provided for this space.

**Casework**

- Teacher Storage: 3 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Wall Storage: One wall base cabinets and countertop, with upper wall cabinets above

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Sound system: connectivity to portable sound input system
- Markerboards: Provide dry-erase markerboard unit on one wall
- Fire extinguisher: 1 wall-mounted fire extinguisher.

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms. Sound attenuation for unit required.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Basic classroom lighting, use current district standard lamp and ballast, with stage lighting to augment performing space
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control, with override.
- Per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom

- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.
- Sound system: Provide a separate set of speakers and AV system rack for music.

**2. Music Classroom – Instrumental:**

- **Classroom Size:** Up to 100 students, with instruments. Desired size is 3,360 sf (From Gunn CBP), inclusive of 3 practice rooms.
- **Sound Proofing:** As a performing arts teaching space, sound proofing should be enhanced. Within room, acoustic performance should be accounted for, with acoustic treatment used to enhance audio and visual performance and teaching.
- **Ceiling Height:** Ceiling height shall be a high space, preferably over 15' and calculated by cubic volume per recommended standards for music rooms. Ceiling should be open, with acoustic treatment to enhance sound.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Practice Rooms:** Provide three (3) practice rooms—2 solo and/or duet rooms and one ensemble room (8' x 10' for solo, 8 x 12' for duet).
- **Instrument Storage:** Provide 540 sf instrument storage room with variable shelving units or Wenger storage cabinets.
- **Sheet Music Storage:** Provide high density storage unit for sheet music (8' x 10' size based on Gunn) near music office
- **Music Office and Storage:** Provide large office space for two faculty, and storage space
- **Mezzanine:** Utilize high bay space over practice rooms if possible, for oversized instrument storage and provide stair access.

**Architectural Finish**

- Floors: Linoleum.
- Walls: Painted gypsum board, with black curtains or acoustic panels for sound attenuation.
- Ceiling: Open, with ceiling grid for lighting and drapery.
- Doors and Frames: painted.
- Sun Control: Shades should be provided for windows.

**Casework**

- Wall Cabinets: Provide 12 LF of upper and base cabinets including sink with bubbler
- Music Storage: Provide music storage cabinets appropriate to the number of musicians and types of instruments.
- Teacher Storage: One Wall of teacher wardrobe storage cabinets 7'-0" high by 2'-0" deep with lockable doors in Office

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Projector – with connectivity to stage video
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide dry-erase markerboard units on two walls, with music lines
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide sink
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.

- Provide an ADA compliant sink.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage

**3. Music Classroom – Choral:**

- **Classroom Size:** Up to 120 students. Desired clear room size is 2,000 SF (From Gunn CBP), with large alcove space (180 sf) and two Practice rooms, one large (12' x 13') and one small (10' x 12').
- **Sound Proofing:** As a performing arts teaching space, sound proofing should be enhanced. Within room, acoustic performance should be accounted for, with acoustic treatment used to enhance audio and visual performance and teaching.
- **Ceiling Height:** Ceiling height shall be a high space, preferably over 15' and calculated by cubic volume per recommended standards for music rooms. Ceiling should be open, with acoustic treatment to enhance sound.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Wardrobe and Music Storage:** Provide an adjacent large storage room (280sf) with tall cabinets on each wall for wardrobe storage. Include small high-density storage cabinets for sheet music.
- **Music Office:** Provide large office space for two faculty.

**ARCHITECTURAL FINISH:**

- Floors: Carpet. Include linoleum insets at classroom entries and adjacent to sink counters/anticipated wet areas.
- Walls: Painted gypsum board, with black curtains or acoustic panels for sound attenuation.
- Ceiling: Open, with ceiling grid for lighting and drapery.
- Doors and Frames: painted.
- Sun Control: Shades should be provided for windows.

**Casework**

- Wall Cabinets: Provide 12 LF of upper and base cabinets including sink with bubbler in alcove space.
- Wardrobe Storage: Provide 30' of tall storage cabinets for wardrobe.
- Music Storage: Provide high density shelving for storage of sheet music
- Teacher Storage: One Wall of teacher wardrobe storage cabinets 7'-0" high by 2'-0" deep with lockable doors in Office.

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Projector – with connectivity to stage video
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide dry-erase markerboard units on two walls with music lines
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.

- Fire extinguisher: 1 wall-mounted fire extinguisher.
- **Mechanical Electrical and Plumbing**
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide an ADA compliant sink.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**4. Performing Arts Venue:**

- **Size:** Board approved capacity of venues is 583 people at Paly Performing Arts Center, and 835 people at Spangenberg Theater.
- **Sound Proofing:** As a performing arts space, sound performance shall be superior. Within theater space, acoustic performance should be enhanced, including a sound enhancement system, like Meyer Sound System where possible.
- **Ceiling Height:** Ceiling height shall be a high space, preferably over 30' and calculated by acoustic engineer for superior sound quality. Ceiling should be open, with acoustic treatment to enhance sound.
- **Doors:** Provide (2) 3'-0" wide entry / exit door. Provide steel doors with glass for all exterior lobby doors, with solid metal doors for other access and service doors. Wood doors should be provided for interior doors. All interior doors to performance space shall be soundproof.
- **Stage:** Provide large, 36' deep min. stage with 40' wide proscenium, or as exists. Production rigging for stage sets, lighting and theater drapery provided as desired.
- **Catwalks:** Provide catwalks and service access ways to service and set up lighting, staging and sound as necessary.
- **Green Room:** Provide a green room space adjacent to backstage area for performance support.
- **Dressing Rooms:** Provide male/female dressing and changing rooms with folding partition, so space can be gender neutral for outside events.
- **Restrooms:** Provide restrooms adjacent to the dressing rooms.
- **Lobby/Pre-function Area:** Provide an appropriately sized lobby area to support pre and post-performance crowds. Provide an indoor/outdoor ticket booth adjacent to main entry locations. Provide adequately sized exterior space adjacent to the lobby for arrival.

**Architectural Finish**

- Floors: Varies per space.
- Walls: Painted gypsum board, with acoustic panels for sound attenuation where appropriate.
- Ceiling: Open, with ceiling grid for lighting and drapery.
- Doors and Frames: painted or finished wood as appropriate.
- Sun Control: Shades should be provided for windows, no windows in theater space.

**Casework**

- Wall cabinets as required/needed in support spaces such as concessions, green room, and dressing rooms.

**Specialties**

- Projector – Large projector and screen over proscenium for assemblies and speakers

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided. Equipment needs to have acoustical treatment to avoid mechanical noise in the performance space.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability.
- Lighting should be dimmable LED recessed lighting
- Lighting shall be switched per Title 24, utilizing light control systems for multiple light settings.
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone in each classroom
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide WAPS in ceiling per IT recommendations.
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Audio Visual systems: Provide AV systems support throughout to support performances.

**OVERVIEW**

Existing Classrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing classrooms may be undersized in comparison to the standard. PAUSD will assess how best to address this size differential as part of its ongoing master planning effort.

**GENERAL DESIGN CONCEPTS:**

- **Flexibility:** Media Arts and CTE classrooms are generally program specific and are not planned to be used by multiple departments.
- **Daylighting:** At a minimum, classrooms should have access to daylight sufficient to continue lessons should a power outage occur. Where possible, classrooms should be designed to take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and / or skylight placement should be carefully considered to prevent glare and excessive heat gain; the addition of tints or films may need to be considered for some existing windows. Daylighting is desired, but not at the sacrifice of program needs outlined below.
- **Covered Walkways:** Connect classrooms to one another and to other buildings via covered walkways and / or extended overhangs. Covered walkways should be wide enough to provide space for circulation and be high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Two-Story Construction:** Two story construction for Media Arts and CTE spaces are not ideal, but possible for some of the spaces that are closer to standard classroom size and configuration.
- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks).
- **Ancillary Space(s):**
  - Storage: Storage rooms for bulky or infrequently used and / or seasonal items should be included as noted for each of the spaces below.
- **Faculty Spaces:**
  1. Departmental Office / Workroom – Not required
  2. Faculty / Staff Dining / Meeting Room – Not required
- **Adjacencies:**
  1. Cluster Media Arts and CTE spaces as needed.
  2. Each space will have adjacent support spaces.

**CLASS SIZE (Enrollment):**

- Media Arts and CTE spaces typically have a wide range in class sizes. See typical class size range for each space.

**Media Arts:**

**1. Journalism (Two):**

- **Classroom Size:** Space for up to 32 students, **1,000** sf each.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Journalism Lab:** Provide a central/adjacent journalism lab space with computers for journalism student workspace. Space should be approximately 1,000 sf and have vision glass windows to both Journalism classrooms for supervision. Ability to expand space if possible, desirable for use by yearbook, newspaper and magazine classes.

**Architectural Finish**

- **Floors:** Resilient flooring preferred, such as linoleum.
- **Walls:** Painted gypsum board.
- **Ceiling:** Open or suspended ACT, as required to support adequate lighting levels.
- **Sun Control:** Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- **Specialty Cabinets:** One wall of base and wall cabinets as needed for supplies and student workspace.
- **Teacher Storage:** 3 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- **Student Workstations:** Utility tables with either wood or steel tops

**Specialties**

- **LED Display, 80"** or as room allows, or **Projector** – current district standard. Both could be used in certain circumstances.
- **Lightspeed** – Sound assist teaching devices with 4 speakers
- **Markerboards:** Provide dry-erase markerboard units on two walls

**Technology:**

- **Telephone:** 1 VOIP telephone in each classroom
- **Clock and Speaker:** Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- **Wireless:** Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- **Ethernet connection:** Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- **Call-Back button**
- **Ensure cell phone and radio coverage is available within spaces.** In 2-story construction, specify repeaters for coverage.

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CALGreen (Part 11 of Title 24)

**2. Broadcast Journalism Classroom, Studio and Editing Suites:**

- **Classroom Size:** Space for up to 32 students, approximately 1,000 sf, plus Studio and Editing Suites noted below. (2,500 sf total)
- **Sound Proofing:** Maximum acoustical isolation desirable at Studio and Editing Suites.
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors. Sound proof doors from classroom space to studio.
- **Studio:** Provide an approximately 500 sf. studio space, including prop storage, with an adjacent, visually connected, control room of 100 sf. with AV controls and sound board. Studio, control room should be sound proof, with security and surveillance cameras.
  1. **Editing Suites:** Provide approximately 500 sf. of editing suite space, that includes 5-6 suites of varying sizes (1 or 2 person) adjacent to and visible from the Broadcast Journalism classroom.
  2. **Office:** provide an office of approximately 90 sf., adjacent and visually connected to the Broadcast Journalism Classroom.

**Architectural Finish**

- **Floors:** Resilient flooring preferred, such as linoleum.
- **Walls:** Painted gypsum board.
- **Ceiling:** Open or suspended ACT, as required to support adequate lighting levels.
- **Sun Control:** Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- **Perimeter Cabinets:** Workstations in Editing Suites.
- **Teacher Storage:** 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- **Student Workstations:** Utility tables with either wood or steel tops

**Specialties**

- **LED Display, 80" or as room allows, or Projector** – current district standard. Both could be used in certain circumstances.
- **Lightspeed** – Sound assist teaching devices with 4 speakers
- **Markerboards:** Provide markerboard units on two walls

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CALGreen (Part 11 of Title 24)

**Technology:**

- **Telephone:** 1 VOIP telephone in each classroom
- **Clock and Speaker:** Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- **Wireless:** Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- **Ethernet connection:** Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- **Call-Back button**

- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.
- Broadcast Video Equipment: See Paly MAC equipment list for cameras, sound board and other necessary AV equipment.

**3. Video Production Classroom:**

- **Classroom Size:** Up to 32 students per class, with approximately **1,600** sf.
  1. Office; approximately 90 sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

**Architectural Finish**

- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- Perimeter Cabinets: 34" high base cabinets with adjustable shelves
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Half of room will have student computer workstations for editing. Remainder of room set up for viewing.

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers, with connection to AV system for playing movies.
- Markerboards: Provide dry-erase markerboard units on two walls

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**4. Digital Imaging/Animation Classroom:**

- **Classroom Size:** Up to 32 students per class, approximately **960** sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

**Architectural Finish**

- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- Perimeter Cabinets: 34" high base cabinets with adjustable shelves along back wall.
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide magnetic markerboard units on at least two adjacent walls
- Fire extinguisher: 1 wall-mounted fire extinguisher near main entry door

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

### **Career & Technical Education**

#### **1. Engineering Technology and Robotics:**

- **Classroom Size:** Up to 32 students per class, approximately 1,400 sf
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Storage:** Provide lockable storage room adjacent to lab, preferably with doors that can remain open during class time for access to printers and other equipment.

#### **Architectural Finish**

- **Floors:** Resilient flooring preferred, such as linoleum.
- **Walls:** Painted gypsum board.
- **Ceiling:** Open or suspended ACT, as required to support adequate lighting levels.
- **Sun Control:** Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

#### **Casework**

- **Perimeter Cabinets:** 34" high base cabinets with adjustable shelves
- **Teacher Storage:** 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- **Student Workstations:** Provide student workstations with computers in half of the lab space.

#### **Specialties**

- **LED Display, 80" or as room allows, or Projector** – current district standard. Both could be used in certain circumstances.
- **Lightspeed** – Sound assist teaching devices with 4 speakers
- **Markerboards:** Provide dry-erase markerboard units on two walls

#### **Mechanical Electrical and Plumbing** – Reference - Current CAL Green requirements (Part 11 of Title 24)

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

#### **Technology:**

- **Telephone:** 1 VOIP telephone in each classroom
- **Clock and Speaker:** Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- **Wireless:** Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- **Ethernet connection:** Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- **Call-Back button**
- **Ensure cell phone and radio coverage is available within spaces.** In 2-story construction, specify repeaters for coverage.

**2. Automotive Tech:**

- **Classroom Size:** Up to 32 students per class, approximately **2,400** sf shop space, 600 sf small classroom and another 900 sf of storage spaces, including parts storage, welding room, and tool storage. Welding room should be separate from other spaces and shop area.
- **Sound Proofing:** Not required but some acoustical isolation desirable toward exterior if near other classrooms.
- **Ceiling Height:** Minimum ceiling height for new construction with open ceilings is 15'-0", though higher ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

**Architectural Finish**

- Floors: Sealed concrete or other hard surface flooring.
- Walls: Painted gypsum board.
- Ceiling: Open

**Casework**

- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Shelving: Storage shelving as needed for organized tool and part storage.

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide dry-erase markerboard units on two walls
- Hydraulic Lift: Lift near roll up door in high bay lab area for lifting cars
- Engine Lifts: Smaller hydraulic lifts for engines, up to 6 each.
- Eye Wash Station: One per shop space.
- Hand Wash Station: One industrial size hand washing station in shop space.
- Air Compressor: One air compressor unit.
- Welding Equipment: See Gunn IA welding equipment list.

**Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**3. Culinary Arts: (Can also be used for Family/Consumer Skills)**

- **Classroom Size:** Up to 32 students per class, approximately **1,400 sf**.
  1. Culinary Arts to have food preparation area like a commercial kitchen. Adjacent to the school's food service and kitchen area so that they can get involved in the food delivery operation.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Food Prep and Storage:** Provide an adjacent room for teacher prep space and food storage. Provide a refrigerator and countertop space with a sink.
- **Adjacency:** Prefer space to be adjacent to food service kitchen and workspace for teaching/learning opportunity.

**Architectural Finish**

- Floors: Cleanable flooring as approved by Health Department, such as linoleum or epoxy
- Walls: Painted gypsum board and FRP Paneling as appropriate. Some stainless-steel cladding in cooking areas
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- Perimeter Cabinets: 34" high base cabinets with adjustable shelves
- Teacher demonstration station: Small base cabinet and countertop workstation with sink and angled mirror for teacher demonstration.
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Student workstations, up to 8 per classroom for up to 4 students per station. Each station to have base cabinets and countertops in kitchenette arrangement, with equipment noted below.

**Specialties**

- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide dry-erase markerboard units on two walls
- Each workstation to have a utility sink, dishwasher, range/oven and hood.
- Washer/Dryer

**Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom

- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**OVERVIEW:** Existing science facilities need to be upgraded and expanded or replaced to provide the program requirements to the extent possible. The science department covers a wide range of practical, experimental, and theoretical level science instruction. Science classroom facilities vary in the level of sophistication from the general science classrooms to the chemistry laboratory environment.

**GENERAL DESIGN CONCEPTS:**

- **Flexibility:** Provide a variety of instruction and independent learning spaces. Should be adaptable as program changes and be able to accommodate full classroom instruction and lab activities.
- **Daylighting:** At a minimum, classrooms should have access to daylight sufficient to continue lessons should a power outage occur. Where possible, classrooms should be designed to take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and / or skylight placement should be carefully considered to prevent glare and excessive heat gain; the addition of tints or films may need to be considered for some existing windows. Daylighting is desired but should be controlled where programs require darkened classrooms.
- **Covered Walkways:** Connect as practical to existing or new covered walkway systems and/or extended overhangs where possible. Covered walkways should be wide enough to provide space for circulation and be high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Two-Story Construction:** Two story construction for Visual and Performing Arts spaces is not desired. Adjacent, outdoor space is desirable.
- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks)
- **Layout:** The science department is arranged in three areas: (1) the science classroom spaces, (2) the laboratory preparation and storage areas, and (3) the teachers workstations and staff area.
- **Faculty Spaces:** Provide a central, open work area for teaches. Each teacher to have an open work stations within the larger open area that foster interaction and collaboration.
- **Adjacencies:**
  1. Desirable in a central location near other academic classrooms that is easily accessible by students. An outdoor area is desirable for gardening and experiments.

**CLASS SIZE: (enrollment)**

- As a core curriculum class, the classes are typically fully enrolled with 32-36 per class.

### **Science Laboratories**

#### **1. General Science Classrooms**

- **Size:** Approximately 1,450 -1,500 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction is 10 ft. Other areas minimum height of 9 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have heavy duty, high use finish hardware.

#### **Architectural Finish:**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

#### **Casework:**

- Perimeter base cabinets and sink units (8-9)
- Upper cabinets and tall storage cabinets
- Instructional or demonstration unit with sink at the front of the classroom

#### **Specialties:**

- LED Display/Projector with large projection screen.
- flat screen monitors
- Sound system with distributed speakers
- Markerboards

#### **Mechanical Electrical and Plumbing**

- Air Conditioning will be provided in classrooms.
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide double compartment, ADA compliant sink.
- Oversize utility sink
- Clay trap/collector for ceramics room
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

#### **Technology:**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED displays and copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**2. Science Laboratory Classrooms**

- **Size:** Approximately 1,500-1,550 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 10'-0" for new construction
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have heavy duty, high use finish hardware.

**Architectural Finish:**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework:**

- Perimeter base cabinets and sink units (8-9)
- Upper cabinets and tall storage cabinets
- Instructional or demonstration unit with sink at the front of the classroom

**Specialties:**

- LED Display/Projector with large projection screen.
- flat screen monitors
- Sound system with distributed speakers
- Markerboards

**Mechanical Electrical and Plumbing**

- Air Conditioning will be provided in classrooms.
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide double compartment, ADA compliant sink.
- Oversize utility sink
- Clay trap/collector for ceramics room
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED displays and copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

**3. Laboratory Preparation and Storage Area**

- **Size:**
- Prep Area: varies according to the number of science classrooms.  
Approximately 240 sf. per classroom.  
Central Storage Area: varies according to the number of science classrooms  
Approximately 45 sf. per classroom
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height is 9 ft., higher ceiling height desirable
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Passage doors to each science classroom is required. Provide wood doors at interior and hollow metal steel doors at exterior with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have heavy duty, high use finish hardware.

**Architectural Finish:**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework:**

- Base cabinets and upper cabinets
- Bookshelves
- Tall storage cabinets

**Specialties:**

- Markerboards
- Copy machine/s
- Specialized electrical requirements for equipment
- Full-size refrigerator and freezer
- Dishwasher
- Chemical storage cabinet
- Fume hood
- Emergency shower
- Emergency eye wash
- Large sinks
- Bottle drying rack
- Metal utility shelving

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Data outlet for printer connections

**4. Student Resource Center**

- **Size:** Approximately 960 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0", higher ceiling desirable
- **Doors:** Wood doors with glass panels of 25" x 25"
- **Window:** Visibility to see out for supervision purposes. Provide window blinds for view control.

**Architectural Finish:**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework:**

- Base cabinets
- Tall cabinets for storage

**Specialties:**

- LED Display/Projector with large projection screen.
- flat screen monitor
- Markerboards
- Copy machine

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Data outlet for printer connections

**5. Staff Office Area**

- **Size:** approximately 50 sf. per station, could be built-in, low partitions or open office landscape furnishings
- **Sound Proofing:** Some acoustical isolation desirable but nature of open space makes this difficult
- **Ceiling Height:** Minimum ceiling height of 9'-0", higher ceiling desirable
- **Doors:** Provide code minimum number of doors required for exiting as well as those required for convenience.
- **Windows:** Visibility to see out for supervision purposes. Provide window blinds for view control.

**Architectural Finish:**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework:**

- Workstations if built-in
- Mail boxes

**Specialties**

- Markerboards
- Copy machine

**Technology:**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Data outlet for printer connections

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**6. Staff Work Room**

- **Size:** Approximately 250 sf.
- **Sound Proofing:** Some acoustical isolation desirable.
- **Ceiling Height:** Minimum ceiling height of 9'-0", higher ceiling desirable
- **Doors:** Provide code minimum number of doors required for exiting as well as those required for convenience. Direct access to the outside is desirable.
- **Windows:** Visibility to see out for supervision purposes. Provide window blinds for view control.

**Architectural Finish:**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework:**

- Base and upper cabinets
- Tall cabinets for storage

**Specialties:**

- Markerboards
- Copy machine

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Data outlet for printer connections

**7. Staff Room**

- **Size:** Approximately 800 sf.
- **Sound Proofing:** Some acoustical isolation desirable.
- **Ceiling Height:** Minimum ceiling height of 9'-0", higher ceiling desirable

- **Doors:** Provide code minimum number of doors required for exiting as well as those required for convenience. Direct access to the outside is desirable.
- **Windows:** Visibility to see out for supervision purposes. Provide window blinds for view control.

**Architectural Finish:**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework:**

- Base and upper cabinets in a kitchen configuration
- Microwave cabinet
- Tall storage cabinets.

**Specialties:**

- Flat screen monitor
- Markerboards
- Copy machine
- Dishwasher
- Refrigerator with water connection
- Sink

**Mechanical Electrical and Plumbing**

- H Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CALGreen (Part 11 of Title 24)

**Technology:**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Data outlet for printer connections

**8. Staff Restrooms**

- **Size:** Approximately 350 sf.  
(for new construction if the new facility is remote from existing staff restrooms)
- **Sound Proofing:** Some acoustical isolation desirable.
- **Ceiling Height:** Minimum ceiling height of 9'-0", higher ceiling desirable
- **Doors:** Provide code minimum number of doors required for exiting as well as those required for convenience. Direct access to the outside is desirable.

**ARCHITECTURAL FINISH:**

- Floors: Ceramic mosaic tile
- Walls: Painted gypsum board with ceramic tile wainscot
- Ceiling: Painted gypsum board

**SPECIALTIES:**

- Toilet accessories

**MECHANICAL ELECTRICAL AND PLUMBING**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.

- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CALGreen (Part 11 of Title 24)

**OVERVIEW**

Existing library facilities need to be upgraded and expanded or replaced to provide the program requirements to the extent possible. The library is the “heart” of the campus and provides an educational space beyond the collection of books. It’s the resource center for project-based learning, individual and group instructional activities, research center, and respite from the daily school activities.

**GENERAL DESIGN CONCEPTS:**

- **Flexibility:** Provides a variety of instruction and independent learning spaces. Should be adaptable as program changes and be able to accommodate full classroom activities.
- **Daylighting:** Where possible, the library should be designed to take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and / or skylight placement should be carefully considered to prevent glare and excessive heat gain; the addition of tints or films may need to be considered if protection is needed for the book collection.
- **Covered Walkways:** Connect via covered walkways and / or extended overhangs where possible. Covered walkways should be wide enough to provide space for circulation and be high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Two-Story Construction:** Two story construction will be considered on High School campuses where there is no negative effect on surrounding communities. Two story buildings should be located near other high profile, buildings on campus.
- **Lobby:** Consider a lobby, interior or exterior, area that would provide a gathering space prior to entry. It also serves as a vestibule to prevent leaves and debris from blowing directly into the library.
- **Ancillary Space(s):**
  - Storage:
    1. Storage rooms for bulky or infrequently used and / or seasonal items.
    2. Book storage for summer use and rotating books.
- **Faculty Spaces:** Not required.
- **Adjacencies:**
  1. Desirable in a central location that is easily accessible by students.

**SIZE:**

- Able to accommodate two separate classes that have independent instructional activities.

## **Library**

### **1. Library – Reading Room**

- **Size:** Approximately 12,500 sf.
  1. Reading Room: to accommodate 60 students in two, separate instructional activities.
  2. Casual Reading: to accommodate 20 students
  3. Stacks: bookshelves, both perimeter at wall and freestanding to accommodate approximately 12,000-15,000 volumes.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction in the main reading room 16 ft. Other areas minimum height of 9 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4” wide by 25” high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

### **Architectural Finish**

- Floors: Carpet for sound control with walk-off mats at entry.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

### **Casework**

- As required for each space note above.
  1. Library bookshelves and display cases
- Display cases for books, objects, and general information

### **Specialties**

- LED Display/Projector with large projection screen.
- LED Displays, 80” or as room allows, or Projector – current district standard in Library teaching areas
- Sound system with distributed speakers
- Markerboards
- Announcement board
- Enhanced signage

### **Technology**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

### **Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**2. Library – Project Rooms**

- **Size:**
  1. Library Instruction/Collaboration Room: approximately 1,000 sf
  2. Silent Study Room: approximately 1,000 sf
  3. Small Project Rooms: Two at approximately 100 sf. and 125 sf.
  4. Large Project Room: approximately 175 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 9'-0".
- **Doors:** Provide wood doors with 25" wide by 25" high minimum vision panels.

**Architectural Finish**

- Floors: Carpet for sound control
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Specialties**

- Maximize magnetic markerboard surface within room

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Call-Back button

**Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**3. Library – Student Production Center**

- **Size:** As required to accommodate the activities
  1. This area is where students prepare project material, access copy machine, assemble reports, and borrow paper cutters and markers.
- **Sound Proofing:** Not required since this will be located with the larger library space and is not a separately enclosed room.
- **Ceiling Height:** Minimum ceiling height is 9 ft.
- **Doors:** Not required. Not required since this will be located with the larger library space and is not a separately enclosed room.

**Architectural Finish**

- Floors: Carpet, similar finish to library
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Large worktables or cabinet surface for layout.
- Cabinets for storage of materials

**Specialties**

- Markerboards
- Copy machine/s
- Enhanced signage
- Power for equipment

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Data outlet for printer connections

**Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**4. Library –Work Room and Office**

- **Size:** Approximately **650** sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Doors:** Wood doors with glass panels of 25" x 25"
- **Window:** Visibility to see out for supervision purposes. Provide window blinds for view control.

**Architectural Finish**

- Floors: Resilient flooring, such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Base cabinets with sink at the work room
- Tall cabinets for storage
- Flat files for large materials

**Specialties**

- Markerboards in work room

**Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit.
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.

**5. Library – Circulation Desk**

- **Size:**
  1. As required to accommodate two to three stations—one for check in/ out of books and one work station for information assistance.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Dedicated lighting to illuminate circulation counter
- **Doors:** Not applicable

**Architectural Finish**

- Floors: Carpet for sound control or resilient matting for standing
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

1. Circulation desk to accommodate two stations—one for check out of books and one workstation.
2. Back counter base cabinets for storage and layout
3. Book slot incorporated in to circulation desk with book cart behind
4. Bookshelves
5. Display shelves

**Specialties**

- Announcement board
- Enhanced signage
- Power and data coordination at circulation desk is critical
- Tack panel above back counter base cabinets

**Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control per CAL Green (Part 11 of Title 24)

**Technology:**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit.
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.

## **OVERVIEW**

The Administration is the interface between the school and the outside community. It serves as the primary security point for all visitors entering the campus and provides the information necessary to negotiate the administrative functions from attendance and records to discipline and guidance. The administration is typically located at the front of the campus in a building/s easily identified as the main campus entrance.

## **GENERAL DESIGN CONCEPTS:**

- **Flexibility:** The space shall be flexible and adaptable to the needs and demands of the students.
- **Daylighting:** Incorporating daylighting into the office spaces using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain.
- **Covered Walkways:** Connect via covered walkways and / or extended overhangs where possible. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Lobby:** A small reception and waiting area is necessary.
- **Ancillary Space(s):** see program spaces below.
- **Faculty Spaces:** Provide a general workroom and break area for the administrative staff
- **Adjacencies:**
  1. Located at the front of the site and easily identified as the main school entrance.

## **Administration**

### **1. Administration - Reception and Waiting**

- **Size:** Approximately 300 sf.
  1. Seating area for visitors waiting for assistance
  2. Reception desk to greet and direct visitors and students to appropriate services
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction in the main reading room 10 ft. Other areas minimum height of 9 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

### **Architectural Finish**

- **Floors:** Carpet for sound control with walk-off mats at entry.
- **Walls:** Painted gypsum board.
- **Ceiling:** Open or suspended acoustical ceiling tile
- **Sun Control:** Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- Reception desk with two workstations
- Back counter for storage
- Shelves and display cabinets
- Mail slot casework for staff & faculty

**Specialties**

- LED Display for campus information
- Announcement and information center, brochures
- Parent center for filling out forms
- Enhanced signage

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom

**2. Attendance**

- **Size:**
  1. Workstation and counter area – 200 sf
  2. Attendance Offices, two (2) at approximately 100 sf. each
  3. Records/File storage area approximately 100 sf.
  4. Conference Room for parent conferences – 180 sf
- **Sound Proofing:** Enhanced acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 9'-0".
- **Doors:** Provide wood doors with 25" wide by 25" high minimum vision panels.

**Architectural Finish**

- Floors: Carpet for sound control
- Walls: Painted gypsum board with markerboards and tack panel
- Ceiling: Suspended acoustical ceiling system.

**Casework**

- Base Cabinets with workstations

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.

**3. Administration - Open Office Work Area**

- **Size:** Open area for three workstations, approximately 600 sf.
  1. Storage and file cabinets
  2. Visibility to reception area is desirable
- **Sound Proofing:** Some acoustical isolation desirable.
- **Ceiling Height:** Minimum ceiling height is 10 ft.
- **Doors:** Provide hollow metal steel door with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for exterior door and solid wood door for interior.

**Architectural Finish**

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Cabinets for storage of materials
- Use of modular furnishings in lieu of built-in workstations

**Specialties**

- Markerboards

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.

**4. Administration - Offices**

- **Size:** multiple sizes
  - Principal, approximately 180 sf.
  - Assistant Principals, three (3) at approximately 120 sf. each
  - Budget, Registrar & Other offices, five (5) at approximately 100 sf each
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Doors:** Wood doors with glass panels of 25" x 25"
- **Window:** Visibility to see out for supervision purposes. Provide window blinds for view control.

**Architectural Finish**

- Floors: carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceilings.

**Specialties**

- Magnetic markerboards
- Tack board or tack able wall surface

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone each space
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.

**5. Administration - Conference Rooms**

- **Size:**
  1. Large, approximately 200 sf
  2. Small, approximately 125 sf
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

**Architectural Finish**

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Base cabinet in large conference room

**Specialties**

- Tack panel wall surface

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- LED monitor

**6. Staff Workroom**

- **Size:** approximately 800 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

**Architectural Finish**

- Floors: Resilient material such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Base cabinets with upper shelves
- Large layout table
- Tall storage cabinets

**Specialties**

- Announcement board
- Power and data
- Tack panel wall surface
- Copy machines

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone
- LED monitor
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.

**OVERVIEW**

Wellness and Counseling Center is a student resource designed to help students be comfortable in the academic and social setting associated with the educational environment. Wellness provides programs to assist students dealing with mental and physical health concerns. It's a place where the doors are always open for students to talk about any issues that they may be dealing with. Counseling services provide a safe and confidential place for students to share concerns in a one on one environment with a counselor. The Nurse or Health service can be incorporated into this program.

**GENERAL DESIGN CONCEPTS:**

- **Flexibility:** The space shall be flexible and adaptable to the needs and demands of the students.
- **Daylighting:** Incorporating daylighting into the office spaces using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain.
- **Covered Walkways:** Connect via covered walkways and / or extended overhangs where possible. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Lobby:** A small reception and waiting area is necessary.
- **Ancillary Space(s):**
  - Storage:
    1. Storage rooms for bulky or infrequently used.
- **Faculty Spaces:** Provide a general workroom and break area for the counselors and instructors
- **Adjacencies:**
  1. Desirable in a central location that is easily accessible by students.

**Wellness Center**

**1. Wellness – Reception and Waiting**

- **Size:** Approximately 280 sf.
  1. Seating area for students waiting for services
  2. Reception desk to greet and direct students
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction in the main reading room 10 ft. Other areas minimum height of 9 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

**Architectural Finish**

- Floors: Carpet for sound control with walk-off mats at entry.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended acoustical ceiling tile
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

**Casework**

- Reception desk with two workstations
- Back counter for storage
- Shelves and display cabinets
- Mail slot casework for staff & faculty

**Specialties**

- LED Display for campus information
- Announcement and information center, brochures
- Enhanced signage

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling
- Call-Back button

**2. Wellness – Conference and Meeting Rooms**

- **Size:**
  1. Large to hold groups of 20 students, approximately 350 sf.
  2. Small to hold 6 to 8 students approximately 150 sf.
- **Sound Proofing:** Enhanced acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 9'-0".
- **Doors:** Provide wood doors with 25" wide by 25" high minimum vision panels.

**Architectural Finish**

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Bookshelves in large conference room.

**Specialties**

- Markerboards

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.

**3. Wellness – Classroom**

- **Size:** Standard size, flexible classroom of approximately 960 sf.
  1. Used as instructional space
  2. Used for exercise and yoga
  3. Direct access to both the Wellness Center and the exterior
- **Sound Proofing:** Some acoustical isolation desirable.
- **Ceiling Height:** Minimum ceiling height is 10 ft.
- **Doors:** Provide hollow metal steel door with 4” wide by 25” high minimum vision panels with reflective glass or mirror finish for exterior door and solid wood door for interior.

**Architectural Finish**

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Large worktables or cabinet surface for layout.
- Cabinets for storage of materials

**Specialties**

- Markerboards

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

**4. Wellness –Offices**

- **Size:** Eight (8) offices of approximately 90 sf. each
  - Offices arranged around a central work area and near reception and conference rooms
  - Small kitchenette area in proximity

- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Doors:** Wood doors with glass panels of 25" x 25"
- **Window:** Visibility to see out for supervision purposes. Provide window blinds for view control.

**Architectural Finish**

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Base cabinets with sink at the work room
- Tall cabinets for storage
- Flat files for large materials

**Specialties**

- Markerboards in work room

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone each space
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.

**5. Wellness – Nurse**

The nurse and health area may or may not be near the Wellness Center. However, if it is it needs to be adjacent to the reception and waiting area.

- **Size:**
  1. Nurse Office, approximately 100 sf  
Needs to have unobstructed visibility to all support programs
  2. Triage, approximately 200 sf.  
Students are evaluated for medical assistance by nurse
  3. Quiet Area, approximately 150 sf.  
Place for students to rest, needs to hold two cots
  4. Toilet, approximately 50 sf.
  5. Gurney Closet, approximately 20 sf.
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

**Architectural Finish**

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Casework**

- Refer to reception and waiting for Wellness

**Specialties**

- Announcement board
- Sink
- Refrigerator
- Enhanced signage
- Power and data coordination at circulation desk is critical
- Tackpanel above back counter base cabinets

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Call-Back button

## **Guidance and Counseling**

### **1. Reception and Waiting**

- **Size:**
  1. The reception and waiting area can be shared with the Wellness Center if adjacent.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

### **Architectural Finish**

- Floors: carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceilings.

### **Casework**

- Refer to reception and waiting for Wellness

### **Specialties**

- Announcement board
- Enhanced signage
- Power and data coordination at circulation desk is critical
- Tackpanel above back counter base cabinets

### **Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

### **Technology**

- Telephone: 1 VOIP telephone each space
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.

### **2. Counseling Offices**

- **Size:** Eight (8) offices of approximately 90 sf. each
  - Offices arranged around a central work area and near reception and conference rooms
  - Proximity to small kitchenette area
  - Second exit is desirable, so students can exit without going through reception area
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

**Architectural Finish**

- Floors: carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceilings.

**Specialties**

- Markerboards

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

**3. Record and File Storage Room**

- **Size:**
  1. Secure storage room for records and files, approximately 90 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required.
- **Doors:** Wood door without vision panel

**Architectural Finish**

- Floors: Linoleum
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**4. College and Career Center – Reception and Waiting**

- **Size:**
  1. 280 sf. The reception and waiting area can be shared with the Wellness Center or Counseling, if adjacent.
- **Sound proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

**Architectural Finish**

- Floors: Carpet for sound control
- Walls: Painted gypsum board with markerboards
- Ceiling: Suspended acoustical ceiling system.

**Casework**

Refer to reception and waiting for Wellness

**Specialties**

- Announcement board
- Enhanced signage
- Power and data coordination at circulation desk is critical
- Tack panel above back counter base cabinets

**Technology**

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**5. College and Career Center – Offices**

- **Size:** Five (5) offices of approximately 90 sf. each  
Offices arranged around a central work area and near reception and conference rooms  
Proximity to small kitchenette area
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

**Architectural Finish**

- Floors: carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceilings.

**Specialties**

- Markerboards

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

**6. College and Career Center – Conference and Meeting Rooms**

- **Size:**
  4. Large to hold groups of 20 students, approximately 350 sf.
  5. Small to hold 6 to 8 students approximately 150 sf.
- **Sound Proofing:** Enhanced acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 9'-0".
- **Doors:** Provide wood doors with 25" wide by 25" high minimum vision panels.

**Architectural Finish**

- Floors: carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceilings.

**Specialties**

- Markerboards

**Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

**Technology**

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

**OVERVIEW**

Physical Education (PE) and Athletics facilities shall include several separate but related functions and facilities:

- Main Gym Foyer, Concessions, Store and Ticket Office
- Main Gymnasium, with Bleachers, Storage, Restrooms and Press Box
- Second Gymnasium
- Aerobics / Dance Studio
- 35 Meter pool & diving complex
- Aquatics Team Room and Storage
- Aquatics Locker and Showers
- Wrestling Room
- Fitness Center / Weight Room
- Common Training Treatment Room
- PE Classroom
- Boys, Girls and Auxiliary PE Locker / Dressing Areas
- Shower Areas
- Home and Visiting Team Rooms and Lockers
- Athletics / Uniform Storage Room
- Student Toilet Rooms
- PE and Athletics Equipment Storage
- PE Instructors' Offices
- Faculty Restroom / Showers
- PE Department Common Workroom
- Video/Media Suite
- Off-site Coaches Office
- Athletics Director Office
- Custodial Closets

Existing PE facilities deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing PE facilities may be undersized in comparison to the standard or missing some desired components. PAUSD will assess how best to address these differentials as part of its ongoing master planning effort.

The District provides both PE and Athletics programs to its students. Community groups also use facilities and fields.

Goals of the PE program are as follows:

- To provide the appropriate levels of physical education to comply with graduation requirements
- To introduce students to enjoyable lifetime activities
- To enhance sportsmanship
- To improve skill level in competitive sports
- To develop appropriate social behaviors

A typical PE class averages about 40 students with a peak of 45. On average, 5 PE classes are in session at any one time.

Goals of the Athletics program are as follows:

- To enhance sportsmanship
- To improve skill level in competitive sports
- To give students the opportunity to succeed as part of a team

**STANDARD REQUIREMENTS**

**Function/Requirements/Adjacencies**

1. **Main Gym Foyer** (25' x 40' with two restrooms at 15' x 30' each, concessions @ 7.5" x 10', and ticketing/storage @ 7.5' x 10'). Provide attractive areas for trophy cases, small concession area, small ticketing area (with storage), and public restrooms.
2. **Main Gym** (size varies at each school): Typically, 42 to 45 P.E. students use the space at one time. Used for dances and all school meetings as well as athletics. The courts should be laid out to allow for one regulation size basketball court, three regulation volleyball courts, two practice basketball courts, and six to eight badminton courts. Provide the following:
  - a. Hardwood floor
  - b. Portable stage (Portable Stage Storage 10' x 10') at one end with flexible power and lighting, and a PA system to support assemblies, dances, and mixed use of the space
  - c. Press Box, lighting, and sound control booth (7.5' x 10') with a central speaker system
  - d. Two microphone adapters at both end line walls and in the middle of the floor for basketball.
  - e. Drinking fountains and cuspidors located outside of the gym floor area, preferably in the vestibules
  - f. Electrical power, four areas per sideline, and two areas per end line
  - g. Acoustical treatment to reduce noise, reverberation, and echo on ceiling and above wall mats
  - h. Wall mats to protect student as they run into walls
  - i. Acoustical material on walls above 8 ft. is desired to muffle sound
  - j. Storage for portable chairs (10' x 10')
  - k. Three storage rooms for equipment off the gym (10' x 15' each). Each of these spaces should have high ceilings to accommodate volleyball standards and trampolines. Needs double door access.
  - l. Clock
  - m. Two fiberglass-enclosed bulletin boards.
  - n. Six baskets with rectangular backboards
  - o. Scoreboard
  - p. Proper window orientation or window treatment to provide natural daylight and control glare
  - q. Flexible lighting system to eliminate bright spots for the player and illuminate the ceiling
  - r. Bleachers, if required should be fully powered for large sections, or power-assist units for smaller sections.
3. **Second Multi-Purpose Gym/Field House** (120' x 160' – 42 – 45 students): To accommodate four volleyball courts, nine badminton courts, three basketball practice courts and 6-7 wrestling mats (42x42 ea. includes alley space). Gymnastics, wrestling and other meets could take place here. Requires wall and floor finishes, and high ceiling like Large Gym. Provide access to drinking fountain, high ceiling, and good ventilation. Provide electrical outlets on each wall and within floor for scoreboard controls.
4. **Aerobics/Dance Studio** (50' x 100' - 42 – 45 students): Aerobics and dance activities as well as cheerleading and drill team. Resilient wood floor, high ceiling, and walls with a ballet bar and mirrors along one wall are required. Provide a lockable, built-in cabinet for the stereo systems and storage for records and tapes. Provide access to drinking fountain, two fiberglass-enclosed bulletin boards, one wall with tackable wall surface, and one wall with 16' of whiteboard. Provide electrical outlets on each wall.
5. **Wrestling** (42' x 84' minimum for two mats (60' x 80' is desired) – 42 – 45 students/class; 40 – 60 for team): Wrestling is taught year-round. Moving mats is a real problem for Wrestling so Wrestling should be adjacent to the Gym where competitions are held. Size room to accommodate wrestling mats (32' x 32' with 5-foot mat lane). If large enough, this space could also be used for Cheerleading, Aerobics and Dance if a separate Mat Storage Room (sized to accommodate required mats rolled-up) is provided.
6. **Fitness Center/Weight Room** (80' x 80' - 42 – 45 students): a wide range of students could use this space. Flooring should be rubber matting. Provide mats for floor exercises, weight benches, access to drinking fountain, two fiberglass-enclosed bulletin boards, one wall with tackable wall surface, one wall with 16' of whiteboard, good ventilation and good lighting. Fitness center can be separate from weight room (preferred) and allow for playing music

or videos, include a monitor and room for a class of 40. Provide a variety of aerobic machines, including cycles, rowing machines or treadmills. Provide outlets along each wall.

7. **Common Training Room** (32 students): Provide a common Training Room with outside access from the Boy's and Girl's Locker Rooms with two taping tables and two ice machines.
8. **PE Classroom** Also see Special Requirements for PE Classroom below for specific requirements. Locate adjacent to athletic facilities for use as a space for meetings, showing films, discussing sports medicine, nutrition, and other classes. Include large tables for physical therapy and sports medicine classes.
9. **Locker Rooms** (Separate Male and Female facilities in each category below). Showers and lockers should be accessible from indoor recreational areas and playing fields. Floors of wet areas should be surfaced with non-slip ceramic tile or monolithic (epoxy) surfacing materials, and should be sloped and equipped with floor drains along the perimeter of the room

While separate binary locker rooms are required, layout and design of locker rooms should reflect the District's desire to accommodate all-gender student's needs. While supervision is important, areas should be provided and designed to allow those with varying gender sensitivities to use the facility in an equitable manner with some provisions for discretion, such as curtains or partitions. Circulation from some lockers to shower and restroom facilities should also allow more privacy if desired.

In addition, an auxiliary locker room space ~~can~~ should be provided with separate space for lockers, changing area, shower stalls and restrooms that provide adequate privacy for students that do not feel comfortable using binary locker room facilities. Space should be provided for up to six students to use during a class period. Entrances and exits should be discrete wherever possible and out of view from other locker areas.

- a. **Entry Vestibule** (2 @ 7.5' x 10' ea. for boys and girls): Provide privacy vestibule entries to the locker room area. Include 3'x5' whiteboard, fiberglass-surfaced bulletin boards, and additional tackable surface.
- b. **Locker / Dressing Area** (50' x 50' ea.) For Boys & Girls, 2 types of lockers are desired:
  - ◆ Small vented 12"x12" box lockers for gym gear are too small. Larger 12"x36" lockers for storing clothes, backpacks during gym as well as P.E. gear. Lockers should be lower than they are now to improve visibility for staff. Need about 500 for girls and 500 for boys.
  - ◆ Largest lockers ½ size 12"x42" for athletic team members. Provide 200 Team lockers organized by team (see Team Rooms below).
  - ◆ Disabled access lockers in numbers and distribution as required by the Americans with Disabilities Act (ADA).
  - ◆ Smaller area for all gender students with direct but modest access to shower and restroom facilities.

Provide drinking fountains.

- c. **Team Room** (30' x 32.5' each - verify at start of design): Team lockers should be clustered together by team and separated from other lockers. Provide access to common student showers and restrooms. Include four electrical power outlets, tackable surface, and a chalk-talk area for coaching discussion, with bench seating and a 4' x 8' Markerboard.
- d. **Athletics/Uniform Storage Cages** (12.5' x 40' each, located as near as possible each sports venue): Provide secure access to the Team Rooms with a counter and Dutch door for issuing uniforms to students. Provide fifteen each (30 total) large, locking storage cabinets with adjustable shelving to store equipment for each sport. Include a washer and dryer if space / funds are available.
- e. **Shower Area** (15' x 35' ea.): A maximum of 16 showerheads is required in each Shower Area. Provide an ADA shower cubicle. Students provide their own towels, so no towel storage, distribution, or delivery area is needed. All temperature & timing should be centrally controlled. Shower locations should provide some modesty separation for all gender students.
- f. **Student Toilet Rooms:** Provide restrooms off each locker room with a minimum of four water closets (2 WCs, 2 urinals for boys) and four sinks. Include mirrors over the sinks and electric hand dryers. Provide a shelf in the Girls Restroom.

- g. **PE Instructors' Offices** (12.5' x 15' each): Investigate a raised floor concept to facilitate supervision of locker and shower areas (must meet ADA requirements for accessibility). Provide four instructor stations and two coaches desks (women need four stations in total) including a telephone, space for computer, printer, upper adjustable shelving, 4' x 4' light board, three 6' bookshelves, four 2-drawer file cabinets, tackable wall surface and a clock.
  - h. **Faculty Restroom/Shower** (10' x 25' each): Provide restroom, single stall showers and dressing facilities for instructors and coaches. Female staff needs two showers, two toilets, two sinks and twenty-four lockers. Male staff needs two showers, one toilet, one urinal, two sinks and twenty-four lockers (verify at start of design).
  - i. **Custodian** (5' x 7' each): Provide floor sinks with hot and cold water.
9. **PE Equipment Storage** (12.5' x 20' ea.): Provide separate storage (caged) for P.E. and Athletics. Provide both interior and exterior access. Equipment should be stored close to where PE teachers teach. Equipment will be issued to students from a counter. Storage includes 12 lockable cabinets, accesses by double doors. Provide hooks for hanging bags and a countertop for electric ball pumps. Also provide Equipment Storage near fields.
10. **PE Department Workroom** (12.5' x 15'): For all staff and coaches. Similar to other departmental Staff Workrooms.
11. **Visiting Team Room** (30' x 32' verify at start of design): Space with a white board/chalk board

### **SPECIAL REQUIREMENTS**

1. Isolate Physical Education facilities from classrooms where noise would be distracting
2. Safety of users is a vital concern. Non-slip floors and non-abrasive wall surfaces should be provided. No sharp edges and corners should be exposed.
3. Attention should be paid to the durability of materials used on surfaces and furnishings.
4. Proper acoustics are vital to reduce noise, reverberation, and echo.
5. High volume ventilation needs should be properly addressed in all areas. Odor control should also be considered.
6. Lighting will require special attention to ensure installation of suitable fixtures; they should be recessed or shielded and adequate in terms of quality, durability, and area of illumination.
7. Windows in gymnasiums should be elevated and protected.
8. Communication systems should be considered where needed.
9. Public restroom facilities and equipment storage should be provided near fields.
10. Consider how the community will use facilities for recreation when not in use by the school. Provide separate, lockable fenced areas if public access is not desired for the space.
11. Consider provisions for visiting teams to separate visiting team dressing areas from home team

#### **1. PE Classroom**

- **Size:** Approximately 1200 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction 10 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

#### **Architectural Finish**

- **Floors:** Carpet. Include resilient floor insets at classroom entries and adjacent to sink counters/anticipated wet areas.
- **Walls:** Painted gypsum board. Color selections shall be in accordance with District Standard color palette for the school.
- **Ceiling:** Lay-in or glue-up acoustical tile is preferred. Should have reflective properties appropriate for indirect lighting.
- **Sun Control:** Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use

#### **Casework**

- 16 linear feet minimum of base and wall cabinets should be provided. Base cabinet portion of cabinet to be 2'-6" high and include an ADA compliant sink. Base cabinet portion to have one set of drawers capable of storing 24" by 36"

paper. Remaining base cabinets to have doors with 1 adjustable shelf per cabinet segment behind them. Upper portions of cabinet to have 3 adjustable shelves per cabinet segment. Countertops should have bull-nose edges, and

- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

#### **Specialties**

- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

#### **Mechanical Electrical and Plumbing**

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide an ADA compliant sink with accessible drinking fountain incorporated into sink.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

#### **Technology**

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

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**OVERVIEW:**

Existing Restrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Student and staff restrooms will be added as needed to comply with Uniform Plumbing Code (UPC) requirements with accessibility following the best practices of universal design principles.

**GENERAL DESIGN CONCEPTS:**

- **All Gender Restrooms:** The District is increasingly moving toward incorporating restrooms that will accommodate the needs of all gender students and staff on all their campuses. Design principles include the following:
  - No urinals, all water closets
  - Full height toilet partitions where possible
  - Sinks/Lavatories should be grouped and preferably in location easily supervised. They can be located outside the room if desired.
  - Providing restrooms in groups of two, not exceeding three stalls each, will provide future flexibility if the District ever wants to go back to more traditional restroom layout.
- **Daylighting:** Where possible, restrooms should be designed to take full advantage of natural daylighting, using windows, clerestories, or skylights as appropriate. Window placement should be carefully considered to prevent inappropriate views into restroom facilities.
- **Covered Walkways:** Connect restrooms to other buildings via covered walkways and / or extended overhangs.
- **Sustainability and Environment:** : For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Two-Story Construction:** Provide student and staff restrooms on all floors of any multi-story buildings.
- **ADA Compliance:** Design and distribute all newly constructed and modernized restrooms to follow the Americans with Disabilities Act (ADA).
- **Ancillary Space(s):**
  1. Storage/Janitorial: Provide storage rooms nearby for restroom and cleaning supplies.
- **Adjacencies:**
  1. Distribute restrooms at multiple locations around campus to minimize travel time and comply with ADA.
  2. Locate storage/janitorial room adjacent to restrooms for ease of replenishing supplies.

**PHYSICAL REQUIREMENTS:**

- **Restroom Size:** All gender restroom requirements may encourage multiple single occupancy restrooms instead of multiple fixture restrooms.
- **Ceiling Height:** Ceiling height to remain as is in existing restrooms. Minimum ceiling height for new construction with flat ceilings is 10'-0". New restrooms with sloped ceilings may start with a 9'-0" plate height. Ceiling configuration in new construction should allow for daylighting into interior spaces if possible.
- **Doors:** Provide (1) 3'-0" wide entry / exit door per restroom. Provide steel doors for all exterior doors. Provide louver or undercut for ventilation.

▪ **Architectural Fit and Finish:**

- Floors: Floor finishes in existing student restrooms to remain if feasible. New student restrooms to have epoxy flooring. Install epoxy or other resilient flooring in staff restrooms. Coordinate with standard color palette for each school. Review second-story tile flooring details carefully for waterproofing issues.
- Walls: Wall finishes in existing restrooms to remain if feasible. New restrooms to have ceramic tile to approximately 7'-2" H (align with top of door frames). Painted gypsum board above. Coordinate with standard color palette for each school.
- Ceiling: Painted gypsum board ceilings, typical through out.
- Doors and Frames: painted.

**Specialties:**

- Restroom accessories: See PAUSD Technical Standards for accessories to be provided.
  - Toilet partitions: See PAUSD Technical Standards for type and materials of partitions. Take special care to ensure privacy is maintained.
  - Mirrors: Provide (1) mirror in all single occupancy restrooms. Provide (1) mirror for each lavatory in multiple occupant staff restrooms.
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**Mechanical:**

- Heating: Provide for staff restrooms only.
- Air Conditioning: Air conditioning will not be provided in student or staff restrooms.
- Exhaust Fans: Provide adequate exhaust capability as needed to meet air change requirements.

**Plumbing:**

- Hot water: Provide hot water at staff and nurse's station restrooms only.
- Hose bibs: Provide (1) hose bib at all multiple occupant restrooms.
- Floor drains: Provide (1) floor drain at all multiple occupant restrooms. Slope floors to drain where feasible.
- See PAUSD Technical Standards for specific toilet, urinal, and lavatory fixtures.

**Lighting:**

- Lighting Level: Per code
  - Light Type: LED
  - Title 24 Energy: Motion sensor to turn on/off lights. Ceiling mounted in boys/girls' rooms; wall mounted in staff.
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