STANDARD DESIGN CRITERIA
CHILD DEVELOPMENT CENTERS
FOR CHILDREN AGES 6 WEEKS – 5 YEARS

SMALL 126 CAPACITY
MEDIUM 232 CAPACITY
LARGE 338 CAPACITY

ROOM BY ROOM DESCRIPTIONS

CATEGORY CODE: 74017

February, 2019
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A. GENERAL REQUIREMENTS

1. CRITERIA

- **Army Child & Youth Services (CYS) REVIEW AND APPROVAL.** All facility and playground design, alteration (to include renovation and repairs), and construction projects shall be reviewed and approved by Installation Management Command (IMCOM) G9 CYS. Involvement of IMCOM G9 CYS is required in all phases of the project, to include planning and design.

- **Architectural Barriers Act (ABA).** The entire Child Development Center (CDC) and site must meet all requirements of ABA. This includes spaces such as storage rooms, janitor closets, etc. Water closets and toilet compartments for children shall comply with ABA Advisory 604.9 and associated table. This ABA Advisory is mandatory for CDC facilities. Other special requirements will be provided in the remainder of this document.

- **Army Standard.** The Army Standard and the Army Standard Design Criteria Room by Room Descriptions is mandatory criteria that must be followed. In addition to the criteria in this document, the CDC must comply with relevant sections of the AR 608-10, latest version and with all other applicable Unified Facilities Criteria (UFC). The Army does NOT follow UFC 04-740-14.

- **UFC 4-010-01 Anti-Terrorism Force Protection (ATFP).** The CDC must meet all requirements of the minimum ATFP Standards for Buildings.

- **Centers of Standardization (COS).** The Army Standard for CDC is the minimum mandatory criteria that must be followed. This document, Army Standard Design Criteria Room by Room Descriptions further expands on the requirements of the Army Standard. Deviations not meeting the requirements to the Army Standard or this document requires a waiver. When Host Nation Requirements conflict with the Army Standard, contact the COS in Huntsville, Alabama. The Army Standard for CDC may be found at: [https://mrsi.erdc.dren.mil/cos/hnc/cdc/](https://mrsi.erdc.dren.mil/cos/hnc/cdc/). Information on the waiver process may be found at [https://mrsi.erdc.dren.mil/waiverprocess/](https://mrsi.erdc.dren.mil/waiverprocess/).

- **Technical Instruction (TI) 800-01.** TI 800-01 is an obsolete document and shall not be used in the design or review of a CDC.

- **Caring for Our Children.** Caring for Our Children Health and Safety Guidelines by the American Public Health Association (APHA) and American Academy of Pediatrics (AAP) should be used as a reference guide for Child Development Centers.

2. HAZARDOUS MATERIALS

- **Flammability Codes and Standards.** Use textiles and upholstered components that comply with the applicable interior finish requirements stated in the National Fire Protection Association (NFPA) 101, *Life Safety Code* and any other local, state, or federal standards...
that may apply. See paragraph 7-1 for more information on carpet and upholstery requirements.

- **Radon.** Check the EPA's *Map of Radon Zones* (by state), EPA 402-R-93-071 (available from [http://www.epa.gov/](http://www.epa.gov/)), to determine the radon priority area. Provide passive sub-slab depressurization systems for projects located in Priority Areas No. 1 (predicted average radon level is greater than 4/pCi/L). Change the system to active, if needed, based on follow-up testing. Check the latest editions of the following EPA documents available from the EPA Radon Information Center, (703) 356-5346:

- **Contaminants.** Evaluate the site for potential soil and groundwater contamination. Check with the Environmental Installation Restoration Program and the Underground Storage Tank Program. Also, check previous uses of the site.

- **Lead-Based Paints.** Lead-based paint is prohibited throughout all buildings—interior and exterior, including playground equipment. All painted areas suspected of containing lead (manufactured before 1978) should be tested and managed by the Garrison Department of Public Works (DPW).

- **Asbestos.** Materials containing asbestos are prohibited in new CDC construction. Any asbestos, fiberglass or other friable material that is in a dangerous condition should be encapsulated or abated by a certified contractor and monitored by the Installation Asbestos Management Program (IAMP).

### 3. ARCHITECTURAL

- **Construction.** The Child Development Center shall have a residential scale and feeling, but shall meet commercial construction standards. The building may be rotated or mirrored on the site.

- **Spaces.** Functional spaces, which include all Activity Rooms, Admin Areas, Kitchen, Storage, Lounge and Training Room, may not be reduced from what is shown in this document and the Army Standard without an official waiver.

- **Minimum Floor and Base Construction.** For finish materials refer to the Room Finish Schedule unless additional guidance is provided in the individual space descriptions which follow. Salient characteristics include: shall be easy to clean and maintain, and shall be durable. A base material, appropriate for the flooring material used, is required.

- **Minimum Wall Construction.** Unless additional guidance is provided in the individual space descriptions which follow, salient characteristics include; shall be easy to clean and maintain, and shall be durable. Unless noted otherwise, interior walls between rooms shall be provided with acoustical batt insulation, or other approved system, to obtain a Sound Transmission Class (STC) rating of at least 45.
• **Minimum Ceiling Construction.** Unless additional guidance is provided in the individual space descriptions which follow, salient characteristics include; ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects. Acoustical tile ceilings shall have a minimum Noise Reduction Class (NRC) rating of 0.85 throughout the facility. Unless noted otherwise, Ceiling Attenuation Class (CAC) ratings shall be a minimum of 35.

• **Recycling.** A recycling room or alcove may be included in the facility. However, the space must be taken entirely from the Mechanical Room as there is no extra space elsewhere. If a room is provided, this room shall open into the corridor and be provided with a door with a half-height glass window. When sizing the recycling area, keep in mind the function of this facility and that the recyclable materials will mainly come from the lounge and admin area.

• **Ceiling Heights.** Unless noted otherwise in this document, all ceiling heights shall be a nominal 8’. Ceilings in the kitchen may exceed 8’. Ceilings in storage rooms are desired to be 9’ in order to allow increased storage under the “fire” line which is located at 18” below the lowest part of the sprinkler head, or in accordance with NFPA 1. Where increasing the height of the storage room ceilings would require an increase in the structure and overall height of the building, an 8’ ceiling will be acceptable. Furr-down over the Central Counter may be lower than 8’, but no less than 7’. The Active Play Room ceiling shall be 9’ minimum over at least 75% of the room.

• **Exterior Doors.** All exterior doors from the facility shall be flush within ¼” with the exterior sidewalk for evacuation of cribs in the case of an emergency. The exterior pathways from activity room and corridor doors shall meet the requirements of the ABA, and be appropriate for crib evacuation. All exterior doors shall be hollow metal unless noted otherwise. All exterior doors shall be provided with hardware on the exterior side that allows for re-entry. All exterior exit doors shall have flush type panic hardware and self-closing devices. All exit door hardware shall be located 44” above the finished floor and shall have a clear opening width of 32” minimum.

• **Intrusion/Exit Alarms:** Exit notification system with keyed manual override is required at all exterior doors that do not exit directly into a fenced area, except for the main entrance and the kitchen door. These alarms must provide immediate notification; they cannot have a delay.

• **Interior Doors.** Salient characteristics include; durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Unless noted otherwise, doors shall be solid core wood doors, stain grade. Glazing in interior half-height glass doors shall be a minimum of 5 square feet of exposed clear safety glass. All interior doors shall be half-height glass, except for adult toilet room doors and Nursing Mother’s Room. All doors opening into corridor and all doors into toilet rooms must be provided with self-closing devices. All fire rated doors shall meet NFPA 80 requirements to include self-closing devices. Metal frames shall be painted, and doors shall be stained and sealed.

• **Interior Walls.** Unless noted otherwise, interior walls between rooms shall be provided with acoustical batt insulation to match the stud wall thickness and on top of the acoustical ceiling system in addition to the required ceiling insulation to achieve the required R value. All interior walls shall contain 5/8” drywall and all electrical outlets shall be staggered. Unless noted otherwise, interior walls between rooms shall be
provided with acoustical batt insulation, or other approved system, to obtain an STC rating of at least 45.

- **Finger Guards.** Finger guards shall be provided as noted in the room descriptions below. Finger guards shall be roll-type only.

- **Wall Finish.** Impermeable wall finishes, such as vinyl wall covering or Fiberglass Reinforced Paneling (FRP), are not acceptable, unless noted otherwise. This is a mold prevention issue.

- **Corner Guards.** Corner guards are to be provided on all outside corners of interior walls. Corner guards are to be integral color, radiused, sufficiently durable to prevent damage to the wall corners and injury to the children, and mechanically fastened (not through tape or adhesives) to the wall. Corner guards are to be caulked and sealed to prevent harborage of vermin and accumulation of debris. Corner guards shall be minimum 48” high and set flush and tight to the adjacent walls.

- **Sharp Edges.** Radiused corners shall be provided on all millwork up to 48” Above Finished Floor (AFF). Ease or file smooth all sharp points and edges on wall tile, cabinetry, windows, doors and frames, etc. For exposed under-sink piping in any area accessible to children, ABA covering is required. The intent is to eliminate all sharp corners, points, and edges up to a height of at least 48” AFF.

- **Exterior Windows.** Where exterior windows are provided, the following requirements shall be met. Shall comply with UFC 4-010-01 ATFP requirements. Salient characteristics include; easy to clean and able to withstand continuous use. Individual windows shall be single or double hung, with only the top portion operable; bottom sash shall be fixed. If double hung windows are provided the bottom sash must be secured so that it cannot be opened, and such modification shall not affect the warranty on the window. Full height insect screens shall be provided. Secure insect screens with interior metal clips to preclude children from removing the clips. Windows shall comply with the Army Standard. Windows shall be provided with a manual locking mechanism in addition to the sash latch mechanism and with a non-porous, smooth and easily cleanable, solid surface quartz window sill mounted 18-20” above the finish floor per the Army Standard. Wood and plastic laminate window sills are not allowed. Exposed edges shall be eased per the Sharp Edges paragraph above. Where windows with sash latching mechanisms higher than 80” AFF are provided, the contractor shall also provide a minimum of one (1) latching/unlatching mechanism (pole mounted) for each room with operable windows.

- **Glass.** All glass shall be provided with a manufacturer’s label indicating that the glass is safety glass.

- **Mirrors.** All mirrors in the facility shall be a tempered safety glass mirror, with stainless steel surround, including a clear film applied to mirrored surface to retain glass pieces, if somehow the tempered mirror is cracked accidentally.

- **View Windows & Vision Panels.** Refer to the Army Standard for additional information on View Windows and Vision Panels. View Windows are interior windows where the actual glass is to extend from 18”-24” above the floor to the height of the top of the door. Vision Panels are interior windows where the actual glass is to extend from no more than 51”
above the floor to the height of the top of the door. It is desired that the top frame of the windows aligns with the top of the door frame, and that the bottom frame of the vision panels are right above the cubbies.

- **Caulking.** All caulking used inside the building shall be US Department of Agriculture (USDA) or National Sanitation Foundation (NSF) approved caulking.

- **Grout.** Where porcelain, ceramic or quarry tile is provided, grout shall be non-staining and resistant to liquid absorption.

- **Showers.** Showers and changing rooms are NOT allowed due to child abuse prevention measures.

- **Toilet Partitions.** Toilet partition doors shall include latching hardware, but shall not include coat hooks. In the ABA toilet stalls in the pre-school/pre-k/kindergarten activity rooms and outreach/transitional care activity room, toilet partitions shall have a headrail (overhead-braced) or shall be otherwise mounted to assure rigidity of all posts and panels. These ABA toilet stalls shall be provided with one in-swinging regular width door (+/- 24” wide), and one out-swinging ABA-compliant (min. 32” clear opening width) door. Floor mounted partitions are required. Partitions shall be color-through phenolic or solid plastic (HDPE). Exposed boots and hardware shall be non-corrosive material.

- **Kitchen Equipment.** Shall be commercial equipment NSF approved. Kitchen equipment will comply with all NFPA requirements to include NFPA 96 and NFPA 17A, equipment will be contractor furnished and contractor installed (CFCI). All equipment must be designed and installed in accordance with the Technical Bulletin Medical (TB) Med 530 Tri-service Food Code.

- **Special Kitchen Requirements.** The kitchen designs shown in the standard designs are only a general concept and the final kitchen design must be determined by a certified kitchen designer in accordance with TB Med 530 Tri-service Food Code and in coordination with the IMCOM G9 Preventive Medicine Proponent.

4. **MECHANICAL**

- **Temperature Controls.** Temperatures in child activity rooms/modules maintained at no less than 68 degrees F. in the winter and no higher than 78 degrees F. in summer. Temperature range must be maintained within one foot above the floor with a combination of conditioned and natural air. Tamper proof temperature and air quality measurement/monitoring devices shall be installed with the operable mechanism mounted at 44" - 48" elevation above floor. Maintain an odor free environment in toilet areas and in child activity spaces serving non-toilet trained children through local exhaust fans. A relative humidity of between 35 and 50 percent will be maintained in the facility, especially in the activity rooms, to prevent drying of mucous membranes, to control the spread of diseases, and to prevent mold growth. In addition to the temperature sensor in the thermostat, a second temperature sensor is used to measure the temperature at 1 foot above the floor. The sensor must be virtually flush with the wall (no more than ½” projection), and shall not include any controls or other safety concerns. The thermostat and the sensor shall be located in the wall near the center of the activity space, not adjacent to the entry door, and not near the toileting area.
- **Water Temperature.** The required temperature for the water in child accessible areas is between 85 – 95 degrees F, with a maximum of 110 degrees F. Water temperature in the laundry, janitor and the kitchen is required to be 140 degrees F, but the pots and pan sink and the dishwasher require 180 degrees F water for final rinse (booster heater).

- **Automatic-Sensor Plumbing Fixtures.** Automatic flushing water closets and automatic lavatory faucets are not allowed in CDC.

- **Water Closets.** The child size toilets are available from only a couple of manufacturers, and are in limited stock. There is a possibility these will be a long lead item. Substitutions of larger toilets will NOT be accepted. Please take long lead times into consideration when ordering. Provide appropriately sized toilet seats for all water closets.

- **Drinking Fountains.** Where an activity room requires a drinking fountain, it shall be a non-refrigerated fountain, similar to photo below. All corners must be rounded or eased. Where Electric Water Coolers (EWC) are permitted in the facility, at least one of them shall be provided with automatic water bottle filler.

![Drinking Fountain Image](image_url)

5. **ELECTRICAL**

- **Receptacles.** Wall mounted receptacles shall generally be mounted 18” above finished floor unless otherwise noted. Above counter, receptacles shall be mounted in the vertical wall space above the counter-top unless otherwise noted. Coordinate the location of wall mounted receptacles located above the “cubbies” with the vision panels. Outlets shall be tamper resistant throughout the facility in accordance with the National Electric Code (NEC). As a minimum provide two (2) combination 3.1 Amp charger USB/electrical outlet in reception counter, staff lounge, training room, administrative and office areas, to include the cooks work station, and one (1) at sign-in desk in each child activity room.

- **Lighting.** There is a mixture of natural and artificial light which can be adjusted by the staff to changing outside light levels. Lighting in the Activity Rooms shall be overhead and be provided with multi-ballast fixtures to provide lighting flexibility of all lamps/all fixtures on, half lamps/all fixtures on, and all lamps/fixtures off. The intent is to be able to reduce lighting levels to address different activities and to address natural daylighting. Lighting shall be controlled by manual wall switches located at the room entrance door and at the direct exit to the outside. If dimmer controls are used in lieu of multiple switches, provide lighting fixtures which will not oscillate visibly at low intensities. Roof overhangs, shades and window treatments control the natural light-brightness ratios and lateral differences in illumination. Lights come from behind most activities and children. There are sufficient controls over the natural and artificial light to give lighting flexibility. Multi-ballast switches, dimmer switches, track lighting, movable lights, etc., are used to meet this requirement.
Lighting Controls. Due to child abuse prevention measures, automatic motion light switches (occupancy sensors) are allowed only in the Mechanical, Electrical, and Communication Rooms (rooms that are not accessible to users and staff) of the CDC.

Intercom. Must have a two-way addressable intercom system capable of allowing program staff to communicate with the main reception desk and other locations of the facility as noted throughout this document. Each station shall have the ability to receive and send. The mechanical, communication, and electrical rooms do not need to be on this intercom system. System to enable front desk staff to contact rooms individually or all rooms simultaneously. Intercoms provided with operable mechanisms shall comply with ABA.

Telephones. Each activity room shall be provided with a telephone that is capable to make local and long distance calls. Incoming calls shall be received at the reception desk, and the reception desk can then forward the call to the appropriate room if necessary.

Panels. In general, electrical circuit breaker panels shall be located in appropriate electrical rooms. If this cannot be accommodated, panels may be located in the corridors if provided with keyed locks.

GFI. Ground Fault Interrupter (GFI) outlets shall be installed per electrical code.

Water Coolers. Electricity for the Electric Water Coolers (EWC) shall be per manufacturer’s instructions, but in no case shall the electrical outlet and cord be located outside of the area encompassed by the EWC, where it would be easily accessible. All EWC shall be GFI protected.

CYS Commercial Internet/WiFi: Entire facility shall be WiFi enabled and shall be able to support Virtual Lab School (VLS) training, child programming, teaching curriculum, etc.

6. FIRE PROTECTION

Emergency Lighting. Emergency lighting shall be provided in all occupied rooms, including the Mechanical Room and Electrical Room.

Fire Protection Systems. Comply with UFC 3-600-01. Occupancy Classification is “Day-Care” in accordance with NFPA 101, Life Safety Code. Provide complete automatic sprinkler system, fire alarm/mass-notification system, and carbon monoxide detection in accordance with UFC 3-600-01 and UFC 4-021-01. Provide smoke detection in all areas including closets over 20 sq. ft. except the kitchen and spaces not climate controlled such as the attic, walk-in coolers, and the mechanical equipment room. Maintain smoke detectors at least 3 ft. from all HVAC diffusers. Heat detectors are not required in any area because the facility is fully protected with a sprinkler system.

Fire Extinguishers. Provide general purpose fire extinguishers in corridors, mechanical rooms and electrical rooms in accordance with NFPA 10. Provide wet chemical fire extinguishing equipment in the kitchen in accordance with NFPA 96 and NFPA 17A.

Storage Height Limitation Line. In rooms where shelves are provided (to include Janitor Closet, Storage Rooms, Car Seat Storage, etc.), interior walls shall be marked with a red line 1” in width located 18” below the lowest point of the sprinkler head. The red line shall
be provided on the walls with shelves as a minimum. In addition, where adjustable shelves are provided in storage rooms, shelving standards shall be mounted so that the top of the bottom shelf can be located 1.5’ - 2’ above the floor. There is no need to plan for the top shelf to be any higher than 3’ below the ceiling.

7. SECURITY AND MONITORING - VIDEO SURVEILLANCE SYSTEM (VSS)

- **Requirements.** VSS shall include visual and audio recording.

- **Power.**

  VSS POWER SUPPLY: Power for the VSS shall be distributed from the SER rack mount power supply to each camera location (Class 2 limited power source - low voltage system - 24VAC to the cameras). The number of cameras provided for each facility shall be as indicated on the SECURITY & MONITORING PLAN included in the Child Development Center (CDC) for Children 6 Weeks - 5 Years Old Standard Plans.

  SURVEILLANCE EQUIPMENT RACK (SER): The circuit shall be terminated with a 3-prong receptacle (L5-30P3W125V) recess-mounted in the location designated for the SER.

  Small Facility - One (1) 120VAC/30-AMP circuit shall be supplied to the location designated for the VSS SER.

  Medium And Large Facilities - Two (2) 120VAC/30-AMP circuit shall be supplied to the location designated for the VSS SER.

  PARENTAL VIEWING MONITOR (PVM): A standard 110 VAC receptacle shall be installed at the location designated for the PVMs. The receptacle shall be mounted above the drop ceiling and can be tied to any circuit in the facility.

  PVM WORKSTATION (PWS): A standard 110 VAC outlet shall be made available at the reception desk, for the PVM workstation.

- **Electrical Metallic Tubing (EMT).** EMT shall be sized in accordance with the National Electric Code (NEC) based upon the type, gauge and quantity of cabling and wiring installed within the EMT. The conduit fill rate shall conform to the NEC standard.

- **Power Cable.** The camera power cable shall be 2-conductor AWG 18 gauge stranded unshielded, plenum rated cable type. The preferred wire is pre-marked SmartWire™ security access control cable 2-conductor 18 AWG bare copper, non-shielded plenum. Color combination to be determined by Contractor as required.

  Un-terminated power cables shall be identified by either the camera number, the specification of the power run, or in a manner determined by the Contractor.

  All power cables shall be one continuous run. Splicing is not acceptable.

  In the location designated for the SER, leave 20’ excess coil of power cable.
• **Video Camera Cable.** The camera video cable shall be RG-59U type VSS plenum coax cable type. The preferred cable is pre-marked SmartWire™ RG-59 video surveillance cable plenum. Color combination to be determined by Contractor as required.

Un-terminated video cables shall be identified by either the camera number, the specific location of the video run or in a manner determined by the Contractor.

All video cables shall be one continuous run. Splicing is not acceptable.

In the location designated for the SER leave 20’ excess coil of video cable.

• **Ceiling Installations.** In areas with drop ceilings, run conduit (w/ video and power cabling) above the ceiling from SER location to each camera location. Leave 6’ excess coil of power and video cable tied up at the camera location.

In areas w/o dropped ceilings, run conduit (w/ video and power cabling) above ceiling from SER location to each camera location. Provide one (1) single gang receptacle box, recess mounted, on the wall no more than 12’, and no less than 8’, above the fixed floor at each camera location (the closer to 12’ is preferable for greater field of view.) All receptacle boxes in the same area shall be mounted at the same distance from the fixed floor.

In areas with exposed conduit, provide one (1) octagon box surface mounted on the wall no more than 12’, and no less than 8’, above the fixed floor at each camera location (the closer to 12’ is preferable for greater field of view). All receptacle boxes in the same area shall be mounted at the same distance from the fixed floor.

• **Exterior Cameras.** In areas where cameras are to be installed on building exterior, run conduit (w/ video and power cabling) from SER location to the adjacent interior location. Leave the requested 6’ excess coil of power and video cable tied up at the location. Do not penetrate the wall, if required, a 4”x 4” junction box and sleeve will be installed during camera installation. Request a #12 solid ground wire at each designated exterior camera location. Suggested grounding options are:

Grounding wire(s) to be attached to a grounded conduit run, or run grounding wire from communication room/SER location to exterior cameras. If option #2 is the method of grounding, provide a #6 or #8 ground wire from communication room/SER location to a power panel.

• **Cat-6 Cable and Connection.** A 10/100/1000 Base-T CAT-6 circuit shall be provided between the facilities administrator's office and the SER location. A second 10/100/1000 Base-T CAT-6 circuit shall be provided between the PVM workstation location at the reception desk and the SER. This shall include a terminated RJ-45 receptacle at the administrator’s office and the PVM workstation location. At the SER, both circuits shall be un-terminated with 20’ excess coiled in overhead.

• **Pull Box.** A pull box shall be installed at the PVM with an EMT wire path between it and the PVM workstation location. All EMT shall be a minimum of one inch in diameter.

• **Diffusers/Register/Grilles.** Do not install diffusers, registers, or grilles above a location designated for SER. Forced heat during winter months may cause over-heating of equipment.
- **Cable Trays.** Use cable trays throughout the facility. Recommend using tray to get camera wires as close to the camera locations as possible. Then run conduit to the exact locations using the most direct route.

8. **SITE AND BUILDING EXTERIOR**

- **Criteria.** Site and building exterior must be in accordance with the Installation Design Guide (IDG) or other garrison criteria.
  
  Site Size:
  - Small: 2.5 acres, minimum
  - Medium: 4.5 acres, minimum
  - Large: 7.0 acres, minimum

  * ATFP standoff distances may vary with building construction types and affect overall size of the site.

- **Site Layout.** The layout of the parking lot and traffic circulation must consider the safety of the children when entering and departing the facility. Parking lots shall be designed such that children are not required to walk behind parked vehicles as they walk from the parking lot to the building. In other words, sidewalks shall be provided immediately in front of or beside the parked car. These sidewalks must be sufficient width to accommodate the overhang of the vehicle and still provide ABA width, and shall be of adequate width to accommodate patrons with strollers and little children. Eliminate the possibility of a child being required to walk behind a parked car to gain access to the building. If curbside or parallel parking is provided, parking should be restricted to the right side so children will not exit the vehicle on the street side of the vehicle. If the parking lot design requires crosswalks, as a minimum, these must be painted and identifiable with signage in appropriate locations to ensure the safety of the patrons. In addition to the curb ramps required for ABA, provide curb ramps as needed at all crosswalks for parents with strollers and little children. Where a crosswalk crosses the traffic circulation path, consider placing the walk way on top of a speed table to ensure vehicles have slowed at that location.

  All sidewalks and exit pathways must be ABA compliant. The sidewalk around the perimeter of the building shall be 6’ wide. The sidewalk around the perimeter of the building must be directly adjacent to the building, with no grass or landscaping between the sidewalk and the building.

  Required fire exits (which includes exterior exits from all activity rooms) from the building will lead to a public way or to a clear safe area which is a minimum distance of 50’ from the building. If this is located within a fenced area, they shall terminate at a gate in the playground fence.

  Locate exterior mechanical and electrical equipment as far from the main entrance as possible. It is recommended that the mechanical yard be located at the side of the facility. Screening is required that is architecturally compatible with the facility.
• **Ramps.** Exterior ramps shall comply with ABA, including ABA Handrails Advisory 505.4 requiring child height handrails in addition to adult height handrails. This Advisory is mandatory for CDC facilities.

• **Parking.** The only reserved parking in the patron parking area shall be the minimum number of ABA compliant spaces required. Unless required by Leadership in Energy & Environmental Design (LEED), Installation policies, or other standard, it is strongly recommended that reserved spaces for car pools, energy efficient vehicles, etc. are not provided since the spaces close to the door are the preferred spaces for parents with small children who are the patrons of this facility. Rows of parking spaces shall not be provided in dead-end vehicular circulation paths. The number of parking spaces are as follows. These numbers are based on 1 car per staff member, and 1 car for every 4 children.
  - Small: 59 spaces minimum
  - Medium: 104 spaces minimum
  - Large: 146 spaces minimum

• **Emergency Access Roads.** Emergency vehicle access roads shall meet the requirements of NFPA 1 and UFC 3-600-01.

• **Entry Canopy.** An entrance canopy shall be provided. The canopy shall be permanent construction, and shall enhance the architectural theme of the facility. The minimum area of this canopy shall be 100 square feet, with a minimum dimension of 8’. Per Army criteria, this area counts as half-scope to the total square footage of the facility. Larger canopies are acceptable.

• **Wall Hydrants.** Freeze-proof, enclosed wall hydrants, 18” above finished grade, are required on the walls of the building as noted below. They must be of the frost/freeze protective type with removable cut off handles with integral vacuum breakers. A picture is provided below as to the desired type of hydrant. This picture is provided as a guideline only, and is not meant to dictate a manufacturer or model. As a minimum, they shall be located as follow:
  - One (1) by the kitchen door in all size facilities
  - One (1) in each of the 3 playgrounds in the small and medium facilities
  - One (1) in the Infant/Pre-Tod playground, 2 in the Toddler/Pre-School playground, and two (2) in the Pre-K/Kindergarten playgrounds in the large facilities

• **Receptacles.** In addition to receptacles required by the UFC, provide appropriate tamper-proof exterior electrical outlets near each set of exterior storage room doors. Mount the outlets at 18” A.F.F. in protective, lockable boxes.
- **Fire Requirements.** Fire alarm audio/visual devices and rapid entry fire fighter entry key lock box shall be provided on the exterior of the building, at the main entrance. Key lock box must be supervised by the fire alarm system. In addition to the exterior notification appliances required by UFC or Code, provide at least one (1) fire alarm visual device on the exterior wall for each playground.

9. **CLARIFICATIONS TO THE ARMY STANDARD**

The Army Standard is the mandatory criteria from which this document was developed. The following items are clarifications or updates to the information in the Army Standard. Where there is a conflict between the Army Standard and the Design Criteria, the information below serves to clarify the requirements of the Army Standard.

- The finish schedule on page 14 replaces the outdated finish schedule provided as guidance in the Army Standard.
- In the references listed in the Army Standard, replace “AR 415-5 – Appendix L” with “AR 420-1, Section VII.
- VSS requirements at the Control Desk (Central Counter/Reception Desk in the Army Standard) are provided in this document in paragraph 7 above.
- In the Accessibility requirements listed in the Army Standard, add the following, “The Department of Justice has determined that facilities in compliance with the Architectural Barriers Act (ABA) Accessibility Standards for Department of Defense Facilities, as adopted by the Department of Defense in Oct., 2008, are compliant with ADA.”
- Bottoms of vision panels have been lowered from 54” to 51” to provide easier visibility into the room, based on the height of the cubbies.
- The POC for the USACE Center of Standardization for Child and Youth Services is Mr. Jelani Ingram, CEHNC-ED-CS-A, [Jelani.A.Ingram@usace.army.mil](mailto:Jelani.A.Ingram@usace.army.mil), (256) 895-1869.

10. **DIAPER CHANGING STATION.**

The typical Diaper Changing Station is illustrated below. The diagrams and photos illustrate the desired sizes and features. Diaper changing stations may be configured with the sink on the left or the right. Diaper changing stations shall comply with General Cabinetry requirements above. Diaper changing stations shall be located in the following areas: Infant/Pre-Tod/Toddler Activity Rooms, Preschool/Pre-K/Kindergarten Activity Rooms, and Outreach Transitional Care Activity Rooms.

Mandatory features include: 24” deep by 60” wide cabinetry. 14 pull-out diaper trays, solid surfacing top with integral sink and 5”– 6” tall curbs, pull-out stairs with an integral handrail on the outside edge for ease of opening, and a pull-out area under the sink for location of a trash can and supplies.

The working surface of the diaper changing station shall be 34” above the floor. The side walls shall be 6” above the work surface with cutouts at the stairs and sink as shown in photos below. Top shall be white or off-white without pattern or design.

Stairs shall be provided with rollers or glides for ease of opening and closing. The only portion of the stairs that may be in contact with the floor are rollers or wheels if used. In addition, the stairs shall not have lateral movement from side to side. They must pull straight out and push straight in with no other movement. Stairs shall lock securely in place.
when pulled out for use. The pull-out stairs shall have an integral handrail on the outside edge for ease of opening.

Doors that conceal the pull-out diaper trays and the pull-out under the sink shall be provided with locks. These locks shall be keyed alike, and shall be the same key that is provided for the food prep and crafts cabinet door locks and the sign-in desk drawer locks. Cabinet edges shall be eased to avoid sharp corners.

Locate the paper towel dispenser so that it does not conflict with the diaper changing operation or become a hazard for the child on the diaper changing station. Per the toilet accessory schedule, soap dispensers and a mirror are not required in this location.
11. CUBBIES.

A typical design of pre-manufactured cubbies is illustrated below. The Infant/Pre-Tod/Toddler Activity Rooms have 14 cubbies. The Preschool/Pre-K/Kindergarten Activity Rooms and the Outreach/ Transitional Care Activity Rooms have 24 cubbies. Each cubbie should measure 12" wide x 15" deep and 48" tall, no drawers. They shall be permanently attached to walls. Provided by Building Contractor.
12. **SIGN-IN DESKS.** The typical Sign-in Desk in the Activity Rooms is illustrated below:

![Sign-in Desk Diagram]

- **6 EQUAL CABINETS WITH LOCKABLE DOORS. EACH DOOR PROVIDED WITH UNIQUE LOCK.**
- **2 DESK DRAWERS WITH LOCKS. KEYED SAME AS DOORS IN FOOD PREP/ARTS AND CRAFTS CABINETS.**
13. **FOOD PREP/ARTS & CRAFTS CABINETS.** A recommended solution for the Food Prep/Arts and Crafts cabinets in the Activity Rooms is shown below:

![Diagram of Food Prep/Arts & Crafts Cabinets]

VERIFY SIZE OF REFRIGERATOR TO BE PROVIDED BY GOVERNMENT.
ENSURE ADEQUATE SPACE IS PROVIDED, TO INCLUDE SPACE FOR AIR CIRCULATION. IF A WIDER OPENING IS REQUIRED, ADJUST SPACE BETWEEN BASE CABINETS AS REQUIRED.

**FOOD PREP/ARTS AND CRAFTS**
### 14. ROOM FINISH SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NAME</th>
<th>FLOOR MATERIAL</th>
<th>BASE MATERIAL</th>
<th>WALL MATERIAL</th>
<th>CEILING MATERIAL</th>
<th>CEILING HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. VESTIBULE</td>
<td>PT/CT &amp; WOM</td>
<td>PT/CT</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>2. WAITING AREA</td>
<td>LVT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>3. CENTRALCOUNTER/RECEPTION</td>
<td>LVT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8/7'</td>
</tr>
<tr>
<td>4. ADMIN STORAGE</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>5. ISOLATION AREA</td>
<td>SV</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>6. ISOLATION TOILET AREA</td>
<td>PT/CT</td>
<td>PT/CT</td>
<td>PT/CT*&amp;EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>7. ADMINISTRATIVE OFFICES</td>
<td>LVT or CPT</td>
<td>RB</td>
<td>PGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>8. INFANT/PRE-TOD/TODDLER ACTIVITY ROOM</td>
<td>SV</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>9. INFANT/PRE-TOD/TODDLER STORAGE ROOM</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>10. INFANT/PRE-TOD/TODDLER TOILET AREA</td>
<td>PT/CT</td>
<td>PT/CT</td>
<td>PT/CT*&amp;EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>11. PRESCHOOL/PRE-K/ KINDERGARTEN ACTIVITY ROOM</td>
<td>SV</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>12. PRESCHOOL/PRE-K/ KINDERGARTEN STORAGE ROOM</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>13. PRESCHOOL/PRE-K/ KINDERGARTEN TOILET AREA</td>
<td>PT/CT</td>
<td>PT/CT</td>
<td>PT/CT*&amp;EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>14. BUGGY STORAGE</td>
<td>LVT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>15. PUBLIC &amp; STAFF TOILETS</td>
<td>PT/CT</td>
<td>PT/CT</td>
<td>PT/CT*&amp;EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>16. EXTERIOR STORAGE</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>17. JANITOR CLOSET</td>
<td>QT</td>
<td>QT</td>
<td>CT*&amp;EPGB</td>
<td>VACT or PGB</td>
<td>8'-9'</td>
</tr>
<tr>
<td>18. STROLLER/ CAR SEAT AREA</td>
<td>LVT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>19. TRAINING ROOM</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>20. TRAINING ROOM STORAGE</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>21. STAFF LOUNGE</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>22. CENTRAL STORAGE</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>23. VSS EQUIPMENT ROOM</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
</tbody>
</table>
### Standard Design Criteria
Child Development Centers
(For Children 6 Weeks – 5 Years)

<table>
<thead>
<tr>
<th>ROOM NAME</th>
<th>FLOOR MATERIAL</th>
<th>BASE MATERIAL</th>
<th>WALL MATERIAL</th>
<th>CEILING MATERIAL</th>
<th>CEILING HEIGHT</th>
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</thead>
<tbody>
<tr>
<td>24. KITCHEN</td>
<td>QT</td>
<td>QT</td>
<td>CT</td>
<td>V ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>24A. DRY FOOD STORAGE</td>
<td>QT</td>
<td>QT</td>
<td>CT</td>
<td>V ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>25. LAUNDRY ROOM</td>
<td>QT</td>
<td>QT</td>
<td>EPGB</td>
<td>V ACT</td>
<td>8'</td>
</tr>
<tr>
<td>26. OUTREACH/TRANSITIONAL CARE ACTIVITY ROOM</td>
<td>SV</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>27. OUTREACH/TRANSITIONAL CARE STORAGE ROOM</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>28. OUTREACH/TRANSITIONAL CARE TOILET AREA</td>
<td>PT/CT</td>
<td>PT/CT</td>
<td>PT/CT* &amp; EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>29. ACTIVE PLAY ROOM</td>
<td>ATH FL</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'/9'</td>
</tr>
<tr>
<td>30. ACTIVE PLAY STORAGE ROOM</td>
<td>VCT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'-9'</td>
</tr>
<tr>
<td>31. ACTIVE PLAY TOILET AREA</td>
<td>PT/CT</td>
<td>PT/CT</td>
<td>PT/CT* &amp; EPGB</td>
<td>ACT</td>
<td>8'</td>
</tr>
<tr>
<td>32. NURSING MOTHERS ROOM</td>
<td>LVT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
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<tr>
<td>33. CORRIDOR(S)</td>
<td>LVT</td>
<td>RB</td>
<td>EPGB</td>
<td>ACT</td>
<td>8'</td>
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<td>34. UTILITY ROOMS:</td>
<td></td>
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<tr>
<td>MECHANICAL ROOM</td>
<td>CONC</td>
<td>RB</td>
<td>PGB</td>
<td>EXP STRUC</td>
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<td>ELECTRICAL ROOM</td>
<td>CONC</td>
<td>RB</td>
<td>PGB</td>
<td>EXP STRUC</td>
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<tr>
<td>COMMUNICATIONS ROOM</td>
<td>CONC</td>
<td>RB</td>
<td>PGB</td>
<td>EXP STRUC</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Finishes shown above represent minimum finishes. Other finishes meeting or exceeding the performance of the finishes shown above may be considered.

**Note:** An asterisk (*) identifies Program Space that has a mandatory minimum size.

**FINISH SCHEDULE LEGEND:**

- **ACT**  Acoustical Ceiling Tile (2’ x 2’)
- **ATH FL**  Athletic Floor - Connor’s 4 + 4 Elasti-plus flooring system or approved equal.
- **CONC**  Sealed Concrete Floor
- **CT**  Ceramic Tile (with asterisk = minimum 4’-0” high)
- **CPT**  Carpet Tiles (anti-static)
- **EPGB**  Epoxy Painted Gypsum Board
- **EXP STRUC**  Exposed Structure
- **EXTGB**  Exterior Gyp Board
- **PGB**  Painted Gypsum Board
Standard Design Criteria  
Child Development Centers  
(For Children 6 Weeks – 5 Years)

PT Porcelain Tile
QT Quarry Tile
RB Rubber Base
SV Sheet Vinyl
VACT Vinyl Faced Acoustical Tile (moisture resistant) on a Suspension System
VCT Vinyl Composition Tile
LVT LUXURY VINYL TILE (Thickness must be 20mil or higher)
WOM Walk-off Mat

15. NET AREAS AND TOTAL GROSS BUILDING AREA:

<table>
<thead>
<tr>
<th>ROOM NAME</th>
<th>SMALL</th>
<th>MEDIUM</th>
<th>LARGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. VESTIBULE</td>
<td>75sf</td>
<td>75sf</td>
<td>75sf</td>
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<tr>
<td>2. WAITING AREA</td>
<td>100sf</td>
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<td>260sf</td>
</tr>
<tr>
<td>3. CENTRALCOUNTER/RECEPTION</td>
<td>90sf</td>
<td>130sf</td>
<td>130sf</td>
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<tr>
<td>4. ADMIN STORAGE</td>
<td>25sf</td>
<td>40sf</td>
<td>40sf</td>
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<tr>
<td>5. ISOLATION AREA</td>
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<td>6. ISOLATION TOILET AREA</td>
<td>40sf</td>
<td>40sf</td>
<td>40sf</td>
</tr>
<tr>
<td>7. ADMINISTRATIVE OFFICES</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DIRECTOR’S OFFICE</td>
<td>120sf</td>
<td>120sf</td>
<td>120sf</td>
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<td>ASST. DIRECTOR’S OFFICE</td>
<td>90sf</td>
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<td>90sf</td>
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<tr>
<td>OPEN OFFICE AREA</td>
<td>130sf</td>
<td>300sf</td>
<td>300sf</td>
</tr>
<tr>
<td>8. INFANT/PRE-TOD/TODDLER ACTIVITY ROOM</td>
<td>*490sf Program Area 626sf +/- Net Area (4)</td>
<td>*490sf Program Area 626sf +/- Net Area (8)</td>
<td>*490sf Program Area 626sf +/- Net Area (12)</td>
</tr>
<tr>
<td>9. INFANT/PRE-TOD/TODDLER STORAGE ROOM</td>
<td>45sf (4)</td>
<td>45sf (8)</td>
<td>45sf (12)</td>
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<tr>
<td>10. INFANT/PRE-TOD/TODDLER TOILET AREA</td>
<td>38sf (4)</td>
<td>38sf (8)</td>
<td>38sf (12)</td>
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<tr>
<td>11. PRESCHOOL/PRE-K/KINDERGARTEN ACTIVITY ROOM</td>
<td>*840sf Program Area 1023sf +/- Net Area (3)</td>
<td>*840sf Program Area 1023sf +/- Net Area (6)</td>
<td>*840sf Program Area 1023sf +/- Net Area (9)</td>
</tr>
<tr>
<td>12. PRESCHOOL/PRE-K/KINDERGARTEN STORAGE ROOM</td>
<td>45sf (3)</td>
<td>45sf (6)</td>
<td>45sf (9)</td>
</tr>
<tr>
<td>13. PRESCHOOL/PRE-K/KINDERGARTEN TOILET AREA</td>
<td>62sf (3)</td>
<td>62sf (6)</td>
<td>62sf (9)</td>
</tr>
<tr>
<td>14. BUGGY STORAGE</td>
<td>45sf</td>
<td>45sf (2)</td>
<td>45sf (3)</td>
</tr>
<tr>
<td>15. PUBLIC &amp; STAFF TOILETS</td>
<td>48sf (2)</td>
<td>48sf (5)</td>
<td>48sf (6)</td>
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<tr>
<td>16. EXTERIOR STORAGE</td>
<td>40sf (5)</td>
<td>40sf (8)</td>
<td>40sf (11)</td>
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<tr>
<td>17. JANITOR CLOSET</td>
<td>45sf</td>
<td>45sf</td>
<td>45sf</td>
</tr>
<tr>
<td>18. STROLLER/CAR SEAT AREA</td>
<td>50sf</td>
<td>60sf</td>
<td>100sf</td>
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<tr>
<td>19. TRAINING ROOM</td>
<td>260sf</td>
<td>460sf</td>
<td>660sf</td>
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<td>20. TRAINING ROOM STORAGE</td>
<td>30sf</td>
<td>50sf</td>
<td>50sf</td>
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<tr>
<td>Room Type</td>
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<td>600sf</td>
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<tr>
<td>Staff Lounge</td>
<td>300sf</td>
<td>400sf</td>
<td>600sf</td>
</tr>
<tr>
<td>Central Storage</td>
<td>40sf</td>
<td>120sf</td>
<td>240sf</td>
</tr>
<tr>
<td>VSS Equipment Room</td>
<td>60sf</td>
<td>60sf</td>
<td>60sf</td>
</tr>
<tr>
<td>Kitchen</td>
<td>906sf</td>
<td>982sf</td>
<td>982sf</td>
</tr>
<tr>
<td>DRY FOOD STORAGE</td>
<td>In Kitchen</td>
<td>In Kitchen</td>
<td>In Kitchen</td>
</tr>
<tr>
<td>Laundry Room</td>
<td>100sf</td>
<td>180sf</td>
<td>180sf</td>
</tr>
<tr>
<td>Outreach/Transitional Care Activity Room</td>
<td>*840sf Program Area</td>
<td>*1023sf +/- Net Area</td>
<td>*1023sf +/- Net Area</td>
</tr>
<tr>
<td>Outreach/Transitional Care Storage Room</td>
<td>45sf</td>
<td>45sf</td>
<td>45sf</td>
</tr>
<tr>
<td>Outreach/Transitional Care Toilet Area</td>
<td>62sf</td>
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<td>62sf</td>
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<tr>
<td>Active Play Room</td>
<td>*1080sf</td>
<td>*1080sf</td>
<td>*1080sf (2)</td>
</tr>
<tr>
<td>Active Play Storage Room</td>
<td>90sf</td>
<td>90sf</td>
<td>80sf  (2)</td>
</tr>
<tr>
<td>Active Play Toilet Area</td>
<td>45sf</td>
<td>45sf</td>
<td>45sf  (2)</td>
</tr>
<tr>
<td>Nursing Mothers Room</td>
<td>48sf</td>
<td>48sf</td>
<td>48sf</td>
</tr>
<tr>
<td>Corridor(S)</td>
<td>1556sf</td>
<td>2824sf</td>
<td>3931sf</td>
</tr>
<tr>
<td>Mechanical Room</td>
<td>783sf</td>
<td>1374sf</td>
<td>1568sf</td>
</tr>
<tr>
<td>Electrical Room</td>
<td>108sf</td>
<td>203sf</td>
<td>119sf</td>
</tr>
<tr>
<td>Communications Room</td>
<td>96sf</td>
<td>131sf</td>
<td>152sf</td>
</tr>
<tr>
<td>Total Programed Spaces</td>
<td>14,017sf</td>
<td>23,492sf</td>
<td>32,876sf</td>
</tr>
<tr>
<td>Total Gross Factor (Incl. interior &amp; exterior wall thickness)</td>
<td>1,833sf</td>
<td>2,958sf</td>
<td>4,424sf</td>
</tr>
<tr>
<td>Total Building Gross</td>
<td>15,850sf</td>
<td>26,450sf</td>
<td>37,300sf</td>
</tr>
</tbody>
</table>

**NOTE:** An asterisk (*) identifies Program Space that has a mandatory minimum size. Numbers in () = quantity of these rooms in the building.
### 16. TOILET FIXTURE & GRAB BAR SCHEDULE

<table>
<thead>
<tr>
<th>DESCRIPTION:</th>
<th>CDC (0-5)</th>
<th>ADULT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Closet (Toilet) – ABA – floor mounted</td>
<td>Infants: Not Applicable</td>
<td>17” min -19” max AFF to seat</td>
</tr>
<tr>
<td></td>
<td>Preschool: 12” AFF to seat</td>
<td></td>
</tr>
<tr>
<td>ABA dimension centerline of WC to wall</td>
<td>Infants: Not Applicable</td>
<td>16” min -18” max</td>
</tr>
<tr>
<td></td>
<td>Preschool: 12” min -15” max</td>
<td></td>
</tr>
<tr>
<td>Water Closet (Toilet) - Non-ABA – floor</td>
<td>Infants: 10”-11” AFF to rim</td>
<td>Typical Industry Standard</td>
</tr>
<tr>
<td>mounted</td>
<td>Preschool: 13”-14” to rim</td>
<td></td>
</tr>
<tr>
<td>Lavatory (Handsink) – ABA – wall hung</td>
<td>Infants: Not Applicable</td>
<td>34” max AFF to rim</td>
</tr>
<tr>
<td></td>
<td>Preschool: 20” AFF to rim</td>
<td></td>
</tr>
<tr>
<td>Lavatory (Handsink) - Non ABA – wall hung</td>
<td>Infants: 17” AFF to rim</td>
<td>Typical Industry Standard</td>
</tr>
<tr>
<td></td>
<td>Preschool: 20” AFF to rim</td>
<td></td>
</tr>
<tr>
<td>Urinal - ABA</td>
<td>Not Applicable</td>
<td>17” max AFF to rim</td>
</tr>
<tr>
<td>Urinal - Non-ABA</td>
<td>Not Applicable</td>
<td>Typical Industry Standard</td>
</tr>
<tr>
<td>Drinking Fountain within Activity Rm</td>
<td>Infants: 17” AFF to rim</td>
<td>Not Applicable</td>
</tr>
<tr>
<td></td>
<td>Preschool: 20” AFF to rim</td>
<td></td>
</tr>
<tr>
<td>Drinking Fountain in Corridor - ABA or EWC</td>
<td>&lt; 36” max to spout AFF</td>
<td>&lt; 36” max to spout AFF</td>
</tr>
<tr>
<td></td>
<td>38”-43” to spout AFF</td>
<td>38”-43” to spout AFF</td>
</tr>
<tr>
<td></td>
<td>Min one of each req’d;</td>
<td>Min one of each req’d;</td>
</tr>
<tr>
<td></td>
<td>If &gt;2, 50% of each req’d</td>
<td>If &gt;2, 50% of each req’d</td>
</tr>
<tr>
<td>Grab Bars in ABA stalls &amp; rooms</td>
<td>Preschool: 20”-25” AFF to top</td>
<td>33”min - 36” max AFF to top</td>
</tr>
<tr>
<td>Grab bars req'd on rear &amp; adjacent wall</td>
<td>Infants: Not Applicable</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**


2. ABA requires only one (1) plumbing fixture of each type in every toilet room to comply with ABA/ADA. All other fixtures comply with Army Standards.

3. CDC standards are based upon The Army Standard for Child Development Centers for Children Ages 6 weeks to 5 years.

4. Within CDC’s, drinking fountain outside of the Active Play Rooms shall be mounted 20” AFF to the rim.

5. Within the Isolation Toilet in CDC’s, water closet to be 15” AFF to rim, lavatory 20” AFF to rim, and grab bars mounted at 25” AFF to the top.
### 17. TOILET ACCESSORY SCHEDULE

<table>
<thead>
<tr>
<th>FIXTURE TYPE</th>
<th>ADULT TOILETS &amp; LAVATORIES</th>
<th>ACTIVITY ROOM CHILD TOILETS</th>
<th>ACTIVITY ROOM LAVATORIES (Hand sinks)</th>
<th>DIAPERING STATIONS</th>
<th>FOOD PREPARATION SINKS</th>
<th>ISOLATION AREA TOILET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mirror+</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Paper Towel Dispenser*</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Trash Receptacle (user provided)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Soap Dispenser*</td>
<td>X</td>
<td>User provided retail pump soap</td>
<td>User provided retail pump soap</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>ABA Exposed Piping Covering</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Coat Hook</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toilet Tissue Dispenser*</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABA Grab Bars</td>
<td>X</td>
<td>X Preschool Toilets only at Child ABA height</td>
<td></td>
<td></td>
<td></td>
<td>X at Child ABA height</td>
</tr>
</tbody>
</table>

* Soap, toilet paper and paper towel dispensers – coordinate with the installation and provide in accordance with the service contract. Store bought soap in pump bottles to be used in child activity rooms.
+ Mirrors in most areas must be a tempered safety glass mirror, with stainless steel surround, including clear film applied to mirrored surface to retain glass pieces, if somehow the tempered mirror is cracked accidentally. Provide one (1) mirror above each lavatory.

### 18. HARDWARE SETS

- **Office Lockset (F81)** - key lock from outside to lock/unlock outside handle, always open from the inside with turn button to lock outside handle, turn button releases manually: Not Used

- **Office Lockset (F82B)** - key lock from outside to lock/unlock outside handle, always open from the inside with turn button to lock outside handle, turn button releases automatically:
  - Isolation Toilet
  - Offices
  - Training Room
  - Staff Lounge
  - Dry Storage
  - Adult Toilets in Waiting area with occupancy indicator as shown below
• **Classroom Lockset: (F84)** - key lock from outside to lock/unlock outside handle, always open from the inside:
  - Kitchen Entry
  - Exterior Storage Rooms
  - Training Storage

• **Storage Lockset (F86)** - key lock from outside, outside lever always locked, always open from the inside:
  - Corridor Staff Toilets with occupancy indicator as shown below
  - Nursing Mother’s Room with occupancy indicator as shown below
  - Laundry
  - Janitor’s Closet
  - Storage Rooms in Activity Rooms
  - Admin Storage
  - VSS Equipment Room
  - Mechanical, Electrical, and Communication Rooms (unless installation requirements differ).

• **Intruder Classroom (F110)** - key lock from outside or inside lever locks/unlocks outside lever, always open from the inside:
  - Activity Room Entries
  - Active Play Entry
  - Transitional Care Entry

• **Notes:** All exterior doors shall be provided with hardware on the exterior side that allows for re-entry. All exterior exit doors shall have flush type panic hardware. Front entry doors are as defined in the vestibule or entry space.

*Example of occupancy indicator only.

19. **LIGHTING LEVELS**

From “Caring for our Children”, recommended lighting levels are:
• Reading, painting, and other close work areas: 4.6 to 9 lux on the work surface;
• Work and play areas: 2.8 to 4.6 lux on the surface;
• Stairs, walkways, landings, driveways, entrances: at least 1.8 lux on the surface;
• Sleeping and napping areas: no more than .5 lux during sleeping or napping except for infants and children who are resting in the same room that other children are involved with activities.
B. INDIVIDUAL SPACE REQUIREMENTS

1. SPACE: Vestibule

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION**: Minimize mechanical air transfer of high traffic doors. Flooring serves to promote cleanliness by removing excess dirt from shoes. High traffic area for patrons with strollers, etc.

- **ADJACENCIES**: Entry shall be on direct path from parking and drop-off areas. The entry shall have direct visual contact with the reception desk for access control.

- **OCCUPANTS**: CDC users. Staff, children, parents and visitors.

- **FLOOR and BASE**: Salient characteristics include; easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, and easy to maintain. Flooring shall be non-slip. A base material, appropriate for the flooring material used, is required. A LEED-compliant walk-off mat is required.

- **CEILING**: Salient characteristics include; resistance to environmental conditions, such as changes in air pressure and high humidity, and shall be durable.

- **DOORS/FRAME**: Two (2) sets of storefront double 3 foot by 7 foot doors, with flush panic hardware, shall be provided on the outside and inside of the entry vestibule. To ensure maximum visibility, doors shall be fully glazed. Doors shall be provided with closers.

- **SPECIAL HARDWARE AND ELECTRICAL REQUIREMENTS**:
  - Provide buzzer type access system at entry including following features:
    - Buzzer that sounds at reception desk.
    - Intercom system for communication between reception desk and entry.
    - Electronic lock system.
  - Features of electronic lock system shall include:
    - Control of access into facility at reception desk.
    - Manual override of electronic lock by key from the outside.
    - Manual override to allow the doors to unlock from the interior.
    - “Tell-Tale” light to indicate if doors are locked or unlocked
  - Ensure the locking mechanism does not negate the use of the panic hardware during emergency evacuation. The fire department shall be provided with a key to the manual override.

- **AUTOMATIC DOOR OPERATORS**: Provide ABA approved automatic door operators at outer and inner doors for handicapped accessibility. The automatic door operators at inner door shall be interlocked with Buzzer Access System controls.

- **FIRE PROTECTION**: A smoke detector is required in the Entry Vestibule.
2. **SPACE: Waiting Area**

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** A waiting area for parents, children, and visitors. High traffic area for patrons with strollers, etc. Provides an area for seating.

- **ADJACENCIES:** Shall be adjacent to the central reception desk and the entry. Shall also have direct access to the public toilets.

- **OCCUPANTS:** Parents, children, and visitors.

- **WALLS:** Wall material shall have the ability to absorb pushpins. Wall surface shall be able to withstand tape peeling.

- **CEILING:** A “designer” ceiling system may be used in this area.

- **EXTERIOR WINDOWS:** Provide at least 1 exterior window in a small facility, and at least 2 exterior windows in a medium or large facility.

- **PLUMBING:** Provide a total of 2 EWC, one (1) adult ABA standing height (38”-43” AFF to spout outlet), and one (1) at 20” (+/- ½”) AFF to the rim.

- **ELECTRICAL:** Provide lighting with dimming (continuous, flicker-free dimming from 100% to 10%) or a multilevel switching scheme (with one inboard lamp switched separately from outboard lamps to provide distinct, evenly distributed lighting levels.)

- **SPECIAL REQUIREMENTS:** A VSS (video surveillance system) outlet shall be located on the wall so that the VSS monitor is mounted so that it is visible from the reception desk, as shown in paragraph 7 in the General Information, Security & Monitoring, above.

3. **SPACE: Central Counter/Reception Area**

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** The main access control point with direct visual contact with the entry, waiting area, and public toilets. This area will view/observe the flow of children, parents, and visitors. Patrons will sign in/out. Payments are received at the desk. Location of central intercom system, along with the location of the front (entry) door buzzer and electronic lock release. The central intercom system shall be able to contact each room individually and also shall be able to contact all rooms at one time. A duress alarm shall be provided, which must alert the MP station. The desk provides direct line of sight of the isolation area and toilet. Shall accommodate computers, printers, fax machine, copier, etc.

- **ADJACENCIES:** Adjacent to waiting area and entry. Shall have direct visual control of the entry. Shall have direct visual and physical access to the Isolation Area and Isolation Toilet. Shall have direct, controllable access to corridor. A general office storage room shall be accessible from this area or from the Open Office area.
• OCCUPANTS: CDC Staff

• WALLS: Wall surface shall have the ability to absorb pushpins and to withstand tape peeling.

• CEILING: A “designer” ceiling system may be used in this area.

• DOORS/FRAME: Counter height swing gates are required. Gates to match reception desk in finish and material. Swing of gate shall not interfere with corridor traffic. At least one of the gates shall swing open 90 degrees minimum in both directions and shall be ABA compliant.

• CABINET CONSTRUCTION: Salient characteristics include; easy to clean, maintain and repair. Cabinets shall be durable and be able to withstand impacts from carts, strollers, buggies, etc., without showing damage. Cabinets shall be a minimum of Architectural Woodworking Institute (AWI) 400B, Custom Grade. Counter tops shall be provided at two levels, 30” and 42” above the floor. Work surfaces behind counter tops shall be at standard working height, and shall allow for mobile pedestals to be placed under the work surface. Do not provide built-in pedestals or drawers other than pencil drawers noted below. Countertop shall be appropriate as a writing surface, and shall be solid surface quartz. Countertops shall be sealed to the base cabinetry. For safety, all edges, vertical and horizontal, shall be eased or rounded. No sharp edges may be provided. Two (2) equally spaced grommets with covers shall be provided in each of the raised counter areas. Grommets with covers are to be provided in the lower counter area directly below the grommets in the upper counter. In addition, one (1) grommet with cover shall be provided in the lower counter on the side where no upper counter is provided. One (1) pencil drawer shall be built-in in the small facility, and two (2) pencil drawers shall be provided in the medium and large facility. Area between upper and lower work surfaces shall be closed. See drawings for recommended outlet, grommet, pencil drawer, and standing height counter locations.

• ELECTRICAL: A minimum of 3 quad outlets shall be provided in the small, 5 quad outlets in the medium and large. In addition, a duplex outlet shall be provided in each area with the raised counter for convenience. A minimum of 3 data outlets shall be provided in the small, and 5 in the medium and large. These electrical and data outlets shall be located evenly spaced along the reception counter, and are in addition to the wall outlets required by code. If outlets are provided on the wall opposite of the reception desk, in the public area, these outlets shall be mounted 54” above finished floor.

• SPECIAL REQUIREMENTS:
  • Reception desk shall be delineated through the use of special lighting and architectural features, such as furr-downs, etc. Furr-down shall be no lower than 7’-0”.
  • An intercom system shall be provided with the buzzer to allow communication with the entry vestibule.
  • A duress alarm must be provided – provide conduit, cabling, electrical, and the capability to tie directly into the MP station with a silent activation button discreetly located under the lower countertop. Ensure any other buttons, such as the button to open the door, is not located near the duress button to avoid false alarms.
- Locate the manual emergency HVAC system shut-off button, with a non-locking protective cover, on the wall behind the Reception desk.

- Ensure that there is an emergency light provided over the reception desk to provide lighting during electrical outages.

Recommended counter arrangement – Small facility

NOTE: Data outlets indicate both voice and data.
Recommended counter arrangement – Medium and Large facility

NOTE: Data outlets indicate both voice and data.
4. SPACE: Admin Storage

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** General storage for office supplies and other supplies.

- **ADJACENCIES:** Located adjacent to the Reception Desk and/or Open Office Area. Other storage rooms shall be adjacent to the areas they serve (such as Training Room, etc.)

- **OCCUPANTS:** CDC Staff

- **SPECIAL REQUIREMENTS:**
  - On each wall, a minimum of 4 adjustable minimum 12" deep shelves with heavy duty standards and brackets will be provided. Provide shelves on as many walls of the storage rooms as possible while maintaining adequate circulation space. Shelving shall be able to support 100 pounds per lineal foot.
  - Provide an electrical outlet and space for a 1.7 – 2.0 cu. ft. refrigerator (provided by others), for medication, within the storage room closest to the isolation area.
  - If the closet is deeper than a reach in closet, it must be no smaller than 5’-0” in either direction to allow for ABA 5’ turning circle.

5. SPACE: Isolation Area

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** Serves as a rest area for sick children. Sufficient space for a small cot will be provided in this area for the child.

- **ADJACENCIES:** Shall be adjacent to the Isolation Toilet and the Reception Desk. Shall be within direct observation of the reception area staff. No door shall be provided between the Isolation Area and the Reception Desk.

- **OCCUPANTS:** Sick child and 1 staff.

- **FLOOR and BASE:** Base shall be seamless except at inside corners. Base shall be sealed to floor with USDA or NSF approved caulking.

- **WALLS:** Wall surface shall have the ability to absorb pushpins and to withstand tape peeling.

- **SPECIAL REQUIREMENTS:** Required Items: Lockable wall cabinet for first aid supplies.

6. SPACE: Isolation Area Toilet

- The following criteria is in addition to the General Requirements provided above.
FUNCTIONAL DESCRIPTION: ABA compliant toilet room for use by sick children. This toilet may also be used by the adult staff. Surfaces will be subjected to strong disinfectants on occasion.

ADJACENCIES: Shall be adjacent to the Isolation Area.

OCCUPANTS: Sick child and staff.

FLOOR and BASE: Flooring shall be slip resistant.

WALLS: Salient characteristics include; shall be easy to clean and maintain, and shall be durable. On all walls, a minimum 48" tall ceramic or porcelain tile wainscot is required.

CEILING: Salient characteristics include; ease of accessibility to mechanical system above ceiling, durable, and free of sags or other defects.

DOOR: Provide 3 foot by 7 foot stained solid core wood door, with no vision panel.

HVAC: Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided directly over the toilet area.

PLUMBING: Provide a single occupant child height ABA wall-mounted lavatory (20” to rim) and floor-mounted water closet (15” to rim) with child height grab bars. The water closet and lavatory pairing of sizes in this area is unique to the building. Room shall be provided with a floor drain. Due to the limited use of this space, floor drain shall have a self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.

ELECTRICAL: Provide 1 (one) GFI outlet near the lavatory. Outlet shall be mounted 48” above the finish floor.

7. SPACE: Administrative Offices

The following criteria is in addition to the General Requirements provided above.

FUNCTIONAL DESCRIPTION: Offices for the CDC management staff. Includes a private office for the CDC Director, a private office for the CDC Assistant Director, and an open office area.

ADJACENCIES: Shall be adjacent to the Waiting Area and Reception Desk. Private offices shall open off of the Open Office area. A general office storage room shall be accessible from this area or from the Reception Desk.

OCCUPANTS: CDC staff.

WALLS: Wall material shall have the ability to absorb pushpins. Wall surface shall be able to withstand tape peeling.

DOORS/FRAME: Doors shall be provided with a minimum 12” wide sidelite.
• **ELECTRICAL**: Multiple electrical and voice/data outlets spaced 5’ apart to be provided in all administrative offices/open office area to accommodate computers and other office equipment, in addition to potentially providing office space for more than 1 person. Provide an intercom in each office and in the open office area. A VSS monitor will also be located in the Director’s office.

• **DESIGNER OPTION**: If desired by the installation, one or two more private offices, not to exceed 90 square feet each, may be provided in the open office area. The addition of these offices shall not affect the arrangement or size of any other function or space.

8. **SPACE**: Infant/Pre-Tod/Toddler Activity Room

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION**: Activity Room which functions for child care that includes eating, sleeping, playing, and other activities.

• **ADJACENCIES**: Shall be adjacent to the corridor and shall have direct access to the exterior. Shall have direct access to storage room. Access to an age appropriate playground must be provided.

• **OCCUPANTS**: Two (2) Program Assistants and a maximum of 14 Children (depending upon age of children).

• **MINIMUM AREA**: (See Chart above). Program Area may NOT be any less than 490 SF. Program area is area that can be used for children’s activities. Areas such as circulation cannot be counted as program area. See attached drawing for calculation of Program Area. Hatched area indicates portions of room that can be included in the minimum Program Area. Program area is calculated differently than net area or gross area.

• **FLOOR and BASE**: Base shall be seamless except at inside corners. Base shall be sealed to floor with USDA or NSF approved caulking.

• **WALLS**: Wall material shall have the ability to absorb pushpins. Wall surface shall be able to withstand tape peeling. Where drinking fountains and/or lavatories are provided within the Activity Room space, a minimum 48” tall or to the bottom of the cap on the wing wall, whichever is higher, wainscot that is impervious to water and able to withstand daily sanitizing is required. This material shall extend to the floor and at least 18” horizontally in both directions from the centerline of the equipment. As illustrated in the diagram below, the walls around the toileting area shall be 4’-2” tall.

• **DOORS/FRAME**: All doors shall be provided with finger guards at the hinges, on the Activity Room side, up to a minimum height of 48”. Finger guard shall be roll type. On exterior doors, finger guards shall not conflict with weather stripping. Interior doors shall be a minimum of half-height glass, with a clear width opening of 32” and shall be provided with a 12-inch wide sidelite on the latch side of the door. Exterior door shall be provided with flush panic hardware, shall be provided with self-closing device, shall have a clear width opening of 32”, open at least 110 degrees to ensure ease of crib emergency evacuation, and direct exiting onto the outdoor play space. Exterior door shall be provided with a hold-
open device as part of the self-closing device. Exterior doors shall be a minimum of half-
height glass. Interior and exterior doors shall swing in the direction of exit travel. Door
thresholds and hardware will be designed to facilitate the exit of a crib containing five (5)
infants by a single adult. The thresholds will have a low profile.

- **EXTERIOR WINDOWS**: Provide at least two (2) exterior windows.

- **VISION PANELS/VIEW WINDOWS**: At least one (1) view window must be provided
  between this activity space and the corridor. In addition, not less than two (2) vision
  panels must be provided between this activity space and the corridor.

- **CABINETRY**: Salient characteristics include; easy to clean, maintain, and repair. Cabinets
  shall be durable and be able to withstand impacts (examples: food carts, push toys, etc.),
  without showing damage. Cabinets shall be a minimum of Architectural Woodworking
  Institute (AWI) 400B, Custom Grade, High Pressure Laminate clad. Counter top shall have
  integral back splash, and shall be solid surface quartz. Counter tops of cabinets will have
  rounded/radius corners and edges.

  - A 3’-6” wide sign-in desk with 6 lockable storage units (each keyed separately) in an
    overhead cabinet, and an adjacent 18” wide coat closet. Refer to illustrations under
    General Requirements.

  - 8 foot wide base and wall cabinets with 2 stainless steel sinks. Sinks shall be separated
    as much as possible, and shall be provided with gooseneck faucets. Sink bowls shall be
    a minimum of 21” W x 15-3/4” D x 8” H. Space shall be provided for an under counter
    refrigerator. Consider providing 2 – 36” W base cabinets with a 2’ space between for the
    refrigerator. Base cabinets shall be lockable, and may not have a protruding handle. All
    base cabinets in the facility shall be keyed alike.

  - 14 pre-school cubbies, 12” wide x 15” deep x 48” tall permanently attached to walls (pre-
    manufactured). Provide upper shelf for hats and gloves and an open area at the base for
    boots and shoes and two (2) coat hooks in the middle section. Provided by Building
    Contractor.

- **ELECTRICAL**: All electrical outlets, except for those mounted above countertops, shall be
  mounted 54” above the finish floor. Outlets provided above countertops shall be located no
  less than 18” from the edge of the countertop. Two (2) electrical outlets to be provided
  above the backsplash (food preparation/art counter/sink), one (1) over each open counter
  area. Electrical outlet to be provided for under the counter refrigerator. Electrical outlet,
  data port, intercom, and phone connection at sign in desk to be provided. Provide task
  lighting at sign in desk, installed on underside of upper cabinets. A minimum of 1 (one)
  outlet will be provided above the cubbies in the program area and will be mounted between
  the vision panels. A minimum of 3 (three) duplex outlets will be installed, evenly spaced, on
  the exterior wall and the wall opposite the toilet area. In addition, provide 2 (two) voice/data
  outlets in the activity area. A minimum of five (5) blank outlet covers will be provided but not
  installed. GFI outlets shall be provided where required by Code.

  Provide lighting with dimming (continuous, flicker-free dimming from 100% to 10%) or a
  multilevel switching scheme (with one inboard lamp switched separately from outboard
  lamps to provide distinct, evenly distributed lighting levels.) Lighting within the child activity
  rooms must; sign-in desk and toilet be zoned together; and either an additional 2 zones or
  lamp control within the activity space, to allow different lighting levels for nap time and
activity times. A minimum of 0.1 lumen/square foot must be maintained in the activity room to allow for camera operation.

In rooms where cribs will be located, electrical outlets shall be provided and shall be wired for future receptacles, but will be provided with blank outlet plates. This will be coordinated with the users during design. The receptacles shall be provided to the building users.

Intercom device and telephone required as described in the General Requirements above.

- **PLUMBING:** A drinking fountain is required on the wall outside the toilet area, mounted 17” AFF to the rim. Plumbing for toilet/lavatory area, diaper changing table, and food preparation/art counter/sink area is also required.
9. SPACE: Infant/Pre-Tod/Toddler Storage Room

- The following criteria is in addition to the General Requirements provided above.

- FUNCTIONAL DESCRIPTION: Storage room to support the Infant/Pre-Tod/Toddler Activity Room.

- ADJACENCIES: Shall be directly accessible from the Activity Room

- OCCUPANTS: CDC Staff.

- ELECTRICAL: A minimum of 1 (one) electrical outlet is required.

  Lighting shall be manually controlled by a manual switch within the room.

- SPECIAL REQUIREMENTS: Shelving shall be provided on 3 walls. A minimum of three (3) adjustable shelves with heavy-duty standards and brackets will be provided on each wall. At least one (1) 18” deep shelf and two (2) 12” deep shelves shall be provided on each wall. Shelving shall be able to support 100 pounds per lineal foot.

  Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

10. SPACE: Infant/Pre-Tod/Toddler Toilet Area

- The following criteria is in addition to the General Requirements provided above.

- FUNCTIONAL DESCRIPTION: Toilet area for CDC children.

- ADJACENCIES: Shall be directly accessible from the Activity Room

- OCCUPANTS: CDC Children with staff assistance.

- FLOOR and BASE: Flooring shall be slip resistant.

- WALLS: On all walls, a minimum 48” tall or to the bottom of the cap on the wing wall, whichever is higher, ceramic or porcelain tile wainscot is required.

- TOILET PARTITIONS: Top of toilet partitions shall be no higher than 42” tall with 12” clear opening at bottom. Doors shall not be provided for these toilet stalls.

- PLUMBING: Two (2) pediatric floor mounted water closets (10”-11” to rim), two (2) child wall mounted lavatories (17” to rim) and the diaper changing station to be located as shown on the diagram. A floor drain is required in this area that shall have a self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Provide toilet seats. Dual flush toilets are allowed; however, automatic flush valves are not allowed.
For the sinks in the toilet area (NOT the sinks in the food prep/arts and crafts area), faucets shall be pre-mixed single push control that meets ABA requirements. Water shall run for at least 15 - 20 seconds.

- **HVAC**: Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided directly over the toilets.

- **ELECTRICAL**: No electrical receptacles are allowed in this area.

- **SPECIAL REQUIREMENTS**: Mirrors required above each lavatory. One (1) diaper changing station approximately 24” deep x 60” long cabinet with sink integral to diaper changing surface, and retractable stairs with a handrail. Refer to illustrations under General Requirements. Provided by Building Contractor.

11. **SPACE**: Preschool/Pre-K/Kindergarten Activity Room

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION**: Activity Room which functions for child care, which includes eating, sleeping, playing, and other activities.

- **ADJACENCIES**: Shall be adjacent to the corridor and shall have direct access to the exterior. Shall have direct access to storage room. Access to an age appropriate playground must be provided.

- **OCCUPANTS**: Two (2) Program Assistants and a maximum of 24 Children (depending upon age of children).

- **MINIMUM AREA**: (See Chart above.) Program Area may NOT be any less than 840 SF. Program area is area that can be used for children’s activities. Areas such as circulation cannot be counted as program area. See attached drawing for calculation of Program Area. Hatched area indicates portions of room that can be included in the minimum Program Area. Program area is calculated differently than net area or gross area.

- **FLOOR and BASE**: Base shall be seamless except at inside corners. Base shall be sealed to floor with USDA or NSF approved caulking.

- **WALLS**: Wall material shall have the ability to absorb pushpins. Wall surface shall be able to withstand tape peeling. Where drinking fountains are provided within the Activity Room space, a minimum 48” or to the bottom of the cap on the wing wall, whichever is higher, tall wainscoting that is impervious to water and able to withstand daily sanitizing is required. This material shall extend to the floor and at least 18” horizontally in both directions from the centerline of the equipment. As illustrated in the diagram below, the walls around the toileting area shall be 4’-2” tall.

- **DOORS/FRAME**: Doors shall be provided with finger guards at the hinges, on the Activity Room side, up to a minimum height of 48”. On exterior doors, finger guards shall not conflict with weather stripping. Interior doors shall be a minimum of half-height glass, with a clear width opening of 32” and shall be provided with a 12” wide sidelite on the latch side of the
door. Exterior door shall be provided with flush panic hardware, shall be provided with self-closing device, shall have a clear width opening of 32”, open at least 110 degrees to ensure ease of crib emergency evacuation, and direct exiting onto the outdoor play space. Exterior door shall be provided with a hold-open device as part of the self-closing device. Exterior doors shall be a minimum of half-height glass. Interior and exterior doors shall swing in the direction of exit travel. Door thresholds and hardware will be designed to facilitate the exit of a crib containing five (5) infants by a single adult. The thresholds will have a low profile.

- **EXTERIOR WINDOWS:** Provide at least (3) exterior windows.

- **VISION PANELS/VIEW WINDOWS:** At least (1) view window must be provided between this activity space and the corridor. In addition, not less than (2) vision panels must be provided between this activity space and the corridor.

- **CABINETRY:** Salient characteristics include: easy to clean, maintain and repair. Cabinets shall be durable and be able to withstand impact (example: food carts), without showing damage. Cabinets shall be a minimum of Architectural Woodworking Institute (AWI) 400B, Custom Grade, High Pressure Laminate clad. Counter top shall have integral back splash, and shall be solid surface quartz. Counter tops of cabinets will have rounded/radius corners and edges.
  - A 3’-6” wide sign-in desk with 6 lockable storage units (each keyed separately) in an overhead cabinet, and an adjacent 18” wide coat closet. Refer to illustrations under General Requirements.
  - 8 foot wide base and wall cabinets with 2 stainless steel sinks. Sinks shall be separated as much as possible, and shall be provided with gooseneck faucets. Sink bowls shall be a minimum of 21” W x 15-3/4” D x 8” H. Space shall be provided for an under counter refrigerator. Consider providing 2 – 36” W base cabinets with a 2’ space between for the refrigerator. Base cabinets shall be lockable, and may not have a protruding handle. All base cabinets in the facility shall be keyed alike.
  - 24 pre-school cubbies, 12” wide x 15” deep x 48” tall permanently attached to walls (pre-manufactured). Provide upper shelf for hats and gloves and an open area at the base for boots and shoes and two (2) coat hooks in the middle section. Provided by Building Contractor.

- **ELECTRICAL:** All electrical outlets, except for those mounted above countertops, shall be mounted 54” above the finish floor. Outlets provided above countertops shall be located no less than 18” from the edge of the countertop. Two (2) electrical outlets to be provided above the backsplash (food preparation/art counter/sink), one (1) over each open counter area. Electrical outlet to be provided for under the counter refrigerator. Electrical outlet, data port, intercom, and phone connection at sign in desk to be provided. Provide task lighting at sign in desk, installed on underside of upper cabinets. A minimum of two (2) outlets will be provided above the cubbies in the program area and will be mounted between the vision panels. A minimum of four (4) duplex outlets will be installed, evenly spaced, on the exterior wall and the wall opposite the toilet area. In addition, provide two (2) voice/data outlets in the activity area. A minimum of five (5) blank outlet covers will be provided but not installed. GFI outlets shall be provided as required by Code.

Provide lighting with dimming (continuous, flicker-free dimming from 100% to 10%) or a multilevel switching scheme (with one inboard lamp switched separately from outboard lamps to provide distinct, evenly distributed lighting levels.) Lighting within the child activity area.
rooms must; sign-in desk and toilet be zoned together; and either an additional 2 zones or lamp control within the activity space, to allow different lighting levels for nap time and activity times. A minimum of 0.1 lumen must be maintained in the activity room to allow for camera operation.

Intercom device and telephone required as described in the General Requirements above.

- PLUMBING: A drinking fountain is required on the wall outside the toilet area, as shown in the following diagram, mounted 20" AFF to the rim. Plumbing for toilet/lavatory area, diaper changing table, and food preparation/art counter/sink area is also required.
12. SPACE: Preschool/Pre-K/Kindergarten Storage Room

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** Storage room to support the Preschool/Pre-K/Kindergarten Activity Room.

- **ADJACENCIES:** Shall be directly accessible from the Activity Room.

- **OCCUPANTS:** CDC Staff.

- **ELECTRICAL:** A minimum of 1 (one) electrical outlet is required.

  Lighting shall be manually controlled by a manual switch within the room.

- **SPECIAL REQUIREMENTS:** Shelving shall be provided on 3 walls. A minimum of three (3) adjustable shelves with heavy-duty standards and brackets will be provided on each wall. At least one (1) 18” deep shelf and two (2) 12” deep shelves shall be provided on each wall. Shelving shall be able to support 100 pounds per lineal foot.

  Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

13. SPACE: Preschool/Pre-K/Kindergarten Toilet Area

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** Toilet area for CDC children.

- **ADJACENCIES:** Shall be directly accessible from the Activity Room.

- **OCCUPANTS:** CDC Children with staff assistance.

- **FLOOR and BASE:** Flooring shall be slip resistant.

- **WALLS:** On all walls, a minimum 48” tall or to the bottom of the cap on the wing wall, whichever is higher, ceramic or porcelain tile wainscot is required.

- **TOILET PARTITIONS:** Top of toilet partitions shall be no higher than 48” tall with 12” clear opening at bottom. Stall doors to be provided.

- **PLUMBING:** Two (2) pediatric floor mounted water closets one (1) ABA and one (1) non-ABA (refer to Toilet Fixture and Grab Bar Schedule), two (2) child wall mounted lavatories (20” to rim) and diaper changing station to be as shown on the diagram. A floor drain is required in this area that shall have a self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Provide toilet seats. Dual flush valve toilets are allowed; however, automatic flush valves are not allowed.
For the sinks in the toilet area (NOT the sinks in the food prep/arts and crafts area), faucets shall be pre-mixed single push control that meets ABA requirements. Water shall run for at least 15 - 20 seconds.

- **HVAC:** Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided directly over the toilets.

- **ELECTRICAL:** No electrical receptacles are allowed in this area.

- **SPECIAL REQUIREMENTS:** Mirrors required above each lavatory. Mirrors shall be a tempered safety glass mirror, with stainless steel surround, including clear film applied to mirrored surface to retain glass pieces, if somehow the tempered mirror is cracked accidentally.

One diaper changing station approximately 24” deep x 60” long cabinet with sink integral to diaper changing surface, and retractable stairs with a handrail. Refer to illustrations under General Requirements. Provided by Building Contractor.

One of the toilet stalls and one of the lavatories shall meet child ABA requirements. Reference the floor plan for accessible door location. Distance between toilet partition and lavatory/diaper changing station shall be 33” to facilitate ABA side approach to the lavatory.

### 14. SPACE: Buggy Storage

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** An alcove storage area to accommodate 2 infant “bye-bye” buggies. Buggies are approximately 76” by 26”.

- **ADJACENCIES:** Shall be directly accessible from the corridor, and should be located near to the Infant/Pre-Tod/Toddler Rooms.

- **WALLS:** Salient characteristics include; easy to clean, repairable, easy to maintain, and durable. In addition, vertical strips of wood, rubber, or other resilient material shall be placed 16” apart, and attached to studs, shall be provided on all walls of this area. Strips shall be 3’ tall, and shall start at the top of the base. Strips to function as bye-bye buggy bumpers.

- **CEILING:** Salient characteristics include; ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.

- **ELECTRICAL:** Lighting in this area shall be wired to the corridor light switch.

### 15. SPACE: Public and Staff Toilets

- The following criteria is in addition to the General Requirements provided above.
• **FUNCTIONAL DESCRIPTION:** ABA compliant single occupant toilet rooms for staff, parents and visitors. Two (2) public toilet rooms will be provided in the waiting area of medium and large facilities.

• **ADJACENCIES:** Public toilets shall be located directly adjacent to the Waiting Area. Staff toilets shall be accessible from the corridors, and shall be distributed throughout the facility.

• **WALLS:** Salient characteristics include; shall be easy to clean and maintain, and shall be durable. On all walls, a minimum 48” tall wainscot is required that is impervious to water and be able to withstand daily sanitizing.

• **PLUMBING:** One (1) adult ABA compliant water closet, and one adult ABA compliant lavatory in each. A floor drain is required that shall have a self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.

• **HVAC:** Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided directly over the toilet. Exhaust fan shall be switched with the light.

• **ELECTRICAL:** Ensure lighting is provided above the mirror.
  
  Provide 1 (one) GFI outlet near the lavatory at 48” AFF.

• **SPECIAL REQUIREMENTS:** A wall-mounted fold-down diaper station shall be provided in each public toilet room adjacent to the Waiting Area.
  
  Adult height ABA grab bars shall be provided – mounted 34” maximum to TOP of bars.

16. **SPACE:** Exterior Storage

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION:** Store playground toys and equipment. Equipment that is stored in these rooms will often times be dirty and/or wet.

• **ADJACENCIES:** Directly accessible from the exterior of the building. Shall be easily accessible from playground area.

• **FLOOR and BASE:** Salient characteristics include; easy to clean, durable (able to withstand wet and dirty conditions), such as sealed concrete. A base material, appropriate for the flooring material used, is required.

• **WALLS:** Salient characteristics include; easy to clean, repairable, easy to maintain, and durable. Design walls to avoid energy loss from the surrounding conditioned spaces.

• **CEILING:** Salient characteristics include; resistance to environmental conditions, such as changes in air pressure and high humidity, and shall be durable. Design the ceiling to avoid energy loss from the surrounding conditioned spaces.
DOORS/FRAME: Salient characteristics include; easy to clean, able to withstand continuous use, and easy to maintain and repair. Each room to be provided with a pair of 3 foot by 7 foot doors, with each leaf provided with minimum of half-height glass panels. No astragals shall be provided. Instead, top and bottom flush bolts are to be provided on the inactive leaf. Adequate weather-stripping shall be provided to prevent access by vermin.

HVAC: Minimal conditioning of this space to be provided in extreme climates.

ELECTRICAL: Provide a minimum of 1 (one) outlet in each storage room. Lighting shall be manually controlled by a switch within the room.

SPECIAL REQUIREMENTS: Four (4) adjustable shelves with heavy duty standards and brackets will be provided on the back wall. Shelves shall be a minimum of 18” deep. Shelves shall be able to support 100 pounds per lineal foot.

Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

FIRE PROTECTION: A smoke detector is required in each Exterior Storage Room.

17. SPACE: Janitor Closet

The following criteria is in addition to the General Requirements provided above.

FUNCTIONAL DESCRIPTION: Space to store janitor’s equipment and cleaning supplies. Shelves are required within the Janitor’s Closet in order to store janitorial and all cleaning products in a secure, locked janitor’s closet away from areas where children’s activities take place. SDS to be provided for all hazardous materials and approved by the local Preventive Medicine and Safety authority.

ADJACENCIES: Directly accessible from the corridor.

WALLS: Walls shall be able to withstand moving of mop buckets and other janitorial supplies, and shall be able to resist damage due to moisture.

CEILING: Aluminum Acoustical Ceiling Grid with the size not exceeding 2’ by 2’ and supporting vinyl faced acoustical ceiling panels or painted gyp bd.

DOORS/FRAME: The 2015 edition of NFPA 101 no longer requires the door to this space to open 180 degrees into the corridor; a standard door swing of +/- 90 degrees is acceptable. Per the general requirements above, door shall be provided with self-closing device.

HVAC: Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided.

PLUMBING: A janitor floor sink (mop basin) is required. Floor drain with self-priming trap is required in this area. Provide faucet with hose connection and vacuum breaker.
• **ELECTRICAL:** A minimum of 1 (one) GFI electrical outlet is required.
  
  Lighting shall be manually controlled by a switch within the room.

• **SPECIAL REQUIREMENTS:** Adjustable 12” deep shelves with heavy duty standards and brackets will be provided on at least one wall. Shelves shall be able to support 100 pounds per lineal foot.

  Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

  Provide a wall-mounted rack, over the mop sink, for hanging mops.

### 18. SPACE: Stroller/Car Seat Area

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION:** Space for patron’s car seats and strollers.

• **ADJACENCIES:** Directly accessible from the corridor and accessible from the waiting area.

• **FLOOR and BASE:** Salient characteristics include; easy to clean, durable, easily repairable, and easy to maintain.

• **WALLS:** Wall surface shall be durable so that impacts from strollers do not damage the wall.

• **CEILING:** Salient characteristics include; ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.

• **ELECTRICAL:** The area shall have lighting controlled by the corridor lighting circuit.

• **SPECIAL REQUIREMENTS:** Adjustable shelves with heavy-duty standards and brackets will be provided on two walls for storage of car seats. Provide a rod and shelving along one wall for hanging umbrella strollers and car seats. Shelves shall be 24” deep. Standards for shelves shall be located so that the top shelf can be no closer than 3’ from the ceiling.

### 19. SPACE: Training Room

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION:** To facilitate training/distance learning by CDC staff.

• **ADJACENCIES:** Directly accessible from the corridor.
• **OCCUPANTS:** CDC staff. The Trainers will work in this space. Several workstations will be set up for others to come and train.

• **FLOOR and BASE:** Salient characteristics include; easy to clean, maintain, and repair.

• **WALLS:** Wall surface shall have the ability to absorb pushpins and to withstand tape peeling.

• **CEILING:** Salient characteristics include; ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects. Shall have a minimum CAC rating of 40.

• **VISION PANELS:** When the Training Room is not provided with exterior windows, providing vision panels between the Training Room and the Corridor may be required by the local CYS leadership.

• **EXTERIOR WINDOWS:** Where possible, provide exterior windows.

• **ELECTRICAL:** Electrical outlets, data ports, cable TV outlets, phone lines, and intercom to be provided. A minimum of 8 (small facilities) and 12 (medium and large facilities) voice/data ports, and 6 quad-plex electrical outlets shall be provided, evenly spaced along the walls of the room.

  Provide lighting with dimming (continuous, flicker-free dimming from 100% to 10%) or a multilevel switching scheme (with one inboard lamp switched separately from outboard lamps to provide distinct, evenly distributed lighting levels.)

20. **SPACE: Training Room Storage**

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION:** General storage for training materials and supplies.

• **ADJACENCIES:** Located adjacent to, and directly accessed from, the Training Room.

• **OCCUPANTS:** CDC Staff

• **ELECTRICAL:** Lighting shall be manually controlled by a switch within the room.

• **SPECIAL REQUIREMENTS:** Provide shelves on as many walls of the storage rooms as possible while maintaining adequate circulation space. A minimum of 4 adjustable shelves with heavy duty standards and brackets will be provided on each wall. Shelving shall be minimum 12” deep, and shall be able to support 100 pounds per lineal foot.

  Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.
21. SPACE: Staff Lounge

- The following criteria is in addition to the General Requirements provided above.

- FUNCTIONAL DESCRIPTION: Staff break area.

- ADJACENCIES: Directly accessible from the corridor.

- OCCUPANTS: CDC staff.

- WALLS: Wall surface shall have the ability to absorb pushpins and to withstand tape peeling.

- CEILING: Shall have a minimum CAC rating of 40.

- PLUMBING: Provide hot and cold water for sink. Provide water line for icemaker in refrigerator. Provide paper towel dispenser for sink.

- CABINETRY: A minimum 8 foot wide base and wall cabinets with 1 stainless steel sink. Sink shall be provided with gooseneck faucets. Sink bowl shall be a minimum of 21” W x 15-3/4” D x 8” H. Counters will be 34” high. A 36” wide space shall be provided adjacent to counter for a refrigerator. Counter top shall have integral back splash, and shall be solid surface quartz.

- ELECTRICAL: Provide outlets above backsplash for home type appliances (coffee pot, microwave, etc.) in addition to receptacles required by the code. Provide outlet for refrigerator. Electrical outlets, phone lines, cable TV outlets, and intercom to be provided. A minimum of 4 voice/data ports (1 per wall) shall be provided.

  Provide GFI outlet for 2 vending machines.

- LOCKERS: Half-height, “z-locker”, lockable (padlocks) wall lockers, with sloped tops secured to the wall, with a minimum size of 15” x 15”, shall be provided in this area (total of ten (10) lockers in the small CDC, 14 lockers in the medium CDC, and 16 lockers in the large CDC). Each locker unit shall be 72” H. Lockers shall be sealed to the adjacent walls and floor. Z-lockers shall be lockable with individual padlocks, not with combination, key pad or keyed locks.

22. SPACE: Central Storage

- The following criteria is in addition to the General Requirements provided above.

- FUNCTIONAL DESCRIPTION: Space for storage of program material.

- ADJACENCIES: Directly accessible from the corridor.

- DOORS/FRAME: Salient characteristics include; durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with
closers. Door shall be fitted with a locking mechanism (See Chart above.) and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass.

- **ELECTRICAL:** Lighting shall be manually controlled by a switch within the room.

- **SPECIAL REQUIREMENTS:** Shelving shall be provided on at least 2 walls. Four (4) adjustable shelves with heavy-duty standards and brackets will be provided on each wall and shall consist of two (2) 18” deep shelves and two (2) 12” deep shelves. Shelving shall be able to support 100 pounds per lineal foot.

Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

### 23. SPACE: VSS Equipment Room

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** VSS video monitoring system to deter and reduce the risk of child abuse and protect staff from unwarranted allegations of abuse. Room to accommodate Video Surveillance System (VSS) System Equipment Rack (SER) for camera system throughout the facility.

- **ADJACENCIES:** Shall be directly accessible from the corridor.

- **OCCUPANTS:** Staff.

- **DOORS/FRAME:** Doors shall be a minimum of half-height glass.

- **HVAC:** Supply cool, conditioned air to space to protect the heat generating equipment. Ideal operating temperature of VSS Room is 68-72 degrees F. Maximum sustained operating temperature is 85 degrees F.

- **ADDITIONAL INFORMATION:** The building construction contractor provides the conduit, boxes and power to every camera location indicated on the standard plans. Refer to General Information paragraph 7 for additional information.

### 24. SPACE: Kitchen

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** Commercial grade facility designed for use by staff to meet the food service needs of children, 6 weeks to 5 years of age, in accordance with the United States Department of Agriculture and Preventive Medicine Regulations

- **ADJACENCIES:** Directly accessible from the corridor. Direct access to exterior.
• **OCCUPANTS:** CDC kitchen staff.

• **FLOOR and BASE:** Salient characteristics include; resistance to slipping, durable, non-porous and hard surface resistant to scrapes and stains and easy to clean. Quarry tile shall be raised diamond pattern quarry tile with grease and acid resistant epoxy grout.

• **WALLS:** Walls of all areas where food establishment operations are conducted shall be constructed to be light colored, durable, easily cleanable, non-absorbent and smooth. Mortar, and epoxy grout joint materials shall be waterproof, grease-proof, and erosion resistant. Water-resistant gypsum wallboard protected by a cement backerboard or green board shall be used to sheath stud walls. Wall finish shall be full-height ceramic wall tile. Tile color shall be white or off-white with matching grout. All outside corners of interior walls shall be protected stainless steel corner protective guards extending at least 72” above the finished floor.

• **CEILING:** Salient characteristics include; easy to clean, ease of accessibility to mechanical system above ceiling, and ease of repair. Ceilings shall be aluminum acoustical ceiling grid, 2’ by 2’, supporting vinyl faced acoustical lay-in panels.

• **DOORS/FRAME:** Hold-open devices of any kind (wedges, door stops, magnetic hold-open devices, etc.), shall not be used on any kitchen doors. Exterior door shall be minimum 40” wide. Doors shall be provided with closers.

• **AIR CURTAIN:** Provide one (1) air curtain to control flying insects mounted on the inside wall above the exterior kitchen door. Air curtain shall be directed to blow pests away from building entrance. Air velocity, measured 3’ above the floor, shall be at least 1,600 fpm.

• **HVAC:** Two (2) ventilation exhaust hoods are required. One (1) condensation hood over the dishwashing machine, and one (1) over the cooking equipment. Ensure adequate make up air is provided.

• **ELECTRICAL:** In addition to electrical requirements for kitchen equipment, electrical outlet and voice/data port to be provided to accommodate a computer and phone in kitchen for placing food orders on-line. An intercom and a phone jack for a phone are required. Fluorescent and/or LED lighting that allows an accurate assessment of food coloration shall be provided.

• **PLUMBING:** Hot and cold water shall be provided for 3 compartment ware washing sink, 2 compartment food preparation sink, 2 each hand washing sinks, cart washing area, dishwasher, convection steamers, 2 booster heaters, garbage grinder, and garbage disposal. Water shall be provided for a commercial icemaker. Floor drains with a self-priming trap, to include floor sinks, shall be provided.

A grease trap (interceptor) is not required in a CDC facility as no grease is produced in the food prep and cooking operations. A grease trap may be required by the garrison. If provided, grease traps shall not be located inside the building without prior written approval of the MEDCEN/MEDDAC Commander. Grease traps must be located underground and shall not be located within the fenced area.
• **FIRE PROTECTION:** Provide wet chemical fire suppression system and fire extinguisher for the commercial cooking equipment in accordance with NFPA 96 and NFPA 17A. The manual activation device for the wet chemical fire suppression system shall be on the path of egress and spaced a minimum of 10’ and a maximum of 20’ from the protected hood exhaust system. Smoke detectors shall NOT be provided for the kitchen. (NOTE: If the kitchen dry storage room is fully enclosed a smoke detector will be required.)

• **SPECIAL REQUIREMENTS:** Where shelving is provided, a red tile line must be provided in accordance with Storage Height Limitation Line requirements in section 6 of the General Information above. Kitchen equipment shall be commercial equipment, NSF approved. Kitchen plans and schedules are provided below. The kitchen may be flipped in plan if desired. A milk dispenser may be provided (Government Furnished, Government Installed) if desired by the Installation. It would be located on Work Table 11 (A11, B11, C11). An acceptable option is to replace the Steamer and the Convection Oven with two (2) Combo-Ovens (which functions as both a steamer and a convection oven). In the plans below, these are items A20, A21, B20, B21, C20, C21. Electric range is preferable to a gas fueled range.
### EQUIPMENT LIST

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## Equipment List

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### Kitchen Equipment

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24A. SPACE: Dry Food Storage

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Storage for dry food goods. Located within a fully enclosed room and directly accessed from the Kitchen.
- **OCCUPANTS:** Cook and Staff
- **FLOOR and BASE:** Salient characteristics include; resistance to slipping, durable, non-porous and hard surface resistant to scrapes and stains and easy to clean. Quarry tile shall be raised diamond pattern quarry tile with grease and acid resistant epoxy grout.
- **WALLS:** Walls of all areas where food establishment operations are conducted shall be constructed to be light colored, durable, easily cleanable, non-absorbent and smooth. Mortar, and epoxy grout joint materials shall be waterproof, grease-proof, and erosion resistant. Water-resistant gypsum wallboard protected by a cement backerboard or green board shall be used to sheath stud walls. Wall finish shall be full-height ceramic wall tile. Tile color shall be white or off-white with matching grout. All outside corners of interior walls shall be protected stainless steel corner protective guards extending at least 72” above the finished floor.
- **CEILING:** Salient characteristics include; easy to clean, ease of accessibility to mechanical system above ceiling, and ease of repair. Ceilings shall be aluminum acoustical ceiling grid, 2’ by 2’, supporting vinyl faced acoustical ceiling panels.
- **DOORS/FRAME:** Door shall be provided with self-closing device.
- **FIRE PROTECTION:** Provide smoke detectors in this area. (Note: If the storage room is not enclosed, then a smoke detector is not required.)

25. SPACE: Laundry Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area to launder and fold clothes and linens (side by side laundry equipment provided by others).
- **FLOOR and BASE:** Flooring shall be quarry tile or other hard, durable, non-porous, non-slip surface. Alternatives to quarry tile must be submitted for approval prior to completion of design documents. An epoxy grout shall be used and shall be sealed or treated to avoid stains.
- **WALLS:** Salient characteristics include; easy to clean, repairable, easy to maintain, and durable. Walls shall be able to withstand the warm humid environment, and shall be able to withstand being bumped by laundry carts.
• **CEILING:** Salient characteristics include; easy to clean, ease of access to mechanical system above ceiling, moisture resistant, and easy to repair.

• **DOORS/FRAME:** Frame, door, and hardware to have a 45 minute fire rating in accordance with NFPA 80. Both door and frame shall have proper label indicating rating.

• **ELECTRICAL:** Provide proper outlets for the number of washers and dryers specified. Small facilities will have 2 washers and 2 dryers. Medium and large facilities will have 3 washers and 3 dryers.

• **PLUMBING:** Plumbing for laundry tub and washers. A floor drain is required in this area that shall have a self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Laundry tub shall be a free-standing unit, minimum of 20" x 20" x 16" deep.

• **CABINETRY:** Salient features include ease of cleaning, maintenance and repair with hard and smooth surface. Minimum 6 foot wide base and wall cabinets with 1 stainless steel hand washing sink. Cabinets will be constructed of AWI custom grade, minimum 5-ply hardwood veneer core plywood (particle board and MDF is not acceptable) finished with plastic laminate. Counter top shall be 34” AFF with integral back splash, and shall be solid surface quartz. Install wall storage cabinets above the washer and dryer.

• **FIRE PROTECTION:** Must be a 1-hour fire rated enclosure. All penetrations of the fire rated enclosure shall be fire caulked IAW NFPA requirements. If the washer plumbing connection box is recessed within a rated wall assembly, the box shall be 1 hour rated. If the walls required to be 1 hour rated do not extend to, and are not sealed to the bottom of the roof deck, then the ceiling must meet the same fire ratings as the walls. Smoke detector shall be provided in this area.

• **SPECIAL REQUIREMENTS:** Dryer vents shall be individually and directly vented to the outside. A non-inline booster fan shall be provided for each dryer vent in accordance with the latest version of the International Mechanical Code (IMC). Install Intercom connection.

### 26. SPACE: Outreach/Transitional Care Activity Room

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION:** Activity Room that functions for child care; includes eating, sleeping, playing, and other activities. Room accommodates children on a short term occasional basis (e.g. child care for deployment support, Family Readiness Groups, etc).

• **ADJACENCIES:** Shall be adjacent to the corridor and shall have direct access to the exterior. Direct access to age-appropriate playground is also required. Shall have direct access to storage room.

• **OCCUPANTS:** Two (2) Program Assistants and a maximum of 24 Children (depending upon age of children).
• **MINIMUM AREA:** (See Chart above.) Program Area may NOT be any less than 840 SF. Program area is area that can be used for children’s activities. Areas such as circulation cannot be counted as program area. See attached drawing for calculation of Program Area. Hatched area indicates portions of room that can be included in the minimum Program Area. Program area is calculated differently than net area or gross area.

• **FLOOR and BASE:** Base shall be seamless except at inside corners. Base shall be sealed to floor with USDA or NSF approved caulking.

• **WALLS:** Wall material shall have the ability to absorb pushpins. Wall surface shall be able to withstand tape peeling. Where drinking fountains and/or lavatories are provided within the Activity Room space, a minimum 48” tall or to the bottom of the cap on the wing wall, whichever is higher, wainscot that is impervious to water and able to withstand daily sanitizing is required. This material shall extend to the floor and at least 18” horizontally in both directions from the centerline of the equipment. As illustrated in the diagram below, the walls around the toileting area shall be 4’-2" tall.

• **DOORS/FRAME:** All doors shall be provided with finger guards at the hinges, on the Activity Room side, up to a minimum height of 48”. Finger guard shall be roll type. On exterior doors, finger guards shall not conflict with weather stripping. Interior doors shall be a minimum of half-height glass, with a clear width opening of 32” and shall be provided with a 12-inch wide sidelite on the latch side of the door. Exterior door shall be provided with flush panic hardware, shall be provided with self-closing device, shall have a clear width opening of 32”, open at least 110 degrees to ensure ease of crib emergency evacuation, and direct exiting onto the outdoor play space. Exterior door shall be provided with a hold-open device as part of the self-closing device. Exterior doors shall be a minimum of half-height glass. Interior and exterior doors shall swing in the direction of exit travel. Door thresholds and hardware will be designed to facilitate the exit of a crib containing five (5) infants by a single adult. The thresholds will have a low profile.

• **EXTERIOR WINDOWS:** Provide at least (2) exterior windows.

• **VISION PANELS/VIEW WINDOWS:** At least (1) view window must be provided between this activity space and the corridor. In addition, not less than (2) vision panels must be provided between this activity space and the corridor.

• **CABINETRY:** Salient characteristics include; easy to clean, maintain and repair. Cabinets shall be durable and be able to withstand impact (example: food carts), without showing damage. Cabinets shall be a minimum of Architectural Woodworking Institute (AWI) 400B, Custom Grade, High Pressure Laminate clad. Counter top shall have integral back splash, and shall be solid surface quartz. Counter tops of cabinets will have rounded/radius corners and edges.
  • A 3’-6” wide sign-in desk with 6 lockable storage units (each keyed separately) in an overhead cabinet, and an adjacent 18” wide coat closet. Refer to illustrations under General Requirements.
  • 8 foot wide base and wall cabinets with 2 stainless steel sinks. Sinks shall be separated as much as possible, and shall be provided with gooseneck faucets. Sink bowls shall be a minimum of 21” W x 15-3/4” D x 8” H. Space shall be provided for an under counter refrigerator. Consider providing 2 – 36" W base cabinets with a 2’ space between for the
refrigerator. Base cabinets shall be lockable, and may not have a protruding handle. All base cabinets in the facility shall be keyed alike.

- 24 pre-school cubbies, 12” wide x 15” deep x 48” tall permanently attached to walls (pre-manufactured). Provide upper shelf for hats and gloves and an open area at the base for boots and shoes and two (2) coat hooks in the middle section. Provided by Building Contractor.

**ELECTRICAL:** All electrical outlets, except for those mounted above countertops, shall be mounted 54” above the finish floor. Outlets provided above countertops shall be located no less than 18” from the edge of the countertop. Two (2) electrical outlets to be provided above the backsplash (food preparation/art counter/sink), one (1) over each open counter area. Electrical outlet to be provided for under the counter refrigerator. Electrical outlet, data port, intercom, and phone connection at sign in desk to be provided. Provide task lighting at sign in desk, installed on underside of upper cabinets. A minimum of 2 (two) outlets will be provided above the cubbies in the program area and will be mounted between the vision panels. A minimum of 4 (four) duplex outlets will be installed, evenly spaced, on the exterior wall and the wall opposite the toilet area. In addition, provide 2 (two) voice/data outlets in the activity area. A minimum of five (5) blank outlet covers will be provided but not installed. GFI outlets shall be provided as required by Code.

Provide lighting with dimming (continuous, flicker-free dimming from 100% to 10%) or a multilevel switching scheme (with one inboard lamp switched separately from outboard lamps to provide distinct, evenly distributed lighting levels.) Lighting within the child activity rooms must; sign-in desk and toilet be zoned together; and either an additional 2 zones or lamp control within the activity space, to allow different lighting levels for nap time and activity times. A minimum of 0.1 lumen must be maintained in the activity room to allow for camera operation.

Intercom device and telephone required as described in the General Requirements above.

**PLUMBING:** A drinking fountain is required on the wall outside the toilet area, as shown in the following diagram, mounted 20” AFF to the rim. Plumbing for toilet/lavatory area, diaper changing table, and food preparation/art counter/sink area is also required.
27. SPACE: Outreach/Transitional Care Storage Room

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** Storage room to support the Outreach/Transitional Care Room.

- **ADJACENCIES:** Shall be directly accessible from the Outreach/Transitional Care Room.
• **OCCUPANTS:** CDC Staff.

• **ELECTRICAL:** A minimum of 1 (one) electrical outlet is required. Lighting shall be manually controlled by a switch within the room.

• **SPECIAL REQUIREMENTS:** Shelving shall be provided on 3 walls. A minimum of three (3) adjustable shelves with heavy-duty standards and brackets will be provided on each wall. At least one (1) 18” deep shelf and two (2) 12” deep shelves shall be provided on each wall. Shelving shall be able to support 100 pounds per lineal foot.

Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

28. **SPACE:** Outreach/Transitional Care Toilet Area

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION:** Toilet area for CDC children.

• **ADJACENCIES:** Shall be directly accessible from the Outreach/Transitional Care Room

• **OCCUPANTS:** CDC Children with staff assistance.

• **FLOOR and BASE:** Ceramic or porcelain tile floor and base. Flooring shall be slip resistant.

• **WALLS:** On all walls, a minimum 48” tall or to the bottom of the cap on the wing wall, whichever is higher, ceramic or porcelain tile wainscot is required.

• **TOILET PARTITIONS:** Top of toilet partitions shall be no higher than 48” tall with 12” clear opening at bottom. Stall doors to be provided.

• **PLUMBING:** Two (2) pediatric floor mounted water closets (one 10”-11” to rim, and one child ABA), two (2) child wall mounted lavatories (one 17” AFF to the rim, one 20” AFF to the rim) and diaper changing station to be located opposite the water closets. Stall doors shall be provided as shown in the drawing. The 10” water closet to be located in the smaller stall, with the 17” lavatory located within the toilet area. The 20” lavatory shall be located around the corner. A floor drain is required in this area that shall have a self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Provide toilet seats. Dual flush valve toilets are allowed; however, automatic flush valves are not allowed.

For the sinks in the toilet area (NOT the sinks in the food prep/arts and crafts area), faucets shall be pre-mixed single push control that meets ABA requirements. Water shall run for at least 15 - 20 seconds.
• **HVAC:** Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided directly over the toilets.

• **ELECTRICAL:** No electrical receptacles are allowed in this area.

• **SPECIAL REQUIREMENTS:** Mirrors required above each lavatory. Mirrors shall be a tempered safety glass mirror, with stainless steel surround, including clear film applied to mirrored surface to retain glass pieces, if somehow the tempered mirror is cracked accidentally.

The toilet stalls with the 13”-14” high toilet and the lavatory mounted at 20” AFF shall meet child ABA requirements. Reference the floor plan for accessible door location. Distance between toilet partition and lavatory/wing wall shall be 33” to facilitate side approach to the lavatory.

29. **SPACE: Active Play Room**

• The following criteria is in addition to the General Requirements provided above.

• **FUNCTIONAL DESCRIPTION:** An active indoor play area for CDC children to utilize during inclement weather/temperature extremes.

• **OCCUPANTS:** Program Assistant(s) and CDC children.

• **MINIMUM AREA:** (See Chart above). See attached drawing for calculation of net Program Area. Hatched area indicates portions of room that can be included in the minimum net Program Area. For this space, program area is the same as net area.

• **FLOOR and BASE:** Athletic flooring

• **WALLS:** Salient characteristics include; easy to clean, repairable, easy to maintain, and durable. Wall surface shall be able to withstand tape peeling. Walls shall be hardened to withstand impacts from balls, trikes, etc. Where a wall of the Active Play Room is shared with an occupied space, the wall shall be designed to have a minimum STC rating of 55.

• **CEILING:** Salient characteristics include; durability to withstand impact from balls. In addition, ceiling shall provide acoustical control. At least 75% of the ceiling area shall be at least 9’ high.

• **DOORS/FRAME:** All doors shall be provided with finger guards at the hinges, on the Activity Room side, up to a minimum height of 48”. Finger guard shall be roll type. On exterior doors, finger guards shall not conflict with weather stripping. Interior doors shall be a minimum of half-height glass, with a clear width opening of 32” and shall be provided with a 12-inch wide sidelite on the latch side of the door. Exterior door shall be provided with flush panic hardware, shall have a clear width opening of 32”, and direct exiting onto the outdoor play space. Exterior doors shall be a minimum of half-height glass. Interior and exterior doors shall swing in the direction of exit travel. Doors shall be provided with self-closing device.
- **EXTERIOR WINDOWS:** Provide at least (3) exterior windows. Window sills in this room shall be flush with the wall, and not protrude into the space.

- **VISION PANELS/VIEW WINDOWS:** At least (1) view window and (2) vision panels must be provided between this space and the corridor.

- **ELECTRICAL:** All electrical outlets shall be mounted 18” above the finish floor. An intercom is required. The location of the intercom shall be in the corner by the door.

Provide lighting with dimming (continuous, flicker-free dimming from 100% to 10%) or a multilevel switching scheme (with one inboard lamp switched separately from outboard lamps to provide distinct, evenly distributed lighting levels.)

Intercom device and telephone required as described in the General Requirements above.

- **SPECIAL REQUIREMENTS:** For safety reasons, no outside corners may occur in this space. Cased openings shall be provided with resilient corner guards or shall be rounded. Door hardware shall be designed to reduce injury from impact.

Provide protective covers over all sprinkler heads, fire alarm/MNS strobe lights and speakers, exit signs, and fire alarm manual pull stations. This would also include HVAC thermostats.
30. SPACE: Active Play Storage Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Storage room to support the Active Play Room.
- **ADJACENCIES:** Shall be directly accessible from the Active Play Room
- **OCCUPANTS:** CDC Staff.
- **ELECTRICAL:** A minimum of 1 (one) electrical outlet is required.
  Lighting shall be manually controlled by a switch within the room.

**SPECIAL REQUIREMENTS:** A minimum of four (4) adjustable shelves with heavy-duty standards and brackets will be provided on 3 walls. At least two (2) 18” deep shelves and two (2) 12” deep shelves shall be provided. Shelving shall be able to support 100 pounds per lineal foot.

Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

31. SPACE: Active Play Toilet Area

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** A child ABA-compliant toilet area for CDC children.
- **ADJACENCIES:** Shall be directly accessible from the Active Play Room
- **OCCUPANTS:** CDC Children with staff assistance.
- **FLOOR and BASE:** Flooring shall be slip resistant.
- **WALLS:** On all walls, a minimum 48” tall or to the bottom of the cap on the wing wall, whichever is higher, ceramic or porcelain tile wainscot is required.

**TOILET PARTITION DOOR:** A toilet partition and door will be used in lieu of a standard wall and door at the entrance to the Active Play Room Toilet. No toilet partitions are required within the toilet room. Top of toilet partition door shall be no higher than 48” tall with 12” clear opening at bottom. Door shall be minimum of 32” clear opening to meet ABA.

**PLUMBING:** One (1) pediatric water closet (child ABA), and one (1) child lavatory (20” to rim). A floor drain is required in this area that shall have a self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Dual flush valve toilets are allowed; however, automatic flush valves are not allowed.
Sink faucet shall be pre-mixed single push control that meets ABA requirements. Water shall run for at least 15 - 20 seconds.

- **HVAC:** Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided directly over the toilets.

- **ELECTRICAL:** No electrical outlets are allowed in this area.

- **SPECIAL REQUIREMENTS:** A mirror is required above the lavatory. Mirror shall be a tempered safety glass mirror, with stainless steel surround, including clear film applied to mirrored surface to retain glass pieces, if somehow the tempered mirror is cracked accidentally.

### 32. SPACE: Nursing Mother’s Room

- The following criteria is in addition to the General Requirements provided above.

  - **FUNCTIONAL DESCRIPTION:** Individual private space for a nursing mother to provide care to their child. Space for rocking chair and side table.

  - **ADJACENCIES:** Shall be directly accessible from the Corridor.

  - **OCCUPANTS:** One child and one adult.

  - **CABINETRY:** Two (2) 24” wide base cabinets with door locks, minimum 30” wide clear open space under countertop and full width 34” high countertop. Salient characteristics include; easy to clean, maintain, and repair. Counter top shall have integral back splash, and shall be solid surface quartz. Counter tops of cabinets will have rounded/radius corners and edges.

  - **ELECTRICAL:** In addition to the outlets required by the NEC provide at least one (1) outlet on either side of the sink. Do not provide a ceiling light fixture.

  - **PLUMBING:** 1 adult ABA compliant approximately 22” x 18” x10” deep utility sink with a goose neck faucet.

  - **SPECIAL REQUIREMENTS:** Provide mirror and light above sink. No tile wainscot is required. Provide 20” wide by full length wall mounted mirror. Provide two (2) wall mounted coat hooks, one at 48” AFF and one at 60” AFF.

### 33. SPACE: Corridor(s)

- The following criteria is in addition to the General Requirements provided above.

  - **FUNCTIONAL DESCRIPTION:** Main Circulation Space

  - **WALLS:** Walls shall be smoke partitions constructed in accordance with NFPA 101 Chapter 8. Wall material shall have the ability to absorb pushpins. Wall surface shall be able to
withstand tape peeling. Also, wall surface shall be durable so that impacts from buggies and carts do not damage the wall.

- **DOORS/FRAME:** All doors that open from normally occupied spaces, into the corridor, that are not located within a recessed alcove, must swing 180 degrees to avoid reducing the usable corridor width. Only infrequently-used doors, which includes janitor’s closet, electrical closets, and telecommunications closet doors may open into the corridor without either a recess or a 180° door swing. Doors leading to the outside from the corridor must also be provided with a sidelite. All doors opening into the corridor are required to have self-closing devices.

- **ELECTRICAL:** Outlets to be mounted 18” AFF.

- **PLUMBING:** Provide a wall-mounted EWC, 20” AFF to the rim, near the Active Play Room as shown on the drawings.

- **SPECIAL REQUIREMENTS:** Corridor SHALL have a minimum clear width of NO LESS THAN 6’-2”, to allow for bulletin boards, window/door frames, fire extinguisher cabinets, and other projections in order to maintain the minimum corridor width requirement of 6’-0”.

34. **SPACE: Utility Rooms (Mechanical, Electrical, Communications)**

- The following criteria is in addition to the General Requirements provided above. There spaces are primarily driven by code and installation requirements. Since Children and CDC Staff do not have access to these areas, there are not program specific requirements for these spaces.

- **OCCUPANTS:** DPW and related personnel – No CDC Staff or Children.

- **DOORS/FRAME:** Salient characteristics include; durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with closers. Door shall be fitted with a locking mechanism (See Chart above) and lever type handle or other hardware as required by DPW. Exterior doors into these areas may be flush type (no glass). It is preferred that these rooms only open directly to the exterior, away from staff and children. However, in some cases additional electrical and communications rooms must be provided within in the facility. Whenever one of these spaces opens into the facility, the door must be minimum of half-height glass.

- **Wall:** Walls of Mechanical Room shall be smoke partitions.

- **FIRE PROTECTION:** For the Mechanical Room only, smoke detectors shall not be provided unless the Fire Alarm/MNS panels are located in this area. Then only 1 smoke detector shall be provided, located above the FA/MNS panels in accordance with NFPA 72.
35. SPACE: Playground/Outdoor Play Areas

- **GENERAL.** Outdoor play areas (playground) serve as extensions of classroom spaces and must be provided to support programming. Playground is to be divided into individual areas to accommodate the different age groups occupying the facility. Three (3) separate play areas are required for various age groups of children. In general, these areas will serve: infant/pre-toddler, toddler/preschool, and pre-kindergarten/kindergarten. Installation input is required to finalize the age groups to be served by each playground. The playground area is capable of supporting 50% of the children at any given period of time at a minimum of 100 sq. ft. per child using the outdoor play space. Playground installation must be in accordance with the current versions of Consumer Products Safety Commission (CPSC) Handbook for Public Playground Safety, all applicable American Society for Testing and Materials (ASTM) standards, and ABA requirements as adopted by DoD.

Specific play areas are defined by several elements. Elements include circulation paths, open play areas/natural turf, age appropriate equipment, play structures, natural components, fall attenuation material for use zones, and fencing. Shade in the outdoor play areas is a requirement, and must be provided as shown in the Playground Equipment list below.

Contractor shall provide written documentation that playground meets those standards and has been inspected by an independent Certified Playground Safety Inspector (CPSI) prior to turning over to the Government. Documentation of installation and inspection shall be maintained by the Installation CYS staff.

- **AREA.** Minimum area of playgrounds shall be as follows:
  - Small – 6,300 square feet
  - Medium – 11,600 square feet
  - Large – 16,900 square feet

- **EXITS.** All Activity Rooms (Infant/Pre-Toddler/Toddler, Pre-school/Pre-K/Kindergarten, Transitional Care, and Active Play Room) MUST exit directly to the fenced playground area. Exit gates shall be provided with adult controlled securing device to allow access for emergency and maintenance vehicles as well as egress from building to a safe, open area at least 50' away from the building.

- **SAFETY SURFACING.** A playground safety surface shall be provided throughout all use zones and under all play equipment. The safety surface will be unitary or poured in place material and shall be light in color to lessen the possibility of injury due to extremely hot surfaces. Rubber matting at foot contact point underneath the swings is strongly recommended to extend the life of the safety surfacing material. Beneath the infant swings, a unitary safety surface will be used.

  Safety surfacing shall not terminate at sod. It shall terminate at a sidewalk or have curbing to prevent damage to surfacing from lawn care equipment.

- **TRIKE PATHS.** Trike paths are a requirement and dual function as an evacuation route, as well as, a play element. A portion of the trike path must provide direct access to a gate in the exterior fence. This gate must be located no less than 50’ from the building in any direction. The portion of the trike path leading to this gate must be smooth with no rumble.
strips. Other portions of the trike paths shall provide some different textures such as rumble strips, etc. Trike paths must be a minimum of 5’ wide and shall be of concrete. Trike paths shall NOT be made of, or covered with, safety surfacing. Refer to drawings below for examples that meet these requirements.

A set of rumble strips in a minimum of two (2) locations must be provided in the trike path in each playground. Rumble strips shall be created by sawing the concrete path, perpendicular to the direction of travel. Cuts shall be between 1/8” and 1/4” deep, at least 1/4” wide, 2”-3” on center apart, and end within 3” of the edge of the sidewalk. Stamped concrete or exposed aggregate are acceptable alternatives to the cut strips. Lengths of sections of rumble strips, or approved alternative, shall be no less than 3’ in the direction of travel. Do not provide rumble strips on the direct exit route for cribs in the Infant Playground area.

- **FENCING.** Outdoor Play Area must be entirely fenced. The three (3) playgrounds must be connected within the overall fenced area, but must be separated by fencing and gates.

All fencing must be vinyl coated chain-link security type minimum 4’ high at the perimeter and 4’ high to sub-divide play areas by age group. The guide wire at the bottom, and the wire fasteners used to secure the fence fabric to the poles, top rail, etc., shall also be vinyl coated. Fencing will have gates between the play areas. Bolt threads, nuts, and ends of wire fasteners shall face away from the playgrounds. Where fence fabric bolt threads and nuts are required to face a playground (generally between play areas), bolts will be trimmed to no more than two exposed threads and sharp edges will be dressed with a file. All wire fasteners used to secure the fence fabric to piping (poles, etc.), where the cut ends face an outdoor activity area, will be flush cut to reduce the introduction of cutting edges on the ends of the wires, and will be pointed downward. A top rail is required on the fence.

All gates shall open a minimum of 90 degrees in both directions (180 degrees total). Provide a minimum of one (1) gate within the perimeter fencing of each playground area. Fencing shall be installed so that there are no gaps, greater than 3” in height, under the fence that would allow animals to enter into the playground, or allow children to become trapped and crawl out of the playground. Fencing must comply with the current version of ASTM F2049.

- **PLANTS.** Poisonous or potentially harmful plants are prohibited in any part of a facility that is accessible to children. All plants not known to be nontoxic should be identified by name and checked with the “Peterson Field Guide – Venomous Animals and Poisonous Plants”.

- **ARTIFICIAL TURF.** No artificial turf may be used without a lead-free certification from the manufacturer as acceptable to IMCOM G9 CYS. Crumb rubber fill is prohibited.

- **FIRE DEVICES.** Fire alarm audio and visual devices shall be provided for each playground.

- **INTERCOM.** Each playground must be provided with a weather-proof intercom unit.

- **TRIP HAZARDS.** There shall be no tripping hazards in the playgrounds. Mechanical and electrical equipment, as well as manholes, clean-outs, or other plumbing access may NOT be located within the fenced playground area.
• **APPROVALS.** Playground design must be reviewed by garrison CYS staff and approved by IMCOM G-9 CYS. Playground installation must be in accordance with the CPSC and all applicable ASTM standards. Contractor shall provide written documentation that playground meets those standards and has been inspected by a Certified Playground Safety Inspector (CPSI) prior to turning over to the Government. Documentation of installation and inspection shall be maintained by the garrison CYS staff.

• **DRINKING FOUNTAINS.** Due to maintenance concerns, exterior drinking fountains or EWC will NOT be provided in the playgrounds.

• **PLAYGROUND EQUIPMENT.** When selecting equipment as part of a new construction project, be sure to clarify what will be installed and what will be left portable. Portable items can be moved to change the outdoor environment to help keep it interesting, support curriculum, and allow staff to take advantage of the shifting shade. Specific items listed on the following pages are provided for information only to illustrate the minimum requirements. Where possible, equipment should reflect the local heritage. A professional playground designer should be consulted to ensure equipment is age appropriate, required use zones are met and the design meets the current versions of CPSC Handbook for Public Playground Safety, all applicable ASTM standards, and ABA requirements as adopted by DoD.

  The crossbars for swings shall be 7'-0” above the play surface to the top of the bar and shall be a minimum of 3.5” in diameter. Bucket and belt swings shall be light colored to reduce the likelihood of burns. Shade structures shall be minimum 8'-0” at the entry edges of the shade. See plans and list below for requirements for playground equipment.

• **NOTE:** The following charts list the recommended playground equipment for the Small, Medium, and Large size facilities. Following the equipment lists are design concept drawings for the Medium size (232 capacity) 0-5 CDC only. Use the design concepts shown in the drawings for the Medium to design a Small or Large playground, providing the equipment required within the authorized square footage.
## PLAYGROUND EQUIPMENT

<table>
<thead>
<tr>
<th>SMALL CDC FACILITY:</th>
<th>INFANT/PRE-TODOllER</th>
<th>TODDLER/PRESCHOOL</th>
<th>PRE-KINDER/KINDERGARTEN</th>
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<tbody>
<tr>
<td><strong>Trike Paths:</strong> as a minimum, surround the play structure &amp; provide Rumble Strips on min. 2 sides of trike paths. 1 building façade (farmers market, electric car charging station, police dept., club house, etc.). 2 different traffic signs (stop, yield, speed limit, etc.). <strong>Play Structure:</strong> 1 minimum -crawler, infant fun center, tot tree. <strong>Swings:</strong> 2 full bucket seats. <strong>2 Shade Structures:</strong> 20’x20’ to cover play structures &amp; 15’x15’ over crawler feature. <strong>Play Elements w/Nature Component:</strong> sod/turf, planters, water play, nature bowls, musical chimes, paint panels</td>
<td><strong>Trike Paths:</strong> as a minimum, surround the play structure &amp; provide Rumble Strips on min. 2 sides of trike paths. 2 building façades (farmers market, electric car charging station, police dept., club house, etc.). 3 different traffic signs (stop, yield, speed limit, etc.). <strong>Play Structure:</strong> Composite structure for min. 16 children, min. 2 platforms &amp; 2 slides or 1 slide &amp; 1 tunnel. <strong>Swings:</strong> 2 full bucket &amp; 2 belt seats. <strong>2 Shade Structures:</strong> 20’x20’ &amp; another one of sufficient size to cover the play structure. <strong>Play Elements w/Nature Component:</strong> sod/turf, nature bowls, musical instruments, elevated feature with covers for sand and manipulative play, planters, watermill, paint panels, drama deck.</td>
<td><strong>Trike Paths:</strong> as a minimum, surround the play structure &amp; provide Rumble Strips on min. 2 sides of trike paths. 4 building façades (farmers market, electric car charging station, police dept., club house, etc.). 4 different traffic signs (stop, yield, speed limit, etc.). <strong>Play Structures:</strong> Composite structure for min. 20 children, min. 4 platforms, 3 slides &amp; 1 other challenging rock or other climber. <strong>Swings:</strong> 4 belt seats. <strong>2 Shade Structures:</strong> 20’X20’ &amp; another one of sufficient size to cover the play structure. <strong>Play Elements w/Nature Component:</strong> sod/turf, nature bowls, musical instruments, planters, watermill, paint panels, elevated feature with covers for sand and manipulative play, drama deck.</td>
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## PLAYGROUND EQUIPMENT

### MEDIUM CDC FACILITY:

<table>
<thead>
<tr>
<th>INFANT/PRE-TODDLER</th>
<th>TODDLER/PRESCHOOL</th>
<th>PRE-KINDER/KINDERGARTEN</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trike Paths:</strong> as a minimum, surround the play structure &amp; provide Rumble Strips on min. 2 sides of trike paths. 1 building façade (farmers market, electric car charging station, police dept., club house, etc.). 3 different traffic signs (stop, yield, speed limit, etc.). <strong>Play Structure:</strong> 1 minimum - crawler, infant fun center, tot tree  <strong>Swings:</strong> 4 full bucket seats.  <strong>2 Shade Structures:</strong> 20’x20’ to cover play structures &amp; min 15’x15’ over crawler feature.  <strong>Play Elements w/Nature Component:</strong> sod/turf, planters, water play, nature bowls, musical chimes, paint panels</td>
<td><strong>Trike Paths:</strong> as a minimum, surround the play structure &amp; provide Rumble Strips on min. 2 sides of trike path. 3 building façades (farmers market, electric car charging station, police dept., club house, etc.). 3 different traffic signs (stop, yield, speed limit, etc.). <strong>2 Play Structures:</strong> a. Composite structure for min. 42 children, min. 5 platforms &amp; 3 slides. b. Interactive/creative play to include steps, seats, and other active features. Accommodate min. of 5 children at one time. <strong>Swings:</strong> 2 sets - 2 full bucket &amp; 2 belt seats. <strong>2 Shade Structures:</strong> 20’X20’ &amp; another one of sufficient size to cover the play structure.  <strong>Play Elements w/Nature Component:</strong> sod/turf, nature bowls, musical instruments, elevated feature with covers for sand and manipulative play, planters, watermill, paint panels, drama deck.</td>
<td><strong>Trike Paths:</strong> as a minimum, surround the play structure &amp; provide Rumble Strips on min. 2 sides of trike paths. 4 building façades (farmers market, electric car charging station, police dept., club house, etc.). 4 different traffic signs (stop, yield, speed limit, etc.). <strong>3 Play Structures:</strong> a. Composite structure for min. 20 children, min. 4 platforms, 3 slides &amp; challenging rock or other climber. b. Interactive/creative play to include steps, seats, and other active features. Accommodate min. of 5 children at one time. c. Climber <strong>Swings:</strong> 4 belt seats. <strong>2 Shade Structures:</strong> 20’X20’ &amp; another one of sufficient size to cover the largest play structure.  <strong>Play Elements w/Nature Component:</strong> sod/turf, nature bowls, musical instruments, planters, watermill, paint panels, elevated feature with covers for sand and manipulative play, drama deck.</td>
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## PLAYGROUND EQUIPMENT

<table>
<thead>
<tr>
<th>INFANT/PRE-TODDLER</th>
<th>TODDLER/PRESCHOOL (designed for the youngest of 2-5 age group)</th>
<th>PRE-KINDER/Kindergarten</th>
</tr>
</thead>
</table>
| **Trike Paths**: as a minimum, surround the play structure & provide Rumble Strips on min. 2 sides of trike paths. 2 building façades (farmers market, electric car charging station, police dept., club house, etc.). 3 different traffic signs (stop, yield, speed limit, etc.). **Play Structure**: 1 minimum - crawler, infant fun center, tot tree **Swings**: 4 full bucket seats. **2 Shade Structures**: 20’x20’ to cover play structures & one over crawler feature. **Play Elements w/Nature Component**: sod/turf, planters, water play, nature bowls, musical chimes, paint panels | **Trike Paths**: as a minimum, surround the play structure & provide Rumble Strips on min. 2 sides of trike path. 4 building façades (farmers market, electric car charging station, police dept., club house, etc.). 4 different traffic signs (stop, yield, speed limit, etc.). **4 Play Structures**:  
   a. Composite structure for min. 30 children, min. 4 platforms & 2 slides.  
   b. Interactive/creative play to include steps, seats, and other active features. Accommodate min. of 5 children at one time.  
   c. Structure with spiral slide, slide/tunnel, min. 3 platforms, accommodate min 30 children.  
   d. Interactive/creative play to include steps, seats, and other active features different from the other one. Accommodate min. of 5 children at one time.  
   Swings: 2 sets - 2 full bucket & 2 belt seats.  
   **2 Shade Structures**: 20’x20’ & another one of sufficient size to cover the play structure. **Play Elements w/Nature Component**: sod/turf, nature bowls, musical instruments, elevated feature with covers for sand and manipulative play, planters, watermill, paint panels, drama deck | **Trike Paths**: Two different trike paths. As a minimum, each surround a play structure. Rumble strips will be provided on min. 2 sides of trike paths. 5 building façades (farmers market, electric car charging station, police dept., club house, etc.). 4 different traffic signs (stop, yield, speed limit, etc.).  
   **4 Play Structures**:  
   a. Composite structure for min. 32 children, min. 4 platforms, 3 slides (at least 1 wave & 1 curved) & challenging rock or other climber.  
   b. Interactive/creative play to include steps, seats, and other active features. Accommodate min. of 5 children at one time.  
   c. Climber  
   d. Additional structure different from the other one for min. of 32 children. **Swings**: 2 sets – total of 6 belt seats.  
   **2 Shade Structures**: 20’X20’ & at least one other of sufficient size to cover the largest play structure. **Play Elements w/Nature Component**: sod/turf, nature bowls, musical instruments, planters, watermill, paint panels, elevated feature with covers for sand and manipulative play, drama deck |
Medium (232) CDC
Rendering of a CDC 0-5 Small, provided for information only. The intent is to provide a general 3D view of the building and site.