2016

Statewide Emergency Shelter Plan

January 31, 2016

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EXECUTIVE SUMMARY

Pursuant to §1013.372(2) and §252.385(2)(b), Florida Statutes, (Fla. Stat.) the Division of Emergency Management (Division) is responsible for preparing a *Statewide Emergency Shelter Plan* (the Plan). The Plan is a guide for local emergency planning. It also provides advisory assistance to school districts contemplating construction of educational facilities and the need to provide public shelter space within those facilities. The Plan is submitted to the Governor and Cabinet for approval by January 31 of each even-numbered year. The Plan identifies the general location and square footage of existing general population (GP) and special needs shelters (SpNS) space, by Regional Planning Council (RPC) region, and needed space during the next five (5) years. The Plan also includes information on the availability of shelters that accept pets. The Department of Health assisted the Division in determining the estimated need for hurricane evacuation shelter space. In accordance with the statute, the Plan must:

- Identify the general location and square footage of existing shelters by RPC regions;
- Identify the general location and square footage of needed shelters by RPC regions for the next five years;
- Identify the types of facilities which should be constructed to comply with the public shelter design criteria; and
- Recommend an appropriate and available source of funding for the additional cost of constructing emergency shelters within those public facilities.

With publication of the 2006 Plan, the Division began monitoring the status of the statewide inventory of SpNS. Historically, SpNS had been included in total population hurricane evacuation shelter demand estimates and hurricane evacuation shelter capacities. Given the findings from the 2004 hurricane season where about half of the designated SpNS were located in facilities that did not meet the same minimum hurricane safety criteria as GP shelters, the Division was asked to separate the two shelter types and monitor progress towards improving SpNS hurricane safety, client capacity and provision of standby electric power supported air-conditioning.

Table EX-1 provides a regional summary of the projected regional hurricane evacuation shelter space demands for 2016 and 2021, the quantity of recognized hurricane evacuation shelter spaces per region, and if there is a deficit or sufficient capacity of spaces per region. At this time, eight (8) RPC regions have a sufficient capacity of GP hurricane evacuation shelter space in 2016 (West Florida/Region 1, Apalachee/Region 2, North Central Florida/Region 3, Northeast Florida/Region 4, East Central Florida/Region 5, Tampa Bay/ Region 7, Treasure Coast/Region 9 and South Florida/Region 10). Nine (9) out of ten (10) RPC regions have a deficit of SpNS spaces in 2016

Table EX-1.

Regional Summaries of Hurricane Shelter Demands and Deficits / Sufficient Capacities for 2016 though 2021

General Population and Special Needs Shelters

RPC Region	RPC Region Name	General Population Shelter Demand and Capacities					Special Needs Shelter Demand and Capacities				
		2016 Category 5 Shelter Demand, persons	2021 Category 5 Shelter Demand, persons	2016 Risk Shelter Capacity, persons	2016 Shelter Deficits / Sufficient Capacity, persons	2021 Shelter Deficits / Sufficient Capacity, persons	2016 Category 5 Shelter Demand, clients	2021 Category 5 Shelter Demand, clients	2016 Risk Shelter Capacity, clients	2016 Shelter Deficits / Sufficient Capacity, persons	2021 Shelter Deficits / Sufficient Capacity, persons
1	West Florida (WF)	33,253	33,719	82,509	49,256	48,791	3,278	3,324	2,199	(1,079)	(1,125)
2	Apalachee (APAL)	12,861	13,091	37,794	24,933	24,703	2,541	2,612	811	(1,730)	(1,800)
3	North Central Florida (NCF)	52,316	52,629	57,225	4,909	4,595	3,396	3,419	2,260	(1,136)	(1,159)
4	Northeast Florida (NEF)	82,319	82,744	88,186	5,867	5,442	5,742	5,777	3,452	(2,290)	(2,325)
5	East Central Florida (ECF)	155,001	156,053	176,935	21,934	20,882	9,109	9,175	7,167	(1,942)	(2,008)
6	Central Florida (CF)	66,478	67,479	52,081	(14,397)	(15,398)	4,960	5,050	1,424	(3,536)	(3,626)
7	Tampa Bay (TB)	174,727	175,916	191,148	16,421	15,232	8,497	8,563	7,842	(655)	(721)
8	Southwest Florida (SWF)	148,168	148,987	26,035	(122,133)	(122,952)	9,767	9,828	1,201	(8,566)	(8,627)
9	Treasure Coast (TC)	48,723	49,538	117,219	68,496	67,681	6,272	6,395	3,251	(3,021)	(3,144)
10	South Florida (SF)	128,744	129,097	148,024	19,280	18,927	4,455	4,466	4,979	524	513
	TOTALS:	**902,590**	**909,255**	**977,157**	**74,567**	**67,902**	**58,017**	**58,608**	**34,586**	**(23,431)**	**(24,022)**

Based upon currently available information, RPC regions 1, 2, 3, 4, 5, 7, 9 and 10 will continue to have sufficient GP space through 2021. The SpNS regional hurricane evacuation shelter space deficit situation is projected to increase through 2021 with nine (9) regions remaining in deficit. It should be noted that these projections do not assume addition of new space to regional inventories through 2021. Addition of new space could significantly reduce or eliminate the projected deficits.

A comparison of both GP and SpNS indicates that only one (1) region has sufficient hurricane evacuation shelter space for both shelter types through 2021: RPC region 10. All other regions and their respective district school boards, community colleges and universities are required to construct new educational facilities in compliance with public shelter design criteria.

The types of public facilities that should be constructed to comply with public shelter design criteria include all facilities that are subject to be used as public hurricane evacuation shelters under the authority of §252.385(4)(a), Fla. Stat.; that is, public schools, community or state colleges, universities, and other facilities owned by state and local governments. When appropriately located, designed and constructed, the following types of facilities are normally considered suitable for use as public hurricane evacuation shelters:

> Community and civic centers, meeting halls, gymnasiums, auditoriums, cafeterias and open floor multipurpose facilities, exhibition halls, sports arenas, field houses, conference and training centers, certain classroom buildings, and other public assembly facilities.

The types of facilities that are not appropriate for use as public shelters are due to the following elements:

- location (facilities within Category 1, 2 or 3 hurricane evacuation zones, and possibly Category 4 and 5, flooding isolation, presence of certain hazardous materials, low evacuation demand, etc.),
- size (e.g., less than 2,000 square feet of usable floor area), or
- other characteristics (e.g., incompatibility of facility's normal use or availability with mass care function, long-range planning considerations, etc.).

During preparation of this Plan, the Division conducted a survey to estimate the compliance rate of school districts adhering to the statutory and code requirements of the public shelter design criteria for new school facilities construction. The Division wanted to determine if compliance with the existing law had improved since 2001. In 2001, the State Auditor General had a finding that, of the new schools reviewed, only 65 percent appeared to comply with the public shelter design criteria. Between 2001 and 2009 the Division observed a similar compliance rate of 65 percent. However, a more recent survey indicated improved compliance.

According to the Florida Inventory of School Houses (FISH) data, there were 115 new school buildings constructed between 2010 and 2013, with an estimated total net floor area of 1,835,914 square feet. The Division recognizes 26 of those facilities (413,558 square feet) as meeting the public shelter design criteria, and another 59 buildings (1,016,474 square feet) were lawfully exempt for statutory and code provided causes. Therefore, the applicable school districts had a compliance rate of 78 percent.

District school boards have generally been reporting that the construction cost premium for incorporating the criteria is about three (3) to seven (7) percent. This is not necessarily an insignificant cost that must be borne by state and local agencies. Therefore, §1013.372(2), Fla. Stat. requires that the Division recommend an appropriate and available source of funding for the additional cost of constructing emergency shelters. The Division recommends the use of existing capital outlay funds as they are an appropriate and available source of funding.

The Division has statutory duty and authority to administer a statewide program to eliminate the deficit of "safe" hurricane evacuation shelter space. To ensure consistency with state and national standards, guidelines and "best practices," the Division has recognized *Standards for Hurricane Evacuation Shelter Selection* (ARC 4496) as the minimum hurricane evacuation shelter survey criteria. Therefore, at a minimum, meeting ARC 4496 criteria is a required condition for a public facility to be described as "safe," "suitable" or "appropriate" during preparation of this Plan.

To accomplish this duty, the Division has implemented a multifaceted program. This program includes: 1) survey of existing buildings, both public and private, to identify suitable shelter capacity; 2) where cost effective (and practical), support mitigation and retrofitting of existing facilities to increase shelter capacity; 3) construction of new facilities to meet the public shelter design criteria; 4) shelter demand reduction through improved hurricane hazard models and behavioral studies; and 5) improve public information/education to reduce unnecessary "shadow" evacuations.

While regional deficits do remain, Florida's deficit of general population hurricane evacuation shelter space on a statewide aggregate basis has now been eliminated. However, a deficit of special needs hurricane evacuation shelter space persists. The Division's hurricane evacuation shelter survey and retrofit program identified, created or otherwise documented 518,711 hurricane evacuation shelter spaces that meet ARC 4496 guidelines. Public school new construction programs have created an additional 493,031 hurricane evacuation shelter spaces. Therefore, by the 2016 hurricane season, Florida will have a total of 1,011,742 shelter spaces that meet ARC 4496 guidelines. The perceived public shelter demand resulting from hurricane evacuation has been significantly reduced over the past 13 years due to improvements in public education and information, and more accurate storm surge/evacuation zone modeling with the use of the LiDAR (Light Detection and Ranging). The 2010 Statewide Regional Evacuation Studies (SRES) resulted in a statewide aggregate hurricane evacuation shelter space demand reduction. Florida's hurricane evacuation shelter space demand for 2016 is 960,607.

With publication of this Plan, Florida now has 36 counties with sufficient capacity of General Population (GP) hurricane evacuation shelter space. The counties with sufficient GP space include: Baker, Bay, Bradford, Brevard, Broward, Duval, Escambia, Flagler, Gadsden, Gilchrist, Hamilton, Hardee, Hendry, Hillsborough, Holmes, Indian River, Jackson, Jefferson, Lake, Leon, Liberty, Madison, Manatee, Martin, Okaloosa, Orange, Osceola, Palm Beach, Saint Johns, Saint Lucie, Santa Rosa, Seminole, Taylor, Union, Walton, and Washington.

There are fewer counties, 21, with a sufficient capacity of SpNS hurricane evacuation shelter space. The counties with a sufficient capacity of SpNS space include: Bradford, Brevard, Broward, Citrus, Desoto, Gilchrist, Glades, Hardee, Hernando, Indian River, Lafayette, Leon, Levy, Manatee, Martin, Miami-Dade, Osceola, Pasco, Putnam, Santa Rosa and Volusia.

As Florida's hurricane vulnerable population continues to grow, it is vitally important that construction of hurricane evacuation shelters and retrofitting of existing buildings be considered a priority. If Florida is to meet its goal of eliminating the hurricane evacuation shelter space deficit in every region of the state, the incorporation of public shelter design criteria into new construction, retrofitting of suitable existing buildings, and continued use of improved hurricane evacuation studies and new technologies must continue to be accomplished. The overall result of full implementation of the Division's hurricane evacuation shelter deficit reduction strategy is a greater level of emergency preparedness, a more efficient capability for responding to incidents and a greater ability to meet the needs of disaster survivors.

1.0 INTRODUCTION

1.1 Purpose of Statewide Emergency Shelter Plan

Pursuant to §1013.372(2), and §252.385(2)(b), Florida Statutes (Fla. Stat.), the *Statewide Emergency Shelter Plan* (Plan) is prepared and submitted to the Governor and Cabinet for approval. The Plan provides information on existing and needed hurricane evacuation shelter space requirements. This information is then used by district school boards, college boards of trustees, university boards of trustees and emergency management agencies in planning for the construction of new educational facilities to comply with the public shelter design criteria. "Board," unless otherwise specified, means a district school board, a college board of trustees, and a university board of trustees.

This Plan, once approved, will determine which regions and counties are required to construct new educational facilities to comply with the public shelter design criteria. The Plan includes: the general location and square footage of existing general population and special needs shelters (SpNS) by region and county; the general location and square footage of needed general population and SpNS by region and county for the next five years; the types of facilities that should comply with the public shelter design criteria; and recommends an appropriate and available source of funding for the additional cost of constructing public hurricane evacuation shelters in those public facilities.

Since promulgation of the public shelter design criteria in 1997, the Division has routinely received requests for guidance on certain aspects of the criteria. Therefore, this Plan also includes advisory guidance by the Division on subjects relating to implementation of the criteria; such as, minimum mass care/human needs requirements not specified in the code, explanation of exemption criteria, etc. The guidance is not intended to be a comprehensive commentary of the criteria, but is limited to subjects pertinent to the most frequently asked questions. This Plan also includes a brief progress summary of statewide hurricane evacuation shelter space deficit elimination.

1.2 Background and Chronology

On August 24, 1992, Hurricane Andrew made landfall in South Florida as a Category 5 hurricane. Winds in excess of 155 miles per hour spread inland, causing catastrophic damage in Miami-Dade County and other South Florida areas. It has been estimated that 750,000 persons were ordered to evacuate coastal areas, inland flood prone areas and manufactured homes. In some cases, spontaneous (or “shadow”) evacuation of persons outside of areas ordered to evacuate also occurred. Though many evacuees sought shelter in motels or the homes of family and friends, many also sought safety in public shelter facilities in the affected area, and in communities along evacuation routes throughout the state. This unprecedented relocation of Florida’s residents and visitors in the face of an impending natural disaster stretched the resources of State, local, and private agencies to provide public shelter.

Post-disaster evaluations of evacuation and sheltering operations by the *Governor's Disaster Planning and Response Review Committee*, also known as the "Lewis Commission," identified the lack of adequate and appropriate public shelter space as a critical planning issue. The Lewis Commission Report served as the driving force behind the adoption of Chapter 93-211, Laws of Florida, and subsequent revisions to Chapters 235, 240 and 252, Florida Statutes. The educational facilities sections of Chapters 235 and 240 have been superseded by Chapter 1013. Based on those revisions, the Legislature stated its intent that Florida eliminate its deficit of safe public hurricane evacuation shelter space in every region of the State.

In consultation with boards, county emergency management offices, and the Division of Emergency Management, the statute directed the Department of Education to develop standards for a public shelter design criteria. The new criteria were to be designed to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. After promulgation of the criteria, all new educational facilities, or appropriate areas within facilities, for which a design contract was entered into after the effective date of inclusion in State Requirements for Educational Facilities (SREF), must be built in compliance with the criteria. The facility may be exempted with concurrence of the applicable local emergency management agency or the Division.

The Department of Education entered into a contract with the University of Florida, School of Building Construction, to prepare the public shelter design criteria. The university assembled an advisory committee consisting of members from federal, state and local emergency management agencies, architects, engineers, academia, district school boards and the American Red Cross (ARC). The task before the advisory committee was to develop criteria that balanced the need to provide a relatively safe and self-sufficient facility, with the need for cost-effective designs and construction methods.

The advisory committee incorporated not only its collective knowledge, experience and existing national codes and standards, but also consulted with Texas Tech and Clemson Universities for severe storm research findings, and with relevant publications, such as the American Red Cross' *Mass Care—Preparedness and Operations* (ARC 3031, superseded by ARC 3041), *Guidelines for Hurricane Evacuation Shelter Selection* (ARC 4496), and the Department of Energy's (DOE) Standard *Natural Phenomena Hazards Design and Evaluation Criteria* (DOE-STD-1020).

The product of this process is a set of comprehensive design criteria that includes structural enhancements, potable water and sanitary requirements, provisions for standby emergency power, and other considerations that improve survivability and shelter management operations. The promulgation process began in 1994, and was adopted into SREF on April 28, 1997. Subsequently, along with other sections of SREF, the criteria were incorporated into Chapter 423 of the Florida Building Code, which became effective March 1, 2002, and then Chapter 453 of the 5th Edition (2014) on June 30, 2015. This provided a seamless continuation of the criteria for new school construction projects. The public shelter design criteria code provisions in effect at the time of publication of this Plan can be seen in Appendix B.

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The public shelter program lessons learned from Hurricane Andrew were further reiterated during the 2004 and 2005 hurricane seasons. During these two seasons alone, approximately 15 million people in Florida were under evacuation orders due to eight (8) hurricanes and two (2) tropical storms. During 2004 and 2005, nearly every county in Florida was under hurricane or inland high wind warnings at some time, prompting mandatory evacuation orders for their coastal storm surge, inland flood vulnerable and manufactured home residents. More than 1,200 shelters were opened, which safely protected about 300,000 evacuees.

In a large-scale emergency, the availability of shelter space is a statewide challenge. Even if some individual counties have a sufficient capacity of shelter space, deficits in other counties have statewide implications that will have to be addressed. Evacuees that cannot find shelter space within their own county or region will leave those areas in search of viable shelter alternatives elsewhere. Thus, implementation of the public shelter design criteria in new educational facilities is a critical component of Florida's hurricane evacuation shelter space deficit elimination program.

1.3 Statutory Considerations

There are several statutory authorities that are applicable for implementation of the public shelter design criteria. The following statutes have been selected to provide context for decisions relating to planning and exemption of educational facilities.

252.38 Emergency management powers of political subdivisions.--Safeguarding the life and property of its citizens is an innate responsibility of the governing body of each political subdivision of the state.

(1) COUNTIES.--

(d) During a declared state or local emergency and upon the request of the director of a local emergency management agency, the district school board or school boards in the affected area shall participate in emergency management by providing facilities and necessary personnel to staff such facilities. Each school board providing transportation assistance in an emergency evacuation shall coordinate the use of its vehicles and personnel with the local emergency management agency.

§252.38, Fla. Stat. provides that "Safeguarding the life and property of its citizens is an innate responsibility of the governing body of each political subdivision of the state." This places the duty for evacuating and sheltering at-risk citizens during an emergency or disaster upon county governing boards (i.e., Board of County Commissioners). To expand and expedite locally available resources to meet an emergency need, the Legislature directed that during a declared state or local emergency, district boards will upon request participate in emergency management by providing facilities, personnel, equipment and vehicles.

District public schools are the primary source of public shelter during tropical weather related emergencies, currently accounting for about 97 percent of statewide hurricane evacuation shelter space. Therefore, it can be presumed that public schools will be used as hurricane evacuation shelters, and often staffed by district personnel. It can also be presumed that public schools will be opened as shelters regardless of the storm's forecasted intensity and track.

Therefore, it is critical that new school facilities be appropriately designed and located to serve the required emergency function.

252.385 Public shelter space.--
(1) It is the intent of the Legislature that this state not have a deficit of safe public hurricane evacuation shelter space in any region of the state by 1998 and thereafter.

(2)(a) The division shall administer a program to survey existing schools, universities, community colleges, and other state-owned, municipally owned, and county-owned public buildings and any private facility that the owner, in writing, agrees to provide for use as a public hurricane evacuation shelter to identify those that are appropriately designed and located to serve as such shelters. The owners of the facilities must be given the opportunity to participate in the surveys. The state university boards of trustees, district school boards, community college boards of trustees, and the Department of Education are responsible for coordinating and implementing the survey of public schools, universities, and community colleges with the division or the local emergency management agency.

(b) By January 31 of each even-numbered year, the division shall prepare and submit a statewide emergency shelter plan to the Governor and Cabinet for approval, subject to the requirements for approval in s. 1013.37(2). The plan shall identify the general location and square footage of special needs shelters, by regional planning council region, during the next 5 years. The plan shall also include information on the availability of shelters that accept pets. The Department of Health shall assist the division in determining the estimated need for special needs shelter space and the adequacy of facilities to meet the needs of persons with special needs based on information from the registries of persons with special needs and other information.

(4)(a) Public facilities, including schools, postsecondary education facilities, and other facilities owned or leased by the state or local governments, but excluding hospitals, hospice care facilities, assisted living facilities, and nursing homes, which are suitable for use as public hurricane evacuation shelters shall be made available at the request of the local emergency management agencies. The local emergency management agency shall coordinate with these entities to ensure that designated facilities are ready to activate prior to a specific hurricane or disaster. Such agencies shall coordinate with the appropriate school board, university, community college, state agency, or local governing board when requesting the use of such facilities as public hurricane evacuation shelters.

§252.385, Fla. Stat. states the intent of the Legislature to eliminate the deficit of "safe" public hurricane evacuation shelter space. The Division was given both the duty and authority to administer a statewide program to survey public facilities and identify those that are appropriately designed and located to serve as public shelters. To ensure consistency with state and national standards, codes, guidelines and "best practices," the Division has recognized ARC 4496 as the minimum hurricane evacuation shelter safety criteria. Therefore, at a minimum, meeting the intent of ARC 4496 is a required condition for a public facility to be described as "safe," "suitable" or "appropriate" for recognition as a public hurricane evacuation shelter in this Plan. The public hurricane evacuation shelter capacities listed as "suitable" in this Plan are recognized by the Division as meeting ARC 4496 hurricane safety criteria.

Appendix A identifies the statewide inventory of facilities recognized as meeting the intent of ARC 4496 in their pre-survey existing condition (i.e., "as-is"), facilities that have been retrofitted to meet ARC 4496, and facilities that have been constructed to meet ARC 4496. New school facilities that are reported by district school boards and local emergency management agencies as having been constructed to the public shelter design criteria are generally recognized by the Division to meet ARC 4496, though storm surge flooding hazards may limit recognition in some cases to exiting storm tracks only.

The Division does not certify, approve or designate hurricane evacuation shelters. Through its survey program, the Division provides data and assistance to local emergency managers, who then use the ARC 4496 criteria as one factor in the selection of public shelters. In addition to the ARC 4496 ranking, local emergency managers consider other factors in the selection process, such as, type of event requiring shelter (known or perceived hazards and risks); location; available staffing, equipment and material resources; internal/external movement circulation; availability of adequate toilets and sanitation; feeding capabilities; standby or emergency electric power capability; types of spaces available and their configuration and contents; type and condition of roof covering; etc. When anticipated demand exceeds available ARC 4496 shelter space capacity, local emergency managers may select other facilities that afford the best available protection and features.

With the amendment of §252.385(2)(b), Fla. Stat. in 2006, the Plan is required to include information on the availability of pet-friendly public shelters as well as capacity of SpNS. The Department of Health is required to assist in determining need and adequacy of facilities for SpNS.

§252.385(4)(a), Fla. Stat. makes available all suitable public facilities owned or leased by state or local government agencies upon request of the applicable local emergency management agency. This broadens the types of facilities that can be used by emergency management officials in a declared emergency, and is consistent with the Division's authority to survey all appropriate public facilities for use as public hurricane evacuation shelters.

1013.372 Education facilities as emergency shelters.—

(1) The Department of Education shall, in consultation with boards and county and state emergency management offices, include within the standards to be developed under this subsection public shelter design criteria to be incorporated into the Florida Building Code. The new criteria must be designed to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. A facility, or an appropriate area within a facility, for which a design contract is entered into after the effective date of the inclusion of the public shelter criteria in the code must be built in compliance with the amended code unless the facility or a part of it is exempted from using the new shelter criteria due to its location, size, or other characteristics by the applicable board with the concurrence of the applicable local emergency management agency or the Division of Emergency Management. Any educational facility located or proposed to be located in an identified category 1, 2, or 3 evacuation zone is not subject to the requirements of this subsection. If the regional planning council region in which the county is located does not have a hurricane evacuation shelter deficit, as determined by the Division of Emergency Management, educational facilities within the planning council region are not required to incorporate the public shelter criteria.

As directed by law, the Department of Education was required to develop criteria, in consultation with district boards and state and local emergency management offices, to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. The criteria are required to be incorporated into the Florida Building Code (i.e., s. 453.25, *Florida Building Code--Building*), and all new facilities for which a design contract is entered into after incorporation of the criteria into the code must be built in compliance with the criteria. The public shelter design criteria are applicable to both district school board and community or state college facilities, and became effective on April 28, 1997. These criteria were also codified into the *Florida Building Code--Building* on March 1, 2002.

§1013.372(1), Fla. Stat. allows a board to exempt a facility from the criteria if the location, size or other characteristics is inappropriate for use as a public shelter. A facility that is located, or proposed to be located, in a Regional Planning Council region that is determined by the Division to have a sufficient capacity of hurricane evacuation shelter space may also be exempted. It is unlawful and a violation of the Florida Building Code for a board to exempt a new educational facility from the criteria without the written concurrence of the applicable local emergency management agency or the Division.

1013.74 University authorization for fixed capital outlay projects.—

(4) The university board of trustees shall, in consultation with local and state emergency management agencies, assess existing facilities to identify the extent to which each campus has public hurricane evacuation shelter space. The board shall submit to the Governor and the Legislature by August 1 of each year a 5-year capital improvements program that identifies new or retrofitted facilities that will incorporate enhanced hurricane resistance standards and that can be used as public hurricane evacuation shelters. Enhanced hurricane resistance standards include fixed passive protection for window and door applications to provide mitigation protection, security protection with egress, and energy efficiencies that meet standards required in the 130-mile-per-hour wind zone areas. The board must also submit proposed facility retrofit projects to the Division of Emergency Management for assessment and inclusion in the annual report prepared in accordance with s. 252.385(3). Until a regional planning council region in which a campus is located has sufficient public hurricane evacuation shelter space, any campus building for which a design contract is entered into subsequent to July 1, 2001, and which has been identified by the board, with the concurrence of the local emergency management agency or the Division of Emergency Management, to be appropriate for use as a public hurricane evacuation shelter, must be constructed in accordance with public shelter standards.

§1013.74(4), Fla. Stat., provide state university boards of trustees statutory duties similar as those of district public schools and community or state colleges. State universities, in consultation with state and local emergency management agencies, are directed to assess existing facilities to identify the extent to which each campus has public hurricane evacuation shelter space.

Each campus is then responsible for developing a five-year capital improvements program that identifies potential new and retrofitted facilities that can be used as public hurricane evacuation shelters. All campus buildings for which a design contract is entered into after July 1, 2001 are required to be constructed to the standard.

The statute indicates that a university board of trustees may exempt a facility from the criteria with the concurrence of the applicable local emergency management agency or the Division. A facility that is proposed to be located in a Regional Planning Council region that is determined by the Division to have a sufficient capacity of hurricane evacuation shelter space may also be exempted. As with district school boards and Community Colleges, it is unlawful for a university board of trustees to exempt a new campus facility from the criteria without the written concurrence of the applicable local emergency management agency or the Division.

381.0303 Special Needs Shelters. --

(2)(d) Local emergency management agencies shall be responsible for the designation and operation of special needs shelters during times of emergency or disaster and the closure of the facilities following an emergency or disaster. The local health department and emergency management agency shall coordinate these efforts to ensure the appropriate designation and operation of special needs shelters. County health departments shall assist the local emergency management agency with regard to the management of medical services in special needs shelters.

§381.0303(2)(d), Fla. Stat. requires local emergency management agencies to designate public SpNS. The Department of Health (through County Health Departments) is assigned the duty to assist with managing the medical service needs of the clients.

The Division strongly recommends that as with general population public hurricane evacuation shelters, public SpNS hurricane evacuation shelters designated by local emergency management agencies should at a minimum meet the ARC 4496 hurricane safety criteria, and preferably designed and constructed to higher performance codes and standards; such as the public shelter design criteria or the International Code Council's storm shelter standard (ICC 500).

2.0 EDUCATIONAL FACILITIES AS EMERGENCY SHELTERS

The public shelter design criteria, which are also known as Enhanced Hurricane Protection Area (EHPA) criteria, were designed to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. The EHPA criteria can be found in Section 453.25, *Florida Building Code—Building, 5th Edition* (2014). Public educational facilities primarily serve an educational purpose. During a declared state of emergency these facilities may function as public shelters. The public shelter function is a lawfully authorized function. During a declared state or local emergency public shelter functions can supersede normal educational functions. Therefore, consideration of the emergency management purpose is a critical component in the design of new educational facilities. The following sections will provide consultative (or advisory) guidance for implementing the criteria.

2.1 Public Shelter Design Criteria

The EHPA criteria ensure that new educational facilities meet or exceed applicable national design and construction standards, guidelines and "best practices." The EHPA criteria have been designed to significantly enhance occupant safety and building integrity. One of the main objectives of the EHPA is to ensure that these facilities continue to serve the public after exposure to a major hurricane.

It is highly recommended that during the design process that facility owners, planners and designers incorporate the American Red Cross' ARC 4496 in the planning process for an EHPA. See Appendix C. ARC 4496 is the minimum hurricane evacuation shelter safety guideline used by the Division, American Red Cross and local emergency management officials for surveying and ranking public hurricane evacuation shelters. ARC 4496 can also be viewed at the following web address:

http://www.floridadisaster.org/Response/engineers/documents/newarc4496.pdf

ARC 4496 requires that public hurricane evacuation shelters be designed, constructed and capable of withstanding wind loads according to the American Society of Civil Engineers Standard 7 (ASCE 7). The EHPA code provisions recommend increasing the design map wind speed by 40 miles per hour. The Division endorses this recommendation.

Please review Appendix G for additional advisory guidance on design criteria, including wind and debris impact resistance, foundation and floor slab elevation, location and site requirements, shelter occupant capacity, plumbing and sanitation, electrical standby and emergency power systems, and emergency management considerations. There are other useful resources to be considered in the EHPA design process, such as: 1) International Code Council's *Standard on the Design and Construction of Storm Shelters* (ICC 500), and 2) the Federal Emergency Management Agency's (FEMA) publication *Design and Construction Guidance for Community Safe Rooms* (FEMA 361).

SpNS should meet the same hurricane safety criteria as general population shelters (ARC 4496 and other state and national public shelter criteria). Following the 2004 hurricane season, the Division and Department of Health, in consultation with the Executive Office of the

Governor, issued a memorandum stating an expectation that SpNS be located in facilities that at a minimum meet the ARC 4496 hurricane safety criteria, that SpNS client occupied areas have standby power supported air-conditioning, and that client shelter spaces be based on 60 square feet per client (20 square feet is used for general population shelter spaces). The 60 square feet of space includes an allowance for care-givers and medical equipment. For further guidance, please see the following memorandum dated June 6, 2005:

http://www.floridadisaster.org/documents/Agwunobi-Fugate%20SpNS%206-7-2005.pdf

2.2 Exemption Criteria

All new educational facilities must be designed and constructed to comply with the EHPA criteria unless specifically exempted by the board with written concurrence of the applicable local emergency management agency or the Division. See §1013.372, Fla. Stat.

It is unlawful and a violation of the Florida Building Code for a board to exempt a new educational facility from the criteria without the written concurrence of the applicable local emergency management agency or the Division.

The fact that the EHPA criteria may increase the cost of construction of a facility, by itself, is not a factor that will be considered for an exemption by the Division. Cost of construction may only be considered as one of a number of factors when selecting which new facilities are to be designed and constructed to meet the EHPA criteria. Selection may be based upon cost-effectiveness, greatest provision of shelter space, and other factors that enhance shelter usefulness.

The EHPA requirement applies to any building construction project that is "new construction," as defined in §1013.01(14), Fla. Stat. and s. 453.5.8, *Florida Building Code—Building*. That is, any construction of a building or unit of a building in which the entire work is new, or an entirely new addition connected to an existing building. This includes replacement buildings and new buildings and additions constructed on existing campuses. The EHPA requirement also applies to reuse and prototype plans, since they are required to be code updated with each new project.

The EHPA requirement is not limited to rooms or spaces defined as "core facilities" in §1013.01(5), Fla. Stat. The statutory definition is intended for educational facilities purposes, and defines "core facilities" to be media centers, cafeterias, toilet facilities and circulation space (e.g., corridors, lobbies, etc.) §1013.372(1), Fla. Stat. states that "A facility, or an appropriate area within a facility…must be built in compliance with the (EHPA criteria) unless the facility or a part of it is exempted…" The statute does not limit EHPA's to "core facilities," but permits use of an entire facility, or appropriate areas within a facility.

Both the Florida Statutes and the Florida Building Code provide factors to consider in exempting an educational facility from complying with the criteria. ARC 4496 may also provide supplemental guidance to consider in the exemption process. The following subsections provide advisory guidance when considering an exemption request.

2.2.1 Location

In general, there are five factors to be considered when making an exemption request due to location: 1) location of the proposed EHPA site within an identified Category 1, 2 or 3 (or A, B or C) evacuation zone; 2) location subject to hurricane-related rainfall or storm surge flooding or isolation; 3) location on a coastal barrier island; 4) location within the evacuation zone of facilities that manufacture, use or store certain types and quantities of hazardous materials; and 5) low evacuation demand.

Category 1, 2 or 3 Evacuation Zone: New educational facilities located or proposed to be located in an identified Category 1, 2 or 3 evacuation zone are exempt from the EHPA criteria. "Evacuation Zones" are areas designated to be evacuated for particular hurricane scenarios to protect an at-risk population from flooding. Evacuation zones are developed taking into consideration all populated areas having a significant risk of flooding, areas not subject to flooding but may be cut-off or completely surrounded or isolated by flooded areas, and the need to be easily communicated to the public.

Evacuation zones are applicable to coastal counties, and possibly counties adjacent to Lake Okeechobee. Evacuation zones include areas that are subject to storm surge inundation, as predicted by the National Weather Service's Sea, Lake and Overland Surges from Hurricanes (SLOSH) model. Category 1, 2 and 3 evacuation zones are subject to evacuation during land-falling major hurricanes, as well as paralleling and exiting major hurricanes.

Category 4 and 5 hurricanes are relatively uncommon events, and based upon the storm track heading with respect to coastline (i.e., land-falling, paralleling or exiting), Category 4/5 hurricane evacuation zones may not be inundated by storm surge. Therefore, new educational facilities proposed to be located in Category 4/5 evacuation zones are not statutorily exempt from the EHPA criteria.

Also, to facilitate communication of evacuation orders to the public during an emergency, hurricane evacuation zones are typically established using geographic, jurisdictional or transportation/utility boundaries and landmarks that are known and readily identified by the local population. Therefore, hurricane evacuation zone boundaries may extend further inland than the SLOSH model predicted inundation areas. New educational facilities proposed to be located in a Category 4 or 5 evacuation zone may in fact be outside of the SLOSH predicted inundation areas. EHPA's located in Category 4 or 5 evacuation zone may provide emergency managers with additional sheltering options.

The 2010 Statewide Regional Evacuation Studies (SRES) introduce alphabetic Evacuation Zones (A-E) across the State. For planning purposes, the reference to areas to be evacuated from a Category 1 hurricane is Evacuation Zone A, reference to areas to be evacuated in advance of a Category 2 hurricane is Evacuation Zone B, and reference to areas to be evacuated from a Category 3 hurricane is Evacuation Zone C. Similarly, references to evacuation areas from Category 4 or 5 hurricanes are Evacuation Zones D or E respectively.

Category 4/5-related exemption decisions will be dependent upon the magnitude of the county and regional hurricane evacuation shelter space deficit, local logistical support capabilities and the availability of suitable alternatives (either in-place, or within the framework of a five-year plan.)

Rainfall or storm surge flooding or isolation: New educational facilities proposed to be located in areas subject to flooding or isolation due to rainfall or storm surge related flooding may be inappropriate for use as public hurricane evacuation shelters. Rainfall flooding includes closed-basin ponding, riverine and containment failure of dams and reservoirs. Extended-periods of isolation of a shelter population presents logistical challenges for emergency managers and mass care support agencies, which normally prefer equally suitable buildings not subject to flooding or isolation. The challenges include staff rotation, resupply of food, water and other consumables, emergency medical assistance, sanitation, security concerns, communication, etc. Flooding and isolation-related exemption decisions will be dependent upon the magnitude of the county and regional hurricane evacuation shelter space deficit, design and construction standards of the facility, shelter floor elevation, local logistical support capabilities and the availability of appropriate alternatives (either in-place, or within the framework of a five-year plan.)

Coastal Barrier Island: Coastal barrier islands are often less than two (2) miles wide with very low ground elevations above mean sea level (AMSL). As such, they are exceptionally at-risk to storm surge inundation, isolation, and exposure to the full force of hurricane winds. ARC 4496 also states that hurricane evacuation shelters must not to be located on barrier islands. Therefore, facilities on coastal barrier islands are often subject to an exemption from the EHPA criteria. Coastal barrier island exemption decisions will be dependent upon the magnitude of the county and regional hurricane evacuation shelter space deficit, shelter floor elevation, local logistical support capabilities and the availability of appropriate alternatives (either in-place, or within the framework of a five-year plan.) The Division uses §161.54(2), Fla. Stat., to provide a definition for coastal barrier islands.

Hazardous Materials: Location of a proposed new educational facility within the Vulnerability Zone (VZ) of facilities that manufacture, use or store certain types and quantities of hazardous materials may make it unsuitable for use as public hurricane evacuation shelter. Just as with flooding isolation concerns, the possible impact of a hazardous materials spill or release presents public safety and logistical challenges to emergency managers and mass care support agencies. In addition to the challenges listed for flooding isolation, hazardous materials emergencies include detecting and warning of presence of a hazard, and implementing shelter-in-place or evacuation actions. However, most facilities with reportable quantities of hazardous materials are considered a low risk of hurricane-related spill or release due to presence of mitigation measures (e.g., limited quantities of materials, hardening of containment structures, etc.)

Hazardous materials-related exemption decisions will be dependent upon the potential for and probable impact of a hurricane-related spill or release, potential hurricane evacuation shelter's distance from hazardous materials facility, guidance from Local Emergency Planning Committee (LEPC) and local fire department, magnitude of the county and regional hurricane evacuation shelter space deficit, detection and warning capabilities, local logistical support capabilities and the availability of appropriate alternatives (either in-place, or within the framework of a five-year plan.)

It should be noted that many educational facilities use or store hazardous materials that are used for janitorial services and maintenance, vocational or laboratory uses, refrigeration, water treatment, etc. Such materials are normally very limited in quantity, and suitably stored or protected, and therefore rarely a significant consideration for an exemption. The Division recommends consultation with the applicable LEPC and local fire department to determine appropriate precautionary measures.

Low Evacuation Demand: New educational facilities proposed to be located in areas with low evacuation demand may be considered for an EHPA exemption. Emergency managers and other mass care providers prefer to locate hurricane evacuation shelters in close proximity to the evacuees they will serve. Therefore, the emergency management agency may reduce the EHPA floor area square footage requirement to meet local evacuation demand needs, or possibly exempt the entire facility if a suitable alternative is available. Low evacuation demand exemption decisions will be dependent upon the magnitude of the county and regional hurricane evacuation shelter space deficit, local shelter demand needs and the availability of appropriate alternatives (either in-place, or within the framework of a five-year plan.)

2.2.2 Size

The required size of a hurricane evacuation shelter is very dependent upon local circumstances. To effectively utilize available resources and operational plans (e.g., staffing, feeding, security, etc.), a hurricane evacuation shelter located in an area with low evacuation demand can be significantly smaller than a facility located near a highly populated hurricane evacuation zone. Public hurricane evacuation shelters can range from as small as about 50 spaces to mega-shelters as large as several thousand spaces.

§252.385(4)(b), Fla. Stat. can serve as a guide when establishing a minimum size criterion for public hurricane evacuation shelters. This statute applies to suitable Department of Management Services owned or leased facilities, and requires that the facility have a minimum of 2,000 square feet of net floor area. The required minimum net floor area can be in a single room, or a combination of rooms each having a minimum of 400 square feet of net floor area. At 20 square feet per shelter space, this translates into a minimum capacity of about 100 spaces.

Therefore, to be consistent with §252.385(4)(b), Fla. Stat., the Division generally considers new educational facilities with less than 2,000 square feet of net floor area to be small enough for an exemption.

2.2.3 Other Considerations

"Other Considerations" is interpreted to mean any factor that is determined to make the facility inappropriate for use as a public hurricane evacuation shelter. This will generally be related to incompatibility of a facility's normal function or availability with public shelter operations.

As examples, the following types of spaces are normally excluded during calculation of net usable occupant capacity of a hurricane evacuation shelter, and are therefore often avoided by emergency managers when selecting shelters:

> Mechanical, plumbing, electrical, telephone and communication equipment rooms, storage rooms and closets, exterior/outside circulation and corridors, restrooms and shower areas, kitchen and food preparation rooms, science labs, computer and information technology labs, vocational and industrial technology labs and shops, library and media rooms, exercise rooms with fixed equipment, administrative office and support areas, data and word processing rooms and areas, record vaults, mail rooms, custodial rooms and work areas, medical clinic and first aid rooms, residential and dormitory rooms, radio or television broadcast facilities, attics and crawl spaces, etc.

New educational facilities that are designed exclusively to serve these functions may be exempted from complying with the EHPA criteria.

Other considerations may also include local strategies and long-range plans. As an example, to reduce costs and maximize hurricane evacuation shelter usefulness, a board and local emergency management agency may agree (in writing) that 100 percent of the floor area of new high schools will be constructed to the EHPA criteria, instead of the minimum of 50 percent, in exchange for reducing or eliminating EHPA requirements for middle and elementary schools. The proposed plan eliminates the county hurricane evacuation shelter space deficit, plus creates additional space toward reducing the regional deficit, within about five years. Thus the long-range plan achieves statutory intent, and exemptions for applicable middle and elementary schools are appropriate.

2.2.4 Alterations, Maintenance or Repair of Existing Buildings

Florida Statutes and the Florida Building Code both state that the EHPA criteria apply to "new educational facilities." Therefore, renovations, remodeling, maintenance and repair of existing buildings, as defined in §1013.01, Fla. Stat. and s. 453.5, *Florida Building Code--Building*, are exempt from compliance with the EHPA criteria.

2.2.5 No Regional Deficit of "Safe" Hurricane Evacuation Shelter Space

§1013.372, Fla. Stat. states that new educational facilities proposed to be located in a Regional Planning Council (RPC) region that does not have a hurricane evacuation shelter space deficit are not required to incorporate the EHPA criteria. The hurricane evacuation shelter space deficit determination is established by biennial publication and approval of this Plan, which guides exemption decisions over a five year planning period.

As can be seen in Figure 2-1, eight (8) RPC regions have sufficient capacity of general population hurricane evacuation shelter space in 2016, which includes RPC regions 1, 2, 3, 4, 5, 7, 9 and 10. Based upon currently available information, a sufficient capacity of spaces will continue in RPC regions 1, 2, 3, 4, 5, 7, 9 and 10 through 2021. However, as can be seen in Figure 2-2 there is a sufficient capacity of SpNS spaces in only one (1) region, region 10. The SpNS space deficits are projected to continue into 2021 if no new space is added to the inventory.

With the exception of one (1) region (region 10), all other regions have hurricane evacuation shelter space deficits in either general population, SpNS or both shelter types. Therefore, per §1013.372(1) and §1013.74(4), Fla. Stat. their respective district school boards, community or state colleges and universities are required to construct new educational facilities in compliance with the public shelter design criteria.

Figure 2-1. Regional Hurricane Evacuation Shelter Space Deficit / Sufficient Status of General Population Shelters

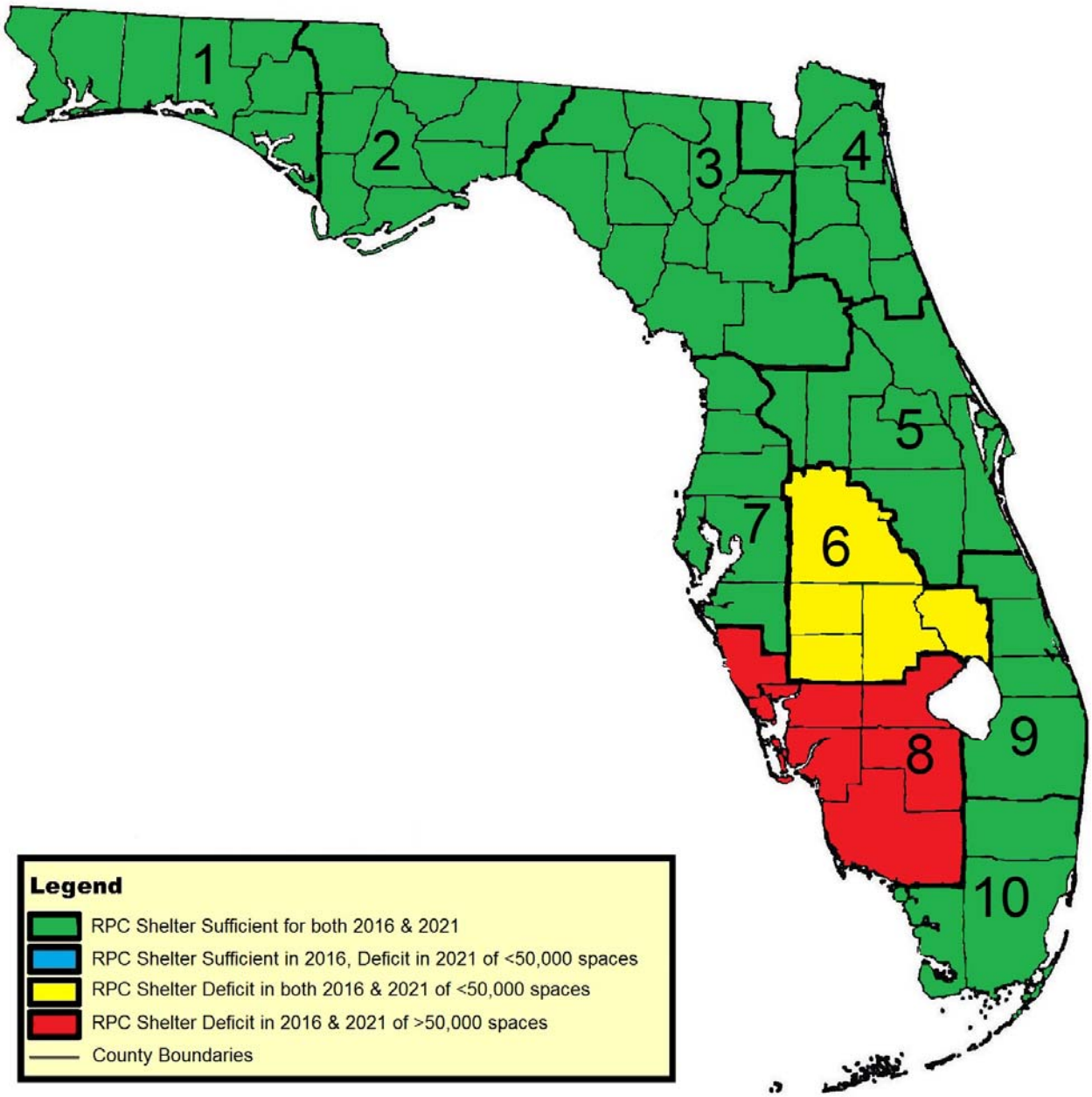
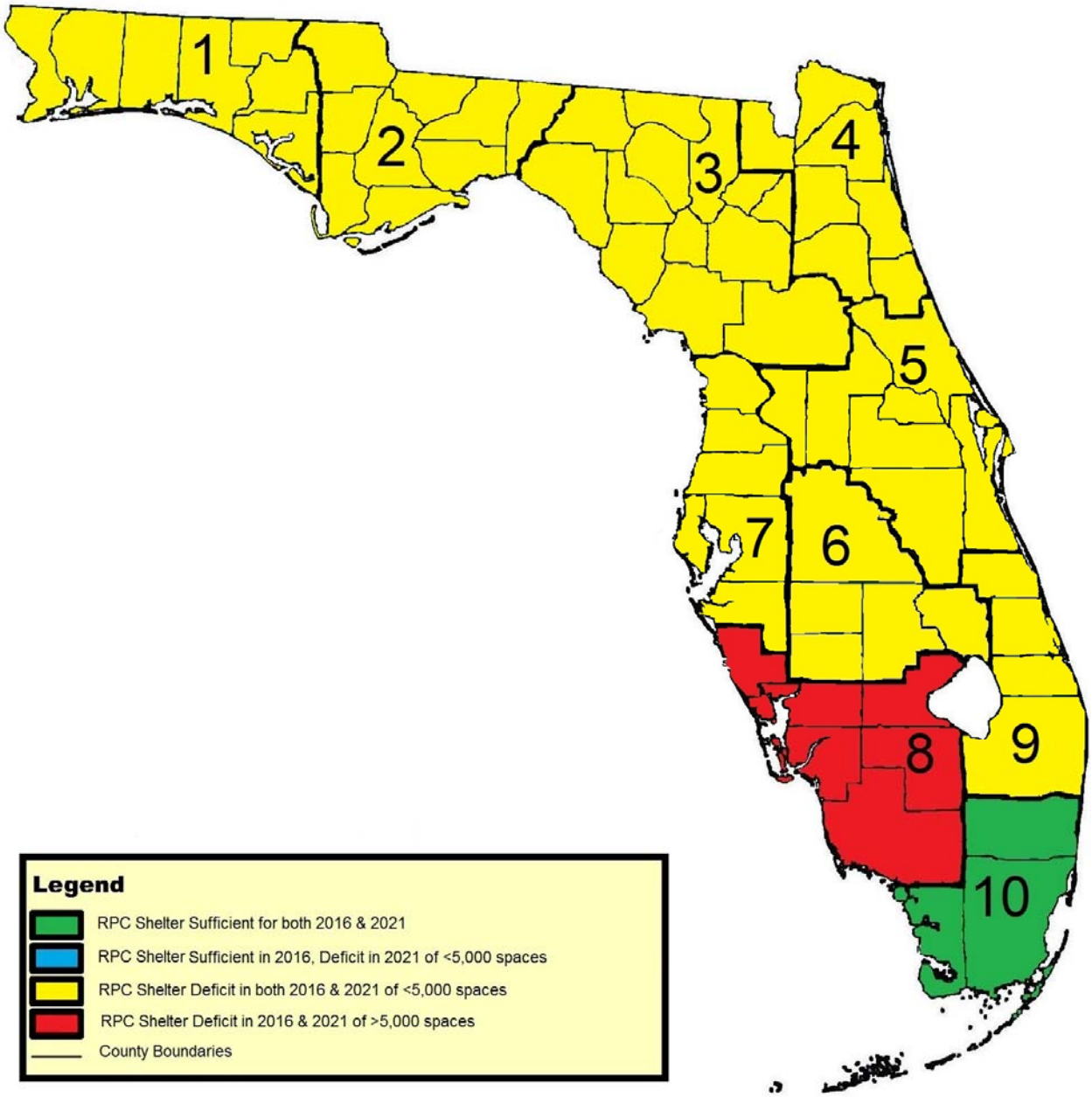


Figure 2-2. Regional Hurricane Evacuation Shelter Space Deficit / Sufficient Status of Special Needs Shelters



2.3 Exemption Process

In accordance with §1013.372, Fla. Stat. and s. 453.25, *Florida Building Code--Building*, the following procedure is recommended by the Division when requesting exemptions from the public shelter design criteria/EHPA requirement:

1. The board must notify the local emergency management agency of all educational facility construction projects that meet the definition of new construction.

2. The board must evaluate each new educational facility construction project to determine if a statutory or code specified exemption to the criteria is applicable.

3. If an exemption is not requested, the board should consult with the local emergency management agency to identify those areas of the new facilities that will maximize public shelter capacity, and meet the needs of both the educational and emergency management purpose.

4. If the board requests an exemption, the request must be prepared and submitted in writing to either the local emergency management agency or the Division. The request must identify the specific statutory or code factor(s) to be considered for the exemption, and provide appropriate supporting documentation.

5. If the local emergency management agency or the Division concurs with the exemption request, a written response stating the concurrence will exempt the new educational facility from the criteria.

6. If the local emergency management agency or the Division does not concur in writing with the exemption request, then the board must comply with the criteria.

2.4 Estimate of School District Compliance with EHPA Requirements (2010-2013)

In 2001, staff from the Auditor General's Office performed a hurricane shelter and grant management operational audit of the Department of Community Affairs. See Auditor General Report No. 02-055, dated October, 2001. In Finding No. 2 of the report, the Auditor General found that a significant number of new educational facilities, constructed by district school boards and community colleges, had not complied with the public shelter design criteria, and had not received an exemption (written) by local emergency management agencies or the Division. Given the projected deficits of public hurricane shelter space in this state, the Auditor General indicated that steps must be taken to remedy the situation.

The Auditor General recommended that the Division, in consultation with the State Legislature, Florida Department of Education and local emergency management officials, continue its efforts to ensure compliance with the provisions of the law. Subsequently, the Department of Education distributed memorandum number DPBM No. 02-42 (from Wayne V. Pierson, dated October 31, 2001) that reiterated the necessity for compliance with the statute. A copy of memorandum DPBM No. 02-42 is included in Appendix I.

Since distribution of the Auditor General's report and the Department of Education's memorandum in 2001, the Division has taken additional steps to encourage compliance with the EHPA criteria through the emergency management community. In 2003, with the assistance of the Department of Education, the Division compiled a list of new school facilities from the Florida Inventory of School Houses (FISH) with construction years between 2000 and 2003. Unless exempted, these school facilities were lawfully required to incorporate the EHPA criteria. The lists were forwarded to local emergency managers to assist them in determining local compliance, as well as assist in identifying additional unreported shelter capacity.

The Division also annually requests hurricane shelter capacity data from local emergency management agencies that is sorted to differentiate new school EHPA's, retrofit, and "as-is" (i.e., ARC 4496 hurricane shelter facilities that are not classified as a retrofit or EHPA) shelter space. This data is used to monitor progress toward eliminating county-level, regional and statewide hurricane shelter space deficits. The data also provides a means of tracking EHPA productivity on an annual basis.

The Division substantially revised the 2004 Plan to incorporate guidance to assist local school boards and emergency managers with implementing the criteria. The Division and Department of Education also participated in presentations and workshops at conferences that included the topic of EHPA construction requirements, code compliance and implementation strategies. The conferences were attended by emergency managers and their shelter program partners, school board officials, code enforcement officials, architects and engineers (e.g., National Hurricane Conference, Governor's Hurricane Conference, Florida Emergency Preparedness Association Meetings, etc.)

From 2000 through 2009 the Division observed similar results to those of Auditor General staff in 2000. Therefore, the 2004 through 2010 Plans reported a cumulative average of about 65 percent compliance.

In preparation for the 2016 Plan, the Division again collaborated with the Department of Education to compile a list of new school buildings from the FISH data. However, for the 2016 Plan, the list of new buildings was limited to those constructed in years 2010 thru 2013 with at least 4,000 net square feet. Universities and community or state colleges were not included primarily due to the fact that they only account for about two (2) percent of the statewide shelter space inventory. The data was then used in coordination with local emergency managers to estimate compliance by school boards with the EHPA requirement for years 2010 thru 2013.

The FISH data was analyzed to determine which facilities were located in Category 1, 2 or 3 or A, B or C evacuation zones, and those that had relatively little usable floor area (i.e., less than 2,000 square feet of net usable space). These characteristics provide a cause for an exemption. The Division also incorporated data from the facilities that were previously recognized as meeting EHPA criteria. The data was then tabulated and distributed to local emergency managers. The Division requested that local emergency managers verify which facilities are recognized as EHPA's, and which facilities (if any) received exemptions from their office. The Division has not granted an exemption, so any exemptions would have been local. Table 2-1 provides a summary of the findings.

According to FISH data, there were 115 new school buildings (based on at least 4,000 net square feet of area per room types listed in Appendix H) constructed between 2010 thru 2013, with an estimated total net floor area of 1,835,914 square feet. The Division recognizes 26 facilities (413,558 net square feet) as meeting the EHPA requirements of the law, and another 59 buildings (1,016,474 square feet) were lawfully exempt for statutory and code provided causes. Therefore, 85 of 115 new buildings complied with statutory and code EHPA requirements.

Since the EHPA code requirements are based on achieving a minimum quantity of floor area square footage, the square footage is the most reliable means of estimating compliance. The combined floor area square footage of the non-compliant buildings is 405,882 square feet, or a non-compliance rate of 22 percent. The result of the survey indicates that the compliance rate, statewide, has declined. The Division will continue to coordinate with the Department of Education and local emergency managers to monitor and improve compliance.

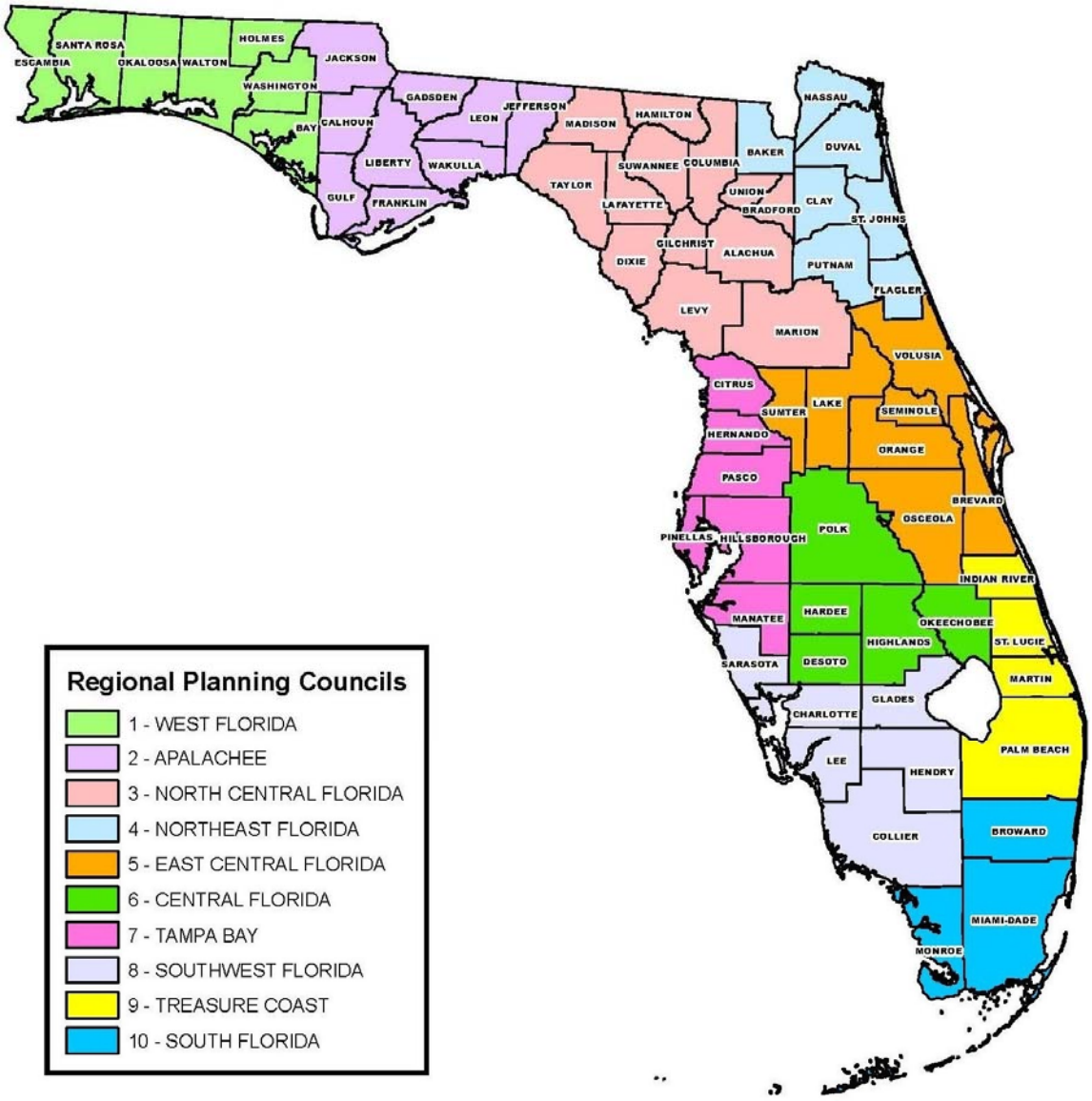
Table 2-1. Estimate of Local Compliance with EHPA Requirements Years 2010 thru 2013		
Description	**Number of Buildings**	**Net Square Feet**
Total Number of New Buildings	115	1,835,914
Division Recognized EHPA Buildings	26	413,558
Total Number of New Buildings exempted per Code	59	1,016,474
Total Number of New Buildings that met Lawful Requirements	85	1,430,032
Total Number of New Buildings that did not meet Lawful Requirements	30	405,882
Potential EHPA Space Lost (50% required by Code)	---	405,882
Potential EHPA Net Square Feet Lost (usable NSF after application of usability factors)	---	202,941
Potential EHPA Spaces Lost (at Code required 20 square feet each)	---	10,147
Description	**Percent of Buildings**	**Percent of Net Sq Feet**
Percentage of New Buildings that Complied with the Law	74%	78%
Percentage of New Buildings that did not Comply with the Law	26%	22%

3.0 REGIONAL HURRICANE EVACUATION SHELTER REQUIREMENTS

The Florida Statewide Regional Evacuation Studies (SRES) were updated in 2015. Data from the 2015 SRES and coordination with County Emergency Management Agencies was utilized for estimating the projections in the 2016 Statewide Emergency Shelter Plan. The overall projected population in the 2015 SRES is 19,193,068. The University of Florida's Bureau of Economic and Business Research projects the total population for 2016 to be 19,789,625. Projections are within margin of error of 596,577. County Emergency Managements also provided input on their Shelter Demand Projections. County Emergency Managements are seeking similar trends for planning purposes but they have the advantage of being more familiar with local issues in their jurisdiction. Counties which provided input are marked with (*) in Appendix J.

The SRES regions are RPC regions. The RPC regions and their respective counties are shown in Figure 3-1 for illustration purposes.

Figure 3-1. Regional Planning Council (RPC) Regions of Florida



3.1 Methodology for Calculating Regional and County Hurricane Evacuation Shelter Status

Location and Square Footage of Existing Shelters. The location and square footage of existing shelters can be found in Appendix A, which provides a detailed inventory of hurricane evacuation shelter locations and capacities within each region and county. The tables in Appendix A use the term "risk" shelters. Risk shelters include those shelter spaces recognized by the Division as meeting ARC 4496 hurricane safety guidelines and identified as appropriate for use during a hurricane impact. The term "risk" shelter is further defined in Appendix E.

Location and Square Footage of Needed Shelters. Region/County estimates for Shelter Capacity, Shelter Demands, and Shelter Surpluses/Deficits are provided in Table 3-1 and are based on Saffir-Simpson Hurricane Intensity Category 5 evacuation worst case scenario. Results contained in Table 3-1 for 2016 and 2021 are displayed in number of persons. Region/County square feet estimates for 2016 and 2021, using the same Category 5 worst case scenario, are provided in Table 3-2.

Shelter Demand Sources/Results by County. The 2016 through 2021 county shelter demand estimates for vulnerable populations are provided for Category 5. Vulnerable populations are defined as populations located in storm surge vulnerable areas (coastal and inland lake or river), rainfall flood prone areas and those living in mobile or manufactured housing. Source data for these estimates, including demographics, estimated percent vulnerable populations, estimated percent of vulnerable populations expected to seek public shelter, and other sources are shown in Appendix J.

The 2016 through 2021 population estimates utilized information from the 2015 SRES and coordination with County Emergency Managements. The Statewide Regional Evacuation Studies used the following guiding principles for the demographic analysis:

1. The best available data should be used for creating housing unit counts and population estimates, housing unit and population projections, and demographic profiles.
2. All regional studies use the April 1, 2012 of University of Florida's Bureau of Economic and Business Research (BEBR) baseline for housing unit and population estimates.

Determining County Shelter Capacities. County shelter capacity data for all 67 counties were updated by local emergency management agencies through 2011. Since 1995, Florida has been implementing ARC 4496 hurricane evacuation shelter criteria and Florida's *Model Hurricane Evacuation Shelter Selection Guidelines*. Therefore, based upon subsequent results of regional and county hurricane evacuation shelter surveys, local emergency management agencies were requested to provide shelter inventory capacities based on those facilities that met the required ARC 4496 standards, and separately those facilities that did not.

Those facilities that have not yet been surveyed, and therefore have not yet been documented to meet the above standards, were designated as facilities not meeting the ARC 4496 standards. The Division has standardized a consistent methodology of calculating shelter capacities across the state for the purpose of this Plan. For each shelter, a net square footage for the building was derived from the Florida Department of Education's FISH database, including only those room types listed in Appendix H of this Plan. See Appendix H. Then, each room's square footage was multiplied by a usability factor based on room type.

This generated a "dormitory" or square footage area that is usable as clear shelter space. This figure was then divided by 20 square feet per person for general population risk shelters and 60 square feet per client for special needs risk shelters. These are the square footages and capacities used to calculate the Hurricane evacuation shelter deficit reduction in this Plan.

The Division recognizes that many counties have local preferences and practices that may further limit usage of buildings. For example, one county may choose to utilize only hallways, gyms or cafeterias, even though the rest of the building (i.e., classrooms) also meets ARC 4496 guidelines. In some cases, the limiting factor is the number of available staff, i.e., they can staff for only 500 people in a given location, even though they have space for many more. Also the local shelter capacity at a specific building may exceed local need. In recognition of these and other variances, the Division has included a column titled "Local Planned Usage" in the individual county tables in Appendix A. However, it should be noted that the capacities calculated per the method in the paragraph above, still exist and could, in an emergency, be utilized and therefore are counted toward elimination of the regional and county hurricane evacuation shelter space deficit.

Determining County Shelter Demand. The hurricane evacuation shelter demand percentage for each county reflects the percentage of a county's vulnerable population that is projected to seek public shelter. These percentages are based on the conclusions of the behavioral analyses conducted for each of the regional evacuation studies. The analyses utilize survey and statistical methodologies to estimate behavioral responses to various hurricane scenarios. It is important to note that results obtained by a survey do NOT always correlate to actual behavior. What people say they will do during a "blue sky" survey often differs from actual behavior, which is influenced by a number of factors. Strength of storm, time since most recent significant disaster, and previous experience (or lack of) with tropical weather are just a few factors that influence a person's decision to evacuate or seek shelter. Hence, shelter demand may fluctuate over time. All estimates are based on a worst case storm scenario and optimal compliance with local evacuation orders.

Most of the behavioral analyses in the state have been prepared on a regional basis by Hazards Management Group (HMG) and are therefore a consistent benchmark relative to the survey methodologies and statistical applications. The public shelter use percentages in the behavioral section of the regional hurricane evacuation study are combined with local income characteristics in the hurricane risk area (two important variables in determining public shelter use) to calculate shelter demand numbers.

For this Plan, these data served as the basis for estimating the shelter demand for coastal and inland counties between 2016 and 2021. The same methodology for projecting the vulnerable population during this period was used to calculate the estimated shelter demand figures for those years. The Shelter Demand for the Persons with Special Needs (PSN) is also utilized information from the 2015 SRES with adjustments directed by County Emergency Managements.

3.2 Location and Square Footage of Existing and Needed Shelters

Tables 3-1 and 3-2 below provide information regarding location and shelter occupant capacity of both existing and needed hurricane evacuation shelters (i.e., risk shelters) for each of the 67 Florida counties. The tables also show which regions of the state have a deficit of hurricane evacuation shelter space.

3.3 Pet-Friendly Shelter Availability

A recurrent concern noted during past hurricanes is the need to provide shelters for domestic companion animals (pets). In many cases, pet-owners are unwilling to go to shelters during hurricanes due to the lack of facilities to keep their pets. Most shelters will only allow service animals. In some counties provisions have been made at local Agricultural Centers for horses and large animals. In a few cases, rooms (e.g., locker rooms) were set aside in hurricane evacuation shelters for pets that were brought anyway. Pursuant to §252.385(2)(b), Fla. Stat., this Plan includes information on the availability of shelters that accept pets.

Statewide, 28 counties provide a limited number of pet-friendly hurricane evacuation shelters that meet minimum hurricane safety criteria (i.e., ARC 4496). The pet-friendly shelters have a total human occupant capacity of 74,972 spaces. These pet-friendly shelters are designated with an "A" under the column titled: "General (G), PSN (P), Pet-Friendly (A)" in Appendix A: "List of Hurricane Evacuation Shelters by County, Location and Capacity." It should be noted that 15,900 of the statewide total of 74,972 spaces are located in Bay County. Another 9 counties indicate they have designated pet-friendly hurricane evacuation shelters, but they do not meet minimum hurricane safety criteria. There are 30 counties without pet-friendly shelters.

Figure 3-2 provides a summary of the counties with designated pet-friendly shelters.

NOTE: For clarification, the Division defines "Pet-Friendly Shelters" as public shelters that have made arrangements to accept pets. Normally this includes setting aside separate areas within the public shelter or adjacent facilities with cages to control pets and isolate them from the sheltering public. Those shelters that are only for pets (not accompanied by owners) are classified as "Pet Storage Facilities" and not included as Pet Friendly Shelters.

Figure 3-2. Florida Counties with Designated Pet-Friendly Shelters

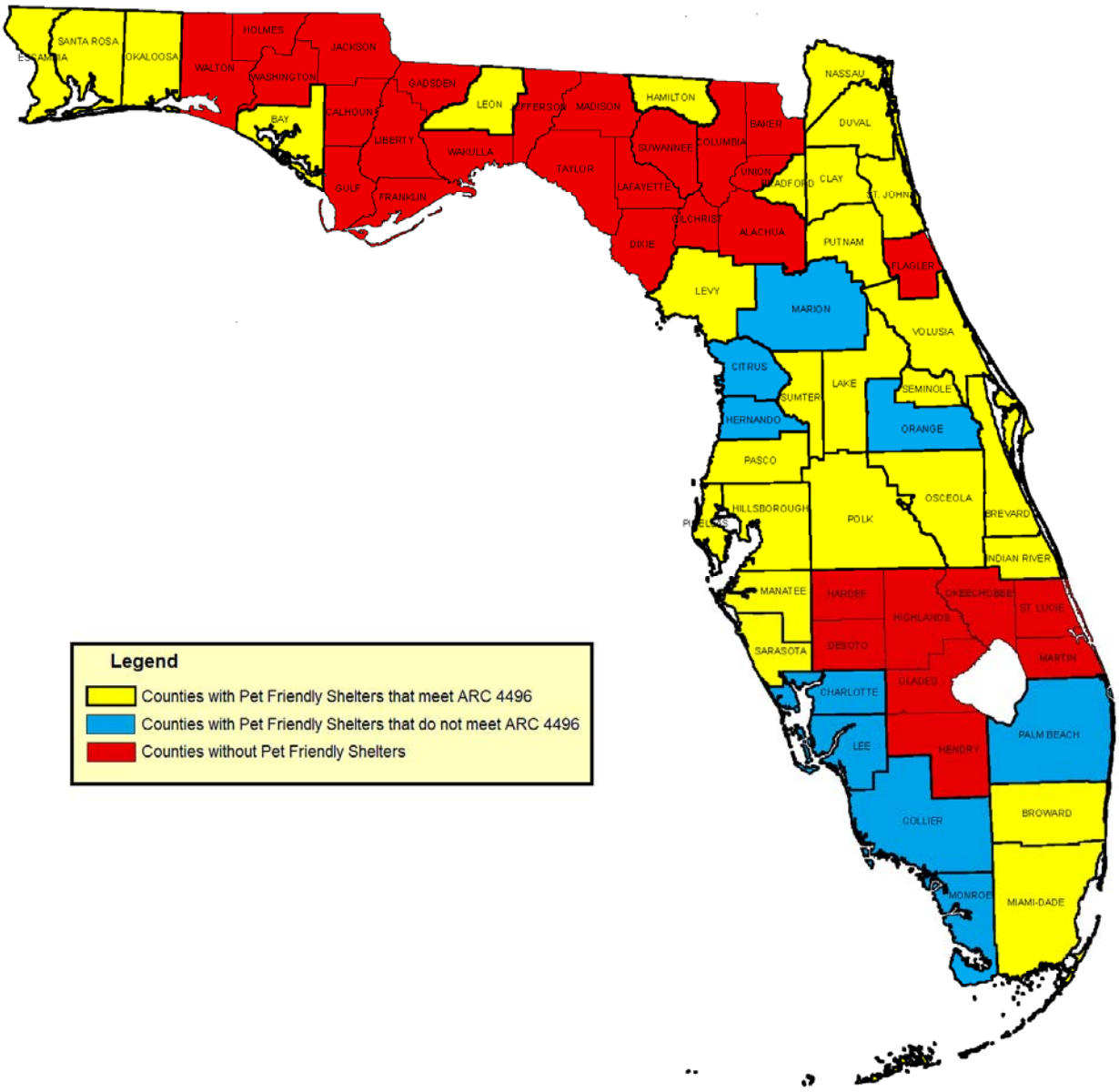


Table 3-1 (1)

RPC Region #	County	General Population Shelter Demand/Capacity					Special Needs Shelter Demand/Capacity				
		2016 Category 5 Shelter Demand In People	2021 Category 5 Shelter Demand In People	2016 Risk Shelter Capacity In People	2016 Shelter Sufficient Capacity / Deficit in People	2021 Shelter Sufficient Capacity / Deficit in People	2016 Category 5 Shelter Demand In Clients	2021 Category 5 Shelter Demand In Clients	2016 Risk Shelter Capacity In Clients	2016 Shelter Sufficient Capacity / Deficit in Clients	2021 Sufficient Capacity / Deficit in Clients
1	Bay	6,443	6,533	15,599	9,156	9,066	1,712	1,736	301	(1,411)	(1,435)
1	Escambia	10,680	10,830	26,153	15,473	15,324	879	891	602	(277)	(289)
1	Holmes	991	1,005	1,332	341	327	121	123	38	(83)	(85)
1	Okaloosa	5,927	6,010	13,517	7,590	7,507	100	101	82	(18)	(19)
1	Santa Rosa	5,875	5,957	12,067	6,192	6,110	150	152	940	790	788
1	Walton	1,807	1,832	9,205	7,398	7,372	150	152	92	(58)	(60)
1	Washington	1,530	1,551	4,636	3,106	3,085	166	168	144	(22)	(24)
Region 1 Total		**33,253**	**33,719**	**82,509**	**49,256**	**48,791**	**3,278**	**3,324**	**2,199**	**(1,079)**	**(1,125)**
2	Calhoun	1,019	1,032	262	(757)	(770)	91	92	0	(91)	(92)
2	Franklin	319	325	0	(319)	(325)	214	218	0	(214)	(218)
2	Gadsden	3,272	3,360	7,649	4,377	4,289	632	649	0	(632)	(649)
2	Gulf	532	542	460	(72)	(82)	208	212	0	(208)	(212)
2	Jackson	1,757	1,769	3,831	2,074	2,062	143	144	33	(110)	(111)
2	Jefferson	664	687	809	145	122	278	288	0	(278)	(288)
2	Leon	3,987	3,994	22,398	18,411	18,404	600	612	705	105	93
2	Liberty	467	495	1,585	1,118	1,090	275	292	73	(202)	(218)
2	Wakulla	844	886	800	(44)	(86)	100	105	0	(100)	(105)
Region 2 Total		**12,861**	**13,091**	**37,794**	**24,933**	**24,703**	**2,541**	**2,612**	**811**	**(1,730)**	**(1,800)**
3	Alachua	11,864	11,923	10,712	(1,152)	(1,211)	1,200	1,206	621	(579)	(585)
3	Bradford	1,287	1,304	1,481	194	177	167	169	214	47	45
3	Columbia	4,661	4,716	4,105	(556)	(611)	438	443	0	(438)	(443)
3	Dixie	1,832	1,850	826	(1,006)	(1,024)	142	143	0	(142)	(143)
3	Gilchrist	1,123	1,131	3,027	1,904	1,896	76	77	102	26	25
3	Hamilton	1,038	1,048	1,621	583	573	76	77	76	(0)	(1)
3	Lafayette	609	611	587	(22)	(24)	13	13	60	47	47
3	Levy	4,184	4,203	2,567	(1,617)	(1,636)	19	19	136	117	117
3	Madison	1,259	1,268	4,208	2,949	2,940	67	67	28	(39)	(39)
3	Marion	18,166	18,257	16,356	(1,811)	(1,901)	1,000	1,005	940	(60)	(65)
3	Suwannee	3,872	3,885	3,484	(388)	(401)	92	92	50	(42)	(42)
3	Taylor	1,713	1,721	6,568	4,855	4,847	63	63	0	(63)	(63)
3	Union	708	713	1,683	975	970	43	43	33	(10)	(10)
Region 3 Total		**52,316**	**52,629**	**57,225**	**4,909**	**4,595**	**3,396**	**3,419**	**2,260**	**(1,136)**	**(1,159)**

Table 3-1 (2)

RPC Region #	County	General Population Shelter Demand/Capacity					Special Needs Shelter Demand/Capacity				
		2016 Category 5 Shelter Demand In People	2021 Category 5 Shelter Demand In People	2016 Risk Shelter Capacity In People	2016 Shelter Sufficient Capacity / Deficit in People	2021 Shelter Sufficient Capacity / Deficit in People	2016 Category 5 Shelter Demand In Clients	2021 Category 5 Shelter Demand In Clients	2016 Risk Shelter Capacity In Clients	2016 Shelter Sufficient Capacity / Deficit in Clients	2021 Sufficient Capacity / Deficit in Clients
4	Baker	2,618	2,631	2,663	45	32	79	79	0	(79)	(79)
4	Clay	11,281	11,326	7,446	(3,835)	(3,880)	250	251	152	(98)	(99)
4	Duval	40,802	41,088	45,148	4,346	4,060	4,262	4,292	2,377	(1,885)	(1,915)
4	Flagler	6,227	6,258	6,998	771	739	328	330	122	(206)	(208)
4	Nassau	5,318	5,334	4,251	(1,067)	(1,083)	208	209	156	(52)	(53)
4	Putnam	4,748	4,748	4,546	(202)	(202)	100	100	145	45	45
4	Saint Johns	11,325	11,359	17,135	5,810	5,776	515	517	500	(15)	(17)
Region 4 Total		**82,319**	**82,744**	**88,186**	**5,867**	**5,442**	**5,742**	**5,777**	**3,452**	**(2,290)**	**(2,325)**
5	Brevard	31,469	31,563	40,114	8,645	8,551	2,090	2,096	2,330	240	234
5	Lake	24,960	25,334	27,645	2,685	2,311	1,414	1,435	314	(1,100)	(1,121)
5	Orange	27,952	28,184	29,806	1,854	1,622	3,800	3,832	1,402	(2,398)	(2,430)
5	Osceola	10,151	10,202	24,652	14,501	14,450	660	663	1,331	671	668
5	Seminole	11,445	11,466	31,126	19,681	19,661	750	751	300	(450)	(451)
5	Sumter	9,786	9,818	911	(8,875)	(8,907)	32	32	0	(32)	(32)
5	Volusia	39,238	39,485	22,680	(16,558)	(16,805)	363	365	1,490	1,127	1,125
Region 5 Total		**155,001**	**156,053**	**176,935**	**21,934**	**20,882**	**9,109**	**9,175**	**7,167**	**(1,942)**	**(2,008)**
6	Desoto	3,159	3,244	2,542	(617)	(702)	120	123	211	91	88
6	Hardee	2,167	2,210	4,687	2,520	2,477	36	37	75	39	38
6	Highlands	11,553	11,634	8,513	(3,040)	(3,121)	285	287	75	(210)	(212)
6	Okeechobee	7,342	7,584	1,822	(5,520)	(5,762)	1,273	1,315	0	(1,273)	(1,315)
6	Polk	42,257	42,806	34,517	(7,740)	(8,289)	3,246	3,288	1,063	(2,183)	(2,225)
Region 6 Total		**66,478**	**67,479**	**52,081**	**(14,397)**	**(15,398)**	**4,960**	**5,050**	**1,424**	**(3,536)**	**(3,626)**

Table 3-1 (3)

RPC Region #	County	General Population Shelter Demand/Capacity					Special Needs Shelter Demand/Capacity				
		2016 Category 5 Shelter Demand In People	2021 Category 5 Shelter Demand In People	2016 Risk Shelter Capacity In People	2016 Shelter Sufficient Capacity / Deficit in People	2021 Shelter Sufficient Capacity / Deficit in People	2016 Category 5 Shelter Demand In Clients	2021 Category 5 Shelter Demand In Clients	2016 Risk Shelter Capacity In Clients	2016 Shelter Sufficient Capacity / Deficit in Clients	2021 Sufficient Capacity / Deficit in Clients
7	Citrus	13,314	13,374	3,647	(9,667)	(9,727)	60	60	208	148	148
7	Hernando	11,565	11,609	9,056	(2,509)	(2,552)	44	44	411	367	367
7	Hillsborough	52,316	52,515	90,223	37,907	37,708	2,927	2,938	2,480	(447)	(458)
7	Manatee	24,060	24,228	30,504	6,444	6,275	500	504	933	433	430
7	Pasco	31,294	31,569	26,214	(5,080)	(5,356)	966	975	1,542	576	567
7	Pinellas	42,178	42,621	31,504	(10,674)	(11,117)	4,000	4,042	2,268	(1,732)	(1,774)
Region 7 Total		**174,727**	**175,916**	**191,148**	**16,421**	**15,232**	**8,497**	**8,563**	**7,842**	**(655)**	**(721)**
8	Charlotte	12,089	12,180	0	(12,089)	(12,180)	1,277	1,287	0	(1,277)	(1,287)
8	Collier	29,964	30,129	5,784	(24,180)	(24,345)	2,011	2,022	0	(2,011)	(2,022)
8	Glades	1,594	1,597	686	(908)	(911)	19	19	110	91	91
8	Hendry	3,285	3,312	6,263	2,978	2,951	204	206	0	(204)	(206)
8	Lee	71,410	71,681	500	(70,910)	(71,181)	3,285	3,297	0	(3,285)	(3,297)
8	Sarasota	29,826	30,088	12,802	(17,024)	(17,286)	2,971	2,997	1,091	(1,880)	(1,906)
Region 8 Subtotals		**148,168**	**148,987**	**26,035**	**(122,133)**	**(122,952)**	**9,767**	**9,828**	**1,201**	**(8,566)**	**(8,627)**
9	Indian River	5,805	5,950	9,925	4,120	3,975	501	514	582	81	68
9	Martin	5,331	5,448	20,061	14,730	14,613	400	409	1,369	969	960
9	Palm Beach	29,754	30,111	70,348	40,594	40,237	2,520	2,550	800	(1,720)	(1,750)
9	Saint Lucie	7,833	8,029	16,885	9,052	8,856	2,851	2,922	500	(2,351)	(2,422)
Region 9 Subtotals		**48,723**	**49,538**	**117,219**	**68,496**	**67,681**	**6,272**	**6,395**	**3,251**	**(3,021)**	**(3,144)**
10	Broward	28,299	28,356	58,955	30,656	30,599	1,277	1,280	1,550	273	270
10	Miami-Dade	97,855	98,149	88,467	(9,388)	(9,681)	2,717	2,725	3,308	591	583
10	Monroe	2,590	2,593	602	(1,988)	(1,991)	461	462	121	(340)	(341)
Region 10 Subtotals		**128,744**	**129,097**	**148,024**	**19,280**	**18,927**	**4,455**	**4,466**	**4,979**	**524**	**513**
TOTALS		**902,590**	**909,255**	**977,157**	**74,567**	**67,902**	**58,017**	**58,608**	**34,586**	**(23,431)**	**(24,022)**

Table 3-2 (1)

RPC Region #	County	General Population Shelter Demand/Capacity					Special Needs Shelter Demand/Capacity				
		2016 Category 5 Shelter Demand In SqFt (estimated)	2021 Category 5 Shelter Demand In SqFt (estimated)	2016 Risk Shelter Capacity In SqFt	2016 Shelter Adequate Capacity / Deficit In SqFt	2021 Shelter Adequate Capacity / Deficit In SqFt	2016 Category 5 Shelter Demand In SqFt (estimated)	2021 Category 5 Shelter Demand In SqFt (estimated)	2016 Risk Shelter Capacity In SqFt	2016 Shelter Adequate Capacity / Deficit In SqFt	2021 Shelter Adequate Capacity / Deficit In SqFt
1	Bay	128,860	130,664	311,980	183,120	181,316	102,720	104,158	18,060	(84,660)	(86,098)
1	Escambia	213,600	216,590	523,068	309,468	306,478	52,740	53,478	36,120	(16,620)	(17,358)
1	Holmes	19,820	20,097	26,640	6,820	6,543	7,260	7,362	2,280	(4,980)	(5,082)
1	Okaloosa	118,540	120,200	270,346	151,806	150,146	6,000	6,084	4,920	(1,080)	(1,164)
1	Santa Rosa	117,500	119,145	241,340	123,840	122,195	9,000	9,126	56,400	47,400	47,274
1	Walton	36,140	36,646	184,095	147,955	147,449	9,000	9,126	5,520	(3,480)	(3,606)
1	Washington	30,600	31,028	92,720	62,120	61,692	9,960	10,099	8,640	(1,320)	(1,459)
Region 1 Total		**665,060**	**674,371**	**1,650,189**	**985,129**	**975,818**	**196,680**	**199,434**	**131,940**	**(64,740)**	**(67,494)**
2	Calhoun	20,380	20,645	5,236	(15,144)	(15,409)	5,460	5,531	0	(5,460)	(5,531)
2	Franklin	6,380	6,508	0	(6,380)	(6,508)	12,840	13,097	0	(12,840)	(13,097)
2	Gadsden	65,440	67,207	152,984	87,544	85,777	37,920	38,944	0	(37,920)	(38,944)
2	Gulf	10,640	10,832	9,200	(1,440)	(1,632)	12,480	12,705	0	(12,480)	(12,705)
2	Jackson	35,140	35,386	76,620	41,480	41,234	8,580	8,640	1,980	(6,600)	(6,660)
2	Jefferson	13,280	13,745	16,180	2,900	2,435	16,680	17,264	0	(16,680)	(17,264)
2	Leon	79,740	79,880	447,960	368,220	368,080	36,000	36,720	42,300	6,300	5,580
2	Liberty	9,340	9,900	31,706	22,366	21,806	16,500	17,490	4,391	(12,109)	(13,099)
2	Wakulla	16,880	17,724	16,000	(880)	(1,724)	6,000	6,300	0	(6,000)	(6,300)
Region 2 Total		**257,220**	**261,826**	**755,886**	**498,666**	**494,060**	**152,460**	**156,690**	**48,671**	**(103,789)**	**(108,019)**
3	Alachua	237,280	238,466	214,249	(23,031)	(24,217)	72,000	72,360	37,239	(34,761)	(35,121)
3	Bradford	25,740	26,082	29,620	3,880	3,538	10,020	10,153	12,840	2,820	2,687
3	Columbia	93,220	94,320	82,100	(11,120)	(12,220)	26,280	26,590	0	(26,280)	(26,590)
3	Dixie	36,640	37,006	16,520	(20,120)	(20,486)	8,520	8,605	0	(8,520)	(8,605)
3	Gilchrist	22,460	22,613	60,540	38,080	37,927	4,560	4,591	6,120	1,560	1,529
3	Hamilton	20,760	20,968	32,420	11,660	11,452	4,560	4,606	4,555	(5)	(51)
3	Lafayette	12,180	12,220	11,740	(440)	(480)	780	783	3,600	2,820	2,817
3	Levy	83,680	84,057	51,333	(32,347)	(32,724)	1,140	1,145	8,160	7,020	7,015
3	Madison	25,180	25,351	84,160	58,980	58,809	4,020	4,047	1,680	(2,340)	(2,367)
3	Marion	363,320	365,137	327,110	(36,210)	(38,027)	60,000	60,300	49,102	(10,898)	(11,198)
3	Suwannee	77,440	77,696	69,680	(7,760)	(8,016)	5,520	5,538	3,000	(2,520)	(2,538)
3	Taylor	34,260	34,414	131,360	97,100	96,946	3,780	3,797	0	(3,780)	(3,797)
3	Union	14,160	14,256	33,660	19,500	19,404	2,580	2,598	1,980	(600)	(618)
Region 3 Total		**1,046,320**	**1,052,586**	**1,144,492**	**98,172**	**91,906**	**203,760**	**205,113**	**128,276**	**(75,484)**	**(76,837)**

Table 3-2 (2)

RPC Region #	County	General Population Shelter Demand/Capacity					Special Needs Shelter Demand/Capacity				
		2016 Category 5 Shelter Demand In SqFt (estimated)	2021 Category 5 Shelter Demand In SqFt (estimated)	2016 Risk Shelter Capacity In SqFt	2016 Shelter Adequate Capacity / Deficit In SqFt	2021 Shelter Adequate Capacity / Deficit In SqFt	2016 Category 5 Shelter Demand In SqFt (estimated)	2021 Category 5 Shelter Demand In SqFt (estimated)	2016 Risk Shelter Capacity In SqFt	2016 Shelter Adequate Capacity / Deficit In SqFt	2021 Shelter Adequate Capacity / Deficit In SqFt
4	Baker	52,360	52,622	53,260	900	638	4,740	4,764	0	(4,740)	(4,764)
4	Clay	225,620	226,522	148,919	(76,701)	(77,603)	15,000	15,060	9,120	(5,880)	(5,940)
4	Duval	816,040	821,752	902,960	86,920	81,208	255,720	257,510	142,620	(113,100)	(114,890)
4	Flagler	124,540	125,163	139,952	15,412	14,789	19,680	19,778	7,320	(12,360)	(12,458)
4	Nassau	106,360	106,679	85,020	(21,340)	(21,659)	12,480	12,517	9,360	(3,120)	(3,157)
4	Putnam	94,960	94,969	90,920	(4,040)	(4,049)	6,000	6,001	8,677	2,677	2,676
4	Saint Johns	226,500	227,180	342,691	116,191	115,512	30,900	30,993	30,000	(900)	(993)
Region 4 Total		**1,646,380**	**1,654,887**	**1,763,722**	**117,342**	**108,835**	**344,520**	**346,623**	**207,097**	**(137,423)**	**(139,526)**
5	Brevard	629,380	631,268	802,280	172,900	171,012	125,400	125,776	139,800	14,400	14,024
5	Lake	499,200	506,688	552,909	53,709	46,221	84,840	86,113	18,840	(66,000)	(67,273)
5	Orange	559,040	563,680	596,120	37,080	32,440	228,000	229,892	84,120	(143,880)	(145,772)
5	Osceola	203,020	204,035	493,040	290,020	289,005	39,600	39,798	79,860	40,260	40,062
5	Seminole	228,900	229,312	622,527	393,627	393,215	45,000	45,081	18,000	(27,000)	(27,081)
5	Sumter	195,720	196,366	18,217	(177,503)	(178,149)	1,920	1,926	0	(1,920)	(1,926)
5	Volusia	784,760	789,704	453,606	(331,154)	(336,098)	21,780	21,917	89,400	67,620	67,483
Region 5 Total		**3,100,020**	**3,121,053**	**3,538,699**	**438,679**	**417,646**	**546,540**	**550,504**	**430,020**	**(116,520)**	**(120,484)**
6	Desoto	63,180	64,886	50,840	(12,340)	(14,046)	7,200	7,394	12,660	5,460	5,266
6	Hardee	43,340	44,207	93,740	50,400	49,533	2,160	2,203	4,500	2,340	2,297
6	Highlands	231,060	232,677	170,260	(60,800)	(62,417)	17,100	17,220	4,500	(12,600)	(12,720)
6	Okeechobee	146,840	151,686	36,440	(110,400)	(115,246)	76,380	78,901	0	(76,380)	(78,901)
6	Polk	845,140	856,127	690,340	(154,800)	(165,787)	194,760	197,292	63,780	(130,980)	(133,512)
Region 6 Total		**1,329,560**	**1,349,583**	**1,041,620**	**(287,940)**	**(307,963)**	**297,600**	**303,010**	**85,440**	**(212,160)**	**(217,570)**

Table 3-2 (3)

RPC Region #	County	General Population Shelter Demand/Capacity					Special Needs Shelter Demand/Capacity				
		2016 Category 5 Shelter Demand In SqFt (estimated)	2021 Category 5 Shelter Demand In SqFt (estimated)	2016 Risk Shelter Capacity In SqFt	2016 Shelter Adequate Capacity / Deficit In SqFt	2021 Shelter Adequate Capacity / Deficit In SqFt	2016 Category 5 Shelter Demand In SqFt (estimated)	2021 Category 5 Shelter Demand In SqFt (estimated)	2016 Risk Shelter Capacity In SqFt	2016 Shelter Adequate Capacity / Deficit In SqFt	2021 Shelter Adequate Capacity / Deficit In SqFt
7	Citrus	266,280	267,478	72,940	(193,340)	(194,538)	3,600	3,616	12,488	8,888	8,872
7	Hernando	231,300	232,179	181,129	(50,171)	(51,050)	2,640	2,650	24,660	22,020	22,010
7	Hillsborough	1,046,320	1,050,296	1,804,460	758,140	754,164	175,620	176,287	148,800	(26,820)	(27,487)
7	Manatee	481,200	484,568	610,076	128,876	125,508	30,000	30,210	55,980	25,980	25,770
7	Pasco	625,880	631,388	524,275	(101,605)	(107,113)	57,960	58,470	92,512	34,552	34,042
7	Pinellas	843,560	852,417	630,080	(213,480)	(222,337)	240,000	242,520	136,080	(103,920)	(106,440)
Region 7 Totals:		**3,494,540**	**3,518,327**	**3,822,960**	**328,420**	**304,633**	**509,820**	**513,754**	**470,520**	**(39,300)**	**(43,234)**
8	Charlotte	241,780	243,593	0	(241,780)	(243,593)	76,620	77,195	0	(76,620)	(77,195)
8	Collier	599,280	602,576	115,680	(483,600)	(486,896)	120,660	121,324	0	(120,660)	(121,324)
8	Glades	31,880	31,937	13,720	(18,160)	(18,217)	1,140	1,142	6,600	5,460	5,458
8	Hendry	65,700	66,245	125,260	59,560	59,015	12,240	12,342	0	(12,240)	(12,342)
8	Lee	1,428,200	1,433,627	10,000	(1,418,200)	(1,423,627)	197,100	197,849	0	(197,100)	(197,849)
8	Sarasota	596,520	601,769	256,041	(340,479)	(345,728)	178,260	179,829	65,460	(112,800)	(114,369)
Region 8 Totals:		**2,963,360**	**2,979,749**	**520,701**	**(2,442,659)**	**(2,459,048)**	**586,020**	**589,680**	**72,060**	**(513,960)**	**(517,620)**
9	Indian River	116,100	119,003	198,497	82,397	79,495	30,060	30,812	34,920	4,860	4,109
9	Martin	106,620	108,966	401,220	294,600	292,254	24,000	24,528	82,140	58,140	57,612
9	Palm Beach	595,080	602,221	1,406,961	811,881	804,740	151,200	153,014	48,000	(103,200)	(105,014)
9	Saint Lucie	156,660	160,577	337,700	181,040	177,124	171,060	175,337	30,000	(141,060)	(145,337)
Region 9 Subtotals		**974,460**	**990,766**	**2,344,378**	**1,369,918**	**1,353,612**	**376,320**	**383,690**	**195,060**	**(181,260)**	**(188,630)**
10	Broward	565,980	567,112	1,179,100	613,120	611,988	76,620	76,773	93,000	16,380	16,227
10	Miami-Dade	1,957,100	1,962,971	1,769,346	(187,754)	(193,625)	163,020	163,509	198,480	35,460	34,971
10	Monroe	51,800	51,864	12,040	(39,760)	(39,824)	27,660	27,694	7,260	(20,400)	(20,434)
Region 10 Totals:		**2,574,880**	**2,581,947**	**2,960,486**	**385,606**	**378,539**	**267,300**	**267,976**	**298,740**	**31,440**	**30,764**
TOTALS		**18,051,800**	**18,185,094**	**19,543,133**	**1,491,333**	**1,358,039**	**1,160,340**	**1,172,158**	**689,275**	**(471,065)**	**(482,883)**

4.0 TYPES OF PUBLIC FACILITIES THAT SHOULD COMPLY WITH PUBLIC SHELTER DESIGN CRITERIA

By statute, all appropriate public facilities are subject to being used as public hurricane evacuation shelters in a declared state or local emergency. See §252.385, Fla. Stat. Therefore, any appropriate new public facility should include emergency shelter criteria. This includes not only public educational facilities, but also certain types of state and local government facilities. In general, facilities that are designed for public assembly, either as a primary or auxiliary use, may be appropriate for use as public shelters during an emergency. At this time, only public educational facilities are subject to the EHPA criteria by statute and code. This is primarily due to the fact that public educational facilities account for about 99 percent of current public hurricane evacuation shelter space, and relatively few other state and local facilities are appropriate for use as public shelters.

The public shelter space may be located in a single building or a campus or office center with multiple buildings, placed in a single large room or multiple medium sized rooms in close proximity to each other, or in one or more stories of multistory buildings. Preferably the buildings will have a means of inside circulation and convenient access to toilets and hand washing facilities.

To determine if a proposed new public facility should be subject to the EHPA criteria, regardless of non-educational function or agency with ownership, the proposed facility should be reviewed based upon the exemption criteria given in Section 2.2 of this Plan. Facilities not subject to an exemption may be appropriate for use as public hurricane evacuation shelters. The decision to incorporate emergency shelter criteria into a new public facility must be coordinated with the local emergency management agency(s) or the Division.

4.1 Public Schools and Community Colleges

District public schools (K-12) are the primary source of public hurricane evacuation shelter space in Florida, accounting for about 97 percent of current capacity. This is due to the fact that schools are widely distributed in populated areas, school facilities are designed for large assembly occupancies with many inherent mass care features (e.g., adequate quantity of toilets, dining/feeding areas, etc.), access to the facilities can be coordinated through a single local agency, etc. The types of school buildings that are potentially appropriate for use as public shelters include gymnasiums, cafeteria/dining, multipurpose, auditoriums and certain classroom buildings.

Community or state colleges account for only about one (1) percent of current public shelter capacity. Colleges are regionally distributed, and potentially located in areas with high demands for public hurricane evacuation shelter space. As with K-12 public schools, colleges are normally designed for large assembly occupancies and possess many inherent mass care features. The types of college buildings that are potentially appropriate for use as public shelters include gymnasiums, cafeterias, multipurpose facilities, auditoriums and certain classroom buildings.

4.2 Charter Schools

Charter schools have a general exemption from meeting many of the requirements of K-12 public schools under §1002.33(16)(a), Fla. Stat. However, §1002.33(18), Fla. Stat., requires charter schools that are not conversion schools (i.e. startup charter schools) to utilize facilities which comply with the generally applicable provisions of the Florida Building Code, but not the State Requirements for Educational Facilities. Privately owned charter school facilities are not required to be designated as emergency shelters under § 1013.372, Fla. Stat.

Pursuant to § 252.385, Fla. Stat., if the owner of a privately owned charter school facility agrees in writing to use the facility as a public hurricane evacuation shelter, then the facility shall, at a minimum, comply with s. 453.25, *Florida Building Code—Building*.

4.3 State Universities

State university facilities account for only about one (1) percent of current public hurricane evacuation shelter capacity. Unlike K-12 public schools and colleges, state university campuses may not be as widely distributed, though several are potentially located in areas with high demands for public hurricane evacuation shelter space (e.g., Florida International University, University of South Florida, etc.) Main campuses and some satellite campuses may have several appropriate buildings concentrated in one (or more) proximate geographic area. This concentration of shelter spaces reduces staffing and logistical resource demands of a sheltering operation.

State university facilities are typically designed for large assembly occupancies, with many having inherent mass care features. The types of university buildings that are potentially appropriate for use as public shelters include gymnasiums, field houses and sports arenas, cafeterias or dining rooms, multipurpose facilities, auditoriums and certain classroom buildings.

State universities must consider two separate populations when developing their public shelter strategies: 1) campus staff, faculty and their families, and students (both commuters and residential); and 2) the general public. University facilities may be designated for sole use by one population, or concurrent use by both populations, at the discretion of the university board with the concurrence of local emergency management agency or the Division. Residential facilities are not normally subject to the EHPA, but incorporation of the criteria into new residential housing or dormitories (or portions thereof) will free up additional hurricane evacuation shelter space for the general public in appropriate non-residential facilities.

4.4 State and Local Public Facilities

Local public facilities account for about one (1) percent of current public hurricane evacuation shelter capacity. Given their administrative function (and essential emergency function of certain facilities) most state-owned, county-owned and municipally-owned facilities are not appropriate for use as public hurricane evacuation shelters. Administrative office and support areas, data and word processing rooms and areas, record vaults, etc., are exempt from the EHPA. However, certain other types of public facilities may be appropriate, such as community or civic centers, meeting halls, auditoriums, exhibition halls, sports arenas, conference or training centers, and other public assembly facilities.

5.0 RECOMMENDED SOURCES OF FUNDING

School districts have historically reported that the construction cost premium for incorporating the EHPA code provisions can range from less than one (1) to as much as 20 percent, though the average was about three (3) to four (4) percent. For most new facilities, this appeared to translate into a construction cost premium of less than $900,000. The Department of Education recently conducted a limited poll of districts for more recent EHPA construction cost premium information. The poll indicated a higher cost per facility than historical costs. The poll indicated a construction cost premium of about seven (7) percent, which translates into about $2,900,000 per new facility. These are not necessarily inconsequential costs that must be borne by State and local governments. Therefore, pursuant to §1013.372(2), Fla. Stat., the Division recommends use of existing state capital outlay to fund the additional cost of constructing hurricane evacuation shelters in public schools.

5.1 Public Schools, Colleges and University Facilities

Historically, there have been a variety of state capital outlay funding sources, such as Public Education Capital Outlay (PECO). For illustration purposes, Table 5-1 provides a summary of PECO funds that have been distributed to local school boards since fiscal year 2006-07. The PECO funding information was provided by the Department of Education. Universities and colleges are not included in Table 5-1 due to the fact that only about two (2) percent of the statewide public hurricane evacuation shelter capacity is located on their campuses. Table 5-1 reflects the fact that since 2008-09, no PECO funds have been available to school districts for public school construction.

Figure 5-1
Public Education Capital Outlay (PECO)
K-12 Public Schools

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-
PECO - Survey Recommended (New Construction)	242,210,258	292,112,224	145,565,408	0	0	0	0	0	0	0
Total	$242,210,258	$292,112,224	$145,565,408	0	0	0	0	0	0	0

6.0 STATEWIDE PROGRESS TOWARD ELIMINATING THE PUBLIC HURRICANE EVACUATION SHELTER SPACE DEFICIT

The Florida Division of Emergency Management is charged under §252.385, Fla. Stat. to administer a statewide program to eliminate the deficit of "safe" hurricane evacuation shelter space. The Division has taken several steps to implement the program. First, by conducting a survey of existing buildings, both public and private, to identify suitable shelter capacity. Second, where cost effective (and practical), support mitigation and retrofitting of facilities to increase shelter capacity. Third, require construction of new educational facilities to meet the EHPA code provisions. Fourth, conduct research to clearly identify demand. And fifth, improve public information/education to reduce shelter demand from evacuees not required to evacuate or "shadow" evacuations.

Since 1995, the Division has been performing a survey of existing designated and potential hurricane evacuation shelters. The initial findings of the survey were not encouraging. The vast majority of the designated hurricane evacuation shelters were in buildings that did not appear to meet the intent of ARC 4496 hurricane safety criteria. As examples, the pre-survey designated hurricane evacuation shelters rarely had adequate (if any) window protection (83 percent without protection), and were often constructed with long span roofs (41 percent with long span) and unreinforced masonry walls (43 percent with unreinforced masonry). The initial results of the survey began, for the first time, to quantify the actual condition of Florida's public hurricane evacuation shelter inventory, instead of relying on anecdotal concerns that had been expressed for more than 20 years. However, during the survey process, hundreds of thousands of spaces were identified that only required minor retrofitting (e.g., window protection) to meet the ARC 4496 criteria.

Between 1995 and 2000, the reported hurricane evacuation shelter space deficit increased considerably; from about 361,000 spaces in 1996 to more than 1.5 million in 2000. During this time-frame, less than 200,000 hurricane evacuation shelter spaces that met minimum hurricane evacuation shelter safety criteria could be documented. The spaces that could be documented were located primarily in the southeastern and east-central coastal regions of the state. This capacity was principally the result of post-Hurricane Andrew HMGP funding of public school window protection projects. Other than federal HMGP funds, no significant source of funding had been identified to support the minor retrofit projects being documented during the survey process.

Concurrently, §235.26(9)(a), Fla. Stat. (superseded by §1013.372(1), Fla. Stat.) stated that all new educational facilities for which a design contract was entered into after July 1, 1995 were required to incorporate the public shelter design criteria. However, the criteria did not become effective until April 28, 1997. It is not unusual for there to be a three-year delay between promulgation of a building code (or rule) and availability of the first group of compliant facilities. Therefore, minimal progress was made prior to 2000 via construction of new public schools to the EHPA code provisions.

By 2000, the reported hurricane evacuation shelter space deficit peaked as the strategy originally directed by Chapter 93-211, Laws of Florida, began to produce results. As a benchmark, the 2000 Plan reported that Florida had a statewide hurricane

evacuation shelter space deficit of more than 1.5 million spaces. This reported deficit affected every region of the state, but especially the southern and central regions of the peninsula. This did not imply that in any given storm that 1.5 million evacuees would simultaneously seek public shelter, but reflected the State's cumulative hurricane evacuation shelter space deficit. State and local emergency managers and other public officials prefer that persons ordered to evacuate for a hurricane stay within their home county or region, and not evacuate long distances. The 2000 Plan's published statewide and regional deficits served to quantify the challenge that lay ahead.

In 1999, the State Legislature appropriated more than $2.2 million to support a hurricane evacuation shelter retrofitting initiative. The appropriation stipulated that the funds be used to shutter school buildings for use as hurricane evacuation shelters. The Division used the *1999 Shelter Retrofit Report* to identify and prioritize projects to receive the funds. A total of 58 projects were selected, which created an estimated 34,928 spaces. In 2000, the State Legislature appropriated an additional $18 million (combined Federal, State and local funds) to complete the projects listed in the *1999 Shelter Retrofit Report*. The 2000 appropriation included funds from the Hurricane(s) Floyd and Irene (Federal HMGP declaration), which were earmarked to support the state's effort to reduce the deficit of hurricane evacuation shelter space.

Since 1995, through Federal, State, and local retrofitting of appropriate facilities, Florida has created a total of 430,820 public hurricane evacuation shelter spaces. The "Retrofitted / Mitigated Capacity Gained" column of Table 6-1 demonstrates county-by-county progress toward eliminating the hurricane evacuation shelter space deficit by retrofitting appropriate facilities to meet ARC 4496. Retrofitted facilities account for about 42 percent of the state's total capacity of ARC 4496 hurricane evacuation shelter spaces. The majority of this retrofit capacity has been created since 1999. Though regions and counties with the greatest deficits received priority for available retrofit funds, there has been a more widespread distribution of the retrofit funds due to the statewide nature of the deficit. Some of the retrofitted facilities have less than preferred mass care characteristics (e.g., inconveniently located toilet facilities, etc.), but the retrofit program produced a rapid improvement in the safety of Florida's hurricane evacuation shelter inventory.

Creation of hurricane evacuation shelter capacity through construction of new school facilities to the EHPA criteria has also increased since 1999. Local emergency management and school board officials have reported that 493,031 EHPA shelters spaces have been created. The "EHPA Capacity Gained" column of Table 6-1 demonstrates county-by-county progress toward eliminating the hurricane evacuation shelter space deficit via EHPA construction. The application of the EHPA criteria has been inconsistent across the state, with several counties reporting construction of relatively few (if any) EHPA spaces. EHPA spaces account for about 49 percent of the state's total capacity of ARC 4496 hurricane evacuation shelter spaces. However, as with any program, "institutionalization" takes time to evolve, and progress is being made.

Some 87,891 spaces were identified through surveys as meeting ARC 4496 guidelines ("As-Is") without further retrofitting needed. These facilities, however, did not meet all the EHPA code requirements. These Pre-Mitigation ARC 4496 spaces account for about 9 percent of the state's total spaces.

TABLE 6-1 Hurricane Evacuation Shelter Spaces Identified Since 1995

Totals Per County	Pre-Mitigation ARC 4496 Capacity (persons)	EHPA Capacity Gained (persons)	Retrofitted / Mitigated Capacity Gained (persons)	Total ARC 4496 Spaces
ALACHUA	1,216	1,600	8,517	**11,333**
BAKER	0	306	2,357	**2,663**
BAY	0	956	14,944	**15,900**
BRADFORD	0	0	1,695	**1,695**
BREVARD	1,566	12,063	28,815	**42,444**
BROWARD	500	60,005	0	**60,505**
CALHOUN	90	172	0	**262**
CHARLOTTE	0	0	0	**0**
CITRUS	0	208	3,647	**3,855**
CLAY	0	2,985	4,613	**7,598**
COLLIER	0	0	5,784	**5,784**
COLUMBIA	0	4,105	0	**4,105**
DESOTO	0	151	2,602	**2,753**
DIXIE	0	0	826	**826**
DUVAL	1,454	15,189	30,882	**47,525**
ESCAMBIA	4,388	1,803	20,564	**26,755**
FLAGLER	3,191	725	3,204	**7,120**
FRANKLIN	0	0	0	**0**
GADSDEN	0	5,732	1,917	**7,649**
GILCHRIST	0	0	3,129	**3,129**
GLADES	0	388	408	**796**
GULF	232	228	0	**460**
HAMILTON	0	1,196	501	**1,697**
HARDEE	139	4,623	0	**4,762**
HENDRY	939	1,000	4,324	**6,263**
HERNANDO	911	8,051	506	**9,467**
HIGHLANDS	2,176	6,137	275	**8,588**
HILLSBOROUGH	446	65,699	26,558	**92,703**
HOLMES	0	1,191	179	**1,370**
INDIAN RIVER	295	0	10,211	**10,507**
JACKSON	0	3,365	499	**3,864**
JEFFERSON	0	809	0	**809**
LAFAYETTE	0	0	647	**647**
LAKE	1,106	24,546	2,308	**27,959**
LEE	0	0	500	**500**

TABLE 6-1 Hurricane Evacuation Shelter Spaces Identified Since 1995				
Totals Per County	**Pre-Mitigation ARC 4496 Capacity (persons)**	**EHPA Capacity Gained (persons)**	**Retrofitted / Mitigated Capacity Gained (persons)**	**Total ARC 4496 Spaces**
LEON	822	1,245	21,036	**23,103**
LEVY	0	354	2,349	**2,703**
LIBERTY	0	822	836	**1,658**
MADISON	0	0	4,236	**4,236**
MANATEE	0	21,702	9,735	**31,437**
MARION	629	10,257	6,410	**17,296**
MARTIN	5,536	10,047	5,847	**21,430**
MIAMI-DADE	18,292	22,499	50,985	**91,775**
MONROE	0	0	723	**723**
NASSAU	0	4,081	326	**4,407**
OKALOOSA	6,454	2,025	5,121	**13,599**
OKEECHOBEE	0	1,011	811	**1,822**
ORANGE	2,055	28,678	475	**31,208**
OSCEOLA	0	7,160	18,823	**25,983**
PALM BEACH	1,926	48,355	20,867	**71,148**
PASCO	166	17,556	10,033	**27,756**
PINELLAS	13,479	9,522	10,771	**33,772**
POLK	1,007	33,157	1,416	**35,580**
PUTNAM	0	1,196	3,495	**4,691**
SAINT JOHNS	7,981	7,198	2,456	**17,635**
SAINT LUCIE	3,584	4,388	9,413	**17,385**
SANTA ROSA	704	5,471	6,832	**13,007**
SARASOTA	1,278	9,296	3,319	**13,893**
SEMINOLE	1,087	1,206	29,134	**31,426**
SUMTER	367	200	344	**911**
SUWANNEE	0	3,484	50	**3,534**
TAYLOR	0	2,424	4,144	**6,568**
UNION	0	345	1,371	**1,716**
VOLUSIA	2,614	8,879	12,677	**24,170**
WAKULLA	0	800	0	**800**
WALTON	1,262	5,269	2,766	**9,297**
WASHINGTON	0	1,171	3,609	**4,780**
Note: For simplicity, unless otherwise noted, all general population hurricane Shelter capacities are calculated based on 20 sq.ft. per evacuee, and Persons with Special Needs (SpNS) Hurricane Shelters on 60 sq.ft. per client.				
Total- General Population	85,529	475,509	416,118	**977,157**
Total SpNS	2,362	17,522	14,702	**34,586**
Grand Total	87,891	493,031	430,820	**1,011,742**

Through research Florida has been able to increase its understanding of shelter demand. By more accurately identifying demand the State is able to plan for anticipated need thus reducing its hurricane shelter deficit. Through the technologies applied to this effort, such as LiDAR, and improved SLOSH computer models, the Division is able to more precisely determine which areas are vulnerable to hurricane storm surge. These improved techniques are the results of the 2010 SRES. In the past, studies were conducted only regionally and sporadically when funding was available. Methodologies varied to meet the needs at the time. As of 2010, all RPC regions are held to a statewide methodology statutorily mandated in 163.3178(2)(d)F.S.

Historically, 25 percent or more of the estimated evacuating population were projected to seek safety in public shelters. Many of the post-1998 Hurricane Evacuation Studies, including the 2010 Behavioral Data from the SRES, are now indicating that fewer than 15 percent of the vulnerable population will seek public shelter for a Category 5 hurricane. The 2004 hurricane season provides an example of relatively low public shelter use. Though none of the storms made landfall as a Category 5 hurricane, two storms approached Florida at near Category 5 strength before making landfall as a Category 3 and 4; Hurricane Ivan and Hurricane Charley respectively. During Hurricane Ivan, an estimated 544,900 persons were under evacuation orders and only 33,472 evacuees were housed in public shelters (6 percent). During Hurricane Charley, although it rapidly intensified only a few hours before landfall, there were an estimated 2.7 million persons under evacuation orders and only 102,094 evacuees were housed in public shelters (3.75 percent). While these examples alone are not evidence of a decrease in demand, they do show that under many circumstances public shelter demand is lower.

Since publication of the 2000 Plan, the statewide average estimated demand has fallen from about 24 percent to about eight (8) percent. The practical effect is an apparent statewide reduction in hurricane shelter space demand since 2000, which has resulted in a general decrease in the need to invest public funds to create the additional “bricks-and-mortar” shelter spaces.

The Division has also developed a public information program to compliment the other hurricane evacuation shelter deficit reduction efforts. The Division educates residents on the hazards they face and how to best deal with them. A key issue is whether or not to evacuate and, if so, to where. Education on the hazards and how they affect a community lead to residents making better-informed decisions in a crisis. That effort is being supported by public service announcements, hurricane expositions, training of local responders and volunteers, and through emergency messages during times of crisis. This is expected to be a long-term process that will help to reduce the need for public hurricane evacuation shelter space.

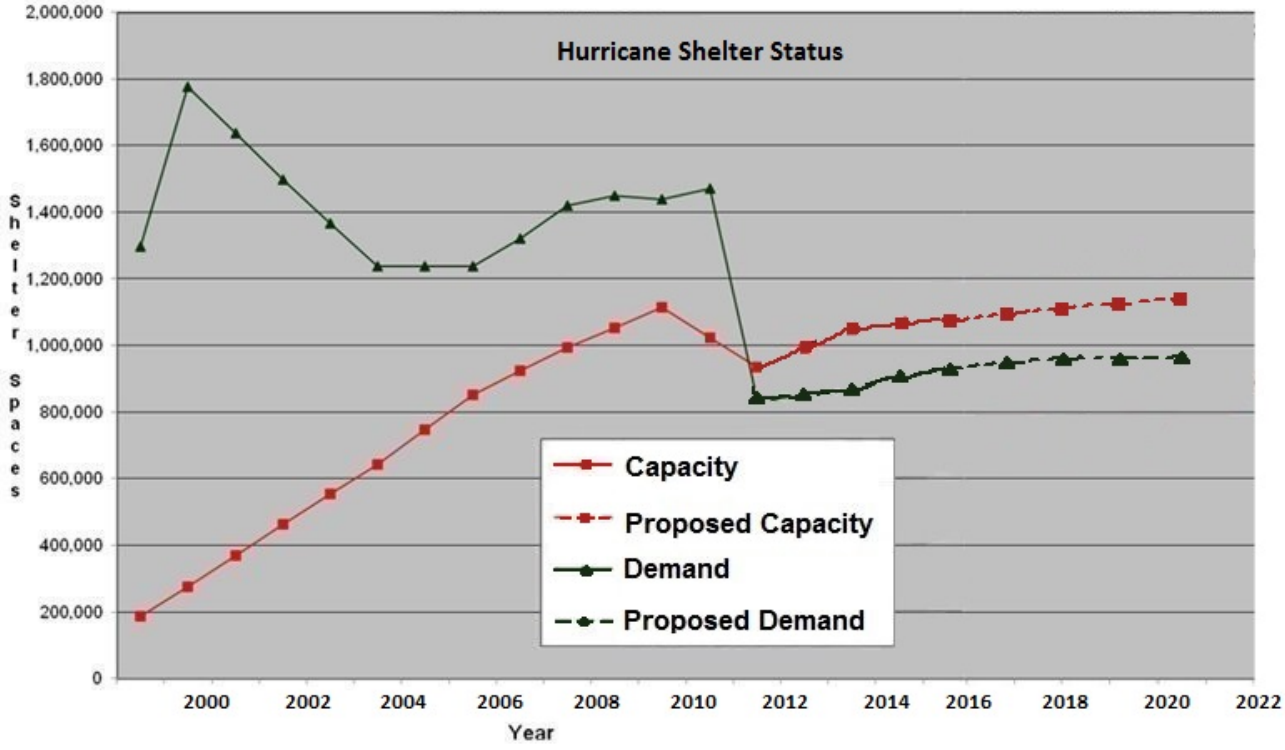
As seen in Table 6-1, since 1999 the Division’s hurricane evacuation shelter survey and retrofit program has identified, created or otherwise documented 518,711 hurricane evacuation shelter spaces that meet ARC 4496 guidelines. Public school new construction programs have created an additional 493,031 hurricane evacuation shelter spaces. Therefore, by the 2016 hurricane season, Florida will have a total of 1,011,742 shelter spaces that meet ARC 4496 guidelines.

The demand for hurricane evacuation shelter space has also been significantly reduced over the past fourteen years due to improvements in public information, storm hazard models and more accurate census data. Since 2000, Florida's deficit of hurricane evacuation shelter space has been eliminated on a statewide aggregate basis. However, individual regions remain in a hurricane evacuation shelter space deficit.

With publication of this Plan, Florida now has 36 counties with a sufficient capacity of General Population (GP) hurricane evacuation shelter space. The counties with sufficient GP space include: Baker, Bay, Bradford, Brevard, Broward, Duval, Escambia, Flagler, Gadsden, Gilchrist, Hamilton, Hardee, Hendry, Hillsborough, Holmes, Indian River, Jackson, Jefferson, Lake, Leon, Liberty, Madison, Manatee, Martin, Okaloosa, Orange, Osceola, Palm Beach, Saint Johns, Saint Lucie, Santa Rosa, Seminole, Taylor, Union, Walton, and Washington.

There are fewer counties, 21, with a sufficient capacity of SpNS hurricane evacuation shelter space. The counties with a sufficient capacity of SpNS space include: Bradford, Brevard, Broward, Citrus, Desoto, Gilchrist, Glades, Hardee, Hernando, Indian River, Lafayette, Leon, Levy, Manatee, Martin, Miami-Dade, Osceola, Pasco, Putnam, Santa Rosa and Volusia.

Figure 6-1. Projected Hurricane Shelter Deficit Reduction



7.0 CONCLUSIONS

As a result of Hurricane Andrew and the Lewis Commission Report, the State of Florida recognized the necessity of providing safe hurricane evacuation shelter space for its residents during disasters. In support of this goal, the Division, every two years, submits to the Governor and Cabinet, the *Statewide Emergency Shelter Plan.* The Plan identifies the general location and square footage of existing GP and SpNS by RPC region, and needed GP and SpNS space during the next five (5) years. The Plan also includes information on the availability of shelters that accept pets. The Department of Health assisted the Division in determining the estimated need for SpNS hurricane evacuation shelter space.

The 2016 Plan shows that Florida on a statewide aggregate basis has eliminated the deficit GP public hurricane evacuation shelter space. However, a deficit of SpNS spaces continues to exist. Since 1995, more than 1,011,742 hurricane evacuation shelter spaces have been identified, created through retrofitting of existing buildings, or through new construction (e.g., EHPA). As the Division continues to map Florida's coastlines through LiDAR mapping and other improved topographic survey techniques, it is estimated that the public hurricane evacuation shelter demand will continue to be reduced. Since 2004, Florida's statewide aggregate public hurricane evacuation shelter space demand has been reduced to 960,607. In contrast, there was an estimated hurricane evacuation shelter demand of 1,776,606 shelter spaces in 2000.

However, there are still two (2) regions of the state that currently have a deficit of general population hurricane evacuation shelter space. Nine (9) regions currently have deficits of SpNS space. Regions that currently have an adequate number of hurricane evacuation shelter spaces will need to maintain the inventory. Over time, current hurricane evacuation shelter buildings may (or will) be decommissioned due to age and other issues; such as, remodeling or reuse that's incompatible with mass care shelter operations, removal or deterioration of window protection products; etc. There may also be changes in storm hazard maps (e.g., SLOSH, national flood insurance maps, etc.) that could affect their recognition as meeting hurricane safety criteria. Thus, even though the aggregate statewide deficit of GP space is eliminated in the 2016 Plan, a "maintenance level" of shelter space production will be necessary to avoid falling back into a deficit situation.

ALACHUA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Alachua County EOC	1 Main Building	1100 SE 27th Street	Gainsville	32641		G	175	3,494		0		Built 2000. LRDM Surveyed 2015.Use for Staff / First Responders Only
Alachua County Fairgrounds		3100 NE 39th Avenue	Gainesville	32609	R	P	0	0		0		Building is undergoing renovation for a new roof and the addition of Air Conditioning. Retrofit project would be to install window protection. The building has not been suveryed at this point.
Archer Community School	6 Cafeteria	14533 SW 170 Street	Archer	32618	R	G	211	4,221		0	S-1621X	Surveyed 2014
Chiles (Lawton M) Elementary	1 Admin / Classroom	2525 School House Road	Gainesville	32608	R	G	666	13,320			S 12/13 2624	Built 1999. Retrofit 2015
Chiles (Lawton M) Elementary	2 Classroom	2525 School House Road	Gainesville	32608	R	G	589	11,780			S 12/13 2624	Built 1999. Retrofit 2015
Chiles (Lawton M) Elementary	3 Cafeteria	2525 School House Road	Gainesville	32608	R	G	266	5,320			S 12/13 2624	Built 1999. Retrofit 2015
Eastside HS	15 Classroom	1201 SE 45th Terrace	Gainesville	32641	R	G	673	16,834		501	S-1508-2005	8-31-06 retrofitted Surveyed 2014
Easton-Newberry Sports Complex	1	24880 NW 16th Ave	Newberry	32669	R	G	593	11,860		0	S-1617-2010	2010 retrofitted
Gainesville Senior Center	1	5701 NW 34th Street	Gainesville	32653	R	G	233	7,330	233	233	S 12/13 2624	Main dining area built as shelter; retrofitting additional classrooms will add 366 spaces. Retrofit scheduled to be complete in 2016.
High Springs Community EMS	5 Classroom	1015 N. Main Street	High Springs	32643	R	G	296	5,920	296	296	S-1508-2005	Surveyed 2014
Josheph Williams ES	7 Cafeteria	1245 SE 7ty Avenue	Gainesville	32641	R	G	210	4,196		0	S-1621X	Surveyed 2014
Kanapaha MS	3 Classroom	5005 SW 75th Street	Gainesville	32608	R	G	467	9,332		407	S-1508-2005	8-31-06 retrofitted. Surveyed 2014
Kanapaha MS	3 Halls	5005 SW 75th Street	Gainesville	32608		G	0	0	115	0		
Kanapaha MS	4 Classroom	5005 SW 75th Street	Gainesville	32608	R	G	450	8,995		405	S-1508-2005	8-31-06 retrofitted. Surveyed 2014
Kanapaha MS	4 Halls	5005 SW 75th Street	Gainesville	32608		G	0	0	115	0		
Kanapaha MS	5 Gymnasium	5005 SW 75th Street	Gainesville	32608		G	0	0	0	0		Surveyed 2014
Kanapaha MS	6 Cafeteria	5005 SW 75th Street	Gainesville	32608		G	0	0	158	0		Surveyed 2014
Kanapaha MS	7 Classroom	5005 SW 75th Street	Gainesville	32608	R	G	0	0	115	0		not done in S-1508-2005, Surveyed 2014
Kanapaha MS	9 Classroom	5005 SW 75th Street	Gainesville	32608	R	G	0	0	115	0		not done in S-1508-2005, Surveyed 2014
Meadowbrook ES	1 Media / ClsRm	11525 NW 39th Avenue	Gainesville	32606	N	G	900	18,000		405	L	Completed Sept. 2012 EHPA
Oakview MS	3 Classroom	701 N Main Street	Newberry	32669	R	G	447	8,935		405	S-1508-2005	8-31-06 retrofitted. Surveyed 2014
Oakview MS	4 Classroom	701 N Main Street	Newberry	32669	R	G	457	9,148		405	S-1508-2005	8-31-06 retrofitted. Surveyed 2014
Chester Shell ES	2 Cafeteria	21633 SE 65h Avenue	Hawthorne	32640	R	G	184	3,681	214	214	S	Surveyed 2014
Santa Fe HS	34 Classroom	16213 NW US HWY 441	Alachua	32615	N	G	546	10,919	527	527	L	Only East part of building is EHPA, Surveyed 2014
University of Florida	110 Steinbrenner Hall (1st Floor)	3150 Hull Road	Gainesville	32611	R	G	163	3,261	0	0	S	Built 2007. Surveyed 12 / 2014
University of Florida	316 Southwest Rec Center	3150 Hull Road	Gainesville	32611	R	G	1,837	36,737	0	0	S	Built 1997 & 2010 additions -2001 updates. Surveyed 2014
University of Florida	484 Straughn IFAS Extension (1st Floor)	3150 Hull Road	Gainesville	32611	R	G	118	2,360	0	0	S	Built 2011. Surveyed 12 / 2014
University of Florida	686 Reitz Union	686 Museum Road	Gainesville	323611	R	G	699	13,971	0	0	S	Built 1995. LRDM Survey 2014.
Waldo Community School	6 Classroom	150 NW Line Avenue	Waldo	32694	R	G	362	5,567		0	S-1621X	Surveyed 2014
William S Talbot ES	3 Cafeteria	5701 NW 3rd Str	Gainesville	32608	R	G	172	3,789	0	172	S-1508-2005	8-31-06 retrofitted
						TOTALS FOR ALACHUA COUNTY	**10,712**	**218,970**	**1,888**	**3,970**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**10,712**	**11,864**	**-1,152**	**218,970**			**-18,310**	**DEFICIT**			

ALACHUA

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Alachua ES	6 Classroom	13800 NW 152 Place	Alachua	32615	N	P	115	6,920	0	0		Built 9-2008. Surveyed 2014
FW Buchholz Senoir HS	8 Clsrm (1st flr)	5510 NW 27th Avenue	Gainesville	32606	R	P	231	15,569	0	231	S-1508-2005	8/31/06-retrofitted. Surveyed 2014. Pending 600 KW generator (DOH)
Gainesville Senior Center	Main Building	5701 NW 34th St.	Gainesville	32653	R	P	121	2,808			S	Built 2011. 2015=14-SR-94-03-11-02-492
Marjorie K Rawlings ES	4 / Café	3500 NE 15th Street	Gainesville	32609	N	P	69	4,145	0	120		Emergency Power/No HVAC (DOH)
Westwood MS	18 Cafeteria	3215 NW 15th Avenue	Gainesville	32605	N	P	85	3,403	0	120		Surveyed 2014
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**621**	**1,200**	**-579**	**32,845**			**-39,155**	**DEFICIT**				

BAKER

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Baker MS	19 Vocational Classroom	211 E. Jonathan Street	Macclenny	32063	R	G	163	3,260		0	1621X	
Baker SHS	15	1 Wildcat Drive	Glen Saint Mary	32040	R	G	285	5,712		0	1621X	
New Macclenny Elementary	B-cafeteria	1 Wildkitten Drive	Macclenny	32063	N	G	306	6,285		306	L	EHPA
New Macclenny ES	A	1 Wildkitten Drive	Macclenny	32063	R	G	296	4,937		296	HB7121	
New Macclenny ES	C	1 Wildkitten Drive	Macclenny	32063	R	G	258	6,467		239	HB7121	
New Macclenny ES	D	1 Wildkitten Drive	Macclenny	32063	R	G	309	6,187		309	HB7121	
New Macclenny ES	E	1 Wildkitten Drive	Macclenny	32063	R	G	309	6,217		309	HB7121	
New Macclenny ES	F	1 Wildkitten Drive	Macclenny	32063	R	G	245	6,127		216	HB7121	
Phoenix Center	Center	523 W. Minnesota Ave	Macclenny	32063	R	G	207	4,140		0	1621X	
Westside ES	7	One Panther Circle	Glen Saint Mary	32040	R	G	285	5,706		0	1621X	
						Totals for Baker County	**2,663**	**55,038**	**0**	**1,675**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**2,663**	**2,618**	**45**	**55,038**			**2,678**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage		Comments
Ed Frasier Memorial Hospital		159 North 3rd Street	Macclenny	32063-2103		P						Built 1997. LRDM by PBSJ 2005

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**79**	**-79**	**0**			**-4,740**	**DEFICIT**			

2016 Statewide Emergency Shelter Plan

BAY

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bay County Sheriff Office	1	3421 Highway 77	Panama City	32404	R	G, A	494	9,880		494	S	FY 11/12 -1515A Completed 2015
Bay High School	7 Dining	1204 Harrison Avenue	Panama City	32405	R	G, A	907	13,609		967		shuttered?/door braced?
Bozeman Learning Center	1 Admin / Clinic	13410 SR 77	Southport	32409	R	G, A	267	5,340		267		
Bozeman Learning Center	2 Classroom	13410 SR 77	Southport	32409	R	G, A	436	6,541		587	HMGP	
Bozeman Learning Center	3 Classroom	13410 SR 77	Southport	32409	R	G, A	526	7,894		641		
Bozeman Learning Center	4 Classroom	13410 SR 77	Southport	32409	R	G, A	580	9,401		580	HMGP	
Bozeman Learning Center	5 Classroom	13410 SR 77	Southport	32409	R	G, A	686	11,518		686	HMGP	
Bozeman Learning Center	6 Music	13410 SR 77	Southport	32409	R	G, A	319	4,791		604	HMGP	
Bozeman Learning Center	7 Classroom	13410 SR 77	Southport	32409	R	G, A	510	7,647		826	L	waived by county
Bozeman Learning Center K-8	8 Gym	13410 Highway 77	Southport	32409	N	P, A						
Bozeman Learning Center K-8	9 Cafeteria	13410 Highway 77	Southport	32409	N	P, A				0		
Callaway Elementary School		7115 State Road 22	Callaway	32404	R	G, A						
Cedar Grove Admin / EOC	1	2728 E. 14th Street	Cedar Grove	32401	R	G, A	0	0		0	F	HMGP
Cedar Grove ES	12 Classroom	2826 East 15th Street	Panama City	32405	R	G, A	306	4,865		306	HMGP	
Cedar Grove ES	13 Music	2826 East 15th Street	Panama City	32405	R	G, A	142	2,137		206	HMGP	
Cedar Grove PD	2	2728 E. 14th Street	Cedar Grove	32401	R	G, A	0	0			F	HMGP
Emerald Bay Academy		1515 June Ave	Panama City	32401	N	G, A	0	0			HMGP	
Everitt MS	9 (locker rm additions)	608 School Avenue	Panama City	32401	R	G, A	0	0		0	HMGP	Removed per County EM. Protection compromised
Highland Park Elementary School		2507 E Baldwin Road	Panama City	32405	R	G, A	0	0			HMGP	
Fairgrounds	25		Panama City		R	G, A	1,671	33,420		0	HB7121	
Haney Votech	24		Panama City		R	G, A	300	6,000		0	HB7121	
Jinks JrHS	6	600 West 11th Street	Panama City	32401	R	G, A	125	2,769		125	HMGP	
Jinks JrHS	10	600 West 11th Street	Panama City	32401	R	G, A	76	1,836		76	HMGP	
Lynn Haven Elementary School		301 W 9th Street	Lynn Haven	32444	R	G, A				0	HMGP	
Merriam-Cherry St. ES	11 Multipurpose / Dining	1125 Cherry Street	Panama City	32401	N	G, A	253	5,054		0	L	EHPA-per county-2007
Merritt Brown Elementary School	4 (first floor)	5601 Merritt Brown Road	Panama City	32404	R	G, A	877	17,538		0	HMGP	two-story
Millville Elementary School		203 N East Avenue	Panama City	32401	R	G, A	0	0		0	HMGP	
MK Lewis center	5	1527 Lincoln Avenue	Panama City	32405	R	G, A	55	1,100		55	L	waived by county
Moore Elementary School	10 or 2	1900 Michigan Avenue	Panama City	32405	R	G, A	168	3,357		0	HMGP	
Moore Elementary School	11 or 3	1900 Michigan Avenue	Panama City	32405	R	G, A	483	9,661		0	HMGP	
Moore Elementary School	12 or 4	1900 Michigan Avenue	Panama City	32405	R	G, A	393	7,862		0	HMGP	
Moore Elementary School	13 or 5	1900 Michigan Avenue	Panama City	32405	R	G, A	46	925		0	HMGP	
Mowat MS	11 Classroom	1903 Hwy 390	Panama City	33444	R	G, A	139	2,782		139	HMGP	
New Horizons Learning Center	2	3100 Minnesota Ave	Panama City	32405	N	G, A	222	4,443		0	L	EHPA per list -2009
Northside Elementary School		2001 Northside Drive	Panama City	32401	R	G, A				0	HMGP	
Oakland Terrace ES	9 MultiPurpose	2010 W. 12th Street	Panama City	32401	N	G, A	0	0		0		not- EHPA per list-2009
Oakland Terrace ES	13 Classroom	2010 West 12th Street	Panama City	32401	R	G, A	224	3,365		294	HMGP	
Oakland Terrace ES	14 Classroom	2010 West 12th Street	Panama City	32401	R	G, A	258	4,159		258	HMGP	
Parker ES	2 MultiPurpose	640 S. Hwy. 22A	Panama City	32404	N	G, A	180	3,600		0	L	EHPA per list -2009
Pattersen ES	2 Dining	1025 Redwood Avenue	Panama City	32401	R	G, A	0	0	0	0	F	HB7121
Pattersen ES	16 Classroom	1025 Redwood Avenue	Panama City	32401	R	G, A	265	5,294		0	F	HB7121
Rosenwald JrHS	13 Dining	1310 East 11th Street	Panama City	32401	R	G, A	202	3,493		202		
Rutherford High School	2 (1st flr Hall and Media / Clsrms)	1000 School Avenue	Panama City	32401	R	G, A	237	4,740		237	HMGP	
Rutherford High School	12	1000 School Avenue	Springfield	32401	R	G, A	0	0	209	0	F	HB7121
Rutherford High School	13 Dining	1000 School Avenue	Springfield	32401	R	G, A	552	11,031		0	F	HB7121
Rutherford High School	14	1000 School Avenue	Springfield	32401	R	G, A	0	0	503	0	F	HB7121

BAY

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Rutherford High School	15	1000 School Avenue	Springfield	32401	R	G, A	0	0	378	0	F	HB7121
Rutherford High School		1000 School Avenue	Panama City	32401	R	G, A			375	0		
Springfield Elementary School	14 Classroom	520 School Avenue	Panama City	32401	R	G, A	245	4,072		245	HMGP	
Springfield Elementary School	15 Classroom	520 School Avenue	Panama City	32401	R	G, A	250	3,746	0	255	HMGP	
Suffside Middle School	4 Classroom	300 Nautilus Street	Panama City Beach	32407	R	G, A	898	17,965		0	HMGP	
Surfside Middle School	5 Classroom	300 Nautilus Street	Panama City Beach	32407	R	G, A	231	4,619		0	HMGP	
Roberta T. Smith Elementary School	1 Classroom	5044 Tommy Smith Way	Panama City	32404	R	G, A	235	4,708		0	HMGP	
Roberta T. Smith Elementary School	2 Classroom	5044 Tommy Smith Way	Panama City	32404	R	G, A	400	8,007		0	HMGP	
Roberta T. Smith Elementary School	3 Classroom	5044 Tommy Smith Way	Panama City	32404	R	G, A	426	8,515		0	HMGP	
Roberta T. Smith Elementary School	4 Classroom	5044 Tommy Smith Way	Panama City	32404	R	G, A	438	8,764		0	HMGP	
Waller Elementary School	1	11332 Highway 388	Fountain	32466	R	G, A			438	0	F	HB7121
Waller Elementary School	3 Dining	11332 Hwy 338	Youngstown	32466	R	G, A	82	1,638		0	L	
Waller Elementary School	4 Classroom	11332 Hwy 338	Youngstown	32466	R	G, A	207	4,141		0	L	
Waller Elementary School	5 Clasroom	11332 Highway 388	Fountain	32466	R	G, A	288	5,757		0	F	HB7121
						TOTALS FOR BAY COUNTY	**15,599**	**287,984**	**1,903**	**8,050**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**15,599**	**6,443**	**9,156**	**287,984**			**159,124**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bozeman Learning Center K-7	9 Cafeteria	13410 SR 77	Panama City (Southport)	32409	N	P, A	110	8,277		108	EHPA	600 KW Generator (DOH)
Bozeman Learning Center K-8	8 Gym	13410 SR 77	Panama City (Southport)	32409	N	P, A	191	11,466			HMGP / EHPA	600 KW Generator (DOH)
Tom P. Haney Votech Center	1-Admin / 3-Story (Old 9)	3016 SR 77	Panama City	32405	N	P, A				594	1588-2006	No official SpNS capacity

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**301**	**1,712**	**-1,411**	**19,743**			**-82,977**	**DEFICIT**			

BRADFORD

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bradford MS	6	58 North Orange Street	Starke	32091	R	G	52	1,040		0	1621X	
Bradford MS	7	58 North Orange Street	Srtarke	32091	R	G	218	4,956		0	1621X	
Hampton Elementary School	5	SR 221 and CR 18	Hampton	32044	R	G	124	1,900		0	1621X	
Lawtey Elementary School	6	N Park St and US HWY 301	Lawtey	32058	R	G	173	3,258		173	L, S, HMGP	
Starke Elementary School	2	1000 Weldon St	Starke	32091	R	G	363	5,975		363	L, S, HMGP	
Starke Elementary School	5	1000 Weldon St	Starke	32091	R	G	238	3,937		307	L, S, HMGP	
Starke Elementary School	6	1000 Weldon St	Starke	32091	R	G	313	4,700		352	L, S, HMGP	
TOTALS FOR BRADFORD COUNTY							**1,481**	**25,766**	**0**	**1,195**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,481**	**1,287**	**194**	**25,766**			**26**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage		Comments
South Side Elementary School	10	823 Stanbury St	Starke	32091		P, A	53	3,223		131		Local Usage by Gen Pop Emergency power by generator (not HVAC)
Starke Elementary School	3	1000 West Weldon St	Starke	32091		P	95	5,712		51		
Starke Elementary School	4	1000 West Weldon St	Starke	32091		P	66	3,950				per State Study

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**214**	**167**	**47**	**12,885**			**2,865**	**SURPLUS**			

BREVARD

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Anderson, Hans Christian Elementary School	2 (3,4,5)	3011 S Fiske Blvd	Rockledge	32955	R	G	744	15,803		741	F, S	updated FISH
Apollo Elementary School	2,3,4	3085 Knox McCrea Dr	Titusville	32780	R	G	752	11,940		739	F, S	updated FISH
Astronaut High School	400 wing & 800 wing (1994 areas)	800 War Eagle Blvd	Titusville	32796	R	G	264	6,594		75	S-1118A	updated FISH
Atlantis Elementary	1 thru 6	7300 Briggs Avenue	Port St John	32927	R	G	1,295	26,134		1,252	HMGP	updated FISH
Bayside High School	1	1901 DeGroodt	Palm Bay	32908	R	G	96	1,911		0		updated FISH
Bayside High School	2	1901 DeGroodt	Palm Bay	32908	R	G	128	2,552		0		updated FISH
Bayside High School	3	1901 DeGroodt	Palm Bay	32908	R	G	279	5,584		0		updated FISH
Bayside High School	5	1901 DeGroodt	Palm Bay	32908	R	G	268	5,358		0		updated FISH
Bayside High School	6	1901 DeGroodt	Palm Bay	32908	R	G	1,920	38,393		0		updated FISH
Bayside High School	7	1902 DeGroodt	Palm Bay	32909	R	G	981	19,612		0		updated FISH
Bayside High School	campus	1901 DeGroodt	Palm Bay	32908	N	G	0	0		2,551		updated FISH
Eastern Florida State College - Palm Bay	5	250 Community College Pkwy	Palm Bay	32908	N	G	0	0		0		school does not meet ARC 4496
Eastern Florida State College - Cocoa	3	1519 Clearlake Drive	Cocoa	32922	R	G	812	16,240		669		increased lab spaces @ college decreased capacity
Eastern Florida State College - Cocoa-Allied Health	20	1519 Clearlake Drive	Cocoa	32922	R	G	675	13,500		731	S-1118A	
Eastern Florida State College - Melbourne	1 (OCC)	3865 N Wickham Road	Melbourne	32935	R	G	600	12,000		830	HMGP	increased lab spaces @ college decreased capacity
Eastern Florida State College - Melbourne	10	3865 N Wickham Road	Melbourne	32935	R	G	175	3,500		40	HMGP	increased lab spaces @ college decreased capacity
Eastern Florida State College - Melbourne	5	3865 N Wickham Road	Melbourne	32935	R	G	0	0		0		dropped
Cambridge Elementary School	15	2000 Cambridge Drive	Cocoa	32922	N	G	207	3,471		207	L	per EHPA list
Cambridge Elementary School	16	2000 Cambridge Drive	Cocoa	32922	N	G	206	3,459		206		per EHPA list
Central Middle School	1 thru 6	2600 Wingate Blvd	W Melbourne	32904	R	G	2,139	38,477		796	F, S	
Central Reference Library	1	308 Forrest Ave	Cocoa	32922	R	G	1,088	27,200		750	HMGP	Orig-2000 spaces; includes 600 spaces @ 2nd flr
City of Palm Bay	EOC		Palm Bay	32908	N	G	150	3,000		113	S-1543A-2002	
Discovery Elementary School	1	1275 Glendale Ave NW	Palm Bay	32905	R	G	204	4,073		300	HMGP	Orig- 1500 spaces
Discovery Elementary School	2	1275 Glendale Ave NW	Palm Bay	32905	R	G	188	3,757		1,492	HMGP	bldg 1-6 totalled only; updated FISH
Discovery Elementary School	3	1275 Glendale Ave NW	Palm Bay	32905	R	G	287	5,741		0	HMGP	updated FISH
Discovery Elementary School	4	1275 Glendale Ave NW	Palm Bay	32905	R	G	304	6,087		0	HMGP	updated FISH
Discovery Elementary School	5	1275 Glendale Ave NW	Palm Bay	32905	R	G	377	7,542		0	HMGP	updated FISH
Discovery Elementary School	6	1275 Glendale Ave NW	Palm Bay	32905	R	G	238	4,765		0	HMGP	updated FISH
Discovery Elementary School	10	1275 Glendale Ave NW	Palm Bay	32905	N	G	211	4,218		0	L	EHPA; Updated FISH
Eau Gallie High School	22 Auditorium	1400 Commodore Blvd	Melbourne	32935	R	G	677	13,531		0	F, S	updated FISH
Eau Gallie High School	37 Science	1400 Commodore Blvd	Melbourne	32935	R	G	0	0		447	not retrofitted	updated FISH
Endeavor Elementary School	13	905 Pineda Street	Cocoa	32922	N	G	450	7,232		450	L	per EHPA list
Enterprise Elementary School	1 thru 6	7000 Enterprise Road	Port St. John	32927	R	G	1,370	28,669		1,311	HMGP	
Heritage High School	3 Dining	2353 West Malabar Rd	Palm Bay	32907	N	G	361	7,211		794	total 3&7	per EHPA list
Heritage High School	7 Gymnasium	2353 West Malabar Rd	Palm Bay	32907	N	G	1,038	20,769		0		per EHPA list
Imperial Estates Elementary School	5 thru 8	5525 Kathy Drive	Titusville	32780	R	G	720	14,028		575	F, S	

BREVARD

John F. turner Sr. Elementary	2	3175 Jupiter Blvd SE	Palm Bay	32909	N	G	251	5,027		450	total 2&3	per EHPA list
John F. turner Sr. Elementary	3	3175 Jupiter Blvd SE	Palm Bay	32909	N	G	224	4,483		0		per EHPA list
Jupiter Elementary School	1 thru 6	950 Tupelo Road SW	Palm Bay	32908	R	G	1,258	25,982		1,168	HMGP	
Long Leaf Elementary School	1	4290 N Wickham Road	Melbourne	32935	R	G	1,549	38,727		1,303	F, S	updated FISH
Manatee Elementary School	1	3425 Solerno Blvd	Viera	32940	N	G	1,729	43,237		1,349	L	per ehpa list;updated FISH
Meadowlane Elementary School	1 thru 6	2800 Wingate Blvd	Melbourne	32904	R	G	1,284	24,563		1,264	total 1-6	
Meadowlane Intermediate ES	1 Classroom (1st & 2nd flr)	2700 Wingate Blvd	Melbourne	32904	N	G	2,183	14,080		1,324	L	
Melbourne High School	1 & 8	74 Bulldog Way	Melbourne	32901	R	G	0	0		1,024	F, S	updated FISH Total for 1 & 8 2.74' SLOSH
Melbourne High School	18 Gymnasium	74 Bulldog Blvd	Melbourne	32901	N	G	0	0		0	L	per EHPA list; updated FISH 2.74' SLOSH
Mims Elementary School	13 (new wing)	2582 US 1	Mims	32754	N	G	338	7,227		339	L	EHPA
Palm Bay Elementary	8	1200 Allamanda Rd NE	Palm Bay	32905 -4299	N	G	0	0		0		per EHPA list; updated FISH, 2.8' SLOSH
Palm Bay Senior High	8 Dining	101 Pirate Lane	Melbourne	32901	N	G	227	4,536		0		per EHPA list; updated FISH
Palm Bay Regional Park	1	1951 NW Malabar Rd	Palm Bay	32907	N	G, A	509	10,180		474		Feb 09 completed-per county.
Pinewood Elementary School	4	3654 Lionel Road	Mims	32754	R	G	381	9,518		360	F, S	updated FISH
Port St. John Community Center	Center	6650 Corto Rd	Port St John	32927	R	A	300	4,962		260	HMGP	Orig - 600
Riviera Elementary School	1 thru 6	351 Riviera Drive NE	Palm Bay	32905	R	G	1,106	27,650		981	HMGP	updated FISH
Rockledge High School	1,2,8,9	220 Raider Drive	Rockledge	32955	R	G	504	12,603		463	HMGP	Orig- 500 spaces
Roy Allen ES	6	2601 Fountianhead	Melbourne	32909	N	G	1,235	30,871		1,215	L	per EHPA list; updated FISH
Sherwood Elementray School	1	2541 Post Road	Melbourne	32935	R	P	1,511	37,780		1,288	F, S	updated FISH
South Mainland (Micco)	Gym	3700 Allen Avenue	Micco	32976	N	P	0	0		453	HMGP	Orig- 650
South Mainland (Micco)	Main (1)	3700 Allen Avenue	Micco	32976	R	G	173	3,000		0	HMGP	updated FISH
Southwest Junior High School		451 Eldron Blvd SE	Palm Bay	32909		G	0	0		750		
Space Coast Jr/Sr HS	11 (Music)	6150 Banyan Street	Port St John	32927	R,N	G	308	6,150		300	F, S	EHPA
Space Coast Jr/Sr HS	1st floor (100-400)	6150 Banyan Street	Port St John	32927	R	G	675	12,000		675	F, S	updated FISH
Space Coast Jr/SR HS	2nd floor (500-800)	6150 Banyan Street	Port St John	32927	R	G	600	12,000		600	S-1588-2006	updated FISH
Suntree Elementary School	1 thru 6	900 Pinehurst Avenue	Melbourne	32940	R	G	1,061	26,534		907	HMGP	updated FISH
Titusville High	2 Auditorium	150 Terrier Trail	Titusville	32780	N	G	0	0		0		in cat 3 zone
Viera Regional Park	1	2300 Judge Fran Jamieson Way	Viera	32940	N	G, A	0	0		474		
Viera High School	2	6103 Stadium Parkway	Viera	32940	N	G	1,088	21,752		1,100	tot 2&6	per EHPA list
Viera High School	6	6103 Stadium Parkway	Viera	32940	N	G	627	12,549		0		per EHPA list
Walter Butler Community Center	1	Ferguson Lane	Sharpes	32959	N	G	0	0		474		
Westside Elementary School	1	2175 DeGroodt Rd SW	Palm Bay	32908	R	G	1,526	38,160		1,308	S-1118A	updated FISH
Westside Elementary School	4 (2005)	2175 DeGroodt Rd SW	Palm Bay	32908	R	G	263	5,267		0		updated FISH
						TOTALS FOR BREVARD COUNTY	**40,114**	**821,189**	**0**	**35,372**		

	Shelter Capacity In People	**Shelter Demand In People**	**Surplus/ Deficit In People**	**Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**			
Storm Category 4/5	**40,114**	**31,469**	**8,645**	**821,189**			**191,809**	**SURPLUS**			

BREVARD

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Oak Park ES (Prio 4)	2, 5, 6, 7, 8	3395 Dairy Road	Titusville	32796	R	P	300	11,981		333		Calculated @ 40 SqFt / person
Oak Park ES	2 Classroom	3395 Dairy Road	Titusville	32796	R	P						2011 LRDM
Oak Park ES	5 Classroom	3395 Dairy Road	Titusville	32796	R	P						2011 LRDM
Oak Park ES	6 Music	3395 Dairy Road	Titusville	32796	R	P						2011 LRDM
Oak Park ES	7 Classroom	3395 Dairy Road	Titusville	32796	R	P						2011 LRDM
Oak Park ES	8 Classroom	3395 Dairy Road	Titusville	32796	R	P						2011 LRDM
Quest ES	1	8751 Trafford Drive	Melbourne	32940	N	P	531	42,509		375		EHPA
Ralph Williams ES	Main	1700 Clubhouse Drive	Rockledge	32955	N	P	474	37,918		375		Primary
South Mainland (Micco)	Gym	3700 Allen Avenue	Micco	32976	R	P	400	24,000		400		Generator completed Jan 1, 2008. Primary (DOH)
Sunrise ES	Main	1651 Mara Loma Blvd SE	Palm Bay	32909	N	P	375	21,960		375		EHPA
Max K. Rodes Community Center	1-1st floor	34410 Flanagan Ave, West	Melbourne	32904	N	P	250	15,000		250		EHPA-type construction
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**2,330**	**2,090**	**240**	**139,800**			**14,400**	**SURPLUS**				

BROWARD

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Atlantic Technical Center, Arthur Ashe Jr. Campus	1	1701 NW 23 Avenue	Ft. Lauderdale	33311	N	G	1,200	22,642		941	L	primary; Updated FISH
Beachside Montessori Village	1	2230 Lincoln Street	Hollywood	33020	N	G	1,060	5,981		1,060	L	secondary
Challenger Elementary	1	5700 NW 94 Avenue	Tamarac	33321	N	G, A	1,928	48,207		395	L	primary, responders; updated FISH, Alternate Pet Friendly shelter
Coconut Palm Elementary	1	13601 Monarch Lakes Blvd	Miramar	33027	N	G	1,839	45,982		1,214	L	secondary; updated FISH
Coral Cove Elementary	1	5100 SW 148 Avenue	Miramar	33027	N	G	800	16,000		1,289	L	tertiary ;updated FISH
Coral Glades High School	3	2700 Sports Plex Drive	Coral Springs	33065	N	G	1,800	33,916		1,153	L	Updated FISH
Dolphin Bay Elementary	1	16450 Miramar Parkway	Miramar	33027	N	G	815	16,300		1,268		Updated FISH
Everglades Elementary	1	2900 Bonaventure Blvd	Weston	33331	N	G	1,830	45,745		1,214	L	secondary; updated FISH
Everglades High School	2	17100 SW 48th Ct	Miramar	33027	N	G	1,817	45,434		1,122	L	primary; Updated FISH
Falcon Cove Middle School	2	4251 Bonaventure Blvd	Weston	33332	N	G	1,200	24,508		998	L	primary; Updated FISH
Floranda Elementary School	1	5251 NE 14th Way	Ft. Lauderdale	33334	N&R	G	800	16,000		395	L	tertiary-partial EHPA
Fox Trail Elementary School	1	1250 Nob Hill Road	Davie	33324	N	G	1,911	47,778		1,259	L	primary; Updated FISH
Gator Run Elementary	1	1101 Arvida Parkway	Weston	33327	N	G	1,830	45,741		1,214	L	secondary; updated FISH
Hallandale Elementary	1	900 SW 8th St	Hallandale	33009	N	G	1,310	32,746		309	L	tertiary; updated FISH
Lakeside Elementary School	1	900 NW 136 Avenue	Pembroke Pines	33026	N	G	1,868	46,697		2,091	L	secondary; updated FISH
Liberty Elementary	1	2450 Banks Rd.	Margate	33063	N	G	1,843	46,067		1,254	L	tertiary; updated FISH
Lyons Creek Middle School	3	4333 Sol Press Blvd	Coconut Creek	33073	N	G	2,158	53,951		998	L	primary; Updated FISH
Manatee Bay Elementary	1	19200 SW 36 Street	Weston	33331	N	G	1,837	45,934		1,254	L	tertiary; updated FISH
Millennium MS	3 (PF#2)	5803 NW 94th Avenue	Tamarac	33321	N	G, A	825	16,492	500	325	L	primary, Pet friendly-not EHPA Existing Data 2010 SESP
Monarch High School	4	5050 Wiles Rd	Coconut Creek	33063	N	G	1,452	21,782		950	L	primary;Updated FISH
New Renaissance Middle	3	10701 Miramar Blvd.	Miramar	33025	N	G	1,200	23,623		817	L	Updated FISH
Orange Brook ES	16	715 S. 46th Avenue	Hollywood	33021	N	G	815	16,300		1,294	L	tertiary; updated FISH
Panther Run Elementary School	1	801 NW 172 Avenue	Pembroke Pines	33328	N	G	1,915	47,887		1,259	L	tertiary; updated FISH
Park Lakes Elementary	1	3925 N. State Rd. 7	Lauderdale Lakes	33309	N	G	1,907	47,676		1,259	L	primary; Updated FISH
Park Trails Elementary	1	10700 Trails End	Parkland	33076	N	G	1,940	48,509		395	L	tertiary; updated FISH
Parkside Elementary School	1	10257 NW 29th Street	Coral Springs	33065	N	G	1,214	24,273		1,214	L	secondary; updated FISH 15.6' per SLOSH
Pines MS	11	200 NW Douglas Road	Pembroke Pines	33024	N	G	1,210	24,200		388	L	tertiary; updated FISH
Plantation Elementary	1	651 NW 42nd Avenue	Plantation	33317	N	G	1,907	47,676		395	L	primary; Updated FISH
Pompano Beach High School	10	700 NE 13th Avenue	Pompano Beach	33060	N	G	1,800	36,000		268	L	primary; Exisitng 2010 SESP Data
Rock Island Elementary	1	2350 NW 19th Street	Ft. Lauderdale	33311	N	G	800	16,000		396		primary; Updated FISH
Silver Lakes Elementary School	1	2300 SW 173 Avenue	Miramar	33027	N	G	1,925	48,118		395	L	tertiary; updated FISH
Silver Palms Elementary School	1	1209 NW 155th Avenue	Pembroke Pines	33029	N	G	1,863	46,566		2,091	L	secondary; updated FISH
Silver Shores Elementary	1	1701 SW 160 Avenue	Miramar	33027	N	G	1,836	45,892		1,254		tertiary; updated FISH
Silver Trail Middle School	1	18300 Sheridan Street	Pembroke Pines	33331	N	G	1,200	25,014		925	L	primary; Updated FISH
Sunset Lakes Elementary	1	18400 SW 25 Street	Miramar	33027	N	G	1,843	46,067		1,254		tertiary; updated FISH
Tradewinds Elementary	1	5400 Johnson Road	Coconut Creek	33073	N	G	1,869	46,730		2,091	L	secondary; updated FISH
Watkins Elementary School	1	3520 SW 52nd Avenue	Pembroke Park	33023	N	G	1,911	47,778		395	L	primary; Updated FISH
West Broward High School	3	500 NW 209th Avenue	Pembroke Pines	33029	N	G	1,677	25,155		714	L	primary; Updated FISH
						TOTALS FOR BROWARD COUNTY	**58,955**	**1,341,367**	**500**	**37,507**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**58,955**	**28,299**	**30,656**	**1,341,367**			**775,387**	**SURPLUS**			

2016 Statewide Emergency Shelter Plan

BROWARD

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Indian Ridge MS	2 or 3471 (471)	1355 South Nob Hill Road	Davie	33324	N	P	310	24,827		250		EHPA. * Indian Ridge MS Emergency Powered HVAC-Not
McNichol MS	3 (423)	1602 S. 27th Ave.	Hollywood	33020	N	P	299	23,896		250		EHPA
New River MS	3-café-gym-classrms	3100 Riverland Rd.	Ft. Lauderdale	33312	N	P	293	23,456		250		EHPA
Sheridan Technical High School (Sunset School)	1 (533)	3775 SW 16th St.	Ft. Lauderdale	33312	N	P	353	28,232		55		EHPA
WestGlades MS	3	11000 Holmberg Rd.	Parkland	33026	N	P	295	23,623		250		*West Glades MS Emergency Powered HVAC- Has 5 Portable A/C Units for Cafetorium areas of EHPA
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**1,550**	**1,277**	**273**	**93,000**			**16,380**	**SURPLUS**				

CALHOUN

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Altha Public School	21 Classroom	25793 N Main Street	Altha	32421		G	0	0				
Carr Elementray / Middle School		Highway 73 North	Altha	32430								
Blountstown Elementray School		Fuller Warren Drive	Blountstown	32424								
Blountstown Middle School (NEW)		611 Mathaw Drive	Blountstown	32424								
Blountstown High School	2 Gymnasium	18597 NE SR 69	Blountstown	32424			0	0			S	FY 12/13 2624 15-SR-94-02-17-01-142. To be completed 2016.
Blountstown High School	4 Dining	18597 NE SR 69	Blountstown	32424	N	G	172	3,443				2011 EHPA
Blountstown High School	5 Classroom	18597 NE SR 69	Blountstown	32424	N	G	0	0			S	FY 12/13 2624 15-SR-94-02-17-01-142. To be completed 2016.
Blountstown High School	7 Classroom	18597 NE SR 69	Blountstown	32424	N	G	0	0			S	FY 12/13 2624 15-SR-94-02-17-01-142. To be completed 2016.
Blountstown High School	8 Classroom	18597 NE SR 69	Blountstown	32424	N	G	0	0			S	FY 12/13 2624 15-SR-94-02-17-01-142. To be completed 2016.
Mossy Pond Community Center	whole Bldg	22216 NW Lake McKenzie Blvd	Altha	32421	N	G	90	1,796				2013 LRDM Survey
							0	0				
TOTALS FOR CALHOUN COUNTY							**262**	**5,239**		**0**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**262**	**1,019**	**-757**	**5,239**			**-15,141**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage		Comments
Uses Regional Shelter												

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**91**	**-91**	**0**			**-5,460**	**DEFICIT**			

CHARLOTTE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Kingsway ES	1st floor	23300 Quasar Blvd	Port Charlotte	33980	R	G			0	2,000	S-1467-2004	EXITING storm 23' Slosh / per Co EM
Liberty ES	café & hall	370 Atwater Street	Port Charlotte	33952	R	G			0	500	L	EXITING storm only 15.1' SLOSH
Port Charlotte MS	café & hallways	23000 Midway Blvd NE	Port Charlotte	39952	R	G, A			0	1,000	L	EXITING storm only 15.7' SLOSH
TOTALS FOR CHARLOTTE COUNTY							**0**	**0**	**0**	**1,500**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**12,089**	**-12,089**	**0**			**-241,780**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage		Comments
First Christian Church		20212 Peachland Blvd	Port Charlotte	33954	R	P	0	0				EXITING storm only 15.9' SLOSH

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**1,277**	**-1,277**	**0**			**-76,620**	**DEFICIT**			

CITRUS

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Central Florida Community College		3800 S. Lecanto Hwy.	Lecanto	34461		G	0	0				
Central Ridge ES	1&Café	185 W. Citrus Springs blvd	Citrus Springs	34443		G	0	0	1,146	1,146		
Citrus High School	16	600 West Highland Blvd	Inverness	34452	R	G	300	6,874		300	2002 HMGP 1306-375	updated FISH Data
Citrus High School	17	600 West Highland Blvd	Inverness	34452	R	G	288	5,319		288	2002 HMGP 1306-375	updated FISH Data
Citrus High School	21 / café	600 West Highland Blvd	Inverness	34452	N	P	0	0			L	
Citrus Springs Elementary School	1 and 2	3570 West Century Blvd	Citrus Springs	34443		G	0	0	2,042	2,042		34,640 sqft per FISH
Citrus Springs MS	1	150 W Citrus Springs Blvd	Citrus Springs	34443	R	G	60	1,145		1,312	HMGP	updated FISH Data
Citrus Springs MS	2	150 W Citrus Springs Blvd	Citrus Springs	34443	R	G	344	6,542			HMGP	
Citrus Springs MS	3	150 W Citrus Springs Blvd	Citrus Springs	34443	R	G	312	5,932			HMGP	updated FISH Data
Citrus Springs MS	4	150 W Citrus Springs Blvd	Citrus Springs	34443	R	G	312	5,932			HMGP	updated FISH Data
Citrus Springs MS	8	150 W Citrus Springs Blvd	Citrus Springs	34443	R	G	313	5,952			HMGP	updated FISH Data
Crest School	1 and 2	2600 S. Panther Pride Drive	Lecanto	34461		G	0	0	1,222	1,271		18,323 sqft per FISH
First Assembly Church		4201 South Pleasant Grove Rd	Inverness	N/A		G	0	0	0			
First Baptist Church		8545 E Magnolia	Floral City	N/A		G	0	0	0			
First Baptist Church of Inverness		123 S Seminole Avenue	Inverness	N/A		G	0	0	0			
First Christian Church		1005 Hillside Court	Inverness	N/A		G	0	0	0			
First Lutheran Church		1900 W Highway 44	Inverness	N/A		G	0	0	0			
First Presbyterian Church		206 Washington Avenue	Inverness	N/A			0	0	0			9.1' SLOSH
Floral City Community Center		8370 E. Orange Avenue	Floral City	N/A		G	0	0	0			
Floral City Elementary School	2 Cafeteria	8457 E Marvin Street	Floral City	N/A		G	0	0	543			
Forest Ridge Elementary School	1 Main	2927 North Forest Ridge	Hernando	34442	R	G	1,718	42,941		1,468	3-1923-2002	updated FISH Data
Hernando Elementary School	2 Classrm	2975 E. Trailblazer Lane	Hernando	34442		G	0	0	600	1,470		
Highlands Emergency Center		4325 S Little Al Point	Inverness	N/A		G	0	0	0			
Hope Evangelical Lutheran Church		9425 N Citrus Springs Blvd	Citrus Springs	N/A		G	0	0	0			
Inverness Middle School		1950 North US Highway 41	Inverness	34450		G	0	0	2,157	988		
Inverness Primary School		206 South Lime Avenue	Inverness	34452		G	0	0	1,299	1,280		
Lecanto High School		3810 W Education Path	Lecanto	34461		G	0	0	3,400	3,710		
Lecanto Middle School		3800 W Education Path	Lecanto	N/A		G	0	0	0			
Lecanto Primary School		3790 W Education Path	Lecanto	34452		G, A	0	0	1,869	1,280		
Main Street Baptist Church		960 S Highway 41	Inverness	N/A		G	0	0	0			
Our Lady of Fatima		550 S Highway 41	Inverness	N/A		G	0	0	0			
Pleasant Grove Elementary		630 Pleasant Grove Road	Inverness	34452		G	0	0	600	525		
Riverside Christian Church		7771 N Carl G. Rose Hwy	Hernando	N/A		G	0	0	0			
Rock Crusher Elementary	2 Café	814 S Rock Crusher Road	Homosassa	34448		G	0	0	1,500	457		in CAT 3/4 zone
St. Elizabeth Anne Seton Hall		1180 Country Club B	Dunnellon	N/A		G	0	0	0			
St. Margaret Episcipal Church		114 N Osceola Avenue	Inverness	N/A		G	0	0	0			
V.F.W. Leroy Rokks		1930 S Highway 200	Hernando	N/A		G	0	0	0			
Withlacoochee Vocational Technical Schoo		1201 W Main Hwy 44 West	Inverness	34450		G	0	0	2,075	516		
							0	0				
						TOTALS FOR CITRUS COUNTY	**3,647**	**80,637**	**18,453**	**18,053**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**3,647**	**13,314**	**-9,667**	**80,637**			**-185,643**	**DEFICIT**			

CITRUS

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Citrus High School	21 Café	600 West Highland Blvd	Inverness	34452	N	P	129	7,736	0	157	L	EHPA. updated FISH Data
Renaissance Center School	1 Main (Admin / Multipurpose / Dining / Classroom)	3630 W. Educational Path	Lecanto	34461	N	P	79	4,752		91		Dining area designed as EHPA (per 2013 LRDM Survey)
Lecanto MS		3800 W Education Path	Lecanto	34461	N	P	0	0	100	100		
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**208**	**60**	**148**	**12,488**			**8,888**	**SURPLUS**				

CLAY

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Argyle Elementary School	2-Cafeteria	2625 Spencer Plantation Blvd	Orange Park	32073	N	G	225	4,500		225	L-EHPA	ARC 4496
Clay High School	8-Cafeteria / Aud	2025 SR 16 West	Green Cove Springs	32043		G, A	0	0	932	932		
Clay Hill Elementary School	5 Classroom	6345 CR 218	Jacksonville	32234	R	G	263	5,260		263	F-HMGP	ARC 4496
Coppergate Elementary	1 Cafeteria	2250 CR 209 North	Middleburg	32068	N	G	311	6,220		311	L EHPA	ARC 4496
Fleming Island High	2 Dining / Auditorium	2233 Village Square Parkway	Orange Park	32003	R	G	497	9,939		497	S-HMGP	2014 FY11/12 1515A
Green Cove Springs Junior HS	8-Cafeteria	1220 Bonaventure Avenue	Gr Cove Springs	32043	R	G	443	8,860		443	1588-2006	ASCE7-93
Keystone Heights HS	5-Cafeteria	900 SW Orchid Avenue	Keystone Heights	32656		G	0	0	584	584		Holding Location
Keystone Heights HS	7 Band	900 SW Orchid Avenue	Keystone Heights	32656	R	G	184	3,683		184	1588-2006	ARC 4496
Keystone Heights HS	9-Gym	900 SW Orchid Avenue	Keystone Heights	32656	R	G, A	859	17,180		859	1588-2006	ARC 4496
Lake Asbury Elementary School	5 Classroom	2902 Sandridge Road	Gr Cove Springs	32043	R	G	265	5,300		265	S-1490-2009	ARC 4496
Lake Asbury Elementary School	6 Classroom	2901 Sandridge Road	Gr Cove Springs	32043	R	G	265	5,300		265	F-HMGP	ARC 4496
Lake Asbury Elementary School	7 Classroom	2901 Sandridge Road	Gr Cove Springs	32043	R	G	265	5,300		265	F-HMGP	ARC 4496
Lake Asbury Junior HS	1 Dining	2851 Sandridge Rd	Gr Cove Springs	32043	N	G	298	5,960		298	L EHPA	ARC 4496
Lakeside Elementary School	6 Classroom	2752 Moody Road	Orange Park	32073	R	G	0	0	258	0	F-HMGP	No planned usage.
Lakeside Elementary School	7 Classroom	2752 Moody Road	Orange Park	32073	R	G	0	0	258	0	F-HMGP	No planned usage.
McRae Elementary School	2-Cafeteria	6770 CR 315	Keystone Heights	32656		G	0	0	252	252		
Montclair Elementary School	4 Classroom	2398 Moody Road	Orange Park	32073	R	G	265	5,300		0	S-EMPA	01CP-10-04-2003-103. No planned usage.
Montclair Elementary School	5 Classroom	2398 Moody Road	Orange Park	32073	R	G	265	5,300		0		No planned usage.
Oakleaf High School	5 Cafetorium	4035 Plantation Oaks Blvd	Orange Park	32065	N	G	568	11,360		568	L-EHPA	ARC 4496
Oakleaf Junior High School	1 (Café & Multipurpose)	4085 Plantation Oaks Blvd	Orange Park	32073	N	G	272	5,440		272	L-EHPA	ARC4496
Oakleaf Village ES	1 Cafetorium	410 Oakleaf Village Park	Orange Park	32065	N	G	272	5,440		272	L-EHPA	ARC 4496
Orange Park High School	10-Cafeteria	2300 Kingsley Avenue	Orange Park	32073	R	G, A	746	14,920	746	746	HMGP & L	ARC 4496
Plantation Oaks Elementary School	Cafetorium	4150 Plantation Oaks Blvd	Orange Park	32065	N	G	272	5,440		272	L- EHPA	ARC 4496
Rideout Elementary School	1 Dining / Classroom	3065 Apalachicola Blvd	Middleburg	32068	N	G	395	7,900		395	L-EHPA	ARC 4496
Shadowlawn ES	1 Cafetorium	2945 CR 218	Green Cove Springs	32043	N	G	272	5,440		272	L-EHPA	ARC 4496
Tynes Elementary School	2-Cafeteria	1550 Tynes Boulevard	Middleburg	32068	R	G	244	4,880		244	1588-2006	
W.E. Cherry Elem School	2-Cafetorium	420 Edson Avenue	Orange Park	32073		G	0	0	380	0		Not Shuttered. No planned usage.
J L Wilkinson ES	5	4965 CR 218 West	Middleburg	32068	R	G	0	0	258	0	1588-2006	ANSI A58.1-Shuttered. No planned usage.
						TOTALS FOR CLAY COUNTY	**7,446**	**148,922**	**3,668**	**8,684**		

Year 2012	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**7,446**	**11,281**	**-3,835**	**148,922**			**-76,698**	**DEFICIT**			

CLAY

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
St. Johns River Community College	Thrasher / 2	285 College Drive	Orange Park	32065	R	P	52	3,130		52		400 KW Generator, no HVAC (DOH)
St. Johns River Community College	D	285 College Drive	Orange Park	32065	R	P	51	3,100		51		
St. Johns River Community College	V	285 College Drive	Orange Park	32065	R	P	49	2,940		49		
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**152**	**250**	**-98**	**9,120**			**-5,880**	**DEFICIT**				

COLLIER

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Ave Maria University	Gymnasium	4810 Kelleher Street	Ave Maria	34142	N	G	0	0	1,277	1,277		American Red Cross has signed a Sheltering Agreement with Ave Maria University. A more formal, three party agreement is in process. MOU discussions in process. Not a public shelter (at this time) at 19' SLOSH
Baron Collier High School	Gym / Aud / Stage / Café / Band	5600 Cougar Lane	Naples	34109	R	G	0	0	2,311	2,311	L & F-HMGP	EXITING storm only, 12.3' SLOSH (DEM)
Bethune Education Center	1 Dining / Classroom	614 S. 5th Street	Immokalee	34142			690	13,804	690	690		
Big Cypress Elementary	Café / Stage	3250 Golden Gate Blvd	Naples	34120	R	G	0	0	267	267	S-1543	EXITING storm only, 16.2' SLOSH (DEM)
Calusa Park Elementary	Café / Mult Purp / Stage	4600 Santa Barbara Blvd	Naples	34104	N	G	0	0	332	332	L	EXITING storm only, 11.7' SLOSH (DEM)
Corkscrew Elementary	Caf / Multi Purp / Stage	1065 C.R. 858	Naples	34120			0	0	335	335		
Corkscrew Middle School	Café / Stage / Band / Orch / Gym	1165 C.R. 858	Naples	34120	R	G	0	0	1,031	1,031	L	17' SLOSH (DEM)
Cypress Palm Middle School	Gym / Caf / Stage / Band / Other	4255 18th Ave, NE	Naples	34120	N		0	0	1,675	1,675	L	Cat 5-surge -19.5' (DEM)
Eden Park Elementary	Dining / Mult Purp / Corridors	3650 Westclox Street	Immokalee	34142			487	9,750	487	487		Built 2007
Estates Elmementary	Dining / Mult Purp / Stage	5945 Everglades Blvd. N.	Naples	34120			0	0	332	332		
Emmanuel Lutheran Church		777 Mooring Line Drive	Naples	34102			0	0	252	252		
First Baptist Church of Naples		3000 Orange Blossom Drive	Naples	34109			0	0	937	937		
First United Methodist Church of Immokalee		303 North 9th Street	Immokalee	34142			0	0	115	115		
Golden Gate High School	Gym / Caf / Aud / Stage / Band / Orch	2925 Titan Way	Naples	34116	N	G	0	0	2,164	2,164	L	EXITING storm, 11.3' SLOSH (DEM)
Golden Gate Elementary/Intermediate	Dining / Stage	5055 20th Place SW	Naples	34116	N	G	0	0	278	278	L	EXITING storm only, 12' SLOSH (Low Priority) (DEM)
Golden Gate Middle School	Caf / Gym / Orch	2701 48th Terr SW	Naples	34116	N	G	0	0	740	740	L	EXITING storm only, 14.3' SLOSH (DEM)
Golden Terrace Elementary/Intermediate	Dining / Mult Purp / Stage / Other	2965 44th Terrace SW	Naples	34116	R	G	0	0	263	263	S-1543	EXITING storm only, 14' SLOSH (DEM)
Golden Terrace Elementary/Primary	Caf / Stage	2711 44th Terrace SW	Naples	34116			0	0	199	199		
Gulf Coast High School	Gym / Caf / Aud / Muisc Rooms	7878 Shark Way	Naples	34119	R	G	0	0	1,948	1,948	F-HMGP	EXITING storm only, 13.7' SLOSH (DEM)
Highlands Elementary School	Caf / Multi Purp / Stage	1101 Lake Trafford Road	Immokalee	34142	R	G	500	10,000	304	304		
Immokalee Friendship House	Main	602 West Main Street	Immokalee	34142	N	G	0	0	127	127	S-EMPA	
Immokalee High School	Cafe / Gym / Multi Purp / Gym	701 Immokalee Drive	Immokalee	34142			1,500	30,000	1,018	1,018	L	
Immokalee Middle School	Caf / Stage / Gym	401 9th Street	Immokalee	34142	R	G	857	12,860	581	581	L	
Immokalee Technical Center		508 North 9th Street	Immokalee	34142			0	0	265	265		
Lake Trafford Elementary School	Caf / Multi Purp / Stage	3500 Lake Trafford Road	Immokalee	34142	R	G	500	10,000	270	270		
Laurel Oak Elementary	Caf / Stage / Music	7800 Immokalee Road	Naples	34119			0	0	288	288	S-1523	EXITING storm only, 12.2' SLOSH (DEM)
Lely Elementary School	Caf / Stage / Music	8125 Lely Cultural Blvd	Naples	34113	R	G	0	0	297	297		EXITING storm, 12.6' SLOSH (DEM)
Lely High	Caf / Aud / Gym / Orch / Band / Music	1 Lely High School Blvd	Naples	34113	N	G	0	0	2,142	2,142	L/HMGP	EXITING storm only, 15.6' SLOSH (DEM)
Lorenzo Walker Technical Institue		3702 Estey Ave	Naples	34104			0	0	865	865		
Manatee Elementary	Dining / Stage / Music	1880 Manatee RD	Naples	34114	N	G	0	0	287	287		16.2' SLOSH (DEM)
Marco Presbyterian Church		875 West Elkcam Circle	Naples	34145			0	0	152	152		

COLLIER

Mayflower Congregational		2900 County Barn Road	Naples	34112			0	0	177	177		
Mike Davis Elementary School		3215 Magnolia Pond Drive	Naples	34116	N		0	0	250	250		14.3' SLOSH (DEM)
Moorings Presbyterian Church		791 Harbour Drive	Naples	34103			0	0	285	285		
Naples High School	Gym / Mult Purp / Caf / Aud-Stage	1100 Golden Eagle Circle	Naples	34102	R	G	0	0	1,428	1,428		EXITING storm only, 12' SLOSH (DEM)
Naples United Church of Christ		5200 Crayton Road	Naples	34103					205	205		
North Naples Middle School	Gym / Caf / Music	16165 Learning Lane	Naples	34110	N	G	0	0	1,031	1,031	L	11.2' SLOSH (DEM)
North Collier Regional Park	Exhibit Hall	15000 Livingston Road	Naples	34109	N	G, A	0	0	760	760	L	EXISTING storm only, 9.7' SLOSH (DEM)
Oakridge Middle School	Caf / Multi Purp / Stage / Gym	14975 Collier Blvd	Naples	34119	R	G	0	0	740	740	L	EXITING storm only, 12.7' SLOSH (DEM)
Palmetto Ridge High School (SpNS)	Gym / Caf / Stage / Orch / Other	1655 Victory Lane	Naples	34120	N	G, P	0	0	741	741	L	Primary PSN, 18' SLOSH (DEM)
Parkside Elementary School	Mult Purp / Din / Stage / Music / Other	5322 Texas Ave	Naples	34113	N		0	0	616	616	L	Will replace Lely Elementary 2008-EXITING storm, 15.6' SLOSH
Pelican Marsh ES	Dining / Mult Purp / Stage	9480 Airport Rd North	Naples	34109	R	G	0	0	339	339	L	EXITING storm only-long span roof issues., 13.7' SLOSH
Pine Ridge Middle School	Dining / Stage / Gym	1515 Pine Ridge Road	Naples	34109	R	G	0	0	456	456		13.5' SLOSH (DEM)
Pinecrest Elementary School	Caf / Multi Purp / Stage	313 9th Street South	Immolakee	34142			500	10,000	315	315		
Sable Palm Elementary	Dining / Mult Purp / Stage / Other	4095 18th Ave NE	Naples	34120	N	G	0	0	721	721	L	EXITING storm only, 20.5' SLOSH (DEM)
St. Matthew's House		2001 Airport Road South	Naples	34112					222	222		
Shepard of the Glades		6020 Rattlesnake Hammock Rd	Naples	34113					150	150		
Veterans Community Park		1895 Veterans Park Dr.	Naples	34109			0	0	585	585		
Veterans Memorial Elementary	Dining / Multi Purp / Stage	15960 Veterans Memorial Parkway	Naples	34110	N	G	0	0	332	332		9.2' SLOSH (DEM)
Village Oaks Elementary School	Dining / Mult Purp / Stage / Other	1601 SR 29	Immokalee	34142	R	G	750	12,647	434	434	L & S-1118A	
Vineyards Elementary School	Caf / Stage / Music	6225 Arbor Boulevard	Naples	34119	R	G	0	0	255	255	S-1523	EXITING storm only, 12.5' SLOSH (DEM)
TOTALS FOR COLLIER COUNTY							**5,784**	**109,061**	**32,271**	**32,271**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**5,784**	**29,964**	**-24,180**	**109,061**			**-490,219**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Palmetto Ridge HS (1st Priority) (Listed above)	6	1655 Victory Lane	Naples	34120	N	P	0	0				2story, 18' SLOSH
Palmetto Ridge HS (1st Priority) (Listed above)	7	1655 Victory Lane	Naples	34120	N	P	0	0				1 story, 18' SLOSH
Palmetto Ridge HS (1st Priority) (Listed above)	8	1655 Victory Lane	Naples	34120	N	P	0	0				18' SLOSH

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**2,011**	**-2,011**	**0**			**-120,660**	**DEFICIT**			

COLUMBIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Coumbia City ES	3 Classroom	7438 SW SR 47	Lake City	32024	N	G	0	0				Built 1993. 2005 LRDM Survey indicates no fenestration protection
Columbia High School	2 Auditorium	469 SE Fighting Tiger Drive	Lake City	32025	N	G	514	10,270				online 2006-EHPA
Columbia High School	7 Cafeteria	470 SE Fighting Tiger Drive	Lake City	32025	N	G	331	6,628				online 2007-EHPA
Fort White ES	1	18119 SW SR 47	Lake City	32038	N	G	403	10,073		365	L,S,F	
Fort White High School	11 Classroom (1st floor)	17828 SW SR 47	Lake City	32038	N	G	135	2,702			L	Built 1999. EHPA. 2004 LRDM
Fort White HiighSchool	12 Classroom (1st floor)	17828 SW SR 47	Lake City	32038	N	G	136	2,724			L	Built 1999. EHPA. 2004 LRDM
Fort White High School	17 Classroom	17828 SW SR 47	Lake City	32038	N	G	167	3,344				Built 2004. EHPA. updated FISH data
Lake City Middle School	1 Gymnasium	843 SW Arlington Blvd	Lake City	32025	R	G					S	FY 13/14 2571 (14-SR-IP-03-22-03-484). To be complete 2016.
Lake City Middle School	8 Dining	843 SW Arlington Blvd	Lake City	32025	R	G					S	FY 13/14 2571 (14-SR-IP-03-22-03-484). To be complete 2016.
Lake City Middle School	12 Multi-Purpose	843 SW Arlington Blvd	Lake City	32025	R	G					S	FY 13/14 2571 (14-SR-IP-03-22-03-484). To be complete 2016.
Lake City Middle School	16 Classroom	843 SW Arlington Blvd	Lake City	32025	N	G	201	4,018				Built 2007 EHPA
Pinemount ES	2	325 SW Gabriel PL	Lake City	32024	N	G	221	4,415				per EHPA list
Pinemount ES	3	326 SW Gabriel PL	Lake City	32024	N	G	211	4,230				updated FISH data
Pine Mount ES	4	327 SW Gabriel PL	Lake City	32024	N	G	295	5,902				updated FISH data
Pine Mount ES	6	328 SW Gabriel PL	Lake City	32024	N	G	161	3,221				updated FISH data
Summers Elem School	13 Classroom	1388 SW McFarlane Avenue	Lake City	32055	R	G					S	FY 13/14 2571 (14-SR-IP-03-22-03-484). To be complete 2016.
Summers Elem School	14 Classroom	1388 SW McFarlane Avenue	Lake City	32055	R	G					S	FY 13/14 2571 (14-SR-IP-03-22-03-484). To be complete 2016.
Westside Elementary	2	1956 SW County Rd 252B	Lake City	32024	N	G	237	4,731				updated FISH data
Westside Elementary	3	1956 SW County Rd 252B	Lake City	32024	N	G	243	4,852				updated FISH data
Westside Elementary	4	1956 SW County Rd 252B	Lake City	32024	N	G	176	3,526				updated FISH data
Westside Elementary	5	1956 SW County Rd 252B	Lake City	32024	N	G	183	3,664				updated FISH data
Westside Elementary	6	1956 SW County Rd 252B	Lake City	32024	N	G	243	4,858				updated FISH data
Westside Elementary	9	1956 SW County Rd 252B	Lake City	32024	N	G	248	4,954				updated FISH data
						TOTALS FOR COLUMBIA COUNTY	**4,105**	**84,112**	**0**	**365**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**4,105**	**4,661**	**-556**	**84,112**			**-9,108**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage		Comments
VA Domilery						P	0	0	16	16		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**438**	**-438**	**0**			**-26,280**	**DEFICIT**			

DESOTO

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Childs Christian Life Center Gym	Gym	1006 North Brevard Avenue	Arcadia	34233		G	0	0	0			Doesn't meet ARC 4496
County Administration Building	1	201 East Oak Street	Arcadia	34266	R	G	192	2,886	0	289	L, F	
County Court House		115 East Oak Street	Arcadia	34266			0	0	168			
County Library		125 North Hillsborough Ave	Arcadia	34266	R	G	144	2,160	0	184	L, F	
DeSoto High School	1-C	1710 East Gibson Street	Arcadia	34266			0	0	270	0		
DeSoto High School	1-G	1710 East Gibson Street	Arcadia	34266			0	0	0	0		
DeSoto MS	5-Gym	420 E. Gibson Street	Arcadia	34266	R	G	583	10,776		583	S-1508-2005	updated FISH Data
DeSoto MS	6 Classroom	420 E. Gibson Street	Arcadia	34266	R	G	481	9,985		481	S-1508-2005	completed 12/05
DeSoto MS	7 Classroom	420 E. Gibson Street	Arcadia	34266	R	G	481	9,985		481	HMGP	completed 2/06
DeSoto MS	8 Classroom	420 E. Gibson Street	Arcadia	34266	R	G	481	9,981		481	HMGP	completed 2/06
First Baptist Church		1006 North Brevard Avenue	Arcadia	34266		P	0	0	264	0		Doesn't meet ARC 4496
First Presbyterian Church		209 West Hickory Street	Arcadia	34266		G	0	0	235	0		
Memorial Elementary School	2-B Classroom	851 East Hickory Street	Arcadia	34266		G	0	0	495	0		Built 1983 (FISH)
Memorial Elementary School	3-C Classroom	851 East Hickory Street	Arcadia	34266		G	0	0	495	0		Built 1983 (FISH)
Memorial Elementary School	5-E Classroom	851 East Hickory Street	Arcadia	34266		G	0	0	396	0		Built 1983 (FISH)
Memorial Elementary School	7-G Dining	851 East Hickory Street	Arcadia	34266		G	0	0	213	0		Built 1983 (FISH)
Memorial Elementary School	H	851 E. Hickory Street	Arcadia	34266	R	G	180	3,600		180	HB7121	
Nocatee Elementary School	1 Admin / Clinic	4846 SW Shore Avenue	Arcadia	34267			0	0	149	0		Built 1975
Pine Creek Chapel #1		1267 SW Pine Chapel Drive	Arcadia	34266	N	G	0	0	0	103	Private	Doesn't meet ARC 4496
Seventh Day Adventist Church		2865 SE AMI Drive	Arcadia	34266			0	0	0	0		Doesn't meet ARC 4496
South Florida Community College		2251 NE Turner	Arcadia	34266	N	P				0	EHPA	SpNS shelter-see below
Trinity United Methodist #1		304 West Oak Street	Arcadia	33821		G	0	0	175	0		
Trinity United Methodist #2		304 West Oak Street	Arcadia	33821		G	0	0	140	0		
Turner Agri-Civic Center		2250 Northeast Roan Stree	Arcadia	34266	N	G	0	0	0	0	L,F	$200k Agricultural grant- decommissioned
Turner Center Exhibit Hall		2260 NE Roan	Arcadia	34266	R	P			0	0	L,F / HMGP / S-1508	SpNS shelter-see below
West Elementary School	13-A Classroom	304 West Imogene Avenue	Arcadia	34266		G	0	0	233	0		Built 1986 (FISH)
West Elementary School	14-B Classroom	304 West Imogene Avenue	Arcadia	34266		G	0	0	326	0		Built 1986 (FISH)
West Elementary School	15-C Clasroom	304 West Imogene Avenue	Arcadia	34266		G	0	0	326	0		Built 1986 (FISH)
West Elementary School	16-D Classroom	304 West Imogene Avenue	Arcadia	34266		G	0	0	215	0		Built 1986 (FISH)
West Elementary School	17-E Classroom	304 West Imogene Avenue	Arcadia	34266		G	0	0	244	0		Built 1986 (FISH)
West Elementary School	18-F Dining	304 West Imogene Avenue	Arcadia	34266		G	0	0	167	0		Built 1986 (FISH)
				TOTALS FOR DESOTO COUNTY			**2,542**	**49,373**	**4,511**	**2,782**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**2,542**	**3,159**	**-617**	**49,373**			**-13,807**	**DEFICIT**			

DESOTO

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
South Florida Comm. College (Priority 1)		2251 NE Turner Ave	Arcadia	34266	N	P	151	7,194		151		EHPA
Turner Center Exhibit Hall (Priority 2)		2260 NE Roan Street	Arcadia	34266	R	P	60	2,400		140		
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**211**	**120**	**91**	**12,660**			**5,460**	**SURPLUS**				

DIXIE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
James M Anderson ES		815 SE 351 Hwy	Cross City	32628		G	0	0		0		
Dixie County High School		16077 SE 19 Hwy	Cross City	32628		G	0	0		0		
Old Town ES	1 - Classroom	221 SE 136th Av (CR 349)	Old Town	32680	R	G				106	S-1435A	205 persons, EXITNG storm only
Old Town ES	2 - Classroom	221 SE 136th Av (CR 349)	Old Town	32680	R	G				460	S-1435A	460 persons, EXITNG storm only
Old Town ES	3 - Classroom	221 SE 136th Av (CR 349)	Old Town	32680	R	G				321	S-1435A	321 persons, EXITNG storm only
Old Town ES	4 - Classroom	221 SE 136th Av (CR 349)	Old Town	32680	R	G				165	S-1435A	165 persons, EXITNG storm only
Old Town ES	5 - Media	221 SE 136th Av (CR 349)	Old Town	32680	R	G				175	S-1435A	74 persons, EXITNG storm only
Old Town ES	7 - Café	221 SE 136th Av (CR 349)	Old Town	32680	N	P				0	L / HB7121	SpNS-see below
Ruth Raines Middle School	1 South & 1 north	981 SE 351 HWY	Cross City	32628	R	G	489	9,788		489	S-1435A	WD 2002 Values
Ruth Raines Middle School	2 Voc-Clsrm	981 SE 351 HWY	Cross City	32628	R	G	61	1,272		61	S-1435A	Updated FISH Data
Ruth Raines Middle School	3 Gymnasium	981 SE 351 HWY	Cross City	32628	R	G	206	5,148		160	S-1435A	
Ruth Raines Middle School	7 Clasroom	981 SE 351 HWY	Cross City	32628	R	G	0	0		0		Built 2008
Ruth Raines Middle School	5 Band	981 SE 351 HWY	Cross City	32628	R	G	70	1,406		70	S-1435A	WD 2002 Values
				TOTALS FOR DIXIE COUNTY			**826**	**17,614**	**0**	**2,007**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**826**	**1,832**	**-1,006**	**17,614**			**-19,026**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Old Town ES	7 - Café	221 SE 136th Av (CR 349)	Old Town	32680	N	P				84		Note: EHPA Updated FISH Data, 84 persons EXITNG storm only

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**142**	**-142**	**0**			**-8,520**	**DEFICIT**			

DUVAL

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Andrew A. Robinson Elementary School	1 & 2	101 12th Street West	Jacksonville	32206	R	G	1,898	47,451		1,853	S, F	HMGP1306-106 HMGP1539.
Abess Park Elementary	main (1st flor)	12731 Abess Blvd	Jacksonville	32225	R	G	1,369	26,559		1,369	S, F	HMGP1300-108 HMGP 1545- effective 2008.
Abess Park Elementary	main (2nd flor)	12731 Abess Blvd	Jacksonville	32225	R	G	1,244	27,380		1,369	S, F	HMGP 1561-235.
Abess Park Elementary	add to previous	12731 Abess Blvd	Jacksonville	32225	R	G	1,244	24,880		1,244	L, F	HMGP 1561- HMGP 1545 effecitve 2008.
Abess Park Elementary	add to previous	12731 Abess Blvd	Jacksonville	32225	R	G	0	0				New totals for Abess Park EL.
Alfred I. Dupont Middle School	7 Classroom	2710 Duport Avenue	Jacksonville	32217			0	0				Built 2001
Andrew Jackson High School		3816 Main Street North	Jacksonville	32206								
Arlington Middle School	1 Main	8141 Lone Star Road	Jacksonville	32211	N	G	2,517	50,331			F, S	Udated FISH data.
Arlington Middle School	2 Gym	8141 Lone Star Road	Jacksonville	32211	N	G	450	8,996				Udated FISH data.
Arlington Middle School	3 ESE	8141 Lone Star Road	Jacksonville	32211	N	G	211	4,218				Udated FISH data.
Atlantic Coast High School	TBA	9735 AC Skinner Parkwy	Jacksonville	32256	N	G, P	850	17,000		850	L	Built August 2010, effective 2011 Season - Applied for HMGP 1679 and PDM $ no response.
Axson, John Allen ES	2 Multipurpose	4763 Sutton Park Court	Jacksonville	32224	N	G	206	4,119				per EHPA list.
Axson, John Allen ES	3 Classroom	4763 Sutton Park Court	Jacksonville	32224	N	G	763	15,269				per EHPA list.
Axson, John Allen ES	4 Classroom	4763 Sutton Park Court	Jacksonville	32224	N	G	316	6,312		300		per EHPA list.
Baldwin JrSr HS	4 Cafeteria / Gym	291 Mills Street	Baldwin	32224	R	G					L, F	HB7121-not done.
Bartram Springs Elem School	1 Classroom Wing C, Teacher Planning Area	14799 Bartram Springs Parkway	Jacksonville	32258	N	G, P	436	8,720		436	L	Built 2009 - Applied for HMGP 1679 (Tier III)/ & PDM $ no response.
Biltmore Elementary School		2101 West Palm Avenue	Jacksonville	32254								
Brookview Elementary School		10450 Theresa Drive	Jacksonville	32246								
Carter G. Woodson Elementary School		2334 Butler Avenue	Jacksonville	32209								
Chaffee Trail Elem School	1 ESE7 Classroom	11400 Sam Caruso Way		32221	N	G	800	16,000		800	L	Opened AUG 2007
Chets Creek Elementary School	main (1st flor)	13200 Chets Creek Blvd	Jacksonville	32224	R	G	1,369	27,114		1,369	S, F	HMGP1300-107 HMGP 1539,
Chets Creek Elementary School	main (2nd flor)	13200 Chets Creek Blvd	Jacksonville	32244	R	G	1,369	27,380		1,369	S, F	roof issues -HMGP 1561-235 HMGP 1539,
Chets Creek Elementary School	add to previous	13200 Chets Creek Blvd	Jacksonville	32244	R	G	1,244	24,880		1,244	L, F	HMGP 1561-online April 2008,
Chets Creek Elementary School	add to previous	13200 Chets Creek Blvd	Jacksonville	32244	R	G						new total for school,
Chimney Lakes Elementary School	A, B, D (1st floor)	9353 Staples Mill Road	Jacksonville	32244	R	G, A	2,367	59,184		1,298	S, F	HMGP1300-105 HB7121,
Chimney Lakes Elementary School	add to previous-2nd flr	9353 Staples Mill Dr.	Jacksonville	32244	R	G, A	1,298	25,960		2,596	L, F	HB7121-additional to previous-engineering study,
Crystal Springs Elementary School	add to previous-2nd flr	1200 Hammond Blvd.	Jacksonville	32221	R	G	1,361	27,220		2,722	L, F	HB7121-additional to previous/engineering study,
Crystal Springs Elementary School	D (1st flr)	1200 Hammond Blvd.	Jacksonville	32221	R	G	1,361	27,220		1,361	S, F	HMGP1300-111 (laydown) HB7121,
Crystal Springs Elementary School	add to previous-2nd flr	1200 Hammond Blvd.	Jacksonville	32221	R	G	588	11,760		588	L, F	HB7121-additional to previous- eng strudy in progress.
Don Brewer Elementary School	Main (1st flr)	3385 Hartsfield	Jacksonville	32211	N	G	801	20,024		537		
Douglas Anderson School of the Arts	28	2445 San Diego Road	Jacksonville	32207	N	G	900	18,000		300	L/CIP-FL/DOE	County Added 2015. Built September 2015
Douglas Anderson School of the Arts	107 Cafeteria / Classroom	2445 San Diego Road	Jacksonville	32207	N	G	0	0		300	L, S	In Planning stage for 2014
Edward White Sr High School	10 Classroom	1700 Old Middleburg Rd North	Jacksonville	32210		G	0	0				
Englewood Sr. High School		4412 Barnes Road	Jacksonville	32207		G						
Enterprise Learning Academy	Main (1st flr)	8085 Old Middleburg Rd	Jacksonville	32222	R	P	0	0				changed to SpNS HB7121.
Eugene Butler Middle School	3 ESE	900 Acorn Street	Jacksonville	32209		G	0	0				
Fla State College Jacksonville (FSCJ) CECIL FIELD	2 Aviation	13450 Lake Fretwell St.	Jacksonville	32221	N	G	708	14,160		708	S (DOE), F	Effective 2009 Hurricane Season
First Coast High School		590 Duval Station Road	Jacksonville	32218		G						
Fort Caroline Middle School		3757 University Club Blvd	Jacksonville	32277		G					S, F	HMGP 1300-10
Garden City Elementary School		2814 Dunn Avenue	Jacksonville	32218		G						EXITING storm only 1.97' SLOSH
Greenland Pines Elem School		5050 Greenland Road	Jacksonville	32258	R	G				1,680		
Highlands Middle School		10913 Pine Estate Road	Jacksonville	32218		G						EXITING storm only 4' SLOSH
Hyde Park Elementary School		5300 Park Street	Jacksonville	32205		G						
J.E.B. Stuart Middle School		4815 Wesconnett Blvd	Jacksonville	32210		G						
Jacksonville Heights Elementary School		7750 Tempest Street South	Jacksonville	32244		G						
Jefferson Davis Middle School	8 Classroom	7050 Melvin Road	Jacksonville	32210		G	0	0				
Joseph Stilwell Middle School	4 Classroom	7840 Burma Road	Jacksonville	32221		G	0	0				Built 1990

DUVAL

Kernan Trails Elementary School	Main	2281 Kernan Blvd south	Jacksonville	32246	N	G	1,460	36,488		537	L	
Lake Lucina Elementary School		6527 Merrill Road	Jacksonville	32277		G						
Landmark Middle School	Main 2nd floor?	101 Kernan Road	Jacksonville	32225	R	G, A	0	0		530	S, F	HMGP 1561-235.
Landmark Middle School		101 Kernan Road	Jacksonville	32225		G, A					S, F	HMGP1300-104.
LaVilla Middle School of the Arts	1st flr East Wing	501 Davis Street North	Jacksonville	32202	N	G	1,586	39,659		818		
LaVilla Middle School of the Arts	2nd floor	501 Davis Street North	Jacksonville	32202	R	G	1,228	24,560		1,228	L, S, F	Built 2010. HMGP-1679-additional to previous.
Mamie Agnes Jones ES	cafeteria, enclosed areas	700 Orange Avenue	Baldwin	32234	R	G				53	L, F	Host Shelter. DEM accepted for Post disaster sheltering - HMGP-1785
Mandarin High School		4831 Greenland Road	Jacksonville	32258							L	Built 1989
Mandarin Middle School	1#63-70	5100 Hood Road	Jacksonville	32257	R	G	396	7,920		396		Built 1989: EXITING storm
Mandarin Middle School	add to previous-2nd flr	5100 Hood Road	Jacksonville	32257	R	G, P	588	11,760		1,764	L, F	HB7121--additional to previous/engineering study
Mandarin Oaks Elementary School	A, D (1st flr)	10600 Hornets Nest Road	Jacksonville	32257	R	G	2,950	61,705		2,950		HMGP 1561.
Mandarin Oaks Elementary School	add to previous	10600 Hornets Nest Road	Jacksonville	32257	R	G	2,950	59,000		559	L, F	Built 1988. HMGP 1561- HMGP 1539 add to previous, effective 2008.
Northshore Elementary School	1 Main	5701 Silver Plaza	Jacksonville	32208		G	0	0				Built 2008
Northshore Elementary School	2 Gymnasium	5701 Silver Plaza	Jacksonville	32208		G	0	0				Built 2008
Northwestern Middle School	9 Classroom	2100 45th Street	Jacksonville	32209		G	0	0				Built 2000
Nutrition Service Center	1 Main	3405 Norman Thagard Blvd	Jacksonville	32254	N	G	0	0				Built 2006
Oceanway Elementary School	1 Main	143 Oceanway Avenue	Jacksonville	32218		G	1,462	36,557		537		EHPA
Oceanway Middle School	2 Café	143 Oceanway Avenue	Jacksonville	32218	N	P						changed to PSN.
Paxon MS		3276 Norman Thagard Blvd	Jacksonville	32254		G						
Paxon School for Advanced Studies		3239 Norman Thagard Blvd	Jacksonville	32254		G						
Pine Estates Elementary School		10741 Pine Estates Road East	Jacksonville	32218		G						EXITING storm only 5.6' SLOSH
R. F. Kennedy Center		1033 Ionia Street	Jacksonville	32206		G						
R. F. Kennedy Center		1033 Ionia Street	Jacksonville	32206	N	P				958	S, F	HMGP1300-110.
Ramona Elementary School		5540 Ramona Boulevard	Jacksonville	32205		G						
Richard L. Brown Elementary School		1535 Milnor Street	Jacksonville	32206		G						EXITING storm only 2.8' SLOSH
Robert E. Lee Sr High School		1200 McDuff Avenue S	Jacksonville	32205		G						
S.A. Hull Elementary School		7528 Hull Street	Jacksonville	32219		G						
Sabal Palm Elementary School	add to previous	1201 Kernan Road	Jacksonville	32225	R	G	2,950	59,000		2,950	L. F	HMGP 1561-online April 2008.
Sabal Palm Elementary School	2nd floor?	1201 Kernan Road	Jacksonville	32225	R	G	0	0		559		HMGP 1545 - addition to previous, effective April 2008.
Sabal Palm Elementary School	A, D (1st flr)	1201 Kernan Road	Jacksonville	32225	R	G	0	0				total for school-61896.
San Jose Elementary School	5 Classroom	5805 St. Augustine Road	Jacksonville	32207		G	0	0				Built 2004
Sandalwood Jr./Sr. High School	4 Classroom	2750 John Prom Blvd	Jacksonville	32246		G	0	0				Built 2000
Southside Middle School		2948 Knights Lane East	Jacksonville	32216		G	0	0				
Spring Park Elementary School		2250 Spring Park	Jacksonville	32217		G	0	0			L	
Stanton College Prep School		1149 13th Street	Jacksonville	32209		G	0	0			L	
Terry Parker Sr. High School	10 ESE 2004	7301 Parker School Road	Jacksonville	32211		G	0	0			S, F	HMGP1300-103.
The Legends Center of City of Jacksonville	1	5130 Soutel Drive	Jacksonville	32208	N	G, P	478	9,560		478	L, S, F	Opened 2010 - effective 2011 Season - City CIP & CDBG & HB7121 funds.
Twin Lakes Academy	main (2nd flor)	8050 Point Meadows Drive	Jacksonville	32256	R	G	0	0		1,369	F	SBC- Open spans-HMGP 1561-235.
Twin Lakes Academy	main(1st flr)	8050 Point Meadows Drive	Jacksonville	32256	R	G	1,369	27,380		1,369	L	
Twin Lakes Academy	add to previous	8050 Point Meadows Drive	Jacksonville	32256	R	G	1,244	24,880		1,244	L, F	HMGP 1561-HMGP 1545 online April 2008.
Westside HS (formerly NB Forrest SrHS)		5530 Firestone Road	Jacksonville	32244		G					L	
Westview K-8	North side of cafeteria, gymnasium, & PMH wing	5270 Connie Jean Road	Jacksonville	32210	N	G	817	16,340		817	L	Open August 2009 - Applied for HMGP 1679 (Tier III)/ & PDM $ no response.
William M. Raines Sr High School		3663 Raines Avenue	Jacksonville	32209		G	0	0				
Wolfson Sr. High School		7000 Powers Avenue	Jacksonville	32217		G					L	
Woodland Acres Elementary School		328 Bowlan Street	Jacksonville	32211		G				300		HMGP1300-102.
						G	0	0				
						TOTALS FOR DUVAL COUNTY	**45,148**	**954,946**	**0**	**43,709**		

	Shelter Capacity In People	**Shelter Demand In People**	**Surplus/ Deficit In People**	**Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**			
Storm Category 4/5	**45,148**	**40,802**	**4,346**	**954,946**			**138,906**	**SURPLUS**			

DUVAL

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Atlantic Coast High School	TBA	9735 AC Skinner Parkwy	Jacksonville	32256	N	G, P	250	15,000		250	L	Built August 2010, effective 2011 Season - Applied for HMGP 1679 and PDM $ no response. Emergency Power supports HVAC per 2015 DOH.
Bartram Springs ES	Cafetorium	14799 Bartram Springs Parkway	Jacksonville	32258	N	G, P	110	6,660		436	L	Built August 2009, Applied for HMGP 1679 (Tier III)/ & PDM $ no response. Emergency Power supports HVAC per 2015 DOH.
Enterprise Learning Academy (2nd Priority)	Main (1st flr)	8085 Old Middleburg Road	Jacksonville	32222	R	P	540	21,600		671		HB7121 SpNS generator project - updated figures 08-15-08 with DCPS for 60 SqFt
Landmark MS (Priority 4)	Main (1st flr)	101 Kernan Road	Jacksonville	32225	R	P, A	0	0	0	496		updated figures 08-15-08 with DCPS for 60 S.F.
Mandarin MS (Priority 3)	1#63-70	5100 Hood Road	Jacksonville	32257	R	P	0	0	114	496		HB7121 eng. Study in progress.
The Legends Center of City of Jacksonville	1	5130 Soutel Drive	Jacksonville	32208	N	G, P	62	3,720		62	L, S, F	Construction to begin fall 2009 -to open Fall 2010 - Shelter effective 2011 Season - City CIP & CDBG &
Oceanway MS (1st Priority)	2-Café	143 Oceanway Avenue	Jacksonville	32218	R	P	172	6,884	0	200		EHPA
Twin Lakes Academy ES (priority 5)		8000 Point Meadows Drive	Jacksonville	32256	R	P	857	53,969	0	857		updated figures 08-15-08 with DCPS for 60 SqFt SpNS only
Waterleaf ES	1 Wing (c) Cafetorium / teacher planning area	450 Kernan Blvd. N.	Jacksonville	32225	N	P	219	13,140		219	L	Built 2011 EHPA
Westview K-8	North side of school - Classrooms, band and vocal Rooms	5270 Connie Jean Road	Jacksonville	32210	N	P	167	10,020		167	L	Built August 2009, may be used in late 2009 Season - Applied for HMGP 1679 (Tier III)/ & PDM $ no response.
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**2,377**	**4,262**	**-1,885**	**142,620**			**-113,100**	**DEFICIT**				

ESCAMBIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bailey MS	1	4110 Bauer Road	Pensacola	32506	R	G	124	2,480		0	S-1435A-2003	No longer in evacuation zone based upon new zones. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	2	4110 Bauer Road	Pensacola	32506	R	G	99	1,989		0	S-1435A-2003	See notes-whole building was shuttered. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	3	4110 Bauer Road	Pensacola	32506	R	G	27	546		0	S-1435A-2003	No longer in evacuation zone based upon new zones. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	4	4110 Bauer Road	Pensacola	32506	R	G	169	3,376		0	S-1435A-2003	Certified 140 mph, 1.15 Importance factor, Cat. III, Exposure B. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	5	4110 Bauer Road	Pensacola	32506	R	G	662	13,234		0	S-1435A-2003	Certified 140 mph, 1.15 Importance factor, Cat. III, Exposure B.Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	6	4110 Bauer Road	Pensacola	32506	R	G	618	12,357		0	S-1435A-2003	No longer in evacuation zone based upon new zones. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	7	4110 Bauer Road	Pensacola	32506	R	G	486	9,726		0	S-1435A-2003	no longer in evacuation zone based upon new zones. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	8	4110 Bauer Road	Pensacola	32506	R	G	461	9,227	`	0	S-1435A-2003	no longer in evacuation zone based upon new zones. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS	9	4110 Bauer Road	Pensacola	32506	R	G	806	16,115		0	S-1435A-2003	Certified 140 mph, 1.15 Importance factor, Cat. III, Exposure B. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Bailey MS		4110 Bauer Road	Pensacola	32506	R	G				2,081		
Bellview Assembly of God		2920 W. Michigan Ave	Pensacola	32526		G	0	0		0		
Bellview Baptist Church		4750 Saufley Rd	Pensacola	32526		G	0	0		0		
Bellview Elementary School[1]	5 Classroom	4425 Bellview Avenue	Pensacola	32506	R	G	309	5,420		0	S-1435A-2003	
Bellview Middle School[1]	10 Classroom	6201 Mobile Highway	Pensacola	32506	R	G	0	0		0		Built 2010
Beulah Elementary School1	1 Classroom Addition (2000)	6201 Helms Road	Pensacola	32506		G	185	3,693		0	S-1435A-2003	Updated FISH Data
Beulah Elementary School1	Main	6201 Helms Road	Pensacola	32506	R	G				0	L, S, F	HMGP
Blue Angel ES	100 wing	1551 Dog Track Road	Pensacola	32506	R	G	274	6,851		0	L	Updated FISH Data
Blue Angel ES	200 wing	1551 Dog Track Road	Pensacola	32506	R	G	200	5,005		0	L	Updated FISH Data

ESCAMBIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Blue Angel ES	300 wing	1551 Dog Track Road	Pensacola	32506	R	G	354	6,222		0	L	Updated FISH Data
Blue Angel ES	400 wing	1551 Dog Track Road	Pensacola	32506	R	G	419	7,701		0	L	Updated FISH Data
Blue Angel ES	500 wing	1551 Dog Track Road	Pensacola	32506	R	G	463	7,842		0	L	Updated FISH Data
Blue Angel ES	600 wing	1551 Dog Track Road	Pensacola	32506	R	G	406	8,653		0	L	Updated FISH Data
Blue Angel ES	Whole Bldg	1551 Dog Track Road	Pensacola	32506	R	G				2,179	L	Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Brentwood ES	5 Classroom	4820 North Palaof	Pensacola	32505	R	G	427	8,532		0	1588-2006	shutters complete July 2007; Updated FISH Data
Brownsville Middle School[1]		3700 West Avery Street	Pensacola	32503	R	G				0		
Carver Middle School[1]		700 East Hecker Road	Century	32525	R	G				0		
Carver / Century Middle School	7 Classroom	440 East Hecker Road	Century	32535	R	G	547	11,029		0		school closed
Charity Chapel		5820 Montgomery Ave	Pensacola	32526		G	0	0		0		
Circle Baptist		808 New Warrington Rd	Pensacola	32505		G	0	0		0		
Community Workshop Center		6200 West Nine Mile Rd	Pensacola	32526		G	0	0		0		
Cordova Park Elementary	7 Classroom	2250 Semur Road	Pensacola	32503	N	G	227	4,536		0	L	per EHPA list
Ernest Ward Middle School[1]	1 Main	7650 Highway 97	Walnut Hill	32568	R	G	0	0		0		Built 2013
Escambia Wesgate Center	6 ESE	10050 Ashton Brosnaham Rd	Pensacola	32534	R	G	400	8,000		0	1588-2006	shutters complete July 2007
Escambia Wesgate Center	1-Class Add	10052 Ashton Brosnaham Rd	Pensacola	32536	N	G	0	0		0		per EHPA list. FISH list built 2007
Escambia Wesgate Center	7 ESE	10051 Ashton Brosnaham Rd	Pensacola	32535		G	0	0		0		
Ferrypass ES	5 Classroom	8310 North Davis	Pensacola	32514	R	G	293	5,717		0	S-1435A-2003	
Ferrypass MS	4 Classroom	8355 Yancey Ave	Pensacola	32514	R	G	311	6,211		247	S-1435A-2003	Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 sq. ft. per person on raw square footage.
Ferry Pass MS	8 Gymnasium	8355 Yancey Ave	Pensacola	32514	N	G	617	12,344		507		New Construction-FBC.Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 sq. ft. per person on raw square footage.
First Presbyterian Church		33 East Gregory St	Pensacola	32595		G	0	0		0		9.21' SLOSH
First United Methodist		6 East Wright St	Pensacola	32501		G	0	0		0		
Global Learning Academy	1 Main Whole Bldg	100 North P Street	Pensacola	32505	N	G	2,559	51,189		2,887		Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.
Holy Cross Episcopal Church		7979 North 9th Ave	Pensacola	32514		G	0	0		0		
Holy Spirit Catholic Church		10650 Gulf Beach HWY	Pensacola	32507		G	0	0		0		
Jim Allen Elementary School[1]	6 Classroom	1051 Highway 95A	Cantonment	32533	R	G	293	5,077		0	F,S,L-HMGP	
Liberty Church		2221 S. Blue Angel Pkwy	Pensacola	32506		G	0	0		0		
Lipscomb Elementary School[1]	100 wing N	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G	252	5,041		0	F,S,L-HMGP	
Lipscomb Elementary School[1]	100 wing S	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G	105	2,102		0	F,S,L-HMGP	
Lipscomb Elementary School[1]	200 wing	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G	252	5,049		0	F,S,L-HMGP	
Lipscomb Elementary School[1]	300 wing	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G	204	4,085		0	F,S,L-HMGP	
Lipscomb Elementary School[1]	400 wing	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G	200	3,990		0	F,S,L-HMGP	
Lipscomb Elementary School[1]	500 wing	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G	300	5,990		0	F,S,L-HMGP	
Lipscomb Elementary School[1]	600 wing	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G	330	6,598		0	F,S,L-HMGP	
Lipscomb (RC) Elementary School	Whole Bldg	10200 Ashton Brosnaham Dr	Pensacola	32504	R	G				1,707	F,S,L-HMGP	Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.
Longleaf Elementary	2	2600 Longleaf dr	Pensacola	32526	R	G	392	7,840		0	S-1435A-2003	
Macedonia CME Church		2285 Stacy RD	Pensacola	32533		G	0	0		0		
Marcus Point Baptist		6205 North "W" St	Pensacola	32535		G	0	0		0		

ESCAMBIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Marie Young Community Center		6405 Wagner Road	Pensacola	32505	N	G	389	7,770		476		Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 sq. ft. per person on raw square footage.
Molino Park ES	1 Main	899 Hwy 97	Molino	32577	N	G, A	683	13,651		0	L	
Molino Park ES	2,3,4,5	899 Hwy 97	Molino	32577	R	G, A	1,062	21,240		0	S	shuttering complete June 2007
Molino Park ES	Whole Bldg	899 Hwy 97	Molino	32577	R	G, A				2,073	L, S	Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.
Navy Point Elementary		1050 Gulf Beach Hwy	Pensacola	32507	R	G	148	2,950		0		No longer in evacuation zone based upon new zones. Numbers based upon FISH data and State's formula
Northview High School	1	4100 West Highway 4	Century	32525	R		1,489	29,772		1,257	S-1435A=2003 / S-1508-2005	Storefront not protected- remainder is mitigated. Local usable space determined as a result of ECSD and ARC site reviews. ARC tabulated numbers based on 20 SqFt / person on raw SqFt.
Pensacola Bay Center	1st/2lfr halls	201 East Gregory St	Pensacola	32501	R	G	2,000	39,995	0	1,999	L	Added back-2013. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw SqFt.
Pensacola Junior College	Lou Ross Bldg	1000 College Avenue	Pensacola	32514	R	G	0	0		0	F, L - Proj Impact	
Pensacola Junior College	Main	1000 College Avenue	Pensacola	32514	R	G	0	0		0	F,S,L-HMGP	
Pensacola Senior High	5- Gymnasium	500 West Maxwell Street	Pensacola	32501	N	G	746	15,179		1,104	L	per EHPA list.
Ransom Middle School[1]		1000 West Kingsfield	Cantonment	32533	R	G	0	0		0		
Saufley Field		Saufley Field	Pensacola	32526		G	0	0		0		
Scenic Heights Elementary School[1]		3801 Cherry Laurel Drive	Pensacola	32514	R	G				0		
Scenic Hills Church		1295 E. Nine Mile Rd	Pensacola	32514		G	0	0		0		
Sherwood Elementary School[1]	10 Classroom Addition	501 Cherokee Trail	Pensacola	32506	R	G	212	3,643		0	S-1435A-2003	
St. Christopher		3200 North 12th Aven	Pensacola	32503		G	0	0		0		
Tate (JM) SrHS	38 Gymnasium	1771 Tate Road	Cantonment	32514	R	G	1,300	26,000		1,010	S-1508-2005	shuttered. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.
Tate (JM) SrHS	39 / Café	1771 Tate Road	Cantonment	32514	R	G	514	8,200		0	S-1435A-2003	Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.
University of West Florida	13	11000 University Parkway	Pensacola	32514		G	389	5,364		301	S-1523-2002	Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.
University of West Florida	72	11000 University Parkway	Pensacola	32514	R		2,369	47,380		2,313	S-1588-2006	Impact glass completed Dec 2006. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.

2016 Statewide Emergency Shelter Plan

ESCAMBIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Warrington MS	8 Gymnasium	450 South Old Corry Road+C51	Pensacola	32507	N	G	569	11,386		565		New Construction-FBC. Local usable number determined as a result of ECSD and ARC site reviews for usable space. ARC tabulated the numbers based on 20 SqFt / person on raw square footage.
Washington Sr High School		6000 College Road	Pensacola	32504	R	G				0		
West Pensacola Elementary	3 Classroom	801 North 49th Ave	Pensacola	32506	R	G	227	4,546		0	S-1435A-2003	
WJ Woodham High School		150 East Burgess Road	Pensacola	32504	R	G						
Workman, J.H. Middle School	7 Classroom	6299 lanier Dr	Pensacola	32504	R	G	286	7,150		0	S-1435A-2003	
TOTALS FOR ESCAMBIA COUNTY							**26,153**	**517,993**	**0**	**20,706**		

	Shelter Capacity In People	Shelter Demand In People	Surplus / Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**26,153**	**10,680**	**15,473**	**517,993**			**304,393**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
West Florida High School (formerly GEO STONE)	9 Gymnasium / Cafeteria	2404 Longleaf Drive	Pensacola	32506	N	P	291	14,174		291	L	Updated per2003 LRDM / 2015 County report
West Florida High School (formerly GEO STONE)	25 Dining	2404 Longleaf Drive	Pensacola	32506	R	P	222	12,993		357	S	Updated per2003 LRDM / 2015 County report. 800 KW Gen (DOH)
West Florida High School (formerly GEO STONE)	26 Classroom	2404 Longleaf Drive	Pensacola	32506	R	P	89	6,096		357	S	Updated per2003 LRDM / 2015 County report. 800 KW Gen (DOH)

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**602**	**879**	**-277**	**36,120**			**-16,620**	**DEFICIT**			

FLAGLER

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Belle Terre ES	300 Classroom	5345 Belle Terre Parkway	Palm Coast	32127		G	202	4,041				AS-IS- interior corridors per study
Belle Terre ES	400 Classroom	5345 Belle Terre Parkway	Palm Coast	32127		G	180	3,607				AS-IS- interior corridors per study
Belle Terre ES	500 Cafetorium	5345 Belle Terre Parkway	Palm Coast	32127		G	368	7,359				EHPA per State study, no surge
Belle Terre ES	600 Classroom	5345 Belle Terre Parkway	Palm Coast	32127		G	170	3,409				AS-IS- interior corridors per study
Belle Terre ES	700 Classroom	5345 Belle Terre Parkway	Palm Coast	32127		G	97	1,930				AS-IS- interior corridors per study
Buddy Taylor Middle School	Main	4500 Belle Terre Parkway	Palm Coast	32137		G	0	0	2,421		F-HMGP	roof not retrofitted as thought
Buddy Taylor Middle School	7 Classroom	4500 Belle Terre Parkway	Palm Coast	32137		G	0	0				Built 2007 (FISH)
Bunnell Elementary School	9 Classroom	305 N Palmetto	Bunnell	32110		G	144	2,880			S	Built 2000. Retrofit to be completed 2015
Bunnell Elementary School	13 Classroom	305 N Palmetto	Bunnell	32110		G	1,123	22,452			S	Built 2006. Retrofit to be completed 2015
Indian Trails Elementary School	1 Classroom	5055 Belle Terre Parkway	Palm Coast	32137		G	0	0	1,355			
Lewis E. Wadsworth Elementary School	400 Multipurpose	4550 Belle Terre Parkway	Palm Coast	32135	R	G	128	2,798		128	F-HMGP	updated FISH Data
Matanzas HS	3-Gym	3535 Old Kings Road	Palm Coast	32137		G	710	14,203				AS-IS- gym- no windows?
Matanzas HS	4-Dining	3535 Old Kings Road	Palm Coast	32137		G	235	4,693				EHPA per State study
Old Kings Elementary School	1 Admin / Clinic / Classroom	North Old Kings Road	Bunnell	32136		G	0	0				SLOSH 21.1' affected by CAT 1 Storm Also
(Flagler) Palm Coast High School	200 -1st Floor	3265 East Highway 100	Bunnell	32110	R	G	697	16,411		697	F-HMGP	1st floor shuttered per report
(Flagler) Palm Coast High School	700 -2nd Floor	3265 East Highway 100	Bunnell	32110	R	G	556	10,572		556	F-HMGP	2nd floor shuttered per report
(Flagler) Palm Coast High School	800 Gym	3265 East Highway 100	Bunnell	32110	R	G	556	10,401		556	F-HMGP	excludes gym area per report
Rymfire Elem School	6 Classroom	1425 Rymfire Drive	Palm Coast	32164	N	G, P	1,116	22,325				2011 desktop survey. Built 2008.
Rymfire Elem School	7 Gym / Music	1425 Rymfire Drive	Palm Coast	32164	N	G, P	716	14,323				2011 desktop survey. Built 2008
TOTALS FOR FLAGLER COUNTY							**6,998**	**141,404**	**3,776**	**1,937**		

	Shelter Capacity In People	Shelter Demand In People	Surplus / Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**6,998**	**6,227**	**771**	**141,404**			**16,864**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Rymfire ES	4	1425 Rymfire Drive	Palm Coast	32164	N	P	122	7,296		1,500		Built Aug 2006
Buddy Taylor MS	main	4500 Belle Terre Parkway	Palm Coast	32137		P			777	777		Roof has not been retrofitted
Bunnell ES		500 East Howe Street	Bunnell	32110		P			0			

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**122**	**328**	**-206**	**7,320**			**-12,360**	**DEFICIT**			

FRANKLIN

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Apalachicola High School		190 14th St	Apalachicola	32320			0	0	350			
Brown Elementary School		85 School Road	Eastpoint	32328			0	0	300			
Carabelle High School		1001 Grey Avenue	Carabelle	32322			0	0	300			
Chapman Elementary School		155 Ave E	Apalachicola	32320			0	0	450			
Church of God		1400 Tallahassee Street	Carabelle	32322			0	0	60			
Church of God		379 Ave A	Eastpoint	32328			0	0	100			
Fellowship Baptist Church		706 Ryan Street	Carabelle	32322			0	0	100			
First Baptist Church		206 SE Ave A	Carabelle	32322			0	0	180			
Lanark Community Church		Spring Street	Lanark Village	32323			0	0	75			
First Baptist Church		447 Ave A	Eastpoint	32328			0	0	100			
Mormom Church		Prado Street	Apalachicola	32320			0	0	60			
Mt Zion Baptist Church		98 Ave E	Apalachicola	32320			0	0	100			
United Methodist Church		102 NE Ave E	Carabelle	32322			0	0	175			
United Methodist Church			Apalachicola	32320			0	0	60			
TOTALS FOR FRANKLIN COUNTY							**0**	**0**	**2,410**	**0**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**319**	**-319**	**0**			**-6,380**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Uses Regional Shelter												

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**214**	**-214**	**0**			**-12,840**	**DEFICIT**			

GADSDEN

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Arnet Chapel AME Church		210 South Duval	Quincy	32351		G	0	0	60			
Carter-Parramore Middle School		South Stewart	Quincy	32351		G			320			
Chattahoochee Elementary School		335 Maple Street	Chattahoochee	32324		G			250			
Chattahoochee High School		613 Chattahoochee Street	Chattahoochee	32324		G			180			
Chattahoochee Presbyterian Church		425 Main Street	Chattahoochee	32324		G	0	0	125			
Florida State Hospital		Highway 90	Chattahoochee	32324		G	0	0	200			
Friendship African Methodist Church		Wire Road	Chattahoochee	32324		G	0	0	200			
East Gadsden High School	4 Classroom	27001 Blue Star Memorial Hwy	Havana	32333	N	G	1,043	20,854			L	EHPA Updated FISH Data
East Gadsden High School	5 Dining	27002 Blue Star Memorial Hwy	Havana	32334	N	G	299	5,984			L	EHPA Updated FISH Data
East Gadsden High School	6 Gymnasium	27001 Blue Star Memorial Hwy	Havana	32333	N	G	800	17,744		800	L	EHPA Updated FISH Data
Gadsden Voc-Tech School		27003 Blue Star Memorial Hwy	Havana	32335		G			200			
Greensboro Elementary School (formerly Greensboro HS)	3 Cafeteria	27005 Blue Star Memorial Hwy	Havana	32337		G	0	0	200			FISH 1994
Greensboro Elementary School (formerly Greensboro HS)	2 Classroom	27005 Blue Star Memorial Hwy	Havana	32337		G	0	0	0	0		FISH 1994
Gretna Elementary School		27007 Blue Star Memorial Hwy	Havana	32339		G			300			
East Gadsden High School	300 Classroom	27008 Blue Star Memorial Hwy	Havana	32340	R	G	817	16,340			S-1496-2009	Updated FISH Data
East Gadsden High School	400 Classroom	27001 Blue Star Memorial Hwy	Havana	32333	N	G	1,043	20,854				EHPA
East Gadsden High School	500 Dining	27001 Blue Star Memorial Hwy	Havana	32333	N	G	299	5,984				EHPA
East Gadsden High School	600 Gymnasium	27001 Blue Star Memorial Hwy	Havana	32333	N	G	887	17,744				EHPA
East Gadsden High School	800 Classroom	27001 Blue Star Memorial Hwy	Havana	32333	R	G	133	2,655			S-1496-2010	Updated FISH Data
Gretna City Hall	1	14615 Main Street	Gretna	32332	R	G	0	0	400			shuttered but no report
Havana Elementary School		705 US Highway 27 South	Havana	32333		G			375			
Havana Middle School	6-D Classroom	1210 Kemp Road	Havana	32333		G	0	0	290			
Havana Middle School	7-C Classroom	1210 Kemp Road	Havana	32333	R	G	90	1,800			S-1621X	Updated FISH Data
Havana Middle School	11-J Gymnasium	1211 Kemp Road	Havana	32334	R	G	649	12,980			S-1621X	
Havana Middle School	12-H Dining	1212 Kemp Road	Havana	32335	R	G	228	4,567			S-1621X	
Havana Northside High School		264 Carver Avenue	Havana	32333		G			320			
West Gadsden HS	300 VoTech / 400 Classroom	200 Providence Road	Quincy	32351	N	G	566	11,323	0	0		Built 2007. LRDM Survey 01/2015 (EHPA)
West Gadsden HS	500 Gymnasium	200 Providence Road	Quincy	32351	N	G	527	10,531	0	0		Built 2007. LRDM Survey 01/2015 (EHPA)
West Gadsden HS	700 Cafeteria	200 Providence Road	Quincy	32351	N	G	268	5,368	0	0		Built 2007. LRDM Survey 01/2015 (EHPA)
TOTALS FOR GADSDEN COUNTY							**7,649**	**154,728**	**3,420**	**800**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**7,649**	**3,272**	**4,377**	**154,728**			**89,288**	**SURPLUS**			

GADSDEN

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Uses Regional Shelter												
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**0**	**632**	**-632**	**0**			**-37,920**	**DEFICIT**				

GILCHRIST

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bell Elementary School	5 Cafetorium	NW 10th Street	Bell	32619	N & R	G	361	5,413		492	S-1523-2002	Built 1997. 03-SR-78-03-31-01-287
Bell High School	14 Classroom	930 South Main Street	Bell	32619	R	G	305	5,405		305	S-1523-2002	Updated FISH Data
Bell High School	16 Gymnasium / Multi-Purpose	930 South Main Street	Bell	32619	N & R	G	569	14,223		467	F-HMGP	Updated FISH Data
Bell High School - Health Academy	20 Health Clsrm	930 South Main Street	Bell	32619	N & R	P	0	0			F-HMGP	Updated FISH Data
Trenton Elem School	2 Cafeteria	1350 SW SR26	Trenton	32693	N & R	G	293	4,394		492	S-1523-2002	03-SR-78-03-31-01-287
Trenton High School	27 Classroom	1013 North Main Street	Trenton	32693	R	G	342	6,931		342	F-HMGP	Built 1991
Trenton High School	28 Classroom	1013 North Main Street	Trenton	32963	R	G	450	6,753		455	F-HMGP	Built 1991
Trenton High School	30 Multi-Purpose	1013 North Main Street	Trenton	32963	R	G	208	3,127		278	F-HMGP	Built 1991
Trenton High School	34 Gymnasium	1013 North Main Street	Trenton	32963	N & R	G	499	12,483		432	S-1523-2002	Built 1991. 03-SR-78-03-31-01-287
TOTALS FOR GILCHRIST COUNTY							**3,027**	**58,729**	**0**	**3,263**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**3,027**	**1,123**	**1,904**	**58,729**			**36,269**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bell High School - Health Academy	20 Vocational	930 South Main Street	Bell	32619	R	P	102	6,115		102		Built 1998. has full generator power w/ HVAC (DOH)

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**102**	**76**	**26**	**6,120**			**1,560**	**SURPLUS**			

GLADES

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
1st United Methodist Church		Ave. L & 3rd Street	Moore Haven	33471	R	G	0	0	40	40	L	not surveyed yet
American Legion Hall		1034 Baker's Hwy	Moore Haven	33471	R	G	0	0	50	50	HMGP	Retrofit completed
Buckhead Ridge Community Center I & II		682 Hwy 78 W	Buckhead Ridge	34974		G	0	0	100	100	L	depends on Cat Storm
Buckhead Ridge V.F.W.		29012 E. SR 78	Buckhead Ridge	34974	N	G	0	0	60	60	HMGP	reinforcing walls/upgrade roof- etc- 2007-what about windows??
Doyle Conner Agricultural Center		900 Hwy 27	Moore Haven	33471		G	0	0	500	500	L	depends on Cat storm
Lake Port Community Center		10245 Red Barn Rd NW	Lakeport	33471		G	0	0			L	depends on Cat storm
Maple Grove Baptist Church		120 East State Rd 78 West	Lakeport	33471	N	G	343	5,900		343	L	
Moore Haven Elementary School		401 Terrier Pride Drive SW	Moore Haven	33471		G	0	0	204	160		Completed
Moore Haven High School		700 Terrier Pride Drive SW	Moore Haven	33471		G	0	0				not suitable
Muse Community Center (new)		3897 Loblolly Road	Muse	33935	N	G	65	3,000		46	LS	depends on Cat Storm
Muse Volunteer Fire Dept		SR 720 & Rainbow Blvd	Muse	33935		G	0	0		0	L	not a suitable bldg
Ortona Community Center		2086 Ortona Locks Rd	Moore Haven	33471	N	G	0	0				County added 2014 (needs to be surveyed for use)
Ortona Volunteer Fire Department		3070 Ortona Locks Road	Ortona	33471		G	0	0			L	depends on Cat Storm
Palmdale Community Center		7969 Main street NW	Palmdale	33944		G	0	0			L	depends on Cat Storm
Washington Park Community Center		1225 Latum Bell Street	Moore Haven	33471	N	G	0	0	`			County added 2014 (needs to be surveyed for use)
West Glades Elementary School	500 Dining	2586 CR 731	Muse	33935	N	G	278	4,165		594		Built 2003, EHPA. PSN bldg is 300
				TOTALS FOR GLADES COUNTY			**686**	**13,065**	**954**	**1,893**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**686**	**1,594**	**-908**	**13,065**			**-18,815**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
West Glades ES	300 Classroom	2586 CR 731	Muse	33935	N	P	110	7,455		50		Built 2003, EHPA
Muse Community Center (new)		3897 Lobolly Bay Rd	Muse	33935	N	P						backup SPNS

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**110**	**19**	**91**	**6,600**			**5,460**	**SURPLUS**			

GULF

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Honeyville Community Center		240 Honeyville Park Drive	Wewahitchka	32465	N	G	232	4,640		232	S-1621X	
Port St. Joe Cennential Bldg		2201 Centennial Drive	Port St. Joe	32456			0	0				
Port St. Joe Elementray School		2201 Long Avenue	Port St. Joe	32456								
Port St. Joe High School		100 Shark Circle	Port St. Joe	32456								
Wewahitchika Elementary School	13 Dining (Lunch room)	514 East River Road	Wewahitchka	32465		G				193		
Wewahitchika High School (2005)	Commons Area	754 East River Road	Wewahitchka	32465		G	0	0		120		
Wewahitchika Middle School	16	602 East River Road	Wewahitchka	32465	N	G	228	3,728		228		EHPA Updated FISH Data
				TOTALS FOR GULF COUNTY			**460**	**8,368**	**0**	**773**	**0**	

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**460**	**532**	**-72**	**8,368**			**-2,272**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Uses Regional Shelter							0	0				

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**208**	**-208**	**0**			**-12,480**	**DEFICIT**			

HAMILTON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Central Hamilton Elementary School	8 Classroom	Route 2, Box 136	Jasper	32052	N & R	G	119	2,080		119	F-HMGP	Updated FISH Data
Greenwood School	15 ESE	US 41 North	Jasper	32052	N & R	G	119	2,080		119	F-HMGP	Updated FISH Data
Hamilton County Senior High School	5 Classroom	5683 US Highway 129 South	Jasper	32052	N	G	497	9,933				2004 LRDM (DEM). EHPA. Updated FISH Data
Hamilton County Senior High School	6 Gymnasium	5683 US Highway 129 South	Jasper	32052	N	G, A	623	12,461				2004 LRDM (DEM). EHPA. Updated FISH Data
Hamilton County Senior High School	7 ROTC	5683 US Highway 129 South	Jasper	32052	N	G	0	0				Removed. 2004 LRDM (DEM) shows 2,239 usable SqFt. EHPA. Updated FISH Data.
Hamilton County Senior High School	8 Cafeteria	5683 US Highway 129 South	Jasper	32052	N	G	0	0				PSN
North Hamilton Elementray School	20	1291 Florida Street	Jennings	32053	N & R	G	119	2,704		119	F-HMGP	
Stephen Foster Memorial		Robert & Spring Street	White Spring	32096			0	0				
Town of Jennings	EOC / Fire		Jennings		N & R	G	144	2,880		144	S-EMPA	02CP-04-03-34-02-214
VFW Post 8095		Hwy 6 East	Jasper	32052		G	0	0				
TOTALS FOR HAMILTON COUNTY							**1,621**	**32,138**		**501**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,621**	**1,038**	**583**	**32,138**			**11,378**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Hamilton County Senior High School	8 cafeteria	5683 US Highway 129 South	Jasper	32052	N	P	76	4,555				2004 LRDM (DEM). EHPA. Updated FISH Data
Suwannee Valley Nursing Center		427 15th Ave NW	Jasper	32052		P	0	0	20	20		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**76**	**76**	**0**	**4,555**			**-5**	**DEFICIT**			

HARDEE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bowling Green Elementary School	1 Multipurpose / Classroom	4530 Church Street	Bowling Green	33834	N	G	646	12,920		646	L	Built 2009. 2014 County Update
Bowling Green Elementary School	17 Cafeteria	4530 Church Street	Bowling Green	33834	N	G	0	0		106	L	2015 Co update. Post Impact Only
Bowling Green Elementary School	18 Classroom	4530 Church Street	Bowling Green	33834	N	G	105	2,103		105	L	2014 County Update
Hardee Jr.High / Hilltop Elementary	5	2401 US Highway 17 North	Wauchula	33873	N	G	344	6,885		344	L	
Hardee Jr.High / Hilltop Elementary	6	2401 US Highway 17 North	Wauchula	33873	N	G	523	10,479		523	L	
Hardee Jr.High / Hilltop Elementary	7	2401 US Highway 17 North	Wauchula	33873	N	G	411	8,223		411	L	
Hardee Jr.High / Hilltop Elementary	8	2401 US Highway 17 North	Wauchula	33873	N	G	452	9,054		452	L	
Hardee Jr.High / Hilltop Elementary	9	2401 US Highway 17 North	Wauchula	33873	N	G	563	11,272		563	L	
Hardee Jr.High / Hilltop Elementary	13	2401 US Highway 17 North	Wauchula	33873	N	G	859	17,197		859	L	
North Wauchula Elementary School	3 Classroom	1120 North Florida Avenue	Wauchula	33873	N	G	104	2,082		104	L	2014 County Update
South Florida State College	1st & 2nd Floor	2968 US Highway 17 North	Bowling Green	33834	N	P	0	0				SpNS Info provided below
Zolfo Springs Elementary School	2 Classroom	3215 Schoolhouse Road	Zolfo Springs	33890	N	G	348	6,978		348		EHPA
Zolfo Springs Elementary School	9 Media	3215 Schoolhouse Road	Zolfo Springs	33890	N	G	139	2,787		139	L	2014 County Update
Zolfo Springs Elementary School	10 Classroom	3215 Schoolhouse Road	Zolfo Springs	33890	N	G	193	3,870		220	L	
				TOTALS FOR HARDEE COUNTY			**4,687**	**93,850**	**0**	**4,820**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**4,687**	**2,167**	**2,520**	**93,850**			**50,510**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
South Florida State College	1st floor (110, 118 & 119) 2nd floor (202, 217 & 218)	2968 US 17 N	Bowling Green	33834	N	P	75	4,500		110		2014 County Update

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**75**	**36**	**39**	**4,500**			**2,340**	**SURPLUS**			

HENDRY

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Clewiston Central Elem School	Café	1000 South Dean Duff Ave	Clewiston	33440	R	G	0	0	365			
Clewiston Eastside Elem School		201 West Arroyo Avenue	Clewiston	33440		G	0	0				
Clewiston High School	100 Classroom	1501 South Francisco Street	Clewiston	33440	R	G	333	6,231		333	S-1467-2004	Bldg Subject to isolation. FFE above Flood Elevation per 2005 LRDM
Clewiston High School	800 Gymnasium	1501 South Francisco Street	Clewiston	33440	R	G	0	0	617			Per 2005 PBSJ LRDM needs fenestration and engineering study
Clewiston High School	900 Classroom	1501 South Francisco Street	Clewiston	33440	R	G	259	4,864		259	S-1467-2004	Bldg Subject to isolation. FFE above Flood Elevation per 2005 LRDM
Clewiston High School	1000 Resource	1501 South Francisco Street	Clewiston	33440	R	G	0	0	200			Per 2005 PBSJ LRDM needs fenestration and engineering study
Clewiston Middle School	27 Dining	601 West Osceola	Clewiston	33440	R	G	0	0	308			New FISH Data
Clewiston Middle School	30 Music	601 West Osceola Avenue	Clewiston	33440	R	G	166	2,972		166	S-1467-2004	dike issues?
Clewiston Middle School	31 / Gym / 5	601 West Osceola Avenue	Clewiston	33440	R	G	538	11,487		538	S-1467-2004	dike issues? NEW FISH
Clewiston Middle School	32 Classroom	601 West Osceola Avenue	Clewiston	33440	R	G	467	7,002		468	S-1467-2004	dike issues? NEW FISH
Clewiston Middle School	33 Classroom	601 West Osceola Avenue	Clewiston	33440	R	G	210	3,144		241	S-1467-2004	dike issues? NEW FISH
Clewiston Middle School	34 Classroom	601 West Osceola Avenue	Clewiston	33440	R	G	209	3,131		241	S-1467-2004	dike issues? NEW FISH
Clewiston Middle School	Gym	601 West Osceola	Clewiston	33440	N	G	500	11,314		500	L	Per Master List
Clewiston Westside ES	West	205 West Arroyo Avenue	Clewiston	33440	R	G	0	0	235			
Country Oaks Elem School	1 Admin / Clinic / Dining	2025 NW Eucalyptus Blvd	LaBelle	33935	R	G	0	0	267			
Felda Community Center		1050 CR 830	Felda	33930			0	0	106			
Harlem Community Civic Auditorium		2000 7th Street	Clewiston	33440			0	0	183			
Hendry County Health Department		1140 Pratt Boulevard	LaBelle	33935			0	0	0			
John Boy Auditorium	Beardsly Rm	1300 South WC Owens Ave	Clewiston	33440	R	G	78	1,564		0		per Shelter Study
LaBelle Civic Center		400 Hickpochee Avenue	LaBelle	33935		G	0	0	313			
LaBelle Elem School	5 Dining	West Cowboy Way	LaBelle	33935	R	G	0	0	282			
LaBelle Sr High School	2 PE	4050 East Cowboy Way	LaBelle	33935	R	G	0	0	282			
LaBelle Sr High School	3 Ticket	4050 East Cowboy Way	LaBelle	33935	N	G	0	0	371			
LaBelle Middle School	1 Classroom	8000 East Cowboy Way	Labelle	33935	R	G	201	3,012		215	S-1467-2004	FISH Data, Built 1996
LaBelle Middle School	2 Classroom	8000 East Cowboy Way	Labelle	33935	R	G	161	2,413		172	S-1467-2004	FISH Data, Built 1996
LaBelle Middle School	3 Dining	8000 East Cowboy Way	Labelle	33935	R	G	442	9,544		442	S-1467-2004	FISH Data, Built 1996
LaBelle Middle School	4 Ag Lab	8000 East Cowboy Way	Labelle	33935	R	G	334	5,730		334	S-1467-2004	FISH Data, Built 2000
LaBelle Middle School	5 Gymnasium	West Cowboy Way	LaBelle	33935	N	G	500	10,532		500	L	
LaBelle Middle School	6 Classroom	8000 East Cowboy Way	Labelle	33935	R	G	474	7,107		481	S-1467-2004	FISH Data, Built 2006
Pioneer Plantation Community Center		Panama Drive	Clewiston	33440	N	G	0	0	120			
Seminole Tribe of Florida	1				N	G	484	9,680		484	L	use only with prior agreement/tribe
Seminole Tribe of Florida	2				N	G	262	5,240		262	L	use only with prior agreement/tribe
Seminole Tribe of Florida	3				N	G	193	3,860		193	L	use only with prior agreement/tribe
Upthegrove, Edward A Elem School	23 Classroom	280 North Main Street	Labelle	33935	R	G	368	7,360		368	S-1467-2004	
VFW Post 10100		SR29	LaBelle	33935	R	G	84	1,680		0		per Shelter Study
TOTALS FOR HENDRY COUNTY							**6,263**	**117,867**	**3,649**	**6,197**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**6,263**	**3,285**	**2,978**	**117,867**			**52,167**	**SURPLUS**			

HENDRY

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
West Glades ES (Glades County)		2500 S. CR731	LaBelle	33935		P				75		combined w/ Glades in West Glades

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**0**	**204**	**-204**	**0**			**-12,240**	**DEFICIT**				

HERNANDO

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Brooksville Elementary School	2B	885 North Broad Street	Brooksville	34601	R	G	0	0	0			not retrofited, 2014 Fish Data
Brooksville Elementary School	8H	885 North Broad Street	Brooksville	34601	R	G	0	0	0			not retrofited, 2014 Fish Data
Central High School	30 Dining	14075 Ken Austin Parkway	Brooksville	34613	N	G	280	5,600	0	216	L	2014 Fish Data
Central High School	30 Hallway	14075 Ken Austin Parkway	Brooksville	34613	N	G	50	1,000	0	50	L	2014 Fish Data
Central High School	5e	14075 Ken Austin Parkway	Brooksville	34613		G	0	0	0			2014 Fish Data
Challenger K-8 School of Science & Math	1 (1st floor)	13400 Elgin Blvd	Spring Hill	34609-0401	N	G	2,750	47,169		2,750	L	2014 Fish Data
Challenger K-8 School of Science & Math	Gym 1st floor	13400 Elgin Blvd	Spring Hill	34609-0401		G	421	8,423		421		2014 Fish Data
Chocachatti Elementary School	3 Café	4135 California Street	Brooksville	34609		G	0	0	0			2013 Survey notes: needs Engineer Review / fenestraion protection
Chocachatti Elementary School	4 Classroom	4135 California Street	Brooksville	34609	N	G	0	0	221	194	L	2013 Survey notes: needs fenestraion protection (194 total noted spaces used by county)
Chocachatti Elementary School	5 Classroom	4135 California Street	Brooksville	34609	N	G	0	0	206	0	L	
Chocachatti Elementary School	6 Classroom	4135 California Street	Brooksville	34609		G	0	0	264			2013 Survey notes: needs Engineer Review / fenestraion protection
Christian Church of the Wild Woods	D					G	0	0		240		Red Cross Shelter Survey completed. HOST Shelter Only
Christ Lutheran Church	1	475 North Avenue West	Brooksville	34601		G	0	0	0			per master list
Deltona Elementary School	10 Classroom	2055 Deltona Boulevard	Springhill	34606		G	0	0				Evacuation Zone per County, updated FISH, 2013 Survey notes not in Cat 5 Surge Zone, needs Engineer Review / fenestraion protection
Deltona Elementary School	100	2055 Deltona Boulevard	Springhill	34606		G	0	0		58		Evacuation Zone per County, updated FISH, 2013 Survey notes not in Cat 5 Surge Zone, needs Enginnering Study & fenestraion protection
Deltona Elementary School	200 Classroom	2055 Deltona Boulevard	Springhill	34606		G	0	0	453	67		Evacuation Zone per County, updated FISH, 2013 Survey notes not in Cat 5 Surge Zone, needs fenestraion protection
Deltona Elementary School	300 Classroom	2055 Deltona Boulevard	Springhill	34606		G	0	0	312	64		Evacuation Zone per County, updated FISH, 2013 Survey notes not in Cat 5 Surge Zone, needs fenestraion protection
Deltona Elementary School	400 Classroom	2056 Deltona Boulevard	Spring Hill	34606		G	0	0	226	41		Evacuation Zone per County, updated FISH, 2013 Survey notes not in Cat 5 Surge Zone, needs fenestraion protection
Deltona Elementary School	500 Cafeteria	2056 Deltona Boulevard	Spring Hill	34606		G	0	0	195			Evacuation Zone per County, updated FISH, 2013 Survey notes not in Cat 5 Surge Zone, needs fenestraion protection
Deltona Elementary School	600 Auditorium	2055 Deltona Boulevard	Springhill	34606		G	0	0	106	61		Evacuation Zone per County, updated FISH, 2013 Survey notes not in Cat 5 Surge Zone, needs Engineer Review / fenestraion protection
Delores S Parott ES	2 Café	19220 Youth Drive	Brooksville	34601	R	G, A	0	0	414	326		2013 Survey notes needs Engineer Review / fenestration protection
Delores S Parott ES	3 Gym	19220 Youth Drive	Brooksville	34601	R	G, A	0	0	519			2013 Survey notes needs Engineer Review / fenestration protection
Delores S Parott ES	3 Gym	19220 Youth Drive	Brooksville	34601	R	G, A	0	0	0	341		HOST only
Eastside Elementary School	600 Auditorium	27151 Roper Drive	Springhill	34602		G	0	0	0			Built 1982. not retrofited
Eastside Elementary School	800 Classroom	27151 Roper Drive	Springhill	34602		G	0	0	0			Built 1990. not retrofited
Eastside Elementary School	900 Classroom	27151 Roper Drive	Springhill	34602		G	0	0	0			Built 1990. not retrofited
Explorer K-8	1 (1st Floor)	10252 Northcliffe Ave	Spring Hill	34608	N	G	2,750	63,350		1,545	L	2014 Fish Data
First United Methodist Church	1	18 South Broad Street	Brooksville	34601		G	0	0	0	240		Red Cross Shelter Survey completed. HOST Shelter Only

HERNANDO

Fox Chapel Middle School	300 Cafeteria	9412 Fox Chapel Lane	Springhill	34606	R	G	0	0	0	141	L	Built 1978. 2013 Survey notes not in Cat 5 Surge Zone
Hernando Sr High School	15	700 Bell Avenue	Brooksville	34601	R	G	0	0	26	0	L	2014 Fish Data
Hernando Sr High School	25 Gymnasium	700 Bell Avenue	Brooksville	34601		G	0	0	0	547		Built 1993. 2013 LRDM Survey: NO Fenestration Protection
Hernando Sr High School	31 Café	700 Bell Avenue	Brooksville	34601		G	483	9,665	0	483		Built 2007. 2014 Fish Data
John D Floyd ES	12 Classroom	3139 Dumont Ave	Springhill	34609	N	G	256	5,126		0	L	2013 Survey. Built 2007. 2014 Fish Data
John D Floyd ES	13 Classroom	3139 Dumont Ave	Springhill	34609	N	G	257	5,132		0	L	2013 Survey. Built 2007. 2014 Fish Data
Knights of Columbus	1	10470 Spring Hill Drive	Spring Hill	34608		G	0	0		30		Red Cross Shelter Survey completed. HOST Shelter Only
Moose Lodge 521	1	5214 Mariner Blvd.	Spring Hill	34609		G	0	0		108		Red Cross Shelter Survey completed. HOST Shelter Only
Moton Elementary School	100	7175 Emerson Road	Brooksville	34601	R	G	224	5,611		58	HB7121	totals based on FISH
Moton Elementary School	200 Classroom	7175 Emerson Road	Brooksville	34601	R	G	0	0	453	67		Built 1989. County uses hallways. 2013 Survey notes needs fenestration protection
Moton Elementary School	300 Classroom	7175 Emerson Road	Brooksville	34601	R	G	0	0	312	64	0	Built 1989. County uses hallways. 2013 Survey notes needs fenestration protection
Moton Elementary School	400 Classroom / Media	7175 Emerson Road	Brooksville	34601	R	G	0	0	226	61	L	Built 1989. County uses hallways. 2013 Survey notes needs fenestration protection
Moton Elementary School	500 Dining / Multi-Purpose	7175 Emerson Road	Brooksville	34601	R	G	0	0	195		L	Built 1989. County uses hallways. 2013 Survey notes needs fenestration protection
Nature Coast Tech High	2 Classroom	4057 California Street	Brooksville	34604	N	G	332	6,636	264	246	L, S	Built 2001. 2013 Survey notes needs fenestration protection on part of building
Nature Coast Tech High	3-Gym	4057 California Street	Brooksville	34604	N	G	607	11,696		607	L, S	Built 2001. EHPA. 2013 LRDM Survey
Pasco Hernando Community College	1E	450 Beverly Court	Spring Hill	34606	N	G	0	3,375	0	341	DOE	CAT 4/5 Surge Zone
Ridge Manor Community Center	1	34450 Cortez Blvd.	Brooksville	34604		G	0	0		132		Red Cross Shelter Survey completed. HOST Shelter Only
Springstead (Frank W) High School	12	3300 Maniner Boulevard	Springhill	34609		G	445	8,900		445		
Suncoast ES	500 Cafeteria	11135 Quality Dr.	Springhill	34609	N	G	202	4,035	201			Built 1994 / 2012. 2013 Retrofits completed. 2013 LRDM Survey
Suncoast ES	8 Clsrm (1st Flr)	11135 Quality Dr.	Springhill	34609	N	G	0	0	338	0	L	Built 2009. 2013 Survey notes needs fenestration protection
Winding Waters K-8	Dining	12240 Vespa Way	Weeki Wachee	34614	N	G	0	0	0	266	DOE	CAT 4/5 Surge Zone, updated FISH
Winding Waters K-8	Gym	12240 Vespa Way	Weeki Wachee	34614	N	G	0	0	0	378	DOE	CAT 4/5 Surge Zone, updated FISH
Weeki Wachee High School	1 (1st floor) Dining	12150 Vespa Way	Weeki Wachee	34614		G	0	0	0	576		CAT 4/5 Surge Zone, updated FISH
Weeki Wachee High School	2 (1st floor) Gym	12150 Vespa Way	Weeki Wachee	34614		G	0	0	0	731		CAT 4/5 Surge Zone, updated FISH
						TOTALS FOR HERNANDO COUNTY	**9,056**	**185,718**	**4,931**	**11,895**		

	Shelter Capacity In People	**Shelter Demand In People**	**Surplus/ Deficit In People**	**Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**			
Storm Category 4/5	**9,056**	**11,565**	**-2,509**	**185,718**			**-45,582**	**DEFICIT**			

HERNANDO

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
ARC Nature Coast Education Center	1	5283 Neff Lake Road	Brooksville	34601	N	P	66	3,960		66		Red Cross Shelter Survey completed.
Challenger K-8	1 Main-Multipurp / Din (1st flr only)	13400 Elgin Blvd	Spring Hill	34609		P	265	15,900		184	L	Built 2004/05. EHPA. SF based on LPU, no surge
Enrichment Center	1	800 John Gary Grubbs Blvd.	Brooksville	34601		P	80	4,800	0		L,S	Red Cross Shelter Survey completed.
West Hernando Middle School	6 Cafeteria	14325 Ken Austin Parkway	Brooksville	34613	N	P	0	0		178		Built 1982. Per 2012 LRDM Survey does not meet ARC 4496
West Hernando Middle School	8 Gymnasium	14325 Ken Austin Parkway	Brooksville	34613	N	P	0	0		213		Built 1993. Per 2012 LRDM Survey does not meet ARC 4496
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**411**	**44**	**367**	**24,660**			**22,020**	**SURPLUS**				

HIGHLANDS

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Agri-Civic Center		4505 George Blvd	Sebring			G	0	0	0		L	not surveyed, but shuttered
Apostolic Church of Jesus		956 Carolina Avenue	Avon Park	33825		G	0	0	0			
Avon Elementary School Cafeteria	10-Cafeteria	705 West Winthrop	Avon Park	33825	N	G	249	4,494	249	249	L	impact glass?
Avon Park High School	6-Cafeteria	700 East Main Street	Avon Park	33825	R	G	0	0	0	300	1508-2005	shuttered per county-what gauge?
Avon Park Middle School	5 Classroom	South Lake Avenue	Avon Park	33825	N	G	670	12,697	670	670	L	per EHPA list; New FISH Data
Avon Park High School	10	700 East Main Street	Avon Park	33825	N	G	567	11,334	567			per EHPA list
Avon Park Public Works		221 US 27 South	Avon Park	33825	N	G	365	8,600	365	365	S,L	
Avon Park Recreation		207 East State St	Avon Park	33825	N	G	554	13,040	554	554	S, L	
Cracker Trail Elementary School	4	8200 Sparta Road	Sebring	33870	R	G	200	4,418	200	200	1508-2005	shuttered per county; FISH Data
Emmanuel United Church		3115 Hope Street	Sebring	33872			0	0	0			
First Presbyterian Church - Lake Placid		117 North Oak Street	Lake Placid	33852			0	0	0			
First United Methodist Church		125 South Pine Street	Sebring	33879			0	0	0			
Fred Wild Elementary School cafeteria	13-cafeteria	1910 South Highlands Ave	Sebring	33870	N	G	249	4,820	249	249	L	need to confirm window protection
Highlands County Health Depat		7205 Georg Blvd	Sebring				0	0	0			
Hill / Gustat Middle School	9 Classroom	4700 Schumacher Road	Sebring	33870		G	738	11,077	738	750	L	per EHPA list; New FISH Data
Jack and Jill Child Care		738 Glenwood Avenue	Sebring	33879			0	0	0			
Lake County Elementary School		516 County Road 29	Lake Placid	33852			0	0	0			
Lake Placid Elementary School	6	101 Green Dragon Drive	Lake Placid	33852	N	G	225	5,633	225	200	L	New FISH Data
Lake Placid Senior High	2 Classroom	202 Green Dragon Dr	Lake Placid	33852	N	G	205	4,105	205			per EHPA list
Lake Placid Middle School	9 ESE Classroom	201 S Tangerine Dr	Lake Placid	33852	N	G	197	3,946	197			per EHPA list; New FISH Data
Memorial Elem School	2 Cafeteria	867 Memorial Drive	Avon Park	33825	N	G	235	6,318	235	235	L	needs Verification
Memorial Elem School	1 Classroom	868 Memorial Drive	Avon Park	33826	N	G	543	10,850	543			per EHPA list;needs Verification
Park Elementary School		327 East Palmetto	Avon Park	33825			0	0	0			
Reflection on Silver Lake		1850 US 27 South	Avon Park	33825			0	0	0			
Restoration Church		8475 Sparta Rd	Sebring				0	0	0			
Royal Care of Avon Park Rehab & Nursing Home		1281 West Stratford Road	Avon Park	33825			0	0	0			
Sebring Church of the Nazarene		318 South Commerce Ave	Sebring	33870			0	0	0			
Sebring Civic Center		681 Magnolia Ave	Sebring	33870	N	G	2,080	41,600			S-1621X	
Sebring Country Estates Civic Association		3240 Grand Prix Drive	Sebring	33872			0	0	0			
Sebring High School	8	3514 Kenilworth Blvd	Sebring	33870	N	G	220	4,660	220	220	L	no windows; New FISH
Sebring High School	13 Classroom	3514 Kenilworth Blvd	SEBRING	33870	N	G	750	12,345	750	750	L	per EHPA list; New FISH Data
Sebring Middle School		500 East Center	Sebring	33870		G	0	0	0			Newest bldg. yr 1979 per FISH?
Skate Center		125 Commerece	Lake Placid	33852		G	0	0	0			
South Florida Community College	A	600 West College Dr	Avon Park	33825	N	G	217	6,680	217	217	S-1395B	
St. Johns United Methodist Church		3214 Grand Prix Drive	Sebring	33872		G	0	0	0			
Sun'N Lake Elementary School		4515 Ponce De Leon	Sebring	33870		G	0	0	0			Bldg 4 - 4,142 SqFt; FISH Data
Temple Israel of Highlands County		1305 Hillside Drive	Sebring	33870		G	0	0	0			
The Elks - Lake Placid		200 CR 621 East	Lake Placid	33852		G	0	0	0			
Walker Memorial Seventh Day Adventist		1410 West Avon Blvd	Avon Park	33825		G	0	0	0			
Woodlawn Elementary School	2 Cafeteria	718 Fielder Boulevard	Sebring	33870	N	G	249	4,626	249	249	L	New FISH Data
						TOTALS FOR HIGHLANDS COUNTY	**8,513**	**171,243**	**6,433**	**5,208**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**8,513**	**11,553**	**-3,040**	**171,243**			**-59,817**	**DEFICIT**			

HIGHLANDS

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Highlands Agri-Civic Center (Bert J Harris Jr)		4505 George Blvd	Sebring	33875		P	75	4,500	42	122		not surveyed but shuttered
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	75	285	-210	4,500			-12,600	DEFICIT				

HILLSBOROUGH

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Adams Middle (EHPA)	11	10201 N. Boulevard	Tampa	33612	N	G	181	3,628		181	L, S	EHPA
Adams Middle (EHPA)	7 / Gym	10201 N. Boulevard	Tampa	33612	N	G	465	9,300		465	L, S	EHPA
Armwood HS (EHPA)	CFK	12000 US Hwy 92	Seffner	33584	N	G	800	16,000		800	L, S	EHPA
Barrington Middle (EHPA)		Fish Hawk Creek Area	Lithia	33547	N	G	1,500	30,000		1,500	L, S	EHPA
Bartels Middle (EHPA)	3,4	9020 Imperial Oaks Blvd	Tampa	33614	N	G	1,800	36,000		1,800	L, S	EHPA
Bartels Middle (EHPA)	CFK	9020 Imperial Oaks Blvd	Tampa	33647	N	G, A	540	10,800		540	L, S	EHPA
Bellamy Elementary (EHPA)	3	9720 Wilsky Blvd	Tampa	33615	N	G	0	0		500	L, S	2.7' SLOSH
Benito Elementary	2, 3, 6	10101 Cross Creek Blvd	Tampa	33647	R	G	1,811	36,220		1,811	HMGP	
Benito Elementary (EHPA)	CFK	10101 Cross Creek Blvd	Tampa	33647	N	G	400	8,000		400	L, S	EHPA
Bevis Elementary (EHPA)	2	5720 Osprey Ridge Dr	Lithia	33547	N	G	411	8,220		411	L, S	EHPA
Bevis Elementary (EHPA)	3	5720 Osprey Ridge Dr	Lithia	33547	N	G	411	8,220		411	L, S	EHPA
Bloomingdale High	13	1700 E. Bloomingdale Ave	Valrico	33594	R	G	828	16,560		828	S-1523	
Boyette Springs ES (EHPA)	16	10141 Sedgebrook Dr	Riverview	33569	N	G	500	10,000		500	L, S	EHPA
Brandon HS (EHPA)	New Addition	1101 Victoria ST	Brandon	33510	N	G	800	16,000		800	L, S	EHPA. 2006-2007
Brooker Elementary (EHPA)	CFK (Clsrm for Kids)	812 DeWolf Rd	Brandon	33511	N	G	500	10,000		500	L, S	EHPA
Bryant Elementary	CFK	13910 Nine Eagles Rd	Tampa	33626	N	G	0	0		800	L, S	4.2' SLOSH
Bryant Elementary (EHPA)	2, 3	13910 Nine Eagles Rd	Tampa	33626	N	G	0	0		1,169	L, S	4.2' SLOSH
Burnett Middle	1, 2, 3	1010 N. Kingsway Rd	Seffner	33584	R	G	1,328	26,560		1,328	HMGP	
Burnett Middle (EHPA)	CFK	1010 N. Kingsway Rd	Seffner	33584	N	G	340	6,800		340	L, S	EHPA
Canella Elementary (EHPA)	13	10707 Nixon Rd	Tampa	33624	N	G	500	10,000		500	L, S	EHPA
Carrollwood ES	18	3516 MACFARLAND ROAD	Tampa	33618	N	G	470	3,052		470		EHPA
Carver Center (EHPA)	2	2934 E. Hillsborough Ave	Tampa	33610	N	G	600	12,000		600	L, S	EHPA
Chiles Elementary (EHPA)	2	16541 Tampa Palms Blvd	Tampa	33647	N	G	729	14,580		729	L, S	EHPA
Chiles Elementary (EHPA)	3	16541 Tampa Palms Blvd	Tampa	33647	N	G	729	14,580		729	L, S	EHPA
Chiles Elementary (EHPA)	CFK (Clsrm for Kids)	16541 W. Tampa Palms Blv	Tampa	33647	N	G	500	10,000		500	L, S	EHPA. 2006-2007
Cimino Elementary	CFK (Clsrm for Kids)	4329 Culbreath Rd	Valrico	33594	N	G	500	10,000		500	L, S	EHPA
Cimino Elementary (EHPA)	2	4329 Culbreath Rd	Valrico	33594	N	G	1,556	31,120		1,556	L, S	EHPA
Collins ES (EHPA)	3	12424 Summerfield Blvd	Riverview	33569	N	G	1,968	39,357		1,968		EHPA
Cork Elementary (EHPA)	CFK (Clsrm for Kids)	3501 N. Cork Rd	Plant City	33565	N	G	500	10,000		500	L, S	EHPA
Corr Elementary (EHPA)	3,4	13020 Kings Lake Dr	Gibsonton	33534	N	G	0	0		890	L, S	4.7' SLOSH
Crestwood Elementary (EHPA)	CFK (Clsrm for Kids)	7824 N. Manhattan Ave	Tampa	33614	N	G	500	10,000		500	L, S	EHPA
Crestwood ES	13	7824 N. Manhattan Ave	Tampa	33614	R	G	995	19,900		995	S-1435A-2003	
Cypress Creek Elementary (EHPA)	CFK	4040 19th Ave N.E.	Ruskin	33570	N	G	540	10,800		540	L, S	EHPA
Deer Park ES (EHPA)	New School	11605 Citrus Park Dr	Tampa	33625	N	G	0	0		1,000	L, S	2006-2007, 3.6' SLOSH
Doby Elementary (EHPA)	2,3	6720 Covington Garden Dr	Apollo Beach	33572	N	G	1,600	32,000		1,600	L, S	EHPA
Durant High	1, 2, 3, 4, 5, 6, 7	4748 Cougar Path	Plant City	33567	R	G	2,116	42,320		2,116	HMGP	
Durant High	New Addition	4748 Cougar Path	Plant City	33567	N	G	800	16,000		800	LS	2006-2007
Edison Elementary	5	1607 E. Curtis St	Tampa	33610	R	G	0	0		0	S-1467-2004	Cancelled
Edison Elementary	6	1607 E. Curtis St	Tampa	33610	R	G	0	0		0	S-1467-2004	Cancelled
Eisenhower Middle (EHPA)	5-Gym	7620 Big Bend Rd	Gibsonton	33534	N	G	485	9,700		485	L, S	
Eisenhower MS	2				R	G	0	0		0	S-1508-2005	Cancelled
Eisenhower MS	5				R	G	0	0		0	S-1508-2005	Cancelled
Essrig Elementary	10	13031 Lynn Rd	Tampa	33624	N	G	441	8,820		441	L, S	
Fish Hawk Elementary (EHPA)	2	16815 Dorman Rd	Lithia	33547	N	G	725	14,500		725	L, S	EHPA
Fish Hawk Elementary (EHPA)	3	16815 Dorman Rd	Lithia	33547	N	G	725	14,500		725	L, S	EHPA
Forest Hills Elementary	10 ESE	10112 N. Ola Ave	Tampa	33612	R	G	646	12,920		646	S-1467-2004	
Forest Hills Elementary	11 Music	10112 N. Ola Ave	Tampa	33612	R	G	0	0		0		
Forest Hills Elementary	CFK (Clsrm for Kids)	10112 N. Ola Ave	Tampa	33612	N	G	500	10,000		500	L, S	EHPA
Freedom High (2003)	3	17410 Commerce Park Blvd	Tampa	33647	R	G	0	0		0	S-1467-2004	Cancelled
Freedom High (2003)	6	17410 Commerce Park Blvd	Tampa	33647	R	G	0	0		0	S-1467-2004	Cancelled
Freedom High (2003)	9	17410 Commerce Park Blvd	Tampa	33647	R	G	0	0		0	S-1467-2004	Cancelled
Freedom High (2003)	10	17410 Commerce Park Blvd	Tampa	33647	R	G	0	0		0	S-1467-2004	Cancelled

HILLSBOROUGH

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Frost ES	3	3950 S Faulkenburg Rd	Riverview	33569	N	G	0	0		356		7.8' SLOSH
Frost ES	4	3950 S Faulkenburg Rd	Riverview	33569	N	G	0	0		422		7.8' SLOSH
Giunta Middle School	1	4202 S Faulkenburg Rd	Riverview	33569	N	G	0	0		3,537		6.8' SLOSH
Greco Middle (EHPA)	Gym	6925 E. Fowler	Temple Terrace	33617	N	G	437	8,740		800	L, S	
Hillsborough Comm College at the Regent	1	6437 Watson Rd	Riverview	33578	N	P	0	0		0		see SpNS Below
Hammonds ES	New School	8008 N. Mobley RD	Odessa	33556	N	G	1,200	24,000		1,200	L, S	2006-2007
Heritage Elementary	3, 4	10900 Cross Creek Blvd	Tampa	33647	N	G	1,535	30,700		1,535	L, S	EHPA
Ippolito Elementary	2	6874 S. Falkenburg Rd	Riverview	33569	N	G				1,458	L, S	8.7' SLOSH. EHPA
Ippolito Elementary	3	6874 S. Falkenburg Rd	Riverview	33569	N	G						
Jennnings Middle	3, 4	8799 Williams Rd	Seffner	33584	N	G	2,049	40,980		2,049	L, S	EHPA
Kingswood Elementary	CFK (Clsrm for Kids)	3102 S. Kings Ave	Brandon	33511	N	G	500	10,000		500	L, S	EHPA
Knights Elementary	CFK (Clsrm for Kids)	4815 N. Keene Rd	Plant City	33565	N	G	500	10,000		500	L, S	EHPA
Lake Magdalene ES	CFK (Clsrm for Kids)	2002 Pine Lake Dr	Tampa	33612		G	500	10,000		500	L, S	EHPA
Lake Magdelene ES	14	2002 Pine Lake Dr	Tampa	33612	R	G	455	9,100		455	S-1435A-2003	
Lennard HS	2	2002 Shell Point Road	Ruskin	33570	N	G	0	0		256		2.5' SLOSH. EHPA
Lennard HS	7	2002 Shell Point Road	Ruskin	33570	N	G	0	0		415		2.5' SLOSH. EHPA
Lennard HS	8	2002 Shell Point Road	Ruskin	33570	N	G	0	0		269		2.5' SLOSH. EHPA
Lewis Elementary	9	6700 E. Whiteway Dr	Temple Terrace	33617	R	G	297	5,940		297	S-1467-2004	
Liberty Middle	7 Gym	17400 Commercr Park Blvd	Tampa	33647	R	G	0	0		0	S-1467-2004	Cancelled
Limona ES	9	1115 TelFair	Brandon	3350	R	G	184	3,680		184	S-1435A-2003	
Lockhart Elementary	2	3719 N. 17th St	Tampa	33610	R	G	0	0		0	not done in S-1435A-2003	Decommissioned, escape sreens falling off
Lockhart Elementary	5	3719 N. 17th St	Tampa	33610	R	G	1,474	29,480		408	S-1435A-2003	
Lomax Elementary (EHPA)	4	4207 N. 26th St	Tampa	33610	N	G	465	9,300		465	L, S	EHPA
Mann MS	Gym				R	G	0	0		0		
Marshall Middle	13	18 S. Maryland Ave	Plant City	33563	R	G	225	4,500		225	S-1523	
Marshall Middle	CFK	18 S. Maryland Ave	Plant City	33563	N	G	400	8,000		400	L, S	EHPA
Martinez Middle	3	5601 Lutz Lake Fern Rd	Lutz	33558	R	G	948	18,960		948	S-1467-2004	
Martinez Middle	4	5601 Lutz Lake Fern Rd	Lutz	33558	R	G	958	19,160		958	S-1467-2004	
McLane MS	9 **Gymnasium**	306 North Knights Ave	Brandon	33510	R	G	0	0		0	S-1508-2005	Cancelled
McLane MS	20 Classroom	306 North Knights Ave	Brandon	33610	R	G	1,071	21,420		1,071	S-1435A-2003	
McKitrick Elementary	2, 3	5503 Lutz Lake Fern Rd	Lutz	33549	N	G	1,451	29,020		1,451	L, S	EHPA
McKitrick Elementary	CFK (Clsrm for Kids)	5503 Lutz Lake fern rd	Lutz	33549	N	G	800	16,000		800	L, S	EHPA
Memorial Middle	Gym	4702 N. Cent	Tampa	33603	R	G	465	9,300		800	S-1523 / S-1435A	
Mendenhall Elementary	CFK (Clsrm for Kids)	5202 Mendenhall Dr	Tampa	33603	N	G	0	0		500	L, S	4.1' SLOSH. EHPA
Middleton High	2, 3	4801 North 22nd Street	Tampa	33610	N	G	2,298	45,960		2,298	L, S	EHPA
Mort Elementary	4	1806 E. Bearss Ave	Tampa	33613	R	G	0	0		0	S-1467-2004	Cancelled
Mort Elementary	CFK (Clsrm for Kids)	1806 E. Bearss Ave	Tampa	33613	N	G	500	10,000		500	L, S	EHPA
Muller Elementary	4	13615 N. 22nd St	Tampa	33613	N	G	310	6,200		310	L, S	EHPA
Mulrennan Middle	2, 4, 6	4215 Durant Rd	Valrico	33594	N	G	2,250	45,000		2,250	L, S	EHPA
Nelson Elementary	2, 3	5413 Durant Rd	Dover	33527	N	G	1,610	32,200		1,610	L, S	EHPA
Nelson Elementary	CFK	5413 Durant Rd	Dover	33527	N	G	540	10,800		540	L, S	EHPA
Newsome High	2, 7, 8	16550 Fish Hawk Blvd	Lithia	33547	N	G	1,586	31,720		1,586	L, S	EHPA
Oak Park ES	New School	4322 E. Ellicott ST	Tampa	33610	N	G	1,000	20,000		1,000	L, S	2006-2007 EHPA
Pizzo Elementary	2, 3, 4	11701 Bull Run Rd	Tampa	33617	R	G	1,595	31,900		1,595	S-1523	
Plant Sr High School	13	1 Raider Pl	Plant City	33566	R	G	399	7,980		399	S-1523	
Potter Elementary	11	3224 E. Cayuga St	Tampa	33610	R	G	253	5,060		253	S-1467-2004	
Potter Elementary	13	3224 E. Cayuga St	Tampa	33610	R	G	253	5,060		253	S-1467-2004	
Pride Elementary	3,4	18271 Kinnan St	Tampa	33647	N	G	1,114	22,280		1,114	L, S	EHPA
Pride Elementary	CFK	10310 Lions Den Dr	Tampa	33647	N	G	400	8,000		400	L,S	EHPA

HILLSBOROUGH

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Randall Middle	1, 3	16510 Fish Hawk Blvd	Lithia	33547	R	G	813	16,260		813	HMGP	
Reddick ES	3, 4	325 West Lake Dr	Wimauma	33598	N	G	1,350	27,000		1,350	L, S	EHPA
Riverview High, Building #10	10	11311 Boyette Rd	Riverview	33569	R	P	350	7,000		350	L, S	
Riverview HS	5	11311 Boyette Rd	Riverview	33569	R	G	0	0		0	HMGP	Never retrofitted
Robinson ES	12	4801 S. Turkey Creek Rd	Plant City	33567	R	G	404	8,080		563	S-1435A-2003	
Robles ES	15	4405 E. Sligh Ave	Tampa	33610	R	G	351	7,020		351	S-1435A-2003	
Robles ES	16	4405 E. Sligh Ave	Tampa	33610	R	G	171	3,420		171	S-1435A-2003	
Rodgers Middle	1, 2, 3	11910 Tucker Rd	Riverview	33569	R	G	0	0		0	S-1543 & S1435A	Decommissioned, escape sreens falling off
Schmidt Elementary	3	1250 Williams Rd	Brandon	33510	N	G	890	17,800		890	L, S	
Sessums Elementary	2, 3	11525 Ramble Creek Dr	Riverview	33569	N	G	1,564	31,280		2,099	L, S	EHPA
Sheehy Elementary	4	N. 40th St	Tampa	33610	N	G	996	19,920		625	L, S	EHPA
Shields Middle	3	3908 N.E. 19th Ave	Ruskin	33570	N	G	675	13,500		1,025	L, S	EHPA
Shields Middle	4	3908 N.E. 19th Ave	Ruskin	33570	N	G	675	13,500		1,025	L, S	EHPA
Shields MS CFK	CFK	3908 N.E. 19th Ave	Ruskin	33573	N	G, A	540	10,800		540	L, S	EHPA
Sickles High	3,7	7950 Gunn Hwy	Tampa	33626	R	G	961	19,220		961	S-1543	
Sickles HS CFK	CFK	7950 Gunn Hwy	Tampa	33626	N	G	540	10,800		720	L, S	EHPA
Simmons Center	1	901 South Evers St	Plant City	33566	N	G	388	7,760		425	L, S	EHPA
Sligh MS	15	2011 E. Sligh Ave	Tampa	33610	R	G	312	6,240		589	S-1435A-2003	
Smith Middles (EHPA)	3, 4	14303 Citrus Pointe Dr	Tampa	33625	N	G, A	1,350	27,000		1,350	L,S	
SPOTO HIGH SCHOOL	3	8538 EAGLE PALM DRIVE	Riverview	33569	N	G	0	0		820		6.7' SLOSH
SPOTO HIGH SCHOOL	4	8538 EAGLE PALM DRIVE	Riverview	33569	N	G	0	0		1,347		6.7' SLOSH
Springhead Elementary	CFK (Clsrm for Kids)	3208 Nesmith Rd	Plant City	33566	N	G	500	10,000		500	L, S	EHPA
Steinbrenner High		5575 W Lutz Lake Fern Rd	Lutz	33558	N	G	1,500	30,000		1,500	L, S	EHPA
Stowers Elementary		13915 Barrington Stowers D	Lithia	33547	N	G	1,250	25,000		1,250	L, S	EHPA
Strawberry Crest High		4691 Gallagher Rd	Dover	33527	N	G, A	1,500	30,000		1,500	L, S	EHPA
Sulphur Springs ES	1	8412 N. 13th St	Tampa	33604	R	G	867	17,340		1,534	S-1435A-2003	
Summerfield Crossings ES	New School	Fairway Meadows Drive	Riverview	33569	N	G	1,200	24,000		1,200	L, S	2006-2007 EHPA
Summerfield ES CFK	CFK	11990 Big Bend Rd	Riverview	33569	N	G	400	8,000		540	L, S	EHPA
SYMMES ELEMENTARY	3	6280 WATSON ROAD	Riverview	33569	N	G	350	7,002		350		
SYMMES ELEMENTARY	4	6280 WATSON ROAD	Riverview	33569	N	G	337	6,749		337		
Tampa Bay Blvd ES	CFK (Clsrm for Kids)	3111 Tampa Bay Blvd	Tampa	33607	N	G	800	16,000		800	L, S	EHPA
Tampa Bay Blvd. Elementary	3	3111 Tampa Bay Blvd	Tampa	33607	R	G	0	0		0	not done in S-1467-2004	Cancelled
Tampa Bay Blvd. Elementary	4	3111 Tampa Bay Blvd	Tampa	33607	R	G	0	0		0	not done in S-1467-2004	Cancelled
Tampa Bay Blvd. Elementary	6	3111 Tampa Bay Blvd	Tampa	33607	R	G	226	4,520		226	S-1467-2004	
Tampa Palms ES	CFK (Clsrm for Kids)	6100 Tampa Palms Blvd	Tampa	33647	N	G	500	10,000		500	L, S	EHPA
Temple Terrace ES	CFK (Clsrm for Kids)	124 Flotto Ave	Temple Terrace	33617	N	G	500	10,000		500	L, S	2006-2007 EHPA
Tomlin Middle	10	501 N. Wilson St	Plant City	33563	R	G	439	8,780		439	S-1523	
Tomlin Middle	CFK	501 N. Woodrow Wilson St	Plant City	33567	N	G	540	10,800		540	L, S	EHPA
Turkey Creek Middle	8	5005 S. Turkey Creek Rd	Plant City	33567	R	G	594	11,880		594	S-1523	
Turner ES	2	9190 Imperial Oak Blvd	Tampa	33614	N	G	349	6,972		349		EHPA
Turner ES	3	9190 Imperial Oak Blvd	Tampa	33614	N	G	340	6,792		340		EHPA
USF Sun Dome		4202 E. Fowlwr Ave	Tampa	33620	R	P	500	10,000		0	L, S FY 10/11 1617	Scheduled to be on-line June 2014
Valrico ES	3 (1st flr)	609 S. Miller Rd	Valrico	33594	R	G	423	8,460		423	S-1435A-2003	
Valrico ES	4 (1st flr)	609 S. Miller Rd	Valrico	33594	R	G	480	9,600		480	S-1435A-2003	
Valrico ES CFK	CFK	609 S. Miller Rd	Valrico	33594	N	G	540	10,800		540	L, S	EHPA
Walden Lake ES CFK	CFK	2800 S. Turkey Creek Rd	Plant City	33566	N	G	540	10,800		720	L, S	EHPA
Walker Middle Magnet School	2	8282 N. Mobley Rd	Odessa	33556	R	G	0	0		1,527	S-1435A-2003	2013 - Window protection removed during renovation, per County

HILLSBOROUGH

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Walker Middle Magnet School	3	8282 N. Mobley Rd	Odessa	33556	R	G	0	0		300	S-1523	2013 - Window protection removed during renovation, per County
Wharton High	2, 3, 4, 9	20150 Bruce B. Downs Blvd	Tampa	33647	R	G	0	0			S-1523	Decommissioned, Bats in Fabric, Shutters removed
Wharton HS CFK	CFK	20150 Bruce B. Downs Blvd	Tampa	33647	N	G	540	10,800		720	L, S	
Whitley Bowers Career Center	7 (1?)	13609 N. 22nd St	Tampa	33613	N	G	275	5,500		275	L, S	EHPA
Williams MS	2	5020 N. 47th	Tampa	33610	R	G	364	7,280		650	S-1435A-2003	
Wilson ES	3	702 English St	Plant City	33563	R	G	648	12,960		721	S-1435A-2003	
Young MS	8	1807 E. Dr. MLK Blvd	Tampa	33610	R	G	629	12,580		527	S-1435A-2003	
						TOTALS FOR HILLSBOROUGH COUNTY	**90,223**	**1,798,112**	**0**	**107,862**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**90,223**	**52,316**	**37,907**	**1,798,112**			**751,792**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Erwin Tech Center	Entire Bldg	2010 E. Hillsborough Ave	Tampa	33610			0	0	500			Has unreinforced walls and fenestration per Master Consulting Eng, INC Study June 15, 2015
Hillsborough Comm College at the Regent	1	6437 Watson Rd	Riverview	33578	N	P	230	13,852		230	L, S	HMGP
Riverview HS	10	11311 Boyette Rd	Riverview	33569	N	P	350	21,000		400	L, S	
Riverview HS	CFK	11311 Boyette Rd	Riverview	33569	N	P	400	8,000		400	L, S	Genset being moved from Bldg 10, no surge. EHPA
USF Sun Dome		4202 E. Fowler Ave	Tampa	33620	R	P	1,500	90,000		1,000		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**2,480**	**2,927**	**-447**	**148,800**			**-26,820**	**DEFICIT**			

HOLMES

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bethleham School	1	2667 Hwy 160	Bonifay	32425			0	0	1,905	1,905		44,859 sqft per FISH
Bonifay Middle School	5 & 7	401 McLaghlin Avenue	Bonifay	32425					356	356		Per FISH: Bldg 5 1983; Bldg 7 2004 (too small)
Holmes County Agricultural Center		Rt 1 Box 408 Hwy 90 E	Bonifay	32425			0	0	0	436		
Holmes Sr High School	1	825 West Hwy 90	Bonifay	32425			0	0	0	942		44,797 sqft per FISH 1989
New Hope VFD		1243 Hwy 179-A	Westville	32464	R	G	179	3,585		179	L, S F (EMPA)	open
Ponce De Leon Elementary School	5 Classroom	1473 Ammons Road	Ponce de Leon	32455			0	0	0	195		4,056 sqft per FISH 1993
Ponce De Leon High School	1 Main	1477 Ammons Road	Ponce de Leon	32425			0	0	515	515		28,165 sqft per FISH 1988
Poplar Springs HS	3 Gym	3726 Atomic Drive	Graceville	32440	N	G, P	796	11,942		1,045		EHPA
Poplar Springs HS	4 Classrooms	3726 Atomic Drive	Graceville	32440			0	0				not EHPA
Poplar Springs HS	5 Classrooms	3726 Atomic Drive	Graceville	32440			0	0				not EHPA
Poplar Springs HS	6 Classrooms	3726 Atomic Drive	Graceville	32440			0	0				not EHPA
Poplar Springs HS	7 - Cafeteria	3726 Atomic Drive	Graceville	32440	N	G	357	5,361		534	L	EHPA update per FISH
				TOTALS FOR HOLMES COUNTY			**1,332**	**20,888**	**2,776**	**6,107**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**1,332**	**991**	**341**	**20,888**			**1,068**	**SURPLUS**				

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Poplar Springs HS	3 Gym	3726 Atomic Drive	Graceville	32440	N	P	38	2,280		38		Total Bldg. per FISH 14,222 sqft 300 Kohler Generator

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**38**	**121**	**-83**	**2,280**			**-4,980**	**DEFICIT**				

INDIAN RIVER

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Fellsmere Elementary School	700	50 North Cypress Street	Fellsmere	32948	R	G	490	11,400	0	570	HMGP	Update Per FISH
Fellsmere Elementary School	1-Dining / Stage	50 North Cypress Street	Fellsmere	32948		G	0	0	102	102		
Fellsmere Elementary School	1-Music Room	50 North Cypress Street	Fellsmere	32948		G	0	0	31	31		
Fellsmere Elementary School	1-Classrooms / Corridors	50 North Cypress Street	Fellsmere	32948		G	0	0	905	905		
Gifford Middle School	600 Band / Chorus	2726 45th Street	Vero Beach	32967	R	G	159	3,180	0	159	HMGP	Update Per FISH
Gifford Middle School	1200-Dining	2726 45th Street	Vero Beach	32967	R	G	168	3,360	0	168	HMGP	Need ASCE7 certf?? New FISH
Gifford Middle School	15-Gym	2726 45th Street	Vero Beach	32967		G	0	0	0			11,711 sqft built 2005 per FISH, no surge
Glendale Elementary School	3-Dining/Stage	4940 8th Street	Vero Beach	32960		G	0	0	107	107		7,514 sqft built 1987 per FISH Remove?
Glendale Elementary School	3-Music Lab	4940 8th Street	Vero Beach	32960		G	0	0	40	40		
Glendale Elementary School	4-Multipurpose	4940 8th Street	Vero Beach	32960		G	0	0	44	44		5,524 sqft built 1987 per FISH Remove?
Indian River Academy (Highlands Elementary School)	1-Dining / Stage	500 SW 20th Street	Vero Beach	32962		G	0	0	106	106		7,713 sqft built 1987 per FISH Remove?
Indian River Academy (Highlands Elementary School)	1-Multipur.	500 SW 20th Street	Vero Beach	32962		G	0	0	44	44		
Indian River Academy (Highlands Elementary School)	1-Music Room	500 SW 20th Street	Vero Beach	32962		G	0	0	40	40		
Indian River Academy (Highlands Elementary School)	2-Classrooms / Corridors	500 SW 20th Street	Vero Beach	32962		G	0	0	415	415		6,198 sqft built 1987 per FISH Remove?
Indian River Academy (Highlands Elementary School)	3-Classrooms / Corridors	500 SW 20th Street	Vero Beach	32962		G	0	0	404	404		6,698 sqft built 1987 per FISH Remove?
Liberty Magnet School	All	6850 81st Street	Vero Beach	32967		G, A	184	3,680	0	184		Pet Friendly Shelter. 2015 added by Co
Osceola Magnet School	1-MultPur.	1110 18th Avenue SW	Vero Beach	32962	R	G	0	0	47	47		18,819 sqft built 1982 per FISH Bldg.1
Osceola Magnet School	1-Dining / Stage	1110 18th Avenue SW	Vero Beach	32962		G	111	2,228	111	111		2015 added by Co
Osceola Magnet School	1-Music Room	1110 18th Avenue SW	Vero Beach	32962		G	0	0	32	32		
Osceola Magnet School	1-Classrooms / Corridors	1110 18th Avenue SW	Vero Beach	32962		G	0	0	701	701		
Osceola Magnet School	2-Classrooms / Corridor	1110 18th Avenue SW	Vero Beach	32962		G	0	0	218	218		
Oslo Middle School	200-Classrms / Corr	480 SW 20th Street	Vero Beach	32962	R	G	579	10,808	0	579		Update Per FISH
Oslo Middle School	500-Music Suite	480 SW 20th Street	Vero Beach	32962	R	G	158	3,160	0	158	HMGP	Update Per FISH
Oslo Middle School	600-Cafetorium	480 SW 20th Street	Vero Beach	32962	R	G	243	4,860	0	243	HMGP	Update Per FISH
Oslo Middle School	700-Classrms / Corr	480 SW 20th Street	Vero Beach	32962	R	G	579	10,718	0	579	HMGP	Update Per FISH
Oslo Middle School	900-Classrms / Corr	480 SW 20th Street	Vero Beach	32962	R	G	580	10,699	0	580	HMGP	Update Per FISH
Oslo Middle School	800-Gym	480 SW 20th Street	Vero Beach	32962		G	0	0	0	0	HMGP	13,403 sqft built 1994 per FISH Remove?
Pelican Island Elementary School	1-Classrooms / Corridors	1355 Schumann Drive	Sebastian	32958		G	0	0	914	914	HMGP	Campus total 26,057 sqft per FISH
Pelican Island Elementary School	1-Dining Area / Stage	1355 Schumann Drive	Sebastian	32958		G	0	0	0	102		
Pelican Island Elementary School	1-MultiPur.	1355 Schumann Drive	Sebastian	32958	R	G	0	0	0	0		
Pelican Island Elementary School	1-Music Room	1355 Schumann Drive	Sebastian	32958		G	0	0	31	31		
Sebastian Elementary School	1-Dining/Stage	401 Sebastian Boulevard	Sebastian	32958			0	0	0	0		

INDIAN RIVER

Sebastian Elementary School	1-MultiPur.	402 Sebastian Boulevard	Sebastian	32958			0	0	49	49		
Sebastian Elementary School	1-Music Room	403 Sebastian Boulevard	Sebastian	32958			0	0	31	31		
Sebastian Elementary School	1-Clsrms / Cor	404 Sebastian Boulevard	Sebastian	32958			0	0	225	225		
Sebastian Elementary School	6-Clsrms / Cor	405 Sebastian Boulevard	Sebastian	32958			0	0	394	394		
Sebastian Elementary School	7-Clsrms / Cor	406 Sebastian Boulevard	Sebastian	32958			0	0	396	396		
Sebastian Elementary School	8-Clsrms / Cor	407 Sebastian Boulevard	Sebastian	32958			0	0	375	375		
Sebastian Elementary School	9-Clsrms / Cor	407 Sebastian Boulevard	Sebastian	32958			371	7,420	0	371	HMGP	
Sebastian River High School	1 A-wing Auditorium	9001 90th Avenue	Sebastian	32958	R	G	410	8,209	0	0	HMGP	DEM Update Per FISH (2014)
Sebastian River High School	2 B-wing Music	9001 90th Avenue	Sebastian	32958	R	G	236	4,722	0	0		DEM Update Per FISH (2014)
Sebastian River High School	3 C-wing Classroom	9001 90th Avenue	Sebastian	32958	R	G	217	4,340	0	217		County Update 2014
Sebastian River High School	6 F-wing Classroom	9001 90th Avenue	Sebastian	32958	R	G	306	6,124	0	145		DEM Update Per FISH (2014)
Sebastian River High School	7 G-wing Classroom	9001 90th Avenue	Sebastian	32958	R	G	109	2,180	0	109	HMGP	County Update 2014
Sebastian River High School	5 E-wing Gymnasium	9001 90th Avenue	Sebastian	32958		G	0	0	0	0		County Update 2014
Sebastian River High School	9 J-wing Cafeteria	9001 90th Avenue	Sebastian	32958	R	G	289	5,780	0	289		County Update 2014
Sebastian River High School	K-Classroom	9001 90th Avenue	Sebastian	32958	R	G	185	3,700	0	185	HMGP	County Update 2014
Sebastian River High School	11 L-wing Vo-Classroom	9001 90th Avenue	Sebastian	32958	R	G	83	1,660	0	83	HMGP	County Update 2014
Sebastian River High School	12 M-wing Classroom	9001 90th Avenue	Sebastian	32958	R	G	298	5,960	0	298	HMGP	County Update 2014
Sebastian River High School	13 N-wing Admin / Clsrm	9001 90th Avenue	Sebastian	32958	R	G	347	6,932	0	97	HMGP	DEM Update Per FISH (2014)
Sebastian River High School	21 V-wing Classroom	9001 90th Avenue	Sebastian	32958	R	G	684	13,682	0	324	HMGP	DEM Update Per FISH (2014)
Sebastian River Middle School	All	9400 CR 512	Sebastian	32958	R	G	1,499	29,980	0	1,499	HMGP	Update Per FISH
Sebastian River Middle School	8-Gym	9400 CR 512	Sebastian	32958		G	0	0	0	300	HMGP	
Sebastian Senior (Adult Day Care) Center	Center	815 Davis Str	Sebastian	32958	R	G	140	2,800	0	140	HMGP	
Storm Grove Middle School	2 ESE / Classroom	6400 57th Street	Vero beach	32958		G	0	0		124		
Storm Grove Middle School	3 Classrom	6400 57th Street	Vero beach	32958		G	0	0		124		Built 2009
Storm Grove Middle School	4 Classroom	6400 57th Street	Vero beach	32958		G	0	0		124		Built 2009
Storm Grove Middle School	5 Gym / Music	6400 57th Street	Vero beach	32958		G	0	0		0		Built 2009. County Update 2014
Vero Beach Elementary School	2 ESE / Classroom	1770 12th Street	Vero Beach	32960		G	0	0		1,578		County / DOE FISH Update 2014
Vero Beach Elementary School	3 Classrom	1770 12th Street	Vero Beach	32960		G	0	0		515		DOE FISH Update 2014
Vero Beach Elementary School	4 Multipurpse / Dining	1770 12th Street	Vero Beach	32960			0	0				DOE FISH Update 2014
Vero Beach HS Freshman Learning Center	All	1507 19th Street	Vero Beach	32960	R	G	1,499	29,980	0	1,499	S-1543	Update Per FISH bldg.1 parcel 1
Vero Beach HS Freshman Learning Center	Gym	1507 19th Street	Vero Beach	32960		G	0	0	0	304		County Update 2014
							TOTALS FOR INDIAN RIVER COUNTY	**9,925**	**197,562**	**5,762**	**17,409**	

	Shelter Capacity In People	**Shelter Demand In People**	**Surplus/ Deficit In People**	**Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**			
Storm Category 4/5	**9,925**	**5,805**	**4,120**	**197,562**			**81,462**	**SURPLUS**			

Special Needs Storm Shelters

INDIAN RIVER

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Treasure Coast ES (Old Liberty Magnet)	All	8955 85th Street	Sebastian	32958	R	P, A	582	30,000		500		per master list. Primary
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**582**	**501**	**81**	**34,920**			**4,860**	**SURPLUS**				

JACKSON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Cottondale High School	1 Classroom	2680 Levy Street	Cottondale	32431			0	0				Built 2000 (FISH)
Graceville Civic Center		Highway 169	Graceville	32440			0	0				
Graceville High School	2 Classroom	5539 Brown Street, Hwy 77	Graceville	32440			0	0				Built 2001 (FISH)
Grand Ridge High School	80 Gymnasium	6925 Florida Street	Grand Ridge	32442			0	0				Built 1996 (FISH)
Marianna High School		2979 Daniels Street	Marianna	32446								
Marianna High School (new)	Area A	3546 Caverns Road	Marianna	32446	N	G	354	8,355		354		Updated FISH
Marianna High School (new)	Area B	3546 Caverns Road	Marianna	32446	N	G	1,356	20,338		1,429		partly SpNS (Total=22,318sf per FISH)
Marianna High School (new)	Area C	3546 Caverns Road	Marianna	32446	N	G	284	6,649		284		Updated FISH Data
Marianna High School (new)	Area D / D1	3546 Caverns Road	Marianna	32446	N	G	469	11,725		354		Updated FISH Data
Marianna High School (new)	Area E	3546 Caverns Road	Marianna	32446	N	G	253	4,770		253		Updated FISH Data
Marianna High School (new)	Area F / F1	3546 Caverns Road	Marianna	32446	N	G	616	15,391		228		Updated FISH Data
Sunland Center- Marianna	Residence Bldgs	3700 Williams Drive	Marianna	32446			0	0		360		host only
Sunland Center- Marianna	Non-Residence	3700 Williams Drive	Marianna	32446			0	0		395		host only
Chipola Junior College	PSC		Marianna	32446	R	G	499	9,980		499	F,S	capacity per ARMOR
Family Service Center	1				R	G	0	0			F,S	
Golson ES	East				R	G					F,S	
Golson ES	West				R	G					F,S	
Malone SHS	14		Malone		R	G						
Graceville HS	2 Classroom		Graceville		R	G	0	0				
						TOTALS FOR JACKSON COUNTY	**3,831**	**77,208**	**0**	**4,156**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**3,831**	**1,757**	**2,074**	**77,208**			**42,068**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Marianna HS (new)	Area B (part)	3546 Caverns Road	Marianna	32446		P	33	1,980		33		Updated FISH Data. 600 KW Gnerator (DO

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**33**	**143**	**-110**	**1,980**			**-6,600**	**DEFICIT**			

JEFFERSON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
First Baptist Church		325 West Washington St	Monticello	32344			0	0	100			
First United Methodist Church		325 West Walnut Street	Monticello	32344			0	0	75			
Jefferson County High School		555 Tiger Lane	Monticello	32344					300			
Mormon Church		Spring Hollow Road	Monticello	32344			0	0	40			
Jefferson County Middle / Sr. High (NEW)	8 Gym & Café	50 David Rd	Monticello	32344	N	G	809	15,231		809	L	Built 2003. Updated FISH Data
				TOTALS FOR JEFFERSON COUNTY			809	15,231	515	809		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	809	664	145	15,231			1,951	SURPLUS			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Uses Regional Shelter								0				

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	0	278	-278	0			-16,680	DEFICIT			

LAFAYETTE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
4th District Community Ctr		Hwy 27 South	Mayo	32066			0	0	0			16 miles East of Mayo
Airline Community Ctr		Hwy 27 South	Mayo	32066			0	0	0			5 miles East of Mayo
Day Community Center		CR 53	Mayo	32066			0	0	0			North of Day
Lafayette High School	32 Gym	US 27 East	Mayo	32066	R	G	332	6,640			S 1621X	09-SR-18-03-4-01-210
Lafayette High School	2 Cafeteria	US 27 East	Mayo	32066	R	G	255	3,827		278	F	Updated FISH Data
Mayo Community Ctr		Hwy 27 North	Mayo	32066			0	0	0			1 mile West of Mayo
Oakridge Assisted Living	297 SW CR 300	1343 Johns St	Mayo	32066	N	P	0	0		90	L	
						TOTALS FOR LAFAYETTE COUNTY	**587**	**10,467**	**0**	**368**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**587**	**609**	**-22**	**10,467**			**-495**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Oakridge Assisted Living	297 SW CR 300	1343 Johns St	Mayo	32066	N	P	60	3,600		90	L	

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**60**	**13**	**47**	**3,600**			**2,820**	**SURPLUS**			

LAKE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Astatula Elementary School for the Arts	1	13925 Florida Avenue	Astatula	34705	N	G, A	68	1,025		116	S-1523	Primary Shelter;Updated FISH
Astatula Elementary School for the Arts	2	13925 Florida Avenue	Astatula	34705	N	G, A	296	6,247		296	S-1523	Primary Shelter;Updated FISH
Astatula Elementary School for the Arts	3	13925 Florida Avenue	Astatula	34705	N	G, A	309	4,628		315	S-1523	Primary Shelter;Updated FISH
Beverly Shores Elementary School	14 Classroom	1108 West Griffin Road	Leesburg	34745	N	G	167	4,170		80	L	Secondary Shelter;Updated FISH
Beverly Shores Elementary School	15 Classroom	1108 West Griffin Road	Leesburg	34745	N	G	382	5,737		389	L	Secondary Shelter;Updated FISH
Beverly Shores Elementary School	16 Dining	1108 West Griffin Road	Leesburg	34745	N	G	235	4,251		235	L	Secondary Shelter;Updated FISH
Carver Middle School	2 Classroom	1200 N. Beecher Street	Leesburg	34745	N	G	952	14,285		1,009	L	Secondary Shelter;Updated FISH
Carver Middle School	3 Classroom	1200 N. Beecher Street	Leesburg	34745	N	G	504	7,713		504	L	Secondary Shelter;Updated FISH
Carver Middle School	4 Cafeteria	1200 N. Beecher Street	Lessburg	34745	N	G	398	9,952		292	L	Secondary Shelter;Updated FISH
Carver Middle School	5 Gymnasium	1200 North Beecher Street	Leesburg	34745	N	G	778	11,667		986	L	Secondary Shelter;Updated FISH
East Ridge High School	21 Classroom	13322 Excalibur Road	Clermont	34711	N	G	846	12,690		929	L	Secondary Shelter; 2012 Updated FISH
East Ridge Middle School	200 Classroom	13201 Excalibur Road	Clemont	34711	N	G	0	0		1,016	L	Secondary Shelter; 2011 LRDM notes needs Engineering Evaluation (REMOVED 2015)
East Ridge Middle School	400 Dining	13201 Excalibur Road	Clemont	34711	N	G	368	7,360				DOE FISH / 2011 LRDM update
East Ridge Middle School	500 Music	13201 Excalibur Road	Clemont	34711	N	G	157	3,137				DOE FISH / 2011 LRDM update
East Ridge Middle School	600 Gymnasium	13201 Excalibur Road	Clemont	34711	N	G	581	11,617				DOE FISH / 2011 LRDM update
Eustis High School	3 Gymnasium	1300 East Washington Ave	Eustis	32726	N	G	0	0		462	L	Secondary Shelter; 2011 LRDM notes needs Fenestration Protection (REMOVED 2015)
Eustis Middle School	5 Classroom	18725 East Bates Avenue	Eustis	32726	N	G	793	19,821		632	L	Secondary Shelter; 2012 Updated FISH
Fruitland Park Elementary School	12 Classroom	304 West Fountain Street	Fruitland Park	34731	N	G	272	5,038		272	L	Secondary Shelter;Updated FISH
Grassy Lake Elementary School	1 Dining / ESE / Classroom	1100 Fosgate RD	Minneola	34714	N	G	2,675	53,306		2,675	L	Secondary Shelter; 2012 Updated FISH
Groveland Elementary School	1 ESE / Classroom	930 Parkwood Avenue	Groveland	34736	N	G	613	13,089		613	L	Secondary Shelter; 2012 Updated FISH
Lake Minneola HS	1-Admin / Class	101 N Hancock Road	Minneola	34715	N	G	0	0	1,009	1,009	L-Sch Brd	Secondary Shelter;FISH shows 66,623 sqft
Lake Minneola HS	2 Dining	101 N Hancock Road	Minneola	34715	N	G	0	0	379	379	L-Sch Brd	Secondary Shelter;FISH shows 5,319 sqft
Lake Minneola HS	3-Auditorium	101 N Hancock Road	Minneola	34715	N	G	0	0	117	117	L-Sch Brd	Secondary Shelter;FISH shows 12,975 sqft
Lake Minneola HS	4-Gymnasium	101 N Hancock Road	Minneola	34715	N	G	0	0	775	775	L-Sch Brd	Secondary Shelter;FISH shows 20,508 sqft
Leesburg Elementary School	1	2229 South Street	Leesburg	34748	N	G, A	0	0		41	L	Primary Shelter;Updated FISH
Leesburg Elementary School	3 Classroom	2229 South Street	Leesburg	34748	N	P, A					L	SpNS, Primary Shelter
Leesburg Elementary School	4 Dining	2229 South Street	Leesburg	34748	N	G, A	212	4,316		212	L	Primary Shelter;Updated FISH
Leesburg Elementary School	6 Classroom	2229 South Street	Leesburg	34748	N	G, A	249	3,732		272	S-1523	Primary Shelter;Updated FISH
Leesburg High School	15 Gymnasium	1401 West Meadows Ave	Leesburg	34748	N	G	918	13,766		1,063	L	Secondary Shelter;Updated FISH
Lost Lake Elementary School	1 Clinic / Media	1901 Johns Lake Road	Clermont	34711	N	P, A					L	Primary Shelter;FISH shows 922 sqft
Lost Lake Elementary School	2 Classroom	1901 Johns Lake Road	Clermont	34711	N	G, A	251	5,986		251	L	Primary Shelter;Updated FISH
Lost Lake Elementary School	3 Multipurpose	1901 Johns Lake Road	Clermont	34711	N	G, A	303	4,590		303	L	Primary Shelter;Updated FISH
Mascotte Elementary Charter School	1 ESE / Classroom	460 Midway Avenue	Mascotte	34753	N	G, A	929	18,580		929	L	Primary Shelter;Fish Shows 53,866 sqft
Minneola Elementary School	1 – Dining / ESE / Classroom	300 East Pearl Street	Minneola	34755	N	G	1,512	30,239	500	500	L	Secondary Shelter; Need survey. 48,401 SqFt per FISH
Mount Dora High School	5-media	700 North Highland Ave	Mount Dora	32757	N	G	0	0	0	129	L	Secondary Shelter; FISH Shows 242 sqft Remove?
Mount Dora High School	7 Cafeteria	700 North Highland Ave	Mount Dora	32757	N	G	411	6,237		411	L	Secondary Shelter;Updated FISH
Mount Dora High School	8 Auditorium	700 North Highland Street	Mount Dora	32757	N	G	414	7,897		414	L	Secondary Shelter;Updated FISH
Mount Dora High School	8A Classroom	700 North Highland Street	Mount Dora	32757	N	G	130	2,590			L	
Mount Dora High School	9 Gym	700 North Highland Ave	Mount Dora	32757	N	G	543	11,064		543	L	Secondary Shelter; Updated FISH

LAKE

Pine Ridge Elementary	1 Admn	10245 CR 561	Clermont	34711	N	G	83	1,640		83	L	Secondary Shelter; FISH Shows 840 sqft Remove
Pine Ridge Elementary	3 Classroom	10245 CR 561	Clermont	34711	N	G	270	5,712		270	L	Secondary Shelter;Updated FISH
Pine Ridge Elementary	4-food	10245 CR 561	Clermont	34711	N	G	212	4,264		212	L	Secondary Shelter;Updated FISH
Pine Ridge Elementary	6 Classroom	10245 CR 561	Clermont	34711	N	G	249	3,732		272	L	Secondary Shelter;Updated FISH
Round Lake Elementary School	1	31333 Round Lake Road	Mt. Dora	32757	N	G, A	83	1,641		83	L	Primary Shelter
Round Lake Elementary School	3 Classroom	31333 Round Lake Road	Mt. Dora	32757	N	G, A	270	5,701		270	L	Primary Shelter;Updated FISH
Round Lake Elementary School	4 Dining	31333 Round Lake Road	Mt. Dora	32757	N	G, A	212	4,206		212	L	Primary Shelter;Updated FISH
Round Lake Elementary School	6 Classroom	31333 Round Lake Road	Mt. Dora	32757	N	G, A	249	3,742		272	S-1523	Primary Shelter;Updated FISH
Sawgrass Bay Elementary School	1 – Dining / ESE / Classroom	16325 Superior Blvd	Clermont	34714	N	G	2,545	53,306		2,545	L	Secondary Shelter; 2012 Updated FISH
Seminole Springs Elementary School	1	26200 West Huff Road	Eustis	32726	R	G	140	2,623		140	S-1523	Secondary Shelter; FISH Shows 304 sqft Remove?
Seminole Springs Elementary School	4 Dining	26200 West Huff Road	Eustis	32726	R	G	198	3,433		198	S-1523	Secondary Shelter
Sorrento Elementary	1	24605 Wallick Road	Sorrento	32776	N	G	0	0	929	929	L-Sch Brd	Secondary Shelter; Need survey 47,200 sqft
South Lake High School	1	15600 Silver Lake Road	Groveland	34736	R	G	406	7,536		406	L	Secondary Shelter;Updated FISH
South Lake High School	2	15600 Silver Lake Road	Groveland	34736	R	G	466	6,990		503	L	Secondary Shelter;Updated FISH
South Lake High School	3	15600 Silver Lake Road	Groveland	34736	R	G	481	8,033		481	S-1523	Secondary Shelter;Updated FISH
South Lake High School	4	15600 Silver Lake Road	Groveland	34736	R	G	265	3,978		534	L	Secondary Shelter;Updated FISH
South Lake High School	5	15600 Silver Lake Road	Groveland	34736	R	G	100	2,190		100	L	Secondary Shelter;Updated FISH
South Lake High School	16	15600 Silver Lake Road	Groveland	34736	N	G	392	7,840		392	L	Secondary Shelter;Updated FISH
South Lake High School	17 Classroom	15600 Siver Eagle Road	Groveland	34736	N	G	929	18,580		929	L	Secondary Shelter;Updated FISH
Spring Creek Elementary School	1 Clinic / Media	44440 Spring Creek Road	Paisley	32767	R	G	79	1,188		223	S-1523	Secondary Shelter; FISH Shows 141 sqft Remove?. Gen completed 2012
Spring Creek Elementary School	4 Dining	44440 Spring Creek Road	Paisley	32767	R	G	173	3,346		173	S-1523	Secondary Shelter;Updated FISH. Gen completed 2012
Tavares High School	7 Gym	603 New Hampshire Ave	Tavares	32778	N	G	413	10,337		376	L	Secondary Shelter;Updated FISH
Tavares Middle School	5 Classroom	13032 Lane Park Cutoff	Tavares	32778	N	G, A	632	15,616		632	L	Secondary Shelter;Updated FISH
Treadway Elementary School	11 Classroom	10619 Treadway School Rd	Leesburg	34748	N	G, A	249	3,740		272	L	Primary Shelter;Updated FISH
Treadway Elementary School	12 Classroom	10619 Treadway School Rd	Leesburg	34748	N	G, A	272	5,129		272	L	Primary Shelter;Updated FISH
Treadway Elementary School	13 Dining	10619 Treadway School Rd	Leesburg	34748	N	G, A	212	4,227		212	L	Primary Shelter;Updated FISH
Umatilla Elementary School	1	60 Smith Street	Umatilla	32784	N	G, A	64	966		83	L	Primary Shelter;Updated FISH
Umatilla Elementary School	3 Classroom	60 Smith Street	Umatilla	32784	N	P, A	273	5,466			L	SpNS
Umatilla Elementary School	4 Dining	60 Smith Street	Umatilla	32784	N	G, A	227	4,146		227	L	Primary Shelter;Updated FISH
Umatilla Elementary School	6 Classroom	60 Smith Street	Umatilla	32784	N	G, A	249	3,732		272	L	Primary Shelter;Updated FISH
Umatilla High School	28 Gymnasium	320 North Trowell Ave	Umatilla	32784	N	G, A	382	9,558		379	L	Secondary Shelter;Updated FISH
Villages Elementary School	1	695 Rolling Acres Road	Lady Lake	32159	N	P					S-1523	SpNS
Villages Elementary School	2 Classroom	695 Rolling Acres Road	Lady Lake	32159	N	G	296	6,176		296	S-1523	Primary Shelter;Updated FISH
Villages Elementary School	3 Dining	695 Rolling Acres Road	Lady Lake	32159	N	G	309	4,629		315	S-1523	Primary Shelter;Updated FISH
				TOTALS FOR LAKE COUNTY			**27,645**	**528,133**	**3,709**	**30,732**		

	Shelter Capacity In People	**Shelter Demand In People**	**Surplus/ Deficit In People**	**Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**			
Storm Category 4/5	**27,645**	**24,960**	**2,685**	**528,133**			**28,933**	**SURPLUS**			

2016 Statewide Emergency Shelter Plan

LAKE

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Leesburg Elementary School	3 Classroom	2229 South Street	Leesburg	34748	N	P, A	135	6,389		135		EHPA. Primary Shelter;updated FISH
Lost Lake ES	1 Clinic / Media	1901 Johns Lake Road	Clemont	34711	N	P, A	23	922		51	L-School Broad	EHPA. Primary Shelter;updated FISH
Umatilla Elementary School	3 Classroom	320 North Trowell Avenue	Umatilla	32784	N	P, A	135	5,697		135		EHPA. Primary Shelter;updated FISH
Villages Elementary School	1	695 Rolling Acres Road	Lady Lake	32159	N	P	21	842		51		Backup SpNS Shelter;updated FISH
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**314**	**1,414**	**-1,100**	**18,840**			**-66,000**	**DEFICIT**				

LEE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Alico Arena (Florida Gulf Coast Univ/)	Gym	Ben C Griffin Parkway	Estero	33928	N	G	0	0	1,685	1,685	L	EXITING storm shelter, 5.6' SLOSH
Alva ES/MS		21290 Park Street	Alva	33920		G	0	0	283	283	L	
Colonial Elementary School	4, 6, 7, 9, 12	3800 Schoolhouse Rd East	Ft. Myers	33916	R	G	0	0	1,400	1,400	L	EXITING storm shelter;updated FISH, 9' SLOSH
Diplomat Elementary School	4, 6, 7, 8, 9	1115 NE 16th Terrace	Cape Coral	33990	R	G	0	0	1,600	1,600	L	EXITING storm shelter;updated FISH, 11.3' SLOSH
Diplomat Middle School	cafeteria	1039 NE 16th Terrace	Cape Coral	33990	R	G	0	0	1,000	1,000		EXITING storm shelter-PBSJ report no window protection? Bldg.#3= 7,145 sqft, 10.3' SLOSH
East Lee HS	part of site	715 Thomas Sherwin Ave, South	Lehigh Acres	33974	N	G, P	0	0	3,200	3,200	L	open 8/07-, 5.4' SLOSH
Estero Community Center	entire site	Corkscrew Palm Road	EStero	33928	N	G	0	0	500	500	L	NEW LATE 2006, 11' SLOSH
Estero High School	Gym	21900 River Ranch Road	Estero	33928		G	0	0				HOST ONLY, 9.7' SLOSH
Germain Arena	Arena 1	11000 Everglades Parkway	Estero	33928	R	G	0	0	4,300	4,300	L	EXITING storm shelter, 9.2' SLOSH
Harns Marsh ES	entire site	15511 Homestaed RD	Lehigh	33971	N	G	0	0	2,100	2,100	L	New School 06 Construction EHPA, 7' SLOSH
Harns Marsh MS	Entire site	1820 Unice Ave North	Lehigh	33971		G	0	0	1,300	1,300	L	Added 2014
Islands Coast High School	entire site	2125 DeNavarra Parkway	Cape Coral	33991	N	G	0	0	3,800	3,800	L	8/08 construction EHPA-EXITING storm, 10.1' SLOSH
J. Colin English ES	2 story bldg	120 Pine Island Rd	N. Ft. Myers	33903	R	G	0	0	800	800	L	EXITING storm shelter, 12.5' SLOSH
Lehigh Senior High School	Center bldg square	801 Gunnery Road North	Lehigh Acres	33971	R	G	0	0	850	850	L	2.8' SLOSH
Littleton Elementary School	1, 4, 5, 6, 8 (Corridors)	700 Hutto Road	North Ft. Myers	33903		G	0	0	1,000	1,000	L	EXITING storm shelter, 11.7' SLOSH
Mariner High School	Auditorium	701 Chiquita Boulevard	Cape Coral	33909			0	0	345			EXITING storm shelter- open span, 13' SLOSH
Mariner Middle School	Entire school	425 Chiquita Blvd	Cape Coral	3909	N	G	0	0	650	650	new school	13.1' SLOSH
Mirror Lakes Elementary School	Corridors	525 Charwood Avenue	Lehigh	33936	N	G	0	0	2,300	2,300		EXITING storm shelter, 4.7' SLOSH
North Ft. Myers Academy of Arts	Entire School	1856 Arts Way	N. Ft. Myers	33907	R	G	0	0	1,700	1,700	L	EXITING storm shelter-roof questions per report, 10.6' SLOSH
North Ft. Myers Recreation Center	Entire Building	2000 N Recreation Park Way	N. Ft. Myers	33916	N	G	500	33,000	500	500	L	Added 2014
Oak Hammock Middle School	Entire Site	5321 Tice Street	Ft Myers	33905	N	G	0	0	2,300	2,300	L	8/08 const EHPA- EXITING storm?, 8.5' SLOSH
Riverdale High School	Gym & Cafeteria	2600 Buckingham Road	Ft. Myers	33905		G	0	0	500	500		HOST ONLY, 14.8' SLOSH
Royal Palm Exceptional Center	Entire School	1817 High Street	Ft. Myers	33916		G	0	0	150	150	L	Added 2014
South Ft. Myers HS	Entire	14021 Plantation Blvd	Ft. Myers	33916	N	G, A	0	0	3,100	3,100	new school	EXITING storm shelter, 11.1' SLOSH
Three Oaks Elementary School	Classrooms & Cafeteria	19600 Three Oaks Parkway	San Carlos Park	33912		G	0	0	300	300		EXITING storm shelter, 9.2' SLOSH
Three Oaks Middle School	Classrooms & Cafeteria	18500 Three Oaks Parkway	San Carlos Park	33912		G	0	0	300	300		EXITING storm shelter, 8.5' SLOSH
Varsity Lakes MS	1	801 North Gunnery Rd	Lehigh Acres	33971	N	G	0	0	2,300	2,300	L	2005 const HVWZ-EXITING storm, 3.4' SLOSH
Varsity Lakes MS	2	801 North Gunnery Rd	Lehigh Acres	33971	N	G	0	0			L	2005 const HVWZ-EXITING storm, 3.4' SLOSH
Varsity Lakes MS	3	801 North Gunnery Rd	Lehigh Acres	33971	N	G	0	0			L	2005 const HVWZ-EXITING storm, 3.4' SLOSH
Varsity Lakes MS	4	801 North Gunnery Rd	Lehigh Acres	33971	N	G	0	0			L	2005 const HVWZ-EXITING storm, 3.4' SLOSH
Veterens Park ES / MS	Gym & entire School	55 Homestead Road	Lehigh Acres	33936	N	G	0	0		2,500	new school	2005 const EHPA, 9' SLOSH
Veterens Park Rec Center	Gym	55 Homestead Road S	Lehigh Acres	33936	N	G	0	500	500	500		
YMCA	Entire site	E. Terry Avenue	Bonita Springs	33913	N	G	0	0	400	400	new bldg	2006 const EHPA EXITING storm shelter
						TOTALS FOR LEE COUNTY	**500**	**33,500**	**39,163**	**41,318**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**500**	**71,410**	**-70,910**	**33,500**			**-1,394,700**	**DEFICIT**			

LEE

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
East Lee County HS	Part of site	715 Thomas Sherwin Ave, S	Lehigh Acres	33974	N	P				150	L	150 patients EHPA, 5.4' SLOSH
Ray Pottorf Elementary School	Entire Site	4600 Challenger Blvd	Ft. Myers	33912	N	P				800	S	400 Patients and 400 caregivers 06 EHPA & capacity. Built to 150 mph winds, in Cat 4/5 evac zone. EXITING storm only, 5.2' SLOSH
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**0**	**3,285**	**-3,285**	**0**			**-197,100**	**DEFICIT**				

LEON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Apalachee Elementary School		650 Trojan Trail	Tallahassee	32311		G	0	0				
Astoria Park Elementary School		2465 Atlas Road	Tallahassee	32303		G	0	0				
Belle Vue Middle School		2214 Belle Vue Way	Tallahassee	32303		G	0	0				
Bethel AME Church		501 West Orange Avenue	Tallahassee	32312		G	0	0				
Bond Elementary School		2204 Saxon Street	Tallahassee	32310		G	0	0				
Bucklake Elementary School	1	1600 Pedrick Road	Tallahassee	32311	R	G	408	6,123		521	HMGP	
Bucklake Elementary School	2	1600 Pedrick Road	Tallahassee	32311	R	G	298	4,469		400	HMGP	
Bucklake Elementary School	5	1600 Pedrick Road	Tallahassee	32311	R	G	253	3,795		275	HMGP	
Bucklake Elementary School	6	1600 Pedrick Road	Tallahassee	32311	R	G	321	4,772		321	HMGP	
Bucklake Elementary School	7	1600 Pedrick Road	Tallahassee	32311	R	G	110	1,651		140	HMGP	
Bucklake Elementary School	3 & 4	1600 Pedrick Road	Tallahassee	32311	R	G	76	1,145		217	HMGP	
Canopy Oaks Elementary School	1	3250 Point View Drive	Tallahassee	32303	R	G	203	4,060		203	HMGP	
Canopy Oaks Elementary School	2	3250 Point View Drive	Tallahassee	32303	R	G	381	5,710		440	HMGP	
Canopy Oaks Elementary School	3	3250 Point View Drive	Tallahassee	32303	R	G	427	6,400		544	HMGP	
Canopy Oaks Elementary School	4	3250 Point View Drive	Tallahassee	32303	R	G	388	5,827		410	HMGP	
Canopy Oaks Elementary School	5	3250 Point View Drive	Tallahassee	32303	R	G	479	7,040		479	HMGP	
Canopy Oaks Elementary School	6	3250 Point View Drive	Tallahassee	32303	R	G	221	3,310		281	HMGP	
Carolyn Brevard Elementary School	10	2006 Jackson Bluff Road	Tallahassee	32304	R	G	57	853		73	HMGP	
Carolyn Brevard Elementary School	11	2006 Jackson Bluff Road	Tallahassee	32304	R	G	125	1,872		158	HMGP	
Carolyn Brevard Elementary School	12	2006 Jackson Bluff Road	Tallahassee	32304	R	G	113	1,675		113	HMGP	
Carolyn Brevard Elementary School	13	2006 Jackson Bluff Road	Tallahassee	32304	R	G	124	1,860		158	HMGP	
Carolyn Brevard Elementary School	14	2006 Jackson Bluff Road	Tallahassee	32304	R	G	46	690		58	HMGP	
Chaires Elementary School	1	4774 Chaires Crossroads	Tallahassee	32311	R	G	228	5,694		112	HMGP	
Chaires Elementary School	2	4774 Chaires Crossroads	Tallahassee	32311	R	G	253	3,796		323	HMGP	
Chaires Elementary School	5	4774 Chaires Crossroads	Tallahassee	32311	R	G	127	1,901		277	HMGP	
Chaires Elementary School	6	4774 Chaires Crossroads	Tallahassee	32311	R	G	323	4,935		323	HMGP	
Chaires Elementary School	7	4774 Chaires Crossroads	Tallahassee	32311	R	G	174	2,604		221	HMGP	
Chaires Elementary School	3 & 4	4774 Chaires Crossroads	Tallahassee	32311	R	G	128	1,914		166	HMGP	
Conley Elementary School	1	2400 East Orange Avenue	Tallahassee	32301	N	G	67	1,332			EHPA	per plans
Conley Elementary School	2	2400 East Orange Avenue	Tallahassee	32301	N	G	276	5,527			EHPA	per plans
Cobb Middle School		915 Hillcrest Avenue	Tallahassee	32308		G	0	0	400			
Dearlake Middle School	2	9902 Deerlake Drive West	Tallahassee	32312	R	G	472	7,343		472	HMGP	
Dearlake Middle School	3	9902 Deerlake Drive West	Tallahassee	32312	R	G	472	7,449		472	HMGP	
Dearlake Middle School	4	9902 Deerlake Drive West	Tallahassee	32312	R	G	479	7,360		472	HMGP	
Dearlake Middle School	5	9902 Deerlake Drive West	Tallahassee	32312	R	G	78	1,167		154	HMGP	
Dearlake Middle School	7	9902 Deerlake Drive West	Tallahassee	32312	R	G	150	2,906		150	HMGP	
Desoto Trail Ememtary School	1	2930 Velda Dairy Road	Tallahassee	32308	R	G	408	6,123		521	HMGP	
Desoto Trail Ememtary School	2	2930 Velda Dairy Road	Tallahassee	32308	R	G	314	4,706		400	HMGP	
Desoto Trail Ememtary School	4	2930 Velda Dairy Road	Tallahassee	32308	R	G	106	1,597		179	HMGP	
Desoto Trail Ememtary School	5	2930 Velda Dairy Road	Tallahassee	32308	R	G	253	3,795		275	HMGP	
Desoto Trail Ememtary School	6	2930 Velda Dairy Road	Tallahassee	32308	R	G	321	4,772		321	HMGP	
Desoto Trail Ememtary School	7	2930 Velda Dairy Road	Tallahassee	32308	R	G	110	1,651		140	HMGP	
Everheart School		2750 Mission Road	Tallahassee	32303		G	0	0	100			
Fairview Middle School		3415 Zillah Street	Tallahassee	32311		G	0	0	400			
Faith Presbyterian Church		2200 North Meridian Road	Tallahassee	32303		G	0	0	120			
FAMU 77 Engineering Bldg	77 - 1st floor				N	G	517	10,341				

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Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
First Baptist Church		SR 363	Woodville	32362		G	0	0	100			
First Church of the Nazarene		1983 Mahan Drive	Tallahassee	32308		G	0	0	100			
Forest Heights Baptist Church		1200 West Tharpe Street	Tallahassee	32303		G	0	0	125			
Fort Braden Elementary School	1	15100 Blountstown Hwy	Tallahassee	32310	R	G	835	12,523		993	HMGP	
Fort Braden Elementary School	2	15100 Blountstown Hwy	Tallahassee	32310	R	G	394	6,290		394	HMGP	
Fort Braden Elementary School	3	15100 Blountstown Hwy	Tallahassee	32310	R	G	301	4,508		363	HMGP	
Fort Braden Elementary School	4	15100 Blountstown Hwy	Tallahassee	32310	R	G	151	2,268		193	HMGP	
FSU School	1	3000 School House Rd	Tallahassee	32304	R	G	233	4,660		233	HMGP	
FSU School	3	3000 School House Rd	Tallahassee	32304	R	G	0	0			HMGP	
FSU School	4	3000 School House Rd	Tallahassee	32304	R	G	0	0		733	HMGP	
FSU School	5	3000 School House Rd	Tallahassee	32304	R	G	367	7,340		367	HMGP	
FSU School	6	3000 School House Rd	Tallahassee	32304	R	G	411	8,220		411	HMGP	
Everheart School		3000 School House Rd	Tallahassee	32304		G	0	0				
Fairview Middle School		3000 School House Rd	Tallahassee	32304		G	0	0				
Faith Presbyterian Church		3000 School House Rd	Tallahassee	32304		G	0	0				
First Baptist Church		3000 School House Rd	Tallahassee	32304		G	0	0				
First Church of the Nazarene		3000 School House Rd	Tallahassee	32304		G	0	0				
Florida High		3000 School House Rd	Tallahassee	32304			0	0				
Forest Heights Baptist Church		3000 School House Rd	Tallahassee	32304		G	0	0				
FSU School	8	3000 School House Rd	Tallahassee	32304	R	G	0	0		643	HMGP	
FSU School	9	3000 School House Rd	Tallahassee	32304	R	G	452	9,040		452	HMGP	
Gilchrist Elementary School		695 Timberlane Road	Tallahassee	32312		G	0	0				
Godby High School		1717 West tharpe Street	Tallahassee	32303		G	0	0				
Griffin Middle School		800 Alabama Street	Tallahassee	32304		G	0	0				
Hartsfield Elementary School	9	1414 Chowkeebin Nene	Tallahassee	32301	R	G	78	1,176		100	HMGP	
Hartsfield Elementary School	10	1414 Chowkeebin Nene	Tallahassee	32301	R	G	69	1,036		88	HMGP	
Hartsfield Elementary School	11	1414 Chowkeebin Nene	Tallahassee	32301	R	G	47	706		136	HMGP	
Hartsfield Elementary School	12	1414 Chowkeebin Nene	Tallahassee	32301	R	G	141	2,108		179	HMGP	
Hartsfield Elementary School	16	1414 Chowkeebin Nene	Tallahassee	32301	R	G	93	1,395		112	HMGP	
Hawks Rise ES	1	205 Meadow Ridge Dr	Tallahassee	32301	R	G	131	2,640		131	HMGP	
Hawks Rise ES	2	205 Meadow Ridge Dr	Tallahassee	32301	R	G	384	5,755		404	HMGP	
Hawks Rise ES	3	205 Meadow Ridge Dr	Tallahassee	32301	R	G	238	3,564		303	HMGP	
Hawks Rise ES	4	205 Meadow Ridge Dr	Tallahassee	32301	R	G	182	2,727		249	HMGP	
Hawks Rise ES	5	205 Meadow Ridge Dr	Tallahassee	32301	R	G	453	6,802		553	HMGP	
Hawks Rise ES	6	205 Meadow Ridge Dr	Tallahassee	32301	R	G	348	5,224		444	HMGP	
Lawton Chiles High School	1	7200 Thomasville Road	Tallahassee	32312	R	G, A	295	5,900		295	HMGP	
Lawton Chiles High School	2	7200 Thomasville Road	Tallahassee	32312	R	G	789	12,591		792	HMGP	
Lawton Chiles High School	7	7200 Thomasville Road	Tallahassee	32312	R	G	1,775	28,379		1,478	HMGP	
Lawton Chiles High School	8	7200 Thomasville Road	Tallahassee	32312	R	G	1,061	17,508		958	HMGP	
Montford Middle School	2	5789 Pimlico Drive	Tallahassee	32309	N	G	385	7,693			EHPA	per plans
Oak Ridge Elem	2	4350 Shelfer Road	Tallahassee	32310	R	G	259	3,889		338	HMGP	
Oak Ridge Elem	6	4350 Shelfer Road	Tallahassee	32310	R	G	254	3,815		292	HMGP	
Pineview Elementary School		2230 Lake Bradford Rd	Tallahassee	32310	R	G	0	0				
Raa Middle School		410 West Tharpe Street	Tallahassee	32303	R	G	0	0				

LEON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Rickards High School		3013 Jim Lee Road	Tallahassee	32301	R	G	0	0				
Riley Elementary School		1400 Indiana Street	Tallahassee	32304	R	G	0	0				
Roberts ES	1	5777 Centerville Rd	Tallahassee	32309	R	G	521	9,189		521	HMGP	
Roberts ES	2	5777 Centerville Rd	Tallahassee	32309	R	G	608	9,124		674	HMGP	
Roberts ES	3	5777 Centerville Rd	Tallahassee	32309	R	G	291	4,376		291	HMGP	
Roberts ES	4	5777 Centerville Rd	Tallahassee	32309	R	G	295	4,428		553	HMGP	
Springwood Elementary School	1	3801 Fred George Rd	Tallahassee	32303	R	G	380	5,694		484	HMGP	
Killearn Lakes Elementary School		8037 Deerlake Dr East	Tallahassee	32312		G	0	0				
Lakeview Baptist Church		222 West 7th Avenue	Tallahassee	32303		G	0	0				
Springwood Elementary School	2	3801 Fred George Road	Tallahassee	32303	R	G	265	3,976		322	HMGP	
Springwood Elementary School	5	3801 Fred George Road	Tallahassee	32303	R	G	134	2,016		277	HMGP	
Springwood Elementary School	6	3801 Fred George Road	Tallahassee	32303	R	G	322	4,792		322	HMGP	
Springwood Elementary School	7	3801 Fred George Road	Tallahassee	32303	R	G	170	2,554		221	HMGP	
				TOTALS FOR LEON COUNTY			**22,398**	**362,071**	**1,345**	**25,068**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**22,398**	**3,987**	**18,411**	**362,071**			**282,331**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
FSU School	4	Shumard Oak Blvd	Tallahassee	32311	R	P	244	14,660		244		
FSU School	8	Shumard Oak Blvd	Tallahassee	32311	R	P	214	12,860		214		
Kate Sullivan Elementary School		927 Miccousukee Road	Tallahassee	32308		P	0	0	116			
FSU School	3	Shumard Oak Blvd	Tallahassee	32311	R	P	247	14,860		?	HMGP	

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**705**	**600**	**105**	**42,300**			**6,300**	**SURPLUS**			

2016 Statewide Emergency Shelter Plan

LEVY

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bronson ES	3 Cafetorium	400 Ishie Ave	Bronson	32621	R	P	275	5,490			S-09/10 1496	Updated 2014
Bronson ES	6 Admin - Media	400 Ishie Ave	Bronson	32621	R	P	0	0	1,623	622	S-1435A-2003	SpNS see below
Bronson ES	7 Classroom	400 Ishie Ave	Bronson	32621	R	P	0	0		580	S-1435A-2003	SpNS see below
Bronson ES		400 Ishie Ave	Bronson	32621		G	0	0	2,720			
Bronson Middle / High School	600 Café	8691 NE 90th str	Bronson	32621	N	G	354	7,077			EHPA	DEM Updated 2014 per FISH
Joyce M. Bullock Elementary School	5 Classroom	130 Southwest 3rd. Street	Williston	32696	R	G	252	5,044		252	S-1435A-2003	2014 LRDM per FISH
Cedar Key School		951 Whiddon Avenue	Cedar Key	32625		G	0	0	0			in cat 2/3 zone
Chiefland Elementary School	100	1205 NW 4th Avenue	Chiefland	32626		G, A	0	0	1,687	60		per state study
Chiefland Elementary School	200	1205 NW 4th Avenue	Chiefland	32626	R	G, A	362	7,233		362	S-1467-2005	DEM Updated 2014 per FISH
Chiefland Elementary School	300	1205 NW 4th Avenue	Chiefland	32626	R	G, A	313	6,269		443	S-1588-2006	DEM Updated 2014 per FISH
Chiefland Elementary School	400	1205 NW 4th Avenue	Chiefland	32626		G, A	257	5,140		43	S	FY 11/12 1515A: 13-SR-AA-05-48-D3-368
Chiefland High School		808 N. Main Street	Chiefland	32626		G	0	0	2,201			
Chiefland Middle School	400 Gym	118 NW 4th Drive	Chiefland	32626		G	0	0	432			DEM Updated 2014 per FISH
Williston Elementary School	700 Classroom	801 South Main Street	Williston	32696		G	0	0	2,271			
Williston High School	6 Dining	427 West Noble Avenue	Williston	32696	R	G	292	4,374		488	S-1435A-2003	
Williston Middle High School	12 Classroom	20550 NE 3rd Avenue	Williston	32696	R	G	400	5,996		495	S-1467-2005	
Williston Middle High School	10 Health	20550 NE 3rd Avenue	Williston	32696	R	G	62	926		130	S-1467-2005	
Williston Middle High School	14 Cafetorium	20550 NE 3rd Avenue	Williston	32696			0	0				
Yankeetown School		4500 Highway 40 West	Yankeetown	34498		G	0	0	0			in Cat 2 zone
							0	0				
						TOTALS FOR LEVY COUNTY	2,567	47,549	10,934	3,475		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**2,567**	**4,184**	**-1,617**	**47,549**			**-36,131**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bronson ES	6 Admin - Media	400 Ishie Ave	Bronson	32621	R	P	35	2,125		35	S-1435A-2003	
Bronson ES	7 Classroom	400 Ishie Ave	Bronson	32621	R	P	101	6,084		101	S-1435A-2003	

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**136**	**19**	**117**	**8,160**			**7,020**	**SURPLUS**			

LIBERTY

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bristol Pentecostal Holiness Church		Solomon Street	Bristol	32321			0	0	50			
Camp Woodmen		SR 12	Hosford	32324			0	0	100			
First Baptist Church		SR 20	Bristol	32321			0	0	100			
Hosford Elem Junior High School	12 Classroom	16864 NE State Road 65	Hosford	32334		G	219	4,389			S	FY 11 / 12 1515A 13-SR-AA-02-49-03-367 Completed 01-2015
Hosford Elem Junior High School	14 Cafeteria	16864 NE State Road 65	Hosford	32334		G	215	4,306				Built 2008 EHPA, LRDM Survey 2015.
Liberty County Sr High School	19 Classroom	SR 20	Bristol	32321			0	0			L	Built 2007: Unprotected Fenestration
Liberty County Senior Center	1	SR 20	Bristol	32321			17	1,020			L	
W R Toler Elementary School	100 Main	SR 12	Bristol	32321	R	G	185	3,707	547	185	1508-2005?	Updated Fish Data
W R Toler Elementary School	200 Classroom	SR 12	Bristol	32321	N	G	534	8,011		548	L	Updated Fish Data
W R Toler Elementary School	300 Classroom	SR 12	Bristol	32321	R	G	63	1,262	317	63	1508-2005?	Updated Fish Data
W R Toler Elementary School	400 Gym	SR 12	Bristol	32321	R	G	352	7,613		352		Updated Fish Data
						TOTALS FOR LIBERTY COUNTY	**1,585**	**30,308**	**1,114**	**1,148**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,585**	**467**	**1,118**	**30,308**			**20,968**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Hosford Elem Junior High School	14 Cafeteria	16864 NE State Road 65	Hosford	32334	N	P	73	4,391		25		LRDM Survey 2015. EHPA.
										0		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**73**	**275**	**-202**	**4,391**			**-12,109**	**DEFICIT**			

MADISON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Greenville Elementary School		SR 150 S	Greenville	32331								
Lee Elementary School		731 US Hwy 90 E	Lee	32059								Built 2001 (FISH)
Madison Central School	1 Admin	2093 W US Hwy 90	Madison	32340	R	G	175	2,621		518	S-1435A-2003	Built 2000
Madison Central School	2 Media	2093 W US Hwy 90	Madison	32340	R	G	19	285		721	S-1435A-2003	Built 2000
Madison Central School	3 Tech	2093 W US Hwy 90	Madison	32340	R	G	65	972		490	S-1435A-2003	Built 2000
Madison Central School	4 Classroom	2093 W US Hwy 90	Madison	32340	R	G	134	2,014		265	S-1435A-2003	Built 2000
Madison Central School	5 Classroom	2093 W US Hwy 90	Madison	32340	R	G	511	7,661		833	S-1435A-2003	Built 2000
Madison Central School	6 Classroom	2093 W US Hwy 90	Madison	32340	R	G	444	6,666		768	S-1435A-2003	Built 2000
Madison Central School	7 Classroom	2093 W US Hwy 90	Madison	32340	R	G	429	6,435		728	S-1435A-2003	Built 2000
Madison Central School	8 Classroom	2093 W US Hwy 90	Madison	32340	R	G	563	8,442		796	S-1435A-2003	Built 2000
Madison Central School	9 Classroom	2093 W US Hwy 90	Madison	32340	R	G	478	7,177		659	S-1435A-2003	Built 2000
Madison Central School	10 Classroom	2093 W US Hwy 90	Madison	32340	R	G	622	9,323		802	S-1435A-2003	Built 2000
Madison Central School	11 Band and Art	2093 W US Hwy 90	Madison	32340	R	G	344	5,153		518	S-1435A-2003	Built 2000
Madison Central School	12 Gymnasium	2093 US Hwy 90 W	Madison	32340			0	0				Built 2000 FISH Data = possible 12,332 sqft
Madison County High School		US Highway 90 East	Madison	32340					350			
Madison County Memorial Hospital		201 E Marion St	Madison	32340								
Mormon Church		US Highway 90 East	Madison	32340					70			
New Testament Christian Center		US Highway 90 East	Madison	32340			0	0	100			
Pinetta Elem School	3D Classroom	135 Empress Tree Ave	Pinetta	32350	R	G	124	2,479			S-1496-2009	Built 2000 (LRDM)
Town of Lee-Publ. Saf / Emerg Shelter	Fire	304 North Main Street	Lee	32059	N	G	300	4,632		300	S-EMPA	01CP-04-03-50-02-217 (Built 2003 LRDM)
				TOTALS FOR MADISON COUNTY			**4,208**	**63,860**	**520**	**7,398**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**4,208**	**1,259**	**2,949**	**63,860**			**38,680**	**SURPLUS**				

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Madison Central	?	2093 US Hwy 90	Madison	32340	R	P	28	1,680		28		Building # not verrified. DOH notes 350 KW Generator - no HVAC

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**28**	**67**	**-39**	**1,680**			**-2,340**	**DEFICIT**				

MANATEE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Anna Maria Elementary School	1	4700 Gulf Drive North	Holmes Beach	34217	N						L,S	Built 2005: Exempted, in Category A Zone. 14.6' SLOSH
Annie Lucy Williams Elementary School	1	3404 Fort Hamer Road	Parrish	34219	N	G	1,451	32,280		1,450	L,S	EHPA, Built 2007, Updated FISH Data
Bashaw Elementary School	2	3515 Morgan Johnson Rd	Bradenton	34208	R	G	0	0		500	S-1543	Updated FISH Data, 4.4' SLOSH
Bashaw Elementary School	3	3515 Morgan Johnson Rd	Bradenton	34208	R	G	0	0		500	HMGP	Updated FISH Data, 4.4' SLOSH
Bashaw Elementary School	4	3515 Morgan Johnson Rd	Bradenton	34208	R	G	0	0		460	HMGP	Updated FISH Data, 4.4' SLOSH
Bashaw Elementary School	5	3515 Morgan Johnson Rd	Bradenton	34208	R	G	0	0		460	HMGP	Updated FISH Data, 4.4' SLOSH
Bayshore Elementary School	1	6120 26th Street West	Bradenton	34207	N	G	1,764	40,767		1,764	L	Updated FISH Data
Braden River Elementary School	1	6215 River Club Boulevard	Bradenton	34208	R	G					HMGP	Updated FISH Data / Window protection removed
Braden River Elementary School	2	6215 River Club Boulevard	Bradenton	34208	R	G					HMGP	Updated FISH Data / Window protection removed
Braden River Elementary School	3	6215 River Club Boulevard	Bradenton	34208	R	G					S-1543	Updated FISH Data / Window protection removed
Braden River Elementary School	4	6215 River Club Boulevard	Bradenton	34208	R	G					S-1543	Updated FISH Data / Window protection removed
Braden River Elementary School	5	6215 River Club Boulevard	Bradenton	34208	R	G					S-1543	Updated FISH Data / Window protection removed
Braden River High School	6	6545 SR 70 East	Bradenton	34202	N	G	718	11,131		718	L	Updated FISH Data
Braden River High School	7	6545 SR 70 East	Bradenton	34202	N	G	1,335	20,028		1,714	L	Updated FISH Data
Braden River High School	8	6545 SR 70 East	Bradenton	34202	N	G, A	619	9,283		937	L	Updated FISH Data
Braden River Middle School	2	6215 River Club Boulevard	Bradenton	34202	R	G	447	9,351		447	HMGP	Updated FISH Data
Braden River Middle School	5	6215 River Club Boulevard	Bradenton	34202	R	G	168	2,518		183	S-1543	Updated FISH Data
Braden River Middle School	6	6215 River Club Boulevard	Bradenton	34202	R	G	354	6,447		354	S-1543	Updated FISH Data
Buffalo Creek MS	1 Admin / Clinic / Media / Classroom	7320 69th Street East	Palmetto	34220	N	G	153	3,050				Built 2006. EHPA
Carlos Haile Middle School	5	9501 State Road 64th East	Bradenton	34202	R	G	531	7,958		588	S-1118A	Updated FISH Data
Carlos Haile Middle School	3A	9501 State Road 64th East	Bradenton	34202	R	G	668	16,695		297	HMGP	Updated FISH Data
Carlos Haile Middle School	4A	9501 State Road 64th East	Bradenton	34202	R	G	619	9,287		747	HMGP	Updated FISH Data
Daughtrey Elementary	1 Main	515 63rd Avenue East	Bradenton	34202	N	G	1,877	37,552		1,877	L	Built 2007
Freedom Elementary	1	9515 State Road 64th East	Bradenton	34202	N	G	1,764	37,095		1,764	L	Updated FISH Data
G.D. Rogers Garden Elementary School	2 Dining	515 13th Avenue West	Bradenton	34208	N	G	0	0	0	1,450	L,S	Updated FISH Data, 3.3' SLOSH
Gullett Elementary School	1 Clinic / Classroom (1st Floor)	12125 44th	Bradenton	34202	N	G	866	17,311				Built 2007 EHPA: 2015 LRDM / FISH Data
Gullett Elementary School	2 Media / Multipurpose	12125 44th	Bradenton	34202	N	G	339	6,785				Built 2007 EHPA: 2015 LRDM / FISH Data
King Middle School	1	700 75th Street NW	Bradenton	34209	N		0	0	0		L,S	Exempted, In Catatgory B, Evacuation Zone, 8.3' SLOSH
Kinnan Elementary School	3	3415 Tallevast Road	Sarasota	34243	R	G	0	0		530	S-1523	Updated FISH Data, 3.5' SLOSH
Kinnan Elementary School	4	3415 Tallevast Road	Sarasota	34243	R	G	0	0		145	HMGP	Updated FISH Data, 3.5' SLOSH
Lee Middle School	A	4000 53rd Avenue West	Bradenton	34210	R	G	326	7,849		326	S-1543	
Lee Middle School	B	4000 53rd Avenue West	Bradenton	34210	R	G	326	7,132		326	S-1543	
Lee Middle School	C	4000 53rd Avenue West	Bradenton	34210	R	G	326	7,790		326	S-1543	
Lincoln Middle School	A	305 17th Street East	Palmetto	34221	R	G	0	0		326	HMGP	6.3' SLOSH
Lincoln Middle School	B	305 17th Street East	Palmetto	34221	R	G	0	0		326	HMGP	6.3' SLOSH
Lincoln Middle School	C	305 17th Street East	Palmetto	34221	R	G	0	0		326	HMGP	6.3' SLOSH
Louise Johnson Middle School	3	2121 26th Avenue East	Bradenton	34208	R	G	431	12,509		198	F, S	not done?
Louise Johnson Middle School	5	2121 26th Avenue East	Bradenton	34208	R	G	198	2,712		198	S-1543	
Manatee High School	2	1000 32nd Street West	Bradenton	34205	R	G	1,293	23,898		1,293	HMGP	Updated FISH Data
Manatee High School	3	1000 32nd Street West	Bradenton	34205	R	G, A	663	16,585		560	S-1543	Updated FISH Data
Manatee Technical Institute Medical Complex	1 Vocational Classroom	5520 Lakewood Ranch	Bradenton	34202	N	P					EMPA	Built 2001; EHPA
McNeil Elementary	1	6325 Lorraine Road	Bradenton	34202	N	G	1,766	37,095		1,766	L	EHPA; Updated FISH Data
Miller, Jessie P Elem School	1	4201 Manatee	Bradenton	34209	N	G	2,080	41,605				Built 2007 EHPA: Updated FISH Data
Myakka City Elementary School	3	37205 Manatee Avenue	Myakka City	34251	R	G					HMGP	Updated FISH Data / Window protection removed
Myakka City Elementary School	4	37205 Manatee Avenue	Myakka City	34251	R	G					HMGP	Updated FISH Data / Window protection removed

MANATEE

Myakka City Elementary School	6	37205 Manatee Avenue	Myakka City	34251	R	G					HMGP	Updated FISH Data / Window protection removed
Myakka City Elementary School	7	37205 Manatee Avenue	Myakka City	34251	R	G					HMGP	Updated FISH Data / Window protection removed
Myakka City Elementary School	13 Dining	37205 Manatee Avenue	Myakka City	34251	R	G	206	4120		206	L,S	2013 FISH data Building number
R. Dan Nolan Middle School	1	6615 Greenbrook Boulevard	Bradenton	34202	N	G	0	0		3,377	L	Total used for SpNs
Oneco Elementary School	1	2000 53rd Avenue East	Bradenton	34203	R	G	0	0			HMGP	Updated FISH Data
Oneco Elementary School	4	2000 53rd Avenue East	Bradenton	34203	R	G	564	14,102		303	S-1543	Updated FISH Data
Oneco Elementary School	6	2000 53rd Avenue East	Bradenton	34203	R	G	501	12,523		297	S-1543	not shelter, 4.2' SLOSH
Palmetto Elemetary School	1	1540 10th St W.	Palmetto	34221								not shelter, 4.2' SLOSH
Prine Elementary School	1	3801 Southern Paerkway	Bradenton	34205	N	G	2,054	37,733		2,054	L	not done?
Rowlett, William Monroe Elementary School	1	3500 9th Street East	Bradenton	34208	N	G	0	0			F,S	Updated FISH Data
Rowlett, William Monroe Elementary School	3	3500 9th Street East	Bradenton	34208	N	G	616	15,410		530	HMGP	
Rowlett, William Monroe Elementary School	4	3500 9th Street East	Bradenton	34208	R	G	0	0		0		Updated FISH Data
Rowlett, William Monroe Elementary School	6 Classroom	3500 9th Street East	Bradenton	34208	N	G	425	7,075	0	425	L,S	Built 2009
Seabreeze Elementary School	1 Cafeteria	3601 71st Street West	Bradenton	34209	R	G	0	5,968		0	HMGP	Built 1990 (FISH): Updated FISH Data
Seabreeze Elementary School	2 Classroom	3601 71st Street West	Bradenton	34209	R	G	449	6,736		520	S-1118A	Built 1990 (FISH): Updated FISH Data
Seabreeze Elementary School	3 Classroom	3601 71st Street West	Bradenton	34209	R	G	437	6,559		521	HMGP	Built 1990 (FISH): Updated FISH Data
Seabreeze Elementary School	4 Classroom	3601 71st Street West	Bradenton	34209	R	G	353	5,294		460	HMGP	Built 1990 (FISH): Updated FISH Data
Seabreeze Elementary School	5 Classroom	3601 71st Street West	Bradenton	34209	R	G	465	7,628		465	HMGP	Updated FISH Data, 1.1' SLOSH
State College of Florida, Manatee		5840 26th Street West	Bradenton	34210			0	0	173			
Tillman Elementary School	3	1415 29th Street East	Palmetto	34221	R	G	0	0		530	HMGP	Updated FISH Data, 1.1' SLOSH
Tillman Elementary School	4	1415 29th Street East	Palmetto	34221	R	G	0	0		145	HMGP	Updated FISH Data
Virgil Mills Elementary School	1 Admin / Media / MultiPupose / Clinic	7200 69th Street East	Palmetto	34221	N	G, A	1,588	39,695		1,484	L	Built 2004 EHPA: Updated FISH Data
Willis Elementary School	1	14705 The Masters AVE	Bradenton	34202	N	G	1,764	42,938		1,764	L, S	Updated FISH Data,10.1' SLOSH
Witt Elementary School	3	200 Rye Road	Bradenton	34202	R	G	0	0		520	HMGP	Updated FISH Data,10.1' SLOSH
Witt Elementary School	4	200 Rye Road	Bradenton	34202	R	G	0	0		418	HMGP	Updated FISH Data,10.1' SLOSH
Witt Elementary School	5	200 Rye Road	Bradenton	34202	R	G	0	0		394	HMGP	
				TOTALS FOR MANATEE COUNTY			**30,504**	**630,494**	**173**	**37,269**	**0**	

	Shelter Capacity In People	**Shelter Demand In People**	**Surplus/ Deficit In People**	**Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**30,504**	**24,060**	**6,444**	**630,494**			**149,294**	**SURPLUS**				

Special Needs Storm Shelters

Name	**Bldg #**	**Address**	**City**	**Zip**	**Retrofitted (R), New Construction (N)**	**General (G), PSN (P), Pet-Friendly (A)**	**SpNS Capacity (spaces @ 60sf) (meets ARC 4496)**	**SpNs Capacity (sf) (meets ARC 4496)**	**SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)**	**Local Planned Usage**	**Funding Source: Local (L), State (S), Federal (F), and Program Name**	**Comments**
Manatee Tech Institute	1 Vocational Classroom	5520 Lakewood Ranch	Bradenton	34202	N	P	193	11,788		193		Built 2001; EHPA
R. Dan Nolan MS	1	6615 Greenbrook Blvd	Bradenton	34202	N	P	740	59,175		571		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**933**	**500**	**433**	**55,980**			**25,980**	**SURPLUS**				

MARION

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Anthony Elementary School		9501 NE Jacksonville Road	Anthony	32617			0	0				
Belleview Elementary School		5556 SE Agnew Road	Belleview	34420			0	0				
Belleview High School	7 Gym	10400 SE 36th Avenue	Belleview	34420		P	0	0				
Belleview High School	3 Classroom	10400 SE 36th Avenue	Belleview	34420	R/N	P	0	0	0	32	S, L	SpNS
Belleview High School	4 Classroom	10400 SE 36th Avenue	Belleview	34420	R/N	P	0	0	0	128	S, L	SpNS
Belleview High School	5 Classroom	10400 SE 36th Avenue	Belleview	34420	R/N	P	0	0		46	S, L	SpNS
Belleview High School	10 Classroom	10400 SE 36th Avenue	Belleview	34420	R/N	P	0	0		111	S, L	SpNS
Belleview Middle School	2 Classroom	10500 SE 36th Avenue	Belleview	34420	R	G	522	10,446		473	HMGP	DEM updated 2014 per LRDM
Belleview Middle School	3 Classroom	10500 SE 36th Avenue	Belleview	34420	R	G	545	10,899		430	HMGP	DEM updated 2014 per LRDM
Belleview Middle School	4 Classroom	10500 SE 36th Avenue	Belleview	34420	R	P	0	0			HMGP	SpNS
Belleview Middle School	8 Gymnasium	10500 SE 36th Avenue	Belleview	34420		G	0	0		1,529		11,248 sqft; 2014 Per DEM LRDM does not meet ARC 4496
Belleview-Santos Elementary School		9600 South US Hwy 441	Belleview	33420			0	0				
Center of Hope		320 NW 1st Avenue	Ocala	34470			0	0				
Central Florida Community College		3001 SW College Road	Ocala	34474			0	0				
College Park Elementary School		1330 SW 33rd Avenue	Ocala	34474			0	0				
Community Education Center		1014 SW 7th Road	Ocala	34470			0	0				
Dr. N.H. Jones Elementary School		1900 SW 5th Street	Ocala	34474			0	0				
Dunellon ES		10235 SW 180th Avenue	Dunnellon	34432		G	0	0				
Dunnellon High School	23	10055 SW 180th Ave Rd	Dunnellon	34432		G	251	6,125		251	S-1923-3902	
Dunnellon High School	24	10055 SW 180th Ave Rd	Dunnellon	34432		G	334	6,363		334	S-1923-3902	
Dunnellon Middle School		21005 Chestnut Street	Dunnellon	34432		G	0	0	309			
East Marion Elementary School		14550 NE 14th St Rd	Silver Springs	34488			0	0				
Eighth Street Elementary School		513 SE 8th STreet	Ocala	34470			0	0				
Emerald Shores Elementary School		404 Emerald Road	Ocala	34472			0	0				
Evergreen Elementary School		4000 NE W Anthony Road	Ocala	34471			0	0				
Fessenden Elementary School		4200 NW 90th Street	Ocala	34470			0	0				
First Baptist Church of Belleview		6107 SE Agnew Road	Belleview	34420			0	0				
Forest High School	4 Gym	5000 SE Maricamp	Ocala	34480	N	G	853	21,337		638	S, L	EHPA
Forest High School	3 Auditorium Music/Band	5000 SE Maricamp	Ocala	34480	N	G	454	11,345		267	S, L	EHPA
Forest High School	2 Cafeteria	5000 SE Maricamp	Ocala	34480	N	G	328	5,910		328	S, L	EHPA
Forest High School	11 Classroom	5000 SE Maricamp	Ocala	34480			0	0				
Fort King Middle School		545 NE 17th Avenue	Ocala	34470		G	0	0				
Fort McCoy Elementary / Middle School	12 Classroom	16160 N Highway 315	Fort McCoy	32134		G	279	5,573	765	765		EHPA: Added by DEM 2014 per LRDM
Fort McCoy School	4 Classroom	16160 N Highway 315	Fort McCoy	32134	R	G	214	4,592		214	HMGP	
Fort McCoy School	5 Classroom	16160 N Highway 315	Fort McCoy	32134	R	G	155	3,873		123	HMGP	
Fort McCoy School	6 Classroom	16160 N Highway 315	Fort McCoy	32134	R	G	214	4,592		214	HMGP	
Fort McCoy School	8 Classroom	16160 N Highway 315	Fort McCoy	32134	R	G	214	4,592		214	HMGP	
Greenway Elementary School		207 Midway Road	Ocala	34472		G	0	0				
Hammett Bowen, Jr ES	1 area A 1&2 Flr Clsrm	4397 SW 95th Street	Ocala	34476	N	G	601	12,025		1,249		EHPA: DEM Added 2014 per LRDM
Hammett Bowen, Jr ES	1 area B 1&2 Flr Classroom	4397 SW 95th Street	Ocala	34476	N	G	747	14,938				EHPA: DEM Added 2014 per LRDM
Hammett Bowen, Jr ES	1 Area C Café	4397 SW 95th Street	Ocala	34476	N	G	220	4,404				EHPA: DEM Added 2014 per LRDM
Harbour View Elementary School		8445 SE 147th Street	Summerfield	34491			0	0				
Hillcrest School		3143 SE 17th Street	Ocala	34470			0	0				

MARION

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Horizon Academy (4-8 Mid school)	1 A&B Gymnasium	365 Marion Oaks Drive	Ocala	34473	N	G	605	12,096		755	L	EHPA: DEM Added 2014 per LRDM
Horizon Academy (4-8 Mid school)	1 C&D Café & Classroom	365 Marion Oaks Drive	Ocala	34473	N	G	487	9,749				EHPA: DEM Added 2014 per LRDM
Howard Middle School		1108 NW Martin Luther King	Ocala	34470			0	0				
Lake Weir Hign School	2 Cafeteria	10351 SE Maricamp Road	Ocala	34472	R	G	401	8,012		304	L	EHPA: DEM Added 2014 per LRDM
Lake Weir High School	3 Classroom	10351 SE Maricamp Road	Ocala	34472	R	G	1,242	31,959		1,242	HMGP	per schoolboard, retrofitted 2002. DEM Added 2014 per LRDM
Lake Weir Middle School		10220 SE Sunset Harbor	Summerfield	34491		G	0	0				
Liberty MS (Middle School CC)	1 Gym / Café / Classroom	4773 SW 95th Street	Ocala	34476	N	G	952	23,802		832	L	EHPA
Liberty MS (Middle School CC)	1 A & B Gym	4773 SW 95th Street	Ocala	34476	N	G	577	11,539				EHPA: DEM Added 2014 per LRDM
Liberty MS (Middle School CC)	1 C&D Café & Clsrm	4773 SW 95th Street	Ocala	34476	N	G	483	9,665				EHPA: DEM Added 2014 per LRDM
Madison Street Academy	1 Classroom	1239 NW 4th Street	Ocala	34470	N	G	1,198	23,962		370	S, L	EHPA: DEM Added 2014 per LRDM
Maplewood Elementary School		4751 SE 24th Street	Ocala	34470		G	0	0	100			
Maplewood Elementary School		4751 SE 24th Street	Ocala	34470		G	0	0	350			
Marion Institute of Technology (0ld Forest HS)		1614 SE Fort King Street	Ocala	34470			0	0				
North Marion High School		151 W Highway 329	Citra	32113			0	0				
North Marion Middle School	3 caféteria	2085 NW 28th Street	Citra	32113	N	G	227	4,548		227		FISH 2010; DEM LRDM 2014 EHPA
Oakcrest Baptist Church		1109 NE 28th Street	Ocala	34470			0	0				
Oakcrest Elementary School		1112 NE 28th Street	Ocala	34470			0	0				
Ocala City Auditorium		836 NE Sanchez Avenue	Ocala	34470			0	0				
Ocala Springs Elementary School		5757 NE 40th Ave Rd	Ocala	34470			0	0				
Osceola Middle School		526 SE Tuscawilla Avenue	Ocala	34471			0	0				
Phoenix Center		2091 NE 35th Street	Ocala	34470			0	0				
Queen of Peace Catholic Church		6455 SW SR 200	Ocala	33474			0	0				
Reddick Collier Elementary School		4595 W Highway 316	Reddick	32686			0	0				
Romeo Elementary School		19550 SW 36th Street	Dunnellon	34432			0	0				
Saddlewood Elementary School	1	3700 SW 43rd Court	Ocala	34473	N	G	0	0			S, L	changed to Media Ctr / Admin
Saddlewood Elementary School	4 Classroom Wing	3700 SW 43rd Court	Ocala	34473	N	G	0	0		196		DEM updated 2014 per LRDM Survey
Saddlewood Elementary School	5 Classroom	3700 SW 43rd Court	Ocala	34473	N	G	262	5,230		152	S, L	DEM Added 2014 per LRDM Survey
Saddlewood Elementary School	6 Cafeteria	3700 SW 43rd Court	Ocala	34473	N	G	194	3,885		152	S, L	DEM updated 2014 per LRDM Survey
Saddlewood Elementary School	8 Classroom	3700 SW 43rd Court	Ocala	34473	N	G	189	3,777		152	S, L	DEM Added 2014 per LRDM Survey
Shady Hill Elementary School		5959 S Magnolia Avenue	Ocala	34470			0	0				
South Ocala Elementary School		2831 SE Lake Weir Avenue	Ocala	34470			0	0				
Sparr Elementary School		2525 E Highway 329	Ocala	32192			0	0				
St. Jude Catholic Community Church		443 Marion Oaks Drive	Ocala	34474			0	0				
Stanton-Weirsdale Elementary School		16700 SE 134th Terrace	Weirsdale	32195			0	0				
Sunrise Elementary School		375 Marion Oaks Course	Ocala	34473			0	0				

MARION

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Vanguard High School	1 Classroom	7 NW 28th Street	Ocala	34470	R	G	1,255	25,108		1,032	F,S	DEM updated 2014 per LRDM Survey. Retrofitted in 2002.
Vanguard High School	2 Classroom	7 NW 28th Street	Ocala	34470	N	G	387	5,810		227	L	Built 2007. EHPA
Vanguard High School	3 Classroom	7 NW 28th Street	Ocala	34470	N	G	387	5,812		176		Built 2007. EHPA
Vanguard High School	5 Cafeteria	7 NW 28th Street	Ocala	34470	N	G	386	5,789		274		Built 2007. EHPA
Vanguard High School	4 Classroom	7 NW 28th Street	Ocala	34470		G, A	0	0				Built 1971. Pets Only
Ward-Highlands Elementary School		537 SE 36th Street	Ocala	34471			0	0				
West Port HS	1 Gymnasium	3733 SW 80th Avenue	Ocala	34482	N	G, P	563	11,261		572	S, L	EHPA
West Port HS	6 Auditorium	3733 SW 80th Avenue	Ocala	34482	N	G	629	12,582				DEM updated 2014 per LRDM Survey
Wyomina Park Elementary School		511 NE 12th Avenue	Ocala	34470			0	0				
						TOTALS FOR MARION COUNTY	**16,356**	**341,600**	**1,524**	**14,009**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**16,356**	**18,166**	**-1,811**	**341,600**			**-21,720**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Belleview HS	3 Classroom (1st Floor)	10400 SE 36th Avenue	Belleview	34420		P	68	4,060		19	S/L	Built 1994 (FISH). LRDM 2013
Belleview HS	4 Classroom	10400 SE 36th Avenue	Belleview	34420		P	236	14,213		115		
Belleview HS	5 Classroom	10400 SE 36th Avenue	Belleview	34420		P	122	9,750		61		
Belleview HS	10 Classroom	10400 SE 36th Avenue	Belleview	34420		P	183	14,603		96		
Belleview HS	8 Media	10400 SE 36th Avenue	Belleview	34420		P	0	0		500		Does Bldg meet ARC 4496?
Belleview MS	4 Classroom	10500 SE 36th Avenue	Belleview	34420		P	210	12,582		157		DEM updated 2014 per LRDM Survey
Westport HS	1 Gymnasium	3733 SW 80th Avenue	Ocala	34482		G, P	122	7,320		122		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**940**	**1,000**	**-60**	**56,422**			**-3,578**	**DEFICIT**			

MARTIN

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bessey Creek ES		2201 SW Matheson Ave	Palm City	34990	R	G	850	17,000		0	F/S	
Challenger School		5200 SE Willoughby Blvd	Stuart	34987	R	P	300	12,000		0	F/S	SpNS
Citrus Grove Elementary	1 ESE / Classroom	2527 SW Citrus Blvd.	Palm City	34990	N	G	1,300	26,000	0	1,300		Built 2007
Crystal Lake ES		2095 SW 96th Street	Stuart	34997	R	G	849	16,980		0	F/S	
Felix Williams School		401 NW Baker Street	Stuart	34994	R	G	850	17,000		850		pot 2.3 ft of surge . 6.072 elev.
Hidden Oaks Middle School	2 & 3	2801 SW Martin Highway	Palm City	34990	R	G	2,036	40,720		1,500	F/S	per PBSJ report.
Hidden Oaks Middle School	4 & 5	2801 SW Martin Highway	Palm City	34990	R	G	0	0		0		Location not to be used as shelter
Hidden Oaks Middle School	6	2801 SW Martin Highway	Palm City	34990	R	G	0	0		0		Location not to be used as shelter
Hidden Oaks Middle School	7	2801 SW Martin Highway	Palm City	34990	R	G	0	0		0		Location not to be used as shelter
Hidden Oaks Middle School	8	2801 SW Martin Highway	Palm City	34990	R	G	0	0		0		Location not to be used as shelter
Indiantown Middle School	2 & 4	16303 SW Farm Road	Indiantown	34956	N	G	1,050	18,823		1,050	L	
JD Parker Elementary School	1	1050 East 10th St	Stuart	34996	N	G	1,940	38,800		1,940	L/S	County: Facilities EHPA Compliant
Jensen Beach ES		2525 NE Savanna Road	Jensen Beach	34857	R	G	1,300	29,000		0	F/S	
Jensen Beach HS	4	2875 Goldenrod Rd	Jensen Beach	34957	N	G	3,500	62,054		3,500	F/S	AS-IS.
Jensen Beach HS	3	2875 Goldenrod Rd	Jensen Beach	34957	N	G	1,247	24,936		0	L	
Jensen Beach HS	5	2876 Goldenrod Rd	Jensen Beach	34958	N	G	335	6,698		0		
Palm City Elementary School		1951 SW 34th Street	Palm City	34990			0	0				not available in 2004.
Pinewood ES	2	5200 SE Willoughby Blvd	Stuart	34997		G	190	3,799		0		need to confirm ASCE-7.
Pinewood ES	3	5200 SE Willoughby Blvd	Stuart	34997		G	193	3,865		0		need to confirm ASCE-7.
Pinewood ES	4	5200 SE Willoughby Blvd	Stuart	34997		G	342	6,830		0		need to confirm ASCE-7.
Pinewood ES	7	5200 SE Willoughby Blvd	Stuart	34997		G	248	4,950		0		need to confirm ASCE-7.
Pinewood ES	8	5200 SE Willoughby Blvd	Stuart	34997		G	123	2,463		0		need to confirm ASCE-7.
Pinewood ES	9	5200 SE Willoughby Blvd	Stuart	34997		G	239	4,783		0		need to confirm ASCE-7.
Pinewood ES	10 Classroom	5201 SE Willoughby Blvd	Stuart	34998	N	G	249	4,996		0		EHPA. Built 2007
Port Salerno Elementary School	1 Classroom	4890 SE Jack Ave	Stuart	34997	N	G	1,300	26,000		1,300	F/S	per PBSJ report.
Port Salerno Elementary School	2	4890 SE Jack Ave	Stuart	34997	N	G	0	0		0		Location not to be used as a shelter
Seawind Elementary School	2, 3, 5, 6	3700 SE Seabranch Blvd	Stuart	33455	R	G	850	15,998		850	F/S	
Seawind Elementary School	9 Classroom	3701 SE Seabranch Blvd	Stuart	33456	N	G	320	6,394		0		EHPA. Built 2008
South Fork		10205 SW Pratt & Whitney	Stuart	34997			0	0		0		not a hurricane shelter
Warfield Elementary School	21 & 24	15261 SW 50th Street	Indiantown	34956	N	G	450	10,682		450	L	
TOTALS FOR MARTIN COUNTY							**20,061**	**400,771**	**0**	**12,740**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**20,061**	**5,331**	**14,730**	**400,771**			**294,151**	**SURPLUS**			

MARTIN

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Challenger School ES		5200 SE Willoughby Blvd	Stuart	34987		P	300	18,000		0		Backup SpNs
David L. Anderson MS	1 - Aud. & Cafeteria	7000 SE Atlantic Ridge Dr	Stuart	34997		P	142	8,563				
David L. Anderson MS	2	7000 SE Atlantic Ridge Dr	Stuart	34997	N	P	213	12,801				
David L. Anderson MS	3	7000 SE Atlantic Ridge Dr	Stuart	34997	N	P	218	13,085				
David L. Anderson MS	4	7000 SE Atlantic Ridge Dr	Stuart	34997	N	P	223	13,370				
David L. Anderson MS	5- Gym	7000 Sw Atlantic Ridge Dr	Stuart	34997		P	273	16,412		300		
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**1,369**	**400**	**969**	**82,140**			**58,140**	**SURPLUS**				

MIAMI-DADE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
American Senior High	1	12850 NW 67th Avenue	Miami	33015	R	G	4,014	100,340		2,558	S-1523-2002	updated FISH
American Senior High	4	12850 NW 67th Avenue	Miami	33015	R	G	151	3,786		0	S-1523-2002	updated FISH
Andover Middle School	01A Admin / Clinic / Media	121NE 207th Street	Miami Gardens	33179	N	G	98	1,957				2015 LRDM Survey. Built 2006
Andover Middle School	02C East Part Classroom	121NE 207th Street	Miami Gardens	33179	N	G	66	1,328				2015 LRDM Survey. Built 2006
Andover Middle School	02C north Part Classroom	121NE 207th Street	Miami Gardens	33179	N	G	276	5,520				2015 LRDM Survey. Built 2006
Andover Middle School	02C South Part Classroom	121NE 207th Street	Miami Gardens	33179	N	G	217	4,339				2015 LRDM Survey. Built 2006
Andover Middle School	03D East Part Classroom	121NE 207th Street	Miami Gardens	33179	N	G	276	5,528				2015 LRDM Survey. Built 2006
Andover Middle School	03D South Part Classroom	121NE 207th Street	Miami Gardens	33179	N	G	132	2,644				2015 LRDM Survey. Built 2006
Andover Middle School	03D West Part Classroom	121NE 207th Street	Miami Gardens	33179	N	G	207	4,138				2015 LRDM Survey. Built 2006
Andover Middle School	04B Classroom	121NE 207th Street	Miami Gardens	33179	N	G	187	3,743				2015 LRDM Survey. Built 2006
Andover Middle School	05F Dining	121NE 207th Street	Miami Gardens	33179	N	G	280	5,605				2015 LRDM Survey. Built 2006
Arvida Middle	1	10900 SW 127th Avenue	Miami	33186		G	0	0		700		in Cat 4 surge Zone
Ashe, Bowman Elementary School		6601 SW 152nd Avenue	Miami	33193		G	0	0		1,386		Per 2010 SESP, possible Cat 5 Zone
Bent Tree Elementary School	campus	4861 SW 140th Avenue	Miami	33175		G	0	0		474		F.I.S.H.;bld# 3-12 (10 total), in Cat 5 Zone
Bob Graham Education Center	8	15901 NW 79th Ave	Miami Lakes	33016		G	700	14,000				
Brentwood Elementary Senter	4	3131 NW 191st Street	Miami	33056	R	G	570	8,543		865	L	updated FISH
Bright, James Elementary School		2530 W 10th Avenue	Hialeah	33010		G	0	0		1,208		Per 2010 SESP, possible Cat 4 Zone
Calusa Elementary		9580 W Calusa Club Drive	Miami	33186		G	0	0		900		Per 2010 SESP, Cat 4 Zone
Chiles, Lawton Middle School	01 Area A Admin / Clinic	8190 NW 197 Street	Miami	33015	N	G	33	664				2015 LRDM Survey. Built 1998
Chiles, Lawton Middle School	02 Area B Classrm (3 Flrs)	8190 NW 197 Street	Miami	33015	N	G	466	9,314				2015 LRDM Survey. Built 1998
Chiles, Lawton Middle School	02 Area C Classrm (3 Flrs)	8190 NW 197 Street	Miami	33015	N	G	1,240	24,808				2015 LRDM Survey. Built 1998
Chiles, Lawton Middle School	03 Area D South Gym	8190 NW 197 Street	Miami	33015	N	G	83	1,666				2015 LRDM Survey. Built 1998
Chiles, Lawton Middle School	03 Area F north Auditorium	8190 NW 197 Street	Miami	33015	N	G	319	6,384				2015 LRDM Survey. Built 1998
Chiles, Lawton Middle School	03 Area F South Auditorium	8190 NW 197 Street	Miami	33015	N	G	322	6,439				2015 LRDM Survey. Built 1998
Chiles, Lawton Middle School	04 Classrooms	8190 NW 197 Street	Miami	33015	N	G	392	7,842				2015 LRDM Survey. Built 2005
Citrus Grove Middle School	1	21153 NW 3rd Street	Miami	33125	R	G	1,732	43,289		1,700	Hmgp	Updated FISH Data
Citrus Grove Middle School	2	21153 NW 3rd Street	Miami	33125	R	G	1,063	26,565				Updated FISH Data

MIAMI-DADE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Coral Gables SHS	15 (3story)	450 Bird Road	Coral Gables	33146	R	G	0	0			AS-IS	Updated FISH Data, possible Cat 5 Zone
Country Club Middle	1 Admin / Classroom	18305 NW 75 Place	Miami	33015	N	G	289	5,789				2015 LRDM Survey. Built 2005
Country Club Middle	02 Dinning / Stage / Classrm	18305 NW 75 Place	Miami	33015	N	G	447	8,945				2015 LRDM Survey. Built 2005
Country Club Middle	03 Area A / Classrm / P.E.	18305 NW 75 Place	Miami	33015	N	G	1,590	31,790		2,089		2015 LRDM Survey. Built 2005
Country Club Middle	03 Area B / Classrm / Media	18305 NW 75 Place	Miami	33015	N	G	770	15,401		2,089		2015 LRDM Survey. Built 2005
Doral Middle School		5005 NW 112 Avenue	Miami	33178	N, R?	G	1,360	27,200		1,360	L	per master list
Douglas, Marjory Stoneman Elementary	campus	11901 SW 2nd Street	Miami	33184	R	G	1,569	31,380		1,569		per master list
Drew, Charles Middle School		1801 NW 60th Street	Miami	33142	R	G	1,050	21,000		1,050		Per 2010 SESP;Bldg#'s required
Dunbar Elementary School		505 NW 20th Street	Miami	33127	R	G	786	15,720		786		Per 2010 SESP;Bldg#'s required
Fascell, Dante Elementary School		15625 SW 80th Street	Miami	33193		G	0	0		931		Per 2010 SESP;Bldg#'s required, possible Cat 5 zone
Finlay, Carlos Elementary	1	851 SW 117 Avenue	Miami	33174		G	0	0		1,407		Updated FISH Data, LPU total, possible Cat 5 zone
Finlay, Carlos Elementary	3	851 SW 117 Avenue	Miami	33174		G	0	0				Updated FISH Data, possible Cat 5 Zone
Finlay, Carlos Elementary	4	851 SW 117 Avenue	Miami	33174		G	0	0				Updated FISH Data, possible Cat 5 Zone
Florida Int University (Univ Park Campus)	Dorms	11200 SW 8th Street	Miami	33165		G	0	0				For FIU students only
G. Holmes Braddock HS	5	3601 SW 147th ave	Miami	33186	N	G	604	12,082				EHPA
Goleman Senior High	1 & 4	14100 NW 89th Avenue	Miami	33016	R	G				800	s-1523-2002	
Goleman Senior High	1 Classroom	14100 NW 89th Avenue	Miami	33016	R	G	2,532	50,647			s-1523-2002	Surveyed 9/2014
Goleman Senior High	3 Auditorium	14100 NW 89th Avenue	Miami	33016	R	G	466	9,315				Surveyed 9/2014
Goleman Senior High	4 Classroom	14100 NW 89th Avenue	Miami	33016	R	G	536	10,717			s-1523-2002	Surveyed 9/2014
Goleman Senior High	5 Classroom	14100 NW 89th Avenue	Miami	33016	R	G	324	6,471				Surveyed 9/2014
Goleman High School	8 Classroom	14100 NW 89th Avenue	Miami	33016	R	G	517	10,341			s-1523-2002	Surveyed 9/2014
Goleman High School	9 PE & Science Classroom	14100 NW 89th Avenue	Miami	33016	R	G	508	10,160			s-1523-2002	Surveyed 9/2014
Goleman High School	8 & 9	14100 NW 89th Avenue	Miami	33016	R	G				1,356	s-1523-2002	
Goleman Senior High	12 Classroom	14100 NW 89th Avenue	Miami	33016	R	G	332	6,642				Surveyed 9/2014
Greynolds Park Primary Learning Center		1575 NE 177 Street	N Miami Beach	33162		G				517		Per 2010 SESP;Bldg#'s required
Greynolds Park Primary Learning Center	11 Classroom	1536 NE 179 Street	N Miami Beach	33162		G	64	1,275				Surveyed 9/2014; Per Miami Dade; HES Building and site is within Hurricane Storm Surge Planning Zone E, Blue, Grid T3.
Greynolds Park Primary Learning Center	12 Classroom	1536 NE 179 Street	N Miami Beach	33162		G	113	2,261				Surveyed 9/2014; Per Miami Dade; HES Building and site is within Hurricane Storm Surge Planning Zone E, Blue, Grid T3.
Greynolds Park Primary Learning Center	13 Classroom	1536 NE 179 Street	N Miami Beach	33162		G	69	1,389				Surveyed 9/2014; Per Miami Dade; HES Building and site is within Hurricane Storm Surge Planning Zone E, Blue, Grid T3.
Greynolds Park Primary Learning Center	14 Classroom	1536 NE 179 Street	N Miami Beach	33162		G	46	926				Surveyed 9/2014; Per Miami Dade; HES Building and site is within Hurricane Storm Surge Planning Zone E, Blue, Grid T3.
Greynolds Park Primary Learning Center	15 Classroom	1536 NE 179 Street	N Miami Beach	33162		G	393	7,864				Surveyed 9/2014; Per Miami Dade; HES Building and site is within Hurricane Storm Surge Planning Zone E, Blue, Grid T3.
Hall, Joe Elementary School	2 thru 8	1901 SW 134th Avenue	Miami	33175		G	914	20,907		914		no surge
Hammocks Middle School		9889 Hammocks Blvd	Miami	33196		G	0	0		1,467		Per 2010 SESP;Bldg#'s required, possible Cat 5 zone
Hartner Elementary School		401 NW 29th Street	Miami	33127		G	1,306	26,120		1,306		Per 2010 SESP;Bldg#'s required
Hialeah Gardens Senior High	7	11700 Hialeah Gardens Blvd	Hialeah Gardens	33018	N	G	2,934	58,688				per master list
Hialeah Senior		251 East 49 Street	Hialeah	33013	N	G	1,352	27,040		1,352	L	2010 SESP
Hialeah-Miami Lakes High School		7977 W 12th Avenue	Hialeah	33014		G	1,264	25,280		1,264		Per 2010 SESP; Bldg#'s required
Highland Oaks Middle School		2375 NE 203rd Street	N Miami Beach	33180		G	0	0		2,050		Per 2010 SESP; Bldg#'s required, in Cat 5 Zone
Hoover, Oliver Elementray		9050 Hammocks Blvd	Miami	33196		G	0	0		1,273		Per 2010 SESP; Bldg#'s required, possible Cat 5 zone
Jorge Mas Canosa Middle	2, 3	15735 SW 144 Street	Miami	33196	N	G	0	0		3,340		EHPA; Room#'s required, in Cat 4 Zone
Kinloch Park Middle		4340 NW 3rd street	Miami	33126		G	1,336	26,720				
Dr Michae M Krop HS		1410 NE County Line Road	N Miami Beach	33179		G, A				3,383		Per 2010 SESP

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Dr Michae M Krop HS	1 (area G3A) Admin, Classroom Resource	1410 NE 215 Street	Ives Estates	33179	R	G	52	1,040				Surveyed 9/2014
Dr Michae M Krop HS	2 (area A3A) Classroom	1410 NE 215 Street	Ives Estates	33179	R	G	1,546	30,926				Surveyed 9/2014
Dr Michae M Krop HS	2 (area A3B) Classroom	1410 NE 215 Street	Ives Estates	33179	R	G	1,197	23,939				Surveyed 9/2014
Dr Michae M Krop HS	2 (area A3C) Classroom	1410 NE 215 Street	Ives Estates	33179	R	G	1,029	20,572				Surveyed 9/2014
Dr Michae M Krop HS	3 (area D3A) Gymnasium	1410 NE 215 Street	Ives Estates	33179	R	G	0	0				Surveyed 9/2014. Needs Fenestration protection
Dr Michae M Krop HS	3 (area D3B) Classroom	1410 NE 215 Street	Ives Estates	33179	R	G	69	1,376				Surveyed 9/2014
Dr Michae M Krop HS	3 (area E3) Cafeteria	1410 NE 215 Street	Ives Estates	33179	R	G	284	5,670				Surveyed 9/2014
Dr Michae M Krop HS	3 (area F3A) Classroom	1410 NE 215 Street	Ives Estates	33179	R	G	183	3,668				Surveyed 9/2014
Dr Michae M Krop HS	3 (area F3B) Auditorium, Classroom	1410 NE 215 Street	Ives Estates	33179	R	G	361	7,220				Surveyed 9/2014
Dr Michae M Krop HS	3 (area F3C) Classroom, Music & PE Multipurpose	1410 NE 215 Street	Ives Estates	33179	R	G	417	8,345				Surveyed 9/2014
Florida International University - Modesto A Maidique Campus	Golden Panther Arena (GPA), Multi-Purpose Lobby	10810 SW University Dr	Miami	33174	N	G	576	11,515				Based on 2014 LRDM Survey
Lake Stevens Elementary School		5101 NW 183rd Avenue	Miami	33055		G	1,018	20,360		1,018		Per 2010 SESP; Bldg#'s required
Lorah Park Elementary School		5160 NW 31st Avenue	Miami	33142		G	840	16,800		840		Per 2010 SESP; Bldg#'s required
Miami Central Senior	Gym	1781 NW 95th street	Miami	33147	N	G	1,718	34,351				EHPA
Miami Carol City Senior High School	1A Admin, Media & Classroom	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	520	10,406				2014 LRDM
Miami Carol City Senior High School	1B Admin, Media & Classroom	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	307	6,140				2014 LRDM
Miami Carol City Senior High School	1C Classroom, Art & Science	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	999	19,972				2014 LRDM
Miami Carol City Senior High School	1D Classroom / Vocational-Tech	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	337	6,734				2014 LRDM
Miami Carol City Senior High School	3A Gymnasium	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	1,131	22,615				2014 LRDM
Miami Carol City Senior High School	3B Lockers / Classroom	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	190	3,806				2014 LRDM
Miami Carol City Senior High School	4A Auditorium, Stage, Mecvh area & Emerg Gen	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	404	8,080				2014 LRDM
Miami Carol City Senior High School	4 B Music Classroom	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	276	5,523				2014 LRDM
Miami Carol City Senior High School	4C Cafeteria	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	605	12,106				2014 LRDM
Miami Carol City Senior High School	5 Vocational	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	102	2,038				2014 LRDM
Miami Carol City Senior High School	6 Classroom	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	1,129	22,576				2015 LRDM Survey. Built 2007
Miami Carol City Senior High School	7 Admin, Clinic & ESE Classroom	3301 Miami Gardens Drive	Miami Gardens	33056	N	G	485	9,700				Surveyed 10/2014
Miami Coral Park High School	1	8865 SW 16th Street	Miami	33165	R	G	0	0		1,131		Per 2010 SESP; Room#'s required, possible Cat 5 zone
Miami Coral Park Senior	4	8865 SW 16 Street	Miami	33165	N	G	0	0				Per 2010 SESP;Room#'s required, possible Cat 5 zone

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MDC West Miami Dade College	1000 Multipurpose / Café	3800 NW 115th Avenue	Doral	33178	N	G	3,262	65,236				2014 LRDM
MDC West Miami Dade College	2000 Classroom	3800 NW 115th Avenue	Doral	33178	N	G	1,355	27,101				2014 LRDM
Miami -Dade Homeless Assistance center					R	G	1,000	20,000		1,000	L,S	
Miami Killian High School		10655 SW 97th Avenue	Miami	33176		G	420	8,400		420		Per 2010 SESP; Bldg#'s required
Miami Lakes Education Center	6	5780 NW 158th Street	Miami Lakes	33014		G	500	10,000				
Miami Norland Senior High	18 Gym	1050 NW 195th Street	Miami	33169	N	G	687	15,239		687	L	Updated FISH Data
Miami Northwestern High School	1	7007 NW 13th Avenue	Miami	33150	R	G	2,420	48,400		2,420	S-1523-2002	Per 2010 SESP; Room#'s required
Miami Palmetto Senior High		7460 SW 118th Street	Miami	33156		G	0	0		2,313		Per 2010 SESP; Bldg#'s required, in Cat 5/4 Zone
Miami Shores Elementary School		10351 NE 5th Avenue	Miami	33138		G	244	3,654		287		per master list
Miami Southridge Senior High	1	19355 SW 114th Street	Miami	33157	R	G	0	0		1,082		Per 2010 SESP; Room#'s required, in cat 3/4 zone
Miami Springs High	1	751 Dove Avenue	Miami Springs	33166	R	G	0	0		3,000	L, S - HMGP	Per 2010 SESP; Room#'s required, in cat 5/4 zone
Miami Sunset High	1 & 4	13125 SW 72nd Street	Miami	33183	R	G	0	0		2,440	S-1523-2002	Per 2010 SESP; Room#'s required, in possible cat 5 zone
Morgan, Robert Senior High	18	18180 SW 122 Avenue	Miami	33177	N	G	546	10,913		1,000	L	Updated FISH Data
Morgan, Robert Senior High	15	18180 SW 122 Avenue	Miami	33177		G	619	12,385			L	Per 2010 SESP; Room#'s required
Morgan, Robert Senior High	16	18180 SW 122 Avenue	Miami	33177		G	557	11,136			L	Per 2010 SESP; Room#'s required
Morgan, Robert Senior High	17-Gym	18180 SW 122 Avenue	Miami	33177		G	867	17,332			L	Per 2010 SESP; Room#'s required
North Miami Beach High School	7	1247 NE 167th Street	N Miami Beach	33162	R	G	1,066	15,997		3,152		per master list
North Miami High School		13110 NE 8 Avenue	N Miami	33162	R	G	549	8,230		1,000		per master list
North Miami Middle School	Campus	13105 NE 7th Avenue	N Miami Beach	33161	R	G	991	24,772		450	L, S	Per 2010 SESP; Room#'s required
North Miami Middle School	1 & 2	700 NE 137 St	North Miami	33161	N	G	506	10,136	506			not yet surveyed
Norwood Elementary School	4, 6	19810 NW 14th Court	Miami	33169	R	G	368	5,519		895		Per 2010 SESP; Room#'s required
Olinda Elementary School	7	5536 NW 21st Avenue	Miami	33142	R	G	357	5,361		899		per master list
Orchard Villa Elementary School	1	5720 NW 13th Avenue	Miami	33142	R	G	1,067	16,011		1,179		per master list
Owens, Ruth Kruse Elementary School		11001 SW 76th Street	Miami	33173	R	G	0	0		741	L	;2010 SESP, 17.1' SLOSH
Palm Lakes Elementary School	5	7450 W 16th Avenue	Hialeah	33014	R	G	653	16,332		649		per master list
Palm Springs North Elementary School		17615 NW 82nd Avenue	Hialeah	33015	R	G	982	14,714		1,029		per master list
Pepper, Claude Elementary School		14550 SW 96th Street	Miami	33186	R	G	0	0		1,258		Per 2010 SESP; Bldg#'s required, in Cat 5 Zone
Pharr, Kelsey Elementary School	1,5	2000 NW 46th Street	Miami	33142	R	G	499	9,979		511		per master list
Porter, Gilbert Elementary School		15851 SW 112th Street	Miami	33196	R	G	0	0		1,769		Per 2010 SESP; Bldg#'s required, in Cat 5 Zone
Reagan, Ronald Senior High		8600 NW 107th Avenue	Doral	33178	N	G	2,943	58,868		2,943	L	EHPA;2010 SESP
Reland Middle School		16001 SW 248th street	Miami	33031		G	500	10,000				
Richmond Heights Middle School		15015 SW 103rd Ave	Miami	33175		G	1,000	20,000				
Royal Green Elementary School		13047 SW 47th Street	Miami	33175	R	G	0	0		562	L	Per 2010 SESP;Bldg#'s required, in cat 5 Zone
Shenandoah Elementary School	3	1023 SW 21st Avenue	Miami	33135	R	G	758	18,955		500	L	Updated FISH
Sheppard, Ben Elementary School	1 thru 10	5700 W 24th Avenue	Hialeah	33016	R	G	1,751	28,254		1,420		per master list
South Dade Senior High	campus	28401 SW 167th Avenue	Miami	33030	R	G	0	0		3,224	L, S-HMGP	s-1523-2002;updated FISH Data, in CAT 4/5 Zone
South Dade Middle School	campus	29100 SW 194th Avenue	Miami	33030	N	G	0	0				Updated FISH Data, in CAT 4/5 zone
South Miami Senior High	campus	6858 SW 53rd Street	Miami	33155	N	G	0	0				Updated FISH Data, in CAT 4/5 zone
South Dade Senior High	4 Clas-Votek	6859 SW 53rd Street	Miami	33158	N		0	0				Updated FISH Data, in CAT 4/5 zone
South Dade Senior High	5 Clas-Arts	6860 SW 53rd Street	Miami	33159	N		0	0				Updated FISH Data, in CAT 4/5 zone
Southwest Miami Senior	5	8850 SW 50th Ter	miami	33165	N	G	1,186	47,426	1,186			not yet surveyed
Southwood Middle School	1	16301 SW 80th Avenue	Miami	33157	R	G	0	0		1,500	L, S-HMGP	S-1523-2002; updated FISH Data, in CAT 4 Zone
Stirrup Elementary School	1 thru 9	330 NW 97th Avenue	Miami	33172	R	G	839	20,938		775		Per 2010 SESP; Bldg#'s required
E. Darwin Fuchs Pavillion (Sunshine Pavilion @ Tamiami Park)		10901 SW 24th Street	Miami	33165	R	G, A	2,109	42,189		500		Per DEM 2013/14 LRDM
Terra Environmental Research Institute	01 Admin, Media, Classroom	11005 SW 84th Street	Miami	33173	N	G	118	44,554				Per 2014 DEM LRDM GATOR, Building and site located is inside RPC:SFRPC Category 5 surge zone, subject to 0.5' to 1.5' storm surge flood depth.
Terra Environmental Research Institute	02 Classroom, Art, Science	11005 SW 84th Street	Miami	33173	N	G	342	6,842				Per 2014 DEM LRDM GATOR, Building and site located is inside RPC:SFRPC Category 5 surge zone, subject to 0.5' to 1.5' storm surge flood depth.

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Terra Environmental Research Institute	03 Classrpoom	11005 SW 84th Street	Miami	33173	N	G	1,931	38,612				Per 2014 DEM LRDM GATOR, Building and site located is inside RPC:SFRPC Category 5 surge zone, subject to 0.5' to 1.5' storm surge flood depth.
Terra Environmental Research Institute	04A Cafeteria, Stage, Kitchen	11005 SW 84th Street	Miami	33173	N	G	381	7,620				Per 2014 DEM LRDM GATOR, Building and site located is inside RPC:SFRPC Category 5 surge zone, subject to 0.5' to 1.5' storm surge flood depth.
Terra Environmental Research Institute	04B Classroom, Music	11005 SW 84th Street	Miami	33173	N	G	181	3,611				Per 2014 DEM LRDM GATOR, Building and site located is inside RPC:SFRPC Category 5 surge zone, subject to 0.5' to 1.5' storm surge flood depth.
Terra Environmental Research Institute	06B Clsrm Physical Ed	11005 SW 84th Street	Miami	33173	N	G	99	1,973				Per 2014 DEM LRDM GATOR, Building and site located is inside RPC:SFRPC Category 5 surge zone, subject to 0.5' to 1.5' storm surge flood depth.
Thomas, W. R. Middle School		13001 SW 26th Street	Miami	33175	R	G	0	0		2,050	S-1453	Per 2010 SESP; Bldg#'s required, in CAT 4/5 zone
Van Blanton Elementary School	1,3	10327 NW 11th Avenue	Miami	33150	R	G	1,248	24,960		1,150	L, S	per master list
Varela, Felix Senior High		15255 SW 96th Street	Miami	33197	N	G	0	0		2,913	L	EHPA; 2010 SESP, possible inside CAT 5 zone
Village Green Elementary School		12265 SW 34th Street	Miami	33175	R	G	0	0		565		Per 2010 SESP; Bldg#'s required, in CAT 4/5 zone
Washington, Booker T. Senior High	12a	1200 NW 6th Avenue	Miami	33136	N	G	1,067	21,334				Updated FISH
Washington, Booker T. Senior High	13	1200 NW 6th Avenue	Miami	33136	N	G	428	8,560				Updated FISH
Washington, Booker T. Senior High	14	1200 NW 6th Avenue	Miami	33136	N	G	0	0		0	L	see SpNS
						TOTALS FOR MIAMI-DADE COUNTY	**88,467**	**1,857,533**	**1,692**	**89,366**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**88,467**	**97,855**	**-9,388**	**1,857,533**			**-99,567**	**DEFICIT**				

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
HD McMillian (2nd Tier)		13100 SW 59 street	Miami	33183	R	P	0	0		500		Per 2010 SESP; Bldg#'s required, in cat 4/5 zone
Jose Marti MS (2nd Tier)	Campus	5701 W 24th Avenue	Hialeah	33016	R	P	578	43,322		500		per master list
Miami Jackson Senior HS		1751 NW 36th Street	Miami	33142	R	P	565	33,900		565		Per 2010 SESP; Bldg#'s required
Miami Edison HS (1st Tier)		6161 NW 5th Court	Miami	33127	R	P	500	30,000		500		Per 2010 SESP; Bldg#'s required
Booker T. Washington Senior High	14 Classroom (1st, 2nd & 3rd Floors)	1200 NW 6th Avenue	Miami	33136	N	P	1,028	24,227		1,028	L	EHPA. Updated FISH Data
Rubin Dario MS (1st Tier)	1, 2	350 NW 97th Avenue	Miami	33172	R	P	637	47,731		500		per master list
John Ferguson Senior High	3, 4	15900 SW 56th St	Miami	33185	R	P	0	0		1,704		EHPA; Updated FISH Bldg#'s 3 & 4, in cat 5 zone

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**3,308**	**2,717**	**591**	**198,480**			**35,460**	**SURPLUS**				

MONROE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Coral Shores	Café	89901 Old Hwy	Islamorada	33070	R	G, A	0	0	0	237	L	surge issues, in CAT 4 zone
Florida Intl' Univ (Univ Park Campus)	PC (Primera Casa / CE Perry	11200 SW 8th Street	Miami	33165	R	G	0	0	0	1,289		Gen Pop Only
Florida Intl' Univ (Univ Park Campus)	40 - Rec Ctr (1st flr only)	11200 SW 8th Street	Miami	33199	N	G	602	10,220		602		Gen Pop Only
Key Largo School	11 Café	104801 Overseas Hwy	Key Largo	33070	R	G	0	0	0			surge issues, in CAT 2/3 zone
Key West HS	Café	2100 Flager Ave	Key West	33040		G, A	0	0	0	354	L	surge issues, in CAT 2/3 zone
Marathon Hs	Café	350 Sombrero Road	Marathon	33050		G	0	0	0			in CAT 2 zone
Poinciana ES	CAFÉ, Admin, Music and Arts		Key West			G	0	0	0		L	surge issues, in CAT 2/3 zone
St Juston's Catholic Church	Parish Hall	105500 Overseas Hwy	Key largo			G	0	0	0	250		In CAT 3 zone / used as overflow
Stanley Switlik ES	2 - Café	3400 Overseas Hwy	Marathon	33050		G	0	0	0	280	L	surge issues, in CAT 2 zone
Sugarloaf	16	RT 2 Crane RD	Sugarloaf key	33042	N	G, A	0	0	0		COPS	surge issues, in CAT 2,3,4 zone
Sugarloaf MS	café	255 Crane Rd	Sugarloaf key	33042		G	0	0	0	352	COPS	surge issues, in CAT 2,3,4 zone
							TOTALS FOR MONROE COUNTY	**602**	**10,220**	**0**	**3,364**	

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**602**	**2,590**	**-1,988**	**10,220**			**-41,580**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Florida Intl' Univ (Univ Park Campus)	40 - Rec Ctr (2nd floor only)	11200 SW 8th Street	Miami	33199	N	P	121	5,443		91		1st Flr G+10220 SF, 2nd Flr P=5443- Note Shelter dual use (G & P)

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**121**	**461**	**-340**	**7,260**			**-20,400**	**DEFICIT**			

NASSAU

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bryceville Elementary School	8 Media	6504 Church Rd	Bryceville	32009	N	G	128	2,550		64		Needs to be reviewed By EM (DEM)
Callahan Elementary School	6 Cafeteria	449618 US Hwy 301	Callahan	32011		G	0	0		326		2015 LRDM. Generator hook-up for lights only
Callahan Intermediate School	1 Main	34586 Ball Park Rd	Callahan	32011	R	G	0	0	327	326	L	Needs verification
Callahan Middle School	8& 15 Cafeteria	450121 Old Dixie Hwy	Callahan	32011	N	G, A	528	7,952		311		Bldg 8 Classroom (built 1982) is pet building only
Hilliard Elementary School	1 Main	275568 Ohio St	Hilliard	32046	R	G	326	5,618		326	L	Generator hook-up for lights only
Hilliard Elementary School	4 Classroom	275568 Ohio St	Hilliard	32046	R	G	0	0			S	FY 13-14 2571 Retrofits in-progress
Hilliard Elementary School	5 Classroom	275568 Ohio St	Hilliard	32046	R	G	0	0			S	FY 13-14 2571 Retrofits in-progress
Hilliard Elementary School	6 Classroom	275568 Ohio St	Hilliard	32046	R	G	0	0			S	FY 13-14 2571 Retrofits in-progress
Hilliard Elementary School	10 Classroom	275568 Ohio St	Hilliard	32046	R	G	0	0			S	FY 13-14 2571 Retrofits in-progress
Hillard Middle / Senior High School	15 Dining	1 Flashes Ave	Hilliard	32046	N	P, A	0	0		105	L	SpNS see below.
West Nassau Sr High School	6 Cafeteria	1 Warrior Drive	Callahan	32011	N	G	561	8,579		280	L	2nd tier, Bldg 06-09 can be used as staff / registration area
Yulee Elementary School	2 Classroom	86063 Felmore Rd	Yulee	32097	N	G, A	0	0			S	FY 13-14 2571 Retrofits in-progress
Yulee Elementary School	3 Classroom	86063 Felmore Rd	Yulee	32097	N	G, A	0	0			S	FY 13-14 2571 Retrofits in-progress
Yulee Elementary School	7 Classroom	86063 Felmore Rd	Yulee	32097	N	G, A	0	0		0		Built 1996. Building 7 is pet ONLY. Generator hook-up for lights only
Yulee Elementary School	9 Cafeteria	86063 Felmore Rd	Yulee	32097	N	G	370	5,867		185		Built 1996. Generator hook-up for lights only
Yulee High School	4 Gym & 6 Dining	85375 Miner Rd	Yulee	32097	N	G	1,373	34,325		965	L	Built 2005. EHPA. 2015 LRDM
Yulee Middle School	3, 4, 5, 6	85439 Miner Rd	Yulee	32097	N	G	965	19,302		965	L	per master list
Yulee Primary School	7 MultiPurpose	86426 Goodbread Rd	Yulee	32097		G		0	220	129		LRDM Surveyed in 2015
				TOTALS FOR NASSAU COUNTY			**4,251**	**84,193**	**547**	**3,982**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**4,251**	**5,318**	**-1,067**	**84,193**			**-22,167**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Hillard Middle / Senior School	15 Dining	1 Flashes Ave	Hilliard	32046	N	P, A	156	8,838		105	L	Bldg 06 is pet-friendly building
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**156**	**208**	**-52**	**9,360**			**-3,120**	**DEFICIT**				

OKALOOSA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Antioch Elementary School	1	4700 Whitehurst Lane	Crestview	32536	R	G, A	1,302	26,058		1,737	S-1467-2004	
Baker School	14 Kindergarten Classroom	1369 14th Street	Baker	32531	R	G	51	1,026		51	S 10/11 1617	Retrofit completed 2013
Baker School	15 Middle Classroom	1369 14th Street	Baker	32531	R	G	56	1,127		56	S 10/11 1617	Retrofit completed 2013
Baker School	17 Science Classroom	1369 14th Street	Baker	32531	R	G	228	4,555		228	S 10/11 1617	Retrofit completed 2013
Baker School	18 Auditorium / Music Classroom	1369 14th Street	Baker	32531	R	G	303	6,052		103	S 10/11 1617	Retrofit completed 2013
Choctawhatchee High School	1 E	110 Racetrack Road NW	Fort Walton Beach	32547	R	G	326	6,525		435	L	
Crestview HS	11-Classroom	1304 North Ferdon Blvd	Crestview	32536		G	304	6,080		304	S 10/11 1617	Retrofit completed 2013
Davidson Middle School	1 Main	6261 Old Bethel Road	Crestview	32536	R	G, A	2,204	44,092		3,267	S	
Kenwood Elementary School	10 Classroom	634 Eagle Street	Fort Walton Beach	32547	R	G	350	7,004		467	L	
Laurel Hill HS	8 Classroom	8078 4th Street	Laurel Hill	32567	R	G	115	2,294		115	S 10/11 1617	Retrofit completed 2013
NWF Raider Arena	T	11 E. College Blvd	Niceville	32578	N	G, A	2,025	40,500		2,500	L	
Riverside Elementary School	Wings A-B	3400 Redstone Ave	Crestview	32539	N	G	677	10,151		677		
Riverside Elementary School	Wing C-200	3400 Redstone Ave	Crestview	32539	N	G	350	5,396		360		
Riverside Elementary School	Wing D-300	3400 Redstone Ave	Crestview	32539	N	G	360	5,396		360		
Riverside Elementary School	Wing E-400	3400 Redstone Ave	Crestview	32539	N	G	360	5,396		360		
Riverside Elementary School	Wing F-500	3400 Redstone Ave	Crestview	32539	N	G	397	5,955		397		
Riverside Elementary School	Wing G-600	3400 Redstone Ave	Crestview	32539	N	G	457	6,856		457		
Shaol River Middle School	Main	3200 Redstone Ave	Crestview	32539	N	G	1,240	18,595		1,240		
Shaol River Middle School	Wing A-Gym	3200 Redstone Ave	Crestview	32539	N	G	838	12,568		838		
Shaol River Middle School	Wing B 6th grade	3200 Redstone Ave	Crestview	32539	N	G	541	8,118		541		
Shaol River Middle School	Wing C-7th grade	3200 Redstone Ave	Crestview	32539	N	G	492	7,386		492		
Shaol River Middle School	Wing D-8th grade	3200 Redstone Ave	Crestview	32539	N	G	542	8,131		542		
TOTALS FOR OKALOOSA COUNTY							**13,517**	**239,261**	**0**	**15,527**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**13,517**	**5,927**	**7,590**	**239,261**			**43,886**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Davidson Middle School	1	6261 Old Bethel Road	Crestview	32536	R	P, A	82	4,920		82	S	

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**82**	**100**	**-18**	**4,920**			**0**	**DEFICIT**			

OKEECHOBEE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
American Legion Post #64		501 SE 2nd Street	Okeechobee	34972			0	0	200			
Everglades Elementary School		3725 SE 8th Street	Okeechobee	34972			0	0	222			
First Baptist Church	Fam Life	401 SW 4th Street	Okeechobee	34972	N	G	0	0	507	507	L	
Freshman Center Auditiorium	N	610 SW 2nd Ave	Okeechobee	34972	R	G	0	0	332	332		
Ft. Drum Community Church		32415 Highway 441 North	Okeechobee	34972			0	0	120			
Moose Lodge		159 NW 36th ST	Okeechobee	34972			0	0	133			
Okeechobee Acheivment Academy	1 - Dining / Classrooms	1000 NW 34st	Okeechobee	34972	N	G	0	0				Opened 2013
North Elementary School		3000 NW 10th Terrace	Okeechobee	34972			0	0	500			
Okeechobee High School		2800 Highway 441 North	Okeechobee	34972			0	0	1,049			
Osceola Middle School	3	825 SW 21st Street	Okeechobee	34972	R	G	121	2,423		298	HMGP	Interior corridor only
Osceola Middle School	6	825 SW 21st Street	Okeechobee	34972	R	G	50	1,018		297	HMGP	Interior corridor only
Osceola Middle School	7	825 SW 21st Street	Okeechobee	34972	R	G	140	2,816		298	HMGP	Interior corridor only
Presbyterian Church		312 N Parrot Avenue	Okeechobee	34972			0	0	133			
Public Health Center		1728 NW 9th Avenue	Okeechobee	34972			0	0				
Sacred Heart Catholic Church		701 SW 6th STrret	Okeechobee	34972			0	0	667			
Seminole Elementary School	9 Classroom	2690 NW 42nd Avenue	Okeechobee	34972			0	0	222			
South Elementary School	1	575 SW 28th Street	Okeechobee	34972	N	G	1,011	20,215		1,011	L, S	
Yearling Middle School		925 NW 23rd Lane	Okeechobee	34972	R	G	500	10,000		500	HMGP	
TOTALS FOR OKEECHOBEE COUNTY							**1,822**	**36,472**	**4,085**	**3,243**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,822**	**7,342**	**-5,520**	**36,472**			**-110,368**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
TBD												
Okeechobee CHD		1728 NW 9th Avenue	Okeechobee	34972		P	0	0		66		needs ASCE-7 cert.

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**1,273**	**-1,273**	**0**			**-76,380**	**DEFICIT**			

ORANGE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Apopka High School	306 Gym	555 Martin Street	Apopka	32712	N	G	759	12,895		759		FISH Bldg 23
Apopka High School	701 Cafeteria	555 Martin Street	Apopka	32712	N	G	0	0		606	L	
Apopka Middle School	300, RM 301 Café	425 N Park Avenue	Apopka	32712			0	0	204			Building was renovated in 2011 is not EHPA. The cafeteria has 7,337 SF
Audubon Park ES	1-117 Café	1750 Common Way RD	Orlando	32814		G	310	6,194		310		
Avalon Middle School	3-Gym	13914 Mailer Blvd	Orlando	32828	N	G	615	12,295				per 2009 FDEM study
Avalon Middle School	4 Café	13914 Mailer Blvd	Orlando	32828	N	G	591	8,872		598		per FDEM study
Barnett Park Community Center		4801 W Colonial Drive	Orlando	N/A		G, A	0	0				
Bithlo Community Center Bldg		18501 Washington Avenue	Orlando	N/A		G, A	0	0				
Blankner School (Priority 4)	2-Gym	2500 South Mills Ave	Orlando	32806	N	G	605	12,110				per master list
Boone HS	800 gym	2000 S. Mills Avenue	Orlando	32806			0	0	560	560		
Boone HS	801 Café	2000 S. Mills Avenue	Orlando	32806			0	0	454	454		
Bridgewater MS	300 Gym	5660 Tiny Road	Winter Garden	34787			552	12,251		552	L	per FDEM study
Bridgewater MS	401A-Café & MP	5660 Tiny Road	Winter Garden	34787			550	8,954		550	L	per FDEM study
Carver Middle School	307 Café	4500 West Columbia Street	Orlando	32811			0	0	191	191		
Chain of Lakes Middle School	701 Café	8720 Conroy Windemere Rd	Orlando	32835	R	G	0	0	538	538		per county 6-15/09
Colonial 9th Grade School	200 Café/MP	7775 Valencia College Lane	Orlando	32807			0	0	427	427		
Colonial 9th Grade School	801-Gym only	7775 Valencia College Lane	Orlando	32807	N	G	473	11,590		473	L	per FDEM study
Colonial HS	5-110 Gym	6100 Oleander Dr	Orlando	32807			0	0	310	310		
Colonial HS	6-145 Café	6100 Oleander Dr	Orlando	32807			0	0	474	474	L	per county 8-23-05
Conway Middle School (new)	300, RM 301 Café	4600 Anderson Road	Orlando	32812	N	G	396	7,920		195	L	2008-2009 per County. New EHPA dining/multipurpose
Corner Lake Middle School	8, Rm101 Café / MP	1700 Chuluota Road	Bithlo	32820			0	0	346	346		
Cypress Creek High School	C-107-gym	1101 Bear Crossing	Orlando	32824	R	G	0	0	1,008	1,008		per FDEM study?
Cypress Creek High School	D-108-cafeteria	1101 Bear Crossing	Orlando	32824	R	G	0	0	615	615		per FDEM study?
Discovery Middle School	8-RM101 -Café / MP	601 Woodbury Road	Orlando	32828			0	0	489	489		need shutters
Dr. Phillips 9th Grade	21 Café	6500 Turkey Lake Road	Orlando	32819	R	G	0	0		304		Not EHPA
Dr. Phillips High School	501-cafeteria	6500 Turkey Lake Road	Orlando	32819	R	G	0	0		492	L	Not EHPA
Dr. Phillips High School	610-gym	6500 Turkey Lake Road	Orlando	32819	R	G	710	14,190		710		Undergoing comprehensive renovation in 2012-2014 and the gym will be upgraded to be an EHPA facility
East River High School	306 Gym	654 Columbia School Rd	Orlando	32833	N	G	0	0		0		see SpNS
East River High School	701 Café	654 Columbia School Rd	Orlando	32833	N	G	0	0		0		see SpNS
Edgewater High School	600 Gym, RM 101	3100 Edgewater Drive	Orlando	32804	N		737	14,731	566	566		EHPA
Edgewater High School	8 Café	3100 Edgewater Drive	Orlando	32804			384	7,680		384		Not EHPA
Evans High School	400-Gym, RM 103	4949 Silver Star Road	Orlando	32808	N		756	15,126	468			2011 EHPA
Evans High School	300-Din, RM 101	4949 Silver Star Road	Orlando	32808	N		596	11,919	452			2011 EHPA
Fort Gatlin Recreation Center		2009 Lake Margaret Drive	Orlando	N/A		G, A	0	0		100	F,S	
Freedom High School	6	2500 W Taft Vineland Rd	Orlando	32837		G	58	1,162				
Freedom High School	5	2500 W Taft Vineland Rd	Orlando	32837		G	164	3,284				
Freedom Middle	3-301 - Gym	2850 Taft Vineland Rd	Orlando	32837		G	556	11,998		556		per FDEM study
Freedom Middle	401 - Dining Area	2850 Taft Vineland Rd	Orlando	32837		G	368	9,029		368		per FDEM study
Freedom Middle	401A - Mult. Rm / Dining Area	2850 Taft Vineland Rd	Orlando	32837		G	226	4,515		226		per FDEM study
Glenridge Middle School	4-gym	801 Glenridge Way	Winter Park	32789	N	G	660	13,204				per FDEM study
Glenridge Middle School	5-Cafeteria	801 Glenridge Way	Winter Park	32789	N	G	188	3,751				per FDEM study
Gotha Middle School	7-Gym	9155 Gotha Road	Windemere	34787			0	0	605	605		need shutters
Gotha Middle School	8 RM101 Café / MP	9155 Gotha Road	Windemere	34787			0	0	255	255		need shutters
Howard Middle School	Rm 144 Café	800 E Robinson St.	Orlando	32801			0	0	317	317		
Hunters Creek Middle School	8 RM101 Café / MP	13400 Town Loop Blvd.	Orlando	32837			0	0	322	322		need shutters
Jackson Middle School	8- 801-Café only	6000 Stonewall Jackson	Orlando	32807	N	G	407	9,709		407		2007-2008 per County
John Bridges Community Center		445 West 13th Street	Apopka	N/A		G	0	0		206		
Jones High School	3 RM115 Café	1400 W. Cypress Dr	Orlando	32805			0	0	336	336		circa 2003-per county 8-23-05
Jones High School	6 RM112 Gym	1400 W. Cypress Dr	Orlando	32805			0	0	434	434		circa 2003-per county 8-23-05
Lake Nona Middle	2, RM 101 Gym	13700 Narcoossee Rd	Orlando	32832	N		579	11,582				Built 2011
Lake Nona High School	306 Gym	12500 Narcoossee Rd	Orlando	32832			759	18,999		759		per FDEM study
Lake Nona High School	701 Café	12500 Narcoossee Rd	Orlando	32832			605	9,158		605		per FDEM study
Lakeview Middle - Org	9-100 Café	1200 West Bay Street	Winter Garden	34787	N	G	0	0		312		EHPA?-per county 8-23-05
Lakeview Middle - Org	2- Gym	1200 West Bay Street	Winter Garden	34787			604	12,083				per FDEM study

ORANGE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Lee Middle School	2- 800 Café	1201 Maury Road	Orlando	32804			0	0		382		Not EPHA
Legacy Middle	301 - Gym	11398 Lake Underhill Rd	Orlando	32825			556	12,053		556		per FDEM study
Legacy Middle	4- Dining	11398 Lake Underhill Rd	Orlando	32825			573	8,600		594		per FDEM study
Liberty Middle School	102 Café	3405 South Chickasaw Trail	Orlando	32829			0	0	412	412		
Lockhart Middle School	3 (new)-900 Café	3411 Doctor Love Road	Orlando	32810			332	8,301		289	2008-2009 per County	per FDEM study
Maitland Middle School (old)	9	1601 Choctaw Trail	Maitland	32751			0	0	303	303		
Marks Street Community Center		99 East Marks Steet	Orlando	N/A		G, A	0	0		300		
Meadow Woods Middle School	8- 101 Café	1800 Rhode Island Wood Cr	Orlando	32824			0	0	210	210		need shutters
Meadowbrook Middle School	3 Gym	6000 N Lane	Orlando	32808			576	11,521				per FDEM study
Meadowbrook Middle School	4- 401 Café	6000 N Lane	Orlando	32808			370	9,246		368		per FDEM study
Memorial Middle School	4-401A Café / MP	2510 Gulfstream Road	Orlando	32805	N	G	558	8,725		558	2008-2009 per County	per FDEM study
Memorial Middle School	700 Gym	2220 West Michigan Ave	Orlando	32805			0	0	583	583		BLDG 3? Per FISH
Oak Ridge High School (new)	700 - RM 106 Gym	6000 Winegard Road	Orlando	32809	N		759	15,170	468	468		EHPA
Oak Ridge High School (new)	300 - RM 101 Café	6000 Winegard Road	Orlando	32809	N		605	12,093	437			Meets wind load but doesn't have dmiiable lights for night time sleeping
Ocoee High	3- 306 - Gym	1925 Oconee Crown Point Parkway	OCOEE	34761	N	G	759	18,855		759		per FDEM study
Ocoee High	7-701 Dining Area	1925 Oconee Crown Point Parkway	OCOEE	34761			559	8,388		591		per FDEM study
Ocoee Middle School	4-401-Café	300 South Bulford Avenue	Ocoee	34761	N	G	0	0	357	357	2008-2009	per County
Ocoee Middle School	5- 501-Gym	300 South Bulford Avenue	Ocoee	34761	N	G	0	0	583	583	2008-2009	per County
Ocoee Middle School	2	300 South Bulford Avenue	Ocoee	34761		G	142	2,849				
Ocoee Middle School	1	300 South Bulford Avenue	Ocoee	34761		G	307	6,144				
Odyssey Middle School	3-301 Gym	9290 Lee Vista	Orlando	32829	N	G	560	12,045		560		per County 8-23-05
Orlo Vista Building		26 North Nowell Avenue	Orlando	N/A		G, A	0	0		100		
Piedmont Lake Middle School	9 (per Fish) / 8 RM101 Café	2601 Lakeville Road	Apopka	32703			0	0	331	331		
Robinswood Middle School	1 (new) Café	6305 Balboa Drive	Orlando	32808	N	G	422	10,544		266		per FDEM study
Sessions Middle (new)	300 RM 301 Gym	571 Avalon Road	Winter Garden	34787	N		551	11,018				Gym and Cafeteria are Hurricane Hardened
Sessions Middle (new)	400 RM 401 Café	572 Avalon Road	Winter Garden	34788	N		542	10,832				
South Creek Middle School	4-401A Café	3801 Wetherbee Rd	Orlando	32824		G	593	9,391		593		per FDEM study
South Creek Middle School	3-Gym	3801 Wetherbee Rd	Orlando	32824		G	598	11,961				per FDEM study
Southwest Middle School	801 Café	6450 Dr. Phillips Boulevard	Orlando	32819			0	0	418	418		
Sunridge MS	1911	14955 Sunridge	Winter Garden	34787-5120	N	G	0	0				200-Gym Completed November 06, 2012 per FDOE (needs to be Surveyed / Confirmed)
Timber Creek High School	3-306 Gym	1001 Avalon Boulevard	Orlando	32806		G	785	19,185		752	per county 8-23-05	per FDEM study
Timber Creek High School	7-701 Dining	1001 Avalon Boulevard	Orlando	32806		G	591	7,679		591	per county 8-23-05	per FDEM study
Timber Creek High School	5-classrooms	1002 Avalon Boulevard	Orlando	32807		G	164	3,284				interior safe space
Timber Creek High School	6-classrooms	1003 Avalon Boulevard	Orlando	32808		G	58	1,162				interior safe space
Union Park Middle School	2 100 Café	1844 Westfall Drive	Orlando	32817		G	402	6,471		402	2007-2008 per County	per FDEM study
University of Central Florida	50	East Plaza Drive	Orlando	32826			0	0	250	250		
University High School	8 - Rms 101, 101A, 101E Café	2450 Cougar Way	Orlando	32817	R	G	87	5,256				rolldown shutters and reinforcement. Bldg. 8 Multi-purpose / Dining / Kitchen bldg is EHPA. The total Dining SF after renovation is 10,330 SF
University High School (priority 1)	Gym-3-West	2451 Cougar Way	Orlando		R	G	388	23,560				rolldown shutters and reinforcement. Bldg. 3 Gym is not EHPA. Per FISH Gymnasium is 12,053 SF
Valencia Community College (east)		Econolockahatchee Trail	Orlando	N/A			0	0		699		
Valencia Community College (west)		Kirkman Road	Orlando	N/A			0	0		1,324		
Walker Middle School (new)	8, RM 801 Cafeteria	150 Amidon Lane	Orlando	32809	N	G	413	8,260		186		Bldg. 8 Multi-purpose/Dining/Kitchen is EHPA. The kitchen in this building will be shared with adjacent Lancaster ES which isn't EHPA.

ORANGE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Wekiva HS	3-306 Gym	7401 N. Hiawassee Road	Apopka	32703		G	770	19,258		759	2007-2008 per County	per FDEM study
Wekiva HS	7-701-Café	7401 N. Hiawassee Road	Apopka	32703		G	604	9,355		604	2007-2008 per County	per FDEM study
West Orange High School	3-Gym	1625 Beaulah Road	Winter Garden	32787		G	916	18,122			L	per FDEM study
West Orange High School	7-Café	1625 Beaulah Road	Winter Garden	32787		G	525	7,875		606	L	per FDEM study
West Orange High School	5-classrooms	1626 Beaulah Road	Winter Garden	32788		G	283	5,668				interior safe space
West Orange High School	6-classrooms	1627 Beaulah Road	Winter Garden	32789		G	93	1,854				interior safe space
Westridge Middle School(new)	100, RM 125 Café	3800 West Oakridge Road	Orlando	32809		G	0	0	442	442		This building will not be EHPA after completion of comprehensive renovation.
Winter Park High School	4-400 Gym	2100 Summerfield	Winter Park	32792			0	0	579	579		
Winter Park High School	500 Rm 101 & 102	2100 Summerfield	Winter Park	32792			0	0	398	398		
Wolf Lake MS	4-401A Café	1771 W Ponkan Rd	Apopka	32712		G	598	9,084		598		per FDEM study
Wolf Lake MS	3-Gym	1771 W Ponkan Rd	Apopka	32712		G	559	11,178				per FDEM study
Zellwood Station Clubhouse		2126 Spillman Drive	Zellwood	N/A			0	0				per County 8-23-05
							0	0				
						TOTALS FOR ORANGE COUNTY	29,806	610,188	15,142	35,490		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**29,806**	**27,952**	**1,854**	**610,188**			**51,148**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R) New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Blankner School (Priority 4)	2-201 Café	2500 South Mills Ave	Orlando	32806	N	P	151	12,110		134		EHPA. PBSJ report- 120mph-threshold bldg
Freedom HS (priority 3)	7-701-Café	2500 Taft-Vineland Rd	Orlando	32837	N	P	134	7,679		134		EHPA. per FDEM study
Freedom HS (priority 3)	3-306 gym	2500 Taft-Vineland Rd	Orlando	32837	N	P	222	17,562		134		EHPA. per FDEM study
Olympia High School	3-306 Gym	4301 S. Apopka-Vineland	Orlando	32835	N	P	251	19,188		251	per County 8-23-05	EHPA. no exterior walls
Olympia High School (Priority 2)	7-cafeteria	4301 S. Apopka-Vineland	Orlando	32835	N	P	197	8,395		197		
East River High School	306 Gym	654 Columbia School Rd	Orlando	32833	N	P	316	18,999		759		EHPA. per master list
East River High School	701 Café	654 Columbia School Rd	Orlando	32833	N	P	131	7,875		605		EHPA. per master list

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,402**	**3,800**	**-2,398**	**84,120**			**-143,880**	**DEFICIT**			

OSCEOLA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bellalago Chartered School	5 Gymnasium	3651 Pleasant Hill Rd	Kissimmee	34741	N	G	400	8,000		400	L	EHPA
Celebration HS	5	1809 Celebration	Kissimmee	34741	R	G	732	14,640		368	HB7121	
Celebration HS	7	1809 Celebration Blvd	Kissimmee	34747	R	G	1,196	23,920		1183	S-1496-2009	
Celebration HS	8	1809 Celebration Blvd	Kissimmee	34747	R	G	375	7,500		394	S-1496-2009	
Celebration HS	2-gym	1809 Celebration Blvd	Kissimmee	34747	R	G	822	17,619		822	S-1508-2005	
Celebration School		851 Celebration Avenue	Celebration	34747			0	0				
Central Avenue Elementary School	Cafeteria	1502 N Central Avenue	Kissimmee	34741	N	P	0	0			L	
Chestnut ES	Cafeteria	4300 Chestnut St.	Kissimmee	34759	N	G	551	11,020		551	L	EHPA
Cypress Elementary School		2251 Lakeside Drive	Kissimmee	34744		G	0	0				
Deerwood Elementary School		3701 Lakeside Drive	Kissimmee	34758		G	0	0				
Denn John Middle School		2001 Denn John Lane	Kissimmee	34744		G	0	0				
Discovery Intermediate School	Cafeteria / gym	5350 San Miggel	Poinciana	34759	R	G	908	14,316		908	S-1508-2005	
Discovery Intermediate School	1	5350 San Miguel	Kissimmee	34758	R	G	127	2,540		350	HB7121	
Discovery Intermediate School	3	5350 San Miguel	Kissimmee	34758	R	G	191	3,900		794	HB7121	
Discovery Intermediate School	4	5350 San Miguel	Kissimmee	34758	R	G	235	4,700		235	S-1496-2009	
Discovery Intermediate School	5	5350 San Miguel	Kissimmee	34758	R	G	556	4,700		556	S-1496-2009	
East Lake Elem School	1	4001 Boggy Creek Rd	Kissimmee	34744	N	G	388	7,777		388	L	EHPA
Floral Ridge Elem School	Café	2900 Dyer Ave	Kissimmee	34741	N	G	301	6,027		301	L	EHPA
Florida Christian College	Gym	1011 Bill Beck Blvd	Kissimmee	34744	R	G	709	14,180		709	S-1508-2005	
Gateway High School	Gym / Auditorium	801 Bill Beck Boulevard	Kissimmee	34744		G	0	0				
Harmony ES (Harmony Community School)	cafeteria	3365 Schoolhouse	St. Cloud	34773	N	G	388	7,777		388	L	EHPA
Harmony HS	4	3602 Arthur J. Gallagher Blvd	St. Cloud	34772	R	G	722	14,440		767	S-1496-2009	
Harmony HS	5	3601 Arthur Gall.	St. Cloud	34771	R	G	711	14,220		446	HB7121	
Harmony HS	7	3601 Arthur Gall.	St. Cloud	34771	R	G	1,805	36,100		502	HB7121	
Harmony HS	8	3602 Arthur Gall.	St. Cloud	34772	R	G	376	7,520		393	S-1496-2009	
Harmony HS	2-Gym	3601 Arthur J. Gallagher Blvd	St. Cloud	34771	R	G, A	932	19,764		932	S-1508-2005	
Hickory Tree Elementary School	Cafteria	2355 Hickory Tree Road	St. Cloud	34772		G	0	0				
Highlands Avenue Elementary School		800 W Donegan	Kissimmee	34741		G	0	0				
Horizon Middle School	2-gym	2020 Ham Brown Road	Kissimmee	34746	R	G	1,003	20,069		1003	S-1118A	
Kenansville Comm Center	Center	1178 South Canoe Creek Rd	St. Cloud	34769	R	G	120	2,400		120	S-1508-2005	
Kissimmee Elementary School	5	3700 Donegan	Kissimmee	34741	R	G	176	3,520		232	HB7121	
Kissimmee Elementary School	6	3700 Donegan	Kissimmee	34741	R	G	183	3,660		490	HB7121	
Kissimmee Elementary School	4-café	2420 Dyer Boulevard	Kissimmee	3474	R	G	209	5,010		301	S-1508-2005	
Kissimmee Middle School	2-gym	2410 Dyer Boulevard	Kissimmee	34741	R	G, A	875	17,496		936	S-1118A	
KOA Elem School	1 Cafeteria	500 KOA Street	Kissimmee	34758	N	G	231	4,620		231	L	Cafteria portion is EHPA, per county
Liberty HS	4 Gymnasium	4250 Pleasant Hill	Kissimmee	34746	N	G, A	1,335	26,698		892	L	EHPA
Michigan Avenue Elementary School		2015 S Michigan Avenue	St. Cloud	34769			0	0				
Mill Creek Elementary School	10 Classroom (2-story)	1700 Mill Slough Road	Kissimmee	34744			0	0				
Narcoossee Middle School	2 Café / Gym				R	G	891	14,200		891	S-1508-2005	Built 1998
Narcoossee Middle School	3 Classroom	2700 Narcoossee Rd	Kissimmee	34771	R	G	497	9,940		833	HB7121	Built 1998
Narcoossee Middle School	4 Classroom	2700 Narcoossee Rd	Kissimmee	34771	R	G	199	3,980		327		
Narcoossee Elementary School	Cafeteria	2690 Narcossee Rd	Kissimmee	34771	N	G	388	7,777		388	L	EHPA
Neptune ES	1-Cafeteria	1200 Betsy Ross Lane	St. Cloud	34769	N	G	310	6,207		310	L	EHPA
Neptune MS		2727 Neptune Rd	Kissimmee	34744			0	0				
Oak Leaf Landing		2350 N. Central Avenue	Kissimmee		R	G	0	0		0	S-1588-2006	
Parkway Middle School		857 Florida Parkway	Kissimmee	34743			0	0				
Partin Settlement ES	1-Cafeteria	2434 Remington Blvd	Kissimmee	34744	r	G	436	8,720		436		EHPA
Pleasant Hill Elementary School		1253 Pleasant Hill Road	Kissimmee	34746			0	0				
Poinciana ES	2	4200 Rhododendron	Kissimmee	34758	R	G	183	3,660		356	S-1496-2009	
Poinciana ES	3	4200 Rhododendron	Kissimmee	34758	R	G	152	3,040		316	HB7121	
Poinciana ES	4	4200 Rhododendron	Kissimmee	34758	R	G	301	4,834		301	S-1508-2005	

OSCEOLA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Poinciana ES	5	4200 Rhododendron	Kissimmee	34758	R	G	176	3,520		434	HB7121	
Poinciana ES	6	4200 Rhododendron	Kissimmee	34758	R	G	183	3,660		474	HB7121	
Reedy Creek Elementary School	1	2300 Brook Court	Kissimmee	34758	R	G	1,410	28,200		1410	S-1118A	
Reedy Creek Elementary School	2 (two story add)	2300 Brook Court	Kissimmee	34758	R	G	936	18,720		936	S-1467-2004	
St. Cloud ES	1-Cafeteria	2701 Budinger Ave	St. Cloud	34769	N	G	551	11,020		551	L	EHPA
St. Cloud Middle School		1975 S Michigan Avenue	St. Cloud	34769		G	0	0				
Sunrise ES		1925 Ham Brown Rd	Kissimmee	34746	N	G	551	11,020		551	L	EHPA
Thacker Elementary School	12 Classroom	301 Thacker Avenue	Kissimmee	34741		G	0	0				Built 2009 (DOE FISH)
Ventura Elementary School	3	275 Water Edge Drive	Kissimmee	34743	R	G	436	8,720		436	S-1588-2006	
Westside K-8 School	2 Gymnasium	2551 Westside Blvd	Kissimmee	34747	N	G	495	9,900		495		Built 2008, 2011 LRDM Survey
						TOTALS FOR OSCEOLA COUNTY	**24,652**	**481,251**	**0**	**25,037**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**24,652**	**10,151**	**14,501**	**481,251**			**278,231**	**SURPLUS**				

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Central Ave ES	1 Main - Classroom / Cafeteria	500 W Columbia Avenue	Kissimmee	34741	N	P	550	33,050		500		EHPA. 2010 DEM LRDM
Barney E. Veal Center	A	700 Generations Point	Kissimmee	34744	N	P	285	17,000		285		EHPA design per county. DEM 2011 LRDM shows needing fenestration protection. This need to be clarified.
St. Cloud Senior Center		3101 17th Street	St. Cloud	34769	R	P	166	9,960		166	S-1543A	
Oak Leaf Landing Center	1 Main	2350 North Central Avenue	Kissimmee	34741	R	P	330	19,800		251	S-1588-2007	2011 DEM LRDM Survey Shows only 6,030SqFt

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**1,331**	**660**	**671**	**79,860**			**40,260**	**SURPLUS**				

PALM BEACH

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Atlantic Community HS	2,3,4,5,6,7	2455 W. Atlantic Ave	Delray	33445	N	G	5,837	116,740		5,837	L	Primary Risk Shelter
Bear Lakes Middle School	1,2,3,4, G	3505 Shenandoa Boulevard	W Palm Beach	33409	R	G	1,354	27,081		1,354	S-1118A	Secondary Risk Shelter
Bethune, ES McLeod	1	1501 Aveune U	Riviera Beach	33404	R	G	530	10,601		530		Primary Risk Shelter
Boca Raton Community HS	2,3,4,5,6	1501 NW 15th Ct	Boca Raton	33486	N	G	3,218	64,374		3,218		Primary Risk Shelter
Boynton Beach High School	1,3,6	4975 Park Ridge Boulevard	Boynton Beach	33462	N	G	2,075	41,500		2,075	L	Primary Risk Shelter
Carver Middle School	2,4,6,8	101 Barwick Road	Delray Beach	33445	R	G	3,029	60,582		3,029	S-1118A	Secondary Risk Shelter
Christa McCauliffe Middle School	1,2,3,4	6500 Le Chalet Boulevard	Boynton Beach	33437	R	G	1,745	34,908		1,745	S-1543	Secondary Risk Shelter
Discovery Key Elementary School	1	3550 Lyons Road	Lake Worth	33467	N	G	491	9,827		491		Secondary Risk Shelter
Forest Hill SHS	3,4,6,7	8499 Forest Hill blvd	W. Palm Beach	33405	N	G	2,531	50,620		2,531		Primary Risk Shelter
Frontier Elementary School	1	6701 180th Avenue, North	Loxahatchee	33470	N	G	491	9,835		491		Secondary Risk Shelter
Glades Central Community High School	4, 5	1001 SW Avenue M	Belle Glade	33430	R	G	1,182	23,640		1,182	S-1118A	Secondary Risk Shelter
Hertiage ES	1- dining / stage	5100 Melaleuca Lane	Greenacres	33463	N	G	503	10,065		503		Secondary Risk Shelter
Independence Middle	4	4001 Greenw	Jupiter	33410	N	G	526	10,520		526	L	Primary Risk Shelter
John I. Leonard HS	2,3,4,6,7.8.9,10,11	4710 10th Avenue	Greenacres	33463	N	G	4,704	94,080		4,704	L	Primary Risk Shelter
Lake Worth Middle School	1,2,3,4	1300 Barnett Drive	Lake Worth	33460	R	G	1,466	29,323		1,466	S-1118A	Secondary Risk Shelter
Lakeshore Middle School	2,3,4,7, 50	425 West Canal Street	Belle Grade	33430	N	G	2,872	57,440		2,872	L	Primary Risk Shelter
North Grade Elementary	5,6,7	824 North K Street	Lake Worth	33460	N	G	473	9,462		473		Secondary Risk Shelter
Odyssey Middle School	4	6161 Woolbright Road	Boynton Beach	33437	N	G	565	11,308		565		Secondary Risk Shelter
Olympic Heights Community HS	2,4,8	20101 Lyons Road	Boca Raton	33437	R	G	1,613	32,256		1,613		Secondary Risk Shelter
Omni Middle School	C,D,F,G	5775 Jog Road	Boca Raton	33496	R	G	1,819	36,395		1,819		Secondary Risk Shelter
Pahokee Middle School	12 and gym	850 Larrimore road	Pahokee	33476	N	G	888	17,765		888		Primary Risk Shelter
Palm Beach Central HS (Part)	2,3,4,5,6,7	8499 W. Forest Hill Blvd.	Wellington	33414	N	G	3,914	78,275		3,914		Primary Risk Shelter
Palm Beach Gardens Community HS	1,2,3,4,5	4246 Holly Drive	Palm Bch Gardens	33410	N	G				5,267		Primary Risk Shelter
Palm Beach Gardens Community HS	1	4246 Holly Drive	Palm Bch Gardens	33410	N	G	1,213	24,262				
Palm Beach Gardens Community HS	2	4246 Holly Drive	Palm Bch Gardens	33410	N	G	1,346	26,925				
Palm Beach Gardens Community HS	3	4246 Holly Drive	Palm Bch Gardens	33410	N	G	1,631	32,622				
Palm Beach Gardens Community HS	4	4246 Holly Drive	Palm Bch Gardens	33410	N	G	706	14,125				
Palm Beach Gardens Community HS	5	4246 Holly Drive	Palm Bch Gardens	33410	N	G	2,128	42,560				
Park Vista Community High School	2, 5, 6, 7, 8, 9, 10	7900 Jog Rd.	Boynton Beach	33427	N	G	5,395	107,900		5,395	L	Primary Risk Shelter
Seminole Ridge High School	2, 5, 6, 7, 8, 9, 10	4601 Seminole Pratt Whitney R	Loxahatchee	33470	N	G	4,459	89,180		4,459		Primary Risk Shelter
Watson B. Duncan MS	3,4,6,7	5150 117th Court N	Palm Bch Gardens	33418	R	G	1,728	34,576		1,728		Secondary Risk Shelter
Wellington Landings MS	1,2,3,4	1100 Aero Drive	West Palm Beach	33414	R	G	1,745	34,908		1,745		Secondary Risk Shelter
West Boca High School	2, 3, 4, 5, 6, 7, 9, 12	12811 Glades Road	Boca Raton	33428	N	G	3,535	70,722		3,535		Primary Risk Shelter
West Boynton Rec Center		6000 Northtree Blvd	Lake Worth	33463	N	G, A	0	0		240		Risk Pets
West Gate Community Center		3691 Oswego Avenue	W Palm Beach	33414		G	0	0			L	Host Shelter
Westgate Elementary School	Cafeteria	1545 Loxahatchee Road	W Palm Beach	33414	R	G	2,293	45,861		473	S, L	Primary Risk Shelter
Wm. T. Dwyer High School	1, 2, 8	13601 N Military Trail	Palm Bch Gardens	33418	R	G	2,343	58,579		1,787	S-1118A	Secondary Risk Shelter
							0	0				
						TOTALS FOR PALM BEACH COUNTY	**70,348**	**1,418,817**	**0**	**66,455**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**70,348**	**29,754**	**40,594**	**1,418,817**			**823,737**	**SURPLUS**			

PALM BEACH

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
South Florida Fair Expo	West Expo	9067 Southern Boulevard	W Palm Beach	33411	R	P	550	33,000		550		SpNS - 550 "Special Care" / caregivers
Palm Beach Central HS (Part)	8-Gym	8499 W. Forest Hill Blvd.	Wellington	33414	N	P	250	15,000		250		SpNS - 250 caregivers

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT				
Storm Category 4/5	**800**	**2,520**	**-1,720**	**48,000**			**-103,200**	**DEFICIT**				

PASCO

Name	Bldg. #	Address	City	Zip	Retrofitted, New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Anclote Elem School		3610 Madison Street	Elfers	34652			0	0	1,267			Non-compliant with ARC 4496/Kelly School/Level E evac zone/ 21.5 Slosh
Bayonet Point Middle School		11125 Little Road	New Port Richey	34654			0	0	478			Need LRDM - 1983 construction / Non-compliant with ARC 4496 / Kelly School / 46' span
Calusa Elementary School	4	7520 Orchid Lake Road	New Port Richey	34654	R	G	126	1,883		0	S/HMGP	No ARC exemption granted / Level E evac zone / Low Capacity
Centennial Elementary School		38501 Centennial Road	Dade City	33525			0	0	0			Non Compliant with ARC 4496
Centennial Middle School	2	38501 Centennial Road	Dade City	33525	R	G	718	14,350		957	L-School Brd	
Chasco Elementary / Middle School	2-1st flr	7720 Ridge Road	New Port Richey	34654	N	G	435	8,695		0	L-School Brd	ARC exemption? If so, use in low level storms, ARC 4496 Survey of File 4/2/2014
Chasco Elementary / Middle School	2-2nd flr	7720 Ridge Road	New Port Richey	34654	N	G	470	9,399		0	L-School Brd	ARC exemption? If so, use in low level storms, ARC 4496 Survey of File 4/2/2014
Connerton Elementary School	3, 4 & 5	9300 Flourish Drive	Land O'Lakes	34637	N	G	1,127	22,544		1503	L-School Brd	reported by EM 2011
Cypress Elementary School		10055 Sweet Bay Court	New Port Richey	34654			0	0	187	1,988		Non-compliant with ARC 4496 / Kelly School
Denham Oaks Elementary School	1	14220 Oak Grove Blvd	Lutz	33548	R	G	193	3,869		0	S/HMGP	
Denham Oaks Elementary School	2	14220 Oak Grove Blvd	Lutz	33548	R	G	285	5,703		380	S/HMGP	
Denham Oaks Elementary School	3	14220 Oak Grove Blvd	Lutz	33548	R	G	152	3,042		203	S/HMGP	
Denham Oaks Elementary School	5	14220 Oak Grove Blvd	Lutz	33548	R	G	284	5,686		379	S/HMGP	
Denham Oaks Elementary School	6	14220 Oak Grove Blvd	Lutz	33548	R	G	373	7,454		497	S/HMGP	
Denham Oaks Elementary School	7	14220 Oak Grove Blvd	Lutz	33548	R	G	153	3,057		204	S/HMGP	
Double Branch Elem School	1 Classrm, 2 ESE / Classrm, 3 Multipurpose, 4 Classroom	31500 Chancey Pkwy	Wesley Chapel	33543	N	G	787	15,740		1,049	L	Built 2007. Resurvey 2011
Fasano Regional Evacuation Shelter	1	11611 Denton Ave	Hudson	34667	N	G, A	500	10,000		0	L/F HMGP	
Fivay High School		12115 Chicago Ave.	Hudson	34667	N	G				0	L	ARC exemption granted (2014) / Level D evac zone / Low Capacity, ARC 4496 Survey on File 2/13/2015
Gulf High School		5355 School Road	New Port Richey	34652			0	0	0	0	S/HMGP	Non-compliant with ARC 4496 / Kelly School / Level E evac zone / 4.5' SLOSH
Hudson High School		14410 Cobra Way	Hudson	34669			0	0	0	0	S/HMGP	Non-compliant with ARC 4496 / Kelly School / Level E evac zone / 5.5' SLOSH
Hudson High School		14410 Cobra Way	Hudson	34669			0	0		0	S/HMGP	Non-compliant with ARC 4496 / Kelly School / Level E evac zone / 5.5' SLOSH
JW Mitchell HS	7	2323 Little Road,	New Port Richey	34655	R	G	0	0		0	S-1467-2004	ARC exemption granted (2011)/ Level E evac zone / 4' SLOSH/ use in low level storms only
JW Mitchell HS	8	2323 Little Road,	New Port Richey	34655	R	G	0	0		0	S-1467-2004	ARC exemption granted (2011)/ Level E evac zone / 4' SLOSH/ use in low level storms only
JW Mitchell HS	9	2323 Little Road,	New Port Richey	34655	R	G	0	0		0	S-1467-2004	ARC exemption granted (2011) / Level E evac zone / 4' SLOSH/ use in low level storms only
Lacoochee Elementary School	11	38815 Cummer Road	Lacoochee	33525	R	G	0	0		0	S/HMGP	Use change of Media area renderd space unusable as shelter space (prior had 60 general population spaces)
Lacoochee Elementary School	12	38815 Cummer Road	Lacoochee	33525	R	G	0	0		0	S/HMGP	Space Modification, ARC 4496 Survey on File 6/14/2013
Lacoochee Elementary School	13 ESE	38815 Cummer Road	Lacoochee	33525	R	G	0	0		0	S/HMGP	Use change of Storage area renderd space unusable as shelter space (prior had 74 general population spaces)
Longleaf Elementary School	4	2323 Little Road	New Port Richey	34655	N	G	1,325	26,500		1,767	L	Opened 8/2005, ARC Survey on File 6/15/2013
New River Elem School	4	4710 River Glen Blvd	Wesley Chapel	33545	N	G	787	15,740		1,049	L	2008-2009
Northwest Elementary School	1 & 4 ESE	14302 Cobra Way	Hudson	34669			0	0	0			No ARC exemption granted / Kelly School / Level E evac zone / 4.2' SLOSH
Oakslead ES	4-Classrms	19925 lake Patience RD	Land O'Lakes	34639	N	G	729	14,580		972	L-School Brd	

PASCO

Odessa Elementary School	2 Multipurpose 3 ESE / Classrm 4 Classroom	1874 Ketzel Drive	New Port Richey	34655	N	G	1,509	30,171		2,011		reported by EM 2011
Pasco Hernando State College Porter Campus					N	G	0	0			L-College Funds	EHPA, not locally designated for shelter use
Pasco Hernando State College West Campus							0	0				Evac zone E, Same as above
Pasco High School	16	36850 SR 52	Dade City	33525	R	G	0	0		0	S/HMGP	Non Compliant with ARC 4496 / Exterior Bathrooms
Pasco High School	17	36850 SR 52	Dade City	33525	R	G	0	0		0	S/HMGP	Non Compliant with ARC 4496 / Exterior Bathrooms
Pasco High School	18	36850 SR 52	Dade City	33525	R	G	0	0		0	S/HMGP	Non Compliant with ARC 4496 / Exterior Bathrooms
Pasco Middle School	1	13925 14th St	Dade City	33525	N	G	513	10,265		684	L-School Brd	2014 County added / DEM : SqFt based on FISH
Pineview Elementary School	1, 2, 3, 4	5333 Parkway Blvd	Land O'Lakes	33549	N	G	804	16,080		1,072	Local EHPA	8/1/03 completion
Pineview Middle School	1 Main	5334 Parkway Boulevard	Land O'Lakes	34639	R	G	0	0	0	0	F, S	Capacity / Staffing Issues Non-compliant with ARC 4496
Pineview Middle School	5 P.E.	5334 Parkway Boulevard	Land O'Lakes	34639	R	G	0	0		0	S/HMGP	ARC 4496 Non-Compliant / Gym with open span. Needs engineering study / construction year (?)
Raymond B. Stewart Middle School	10	38505 Tenth Avenue	Zephyrhills	33540	R	G	0	0		0	S/HMGP	Change of use to Lab rendering space unusable as shelter space (prior had 242 general population spaces)
Raymond B. Stewart Middle School	9-Media / 9A-ESE / 5	38505 Tenth Avenue	Zephyrhills	33540	R	G	0	0		0	S/HMGP	Change of use to Lab rendering space unusable as shelter space (prior had 122 general population spaces)
RB Stewart MS	12-Cafeteria	38505 Tenth Avenue	Zephyrhills	33540	N	G	487	9,740		649	L-School Brd	
River Ridge Middle/High School	1	11646 Town Center Road	New Port Richey	34654	R	G	241	4,812		321	S/HMGP	
River Ridge Middle/High School	2	11646 Town Center Road	New Port Richey	34654	R	G	388	7,761		517	S/HMGP	
River Ridge Middle/High School	3	11646 Town Center Road	New Port Richey	34654	R	G	795	15,899	2,879	1,060	S/HMGP	
River Ridge Middle/High School	4	11646 Town Center Road	New Port Richey	34654	R	P	0	0		0	S/HMGP	1982 construction, reinforcement and structural Issues with roof connections
River Ridge Middle/High School	5	11646 Town Center Road	New Port Richey	34654	R	G	831	16,623		1,108	S/HMGP	
River Ridge Middle/High School	24	11646 Town Center Road	New Port Richey	34654	R	G	0	0	0		S/HMGP	Structural Issues with roof connections
River Ridge Middle/High School	31	11646 Town Center Road	New Port Richey	34654	R	G	295	5,900		393	S/HMGP	
River Ridge Middle/High School	23-1st fl	11646 Town Center Road	New Port Richey	34654	R	P	699	13,970		931	S/HMGP	Shelter / Generator removed
River Ridge Middle/High School	23-2nd flr	11646 Town Center Road	New Port Richey	34654	R	G	700	14,000		933	S/HMGP	
Saint Leo University	4	33701 SR 52	St Leo	33525	N	G	291	5,820		388	L	EHPA
Saint Leo University	22	33701 SR 52	St Leo	33525	R	G	0	0			S/EMPATF	Non Compliant with ARC 4496
Saint Leo University	24	33701 SR 52	St Leo	33525	R	G	0	0			S/EMPATF	Non Compliant with ARC 4496
Saint Leo University		33701 SR 52	St Leo	33525	R	G	0	0			S/EMPATF	Non Compliant with ARC 4496
Saint Leo University	Bowman	33701 SR 52	St Leo	33525	R	P	0	0				2nd floor not ADA compliant
Saint Leo University	Bowman	33701 SR 52	St Leo	33525	R	G	109	2,175	145	145		Secondary SpNS / Staffing issues
Saint Leo University	Lewis	33701 SR 52	St Leo	33525	R	G	0	0		0		Change of use to Apartments rendering space unusable as shelter space
Saint Leo University	St. Edwards	33701 SR 52	St Leo	33525	R	G	346	6,920		461	S/EMPATF	
Schrader Elementary School	9	11041 Little Rd	New Port Richey	34654	R	G	0	0		0	Local EHPA	ARC exemption granted / Level E evac zone / 4.4' SLOSH
Seven Oaks Elementary	4	27633 Mystic Oak	Wesley Chapel	33544	N	G	1,325	26,500		1,767	Local	Opens 8/05
Seven Springs Middle School	3	2441 Little Road	New Port Richey	34654	R	G	0	0		0	S/EMPATF	Non Compliant with ARC 4496
Shady Hills Elementary School		18000 Shady Hills Road	Spring Hill	34610			0	0	1,869			Non Compliant with ARC 4496
Sunlake High School	Target 2008	3023 Sunlake Blvd	Land O'Lakes	34648	N	G	2,860	57,200		3,813	Local	
Thomas Weightman Middle School	2	30649 Wells Road	Zephyrhills	33544	R	G	244	4,885		326	S/HMGP	
Thomas Weightman Middle School	3	30649 Wells Road	Zephyrhills	33544	R	G	872	17,446		1,163	S/HMGP	
Thomas Weightman Middle School	4	30649 Wells Road	Zephyrhills	33544	R	G	301	6,018		401	S/HMGP	
Thomas Weightman Middle School	5	30649 Wells Road	Zephyrhills	33544	R	G	198	3,969		265	S/HMGP	
Thomas Weightman Middle School	6	30649 Wells Road	Zephyrhills	33544	R	G	264	5,270		351	S/HMGP	
Thomas Weightman Middle School	8	30649 Wells Road	Zephyrhills	33544	R	G	301	6,018		401	S/HMGP	
Trilacoochee Community Center							0	0		0		
Trinity ES	1,2,3,4	2209 Duck Slough Blvd	New Port Richey	34654	N	G	755	15,100		0	L-School Brd	ARC exemption granted / Level E evac zone / 3.6 SLOSH
Trinity Oaks ES	2	1827 Trinity Oaks Blvd	New Port Richey	34655	N	G	0	0		0	L-School Brd	3.6' SLOSH
Veterans Elementary School		26940 Progress Parkway	Wesley Chapel	33544	N	G	920	18,400		1,227	L-School Brd	EHPA
Watergrass Elementary School		32750 Overpass Road	Wesley Chapel	33545	N	G	775	15,500		1,033	L	
Wesley Chapel HS	1 Admin	30651 Wells Road	Wesley Chapel	33544	N	P	0	0			L-School Brd	

PASCO

Wesley Chapel HS	2 Classroom	30651 Wells Road	Wesley Chapel	33544	R	G	948	18,954			S-1467-2004	Change in use from P to G effective 2014.
Wesley Chapel HS	3 Classoom	30651 Wells Road	Wesley Chapel	33544	R	P	0	0		0	S-1467-2004	Primary SpNs
Wesley Chapel HS	5 Cafeteria	30651 Wells Road	Wesley Chapel	33544	R	P	0	0		0	S-1467-2004	Primary SpNs
Wesley Chapel Park					N	G	0	0		0	L/F/S	EMPA/HB7121 -Never built
Wiregrass High School	3	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	0	0		0	L/S	Primary SpNS
Wiregrass High School	4	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	0	0		0	L-School Brd	Generator Installed by State 2014 Changed to Primary SpNS/Change. May be used for Gen. Pop. Depending on the event
Wiregrass High School	6	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	0	0		317	L-School Brd	May be used for Gen. Pop. Or SpNS. Depending on the event.
Wiregrass High School	7	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	0	0		311	L-School Brd	May be used for Gen. Pop. Or SpNS. Depending on the event.
Zephyrhills High School	1 - Less Rm 100 series	6335 12 Street	Zephyrhills	33540	R	P	0	0	0		S/HMGP	Non-compliant with ARC 4496 / Kelly School major retrofit issues
Zephyrhills High School	11 - chorus & band	6335 12 Street	Zephyrhills	33540	R	G	0	0	0		S/HMGP	Non-compliant with ARC 4496 / Kelly School major retrofit issues
				TOTALS FOR PASCO COUNTY			**26,214**	**523,638**	**6,825**	**32,999**		

	Shelter Capacity In People	**Shelter Demand In People**	**Surplus/ Deficit In People**	**Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**			
Storm Category 4/5	**26,214**	**31,294**	**-5,080**	**523,638**			**-102,242**	**DEFICIT**			

Special Needs Storm Shelters

Name	**Bldg #**	**Address**	**City**	**Zip**	**Retrofitted, New Construction (N)**	**General (G), PSN (P), Pet-Friendly (A)**	**SpNS Capacity (spaces @ 60sf) (meets ARC 4496)**	**SpNs Capacity (sf) (meets ARC 4496)**	**SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)**	**Local Planned Usage**	**Funding Source: Local (L), State (S), Federal (F), and Program Name**	**Comments**
Fasano Shelter	1 / RM 1	11611 Denton Av	Hudson	34654			166	10,000		166	S/F	Primary SpNS
St. Leo University	Bowman	33701 SR 52	St. Leo		R	P	76	4,550		115		Secondary SpNS / Staffing issues
Wesley Chapel HS	3 Classoom	30651 Wells Road	Wesley Chapel	33544	R	P	280	16,780		0	S-1467-2004	
Wesley Chapel HS	5 Cafeteria	30651 Wells Road	Wesley Chapel	33544	R	P	80	4,816		0	S-1467-2004	
Wiregrass Ranch Sr High School	3 Classroom	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	363	21,806		363	L/S	Built 2006 (FISH). EHPA. Primary SpNS
Wiregrass Ranch Sr High School	4 Classroom	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	367	22,040		367	L-School Brd	Built 2006 (FISH). EHPA. Generator Installed by State 2014 Changed to Primary SpNS/Change. May be used for Gen. Pop. Depending on the event
Wiregrass Ranch Sr High School	6 Gymnasium	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	106	6,340		106	L-School Brd	May be used for Gen. Pop. Or SpNS. Depending on the event.
Wiregrass Ranch Sr High School	7 Dining	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	104	6,220		104	L-School Brd	May be used for Gen. Pop. Or SpNS. Depending on the event.

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**			
Storm Category 4/5	**1,542**	**966**	**576**	**92,512**			**34,552**	**SURPLUS**			

PINELLAS

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Azalea ES	16	1680 74th Street N	St. Petersburg	33710	N	G	270	5,405			L	per EHPA list-2009
Bauder Elementary School	1	12755 86 Avenue North	Seminole	33776	R	G	0	0	580	773	L	open spans-form board roof-walls issues
Bardmoor ES	3	8900 Greenbrier Road	Seminole	33777	N	G					L	per EHPA list-2009, 6.3' SLOSH
Bellear ES	9 Classroom	1156 Lakeview Road	Clearwater	33756	N	G	0			522	S	Classrrom Size Reduction
Blanton ES	16 Clasroom	6400 54th Avenue N	St. Petersburg	33709	N	G	0	0			L	per EHPA list-2009, 1.97' SLOSH
Boca Ciega High School	1 Main	924 58th St. S.	Gulfport	33707	N	G	0	0		4,677		
Boca Ciega High School	4 ESE / Resource	924 58th St. S.	Gulfport	33707	N	G	0	0				
Brooker Creek E S	4 &5 (1st floors)	3130Forelock Rd	Tarpon Springs	34688	R	G	704	10,560		926	HMGP	25ft amsl- FFE. < 1' SURGE
Campbell Park ES		1051 7th Ave S	St. Petersburg	33705	N	G	1,330	26,600		1,773		
Carwise Middle School	5&6	3301 Bentley Drive	Palm Harbor	34684	R	G, A	2,654	39,812		2,709	HMGP	PBSJ- report
Clearwater Fundamental MS (formerly Kennedy MS)	1 (1st flr halls)	1660 Palmetto Street	Clearwater	33755	R	G, A	0	0	1,756	1,579	L	questions on walls/roof.
Countryside High School	6	300 McMullen Booth	Clearwater	33781	R	G	90	1,798			HMGP	meets ARC 4496 per PBSJ report
Doug Jamerson ES	4	1200 37th St. S	St. Petersburg	33714	R	G	340	6,800		898	S-1508-2005	
Doug Jamerson ES	5	1200 37th St. S	St. Petersburg	33714	R	G	340	6,800			S-1508-2005	
Doug Jamerson ES	4 & 5	2350 22 Ave S	St Petersburg	33714	R	G, A	61	1,210				
Dunedin Community Center		1920 Pinehurst RD	Dunedin	34698	N	G	0	0		533		9.7' SLOSH
Dunedin ES		900 Union Street	Dunedin	34698	N	G	0	0		2,186		
Dunedin ES (new)	1	901 Union Street	Dunedin	34699	N	G	571	11,423				
Dunedin ES (new)	2	902 Union Street	Dunedin	34700	N	G	280	5,604				
Dunedin ES (new)	3	903 Union Street	Dunedin	34701	N	G	227	4,547				
Dunedin ES (new)	4	904 Union Street	Dunedin	34702	N	G	314	6,284				
Dunedin Highland Middle School	4	70 Patricia Avenue	Dunedin	34698	N	G, A	332	6,634				
Dunedin Highland Middle School	5	70 Patricia Avenue	Dunedin	34698	N	G	617	11,296				
East Lake High School	6	1300 Silver Eagle Drive	Tarpon Springs	34689	R	G, A	0	0			S-1395B	PBSJ report, 1.7' SLOSH
East Lake High School	2 (1st floor)	1300 Silver Eagle Drive	Tarpon Springs	34689	R	G, A	0	0			S-1395B	PBSJ report, 1.7' SLOSH
East Lake High School	2, 3, 6, 9	1300 Silver Eagle Drive	Tarpon Springs	34689	R	G, A	0	0		1,577	S-1395B	1.7' SLOSH
East Lake High School	3 (1st floor)	1300 Silver Eagle Drive	Tarpon Springs	34689	R	G, A	0	0			S-1395B	PBSJ report, 1.7' SLOSH
East Lake High School	9 (1st floor)	1300 Silver Eagle Drive	Tarpon Springs	34689	R	G, A	0	0			S-1395B	PBSJ report, 1.7' SLOSH
Eishenhower Elem School	7 Classroom	2800 Drew Street	Clearwater	33759	N	G	284	5,672				
Fairmont Park Elementary School	4&5	575 41 Street South	St Petersburg	33711	R	G, A	61	1,220				PBSJ Report
Fairmount Park ES	4	575 41 Street South	St Petersburg	33711	R	G	340	6,800		771	S-1508-2005	PBSJ Report
Fairmount Park ES	5	575 41 Street South	St Petersburg	33711	R	G	340	6,800			S-1508-2005	PBSJ Report
Fuguitt Elem School	12 Classroom	13010 101st Street	Largo	33773	N	G	0	0				11.3' SLOSH
Gibbs High School	campus wide	850 34 Street South	St Petersburg	33711		G				4,037	F,S	replace old bldgs,
Gibbs Senior High School	2 Classroom	851 34 Street South	St Petersburg	33712	R	G	1,631	32,616			L	
Gibbs Senior High School	3 Gymnasium	852 34 Street South	St Petersburg	33713	R	G	982	19,647			L	
Gibbs Senior High School	4 Auditorium	853 34 Street South	St Petersburg	33714	R	G	1,652	33,038			L	
Gibbs Senior High School	5 Music	854 34 Street South	St Petersburg	33715	R	G	776	15,529			L	
Gibbs Senior High School	6 Cafeteria	855 34 Street South	St Petersburg	33716	R	G	429	8,583			L	
Gulfport ES	3	2014 52nd Street S	St. Petersburg	33707	R	G	208	4,156			L	
Gulfport ES	4	2014 52nd Street S	St. Petersburg	33707	R	G	542	10,835			L	
Gulfport ES	5	2014 52nd Street S	St. Petersburg	33707	R	G	510	10,205			L	
Gulfport ES	7 Classroom	2014 52nd Street S	St. Petersburg	33707	R	G	265	5,309			L	
Gulfport ES	campus wide	2014 52nd Street S	St. Petersburg	33707		G	0	0		1,773	L	
High Point ES (2006)	3 Dining	5921 150th Ave	Clearwater	33760	N	G	0	0			L	6.2' SLOSH
High Point ES (2006)	4 Classroom	5921 150th Ave	Clearwater	33760	N	G	0	0			L	6.2' SLOSH
High Point ES (2006)	5 Classroom	5921 150th Ave	Clearwater	33760	N	G	0	0			L	6.2' SLOSH
High Point ES (2006)	6 Classroom	5921 150th Ave	Clearwater	33760	N	G	0	0			L	6.2' SLOSH
High Point ES Campus		5921 150th Ave	Clearwater	33760	N	G				2,217		6.2' SLOSH

PINELLAS

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Largo High School	11 (1st floor)	410 N Missouri Avenue	Largo	33770	R	G	745	11,172		641	L	wall questions
Lealman Intermediate Middle School	1-cr	4900 28th St. N	St Petersburg	33714	N	G	462	9,235		1,223	F,S,L	replace old bldgs
Lealman Intermediate Middle School	2-dining	4900 28th St. N	St. Petersburg	33714	R	G	110	2,201				
Lealman Intermediate Middle School	4-gym	4900 28th St. N	St Petersburg	33714	N	G	480	9,552				
Lealman Intermediate Middle School	5-ESE / Multipurpose	4900 28th St. N	St Petersburg	33714	R	G	569	11,386				
Leila Davis Elem School	5 Classroom	2630 Landmark Drive	Clearwater	33761	N	G	318	6,364				
McMullen Booth E S	4 (1st floor)	3025 union st	Clearwater	33579	R	G	267	5,330		885	HMGP	
McMullen Booth E S	5 (1st floor)	3025 union st	Clearwater	33579	R	G	267	5,330			HMGP	
McMullen Booth Elem School	7 Classroom	3025 union st	Clearwater	33759	N	G	209	4,186				
Mildred Helms Elem School	12 Classroom	561 S. Clearwater -Largo RD	Largo	33770	N	G	470	9,406				
New Heights Elementary School	campus wide	3901 37th St. N	St. Petersburg	33714	N	G	0	0		2,304		
New Heights Elementary School	2 Library	3902 37th St. N	St. Petersburg	33715	N	G	0	0				
New Heights Elementary School	3 Dining	3902 37th St. N	St. Petersburg	33715	N	G	239	4,772				
New Heights Elementary School	4 Classroom	3903 37th St. N	St. Petersburg	33716	N	G	487	9,746				
New Heights Elementary School	5 Classroom	3904 37th St. N	St. Petersburg	33717	N	G	465	9,305				
New Heights Elementary School	6 Classroom	3905 37th St. N	St. Petersburg	33718	N	G	425	8,497				
Northside Baptist Church		6000 38 Avenue North	St Petersburg	33710			0	0	758	505		2.8' SLOSH
Palm Harbor Middle School	4 (1st floor)	1800 SR 584	Palm Harbor	34683	R	G	487	9,739				per PBSJ report
Palm Harbor Middle School	5 (1st floor)	1800 SR 584	Palm Harbor	34683	R	G	561	11,216				per PBSJ report
Palm Harbor Middle School	7 Classrom (2009)	1800 SR 584	Palm Harbor	34683	R	G	0	0		1,389	HMGP	good-1st floor-impact glass
Palm Harbor University HS	2	1900 Omaha Street	Palm Harbor	34683	R	G, A	368	7,350				per PBSJ report
Palm Harbor University HS	3	1900 Omaha Street	Palm Harbor	34683	R	G, A	391	7,815				per PBSJ report
Palm Harbor University HS	4	1900 Omaha Street	Palm Harbor	34683	R	G, A	613	12,250				per PBSJ report
Palm Harbor University HS	5	1900 Omaha Street	Palm Harbor	34683	R	G, A	719	14,372			HMGP	per PBSJ report
Palm Harbor University HS	6	1900 Omaha Street	Palm Harbor	34683	R	G, A	250	4,993				per PBSJ report
Palm Harbor University HS	7 Classroom	1900 Omaha Street	Palm Harbor	34683	R	G, A	362	7,233				per PBSJ report
Palm Harbor University HS	8	1900 Omaha Street	Palm Harbor	34683	R	G, A	483	9,656				per PBSJ report
Palm Harbor University HS	9	1900 Omaha Street	Palm Harbor	34683	R	G, A	183	3,660				per PBSJ report
Palm Harbor University HS	10	1900 Omaha Street	Palm Harbor	34683	R	G, A	510	10,191				per PBSJ report
Palm Harbor University HS	11	1900 Omaha Street	Palm Harbor	34683	R	G, A	469	9,381			HMGP	per PBSJ report
Palm Harbor University HS	12	1900 Omaha Street	Palm Harbor	34683	R	G, A	83	1,660				per PBSJ report
Palm Harbor University HS		1900 Omaha Street	Palm Harbor	34683	R	G, A	0	0		1,599	HMGP	
Pinellas Central Elem School	6 Classroom	10501 58th Street	Pinellas Park	33782	N	G					L	9' SLOSH
Pinellas Park High School	1	6305 118 Avenue North	Pinellas Park	33771	R	G, A	0	0	2,075	2,767	HMGP	wall questions also unprotected higher windows? Surge?, 4.1' SLOSH
Ridgecrest Elem School	17 Classroom	1901 119th Street N	Largo	33778	N	G	129	2,587				
Ross Norton Recreation Center		1426 Martin Luther King Jr Ave	Clearwater		N	G	303	6,060		405	L	
Safety Harbor Elem Schol	11	535 5th Avenue N	Safety Harbor	34695	N	G					L	7.87' SLOSH
Safety Harbor Middle School	2, 3, 4, 5, 6, 7, 9, 11, 12, 14 & 15	125 7 Street North	Safety Harbor	34695	R	G, A					L	surge issues, 8.6' SLOSH
Safety Harbor Middle School	2 (2nd floor) & 3 (2nd floor)	901 1ST Ave North	Safety Harbor	34695	N	G				4,452	L	2nd floor only- surge issues- in Cat 4 zone. Both floors in exiting storm. 8.6' SLOSH
Sanderlin, James B Elem School	4	2350 22nd Ave S	St. Petersburg		R	G	337	6,800			S-1508-2005	
Sanderlin, James B Elem School	5	2350 22nd Ave S	St. Petersburg		R	G	338	6,800			S-1508-2005	
Sanderlin, James B Elem School	4 & 5	2350 22nd Ave S	St Petersburg	33712	R	G, A	56	1,120		837		not done 1435A
Sanderlin, James B Elem School	7 Clssroom	2350 22nd Ave S	St. Petersburg	33712	N	G	129	2,587			L	
Seventy-Fourth Street Elem School	9 Classroom	3801 74th Street N	St. Petersburg	33709	N	G	129	2,587			L	
Sexton ES	4 & 5	1997 54th Ave N	St. Petersburg		R	G, A	655	9,977		915	L	

PINELLAS

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Skycrest Elem School	6 Classroom	10 N. Corona Avenue	Clearwater	33765	N	G	531	10,620		522	S	Classroom Size Reduction
Skycrest Elem School	11 Classroom	8601 60th Street N	Pinellas Park	33782	N	G	0	0			L	6.93' SLOSH
Southern Oak Elem School	13 Classroom	9101 Walsingham Road	Largo	33733	N	G	0	0			L	11.16' SLOSH
St. Petersburg High School	4 & 5-1st & 2nd floor	2501 5th Avenue North	St Petersburg	33713	R	G, A	1,755	35,100		943	HMGP	PBSJ report
Tarpon Springs Middle School	4 & 5-1st floors only	500 N Florida Avenue	Tarpon Springs	34689	R	G, A	0	0		1,413	L	impact glass, 5.2' SLOSH
Thurgood Marshall Middle School	1 thru 6	3901 22 Ave. S.	St Petersburg	33711	N	G, A	0	0		4,002	F,S	old bldgs-surge 7.7' SLOSH
TOTALS FOR PINELLAS COUNTY							**31,504**	**605,419**	**5,169**	**51,753**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**31,504**	**42,178**	**-10,674**	**605,419**			**-238,141**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Dunedin Highland MS	2	70 Patricia Ave	Dunedin	34698	N	P	379	22,727		1,596		SpNS 1,596 + 400 Pet Owners
Dunedin Highland MS	3	70 Patricia Ave	Dunedin	34698	N	P	426	25,534				PBSJ - study
John Hopkins Middle School	5 & 6	701 16th Street South	St Petersburg	33705	R	P, A	407	24,456		1,113	L	PBSJ - study
Oak Grove Middle School	1 & 6	1370 S Belcher Road	Clearwater	33764	N	P, A	1,056	63,360		1,584		SpNS 1,584 + 400 PetOwners

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**2,268**	**4,000**	**-1,732**	**136,080**			**-103,920**	**DEFICIT**			

2016 Statewide Emergency Shelter Plan

POLK

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity) @15 SqFt/per person	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Alta Vista ES	9	801 Scenic Hwy	Haines City	33844	N	G, A	345	5,182		432	L	open 2006
Auburndale High School		1 Bloodhound Trail	Auburndale	33823			0	0	644			
Bartow Family Health Care Center		5 Brice Boulevard	Bartow	33830	R	P	0	0	0			
Bartow Senior High School	23- cafeteria	1270 S Broadway	Bartow	33830	N	G	436	6,536		495	L	open 2004
Boone, Shelleys Middle School		225 S 22nd Street	Haines City	33844					114			
Chain of Lakes ES	6	7001 SR 653	Winter Haven	33884	N	G	143	0			L	open 2005
Chain of Lakes ES	3th- 2nd floor	7001 SR 653	Winter Haven	33884	N	G	454	6,804		521	L	open 2005
Chain of Lakes ES	3th-1st floor	7001 SR 653	Winter Haven	33884	N	G	495	7,421		521	L	open 2005
Chain of Lakes ES	4th- 1st floor	7001 SR 653	Winter Haven	33884	N	G	448	6,714		522	L	open 2005
Chain of Lakes ES	4th-2nd floor	7001 SR 653	Winter Haven	33884	N	G	483	7,248		521	L	open 2005
Chain of Lakes ES	5-Dining	7001 SR 653	Winter Haven	33884	N	G	323	4,840		327	L	open 2005
Combee Elem School	17	2805 Morgan Combee Road	Lakeland	33805	N	G	358	5,371		342	L	open 2006
George Jenkins High School		6000 Lakeland Highlands Rd	Lakeland	33813			0	0	359			
Haines City High School	8 Dining	2800 Hornet Drive	Haines City	33844	N	G	429	11,171		559	L	Per County 2013
Haines City High School	20 Classroom	2800 Hornet Drive	Haines City	33844		G	0	0		3,300	L	Per County 2013
Highlands Grove Elementary	3 - 1st Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G	461	6,921		582	L	
Highlands Grove Elementary	3 - 2nd Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G	557	8,348		585	L	
Highlands Grove Elementary	4 - 1st Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G	477	7,149		582	L	
Highlands Grove Elementary	4 - 2nd Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G	474	7,105		585	L	
Highlands Grove Elementary	5 Dining	4510 Lakeland Highlands Rd	Lakeland	33813	N	G	332	4,981		435	L	Per County
Horizons ES	3-1st Floor	1700 Forest Lake Drive	Davenport	33837	N	G	462	6,924		582	L	Per County
Horizons ES	3-2nd Floor	1700 Forest Lake Drive	Davenport	33837	N	G	571	8,564		585	L	Per County
Horizons ES	4-1st Floor	1700 Forest Lake Drive	Davenport	33837	N	G	475	7,122		582	L	Per County
Horizons ES	4-2nd Floor	1700 Forest Lake Drive	Davenport	33837	N	G	484	7,263		585	L	Per County
Horizons ES	5-Dining	1700 Forest Lake Drive	Davenport	33837	N	G	358	5,366		444	L	Per County
Jewett School of the arts	7	2250 8th Str NE	Winter Haven	33881	N	G	353	5,299		590	L	open 2002
Jewett School of the Arts	9	2250 8th Str NE	Winter Haven	33881	N	G	447	6,707		417	L	open 2006
Jewett School of the arts	8 Art Clsrm	2250 8th Str NE	Winter Haven	33881	N	G	173	2,596		190	L	open 2002
Karen Siegel Academy (General classrms)	7-cafeteria	935 North Buena Vista	Lake Alfred	33850	N	G	68	1,018		78	L	open 2004
Kathleen Elem School	11	3515 Sheretz Road	Lakeland	33810	N	G	536	8,035		651	L	open 2006
Kathleen High School		2600 N Crutchfield Road	Lakeland	33809					234			
Lake Gibson High School	14 - 1st Floor	7007 N Socrum Loop	Lakeland	33809	N	G	0	6,300		417	L	Built 2005
Lake Gibson High School	14 - 2nd Floor	7007 N Socrum Loop	Lakeland	33809	N	G	377	5,651		417	L	Built 2005
Lake Gibson Middle School		6901 N Socrum Loop	Lakeland	33809			0	0	305			
Lake Marion Creek School	2 Gym	3055 Lake Marion Creek Rd	Poinciana	34759	N	G	580	8,694		512	L	
Lake Marion Creek School	3 - 1st Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G	575	8,626		802	L	
Lake Marion Creek School	3 - 2nd Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G	801	12,008		847	L	
Lake Marion Creek School	5 - 1st Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G	693	10,400		846	L	
Lake Marion Creek School	5 - 2nd Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G	830	12,456		847	L	
Lake Marion Creek School	6 Café	3055 Lake Marion Creek Rd	Poinciana	34759	N	G	0	4,845		442	L	

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Lake Region High School	1	1995 Thunder Road	Eagle Lake	33839	R	G	0	0			S, F	
Lake Region High School	2	1995 Thunder Road	Eagle Lake	33839	R	G	318	4,768			S,F	per PBSJ study- hallways
Lake Region High School	3	1995 Thunder Road	Eagle Lake	33839	R	G, A	211	3,172			S, F	per PBSJ study- hallways
Lake Region High School	4	1995 Thunder Road	Eagle Lake	33839	R	G	478	7,168			S, F	per PBSJ study- hallways
Lakeland Highlands MS	3	740 Lake Miriam Drive	Lakeland	33813	N	G	0	8,400		557	L	open 2006
Laurel Elementary School	1	1851 Laurel Avenue	Poinciana	34759	N	G	368	5,516		387	L	
Laurel Elementary School	6 Classroom	1851 Laurel Avenue	Poinciana	34759	N	G	576	8,634		832	L	Per County
Lincoln Avenue Academy	9	1330 N. Lincoln Ave	Lakeland	33805	N	G	0	5,955		445	L	open 2006
Loughman Oaks ES	7 Classroom	4600 US Highway 17 92 N	Davenport	33837	N	G	339	5,084		343	L	open 2006
McKeel Academy	14 Gym	1810 W. Parker St	lakeland	33815	N	P	0	0		727	L	open 2004
Medulla Community Center					R	G	175	3,480			HB7121	
N.E. Roberts ES	4 Clsrms	6600 Green Rd	Lakeland	33810	N	G	495	7,427		487	L	open 8/02
N.E. Roberts ES	6 Clasrms	6600 Green Rd	Lakeland	33810	N	G	0	4,875		488	L	open 8/02
N.E. Roberts ES	7 Clasrms	6600 Green Rd	Lakeland	33810	N	G	275	4,124		382	L	per County
N.E. Roberts ES	2 Dining	6600 Green Rd	Lakeland	33810	N	G	296	4,447		367	L	open 8/02
O'Brien Elementary	9	1225 E. Lime St	Lakeland	33801	N	G, A	397	5,960		500	L	per County
O'Brien Elementary	10	1225 E. Lime St	Lakeland	33801	N	G	420	6,303		544	L	per County
Palmetto Elementary School	5	315 Palmetto Street	Poinciana	34759	N	G	698	10,465		797	L	per County
Palmetto Elementary School	4 Dining	315 Palmetto Street	Poinciana	34759	N	G	348	5,227		346	L	per County
Pinewood ES	6	1400 Gilber Street	Eagle Lake	33839	N	G	316	4,746		404	L	open 2006
Purcell ES	3	305 First Ave NE	Mulberry	33860	N	G	414	6,211		541	L	open 2006
R.B. Wagner Elementary	2	5500 Yates Road	Lakeland	33811	N	G	298	4,477		367	L	open 8/02
R.B. Wagner Elementary	4	5500 Yates Road	Lakeland	33811	N	G	495	7,427		487	L	open 8/02
R.B. Wagner Elementary	6	5500 Yates Road	Lakeland	33811	N	G	0	4,875		487	L	open 8/02
R.B. Wagner Elementary	7 Classroom	5500 Yates Road	Lakeland	33811	N	G	240	3,602		376	L	per County
Ridge Community HS (Senior)	2 - 1st Floor	500 W Orchid Drive	Davenport	33837	N	G	995	14,922		909	L	19,140 sq ft / 957 spaces-no survey
Ridge Community HS (Senior)	2 -2nd Floor	500 W Orchid Drive	Davenport	33837	N	G	773	11,601		868	L	15,661 sq ft / 783 spaces- no survey
Ridge Community HS (Senior)	3 - 1st Floor	500 W Orchid Drive	Davenport	33837	N	G	713	10,696		888	L	17,722 sq ft / 887 spaces- no survey
Ridge Community HS (Senior)	3 - 2nd Floor	500 W Orchid Drive	Davenport	33837	N	G	737	11,062		711	L	13,680 sq ft / 684 spaces- no survey
Ridge Community HS (Senior)	5 - 1st Floor	500 W Orchid Drive	Davenport	33837	N	G	413	6,202		405	L	8,706 sq ft / 435 spaces- no survey
Ridge Community HS (Senior)	6 (Gym)	500 W Orchid Drive	Davenport	33837	N	P	0	0		770	L	14,835 sq ft / 742 spaces-no survey
Ridgeview Global Studies Academy (Ridgeview ES)	2 Cafeteria	1000 Dunson Rd.	Davenport	33837	N	G	353	5,288		374	L, S	1523-2003
Ridgeview Global Studies Academy (Ridgeview ES)	6 Classroom	1000 Dunson Rd.	Davenport	33837	N	G	0	4,725		501		EHPA
Ridgeview Global Studies Academy (Ridgeview ES)	7 Classroom	1000 Dunson Rd.	Davenport	33837	N	G	240	3,604		376	L	per County
Rochelle School of Arts	15 - 1st flr	1501 MLK Avenue	Lakeland	33805	N	G	469	7,039		435		
Rochelle School of the Arts	15 - 2nd flr	1501 MLK Avenue	Lakeland	33805	N	G	375	5,617		511	L	open 2006
Sandhill Elem School	2 Cafeteria	1801 Tyner Road	Haines City	33844	R	G	239	3,584		374	L, S	S-1523-2003
Sandhill Elem School	6 Classroom	1801 Tyner Road	Haines City	33844	N	G	380	5,703		501	L	open 2003
Sandhill Elem School	7 Classroom	1801 Tyner Road	Haines City	33844	N	G	238	3,577		376	L	per County
Scott Lake ES	4	1140 E. County Road 540A	Lakeland	33813	N	G	413	6,201		432	L	open 2006
Sleepy Hill ES	3- 1st floor	2285 Sleepy Hill Road	Lakeland	33810	N	G	516	7,741		582	L	open 2006
Sleepy Hill ES	3-2nd floor	2285 Sleepy Hill Road	Lakeland	33810	N	G	0	8,325		585	L	open 2006
Sleepy Hill ES	4- 1st floor	2285 Sleepy Hill Road	Lakeland	33810	N	G	461	6,911		582	L	open 2006
Sleepy Hill ES	4-2nd floor	2285 Sleepy Hill Road	Lakeland	33810	N	G	0	6,795		585	L	open 2006
Sleepy Hill ES	5-Dining	2285 Sleepy Hill Road	Lakeland	33810	N	G	358	5,366		444	L	open 2006

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Southwest ES	9	2650 Southwest Avenue	Lakeland	33803	N	G	385	5,771		425	L	open 2006
Spook Hill ES	14	321 East North Avenue	Lake Wales	33853	N	G	344	5,162		343	L	open 2006
Stambaugh, Jere L Middle School	1	226 N Bartow Road	Auburndale	33823	R	G	0	0	308		S, F	not Completed
Stambaugh, Jere L Middle School	3	226 N Bartow Road	Auburndale	33823	R	G	0	0			S, F	not Completed
Stambaugh, Jere L Middle School	8	226 N Bartow Road	Auburndale	33823	R	G	0	0			S, F	not Completed
Stambaugh, Jere L Middle School	9 Gymnasium	226 N Bartow Road	Auburndale	33823		G	0	0	0			
Stephens ES	5	1350 N Maple Street	Bartow	33830	N	G	318	4,763		402	L	open 2006
Tenoroc Senior High	2-1st Floor	4905 Saddle Creek Road	Lakeland		N	G	1,016	15,237		962	L	per County
Tenoroc Senior High	2-2nd Floor	4905 Saddle Creek Road	Lakeland		N	G	908	13,623		870	L	per County
Tenoroc Senior High	3-1st floor	4905 Saddle Creek Road	Lakeland		N	G	0	10,245		742	L	per County
Tenoroc Senior High	3-2nd floor	4905 Saddle Creek Road	Lakeland		N	G	742	11,125		654	L	per County
Tenoroc Senior High	5-Dining	4905 Saddle Creek Road	Lakeland		N	G	404	6,056		437	L	per County
Tenoroc Senior High	6-Gym	4905 Saddle Creek Road	Lakeland		N	G	1,123	16,852		754	L	per County
Winter Haven High School	20-Café	600 6th Street SE	Winter Haven	33880	N	G	449	6,736		492	L	per County
						TOTALS FOR POLK COUNTY	**34,517**	**586,537**	**1,964**	**47,297**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**34,517**	**42,257**	**-7,740**	**586,537**			**-258,603**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bartow Adult Day Care Center	Center				R	P	0	0			EMPA	Backup Shelter. No LRDM.
Haines City Adult Day Care Center	Center				R	P	0	0			EMPA	Backup Shelter. No LRDM.
Lakeland Senior Center, Bartow, Haines City Senior Centers							0	0	700	0		
McKeel Academy	14 Gym	1810 W. Parker St	Lakeland	33815	N	P	242	14,532		727	L	Built 2004
Ridge Community HS (Senior)	6 Gym	500 Orchid Drive	Davenport	33837	N	P	412	16,475		1,235	L	Built 2004
Polk County Health Dept Specialty Care Unit		1255 Brice Blvd	Bartow	33830		P	409	24,575				Per County 2013
							0	0				

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,063**	**3,246**	**-2,183**	**63,780**			**-130,980**	**DEFICIT**			

PUTNAM

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Browning-Pearce Elementary School (NEW)	1 Admin	100 Bear Boulevard	San Mateo	32187	N	G	80	1,600			S	Built 1988. Contract 13-SR-AA-04-64-03-494 Completed 2015
Browning-Pearce Elementary School (NEW)	2 Classroom	100 Bear Boulevard	San Mateo	32187	N	G	500	10,000			S	Built 1988. Contract 13-SR-AA-04-64-03-494 Completed 2015
Browning-Pearce Elementary School (NEW)	3 Classroom	100 Bear Boulevard	San Mateo	32187	N	G	500	10,000			S	Built 1988. Contract 13-SR-AA-04-64-03-494 Completed 2015
Browning-Pearce Elementary School (NEW)	4 Multipurpose	100 Bear Boulevard	San Mateo	32187	N	G	500	10,000	400	325	S, L	Built 1988. Contract 13-SR-AA-04-64-03-494 Completed 2015
Browning-Pearce Elementary School (NEW)	5 Classroom	100 Bear Boulevard	San Mateo	32187	N	G	500	10,000			S	Built 1988. Contract 13-SR-AA-04-64-03-494 Completed 2015
Browning-Pearce Elementary School (NEW)	6 Classroom	100 Bear Boulevard	San Mateo	32187	N	G	200	4,000			S	Built 1988. Contract 13-SR-AA-04-64-03-494 Completed 2015
Browning-Pearce Elementary School (NEW)	12 Classroom	100 Bear Boulevard	San Mateo	32187	N	G	150	3,000			S	Built 2001. Contract 13-SR-AA-04-64-03-494 Completed 2015
Crescent City Jr / Sr High School	1 Classroom	2201 S Highway 17	Crescent City	32112		G	0	0		1,000		
Interlachen Elementary School	2 Classroom	251 S State Rd 100	Interlachen	32148	N	G	0	0		459		Built 1988. 2014 LRDM Survey
Interlachen Elementary School	3 Classroom	251 S State Rd 100	Interlachen	32148	N	G	0	0		431		Built 1988. 2014 LRDM Survey
Interlachen Elementary School	4 Cafeteria / Classroom	251 S State Rd 100	Interlachen	32148		G	0	0		376		Built 1988. 2014 LRDM Survey
Interlachen Elementary School	5 Classroom	251 S State Rd 100	Interlachen	32148	N	G	0	0		470		Built 1988. 2014 LRDM Survey
Interlachen Elementary School	6 Classroom	251 S State Rd 100	Interlachen	32148	N	G	0	0		272		Built 1988. 2014 LRDM Survey
Jenkins Middle School	5 Gymnasium	1100 N 19th Street	Palatka	32177	R	G	0	0		600	HB7121	2014 LRDM Survey
Kelley Smith ES	6 Classroom	141 Kelly Smith Road	Palatka	32177	R	G	0	0			HB7121	dropped
Kelley Smith ES	12 Classroom	141 Kelly Smith Road	Palatka	32177	R	G	240	4,809		240		Surveyed 2014 (EHPA)
Middleton Burney ES	1 Classroom	1020 Huntington Road	Crescent City	32112	R	G	805	16,100		805	HB7121	
Ochwilla Elementary School	4 Dining	299 N SR 21	Melrose	32640	N	G, A	260	3,894		325	S, L	sf per shelter study
Palatka High School	1 Whole	302 Mellon Road	Palatka	32177		G	0	0		1,000		2014 LRDM Survey
QI Roberts Middle School	2 Classroom	901 SR100	Florahome	32140	N	G	193	4,321		216	L	EHPA per 2014 LRDM
QI Roberts Middle School	5 Gymnasium	901 SR100	Florahome	32140	N	G	424	8,485		424	L	EHPA per 2014 LRDM
QI Roberts Middle School	6 Classroom	901 SR100	Florahome	32140	N	G	194	4,687		234	L	EHPA per 2014 LRDM
				TOTALS FOR PUTNAM COUNTY			4,546	90,896	400	7,177		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**4,546**	**4,748**	**-202**	**90,896**			**-4,064**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
K. Smith School- New bldg	12	141 Kelly Smith Road	Palatka	32177	N	P	145	8,677		144		Built 2006
TBD												

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**145**	**100**	**45**	**8,677**			**2,677**	**SURPLUS**			

SAINT JOHNS

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Allen D Nease HS		10550 Ray Road	St. Augustine	32081			0	0	800	800		
Bartram Trail High School	4-Gymnasium (1st Floor)	2050 Roberts Road	St. Johns	32259	N	G	1,098	27,455	0	500	L	2014 LRDM
Creekside High School		100 Knights Lane	St. Johns	32259						500		
Creekside High School	1 Dining (1st Floor)	100 Knights Lane	St. Johns	32259	N	G	608	12,167				Built 2006. 2014 LRDM. Dining Only
Creekside High School	2 Library / Music	100 Knights Lane	St. Johns	32259	N	G	184	3,671				Built 2006. 2014 LRDM. Music area meets ARC 4496. Library needs Fenestration protection
Creekside High School	3 Auditorium	100 Knights Lane	St. Johns	32259	N	G	321	6,420				Built 2006. 2014 LRDM
Creekside High School	4 Gymnasium	100 Knights Lane	St. Johns	32259	N	G	678	13,564				Built 2006. 2014 LRDM
Cunningham Creek Elementary School	1 Classroom	1205 Roberts Road	St. Johns	32259	R	G	671	13,422				Built 1995. 2014 LRDM
Cunningham Creek Elementary School	2, 3, 4	1205 Roberts Road	St. Johns	32259	R	G	1,200	20,788		800	HMGP	Built 1995. 2014 LRDM
Durbin Creek Elementary	1 Section A2, A3 & B Classroom	4100 Race Track Road	St. Johns	32259	N	G	1,788	44,688		500	L	Built 2003. 2014 LRDM
Durbin Creek Elementary	1 Section E & F Cafeteria / Audit	4100 Race Track Road	St. Johns	32259	N	G	1,788	4,527				Built 2003. 2014 LRDM
Durbin Creek Elementary	2	4101 Race Track Road	St. Johns	32259	R	G	252	5,040			S-1621X	
Fruit Cove Middle School	Gym	2680 Race Track Road	St. Johns	32259	N	G	1,122	28,060		500	L	area per ARMOR- 800 section
Gamble Rogers Middle School		6250 US 1 South	St. Augustine	32086						800		16.86' SLOSH
W Douglas Hartley Elementary School	3 Classroom	260 Cacique Drive	St. Augustine	32086			471	9,415	335	335		Built 2010. 2014 LRDM.
Hickory Creek Elem School	1 Section C Classroom	235 Hickory Creek Trail	St. Johns	32259	N	G	334	6,675				Built 2004. 2014 LRDM.
Hickory Creek Elem School	1 Section D Classroom	235 Hickory Creek Trail	St. Johns	32259	N	G	395	7,891				Built 2004. 2014 LRDM.
Hickory Creek Elem School	1 Section E & F Cafeteria / Auditorium	235 Hickory Creek Trail	St. Johns	32259	N	G	229	4,572		500	L	Built 2004. EHPA. 2014 LRDM.
Hickory Creek Elem School	2 Classroom	235 Hickory Creek Trail	St. Johns	32259	N	G	276	5,511				Built 2010. 2014 LRDM
Julington Creek Elementary School	2 Section Cafeteria / Classroom	2316 Racetrack Road	St. Johns	32259		G	378	7,567				Built 2007. 2014 LRDM: Cafeteria area has no windows and appears to currently meet the ARC 4496 requirements. Classroom area has Unprotected Fenestration.
Mill Creek Elementary School	7 Classroom	6350 International Golf Parkway	St. Johns	32092	N	G	856	17,121				Built 2010. 2014 LRDM.
Murray Middle School		150 N. Holmes Blvd	St. Augustine	32084					189	189		
Osceola Elementary School	2, 4	1605 Osceola Elementary F	St. Augustine	32084	R	G	0	0	0	800	HMGP	12.3' SLOSH
Osceola Elementary School	6 Classroom	1605 Osceola Elementary F	St. Augustine	32084	N	G	362	7,234				Built 2011. 2014 LRDM.
Otis Mason Elementary School	1 Classroom	207 Mason Manatee Way	St. Augustine	32086	R	G	662	13,236				Built 1992. 2014 LRDM.
Otis Mason Elementary School	2 Classroom	207 Mason Manatee Way	St. Augustine	32086	R	G	253	5,060	0		HMGP	Built 1992. 2014 LRDM.
Otis Mason Elementary School	3 Classroom	207 Mason Manatee Way	St. Augustine	32086	R	G	333	6,657	0	800	HMGP	Built 1992. 2014 LRDM.
Otis Mason Elementary School	4 Classroom	207 Mason Manatee Way	St. Augustine	32086	R	G	416	8,323	0		HMGP	Built 1992. 2014 LRDM.
Patriot Oaks Academy	1 Main	475 Longleaf Pine Parkway	St. Johns	32259		G	500	10,000		500	DRI Mitigation Project	EHPA: reported by County 2015
Pedro Menendez High School	4-Gymnasium (1st Floor)	600 SR-206 West	St. Augustine	32086	N	G	1,233	30,823	0	500	L	Built 1999. 2014 LRDM: Gym EHPA / Classroom Non-EHPA

SAINT JOHNS

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Sebastian Middle School		2955 Lewis Speedway	St. Augustine	32084					800	800		13.75' SLOSH
South Woods Elementary School	1 Section E & F Cafeteria \ Auditorium	4750 SR 206 West	Elkton	32033	N	G, A	226	4,527		500	L	Built 2004. LRDM 2014
Saint Augustine High School		3205 Varella Avenue	St. Augustine	32084					800	800		8.94' SLOSH
Switzerland Point Middle School		777 Greenbriar Road	St. Johns	32259						800		
Timberlin Creek Elem School	1 - Section E & F Cafeteria / Audit	555 Pine Tree Lane	St. Augustine	32092	N	G, A	226	4,527		500	L	Built 2004. EHPA. 2014 LRDM.
Timberlin Creek Elem School	2 Classroom	555 Pine Tree Lane	St. Augustine	32092	N	G, A	276	5,511		500	L	Built 2004. EHPA. 2014 LRDM.
Webster Elementary	2 Main	420 North Orange Street	St. Augustine	32084					80	80		Built 1994. 2014 LRDM
TOTALS FOR SAINT JOHNS COUNTY							**17,135**	**334,452**	**3,004**	**12,004**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**17,135**	**11,325**	**5,810**	**334,452**			**107,952**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Hastings Community Center 2nd Tier	Aud	6195 S Main Street	Hastings	32145	R	P				200	S-1395B	
Pacetti Bay MS		245 Meadowlark Lane	St. Augustine	32092	N	P	500	60,000		300		Built Aug 2006. EHPA

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**500**	**515**	**-15**	**30,000**			**-900**	**DEFICIT**			

SAINT LUCIE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bayshore ES	Café	1661 SW Bayshore Blvd	Port St. Lucie	34984	R	G	499	12,481		220	S-1118A	
C.A. Moore Elementary School	9-Café	827 N 29th Street	Ft. Pierce	34947	R	G	677	16,917	0	412	S-1543	confirmed PBSJ report.
Copper Creek K-8		12051 Copper Creek Dr	Port St. Lucie	34987	N	G	500	10,000		500		
Dale Cassins School		1901 S 11th Street	Ft. Pierce	34947			0	0	0			
Dan Mc Carty MS	café	1201 Mississippi	Ft. Pierce	34950	R	P	0	0			L	
Dan Mc Carty MS	21	1201 Mississippi	Ft. Pierce	34950		G	220	4,400		220		
Fairlawn Elementary School		1900 S 33rd Street	Ft. Pierce	34947			0	0	100			no shutters, 1988 Const- 2005 PB SJ report.
Floresta Elementary School	1	3201 S 25th Street	Ft. Pierce	34950	R	G	770	19,247		411	S-1118A	tilit up walls okay.
Forest Grove Middle School		1501 SE Floresta Drive	Port St. Lucie	34983			0	0	0			
Frances K. Sweet Elementary School		1400 Avenue Q	Ft. Pierce	34950			0	0	120			no shutters, 1988 Const- 2005 PB SJ report.
Ft. Pierce Central High School		1101 Edwards Road	Ft. Pierce	34982			0	0	100			
Ft. Pierce Central High School		4101 S. 25th Street	Fort Pierce	34981	N	G	500	10,000		500		
Human Resources Development Center	Gym				R	G	350	7,000			S-pa	
Lakewood Park Elementary School	1	7800 Indrio Road	Ft. Pierce	34951	R	G	605	15,118		215	S-1118A	
Lincoln Park Academy		1806 Avenue	Ft. Pierce	34950					100			
Manatee Elementary School	Café	1450 SW Heatherwood	Port St. Lucie	34986	R	G	361	9,022		215	S	corridors and café
Mariposa Elementary School	Café	2620 SE Maripose Ave	Port St. Lucie	34952	R	G	361	9,022		225	S	corridors and café
Morningside Elementary School	1	2300 SE Gowin Drive	Port St. Lucie	N/A	R	G	543	13,566		215	S-1118A	corridors and café
Northport Middle School		250 NW Floresta	Port St. Lucie	34983			0	0	250			
Oak Hammock K-8 School	1	1251 SW California Blvd	Port St. Lucie	34953	N	G	1,521	30,425				Per PBSJ report
Oak Hammock K-8 School	2	1251 SW California Blvd	Port St. Lucie	34953	N	G	1,576	31,515				Per PBSJ report
Oak Hammock K-8 School	4	1251 SW California Blvd	Port St. Lucie	34953	N	G	513	12,826		500		Per PBSJ report
Oak Hammock K-8 School	5	1251 SW California Blvd	Port St. Lucie	34953	N	G	487	9,738				Per PBSJ report
Parkway ES	Café	7000 NW Selvitz Road	Ft. Pierce	34981	R	G	417	10,418		220	S-1118A	Cafeteria only????
Port St. Lucie High School		1201 SE Leennard Road	Port St. Lucie	34952			0	0	150			
Samuel S Gaines K-8		2250 S Jenkins Road	Fort Pierce	34947	N	G	500	10,000		500		
Savanna Ridge ES	1 Café	6801 Lennard Rd	Port St. Lucie	34982	R	G	677	16,917		516	S-1523-2002	
Southport Middle School		2420 SE Morningside	Port St. Lucie	34952			0	0	100			
St. Lucie (SpNS)	Auditorium	2000 Virginia Ave	Ft. Pierce	394945	N	P	0	0		500	CBIR S1508A	06CP-4Y-01-13-01-299.
St. Lucie West Middle School		1001 SW Juliet Avenue	Port St. Lucie	34986			0	0	450			
Treasure Coast HS		1000 SW Darwin BLVD	Port St. Lucie		N	G	1,875	46,874				
Village Green Elementary School	Café	1700 Lennard Road	Port St. Lucie	34952	R	G	348	8,706		220	S-1118A	
Weatherbee ES	Café	800 E. Weatherbee Rd	Port St. Lucie	34982	R	G	975	24,385		576	S-1523-2002	
West Gate K-8		1050 SW Cashmere Blvd	Port St. Lucie		N	G	500	10,000				
Westwood High School	1	1801 Panther Lane	Ft. Pierce	34947	R	G	1,733	43,326		632	S	verified by LRDM
White City Elementary School		905 W 2nd Street	Ft. Pierce	34982			0	0	50			
Windmill Point Elementary School	Café	700 Darwin Boulevard	Port St. Lucie	34983	R	G	377	9,435		220	S-1118a	
TOTALS FOR SAINT LUCIE COUNTY							**16,885**	**391,338**	**1,420**	**7,017**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**16,885**	**7,833**	**9,052**	**391,338**			**234,678**	**SURPLUS**			

2016 Statewide Emergency Shelter Plan

SAINT LUCIE

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Port St. Lucie Community Center	2	2195 SE Airoso Blvd	Port St. Lucie	34984		P	166	11,161		166		
Havert L Fenn Community Center		2000 Virginia Ave	Ft. Pierce	34945		P	334	20,040		334		06CP-4Y-01-13-01-299. DOH notes 1600 k/w Generator (w/ 8,000 gallon fuel tank) supports HVAC
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**500**	**2,851**	**-2,351**	**30,000**			**-141,060**	**DEFICIT**				

SANTA ROSA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Avalon Middle School	1	5445 King Arthur's Way	Milton	32583	N	G, A	352	8,855		1,846	HMGP	
Avalon Middle School	1	5445 King Arthur's Way	Milton	32583	R	G	1,343	26,855				
Bennet C. Russel ES	1 - All other corridors	3740 Excalibur Way	Milton	32583	N	G	4,000	80,007		500	HB7121	The 500 spaces would be care givers / family members that would be accompaning person with special needs.
Chumuckla Community Center	Main Bldg Meeting Area	2355 Highway 182	Jay	32565	R	G	115	2,318		115	S-1543A	per County update
City of Milton Community Center	Main	5629 Byron	Milton	32570	N	G	352	7,040		352	HMGP	May be used as both Spns and General during small incidents
Dixon Intermediate School	1	5540 Education Drive	Pace	32571	R	G	2,193	37,469		1,200	HMGP S-1496-2009	
Thomas L. Sims Middle School	1	5500 Education Drive	Pace	32571	R	G, P	704	42,262		0	HMGP	Alternate SpNS
Jay High School	27 Corridors 100, 200, 300 & 500	3741 School Road	Jay	32565	N	G	753	15,050		753	L	Certificate of Participation (COP's)
Jay High School	28 Corridor 400	3741 School Road	Jay	32565	N	G	130	2,600		0		
West Navarre Primary School	100 wing	1955 Lowe Road	Navarre	32566	R	G	98	1,960		0	S FY 11-12 1515A	Completed 4-10-2014 (Will not be used as Risk Shelter because it is located in the South end of the County)
West Navarre Primary School	200 wing	1955 Lowe Road	Navarre	32566	R	G	385	7,700		0	S FY 11-12 1515A	Completed 4-10-2014 (Will not be used as Risk Shelter because it is located in the South end of the County)
West Navarre Primary School	300 wing	1955 Lowe Road	Navarre	32566	R	G	497	9,940		0	S FY 11-12 1515A	Completed 4-10-2014 (Will not be used as Risk Shelter because it is located in the South end of the County)
West Navarre Primary School	400 wing	1955 Lowe Road	Navarre	32566	R	G	425	8,500		0	S FY 11-12 1515A	Completed 4-10-2014 (Will not be used as Risk Shelter because it is located in the South end of the County)
West Navarre Primary School	500 wing	1955 Lowe Road	Navarre	32566	R	G	343	6,860		0	S FY 11-12 1515A	Completed 4-10-2014 (Will not be used as Risk Shelter because it is located in the South end of the County)
West Navarre Primary School	600 wing	1955 Lowe Road	Navarre	32566	R	G	377	7,540		0	S FY 11-12 1515A	Completed 4-10-2014 (Will not be used as Risk Shelter because it is located in the South end of the County)
				TOTALS FOR SANTA ROSA COUNTY			**12,067**	**264,956**	**0**	**4,766**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**12,067**	**5,875**	**6,192**	**264,956**			**147,456**	**SURPLUS**			

2016 Statewide Emergency Shelter Plan

SANTA ROSA

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bennet C. Russel ES	1 A/C Corr & Café	3740 Excalibur Way	Milton	32583	N	P	236	14,196				2015: 600KW generator
Thomas L. Sims Middle School	1	5500 Education Drive	Pace	32571	R	P	704	42,262		351		2015: 600KW gen & 80KW Gen
Milton Comm. Ctr		5629 Byron	Milton	32570	N	P	0	0		24		Used as a dual shelter, 24 spaces SpNS / 280 KW Gen
	SpNS Shelter Capacity In Spaces (meets ARC 4496)	**SpNS Shelter Demand In Spaces**	**Surplus/ Deficit In Spaces**	**SpNS Shelter Capacity (ft2)**			**Surplus/ Deficit (ft2)**	**RESULT**				
Storm Category 4/5	**940**	**150**	**790**	**56,400**			**47,400**	**SURPLUS**				

SARASOTA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Alta Vista ES		1050 South Euclid Avenue	Sarasota	34237			0	0	0	0	0	
ARC Chapter		2001 Cantu Court	Sarasota	34232	R		0	0	200	200	L	for sheltering responders
Ashton Elementary School	1	5101 Aston Road	Sarasota	34223	R	G	0	0		966	L	per report open span/ unreinf. 2002/2004 reroof designed for 130mph
Ashton Elementary School	2	5101 Aston Road	Sarasota	34223	R	G	0	0		622	L	no report on this bldg circa 2003
Atwater Elementary School	1 Main	4701 Huntsville Ave	North Port	34288	N	G	0	0		3,434	L	Built 2008 (FISH)
Bishop Niven Acadamey / St Martha Catholic School	Dome A	4380 Fruitville Road	Sarasota	34237	N/R		415	8,300		415	F-PDM	confirmed 2005
Bishop Niven Acadamey / St Martha Catholic School	Dome B	4380 Fruitville Road	Sarasota	34237	N/R		524	10,480		524	F-PDM	confirmed 2006
Bishop Niven Acadamey / St Martha Catholic School	Dome E	4380 Fruitville Road	Sarasota	34237	N/R		172	3,440		172	F-PDM	confirmed 2007
Bishop Niven Acadamey / St Martha Catholic School	Dome F	4380 Fruitville Road	Sarasota	34237	N/R		302	6,040		302	F-PDM	confirmed 2008
Booker Sr High School	3 Dining & 4 Classroom	3201 N Orange Avenue	Sarasota	34234	N	G	2,400	48,000	2,400	2,400	L	Built 2011 (EHPA)
Booker Middle School	6	2250 Myrtle Street	Sarasota	34234	R	G	475	7,180		0	S-1435A-2003	
Booker Middle School	7	2250 Myrtle Street	Sarasota	34234	R	G	355	6,130		355	S-1435A-2003	circa 2002
Booker Middle School	14	2250 Myrtle Street	Sarasota	34234	N	G	1,062	21,240		1,062		Built 2004
Brentwood Elementary School	2	2500 Vinson Ave	Sarasota		N	G	0	0		1,125	L	1.1' SLOSH
Brookside Middle School	5	3636 S Shade Avenue	Sarasota	34293		G	435	7,913	0	435		circa 2003
Brookside Middle School	9	3636 S Shade Avenue	Sarasota	34293		G	351	7,020		351		
Brookside Middle School	3 north	3636 S Shade Avenue	Sarasota	34293		G	0	0		0		
Brookside Middle School	3 south	3636 S Shade Avenue	Sarasota	34293		G	0	0	462	462		no information
Brookside Middle School	6(Gym)	3636 S Shade Avenue	Sarasota	34293		G, A	0	0		0		locker rooms used for pets
Brookside Middle School (2000 construction)	4	3636 S Shade Avenue	Sarasota	34293	R	G	1,076	23,033		1,076	L	
Cranberry Elementary	1	2775 Shallimar Terrace	North Port	34286	N	P	0	0		1,047	S, F	SpNS see below, 10' SLOSH
Emma Booker Elementary School	1, 3, 4, 5, 6, 8	2350 MLK Jr. Way	Sarasota	34234		G	0	0	0	0		
Fruitville Elementary School	9	601 Honore Avenue	Sarasota	34232			0	0	381	381		bldg 9 2004
Garden Elementary School	1	700 Center Road	Venice	34293	R	G	0	0	750	0	L	questions on unreinforced walls and open spans 9.1' SLOSH
Garden Elementary School	4 (Café)	700 Center Road	Venice	34293	R	G	0	0		0		9.1' SLOSH
Glennallen Elementary	7	7050 Glenallen Boulevard	North Port	34287	R	G	0	0		540		9.1' SLOSH
Glennallen Elementary	8	7050 Glenallen Boulevard	North Port	34287	R	G	0	0		461		9.1' SLOSH
Glennallen Elementary	#1, Sec 400	7050 Glenallen Boulevard	North Port	34287	R	G	0	0		0	HMGP	Researching Retro Records 9.1' SLOSH
Glennallen Elementary	#1, Sec 300	7050 Glenallen Boulevard	North Port	34287	R	G	0	0		0	HMGP	Researching Retro Records 9.1' SLOSH
Gocio Elementary School	3	3450 Gocio Road	Sarasota	34235	R	G	0	0		0		
Gocio Elementary School	5	3450 Gocio Road	Sarasota	34235	R	G	0	0		0		
Gulf Gate Elementary School	1	6500 Lockwood Ridge Rd	Sarasota	34231	N	G	0	0		2,933	L	5.5' SLOSH
Heron Creek Middle School	3	6501 W. Price	North Port	34287	N	G	0	0		1,353		9.2' SLOSH
Heron Creek Middle School	4	6501 W. Price	North Port	34287	N	G	0	0		1,243		9.2' SLOSH
Heron Creek Middle School	5	6501 W. Price	North Port	34287	N	G	0	0		469		9.2' SLOSH Pet shelter only
Heron Creek Middle School	6	6501 W. Price	North Port	34287	N	G, A	0	0		0		9.2' SLOSH
Heron Creek Middle School	7	6501 W. Price	North Port	34287	N	G	0	0		0		9.2' SLOSH
Heron Creek Middle School	10	6501 W. Price	North Port	34287	N	G	0	0		482		9.2' SLOSH
Lakeview Elementary School	#1, Sec 300	7299 Proctor Road	Sarasota	34241	R	G				0	s-1543	Window protection compromised
Lakeview Elementary School	#1, Sec 400	7299 Proctor Road	Sarasota	34241	R	G				0	s-1543	Window protection compromised
Lakeview Elementary School	#1, Sec 500	7299 Proctor Road	Sarasota	34241	R	G				0	s-1543	Window protection compromised
Lamarque Elementary School	1	3415 Lamarque Avenue	North Port	34286	N	P	0	0		1,275	L	SpNS see below, 9.5' SLOSH

SARASOTA

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Laurel Middle School	4	1900 East Laurel Road	Laurel	34275	R	G	0	0	1,202	0		17.7' SLOSH
Laurel Middle School	6	1900 East Laurel Road	Laurel	34275	R	G	0	0		0		17.7' SLOSH
Laurel Middle School	3 (Café)	1900 East Laurel Road	Laurel	34275	R	G	0	0		0		17.7' SLOSH
Laurel Middle School	5(Gym)	1900 East Laurel Road	Laurel	34275	R	G	0	0		0		17.7' SLOSH
McIntosh Middle School		701 S McIntosh Road	Sarasota	34232			0	0	500			5.5' SLOSH
North Porth High School	2	6400 West Price Blvd	North Port	34287	N	G	0	0		0		8.7' SLOSH
North Porth High School	3	6400 West Price Blvd	North Port	34287	N	G, A	0	0		1,009		8.7' SLOSH
North Porth High School	4	6400 West Price Blvd	North Port	34287	N	G	0	0		746	L	8.7' SLOSH
North Porth High School	5	6400 West Price Blvd	North Port	34287	N	G	0	0		769		8.7' SLOSH
North Porth High School	6	6400 West Price Blvd	North Port	34287	N	G	0	0		0	L	8.7' SLOSH
North Porth High School	7	6400 West Price Blvd	North Port	34287	N	G	0	0		779		t 8.7' SLOSH
North Porth High School	8	6400 West Price Blvd	North Port	34287	N	G	0	0		869		8.7' SLOSH
Oak Park School	4	7285 Proctor Road	Sarasota	34241	R	P	0	0		0	HMGP	Post Storm only due to roof
Oak Park School	2A	7285 Proctor Road	Sarasota	34241	R	P	0	0	1,597	0	HMGP	Post Storm only due to roof
Oak Park School	2B	7285 Proctor Road	Sarasota	34241	R	P	0	0		0	HMGP	Post Storm only due to roof
Oak Park School	3A	7285 Proctor Road	Sarasota	34241	R	P	0	0		0	HMGP	Post Storm only due to roof
Oak Park School	3B	7285 Proctor Road	Sarasota	34241	R	P	0	0		0	HMGP	Post Storm only due to roof
Philippi Shores	2	4747 S. Tamiami Trail	Sarasota	34231	N	G	0	0		1,835	L	1.5' SLOSH 2005
Phoenix School	1	1085 S. Shade Ave	Sarasota	34237	N		0	0	664	664		2.7' SLOSH Responders only. No Kitchen
Pineview School	1	501 Old Venice Road	Osprey	34229	R	G	0	0		330	S-1543	5.1' SLOSH
Pineview School	2	501 Old Venice Road	Osprey	34229	R	G	0	0		269	S-1543	5.1' SLOSH
Pineview School	3	501 Old Venice Road	Osprey	34229	R	G	0	0			F	5.1' SLOSH
Pineview School	4	501 Old Venice Road	Osprey	34229	R	G	0	0			F	5.1' SLOSH
Pineview School	5	501 Old Venice Road	Osprey	34229	R	G, A	0	0		0		5.1' SLOSH Pets only
Pineview School	8	501 Old Venice Road	Osprey	34229	R	G	0	0			F	5.1' SLOSH
Pineview School	10	501 Old Venice Road	Osprey	34229	R	G	0	0			F	5.1' SLOSH
Pineview School	11	501 Old Venice Road	Osprey	34229	R	G	0	0		331	S-1543	5.1' SLOSH
Pineview School	12	501 Old Venice Road	Osprey	34229	R	G	0	0			F	5.1' SLOSH
Pineview School	16	501 Old Venice Road	Osprey	34229	N	G	0	0		933		5.1' SLOSH
Riverview High School	2, 3, 5, 6	One Ram Way	Sarasota	34231	N	G, A				2,574	L	8.5' SLOSH
Sarasota Technical Institute	3-Voc & 4-Voc	4748 Beneva Road	Sarasota	34233					300			2011 FDOE Funds spent, FISH
Sarasota High School	13	1000 South School Ave	Sarasota	34237	N/R	G	0	0		2,387	HMGP	10.7' SLOSH
Sarasota High School	14	1000 South School Ave	Sarasota	34237	N/R	G	0	0		2,272	HMGP	10.7' SLOSH
Sarasota Middle School	4	4826 Ashton Road	Sarasota	34233	R	G	0	0		0	S-1543	Window protection compromised
Sarasota Middle School	6	4826 Ashton Road	Sarasota	34233	R	G	0	0		0	S-1543	Window protection compromised
Sarasota Middle School	7	4826 Ashton Road	Sarasota	34233	R	G	0	0		0	S-1543	Window protection compromised
Sarasota Middle School	8	4826 Ashton Road	Sarasota	34233			0	0		0		Window protection compromised
Sarasota Middle School	9	4826 Ashton Road	Sarasota	34233			0	0		0		Window protection compromised
Sarasota Middle School	10 & 11	4826 Ashton Road	Sarasota	34233			0	0		0		Window protection compromised
Sarasota Middle School	3 & 5	4826 Ashton Road	Sarasota	34233			0	0		0		Window protection compromised
Southside Elementary	4	1901 Webber	Sarasota	34239	N	G	0	0		1,346	L	2005, 3.6' SLOSH
Suncoast Polytechnical High School	1 Classroom	4650 Beneva Road	Sarasota	34233	N	G	881	17,628		1,134		Built 2007 (FISH)
Tatum Ridge Elementary	1	4100 Tatum Road	Sarasota	34240	N	P	0	0		1,091	I	SpNS see below
Taylor Ranch Elementary School	1	2500 Taylor Ranch Road	Venice	34293	R	G	0	0		0	F	8' SLOSH
Taylor Ranch Elementary School	3	2500 Taylor Ranch Road	Venice	34293			0	0		0		8' SLOSH
Taylor Ranch Elementary School	4	2500 Taylor Ranch Road	Venice	34293	R	G	0	0			F	8' SLOSH
Taylor Ranch Elementary School	5	2500 Taylor Ranch Road	Venice	34293	R	G	0	0		249	S-1543	8' SLOSH
Taylor Ranch Elementary School	6	2500 Taylor Ranch Road	Venice	34293	R	G	0	0		523	S-1543	8' SLOSH
Taylor Ranch Elementary School	8	2500 Taylor Ranch Road	Venice	34293		G	0	0	476	476		8' SLOSH
Toledo Blade ES	1	1201 Geranium Avenue	North Port	34287	R	G	0	0		308	S-1523	6.5' SLOSH
Toledo Blade ES	3	1201 Geranium Avenue	North Port	34287	R	G	0	0		235	S-1523	6.5' SLOSH

SARASOTA

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Toledo Blade ES	4	1201 Geranium Avenue	North Port	34287	R	G	0	0		293	S-1523	6.5' SLOSH
Toledo Blade ES	5	1201 Geranium Avenue	North Port	34287	R	G	0	0		288	S-1523	6.5' SLOSH
Toledo Blade ES	6	1201 Geranium Avenue	North Port	34287	R	G	0	0		519	S-1523	6.5' SLOSH
Toledo Blade ES	10	1201 Geranium Avenue	North Port	34287	R	G	0	0		296	S-1523	6.5' SLOSH
Tuttle Elementary School	3 Cafeteria	925 N Brink Avenue	Sarasota	34237								Built 1998. 2000 LRDM
Tuttle Elementary School	2 Classroom (1st & 2nd Floor)	925 N Brink Avenue	Sarasota	34237	N / R	G	1,278	25,561		1,883	L	
Venice Area Middle School	1 & 6	1900 Center Road	Venice	34293			0	0	600	0		16.8' SLOSH
Venice Community Center	1	326 Nokomis Ave South	Venice		R	G	0	0		922	L	per county, 6.7' SLOSH
Venice Elementary - 8/1/05	1	150 Miami Ave East	Venice	34285	N	G	0	0		0	L	not an EHPA 2005,12' SLOSH
Wilkinson Elementary School 8/1/05	6	3400 Wilkinson Road	Sarasota	34231	N	G	822	20,551		765		2005 - Planned for use as Alt EOC
Woodlands Middle School	3 Dining	2700 Panacea Blvd	North Port	34289	N	G	653	13,060		653	L	completed 2009, 8.2' SLOSH
Woodlands Middle School	4 Classroom	2700 Panacea Blvd	North Port	34289	N	G	1,125	22,500		1,125	L	completed 2009
Woodlands Middle School	5 Classroom	2700 Panacea Blvd	North Port	34289	N	G, A	476	9,520		476	L	completed 2009
						TOTALS FOR SARASOTA COUNTY	**12,802**	**257,596**	**9,532**	**52,434**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**12,802**	**29,826**	**-17,024**	**257,596**			**-338,924**	**DEFICIT**			

Special Needs Storm Shelters

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Oak Park School		7285 Proctor Road	Sarasota	34241	R	P	0	0		525		Built 1991. Post storm use only due to long span roof.
Cranberry Elementary	1	2775 Shallimar Terrace	North Port	34286	N	P				1,047	L	2005 Co. provided capacity, 10' SLOSH
Tatum Ridge ES	1	4100 Tatum Ridge RD	Sarasota	34240	N	P	1,091	65,460		1,091		county provided capacity- Completed Sept 2006
LaMarque Elementary (Elementary H)	1	3415 Lamarque Ave	North Port	34286	N	P	0	0		1,275		county provided capacity- Completed Sept 2006, surge issues

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,091**	**2,971**	**-1,880**	**65,460**			**-112,800**	**DEFICIT**			

SEMINOLE

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Bentley ES	1 Main / Dining (1st Floor)	2190 Oregon Avenue	Sanford	32771	R	G, P, A	172	3,435			S-1435A-2003	SpNS see below
Bentley Elementary	1 Main / Dining (2nd Floor)	2190 Oregon Ave	Sanford	32771	R	P	1,019	20,380			S	Completed 2015. 15-SR-94-06-69-01-464
Bentley Elementary	3 Classroom	2190 Oregon Ave	Sanford	32771	R	G	575	11,500			S	Completed 2015. 15-SR-94-06-69-01-464
Chiles MS	1 Admin / Café	1240 Sanctuary Drive	Oviedo	32766	N	G	206	4,119		0		2010 LRDM
Chiles MS	5 Gym / Corridor	1240 Sanctuary Drive	Oviedo	32766	R	G	570	11,400		285	S	Completed 2014 13-SR-AA-06-69-01-312:
Crystal Lakes ES	1	231 Rinehart Road	Lake Mary	32746	N	G	500	10,000		500	L	
English Estates Elementary School	100 Classroom	299 Oxford Road	Fern Park	32370	R	G	1,000	17,300		1,000	HMGP	
English Estates Elementary School	600 Dining / Classroom	299 Oxford Road	Fern Park	32370	N	G	334	6,677		0		2010 LRDM
Geneva Elementary School	4 Dining	275 1st Street	Geneva	32372	R	G	193	2,900		275	HMGP	LRDM confirmed
Hagerty High School	4 Multipurpose / Gym	3225 Lockwood Blvd	Oviedo	32765	R	G	831	16,620			S	2015_05-27 County reported that this building has been retrofitted
Hagerty High School	5 Cafeteria	3225 Lockwood Blvd	Oviedo	32765	R	G	280	5,600			S	Completed 2015. 15-SR-94-06-69-01-464
Hagerty High School	6 Classroom	3225 Lockwood Blvd.	Oviedo	32765	R	G	940	18,800		470	S	Completed 2014 13-SR-AA-06-69-01-312:
Hagerty High School	7 Classroom	3225 Lockwood Blvd.	Oviedo	32765	R	G	876	17,520		438	S	Completed 2014 13-SR-AA-06-69-01-312:
Hagerty High School	8 Gymnasium	3225 Lockwood Blvd.	Oviedo	32765	R	G	776	15,520		388	S	Completed 2014 13-SR-AA-06-69-01-312:
Hagerty High School	9 Auditorium, Music	3225 Lockwood Blvd.	Oviedo	32765	R	G	794	15,880		397	S	Completed 2014 13-SR-AA-06-69-01-312:
Highlands Elementary School	1 Classroom-1st floor (excluding SpNS area)	1600 Shepard Road	Winter Springs	32708	R	G, P	743	14,852		212	S-1118A	LRDM confirmed
Highlands Elementary	1 Classroom (2nd Floor)	1600 Sheppard Rd	Winter Springs	32708	R	G	373	7,460			S	Completed 2015. 15-SR-94-06-69-01-464
John Evans Elementary	1 Main (1st Floor)	100 East Chapman Road	Oviedo	32765	R	G	838	20,960		424	HMGP	2010 LRDM
John Evans Elementary	1 Cafeteria / Clsrm (2nd Floor)	100 East Chapman Road	Oviedo	32765	R	G	1,038	20,760			S	Completed 2015. 15-SR-94-06-69-01-464
Lake Brantley High School	6 Clasroom (1st Floor)	991 Sand Lake Road	Altamonte Springs	32714	R	G	667	13,414		666	S-1588-2006	
Lake Brantley High School	7 Classroom (1st Floor)	991 Sand Lake Road	Altamonte Springs	32714	R	G	741	18,534		666	S-1588-2006	
Lake Brantley High School	8 Classroom (1st Floor)	991 Sand Lake Road	Altamonte Springs	32714	R	G	667	16,034		668	S-1588-2006	Completed 8 / 07
Lake Mary High School	Gym / Café / 1st floor hallways	655 Longwood / Lake Mary Rd	Lake Mary	32746	R	G	1,810	45,239		1,200	S-1118A	LRDM confirmed-first floor
Lawton Chiles MSI	4 (Music/gym) / 5 (gym)	3225 Lockwood Blvd	Oviedo	32765	R	G	750	15,286		750	S-1523	LRDM confirmed
Layer ES	1 (excluding Café)	SR 419	Winter Springs	32708	R	G	2,018	40,368		100	S-1588-2006	SpNS see below-Completed 8/07
Lyman Sr High School	7 Cafeteria / Clsrm (1st Floor)	865 CR 427 South	Longwood	32750	R	G, A	993	14,891		1,500	HMGP	LRDM confirmed

SEMINOLE

Lyman Sr High School	7 Cafeteria / Clsrm (2nd Floor)	865 Ronald Regan Blvd	Longwood	32750	R	G					S	Completed 2015. 15-SR-94-06-69-01-464
Lyman Sr High School	8A Auditorium	865 CR 427 South	Longwood	32750	R	G, A	286	5,728				2010 LRDM
Lyman Sr High School	8B Classroom	865 CR 427 South	Longwood	32750	R	G, A	261	5,210				2010 LRDM
Markham Woods MS	2 Classroom	6003 Markham Woods Rd	Lake Mary	32746	R	G	669	13,380		335	S	Completed 2014 13-SR-AA-06-69-01-312:
Markham Woods MS	3 Classroom	6003 Markham Woods Rd	Lake Mary	32746	R	G	709	14,180		355	S	Completed 2014 13-SR-AA-06-69-01-312:
Markham Woods MS	4 Classroom	6003 Markham Woods Rd	Lake Mary	32746	R	G	644	12,880		322	S	Completed 2014 13-SR-AA-06-69-01-312:
Markham Woods MS	5 Gymnasium	6003 Markham Woods Rd	Lake Mary	32746	R	G	557	11,140		279	S	Completed 2014 13-SR-AA-06-69-01-312:
Markham Woods MS	6 Cafeteria	6003 Markham Woods Rd	Lake Mary	32746	R	G	206	4,119				2010 LRDM (EHPA)
Midway ES (NEW)	1 Classroom	2251 Jitway	Sanford	32771	N	G	500	10,000		500	L	online 2010
Millennium Middle School	2 Auditorium	21 Lake View Dr	Sanford	32773	R	G	701	14,020			S	Completed 2015. 15-SR-94-06-69-01-464
Millennium Middle School	3 Café	21 Lakeview Drive	Sanford	32773	R	G	219	4,372		650	HMGP	ARC 4496 form
Millennium Middle School	5 Clsrms & Hall (1st flr)	21 Lakeview Drive	Sanford	32773	R	G	1,234	24,674			HMGP	ARC 4496 form
Millennium Middle School	5 Clsrm & Hall (2nd Floor)	21 Lake View Dr	Sanford	32773	R	G	884	17,680			S	Completed 2015. 15-SR-94-06-69-01-464
Oviedo HS	8 Classroom	601 King St.	Oviedo	32765	R	G	2,005	40,100		1,003	S-SR-312/2013	Completed 2014 13-SR-AA-06-69-01-312:
Walker ES	1 Café (1st floor)	3101 Snowhill	Chuluota	32766	R	G	375	7,500		400	S-1588-2006	Completed 8/07
Winter Springs High School	4 Classroom (1st Floor)	130 Tuskawilla Road	Winter Springs	32708	R	G	719	17,964		440	S-1588-2006	Completed 8/07
Winter Springs High School	5 Classroom (1st Floor)	130 Tuskawilla Road	Winter Springs	32708	R	G	565	8,331			S-1467-2004	
Winter Springs High School	6 Classroom (1st Floor)	130 Tuskawilla Road	Winter Springs	32708	R	G	522	7,834			S-1467-2004	
Winter Springs High School	7 Classroom (1st Floor)	130 Tuskawilla Road	Winter Springs	32708	R	G	367	5,510			S-1467-2004	
						TOTALS FOR SEMINOLE COUNTY	**31,126**	**630,071**	**0**	**14,221**		

	Shelter Capacity In People	Shelter Demand In People	Surplus / Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**31,126**	**11,445**	**19,681**	**630,071**			**401,171**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Bentley ES	1 Dining (1st Floor)	2190 Oregon Avenue	Sanford	32771	R	P, A	100	8,479		100	S-1435A-2003	DOH notes 1000KW Gen supports HVAC
Highlands ES	1 (1st floor)	1600 Shepard Road	Winter Springs	32708	R	P	100	8,479		100	S-1118A	DOH notes 1000KW Gen supports HVAC
Layer ES	Café	SR 419	Winter Springs	32708	R	P	100	7,500		100		DOH notes 1000KW Gen supports HVAC

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**300**	**750**	**-450**	**18,000**			**-27,000**	**DEFICIT**			

SUMTER

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Agriculture Center		7620 SR 471	Bushnell	33513		G, A	0	0	600			Provided by County
Bushnell Community Center		407 East Belt Avenue	Bushnell	33513		G	0	0	42			
Center Hill Community Center		74 South Virginia Avenue	Center Hill	33514		G		0	125			
Bushnell Elementary School		218 W Flannery	Bushnell	33513			0	0	100			
Lake Panasoffkee Elementary School		790 CR 482 North	Lk Panasoffkee	33538			0	0	100			
South Sumter Sr High School	36	7060 N Main St/SR 475	Bushnell	33513		G, A	0	0	538			
South Sumter Sr High School	44 Dining	7060 N Main St/SR 475	Bushnell	33513	N	G, A	336	6,717	538			2012 LRDM
South Sumter Middle School	23 & 24	733 NW 10th Avenue	Webster	33597			0	0	250			
VFW		CR 476B	Nobleton	34661			0	0	100			
Villages Middle School		450 Village Campus / CR 466	Villages	32162	N	G	200	4,000	0	200	L	
Villages High School		251 Buffalo Trail	The Villages	32162		G			250			
Webster Elementary School	14 A & B Cafeteria	349 South Market Blvd	Webster	33597	R	G	0	0	138		HMGP	Built section B=1995 (Questions on 54 ft. roof span) / section A=2005.
Wildwood Community Center	1	700 Huey Street	Wildwood	34785	N	G	166	2,490	400	477	S-1395B	circa 2002
Wildwood Elementary School	18 Cafeteria	300 East Huey Street	Wildwood	34785	R	G	178	3,059	0	178	HMGP	LRDM confirmed / per report 3,565 sf
Wildwood High School	4 Classroom	700 Huey Street	Wildwood	34785	N	G	31	620	450			2012 LRDM
Wildwood Middle School	15 Classroom	200 Cleveland Street	Wildwood	34785			0	0	250			
				TOTALS FOR SUMTER COUNTY			**911**	**16,886**	**3,881**	**855**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**911**	**9,786**	**-8,875**	**16,886**			**-178,834**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
TBD												

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**32**	**-32**	**0**			**-1,920**	**DEFICIT**			

SUWANNEE

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Assembly of God Church		26471 SR 247	Branford	32008			0	0				
Branford Community Center		Jenkins Ave (Hatch Park)	Branford	32008			0	0				
Branford Elementary School	1	26801 SR 247	Branford	32008	N	G	1,709	34,182		287		Whole school EHPA per school-capacity per classrms / Din / Hall
Branford High School		Governor's Street	Branford	32008			0	0		215		
Church of Jesus Christ of Latter Day Saints		1310 Irvin Avenue SW	Live Oak	32060		G	0	0				
First Advent Christian Church		699 Pinewood Way	Live Oak	32060			0	0				
First Baptist Church of Branford		503 Suwannee Avenue	Branford	32008			0	0				
First Baptist Church of Live Oak		401 Howard Street West	Live Oak	32060			0	0				
First Presbyterian Church		421 White Avenue	Live Oak	32060			0	0				
First United Methodist Church		311 Ohio Avenue South	Live Oak	32060			0	0				
Friendship Baptist Church		14364 140th Street	Live Oak	32060		G	0	0		75		
Live Oak Church of God		9828 US 129	Live Oak	32060			0	0				
Mt. Olive Baptist Church		5314 98th Terrace	Wellborn	32094		G	0	0				
North Florida Christian Center		21670 West Shekinah Place	BObrien	32071			0	0				
San Juan Mission Church		304 Plant Avenue SE	Branford	32008			0	0				
St. Francis Xavier Church		928 Howard Street East	Live Oak	32060		G	0	0				
St. Luke Episcopal Church		1391 Eleventh Street SW	Live Oak	32060			0	0				
Suwannee County Colesium	County Ext. Bldg.	1302 11th Street SW	Live Oak	32064		G	0	0		110		
Suwannee ES [0060]	1	1748 South Ohio Ave	Live Oak	32060	N	G	1,775	35,509		400		Whole school EHPA per school-capacity per classrms / Din / Hall
Suwannee High School (Suwannee Sr High) [0043]		1314 Pine Ave SW	Live Oak	32064		G	0	0		75		
Suwannee Middle School [0051]	12 ESE / Classroom	1730 Walker Street SW	Live Oak	32064		G	0	0		130		
Suwannee Primary School (Suw Elem East) [0011]	361 / 001	1625 Walker Ave SW	Live Oak	32064	R	G, P	0	0		180	L, S, F	
Suwannee-Hamilton Technical Center [0012]		415 Pinewood Dr SW	Live Oak	32064		G	0	0		60		
						TOTALS FOR SUWANNEE COUNTY	**3,484**	**69,691**	**0**	**1,532**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**3,484**	**3,872**	**-388**	**69,691**			**-7,749**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Suwannee Intermediate School (Suw.ESWest) [0042]	Caf & Multi-Purp.	1419 Walker Ave. SW	Live Oak	32064	R	P	50	3,000		50		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**50**	**92**	**-42**	**3,000**			**-2,520**	**DEFICIT**			

TAYLOR

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Elks Lodge		305 Puckett Road	Perry	32348			0	0	100			
Fellowship Baptist Church		1st Avenue	Steinhatchee	32359			0	0	70			in CAT 3 surge zone
Forest Capital Hall		203 Forest Park Dr	Perry	32349			0	0				
Mormon Church		Woods Creek Road	Perry	32347			0	0	40			
Perry Primary School		400 North Clark Street	Perry	32347			0	0	275			
Steinhatchee School		1209 1st Avenue SE	Steinhatchee	32359			0	0	70			in CAT 2 surge zone
Taylor County ES	1 Admin	1600 East Green St	Perry	32347	R	G	250	5,000			S-1496-2010	
Taylor County ES	2 Media	1600 East Green St	Perry	32347	R	G	276	5,520			S-1496-2011	
Taylor County ES	3 Classroom	1600 East Green St	Perry	32347	N	G	796	13,310		796	L	EHPA
Taylor County ES	4 Classroom	1600 East Green St	Perry	32347	N	G	380	5,701		401	L	EHPA
Taylor County ES	5 Classroom	1600 East Green St	Perry	32347	N	G	438	6,840		438	L	EHPA
Taylor County ES	6 Classroom	1600 East Green St	Perry	32347	N	G	810	12,143		875	L	EHPA
Taylor County ES	7 - Cafetorium	1600 East Green St	Perry	32347	R	G	467	9,340			S-1496-2009	
Taylor County High School	A - Admin / Classroom	900 N Johnson-Stripping Rd	Perry	32347	N	G	2,530	50,600			S 12/13 2624	Built 1991. 2001 LRDM. Completed 2015
Taylor County High School	B - Food Service	900 N Johnson-Stripping Rd	Perry	32347	N	G	268	5,360			S 12/13 2624	Built 1991. 2001 LRDM. Completed 2015
Taylor County High School	C - Music	900 N Johnson-Stripping Rd	Perry	32347	R	G	209	4,180			S-1496-2009	Built 1991. 2001 LRDM.
Taylor County High School	D - JROTC Classroom	900 N Johnson-Stripping Rd	Perry	32347	N	G	144	2,880			S 12/13 2624	Built 1991. 2001 LRDM. Completed 2015
Taylor County Middle School		601 E. Lafayette Street	Perry	32347					265			
Taylor Technical Institute		3233 S US Highway 19	Perry	32348			0	0	265			
Covenant Christian Fellowship Church		6050 Pucket Rd	Perry	32348		G	0	0	265			in CAT 5 surge zone
				TOTALS FOR TAYLOR COUNTY			**6,568**	**120,874**	**1,350**	**2,511**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**6,568**	**1,713**	**4,855**	**120,874**			**86,614**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Uses Regional Shelter							0	0				

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**63**	**-63**	**0**			**-3,780**	**DEFICIT**			

UNION

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet -Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Lake Bultler ES	20 Classroom	800 SW 6th St	Lake Butler	32054	R	G	144	2,880	0		S	FY 10/11 1617 Completed 2 / 2014
Lake Bultler ES	21 Classroom	800 SW 6th St	Lake Butler	32054	R	G	144	2,880	0		S	FY 10/11 1617 Completed 2 / 2014
Lake Bultler ES	22 Classroom	800 SW 6th St	Lake Butler	32054	R	G	144	2,880	0		S	FY 10/11 1617 Completed 2 / 2014
Lake Butler Agricultural Center	Whole Bldg	Hwy 231 South	Lake Butler	32054			0	0	0			
Lake Butler Middle School	3, 5, 6	120 SW 6th St	Lake Butler	32054	R	G	939	23,465	150	424	HMGP	funded
Lake Butler Middle School	8-Gym	801 S Lake Ave	Lake Butler	32054			0	0	50			
NFRC-DOC Training Building		Hwy 238 West	Providence	32083			0	0	30			
Providence Community Center		Hwy 121 North	Raiford	32054			0	0	75			
Raiford Community Center		Hwy 121/16	Raiford	32054			0	0	0			
RMC-DOC	Training Bldg	15540 SW 158th LN	Lake Butler	32054		G	0	0	75		S	DOC Families only
UCI-DOC	Training Bldg	Hwy 121 South	Worthington	32697			0	0	75		S	DOC Families only
Union County High School	21	1000 S Lake Ave	Lake Butler	32054	N	G	169	3,386	0	1,000	L, S	
Union County High School	23	850 S Lake Ave	Lake Butler	32054	N	G	143	2,854	0	200		
Union County High School	24-Gym / Physical Ed	150 SW 6th St	Lake Butler	32054	N	P		0	0		L, S	SpNS only
						TOTALS FOR UNION COUNTY	**1,683**	**38,345**	**455**	**1,624**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,683**	**708**	**975**	**38,345**			**24,185**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Union County High School	24-Gym / Physical Ed	150 SW 6th Street	Lake Butler	32054	N	P	33	2,010		45		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**33**	**43**	**-10**	**1,980**			**-600**	**DEFICIT**			

VOLUSIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet -Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Allen Green Civic Center	Entire Center						600	12,000		600	EMPA	funded 600
Atlantic High School	1-Café	1250 Reed Canal Road	Port Orange	32129			0	0	0		L	unshuttered windows.
Atlantic High School	3-ESE Clinic	1250 Reed Canal Road	Port Orange	32129	R	P	0	0	0	0		SpNS See below,
Atlantic High School	8-Gym	1250 Reed Canal Road	Port Orange	32129			0	0			L	unshuttered windows.
Blue Lake Elementary School		282 North Blue Lake Ave	DeLand	32724			0	0	0			Removed 2013
Campbell Middle School	2-Café	625 S. Keech St.	Daytona Beach	32124	N	G	0	0	0	250	L	342 persons, EXITING storm only
Campbell Middle School	3-Classroom	625 S. Keech St.	Daytona Beach	32124	R	G	0	0			L	544 persons, EXITING storm only
Campbell Middle School	4-Classroom	625 S. Keech St.	Daytona Beach	32124	R	G	0	0			L	573 persons, EXITING storm only
Campbell Middle School	5-ESE CR	625 S. Keech St.	Daytona Beach	32124	R	G	0	0			L	144 persons, EXITING storm only
Campbell Middle School	6-Classroom	625 S. Keech St.	Daytona Beach	32124	R	G	0	0			L	544 persons, EXITING storm only
Campbell Middle School	9-Gym	625 S. Keech St.	Daytona Beach	32124	R	G	0	0			L	433 persons, EXITING storm only
Champion Elementary School (K-5)	5-café	921 Tournament Drive,	Daytona Beach	32124	N	G	163	4,083		150	L	EHPA per county, FISH Data
Citrus Grove Elementary (K-5)	3-café	729 Hazen Road,	DeLand	32720	N	G	161	4,032		150	L	EHPA per county, FISH Data
Creekside Middle School	3	6801 Airport Road	Port Orange	32171		G	396	7,911				Updated FISH Data
Creekside Middle School	4	6801 Airport Road	Port Orange	32171		G	408	8,151				Updated FISH Data
Creekside Middle School	6	6801 Airport Road	Port Orange	32171		G	408	8,161				Updated FISH Data
Creekside Middle School	2-Café	6801 Airport Road	Port Orange	32171	N	P	0	0		125	L, S	See SpNS
Creekside Middle School	9-Gym	6801 Airport Road	Port Orange	32171		G, A	449	8,985				Updated FISH Data
Cypress Creek Elementary School	5-café	6100 S. Williamson Blvd	Port Orange	32127	N	G	0	0		150	L	300 persons, EXITING storm only
Daytona State College (formerly: Daytona Beach Community College East)	16	1200 West Intl Speedway	Daytona Beach	32114	R	G	322	6,440	0	322	HMGP	
Daytona State College (formerly: Daytona Beach Community College West)	5	1155 County Road 4139	DeLand	32724	R	G	145	2,900	0	145	HMGP	
DeBary Elementary School	1	88 W Highbanks Road	DeBary	32713	R	G	590	8,850	0	722	L	Updated FISH Data
DeBary Elementary School	2 Classroom	88 W Highbanks Road	DeBary	32713			0	0				
DeBary Elementary School	4 Café	88 W Highbanks Road	DeBary	32713	N	G	165	4,126		150		EHPA updated FISH
DeLand High School	1 - Auditorium & Classrooms	800 N. Hill Ave DeLand	DeLand	32724	R	G	0	0				
DeLand High School	1a	800 N. Hill Ave DeLand	DeLand	32724	N	G	800	12,895			L	
DeLand High School	2 Gym	800 N. Hill Ave DeLand	DeLand	32724			0	0			L	
DeLand High School	5 Café	800 N. Hill Ave DeLand	DeLand	32724	R	G	400	7,455		400	L	shuttered per county, updated FISH
DeLand High School	7	800 N. Hill Ave DeLand	DeLand	32724			0	0			L	
DeLand High School	14 Classroom	800 N. Hill Ave DeLand	DeLand	32724	R	G	574	11,482			L	shuttered per county, updated FISH
DeLand High School	15 Classroom	800 N. Hill Ave DeLand	DeLand	32724	R	G	581	11,627			L	shuttered per county, updated FISH
DeLand High School	17 Classroom	800 N. Hill Ave DeLand	DeLand	32724			0	0			L	
DeLand High School (2005)	39	800 N. Hill Ave DeLand	DeLand	32724	N	G	228	4,555				EHPA-2005
DeLand Middle School	4	1400 S Aquarius Avenue	DeLand	32724			635	9,523	0	250	L	
DeLand Middle School	13	1400 S Aquarius Avenue	DeLand	32724			0	0				
DeLand Middle School	15	1400 S Aquarius Avenue	DeLand	32724			0	0				
DeLand Middle School	16 Classroom	1400 S Aquarius Avenue	DeLand	32724			0	0				
Deltona High School	15-Classroom portion	100 Wolf Pack Run	Deltona	32725	R	G	127	2,530				
Deltona High School	27	101 Wolf Pack Run	Deltona	32725	R	G	191	3,824				
Deltona High School	14-Café	102 Wolf Pack Run	Deltona	32725	R	G	222	4,449		400	L	shuttered per county
Deltona High School	15-Gym	100 Wolf Pack Run	Deltona	32725	R	G	0	0		0	L	unprotected windows?
Deltona High School	16-ESE	100 Wolf Pack Run	Deltona	32725	R	G	0	0		0		
Deltona Lakes Elementary School	8 Classroom	2022 Adelia Boulevard	Deltona	32728		G	131	1,968	274	150	L	
Deltona Lakes Elementary School	9 Classroom	2022 Adelia Boulevard	Deltona	32728			0	0				
Discovery Elementary School	1 Classroom	975 Abigail Drive	Deltona	32725		G	207	5,470	252	150	L	

VOLUSIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet -Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Discovery Elementary School	2 Primary Classroom	975 Abigail Drive	Deltona	32725			0	0				
Discovery Elementary School	3-Café-Band	975 Abigail Drive	Deltona	32725	R	G	220	4,408			L	
Discovery Elementary School	4 ESE Classroom	975 Abigail Drive	Deltona	32725			0	0				
Discovery Elementary School	5 Classroom	975 Abigail Drive	Deltona	32725			0	0				
Forest Lake Elementary School	2 Classroom	1600 Doyle Road	Deltona	32725			0	0			F	noted 2012 Not part of Shelter Area
Forest Lake Elementary School	3 Classroom	1600 Doyle Road	Deltona	32725			0	0				noted 2012 Not part of Shelter Area
Forest Lake Elementary School	4 Classroom	1600 Doyle Road	Deltona	32725			0	0				noted 2012 Not part of Shelter Area
Forest Lake Elementary School	5 Café / Music	1600 Doyle Road	Deltona	32725	R	G	238	4,755		150	L	
Freedom Elementray School	3	1395 South Blue Lake	DeLand	32724	N	P	0	0		150		SpNS See below,
Freedom Elementray School	4	1395 South Blue Lake	DeLand	32724	N	P	0	0				SpNS See below,
Freedom Elementray School	2-café	1395 South Blue Lake	DeLand	32724	N	P	0	0			L	SpNS See below,
Friendship Elementary School	2 Classroom	2746 Fulford Street	Deltona	32725			409	6,871	255		L	
Friendship Elementary School	3 Classroom	2746 Fulford Street	Deltona	32725			0	0				
Friendship Elementary School	4-Dining	2746 Fulford Street	Deltona	32725	R	G	245	4,893		150	L	EHPA
Galaxy Middle School	2-Café	2400 Eustace Avenue	Deltona	32725	R	P	0	0		250	S-1118A	SpNS See below,
Galaxy Middle School	9-Gym	2400 Eustace Avenue	Deltona	32725			0	0				
Heritage Middle School	2-Café	1001 Parnell Court	Deltona	32725	R	G	0	0		125	F	
Heritage Middle School	3-cr	1001 Parnell Court	Deltona	32725	R	G	469	9,385			L	EHPA
Heritage Middle School	4-cr	1001 Parnell Court	Deltona	32725	R	G	437	8,740			L	EHPA
Heritage Middle School	6-cr	1001 Parnell Court	Deltona	32725	R	G	470	9,402			L	EHPA
Heritage Middle School	9-gym	1001 Parnell Court	Deltona	32725		G, A	0	0				
Hinson Middle School	3	1860 N. Clyde Morris Blvd	Ormond Beach	32174	R	G, A	486	9,729				shuttered per county
Hinson Middle School	4	1860 N. Clyde Morris Blvd	Ormond Beach	32174	R	G, A	485	9,705				shuttered per county
Hinson Middle School	5	1860 N. Clyde Morris Blvd	Ormond Beach	32174	R	G, A	173	3,462				shuttered per county
Hinson Middle School	6	1860 N. Clyde Morris Blvd	Ormond Beach	32174	R	G, A	325	6,509				shuttered per county
Hinson Middle School	9	1860 N. Clyde Morris Blvd	Port Orange	32174	N	G, A	415	8,301				EHPA
Hinson Middle School	2-café	1860 N. Clyde Morris Blvd	Ormond Beach	32174	N	G, A	359	7,184	0	250	L	EHPA
Horizon Elementary School	7-café	4751 Hidden Lake Drive	Port Orange	32127	R	G	0	0	0	150	F	As-Is (FISH shows Bldg 7 built in 1989 and Bldg 11 Classroom built 2010)
James Park Youth Action Center	main	1700 James Street	South Daytona	32111	R	G	0	0	0	0	S-1395B	80 persons, exiting storm only
Mainlaind HS	2A-Café	Clyde Morrids Blvd	Daytona Beach	32124	R	G	208	4,156		400	EHPA	
Mainlaind HS	3-Gym	Clyde Morrids Blvd	Daytona Beach	32124	N	G	1,750	35,000			EHPA	
Mainlaind HS	5 ESE	Clyde Morrids Blvd	Daytona Beach	32124	N		0	0				NOT EHPA
Manatee Cove ES (old X elementary)	1	734 W. Ohio Avenue	Orange City	32763	R	G	0	0		0	L	
Manatee Cove ES	2	734 W. Ohio Avenue	Orange City	32763	R	G	254	5,073				shuttered per county (surveyed as X elementary)
Manatee Cove ES	3	734 W. Ohio Avenue	Orange City	32763	R	G	481	9,610				shuttered per county
Manatee Cove ES	4	734 W. Ohio Avenue	Orange City	32763	R	G	417	8,344		150		shuttered per county
New Smyrna Beach HS	3-Gym	10th St	New Smyrna	32169	N	G	0	0		500	L	847 persons, EXITING storm only
New Smyrna Beach HS	8-Café	10th St	New Smyrna	32169	N	G	0	0			L	316 persons, EXITING storm only
Osteen Elementary School	2-Cafeteria	500 Doyle Road	Osteen	32764	N	G	125	2,500			L	EHPA per county,
Palm Terrace Elementary School	1-entire	1825 Dunn Avenue	Daytona Beach	32124	R	P, A	0	0		0	F	SpNS See below,
Pathways Elementary School	2-Classroom	2100 Airport Road	Ormond Beach	32714			0	0	0	0	F	noted 2012 Not part of Shelter Area
Pathways Elementary School	3-Classroom	2100 Airport Road	Ormond Beach	32714			0	0				noted 2012 Not part of Shelter Area
Pathways Elementary School	4-Classroom	2100 Airport Road	Ormond Beach	32714			0	0				noted 2012 Not part of Shelter Area
Pathways Elementary School	5-café	2100 Airport Road	Ormond Beach	32714	R	G	238	4,755		150		
Piggotte Center		504 Big Tree Road	South Daytona	32111	R	G	0	0	0		S-1395B	100 persons, EXITING storm only
Pine Ridge High School	3 Classroom	925 Howland Boulevard	Deltona	32725			0	0				

VOLUSIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet -Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Pine Ridge High School	5	925 Howland Boulevard	Deltona	32725			0	0				
Pine Ridge High School	10-auditorium	925 Howland Boulevard	Deltona	32725			0	0				
Pine Ridge High School	1-café	925 Howland Boulevard	Deltona	32725	R	G	327	5,308		400	L	
Pine Ridge High School	7-cr	925 Howland Boulevard	Deltona	32725			0	0				
Pine Ridge High School	8-gym	925 Howland Boulevard	Deltona	32725			0	0				
Pine Ridge High School	9-music	925 Howland Boulevard	Deltona	32725			0	0				
Pine Trail Elementray School	6-café	300 Airport Road	Ormond Beach	32714		G	254	4,090		150		
Port Orange ES	5	402 Dunlawton Ave	Port Orange	32127	R	G	0	0				no longer used as shelter
Port Orange YMCA	4701-Day	4701 City Center Pkwy	Port Orange	32127	N	G	125	2,500	0	125	S-1395B	
Port Orange YMCA	4701-PE	4701 City Center Pkwy	Port Orange	32127	N	G	200	4,000	0	200	L & S	
Pride Elementary School	3 Cafeteria	1100 Learning Lane	Deltona	32738	N	G	170	4,245		150	L	
River Springs Middle School	2 Cafeteria	900 West Ohio Ave	Orange City	32763	N	G	386	9,646		250	L	
Sea breeze HS	1	2700 N. Oleander ave	Daytona Beach	32118			0	0				EXITING storm only, 11.19' SLOSH
Sea breeze HS	13	2700 N. Oleander ave	Daytona Beach	32118			0	0				EXITING storm only, 11.19' SLOSH
Sea breeze HS	14	2700 N. Oleander ave	Daytona Beach	32118			0	0				EXITING storm only, 11.19' SLOSH
Sea breeze HS	15	2700 N. Oleander ave	Daytona Beach	32118			0	0				EXITING storm only, 11.19' SLOSH
Southwestern MS	5	605 W New Hampshire Ave	Deland	32720		G	461	6,916				EHPA-2005.
Spirit Elementary	1	1500 Meadowlark Dr	Deltona	32728		G	276	5,521				shuttered per county
Spirit Elementary	2	1500 Meadowlark Dr	Deltona	32728	N	G	191	3,820		150	L	EHPA
Spirit Elementary	3	1500 Meadowlark Dr	Deltona	32728		G	425	8,501				EHPA
Spirit Elementary	4	1500 Meadowlark Dr	Deltona	32728		G	353	7,059				EHPA
Sunrise Elementary School	2-cr	3155 Phonetia Drive	Deltona	32725	R	G	300	7,283	255		L	
Sunrise Elementary School	3-cr	3155 Phonetia Drive	Deltona	32725	R	G	0	0				
Sunrise Elementary School	4-café	3155 Phonetia Drive	Deltona	32725	R	G	245	4,893		150		
Sweetwater Elementary School	2-cr	5800 Victoria Gardens	Port Orange	32127	R	G	262	5,115	0	0	F	
Sweetwater Elementary School	3-cr	5800 Victoria Gardens	Port Orange	32127			0	0				
Sweetwater Elementary School	4-cr	5800 Victoria Gardens	Port Orange	32127			0	0				
Sweetwater Elementary School	5-café	5800 Victoria Gardens	Port Orange	32127			0	0		150		
Sweetwater Elementary School	6-library	5800 Victoria Gardens	Port Orange	32127			0	0				
T.D. Taylor MS	2 Cafeteria	100 East Washington Ave	Pierson	32080	N	G	171	3,411				EHPA-2005
T.D. Taylor MS	3 Classroom (2 story)	100 East Washington Ave	Pierson	32080		G	0	0				
T.D. Taylor MS	4 Multipurpose	100 East Washington Ave	Pierson	32080		G	0	0				
T.D. Taylor MS	5 Classroom (2 story)	100 East Washington Ave	Pierson	32080		G	0	0				
T.D. Taylor MS	6a Auditorium	100 East Washington Ave	Pierson	32080		G	0	0				
T.D. Taylor MS	7 Gymnasium	101 East Washington Ave	Pierson	32080	N	G	544	10,872		400		EHPA-2005
T.D. Taylor MS	10A Classroom	101 East Washington Ave	Pierson	32080			0	0				LRDM shows not EHPA
T.D. Taylor MS	11 Classroom	101 East Washington Ave	Pierson	32080			0	0				
Timbercrest Elementary School	1-library	2401 Eustace Avenue	Deltona	32725	R	G	223	3,344	0		F	
Timbercrest Elementary School	2-cr	2401 Eustace Avenue	Deltona	32725			0	0				
Timbercrest Elementary School	3-cr	2401 Eustace Avenue	Deltona	32725			0	0				
Timbercrest Elementary School	4-café	2401 Eustace Avenue	Deltona	32725	R	G	245	4,893		150		
University High School	11 - Cafeteria	1000 W Rhode Island Ave	Orange City	32763	N	G	400	8,000		400	L	EHPA yes-2011
Volusia county Fairground	Tommy Lawr	3150 E. NY Ave	Deland	32724	R	G, A	500	10,000	250	500	L	
Volusia Pines Elementray School	2-cr	500 Kicklighter Road	Lake Helen	32744	R	G	250	5,097	0		F	
Volusia Pines Elementray School	3-cr	500 Kicklighter Road	Lake Helen	32744			0	0				
Volusia Pines Elementray School	4-cr	500 Kicklighter Road	Lake Helen	32744	R	G	264	5,278				

VOLUSIA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet -Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Volusia Pines Elementray School	5-café	500 Kicklighter Road	Lake Helen	32744			0	0		150	S	FY 10/11 1617 Need space #'s
Volusia Pines Elementray School	6-library	500 Kicklighter Road	Lake Helen	32744			0	0				
						TOTALS FOR VOLUSIA COUNTY	**22,680**	**443,991**	**1,286**	**9,864**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**22,680**	**39,238**	**-16,558**	**443,991**			**-340,769**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Atlantic High School	3-ESE Classroom	1250 Reed Canal Road	Port Orange	32129	R	P, A	107	4,818	0	179		EHPA; 45sqft/person used for Cap
Creekside Middle School	2-Café	6801 Airport Road	Port Orange	32171	N	P, A	104	6,220		185		Updated FISH Data,
Freedom Elementary School	2-café	1395 South Blue Lake	DeLand	32724	N	P, A	63	3,820		84		Updated FISH Data,
Freedom Elementary School	3 Classroom	1395 South Blue Lake	DeLand	32724	N	P, A	158	9,494				Updated FISH Data,
Freedom Elementary School	4 Classroom	1395 South Blue Lake	DeLand	32724	N	P, A	126	7,570				Updated FISH Data,
Galaxy Middle School	2 Café	2400 Eustace Avenue	Deltona	32725	N	P, A	110	6,608		166	S-1118A	Updated FISH Data,
Heritage Middle School	2 Café	1001 Parnell Court	Deltona	32725	R	P, A	107	6,449		176		Updated FISH Data,
Palm Terrace Elementary School	1 Entire	1825 Dunn Avenue	Daytona Beach	32124	R	P, A	715	42,915		176		

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**1,490**	**363**	**1,127**	**89,400**			**67,620**	**SURPLUS**			

WAKULLA

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Crawfordville ES	200 wing	379 Arron Road	Crawfordville	32327	N	G	400	6,711		400	L	2002 EHPA
Medart Elementary School		2558 Coastal Highway	Crawfordville	32327					300			
Mormon Church		US Highway 319 South	Crawfordville	32327			0	0	100			
River of Life		10 Faith Ave	Sopchoppy	32358		G	0	0				
Ochlockonee Bay United Methodist Church		45 Warrior Way	Crawfordville	32327			0	0	125			
Riversink Elementary School	1 Main	530 Lonnie Raker Lane	Crawfordville	32327	N	G	400	6,711		400	L	Built 2008 EHPA
Shadeville Elementary School		3237 Coastal Highway	Crawfordville	32327					0			
Sopchoppy School		Surf Road	Panacea	32346					200			
Wakulla County High School		164 Yellow Jacket Avenue	Sopchoppy	32358					290			
							TOTALS FOR WAKULLA COUNTY	**800**	**13,422**	**1,015**	**800**	

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**800**	**844**	**-210**	**13,422**			**-6,778**	**DEFICIT**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Uses Regional Shelter							0	0				

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**0**	**100**	**-100**	**0**			**-6,000**	**DEFICIT**			

WALTON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Freeport HS	1-partial	12615 Hwy 331 South	Freeport	32439	N	G	1,310	28,819	0	2,630	L	per State Study
Freeport HS	1-partial	12615 Hwy 331 South	Freeport	32439	R	G	1,320	30,264			S-1588-2006	portion of Bldg updated FISH
OWCC / Chautaqua Neighborhoood Center	2	908 US HWY 90 West	DeFuniak Springs	32433	R	G	401	8,020		401	S-1588-2005	
Mossy Head Elementary School	Wing 100-Admin	13270 Hwy 90 West	DeFuniak Springs	32433	N	G	52	1,041		52		Arc 4496 per state study
Mossy Head Elementary School	Wing 200-300	13271 Hwy 90 West	DeFuniak Springs	32434	N	G	708	15,966		708		EHPA per study
Mossy Head Elementary School	Wing 400	13272 Hwy 90 West	DeFuniak Springs	32435	N	G	296	5,911		296		Arc 4496 per state study
Mossy Head Elementary School	Wing 500	13273 Hwy 90 West	DeFuniak Springs	32436	N	G	337	6,733		337		Arc 4496 per state study
Mossy Head Elementary School	Wing 600	13274 Hwy 90 West	DeFuniak Springs	32437	N	G	91	1,829		91		Arc 4496 per state study
Paxton High School	100 Admin	Hwy 331	Paxton	32538	N	G	287	5,743		287		Arc 4496 per state study
Paxton High School	100 Auditorium	Hwy 331	Paxton	32538	N	G	199	3,972		199		Built 2005. Arc 4496 per state study
South Walton HS	all	645 Greenway Trail	Santa Rosa Bch	32459	R	G	0	0				
South Walton HS		645 Greenway Trail	Santa Rosa Bch	32459	R	G	953	19,052		1,751	S-1508-2005	per State Study
South Walton HS		645 Greenway Trail	Santa Rosa Bch	32459	N	G	1,507	30,126				per State Study
Walton High School	Auditorium	449 Walton Rd	DeFuniak Springs	32433	N	G	285	5,704		285		per reports
Walton High School	Gym	449 Walton Rd	DeFuniak Springs	32433	N	G	677	13,530		677		per reports
Walton High School	SW-SE Wing	449 Walton Rd	DeFuniak Springs	32433	N	G	626	12,513		626		per reports
Walton High School	Café-South Wing	449 Walton Rd	DeFuniak Springs	32433	N	G	156	3,120				per reports
Walton MS	900	625 Park Avenue	DeFuniak Springs	32435	R	P	0	0		92	S-1508-2005	
West DeFuniak Elementary School			DeFuniak Springs	32435			0	0	0			
							0	0				
						TOTALS FOR WALTON COUNTY	**9,205**	**192,343**	**0**	**8,432**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**9,205**	**1,807**	**7,398**	**192,343**			**156,203**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Walton MS {Already Funded}	900	625 Park Avenue	DeFuniak Springs	32435		P	92	5,502		92		per State Study

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**92**	**150**	**-58**	**5,520**			**-3,480**	**DEFICIT**			

WASHINGTON

Name	Bldg. #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Chipley High School / Rouhlac Middle	5 Classroom	1535 Brickyard Road	Chipley	32428	R	G	154	3,314		154	S-1523	Updated FISH Data
Chipley High School / Rouhlac Middle	6 Classroom	1535 Brickyard Road	Chipley	32428	R	G	453	10,956		453	S-1523	Updated FISH Data
Chipley High School / Rouhlac Middle	7 Lab / Classroom	1535 Brickyard Road	Chipley	32428	R	G	224	5,600		162	S-1523	Updated FISH Data
Chipley High School / Rouhlac Middle	8 Dining	1535 Brickyard Road	Chipley	32428	N	G	153	2,729		153		Updated FISH Data
Chipley High School / Rouhlac Middle	2 Classroom	1535 Brickyard Road	Chipley	32428	R	G	245	5,619		245	S-1523	Updated FISH Data
Chipley High School / Rouhlac Middle	1 Administration	1535 Brickyard Road	Chipley	32428	R	G	69	1,037		132	1588-2006	Updated FISH Data
Chipley High School / Rouhlac Middle	3 Science - Tech	1535 Brickyard Road	Chipley	32428	R	G	438	7,086		438	1588-2006	Updated FISH Data
Vernon High School	1 Administration	3232 Moss Hill Road	Vernon	32462	R	G	181	3,616	0		L	Built 2004 (per FISH). 2006 LRDM.
Vernon High School	2 Media	3232 Moss Hill Road	Vernon	32462	R	G	89	1,775			L	Built 2004 (per FISH). 2006 LRDM.
Vernon High School	3 PE / ROTC	3232 Moss Hill Road	Vernon	32462	N	G	469	9,377			L	Built 2004 (per FISH). 2006 LRDM.
Vernon High School	4 Dining	3232 Moss Hill Road	Vernon	32462	N	G	239	4,786			L	Built 2004 (per FISH). 2006 LRDM.
Vernon High School	5 Classroom	3232 Moss Hill Road	Vernon	32462	R	G	300	5,996			L	Built 2004 (per FISH). 2006 LRDM.
Vernon High School	6 ESE	3232 Moss Hill Road	Vernon	32462	N	G	166	3,323			L	Built 2004 (per FISH). 2006 LRDM.
Vernon High School	7 Auditorium	3232 Moss Hill Road	Vernon	32462	R	G	136	2,711			L	Built 2004 (per FISH). 2006 LRDM.
Vernon High School	8 Multipurpose	3232 Moss Hill Road	Vernon	32462	R	G	126	2,527			L	Built 2004 (per FISH). 2006 LRDM.
Vernon Middle School	2 Music & Dining	3206 Moss Hill Road	Vernon	32462	R	G	208	3,147		208	S-1523	Built 1999 per 2003 LRDM.
Vernon Middle School	3 Gymnasium	3206 Moss Hill Road	Vernon	32462	R	G	405	7,053		405	S-1523	Built 1999 per 2003 LRDM.
Vernon Middle School	4 Classroom	3206 Moss Hill Road	Vernon	32462	R	G	301	7,299		301	S-1523	Built 1999 per 2003 LRDM.
Vernon Middle School	5 Classroom	3206 Moss Hill Road	Vernon	32462	R	G	280	5,844		280	S-1523	Built 1999 per 2003 LRDM.
Washington County Ag Center		800 W Washington Ave	Chipley	32428			0	0	0			Unknown contruction date
						TOTALS FOR WASHINGTON COUNTY	**4,636**	**93,795**	**0**	**2,931**		

	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**4,636**	**1,530**	**3,106**	**93,795**			**63,195**	**SURPLUS**			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Retrofitted (R), New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Roulhac MS	12 (5th Grade Wing)	1535 Brickyard Rd	Chipley	32428		P	144	8,666	0		EHPA	Built 1998 per 2006 LRDM.

	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNS Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNS Shelter Capacity (ft2)			Surplus/ Deficit (ft2)	RESULT			
Storm Category 4/5	**144**	**166**	**-22**	**8,640**			**-1,320**	**DEFICIT**			

Appendix B

2014 Florida Building Code—Building, 5th Edition
Section 453.25 Public Shelter Design Criteria

453.25.1 New facilities. New educational facilities for school boards and Florida college boards, unless specifically exempted by the board with the written concurrence of the applicable local emergency management agency or the Florida Division of Emergency Management (DEM) shall have appropriate areas designed as enhanced hurricane protection areas (EHPAs) in compliance with this section.

Exception: Facilities located, or proposed to be located, in a Category A, B or C evacuation zone shall not be subject to these requirements.

453.25.1.1 Enhanced hurricane protection areas (EHPA). The EHPA areas shall provide emergency shelter and protection for people for a period of up to 8 hours during a hurricane.

453.25.1.1.1 The EHPA criteria apply only to the specific portions of (K-12) and Florida college educational facilities that are designated as EHPAs.

453.25.1.2 The EHPAs and related spaces shall serve the primary educational or auxiliary use during non-shelter occupancy.

453.25.2 Site. Factors such as low evacuation demand, size, location, accessibility and storm surge may be considered by the board, with written concurrence of the local emergency management agency or the DEM, in exempting a particular facility.

453.25.2.1 Emergency access. EHPAs shall have at least one route for emergency vehicle access. The emergency route shall be above the 100-year floodplain. This requirement may be waived by the board, with concurrence of the local emergency management agency or the DEM.

453.25.2.2 Landscaping. Landscaping around the EHPAs shall be designed to preserve safety and emergency access. Trees shall not conflict with the functioning of overhead or underground utility lines, or cause laydown or impact hazard to the building envelope.

453.25.2.3 Parking. During an emergency condition, vehicle parking shall be prohibited within 50 feet (15,240 mm) of an EHPA. Designated EHPA parking areas may be unpaved.

453.25.2.4 Signage. Floor plans of the facility, indicating EHPAs, shall be mounted in the emergency manager's office/area.

453.25.3 Design. EHPAs may be above or below ground and may have more than one story, provided the design satisfies the wind load and missile impact criteria. Modular and open-plan buildings may serve as EHPAs provided the design satisfies the wind load and missile impact criteria.

453.25.3.1 Excluded spaces. Spaces such as mechanical and electrical rooms, storage rooms, open corridors, kitchens, science rooms and labs, vocational shop areas and labs, computer rooms, attic and crawl spaces shall not be used as EHPAs.

453.25.3.2 Capacity. Fifty percent of the net square feet of a designated educational facility shall be constructed as EHPAs. The net square feet shall be determined by subtracting from the gross square feet those spaces, such as mechanical and electrical rooms, storage rooms, open corridors, kitchens, science rooms and labs, vocational shop areas and labs, computer rooms, attic and crawl spaces that shall not be used as EHPAs. The board, with concurrence of the applicable local emergency management agency or DEM, may adjust this requirement if it is determined to be in its best interest. The capacity of an EHPA shall be calculated at 20 square feet (1.86 m^2) per occupant (adults and children five years or older).

453.25.3.3 Toilets. Toilet and hand washing facilities should be located within the EHPAs and provided at one toilet and one sink per 40 occupants. These required toilet and hand-washing facilities are not in addition to those required for normal school occupancy and shall be included in the overall facility fixture count.

453.25.3.3.1 Support systems for the toilets, e.g., bladders, portable toilets, water storage tanks, etc., shall be capable of supplying water and containing waste, for the designed capacity of the EHPAs.

453.25.3.3.2 Plumbing and valve systems of "normal" toilets within the EHPAs may be designed for conversion to emergency operation to meet the required demand.

453.25.3.4 Food service. Where feasible, include counter tops for food distribution functions in the EHPAs.

453.25.3.5 Manager's office. An administration office normally used by a school administrator shall be identified as the EHPA manager's office and shall be located within the EHPA. The office shall have provisions for standby power, lighting, communications, main fire alarm control panel and storage for the manager's equipment.

453.25.4 Structural standard for wind loads. At a minimum, EHPAs shall be designed for wind loads in accordance with ASCE 7, Minimum Design Loads for Buildings and Other Structures, Risk Category IV (Essential Buildings) . Openings shall withstand the impact of wind-borne debris missiles in accordance with the impact and cyclic loading criteria per ASTM E-1886, and ASTM E-1996 or SBC/SSTD 12. Based on a research document, *Emergency Shelter Design Criteria for Educational Facilities*, by the University of Florida for the DOE, it is highly recommended by the department that the shelter be designed using the map wind speed plus 40 mph.

453.25.4.1 Missile impact criteria. The building enclosure, including walls, roofs, glazed openings, louvers and doors, shall not be perforated or penetrated by a flying object. For walls and roofs, the missile criteria are ~~is~~ as provided in ASTM E-1886 and ASTM E-1996 or SBC/SSTD 12.

453.25.4.1.1 Materials used for walls, roofs, windows, louvers, and doors shall be certified for resistance to missile impact criteria.

453.25.4.1.2 The glazed openings or permanent protective systems over glazed openings shall be designed for cyclic loading.

453.25.4.2 Roofs. Roof decks shall be cast-in-place 4-inch (102 mm) or more, normal weight concrete. Concrete decks shall be waterproof. Systems other than cast-in-place concrete shall have adequate bearing, anchorage against wind uplift, diaphragm action, and resistance to rain that are equivalent to a cast-in-place system.

> **Exception**: Structural precast concrete roofs, composite metal decks with normal weight concrete roofs, or other systems and materials that meet the wind load and missile impact criteria may be used.

453.25.4.2.1 Light weight concrete or insulating concrete may be used on roof decks of EHPAs provided the roof decks are at least 4-inch (102 mm) cast-in-place normal weight concrete or other structural systems of equivalent strength.

453.25.4.2.2 Roof openings (e.g., HVAC fans, ducts, skylights) shall be designed to meet the wind load and missile impact criteria.

453.25.4.2.3 Roof coverings shall be specified and designed according to the latest ASTM and Factory Mutual Standards for materials and wind uplift forces. Roofs shall be inspected by a licensed engineer/architect and a representative of the roofing manufacturer.

453.25.4.2.4 Roofs shall have adequate slope and drains sized for normal use and shall have emergency overflow scuppers.

453.25.4.2.5 Parapets shall satisfy the wind load and missile impact criteria; roof overhangs shall resist uplift forces.

453.25.4.3 Windows. All unprotected window assemblies and their anchoring systems shall be designed and installed to meet the wind load and missile impact criteria.

453.25.4.3.1 Windows may be provided with permanent protective systems, provided the protective system is designed and installed to meet the wind load and missile impact criteria and completely covers the window assembly and anchoring system.

453.25.4.3.2 EHPAs shall have mechanical ventilation systems. Ventilation shall be provided at a minimum rate of 2 cfm per square foot (0.6 m^3/min. per square meter) of EHPA floor area. The mechanical ventilation system shall be connected to the EHPA's emergency power.

453.25.4.4 Doors. All exterior and interior doors subject to possible wind exposure and/or missile impact shall have doors, frames, anchoring devices, and vision panels designed and installed to resist the wind load and missile impact criteria or such doors, frames, anchoring devices, and vision panels shall be covered with permanent protective systems designed and installed to resist the wind load and missile impact criteria.

453.25.4.5 Exterior envelope. The exterior envelope, louvers over air intakes and vents, and gooseneck type intakes and vents of EHPAs shall be designed and installed to meet the wind load and missile impact criteria.

453.25.4.5.1 HVAC equipment mounted on roofs and anchoring systems shall be designed and installed to meet the wind load criteria.

453.25.4.5.2 Roof mounted HVAC equipment shall have a 12-inch-high (305 mm) curb around the roof opening and be designed to prevent the entry of rain water.

453.25.4.6 Foundations and floor slabs. Foundations shall be designed to resist all appropriate loads and load combinations, including overturning moments due to wind. The floor elevation and necessary life safety and other emergency support systems of EHPAs shall be elevated above the maximum storm surge inundation elevation associated with a Category 4 hurricane event. Storm surge elevations shall be identified by the most current edition of the regional Sea Lake and Overland Surges from Hurricanes (SLOSH) studies and atlases.

453.25.5 Electrical and standby emergency power system. The EHPA shall be provided with a standby emergency electrical power system, per Chapter 27, NFPA 70 Articles 700 and 701, which shall have the capability of being connected to a backup generator or other optional power source. Where economically feasible, an equivalent photovoltaic system may be provided. The EHPA's emergency systems includes, but are not limited to: (1) an emergency lighting system, (2) illuminated exit signs, (3) fire protection system(s), alarm (campus wide) and sprinkler, and (4) minimum ventilation for health/safety purposes. The fire alarm panel shall be located in the EHPA manager's office. A remote annunciator panel shall be located in or adjacent to the school administrator's office. When generators are installed, the facility housing the generator, permanent or portable, shall be an enclosed area designed to protect the generators from wind and missile impact. Air intakes and exhausts shall be designed and installed to meet the wind load and missile impact criteria. Generators hardened by the manufacturer to withstand the area's design wind and missile impact criteria shall be exempt from the enclosed area criteria requirement.

453.25.5.1 EHPA lighting. Emergency lighting shall be provided within the EHPA area, EHPA manager's office, toilet rooms, main electrical room and generator spaces and shall be at least 10 footcandles (100 lux) of general illumination, which can be reduced to ½ footcandle (5 lux) in the sleeping areas during the night.

453.25.5.2 Optional standby circuits. Additional nonlife safety systems, as defined by Chapter 27, NFPA 70 Article 702 (optional standby circuits), may be supplied power, if available, by the Standby Emergency Power System. These systems shall be connected to the Standby Emergency Power System via an electrical subpanel to the Standby Electrical Power System's main electrical panel. This will allow selective or total load shedding of power if required. The fire alarm, emergency lighting and illuminated exit signs throughout the entire campus shall receive first priority to power provided by the Standby Emergency Power System per Chapter 27, NFPA 70 Article 700. The systems listed are not all encompassing but are in order of priority. Local officials may request additional non-life safety systems they deem necessary for health, welfare and safety of the public during occupancy:

1. Remainder of the school's campus security lighting (building and site).
2. Additional ventilation systems within the EHPA, including heat.
3. Intercom system.
4. Food storage equipment.
5. Additional electric receptacles, other than those required by Section 453.25.5.3.

453.25.5.3 Receptacle outlets. A minimum of four electrical outlets, served with power from the standby circuits, shall be provided in the EHPA manager's office.

453.25.6 Inspections. EHPAs shall be considered "threshold buildings" in accordance with Section 553.71(11), *Florida Statutes*, and shall comply with Sections 553.79(5), 553.79(7), and 553.79(8), *Florida Statutes*.

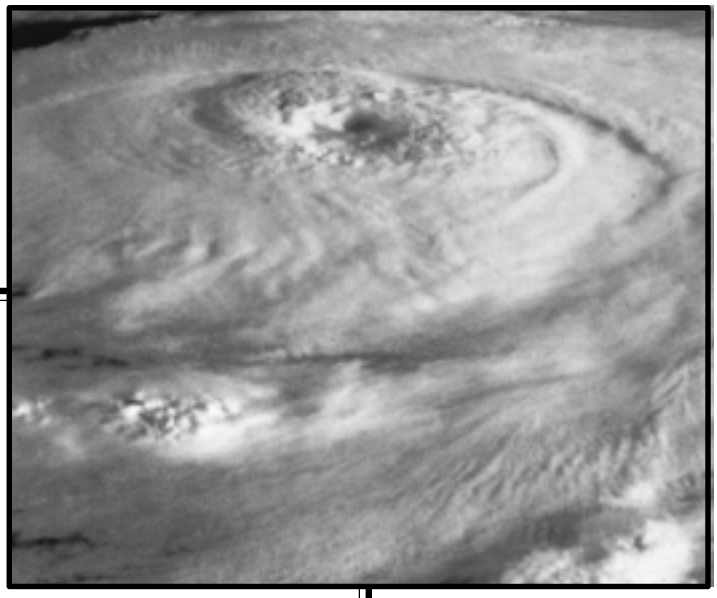
453.25.6.1 Construction of EHPAs shall be inspected during the construction process by certified building code inspectors or the design architect/engineer(s) certified pursuant to Part XII Chapter 468, *Florida Statutes* and threshold inspectors for compliance with applicable rules and laws.

453.25.6.2 The emergency electrical systems shall be inspected during the construction process by certified electrical inspector or Florida-registered professional engineers certified pursuant to Part XII Chapter 468, *Florida Statutes*, skilled in electrical design.

453.25.6.3 EHPAs shall be inspected and recertified for compliance with the structural requirements of this section every five years by a Florida-registered professional engineer skilled in structural design. If any structural system, as specified in this section, is damaged or replaced, the recertification shall be obtained prior to the beginning of the next hurricane season.

453.25.6.4 All shutter systems, roofs, overflow scuppers, and structural systems of EHPAs shall be inspected and maintained annually prior to hurricane season and after a major event. All emergency generators shall be inspected under load conditions including activation of the fire alarms, emergency lights as per applicable equipment codes and NFPA standards, and including mechanical systems and receptacles connected to the emergency power.

Appendix C
Standards for Hurricane Evacuation Shelter Selection



Standards for Hurricane Evacuation Shelter Selection

American Red Cross

Together, we can save a life

An interagency group comprised of the Federal Emergency Management Agency, the U.S. Army Corps of Engineers, the Environmental Protection Agency and Clemson University, has developed hurricane evacuation shelter selection standards. These standards reflect the application of technical data compiled in hurricane evacuation studies, other hazard information, and research findings related to wind loads and structural problems. These standards are supplemental to information contained in ARC 3041, *Mass Care: Preparedness and Operations* concerning shelter selection.

Planning considerations for hurricane evacuation shelters involve a number of factors and require close coordination with local officials responsible for public safety. Technical information contained in Hurricane Evacuation Studies, storm surge and flood mapping, and other data can now be used to make informed decisions about the suitability of shelters.

In the experience of the American Red Cross, the majority of people evacuating because of a hurricane threat generally provide for themselves or stay with friends and relatives. However, for those who do seek public shelter, safety from the hazards associated with hurricanes must be assured. These hazards include—

- Surge inundation.
- Rainfall flooding.
- High winds.
- Hazardous materials.

The following standards address the risks associated with each of these hurricane-associated hazards.

Surge Inundation

In general, hurricane evacuation shelters should not be located in areas vulnerable to hurricane surge inundation. The National Weather Service has developed mathematical models, such as Sea, Lake, and Overland Surges from Hurricanes (SLOSH) and Special Program to List Amplitudes of Surges from Hurricanes (SPLASH), that are critical in determining the potential level of surge inundation in a given area.

- Carefully review inundation maps in order to locate all hurricane evacuation shelters outside of Category 4 storm surge inundation zones.
- Avoid buildings subject to isolation by surge inundation in favor of equally suitable buildings not subject to isolation. Confirm that ground elevations for all potential shelter facilities and access routes obtained from topographic maps are accurate.
- Do not locate hurricane evacuation shelters on barrier islands.

Rainfall Flooding

Rainfall flooding must be considered in the hurricane evacuation shelter selection process. Riverine inundation areas shown on Flood Insurance Rate Maps (FIRMs), as prepared by the National Flood Insurance Program, should be reviewed. FIRMs should also be reviewed in locating shelters in inland counties.

- Locate hurricane evacuation shelters outside the 100-year floodplain.
- Avoid selecting hurricane evacuation shelters located within the 500-year floodplain.
- Avoid selecting hurricane evacuation shelters in areas likely to be isolated due to riverine inundation of roadways.
- Make sure a hurricane evacuation shelter's first floor elevation is on an equal or higher elevation than that of the base flood elevation level for the FIRM area.
- Consider the proximity of shelters to any dams and reservoirs to assess flow upon failure of containment following hurricane-related flooding.

High Winds

Consideration of any facility for use as a hurricane evacuation shelter must take into account wind hazards. Both design and construction problems may preclude a facility from being used as a shelter. Local building codes are frequently inadequate for higher wind speeds.

- If possible, select buildings that a structural engineer has certified as being capable of withstanding wind loads according to **ASCE (American Society of Engineers) 7-98** or **ANSI (American National Standards Institute) A58 (1982)** structural design criteria. Buildings must be in compliance with all local building and fire codes.
- Failing a certification (see above), request a structural engineer to rank the proposed hurricane evacuation shelters based on his or her knowledge and the criteria contained in these guidelines.
- Avoid uncertified buildings of the following types:
  —Buildings with long or open roof spans longer than 40 feet.
  —Unreinforced masonry buildings.
  —Pre-engineered (steel pre-fabricated) buildings built before the mid-1980s.
  —Buildings that will be exposed to the full force of hurricane winds.
  —Buildings with flat roofs or built with lightweight materials.
- Give preference to the following:
  —Buildings with 10°-30° pitched, hipped roofs; or with heavy concrete roofs.
  —Buildings no more than 60 feet high.
  —Buildings in sheltered areas (protected from strong winds).
  —Buildings whose access routes are not tree-lined.

Hazardous Materials

The possible impact from a spill or release of hazardous materials should be taken into account when considering any potential hurricane evacuation shelter.

All facilities manufacturing, using, or storing hazardous materials (in reportable quantities) are required to submit *Material Safety Data Sheets* (emergency and hazardous chemical inventory forms) to the Local Emergency Planning Committee (LEPC) and the local fire department. These sources can help you determine the suitability of a potential hurricane evacuation shelter or determine precautionary zones (safe distances) for facilities near potential shelters that manufacture, use or store hazardous materials.

- Facilities that store certain reportable types or quantities of hazardous materials may be inappropriate for use as hurricane evacuation shelters.
- Hurricane evacuation shelters should not be located within the ten-mile emergency planning zone (EPZ) of a nuclear power plant.
- Chapters must work with local emergency management officials to determine if hazardous materials present a concern for potential hurricane evacuation shelters.

Interior Building Safety Criteria During Hurricane Conditions

Based on storm data (e.g., arrival of gale-force winds), determine a notification procedure with local emergency managers regarding when to move the shelter population to pre-determined safer areas within the facility. Consider the following:

- Do not use rooms attached to, or immediately adjacent to, unreinforced masonry walls or buildings.
- Do not use gymnasiums, auditoriums, or other large open areas with long roof spans (longer than 40 feet) during hurricane conditions.
- Avoid areas near glass unless an adequate shutter protects the glass surface. Assume that windows and the roof will be damaged and plan accordingly.
- Use interior corridors or rooms.
- In multi-story buildings, use only the lower floors (no higher than 60 feet) and avoid corner rooms.
- Avoid any wall section that has portable or modular classrooms in close proximity, if these are used in your community.
- Avoid basements if there is any chance of flooding.

Least-Risk Decision Making

Safety is the primary consideration for the American Red Cross in selecting hurricane evacuation shelters. When anticipated demands for hurricane evacuation shelter spaces exceed existing capacity as defined by the preceding standards, there may be a need to utilize less preferred facilities. It is critical that shelter selection decisions be made carefully and in consultation with local emergency management and public safety officials. This process should include the following considerations:

- No hurricane evacuation shelter should be located in an evacuation zone for obvious safety reasons. All hurricane evacuation shelters should be located outside of Category 4 storm surge inundation zones. Certain exceptions may be necessary, but only if there is a high degree of confidence that the level of wind, rain, and surge activities will not surpass established shelter safety margins.
- When a potential hurricane evacuation shelter is located in a flood zone, it is important to consider its viability. By comparing elevations of sites with FIRMs, one can determine if the shelter and a major means of egress are in any danger of flooding. Zone AH (within the 100-year flood plain and puddling of 1-3 feet expected) necessitates a closer look at the use of a particular facility as a sheltering location. Zones B, C, and D may allow some flexibility. It is essential that elevations be carefully checked to avoid unnecessary problems.
- In the absence of certification or review by a structural engineer, any building selected for use as a hurricane evacuation shelter must be in compliance with all local building and fire codes. Certain exceptions may be necessary, but only after evaluation of each facility, using the aforementioned building safety criteria.
- The Red Cross uses the planning guideline of 40-square feet of space per shelter resident. During hurricane conditions, on a short-term basis, shelter space requirements may be reduced. Ideally, this requirement should be determined using no less than 15 square feet per person. Adequate space must be set aside for registration, health services, and safety and fire considerations. Disaster Health Services areas should still be planned using a 40-square feet per person calculation. On a long-term recovery basis, shelter space requirements should follow guidelines established in ARC 3041, *Mass Care: Preparedness and Operations*.

Hurricane Evacuation Shelter Selection Process

General procedures for investigating the suitability of a building or facility for use as a hurricane evacuation shelter are as follows:

- Identify viable sites. Evacuation and transportation route models must be considered.
- Complete a risk assessment on each viable site. Gather all pertinent data from SLOSH and/or SPLASH (storm surge), FIRM (flood hazard) models; determine the facility base elevation; and obtain hazardous materials information and previous studies concerning each building's suitability.
- Have a structural engineer evaluate the facility and rate its ability to withstand wind loads according to ASCE 7-98 or ANSI A58 (1982) structural design criteria.
- Inspect the facility and complete a *Red Cross Facility Survey* (ARC Form 6564) and a *Self-Inspection Work Sheet/Off Premises Liability Checklist*, in accordance with ARC 3041. Note all potential liabilities and the type of construction. Consider the facility as a whole. One weak section may seriously jeopardize the integrity of the building.

Increasing Shelter Inventory

An annual review of all approved hurricane evacuation shelters is required. Facility improvements, additions, or deterioration may change the suitability of a selected facility as a hurricane evacuation shelter. Facility enhancements may also enable previously unacceptable facilities to be used as hurricane evacuation shelters.

Work with officials, facility managers, and school districts on mitigation opportunities. Continue to advocate that the building program for new public buildings, such as schools, should include provisions to make them more resilient to possible wind damage. Suggest minor modifications of municipal, community, or school buildings, such as the addition of hurricane shutters, while buildings are being planned. Such modifications will make them useful as hurricane evacuation shelters.

Finally, add any new shelters to chapter shelter system and disaster response plans. Share shelter information with local emergency planning partners and the state lead chapter for Disaster Services for inclusion in state disaster response plans.

Appendix D:

Acronyms

Appendix D: Acronyms

ADA – American Disabilities Act

AMSL – Above Mean Sea Level

ANSI – American National Standards Institute

ARC – American Red Cross

ARC 3041 – ARC publication *Mass Care - Preparedness and Operations*

ARC 4496 – ARC publication *Standards for Hurricane Evacuation Shelter Selection*

ASCE – American Society of Civil Engineers

ASCE 7 – ASCE publication *Minimum Design Loads for Buildings and Other Structures*

ASCE 24 – ASCE publication *Flood Resistant Design and Construction*

ASTM – American Society for Testing and Materials

ASTM E 1886 and E 1996 – ASTM standards for windborne debris impact

BEBR – Bureau of Economic and Business Research (University of Florida)

DOE – Department of Energy (U.S.)

DOE-STD-1020 – U.S. Department of Energy publication – *Natural Phenomena Hazards Design and Evaluation Criteria*

EHPA – Enhanced Hurricane Protection Area

FBC – Florida Building Code

FEMA – Federal Emergency Management Agency

FISH – Florida Inventory of School Houses

FIRM – Flood Insurance Rate Map

Fla. Stat. – Florida Statutes

FNSS – Functional Needs Support Services

GP – General Population (shelter)

Acronyms (Continued)

HMGP – Hazard Mitigation Grant Program

IBC – International Building Code

ICF – Insulated Concrete Form

ICC – International Code Council

K-12 (school) – Kindergarten to High School Grade 12

LEPC – Local Emergency Planning Committee

LiDAR – Light Detection and Ranging

MWFRS – Main Wind Force Resisting System

NHC – National Hurricane Center

NWS – National Weather Service

PECO – Public Education Capital Outlay (and Debt Service Trust Fund)

PSN – Persons with Special Needs

RPC – Regional Planning Council

RF – Reduction Factor

SLOSH – Sea, Lake, and Overland Surges from Hurricanes

SpNS – Special Needs Shelter

Sq.Ft. – Square Feet (area quantity dimension)

SREF – State Requirements for Educational Facilities

SRES – Statewide Regional Evacuation Study

SSTD 12 – Southern Building Code Congress International - Standard 12 - *Test Standards for Determining Resistance From Windborne Debris*

TAS – Testing Application Standard

Appendix E:

Glossary

Appendix E: Glossary

Approve: Acceptable to the authority having jurisdiction. Also, Approved.

As-Is: Current or existing condition.

Access and Functional Needs Population(s): Groups whose needs may not be fully addressed by traditional service providers. This includes groups that may feel they cannot comfortably or safely access and use the standard resources offered in disaster preparedness, response, and recovery. This includes, but is not limited to: those who have a physical and/or mental disability (blind, cognitive disorders, mobility limitations, deaf and/or hard of hearing, etc); Limited or non-English speaking; medically or chemically dependent; geographically and/or culturally isolated; Frail elderly, and children.

Accessibility: A site, building, facility, or portion thereof that complies with the *Americans with Disabilities Act Accessibility Guidelines for Building and Facilities (Code of Federal Regulations 28 CFR Part 36)* and/or the *Florida Building Code—Building, Chapter 11* (reference: *Florida Building Code--Accessibility*).

Barrier Island (Coastal): Geological features which lie above the line of mean high water and are completely surrounded by open marine waters that front upon the Gulf of Mexico, Atlantic Ocean, Florida Bay or Straits of Florida; reference Section 161.54(2), Florida Statutes.

Board: Unless otherwise specified, means a district school board, a college board of trustees, or a university board of trustees.

Certify: Statement in writing by a duly licensed professional attesting to compliance with a standard. Also, Certification.

Core Area (or Protected Area): Portion(s) within a facility or building enclosed within one or more walls, partitions, ceilings, roofs, assemblies, screens, barriers or baffling that when surveyed and analyzed as a unit can provide improved protection of occupants from specified external hazard(s) when compared to the host or adjacent structure(s).

Critical Support Systems: Structures, systems and components required to ensure the health, safety and well-being of occupants. Critical support systems include, but not limited to, life-safety systems, potable and waste water systems, electrical power systems and heating, ventilation and air-conditioning (HVAC) systems.

Educational Facilities: Means the buildings and equipment, structures, and special educational use areas that are built, installed, or established to serve primarily the educational purposes and secondarily the social and recreational purposes of the community and which may lawfully be used as authorized by Florida Statutes and approved by boards.

Glossary (continued)

Enhanced Hurricane Protection Area: A new educational facility, or portion thereof, designed, constructed, inspected and maintained in accordance with the Public Shelter Design Criteria, Section 453.25, *Florida Building Code—Building*.

Evacuation Shelter: A safe congregate care facility that provides essential support services and is utilized for populations displaced by an emergency or disaster event. For planning purposes, the operational period of an Evacuation Shelter is from 24 hours prior to forecast landfall time until 72 hours after landfall of a hurricane or severe storm. An evacuation shelter may be located either inside or outside of the disaster impact area. See also Risk Evacuation Shelter and Host Evacuation Shelter.

Evacuation Zone (Hurricane): Area(s) designated by a jurisdiction's emergency management agency requiring evacuation from particular hurricane scenarios to protect populations vulnerable to storm surge inundation. Evacuation zones are developed taking into consideration all populated areas having a risk of storm surge inundation, and areas not subject to inundation but may be isolated as a result.

Excluded Space: Spaces such as mechanical, plumbing, electrical and telecommunication equipment rooms, storage rooms and closets, exterior/outside circulation and corridors, restrooms and shower areas, kitchen and food preparation rooms, science labs, computer and information technology labs, vocational and industrial technology labs and shops, library and media rooms and labs, administrative office and support areas, record vaults, attics and crawl spaces. Reference Section 453.25.3.1, *Florida Building Code—Building*.

Functional Needs Support Services: Services that enable children and adults to maintain their usual level of independence in a general population shelter. FNSS includes reasonable modification of policies, practices and procedures, durable medical equipment, consumable medical supplies, personal assistance services and other goods and services as needed. Children and adults requiring FNSS may have physical, sensory, mental health, cognitive and/or intellectual disabilities affecting their ability to function independently without assistance. Reference Section 3.1, *Guidance on Integration of Functional Needs Support Services in General Population Shelters*, FEMA, 2010.

Guideline: Criterion or procedure established to assist in determining a course of action, but not necessarily required or enforceable by law. A framework that can assist in decision making.

Glossary (continued)

Host Evacuation Shelter: A facility that is safe and provides essential support services, and is located outside of a hazard risk area; e.g., projected path of an approaching hurricane or severe storm. As local conditions are not expected to present hazards such as storm surge inundation, inland rainfall flooding, high winds, or hazardous materials which exceed the building codes of the facilities, shelter selection guidelines in ARC 4496 do not have to be considered. For planning purposes, the operational period of a Host Evacuation Shelter is from 24 hours prior to forecast landfall time until 72 hours after landfall of a hurricane or severe storm.

Included Space: All rooms and areas not listed in the definition of excluded space.

Long Span (Roof): See Open Span.

Long-Term Shelter: A safe congregate care facility that provides essential support services and is utilized for durations typically longer than two (2) weeks for populations displaced by an emergency or disaster event.

Mass-Care: Emergency provision of life sustaining services to ensure the health, safety and well-being of a congregate or collective population, to include shelter, food and water, sanitation, first aid, security, etc.

Mega-Shelter: An arena, stadium, convention center or similar high-occupancy facility that is used to shelter an exceptionally large population of evacuees from a major disaster. Mega-shelters are often designed, planned or designated to accommodate more than 5,000 evacuees in dormitory area(s) at the same time. A mega-shelter may be used at any time in the emergency cycle (evacuation, response and recovery) and may be located inside or outside of the disaster impact area.

Mitigation: Actions taken to prevent or reduce the risk to life, property, social, economic activities, and natural resources from natural or technological hazards.

Net Usable Floor Area: The floor area of included spaces reduced to account for partitions and walls, columns, fixed or movable objects, furniture, equipment or other features that under probable conditions cannot be removed or stored during use as a shelter.

New Construction: Means any construction of a building or unit of a building in which the entire work is new. An addition connected to an existing building which adds additional square footage to the space inventory is considered new construction. See S.453.5.8, FBC-bldg.

Glossary (continued)

Occupancy: The purpose for which a building or other structure, or part thereof, is used or intended to be used.

Occupant Support Areas: Areas required to ensure the health, safety and well-being of occupants. Occupant support areas may include, but not limited to, shelter management, food preparation, water and food storage, electrical and mechanical rooms, toilet and other sanitation rooms, and first-aid stations.

On-site: Means located either inside, immediately adjacent to, or on the same contiguous property grounds of a facility, building or place and under the control of the owner or lawful tenant.

Open Span (Roof): An area in a structure where the clear distance between supporting elements (beams, columns, etc.) in the shortest direction is 40 feet or more.

Person(s) with Special Needs: Someone who during periods of evacuation or emergency require sheltering assistance due to physical impairment, mental impairment, cognitive impairment, or sensory disabilities. See Rule 64-3.010(1), Florida Administrative Code.

Recognize: Acceptance of validity based upon available facts, documents and certifications. Also, recognition.

Reduction Factor: Factors used to reduce the net floor area in order to accommodate presence of exterior and interior walls, furnishings, equipment, walkways, etc., resulting in the net usable floor area.

Remodeling: Means the changing of existing facilities by rearrangement of spaces and their use and includes, but is not limited to, the conversion of two classrooms to a science laboratory or the conversion of a closed plan arrangement to an open plan configuration.

Renovation: Means the rejuvenating or upgrading of existing facilities by installation or replacement of materials and equipment and includes, but is not limited to, interior or exterior reconditioning of facilities and spaces; air-conditioning, heating, or ventilating equipment; fire alarm systems; emergency lighting; electrical systems; and complete roofing or roof replacement, including replacement of membrane or structure.

Retrofit: Modifications performed upon an existing structure or infrastructure with the goal of significantly reducing or eliminating potential damage due to a specific hazard.

Glossary (continued)

Risk Evacuation Shelter: A facility that is safe and provides essential support services, and is located inside of a hazard risk area; e.g., projected path of an approaching hurricane or severe storm. As local conditions may present hazards such as storm surge inundation, inland rainfall flooding, high winds, or hazardous materials which may exceed the building codes of the facility, shelter selection criteria in ARC 4496 do need to be considered. For planning purposes, the operational period of a Risk Evacuation Shelter is from 24 hours prior to forecast landfall time until 72 hours after landfall of a hurricane or severe storm. The designation does not imply that a shelter is capable of affording complete protection or is free from hazards but only that it meets established minimum safety criteria.

Safe: Affording protection that at a minimum is consistent with the intent of American Red Cross publication *Standards for Hurricane Evacuation Shelter Selection* (ARC 4496). Also, Safer and Safest.

Saffir-Simpson Hurricane Scale: The current prevalent system of classifying hurricane intensity in the Atlantic, Caribbean and East Pacific oceans. Hurricanes are categorized on a scale of 1 (minimum) to 5 (extreme) based on wind velocity and provides examples of types of damage and impacts in the United States associated with winds of the indicated intensity.

Shelter: A designated facility, building or place of safety that temporarily provides essential support services with the goal of preserving life and reducing human suffering.

Short-Term Shelter: A safe congregate care facility that provides essential support services and is utilized for durations of less than two (2) weeks for populations displaced by an emergency or disaster event. Also referred to as Standard Shelter.

Shelter Envelope: Vertical and horizontal materials and assemblies that enclose a shelter area and serve as protective barriers from hurricane wind and debris hazards. The shelter envelope includes roof coverings, roof assembly, roof top vent & equipment penetrations for assemblies, exterior walls, door and window assemblies, glazing, skylight assemblies, louvers and where applicable floor and interior wall assemblies that separate the shelter from unprotected areas of a host building.

Shutters: Permanent or temporary closures or shields and assemblies that serve as a structural barrier to resist wind induced loads that act on their surface(s), to include aerodynamic and wind-borne debris impact loads.

Site: The spatial location of existing or planned facility(s), ancillary structures and utilities, improvements and surrounding environment. A space of ground occupied or to be occupied by a facility or program.

Glossary (continued)

Sea, Lake and Overland Surges from Hurricanes (SLOSH): A computerized numerical model developed by the National Weather Service to estimate storm surge heights resulting from historical, hypothetical or predicted hurricanes by taking into account atmospheric pressure, size, forward speed and track data. These parameters are used to create a model of the wind field which drives the storm surge.

Special Needs Client(s): See Person(s) with Special Needs.

Special Needs Shelter (SpNS): Location(s) that are, in whole or in part, designated under Chapter 252 and Section 381.0303, Florida Statutes, to provide shelter and services to persons with special needs who have no other option for sheltering. These shelters are designated to have back-up generator power. Special needs shelter services are to minimize deterioration of pre-event levels of health. See Rule 64-3.010(10), Florida Administrative Code.

Storm Surge: An abnormal rise in sea level accompanying a hurricane or other intense storm, and whose height is the difference between the observed level of the sea surface and the level that would have occurred in the absence of the storm. Storm surge is usually estimated by subtracting the normal or astronomical high tide from the observed storm tide.

Standard: Reference, criterion or procedure that is accepted or acknowledged as being authoritative, and establishes a minimum quantitative or qualitative measure or attribute that can be required and enforceable by law.

Standard Shelter: See Short-Term Shelter.

Appendix F, Part 1:

Mass Care Standards and Indicators, Version 011-072209
(Supersedes *Mass Care—Preparedness and Operations*, ARC 3041)

Mass Care Standards and Indicators

Purpose

Normally the first assistance to be provided in a disaster is mass care services, which are intended to minimize the immediate, disaster-caused suffering of people through the provision of food, clothing, shelters and supplies. Based on the community, culture, economy and geography of the affected region and the scope of the disaster relief operation, service providers will determine the most effective service delivery strategies for meeting the needs of those affected. This service is provided regardless of ethnicity, religion, citizenship, age, gender, disability, economic status, or sexual orientation. Fundamental to the responsibilities of providing assistance is listening to and observing the needs of individuals and families and facilitating referrals for other activities such as health services and mental health services.

Services

Service provision is made available through one or more of five integrated elements:

(1) individual or congregate temporary shelters
(2) fixed or mobile feeding operations
(3) distribution of relief supplies
(4) health and / or mental health services
(5) information on recovery assistance

Process

Immediate needs are characterized as physical, emotional and informational. The first priority is to determine when and where mass care services are to be provided. The first stage of the response usually begins at the community level. At a minimum, those involved undertake the necessary activities to accommodate the immediate needs in the earliest hours and days until additional help arrives. This requires coordination at all levels, and a concerted effort is needed to maintain communication prior to, in the event of and post disaster. These immediate needs may include any or all of the following:

Physical needs

- shelter (protection from harm and physical safety)
- space and materials for sleep
- food
- water
- health assessments and first aid
- durable medical equipment/medical supplies
- dietary needs
- recovery and clean-up supplies
- toiletries
- baby supplies

Emotional needs

- emotional support and psychological first aid from staff
- establishment of structured routines
- opportunities for children and families to participate in their own recovery
- assistance from concerned staff
- opportunity to communicate their situation

Informational needs

- status of disaster and relief efforts
- status of family members
- types of available assistance
- process of obtaining assistance
- accessible formats

Methods of Mass Care Service Delivery:

Sheltering

Shelters provide temporary housing for people displaced by disaster; in addition to temporary housing, residents may be supplied with emergency provisions, receive meals, and gather information on assistance and recovery. Shelter residents may also have access to health and mental health professionals.

Fixed sites

Organizations determine at the time of the disaster, considering safety and accessibility, sites in the community where individuals and families affected by the disaster may receive food, distribution items, psychological first aid, health assessments including emergency first aid and/or welfare and recovery information.

Mobile units

Organizations go out into communities affected by disaster to provide individuals and families with food, distribution items, emergency first aid, psychological first aid and/or welfare and recovery information, depending on the type of mobile unit being utilized.

The purpose of this section of the document is to provide benchmarks for organizations and common goals for service delivery. The standards and indicators defined below were developed in coordination with experienced practitioners from a wide range of organizations. This information is meant to be used as a tool and should not prevent an organization from providing Mass Care services. As a result of inter-agency collaboration, new tools are being developed to help organizations meet the needs of those affected by disaster.

Mass Care Standards and Indicators

Sheltering:

Shelters provide a safe place for individuals and families affected by a disaster and may offer, among other things, food, snacks, beverages, cots, blankets, sanitation facilities, safety and information on recovery efforts.

No persons seeking shelter will be denied services. Shelter workers will strive to accommodate those with disabilities. If a shelter is unable to provide accommodation, the shelter manager will assist in identifying alternatives and a referral will be made.

Shelter staff members abide by principles of confidentiality.

Shelters strive to be safe, secure spaces. Shelter management takes active measures to ensure the safety of those being assisted.

Shelters strive to protect the family unit by keeping family members together.

Shelters strive to accommodate the varying cultural and faith-based requirements of the residents. Such requirements could include variations in sleeping, eating and living spaces, and providing spaces to meet and honor spiritual needs.

Shelter facilities are selected, (pre-disaster, whenever possible) using the following standards and indicators:

Twenty square feet of personal sleeping space per person is designated for emergency short term (24-48 hrs) evacuation shelters and 40-60+ square feet of usable space per person for post disaster shelters.

Potable water is supplied in a sufficient amount to meet the needs of the shelter operations. Consideration should be given to additional supply demands created by cleaning, food service operations, laundry, drinking, bathing, and other hygiene purposes.

Toilets are provided at a number that prevents excessive wait times. In addition, sanitation and health considerations must be made to ensure that the facilities are fit for use. Supplement existing facilities with portable

units as necessary. On average one toilet for every 20 persons will meet the needs of the shelter population.

Adequate hand washing stations must be available to meet the health and sanitation needs of the shelter population. Hand washing stations should be located near toilet areas and equipped with soap, disposable towels and warm water if possible. Supplement existing facilities with portable units as necessary. On average one hand washing lavatory for every 20 persons will meet the needs of the shelter population.

Each shelter resident should have an opportunity to have a 15 minute shower once per day. Adequate facilities should be maintained to meet the demand. If showers are not available, provide transportation to another facility on a regular basis or supplement existing facilities with portable units as necessary. An approximate ratio of 1 shower for every 25 persons will meet this need.

Separate restroom facilities for each gender, which are well lit to ensure security.

Sewage or other disposal systems that can process at least 1.5 gallons of human waste per person per day.

Storage and removal of solid waste in the amount of 5 lbs per person, per day.

In extended sheltering situations, laundry services are made available to residents through onsite or offsite facilities.

Shelter facilities that are in compliance with Americans with Disabilities Act Accessibility Guidelines should be identified and used whenever feasible.

Accommodations for persons with disabilities, with health or mental health conditions, or who are elderly, are made whenever possible. Other resources might need to be identified to accommodate individuals who require additional assistance.

Availability of an alternative power supply is recommended.

Additional considerations of structural integrity, location, parking and back up energy supply should always be made when selecting a facility to be used as a disaster shelter.

Shelters are opened either pre-disaster or within two hours of notification or occurrence of a disaster event.

All shelter staff have received training and possess appropriate qualifications.

The ratio of staff to residents is appropriate to the size of the shelter. The minimum number of staff to open a shelter is four persons.

To meet the health needs, a shelter should be staffed with health professionals at a rate of one health and one mental health professional to 100 shelter residents. Adjustments may be made at night with consideration of the needs of the shelter population.

Signage is posted clearly throughout the facility indicating the rules of the shelter and assistance information such as essential phone numbers, location of exits, etc. Information should be posted in appropriate languages and accessible formats to ensure effective communication.

When a client enters a shelter, a process is used to determine if there are acute emergency medical needs or if special accommodations or referrals are required.

Shelter residents and staff are monitored for signs of illness and injury. Illnesses must be reported to the appropriate health professional in the shelter. If multiple shelter residents exhibit similar symptoms, local public health authorities shall be notified immediately.

Service animals are permitted in shelters.

The privacy of shelter residents is respected. Any personal information is kept secure and access is limited to those staff members who need information to provide service.

If children are present, a safe space for them to play and interact should be provided. This area should be staffed with trained, background checked personnel or children should be supervised directly by their parent or guardian

A hygienic environment is promoted throughout the shelter.

Waste receptacles are adequately spaced to allow for proper collection and emptied regularly to prevent overflow. Provide one 30 gallon container with lid and plastic bag for every 10 persons.

A contingency plan is established in the event of a loss of electrical power, loss of potable water or loss of plumbing.

Shelter kitchens follow local sanitation codes and personnel follow safe food handling procedures.

Snacks and beverages are available at shelters as soon as they are open or is practical and safe. A meal should be served within 4 hours or within the next traditional meal time (e.g. 6-8am; 11am-1pm, 5-7pm). A hot meal should be provided within 24 hours of opening.

Snacks are made available to shelter residents 24 hours per day.

Meals conform to cultural, ethnic, religious and dietary needs customary to the population being served within 36 hours provided the extent of the emergency allows.

A designated dining area is established. Food is not permitted outside this area.

Considerations as to the transition of shelter residents to more permanent housing are made at the onset of the sheltering operation.

Shelters have pre-established evacuation plans and shelter management is prepared to execute them if the need arises.

Advanced closing notification is required. In longer term shelters, it is appropriate to give notice at least 48 hours prior to closure. For those shelters that are open for a very short time period, less time is required. However, consideration of the shelter residents should be made in such cases.

Feeding:

All persons in want of food provisions are served without distinction of any kind. Forecast the

projected demand following the initial 24-48 hours.

Food distribution is responsive, transparent and equitable.

Provide meals in shelters as well as emergency community feeding through mobile distribution and / or fixed sites for affected individuals and families, emergency workers or other groups providing disaster relief. Provide meals to other agency shelters when the ability to do so exists.

Initiate mobile feeding, within six hours of safe access for staff, to affected individuals and families and relief workers returning to and cleaning up disaster- damaged homes. Provide meals in instances of severe disruption to electrical power and other utilities.

Establish fixed feeding sites when there is a high concentration of disaster affected individuals and families at specific locations. Such sites may include:

- Community or civic centers
- Search and rescue sites
- Emergency services command centers
- Apartment buildings
- Levee worker crew sites
- Site of a mass casualty incident
- At the kitchen site where food is prepared.

All staff have received requisite training, including safe food handling, and possess appropriate qualifications to deliver feeding services.

Food donated by individuals is not accepted. All in-kind donations of prepared (cooked) food must be from commercial vendors or recognized partner agencies, in appropriate sizes and quantities.

All kitchen units abide by local, state and federal sanitation codes.

All food preparation and service meet the guidelines of the local health department on safe food handling.

Adequate restrooms and hand washing stations are provided at feeding sites.

Food temperatures are kept within the appropriate range to preserve food quality. Store and maintain food outside the temperature danger zone (TDZ) of 41° F and 135° F. Prepared food held within the TDZ longer than 4 hours must be discarded. Ensure that hot foods stay hot (above 135° F) and cold foods stay cold (below 41° F).

All modes of transportation for mobile feeding units are equipped to maintain proper food temperatures and safe handling.

Consistent with individual needs and dietary recommendations, provide a daily diet of at least 2,000 calories with sufficient amounts of vitamins and nutrients (based on federal nutrition guidelines).[1]

Standard serving sizes for meals are 8 oz. entrees, 6 oz. side dishes and 6 oz. dessert, measured in volume.

To identify food waste use the difference between meals prepared and meals served. If the difference is greater than ten percent it is considered wasteful.

Ensure that meals served meet the cultural, ethnic, religious and dietary needs of the affected individuals within 36 hours in shelters and as soon as practical at other locations.

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[1] USDA Dietary Guidance, http://riley.nal.usda.gov/nal_display/index.php?info_center=4&tax_level=3&tax_subject=256&topic_id=1342&level3_id=5140&level4_id=0&level5_id=0&placement_default=0
DRI: Recommended Intakes for Individuals, http://www.iom.edu/Object.File/Master/21/372/0.pdf

Advanced notice is given to the affected community prior to food delivery shutdown.

Water:

In the event that the normal supply of water is contaminated or interrupted, organizations may initiate distribution of bottled water, the quality of which meets all applicable health standards.

Water may be distributed at shelters, fixed distribution sites and/or by mobile distribution.

Potable water is supplied in a sufficient amount to meet the needs of the shelter operations. Consideration should be given to additional supply demands created by cleaning, food service operations, laundry, drinking, bathing, and other hygiene purposes.

Water quality must meet all applicable federal, state and local sanitation standards.

Bottled water is provided in sealed containers that meets federal, state and local sanitation standards.

Hauled or Bulk water is delivered in approved containers from a safe source that meets federal, state and local sanitation standards.

Water distribution is responsive, transparent and equitable and takes into consideration the dignity of the individual.

Bulk Distribution:

Bulk distribution items are determined by the disaster caused needs of the community, including the following:

- Type of damage
- What infrastructure is affected (are stores open, stocked with food, baby items, etc.)?
- Perimeter of the disaster affected area.
- Special needs of vulnerable populations. o

Approximate number of families affected. o General extent of damage to homes.

- If the disaster event is over or continuing.
- Projected escalation of the event.
- Status of utilities.
- Access to disaster affected areas and populations.
- Road conditions.
- Services provided by other agencies.
- Percentage of population that will remain in or return to homes.
- Percentage of population that currently have access to homes for clean-up and salvage efforts and a timeline for remainder of population to gain access to their homes.
- Specific items needed.

Trigger points to initiate Bulk Distribution include:

- Specific community needs for products to assist in relief and/or recovery during or after a disaster are identified.
- Percentage of population isolated, making Bulk Distribution the most reasonable method of service delivery.
- Infrastructure of regular supply routes to local vendors severely hindered.
- Feeding requirements beyond Red Cross capacity and indications that this will continue.
- Extreme weather conditions that create an unusually high demand for items such as water, blankets and other essentials.

Distribution of items essential to basic survival, health and sanitation are prioritized before items for clean-up and recovery.

Several considerations are made in determining the amount, type and size of product selected for distribution, including:

- Immediacy of need
- Supply chain
- The number of times clients will need to return to obtain the supplies
- The number of different products offered at one time
- How much clients can be expected to carry
- The ratio of clients in vehicles versus on foot
- How much product is available to be issued
- How much is immediately available versus on order

Duplication of services is minimized.

Distribution is carried out in a timely manner.

Items are distributed equitably and are made accessible to all. This may necessitate mobile distribution and/or fixed sites. Examples of fixed sites include:

- Service delivery sites
- Service centers
- Community centers
- Churches
- Fire stations
- Government offices
- Respite centers
- Parking lots

Food items are stored off the ground and are protected from pests and the environment.

Advanced notice is given prior to distribution shutdown.

On-Site Donations Management

It is best to separate donation sites from bulk distribution sites for logistical reasons. However, there may be times when donation sites may be co-located with bulk distribution points. If this occurs, the two areas must be distinctly separated with different access.

Accepting donations of goods instead of buying products can be a useful way to save money on needed disaster supplies and to provide a positive experience for donors who can then feel that they are contributing to the relief effort. However, there are certain conditions donations must meet in order to be appropriate for relief efforts.

- Must meet an identified need
- Large, bulk donations of products to match specific quantities: To provide an equitable distribution of disaster supplies, attempt to only accept products donated in quantities large enough to support the needs of all or most of the affected population.
- Packaging: Whenever possible, product should be received on pallets and shrink-wrapped to facilitate sorting and ensure fast equitable distribution.
- Condition*:* Only accept products that are in good condition and that are not expired. Be careful about accepting used items because it is difficult to ensure their quality.
- Appropriateness*:* Do not accept products that are not familiar to the affected population, or products that are not appropriate due to cultural or religious considerations. Certain items can also be inappropriate for particular climates.

Standards and Indicators for Disaster Shelter Care for Children Purpose

To provide guidance to shelter managers and staff that ensures children have a safe, secure environment during and after a disaster – including appropriate support and access to essential resources.

Standards and Indicators for All Shelters

Under most circumstances a parent, guardian or caregiver is expected to be the primary resource for their children, age 18 and younger.

In cases where parents or guardians are not with their children, local law enforcement personnel must be contacted to assist with reunification. In many cases, local law enforcement will also contact local child protective/child welfare services for their expertise.

Children are sheltered together with their families or caregivers.

Every effort is made to designate an area for families away from the general shelter population.

Family areas should have direct access to bathrooms.

Parents, guardians, and caregivers are notified that they are expected to accompany their children when they use the bathrooms.

Every effort is made to set aside space for family interaction:

This space is free from outside news sources thereby reducing a child's repeated exposure to coverage of the disaster.

If age-appropriate toys are available they will be in this space, with play supervised by parents, guardians or caregivers.

Shared environmental surfaces in shelters that are frequently touched by children's hands or other body parts should be cleaned and disinfected on a regular basis. High contact areas may include diaper changing surfaces, communal toys, sinks, toilets, doorknobs and floors. These surfaces should be cleaned daily with a 1:10 bleach solution or a commercial equivalent disinfectant based on the manufacturer's cleaning instructions. Local health department authorities may be consulted for further infection control guidance.

When children exhibit signs of illness, staff will refer children to on-site or local health services personnel for evaluation and will obtain consent from a parent, guardian or caretaker whenever possible.

When children exhibit signs of emotional stress, staff will refer children to on-site or local disaster mental health personnel and will obtain consent from a parent, guardian or caretaker whenever possible.

Children in the shelters come in all ages and with unique needs. Age appropriate and nutritious food (including baby formula and baby food) and snacks are available, as soon as possible after needs are identified.

Diapers are available for infants and children as soon as possible after needs are identified. General guidelines suggest that infants and toddlers need up to 12 diapers a day.

Blankets, for all appropriate ages, are also available.

A safe space for breastfeeding women is provided so they may have privacy and a sense of security and support (this can include a curtained off area or providing blankets for privacy).

Basins and supplies for bathing infants are provided as soon as possible after needs are identified.

Standards and Indicators for Temporary Respite Care for Children

Temporary Respite Care for Children provides temporary relief for children, parents, guardians or caregivers. It is a secure, supervised and supportive play experience for children in a Disaster Recovery Center, assistance center, shelter or other service delivery site. When placing their child or children in this area, parents, guardians or caregivers are required to stay on-site in the disaster recovery center, assistance center or shelter or designate a person to be responsible for their child or children, who shall also be required to stay on-site.

In cases where temporary respite care for children is provided in a Disaster Recovery Center, assistance center, shelter and other service delivery site, the following Standards and Indicators shall apply:

Temporary respite care for children is provided in a safe, secure environment following a disaster.

Temporary respite care for children is responsive and equitable. Location, hours of operation and other information about temporary respite care for children is provided and easy for parents, guardians and caregivers to understand.

All local, state and federal laws, regulations and codes that relate to temporary respite care for children are followed.

The temporary respite care for children area is free from significant physical hazards and/or architectural barriers and remains fully accessible to all children.

The temporary respite care for children area has enclosures or dividers to protect children and ensure that children are supervised in a secure environment.

The temporary respite care for children area is placed close to restrooms and a drinking water source; hand washing and or hand sanitizer stations are available in the temporary respite care for children area.

Procedures are in place to sign children in and out of the temporary respite care for children area and to ensure children are only released to the parent(s), guardian(s), caregiver(s) or designee(s) listed on the registration form.

All documents---such as attendance records and registration forms (which include identifying information, parent, guardian or caregiver names and contact information), information about allergies and other special needs, injury and/or incident report forms---are provided, maintained, and available to staff at all times.

Toys and materials in the temporary respite area are safe and age appropriate.

Prior to working in the temporary respite care for children area, all shelter staff members must receive training and orientation. In addition, such staff must successfully complete a criminal and sexual offender background check. Spontaneous volunteers are not permitted. When inside the temporary respite area, staff shall visibly display proper credentials above the waist at all times.

When children are present, at least two adults are to be present at all times. No child should be left alone with one adult who is not their parent, guardian or caregiver.

All staff members must be 18 years or older. Supervision of the temporary respite care for children area is provided by a staff person at least 21 years of age.

An evacuation plan will be developed with a designated meeting place outside the center. The evacuation plan will be posted and communicated to parent(s), caregiver(s), and guardian(s) when registering their child.

The child to staff ratio is appropriate to the space available and to the ages and needs of the children in the temporary respite care for children area at any time.

Appendix F, Part 2:

Standards for Hurricane Evacuation and Disaster Event Special Needs Shelter (SpNS) Selection, Florida Department of Health (December 3, 2015)

Standards for Hurricane Evacuation and Disaster Event Special Needs Shelter (SpNS) Selection

I. SpNS Design Criteria

Department of Health (DOH) guidance for design and selection of facilities to be used as a Special Needs Shelters (SpNS) in a hurricane/disaster event shall be consistent with the American Red Cross publication "Mass Care Standards and Indicators". The SpNS facility must also meet all Florida Building Code (FBC) and American's with Disabilities Act (ADA) accessibility requirements.

II. SpNS Occupancy Period

For planning purposes, it is assumed that the SpNS will be occupied at its maximum occupant capacity for, at a minimum, a continuous seventy-two (72) hour period during and post impact by a major hurricane (i.e., Category 3 or higher). It should also be assumed that the SpNS may be occupied for 12-hours in advance of arrival of hurricane force winds.

III. SpNS Structural Requirements

SpNS Structural Requirements shall at a minimum be consistent with the ***American Red Cross publication "Standards for Hurricane Evacuation Shelter Selection (ARC 4496).*** Preference shall be given to school facilities designed, constructed and inspected to comply with the public shelter design criteria, ***Enhanced Hurricane Protection Area (EHPA)*** requirements as set forth in section 453.25, *Florida Building Code—Building*, or the ICC-500 storm shelter requirements of section 423, *Florida Building Code—Building*.

IV. Location and Site Requirements - Emergency Access

At a minimum, each SpNS should have at least two (2) major means of access for emergency vehicles. The additional need for access is due to the potential for medical emergencies associated with the fragile health conditions of the SpNS client population. The SpNS access/exit points provide a means of emergency access and/or evacuation. These access/exit points should be well supervised to monitor for safety and/or security threat to the SpNS occupants. All occupants of the building should be within a reasonable distance from these access/exit points, providing a choice in direction of escape in case of fire. All exits should be clearly marked and visible.

V. SpNS Capacity

Calculations to determine the capacity of a SpNS are identical to the EHPA calculations, except that the recommended minimum number of net usable floor area square feet for each client occupant is 60. A provision should be made for family, friends and caregivers that accompany the clients. The minimum net usable floor area for non-client occupants shall be 20 square feet each.

VI. Plumbing and Sanitation

A. Potable Water. Given the planning assumption that the SpNS will be open for a minimum of 72-hours during and post impact by a major hurricane, the SpNS should have a minimum of five (5) gallons of potable water per person per day for all uses (i.e., drinking water, hygiene, food preparation, etc.)

B. Toilets, Sinks, Showers, Waste Water and Garbage Disposal. Requirement criteria remain equal to ARC's *Mass Care Standards and Indicators* or EHPA requirements, whichever is greater, with the exception of the waste water reservoir capacity and garbage disposal plan shall be based on a 72-hour design occupant capacity.

C. Electrical Standby and Emergency Power Systems. It should be assumed that utility power outages will occur and may continue for the duration of SpNS operation. Due to the fragile health and medical condition of the SpNS clients, it is imperative that the SpNS have back-up electric power system.

The standby and emergency electric power system shall be capable of supporting life safety, branch outlet and lighting circuits, air conditioning and other systems that are critical to the well-being of the clients, staff and care-givers. The absence of air conditioning can result in the deterioration of the SpNS client's health status. Clients with chronic lung disease deteriorate at a rapid pace as the increase of temperature leads to increased breathing difficulty.

The power grid and standby and emergency electric power capability must also be sufficient to power receptacles utilized to run oxygen concentrators, oxygen nebulizers and other medical equipment. (Note: Oxygen concentrators draw an average of 3.5-5.5 amps per unit. Nebulizers are used intermittently and have a negligible power draw.) Additional lighting (fixed or mobile) may be needed for providing client care (i.e., wound care, dressing change, etc.) and should be considered when determining power capacity.

Appropriately trained and equipped personnel should be present and on site at all times during the SpNS occupancy to operate, maintain and repair the generator(s). This is advisable because of the number of variables associated with the use of multiple electrical devices under the unfavorable situation of mass sheltering. Variable factors may include, but not be limited to the following:

- the number of outlets on a branch circuit,
- the amperage draw of the devices,
- whether the demand is constant or if there is "start-up load" which results in an amperage draw which can be two to three times the stated "boiler-plate" amperage,
- the length of any extension cords and the gauge of the wire,
- intermittent cycling which can result in two or more units starting at the same time to overtax the ampacity of the circuit

Sufficient fuel stores should be available for 72-hours of continuous generator use at full load.

Generators should be tested after each significant incident and on a monthly basis or as recommended by manufacturer if more frequent. Sites on facility grounds (i.e. lift stations) should have quick connects (as appropriate) to provide for utilization of back-up power generation equipment.

Sufficient supplies chosen by appropriately trained personnel must be available to route the power to where it is needed, (i.e., extension cords of adequate size, plug strips, tape to secure cords to the floor, etc.).

VII. Emergency Management Considerations

A. Posting SpNS floor plan. A copy of the floor plan must be posted for planning purposes.

B. Food Service. Food service planning should provide for the assumption of a minimum of 72-hours for SpNS occupancy. Additional consideration for clients with special dietary/metabolic health issues should be factored in food service planning. Vector risks should be minimized.

C. Supplemental Space Allocations. Additional space allocations should be considered for the following:

- SpNS clients with ambulatory difficulties may need additional space for assistive devices (i.e., wheelchairs and walkers). These clients may also need to be provided space allocation on the ground floor or in areas free from level changes.
- SpNS clients who have Alzheimer's and other dementia related diagnoses need additional space and safe area to roam and prevention from elopement.
- SpNS clients with service animals may need to be provided an area separate or away from the general SpNS client population.
- Quarantine areas for clients requiring isolation precautions. Respiratory isolation areas to be designated and assigned at each SpNS prior to occupancy by appropriately trained/experienced personnel.
- Appropriate space should be provided for the safe storage and movement of compressed gases (i.e., oxygen tanks, liquid oxygen) or other SpNS equipment and supplies.

Appendix G:

Guidance for Implementation of
Public Shelter Design Criteria

Appendix G –Guidance for Implementation of Public Shelter Design Criteria

G.0 PUBLIC SHELTER DESIGN CRITERIA

The public shelter design criteria, which are also known as the Enhanced Hurricane Protection Area or EHPA criteria, were developed to ensure that appropriate new educational facilities can serve as public hurricane evacuation shelters. The EHPA criteria provide supplemental code provisions to existing applicable codes and standards. The EHPA criteria are performance-based, with limited prescriptive options provided to serve as a guide toward achieving the required level of performance.

The SREF public shelter design criteria are promulgated in Section 453.25, *Florida Building Code—Building* (FBC). This section of the code applies to public schools (K-12) and community colleges.

The EHPA criteria were also prepared to ensure that new educational facilities could meet or exceed applicable national design and construction standards, guidelines and "best practices." In particular, the American Red Cross' ARC 4496 should be consulted during the planning and design process for an EHPA; see Appendix C. ARC 4496 is the minimum hurricane evacuation shelter criteria used by the Division, American Red Cross and local emergency management officials for surveying, ranking and designating public hurricane evacuation shelters.

ARC 4496 can also be viewed at the following web address:

http://www.floridadisaster.org/Response/engineers/documents/newarc4496.pdf

Limited guidance is also provided to assist with design of EHPA's when designated as Special Needs Shelters (SpNS). There currently aren't any consensus codes, standards or guidelines published specifically for design and construction of SpNS. However, the guidance included in this Plan is consistent with policies and recommendations distributed by the Department of Health.

G.1 EHPA Occupancy Period

For planning purposes, the EHPA is assumed to be occupied at its maximum occupant capacity for, at a minimum, a continuous eight (8) hour period of exposure to major hurricane conditions (i.e., Category 3 or higher). Off-site and unprotected on-site structures and utilities should be assumed to be inoperable, damaged or destroyed.

Though the EHPA criteria assume an 8-hour design occupancy period, hurricane evacuation shelters may be occupied from about 24 to 36 hours in advance of arrival of hurricane force winds, 8 to 24 hours during hurricane conditions, and 24 to 72 hours (or longer) after hurricane force winds subside. Boards, design professionals and emergency managers should consider this fact during the design of an EHPA. A design planning guide of 24 hours of self-sufficient operations at maximum occupant capacity may be more appropriate. A design occupancy minimum duration of 24 hours is also consistent with the International Code Council's *Standard on the Design and Construction of Storm Shelters* (ICC 500).

G.2 Structural Requirements

The wind load performance objective of modern building codes and standards is to prevent or reduce deaths and injuries within the built environment. This is achieved through design and construction of buildings such that, under design loads, primary load carrying systems remain stable and do not collapse. Survival without collapse implies that occupants should be able to find an area of relative safety inside the structure during a severe wind event. Localized damage, breach of the structural envelope and flow of wind through the structure and water damage are acceptable. However, this design philosophy is not necessarily acceptable for public hurricane evacuation shelters (and certain other essential facilities).

Hurricane Andrew (1992) and other subsequent major hurricanes demonstrated that the potential exists for hundreds of shelter occupants to find themselves scrambling for safety as the structural envelope of a designated public shelter progressively collapses or disintegrates. This scenario is unacceptable to emergency management and other public officials. The EHPA criteria were developed to significantly enhance the safety of public hurricane evacuation shelters, and enhance their ability to survive and continue to serve the public after exposure to a major hurricane. Therefore, the performance expectation for EHPA's is that not only the structural frame resist collapse in a Category 3 or greater hurricane, but that the exterior envelope components, cladding materials and assemblies must also remain sufficiently intact to protect building occupants and preserve the mass care function.

G.2.1 Wind Loads. EHPA's are required to be designed and constructed in accordance with the wind load provisions of the American Society of Civil Engineers Standard 7, *Minimum Design Loads for Buildings and Other Structures* (ASCE 7). The minimum design wind speed is per ASCE 7's Risk Category IV (essential facility). Also, to ensure that the EHPA remains an enclosed structure (and avoid a partially enclosed condition, which would invalidate the design), building openings are also required to withstand impact by large windborne debris in accordance with ASTM E-1886 and ASTM E-1996.

The selection of an appropriate design wind speed is critical to the performance of public hurricane evacuation shelters. ASCE 7-2014's design wind speed maps are based upon approximately a 700-year recurrence for Risk Category II (ordinary risk), and a 1,700-year recurrence for Risk Categories III (substantial risk) and IV (essential facilities). The ASCE 7-2010 and 2014 FBC—Building design wind speed map for Risk Categories II can be seen on Figure G-1 and Risk Categories III and IV can be seen on Figure G-2. The increase in recurrence interval for Risk Categories III and IV accounts for a greater degree of hazard to human life or the community due to the nature of a facility's occupancy or use. Risk Category IV is the minimum wind design and construction requirement for EHPA's, and reflects the **minimum** state and national design standard.

However, the EHPA code provisions highly recommend that the ASCE 7 map wind speed be increased by 40 mph (mph). The Division also highly recommends the 40 mph increase in base wind speed. The 40 mph increase translates into wind designs of as high as 220 mph in south Florida and 240 mph in the Florida Keys, to as low as 165 mph in inland north-central Florida. The increase in design wind speed improves consistency of the EHPA wind load design provisions of the national storm shelter standard ICC 500's hurricane provisions and the Federal Emergency

Management Agency's (FEMA) publication *Design and Construction Guidance for Community Safe Rooms* (FEMA P-361).

FEMA P-361 can be viewed at the following web address:

http://www.fema.gov/safe-room-resources/fema-p-361-design-and-construction-guidance-community-safe-rooms

The Division also recommends use of Exposure C (open unsheltered terrain) when calculating design wind load, regardless of the design wind speed selected or the environmental conditions surrounding the proposed facility. Both ASCE 7 and the FBC permit use of Exposure B (sheltered terrain) in areas more than a mile from the coast, which can significantly reduce the needed design capacity of a facility. Severe hurricanes, like Hurricane Andrew, tend to scour the environment by blowing over trees and flattening lightweight or poorly constructed structures. This scouring reduces the sheltering effect of a facility's environment. Severe hurricanes can also produce "micro-burst" and weak to moderate tornado-type damage, which can devastate a small area and negate the influence of any local environmental sheltering. Therefore, for consistency with ICC 500 and FEMA P-361, the Division recommends use of Exposure C when calculating design wind load.

The EHPA code recommended 40 mph increase in design wind speed doesn't achieve a near-ultimate (or "near-absolute") level of protection for building occupants. However, it does provide an "enhanced" (or intermediate) level of protection between minimum ASCE 7 design requirements and near-ultimate levels of protection. ICC 500 and FEMA P-361 are intended to provide near-ultimate protection for shelter occupants. They base their respective hurricane wind designs on 10,000-year recurrence interval events; i.e., a one (1) percent or less chance of occurrence during the life of a structure. Figure G-3 shows the design wind speed map for the hurricane provisions of ICC 500 and FEMA P-361.

The EHPA criteria also require that roof assemblies remain waterproof (i.e., rain tight) to preserve the emergency management function. Therefore, roof weather membranes (or secondary rain barriers) must meet the wind load requirements.

The Division also strongly recommends the addition of 40 mph to the Risk Category IV map wind speed due to reductions in design wind loads between the predecessor ASCE 7-2002 and 2004 FBC—Building EHPA design procedures and their respective 2014 design procedures. Based on a review of design wind loads at representative locations across the state, ASCE 7-2002 and 2004 FBC—Building minimum EHPA averaged about 70 percent less than ICC 500 design wind loads. However, the addition of 40 mph to the map wind speed (Importance Factor I=1.00) provided an average of about 16 percent higher design wind loads than ICC 500. ASCE 7-2010 and 2010 FBC—Building minimum EHPA (Risk Category IV) averaged about 130 percent less than ICC 500 design wind loads, and the EHPA (Risk Category IV) recommended addition of 40 mph averaged 44 percent less than ICC 500 design wind loads.

Table G-1 provides a comparison of key design factors that influenced the results of the design wind load review. The single biggest change was reduction of ASCE 7 and FBC's wind load combination factor from 1.6 to 1.0. All other design criteria being equal, the increase in design wind speeds given in the 2010 basic wind speed maps was insufficient to offset this reduction.

Table G-1 Wind Design Factor Comparisons for ICC 500, 2004 EHPA and 2014 EHPA

Design Criteria	**ICC 500**	**2004 FBC EHPA, minimum**	**2004 FBC EHPA, map+40 mph**	**2014 FBC EHPA, minimum***	**2014 FBC EHPA, map*+40 mph**
Design Wind Speed Map	ICC 500 (160-220 mph)	ASCE 7 (100-150 mph)	ASCE 7 (140-190 mph)	ASCE 7 (125-200 mph)	ASCE 7 (165-240 mph)
Map Wind Speed Increase, mph	*N/A*	0	40	0	40
Importance Factor, *I*	1.00	1.15	1.00	*N/A*	*N/A*
Directionality Factor, K_d	1.00	0.85	0.85	0.85	0.85
Exposure Category	C	C	C	C	C
Internal Pressure Coefficient, GC_{pi}	+/- 0.55	+/- 0.18	+/- 0.18	+/- 0.18	+/- 0.18
Wind Load Combination Factor	1.00	1.60	1.60	1.00	1.00
* – Risk Category IV; *N/A* – Not Applicable					

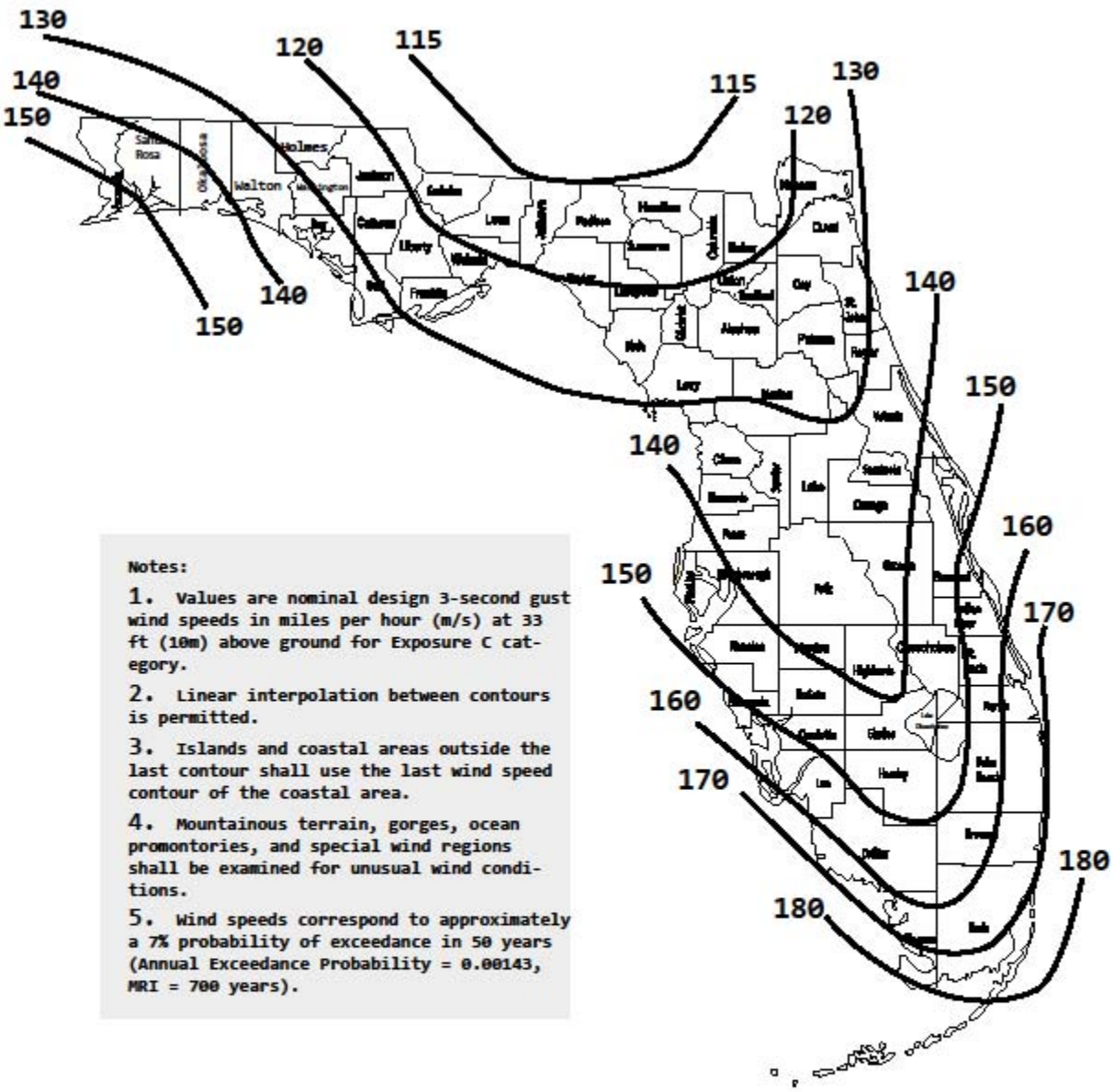
Though the increase in map wind speeds appear to reduce the gap in hurricane wind design criteria between ASCE 7 and EHPA with that of ICC 500, the results do not support the improvement. To maintain the EHPA's performance expectations as an enhanced" or intermediate level of protection, the Division strongly recommends the addition of 40 mph to the Risk Category IV map wind speed.

Another consideration when selecting a design wind speed is differences between ASCE 7 and hurricane intensity wind speed measurements. ASCE 7's basic wind speed map uses a 3-second gust wind measurement method. However, the National Hurricane Center (NHC) and National Weather Service (NWS) categorize hurricanes using the Saffir-Simpson Hurricane Intensity Scale, which uses a one-minute sustained wind measurement method. Table G-2 provides a comparison of common wind measurement methods. For comparison purposes, visualize an anemometer (measures wind velocity) with Table G-2 representing concurrent scales on its wind speed display, similar to a vehicle speedometer that registers vehicle speed in both miles per hour and kilometers per hour. The anemometer will read about 135 mph on the 3-second gust scale when the 1-minute sustained scale reads 111 mph.

TABLE G-2. Equivalent Basic Wind Speeds Wind Speed Conversion 3-Second Gust, Fastest-Mile and 1-Minute Sustained velocities (mph)						
Wind Measurement Method	**Saffir-Simpson Hurricane Intensity Scale**					
	Category 1	**Category 2**	**Category 3**	**Category 4**	**Category 5**	**Extreme Category 5**
3-second Gust (ASCE 7 and 2010 Florida Building Code)	90	117	135	160	190	230
Fastest-Mile (Standard Building Code)	75	100	117	141	170	209
1-minute Sustained (National Hurricane Center)	74	96	111	131	156	188

The NHC defines a major hurricane as one that achieves Category 3 or higher intensity on the Saffir-Simpson Scale. National guidance also indicates that all of Florida is subject to exposure to major hurricane conditions, with some locations in South Florida and the panhandle regions especially susceptible to severe hurricanes. Therefore, to ensure that public hurricane evacuation shelters are designed and constructed to resist major hurricanes, the 40 mph increase in base wind speed is critical to achieve the EHPA performance expectation.

Figure G-1. ASCE 7-2010 and 2014 Florida Building Code—Building, Risk Category II Design Wind Speed Map



Notes:

1. Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33 ft (10m) above ground for Exposure C category.
2. Linear interpolation between contours is permitted.
3. Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
4. Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
5. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (Annual Exceedance Probability = 0.00143, MRI = 700 years).

Figure 1609A Ultimate Design Wind Speeds, V_{ult}, for Risk Category II Buildings and Other Structures

Figure G-2. ASCE 7-2010 and 2014 Florida Building Code—Building, Risk Category IV Design Wind Speed Map

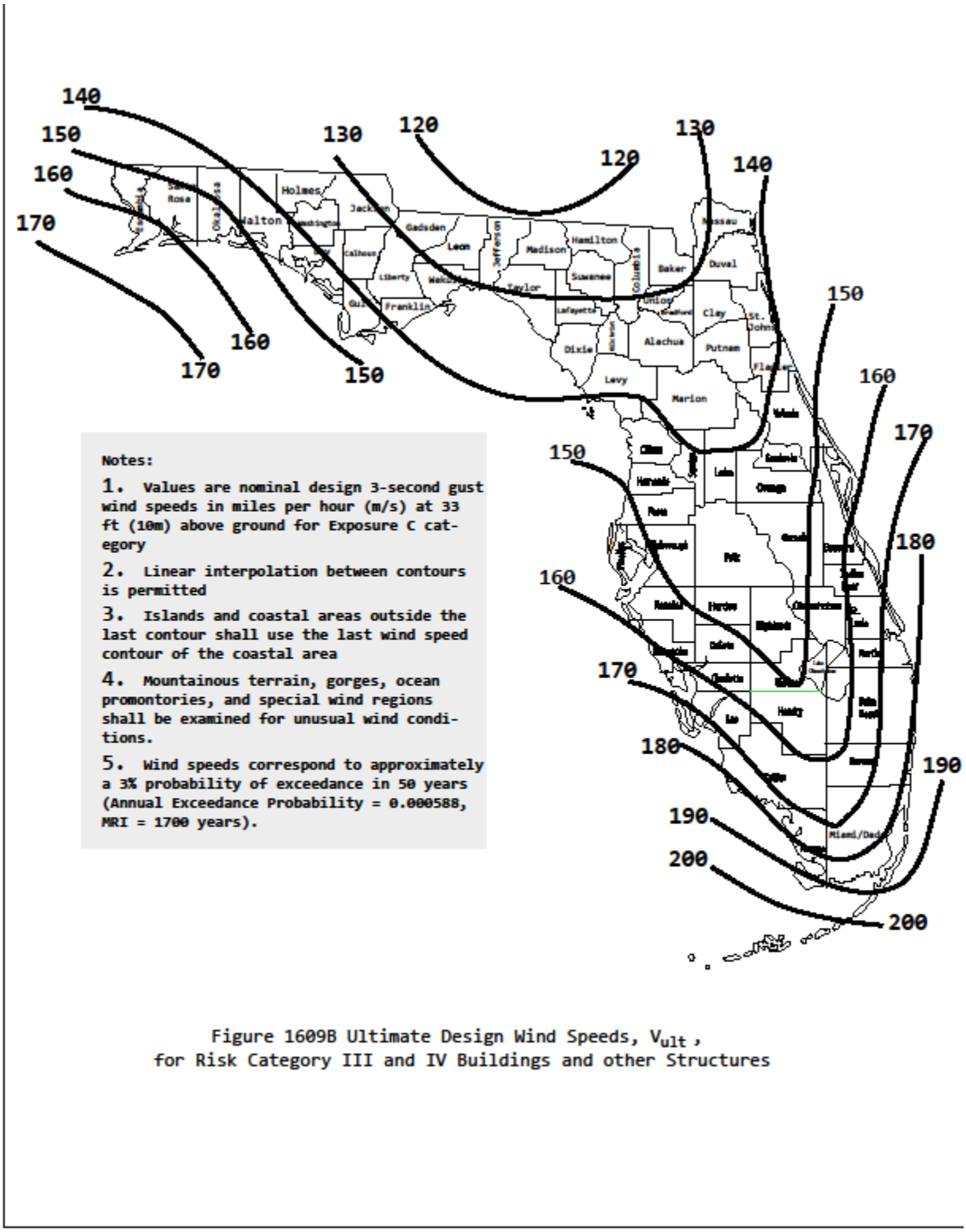
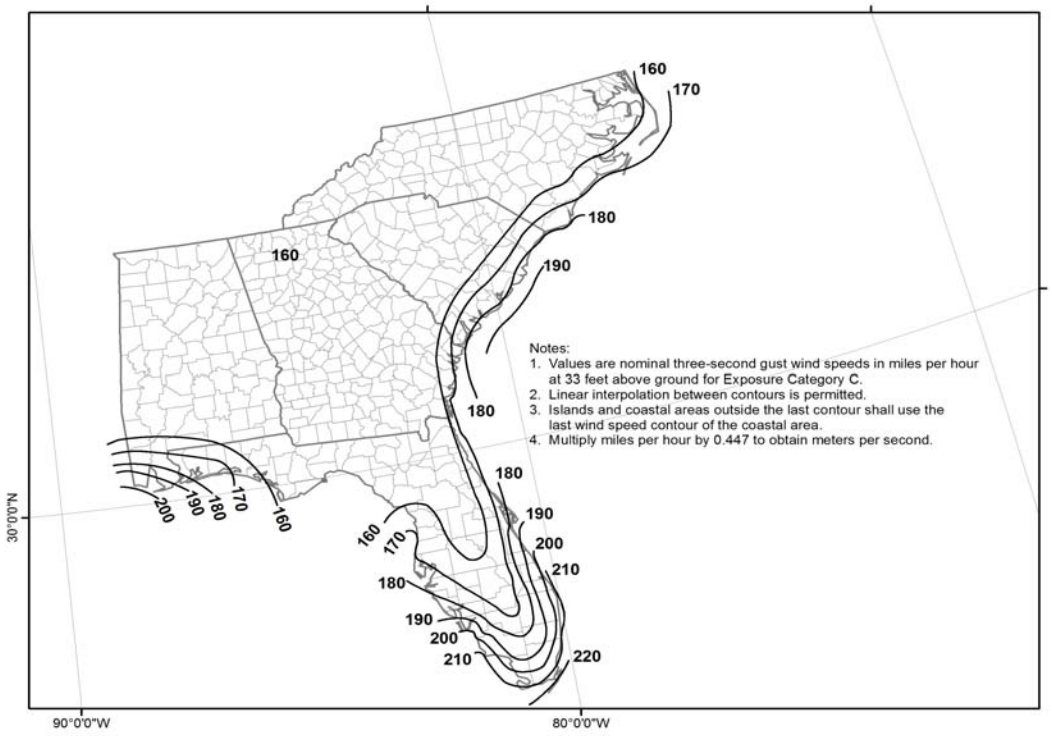


Figure G-3. ICC 500 Hurricane Design Wind Speed Map
Source: International Code Council



G.2.2 Windborne Debris Impact. All exterior surface components and cladding materials of EHPA's, and their supporting assemblies, are required to resist windborne debris impact. This includes walls, roofs, windows, skylights, glass block, doors, louvers, etc. This requirement is applicable to all EHPA's, regardless of proposed siting in a location outside of the normal windborne debris regions prescribed in ASCE 7 or the FBC. The minimum debris impact standards are ASTM E 1886 and ASTM E 1996. That is, the pertinent cladding materials and assemblies must, at a minimum, resist penetration by a nominal 2"x4" lumber plank weighing nine (9) pounds propelled at 34 mph (50 feet per second) and striking "end-on" and perpendicular to the assembly. Though not specifically cited in Section 453.25.4.1, FBC, windborne debris impact resistant assemblies meeting the requirements of section 1609.1.4, FBC (including Miami-Dade TAS 201, 202 and 203) are recognized by the Division as suitable minimum alternatives. Construction assemblies that are "deemed to comply" with Section 1626, FBC--Building, are also considered suitable. For guidance on additional types of assemblies that have been tested and passed large missile performance criteria, please see Appendix K.

However, please note that the Department of Education has stated that roof assemblies must be tested and certified to meet ASTM E 1886 and ASTM E 1996 as an assembly. This applies to district school board and community college facilities. With the exception of code prescriptive concrete deck assemblies, "deemed to comply" assemblies will not be approved by the Department of Education. Therefore, "deemed to comply" assemblies are only applicable to other state and local agency facilities.

The Florida Department of Education's list of approved roof decks can be found at the following web address:

http://www.fldoe.org/core/fileparse.php/7735/urlt/0075365-roofdecksmemo.pdf

The Division recommends that facilities that may be subjected to an unusual barrage of heavy debris and building wreckage incorporate a more rigorous debris impact standard. This includes facilities that are located within 300 feet of significant exposure to unanchored large object debris sources or poorly constructed/partially engineered buildings. An example is an EHPA facility proposed to be located adjacent to a partially engineered unreinforced masonry building; portions of roof and wall materials, roof top equipment and building contents may be entrained into the wind field as the weak building disintegrates under severe wind loads. This heavy debris can have devastating impacts upon inadequate roof and wall components, cladding materials and assemblies, and potentially create significant breaches in the shelter building's structural envelope. Also, intrusion of heavy debris through the shelter building's envelope can present a hazard to building occupants.

The design professionals-of-record should consider the fact that occupants of EHPA's may open doors and windows during hurricane conditions. This human behavior was often reported during the 2004 hurricane season; see section G.2.5 for additional information. The basic design criteria for essential facilities, including EHPA's, assumes a substantially enclosed structure with controlled air movement and pressure changes (positive and negative). Though it is not known if occupants would purposely open fenestrations during a near design-level-event, designers should consider the effect that opening of the largest operable door or window would have on an EHPA's enclosure classification. If the enclosure classification changes due to the opening, the designer should consider possible mitigation measures (e.g., partially enclosed design classification, construction of air-trap/air-lock vestibules, access-limiting measures, etc.)

G.2.3 Foundations and Floor Slabs. The finished floor elevation of EHPA's and their essential life safety and emergency support systems are required to be elevated above the maximum storm surge inundation elevation associated with a Category 4 hurricane event. In multistory or elevated buildings, this applies to the lowest EHPA floor. The storm surge elevations are identified by reviewing the most current Sea, Lake and Overland Surges from Hurricanes (SLOSH) studies and atlases.

Some computer-based SLOSH models are also available, such as SLOSH Display Program version 1.65i. These models list several elevations based upon "hurricane scenario," which includes storm intensity, forward speed and track. It is not uncommon for a site located in a Category 4 or 5 storm surge zone to be listed as "dry" for all but a few scenarios, and could possibly be dry for all scenarios due to elevation of local grade. The EHPA design requirement is the highest elevation listed for a Category 4 hurricane event.

The Division's minimum recommendation for rainfall flood design elevation for EHPA's is ASCE *Flood Resistant Design and Construction* (ASCE 24) Classification Category IV, Essential Facility. That is, the minimum elevation must be at least two (2) feet above base flood elevation (BFE) or a community's Design Flood Elevation, whichever is greater. However, where determined, the lowest habitable EHPA floor elevation should be at or above the 500-year flood elevation.

G.2.4 Certifications. Board and emergency management agencies have often found that it is difficult, if not impossible, to document that a facility was designed and constructed to the EHPA criteria after the passage of time. Construction drawing notes often do not provide the required information, and building officials, design professionals-of-record, constructors, product manufacturers and providers, and other relevant agents move on to other projects. Maintaining a viable record to certify that a facility has been designed and constructed to meet the EHPA criteria is critical.

The following information is needed by emergency managers to document that a facility is an EHPA:

1. Statement that the wind design conforms to the provisions of the Public Shelter Design Criteria, Section 453.25, Florida Building Code with year of revision specified
2. Statement that the building or EHPA, as applicable, is capable of withstanding or exceeding wind loads according to ASCE 7 structural design criteria (this statement is essential for ARC planners)
3. Basic Wind Speed, mph
4. Wind Importance Factor (I); if applicable by standard or code in effect
5. Wind Exposure
6. Wind Directionality Factor (K_d)
7. Internal Pressure Coefficient (GC_{pi})
8. Provide documentation that walls, windows, doors, louvers, roofs, skylights, exhaust fans, rooftop air-conditioning equipment and other exterior components comply with ASTM E 1886 and E 1996, SSTD 12 or other applicable performance standards (e.g., FBC High Velocity Hurricane Zone testing protocols TAS 201, 202 and 203, etc.); documentation may include large missile impact product approval notice(s), certified lab test results, etc.
9. Floor plan drawing or image indicating location of EHPA portions of the facility; includes drawing or image indicating the entire facility when applicable

The documentation can be provided in the form of a certification statement letter or memorandum, or as a note page within the construction drawings of record. It is requested that the design professionals-of-record sign and seal the certification document(s), and forward the certification to the board, local emergency management agency and Division.

G.2.5 Observations from the 2004 and 2005 Hurricane Seasons. Following the 2004 and 2005 hurricane seasons, federal, state and local building code and mitigation assessment teams observed the types of damages found in the most heavily impacted areas of Florida. In general, the impacted EHPA's performed in a manner similar to other recently constructed light commercial facilities. That is, there were no observed structural failures but improvements were recommended for cladding integrity and weather protection. In particular, roof coverings, light metal exterior wall coverings, soffits and door hardware damage led to rainwater intrusion.

The following is a summary of selected recommendations from the federal Mitigation Assessment Team for critical/essential facilities (which includes shelters):

1. To better ensure adequate performance of shelters, the 40 mph increase in base wind speed should be required and not just "highly recommended."

2. Ensure that appropriate ASCE 7 Exposure Categories are selected during the design process; ensure full wind loads are calculated in open areas (Exposure C) where reductions are not appropriate.
3. The minimum windborne debris impact criteria should be increased from the current SSTD 12/ASTM E 1996 Level D (9 lb 2"x4" @ 34 mph) basic protection to the essential facility Level E (9 lb 2"x4" @ 55 mph) enhanced protection.
4. Assure code compliance through increased enforcement of construction inspection requirements, such as the Threshold Inspection Law.
5. It was recommended that designers calculate loads on building envelope cladding and components (including soffits), roof coverings and roof top equipment and specify/detail adequate attachments to resist the loads. A minimum safety factor of 2.0 is typically recommended. Note that industry or manufacturers' recommendations may be higher than 2.0.
6. For roof coverings, a secondary weather-resistant underlayment is recommended to improve rainwater intrusion protection.
7. Designers should clearly indicate on the construction drawings the area of the facility that was designed to function as the high wind shelter or hardened core area.
8. Perform follow-up inspections every five years or after a hurricane to identify interior moisture damage that may affect the structure or building envelope.
9. It was recommended that designers consider and use guidance found in FEMA P-361 and *Design Guide for Improving School Safety in Earthquakes, Floods and High Winds* (FEMA 424).

To view the full Hurricane Charley and Hurricane Ivan Mitigation Assessment Team Reports, please see FEMA 488 and 489 at the following web addresses:

http://www.fema.gov/media-library/assets/documents/905

http://www.fema.gov/media-library/assets/documents/2338?id=1569

Also, FEMA 424 can be viewed at the following web address:

http://www.fema.gov/media-library/assets/documents/5264

There was one finding during the 2004 hurricane season that is related to human behavior that could increase the vulnerability of shelters. About forty (40) percent of the sites reported that persons (evacuees, shelter staff and managers, and public safety officials) purposely opened windows and doors during hurricane conditions. The reasons for the openings varied from admittance of late arrivals, to smoking, distribution of food and other supplies, fresh air ventilation, and equipment repairs or maintenance. Buildings are designed to be enclosed structures, and openings of possibly as small as one (1) percent of a building's exterior envelope can cause internal pressures that exceed original design loads. This essentially negates the benefits of any added window, door or other envelope protection.

In less intense storms, such as the conditions experienced by most of the shelters in 2004, the effects caused by the openings were minimal, with occupants experiencing only minor atmospheric pressure changes and a temporary, but pronounced, creaking of lightweight roof decks (e.g., metal). However, when doors were opened on building sides perpendicular to or opposite the

windward facing walls, the doors occasionally were pulled open violently by suction forces. This may have damaged some doors making them impossible to re-close, and in one case may have broken a door window pane. For additional findings specific to occupied hurricane evacuation shelters during the 2004 season, please see Chapter 5, Performance of Public Shelters during the 2004 Hurricane Season, of the *2005 Shelter Retrofit Report.* The *2005 Shelter Retrofit Report* can be viewed at the following web address:

http://floridadisaster.org/documents/SRR05.pdf

G.2.6 Roof and Utility Enclosure Rainfall Drainage. The EHPA criteria requires that roof drain systems be sized for normal use (i.e., 100-year, 1-hour rainfall design per FBC—Plumbing, Figure 1106.1), and when applicable also required to have additional emergency overflow capacity. The Division recommends that where drainage confining roof perimeter construction or parapets are present, that at a minimum the secondary (emergency) roof drains or scuppers be designed for an eight (8) inch, 1-hour rainfall rate. This is approximately a 2,000-year, 1-hour recurrence rainfall rate for Florida, so a low probability event. A rainfall design rate of 8 inches per hour is also consistent with ICC 500 standards for Florida.

The Division also recommends that utility, mechanical, electric and plumbing equipment enclosures with open or screen roofs provide similar emergency rainfall drainage capacity at or near floor or ground level.

G.3 Location and Site Requirements

G.3.1 Emergency Access. EHPA's are required to have at least one major means of access for emergency vehicles that is above the 100-year floodplain. However, this requirement may be impractical in some areas due to generally low-lying topography.
Therefore, this requirement can be waived by the board with concurrence of the local emergency management agency or the Division. A potential EHPA with access routes below the 100-year floodplain may be subject to isolation due to hurricane rainfall flooding, and should be reviewed as a potential exemption request per section 2.2.1 of this Plan.

G.3.2 Landscaping and Parking. Landscaping around the EHPA must be designed to preserve safety and emergency access. Trees must not conflict with overhead or underground utilities, including electricity, telecommunications, potable and wastewater, natural gas, etc. Trees, utility poles or other tall structures are required to be located to avoid lay-down or impact hazard for the EHPA and its occupants. The Division recommends that trees located within 50 feet of an EHPA be limited to trunk diameters that do not exceed about six (6) inches at maturity. This recommended standoff distance will prevent medium-size trees from inflicting battering damage to EHPA roofs, walls, windows and doors and reduce the potential for entry and egress door blockage.

Trees that exceed 12 inch trunk diameters may cause most of the lay-down impact damage to buildings. Therefore, the Division recommends that trees that typically exceed 12 inches in diameter at maturity should be located with a standoff distance of more than 100 feet from their base to the closest potential impact point of an EHPA's outside perimeter wall; preferably a standoff distance of more than 115 feet. However, due to their relatively greater height potential, pine trees (e.g., Slash, Spruce, Shortleaf, Longleaf, Loblolly, etc.) should be located with a standoff distance of more than 125 feet from the EHPA; preferably a standoff distance of more than 140 feet.

Structures, equipment and other objects within 300 feet of the EHPA's perimeter should be anchored to avoid generating large windborne, falling or roll-over debris. Vehicles must be parked more than 50 feet from the perimeter of the EHPA during hurricane conditions.

G.3.3 Rainfall Drainage. The civil designer may also want to consider the potential for exceptionally high rainfall rates that will exceed normal site drainage design standards. The following are select maximum single-day (24 hour) rainfall records for locations in Florida:

Pensacola – 11.68 inches
Crestview – 11.44 inches
Apalachicola – 10.67 inches
Tallahassee – 8.86 inches
Jacksonville – 6.33 inches
Yankeetown – 38.7 inches (Florida Record)
St. Petersburg – 15.45 inches
Tampa – 11.45 inches
Orlando – 8.19 inches
Melbourne – 27.65 inches
Fort Myers – 9.92 inches
West Palm Beach – 15.22 inches
Miami – 12.56 inches
Key West – 22.75 inches

Other extreme rainfall events of note for the United States:

Alvin, TX (1979) – 43 inches (NWS national record)
Dauphin Island, AL (1997) – 32.5 inches
Hackberry, LA (1962) – 22.0 inches
Americus, GA (1994) – 21.1 inches

During slow-moving large "wet" hurricanes, a 10 to 20 inch or greater rainfall event is possible. The designer should consider the impact that flooded parking lots, overwhelmed storm drains and retention ponds, closed basin ponding, riverine and sheetflow flooding, and dam or reservoir containment failure may have on an occupied EHPA.

An essential performance requirement of hurricane evacuation shelters is that they not be inundated by rainfall flooding. For design purposes, the Division recommends that the EHPA's civil designer consider the effects of an extraordinary event on the site drainage design. The designer should assume pre-hurricane saturated soil conditions and at-capacity drainage retention structures, then apply a hurricane-caused single-day rainfall event of about 30 inches. This is approximately a point maximum 2,000-year, 24-hour recurrence rainfall rate (1 sq.mi. basin) for most of Florida, so a low probability event.

G.4 Hurricane evacuation shelter Capacity

A minimum of fifty percent of the net square feet of certain types of rooms and spaces (referred to as "included spaces") of new educational facilities are required to be constructed to meet the EHPA criteria. The calculated EHPA capacity is used by board staff, emergency managers and design professionals to determine the shelter occupant capacity and infrastructure-related

requirements (potable water, toilets, hand washing sinks, parking, etc.) EHPA's may be located in a single large room or a combination of rooms, located on one or more floors, and possibly in more than one building. To begin the EHPA capacity calculation process, identify those rooms or spaces that are to be excluded. Section 453.25.3.1, FBC and s. 252.385(4)(b), Fla.Stat. serve as guides for identifying excluded space.

The following is a summary of the excluded spaces:

Excluded Spaces. Spaces such as mechanical, plumbing, electrical, telecommunication and information technology utility equipment rooms, storage rooms and closets, exterior/outside circulation and open corridors, restrooms and shower areas, kitchen and food preparation rooms, science rooms and labs, computer and information technology rooms and labs, vocational and industrial technology shop areas and labs, library and media rooms and labs, administrative office and support areas, record vaults, attics and crawl spaces.

Included Spaces. All other rooms and areas not listed as an excluded space.

To determine the net square feet of EHPA floor area, subtract the floor area square feet of excluded spaces from the gross square feet of the facility. The board, with the concurrence of the local emergency management agency or the Division may adjust the list of excluded/included spaces or the formula for calculation of design capacity.

Net usable floor area is defined as follows:

Net Usable Floor Area. Floor area of included spaces reduced to account for partitions and walls, columns, fixed or movable objects, furniture, equipment or other features that under probable conditions cannot be removed or stored during use as a hurricane evacuation shelter.

The following empirical reduction factors can be used to determine net usable floor area:

1. Reduce the gross floor area of assembly areas with concentrated furnishings or fixed seating by 50 percent. Examples are auditoriums, amphitheater classrooms, etc. To calculate a room's net usable floor area, multiply gross floor area by a **reduction factor (RF)** of 0.50.
2. Reduce the gross floor area of assembly areas with unconcentrated furnishings and without fixed seating by 35 percent. Examples are conference rooms, educational classrooms and skills labs, dining areas, band and music rooms, etc. To calculate a room's net usable floor area, multiply gross floor area by a RF of 0.65.
3. Reduce the gross floor area of assembly areas with open floors and without fixed seating by 15 percent. Examples are gymnasiums, dance floors, exhibition galleries, open multipurpose rooms, interior/inside circulation corridors and areas, etc. Retractable seating is not considered fixed seating. To calculate a room's net usable floor area, multiply gross floor area by a RF of 0.85.

A more comprehensive list of Department of Education room design codes, descriptions and RFs is available in Appendix H. Reduction values listed are empirical in that they are based upon large-scale typical conditions. Boards, local emergency management agencies and design professionals may adjust the empirical reduction factors to address site-specific conditions.

The capacity of an EHPA is calculated using 20 square feet per occupant. The FBC formula is as follows:

(Gross Floor Area, sq.ft. - ∑ Excluded Floor Areas, sq.ft.) / 20 = Occupant Capacity

To calculate occupant capacity based upon net usable floor area, the formula is:

∑ (Included Gross Floor Areas, sq.ft. x RF) / 20 = Usable Occupant Capacity

The designer should be aware that SpNS "client" occupant capacity is based upon 60 sq.ft. per client. The 60 sq.ft. includes an allowance for care-givers, medical staff, medical equipment and supplies, and a cot or bed. Therefore, no additional space allowance is required for these personnel, equipment or material.

In an emergency, on a short-term basis during hurricane conditions, the American Red Cross and emergency management officials may temporarily reduce the occupant floor area requirement to 15 square feet per occupant. This emergency contingency measure does not affect the EHPA criteria's requirement to use 20 square feet per occupant to calculate design capacity.

The designer should be aware that for adults and children with certain access or functional needs support services (FNSS), such as persons that need wheelchairs or scooters, lift equipment, service animal and/or personal assistance services, FEMA recommends a floor space allocation of 100 sq.ft. For design or planning purposes, the larger accessibility accommodation space may apply to one (1) of every 10 occupants. In some cases the 100 sq.ft. may be shared with a caregiver (i.e., 50 sq.ft. for two of 10 occupant spaces). Additional guidance on space layout considerations can be found in Appendix F and at the following web address:

http://www.ct.gov/demhs/lib/demhs/space__layout_considerations.pdf

To estimate the number of design occupants assuming one (1) FNSS space per 10 occupants, the designer can replace the 20 sq.ft. allowance of the EHPA criteria with 28 sq.ft. Assuming that FNSS space is shared by a caregiver, replace 20 sq.ft. with 26 sq.ft. These will reduce the facility's occupant capacity to account for the additional functional needs space. However, the EHPA criteria do not permit use of the larger design occupant allowance. Therefore, 20 sq.ft. should be used to calculate mechanical, electrical and plumbing related design features.

For planning and guidance purposes only, Table G-3 provides the Division's recommendations for calculating the number of occupants of both evacuation and extended duration shelter types. The floor area allowances apply to all sizes of shelters from small with design occupants of less than 50 to mega-shelters with thousands of occupants. The allowances also include additional accommodation space for persons needing FNSS. The definitions for the shelter types can be found in Appendix E, Glossary. To use Table G-3 (below), replace the code value of "20" in the Occupant Capacity formula(s) given previously with values shown in Table G-3. The

calculated occupant capacity will provide the number of occupants with a reduction for FNSS spaces. As an example, a risk evacuation shelter with a total of 10,000 gross sq.ft. of floor area and 0.85 reduction factor, replace the "20" with "26" as follows:

(10,000 x 0.85) / 26 = 326 occupant spaces

Of the 326 total occupant spaces, two of 10 (or 2:10) are based on 50 sq.ft. each (65 FNSS spaces), and the remaining eight of 10 (8:10) are based on 20 sq.ft. each (261 code minimum/standard spaces).

Table G-3. Florida Shelter Occupant Space Calculation Recommendations with FNSS for Dormitory Areas

Type of Shelter (Duration of Shelter Occupancy)	Floor Area Minimum Recommendation, average net usable sq.ft.	Floor Area Range, average net usable sq.ft.
General Population		
Risk Evacuation Shelter (0-72 hours)	26	22-46
Host Evacuation Shelter (0-72 hours)	26	26-46
Standard/Short Term Shelter (72 hours - 2 weeks)	42	42-64
Long Term Shelter (more than 2 weeks)	60	60-82
Special Needs Population		
Risk Evacuation Shelter (0-72 hours)	60	60-82
Host Evacuation Shelter (0-72 hours)	60	60-82
Standard/Short Term Shelter (72 hours - 2 weeks)	80	80-100
Long Term Shelter (more than 2 weeks)	100	100-120

G.5 Plumbing and Sanitation

It is essential that the EHPA remain a safe and sanitary environment. The plumbing and sanitary provisions of the EHPA criteria are primarily based upon the American Red Cross's *Mass Care Standards and Indicators, Version 011-072209* (Mass Care Standards). Mass care Standards requires that emergency shelters, regardless of cause(s) necessitating their need, provide a minimum level of service.

In general, support systems for toilets, sinks and other essential water distribution and disposal systems are required to be capable of supplying water and containing waste for the design capacity of the EHPA. Plumbing and valve systems of toilets and sinks within the EHPA may be designed for conversion to emergency operation to meet the required demand. The method selected to achieve the required level of performance is at the discretion of the board, design professionals and emergency management agencies.

It should be noted that EHPA plumbing and sanitation design requirements should not be reduced for pre-designated SpNS facilities. SpNS client capacity is calculated based on 60 sq.ft. per client instead of the 20 sq.ft. used for the general population. This may give the appearance of a reduced design load for critical support systems. However, the 60 sq.ft. includes an allowance for care-givers and the additional medical service staff necessary for operating the shelter. Therefore the plumbing and sanitary systems must be designed to accommodate a loading condition similar to that found in general population shelters.

G.5.1 Potable Water. Neither the EHPA criteria nor Mass Care Standards specify a minimum potable water requirement. ICC 500 design standards require a minimum of one (1) gallon of potable water per person for all uses (i.e., drinking water, hygiene, food preparation, etc.) The Division doesn't recommend a potable water design of less than one (1) gallon (3.8 liters or 0.133 cubic feet) per person for all uses. A minimum of two quarts (1/2 gallon or 2 liters) per person should be for drinking water purposes. As an example, an EHPA with a design occupant capacity of 250 persons (includes both evacuees and management staff) will require a minimum of 250 gallons (950 liters or 33.3 cubic feet) of potable water. This is a relatively small quantity of water if it must be extended for more than 24 hours, so conservation measures are recommended (i.e., identify and provide access to sources for clean non-potable water for toilet flushing and certain other hygiene activities, etc.)

It should be noted that both the shelter environment (temperature and humidity) and physical condition/health of evacuees (e.g., age, diet, medications, pregnancy/nursing, etc.) can significantly affect drinking water needs. Table G-4 can be used as a guide to estimating minimum drinking water needs as shelter temperatures rise. A potable water design of 3 to 7 gallons per occupant per day may be more appropriate.

Table G-4. Estimate of Minimum Daily Drinking Water Needs in Unconditioned Shelters

Shelter's Daily Mean Temperature, °F	Daily Drinking Water Needs[1], quarts (liters)		
	Normal Demand (normal activity or at rest)	Moderate Demand (moderate work load)	High Demand (hard work load)
70 °F	2 (1.9)	3 (2.8)	5 (4.7)
80 °F[2]	3.5 (3.3)	5 (4.7)	7.5 (7.1)
90 °F[3]	6 (5.7)	8.5 (8.0)	11.5 (10.9)
100 °F[4]	8.5 (8.0)	12 (11.4)	15 (14.2)

[1] - Source: *Medical Aspects of Harsh Environments, Volume 1*, 2001, Chapter 1 Introduction to Heat-related Problems in Military Operations, Figure 1-3
[2] - Caution: 80 - 90°F Fatigue possible with prolonged exposure
[3] - Extreme Caution: 90 - 105°F Heat exhaustion possible with prolonged exposure
[4] - Danger: 105°F or higher; Heat stroke possible with prolonged exposure

The potable water can be provided by on-site wells or water treatment package plants, stored in a permanent flow-through tank, or less preferably, stored in temporary containers or bladders. Temporary systems will be infrequently used (possibly less than once a year) they will require regular maintenance to ensure operational viability. Large volume tanks must also be monitored to assure sufficient chlorine residual. Systems that rely on pumps or other electro-mechanical equipment or devices will require a back-up power supply.

In some circumstances, an alternative to large volume tank storage, and its associated plumbing and valve systems, is on-demand delivery of potable water. If this approach is used, the EHPA will need a delivery and protected storage area for the bulk water. This approach has significant benefits and drawbacks. The benefits are minimal (or no) construction costs associated with this approach, and there are no recurring maintenance or contamination concerns. The drawbacks are logistical and financial: who is going to be responsible for ordering, receiving,

distributing, paying for, and if necessary, disposing of the water in time of need? These issues are not show-stoppers, but require a written agreement to assure operational viability.

G.5.2 Toilets and Sinks. The EHPA criteria require one (1) toilet and one (1) sink per 40 occupants of design capacity. The toilets and sinks can be fixed units incorporated into the EHPA during design and construction, or less preferably portable/temporary toilets and hand washing facilities. The EHPA required toilets and sinks are not in addition to those required for normal school occupancy, and are to be included in the overall facility fixture count. Generally there are sufficient quantities of toilets and sinks required for normal school occupancy capacity to meet the EHPA requirement. The designer will need to consider placement of the fixtures such that the needs of both the normal school occupancy and the EHPA are served.

EHPA required toilets and sinks must be available (or reachable) from within the protected area, or must be available via a protected passageway that meets the EHPA criteria. Portable chemical toilets may also require separation from occupied spaces and circulation of fresh air. Also, consider how a portable toilet will be delivered, serviced and removed from the facility. This may require a larger door opening than normal and the use of removable door frame mullions.

For adults with certain access or functional needs, low-profile toilets, sinks and grab bars installed in elementary classroom water closets and toilet rooms may be inadequate. The Division recommends that the designer incorporate permanent or adaptive structural and fixture size elements that can safely and expediently accommodate adults with functional or access needs. The adult toilets may also be incorporated into the design by adding adult restrooms into EHPA floor plan.

The American Red Cross' *Mass Care Standards and Indicators* (Mass Care Standards) recommends that on average there be one toilet and hand washing sink per 20 persons.

G.5.3 Showers. Given that the EHPA criteria assume only an 8-hour occupancy, normal shower requirement can be relaxed. Therefore, showers are not an EHPA code requirement. However, boards and design professionals should consider that in a post-hurricane recovery environment, Mass Care Standards normally require one (1) shower per 25 occupants.

G.5.4 Wastewater. The EHPA criteria require that the plumbing system be capable of containing (or otherwise disposing of) the wastewater generated by the design capacity occupant load. During the 2004 and 2005 hurricane seasons, about 30 percent of occupied hurricane evacuation shelters experienced wastewater/sewage back-up into the facility. It is critical that wastewater be prevented from backing up into the EHPA. This can be accomplished through installation of storage tanks, a wastewater treatment package plant, or other suitable measure.

For those facilities with an on-site wastewater lift station, the lift station reservoir can be sized to meet the storage requirement. The lift station reservoir must be set at a lower elevation than the EHPA to prevent back-up of wastewater into the shelter area. The lift station should also be equipped with a standby back-up power system to support drainage into the local utility system. As a contingency, the stored wastewater can be drained and properly disposed of by a mobile pump unit.

Instead of a tank, an alternative is to utilize the waste drain pipe as the storage container. In this method, the pipe is over-sized to accommodate the required volume of waste on the facility side

of the back-flow preventer. Wastewater and sewage back-up is normally caused by continued disposal (or flushing) of wastewater into the drain pipe system after the utility side back-flow preventer has closed; the drain pipe has insufficient capacity for continued use. With an over-sized drain pipe, the waste is stored in the pipe until the utility system is restored. A drainage connection or fixture should be incorporated into the drain pipe to accommodate expedient drainage and proper disposal by a mobile pump unit.

The Division recommends that the wastewater system design be based upon a ratio of 1.5 gallons wastewater for every gallon of potable water. In addition to the basic potable water design volume, the 1.5:1 ratio provides extra capacity for solid materials and introduction of non-potable water into the system (e.g., toilet flushing). Thus, based upon a minimum recommended potable water load of 1 gallon per occupant, the minimum recommended wastewater capacity is 1.5 gallons (0.2 cubic feet) per occupant. The Division recommends that the reservoir capacity be based upon a 24-hour design occupant capacity instead of the 8-hour design capacity (i.e., 3 to 5 gallons per occupant instead of 1 gallon). As an example, an EHPA with a design occupant capacity of 250 persons (includes both evacuees and management staff) will require a minimum wastewater storage capacity of 1,250 gallons (166.7 cubic feet).

G.5.5 Garbage Disposal. The Division recommends that janitorial service areas be located within the EHPA, and provisions be considered for temporary storage or disposal of solid wastes and garbage. Mass Care Standards recommends one (1) 30 gallon waste receptacle/container with lid and trash bags for every 10 persons.

G.6 Electrical Standby and Emergency Power System

Back-up and emergency power provisions are an important feature for hurricane evacuation shelters. Utility electrical power can be disrupted for a few hours to several days (or possibly weeks) following arrival of hurricane conditions. During a utility electrical power outage, EHPA's must remain a safe and sanitary environment. Life-safety systems must continue to function, minimal lighting must be provided to support safe movement, security and emergency egress needs, and adequate ventilation provided to maintain a habitable environment.

At a minimum, the EHPA criteria require installation of an standby electrical power system with an outlet for coupling to a back-up portable generator. The EHPA criteria do not require installation of a permanent electrical power generator, but rely on emergency battery power and "pre-wiring" the facility's electrical system to accept expeditious and safe installation of a compatible portable generator. Therefore, the minimum EHPA requirement relies upon on-demand delivery of a compatible electrical power generator. If the on-demand approach is used, the EHPA will need a protected storage area for the generator.

The on-demand approach has significant benefits and drawbacks. The benefits are reduced initial construction costs, minimal recurring maintenance expenses and no fuel-degradation concerns. The drawbacks are logistical and financial: who is going to be responsible for ordering, receiving, installing, maintaining, refueling, redeploying and paying for the generator in time of need? Very few, if any, boards or local government agencies possess an adequate quantity of compatible portable generators to meet EHPA requirements. Also, state and federal agencies do not normally deploy portable emergency power generators until at least 24 hours after impact by hurricane conditions, and in many cases it may be more than 72 hours. These issues are not show-

stoppers, but require emergency power provisions be included in board and local facilities and emergency operations plans (and possibly a written agreement) to assure operational viability.

Boards and design professionals must note that state and local emergency management agencies are under no statutory or code obligation to provide portable emergency generator(s) for EHPA's. Boards and design professionals are responsible for developing an appropriate EHPA emergency power capability to maintain a safe and sanitary environment for at least the required 8-hour minimum design occupant capacity.

For facilities that are pre-designated to serve as SpNS facilities, the Division strongly recommends that the standby emergency power system be designed to accommodate additional branch circuits to support medical equipment, refrigeration of medical supplies and air-conditioning of client occupied areas. These special requirements may exceed basic EHPA design criteria, but post-construction retrofitting to accommodate these requirements is often difficult and costly. The Division strongly encourages the designer to coordinate with local emergency management and county health department staff when designing a facility that is pre-designated as a SpNS.

G.7 Emergency Management Considerations

G.7.1 Shelter Manager's Office. The EHPA criteria require that an administrative office be identified for shelter management use and included within the EHPA. The office is required to have provisions for standby power, lighting, communications, main fire alarm control panel and storage for the manager's equipment. Communications may include both internal (within the EHPA) and external (to outside shelter support agencies) communications.

The EHPA criteria do not specify a minimum floor area requirement for shelter management needs. ARC 4496 recommends that shelter management functions be based upon a minimum of 40 square feet per staff person. Therefore, the Division recommends that the shelter manager's office be a minimum of 40 square feet of net floor area, and an additional 40 square feet per assistant manager(s), communications person(s) and equipment storage. As an example, assuming the shelter manager and assistant manager occupy a single office area with equipment storage, the shelter manager's office should have about 120 net square feet of floor area (i.e., 40 sq.ft. x 3 management functions = 120 sq.ft.) The communications person(s) may be located in adjacent spaces.

G.7.2 Signage. A sign with a floor plan drawing or image indicating the EHPA's location and perimeter boundaries or limits is required to be mounted in the shelter manager's office.

G.7.3 Food Service. The EHPA criteria states that "where feasible, include counter tops for food distribution functions in the EHPA's." Mass Care Standards requires that emergency shelters have a feeding area and a means of storing, preparing and distributing food (and concurrently drinking water). Ideally, for sanitation purposes, emergency managers and shelter support agencies prefer to have feeding-related areas separate from general population areas. However, to maximize utilization of the EHPA's floor area during hurricane conditions, this preference can be relaxed and feeding areas occupied by a shelter population.

Mass Care Standards normally requires 2,000 Calories per person per day (about three pounds of unprepared food). However, on a temporary basis, a hurricane evacuation shelter's

feeding services can be relaxed. For design purposes, the EHPA planning assumption is 8-hours, or one-third (1/3) of a day. Therefore, at a minimum the Division recommends that boards and design professionals plan for distribution of about one-third of the ARC's daily requirement, or about 667 Calories (about one pound per person). This minimum feeding requirement can be met via "bag lunches" or heavy snacks. As an example, an EHPA with a design occupant capacity of 250 persons (includes both evacuees and management staff) should have a minimum of 250 pounds of food. Given that bag lunches and one-quart containers of bottled water can be distributed from a movable table (or straight out of bulk delivery boxes or containers), a fixed counter top may not be required; thus the "where feasible" preface in the code.

G.7.4 Supplemental Space Allocations. Ideally, in addition to shelter management space needs, adequate space should be set aside within the EHPA for registration, emergency medical care, safety and fire considerations, janitorial services and sanitation. For post-hurricane recovery shelter operations, Mass Care Standards also recommends addition of space for storage of bulk food and supplies, food preparation and feeding, separate rooms for general population, elderly and families with small children, sleeping areas, recreation, and possible storage of occupants' belongings.

G.7.5 Parking. EHPA vehicle parking areas may be paved or unpaved, but must be located more than 50 feet from perimeter of the EHPA. This doesn't apply to temporary emergency vehicle, occupant/client or supply drop-off parking that will be vacated during hurricane conditions.

G.8 Americans with Disabilities Act Shelter Requirements. The Americans with Disabilities Act (ADA) requires that public shelters provide equal access and service to all persons. For guidance reviewing accessibility of existing facilities as emergency shelters please see Appendix L.

Additional guidance can be found in *Guidance on Planning for Integration of Functional Needs Support Services in General Population Shelters* (FEMA, November 2010), which can be found at the following web address:

http://www.fema.gov/pdf/about/odic/fnss_guidance.pdf

G.9 Comparison of Florida's EHPA to the International Code Council's ICC 500. The ICC 500 was published in August, 2008 and updated October 2014 and is a consideration for design of hurricane evacuation shelters. Florida's EHPA code provisions were considered during preparation of ICC 500 so there are many design consistencies between them. However, the objective of the ICC storm shelter committee was to ensure a high-degree of safety for shelter occupants. Therefore, wind design provisions are based on a near-ultimate hurricane event. Table G-5 provides a limited comparison of Florida's EHPA criteria and ICC 500.

Table G-5. Comparison of Florida Building Code's Public Shelter Design Criteria (EHPA) and the International Code Council's ICC 500 Hurricane Shelter Standard

Design Criteria	**2014 FBC—Building (5th Edition), EHPA**	**ICC 500—2014, Hurricane Provisions**
2014 Florida Building Code--Building **References**	Section 453.25	Section 423
Design Occupancy Period	8 hours	24 hours

Table G-5. Comparison of Florida Building Code's Public Shelter Design Criteria (EHPA) and the International Code Council's ICC 500 Hurricane Shelter Standard		
Design Criteria	**2014 FBC— Building (5th Edition), EHPA**	**ICC 500—2014, Hurricane Provisions**
Net Usable Floor Space per Occupant	20 sq.ft. all adults and children five years or older	20 sq.ft. for standing, seated or wheelchair; 40 sq.ft. for bedridden
Sanitary Facilities	Toilets 1:40 Handwashing 1:40	Toilets 1:50 Handwashing 1:100
Potable Water Capacity, minimum quantity	No Capacity Given	1 Gallon per Occupant
Waste Water Capacity, minimum quantity	No Capacity Given	1.5 Gallons per Occupant
Flood Design Criteria	ASCE 7 and ASCE 24	ASCE 7, Section 5 and ASCE 24
Storm Surge Flood Elevation (if applicable)	EHPA must be located outside Category A, B and C evacuation zones. EHPA floor slab must be elevated above maximum inundation of a Category 4 hurricane.	No limitation on location inside a hurricane evacuation zone. Lowest shelter floor slab must be elevated above the maximum modeled hurricane category, including coastal wave effects (i.e., Category 5 hurricane for Florida).
Inland Rainfall Flooding	ASCE 24, Risk Category IV Classification. Floor slab of lowest finished floor must be elevated above base flood elevation (BFE) plus two (2) feet or local design flood elevation (DFE), whichever is higher.	Lowest floor slab of occupied shelter must be elevated to the higher of the following elevations at the site: 1) flood having 0.2% annual chance; 2) flood elevation having 1% annual chance plus two (2) feet; 3) flood elevation corresponding to the highest recorded flood elevation if a flood hazard study has not been conducted in the area; and 4) minimum flood elevation of the lowest floor required by the authority having jurisdiction.
Rain Loads and Drainage	Roofs shall have adequate slope and drains for normal use and shall have emergency overflow; (100-year recurrence interval for both normal and emergency overflow; no additional rainfall rate capacity given)	ICC 500, Section 303.1 (100-year recurrence interval plus 3 inches per hour normal drains, and 100-year plus 6 inches per hour for secondary/emergency overflow; ranges from total of 10.3 to 11 inch emergency overflow capacity for Florida)
Hurricane Wind Load Design	ASCE 7	ASCE 7 with design wind speeds per ICC 500 Chapter 3
Minimum Design Wind Speed	ASCE 7, Risk Category IV map wind speed (1,700 year recurrence)	ICC 500 Hurricane Wind Speed Map (10,000 year recurrence)
Importance Factor, *I*	Not Applicable	Not Applicable
Directionality Factor, K_d	0.85	1.00
Optional Increase in Design Wind Speed	ASCE 7 Risk Category IV, plus 40 mph recommended; recommendation adjusts design wind speed upwards to approx. 5,000 to 10,000+ year recurrence	Not Applicable

Table G-5. Comparison of Florida Building Code's Public Shelter Design Criteria (EHPA) and the International Code Council's ICC 500 Hurricane Shelter Standard		
Design Criteria	**2014 FBC— Building (5th Edition), EHPA**	**ICC 500—2014, Hurricane Provisions**
	interval	
Exposure Classification	ASCE 7	ASCE 7 Exposure C (Exposure B may be applied to MWFRS in certain situations)
Enclosure Classification	ASCE 7	ASCE 7 with largest door or window on each side individually considered an opening (breach)
Load Combinations	ASCE 7	ASCE 7 with ICC 500 Section 304 provisions
Building Enclosure Missile Impact Criteria (all exterior surfaces)	ASTM E-1886 and ASTM E-1996 (large missile Level D: 9 lb 2x4 @ 34 mph, or Level E: 9 lb 2x4 @ 55 mph as applicable)	ASTM E 1886 and E 1996 with modifications (large missile: 9 lb 2x4 Vertical Surface=0.5*Design Wind Speed, and Horizontal Surface=0.1*Design Wind Speed)
Impact Testing Procedures	ASTM E-1886 and ASTM E-1996 or SBC/SSTD 12	ASTM E 1886 or E 1996 as modified by ICC 500 Chapter 8
Weather Protection (rainwater intrusion)	Exterior envelope and air intakes/vent assemblies must meet design wind loads; Roof covering to be specified and designed to meet wind uplift forces and meet ASTM and Factory Mutual Standards	All exterior components and cladding assemblies and roof coverings must be designed and installed to meet design wind loads
Fire Separation	Applicable Code	Applicable Code or 2-hour fire resistance rating of walls/assemblies, whichever is greater, that separate shelter areas from the host building
Natural Ventilation	S. 453.13.8.1, FBC—Building (5 % of internal floor area as net free open area equivalent in exterior walls of rooms on perimeter of building, with exceptions)	12 net sq.in. of vent area openings per occupant
Mechanical Ventilation	2 cfm per sq.ft. of EHPA floor area	Ventilation rate determined by applicable building code for normal use of space (typically 15 cfm per occupant)
Emergency Lighting	FBC	1 foot-candle (11 lux)
Standby Lighting	10 foot-candles (100 lux)	10 foot-candles (110 lux)
Standby and Emergency Power System(s), minimum loads	Required; minimum loads: emergency lighting, illuminated exit signs, fire protection, alarm and sprinkler systems, ventilation for health/safety purposes, and four (4) electrical receptacles in shelter manager's office	Required; minimum loads: critical branch lighting and life safety systems, and select HVAC circuits as required by authority having jurisdiction

Table G-5. Comparison of Florida Building Code's Public Shelter Design Criteria (EHPA) and the International Code Council's ICC 500 Hurricane Shelter Standard		
Design Criteria	**2014 FBC— Building (5th Edition), EHPA**	**ICC 500—2014, Hurricane Provisions**
Standby Electric Power System, optional loads	1. Remainder of the school's campus security lighting (building and site); 2. Additional ventilation circuits; 3. Intercom system; 4. Food storage equipment; 5. Additional electric receptacles; and 6. Additional non-life safety systems deemed necessary by local officials for health, welfare and safety of the public during occupancy	Not Applicable
Permanently installed Standby Electric Generator	Not Required	Not Required
Special Inspections	EHPA's are designated "threshold buildings" and subject to special structural and electrical inspections	Community shelters are subject special inspections and structural observations
Peer Review	Not Required	Construction documents for community shelters with design occupancies greater than 50 are subject to peer review

Appendix H:

Hurricane Evacuation Shelter Net Usability Multiplication Factor Estimates for Florida Department of Education Facilities

Hurricane Evacuation Shelter Net Usability Multiplication Factor Estimates for Florida Department of Education Facilities				
Design Code Number	**Design Description**	**Minimum Room sq.ft.**	**Normal sq.ft. per student**	**Net Usability Factor**
00001	Primary Classroom (K-3)	600	40	0.50
00002	Intermediate Class (4-8)	600	39	0.65
00003	Senior High Class (9-12)	600	32	0.65
00004	Intermediate Class	608	32	0.65
00005	Elementary Resource	416	32	0.65
00007	Elementary Foreign Language Lab	608	32	0.65
00008	Elementary Math Skills Lab	608	32	0.65
00009	Elementary Social Studies Lab	608	32	0.65
00010	Primary Skills Lab (K-3)	600	49	0.65
00011	Intermediate/Middle Skills Lab (4-8)	600	39	0.65
00012	Senior High Skills Lab (9-12)	600	32	0.65
00015	Elementary Open Plan Area	1,920	32	0.65
00021	Middle/Jr High Resource	416	32	0.65
00023	Middle/Jr High Foreign Lang Lab	608	32	0.65
00024	Middle/Jr High Math Skills Lab	608	32	0.65
00025	Middle/Jr High Social Studies Lab	608	32	0.65
00026	Middle/Jr High Lang Arts Labe	608	32	0.65
00029	Middle/Jr High Art Lab	630	42	0.50
00030	Primary Open Plan (K-3)	1,368	38	0.65
00031	Intermediate/Middle Open Plan (4-8)	1,408	32	0.65
00032	Senior High Open Plan (9-12)	1,600	27	0.65
00035	Senior High Class	513	27	0.65
00036	Senior High Resource	416	32	0.65
00038	Senior High Foreign Lang Lab	512	32	0.65
00039	Senior High Math Skills Lab	512	32	0.65
00040	Resource Room	290	29	0.65
00041	Senior High Lang Arts Lab	512	32	0.65
00047	Senior High Art Lab	530	53	0.50
00050	Art – Elementary	600	37	0.50
00051	Art – Middle	630	42	0.50
00052	Art – Senior High	530	53	0.50
00060	ESE Special Class (Part Time)	650	65	0.50
00061	ESE Part-time	600	65	0.50
00062	ESE Full-Time	600	95	0.50
00063	ESE Vocational	600	95	0.50
00064	ESE PT/OT Lab	600	0	0.50
00065	ESE Resource	290	95	0.50
00075	Vocal Music Class (Middle-Sr High)	513	57	0.65
00076	Band Class (Middle-Sr High)	1,200	35	0.65
00077	Orchestra Class (Middle-Sr High)	513	57	0.65
00078	General Music Class (Middle-Sr High)	518	37	0.65
00079	Guitar Lab (Middle-Sr High)	518	37	0.65
00110	PE Multipurpose Room (Middle-SrH)	800	0	0.85
00111	Jr High Gym	1	0	0.85
00112	Sr High Gym	1	0	0.85
00113	Gym Seating	1	0	0.85
00118	PE Wrestling Room	402	0	0.85
00119	PE Gymnastics & Dance	420	0	0.85
00340	Dining Area	1	0	0.65
00360	Auditorium	1	0	0.50
00361	Multipurpose Room (Dining)	1	0	0.65
00363	Stage	1	0	0.65
00370	Lobby	1	0	0.85
00700	Inside Circulation	1	0	0.85
00840	Vocational Related Classroom	256	32	0.65

Appendix I:

Department of Education Memorandum on “Hurricane Shelters in New Educational Facilities,” dated October 31, 2001

FLORIDA DEPARTMENT OF EDUCATION

CHARLIE CRIST
COMMISSIONER

Wayne V. Pierson
Deputy Commissioner for
Planning, Budgeting and Management

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October 31, 2001

DPBM No.: 02-42

MEMORANDUM

TO: District School Superintendents, Community College Presidents, and Educational Facilities Planners

FROM: Wayne V. Pierson

SUBJECT: Hurricane Shelters in New Educational Facilities

The Department of Education has again been asked to reiterate the requirement that all construction of new educational facilities, including appropriate core facility additions to existing buildings, incorporate enhanced hurricane protection areas in their design. Section 235.26(8)(a), F.S., states the following:

> "A facility, or an appropriate core facility area within a facility, for which a design contract is entered into subsequent to the effective date of the inclusion of the public shelter criteria in the code must be built in compliance with the amended code unless the facility or a part thereof is exempted from using the new shelter criteria due to its location, size, or other characteristics by the applicable board with the concurrence of the applicable local emergency management agency or the Department of Community Affairs. Any educational facility located or proposed to be located in an identified category 1, 2, or 3 evacuation zone is not subject to the requirements of this subsection. If the regional planning council region in which the county is located does not have a hurricane evacuation shelter deficit, as determined by the Department of Community Affairs, school districts within the planning council region are not required to incorporate the public shelter criteria into their construction of educational facilities."

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The State Requirements for Educational Facilities, Section 7(24)(a), and the Florida Building Code, Section 423(24)(a), provides:

> "New educational facilities for school boards and community college boards, unless specifically exempted by the board with the written concurrence of the applicable local emergency management agency or the Department of Community Affairs (DCA), shall have appropriate core facility areas designed as Enhanced Hurricane Protection Areas (EHPAs) in compliance with this section."

New educational facilities have been interpreted to mean "new construction," as defined in Section 1.2(56), SREF, and Section 423(4)(h), Florida Building Code, which includes additions to existing buildings. There are three exceptions: 1) if the new work is specifically exempted in writing by the applicable local emergency management agency, 2) if the new building(s) or addition is located in a category 1, 2, or 3 evacuation zone, and 3) if the local regional planning council region does not have a shelter deficit. The exception for one shelter within a three-mile radius no longer exists.

It is imperative that shelter space be provided in all appropriate new educational facilities so that the deficit in shelter space can be eliminated. In this light, you are encouraged to work with your county emergency management office prior to or during the development of a project to identify appropriate shelter space. The additional cost directly associated to the Enhanced Hurricane Protection Area (EHPA) is deducted from the total construction cost when applying for a SIT award.

Please note that the October 2001 Audit Report Number 02-055 for Hurricane Shelters and Grant Management for the Department of Community Affairs has identified a lapse in enforcement of the shelter criteria by school districts and community colleges. Of the 164 constructed or newly planned facilities examined by the auditor, one-third did not comply with the required shelter requirements.

WVP/jhi

The 2001 Florida Statutes

Title XVI
Education

Chapter 235
Educational Facilities

View Entire Chapter

235.26 State uniform building code for public educational facilities construction.--

(1) UNIFORM BUILDING CODE.--By July 1, 2001, a uniform statewide building code for the planning and construction of public educational and ancillary plants by district school boards and community college district boards of trustees shall be adopted by the Florida Building Commission within the Florida Building Code, pursuant to s. 553.73. Included in this code must be flood plain management criteria in compliance with the rules and regulations in 44 C.F.R. parts 59 and 60, and subsequent revisions thereto which are adopted by the Federal Emergency Management Agency. It is also the responsibility of the department to develop, as a part of the uniform building code, standards relating to:

(a) Prefabricated facilities or factory-built facilities that are designed to be portable, relocatable, demountable, or reconstructible; are used primarily as classrooms; and do not fall under the provisions of ss. 320.822-320.862. Such standards must permit boards to contract with the Department of Community Affairs for factory inspections by certified building code inspectors to certify conformance with applicable law and rules. The standards must comply with the requirements of s. 235.061 for relocatable facilities intended for long-term use as classroom space, and the relocatable facilities shall be designed subject to missile impact criteria of s. 423(24)(d)(1) of the Florida Building Code when located in the windborne debris region.

(b) The sanitation of educational and ancillary plants and the health of occupants of educational and ancillary plants.

(c) The safety of occupants of educational and ancillary plants as provided in s. 235.06, except that the firesafety criteria shall be established by the State Fire Marshal in cooperation with the Florida Building Commission and the department and such firesafety requirements must be incorporated into the Florida Fire Prevention Code.

(d) Accessibility for children, notwithstanding the provisions of s. 553.512.

(e) The performance of life-cycle cost analyses on alternative architectural and engineering designs to evaluate their energy efficiencies.

1. The life-cycle cost analysis must consist of the sum of:

a. The reasonably expected fuel costs over the life of the building which are required to maintain illumination, water heating, temperature, humidity, ventilation, and all other energy-consuming equipment in a facility; and

b. The reasonable costs of probable maintenance, including labor and materials, and operation of the building.

2. For computation of the life-cycle costs, the department shall develop standards that must include, but need not be limited to:

a. The orientation and integration of the facility with respect to its physical site.

b. The amount and type of glass employed in the facility and the directions of exposure.

c. The effect of insulation incorporated into the facility design and the effect on solar utilization of the properties of external surfaces.

d. The variable occupancy and operating conditions of the facility and subportions of the facility.

e. An energy-consumption analysis of the major equipment of the facility's heating, ventilating, and cooling system; lighting system; and hot water system and all other major energy-consuming equipment and systems as appropriate.

3. Life-cycle cost criteria published by the Department of Education for use in evaluating projects.

4. Standards for construction materials and systems based on life-cycle costs that consider initial costs, maintenance costs, custodial costs, operating costs, and life expectancy. The standards may include multiple acceptable materials. It is the intent of the Legislature to require district school boards to comply with these standards when expending funds from the Public Education Capital Outlay and Debt Service Trust Fund or the School District and Community College District Capital Outlay and Debt Service Trust Fund and to prohibit district school boards from expending local capital outlay revenues for any project that includes materials or systems that do not comply with these standards, unless the district school board submits evidence that alternative materials or systems meet or exceed standards developed by the department.

It is not a purpose of the Florida Building Code to inhibit the use of new materials or innovative techniques; nor may it specify or prohibit materials by brand names. The code must be flexible enough to cover all phases of construction so as to afford reasonable protection for the public safety, health, and general welfare. The department may secure the service of other state agencies or such other assistance as it finds desirable in recommending to the Florida Building Commission revisions to the code.

(2) CONFORMITY TO FLORIDA BUILDING CODE AND FLORIDA FIRE PREVENTION STANDARDS REQUIRED FOR APPROVAL.--

(a) Except as otherwise provided in paragraph (b), all public educational and ancillary plants constructed by a district school board or a community college district board of trustees must conform to the Florida Building Code and the Florida Fire Prevention Code, and such plants are exempt from all other state building codes; county, municipal, or other local amendments to the Florida Building Code and local amendments to the Florida Fire Prevention Code; building permits, and assessments of fees for building permits, except as provided in s. 553.80; ordinances; road closures; and impact fees or service availability fees. Any inspection by local or state government must be based on the Florida Building Code and the Florida Fire Prevention Code. Each board shall provide for periodic inspection of the proposed educational plant during each phase of construction to determine compliance with the state requirements for educational facilities.

(b) A district school board or community college district board of trustees may conform with the Florida Building Code and the Florida Fire Prevention Code and the administration of such codes when constructing ancillary plants that are not attached to educational facilities, if those plants conform to the space size requirements established in the codes.

(c) A district school board or community college district board of trustees may not approve any plans for the construction, renovation, remodeling, or demolition of any educational or ancillary plants unless these plans conform to the requirements of the Florida Building Code and the Florida Fire Prevention Code. Each district school board and community college district board of trustees may adopt policies for delegating to the superintendent or community college president authority for submitting documents to the department and for awarding contracts subsequent to and consistent with board approval of the scope, timeframes, funding source, and budget of a survey-recommended project.

(3) ENFORCEMENT BY BOARD.--It is the responsibility of each district school board and community college district board of trustees to ensure that all plans and educational and ancillary plants meet the standards of the Florida Building Code and the Florida Fire Prevention Code and to provide for the enforcement of these codes in the areas of its jurisdiction. Each board shall provide for the proper supervision and inspection of the work. Each board may employ a chief building official or inspector and such other inspectors, who have been certified pursuant to chapter 468,

and such personnel as are necessary to administer and enforce the provisions of this code. Boards may also utilize local building department inspectors who are certified by the department to enforce this code. Plans or facilities that fail to meet the standards of the Florida Building Code or the Florida Fire Prevention Code may not be approved. When planning for and constructing an educational, auxiliary, or ancillary facility, a district school board must use construction materials and systems that meet standards adopted pursuant to subparagraphs (1)(e)3. and 4. If the planned or actual construction of a facility deviates from the adopted standards, the district school board must, at a public hearing, quantify and compare the costs of constructing the facility with the proposed deviations and in compliance with the adopted standards and the Florida Building Code. The board must explain the reason for the proposed deviations and compare how the total construction costs and projected life-cycle costs of the facility or component system of the facility would be affected by implementing the proposed deviations rather than using materials and systems that meet the adopted standards. The provisions of this subsection do apply to educational, auxiliary, and ancillary facility projects commenced on or after July 1, 1999.

(4) ENFORCEMENT BY DEPARTMENT.--As a further means of ensuring that all educational and ancillary facilities hereafter constructed or materially altered or added to conform to the Florida Building Code standards or Florida Fire Prevention Code standards, each district school board and community college district board of trustees that undertakes the construction, renovation, remodeling, purchasing, or lease-purchase of any educational plant or ancillary facility, the cost of which exceeds $200,000, may submit plans to the department for approval.

(5) APPROVAL.--

(a) Before a contract has been let for the construction, the department, the board, or the board's authorized review agent must approve the phase III construction documents. A board may reuse prototype plans on another site, provided the facilities list and phase III construction documents have been updated for the new site and for compliance with the Florida Building Code and the Florida Fire Prevention Code and any laws relating to firesafety, health and sanitation, casualty safety, and requirements for the physically handicapped which are in effect at the time a construction contract is to be awarded.

(b) In reviewing plans for approval, the department, the board, or its review agent as authorized in s. 235.017, shall take into consideration:

1. The need for the new facility.

2. The educational and ancillary plant planning.

3. The architectural and engineering planning.

4. The location on the site.

5. Plans for future expansion.

6. The type of construction.

7. Sanitary provisions.

8. Conformity to Florida Building Code standards.

9. The structural design and strength of materials proposed to be used.

10. The mechanical design of any heating, air-conditioning, plumbing, or ventilating system. Typical heating, ventilating, and air-conditioning systems preapproved by the department for specific applications may be used in the design of educational facilities.

11. The electrical design of educational plants.

12. The energy efficiency and conservation of the design.

13. Life-cycle cost considerations.

14. The design to accommodate physically handicapped persons.

15. The ratio of net to gross square footage.

16. The proposed construction cost per gross square foot.

17. Conformity with the Florida Fire Prevention Code.

(c) The board may not occupy a facility until the project has been inspected to verify compliance with statutes, rules, and codes affecting the health and safety of the occupants. Verification of compliance with rules, statutes, and codes for nonoccupancy projects such as roofing, paving, site improvements, or replacement of equipment may be certified by the architect or engineer of record and verification of compliance for other projects may be made by an inspector certified by the department or certified pursuant to chapter 468 who is not the architect or engineer of record. The board shall maintain a record of the project's completion and permanent archive of phase III construction documents, including any addenda and change orders to the project. The boards shall provide project data to the department, as requested, for purposes and reports needed by the Legislature.

(6) REVIEW PROCEDURE.--The Commissioner of Education shall cooperate with the Florida Building Commission in addressing all questions, disputes, or interpretations involving the provisions of the Florida Building Code which govern the construction of public educational and ancillary facilities, and any objections to decisions made by the inspectors or the department must be submitted in writing.

(7) BIENNIAL REVIEW AND UPDATE; DISSEMINATION.--The department shall biennially review and recommend to the Florida Building Commission updates and revisions to the provisions of the Florida Building Code which govern the construction of public educational and ancillary facilities. The department shall publish and make available to each district school board and community college district board of trustees at no cost copies of the state requirements for educational facilities and each amendment and revision thereto. The department shall make additional copies available to all interested persons at a price sufficient to recover costs.

(8) EDUCATION FACILITIES AS EMERGENCY SHELTERS.--

(a) The Department of Education shall, in consultation with boards and county and state emergency management offices, include within the standards to be developed under subsection (1) public shelter design criteria that shall be incorporated into the Florida Building Code. The new criteria must be designed to ensure that appropriate core facility areas in new educational facilities can serve as public shelters for emergency management purposes. A facility, or an appropriate core facility area within a facility, for which a design contract is entered into subsequent to the effective date of the inclusion of the public shelter criteria in the code must be built in compliance with the amended code unless the facility or a part thereof is exempted from using the new shelter criteria due to its location, size, or other characteristics by the applicable board with the concurrence of the applicable local emergency management agency or the Department of Community Affairs. Any educational facility located or proposed to be located in an identified category 1, 2, or 3 evacuation zone is not subject to the requirements of this subsection. If the regional planning council region in which the county is located does not have a hurricane evacuation shelter deficit, as determined by the Department of Community Affairs, school districts within the planning council region are not required to incorporate the public shelter criteria into their construction of educational facilities.

(b) By January 31, 1996, and by January 31 every even-numbered year thereafter, the Department of Community Affairs shall prepare and submit a statewide emergency shelter plan to the Governor and the Cabinet for approval. The plan must identify the general location and square footage of existing shelters, by regional planning council region, and the general location and square footage of needed shelters, by regional planning council region, in the next 5 years. Such plan must identify the types of public facilities which should be constructed to comply with emergency shelter criteria and must recommend an appropriate, adequate, and dedicated source of funding for the additional cost of constructing emergency shelters within these public facilities. After the approval of the plan, a board may not be required to build more emergency shelter space than identified as needed in the plan, and decisions pertaining to exemptions pursuant to paragraph (a) must be guided by the plan.

(9) LOCAL LEGISLATION PROHIBITED.--After June 30, 1985, pursuant to s. 11(a)(21), Art. III of the State Constitution, there shall not be enacted any special act or general law of local application which proposes to amend, alter, or contravene any provisions of the State Building Code adopted under the authority of this section.

History.--s. 926, ch. 19355, 1939; CGL 1940 Supp. 892(312); s. 12, ch. 29754, 1955; s. 10, ch. 59-371; s. 117, ch. 65-239; s. 1, ch. 67-106; ss. 15, 18, 19, 35, ch. 69-106; s. 1, ch. 69-300; s. 1, ch. 70-196; s. 6, ch. 70-399; s. 9, ch. 74-374; s. 1, ch. 77-280; s. 15, ch. 77-458; s. 1, ch. 78-290; s. 1, ch. 79-71; s. 103, ch. 79-400; s. 9, ch. 80-414; ss. 27, 50, 52, ch. 81-223; ss. 10, 14, ch. 82-240; s. 1, ch. 83-163; s. 3, ch. 83-224; s. 1, ch. 84-349; ss. 16, 26, 27, ch. 85-116; ss. 1, 4, ch. 86-1; s. 1, ch. 88-202; s. 5, ch. 89-226; s. 15, ch. 89-278; s. 13, ch. 90-172; s. 11, ch. 90-241; s. 55, ch. 90-288; s. 2, ch. 90-320; s. 169, ch. 92-279; s. 55, ch. 92-326; s. 6, ch. 93-211; s. 6, ch. 94-292; ss. 18, 35, ch. 95-269; ss. 6, 11, ch. 95-341; s. 145, ch. 97-190; s. 6, ch. 97-265; s. 30, ch. 97-384; s. 16, ch. 99-329; s. 2, ch. 2000-140; s. 11, ch. 2000-141; s. 20, ch. 2001-61; s. 34, ch. 2001-186.

Appendix J:

Hurricane Shelter Demand Study Table

2016 Statewide Emergency Shelter Plan - Appendix J (1)

County	Regional Planning Council (RPC) #	2016 Estimated Population	2016 Estimated Vulnerable Population	2016 Estimated General Population Shelter Demand (w/o PSN)	2016 Estimated PSN Shelter Demand	2016 Estimated Total Shelter Demand	2021 Estimated Population	2021 Estimated Vulnerable Population	2021 Estimated General Population Shelter Demand (w/o PSN)	2021 Estimated PSN Shelter Demand	2021 Estimated Total Shelter Demand
Bay	1	170,155	122,274	6,443	1,712	8,155	180,301	129,032	6,533	1,736	8,269
Escambia*	1	283,615	138,463	10,680	879	11,559	288,543	140,830	10,830	891	11,721
Holmes	1	18,404	8,664	991	121	1,112	18,859	8,881	1,005	123	1,128
Okaloosa*	1	185,601	120,944	5,927	100	6,027	192,363	125,065	6,010	101	6,111
Santa Rosa*	1	158,339	97,159	5,875	150	6,025	174,030	106,739	5,957	152	6,109
Walton*	1	58,367	64,236	1,807	150	1,957	65,745	71,866	1,832	152	1,984
Washington	1	22,741	11,887	1,530	166	1,696	23,879	12,492	1,551	168	1,720
Calhoun	2	12,998	7,029	1,019	91	1,110	13,534	7,330	1,032	92	1,124
Franklin	2	10,072	10,726	319	214	533	10,075	10,726	325	218	544
Gadsden	2	45,410	23,403	3,272	632	3,904	46,217	23,833	3,360	649	4,009
Gulf	2	12,487	11,565	532	208	740	12,588	11,650	542	212	753
Jackson	2	41,933	20,384	1,757	143	1,900	42,092	20,456	1,769	144	1,913
Jefferson	2	13,359	7,955	664	278	942	13,810	8,233	687	288	975
Leon * / (incl: Franklin & Wakulla)	2	269,255	101,878	3,987 / (5,150)	600 / (914)	4,587 / (6,064)	282,161	106,679	3,994 / (5,205)	612 / (932)	4,606 / (6,137)
Liberty	2	7,175	4,576	467	275	742	7,608	4,863	495	292	787
Wakulla*	2	28,510	26,157	844	100	944	30,959	28,376	886	105	991
Alachua*	3	238,737	86,279	11,864	1,200	13,064	250,888	90,633	11,923	1,206	13,129
Bradford	3	23,578	12,579	1,287	167	1,454	24,246	12,927	1,304	169	1,473
Columbia	3	65,080	37,090	4,661	438	5,099	69,342	39,565	4,716	443	5,159
Dixie	3	15,712	14,239	1,832	142	1,974	16,650	15,091	1,850	143	1,994
Gilchrist	3	16,357	11,140	1,123	76	1,199	17,448	11,899	1,131	77	1,207
Hamilton	3	11,945	7,637	1,038	76	1,114	12,321	7,880	1,048	77	1,125
Lafayette	3	6,758	3,989	609	13	622	7,110	4,187	611	13	624
Levy	3	41,067	31,519	4,184	19	4,203	43,676	33,469	4,203	19	4,222
Madison	3	17,354	9,863	1,259	67	1,326	17,463	9,911	1,268	67	1,335
Marion*	3	341,495	152,006	18,166	1,000	19,166	375,339	167,040	18,257	1,005	19,262
Suwannee	3	43,624	27,798	3,872	92	3,964	46,497	29,656	3,885	92	3,977
Taylor	3	19,852	13,904	1,713	63	1,776	20,354	14,261	1,721	63	1,784
Union	3	10,954	6,354	708	43	751	11,403	6,631	713	43	756

2016 Statewide Emergency Shelter Plan - Appendix J (2)												
County	Regional Planning Council (RPC) #	2016 Estimated Population	2016 Estimated Vulnerable Population	2016 Estimated General Population Shelter Demand (w/o PSN)	2016 Estimated PSN Shelter Demand	2016 Estimated Total Shelter Demand	2021 Estimated Population	2021 Estimated Vulnerable Population	2021 Estimated General Population Shelter Demand (w/o PSN)	2021 Estimated PSN Shelter Demand	2021 Estimated Total Shelter Demand
Baker	4	25,883	15,824	2,618	79	2,697	27,885	17,035	2,631	79	2,710
Clay*	4	202,150	12,646	11,281	250	11,531	225,320	141,034	11,326	251	11,577
Duval	4	869,452	608,903	40,802	4,262	45,064	909,304	636,499	41,088	4,292	45,379
Flagler	4	106,550	65,532	6,227	328	6,555	126,994	78,083	6,258	330	6,588
Nassau	4	78,216	69,283	5,318	208	5,526	84,516	74,015	5,334	209	5,543
Putnam*	4	72,167	50,577	4,748	100	4,848	72,956	51,162	4,748	100	4,848
St.Johns	4	210,363	171,515	11,325	515	11,840	243,841	198,527	11,359	517	11,876
Brevard	5	559,617	436,050	31,469	2,090	33,559	578,251	448,228	31,563	2,096	33,660
Lake	5	318,731	157,337	24,960	1,414	26,374	358,674	173,328	25,334	1,435	26,770
Orange	5	1,158,367	322,349	27,952	3,800	31,752	1,264,675	348,911	28,184	3,832	32,016
Osceola	5	341,625	102,722	10,151	660	10,811	384,434	113,397	10,202	663	10,865
Seminole	5	429,024	114,342	11,445	750	12,195	447,143	118,873	11,466	751	12,217
Sumter	5	100,372	46,236	9,786	32	9,818	119,711	55,143	9,818	32	9,850
Volusia	5	507,703	378,448	39,238	363	39,601	530,518	392,058	39,485	365	39,850
DeSoto*	6	31,048	17,444	3,159	120	3,279	31,809	17,872	3,244	123	3,368
Hardee*	6	25,911	11,424	2,167	36	2,203	26,173	11,654	2,210	37	2,247
Highlands	6	99,762	40,655	11,553	285	11,838	105,328	42,879	11,634	287	11,921
Okeechobee	6	37,985	38,562	7,342	1,273	8,615	39,465	40,177	7,584	1,315	8,899
Polk	6	623,024	249,671	42,257	3,246	45,503	680,880	272,882	42,806	3,288	46,095

2016 Statewide Emergency Shelter Plan - Appendix J (3)												
County	Regional Planning Council (RPC) #	2016 Estimated Population	2016 Estimated Vulnerable Population	2016 Estimated General Population Shelter Demand (w/o PSN)	2016 Estimated PSN Shelter Demand	2016 Estimated Total Shelter Demand	2021 Estimated Population	2021 Estimated Vulnerable Population	2021 Estimated General Population Shelter Demand (w/o PSN)	2021 Estimated PSN Shelter Demand	2021 Estimated Total Shelter Demand
Citrus	7	143,281	93,622	13,314	60	13,374	153,717	100,388	13,374	60	13,434
Hernando	7	180,421	114,021	11,565	44	11,609	198,885	125,653	11,609	44	11,653
Hillsborough*	7	1,315,280	656,691	52,316	2,927	55,243	1,416,740	708,670	52,515	2,938	55,453
Manatee*	7	331,525	279,263	24,060	500	24,560	346,507	290,557	24,228	504	24,732
Pasco	7	525,777	300,864	31,294	966	32,260	589,336	324,138	31,569	975	32,544
Pinellas*	7	926,633	648,427	42,178	4,000	46,178	970,354	680,020	42,621	4,042	46,663
Charlotte	8	164,310	170,253	12,089	1,277	13,366	172,821	183,937	12,180	1,287	13,466
Collier	8	341,820	365,673	29,964	2,011	31,975	377,689	425,928	30,129	2,022	32,151
Glades	8	11,529	9,813	1,594	19	1,613	12,155	10,018	1,597	19	1,616
Hendry	8	36,544	24,618	3,285	204	3,489	37,765	24,419	3,312	206	3,518
Lee*	9	673,346	714,097	71,410	3,285	74,695	762,808	814,330	71,681	3,297	74,979
Sarasota	8	389,847	337,559	29,826	2,971	32,797	415,885	342,963	30,088	2,997	33,086
Indian River	9	147,042	70,044	5,805	501	6,306	157,894	74,518	5,950	514	6,464
Martin	9	145,939	82,900	5,331	400	5,731	154,302	89,956	5,448	409	5,857
Palm Beach	9	1,364,715	478,192	29,754	2,520	32,274	1,427,508	498,017	30,111	2,550	32,661
St. Lucie	9	311,163	114,025	7,833	2,851	10,684	347,558	125,649	8,029	2,922	10,951
Broward	10	1,684,970	614,111	28,299	1,277	29,576	1,734,323	636,082	28,356	1,280	29,635
Miami-Dade	10	2,430,896	1,672,963	97,855	2,717	100,572	2,542,978	1,764,727	98,149	2,725	100,874
Monroe*	10	79,146	79,147	2,590	461	3,051	81,971	81,972	2,593	462	3,055
Total:		**19,193,068**	**10,927,500**	**902,590**	**58,017**	**960,607**	**20,474,574**	**11,793,900**	**909,255**	**58,608**	**967,863**
2016 BEBR Projection		19,789,625			2021 BEBR Projection		21,236,667				
Difference		-596,557			Difference		-762,093				

Appendix K

Guidance for Selection of Impact Resistant Constructed Wall and Roof Assemblies

K.0 Structural Missile Impact Criteria

The public shelter design criteria, which are also known as the EHPA criteria, require that exterior walls and roofs prevent perforation or penetration by windborne debris. Laboratory testing is the primary means of determining if a specific assembly (i.e., exterior and interior surface cladding, structural components and configurations, material properties, connections, etc.) is capable of satisfying the applicable performance criteria. Certain types of commonly used non-proprietary materials and constructed assemblies have been demonstrated through laboratory testing to satisfy the required debris impact performance criteria. Constructed assemblies that are approved for use without further testing by the authority having jurisdiction are commonly referred to as "deemed to comply." The deemed to comply method is recognized in section 1626.4, *Florida Building Code—Building*. Appendix K has been prepared to assist designers with selection of constructed wall and roof assemblies that have been tested and satisfy applicable large missile impact criteria.

Please note that the Department of Education has stated that roof assemblies must be tested and certified to meet ASTM E-1886 and ASTM E-1996 or SSTD 12 as an assembly. This applies to district school board and community college facilities. With the exception of code prescriptive concrete deck assemblies, "deemed to comply" assemblies will not be approved by the Department of Education. Therefore, "deemed to comply" assemblies are only applicable to other state and local agency facilities.

The Florida Department of Education's list of approved roof decks can be found at the following web address (Publications, Roof Decks on Public Hurricane Shelters):

http://www.fldoe.org/edfacil/planreview/pdf/roofdecksMemo.pdf

K.1 Methodology

To begin the assembly selection process, it is critical to determine the design wind velocity of the EHPA. Higher design wind speeds (and their associated windfield) impart higher velocities to entrained debris. Higher wind velocities can also lift and accelerate larger and heavier debris objects, as well as extend the distance downwind that an object can travel. As a planning guide, unanchored, inadequately anchored or poorly constructed large debris can be generated from sources within a distance of about 300 feet of proposed or constructed EHPA(s). Smaller debris down to the size of gravel can be generated from sources out to a range of possibly 1,500 feet. Research considered by the ICC storm shelter standard committee indicates that objects lifted by wind forces undergo rapid acceleration and achieve velocities of between 40 and 80 percent of the entraining wind field's velocity. Thus the lower bound for representative missiles requires large missile test velocities of at least 40 percent of the proposed design wind speed.

The industry-recognized straight wind (which include hurricane) large missile that is used for impact testing is a nine pound sawn lumber 2x4 (9 lb 2x4). The industry-recognized 9 lb 2x4 large missile is also the missile required to satisfy the EHPA code provisions. For those school districts that are interested in incorporating tornado protection into an EHPA construction project, national guidance currently recommends that the large missile be increased to a 15 pound sawn lumber 2x4 (15 lb 2x4). In addition to tornado applications, the Division also recommends increasing the large missile requirement to a 15 lb 2x4 for EHPA's that may be subjected to an unusual barrage of heavy debris (e.g., building materials and mechanical equipment).

Debris impact testing of wall and roof assemblies has generally been conducted using a limited number of specified conditions (e.g., 9 and 15 lb 2x4s propelled at 34, 50 or 55, 75 and 100 miles per hour). Many of the more robust materials and assemblies, such as reinforced concrete and solid-grouted masonry, have satisfied test requirements that are significantly more demanding than the EHPA code's minimum-large missile requirement of ASTM E-1996 or SSTD 12. Another factor considered by the Division is that current research indicates that an object's impact momentum, and not energy, provides the best correlation of test performance of a specified assembly when comparing missiles of different weights and velocities. Calculating the momentum associated with a published sample's impact test conditions permits the data to be converted to the industry standard straight wind 9 lb 2x4 missile. Impact momentum is calculated as follows: missile mass [weight (lb) / acceleration of gravity (32.2 ft/sec^2)] x missile velocity (ft/sec) = momentum (lb-sec); or:

$$\text{Momentum} = (W/g) \times v$$

It should be noted that in addition to momentum values, Tables K-1 and K-2 provide corresponding impact energy values to assist with conversion when momentum is not calculated but impact energy of a test is shown.

The following reference data sources were used to compile the list of assemblies given in Table K-3. Windborne Debris Impact Resistant Wall Assemblies, and Table K-4. Windborne Debris Impact Resistant Roof Assemblies:

1. *Large Wind Missile Impact Performance of Public and Commercial Building Assemblies*, Florida Agricultural and Mechanical University-Florida State University (FAMU-FSU) in cooperation with the University of Florida (UF), 2004
2. *Summary Report on Debris Impact Testing at Texas Tech University*, Texas Tech University (TTU), 2003
3. *A Summary Report on Debris Impact Resistance of Building Assemblies*, NIST/TTU Cooperative Agreement, Windstorm Mitigation Initiative, 2006
4. *Design and Construction Guidance for Community Shelters* (FEMA 361), Federal Emergency Management Agency, 2008

These reference sources can provide additional guidance on selection of suitable wall and roof assemblies for both hurricane and tornado shelters.

To match the existing data sources' test conditions with a practical range of corresponding design wind speeds, the Division consolidated the data into categories defined as "Levels of Protection." The test performance required to satisfy each level of protection is bounded by the respective level's highest hurricane design wind speed. As an example, Enhanced-B's design wind speed range is 161 to 190 miles per hour (mph), therefore the assembly must satisfy a laboratory missile test equal to a 9 lb 2x4 propelled at 75 mph (190 x 0.40 = 75).

The lowest level of protection, which is referred to by the Division as "Basic-D," is equal to the large missile test requirements of SSTD 12 and ASTM E 1996 Missile Level D (i.e., 9 lb 2x4 propelled at 34 mph). Basic-D is the minimum code requirement for EHPA walls and roofs. ASTM E 1996 also establishes a nominally higher large missile test missile defined as Level E, which increases the test velocity of the 9 lb 2x4 to 55 mph. For the purposes of this appendix, ASTM E 1996's Missile Level E is referred to as "Basic-E" as its performance is insufficient for ICC hurricane shelter standards. The reference sources used by the Division for preparation of this appendix do not provide test data specific to ASTM E 1996's Missile Level E.

The Division's Enhanced-A level of protection corresponds to design wind speeds of 141 to 159 mph (3-second gust). The Enhanced-A missile criteria is equal to a 9 lb 2x4 propelled at 65 mph. The 141 to 159 mph design wind speed range is also consistent with a Saffir-Simpson Scale hurricane Category 3 (i.e., 135 mph to 159 mph, 3-second gust).

The Division's Enhanced-B level of protection corresponds to design wind speeds of 160 to 189 mph (3-second gust). The Enhanced-B missile criteria is equal to a 9 lb 2x4 propelled at 75 mph. Conveniently, the 9 lb 2x4 propelled at 75 mph test missile has approximately the same impact momentum as the Department of Energy's recommended straight wind missile criteria, which is a 15 lb 2x4 propelled at 50 mph (15 lb 2x4 @ 50 mph). The 15 lb 2x4 @ 50 mph is a relatively common enhanced performance test so there are several wall and roof assemblies that have been demonstrated to satisfy its performance criteria. The 160 to 189 mph design wind speed range is also consistent with a Saffir-Simpson hurricane Category 4 (i.e., 160 mph to 189 mph, 3-second gust).

The Enhanced-C level of protection exceeds the EHPA's minimum design wind speed range, and includes hurricane design wind speeds of 190 to 225 mph. Design wind speeds in this range are consistent with a Saffir-Simpson Scale hurricane Category 5. Enhanced-E levels of protection are consistent with tornado missile test criteria established in ICC 500, FEMA 361 and other national guidance publications for EF4 and EF5 tornadoes.

It should be noted that Tables K-1 and K-3 provide criteria for exterior envelope vertical surfaces, such as walls. Exterior envelope surfaces that are inclined less than 30 degrees from horizontal are considered horizontal surfaces and Tables K-2 and K-4 apply. For the purposes of this appendix, the missile velocity requirement for horizontal surfaces is assumed to be 67 percent of that required for the respective vertical surface. This is consistent with tornado missile test criteria found in ICC 500, FEMA 361 and other national guidance publications. This is conservative since hurricane missile requirements for horizontal surfaces may only be 25 percent of that required for vertical surfaces, but negligible data is available for such low impact criteria. Also, weak to moderate tornadoes and other isolated wind disturbances can be embedded in hurricanes, which can cause severe local impacts. Therefore, the use of the tornado missile percent of design wind velocity for horizontal surfaces of hurricane shelters is not exceptionally conservative.

K.2 Selection Of Wall Or Roof Assemblies

With the type of wind event (straight or tornado wind) and design wind speed established, the designer or specifying authority can select an appropriate windborne debris impact level of protection that best suits performance expectations. The levels of protection categories simplify the selection of appropriate wall and roof assemblies to match the EHPA's design wind speed. As an example, for an EHPA with a hurricane design wind speed of 170 mph the representative missile's lower bound velocity is equal to 40 percent of the design wind speed, or 68 mph (170 x 0.40 = 68). Instead of searching for test results specific to a 9 lb 2x4 propelled at 68 mph (9 lb 2x4 @ 68 mph), the designer or specifying authority can select the level of protection applicable to 170 mph from Table K-1 (for vertical surfaces), which is an "Enhanced-B" level of protection; i.e., design wind speed between 160 and 189 mph. The Enhanced-B determination will also concurrently apply to the building's horizontal surfaces, such as roofs (i.e., 9 lb 2x4 @ 50 mph)

With the level of protection determined for both vertical and horizontal surfaces, the designer or specifying authority then selects a wall and roof assembly from Tables K-3 and K-4, respectively, that satisfies the minimum impact momentum resistance criteria. Tables K-3 and K-4 provide the following information:

Column 1 (left-most column) – A wall/roof number for reference purposes

Column 2 – Assembly Type, such as wood, metal, CMU/masonry, reinforced concrete, etc; light wood and metal stud framing is included under wood assembly type, and brick masonry over sheathing material and light wood or metal framing is also included under wood assembly type

Column 3 – Assembly description, which includes inside and outside sheathing materials (if any) and nominal dimensions, reinforcement and connections as applicable

Column 4 – Data source, which can be used as reference for additional information; the data sources are:

1. *Large Wind Missile Impact Performance of Public and Commercial Building Assemblies,* Florida Agricultural and Mechanical University-Florida State University (FAMU-FSU) in cooperation with the University of Florida (UF), 2004
2. *Summary Report on Debris Impact Testing at Texas Tech University,* Texas Tech University (TTU), 2003
3. *Design and Construction Guidance for Community Shelters* (FEMA 361), Federal Emergency Management Agency, 2008

Column 5 – Level of Protection, which is subdivided into Basic-D (9 lb 2x4 @ 34 mph) and Enhanced-A (9 lb 2x4 @ 65 mph) through Enhanced-D (9 lb 2x4 @ 100 mph); Column 5 also lists the respective impact momentum associated with each level of protection

Under the listed levels of protection in Column 5, the specified test performance results are given as "Satisfied the Test Criteria" (S); "Failed the Test Criteria" (F); or "No Data/Not Determined" (ND). For assemblies that fail at a given level of protection, the higher performance requirements are listed as "---."

All dimensions are subject to conventional industry tolerances unless noted otherwise. The order of materials given in each assembly description is listed from the outside/outer most surface material (opposite the occupied shelter space), then inwards toward the inside finish surface material (if any). The missile impact is assumed to be on the outside surface. The order of installation is important, since some of the assemblies rely on flexure to resist (or absorb) the impact forces (e.g., for Wall No. 7, the 14 ga. expanded steel sheeting must be located between the double 2x4 wood stud supports on the inside of the assembly, and the two layers of 3/4 inch plywood located at the outer most surface).

Tables K-3 and K-4 provide nominal reinforcement and connection information. The building designer of record is responsible for determining all design loads and specifying all structural elements and connections in accordance with applicable material design standards, codes, rules, regulations and manufacturer's instructions. The Division strongly recommends that design wind pressures for components and cladding be calculated with wind exposure category = C.

Note that there is insufficient data available to establish a stand-alone Basic-E level of protection category. Therefore, in the absence of specific tests performed to satisfy Basic-E, the Division recommends use of the Enhanced-A level of protection category for design wind speeds that are less than 140 mph.

Table K-1. Windborne Debris Impact Criteria Comparisons for Vertical Surfaces

Level of Protection, Vertical Surface	Hurricane Design Wind Speed, mph (3-sec gust)	Missile Weight, lbs	Missile Velocity, mph	Missile Velocity, ft/sec	Energy, ft-lb	Momentum, lb-sec
Basic-D	85 or less	9	34	50	349	14
Basic-E	86-140	9	50	74	765	21
Basic-E	86-140	9	55	80	894	22
Enhanced-A	141-159	9	60	88	1,082	25
Enhanced-A*	**141-159**	**9**	**65**	**95**	**1,261**	**27**
Enhanced-B	160-189	9	70	103	1,483	29
Enhanced-B*	**160-189**	**9**	**75**	**110**	**1,691**	**31**
Enhanced-C	190-225	9	80	117	1,913	33
Enhanced-C	190-225	9	85	125	2,184	35
Enhanced-C*	**190-225**	**9**	**90**	**132**	**2,435**	**37**
Enhanced-D	226-255	9	95	139	2,700	39
Enhanced-D*	**226-255**	**9**	**100**	**147**	**3,020**	**41**
Enhanced-C	190-225	15	50	74	1,275	34
Enhanced-C	190-225	15	55	80	1,491	37
Enhanced-D	226-255	15	60	88	1,804	41
Enhanced-E	EF3 Tornado	15	85	125	3,639	58
Enhanced-E*	**EF4 & 5 Tornado**	**15**	**100**	**147**	**5,033**	**68**

*-Denotes missile impact criteria (weight and velocity) selected to represent the specified level of protection.

Table K-2. Windborne Debris Impact Criteria Comparisons for Horizontal Surfaces

Level of Protection, Horizontal Surface**	Hurricane Design Wind Speed, mph (3-sec gust)	Missile Weight, lbs	Missile Velocity, mph	Missile Velocity, ft/sec	Energy, ft-lb	Momentum, lb-sec
Basic-D***	85 or less	9	23	34	162	10
Basic-E***	86-140	9	33	48	322	13
Basic-E***	86-140	9	37	54	408	15
Enhanced-A	141-159	9	40	57	454	16
Enhanced-A*	**141-159**	**9**	**44**	**65**	**590**	**18**
Enhanced-B	160-189	9	47	69	665	19
Enhanced-B*	**160-189**	**9**	**50**	**74**	**765**	**21**
Enhanced-C	190-225	9	54	79	872	22
Enhanced-C	190-225	9	57	84	986	23
Enhanced-C*	**190-225**	**9**	**60**	**88**	**1,082**	**25**
Enhanced-D	226-255	9	64	94	1,235	26
Enhanced-D*	**226-255**	**9**	**67**	**98**	**1,342**	**27**
Enhanced-C	190-225	15	33	48	537	22
Enhanced-C	190-225	15	37	54	679	25
Enhanced-D	226-255	15	40	57	757	27
Enhanced-E	EF3 Tornado	15	57	84	1,643	39
Enhanced-E*	**EF4 & 5 Tornado**	**15**	**67**	**98**	**2,237**	**46**

*-Denotes missile impact criteria (weight and velocity) selected to represent the specified level of protection.
**-Horizontal surface impact loading velocity is based on tornado factor of 0.67 of vertical surface velocity.
***-SSTD 12, ASTM E 1886 and E 1996 and the structural requirements of Section 423.25.4, FBC do not permit a reduction in basic missile test velocity due to an assembly's horizontal surface orientation.

Table K-3. Windborne Debris Impact Resistant Wall Assemblies								
Wall No.	**Assembly Type**	**Assembly Description**	**Data Source**	**Level of Protection**				
				Basic D	**Enhanced A**	**Enhanced B**	**Enhanced C**	**Enhanced D**
				Minimum Required Impact Test Momentum, lb-sec				
				14	27	31	37	41
1	Wood	One layer ½" CD grade plywood on metal or 2"x4" wood studs	1	F	---	---	---	---
2	Wood	Stucco veneer on one layer ½" CD grade plywood, OSB, GWB or rigid insulation on metal or 2"x4" wood studs	1	F	---	---	---	---
3	Wood	One layer ¾" CD grade plywood on double 2"x4" wood studs (4"x4")	2	S	F	---	---	---
4	Wood	Two layers ¾" CD grade plywood on double 2"x4" wood studs (4"x4")	2	S	S	F	---	---
5	Wood	One layer ½" CD grade plywood with masonite siding on 2"x4" wood studs	2	ND	ND	F	---	---
6	Wood	One layer 1/2" CD grade plywood with 5/16" hardiboard siding, metal or 2"x4" wood studs	1	F	---	---	---	---
7	Wood	Two layers ¾" CD grade plywood, 14 ga. sheet steel liner and double 2"x4" wood studs (4"x4")	2	S	S	S	S	S
8	Wood	4" brick veneer, 1/2 inch CD grade plywood sheathing and 2"x4" wood studs at 24 in oc	1	S	S	F	---	---
9	Wood	4" brick veneer, 7/16 inch OSB sheathing on 2"x4" wood studs at 24 in oc	1	S	S	F	---	---
10	Wood	24 ga. or 26 ga. galv. metal siding on ½" CD grade plywood and 2"x4" wood stud	1	S	F	---	---	---

Table K-3. Windborne Debris Impact Resistant Wall Assemblies								
Wall No.	**Assembly Type**	**Assembly Description**	**Data Source**	**Level of Protection**				
				Basic D	**Enhanced A**	**Enhanced B**	**Enhanced C**	**Enhanced D**
				Minimum Required Impact Test Momentum, lb-sec				
				14	27	31	37	41
11	Wood	24 ga. or 26 ga. galv. metal siding on 7/16 inch OSB and 2”x4” wood stud	1	S	F	---	---	---
12	Metal	24 ga. or 26 ga. (50 ksi) galv. metal panels on Z 8.25, 14 ga. girts @ 5 feet oc	1	S	ND	ND	ND	ND
13	Metal	24 ga. (50 ksi) galv. metal panels on Z 8.0, 16 ga. girts @ 3 feet oc	1	S	S	S	ND	ND
14	Metal	24 ga. (80 ksi) galv. metal panels on Z 8.0, 16 ga. girts @ 3 feet oc	1	S	S	S	ND	ND
15	Metal	20 ga. or 22 ga. (50 ksi) metal panels on Z 8.25, 16 ga. girts @ 3 feet oc	1	S	S	S	ND	ND
16	CMU	8, 10 and 12” hollow cell CMU with #4 or larger rebar vertical reinforcement in grout filled cells as required for wind design; truss-type horiz reinforcement in joints @ 16” oc	1,2	S	F	---	---	---
17	CMU	8” structural pea-gravel grout filled CMU reinforced with #4 or larger rebar as required for wind design; truss-type horizontal reinforcement in joints @ 16” oc	2	S	S	S	S	ND
18	CMU	4” brick veneer with 8, 10 or 12” hollow cell CMU back-up reinforced with #4 or larger rebar as required for wind design; truss-type horizontal reinforcement in joints @ 16” oc	1	S	S	ND	ND	ND

Table K-3. Windborne Debris Impact Resistant Wall Assemblies								
Wall No.	**Assembly Type**	**Assembly Description**	**Data Source**	**Level of Protection**				
				Basic D	**Enhanced A**	**Enhanced B**	**Enhanced C**	**Enhanced D**
				Minimum Required Impact Test Momentum, lb-sec				
				14	27	31	37	41
19	CMU	6” structural pea-gravel grout filled CMU reinforced with #4 or larger rebar in every cell; truss-type horizontal reinforcement in joints @ 16” oc	2,3	S	S	S	S	S
20	CMU	8, 10 or 12” structural pea-gravel grout filled CMU reinforced with #4 or larger rebar in every cell; truss-type horizontal reinforcement in joints @ 16” oc	2,3	S	S	S	S	S
21	RC	2” pea-gravel concrete with #4 rebar at 12 inches oc each way	2	S	F	---	---	---
22	RC	3 inch pea-gravel concrete with #4 rebar at 12” oc each way	2	S	S	S	S	S
23	RC	4 to 6” pea-gravel concrete reinforced with #4 rebar at 12” oc each way	2	S	S	S	S	S
24	RC	5” pea-gravel concrete tilt-up wall panel reinforced with #5 rebar at 12” oc longitudinal and #3 rebar at 12” oc temperature reinforcement	1	S	S	ND	ND	ND
25	RC	6” pea-gravel concrete panel reinforced with #4 rebar at 12” oc each way	2,3	S	S	S	S	S
26	RC	6” pea-gravel concrete panel reinforced with #4 rebar at 24” oc each way	2	S	S	S	S	S

Table K-3. Windborne Debris Impact Resistant Wall Assemblies

Wall No.	Assembly Type	Assembly Description	Data Source	Level of Protection				
				Basic D	Enhanced A	Enhanced B	Enhanced C	Enhanced D
				Minimum Required Impact Test Momentum, lb-sec				
				14	27	31	37	41
27	RC	8 to 10” pea-gravel concrete reinforced with #4 rebar at 12 inches oc each way, placed 1-1/2” from each face	2	S	S	S	S	S
28	RC	11” brick cavity masonry wall with cavity filled with pea-gravel concrete and reinforced with #4 rebar at 12” oc each way	2	S	S	S	S	S
29	ICF	6” (or thicker) ICF wall panels with concrete at least 4 inches thick and reinforced with #4 rebar at 12 inches oc each way	1,2	S	S	S	S	ND
30	ICF	6” (or thicker) ICF waffle-grid wall section reinforced with #5 rebar every 12” vertically and #4 rebar every 16” horizontally	1,2	S	S	S	S	ND
31	AAC	8x8x24 Autoclaved Aerated Concrete wall panel	1	S	F	---	---	---

S = Satisfied the Test Criteria
F = Failed the Test Criteria
ND = No Data/Not Determined

Table K-4. Windborne Debris Impact Resistant Roof Assemblies

Roof No.	Assembly Type	Assembly Description	Data Source	Level of Protection				
				Basic D	Enhanced A	Enhanced B	Enhanced C	Enhanced D
				Minimum Required Impact Momentum Resistance, lb-sec				
				10	18	22	27	39
1	Wood	One layer ½" CD grade plywood or 7/16" OSB on metal or wood joist or truss with wood, clay or asphalt shingle roof cover	1	F	---	---	---	---
2	Wood	One layer 19/32" or thicker CD grade plywood on metal or wood joist or truss with wood, clay or asphalt shingle roof cover	1	S	F	---	---	---
3	Wood	24 ga. or 26 ga. galv. metal roof cover on ½" or thicker CD grade plywood on metal or wood joist or truss	1	S	ND	ND	ND	F
4	Metal	24 ga. or 26 ga. (50 ksi) galv. metal panels on 16 ga. purlins @ 2 feet oc	1	S	S	S	ND	ND
5	Metal	20 ga. or 22 ga. (50 ksi) metal panels on Z 8.25, 16 ga. purlins @ 2 feet oc	1	S	S	S	ND	ND
6	Metal	1-1/2" 20 ga. or 22 ga. Type B, Grade 33 structural metal deck over Z 8.25 girt supports @ 5 feet oc with 26 ga. galv. metal roof cover	1	S	S	S	S	S
7	Metal	1-1/2" 20 ga. or 22 ga. Type B, Grade 33 structural metal deck over supports @ 4 feet oc with 26 ga. galv. metal roof cover	1	S	S	S	S	S
8	Metal	3" 22 ga. structural metal deck	1	S	S	S	S	F

Table K-4. Windborne Debris Impact Resistant Roof Assemblies								
Roof No.	**Assembly Type**	**Assembly Description**	**Data Source**	**Level of Protection**				
				Basic D	**Enhanced A**	**Enhanced B**	**Enhanced C**	**Enhanced D**
				Minimum Required Impact Momentum Resistance, lb-sec				
				10	18	22	27	39
9	RC	CIP 2” pea-gravel concrete with #4 rebar at 12 inches oc each way	2	S	S	F	---	---
10	RC	CIP 3” pea-gravel concrete with #4 rebar at 12” oc each way	2	S	S	S	S	S
11	RC	CIP 4 to 6” pea-gravel conc reinforced w/ #4 rebar at 12” oc each way	2	S	S	S	S	S
12	RC	CIP 8 to 10” pea-gravel concrete reinforced with #4 rebar at 12” oc each way, placed 1-1/2” from each face	2	S	S	S	S	S
13	RC	4” or thicker concrete panel reinforced with #4 rebar at 12” oc each way	1,2	S	S	ND	ND	ND
14	RC	Precast 6” reinforced concrete hollow core slab	1	S	S	S	S	ND
15	RC	Precast 8, 10 or 12” reinforced concrete hollow core slab	1	S	S	S	S	S
S = Satisfied the Test Criteria F = Failed the Test Criteria ND = No Data/Not Determined								

Appendix L, Part 1:

ADA Checklist for Existing Facilities

Additional Excerpts from the U.S. Department of Justice
Checklist for Emergency Shelters

ADA Checklist for Existing Facilities

Priority 1 – Approach and Entrance

Priority 2 – Access to Goods and Services

Priority 3 – Toilet Rooms

Priority 4 – Additional Access

ADA Checklist for Existing Facilities

Based on the 2010 ADA Standards for Accessible Design

Produced by
Institute for Human Centered Design
www.HumanCenteredDesign.org

www.ADAchecklist.org
2014

ADA National Network
www.ADAta.org

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This checklist was produced by the New England ADA Center, a project of the Institute for Human Centered Design and a member of the ADA National Network. This checklist was developed under a grant from the Department of Education, NIDRR grant number H133A060092-09A. However the contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government.

Questions or comments on the checklist contact the New England ADA Center at 617-695-0085 voice/tty or ADAinfo@NewEnglandADA.org
For the full set of checklists, including the checklists for recreation facilities visit www.ADAchecklist.org.

ADA Checklist for Existing Facilities

The Americans with Disabilities Act (ADA) requires state and local governments, businesses and non-profit organizations to provide goods, services and programs to people with disabilities on an equal basis with the rest of the public.

Some people think that only new construction and alterations need to be accessible and that older facilities are "grandfathered," but that's not true. Because the ADA is a civil rights law and not a building code, older facilities are often required to be accessible to ensure that people with disabilities have an equal opportunity to participate.

The ADA has different requirements for state and local governments and for places of public accommodation (businesses and non-profit organizations that serve the public).

Requirements for State and Local Governments

State and local governments must ensure that services, programs and activities, when viewed in their entirety, are accessible to people with disabilities. This is part of public entities' program accessibility obligations. Alterations to older buildings may be needed to ensure program accessibility. Generally this is a greater obligation than "readily achievable barrier removal" the standard that applies to public accommodations. State and local governments are not required to take any action that would result in undue financial and administrative burdens.

State and local governments' ADA obligations for program accessibility are in the Department of Justice's ADA Title II regulations 28 CFR Part 35.150.

How to Use this Checklist

Get Organized

One person can conduct a survey, but it's easier with two people. One person can take measurements and the other person can fill out the checklist and take photos.

Obtain Floor Plan or Make Sketch

A floor plan helps the surveyors to get organized and to know how many elements there are, such as entrances and toilet rooms. If plans are not available, sketch the exterior and interior layout of interior and exterior spaces and mark the elements on the sketch.

Make Copies of the Checklist

Determine how many copies of each section of the checklist you need. For example, most facilities have more than one toilet room.

Gather Tools

- Checklist
- Clipboard
- Tape measure
- Electronic or carpenter's level - 24 inches
- Door pressure gauge or fish scale
- Camera
- Bag to hold these items

Requirements for Places of Public Accommodation

Businesses and non-profit organizations that serve the public must remove architectural barriers when it is "readily achievable" to do so; in other words, when barrier removal is "easily accomplishable and able to be carried out without much difficulty or expense."

The decision of what is readily achievable is made considering the size, type, and overall finances of the public accommodation and the nature and cost of the access improvements needed. Barrier removal that is difficult now may be readily achievable in the future as finances change.

Public accommodations' ADA obligations for barrier removal are in the Department of Justice's ADA Title III regulations 28 CFR Part 36.304.

Priorities for Accessibility

The checklist follows the four priorities that are listed in the Department of Justice ADA Title III regulations. These priorities are equally applicable to state and local government facilities.

Priority 1 - Accessible approach and entrance

Priority 2 - Access to goods and services

Priority 3 - Access to public toilet rooms

Priority 4 - Access to other items such as water fountains and public telephones

Conduct the Survey

Start Outside

Start from site arrival points such as drop-off areas and sidewalks. Determine if there is an accessible route to an accessible entrance. If there is a parking lot or garage check for the correct number of accessible parking spaces, including van-accessible spaces. Is there an accessible route from the accessible parking spaces to an accessible entrance? Next survey the entrances. If there is an accessible entrance, determine if there are signs at inaccessible entrances directing people to the accessible entrance. Go inside and continue through the facility.

Keep Good Notes

Write on the front of each checklist where you are surveying. You may end up with six toilet room checklists. When you get back to your office you'll want to know which one is the checklist for the first floor women's room. If there isn't an accessible entrance you'll want to indicate how many steps there are and how much space is available to install a ramp or lift. This is a good time to take photographs.

Take Good Measurements

When in doubt write it down. It's better to have too much information than not enough. Even if something is in compliance it's helpful to have exact measurements.

2010 ADA Standards for Accessible Design

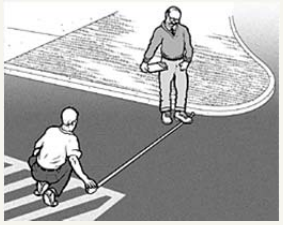
The checklist is based on the 2010 ADA Standards for Accessible Design (2010 Standards). The checklist does not include all sections of the 2010 Standards. For example there are no questions about patient rooms in hospitals or guest rooms in hotels. Consult the 2010 Standards for situations not covered in the checklist. Full compliance with the 2010 Standards is required only for new construction and alterations.

Safe Harbor – Construction Prior to March 15, 2012

Elements in facilities built or altered before March 15, 2012 that comply with the 1991 ADA Standards for Accessible Design (1991 Standards) are not required to be modified to specifications in the 2010 Standards. For example, the 1991 Standards allow 54 inches maximum for a side reach range to a control such as the operating part of a paper towel dispenser. The 2010 Standards lower that side reach range to 48 inches maximum. If a paper towel dispenser was installed prior to March 15, 2012 with the highest operating part at 54 inches, the paper towel dispenser does not need to be lowered to 48 inches.

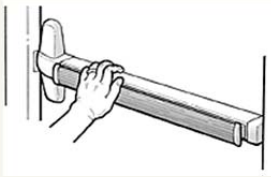
Elements in the 2010 Standards that aren't in the 1991 Standards

The 2010 Standards contain elements that are not in the 1991 Standards. These elements include recreation facilities such as swimming pools, team and player seating, accessible routes to court sports facilities, saunas and steam rooms, fishing piers, play areas, exercise machines, golf facilities, miniature golf facilities, amusement rides, shooting facilities with firing positions, and recreational boating facilities. Because these elements are not in the 1991 Standards, they are not subject to the safe harbor exemption. State and local governments must make these items accessible if necessary to ensure program accessibility, unless an undue burden would result. Public accommodations must remove architectural barriers to these items.



Parking Spaces
Measure from the center of marking lines. If lines are not adjacent to another space or aisle the measurement can be to the full width of the line.

Door Clear Width
Open the door 90 degrees, measure from the face of the door to the edge of the door stop.



Door Opening Force
Place the door pressure gauge where you would push open the door.

If you're using a fish scale, place it where you would pull open the door.

What this Checklist is Not

The ADA Title II and III regulations require more than program accessibility and barrier removal. The regulations include requirements for nondiscriminatory policies and practices and for the provision of auxiliary aids and services, such as sign language interpreters for people who are deaf and material in Braille for people who are blind. This checklist does not cover those requirements.

Since this checklist does not include all of the 2010 Standards it is not intended to determine compliance for new construction or facilities being altered.

What are Public Accommodations?

Under the ADA public accommodations are private entities that own, lease, lease to or operate a place of public accommodation. This means that both a landlord who leases space in a building to a tenant and the tenant who operates a place of public accommodation have responsibilities to remove barriers.

A place of public accommodation is a facility whose operations affect commerce and fall within at least one of the following 12 categories:

1) Places of lodging (e.g., inns, hotels, motels, except for owner-occupied establishments renting fewer than six rooms)

2) Establishments serving food or drink (e.g. , restaurants and bars)

3) Places of exhibition or entertainment (e.g. , motion picture houses, theaters, concert halls, stadiums)

4) Places of public gathering (e.g. , auditoriums, convention centers, lecture halls)

5) Sales or rental establishments (e.g. , bakeries, grocery stores, hardware stores, shopping centers)

Accessible Slopes

You can measure slope with a 24 inch level and a tape measure. Put the level on the surface in the direction you are measuring. Put one end at the high point of the surface and raise the other end so that the bubble is in the middle of the level's gauge. The level is now level. Measure the distance between the end of the level at its bottom point and the surface.

For a ramp the maximum running slope allowed is 1:12. That means for every inch of height change there should be at least 12 inches of ramp run. If the distance between the bottom of the level and the ramp surface is 2 inches or less, then the slope is 1:12 or less (2:24 = 1:12 and 1.5:24 = 1:16 which is a more gradual slope than 1:12). If the distance is greater than 2 inches, the ramp is too steep. For example, if the distance is 3 inches, then the slope is 1:8 (3:24 = 1:8 which is a steeper slope than 1:12).

For the parts of an accessible route that aren't a ramp, the maximum running slope allowed is 1:20. That means for every inch of height change there must be at least 20 inches of route run. The distance from the bottom edge of the level to the surface should be no more than 1.2 inches (1.2:24 = 1:20).

6) Service establishments (e.g. , laundromats, dry-cleaners, banks, barber shops, beauty shops, travel services, shoe repair services, funeral parlors, gas stations, offices of accountants or lawyers, pharmacies, insurance offices, professional offices of health care providers, hospitals)

7) Public transportation terminals, depots, or stations (not including facilities relating to air transportation)

8) Places of public display or collection (e.g. , museums, libraries, galleries)

9) Places of recreation (e.g. , parks, zoos, amusement parks)

10) Places of education (e.g. , nursery schools, elementary, secondary, undergraduate, or postgraduate private schools)

11) Social service center establishments (e.g. , day care centers, senior citizen centers, homeless shelters, food banks, adoption agencies)

12) Places of exercise or recreation (e.g. , gymnasiums, health spas, bowling alleys, golf courses).

For the cross slope of an accessible route the maximum slope allowed is 1:48. The distance from the bottom edge of the level to the surface should be no more than ½ inch (.5:24 = 1:48). The cross slope of an accessible route is the slope that is perpendicular to the direction of pedestrian travel.

Slopes may also be measured using a digital level. Be sure to read the instructions. Measure with the percent calculation rather than the degrees calculation. For a ramp the maximum running slope allowed is 8.33% (8.33% is a 1:12 slope). For an accessible route without a ramp the maximum running slope allowed is 5% (1:20). For the cross slope of an accessible route the maximum slope allowed is 2.083% (1:48).

Check that You Got Everything - Before you leave the site review all the checklists. Make sure you know which checklist goes with which entrance and which toilet room and that you've got all the information you need. It is better to do it now than to have to go back.

After the Survey

List Barriers and Solutions - Consider the solutions listed beside each question on the checklist and add your own ideas. Consult with building contractors and equipment suppliers to estimate the costs for making modifications.

Resources

U.S. Department of Justice ADA Information

800-514-0301 voice
800-514-0383 TTY
www.ada.gov

ADA National Network

800-949-4232 voice/TTY connects to your regional ADA Center
www.adata.org

U.S. Access Board

800- 872-2253 voice
800-993-2822 TTY
www.access-board.gov

ADA Title III Regulations 28 CFR Part 36
www.ada.gov/regs2010/titleIII_2010/titleIII_2010_regulations.htm

2010 ADA Standards for Accessible Design
www.ada.gov/2010ADAstandards_index.htm

1991 ADA Standards for Accessible Design
www.ada.gov/stdspdf.htm

Tax Deductions and Credits for Barrier Removal
www.ada.gov/taxincent.htm

Develop a Plan – State and local governments were required to develop a Transition Plan a few years after the ADA went into effect. Conducting a current survey is a good opportunity to update the plan.

Although places of public accommodation are not required to have a plan,, the Department of Justice recommends one: *"...Such a plan...could serve as evidence of a good faith effort to comply..."*

Prioritize items, make a timeline, decide who is responsible to carry out the plan and develop a budget.

Make Changes - Use the 2010 ADA Standards for Accessible Design. Check whether local and state building codes require greater accessibility when alterations are undertaken.

Follow Up - Review the plan each year to evaluate whether more access improvements can be made.

Acknowledgements

Many of the illustrations are from the U.S. Department of Justice and the U.S. Access Board or are based on illustrations produced by the U.S. Access Board and the U.S. Department of Justice.

ADA Checklist for Existing Facilities

Priority 1 – Approach & Entrance

Based on the 2010 ADA Standards for Accessible Design

Project

Building

Location

Date

Surveyors

Contact Information

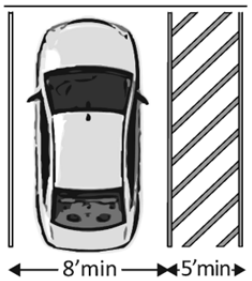
An accessible route from site arrival points and an accessible entrance should be provided for everyone.

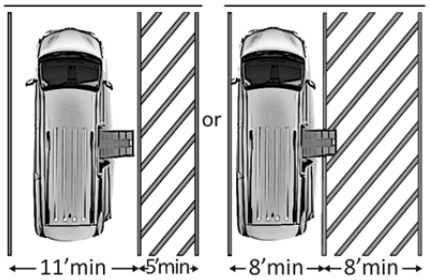
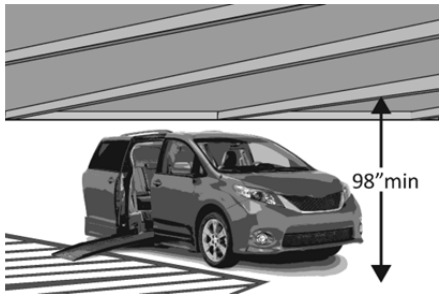
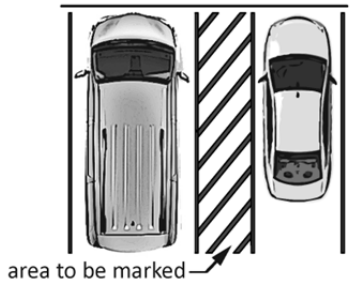
Institute for Human Centered Design
www.HumanCenteredDesign.org
2014

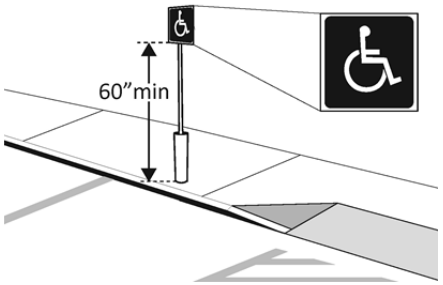
ADA National Network
Questions on the ADA 800-949-4232 voice/tty
www.ADAchecklist.org

This checklist was produced by the New England ADA Center, a project of the Institute for Human Centered Design and a member of the ADA National Network. This checklist was developed under a grant from the Department of Education, NIDRR grant number H133A060092-09A. However the contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government.

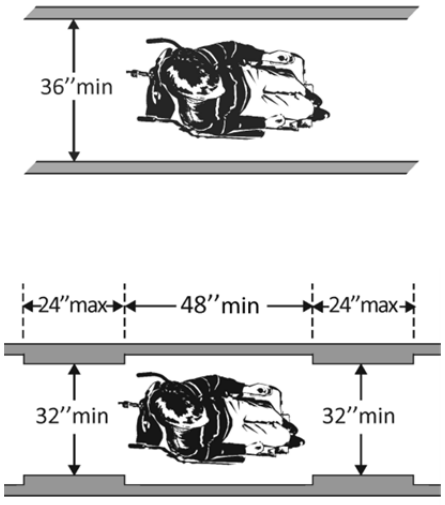
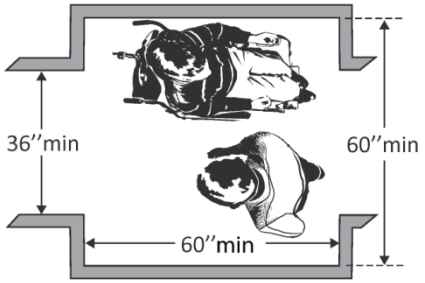
Questions or comments on the checklist contact the New England ADA Center at 617-695-0085 voice/tty or ADAinfo@NewEnglandADA.org
For the full set of checklists, including the checklists for recreation facilities visit www.ADAchecklist.org.

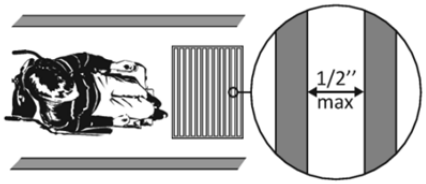
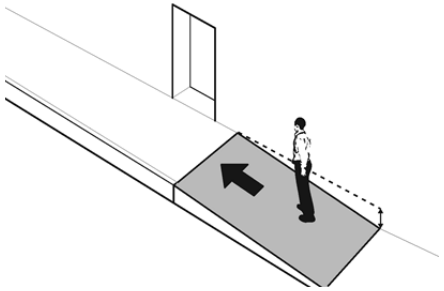
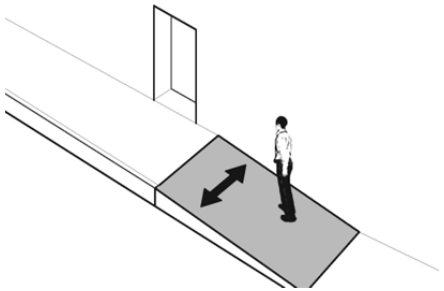
Priority 1 – Approach & Entrance				Comments	Possible Solutions
1.1	Is there at least one route from site arrival points (parking, passenger loading zones, public sidewalks and public transportation stops) that does not require the use of stairs? [See 2010 ADA Standards for Accessible Design – 206.2.1]	☐Yes ☐No If yes, location of route:		Photo #:	• Add a ramp • Regrade to 1:20 maximum slope • Add a lift if site constraints prevent other solutions
Parking Accessible parking spaces should be identified by size, access aisle and signage.					
1.2	If parking is provided for the public, are an adequate number of accessible spaces provided? [208.2]	☐Yes ☐No Total #: Accessible #:	**Total Spaces** / **Accessible Spaces** 1 - 25 / 1 26 - 50 / 2 51 - 75 / 3 76 - 100 / 4 100+ see 2010 Standards 208.2	Photo #:	• Reconfigure by repainting lines • •
1.3	Of the accessible spaces, is at least one a van accessible space?* [208.2.4]	☐Yes ☐No	*For every 6 or fraction of 6 parking spaces required by the table above, at least 1 should be a van accessible space.	Photo #:	* If constructed before 3/15/2012, parking is compliant if at least 1 in every 8 accessible spaces is van accessible • Reconfigure by repainting lines
1.4	Are accessible spaces at least 8 feet wide with an access aisle at least 5 feet wide? [502.2, 502.3] Note: Two spaces may share an access aisle. Check state/local requirements; some specify that each space have its own aisle.	☐Yes ☐No Measurement:		Photo #:	• Reconfigure by repainting lines • •

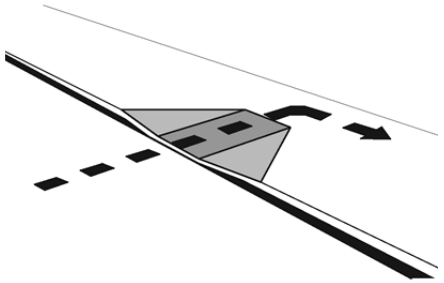
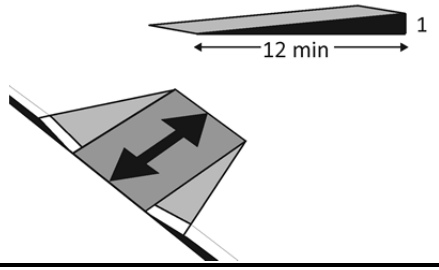
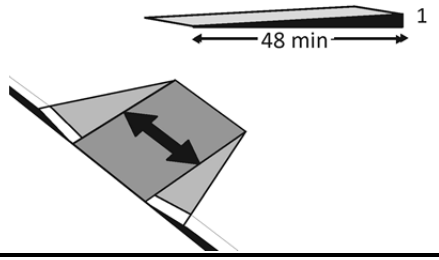
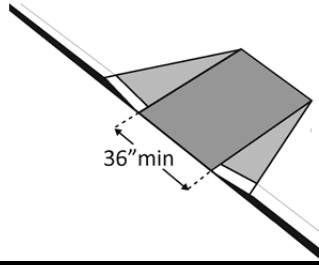
1.5	Is the van accessible space: At least 11 feet wide with an access aisle at least 5 feet wide? Or At least 8 feet wide with an access aisle at least 8 feet wide? [502.2]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	• Reconfigure to provide van-accessible space(s) • •
1.6	Is at least 98 inches of vertical clearance provided for the van accessible space? [502.5]	☐Yes ☐No Measurement:		Photo #:	• Reconfigure to provide van-accessible space(s) • •
1.7	Are the access aisles marked so as to discourage parking in them? [502.3.3] Note: The marking method and color may be addressed by state/local requirements.	☐Yes ☐No		Photo #:	• Mark access aisles • •
1.8	Is the slope of the accessible parking spaces and access aisles no steeper than 1:48 in all directions? [502.4]	☐Yes ☐No Measurement:		Photo #:	• Regrade surface • •

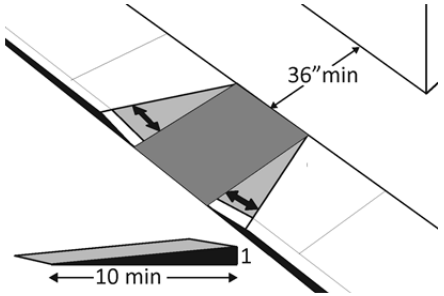
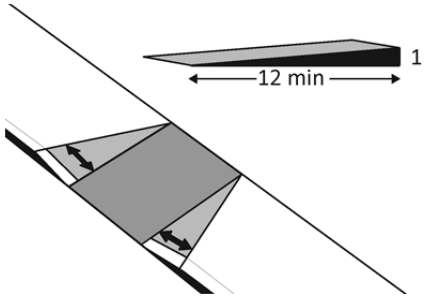
1.9	Do the access aisles adjoin an accessible route? [502.3]	☐Yes ☐No		Photo #:	• Create accessible route • Relocate accessible space •
1.10	Are accessible spaces identified with a sign that includes the International Symbol of Accessibility? Is the bottom of the sign at least 60 inches above the ground? [502.6] Note: The International Symbol of Accessibility is not required on the ground.	☐Yes ☐No ☐Yes ☐No Measurement:		Photo #:	• Install signs • •
1.11	Are there signs reading "van accessible" at van accessible spaces? [502.6]	☐Yes ☐No		Photo #:	• Install signs • •
1.12	Of the total parking spaces, are the accessible spaces located on the closest accessible route to the accessible entrance(s)? [208.3.1] Note: If parking serves multiple entrances, accessible parking should be dispersed.	☐Yes ☐No		Photo #:	• Reconfigure spaces • •

Exterior Accessible Route

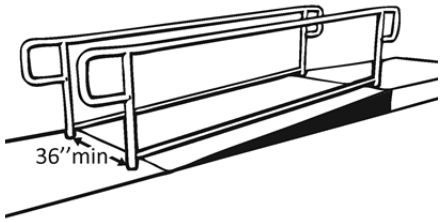
1.13	Is the route stable, firm and slip-resistant? [302.1]	☐Yes ☐No		Photo #:	• Repair uneven paving • Fill small bumps and breaks with patches • Replace gravel with asphalt or other surface
1.14	Is the route at least 36 inches wide? [403.5.1] Note: The accessible route can narrow to 32 inches min. for a max. of 24 inches. These narrower portions of the route must be at least 48 inches from each other.	☐Yes ☐No Measurement:		Photo #:	• Change or move landscaping, furnishings or other items • Widen route •
1.15	If the route is greater than 200 feet in length and less than 60 inches wide, is there a passing space no less than 60 x 60 inches? [403.5.3]	☐Yes ☐No Measurement:		Photo #:	• Widen route for passing space • •

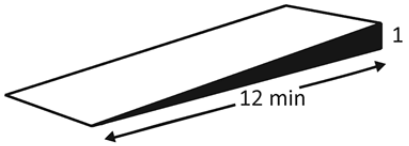
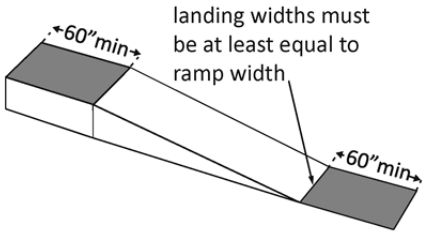
1.16	If there are grates or openings on the route, are the openings no larger than ½ inches? Is the long dimension perpendicular to the dominant direction of travel? [302.3]	☐Yes ☐No Measurement: ☐Yes ☐No		Photo #:	• Replace or move grate • •
1.17	Is the running slope no steeper than 1:20, i.e. for every inch of height change there are at least 20 inches of route run? [403.3] Note: If the running slope is steeper than 1:20, treat as a ramp and add features such as edge protection and handrails.	☐Yes ☐No Measurement:		Photo #:	• Regrade to 1:20 max. • •
1.18	Is the cross slope no steeper than 1:48? [403.3]	☐Yes ☐No Measurement:		Photo #:	• Regrade to 1:48 max. • •

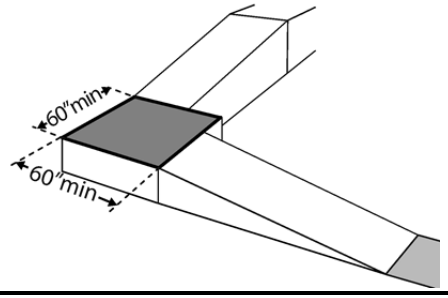
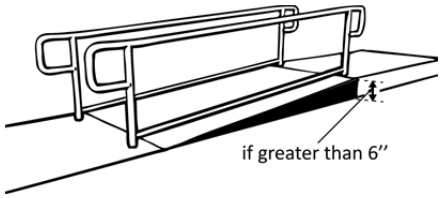
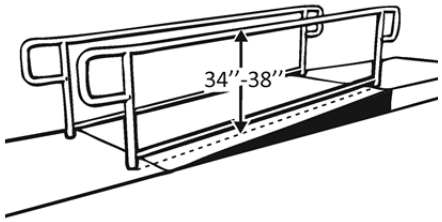
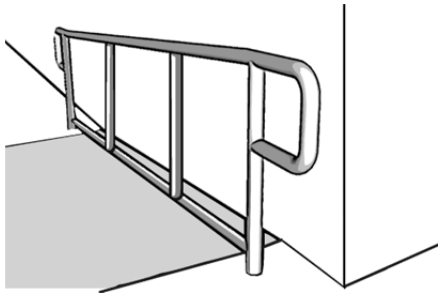
Curb Ramps					
1.19	If the accessible route crosses a curb, is there a curb ramp? [402.2]	☐Yes ☐No		Photo #:	• Install curb ramp • •
1.20	Is the running slope of the curb ramp no steeper than 1:12, i.e. for every inch of height change there are at least 12 inches of curb ramp run? [406.1, 405.2]	☐Yes ☐No Measurement:		Photo #:	• Regrade curb ramp • •
1.21	Is the cross slope of the curb ramp, excluding flares, no steeper than 1:48? [406.1, 405.3]	☐Yes ☐No Measurement:		Photo #:	• Regrade curb ramp • •
1.22	Is the curb ramp, excluding flares, at least 36 inches wide? [406.1, 405.5]	☐Yes ☐No Measurement:		Photo #:	• Widen curb ramp • •

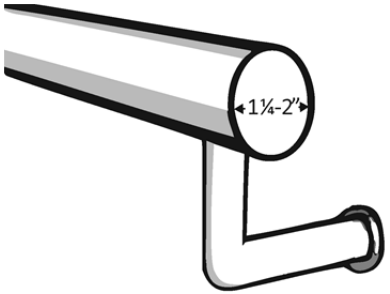
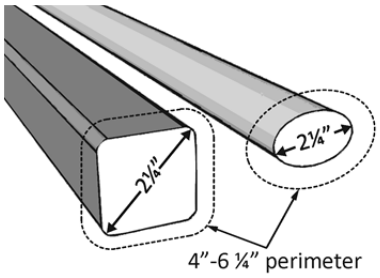
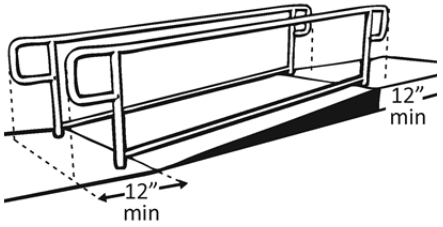
1.23	At the top of the curb ramp is there a level landing (slope no steeper than 1:48 in all directions) that is at least 36 inches long and at least as wide as the curb ramp? [406.4] If there are curb ramp flares, are the slopes of the flares no steeper than 1:10, i.e. for every inch of height change there are at least 10 inches of flare run? [406.3]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	• Reconfigure • Add ramp flares •
1.24	If the landing at the top is less than 36 inches long, are there curb ramp flares? Are the slopes of the flares no greater than 1:12, i.e. for every inch of height change there are at least 12 inches of flare run? [406.4]	☐Yes ☐No ☐Yes ☐No Measurement:		Photo #:	• Add ramp flares • Regrade flares •

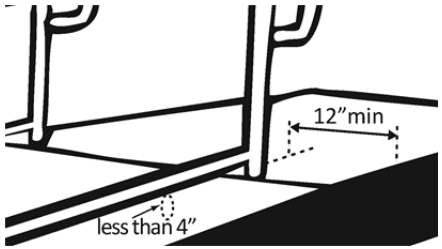
Ramps If any portion of the accessible route is steeper than 1:20, it should be treated as a ramp.

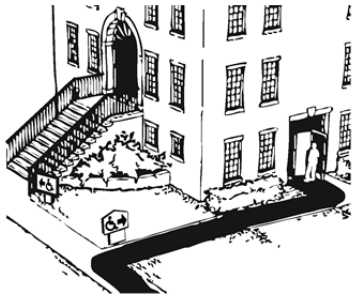
1.25	If there is a ramp is it at least 36 inches wide? [405.5] Note: If there are handrails, measure between the handrails.	☐Yes ☐No Measurement:		Photo #:	• Alter ramp • •

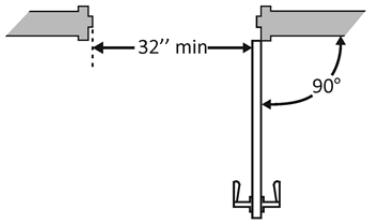
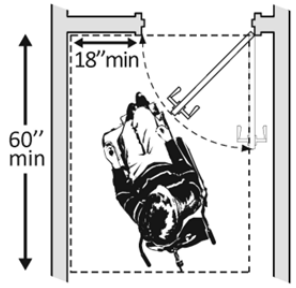
1.26	Is the surface stable, firm and slip resistant? [405.4]	☐Yes ☐No		Photo #:	• Resurface ramp • •
1.27	For each section of the ramp, is the running slope no greater than 1:12, i.e. for every inch of height change there are at least 12 inches of ramp run? [405.2] Note: Rises no greater than 3 inches with a slope no steeper than 1:8 and rises no greater than 6 inches with a slope no steeper than 1:10 are permitted when such slopes are necessary due to space limitations.	☐Yes ☐No Measurement:		Photo #:	• Relocate ramp • Lengthen ramp to decrease slope •
1.28	Is there a level landing that is at least 60 inches long and at least as wide as the ramp: At the top of the ramp? At the bottom of the ramp? [405.7.2, 405.7.3]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	• Alter ramp • Relocate ramp •

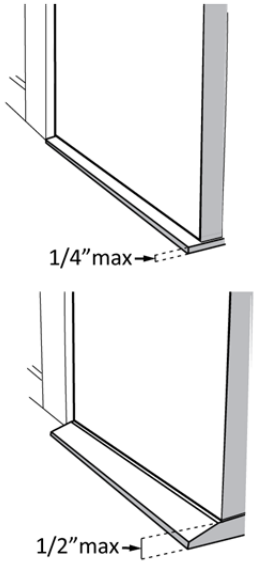
1.29	Is there a level landing where the ramp changes direction that is at least 60 x 60 inches? [405.7.4]	☐ Yes ☐ No Measurement:		Photo #:	• Alter ramp • Increase landing size •
1.30	If the ramp has a rise higher than 6 inches, are there handrails on both sides? [405.8] Note: Curb ramps are not required to have handrails.	☐ Yes ☐ No Measurement:		Photo #:	• Add handrails • •
1.31	Is the top of the handrail gripping surface no less than 34 inches and no greater than 38 inches above the ramp surface? [505.4]	☐ Yes ☐ No Measurement:		Photo #:	• Reconfigure or replace handrails • Adjust handrail height •
1.32	Is the handrail gripping surface continuous and not obstructed along the top or sides? [505.3] If there are obstructions, is the bottom of the gripping surface obstructed no greater than 20%? [505.6]	☐ Yes ☐ No ☐ Yes ☐ No Measurement:		Photo #:	• Reconfigure or replace handrails • •

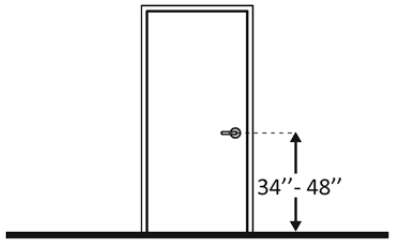
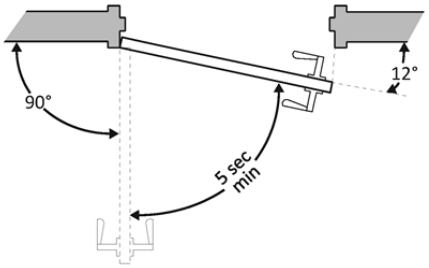
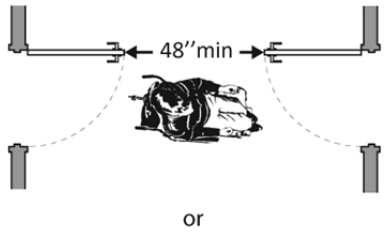
1.33	If the handrail gripping surface is circular, is it no less than 1 ¼ inches and no greater than 2 inches in diameter? [505.7.1]	☐Yes ☐No Measurement:		Photo #:	• Replace handrails • •
1.34	If the handrail gripping surface is non-circular: Is the perimeter no less than 4 inches and no greater than 6¼ inches? Is the cross section no greater than 2¼ inches? [505.7.2]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	• Replace handrails • •
1.35	Does the handrail: Extend at least 12 inches horizontally beyond the top and bottom of the ramp? Return to a wall, guard, or landing surface? [505.10.1] Note: If a 12 inch extension would be a hazard (in circulation path) it is not required.	☐Yes ☐No Measurement: ☐Yes ☐No		Photo #:	• Alter handrails • •

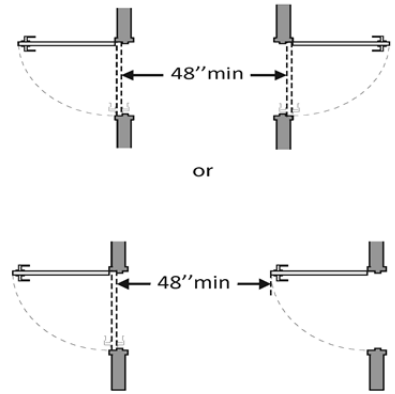
1.36	To prevent wheelchair casters and crutch tips from falling off: Does the surface of the ramp extend at least 12 inches beyond the inside face of the handrail? Or Is there a curb or barrier that prevents the passage of a 4-inch diameter sphere? [405.9.1, 405.9.2]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	• Add curb • Add barrier • Extend ramp width •

Entrance					
1.37	Is the main entrance accessible?	☐Yes ☐No		Photo #:	• Redesign to make it accessible • •
1.38	If the main entrance is not accessible, is there an alternative accessible entrance? Can the alternative accessible entrance be used independently and during the same hours as the main entrance?	☐Yes ☐No ☐Yes ☐No		Photo #:	• Designate an entrance and make it accessible • Ensure that accessible entrance can be used independently and during the same hours as the main entrance •

1.39	Do all inaccessible entrances have signs indicating the location of the nearest accessible entrance? [216.6]	☐Yes ☐No		Photo #:	• Install signs • Install signs on route before people get to inaccessible entrances so that people do not have to turn around and retrace route •
1.40	If not all entrances are accessible, is there a sign at the accessible entrance with the International Symbol of Accessibility? [216.6]	☐Yes ☐No		Photo #:	• Install sign • •
1.41	Is the clear opening width of the accessible entrance door at least 32 inches, between the face of the door and the stop, when the door is open 90 degrees? [404.2.3]	☐Yes ☐No Measurement:		Photo #:	• Alter door • Install offset hinges •
1.42	If there is a front approach to the pull side of the door, is there at least 18 inches of maneuvering clearance beyond the latch side plus at least 60 inches clear depth? Note: See 2010 Standards 404.2.4 for maneuvering clearance requirements on the push side of the door and side approaches to the pull side of the door	☐Yes ☐No Measurement:			• Remove obstructions • Reconfigure walls • Add automatic door opener

	On both sides of the door, is the ground or floor surface of the maneuvering clearance level (no steeper than 1:48)? [404.2.4]	☐Yes ☐No Measurement:		Photo #:	
1.43	If the threshold is vertical is it no more than ¼ inch high? Or No more than ½ inch high with the top ¼ inch beveled no steeper than 1:2, if the threshold was installed on or after the 1991 ADA Standards went into effect (1/26/93)? Or No more than ¾ inch high with the top ½ inch beveled no steeper than 1:2, if the threshold was installed before the 1991 ADA Standards went into effect (1/26/93)? [404.2.5, 303.2] Note: The first ¼ inch of the ½ or ¾ inch threshold may be vertical; the rest must be beveled.	☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	• Remove or replace threshold • •

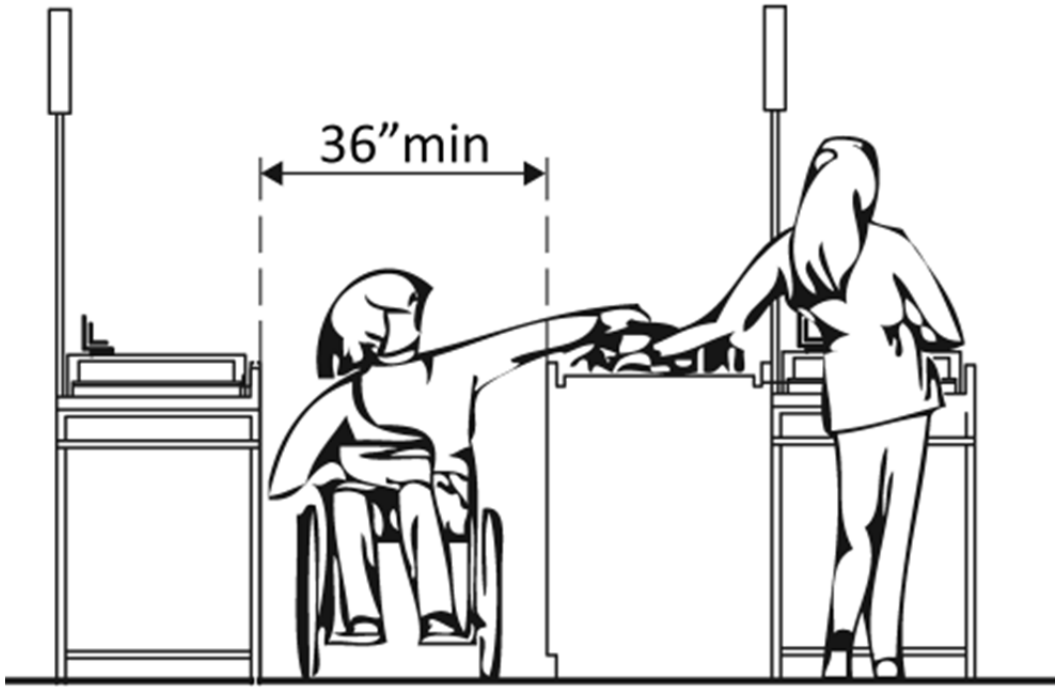
1.44	Is the door equipped with hardware that is operable with one hand and does not require tight grasping, pinching or twisting of the wrist? Door handle? Lock (if provided)? [404.2.7]	☐Yes ☐No ☐Yes ☐No ☐Yes ☐No		Photo #:	• Replace inaccessible knob with lever, loop or push hardware • Add automatic door opener •
1.45	Are the operable parts of the door hardware no less than 34 inches and no greater than 48 inches above the floor or ground surface? [404.2.7]	☐Yes ☐No Measurement:		Photo #:	• Change hardware height • •
1.46	If the door has a closer, does it take at least 5 seconds to close from an open position of 90 degrees to a position of 12 degrees from the latch? [404.2.8]	☐Yes ☐No Measurement:		Photo #:	• Adjust closer • •
1.47	If there are two doors in a series, e.g. vestibule, is the distance between the doors at least 48 inches plus the width of the doors when swinging into the space? [404.2.6]	☐Yes ☐No Measurement:			• Remove inner door • Change door swing •

			Photo #:	
1.48	If provided at the building entrance, are carpets or mats no higher than ½ inch thick? [302.2]	☐Yes ☐No Measurement:	 Photo #:	• Replace or remove mats • •
1.49	Are edges of carpets or mats securely attached to minimize tripping hazards? [302.2]	☐Yes ☐No	Photo #:	• Secure carpeting or mats at edges • •
		☐Yes ☐No	Photo #:	• • •
		☐Yes ☐No	Photo #:	• • •

ADA Checklist for Existing Facilities

Priority 2 – Access to Goods & Services

Based on the 2010 ADA Standards for Accessible Design



Project

Building

Location

Date

Surveyors

Contact Information

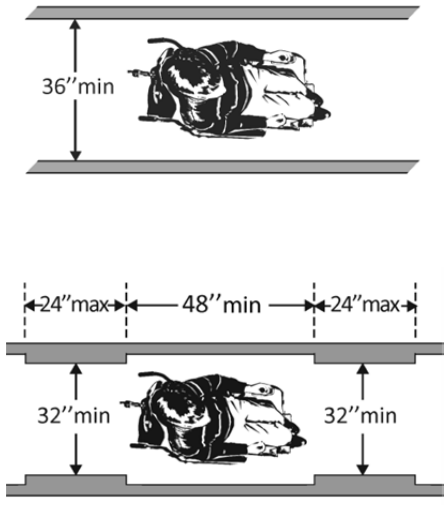
The layout of the building should allow people with disabilities to obtain goods and services and to participate in activities without assistance.

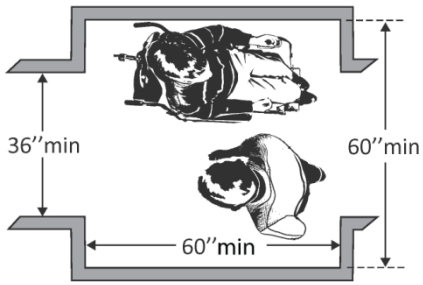
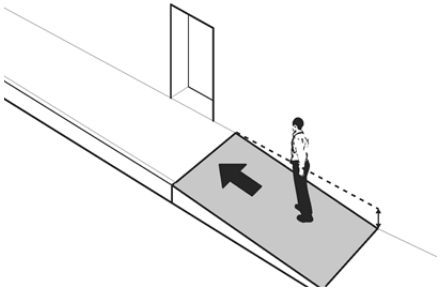
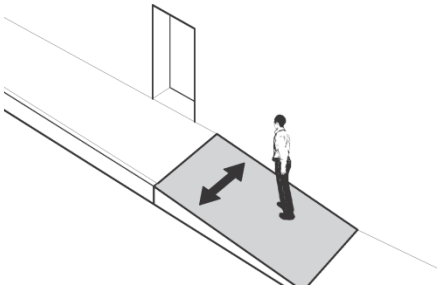
Institute for Human Centered Design
www.HumanCenteredDesign.org
2014

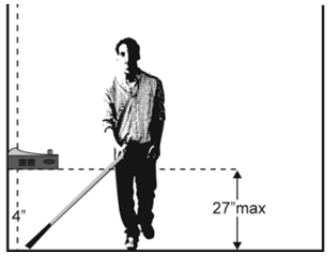
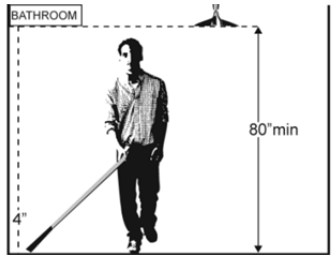
ADA National Network
Questions on the ADA 800-949-4232 voice/tty
www.ADAchecklist.org

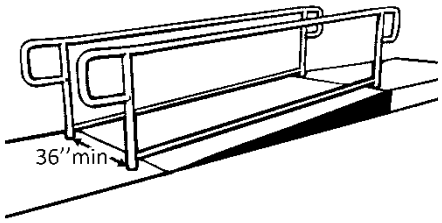
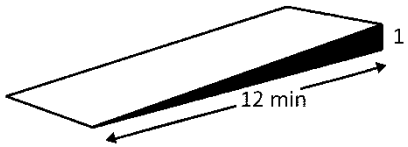
This checklist was produced by the New England ADA Center, a project of the Institute for Human Centered Design and a member of the ADA National Network. This checklist was developed under a grant from the Department of Education, NIDRR grant number H133A060092-09A. However the contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government.

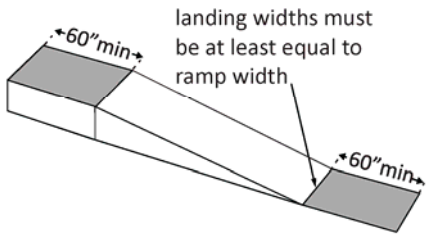
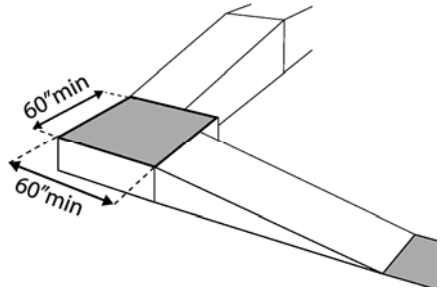
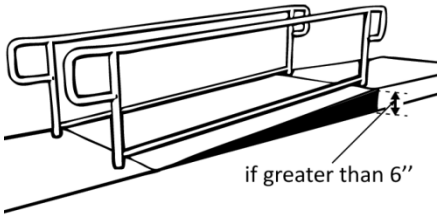
Questions or comments on the checklist contact the New England ADA Center at 617-695-0085 voice/tty or ADAinfo@NewEnglandADA.org
For the full set of checklists, including the checklists for recreation facilities visit www.ADAchecklist.org.

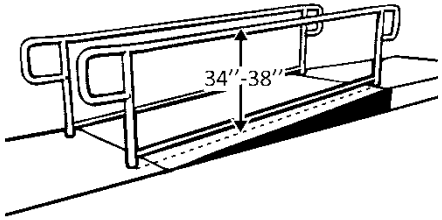
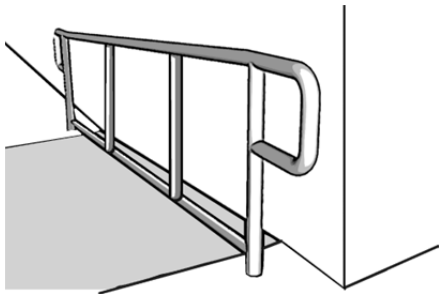
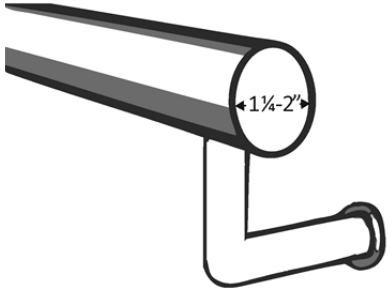
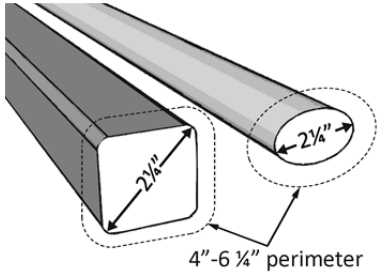
Priority 2 – Access to Goods & Services				Comments	Possible Solutions
2.1	Does the accessible entrance provide direct access to the main floor, lobby and elevator? [See 2010 ADA Standards for Accessible Design – 206.4]	☐ Yes ☐ No		Photo #:	• Create accessible route • •
Interior Accessible Route					
2.2	Are all public spaces on at least one accessible route? [206.2.4]	☐ Yes ☐ No		Photo #:	• Create accessible route • •
2.3	Is the route stable, firm and slip-resistant? [40.2, 302.1]	☐ Yes ☐ No		Photo #:	• Repair uneven surfaces • •
2.4	Is the route at least 36 inches wide? [403.5.1] Note: The accessible route can narrow to 32 inches min. for a max. of 24 inches. These narrower portions of the route must be at least 48 inches from each other.	☐ Yes ☐ No Measurement:		Photo #:	• Widen route • •

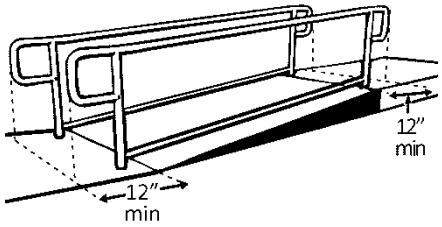
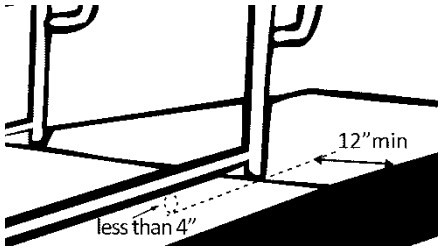
2.5	If the route is greater than 200 feet in length and less than 60 inches wide, is there a passing space no less than 60 x 60 inches? [403.5.3]	☐ Yes ☐ No Measurement:		Photo #:	• Widen route for passing space • •
2.6	Is the running slope no steeper than 1:20, i.e. for every inch of height change there are at least 20 inches of route run? [403.3] Note: If the running slope is steeper than 1:20, treat as a ramp and add features such as edge protection and handrails.	☐ Yes ☐ No Measurement:		Photo #:	• Regrade • •
2.7	Is the cross slope no steeper than 1:48? [403.3]	☐ Yes ☐ No Measurement:		Photo #:	• Regrade • •

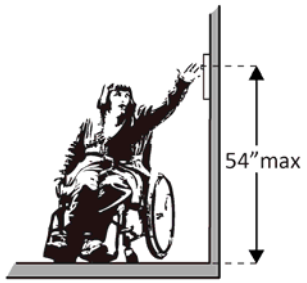
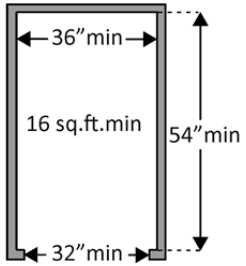
2.8	Do all objects on circulation paths through public areas, e.g. fire extinguishers, drinking fountains, signs, etc., protrude no more than 4 inches into the path? Or If an object protrudes more than 4 inches, is the bottom leading edge at 27 inches or lower above the floor? [307.2] Or Is the bottom leading edge at 80 inches or higher above the floor? [307.4]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:	 Or  Or 	Photo #:	• Remove object • Add tactile warning such as permanent planter or partial walls •
2.9	Are there elevators or platform lifts to all public stories? Note: Vertical access is not required in new construction or alterations if a facility is less than three stories or has less than 3,000 square feet per story, unless the facility is a shopping center, shopping mall, professional office of a health care provider, transportation terminal, state facility or local government facility	☐ Yes ☐ No		Photo #:	• Install if necessary • Offer goods and services on an accessible story •

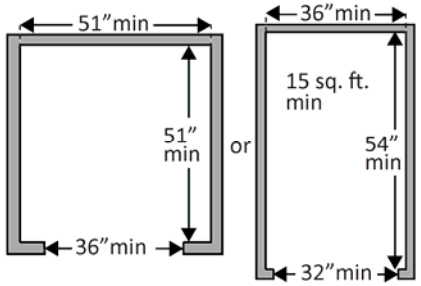
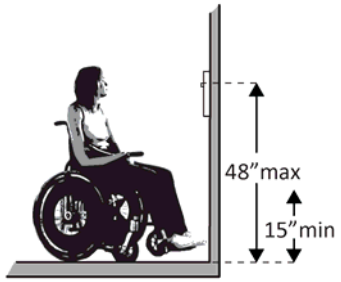
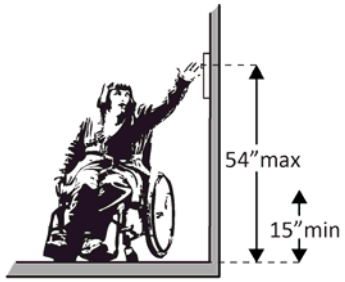
Ramps					
2.10	If there is a ramp, is it at least 36 inches wide? [405.5] Note: If there are handrails, measure between the handrails.	☐ Yes ☐ No Measurement:		Photo #:	• Alter ramp • •
2.11	Is the surface stable, firm and slip resistant? [405.4]	☐ Yes ☐ No		Photo #:	• Resurface ramp • •
2.12	For each section of the ramp, is the running slope no greater than 1:12, i.e. for every inch of height change there are at least 12 inches of ramp run? [405.2] Note: Rises no greater than 3 inches with a slope no steeper than 1:8 and rises no greater than 6 inches with a slope no steeper than 1:10 are permitted when due to space limitations.	☐ Yes ☐ No Measurement:		Photo #:	• Lengthen ramp to decrease slope • Relocate ramp •

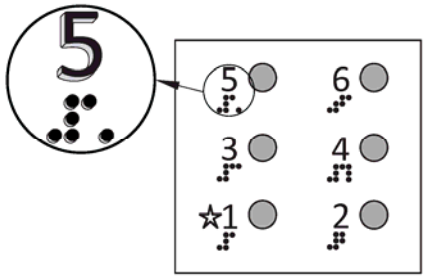
2.13	Is there a level landing that is at least 60 inches long and at least as wide as the ramp: At the top of the ramp? At the bottom of the ramp? [405.7.2, 405.7.3]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Alter ramp • Relocate ramp •
2.14	Is there a level landing where the ramp changes direction that is at least 60 x 60 inches? [405.7.4]	☐ Yes ☐ No Measurement:		Photo #:	• Increase landing size • •
2.15	If the ramp has a rise higher than 6 inches are there handrails on both sides? [405.8]	☐ Yes ☐ No Measurement:		Photo #:	• Add handrails • •

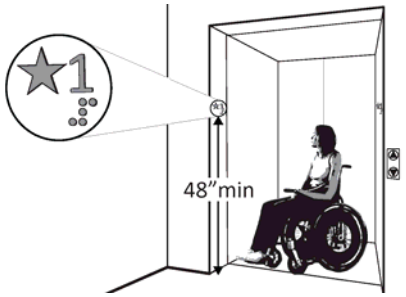
2.16	Is the top of the handrail gripping surface no less than 34 inches and no greater than 38 inches above the ramp surface? [505.4]	☐ Yes ☐ No Measurement:		Photo #:	• Adjust handrail height • •
2.17	Is the handrail gripping surface continuous and not obstructed along the top or sides? [505.3] If there are obstructions, is the bottom of the gripping surface obstructed no more than 20%? [505.6]	☐ Yes ☐ No ☐ Yes ☐ No Measurement:		Photo #:	• Reconfigure or replace handrails • •
2.18	If the handrail gripping surface is circular, is it no less than 1 ¼ inches and no greater than 2 inches in diameter? [505.7.1]	☐ Yes ☐ No Measurement:		Photo #:	• Replace handrails • •
2.19	If the handrail gripping surface is non-circular: Is the perimeter no less than 4 inches and no greater than 6¼ inches? Is the cross section no greater than 2¼ inches in diameter? [505.7.2]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Replace handrails • •

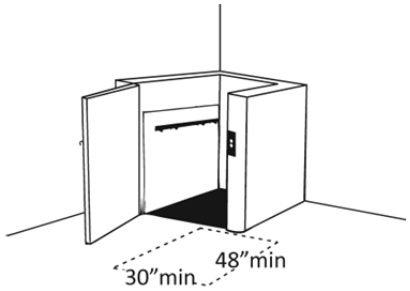
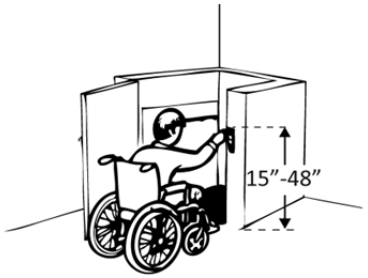
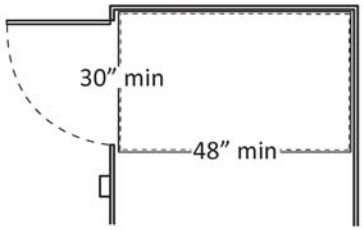
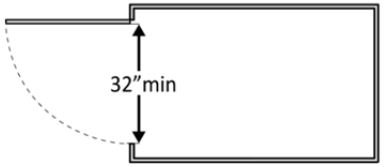
2.20	Does the handrail: Extend at least 12 inches horizontally beyond the top and bottom of the ramp? Return to a wall, guard, or landing surface? [505.10.1] Note: If a 12" extension would be hazardous (in circulation path), it is not required	☐ Yes ☐ No Measurement: ☐ Yes ☐ No		Photo #:	• Alter handrails • •
2.21	To prevent wheelchair casters and crutch tips from falling off: Does the surface of the ramp extend at least 12 inches beyond the inside face of the handrail? Or Is there a curb or barrier that prevents the passage of a 4-inch diameter sphere? [405.9.1, 405.9.2]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Add curb • Add barrier • Extend ramp width • •

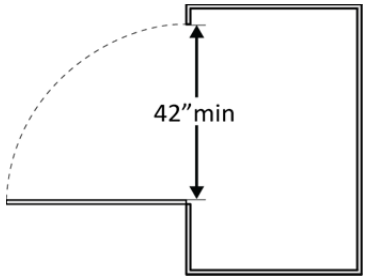
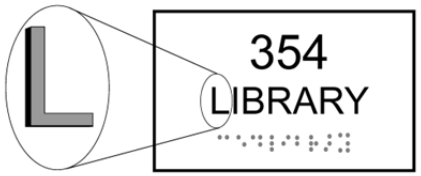
Elevators – Full Size & LULA (limited use, limited application) LULA elevators are often used in alterations.				
2.22 If there is a full size or LULA elevator, are the call buttons no higher than 54 inches above the floor? [407.2.1.1]	☐ Yes ☐ No Measurement:		Photo #:	• Change call button height • •
2.23 If there is a full size or LULA elevator, does the sliding door reopen automatically when obstructed by an object or person?* [407.3.3]	☐ Yes ☐ No		Photo #:	* If constructed before 3/15/2012 and manually operated, the door is not required to reopen automatically • Install opener
2.24 If there is a LULA elevator with a swinging door: Is the door power- operated? Does the door remain open for at least 20 seconds when activated? [403.3.2]	☐ Yes ☐ No ☐ Yes ☐ No Time:		Photo #:	• Add power operated door • Adjust opening time •
2.25 If there is a full size elevator: Is the interior at least 54 inches deep by at least 36 inches wide with at least 16 sq. ft. of clear floor area? Is the door opening width at least 32 inches? [407.4.1 Exception]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Replace elevator • •

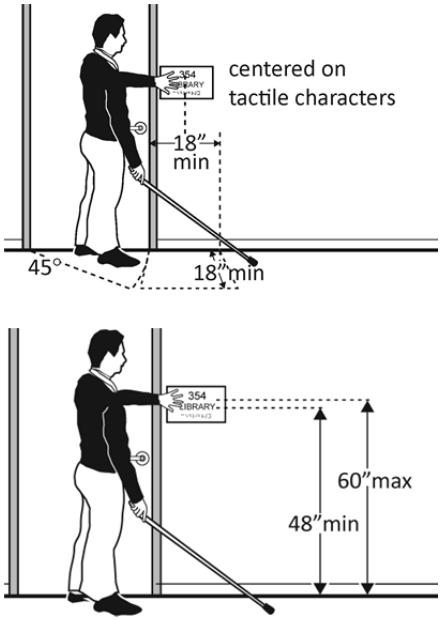
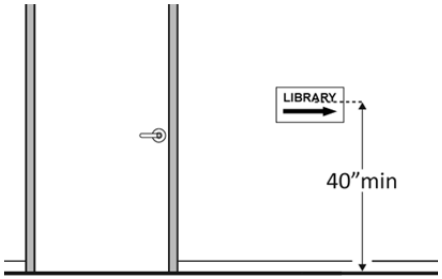
2.26	If there is a LULA elevator, is the interior: At least 51 inches deep by 51 inches wide with a door opening width of at least 36 inches? Or At least 54 inches deep by at least 36 inches wide with at least 15 sq. ft. of clear floor area and a door opening width of at least 32 inches? [408.4.1 Exceptions 1 and 2]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Replace elevator • •
2.27	If there is a full size or LULA elevator, are the in-car controls: No less than 15 inches and no greater 48 inches above the floor? Or Up to 54 inches above the floor for a parallel approach? [408.4.6, 407.4.6.1]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:	 Or 	Photo #:	• Change control height • •

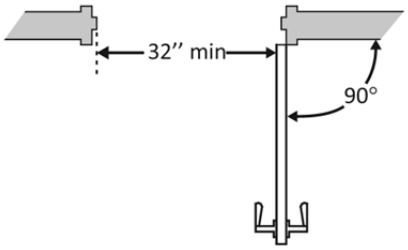
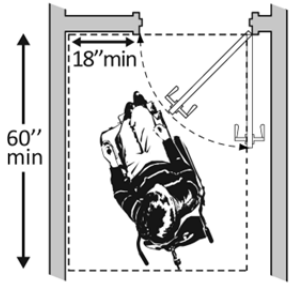
2.28	If there is a LULA elevator, are the in-car controls centered on a side wall? [408.4.6]	☐ Yes ☐ No Measurement:		Photo #:	• Reconfigure controls • •
2.29	If there is a full size or LULA elevator: Are the car control buttons designated with raised characters? Are the car control buttons designated with Braille? [407.4.7.1, 703.2]	☐ Yes ☐ No ☐ Yes ☐ No		Photo #:	• Add raised characters • Add Braille •
2.30	If there is a full size or LULA elevator, are there audible signals which sound as the car passes or is about to stop at a floor? [407.4.8]	☐ Yes ☐ No		Photo #:	• Install audible signals • •

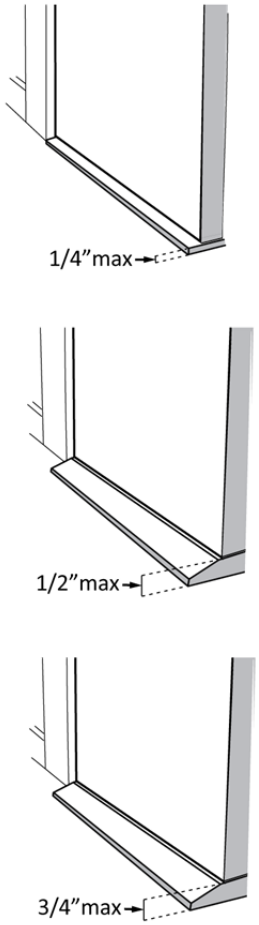
2.31	If there is a full size or LULA elevator: Is there a sign on both door jambs at every floor identifying the floor? Is there a tactile star on both jambs at the main entry level? Do text characters contrast with their backgrounds? Are text characters raised? Is there Braille? Is the sign mounted between 48 inches to the baseline of the lowest character and 60 inches to the baseline of the highest character above the floor?* [407.2.3, 408.2.3]	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No Measurement:		Photo #:	• Install signs • Change sign height • • * If constructed before 3/15/2012 and mounted no higher than 60 inches to the centerline of the sign, relocation is not required
Platform Lifts					
2.32	If a lift is provided, can it be used without assistance from others? [410.1]	☐ Yes ☐ No		Photo #:	• Reconfigure so independently operable • •

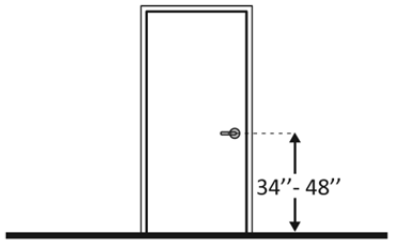
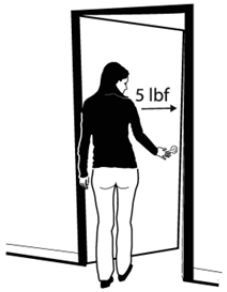
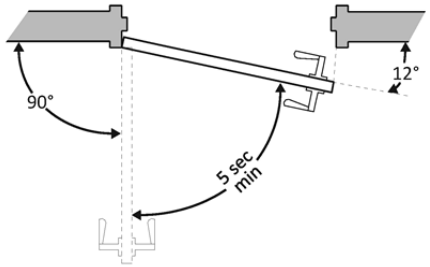
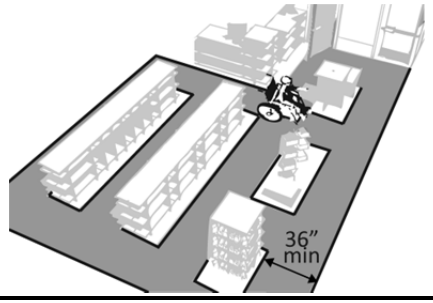
2.33	Is there a clear floor space at least 30 inches wide by at least 48 inches long for a person using a wheelchair to approach and reach the controls to use the lift? [410.5]	☐ Yes ☐ No Measurement:		Photo #:	• Remove obstructions • •
2.34	Are the lift controls no less than 15 inches and no greater than 48 inches above the floor? [410.5]	☐ Yes ☐ No Measurement:		Photo #:	• Change control height • •
2.35	Is there a clear floor space at least 30 inches wide by at least 48 inches long inside the lift? [410.3]	☐ Yes ☐ No Measurement:		Photo #:	• Replace lift • •
2.36	If there is an end door, is the clear opening width at least 32 inches? [410.6]	☐ Yes ☐ No Measurement:		Photo #:	• Alter door width • •

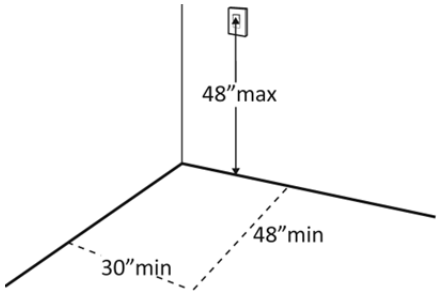
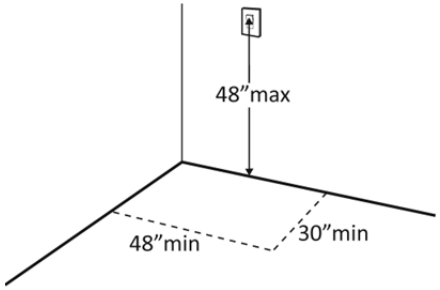
2.37	If there is a side door, is the clear opening width at least 42 inches? [410.6]	☐ Yes ☐ No Measurement:		Photo #:	• Alter door width • •
Signs	“Tactile characters” are read using touch, i.e. raised characters and Braille.				
2.38	If there are signs designating permanent rooms and spaces not likely to change over time, e.g. room numbers and letters, room names, and exit signs: [216.2]				• Install tactile sign • Relocate sign •
	Do text characters contrast with their backgrounds? [703.5]	☐ Yes ☐ No			
	Are text characters raised? [703.2]	☐ Yes ☐ No			
	Is there Braille? [703.3]	☐ Yes ☐ No			
	Is the sign mounted: On the wall on the latch side of the door? [703.4.2]	☐ Yes ☐ No			
	Note: Signs are permitted on the push side of doors with closers and without hold-open devices.				

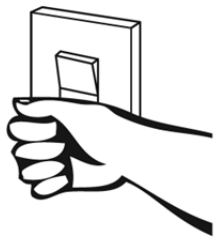
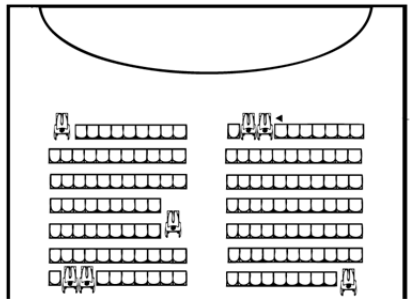
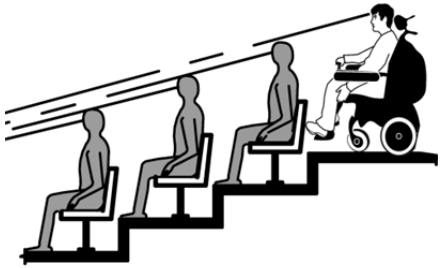
	With clear floor space beyond the arc of the door swing between the closed position and 45-degree open position, at least 18 x 18 inches centered on the tactile characters?* [703.4.2] So the baseline of the lowest character is at least 48 inches above the floor and the baseline of the highest character is no more than 60 inches above the floor? * [703.4.1] Note: If the sign is at double doors with one active leaf, the sign should be on the inactive leaf; if both leaves are active, the sign should be on the wall to the right of the right leaf.	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	*If constructed before 3/15/2012 and a person may approach within 3 inches of the sign without encountering protruding objects or standing within the door swing, relocation not required *If constructed before 3/15/2012 and mounted no higher than 60 inches to the centerline of the sign, relocation not required
2.39	If there are signs that provide direction to or information about interior spaces: Do text characters contrast with their backgrounds? [703.5.1] Is the sign mounted so that characters are at least 40 inches above the floor? [703.5.6] Note: Raised characters and Braille are not required.	☐ Yes ☐ No ☐ Yes ☐ No Measurement:		Photo #:	• Install signs with contrasting characters • Change sign height •

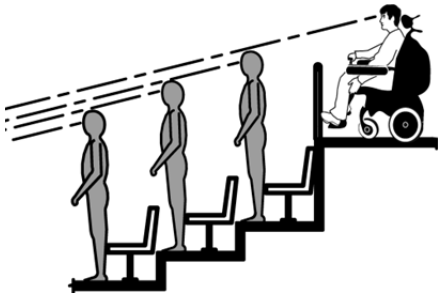
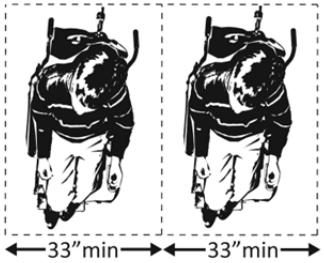
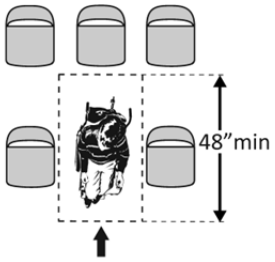
Interior Doors – to classrooms, medical exam rooms, conference rooms, etc.					
2.40	Is the door opening width at least 32 inches clear, between the face of the door and the stop, when the door is open 90 degrees? [404.2.3]	☐ Yes ☐ No Measurement:		Photo #:	• Install offset hinges • Alter the doorway •
2.41	If there is a front approach to the pull side of the door, is there at least 18 inches of maneuvering clearance beyond the latch side plus at least 60 inches clear depth? Note: See 2010 Standards 404.2.4 for maneuvering clearance requirements on the push side of the door and side approaches to the pull side of the door. On both sides of the door, is the floor surface of the maneuvering clearance level (no steeper than 1:48)? [404.2.4]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Remove obstructions • Reconfigure walls • Add automatic door opener

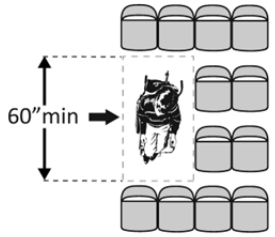
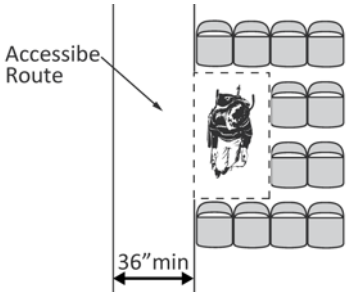
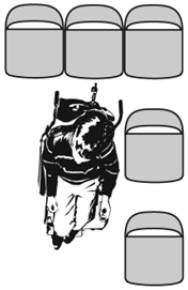
2.42	If the threshold is vertical is it no more than ¼ inch high? Or No more than ½ inch high with the top ¼ inch beveled no steeper than 1:2, if the threshold was installed on or after the 1991 ADA Standards went into effect (1/26/93)? Or No more than ¾ inch high with the top ½ inch beveled no steeper than 1:2, if the threshold was installed before the 1991 ADA Standards went into effect (1/26/93)? [404.2.5, 303.2] Note: The first ¼ inch of the ½ or ¾ inch threshold may be vertical; the rest must be beveled.	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Remove or replace threshold • •
2.43	Is the door equipped with hardware that is operable with one hand and does not require tight grasping, pinching or twisting of the wrist? Door handle? Lock (if provided)? [404.2.7]	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No		Photo #:	• Replace inaccessible knob with lever, loop or push hardware • Add automatic door opener •

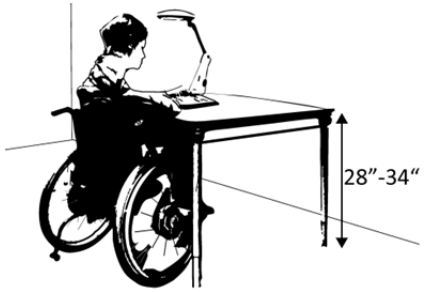
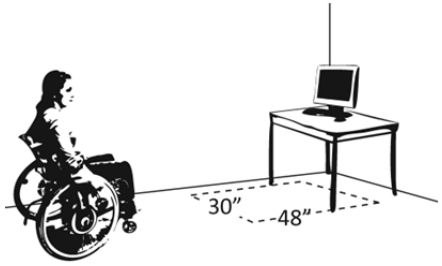
2.44	Are the operable parts of the hardware no less than 34 inches and no greater than 48 inches above the floor? [404.2.7]	☐ Yes ☐ No Measurement:		Photo #:	• Change hardware height • •
2.45	Can the door be opened easily (5 pounds maximum force)? [404.2.9] Note: You can use a pressure gauge or fish scale to measure force. If you do not have one you will need to judge whether the door is easy to open.	☐ Yes ☐ No Measurement:		Photo #:	• Adjust or replace closers • Install lighter doors • Install power-assisted or automatic door openers
2.46	If the door has a closer, does it take at least 5 seconds to close from an open position of 90 degrees to a position of 12 degrees from the latch? [404.2.8.1]	☐ Yes ☐ No Measurement:		Photo #:	• Adjust closer • •
Rooms and Spaces – stores, supermarkets, libraries, etc.					
2.47	Are aisles and pathways to goods and services, and to one of each type of sales and service counters, at least 36 inches wide? [403.5.1]	☐ Yes ☐ No Measurement:		Photo #:	• Rearrange goods, equipment and furniture • •

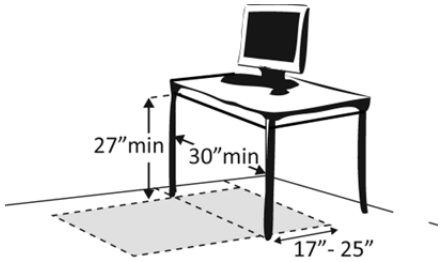
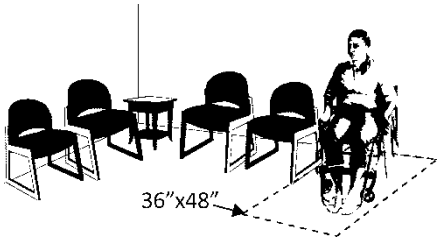
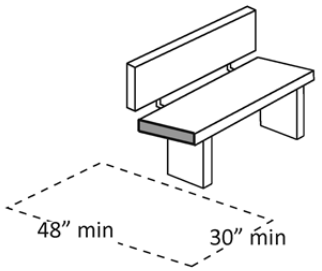
2.48	Are floor surfaces stable, firm and slip resistant? [302.1]	☐ Yes ☐ No		Photo #:	• Change floor surface • •
2.49	If there is carpet: Is it no higher than ½ inch? Is it securely attached along the edges? [302.2]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No		Photo #:	• Replace carpet • •
Controls – light switches, security and intercom systems, emergency/alarm boxes, etc.					
2.50	Is there a clear floor space at least 30 inches wide by at least 48 inches long for a forward or parallel approach? [305.3] Are the operable parts no higher than 48 inches above the floor?* [309.3, 308]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:	 	Photo #:	• Change height of control • • *If constructed before 3/15/2012 and a parallel approach is provided, controls can be 54 inches above the floor

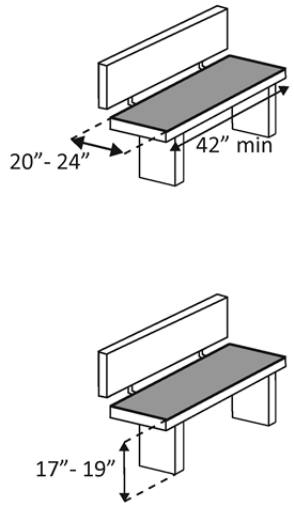
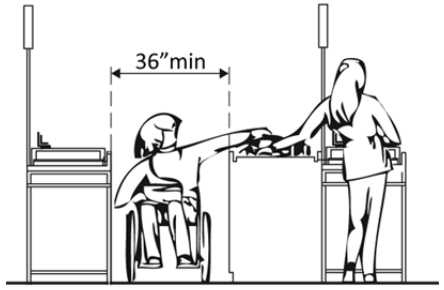
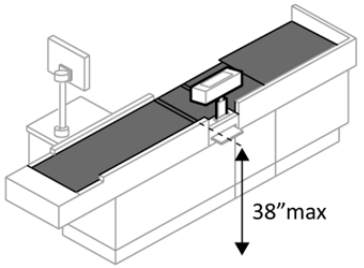
2.51	Can the control be operated with one hand and without tight grasping, pinching, or twisting of the wrist? [309.4]	☐ Yes ☐ No	 Photo #:	• Replace control • •
Seating: Assembly Areas – theaters, auditoriums, stadiums, theater style classrooms, etc.				
2.52	Are an adequate number of wheelchair spaces provided? [221.2.1]	☐ Yes ☐ No Total #: Wheelchair #:	**# of Seats** / **Wheelchair Spaces** 4 - 25 / 1 26 - 50 / 2 51 - 150 / 4 151 - 300 / 5 300+ see 2010 Standards 221.2.1. Photo #:	• Reconfigure to add wheelchair spaces • •
2.53	Are wheelchair spaces dispersed to allow location choices and viewing angles equivalent to other seating, including specialty seating areas that provide distinct services and amenities? [221.2.3]	☐ Yes ☐ No	 Photo #:	• Reconfigure to disperse wheelchair spaces • •
2.54	Where people are expected to remain seated, do people in wheelchair spaces have a clear line of sight over and between the heads of others in front of them? [802.2.1.1, 802.1.1.2]	☐ Yes ☐ No	 Photo #:	• Alter for line of sight • •

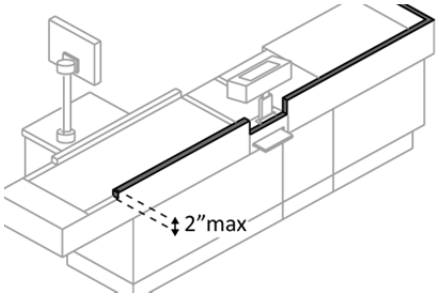
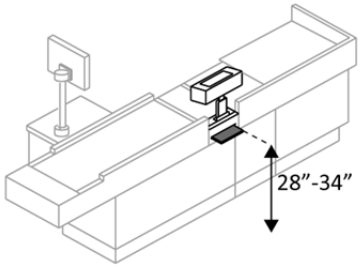
2.55	Where people are expected to stand, do people in wheelchair spaces have a clear line of sight over and between the heads of others in front of them? [802.2.2.1, 802.1.2.2]	☐ Yes ☐ No		Photo #:	• Alter for line of sight • •
2.56	If there is a single wheelchair space, is it at least 36 inches wide? [802.1.2]	☐ Yes ☐ No Measurement:		Photo #:	• Alter space • •
2.57	If there are two adjacent wheelchair spaces, are they each at least 33 inches wide? [802.1.2]	☐ Yes ☐ No Measurement:		Photo #:	• Alter spaces • •
2.58	If the wheelchair space can be entered from the front or rear, is it at least 48 inches deep? [802.1.3]	☐ Yes ☐ No Measurement:		Photo #:	• Alter space • •

2.59	If the wheelchair space can only be entered from the side, is it at least 60 inches deep? [802.1.3]	☐ Yes ☐ No Measurement:		Photo #:	• Alter space • •
2.60	Do wheelchair spaces adjoin, but not overlap, accessible routes? [802.1.4]	☐ Yes ☐ No		Photo #:	• Alter spaces • •
2.61	Is there at least one companion seat for each wheelchair space? [221.3]	☐ Yes ☐ No		Photo #:	• Add companion seats • •
2.62	Is the companion seat located so the companion is shoulder-to-shoulder with the person in a wheelchair? [802.3.1]	☐ Yes ☐ No		Photo #:	• Alter seating • •
2.63	Is the companion seat equivalent in size, quality, comfort and amenities to seating in the immediate area? [802.3.2]	☐ Yes ☐ No		Photo #:	• Add equivalent seating • •

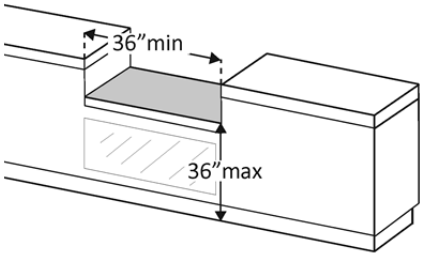
Seating: At dining surfaces (restaurants, cafeterias, bars, etc.) and non-employee work surfaces (libraries, conference rooms, etc.)				
2.64	Are at least 5%, but no fewer than one, of seating and standing spaces accessible for people who use wheelchairs? [226.1]	☐ Yes ☐ No Total #: Wheelchair #:		Photo #: • Alter to provide accessible spaces • •
2.65	Is there a route at least 36 inches wide to accessible seating? [403.5.1]	☐ Yes ☐ No Measurement:		Photo #: • Widen route • •
2.66	At the accessible space(s), is the top of the accessible surface no less than 28 inches and no greater than 34 inches above the floor? [902.3] Note: If for children, the top should be no less than 26 inches and no greater than 30 inches above the floor.	☐ Yes ☐ No Measurement:		Photo #: • Alter surface height • •
2.67	Is there a clear floor space at least 30 inches wide by at least 48 inches long for a forward approach? [305.3]	☐ Yes ☐ No Measurement:		• Alter table or work surface • Add accessible table or work surface •

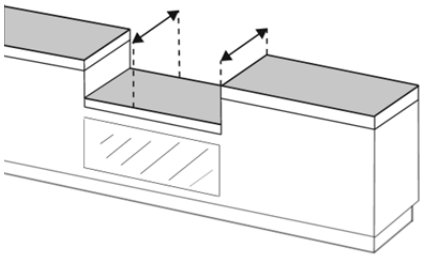
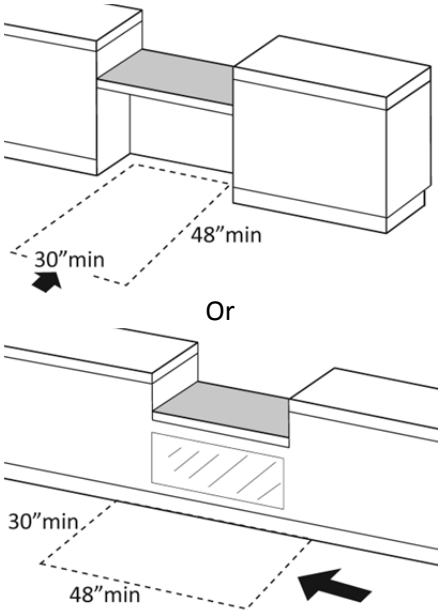
	Does it extend no less than 17 inches and no greater than 25 inches under the surface? Is there knee space at least 27 inches high and at least 30 inches wide? [306.2, 306.3] Note: If for children, the knee space may be 24 inches high.	☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	
Seating: General – reception areas, waiting rooms, etc.					
2.68	Is there at least one space at least 36 inches wide by at least 48 inches long for a person in a wheelchair? [802.1.2, 802.1.3]	☐Yes ☐No Measurement:		Photo #:	• Move furniture and equipment to provide space • •
Benches – In locker rooms, dressing rooms, fitting rooms This section does not apply to any other bences.					
2.69	In locker rooms, dressing rooms and fitting rooms, is there at least one room with a bench? [222.1, 803.4]	☐Yes ☐No		Photo #:	• Add bench • •
2.70	Is there a clear floor space at least 30 inches wide by at least 48 inches long at the end of the bench and parallel to the short axis of the bench?	☐Yes ☐No Measurement:			• Move bench • Replace bench • Affix bench to wall • •

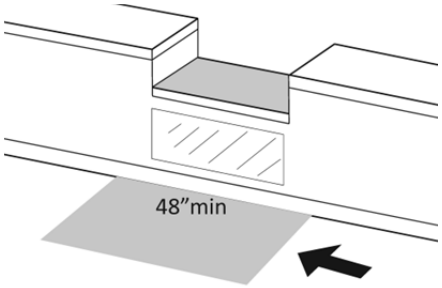
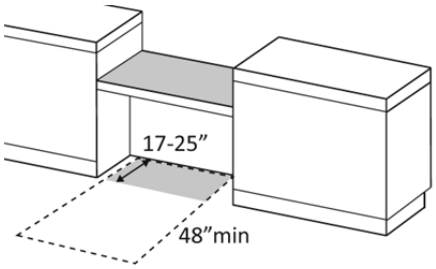
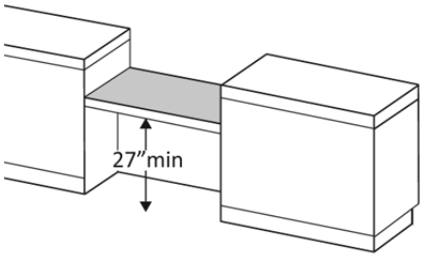
	Is the bench seat at least 42 inches long and no less than 20 inches and no greater than 24 inches deep? Does the bench have back support or is it affixed to a wall? Is the top of the bench seat no less than 17 inches and no greater than 19 inches above the floor? [903]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No ☐ Yes ☐ No Measurement:		Photo #:	
Check-Out Aisles – supermarkets, large retail stores, etc.					
2.71	Is the aisle at least 36 inches wide? [904.3.1]	☐ Yes ☐ No Measurement:		Photo #:	• Widen aisle • •
2.72	Is the counter surface of at least one aisle no higher than 38 inches above the floor? [904.3.2]	☐ Yes ☐ No Measurement:		Photo #:	• Lower counter • •

2.73	Is the top of the counter edge protection no higher than 2 inches above the counter surface? [904.3.2]	☐ Yes ☐ No Measurement:		Photo #:	• Lower edge protection • •
2.74	If there is a check writing surface, is the top no less than 28 inches and no greater than 34 inches above the floor? [904.3.3]	☐ Yes ☐ No Measurement:		Photo #:	• Alter check writing surface • •
2.75	If there is more than one check-out aisle is there a sign with the International Symbol of Accessibility at the accessible aisle? [216.11]	☐ Yes ☐ No		Photo #:	• Add sign • •

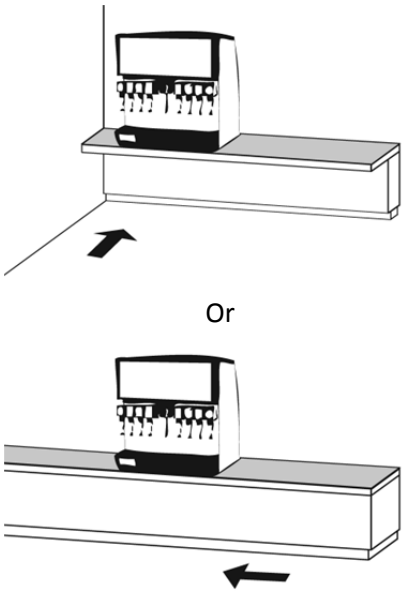
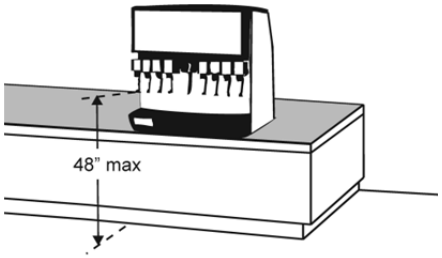
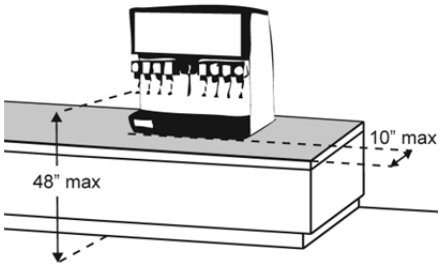
Sales & Service Counters – banks, stores, dry cleaners, auto repair shops, fitness clubs, etc.

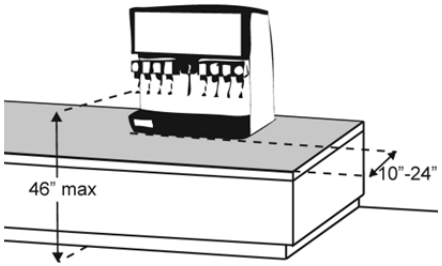
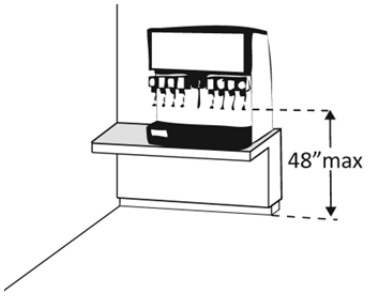
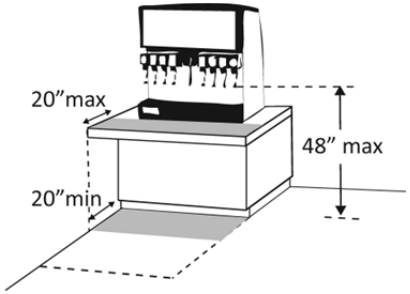
2.76	Is there a portion of at least one of each type of counter that is: No higher than 36 inches above the floor? At least 36 inches long? [904.4.1]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Lower section of counter • Lengthen section of counter •

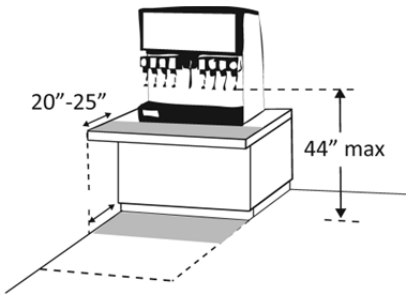
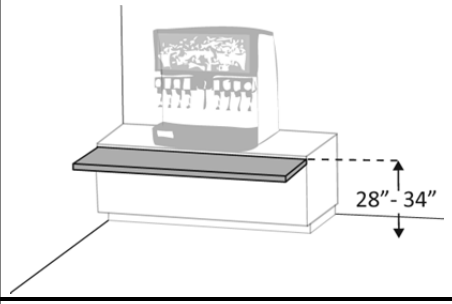
2.77	Does the accessible portion of the counter extend the same depth as the counter top? [904.4]	☐ Yes ☐ No Measurement:	 Photo #:	• Alter accessible portion • •
2.78	Is there a clear floor space at least 30 inches wide by at least 48 inches long for a forward or parallel approach? [904.4]	☐ Yes ☐ No ☐ Parallel Measurement: ☐ Forward Measurement:	 Photo #:	• Reconfigure to provide a parallel or forward approach • •

2.79	For a parallel approach, is the clear floor space positioned with the 48 inches adjacent to the accessible length of counter? [904.4.1]	☐ Yes ☐ No Measurement:		Photo #:	• If a parallel approach is not possible, a forward approach is required • •
2.80	For a forward approach: Do no less than 17 and no greater than 25 inches of the clear floor space extend under the accessible length of the counter? [306.2.2, 306.2.3] Is there at least 27 inches clearance from the floor to the bottom of the counter? [306.3.1]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:	 	Photo #:	• Reconfigure to provide knee clearance • •

Food Service Lines – in cafeterias, salad bars, eat-in fast food establishments, etc.

2.81	Does at least one of each type of self-service shelf or dispensing device for tableware, dishware, condiments, food and beverages have a forward or parallel approach? [904.5.1]	☐ Yes ☐ No ☐ Forward ☐ Parallel		Photo #:	• Reconfigure to provide approach • •
2.82	If there is an unobstructed parallel approach, is the shelf or dispensing device no higher than 48 inches above the floor? [308.3.1]	☐ Yes ☐ No Measurement:		Photo #:	• Lower shelf and/or dispensing device • •
2.83	If there is a shallow obstruction no deeper than 10 inches with a parallel approach, is the shelf or dispensing device no higher than 48 inches above the floor? [308.3.1]	☐ Yes ☐ No Measurement:		Photo #:	• Lower shelf and/or dispensing device • •

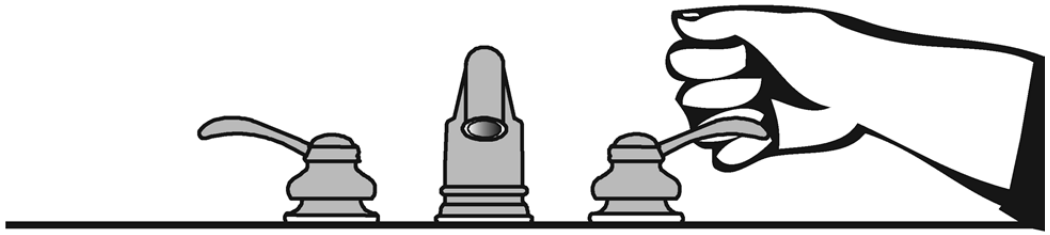
2.84	If there is an obstruction no less than 10 inches and no greater than 24 inches deep with a parallel approach, is the shelf or dispensing device no higher than 46 inches above the floor? [308.3.2]	☐ Yes ☐ No Measurement:		Photo #:	• Lower shelf and/or dispensing device • •
2.85	If there is an unobstructed forward approach, is the shelf or dispensing device no higher than 48 inches above the floor? [308.2.1]	☐ Yes ☐ No Measurement:		Photo #:	• Lower shelf and/or dispensing device • •
2.86	If there is an obstruction no deeper than 20 inches with a forward approach: Does clear floor space extend under the obstruction that is at least the same depth as the obstruction? Is the shelf or dispensing device no higher than 48 inches above the floor? [904.5.1]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Reconfigure to provide knee space • Lower shelf and/or dispensing device •

2.87	If the obstruction is no less than 20 inches and no greater than 25 inches deep with a forward approach: Does clear floor space extend under the obstruction that is at least the same depth as the obstruction? Is the shelf or dispensing device no higher than 44 inches above the floor? [904.5.1]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Reconfigure to provide knee space • Lower shelf and/or dispensing device •
2.88	If there is a tray slide, is the top no less than 28 inches and no greater than 34 inches above the floor? [904.5.2]	☐ Yes ☐ No Measurement:		Photo #:	• Reconfigure • •
		☐ Yes ☐ No		Photo #:	• • •
		☐ Yes ☐ No		Photo #:	• • •

The ADA Checklist for Existing Facilities

Priority 3 - Toilet Rooms

Based on the 2010 ADA Standards for Accessible Design



Project

Building

Location

Date

Surveyors

Contact Information

When toilet rooms are open to the public they should be accessible to people with disabilities.

Institute for Human Centered Design
www.HumanCenteredDesign.org
2014

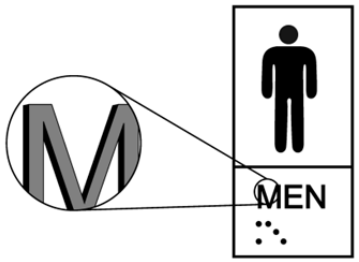
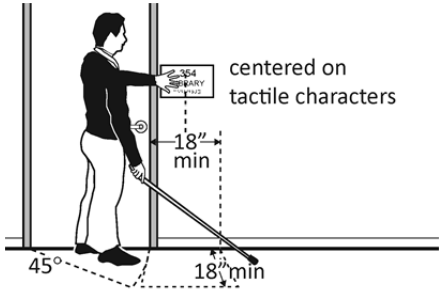
ADA National Network
Questions on the ADA 800-949-4232 voice/tty
www.ADAchecklist.org

This checklist was produced by the New England ADA Center, a project of the Institute for Human Centered Design and a member of the ADA National Network. This checklist was developed under a grant from the Department of Education, NIDRR grant number H133A060092-09A. However the contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government.

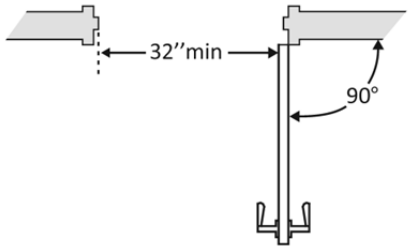
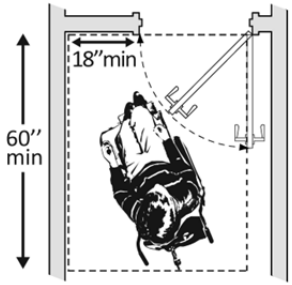
Questions or comments on the checklist contact the New England ADA Center at 617-695-0085 voice/tty or ADAinfo@NewEnglandADA.org
For the full set of checklists, including the checklists for recreation facilities visit www.ADAchecklist.org.

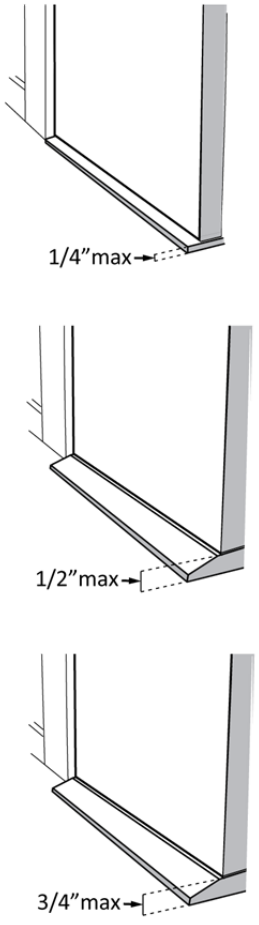
3.1	If toilet rooms are available to the public, is at least one toilet room accessible? (Either one for each sex, or one unisex.) Note: If toilet rooms are chiefly for children, e.g., in elementary schools and day care centers, use the children's specifications in Toilets - 604.1, 604.8, 604.9, 609.4 and Lavatories and Sinks – 606.2.	☐Yes ☐No		Photo #:	• Reconfigure toilet rooms • Combine toilet rooms to create one unisex accessible toilet room •
3.2	Are there signs at inaccessible toilet rooms that give directions to accessible toilet rooms? [See 2010 ADA Standards for Accessible Design – 216.8]	☐Yes ☐No		Photo #:	• Install signs • •
3.3	If not all toilet rooms are accessible, is there a sign at the accessible toilet room with the International Symbol of Accessibility? [216.8]	☐Yes ☐No		Photo #:	• Install sign • •
Accessible Route					
3.4	Is there an accessible route to the accessible toilet room? [206.2.4]	☐Yes ☐No		Photo #:	• Alter route • •

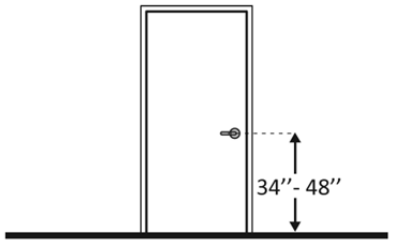
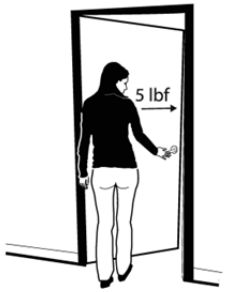
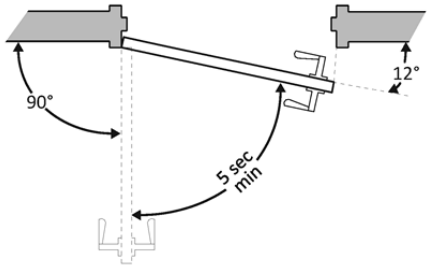
Signs at Toilet Rooms

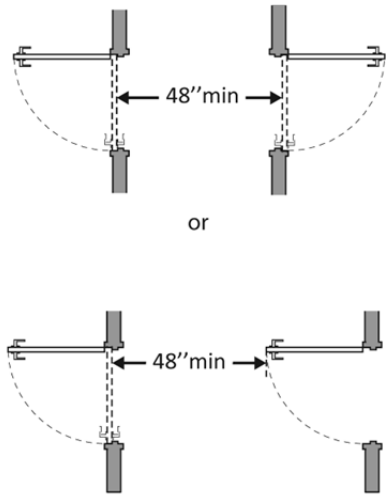
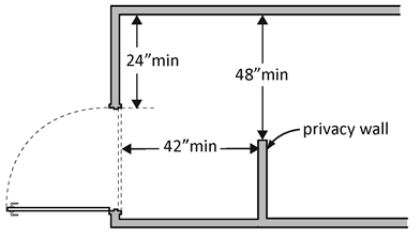
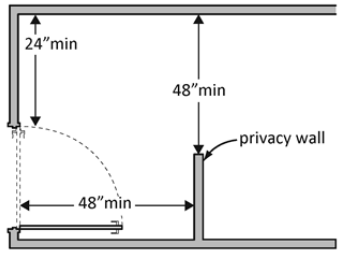
3.5	Do text characters contrast with their backgrounds? [703.5] Are text characters raised? [703.2] Is there Braille? [703.3] Is the sign mounted: On the wall on the latch side of the door? [703.4.2] Note: Signs are permitted on the push side of doors with closers and without hold-open devices. With clear floor space beyond the arc of the door swing between the closed position and 45-degree open position, at least 18 x 18 inches centered on the tactile characters? * [703.4.2] So the baseline of the lowest character is at least 48 inches above the floor and the baseline of the highest character is no more than 60 inches above the floor? * [703.4.1] Note: If the sign is at double doors with one active leaf, the sign should be on the inactive leaf; if both leaves are active, the sign should be on the wall to the right of the right leaf.	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:	 	Photo #:	• Install tactile sign • Relocate sign • *If constructed before 3/15/2012 and a person may approach within 3 inches of the sign without encountering protruding objects or standing within the door swing, relocation not required *If constructed before 3/15/2012 and mounted no higher than 60 inches to the centerline of the sign, relocation is not required

Entrance

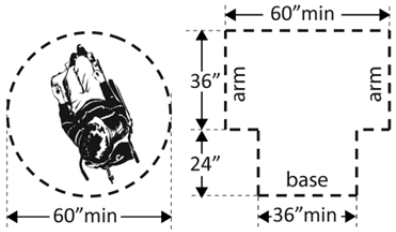
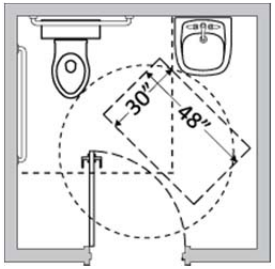
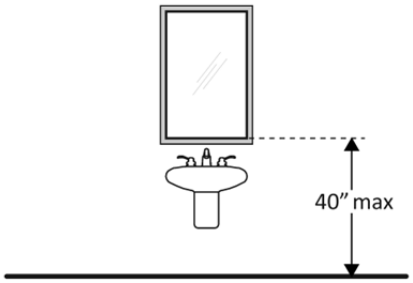
3.6	Is the door opening width at least 32 inches clear, between the face of the door and the stop, when the door is open 90 degrees? [404.2.3]	☐ Yes ☐ No Measurement:		Photo #:	• Install offset hinges • Alter the doorway •
3.7	If there is a front approach to the pull side of the door is there at least 18 inches of maneuvering clearance beyond the latch side plus 60 inches clear depth? Note: See 2010 Standards 404.2.4 for maneuvering clearance requirements on the push side of the door and side approaches to the pull side of the door On both sides of the door, is the floor surface of the maneuvering clearance level (no steeper than 1:48)? [404.2.4]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Remove obstructions • Reconfigure walls • Add automatic door opener

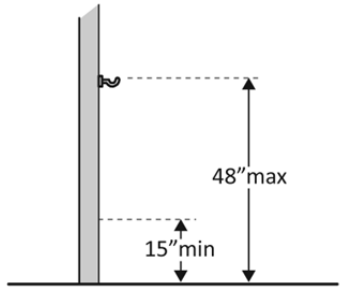
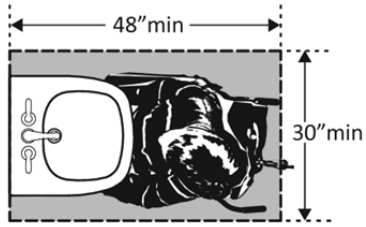
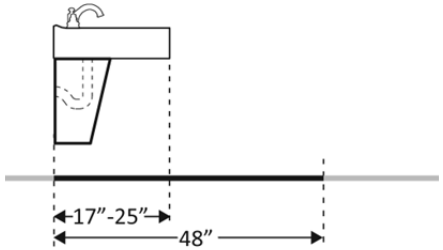
3.8	If the threshold is vertical is it no more than ¼ inch high? Or No more than ½ inch high with the top ¼ inch beveled no steeper than 1:2, if the threshold was installed on or after the 1991 ADA Standards went into effect (1/26/93)? Or No more than ¾ inch high with the top ½ inch beveled no steeper than 1:2, if the threshold was installed before the 1991 ADA Standards went into effect (1/26/93)? [404.2.5, 303.2] Note: The first ¼ inch of the ½ or ¾ inch threshold may be vertical; the rest must be beveled.	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Remove or replace threshold • •
3.9	Is the door equipped with hardware that is operable with one hand and does not require tight grasping, pinching or twisting of the wrist? Door handle? Lock (if provided)? [404.2.7]	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No		Photo #:	• Replace inaccessible knob with lever, loop or push hardware • Add automatic door opener •

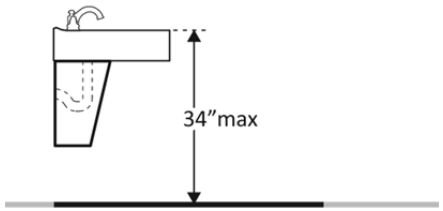
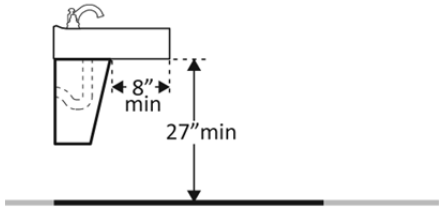
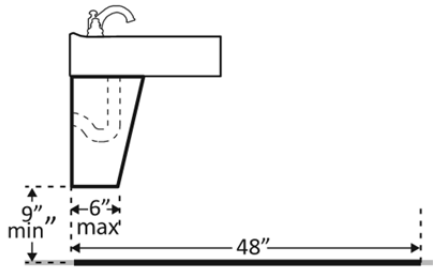
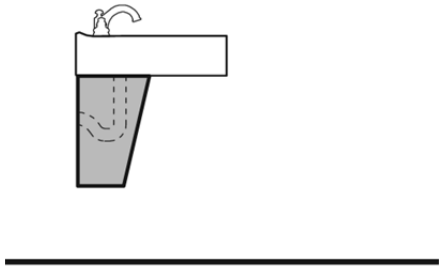
3.10	Are the operable parts of the door hardware mounted no less than 34 inches and no greater than 48 inches above the floor? [404.2.7]	☐Yes ☐No Measurement:		Photo #:	• Change hardware height • •
3.11	Can the door be opened easily (5 pounds maximum force)? [404.2.9] Note: You can use a pressure gauge or fish scale to measure force. If you do not have one you will need to judge whether the door is easy to open.	☐Yes ☐No Measurement:		Photo #:	• Adjust or replace closers • Install lighter doors • Install power-assisted or automatic door openers
3.12	If the door has a closer, does it take at least 5 seconds to close from an open position of 90 degrees to a position of 12 degrees from the latch? [404.2.8.1]	☐Yes ☐No Measurement:		Photo #:	• Adjust closer • •
3.13	If there are two doors in a series, e.g. vestibule, is the distance between the doors at least 48 inches plus the width of the doors when swinging into the space? [404.2.6]	☐Yes ☐No Measurement:	 or		• Remove inner door • Change door swing •

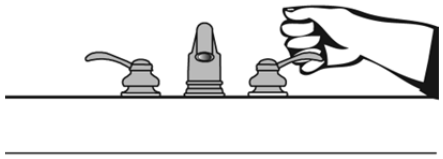
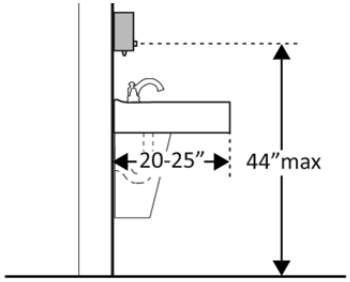
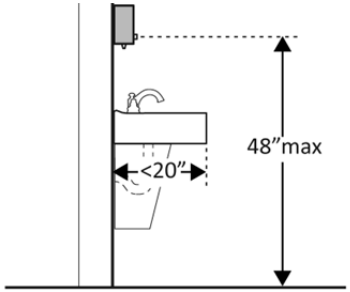
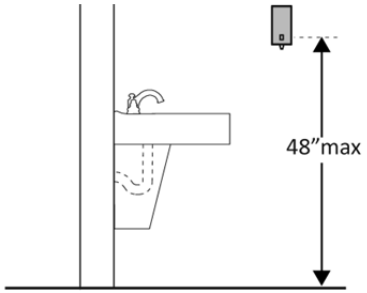
			Photo #:	
3.14	If there is a privacy wall and the door swings out, is there at least 24 inches of maneuvering clearance beyond the door latch side and 42 inches to the privacy wall? [404.2.4]	☐Yes ☐No Measurement:		Photo #:	• Reconfigure space • •
3.15	If there is a privacy wall and the door swings in, is there at least 24 inches of maneuvering clearance beyond the door latch side and at least 48 inches to the privacy wall if there is no door closer or at least 54 inches if there is a door closer? [404.2.4]	☐Yes ☐No Measurement:		Photo #:	• Reconfigure space • •

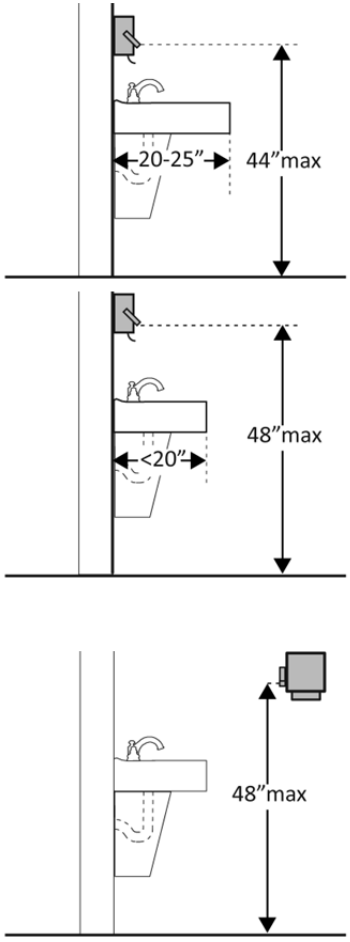
In the Toilet Room

3.16	Is there a clear path to at least one of each type of fixture, e.g. lavatory, hand dryer, etc., that is at least 36 inches wide? [403.5.1]	☐Yes ☐No Measurement:		Photo #:	• Remove obstructions • •
3.17	Is there clear floor space available for a person in a wheelchair to turn around, i.e. a circle at least 60 inches in diameter or a T-shaped space within a 60-inch square? [603.2.1]	☐Yes ☐No Measurement:		Photo #:	• Move or remove partitions, fixtures or objects such as trash cans • •
3.18	In a single user toilet room if the door swings in and over a clear floor space at an accessible fixture, is there a clear floor space at least 30 x 48 inches beyond the swing of the door? [603.2.3 Exception 2]	☐Yes ☐No Measurement:		Photo #:	• Reverse door swing • Alter toilet room •
3.19	If the mirror is over a lavatory or countertop, is the bottom edge of the reflecting surface no higher than 40 inches above the floor? Or If the mirror is not over the lavatory or countertop, is the bottom edge of the reflecting surface no higher than 35 inches above the floor?* [603.3]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	* If installed before 3/15/2012 and the bottom edge of the reflecting surface is no higher than 40 inches above the floor, lowering the mirror to 35 inches is not required • Lower the mirror • Add another mirror •

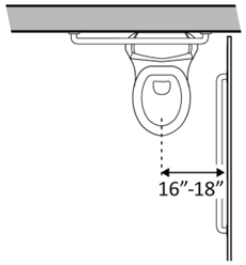
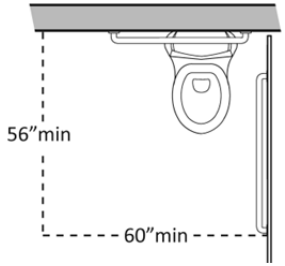
3.20	If there is a coat hook, is it no less than 15 inches and no greater than 48 inches above the floor?* [603.4]	☐Yes ☐No Measurement:		Photo #:	• Adjust hook • Replace with or provide additional accessible hook • * If installed before 3/15/2010 and the clear floor space allows a parallel approach, the coat hook may be 54 inches above the floor.
Lavatories The 2010 Standards refer to sinks in toilet rooms as lavatories.					
3.21	Does at least one lavatory have a clear floor space for a forward approach at least 30 inches wide and 48 inches long? [606.2]	☐Yes ☐No Measurement:		Photo #:	• Alter lavatory • Replace lavatory •
3.22	Do no less than 17 inches and no greater than 25 inches of the clear floor space extend under the lavatory so that a person using a wheelchair can get close enough to reach the faucet? [306.2]	☐Yes ☐No Measurement:		Photo #:	• Alter lavatory • Replace lavatory •

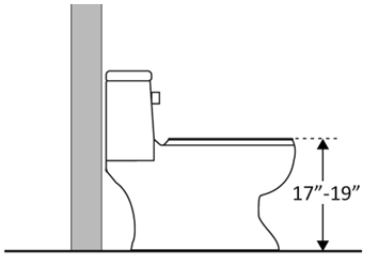
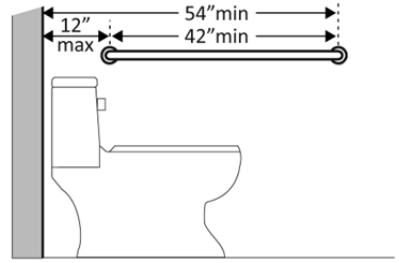
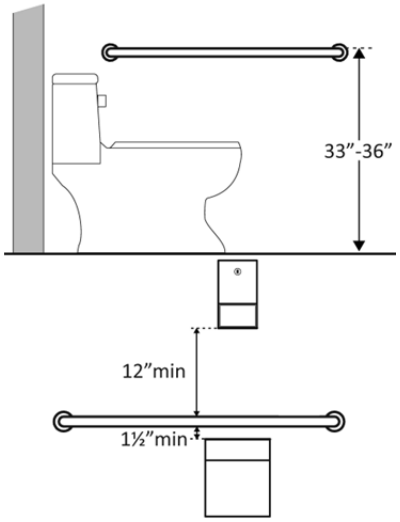
3.23	Is the front of the lavatory or counter surface, whichever is higher, no more than 34 inches above the floor? [606.3]	☐Yes ☐No Measurement:		Photo #:	• Alter lavatory • Replace lavatory •
3.24	Is there at least 27 inches clearance from the floor to the bottom of the lavatory that extends at least 8 inches under the lavatory for knee clearance? [306.3.3]	☐Yes ☐No Measurement:		Photo #:	• Alter lavatory • Replace lavatory •
3.25	Is there toe clearance at least 9 inches high? [306.3.3] Note: Space extending greater than 6 inches beyond the available toe clearance at 9 inches above the floor is not considered toe clearance.	☐Yes ☐No		Photo #:	• Alter lavatory • Replace lavatory •
3.26	Are pipes below the lavatory insulated or otherwise configured to protect against contact? [606.5]	☐Yes ☐No		Photo #:	• Install insulation • Install cover panel •

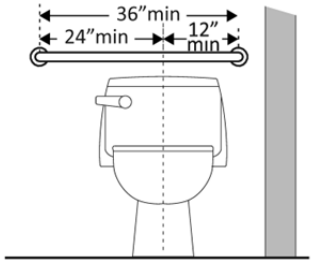
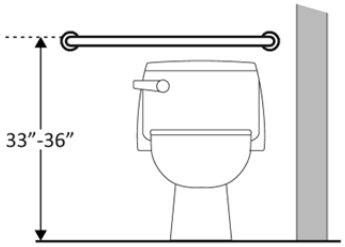
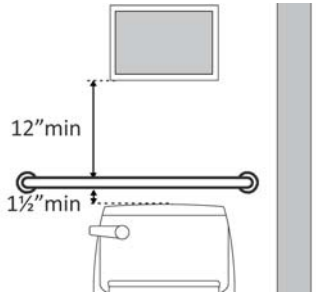
3.27	Can the faucet be operated without tight grasping, pinching, or twisting of the wrist? Is the force required to activate the faucet no greater than 5 pounds? [606.4]	☐Yes ☐No ☐Yes ☐No		Photo #:	• Adjust faucet • Replace faucet •
Soap Dispensers and Hand Dryers					
3.28	Are the operable parts of the soap dispenser within one of the following reach ranges: Above lavatories or counters no less than 20 inches and no greater than 25 inches deep: no higher than 44 inches above the floor? [308.2.2] Above lavatories less than 20 inches deep: no higher than 48 inches above the floor? Not over an obstruction: no higher than 48 inches above the floor? [308.2]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement:	  	Photo #:	• Adjust dispensers • Replace with or provide additional accessible dispensers •

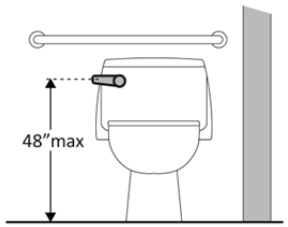
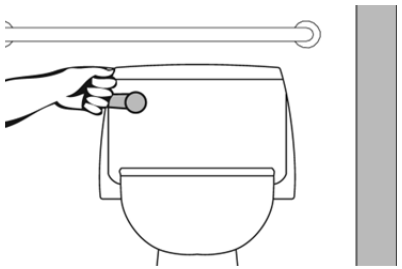
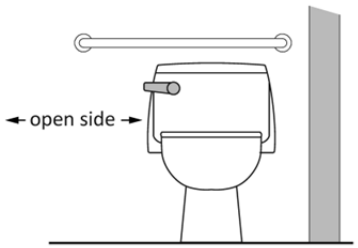
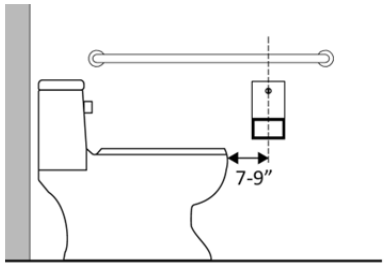
3.29 Are the operable parts of the hand dryer or towel dispenser within one of the following reach ranges: Above lavatories or counters no less than 20 inches and no greater than 25 inches deep: no higher than 44 inches above the floor? Above lavatories less than 20 inches deep: no higher than 48 inches above the floor? Not over an obstruction: no higher than 48 inches above the floor? [308.2] Can the operable parts of the hand dryer or towel dispenser be operated without tight grasping, pinching or twisting of the wrist? Is the force required to activate the hand dryer or towel dispenser no greater than 5 pounds? [309.4]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement:		Photo #:	• Adjust dispensers • Replace with or provide additional accessible dispensers •

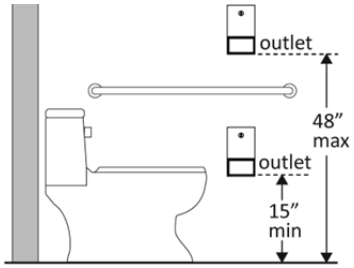
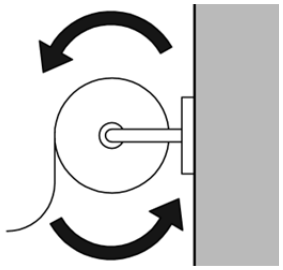
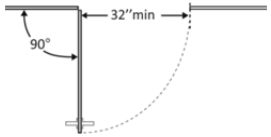
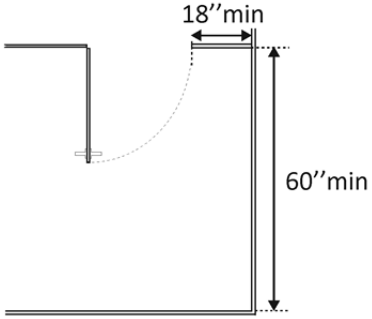
Water Closets in Single-User Toilet Rooms and Compartments (Stalls) The 2010 Standards refer to toilets as water closets.

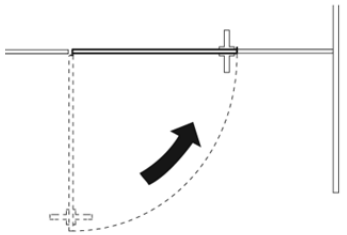
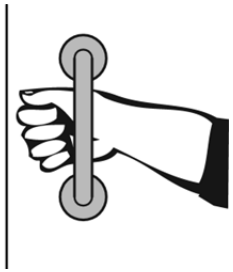
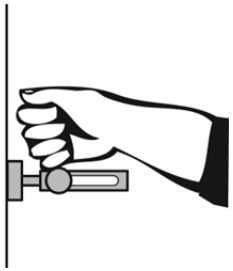
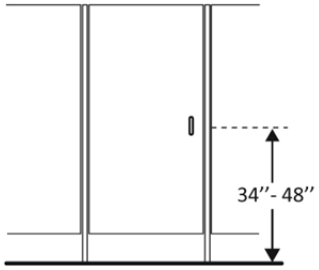
3.30	Is the centerline of the water closet no less than 16 inches and no greater than 18 inches from the side wall or partition? [604.2]	☐Yes ☐No Measurement:		Photo #:	• Move toilet • Replace toilet • Move partition •
3.31	Is clearance provided around the water closet measuring at least 60 inches from the side wall and at least 56 inches from the rear wall?* [604.3.1]	☐Yes ☐No Measurement:		Photo #:	* If constructed before 3/15/12, clearances around water closets in single user toilet rooms can be 48 inches wide by 66 inches long or 48 inches wide by 56 inches long (depending on the approach to the water closet, see 1991 Standards Figure 28) and the lavatory may overlap that clearance if the door to the room does not swing into the required clearances at fixtures (such as lavatories, water closet and urinals) and the edge of the lavatory is at least 18 inches from the centerline of the water closet • Alter room/compartment for clearance • •

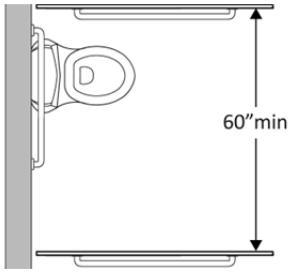
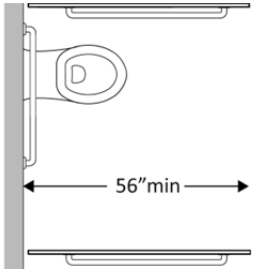
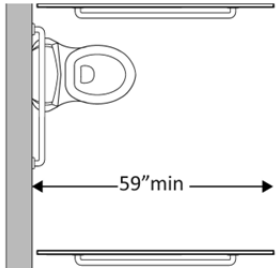
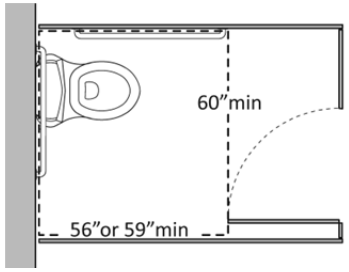
3.32	Is the height of the water closet no less than 17 inches and no greater than 19 inches above the floor measured to the top of the seat? [604.4]	☐Yes ☐No Measurement:		Photo #:	• Adjust toilet height • Replace toilet •
3.33	Is there a grab bar at least 42 inches long on the side wall? Is it located no more than 12 inches from the rear wall? Does it extend at least 54 inches from the rear wall? [604.5.1] Is it mounted no less than 33 inches and no greater than 36 inches above the floor to the top of the gripping surface? [609.4] Is there at least 12 inches clearance between the grab bar and protruding objects above?* Is there at least 1½ inches clearance between the grab bar and projecting objects below?* Is the space between the wall and the grab bar 1 ½ inches? [609.3]	☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement: ☐Yes ☐No Measurement:	 	Photo #:	• Install grab bar • Relocate grab bar • Relocate objects • * If constructed before 3/15/2012 grab bars do not need to be relocated; there are no space requirements above and below grab bars in the 1991 Standards

3.34	Is there a grab bar at least 36 inches long on the rear wall?	☐Yes ☐No Measurement:		Photo #:	• Install grab bar • Relocate grab bar • Relocate objects •
	Does it extend at least 12 inches from the centerline of the water closet on one side (side wall)?	☐Yes ☐No Measurement:			
	Does it extend at least 24 inches on the other (open) side? [604.5.2]	☐Yes ☐No Measurement:			
	Is it mounted no less than 33 inches and no greater than 36 inches above the floor to the top of the gripping surface? [609.4]	☐Yes ☐No Measurement:			
	Are there at least 12 inches clearance between the grab bar and protruding objects above?*	☐Yes ☐No Measurement:			* If constructed before 3/15/2012 grab bars do not need to be relocated; there are no space requirements above and below grab bars in the 1991 Standards
	Are there at least 1½ inches clearance between the grab bar and projecting objects below?*	☐Yes ☐No Measurement:			
	Is the space between the wall and the grab bar 1½ inches? [609.3]	☐Yes ☐No Measurement:			

3.35	If the flush control is hand operated, is the operable part located no higher than 48 inches above the floor? [604.6]	☐Yes ☐No Measurement:		Photo #:	• Move control • Install sensor with override button no higher than 48 inches •
3.36	If the flush control is hand operated, can it be operated with one hand and without tight grasping, pinching, or twisting of the wrist? Is the force required to activate the flush control no greater than 5 pounds? [605.4]	☐Yes ☐No ☐Yes ☐No Measurement:		Photo #:	• Change control • Adjust control •
3.37	Is the flush control on the open side of the water closet? [604.6]	☐Yes ☐No		Photo #:	• Move control • •
3.38	Is the toilet paper dispenser located no less than 7 inches and no greater than 9 inches from the front of the water closet to the centerline of the dispenser?* [604.7]	☐Yes ☐No Measurement:		Photo #:	* If constructed before 3/15/2012 dispenser does not need to be relocated if it is within reach from the water closet seat; the 1991 Standards do not specify distance from the front of the water closet • Relocate dispenser •

3.39	Is the outlet of the dispenser: Located no less than 15 inches and no greater than 48 inches above the floor? Not located behind grab bars? [604.7]	☐Yes ☐No Measurement: ☐Yes ☐No		Photo #:	• Relocate dispenser • •
3.40	Does the dispenser allow continuous paper flow? [604.7]	☐Yes ☐No		Photo #:	• Adjust dispenser • Replace dispenser •
Toilet Compartments (Stalls)					
3.41	Is the door opening width at least 32 inches clear, between the face of the door and the stop, when the door is open 90 degrees? [604.8.1.2]	☐Yes ☐No Measurement:		Photo #:	• Widen door width • •
3.42	If there is a front approach to the pull side of the door, is there at least 18 inches of maneuvering clearance beyond the latch side plus 60 inches clear depth? [604.8.1.2] Note: See 2010 Standards 604.8.1.2 Doors for maneuvering clearance requirements on the push side of the door and side approaches to the pull side of the door	☐Yes ☐No Measurement:		Photo #:	• Remove obstructions • •

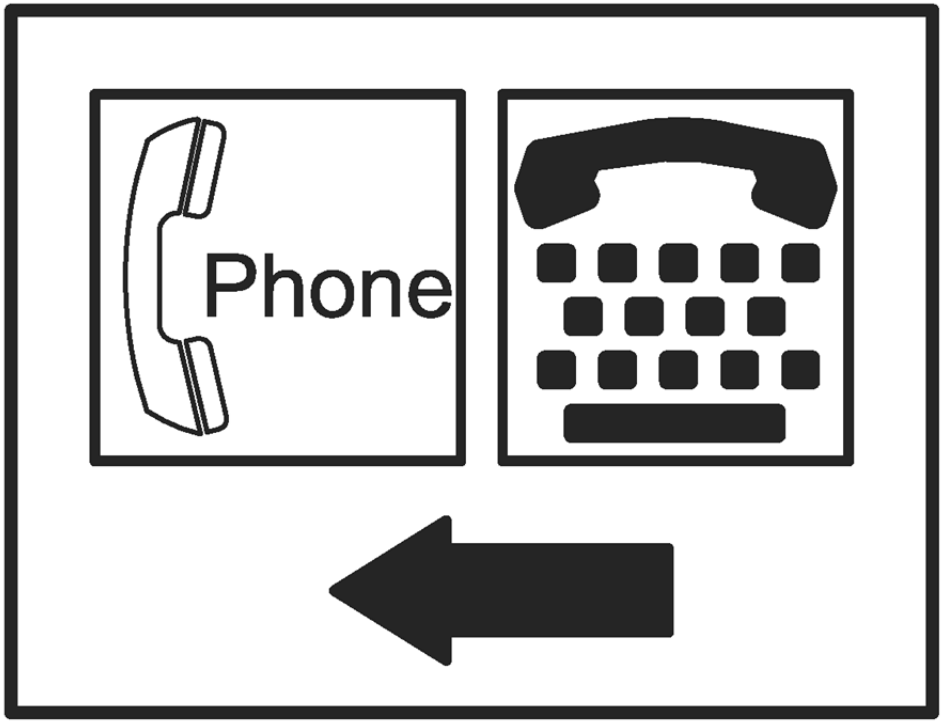
3.43	Is the door self-closing? [604.8.1.2]	☐Yes ☐No	 Photo #:	• Add closer • Replace door •
3.44	Are there door pulls on both sides of the door that are operable with one hand and do not require tight grasping pinching or twisting of the wrist?* [604.8.1.2]	☐Yes ☐No	 Photo #:	* If constructed before 3/15/2012 door pulls do not need to be added; door pulls are not required in the 1991 Standards • Replace hardware • •
3.45	Is the lock operable with one hand and without tight grasping, pinching or twisting of the wrist? [309.4]	☐Yes ☐No	 Photo #:	• Replace lock • •
3.46	Are the operable parts of the door hardware mounted no less than 34 inches and no greater than 48 inches above the floor? [404.2.7]	☐Yes ☐No Measurement:	 Photo #:	• Relocate hardware • •

3.47	Is the compartment at least 60 inches wide? [604.8.1.1]	☐Yes ☐No Measurement:		Photo #:	• Widen compartment • •
3.48	If the water closet is wall hung, is the compartment at least 56 inches deep? [604.8.1.1]	☐Yes ☐No Measurement:		Photo #:	• Widen compartment • •
3.49	If the water closet is floor mounted, is the compartment at least 59 inches deep? [604.8.1.1]	☐Yes ☐No Measurement:		Photo #:	• Alter compartment • •
3.50	If the door swings in, is the minimum required compartment area provided beyond the swing of the door (60 inches x 56 inches if water closet is wall hung or 59 inches if water closet is floor mounted)? [604.8.1.1]	☐Yes ☐No Measurement:		Photo #:	• Reverse door swing • Alter compartment •

ADA Checklist for Existing Facilities

Priority 4 – Additional Access

Based on the 2010 ADA Standards for Accessible Design



Project

Building

Location

Date

Surveyors

Contact Information

Amenities such as drinking fountains and public telephones should be accessible to people with disabilities.

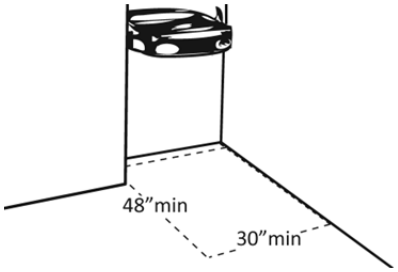
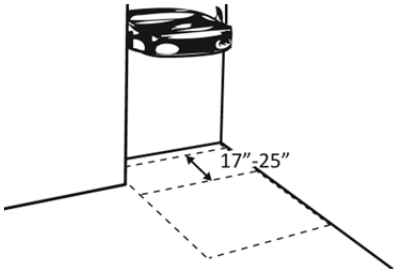
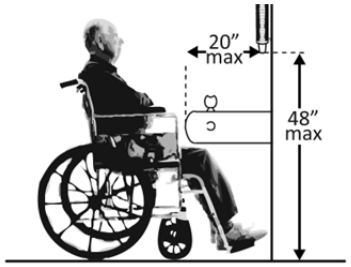
Institute for Human Centered Design
www.HumanCenteredDesign.org
2014

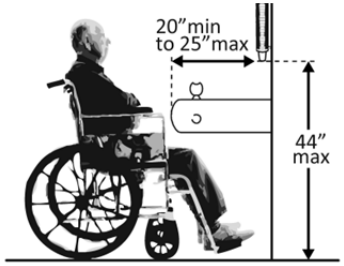
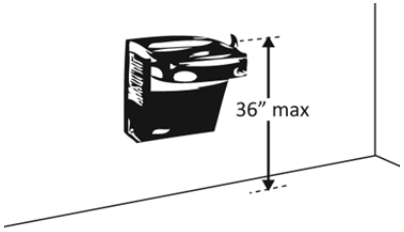
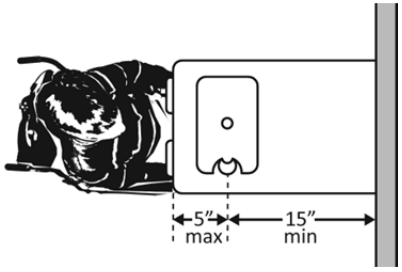
ADA National Network
Questions on the ADA 800-949-4232 voice/tty
www.ADAchecklist.org

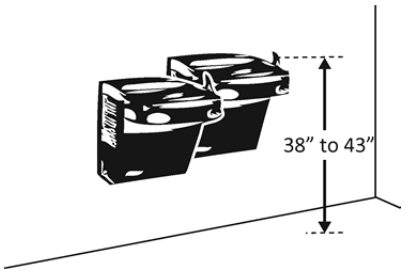
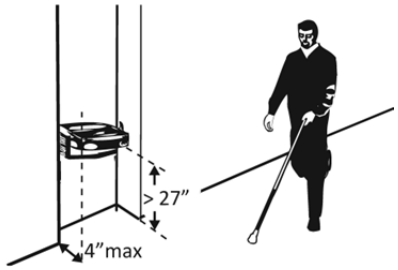
This checklist was produced by the New England ADA Center, a project of the Institute for Human Centered Design and a member of the ADA National Network. This checklist was developed under a grant from the Department of Education, NIDRR grant number H133A060092-09A. However the contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government.

Questions or comments on the checklist contact the New England ADA Center at 617-695-0085 voice/tty or ADAinfo@NewEnglandADA.org
For the full set of checklists, including the checklists for recreation facilities visit www.ADAchecklist.org.

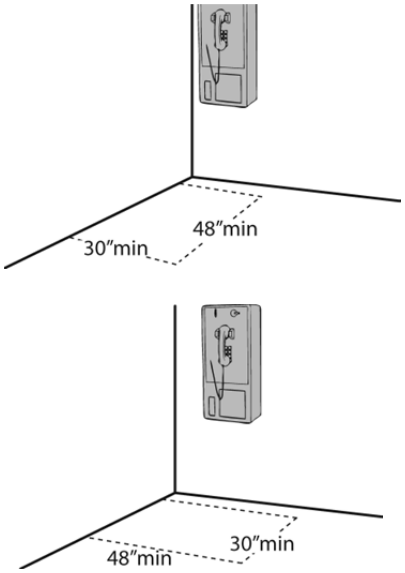
Drinking Fountains

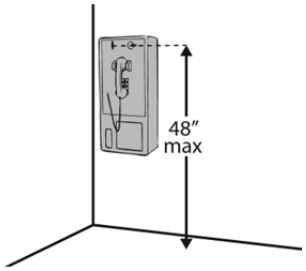
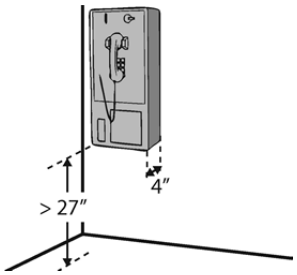
4.1	Does at least one drinking fountain have a clear floor space at least 30 inches wide x at least 48 inches long centered in front of it for a forward approach?* [See 2010 ADA Standards for Accessible Design – 602.2]	☐Yes ☐No Measurement:		Photo #:	*If installed before 3/15/2012, a parallel approach is permitted and the clear floor space is not required to be centered • Alter space • Relocate drinking fountain • Install a drinking fountain in another location
4.2	If there is a forward approach, do no less than 17 inches and no greater than 25 inches of the clear floor space extend under the drinking fountain? [306.2.2, 306.2.3] Note: If the drinking fountain is primarily for children's use and the spout is no more than 30 inches above the floor and no more than 3 ½ inches from the edge of the unit, a parallel approach is permitted.	☐Yes ☐No Measurement:		Photo #:	• Alter space • Replace drinking fountain •
4.3	If the drinking fountain is no deeper than 20 inches, are the operable parts no higher than 48 inches above the floor? [308.2.2]	☐Yes ☐No Measurement:		Photo #:	• Adjust drinking fountain • Replace drinking fountain •

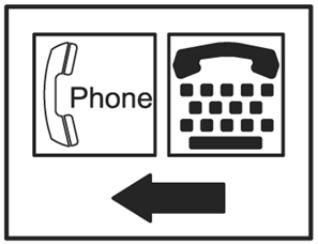
4.4	If the drinking fountain is no less than 20 inches and no greater than 25 inches deep, are the operable parts no higher than 44 inches above the floor? [308.2.2]	☐ Yes ☐ No Measurement:		Photo #:	• Adjust drinking fountain • Replace drinking fountain •
4.5	Can the control be operated with one hand and without tight grasping, pinching or twisting of the wrist? Is the force required to activate the control no more than 5 pounds? [309.4]	☐ Yes ☐ No ☐ Yes ☐ No Measurement:		Photo #:	• Change control • Adjust control •
4.6	Is the spout outlet no higher than 36 inches above the floor? [602.4]	☐ Yes ☐ No Measurement:		Photo #:	• Adjust drinking fountain • Replace drinking fountain •
4.7	Is the spout: At least 15 inches from the rear of the drinking fountain? No more than 5 inches from the front of the drinking fountain? [602.5]	☐ Yes ☐ No Measurement: ☐ Yes ☐ No Measurement:		Photo #:	• Adjust spout • Replace drinking fountain •

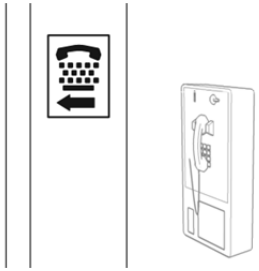
4.8	If there is more than one drinking fountain, is there at least one for standing persons? [211.2] Is the spout outlet no lower than 38 inches and no higher than 43 inches above the floor? [602.7]	☐ Yes ☐ No ☐ Yes ☐ No Measurement:		Photo #:	• Adjust drinking fountain • Install new drinking fountain for standing height •
4.9	If the leading (bottom) edge of the fountain is higher than 27 inches above the floor, does the front of the fountain protrude no more than 4 inches into the circulation path? [307.2]	☐ Yes ☐ No Measurement:		Photo #:	• Adjust drinking fountain • Replace drinking fountain • Add tactile warning such as permanent planter or partial walls

Public Telephones

4.10	Does at least one telephone have a clear floor space at least 30 inches wide x at least 48 inches long for a parallel or forward approach? [704.2.1]	☐ Yes ☐ No		Photo #:	• Move telephone • Install new telephone for clear floor space •

4.11	Is the highest operable part of the telephone no higher than 48 inches above the floor? [704.2.2]	☐Yes ☐No Measurement:		Photo #:	• Adjust telephone • •
4.12	If the leading (bottom) edge of the telephone is higher than 27 inches above the floor, does the front of the telephone protrude no more than 4 inches into the circulation path? [307.2]	☐Yes ☐No Measurement:		Photo #:	• Adjust telephone • •
4.13	Does at least one telephone have a volume control? [704.3]	☐Yes ☐No		Photo #:	• Install volume control • Replace telephone with one that has volume control •
4.14	Is the volume control identified by a pictogram of a telephone handset with radiating sound waves? [703.7.2.3]	☐Yes ☐No		Photo #:	• Add pictogram • •

4.15	Does at least one telephone have a TTY? [217.4.1] Note: TTY's are devices that employ interactive text-based communication through the transmission of coded signals across the telephone network. They are mainly used by people who are deaf and/or cannot speak.	☐ Yes ☐ No		Photo #:	• Install TTY • •
4.16	Is the touch surface of the TTY keypad at least 34 inches above the floor? [704.4.1] Note: If a seat is provided, the TTY is not required to be 34 inches minimum above the floor.	☐ Yes ☐ No Measurement:		Photo #:	• Adjust height of TTY • •
4.17	Is the TTY identified by the International Symbol of TTY? [703.7.2.2]	☐ Yes ☐ No		Photo #:	• Add symbol • •
4.18	Do signs that provide direction to public telephones also provide direction to the TTY? [216.9.2]	☐ Yes ☐ No		Photo #:	• Add signs • •

4.19	Do telephones that do not have a TTY provide direction to the TTY? [216.9.2]	☐ Yes ☐ No		Photo #:	• Add signs • •
Fire Alarm Systems					
4.20	If there are fire alarm systems, do they have both flashing lights and audible signals? [702.1]	☐ Yes ☐ No		Photo #:	• Install audible and visual alarms • •

Additional Excerpts from the U.S. Department of Justice
Checklist for Emergency Shelters

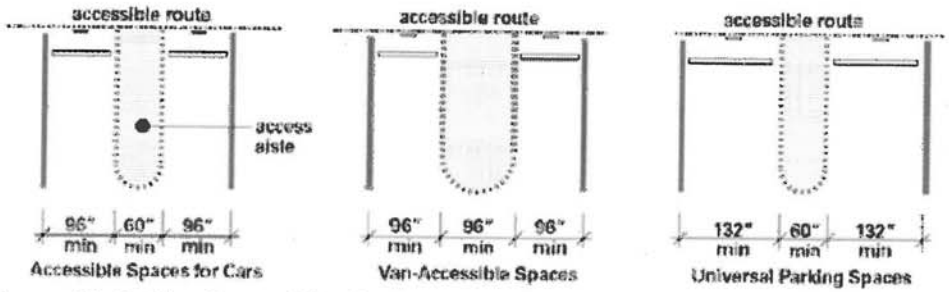
2. Parking Spaces Checklist

B1. When parking areas are provided at the shelter site, count the total number of parking spaces provided in each area. Is the minimum number of accessible parking spaces provided, based on the total number of available parking spaces (see table below)? [ADA Standards § 4.1.2(5)(a)] Yes ____ No ____

Total Number of Parking Spaces in Each Parking Area	Required Minimum Number of Accessible Spaces
1 - 25	1 van-accessible space w/min. 96-inch-wide access aisle (van space)
26 - 50	1 space w/min. 60-inch-wide access aisle + 1 van space
51 - 75	2 spaces w/min. 60-inch-wide access aisle + 1 van space
76 - 100	3 spaces w/min. 60-inch-wide access aisle + 1 van space
101 - 150	4 spaces w/min. 60-inch-wide access aisle + 1 van space

If more than 150 parking spaces are provided in a particular lot, see section 4.1.2 of the ADA Standards for the number of accessible parking spaces required.

B2. Does each accessible parking space have its own, or share, an adjacent access aisle that is least 60 inches (5 feet) wide? [ADA Standards § 4.6.3] Yes ____ No ____



Accessible Parking Spaces Showing Minimum Width of Vehicle Space and Access Aisle

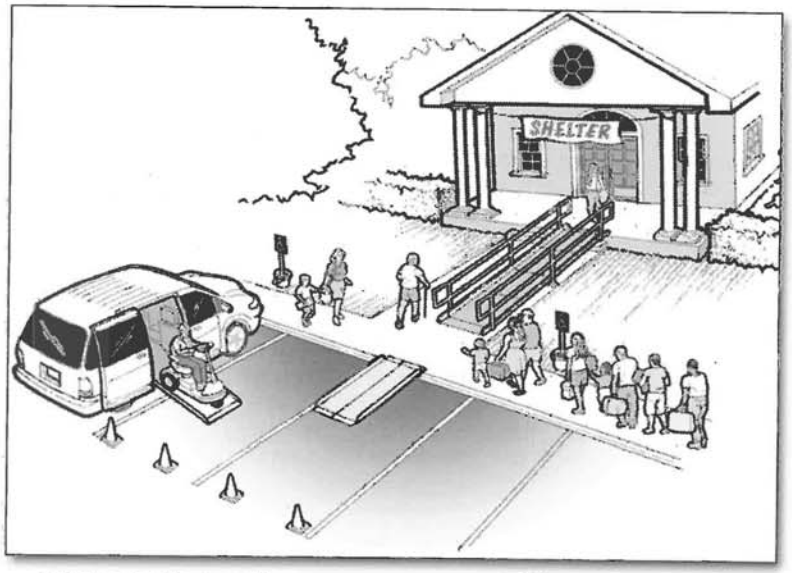
Notes/Comments

3. Temporary Solutions for Emergency Sheltering - Parking

Problem: Parking at the shelter facility either has no accessible parking, not enough accessible parking, or accessible parking spaces are not on level ground.

Suggestion: Find a fairly level parking area near the accessible entrance and mark the area for accessible parking spaces. Three regular parking spaces will make two accessible parking spaces with a shared access aisle. Provide a sign designating each accessible parking space. Ensure there is an accessible route from each access aisle to the accessible entrance.

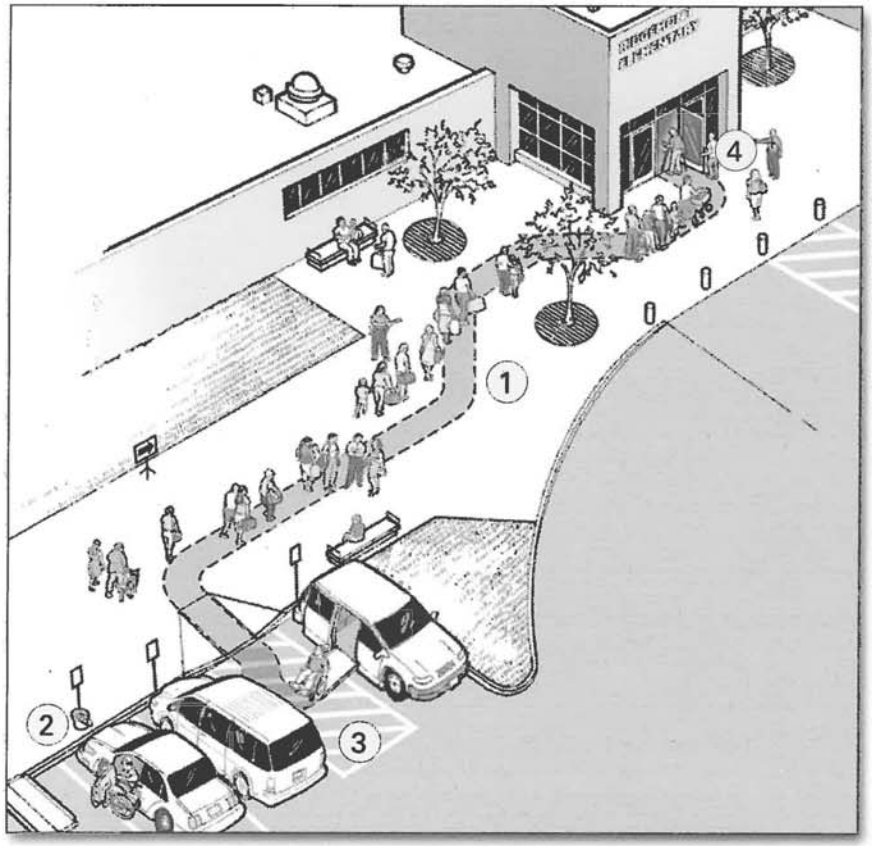
If temporary accessible spaces are used, mark the temporary accessible parking spaces with traffic cones or other temporary elements. Traffic cones can also be used to mark off an access aisle if designated accessible parking spaces lack an access aisle or if the access aisle is too narrow. At least one accessible parking space should be a van-accessible parking space with an access aisle that is at least 96 inches wide.



Three standard parking spaces are converted into an accessible parking space with an access aisle. Cones mark the access aisle and a temporary curb ramp with edge protection connects to an accessible route to the shelter.

C. Sidewalks and Walkways

1. Typical Issues for Individuals Who Use Wheelchairs, Scooters, or other Mobility Devices



An accessible entrance to a shelter with accessible parking and an accessible drop-off area

An accessible route connects accessible passenger drop-off areas, accessible parking spaces, and other accessible elements, like a route from a bus stop, to an accessible building entrance. The accessible route is essential for people who have difficulty walking or who use wheelchairs or other mobility aids to get to the accessible entrance of the shelter. The accessible route must be at least 36 inches wide (it may narrow briefly to 32 inches wide where utility poles, signs, etc. are located along the accessible route). Abrupt level changes, steps, or steep running or cross slopes cannot be part of an accessible route. Where ramps are used, they cannot be steeper than 1:12. Ramps with a vertical rise of more than 6 inches must have handrails on both sides. Ramps must also have edge protection to stop wheelchairs from falling off the sides, and level landings at the top and bottom of each segment and where the ramp changes direction.

Notes:

(1) Accessible route

(2) Accessible drop-off area

(3) Accessible parking with van-accessible parking space

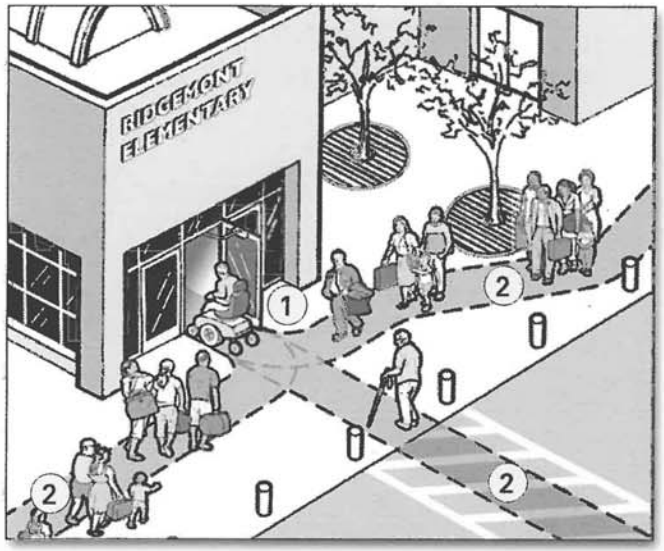
(4) Accessible entrance to shelter

D. Entering the Emergency Shelter

Building Entrance

A shelter must have at least one accessible entrance that is on an accessible route. An accessible entrance must provide at least one accessible door with maneuvering space, accessible hardware, and enough clear width to allow people who use crutches, a cane, walker, scooter, or wheelchair to use it.

If the accessible entrance is not the main entrance to the facility that is being used as a shelter, signs must be located at inaccessible entrances to direct evacuees and volunteers to the accessible entrance. The accessible entrance must be unlocked when other shelter entrances are unlocked.



Notes:

(1) Accessible entrance to the shelter.

(2) Accessible route connecting accessible parking and drop-off area (if provided) to the accessible entrance.

Examples of signs for inaccessible shelter entrances directing people to the accessible entrance.

F. Check-In Areas

A shelter usually has one or more check-in areas located near the entrance to the shelter. When check-in areas are provided, then at least one accessible check-in location should be provided. The accessible check-in area should be at the accessible entrance or signs should give directions to the accessible check-in area.

If a permanent reception counter is used for check-in, make sure to provide a writing surface at an accessible height for people who use a wheelchair, scooter, or other mobility device. This may be a part of the reception counter that is no higher than 36 inches above the floor, a folding shelf or an adjacent table, or a clip board.

An accessible check-in location using a folding table with a height that people who use wheelchairs can easily reach.

F1. Is there an accessible route that connects the accessible entrance to areas that are likely to be used to register people as they arrive at the shelter? [ADA Standards § 4.3] Yes ____ No ____

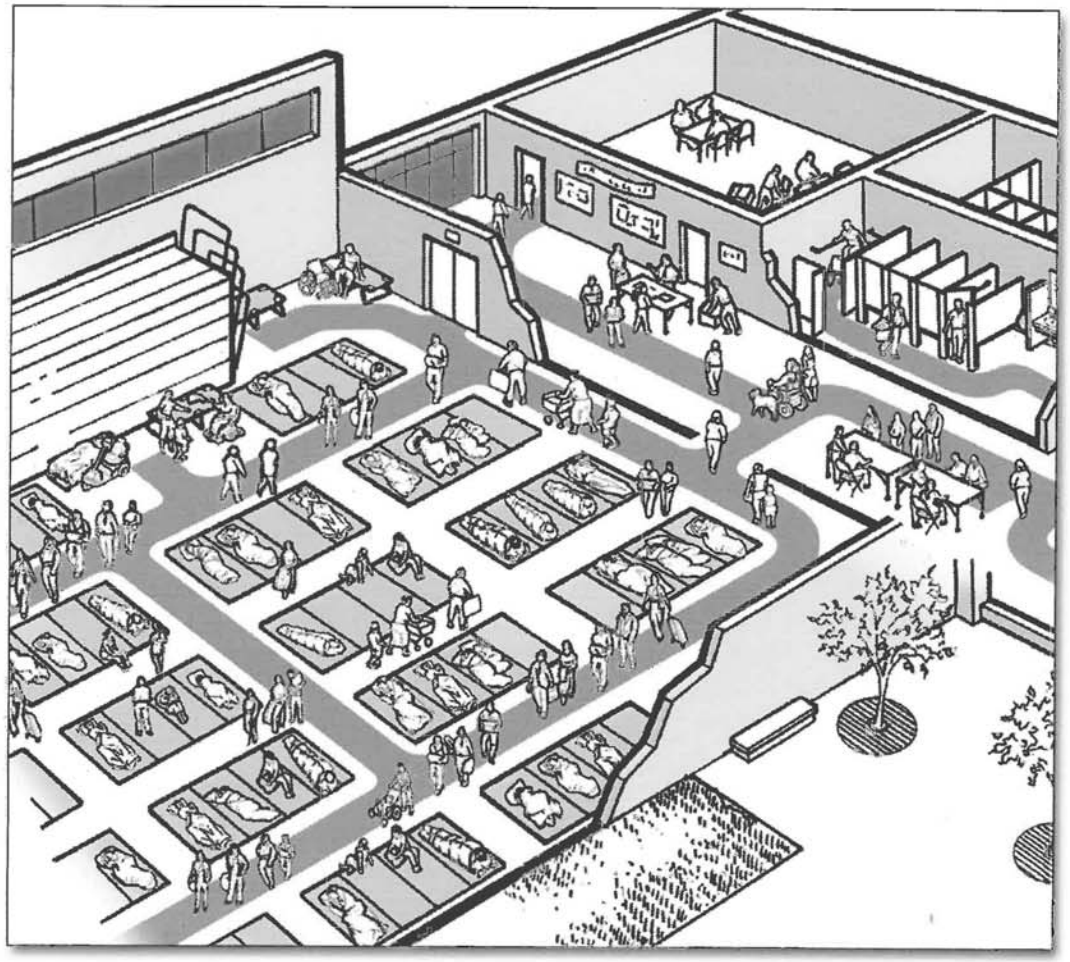
F2. If there is a built-in reception or other type of counter, does it have a section that is at least three feet long that is no higher than 36 inches above the floor or is there a nearby surface that is not higher than 36 inches above the floor? [ADA Standards § 7.2] Yes ____ No ____

Notes/Comments

Living at the Emergency Shelter

G. Sleeping Areas

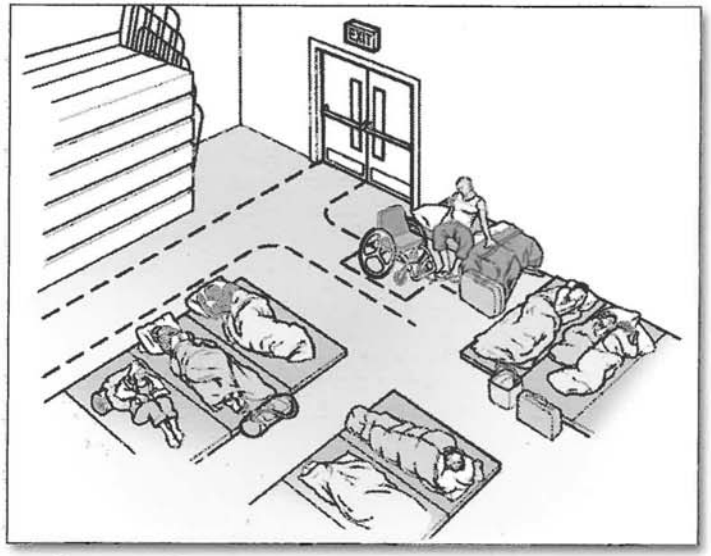
Each accessible sleeping area needs to be on an accessible route connecting it to other activity areas in the shelter, including toilet rooms and bathing areas. An accessible route with adequate circulation and maneuvering space provides access in the sleeping areas for people who use wheelchairs or scooters and this route serves each accessible bed or cot.



Interior of one section of a shelter's sleeping area. The shaded pathway indicates the accessible route, which provides access to accessible beds, cots, and other activity areas in the space plus the toilet rooms and other activity areas in the shelter.

ADA Emergency Shelter Checklist

Accessible cots have a sleeping surface at approximately the same height above the floor as the seat of a wheelchair (17 to 19 inches above the floor). When placed in several sections of the sleeping area, individuals who use a wheelchair, scooter, or other mobility device will be able to sleep near their family or other companions. An accessible route is needed to provide access to each accessible cot and a clear space at least 36 inches wide is needed along the side of the cot to make it possible to transfer between the mobility device and the cot. A preferred location for accessible cots is to have one side against a wall. This helps to stabilize the cot and the wall can act as a backrest when the person sits up on the cot.



An accessible cot positioned against a wall. Dashed lines indicate the accessible route and clear floor space next to the cot.

Notes/Comments

G1. Is there an accessible route, at least 36 inches wide, that connects each sleeping area with other shelter activity areas? Yes _____ No _____

Note: it may narrow to 32 inches wide for up to 2 feet in length.

[ADA Standards § 4.3.2(3)]

G2. Is the accessible route free of steps and abrupt level changes over 1/2 inch? Yes _____ No _____

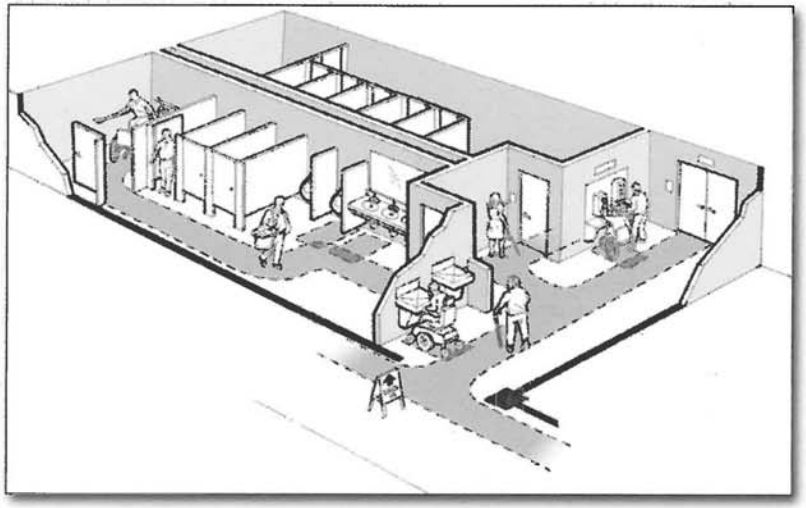
Note: level changes between 1/4 inch and 1/2 inch should be beveled.

[ADA Standards §§ 4.1.3(1), 4.3.8]

Note: Although the facility survey cannot check the accessibility of the cots because they will not be installed until the shelter is in use, planning for setting up the sleeping area and for arranging the cots and mats should include providing space for an accessible route and clear floor space at each accessible cot. Cots used by people who are blind or who have low vision should be in an easily locatable area.

H. Restrooms and Showers

At least one set of toilet rooms serving the shelter must be accessible to individuals who use a wheelchair, scooter, or other mobility device. In large shelters where more than one set of toilet rooms is needed to serve the occupants, it may be necessary to provide additional accessible toilet facilities or to establish policies to assure that individuals with disabilities have access to the accessible facilities.



Interior of an accessible toilet room showing accessible route, clear floor space at accessible fixtures, and the wide accessible toilet stall.

Notes/Comments

H1. If a sign is provided at the toilet room entrance (e.g. Men, Women, Boys, Girls, etc.), is a sign with raised characters and Braille mounted on the wall adjacent to the latch? [ADA Standards § 4.30.6] Yes ____ No ____

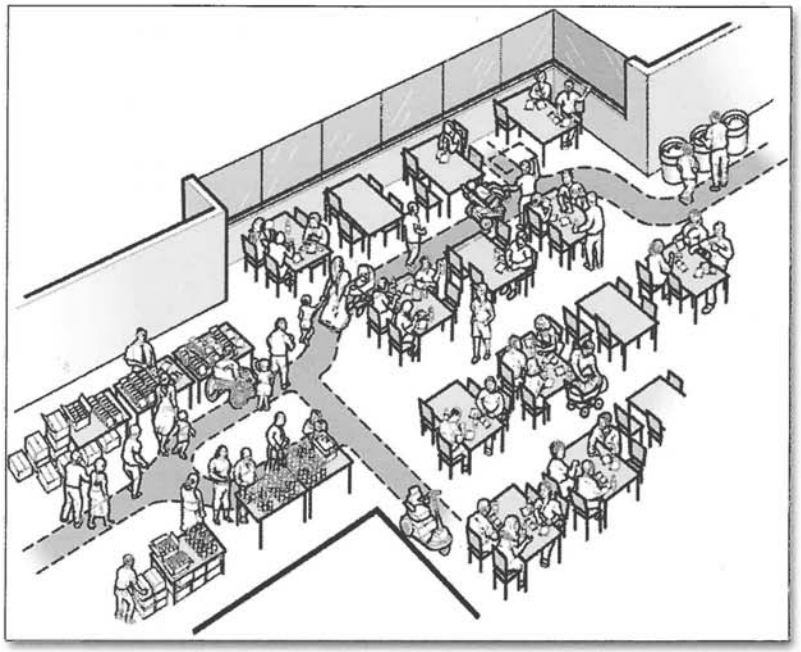
If No, install a sign with raised characters and Braille on the wall adjacent to the latch side of the door and centered 60 inches above the floor and leave the existing sign in place on the door if removing it will damage the door.

Note: an additional sign may be mounted on the toilet room door but this cannot be considered to be the accessible sign which must be mounted on the wall adjacent to the latch side of the door.

			Notes/Comments
H2.	Does the door to the toilet room provide at least 32 inches clear passage width when the door is open 90 degrees? [ADA Standards § 4.13.5]	Yes ____ No ____	
H3.	Is the hardware (e.g., lever, pull, panic bar) usable with one hand without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.13.9] If No, can the door be propped open without compromising privacy, or can the hardware be modified by adding new accessible hardware, or adapting or replacing hardware?	Yes ____ No ____	
H4.	On the pull side of the door, is there at least 18 inches clearance provided on the latch side if the door is not automatic or power-operated? [ADA Standards § 4.13.6, Fig. 25]	Yes ____ No ____	
H5.	If there is a raised threshold, is it no higher than 3/4 inch at the door and beveled on both sides? [ADA Standards §§ 4.1.6(3)(d)(ii), 4.13.8] If No, replace threshold with one with beveled sides or add a sloped insert.	Yes __ No___ NA__	
H6.	If the entry has a vestibule, is there a 30-inch by 48-inch clear floor space inside the vestibule where a wheelchair or scooter user can be outside the door swing? [ADA Standards § 4.13.7] If No, possible solutions include leaving the inner door open or removing the outer door.	Yes ____ No ____	

K. Eating Areas

An accessible route, at least 36 inches wide and without steps or steep slopes, must be provided to and throughout the food service and eating areas of the shelter. The accessible route allows people who use wheelchairs, scooters, and other mobility devices to get to all of the food and drink items in the shelter and to accessible tables and seating.



A serving and eating area in a shelter are shown above. The shaded pathway illustrates the accessible route connecting the entrance, serving areas, accessible seats and tables, and the exit.

Notes/Comments

			Notes/Comments
K1.	Is there an accessible route, at least 36 inches wide, that connects each of the shelter activity areas with the food service and eating areas (it may narrow to 32 inches wide for up to 2 feet in length)? [ADA Standards § 4.3.2(3)]	Yes ____ No ____	
K2.	Is there an accessible route that is at least 36 inches wide that connects accessible tables with serving, condiment, and dispenser areas? [ADA Standards § 5.3; 4.3.8]	Yes ____ No ____	
K3.	In each eating area, if tables with fixed seats are provided, do at least 5% of each type of table with fixed seats have accessible locations with knee space at least 27 inches high, at least 19 inches deep, and at least 30 inches wide with a table top 28 to 34 inches above the floor? [ADA Standards § 5.1] *Note: If movable tables and chairs are used as shown, then locate at least 5% of the tables adjacent to an accessible route. Tables can be relocated as needed during operation of the shelter.*	Yes ____ No ____	
K4.	If built-in food, drink, condiment, and tableware dispensers are provided, are dispensers and operating controls mounted no higher than 54 inches above the floor if clear floor space is provided for a side approach? [ADA Standards § 5.5]	Yes ____ No ____	
K5.	If the operating controls are set back 10 to 24 inches from the front edge of the counter or table are they no higher than 46 inches above the floor? [ADA Standards § 5.5]	Yes ____ No ____	
K6.	If food service lines are provided, is an accessible route provided (at least 36 inches wide) and are the tray slides no higher than 34 inches above the floor? [ADA Standards § 5.5]	Yes ____ No ____	

OTHER ISSUES

L. Availability of Electrical Power

Emergency shelters should have a way to provide a back-up power supply when the electrical service is interrupted. The back-up power is needed to provide refrigeration of medicines, operation of supplemental oxygen and breathing devices, and for charging the batteries of power wheelchairs and scooters. Individuals whose medications (certain types of insulin, for example) require constant refrigeration need to know if a shelter provides supplemental power for refrigerators or ice-packed coolers. Individuals who use medical support systems, such as supplemental oxygen, or who require periodic breathing treatments using powered devices rely on a stable source of electricity. These individuals must have access to electric power from a generator or other source of electricity while at a shelter.

In general, in each community or area where a shelter is provided, a facility must have one or more back-up generators or other sources of electricity so that evacuees with a disability who rely on powered devices can have access to electrical power while at the shelter.

L1. Is there a backup source of electrical power for the facility? Yes ____ No ____

L2. Is there a refrigerator or other equipment, such as coolers with a good supply of ice, at the shelter? Yes ____ No ____

Notes/Comments

M. Single-User or "Family" Toilet Room

Notes/Comments

In many schools and large facilities where emergency shelters are often located, single-user toilet rooms may be provided for staff. In those facilities built or altered since the ADA went into effect, single-user toilet rooms should have accessible features that could be useful during shelter operation. These features include an accessible entrance and turning and maneuvering spaces. These rooms should also have been built to allow grab bars, accessible controls, and accessible hardware to be easily installed.

As part of the planning for operating an emergency shelter, facilities operators should consider using an available staff toilet room, if provided, as a single-user or "family" toilet room. When provided in addition to large accessible toilet rooms, this type of facility permits a person with a disability to receive assistance from a person of the opposite sex.

M1. If a sign is provided at the toilet room entrance (e.g. Men, Women, Boys, Girls, etc.), is a sign with raised characters and Braille mounted on the wall adjacent to the latch side of the door and centered 60 inches above the floor? [ADA Standards § 4.1.3(16)(a)] Yes ____ No ____

If No, install a sign with raised characters and Braille on the wall adjacent to the latch side of the door and centered 60 inches above the floor and leave the existing sign in place on the door if removing it will damage the door.

Note: an additional sign may be mounted on the toilet room door but this cannot be considered to be the accessible sign which must be mounted on the wall adjacent to the latch side of the door.

M2. Does the door to the toilet room provide at least 32 inches clear passage width when the door is open 90 degrees? [ADA Standards § 4.13.5] Yes ____ No ____

M3. Is the hardware (e.g., lever, pull, etc.) usable with one hand without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.13.9] Yes ____ No ____

If No, add new accessible hardware or adapt/replace hardware.

M4. On the latch, pull side of the door, is there at least 18 inches clearance provided if the door is not automatic or power operated? [ADA Standards § 4.13.6; Fig. 25] Yes ____ No ____

M5. If there is a raised threshold, is it no higher than 3/4 inch at the door and beveled on both sides? [ADA Standards §§ 4.1.6(3)(d)(ii); 4.13.8] Yes ____ No ____
If No, replace threshold with one with beveled sides or add a sloped insert.

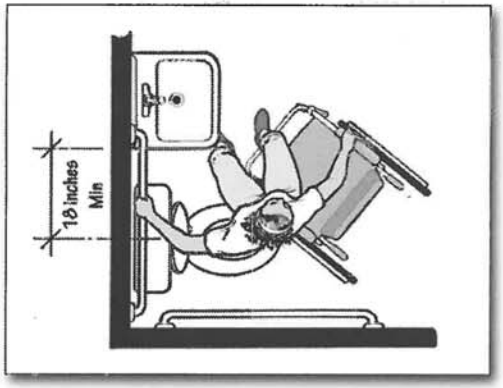
M6. Inside the room is there an area for a person who uses a wheelchair to turn around - either a 60-inch diameter circle or a "T"-shaped turn area? [ADA Standards §§ 4.22.3; 4.2.3] Yes ____ No ____

M7. If the door swings into the room, does the door swing not overlap the required clear floor space for the toilet or lavatory? [ADA Standards §§ 4.22.2; 4.2.4.1] Yes ____ No ____

Note: In the figure below the clear floor space for the toilet extends at least 66 inches from the back wall.

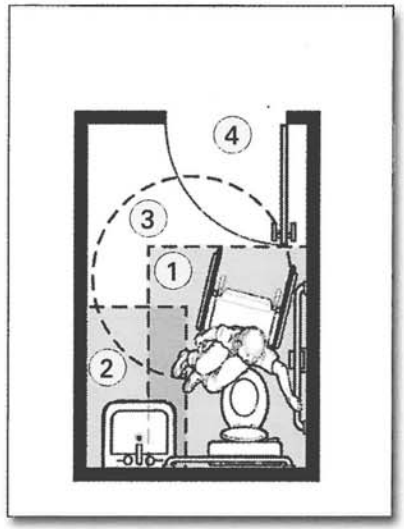
M8. Is there at least 18 inches between the center of the toilet and the side of the adjacent lavatory? [ADA Standards § 4.16.2; Fig. 28] Yes ____ No ____

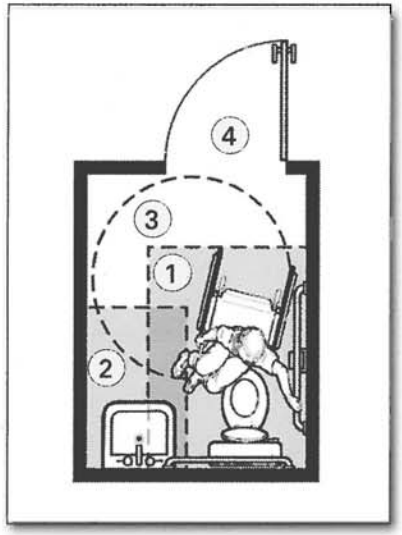
M9. Does the lavatory have at least a 29-inch-high clearance under the front edge and the top of the rim no more than 34 inches above the floor? [ADA Standards § 4.19.2] Yes ____ No ____



Plan view showing the minimum amount of space required between the toilet and the adjacent lavatory.

Notes/Comments





Notes:

(1) 48-inch minimum by 66-inch minimum clear floor space for toilet

(2) 48-inch minimum by 30-inch minimum clear floor space for lavatory

(3) 60-inch minimum turning space

(4) door swing

Plan view of a single-user toilet room showing the door swing not overlapping the dark toned area indicating the clear floor space for the toilet and lavatory. The door swing may overlap the turning space indicated by the circular area.

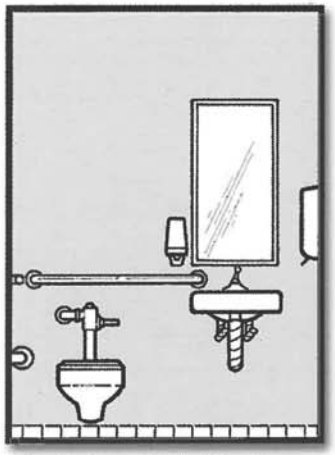
M10. Are the drain and hot water pipes for the lavatory insulated or otherwise configured to protect against contact? [ADA Standards § 4.19.4] Yes ____ No ____

M11. Does that lavatory have controls that operate easily with one hand, without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.19.5] Yes ____ No ____

Notes/Comments

M12. If a mirror is provided, is the bottom of the reflecting surface no higher than 40 inches above the floor or is a full length mirror provided?
[ADA Standards § 4.19.6]

Yes ____ No ____



Front view of toilet, lavatory, mirror and soap dispenser

M13. For each type of dispenser, receptacle, or equipment, is there clear floor space at least 30 inches wide x 48 inches long adjacent to the control or dispenser (positioned either parallel to the control or dispenser or in front of it)?
[ADA Standards §§ 4.23.7; 4.27.2; 4.2.5 and Fig 5; 4.2.6 and Fig 6]

Yes ____ No ____

M14. Is the operating control (switch, lever, button, or pull) for each type of dispenser or built-in equipment no higher than 54 inches above the floor (if there is clear floor space for a parallel approach) or 48 inches (if there is clear floor space for a front approach)?
[ADA Standards § 4.23.7; 4.27.3; 4.27.2; 4.2.5 and Fig 5; 4.2.6 and Fig 6]

Yes ____ No ____

M15. Are all built-in dispensers, receptacles, or equipment mounted so the front does not extend more than 4 inches from the wall if the bottom edge is between 27 inches and 80 inches above the floor?
[ADA Standards §§ 4.23.7; 4.27; 4.4.1; Fig. 8]

Yes ____ No ____

M16. Is the centerline of the toilet 18 inches from the adjacent side wall?
[ADA Standards § 4.16.2; 4.17.3]

Yes ____ No ____

Notes/Comments

M17. Is the top of the toilet seat 17 to 19 inches above the floor? [ADA Standards § 4.16.3] Yes ____ No ____

M18. Is the flush valve located on the side adjacent to the lavatory? [ADA Standards § 4.16.5] Yes ____ No ____

M19. Is a horizontal grab bar at least 40 inches long securely mounted on the adjacent side wall 33 to 36 inches above the floor with one end no more than 12 inches from the back wall? [ADA Standards §§ 4.16.4; 4.17.6] Yes ____ No ____

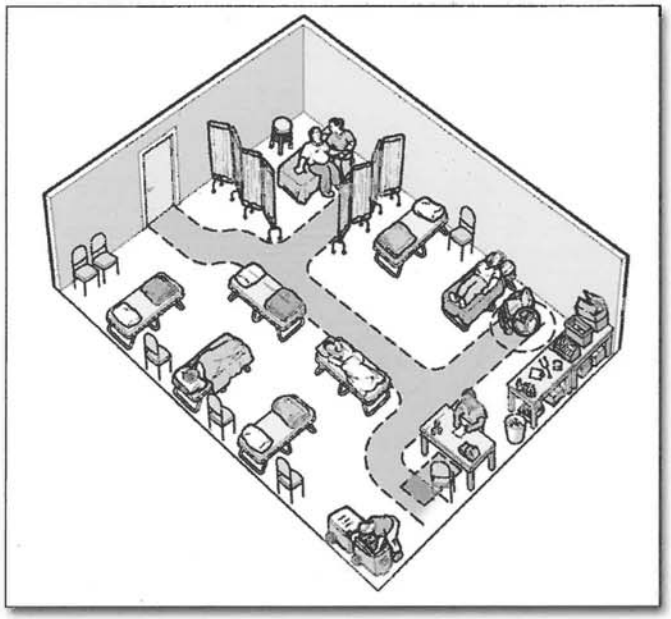
M20. Is there a horizontal grab bar at least 36 inches long securely mounted behind the toilet 33 to 36 inches above the floor with one end no more than 6 inches from the side wall? [ADA Standards §§ 4.16.4; 4.17.6] Yes ____ No ____

M21. If a coat hook is provided, is it mounted no higher than 54 inches above the floor for a side approach or 48 inches above the floor for a front approach? [ADA Standards § 4.25.3] Yes ____ No ____

Notes/Comments

N. Health Units/Medical Care Areas

In many schools, where emergency shelters are often located, nurses' rooms or other types of health care facilities may be provided. These health care facilities should be on an accessible route and have accessible features, including an accessible entrance, an accessible route to the different types of services offered within the medical care unit, turning and maneuvering spaces, and cots or beds that are at a height to which people who use mobility devices can easily transfer.



An overhead view of a medical care area with a shaded pathway showing the accessible route shown and clear floor spaces.

N1. Is there an accessible route, at least 36 inches wide, that connects each of the shelter activity areas with the health units and medical care areas (it may narrow to 32 inches wide for up to 2 feet in length)? [ADA Standards § 4.3.2(3)]

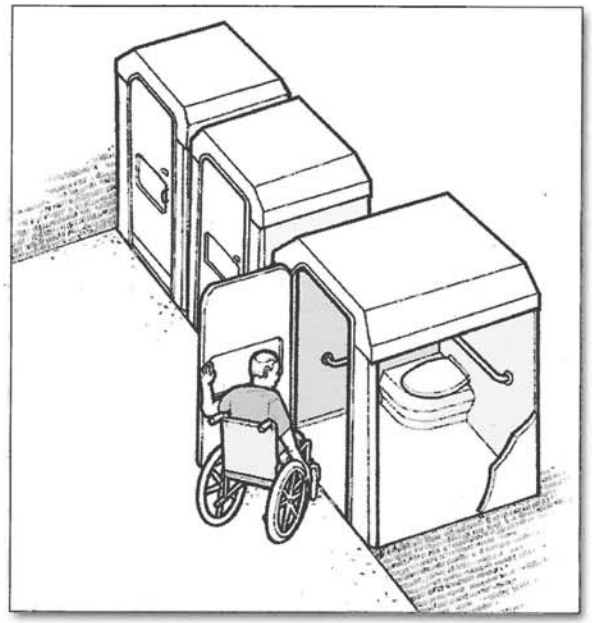
Yes _____ No _____

Notes/Comments

O. Accessible Portable Toilets

Portable toilets are often used at emergency shelters to supplement permanent toilet facilities. When portable toilets are provided, at least one must be a unit with accessible features that is located on an accessible route connecting it with the shelter. For the entrance to an accessible portable toilet to be usable, there must either be no step or a ramp must be installed that extends extends from the hinge side of the door to at least 18 inches beyond the latch side of the door.

Accessible portable toilets should similar features to a standard accessible toilet stall including an accessible door, side and rear grab bar, clear space next to the toilet, and maneuvering space.



A person using a wheelchair enters an accessible portable toilet. The unit is positioned to provide a flush entry from the accessible route.

Appendix L, Part 2:

Standards for Hurricane Evacuation and Disaster Event Special Needs Shelter (SpNS) Selection, Florida Department of Health (December, 2013)

ADA Best Practices Tool Kit for State and Local Governments

Chapter 7 Addendum 2:

The ADA and Emergency Shelters: Access for All in Emergencies and Disasters

One of government's primary responsibilities is to protect residents and visitors. Providing emergency shelter during disasters and emergencies is a basic way of carrying out this duty. Shelters are sometimes operated by government entities themselves. More commonly, though, shelters are operated for the state or local government by a third party – often the American Red Cross. Regardless of who operates a shelter, the Americans with Disabilities Act (ADA) generally requires shelters to provide equal access to the many benefits that shelters provide, including safety, food, services, comfort, information, a place to sleep until it is safe to return home, and the support and assistance of family, friends, and neighbors.[1] In general, the ADA does not require any action that would result in a fundamental alteration in the nature of a service, program, or activity or that would impose undue financial and administrative burdens.[2] This Addendum discusses some of the key issues that emergency managers and shelter operators need to address in order to comply with the ADA when they plan for and provide shelter during emergencies and disasters. Although this Addendum focuses primarily on issues affecting shelter residents with disabilities, these issues are also generally applicable to volunteers and employees with disabilities.

A. Advance Planning

- **Equal access requires advance planning.** During emergencies and disasters, people with disabilities sometimes have different, disability-related needs than other individuals. Many of these needs cannot be met during emergencies and disasters without advance planning. For example, if a person's health will be jeopardized without access to life-sustaining medication that must be refrigerated, an emergency shelter will be of little use to him unless he has access to the required medication and a way to keep it sufficiently cold. Resources of this kind will likely be unavailable unless emergency managers and shelter operators arrange to have them available well before an emergency or disaster occurs.

  To provide equal access to people with disabilities, effective advance planning requires at least two steps: (1) identify the disability-related needs of the residents and visitors likely to be housed in a shelter, and (2) make the advance arrangements necessary to meet those needs in the event an emergency or disaster strikes. The most effective way for emergency managers and shelter operators to ensure that advance planning addresses the needs of people with disabilities in their community is to involve community members with a wide variety of disabilities in the advance planning process. These individuals will be able to identify the types of disability-related needs that community residents and visitors are likely to have during emergencies as well as some of the community resources that may be available to help meet those needs.

To help in the advance planning process, the following sections of this Addendum identify some of the more common disability-related needs that shelter residents are likely to have. However, since people with different disabilities will typically have different needs, the issues addressed in this document are not exhaustive. Each community will have disability-related issues specific to its own residents and visitors that need to be identified and addressed. These issues are also likely to change over time as residents move into and out of communities and as changes occur in the types of equipment, medication, and technology that people with disability use.

[1] 28 C.F.R. §§ 35.130, 35.149.
[2] 28 C.F.R. §§ 35.130(b)(7), 35.150(a)(3), 35.164.

B. Accessibility

- **Ensure that the sheltering program is accessible to people with disabilities.** Disasters and emergencies are unpredictable. Even the best emergency managers cannot say with certainty when an emergency will strike, how extensive the damage will be, and which shelters will remain available to house people who must evacuate their homes. For most people, any building designated as a shelter will meet their basic emergency needs so long as it provides a safe place to eat, sleep, and take care of personal hygiene needs. But an emergency shelter is of little use to a person using a wheelchair if it has steps at the entrance or toilet rooms she cannot use.

  Under the ADA, emergency sheltering programs must not exclude or deny benefits to people with disabilities.[3] Emergency managers and shelter operators should therefore seek to ensure that shelters are physically accessible to people with disabilities, including people who use wheelchairs. Before designating a facility as an emergency shelter, emergency managers and shelter operators need to determine if it is accessible. Elements such as a shelter's parking, walkway to the entrance, entrance, toilets, bathing facilities, drinking fountains, sleeping area, food distribution and dining quarters, first aid/medical unit, emergency notification system, and other activity and recreation areas need to be examined for barriers. Government facilities built since 1992 and private business facilities built since 1993 are often the best candidates for emergency shelters because they were subject to ADA requirements for physical accessibility when they were built.[4] Some older facilities have been altered to provide physical accessibility[5] or can be made physically accessible by using temporary measures stored on site and readily available for use in the event an emergency occurs. Other older facilities are poor candidates for emergency shelters because they have barriers that are too expensive or infeasible to remove. For guidance on emergency shelter accessibility, please see the Department of Justice's "ADA Checklist for Emergency Shelters" at www.ada.gov/pcatoolkit/chap7shelterchk.htm. The checklist includes two assessment tools to ensure that emergency shelters provide access to all: (1) a preliminary checklist that will help emergency managers and shelter operators decide if a facility has the characteristics that make it a good candidate for a potential emergency shelter, and (2) a more detailed checklist that will help identify and remove the most common barriers to physical accessibility.

Emergency managers and shelter operators need to ensure that sheltering programs are accessible to people with disabilities, including individuals who use wheelchairs.

[3] 28 C.F.R. §§ 35.130, 35.149.
[4] 28 C.F.R. § 35.151(a) (for public facilities); 28 C.F.R § 36.406 (for private facilities that are subject to the requirements of Title III of the ADA because they are public accommodations or commercial facilities).
[5] 28 C.F.R. § 35.151(b) (for public facilities); 28 C.F.R. §§ 36.402 - 36.405 (for private facilities that are subject to the requirements of Title III of the ADA because they are public accommodations or commercial facilities).

C. Eligibility Criteria

Shelters are usually divided into two categories: (1) "mass care" shelters, which serve the general population, and (2) "special needs" or "medical" shelters, which provide a heightened level of medical care for people who are medically fragile. Special needs and medical shelters are intended to house people who require the type and level of medical care that would ordinarily be provided by trained medical personnel in a nursing home or hospital.

- **House people with disabilities in mass care shelters.** Emergency managers and shelter operators sometimes wrongly assume that people need to be housed in special needs or medical shelters simply because they have a disability. But most people with disabilities are not medically fragile and do not require the type or level of medical care that special care and medical shelters are intended to provide. The ADA requires people with disabilities to be accommodated in the most integrated setting appropriate to their needs,[6] and the disability-related needs of people who are not medically fragile can typically be met in a mass care shelter. For this reason, people with disabilities should generally be housed with their families, friends, and neighbors in mass care shelters and not be diverted to special needs or medical shelters.

  To comply with the ADA's integration requirement, emergency managers and shelter operators need to plan to house people with a variety of disabilities in mainstream mass care shelters, including those with disabilityrelated needs for some medical care, medication, equipment, and supportive services. Emergency managers and shelter operators must also ensure that eligibility criteria for mass care shelters do not unnecessarily screen out people with disabilities who are not medically fragile based on erroneous assumptions about the care and accommodations they require.

- **Respect the right of people with disabilities to make choices about where to shelter.** In some communities, emergency managers have designated shelters specifically for individuals with disabilities or individuals with a specific type of disability. For example, a community with a school for students who are deaf may designate that facility as an emergency shelter for people who are deaf. While the ADA does not prohibit offering these types of emergency shelters,[7] it generally does prohibit emergency managers and shelter operators from requiring people with disabilities or people with a specific type of disability to stay in such shelters.[8] The ADA requires emergency managers and shelter operators to accommodate people with disabilities in the most integrated setting appropriate to their needs, which is typically a mass care shelter.

- **House people with disabilities in mass care shelters even if they are not accompanied by their personal care aides.** Some people with disabilities use personal care assistance for activities of daily living, such as eating, dressing, routine health care, and personal hygiene needs. One question that frequently arises is whether people with disabilities who use attendant care can be appropriately housed in mass care shelters. In most instances, they can. Most people with disabilities who use attendant care are not medically fragile and do not require the heightened level of medical care provided in a special needs or medical shelter.

  In the past, some shelter operators maintained policies that prevented people with disabilities who regularly use attendant care from entering mass care shelters unless they were accompanied by their own personal care attendants. These policies denied access to many people with disabilities.

  During emergencies, many personal care attendants – like other people – evacuate or shelter with their own families instead of staying with their clients. Shelter operators should provide support services in mass care shelters to accommodate people with disabilities who are not medically fragile but need some assistance with daily living activities unless doing so would impose an undue financial and administrative burden. Such assistance can be provided by medical personnel or trained volunteers.

Local governments and shelter operators may not make eligibility for mass care shelters dependent on a person's ability to bring his or her own personal care attendant.

- **Make arrangements in advance to ensure that special needs and medical shelters have sufficient numbers of adequately trained medical staff and volunteers.** Special needs and medical shelters house people with disabilities who require the heightened medical care that is ordinarily provided in nursing homes and hospitals. However, in the past, these shelters have often had too few qualified staff – or relied too heavily on volunteers with minimal training – to provide adequate care to the medically fragile people they house.

  Advance planning is the only way emergency managers and shelter operators can secure enough trained medical personnel and adequately trained volunteers to ensure the safety and comfort of residents of special needs and medical shelters.

- **Keep families together whenever possible, even in special needs and medical shelters.** Family members provide each other the support and assistance necessary to cope with emergencies and disasters. During these difficult times, separation from family members increases loneliness, worry, and additional stress. But while most families have been able to stay together during emergencies, individuals with disabilities have often been unnecessarily separated from their families because many special needs and medical shelters do not allow them to be accompanied by more than one person.

In disasters and emergencies, people are ordinarily allowed to shelter with their families. This benefit needs to be available to persons with disabilities as it is for everyone else. Of course, some people in special needs and medical shelters may need to be housed in medical wards apart from their families because of critical medical needs, but their families should still be housed nearby.

[6] 28 C.F.R. § 35.130(d).
[7] 28 C.F.R. § 35.130(b)(2) - (c).
[8] 28 C.F.R. § 35.130(b)(2), (e)(1).

D. Reasonable Modifications

The ADA generally requires emergency managers and shelter operators to make reasonable modifications to policies, practices, and procedures when necessary to avoid discrimination.[9] A reasonable modification must be made unless it would impose an undue financial and administrative burden.[10] The following are examples of reasonable modifications that emergency managers and shelter operators will generally need to make:

- **Modify "no pets" policies to welcome people who use service animals.** Many emergency shelters do not allow residents or volunteers to bring their pets inside. But shelters must generally modify "no pets" policies to allow people with disabilities to be accompanied by their service animals.

  A service animal is not a pet. Under the ADA, a service animal is a dog (or in some cases a miniature horse) that is individually trained to provide assistance to a person with a disability. Most people are familiar with dogs that guide people who are blind or have low vision. But there are many other functions that service animals perform for people with a variety of disabilities. Examples include alerting people who are deaf or hard of hearing to sounds; pulling wheelchairs; carrying or retrieving items for people with mobility disabilities or limited use of arms or hands; assisting people with disabilities to maintain their balance; and alerting people to, and protecting them during, medical events such as seizures.

  How can a service animal be identified? Service animals come in all breeds and sizes. Many are easily identified because they wear special harnesses, capes, vests, scarves, or patches. Others can be identified by the functions they perform for people whose disabilities can be readily observed. When none of these identifiers are present, shelter staff may ask only two questions to determine if an animal is a service animal: (1) "Do you need this animal because of a disability?" and (2) "What tasks or work has the animal been trained to perform?" If the answers to these questions reveal that the animal has been trained to work or perform tasks for a person with a disability, it qualifies as a service animal and must generally be allowed to accompany its owner anywhere other members of the public are allowed to go, including areas where food is served and most areas where medical care is provided. Questions about the nature or severity of a person's disability or ability to function may not be asked. It is also inappropriate to question a person's need for a service animal or to exclude a service animal on the grounds that shelter staff or volunteers can provide the assistance normally provided by the service animal.

- **Modify kitchen access policies for people with medical conditions that may require access to food.** Most shelter operators restrict residents' and volunteers' access to the kitchen to preserve food and beverage supplies and maintain efficient kitchen operations. But people with medical conditions such as diabetes may need immediate access to food to avoid serious health consequences. Shelter operators need to make reasonable modifications to kitchen policies so that residents and volunteers with disability-related needs can have access to food and beverages when needed.

- **Modify sleeping arrangements to meet disability-related needs.** To maximize efficiency, shelter operators typically provide one standard type of cot or mat for use by shelter residents. However, some people have disability-related needs for cots to be modified or may need to sleep on cots or beds instead of on mats placed on the floor. For example, a person with muscular dystrophy may require a cot with a very firm mattress to provide the physical support needed to facilitate breathing. Similarly, many people with mobility disabilities will be unable to use a sleeping mat placed on the floor. For example, many people using wheelchairs or scooters will be unable to safely transfer on and off a cot or bed unless it is firmly anchored so it does not move and has a firm sleeping surface that is 17 - 19 inches above the floor. Shelter operators need to establish procedures that people with disabilities can use to request reasonable modifications to sleeping arrangements.

[9] 28 C.F.R. § 35.130(b)(7).
[10] 28 C.F.R. § 35.130(b)(7).

E. Effective Communication

From the moment people begin to arrive at a shelter, good communication between staff, volunteers, and residents is essential. Many shelter residents and volunteers might have communication-related disabilities, including those who are deaf or hard of hearing and those who are blind or who have low vision. People with mental retardation or psychiatric disabilities might also have communication difficulties in certain circumstances, such as registering, filling out applications for benefits, or trying to understand what benefits and services are available.

Under the ADA, shelter operators must provide "effective communication" to people with disabilities unless doing so would result in a fundamental alteration or would impose undue financial and administrative burdens.[11] Shelters that are part of a state or local government sheltering program must give "primary consideration" to the type of auxiliary aid or service preferred by the person with a disability;[12] they must defer to that choice unless another equally effective method of communication is available or the preferred method would impose an undue financial and administrative burden or fundamental alteration.[13] This requirement applies even if a third party operates the shelter under an arrangement with the state or local government.

Advance planning is critical to ensuring effective communication during an emergency. Without such planning, it may be difficult or impossible to locate auxiliary aids and services and have them ready for use at the shelter. Advance planning will also alleviate the expense and burdens associated with providing auxiliary aids.

- **Provide alternate format materials for people who are blind or who have low vision.** People who are blind or have low vision may request documents and brochures in alternate formats (Braille, large print, or audio recording). Generally, shelter supplies should include alternate format versions of documents that are routinely made available to shelter residents. Having alternate formats available for distribution during an emergency requires advance planning.

  When documents are prepared on the spot and alternate formats cannot be prepared in advance or produced as needed, shelter operators are still required to provide effective communication through alternate means.[14] Often, the most effective solution in an emergency is to provide a person to read printed documents and, where applicable, someone to help fill out forms. People who serve as readers or provide assistance filling out forms must be "qualified" – in the context of an emergency shelter, this means being capable of and willing to read materials and complete forms as instructed by the person with a disability.

- **Ensure that audible information is made accessible to people who are deaf or hard of hearing.** In emergency shelters, most information is conveyed through oral announcements. Shelter operators must ensure that people who are deaf or hard of hearing have access to this information in a timely and accurate manner. In some circumstances, qualified sign language or oral interpreters may be required by the ADA. In others, posting messages and announcements in written format on a centrally located bulletin board, or writing notes back and forth with residents who are deaf or hard of hearing, may suffice.

  The type of auxiliary aid or service required in a specific situation depends on several factors, including the length, complexity, and importance of the communication and the person's language skills and history. For example, handwritten notes will not communicate information effectively to a person who cannot read. Similarly, providing a sign language interpreter will not be effective for a person who is hard of hearing and does not understand sign language. If it becomes an undue financial and administrative burden to obtain qualified sign language or oral interpreters at a shelter, then the ADA does not require them. However, advance planning can significantly reduce the costs and administrative burdens of making interpreters available.

- **Provide a TTY for the use of people who are deaf or hard of hearing.** Many people in shelters use telephones to apply for disaster relief benefits, arrange for transitional housing, and speak to family and friends. People who can use standard voice telephones typically make use of shelter telephones or cellular phones for this purpose. But without access to a teletypewriter (TTY), people who are deaf or hard of hearing and those who have speech disabilities are unable to communicate with others over the telephone.

[11] 28 C.F.R. § 35.160.
[12] 28 C.F.R. § 35.160(b)(2).
[13] 28 C.F.R. § 35.164.
[14] 28 C.F.R. § 35.164.

F. Shelter Environment

- **Offer orientation and wayfinding assistance to people who are blind or have low vision.** Until they become familiar with the shelter layout, blind people and those with low vision may have difficulty locating different areas of the shelter. Even after they are oriented to the shelter environment, changes in furniture layout or the addition or removal of cots may be disorienting to people who rely on these landmarks to find their way around. When they arrive at a shelter, people who are blind and those with low vision might need assistance orienting themselves to the shelter layout and locating pathways to sleeping areas, toilet rooms, and other areas of the shelter they may wish to use. Offer, but do not insist, on providing orientation and wayfinding assistance. Some people who are blind or have low vision need such assistance. Others can, and prefer to, find their own way.

- **Maintain accessible routes.** Cots and other furniture need to be placed to ensure that accessible routes – routes that people who use wheelchairs, crutches, or walkers can navigate – connect all features of the shelter. For instance, accessible routes need to connect the sleeping quarters to the food distribution and dining quarters, to the toilet rooms and bathing facilities, activity areas, etc. Generally, an accessible route is 36 inches wide, except at doors and for short distances, when it can be narrower, and where it turns, when it must be wider. More guidance on accessible routes is provided in the "ADA Checklist for Emergency Shelters" at www.ada.gov/pcatoolkit/chap7shelterchk.htm.

- **Eliminate protruding objects in areas where people can walk.** Furniture and other items should be positioned to direct pedestrians who are blind or have low vision safely away from overhead or protruding objects. This requirement extends beyond the "accessible route" and applies throughout the shelter environment to any place where a person can walk. Hazards posed by protruding and overhead objects can typically be eliminated by placing a cane-detectable barrier on the floor beneath or next to them. But care should be taken so cane-detectable barriers do not block accessible routes or the clear floor space that people using mobility devices need to access common protruding objects such as drinking fountains. For more guidance on protruding objects, please see please see the "ADA Checklist for Emergency Shelters" at www.ada.gov/pcatoolkit/chap7shelterchk.htm.

- **Consider low-stimulation "stress-relief zones.**" The stress from the noise and crowded conditions of a shelter – combined with the stress of the underlying emergency – may aggravate some disability-related conditions, such as autism, anxiety disorders, or migraine headaches. Without periodic access to a "quiet room" or quiet space within a larger room, some people with disabilities will be unable to function in a shelter environment. In locations where a school gym serves as the emergency shelter, a nearby classroom can provide the necessary relief from noise and interaction that some shelter residents and volunteers with disabilities will need. Other shelter residents and volunteers may want a break from the noise and crowds. But quiet spaces are limited, they should be made available on a priority basis to people whose disabilities are aggravated by stress or noise.

- **Consult residents with disabilities regarding placement of their cots.** Some individuals will have disability-related needs that require accommodation when assigning the location of their cot. For instance, a person who uses a wheelchair, crutches, or a walker may need a cot located close to an accessible toilet room. Since an assigned cot may not be identifiable by touch, a blind person may need a cot placed in a location that she can easily find. A person with low vision may need his bed located close to light so he can see or away from bright light that aggravates his eyes. Likewise, someone who is deaf or hard of hearing may need a cot placed away from visual distractions that would prevent him from sleeping.

G. Supplies

- **Provide an effective way for people to request and receive durable medical equipment and medication.** Despite advance planning, some people with disabilities will find themselves in shelters without a supply of the medications or medical equipment they need. For example, some medical insurance plans prohibit people from purchasing medication until their existing supply is almost gone. Other people may be required to evacuate without medication or medical equipment or be inadvertently separated from medication or medical equipment during evacuation. Emergency managers and shelter operators need to plan and make arrangements in advance so persons with disabilities can obtain emergency supplies of medications and equipment.

- **Whenever possible, provide refrigeration for certain types of medication.** Many people with disabilities need medication that must be refrigerated. Shelters need to have a safe and secure refrigerated location where medications can be stored and accessed when needed.

- **If electricity is available, give priority to people with disabilities who use ventilators, suctioning devices, and other life-sustaining equipment.** Some people with disabilities require ventilators, suctioning devices, or other life-sustaining equipment powered by electricity. Without electrical power, many of these individuals cannot survive. When electrical power is available, access should be given to people who depend on electrically powered equipment to survive.

  Many people with disabilities depend on battery-powered wheelchairs and scooters for mobility. The batteries in these mobility aids must frequently be recharged, or they will stop functioning. Without these mobility aids, many people with disabilities will lose their ability to move about, they may be unable to participate in some services offered by the shelter, and they may need to depend more heavily on assistance from others. When possible, provide these individuals the opportunity to charge the batteries that power the equipment they use for mobility and independence.

- **Provide food options that allow people with dietary restrictions to eat.** Because of disabilities, some people are unable to eat certain types of food. For example, people with diabetes must restrict their intake of carbohydrates. Other people have severe allergies to common food ingredients, such as peanut oil and byproducts. In planning food supplies for shelters, emergency managers and shelter operators need to consider foods and beverages for people with common dietary restrictions.

- **Provide emergency supplies that enable people with disabilities to care for their service animals.** Many people with disabilities rely on service animals to do things they cannot do themselves. But when evacuating during an emergency, some individuals will be unable to transport enough food and water for their service animals. Shelter operators need to make food and water available so individuals can feed and care for their service animals. Shelter operators should also make reasonable modifications to security screening procedures so that people with disabilities are not repeatedly subjected to long waits at security checkpoints simply because they have taken their security animals outside for relief.

H. Transitions Back to the Community

- **Provide people with disabilities a reasonable amount of time and assistance to locate appropriate housing.** Shelters provide temporary refuge during and after an emergency until people can return home or arrange an alternative place to live. In some instances, shelter operators have required individuals with disabilities to move to hospitals, nursing homes, or other institutions when these individuals could not locate accessible housing or the supportive services they needed to live in their own home as quickly as other individuals. As a result, some people with disabilities who once lived independently in their own homes found themselves institutionalized soon after a disaster occurred.

  The ADA generally requires people with disabilities to receive services in the most integrated setting appropriate to their needs unless doing so would result in a fundamental alteration in the nature of services or impose undue financial and administrative burdens.[15] To comply with this requirement and assist people with disabilities in avoiding unnecessary institutionalization, emergency managers and shelter operators may need to modify policies to give some people with disabilities the time and assistance they need to locate new homes.

I. Other Resources

As discussed above, the ADA requires that people with disabilities have equal access to shelters and the benefits they provide. Providing equal access to people with different disabilities can involve very different issues. This document discusses a few of the most common issues and how they can be addressed. Other issues are addressed in Chapter 7 of the "ADA Best Practices Tool Kit for State and Local Governments," "The ADA Guide for State and Local Governments: Making Emergency Preparedness and Response Programs Accessible to People with Disabilities, " the "ADA Checklist for Emergency Shelters," and other technical assistance materials that are available on the Department of Justice's ADA Home Page at www.ada.gov.

[15] 28 C.F.R. § 35.130(d).