

May 30, 2023

Department of Fire Rescue and Emergency Services
Office of Fire Administration – Pompano Beach
120 Southwest 3rd Street
Pompano Beach, Florida 33060

RE: AVIARA WEST
DEPARTMENT OF FIRE RESCUE AND EMERGENCY SERVICES
STATEMENT OF VERIFICATION
CTA PROJECT NO. 22-0008-001-01

To Whom It May Concern:

CRAVEN THOMPSON



& ASSOCIATES INC.

Engineers
Planners
Surveyors
Landscape Architects

The Aviara West Site in Pompano Beach is anticipated to be two buildings of about 136,442 SF each that include 122 multi-family residential units each. The proposed buildings are serviced by an 8" water main on Atlantic Boulevard Extension that has been installed by the City of Pompano Beach. Based on the preliminary information provided by the architect, it is our understanding that the facility will be in compliance with the required water main sizing, fire hydrant spacing, and fire hydrant locations. The buildings are anticipated to be Type IB sprinklered construction.

If you have any questions, please do not hesitate to contact me at (954) 739-6400 or by email at cedwards@craventhompson.com.

Sincerely,

CRAVEN THOMPSON & ASSOCIATES, INC.

Chad Everett Edwards Digitally signed by
Chad Everett Edwards
Date: 2023.05.30
14:50:55 -04'00'

CHAD E. EDWARDS, P.E.
Senior Supervising Engineer
Florida Registration No. 59306

CEE/mn

This document has been digitally signed and sealed by Chad Everett Edwards, P.E. on the date indicated above. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

May 30, 2023

City of Pompano Beach
Fire Department
120 Southwest 3rd Street
Pompano Beach, Florida 33060

**RE: AVIARA WEST
FIRE FLOW CALCULATION AND SUMMARY
CTA PROJECT NO. 22-0008-001-01**

To Whom It May Concern:

CRAVEN THOMPSON



& ASSOCIATES INC.

Engineers
Planners
Surveyors
Landscape Architects

The proposed buildings consist of Type IB sprinklered construction with two buildings equaling a square footage of approximately 136,442 SF each, which per NFPA TABLE 18.4.5.1.2 "Minimum Required Fire Flow and Flow Duration for Buildings" requires a fire flow of 4,000 gpm. Per 18.4.5.2.1, a reduction in required fire flow of 75 percent shall be permitted when the building is protected throughout by an approved automatic sprinkler system. The resulting fire flow shall not be less than 1,000 gpm (3785 L/min). Since our buildings will have an approved automatic sprinkler system, the 4,000 gpm requirement is reduced to 1,000 gpm. Per the attached fire flow test conducted at the site, the existing system is capable of supplying this requirement.

If you have any questions, please do not hesitate to contact me at (954) 739-6400 or by email at cedwards@craventhompson.com.

Sincerely,

CRAVEN THOMPSON & ASSOCIATES, INC.

Chad Everett Edwards
Digitally signed by
Chad Everett Edwards
Date: 2023.05.30
14:51:11 -04'00'

CHAD E. EDWARDS, P.E.
Senior Supervising Engineer
Florida Registration No. 59306

CEE/mn

This document has been digitally signed and sealed by Chad Everett Edwards, P.E. on the date indicated above. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

3563 NW 53rd Street
Fort Lauderdale, FL 33309-6311
Phone: (954) 739-6400
Fax: (954) 739-6409

DRC

**PZ23-12000006
07/05/2023**

19.1.6.2 The AHJ shall be responsible for designating the areas that require hazardous location electrical classifications and shall classify the areas in accordance with the classification system set forth in NFPA 70.

19.1.7 No Smoking.

19.1.7.1 No smoking or open flame shall be permitted in any area where combustible fibers are handled or stored or within 50 ft (15 m) of any uncovered pile of such fibers.

19.1.7.2 "No Smoking" signs shall be posted.

Table 18.4.5.1.2 Minimum Required Fire Flow and Flow Duration for Buildings

Fire Flow Area ft ² (× 0.0929 for m ²)					Fire Flow gpm [†] (× 3.785 for L/min)	Flow Duration (hours)
I(443), I(332), II(222)*	II(111), III(211)*	IV(2HH), V(111)*	II(000), III(200)*	V(000)*		
0–22,700	0–12,700	0–8200	0–5900	0–3600	1500	2
22,701–30,200	12,701–17,000	8201–10,900	5901–7900	3601–4800	1750	
30,201–38,700	17,001–21,800	10,901–12,900	7901–9800	4801–6200	2000	
38,701–48,300	21,801–24,200	12,901–17,400	9801–12,600	6201–7700	2250	
48,301–59,000	24,201–33,200	17,401–21,300	12,601–15,400	7701–9400	2500	
59,001–70,900	33,201–39,700	21,301–25,500	15,401–18,400	9401–11,300	2750	3
70,901–83,700	39,701–47,100	25,501–30,100	18,401–21,800	11,301–13,400	3000	
83,701–97,700	47,101–54,900	30,101–35,200	21,801–25,900	13,401–15,600	3250	
97,701–112,700	54,901–63,400	35,201–40,600	25,901–29,300	15,601–18,000	3500	
112,701–128,700	63,401–72,400	40,601–46,400	29,301–33,500	18,001–20,600	3750	
128,701–145,900	72,401–82,100	46,401–52,500	33,501–37,900	20,601–23,300	4000	4
145,901–164,200	82,101–92,400	52,501–59,100	37,901–42,700	23,301–26,300	4250	
164,201–183,400	92,401–103,100	59,101–66,000	42,701–47,700	26,301–29,300	4500	
183,401–203,700	103,101–114,600	66,001–73,300	47,701–53,000	29,301–32,600	4750	
203,701–225,200	114,601–126,700	73,301–81,100	53,001–58,600	32,601–36,000	5000	
225,201–247,700	126,701–139,400	81,101–89,200	58,601–65,400	36,001–39,600	5250	
247,701–271,200	139,401–152,600	89,201–97,700	65,401–70,600	39,601–43,400	5500	
271,201–295,900	152,601–166,500	97,701–106,500	70,601–77,000	43,401–47,400	5750	
Greater than 295,900	Greater than 166,500	106,501–115,800	77,001–83,700	47,401–51,500	6000	
		115,801–125,500	83,701–90,600	51,501–55,700	6250	
		125,501–135,500	90,601–97,900	55,701–60,200	6500	
		135,501–145,800	97,901–106,800	60,201–64,800	6750	
		145,801–156,700	106,801–113,200	64,801–69,600	7000	
		156,701–167,900	113,201–121,300	69,601–74,600	7250	
		167,901–179,400	121,301–129,600	74,601–79,800	7500	
		179,401–191,400	129,601–138,300	79,801–85,100	7750	
		Greater than 191,400	Greater than 138,300	Greater than 85,100	8000	

*Types of construction are based on NFPA 220.

[†]Measured at 20 psi (139.9 kPa).

19.1.8 Vehicles or Conveyances Used to Transport Combustible Waste or Refuse.

19.1.8.1 Vehicles or conveyances used to transport combustible waste or refuse over public thoroughfares shall have all cargo space covered and maintained tight enough to ensure against ignition from external fire sources and the scattering of burning and combustible debris that can come in contact with ignition sources.

19.1.8.2 Transporting burning waste or refuse shall be prohibited.

19.1.8.3 Trucks or automobiles, other than mechanical handling equipment and approved industrial trucks as listed in NFPA 505, *Fire Safety Standard for Powered Industrial Trucks Including Type*

Designations, Areas of Use, Conversions, Maintenance, and Operations, shall not enter any fiber storage room or building but shall be permitted to be used at loading platforms.

19.2 Combustible Waste and Refuse.

19.2.1 Rubbish Containers.

19.2.1.1 General. Rubbish containers kept outside of rooms or vaults shall not exceed 40.5 ft³ (1.15 m³) capacity.

19.2.1.1.1 Containers exceeding a capacity of 5½ ft³ [40 gal (0.15 m³)] shall be provided with lids.



Fire Prevention Fire Hydrant Flow Test



City of Pompano Beach • Bureau of Fire Prevention
100 West Atlantic Boulevard, Room 220 Pompano Beach, FL 33060
Phone: (954) 786-4695

City of Pompano Beach Fire Prevention will **WITNESS** all fire hydrant flow test that are required for fire flow purposes.

- City of Pompano Beach Code of Ordinances Title IX Chapter 95 Section 95.14(G). Fire hydrant flow tests.
- The Fire Department shall witness all hydrant flow tests as required for fire protection systems.
- All fire flow tests shall be in accordance with NFPA 291 and Broward County Amendments F-112.
- Broward County Amendments F-112(e) - The static pressure at the water main shall be determined by a recorded method for a minimum twenty-four (24) hour period.
- Morning of fire Hydrant static/residue connection contractor to provide documents of test equipment certification.

Information:

Date:	03-27/28-2020
Company Requesting Flow Test:	Sprinklermatic Fire Protection
Contact Name:	Timothy J. O'Brien
Contact Phone Number:	Office 954-327-3686 X 202 - Cell 954-275-6224
Email Address:	tim@sprinklermatic.net
Associated Application Number:	
Associated Project Name:	

Proposed Date/Time for Fire Hydrant Flow Test: (8am – 9am)

- Request Hydrant Flow Test minimum 72 hours in advance.
- Connection of Fire Hydrant for 24 hour static/residual must be between 0730hrs and 0830hrs.

Requested Date:	03-27/28-2020	Time:	10:20
Alternate Date:		Time:	

Fire Hydrant Flow Test Location:

Hydrant Location - Static/Residual:	1350 NW 31st Ave. - Pompano Beach, Fl.
Hydrant Location - Flow:	

Fire Hydrant Flow Test Witness Fee:

There is a \$150.00 fee for performing each flow test. All tests will be completed within 5 business days. Please include map/sketch showing streets/cross streets & locations of flow and residual fire hydrants. Return flow test application to the Bureau of Fire Prevention with form of payment for \$150.00.

Make check and money orders payable to "CITY OF POMPANO BEACH"
If mailing in application with payment send to the addressed listed below.

Pompano Beach Fire Prevention
100 W. Atlantic Blvd. – Room 220
Pompano Beach, FL 33060
NOTE TO TREASURY: Post to 001-0000-367.30-00

		Yes	No			
Flow Test Equipment Certification:		X		Date:		
Fire Hydrant Id	Flow Pitot PSI	Flow GPM	Static Pressure 24 hr. Low PSI	Static Pressure Before Flow	Residual	Tip Size
	60	1300				
				85	80	
Total Hydrant Flow:						

- Fire Flow Data to be completed and entered on site.
- Fire flow data provided to Fire Prevention at a later date, must be signed/sealed by the Engineer of Record.

Timothy J. O'Brien

Person Conducting Flow Test:

N/A COVID-19

Fire Inspector Witnessing Flow Test:

DRC

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07/05/2023