





DESIGN GUIDELINES

ABSTRACT

Detailed Standards for Future Re-Image, Remodel, Expansion or Reconditioning of Facilities



Guide Purpose

The purpose of this guide is to provide a standardized manual to the Grantee and their Delegate Agencies, from the beginning through the end, when the program administration decides to develop an improvement or remodel construction project.

Is a facilities, interiors and exteriors, basic design guide applicable to Head Start / Early Head Start Program.

Construction goals

The Head Start Program construction goal is to provide a facility where the children, their families and the community



receive a high-quality service. Facilities that provide healthy and safe environment to satisfy the needs of the children, their families, the staff, volunteers, community agencies and program administration.

Our, the designer, goal is to develop a design of environments that allows the teachers and teachers aids to focus on children learning and development; peaceful and enjoyable environments to rise the interest of involvement of the families and caregivers; spaces responsive to cultural and religious preferences. Design and built to show and demonstrate the high level of commitment of the Grantee and Delegate Agencies to provide appropriate centers, well planned and beautiful, whose appearance and functionality raise the value and attractiveness of the program offer to the community. Design through a child perspective, sensitive to a child height and focused on the experience to which we will expose them for their development and learning. Appropriate in space size, considering adult/child ratio, storage space and daily activities. Build with height quality materials, cost effective constructions and operation and accessible to special needs community

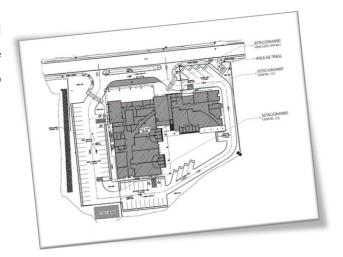




Design process

Delegate Agency must decide which are going to be the scope of the construction work to be done (re-image, remodel, expansions o reconditioning) based on these factors:

- Need
- Available space
- Budget
- Time for completion



RE-IMAGE

- Same structure
- Same site
- Same space distribution

REMODEL

- Same structure
- Same site
- Modifications of space distribution

EXPANSION

- Modification to add space
- Change space ditribution

RECONDITION

 Renovation of exisiting structure, usually a facility for other uses rather the HS

In the following pages you will find a useful tool to develop the plan and establish a scope of work that satisfied the needs in compliance with state and municipal laws, applicable regulations and, construction, safety codes; these include but are not limited to:

- Uniform Federal Accessibility Act (UFAS)
- International Building Code 2020 (IBC 2020) or current
- American with Disabilities Act (ADA) 2010 / American with Disabilities Act Architectural Guidelines (ADAGA)
- Historic Preservation Act (if applicable)
- Permits and licenses (Single Business Portal, OGPe)
- Individual with Disabilities Education Act (IDEA)
- Head Start Performance Standards 45 CFR 1304
- Head Start Design Guidelines (HSDG)







Development Core Values

The scope must be focused on Compliance, Value and Service.



Compliance

Centers must comply with applicable guidelines, laws, codes, and regulations.

Value

Design should enhance the presence of the facility and ensure the integration of the space with the Parent, Family, and Community Engagement (PFCE) Framework

Services

The design must project the high level of commitment that the Head Start Program has to provide appropriate, efficiently planned and beautiful centers; whose appearance and functionality promote participation, support recruitment and enrollment retention.





Design Guide - Detailed Standards for Future Improvements, Remodeling, Expansion or Reconditioning of Facilities





Design Check List — Compliance

Center services option

Head Start

- Pre-schooler
 - o 25" -40" average children height
 - o 37-to-60-month years old
- Typical classroom capacity
 - o 15 to 20 children
 - o 2 or 3 adults

Early Head Start

- Infant and toddlers children
 - o 18 22" average children height
 - \circ 0 18 month years old (infant)
 - 18 24 month years old (young toddlers)
 - 24 36 month years old (older toddlers)
- Environmental capacity
 - o 8 children
 - o 2 adults







HS Classroom

EHS Classroom

SQF per Classroom Usable Space

	Enrollment	Usable Space		
		Minimum required	Recommended	Preferred
	15	630	756	900
	16	665	798	950
	17	700	840	1000
	18	735	882	1050
	19	770	924	1100
	20	805	966	1150
	8	715	825	935

Usable floor space excludes floor area that is used for:

- Circulation (e.g., walkways around the activity area);
- Classroom support (e.g., staff work areas and activity equipment storage that may be adjacent to the activity area);
- Furniture (e.g., bookcases, sofas, lofts, block corners, tables and chairs);
- Center support (e.g., administrative office, washrooms, etc.)



















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HS Bathroom

- Bathrooms finish:
 - Wall tile 12" x 24", White, horizontally installed
 - Decorative accent 3" x 12", match pallet color

	Bathroom per classroom		
Enrollment	Child (One must be ADA compliance)	Adult (ADA compliance)	
15	2	1	
16	2	1	
17	2	1	
18	2	1	
19	2	1	
20	2	1	
8	1	1	

EHS Bathroom

ADULT BATHROOM

If the facility does not allow 1 adult bathroom per classroom:

• Must have accessible bathrooms ADA compliance. If there is more than one accessible bathroom at least one of the must be ADA compliance.

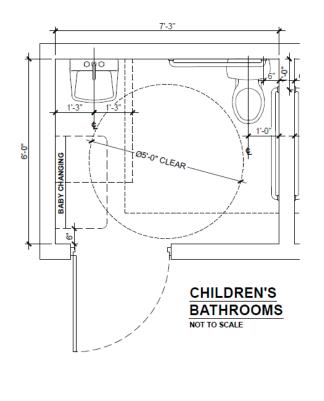
CHILDREN BATHROOM

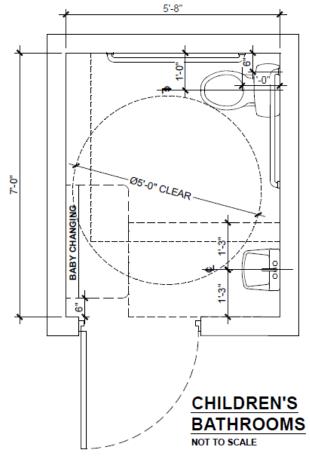
- Toilet 11"H
 - Not required for infant but recommended
- Sink 22"H / 16"D
- Diaper changing Station 36"H
 - o Separated from sleeping, playing and eating areas
 - With ladder
 - o Washbasin integrated or arm reachable
 - o Sufficient and accessible space to store belongings and supplies
 - o Provide Visibility
 - Provide Privacy
- Keyless lock 42"– 48"H

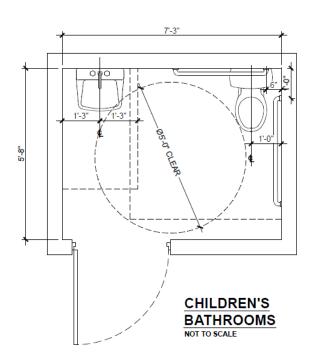












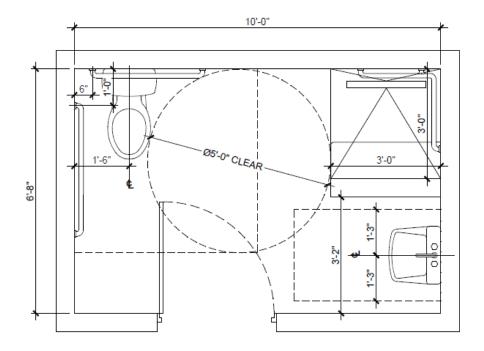
CHILDREN BATHROOM







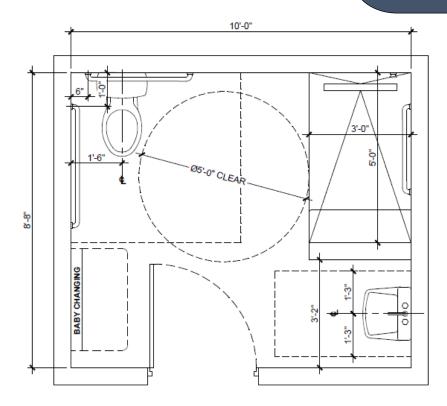




ADULT'S BATHROOMS

NOT TO SCALE

ADULT'S BATHROOM



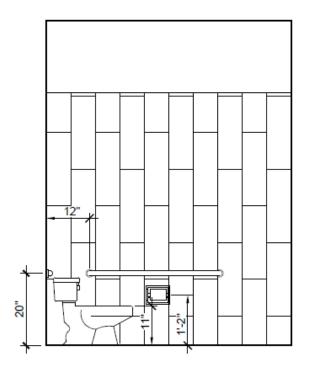
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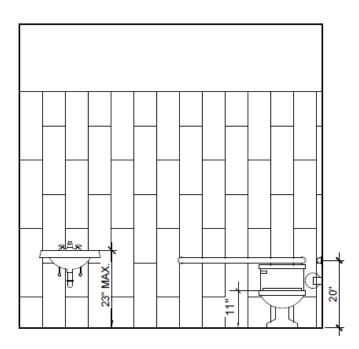






Elevation Child's Bathroom



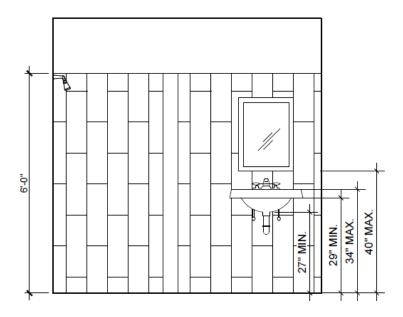


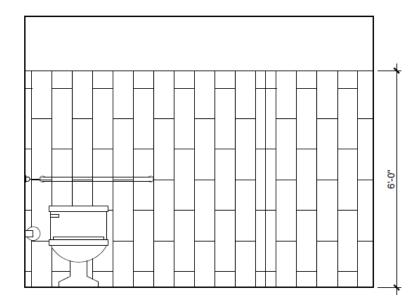






Elevation Adult's Bathroom











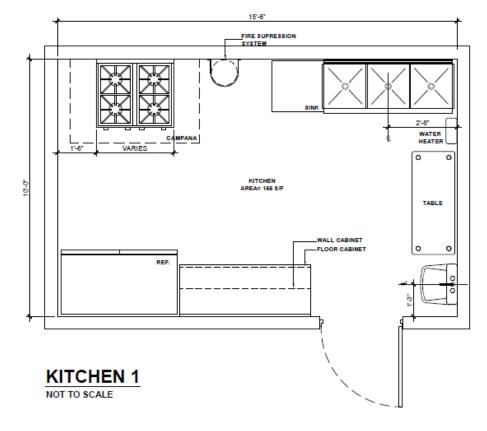
Kitchen

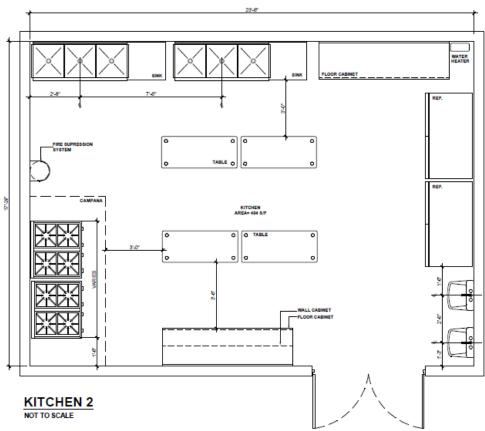
- Stove with exhaust fan and fire suppression system.
- Fridge and Freezer
- Three compartment sink with hot water
- Solid interceptor (grease trap)
- Sinks with hot water
- Water heater
- Dishwasher
- Microwave
- · Cabinets and service tables
- Table for appliances
- Good natural or artificial ventilation
- Food storage space
 - Epoxy covered racks for food storage
 - Platform to store water bottles
 - Desk with chair
 - File cabinets
 - Cabinet for toxic and disposable
 - Natural or artificial ventilation
 - Preferably with direct access to the outside
- Gas enclosure will depend on the stove outside
- Enclosure for garbage containers -outside
- Loading area or access for delivery













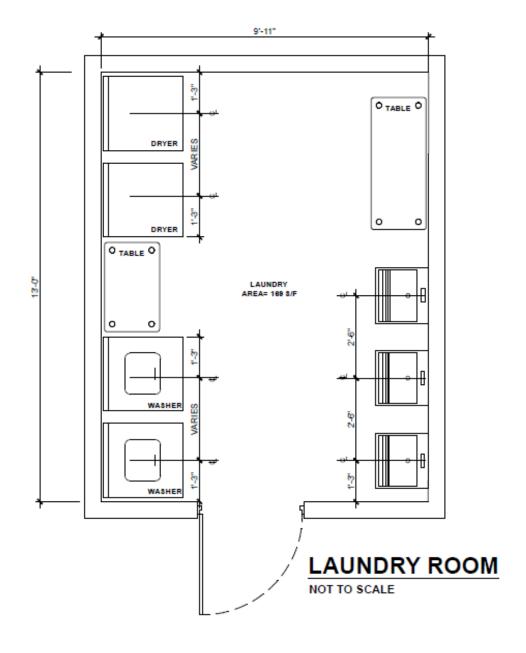






Laundry room

- Required in EHS (applies to HS resilient centers)
- Washer and dryer
- Storage/ Shelve area dirty clothes / clean clothes
- Toxic storage area

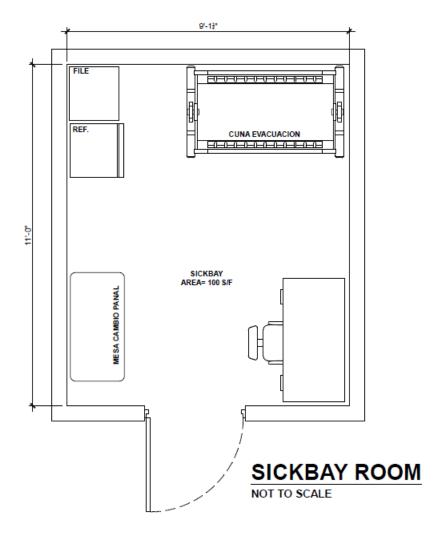






Sickbay

- Required in EHS (applies to HS resilient centers)
- Crib
- Diaper changing station
- Desk and chair
- File cabinet
- Refrigerator to store medicament
- Scale for infants and toddlers



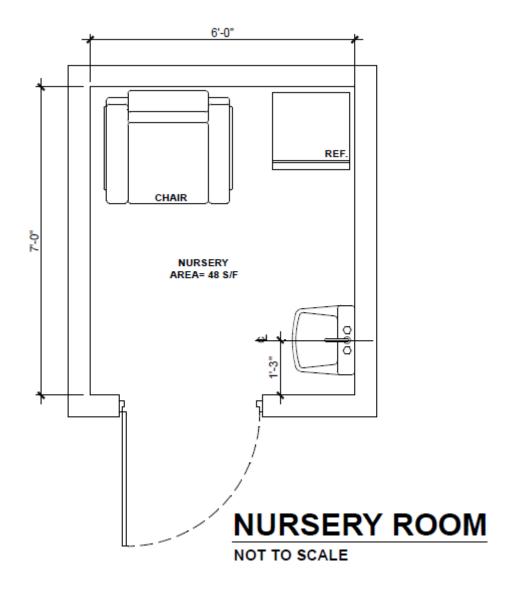






Nursing room

- Rocking chair
- Small fridge
- Radio or TV
- Sinks with hot water





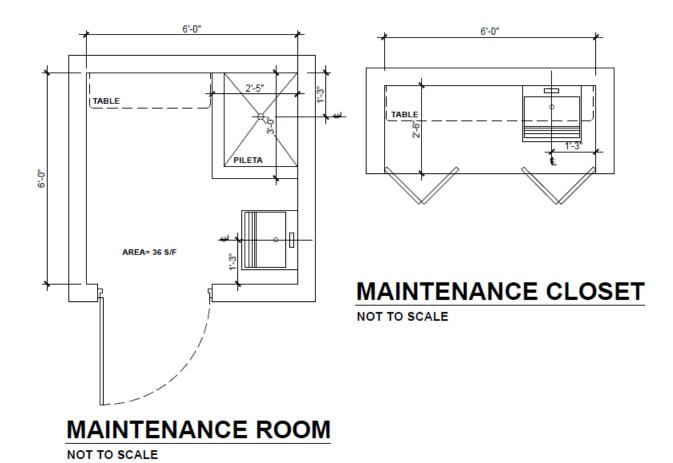


Service room

- Sink (pileta/fregadero)
- Mop sink
- Storage area for cleanser / other toxic product (not accessible to children and spill prevention)

Toy Sanitation area

- Sink (pileta/fregadero)
- Shelves for dirty toys and clean toys
- Separated from the service room







Design Guide - Detailed Standards for Future Improvements, Remodeling, Expansion or Reconditioning of Facilities





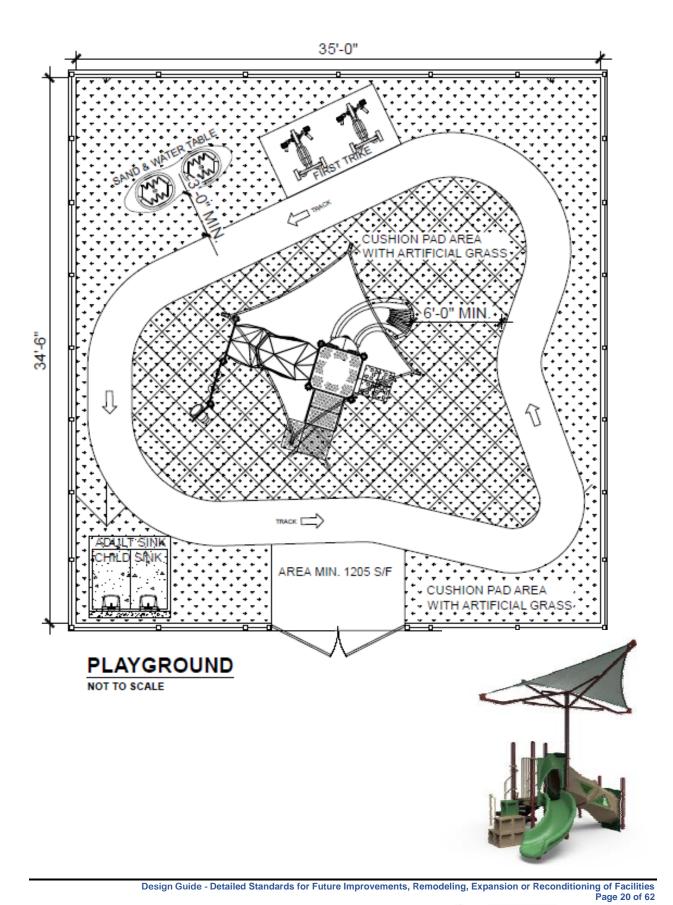
Playground

- Minimum space per child -75 sqf
- Minimum playground area 1205 sqf
- Minimum area per activity 8.1 sqf
- Minimum 50%. of the activity area in the patio exposed to the sun vs. shaded areas
- Shock absorbing material (consumer product safety commission guidelines)
- Storage area
- Seating area
- Avoid Blind Spots
- EHS considerations:
 - In the case of interior playground, it must be well lit with LED luminaires, color "Warm White, dimmable".
 - Shock absorbing material, soft touch finish.
- Additional consideration based on children's age Infant, Toddlers, Pre-schoolers
- Playground activities areas:
 - Sand and Water
 - Music
 - Reading
 - o Dramatic games
 - Climb, balance, jump and slide (fall buffers)
 - Locomotion
 - Areas must be 60" for movement in both directions unless specified in one direction only (minimum 36").
- The incorporation of Green Patios, recommended
 - Check list of non-toxic permitted plants,
 Appendix G of the HSDG

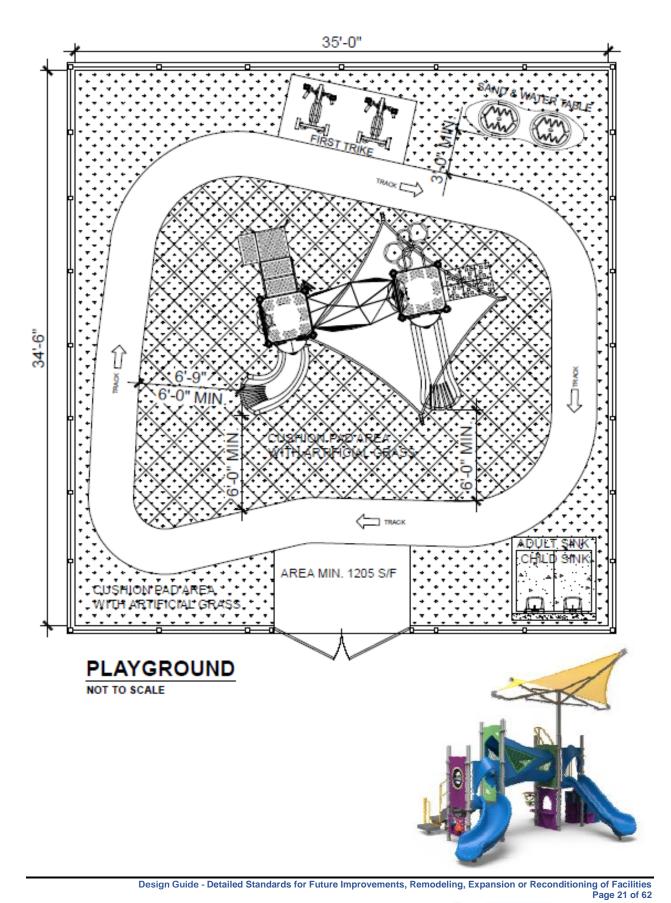










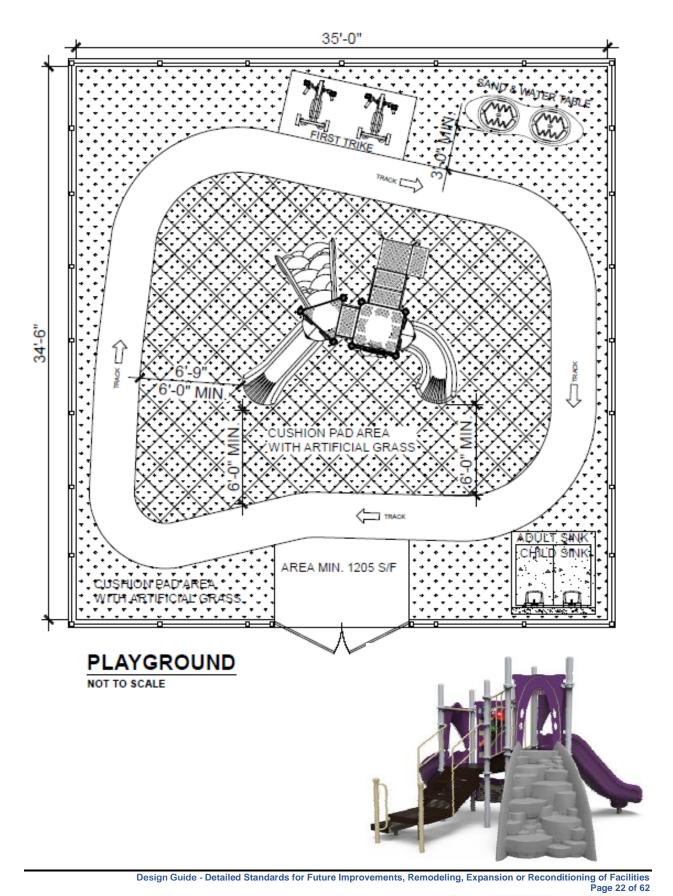








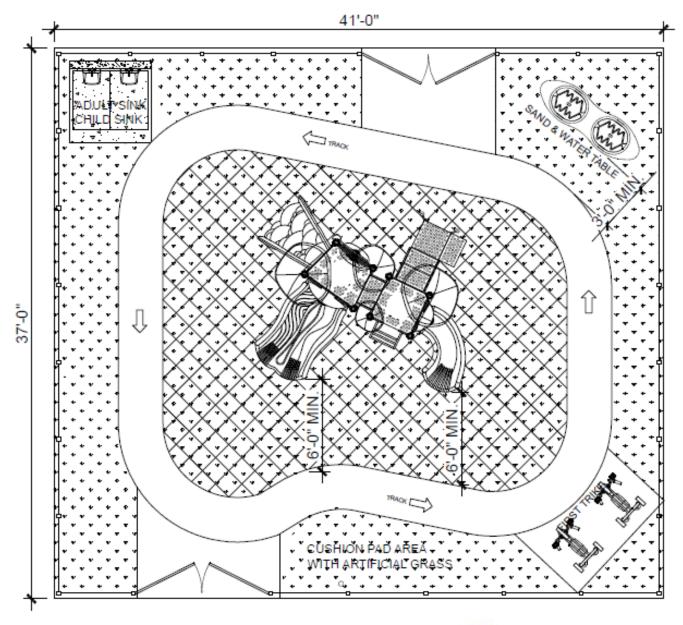












PLAYGROUND

NOT TO SCALE











PLAYGROUND

NOT TO SCALE











Fence

- Perimeter 6' (6'-6" regulation), if the patio is in a high-traffic or dangerous area, 8' by variation, ensuring the easements of views and lights are approved.
- Separation gaps no larger than 3"
- Maximum floor clearance 3"
- Rust free
- No sharp edges or points
- The separation, when it is made of tube and linked wire should not be greater than 2".
- Wood fences should have a smooth-touch, splinter-free finish.
- The separation of the wood should not exceed 3"
- To avoid climbing not horizontal; base/top exception
- Locks must not project outwards
- Minimum two access points
- Trees without overhanging branches, prune to 6.5'
- Maximum railing height for climbing playground platform = 18" for infants, 36" for walkers, 4.5' for preschoolers
- A radius of 6' of free zone in devices with fall. Must not interfere with tricycles
- Provide shock absorbers for falls, it can be natural or artificial.







Other general considerations

- Classroom must have visibility from the outside (ACTIVE SUPERVISION)
 - EHS environment- should provide visibility from one room to another
- Exterior doors conveniently located (no more than 100')
- Lock must be installed at 42"
- Minimum width of the doors 32", for those that have evacuation cribs 36"
- MINIMUM ONE ADA ACCESS PER ROOM OF 36".
- Smoke / Carbon Monoxide Detector (electrical)
- Emergency lamps
- Suppression system, when required by codes
- Lever mixers (ADA), although the guide establishes auto-interruption
- Sinks will require knee clearance (front approach), but this may vary if they are accessible from the side (side approach). ADA and ADAAG should be consulted.
- Ramps
 - o 1:12 minimum
 - o 1:16 recommended
 - o 1:20 prefer
- Signs and signals for children at 36"-44" depending on age (40" average).
- Receptacles, switches, alarms and intercoms 54"
- Grab bar will depend on the height of the toilet tank, two must be installed: rear and side (see guides).
- Entrance to the center of 5 '- 8' wide, if it has a ramp it must have handrails
- Handrails on ramps and stairs (don't just consider OSHA)
- Stroller storage area (ideal)
- Waiting or reception area







- Private area for meetings with teacher or interdisciplinary team
- Private area to breastfeed (Law No. 427 of the year 2000, as amended)
- Parking (availability may be variable but in compliance with regulations, let's do an exercise)
- Aisles of easy and common access and movement
 - o 36" minimum width in one direction
 - o 48" minimum width in two directions
 - o 60" high traffic areas
- Optimum visibility to the exterior of the facilities.

Other general considerations

- Teachers

- Kitchenette or lounge, separate from children's areas, for lunch, planning or rest
- Storage area for personal belongings and educational material (25% ideal).
- Private area for meetings with parents
- Classroom efficiently designed to allow organization and safety

Other general considerations

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Administration

If the scope of work for facility to be design include administration spaces:

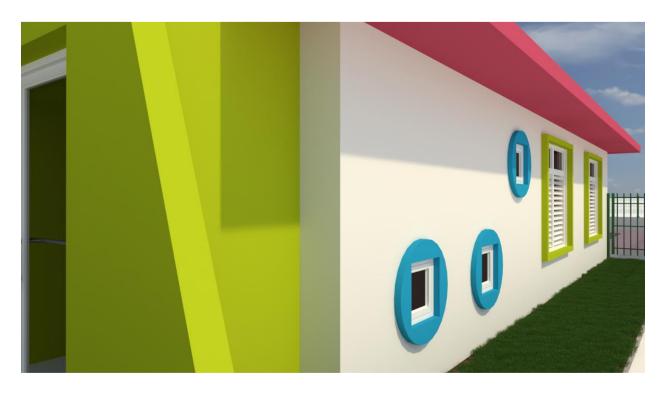
- Sufficient office area to accommodate desk and chair, waiting chairs, files cabinets, basic office equipment, based on the occupant's needs.
- Room for meetings and training (ideal)





Design Check List — Value and Service

















Façade

- Approach
 - Entrance Spaceship concept
 - Addition of volume as lobby space
 - Lay over geometric planes to enhance futuristic motive.
 - Lateral
 - When the structure provides an additive structural element, independent of the original structure, apply pattern with varying depths and linear vertical alternating rhythms using the selected color palette. This detail could also be applied on flat exterior walls
- Material
 - Casing bead
 - Foam Molding
 - o Circular J Mold
- Paint Select the exterior color paint from the following Décor package
 - o Venus
 - o Saturn
 - Mercury
 - Starburst
 - o Earth







VENUS













SATURN













MERCURY







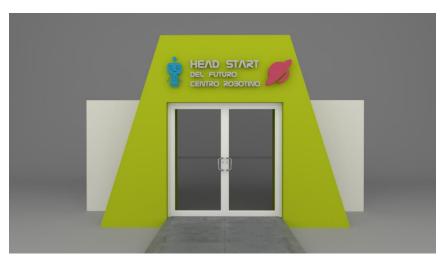






STARBURST









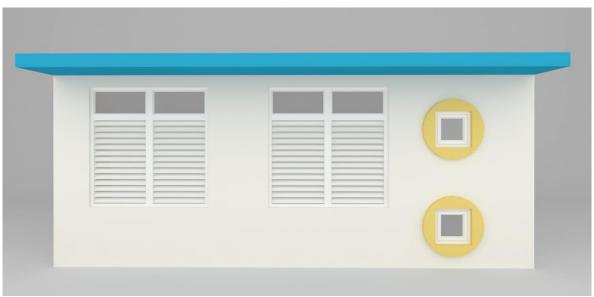




Windows

- Trim existing windows
- Add square shaped window
 - o 18" x 18", Fixed
 - o Geometrical figure trim
- Material
 - o Casing bead
 - o Foam Molding
 - o Circular J Mold





































Interior

- Select the interior color paint to match the exterior color paint selected.
 - o Venus
 - Saturn
 - Mercury
 - o Starburst
 - o Earth
- All roof and walls surface, unless specified, to be finished:
 - Smooth plaster or resurfacer
 - Primer
 - Paint
- Floor finish including plinth
 - Decatrex flake

Décor Package

Color pallet themes











SATURN



MERCURY









STAR BURST MAYOR BLUE SW 6795 HIGH REFLECTIVE ALABASTER **EROS PINK** CENTER STAGE SW 6860 SW 6920 WHITE SW 7757 SW 7008 FLOOR: STAR BURST HIGH REFLECTIVE ALABASTER MINOR BLUE IN THE PINK GLEEFUL DECRATEX FLAKE SW 6583 SW 6709 WHITE SW 7757 SW 7008 SW 6792







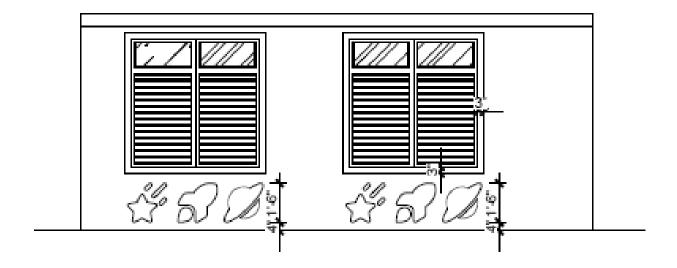


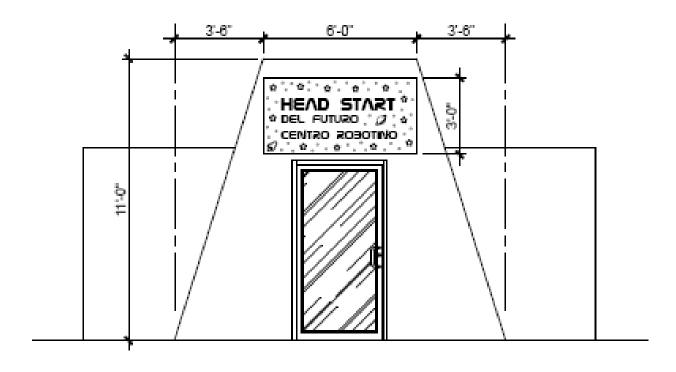
ELEVATIONS





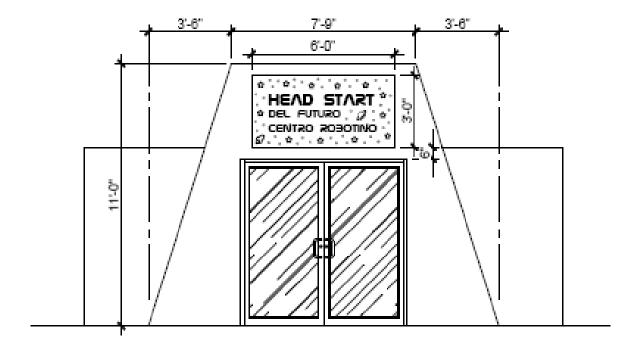


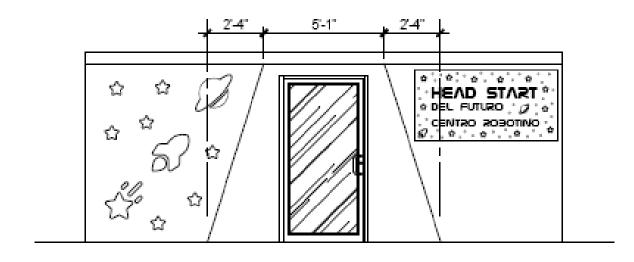








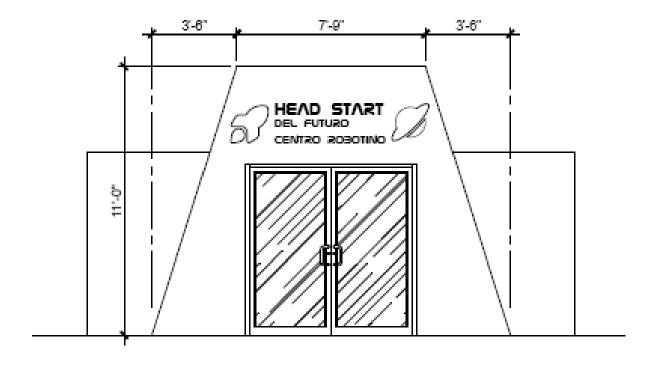


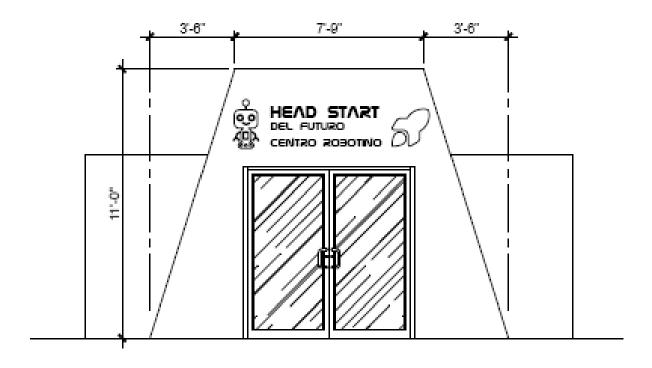








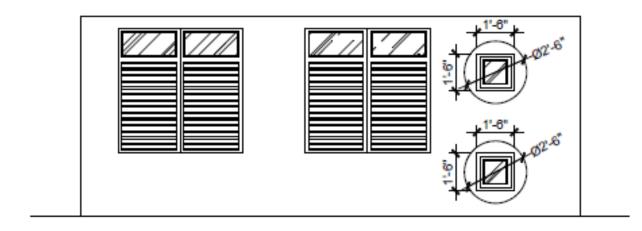


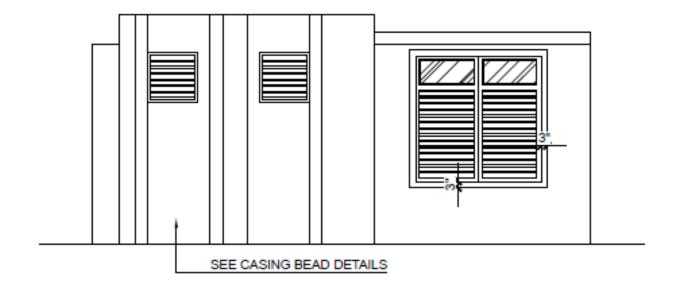








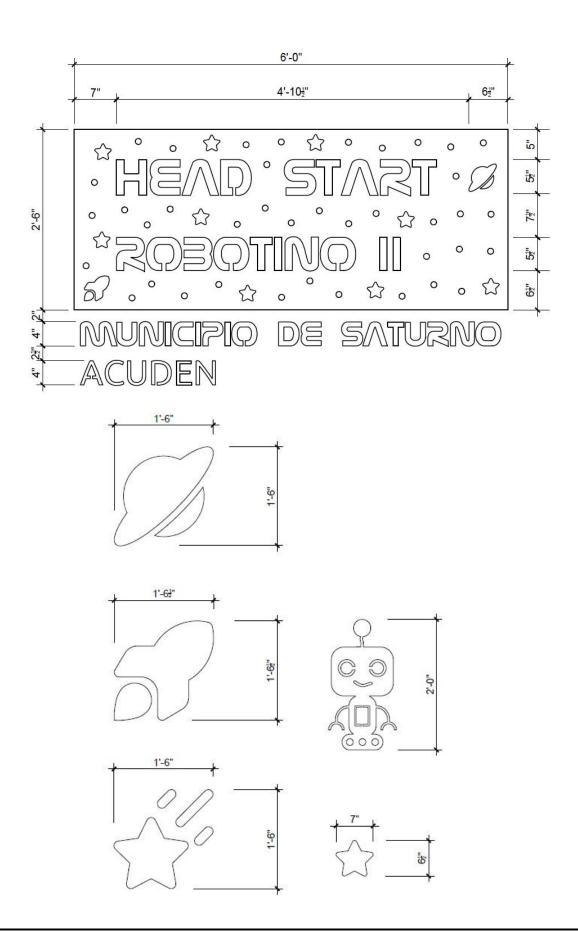








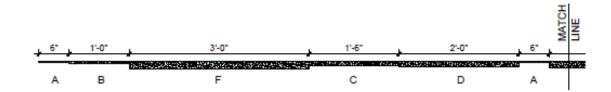


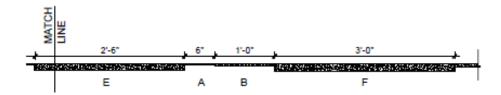




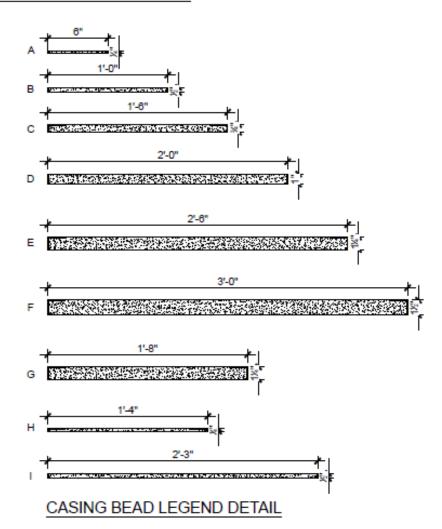








TYPICAL SECTIONS OF CASING BEAD IN WALLS







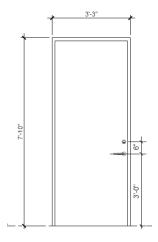


Exterior – Entrance

Alternative 1

FLUSH ALUMINUM MORTISED LOCK WITH CLOSER AND DOOR STOP ANSI FUNCTION F-05 WATHERSHIP. INCLUDE 2" X 6" ANODIZE ALUMINUM TUBE ON TOP AND 2" X 6" X 8' ANODIZE ALUMINUM TUBE FOR ONE SIDE.

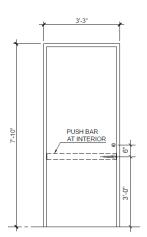
HARDWARE FINISH: MEDIUM DUTY SATIN CHROME



Alternative 2

FLUSH ALUMINUM MORTISED LOCK WITH CLOSER AND DOOR STOP ANSI FUNCTION F-05 WATHERSHIP. INCLUDE 2" X 6" ANODIZE ALUMINUM TUBE ON TOP AND 2" X 6" X 8' ANODIZE LUMINUM TUBE FOR ONE SIDE.

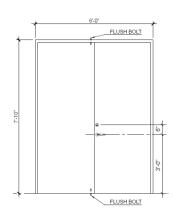
HARDWARE FINISH: MEDIUM DUTY SATIN CHROME



Alternative 3

FLUSH ALUMINUM MORTISED LOCK WITH CLOSER AND DOOR STOP ANSI FUNCTION F-05 WATHERSHIP. INCLUDE 2" X 6" ANODIZE ALUMINUM TUBE ON TOP AND 2" X 6" X 8' ANODIZE ALUMINUM TUBE FOR ONE SIDE.

HARDWARE FINISH: MEDIUM DUTY SATIN CHROME







Alternative 4

FLUSH ALUMINUM MORTISED LOCK WITH CLOSER AND DOOR STOP ANSI FUNCTION F-05 WATHERSHIP. INCLUDE 2" X 6" ANODIZE ALUMINUM TUBE ON TOP AND 2" X 6" X 8' ANODIZE ALUMINUM TUBE FOR ONE SIDE.

HARDWARE FINISH: MEDIUM DUTY SATIN CHROME

Alternative 5

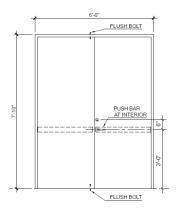
FLUSH ALUMINUM MORTISED LOCK WITH CLOSER AND DOOR STOP ANSI FUNCTION F-05 WATHERSHIP

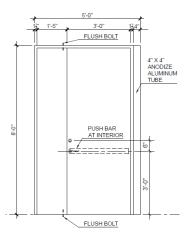
HARDWARE FINISH: MEDIUM DUTY SATIN CHROME

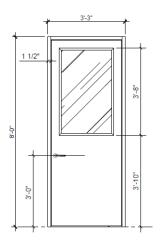
Interior – Classroom / Environment

HOLLOW METAL DOOR: WITH CLEAR GLASS SECURITY LAMINATE WITH CLOSER AND DOOR PUSH/PULL HANDLE LOCKLESS

COLOR FINISH: STANDARD WHITE









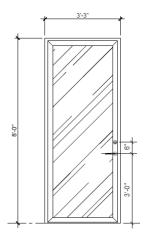




Interior - Administrative

ALUMINUM DOOR: FULL GLASS, CLEAR LAMINATED GLASS

COLOR FINISH: ANODIZE ALUMINUM

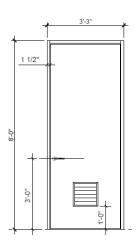


Interior - Bathroom

Adult

HOLLOW METAL DOOR: WITH CENTRALIZED LOUVER 12" X 12"

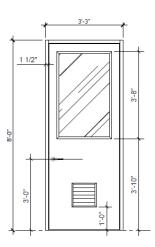
COLOR FINISH: STANDARD WHITE



Child - HS

HOLLOW METAL DOOR: WITH CLEAR GLASS SECURITY LAMINATE AND CENTRALIZED LOUVER 12" X 12" WITH CLOSER AND DOOR PUSH/PULL HANDLE LOCKLESS

COLOR FINISH: STANDARD WHITE



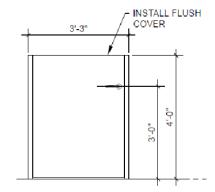




Child - EHS

HOLLOW METAL DOOR: 4' HEIGHT WITH ALUMINUM COVER ON TOP. SEE DETAIL

COLOR FINISH: STANDARD WHITE







Security points

- Bollard
- Intercom system with cameras
- Magnetic locks for access door from the exterior of the center
- Interior gates to stop visitors while inside for identification





Lighting

The lighting catalog provided in this section is an applicable suggestion.
Accepts substitutions according to the need and preference of the agency.

There are an aesthetic suggestion; the designer must select those that meet the calculation of lumens or foot candles required by area

Exterior Luminaries

S21520 - Blink -13.5W- 7" Surface Mount LED - 5000K-Round Shape -Brushed Nickel Finish -120V



LSD-SNL-2W- Fairy – Solar Wall Light

















Lighting

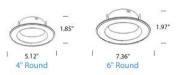
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Interior Luminaries

ALCON LIGHTING MODEL: (14008-6-N)





4"LED DIMMABLE LINNEAR LIGHT **FIXTURE**



ALCON LIGHTING MODEL: 11253-WH)



Mission Industrial 48 in. x 15 in. Brushed Nickel Selectable LED Flush Mount Light High Output 5500 Lumens Dimmable





Lighting

The lighting catalog provided in this section is a suggestion to be implemented if a lobby or reception area is part of the facility's program.

Decorative reception lamps

Maxas - Carson 3-Light 31.8 in. Brown Cluster Circle LED Semi-Flush Mount



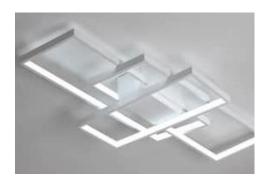
Tech lighting 700FM AEON



VONN Lighting -Capella 43 in. 4-Watt Black Integrated LED Semi Flush Mount Ceiling Fixture With 4 Light Rings



35 in. 1-Light Modern White Integrated LED Square Acrylic Flush Mount Ceiling Light (White light









Electrical infrastructure

Consider sufficient electrical facilities accessible to adults, out of the reach of children, for each and every one of equipment that requires electricity, which will be installed in the classroom.

Electrical facilities should be installed in different areas of the classroom according to the needs of each classroom.

- Receptacles and switches 54"
- Equipment in classroom
 - Tablet station (approximately 20 tablets)
 - 75" interactive whiteboard, LED lighting, internet connection, adjustable height
 - Illuminated table with color change
 - Intelligent interactive table
 - o 3D Printer
 - Music center
 - Audiovisual digital system





Permits

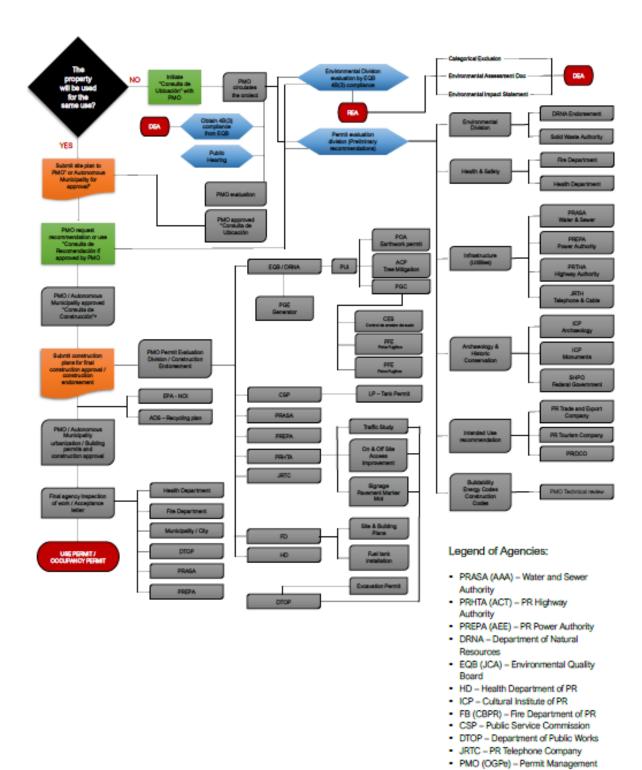
When there is no change in the proposed use

- Consolidated Construction Permit (PCOC)
 - When the proposed construction affects the footprint of the existing structure; affects side, front, and back yards; it is permanent construction attached or not to the original structure.
 - Incidental Sole Permit (PUI)
 - Incidental Activity Permit to Authorized Work (POA)
 - Permisos de Actividad Incidental a una Obra de Infraestructura Pública (PIE)
 - Authorization for Cutting, Pruning,
 Transplanting and Planting of Trees (ACP)
 - 4. Consolidated General Permit (PGC)
 - Determination of Environmental Compliance via Categorical Exclusion (DEC)
 - Request for Recommendation Health and Safety – Puerto Rico Health Department (SRS-DS)
 - Request for Recommendation Health and Safety – Puerto Rico Fire Department (SRS-CBPPR)
- Pre-consultation Buildability (PCE)
- Request for Recommendation Infrastructure (SRI)
- Sole Permit (PU)









- ¹ Can be submitted for approved by an Authorized Professional (PA) in certain municipalities.
 ² Departing on project callegory or requested variation.
 ³ If project proposes variation in design parameters.





Office



Suggested Vendor

Sherwin William

https://www.sherwin-williams.com/

Intertrade Caribe Corporation / Contech / Pisos Caribe https://en.infopaginas.com/b/san-juan/intertrade-caribe-corporation

Home Depot PR

https://www.homedepot.com/I/PR

Daltile Ceramic & Porcelain

https://www.daltile.com/

IMPEC

https://impecpr.com/







References

Head Start web page https://eclkc.ohs.acf.hhs.gov/

Head Start Facilities Manual https://eric.ed.gov/?id=ED397952

Head Start Design Guide https://eclkc.ohs.acf.hhs.gov/sites/default/files/pdf/head start-design-quide.pdf

Caring for our Children (CFOC4)

http://nrckids.org/

Guia de Ambiente Seguro - ACUDEN

Handbook for Public Playground Safety

https://cpsc.gov/s3fs-public/325.pdf

National Fire Protection Association

https://www.nfpa.org/

International Building Codes 2018, or current

Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos 2020, or current

https://jp.pr.gov/wp-content/uploads/2021/07/Reglamento-Conjunto-2020-Vigencia-2-Enero-2021.pdf







Uniform Federal Accessibility Act (UFAS) https://www.access-board.gov/aba/ufas.html

American with Disability Act (ADA) 2010 / American with Disability Act Architectural Guidelines (ADGA)

https://www.ada.gov/pubs/adastatute08.htm

Historic Preservation Act (if applicable) http://uscode.house.gov

Permits and license (Single Business Portal, OGPe) https://sbp.ogpe.pr.gov/













