

**Interior Finish Flame Schedule Ratings:**

- FROM TABLE 803.5 (GROUP E)
- 1. EXIT ENCLOSURES AND EXIT PASSAGeways: CLASS A, FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450
- 2. CORRIDORS: CLASS B, FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450
- 3. ROOMS AND ENCLOSED SPACES: CLASS C, FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450

**Building Code Note:**

ALL WORK IS TO COMPLY WITH THE BUILDING CODES MENTIONED IN THE "CODE INFORMATION" SECTION IN THIS SHEET.

**Deferred Submittal Note:**

THE REGISTERED DESIGN PROFESSIONAL IS: LOUISE CRAVER.

THESE CONSTRUCTION DOCUMENTS WERE PRODUCED FOR COMPLIANCE WITH THE CONSTRUCTION CODES IN EFFECT AT TIME OF PERMIT SUBMITTAL. ALL ENGINEERS, CONTRACTORS AND SUPPLIERS INVOLVED WITH THIS PROJECT SHALL COMPLY WITH THE SAME CODES. ISSUED AND APPROVED CODE MODIFICATIONS AND/OR BOARDS OF APPEALS RULING AND WHENEVER REQUIRED SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS CLEARLY DESCRIBING COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL.

**Design Professionals:**

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**Government Agencies:**

- BUILDING DEPT:** CITY OF LAKE MARY—BUILDING—COMMUNITY DEVELOPMENT  
ADDRESS: 911 WALLACE COURT LAKE MARY, FL 32746  
PHONE: 407-585-1368
- FIRE DEPT:** CITY OF LAKE MARY FIRE DEPARTMENT  
ADDRESS: 911 WALLACE COURT LAKE MARY, FL 32746  
PHONE: 407-585-1378
- PLUMBING:** CITY OF LAKE MARY—BUILDING—COMMUNITY DEVELOPMENT  
ADDRESS: 911 WALLACE COURT LAKE MARY, FL 32746  
PHONE: 407-585-1368
- HEALTH DEPT:** FLORIDA DEPARTMENT OF CHILDREN AND FAMILIES (DCF)  
ADDRESS: 400 W. ROBINSON STREET, SUITE 912 ORLANDO, FL 32801  
PHONE: 407-235-5079

# Rainbow Child Care Center

C- PROTOTYPE  
2609 W. LAKE MARY BOULEVARD  
LAKE MARY, FL 32746



**Sheet Index:**

- T.100 Cover Sheet
- T.101 Fire & Life Safety Plan
- A.100 First Floor Wall Framing Plan
- A.101 First Floor Plan
- A.102 First Floor Key Plan
- A.102.1 Enlarged Floor Plans
- A.103 Attic Plan
- A.104 Roof Plan
- A.105 Finish Plan
- A.200 Exterior Elevations
- A.201 Exterior Elevations
- A.300 Building Sections
- A.301 Building Sections
- A.302 Building Sections
- A.302.1 Building Sections
- A.303 Wall Sections
- A.304 Wall Sections
- A.305 Section Details
- A.400 Interior Elevations
- A.401 Interior Elevations
- A.402 Interior Elevations
- A.500 Schedules
- S.000 General Structural Notes
- S.100 Foundation Plan
- S.101 Roof Framing Plan
- S.102 Equipment Platform Framing Plan
- S.200 Typical Schedules & Details
- S.300 Sections and Details
- S.301 Sections and Details
- M.001 Mechanical Cover Sheet
- M.100 Main Level Mechanical Plan
- M.200 Upper Level Mechanical Plan
- M.300 Mechanical Schedules
- M.400 Mechanical Details
- M.500 Mechanical Specifications
- P.001 Plumbing Cover Sheet
- P.002 Slab Dimension Plan
- P.100 Underground Piping Plan
- P.101 Main Level Piping Plan
- P.200 Upper Level Piping Plan & Riser Diagram
- P.201 Water Riser Diagram
- P.300 Plumbing Schedules
- P.400 Plumbing Details
- P.401 Plumbing Details
- E.000 Electrical Notes & Lighting Fixture Schedule
- E.010 Electrical Site Plan
- E.100 Electrical Plan - Lighting
- E.101 Electrical Plan - Power
- E.102 Electrical Plan - Fire Alarm
- E.103 Electrical Plan - Equipment Platform
- E.201 Electrical Details
- E.202 Panel Schedules
- E.204 Electrical Specifications
- FP.100 Fire Protection Plan
- FP.200 Fire Protection Details and Notes

**Code Information**

**Effective Codes:**  
BUILDING CODE: Florida Building Code, EDITION: 2014  
PLUMBING CODE: Florida Plumbing Code, EDITION: 2014  
MECHANICAL CODE: Florida Mechanical Code, EDITION: 2014  
ELECTRIC CODE: National Electric Code, EDITION: 2011  
ACCESSIBILITY CODE: Florida Accessibility Code, EDITION: 2014  
ENERGY CODE: FL Energy Conservation Code, EDITION: 2014  
FIRE CODE: FL Fire Prevention Code, EDITION: 2014  
Florida Administrative Code:  
69A-36.105 Standards of the National Fire Protection Association Adopted  
(b) New child care facilities caring for more than 2 children shall meet the requirements of Sections 16.3.2.1(1) through 16.3.2.1(7) of NFPA 101.

**Type of Construction**  
Type V-B, Sprinklered

**Building Occupancy**  
Day Care (I-4)  
Per NFPA 101, 2013 Edition with Florida Changes

**Occupant Loads**  
1. Building Code

Table 101.1.2  
Minimum Net Area Allowances per Daycare Occupancy:

- Classrooms: 6,569 s.f. / 35 = 188
- Exercise (Gym): 943 s.f. / 50 = 19
- Business (Office/Reception): 240 s.f. / 100 = 3
- Kitchen: 253 s.f. / 200 = 2

**Maximum Occupant Load for Egress = 212**

2. Actual Occupant Load  
(Maximum operational occupancy per state of Florida Childcare licensing) Refer to Sheet A.102 for complete Licensing Chart.

Children: 150 children  
Director, Teachers, Staff: 20 occupants  
**Total Number of Occupants: 170 occupants**

**Height and Area Limitations for E:**

**Maximum Height: 1 Story (40'-0")**  
Proposed Height: 1 Story 25'-6 3/4"  
Building Area: 9,500 s.f.

**Building Area Modifications:**

- Per section 506.1 (FBC 2014)
- Frangible Increases Calculation  
 $I_i = (F/P - 0.25)W/30$   
 $I_i = 100 (491/491 - 0.25) 30/30 = 75\%$  Increase  
9,500 Sq. Ft. (.75) = 7,125 Sq. Ft. Increase  
9,500 Sq. Ft. + 7,125 Sq. Ft. = 16,625 Allowable Sq. Ft.

**Maximum Area Allowed: 16,625 Sq. Ft.**

**Total Building Gross Area: 11,992 Sq. Ft.**

- First Floor Gross Area: 11,992 Sq. Ft.
- Equipment Platform Area\*: 514 Sq. Ft.

\* Per Section 505.3, Equipment Platforms are excluded from the Fire Area calculation.  
\* Per NFPA 101, Section A3.3.2.68.1 stories used for mech. equipment rooms, are not occupiable stories.

**Fire Protection:**  
Automatic Fire Sprinkler System: **YES**  
Required per local ordinance.

**Corridor Protection:**  
Fire Resistance Rating is not required for occupancy I-4 according to FBC Table 1018.1 and NFPA 101 Section 16.3.6 (1). Smoke partitions are req'd per Section NFPA 101 Section 16.3.6 (2).

**Protection of Incidental Uses (FBC Section 509):**  
Laundry or Wash Room: no separation required (area is less than 100 s.f.) Room contains appliances that are of residential type, so it is not considered as a "Laundry" (NFPA 101 A.16.3.2.1 (2)(a)).

**Separation of Accessory Occupancies (FBC Section 508.2):**  
General Closets, Gym Equipment Closets, IT Closet, Kitchen, Pantry, Utility Room, Staff Lounge & Conference Rm.  
Total Area of Accessories = 1,003 s.f.  
10% of Total Building Area = 11,992 x .10 = 1,199 s.f.  
1,003 s.f. < 1,199 s.f.  
Separation of Accessory Spaces is not required according to 508.2.1 & 508.2.4.

**Stair Enclosure (Section 505.3):**

Equipment platforms shall not be a part of any mezzanine and such platforms and the walkways, stairs, alternating tread devices and ladders providing access to an equipment platform shall not serve as a part of the means of egress from the building.

**Plumbing Code Analysis:**

**Children Restrooms:**  
Water Closets = 1 per 15 Occupants (FPC Section 403)  
Required: 150 / 15 = 10 Provided: 15 water closets  
Lavatories = 1 per 15 Occupants (FPC Section 403)  
Required: 150 / 15 = 10 Provided: 17 lavatories

**Adult Restrooms:**  
Water Closets = 1 per 50 Occupants (FPC Section 403 Based on E Occupancy)  
Required: 20 / 50 = 0.4 = 1 Provided: 1 water closet  
Lavatories = 1 per 15 Occupants (FPC Section 403)  
Required: 20 / 50 = 0.4 = 1 Provided: 1 lavatory

Drinking Fountains: 1 per 100 Occupants (FPC Section 403)  
Required: 170 / 100 = 1.7 = 2 Provided: 2 (1 high + 1 low)

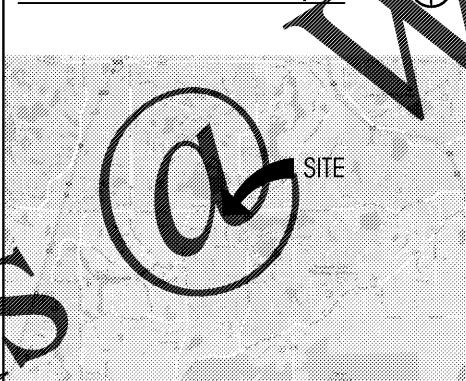
**Abbreviations**

A.C.T.	ACOUSTICAL CEILING TILE	FUOR.	FLUORESCENT	MTL.	METAL
A.F.F.	ABOVE FINISHED FLOOR	FTG.	FOOTING	NOM.	NOMINAL
ALUM.	ALUMINUM	G.C.	GENERAL CONTRACTOR	OPNG.	OPENING
ANOD.	ANODIZED	GALV.	GALVANIZED	O.C.	ON CENTER
APA	AMERICAN PLYWOOD ASSOCIATION	GYP. BRD.	GYP. BOARD	PLYWD	PLYWOOD
A.T.	ALUMINUM THRESHOLD	HGT.	HEIGHT	PLA	POINT LOAD FROM ABOVE
BRD.	BOARD	INSUL.	INSULATION	RAD.	RADIUS
C. TILE	CERAMIC TILE	JST.	JOIST	REQ'D	REQUIRED
CLG.	CEILING	LAM.	LAMINATE	SIM.	SIMILAR
CPT.	CARPET	L.V.L.	LAMINATED VENEER LUMBER	S.S.	STAINLESS STEEL
COORD.	COORDINATE	MATL.	MATERIAL	STL.	STEEL
CONC.	CONCRETE	MAX.	MAXIMUM	TR.	TRUSS
DIA.	DIAMETER	MECH.	MECHANICAL	UNL.	UNLINED OTHERWISE
ELEC.	ELECTRICAL	MIN.	MINIMUM	V.C.	VINYL COMPOSITION TILE
EXIST.	EXISTING	MTD.	MOUNTED	W.F.	WELDED JOINT
EXT.	EXTERIOR	MTG.	MOUNTING	WD.	WOOD
FND.	FOUNDATION				

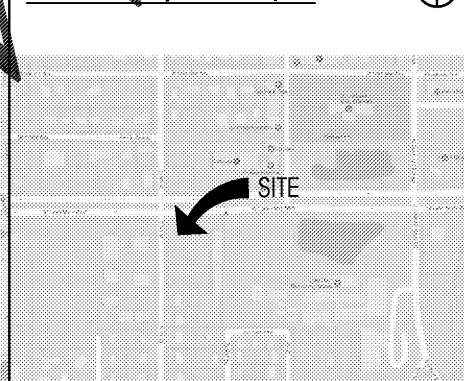
**Symbols Legend:**

	SECTION OR ELEVATION NUMBER		CENTERLINE		DOOR SYMBOL		ADDENDUM
	DIRECTION OF VIEW SHEET TO BE FOUND		OF WORK		WALL TYPE		BULLETTIN
	ELEVATION MARKER		KEYED NOTE		FINISH NOTE		

**Location Map:**



**Vicinity Map:**



**Revision Issue Log:**

REV #	ISSUE DATE	DESCRIPTION	AFFECTED SHEETS	REMARKS	BY
1	03.08.18	BLDG. & FIRE DEPT. COMMENTS	T.100, T.101, A.100, A.101, A.103, A.305, A.400, A.500, S.000, M.200, P.100, P.101, P.400, E.101, E.102, E.201, E.202, E.204, FP.100, FP.200		
2	03.27.18	BLDG. DEPT. COMMENTS	T.100, T.101, A.101		

**FL Product Approvals:**

CATEGORY	MANUFACTURER	APPROVAL#	EXPIRATION
DOORS WITH GLASS	SCHLAGE LOCK COMPANY	NOA 17-0320.05	5-5-18
FULL METAL DOORS	SCHLAGE LOCK COMPANY	NOA 17-0320.05	5-5-18
SINGLE HUNG WINDOWS	PGT INDUSTRIES	NOA 16-0714.04	7-30-20
FIXED WINDOWS	PGT INDUSTRIES	NOA 16-0714.04	7-30-20
VINYL SIDING & SOFFITS	CERTAINTEED CORPORATION	FL153-R4 ESR-1066	
ROOFING	CAF ASPHALT SHINGLES, "TIMBERLINE HD"	FL10124-R19 NOA 16-0611.11	2014 02/21/22
FRONT ENTRY DOOR WITH SIDELIGHTS	KAWNEER	FL7237-R7	

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SEAL:  
THIS DOCUMENT IS NOT FOR CONSTRUCTION UNLESS THE ARCHITECT OR ENGINEER'S SIGNATURE AND SEAL APPEAR BELOW.

NOT FOR CONSTRUCTION

BID SET  
04-10-18

2 03.27.18 BLDG. DEPT. COMMENTS  
1 03.08.18 BLDG. DEPT. COMMENTS  
NO. DATE REMARKS



RAINBOW CHILD CARE CENTER

C- PROTOTYPE  
2609 W. LAKE MARY BLVD.  
LAKE MARY, FL 32746

PROJECT NO: 2017.0250  
DATE: 12.22.17

T.100  
COVER SHEET

CHECKED: RC DRAWN: JC

Order Plans

WWW.IDPline.com