

Architectural Outline Specifications

CONSTRUCTION ASSEMBLIES DESCRIPTION

EXTERIOR WALLS:

– Masonry Veneer on CFMF Backup

- 4" Nominal Brick (Clay Masonry), standard modular, one type
- Masonry Veneer Anchors
- Air Space
- 4" Rigid Insulation
- Fluid Applied Membrane Air & Vapor Barrier
- 5/8" Gyp. Sheathing
- 6" CFMF
- 5/8" GWB

– Masonry Veneer on Masonry Backup

- 4" Nominal Ground face (Masonry), standard modular, one type
- Masonry Veneer Anchors
- Air Space
- 4" Rigid Insulation
- Fluid Applied Membrane Air & Vapor Barrier
- 8" CMU

– Stone Veneer on CFMF Backup

- 4" Nominal Stone (Natural), standard modular system of varying size stones
- Masonry Veneer Anchors
- Air Space
- 4" Rigid Insulation
- Fluid Applied Membrane Air & Vapor Barrier
- 5/8" Gyp. Sheathing
- 6" CFMF
- 5/8" GWB

– Metal Panel Rainscreen on CFMF Backup

- Metal Composite Wall Panel fastened to sub-framing (Dry Joint)
 - Type 1: Aluminum-faced Composite Panel
 - Type 2: Formed metal ribbed panels
- Fabric Scrim for Visual Barrier
- 5" Insulation on Z-furring
- Air/Vapor Barrier
- 5/8" Exterior Sheathing
- 6" CFMF
- 5/8" GWB

– Exterior Concrete Wall Panel (Taktl) on CFMF Backup

- Architectural Precast Concrete Panels face anchored to sub-framing
- Panel Anchors
- 5" Insulation on Z-furring
- Air/Vapor Barrier
- 5/8" Exterior Sheathing
- 6" CFMF
- 5/8" GWB

– Curtain Wall and Storefront (e.g., EFCO 5600 Thermal Curtain Wall 1600 and Series 403X Thermal Storefront with medium stile heavy duty entrances. All frames to have multi-coat superior performing organic coatings finish system, color: black.

EXTERIOR CANOPY:

Metal panel on CFMF furring, match metal wall cladding material

ROOF:

Galvanized metal roof deck
Rigid polyisocyanurate foam insulation, R-30 minimum overall average. Tapered as required for flat roof areas to slope to drains.
TPO membrane roof system, Energy Star compliant, Cool Roof compliant.
Walkway pads
Prefinished metal gravel stops and flashings.
Prefinished aluminum panel rooftop equipment screens on galvanized steel framing.

FLOOR CONSTRUCTION:

Composite metal deck consisting of 3" metal deck with 6 1/4" light weight concrete, overall thickness 6 1/4".

INTERIOR PARTITIONS:

Abuse-resistant drywall on metal studs at corridors and classrooms.
Type X drywall on metal studs at all other spaces.

CONSTRUCTION MATERIALS DESCRIPTION

DIVISION 01 – GENERAL REQUIREMENTS

Section 01 1000 Summary

The building shall comply with the CHPS requirements of Rhode Island

Section 01 2100 Allowances TBD

DIVISION 02 – EXISTING CONDITIONS

Section 02 4110 Selective Demolition

Demolition of existing building – see structural and architectural demolition drawings for more information.

DIVISION 03 – CONCRETE

Section 03 3000 Cast-In-Place Concrete

1. Steel Reinforcement:
 - a. Reinforcing Bars: Deformed.
 - b. Welded Wire Reinforcement: Plain.
2. Concrete Materials:
 - a. Portland Cement: ASTM C 150, Type I/II, supplement with fly ash or ground granulated blast-furnace slag.
 - b. Aggregate: Normal weight and Lightweight.
 - c. Water.
 - d. Mixing: Ready mixed.
3. Compressive Strength (28 Days):
 - a. Footings: 4000 psi (27.6 MPa).
 - b. Slabs on Grade: 3000 psi (20.7 MPa).
 - c. Suspended Slabs: Lightweight conc: 4000 psi (27.6 MPa).

Section 03 5416 Hydraulic Cement Underlayment

Section includes polymer-modified, self-leveling, hydraulic cement underlayment for application below interior floor coverings

DIVISION 04 - MASONRY

Section 04 2000

Unit Masonry:

Brick and CMU products for various functions:

1. Modular face brick (within 500 miles) installed in a running bond
2. Plain CMU – ASTM C90 normal weight for exterior use and light weight for interior use, fire rated as required, to be used as noted on the drawings
3. Custom colored Portland/lime cement mortar for use on all exposed exterior and interior masonry.
4. Anchors, reinforcing, ties and accessories as required, by Hohmann and Bernard (<http://www.h-b.com/home/index>).
5. Cavity Insulation – Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV, with an aged thermal resistance (R-value) for 1-inch (25-mm) thickness of 5.0 deg F x h x sq. ft./Btu at 75 deg F at 5 years; closed-cell product extruded with an integral skin, 25 psi (173 kPa), with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively.
6. Though wall flashing:
 - a. 2 piece flashing to be self-adhering stainless steel fabric flashing - Hohmann and Bernard "Mighty Flash SA" or equal and 3" preformed 26 gage stainless steel drip flashing with hemmed drip edge.
 - b. Stainless steel termination bar with preformed sealant receiver, anchor 8" o.c.
 - c. Preformed 26 gage stainless steel inside and outside corners
7. Air / Moisture / Vapor barriers – refer to division 7.
8. SUSTAINABILITY REQUIREMENTS
 - a. LEED for Schools:
 - i. Recycled content.
 - ii. Regional materials.
9. QUALITY ASSURANCE
 - a. [Sample panels for exposed unit masonry construction]
[Mockups of typical wall areas].
10. PERFORMANCE REQUIREMENTS
 - a. Net-Area Compressive Strengths of [Structural] Unit Masonry:
As indicated.
 - b. Determine net-area compressive strength of masonry by unit-strength method.

11. MATERIALS
 - a. Concrete Masonry Units (CMUs):
 - i. Units made with integral water repellent [for exposed units] [and] [where indicated].
 - ii. CMUs: [Lightweight] [Medium weight] [Normal weight].
 - b. Concrete and Masonry Lintels: Precast units matching CMUs, precast or formed-in-place concrete or prefabricated or built-in-place CMU lintels.
 - c. Reinforcement: Uncoated-steel reinforcing bars.
 - d. Masonry-Joint Reinforcement:
 - i. Interior Walls: Mill galvanized, carbon steel.
 - e. Exterior Walls: Hot-dip galvanized.
Ties and Anchors: Galvanized [Mill galvanized in interior walls].
 - i. Individual wire ties.
 - ii. Adjustable anchors for connecting to structural steel framing.
 - iii. Adjustable anchors for connecting to concrete.
 - iv. Partition top anchors.
 - f. Embedded Flashing:
 - i. All Flashing: Stainless steel or Copper.
 - g. Weep/Vent Holes: Refer to Architectural Narrative.
 - h. Mortar:
 - i. Portland cement-lime, masonry cement or mortar cement mortar unless otherwise indicated.
12. INSTALLATION
 - a. Bond Pattern: [Running bond or as indicated.]
 - b. Clean masonry waste recycled as fill material.
13. FIELD QUALITY CONTROL
 - a. Testing Agency: Owner engaged.
 - b. Inspections: Special inspections in accordance with [Level 2] [Level 3] in TMS 402.
 - c. Testing: One set of tests[for each 5000 sq. ft. (464 sq. m) of wall area].

DIVISION 05 - METALS

Section 05 1200

Structural Steel Framing

1. FABRICATOR QUALIFICATIONS: AISC-Certified Plant, Category BU: Certified Building Fabricator
2. RECYCLED CONTENT OF STEEL: Postconsumer plus one-half of pre-consumer recycled content not less than 25 percent to 50 percent.
3. STRUCTURAL-STEEL SHAPES: W-shapes channels angles plate and bar cold-formed hollow structural sections and steel pipe.
4. BOLTS, NUTS, AND WASHERS: High strength and Tension control, high strength.
5. ANCHOR RODS: Unheaded and Headed rods, nuts, plate washers, and washers.
6. CONNECTORS: Shear connectors, threaded rods, clevises, turnbuckles, eye bolts and nuts and sleeve nuts.
7. PRIMER: Fabricator's standard, nonasphaltic.
 - a. Primers comply with LEED for Schools Credit IEQ 4.
8. GROUT: Nonmetallic, shrinkage resistant.
9. TESTING AGENCY: Owner engaged.

Section 05 2100 Steel Joists Framing

1. LH & K-SERIES STEEL JOISTS FOR ROOF FRAMING.
 - a. End Arrangement: Underslung
 - b. Top-Chord Arrangement: Pitched, two ways.
2. PRIMER: SSPC-Paint 15.
 - a. Primer complies with LEED for Schools Credit EQ 4.
3. BOLTS: High-strength carbon steel, Plain, uncoated.
4. TESTING OF CONNECTIONS BY OWNER-ENGAGED AGENCY

Section 05 5113

Metal Pan Stairs:

1. Concrete filled steel pan stairs with resilient stair treads and risers.
2. Resilient coving on landings
3. Steel picket guardrails and handrails.
4. All exposed steel surfaces to receive field painted finish.

Section 05 3100

Steel Decking

1. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of pre-consumer recycled content not less than 25 percent.
2. Low-Emitting Materials: Primer complies with LEED for Schools Credit EQ 4.
3. Acoustical Roof Deck: Galvanized steel sheet.
4. Roof Deck: Galvanized steel sheet.
5. Composite Floor Deck: Galvanized steel sheet.

6. Accessories: pour stops, girder fillers, column closures, end closures, Z-closures, cover plates, recessed sump pans and flat sump plates.
7. Testing Agency: Owner engaged.

Section 05 4000 Cold Formed Metal Framing

1. Structural Performance:
 - a. Dead Loads: Use actual weights of material and construction.
 - b. Live Loads: Per codes and standards above.
 - c. Roof Loads: Per codes and standards above.
 - d. Snow Loads: Per codes and standards above.
 - e. Wind Loads: Per codes and standards above.
 - f. Seismic Loads: Per codes and standards above.
 - g. Deflection Limits: [1/360] or [1/600].
2. Engineering design of cold-formed metal framing by Contractor.
3. Design Standards: AISI S100 and AISI S200.
4. Recycled Content of Steel: Postconsumer recycled content plus one-half of pre-consumer recycled content not less than 25 percent.
5. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, metallic coated.
6. Exterior Non-Load-Bearing Wall Framing: Standard C-shaped, punched steel studs and U-shaped, unpunched track.
 - a. Minimum Steel Thickness: 0.0538 inch (1.37 mm).
 - b. Vertical deflection clips, Single deflection track and Drift clips.
 - c. Exterior Non-Load-Bearing Wall Stud Spacing: 12 inches (305 mm) or 16 inches (406 mm).
7. Framing Accessories: Supplementary framing, bracing, bridging, and solid blocking, web stiffeners, anchor clips, end clips, foundation clips, gusset plates, stud kickers and knee braces, joist hangers and end closures, hole reinforcing plates, and backer plates.
8. Fasten framing by screw fastening.
9. Testing: By Owner-engaged agency.

DIVISION 06 - WOOD AND PLASTICS

Section 06 1050

Miscellaneous Rough Carpentry

1. Wood nailers and blocking, fire retardant for interior use, preservative treated for exterior use.
2. Roof Blocking; preservative treated.
3. Plywood backing panels and miscellaneous concealed plywood

Section 06 1600

Sheathing:

1. 5/8" glass mat gypsum sheathing for use at exterior wall systems and masonry veneer infill construction.
2. Type X fire rated to achieve exterior ratings where required.
3. 3/4" exterior grade fire retardant treated plywood at miscellaneous infill areas.

Section 06 4115

Plastic-Laminate-Clad Architectural Cabinets:

Custom and modular cabinets and countertops conforming to AWI Section 400, division 400B and AWI Section 1600, division 1600B with premium-grade high pressure decorative high-pressure plastic laminate cladding selected by Architect. Solid surfacing material provided at countertops, all locations with sinks and all window sills. Rakks Wall brackets for support of plastic laminate or solid surface counter work surfaces.

Section 06 8316

Fiberglass Reinforced Paneling

Sanitary wall paneling for foodservice spaces.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section 07 1113

Bituminous Dampproofing

This Section includes cold-applied, emulsified-asphalt dampproofing applied to below-grade concrete foundation walls where opposite side of wall faces occupied or occupiable space or where indicated. Dampproofing is not required on below grade walls with grade on the both sides

Section 07 1616

Crystalline Waterproofing

Section includes crystalline waterproofing for negative-side application to elevator hoistway pit walls and floor and elevator hoistway sump pit

Section 07 2100

Thermal Insulation:

Provide building insulation of applicable type for the following applications:

1. Perimeter Insulation - Extruded polystyrene insulation equivalent to styrofoam SM by Dow Chemical Co.. inward below slab and down vertical leg of footing at all new walls and infill walls with new foundation work. 2" thick R-10. Refer to drawings.
2. Exterior masonry veneer/metal stud backup cavity walls: rigid extruded polystyrene (XPS) foam insulation. 4" thick R-20.
3. Low slope roofing insulation - see membrane roofing section.

Section 07 2616

Under-Slab Vapor Retarder

1. Section Includes: Vapor Retarder, seam tape, mastic, pipe boots, detail strip for installation under concrete slabs
2. Basis of Design: Stego Wrap manufactured by Stego Industries, LLC, tel. (877) 464-7834, www.stegoindustries.com. Or Viper Vaporcheck II 15 Mil manufactured by Insulation Solutions Inc., tel. (866) 698-6562, www.viper2.com

Section 07 2726

Fluid Applied Membrane Air Barriers:

1. Henry Company; "Air-Bloc® 32 MR" impermeable air / moisture barrier (fire retardant)
2. Henry Company; "Air-Bloc® 31 MR" vapor permeable air / moisture barrier (fire retardant)

Section 07 4213

Metal Wall Panels

1. Formed metal composite metal (MCM) wall panel system for exterior applications.
 - a. Wall Cladding – Rainscreen.
 - i. Type 1: Aluminum-faced composite metal (ACM) panel with fire-resistant core. Basis-of-Design Products: 3A Composites; Alucobond Plus Wall Panels.
 - ii. Type 2: Formed metal ribbed panel. Basis-of-design Morin, Integrity X-12
 - b. Roof screens- mounted directly to structural framing.
2. Basis-of-Design Products: Alucobond; ACM Rainscreen Wall Panels.

Section 07 4243

High Performance Concrete Wall Panels

1. High performance concrete wall panel system for exterior applications.
2. Basis-of-Design Products: TAKTL; Style and profile to be chosen from manufacturers range of products; Custom Colored.

Section 07 5423

Thermoplastic Polyolefin (TPO) Roofing:

Fully adhered TPO roofing system by Carlisle (www.carlisle-syntec.com) with polyisocyanurate roofing insulation. Minimum insulation thickness of 5" – 6" to achieve minimum R30. Minimum ¼" per foot tapered insulation systems as required. Provide ½" Densdeck coverboard. Installed roofing system must conform to ANSI/SPRI requirements. Provide 20-year manufacturer warranty. Provide walkway pads from roof hatch to and around all roof top equipment.

Provide TPO with applied ribs (to look like standing seam) on sloped roof as noted on drawings.

Section 07 6200

Sheet Metal Flashing and Trim:

All metal flashing work exposed to weather to be dead soft, fully annealed stainless steel, dull finish (No. 4). All metal flashing within the masonry cavity to be stainless steel fabric flashing - Hohmann and Bernard "Mighty Flash SA" or equal. See 04 2000 for additional information regarding cavity flashing.

Section 07 7100

Roof Specialties:

Metal Era (www.metalera.com) fascias and copings as required. Cap material to be pre-finished aluminum to be coated with high performance, 2-coat fluoropolymer organic finish with custom color to be selected by Architect. Assembly must conform to ANSI/SPRI requirements.

Section 07 7200

Roof Accessories

1. Section includes: Roof hatch with Safety Railing System and Ladder-Assist Post
2. Preformed flashing sleeves.

Section 07 8100

Applied Fireproofing:

Cementitious sprayed-on fireproofing for protection of primary steel frame members at building interior, as required by Construction Type.

Section 07 8413

Firestopping:

Firestopping materials for new penetrations at rated walls, and existing non-compliant penetrations by Hilti Corp. (<http://www.us.hilti.com/holus/>).

Section 07 9200

Joint Sealants

Interior and exterior joint sealants for sealing door and window perimeter joints, joints between masonry and gypsum wallboard, plumbing fixtures, and tile floor control joints. At least 50% of interior sealants are to be composed of low VOC emitting materials.

DIVISION 08 - OPENINGS

Section 08 1113

Hollow Metal (HM) Doors and Frames:

Custom HM doors and frames by Republic or equal. Hollow metal frames to be used for all interior wood and steel doors. Frames to be heavy gauge, fully welded, and factory primed for field painting. Fire rated where required.

Use 7'-2" frames with 2" head at exterior doors in masonry and 7' frames with 2" head at interior doors

Hollow metal frames to be used for all interior windows and door sidelites.

Section 08 1416

Flush Wood Doors:

AWI Premium Grade, 5-ply, bonded core, factory finished wood doors. Doors to be factory machined to receive hardware. Wood veneer to be sliced white birch.

Wood doors between class room shall be acoustically rated STC 40 with drop seals and acoustical gaskets

Wood doors to corridors do not need acoustical rating

Section 08 3113

Access Doors and Frames:

Flush lockable units for both walls and ceilings as required for access to MEP equipment.

Section 08 4113

Aluminum-Framed Entrances and Storefronts:

EFCO 403X Thermally Broken Storefront, or equal, aluminum framed storefront system with Medium stile entrance doors, or equal, for use at all exterior entrances and at all exterior window openings. All aluminum components in system to have multi-coat superior performing organic coatings finish system, color: black. Provide mullion snap-covers selected from manufacturers standard array of extrusions.

Section 08 4413

Glazed Aluminum Curtainwall:

EFCO 5600 Xtherm Curtainwall high thermal performance curtainwall system, or equal. All aluminum components to receive multi-coat superior performing organic coatings finish system, color: black.

Provide mullion snap-covers selected from manufacturers standard array of extrusions to be used in some area as shown on drawings.

Section 08 7100

Door Hardware:

Institutional grade door hardware including:

1. Exit devices – heavy duty
2. Door closers – heavy duty
3. Locksets – heavy duty mortise
4. Hold-open devices tied to fire alarm and security.
5. Acoustics: sound-seal gaskets, thresholds and door sweeps at classrooms and other core learning spaces.
6. Access control at entrance and main vestibule doors

Section 08 7113 Automatic Door Operators

1. Auto door operator at all entrance doors

Section 08 8000 Glazing:

Glass and glazing including:

1. Exterior Vision Glass - Low-E Insulating-Glass Units, basis-of-design product PPG Solarban 70 XL Solar Control Low-E Insulating Glass
2. Exterior Spandrel Glass – Low-E insulating glass units, basis-of-design PPG Solarban 70 XL Solar Control Low-E, with an opacifier (ceramic or silicone coating) on #4 surface.
3. FireLite Plus laminated ceramic glazing material by Nippon Glass (www.fireglass.com) for use at all fire
4. Laminated polycarbonate security glazing (bullet resistant) at main entrance vestibule.
5. Other glass types as required including annealed float glass, heat-treated float glass, pyrolytic-coated float glass, laminated glass for acoustics and ceramic-coated translucent glass.
6. Decorative film for application to interior windows.

Section 08 9119 Louvers and Vents:

Aluminum drainable fixed blade louvers with insect screens by Construction Specialties. All aluminum components in system to be coated with high performance, 2-coat fluoropolymer organic finish with custom color to be selected by Architect. Include screening.

DIVISION 09 - FINISHES

Section 09 2216

Non-Structural Metal Framing:

Steel framing for gypsum board furring and partitions.
Shaft wall 20 ga 3 ½" studs at 16" oc min

Section 09 2900

Gypsum Board:

Full array of gypsum products as required including:

1. 5/8" Type X: ASTM C 1396/C 1396M tapered edge at soffits, ceilings and office walls.
2. 5/8" abuse-resistant at walls in rooms with student occupancy and in corridors.
3. 5/8" moisture resistant in any area with plumbing fixtures.
4. Tile backing board: Cementitious Backer Units: ANSI A118.9 and ASTM C 1288 or ASTM C 1325, with manufacturer's standard edges

Section 09 3000

Tiling:

Ceramic and Porcelain Tile:

1. Glossy Ceramic Tile full height at all walls in all group bathrooms. Full height at water fountain alcoves. Various sizes and colors to be used to create patterns.
2. Glossy Ceramic Tile full height at all wet walls in all single user bathrooms. Various sizes and colors to be used to create patterns.
3. All grout to be epoxy based.
4. Metal finish trim at all exterior corners from floor to ceiling, by Schluter, or equal.

Section 09 5113

Acoustical Panel Ceilings:

Suspended acoustical panels;

1. 4'x4' and 2'x6' APC tiles with 9/16" Grid and minimum NRC of .95 at Media Center, Cafeteria.
2. 2'x4' APC tiles with 9/16" Grid, minimum NRC of .75 and CAC of 35 at Admin Areas, Corridors, Classrooms, Offices, Faculty Rooms, Studios, Art, OTPT.
3. 2'x4' tiles with 9/16" Grid, minimum NRC of .60 and CAC of 35 at Back of House areas, storage rooms and misc. non-occupied rooms.
4. 2'x4' Scrubbable APC tiles with 9/16" Grid, minimum NRC of .70 and CAC of 35 at Kitchen/Food Prep and Health Suite.
5. 2'x2' Pyramid Diffusers, along with standard 2'x4' APC tiles with 9/16" Grid at Band/Music rooms.
6. All ceiling products to be composed of low VOC emitting materials.

Section 09 5133

Acoustical Clouds:

Suspended acoustic 7/8" fiberglass premanufactured clouds, various custom sizes of standard shapes, hung from standard panel ceiling system, with minimum NRC of .90 at Cafeteria, Main Lobby and various locations along Corridors.

Section 09 5426

Linear Wood Ceiling

Suspended wood slat grille ceiling panels at auditorium, 12" x 96", with accessories – dowels, backers, clips, end caps – and 15/16" suspended grid system. Armstrong "Woodworks Grille" or similar system.

Section 09 6466

Wood Athletic Flooring:

For use at both gymnasium and platform.

Flooring shall be Eco-Friendly 25/32" (20mm) thick x 2 1/2" (63mm) facewidth; 2-1/4" (57mm) facewidth available at mill discretion; 2nd & Better grade; Factory Sanded Advantage™ XL (Non-Factory Sanded maple available as contractor option); T&G and EM, KD Northern Hard Maple; Continuous Strip XLplus™ Flooring as manufactured by Robbins and graded in accordance with MFMA-FJ rules. Flooring will have XLplus™ technology to reduce or eliminate routine spacing for expansion. Similar to Robbins Eclipse.

Section 09 6500

Resilient Flooring:

1. Linoleum sheet flooring with a pattern. 2.5mm homogenous wear layer, top sealer, jute backing and seam sealer. Provide adhesive tolerant to 100% RH. To be utilized in primary teaching areas, and all administrative and faculty spaces. Should not require stripping or waxing for maintenance. Provide 4" rubber base. Similar to Forbo Marmoleum Sheet Flooring.
2. Enclosed stairways to utilize rubber tile flooring with hammered texture at stair landings with Rubber stair tread/riser system with hammered texture and imbedded visual strip at stairs.
3. Ramps to have rubber sheet flooring with hammered texture.
4. Cleat Resistant Rubber Tile Flooring to be used in locker rooms and back of house corridors. Dual durometer layers composed of vulcanized 100% synthetic and natural rubber and is designed for high impact areas and is spike resistant. 24"x24" tile in 3/8" thickness. Similar to Tarkett Triumph Multi-Functional and Sport Rubber Tile.
5. All resilient flooring and associated adhesives are to be low VOC emitting materials.

Section 09 6513

Resilient Base and Accessories:

1. 4" h thermoset rubber base roll goods (120' coil), with thru color, to be installed with carpeting, resilient flooring and sealed concrete. Various colors to coordinate with flooring.
2. Rubber transitions to coordinate with change of floor heights to be provided at all locations where flooring material has a thickness greater than ¼" with adjacent floor material. Various colors to coordinate with flooring.

Section 09 6700

Fluid Applied Flooring:

Resinous poured flooring, slip resistant finish with integral 6" base at all toilet rooms, Kitchen, Seryery, Group and Single user restrooms. Similar to Sherwin Williams Stonhard.

Section 09 6813

Tile Carpeting:

1. Resilient Modular carpet tiles to be utilized at Administrative Areas, Offices, Media Center, Conference Rooms, Music/Band Rooms, and select areas in Learning Commons. Carpet to be Flocked textile tile floor covering, 100% 6.6 nylon fiber wear layer with recycled vinyl cushion backing. With anti-microbial and stain resistant properties, in various sizes and colors to create floor patterns. Manufacturer recommended adhesive installation.
2. Heavy duty/high traffic walk-off mat modular tiles, with glue down installation, to be used at wall to wall at Vestibules and inset in the floor at adjacent Lobbies.
3. All carpets and associated adhesives are to be low VOC emitting materials.

Section 09 7200

Wallcovering:

1. Type II Vinyl Wallcovering utilizing Custom Digital Imagery to be used at accent walls in Lobby, Cafeteria, Media and Corridors. To have applied protective coating for added durability.
2. Writable dry erase markerboard wallcovering, magnetized, .67mm thick, to be utilized in Learning Commons and Media Center.
3. All wallcovering and associated adhesives are to be low VOC emitting materials.

Section 09 8116

Acoustical Blanket Insulation

1. For metal-framed, gypsum wallboard partitions or furring requiring an acoustical rating. See also Section 09 2216.

Section 09 8430

Sound Absorbing Ceiling Units:

1. Fiberglass sound absorbing suspended baffles, custom color, 2" thick, 10"h in varying lengths with minimum NRC of .50 to be provided in Corridors, Media Center, and Cafeteria.

Section 09 8433

Sound Absorbing Wall Units:

2. Fabric wrapped acoustical wall panels, 1" thick with NRC of .85, to be provided, as required per acoustic consultant, in Auditorium, Cafeteria, Media Center, and Music Classroom. Fabric to be custom selection.
3. 3Dimensional felt acoustic tackable panel tiles, minimum of .53" thick with NRC of .50, to be utilized in the Library Media Center. Various sizes and colors to create a pattern.

Section 09 9113

Exterior Painting

1. Exposed steel columns, loose lintels and other exposed steel, primer galvanized metals to be coated – paint new exposed metal surfaces

Section 09 9123

Interior Painting:

1. All interior paint products must be low-VOC or no VOC.
2. Typical field paint to be acrylic latex with eggshell finish at walls and matte finish at ceilings.
3. Epoxy Semi-gloss paint to be used at bathrooms, kitchen/Servery and associated areas, and on all painted metal surfaces.
4. High performance paint coatings to be utilized for painting of all steel handrails, guardrails, columns, and all painted metal components.
5. Dryfall paint at exposed roof/ceiling structural members and exposed utility piping and ducts.

DIVISION 10 - SPECIALTIES

Section 10 1100

Visual Display Surfaces:

Marker boards and Tack boards:

1. Prefabricated porcelain enamel whiteboards, that are magnetic, dry-erase, non-ghosting, framed with aluminum trim and include a tack strip at the top and marker rail at the bottom.
 - a. (2) 96"w x 48"h per classroom/ teaching space., seminar rooms, staff work rooms, Conference Rooms, Media, Music
 - b. (2) 84"w x 48"h per classroom/ teaching space.
 - c. (1) 72"w x 48"h per Administration and Guidance/Health Offices
 - d. (2) 96"w x 48" with music staff lines per Music/Band Room
2. Prefabricated 48"w x 48"h natural linoleum/cork, self-healing tackboards, framed with aluminum trim.
 - a. (2) per classroom and other teaching spaces
 - b. (1) per staff work rooms, administration work rooms, guidance work room
 - c. (2) per Media Center
 - d. (1) per Admin Suite, Health Suite and Athletic Area
3. Bulletin board roll goods, 6mm natural linoleum/cork, self-healing, direct glue to wall, no frame, trim at exposed edges, installed full height and width of accent walls at Corridors and as Backsplash at Admin/Faculty work areas.
4. Visual Display Cases, freestanding, accessible from front and back, with lockable sliding glass doors, shelving, and lighting.

Section 10 1400

Interior Signage:

1. Base sign package to include; molded acrylic signs, design/build services and signage accessories as required.
2. Painted room names, numbers and school logo at corridors.
3. Adhesive numbering for all occupied rooms with exterior windows required for security. To be secured to interior side of window and readable from exterior.

Section 10 2113

Toilet Compartments:

Overhead braced and floor anchored partitions and urinal screens will be solid-polymer panels (HDPE). Full floor to ceiling wall and door panels with integrated privacy zero-sightline construction and vacancy indicator hardware.

Section 10 2123

Cubicle Curtains and Track

Cubicle-curtain tracks and carriers to be utilized at Cot area of Health Suite and at restroom changing tables. Cubicle curtains to be custom selection from textile manufacturer.

Section 10 2800

Toilet Accessories:

Full array of institutional grade, stainless steel toilet room accessories by Bradley in new toilet rooms

(www.bradleycorp.com/prodinfo/accessory/index.htm) including:

1. Double roll toilet paper dispenser
2. Surface mounted soap dispenser
3. Surface mounted paper towel dispenser
4. Surface mounted sanitary dispenser and disposal
5. Wall mirrors
6. Grab bars (per accessibility codes)
7. Janitor Closet Mop Holder and shelf.

Section 10 4416

Fire Extinguisher:

Wall mounted fire extinguishers will be provided at each mechanical room, the kitchen, and any other "hazardous" spaces.

Fire extinguisher/cabinets for general use throughout building, located as required by Fire/Life Safety Code.

Section 10 7516

Ground Set Flagpoles

1. Section includes ground-set flagpoles made from aluminum.
2. Owner-Furnished Material: Flags.

DIVISION 11 - EQUIPMENT

Section 11 3100

Residential Appliances:

Residential refrigerators for faculty/staff break rooms, and for Nurse's suit and Special Education Work/Life Skills Classrooms. All residential appliances must be ADA compliant and Energy Star certified.

Section 11 4000

Foodservice Equipment:

Description: Mobile and stationary commercial foodservice equipment for a full cooking operation (not a warming kitchen).

Functional Requirements: Equipment shall be of the latest design; new and unused, unless indicated otherwise in the Item Specifications, complete with all standard parts for normal operations and including such accessories or materials as may be required to comply with these Specifications.

1. Performance Requirements:
 - a. Electric equipment and accessories shall conform to the standards of the National Electric Manufacturers Association (NEMA), Underwriters Laboratories, Inc. (UL) or Electrical Testing Station (ETS).
 - b. Steam generating equipment and accessories shall conform to the standards of the American Society of Mechanical Engineers (ASME).
 - c. Energy Star - Specified Energy Star rated equipment and appliances shall serve as the standard for all types of equipment and appliances whenever possible.
2. Design Requirements:
 - a. Work shall be in accordance with the governing health, building and safety, and fire protection codes and regulations.
 - b. Standards of the National Sanitation Foundation (NSF) shall serve as guidelines for the work of this Section.
3. Refrigeration:
 - a. Fabricated walk-in rooms
 - b. Refrigerated display cases
 - c. Commercial refrigerators
 - d. Mobile milk coolers
4. Freezers:
 - a. Fabricated walk-in rooms
 - b. Commercial freezers

5. Food Storage Shelving:
 - a. Stainless steel wire
 - b. Open grid polymer mats on enamel steel wire supports
 - c. Aluminum dunnage racks
6. Work Tables and Preparation:
 - a. Stainless steel tables and sinks
 - b. Food slicer
 - c. Food processor
7. Cooking Equipment:
 - a. Ranges
 - b. Ovens
 - c. Kettles
 - d. Steamers
 - e. Braising pans
 - f. Exhaust hood
8. Serving Equipment:
 - a. Drop-in mechanical cold-pans
 - b. Drop-in hot wells
 - c. Food shields
 - d. Stainless steel counters
 - e. Hot holding cabinets
9. Sinks:
 - a. Hand washing sinks
 - b. Three compartment wash sink
 - c. Mop sink
10. Miscellaneous:
 - a. Staff lockers
 - b. Trash bins
 - c. Mobile carts
 - d. Condiment counters
 - e. Mobile cash registers

DIVISION 12 - FURNISHINGS

Section 12 2413

Roller Window Shades:

1. Manually operated Roller shades to be installed on all exterior windows of occupied rooms. Weave to be 1-2% opacity, utilizing Single Roll Shade that will conceal roller and shade band when shade is fully rolled up.
2. Electrically operated shades to be provided at Cafeteria, Auditorium and CTE labs. Standard weave to be 1-2% opacity
3. Shade pocket to be integrated into Acoustic Panel Ceiling System where possible.

DIVISION 22 PLUMBING

See Plumbing & Fire Protection Design and Material Narrative

DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING

See HVAC Design and Material Narrative

DIVISION 26 ELECTRICAL

See Electrical Design and Material Narrative

DIVISION 27 – COMMUNICATIONS

See Building Technology & Security Design and Material Narrative

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

See Building Technology & Security Design and Material Narrative

DIVISION 31 EARTHWORK

See Site Design and Material Narrative

DIVISION 33 UTILITIES

See Site Utility Narrative