

# ATLAS DESIGN & ENGINEERING, INC.

12800 University Drive, Suite 402

Fort Myers, FL 33907

Phone: 239-267-7432

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4/24/2017

Attention: Plans Reviewer

**RE: Kraft Office Center, North Parcel B  
1<sup>st</sup> Floor  
Naples, FL**

Florida Administrative Code 61G15-32.003 (1) (2) (3) (4) (5)

Florida Administrative Code 61G15-32.004 (2) (a-m)

Please recognize and accept this correspondence as official design criteria for this specific project. The information provided is per the requirements of the above referenced Administrative Codes.

61G15-32.003 (1-5):

**(1) Scope of Work:**

The proposed project consists of a tenant infill on the 1<sup>st</sup> floor of an existing four story office building. The building shall be protected by an NFPA 13 fire sprinkler system. The fire sprinklers shall be an automatic wet type system.

**(2) Acceptance Test Criteria:**

The acceptance testing of the fire protection system and components shall consist of all applicable items shown on these two forms: NFPA 13, 2010 Edition, Figure 24.1, Contractor's Material and Test Certificate for Above Ground Piping; and Figure 10.10.1, Contractor's Material and Test Certificate for Underground Piping. See NFPA 13, 2010 Edition, Chapter 24, System Acceptance and Chapter 10 Section 10.10, Testing and Acceptance, for details on the applicable tests.

**(3) Occupancy of Specific Hazard:**

The building shall consist of an office space for a business and shall be classified as Light Hazard occupancy. There is no attic in this project

**(4) Applicable Codes and Standards:**

Above ground fire protection system materials and installation shall be in accordance with NFPA 13, 2010 Edition. Underground materials and installation shall be in accordance with NFPA 13 and NFPA 24, 2010 Editions as required and where referenced. Compliance with all officially adopted local and state codes shall also be required.

**(5) Structural Support for Fire Protection Components:**

Structural support systems for this building will have adequate load carrying capacity for the proposed sprinkler system. There are no significant structural openings that will be required for this fire sprinkler system. Structural support of fire sprinkler system is to be provided by the concrete structure and interior metal framing. Pipe penetrations of all fire-rated partitions and assemblies shall be protected by an approved UL listed fire stopping system.

61G15-32.004 (2) (a-m):

**(a) Point of Service:**

As defined by 633.021 (18), "Point-of-service" (POS) is the point at which the underground piping for a fire protection system as defined in this section using water as the extinguishing agent becomes used exclusively for the fire protection system. The POS for this building shall be an existing 8" main located at Kraft Road. Post indicator, fire department connection, backflow preventer, as well as main are all existing as found on the original building construction documents and site civil drawings.

**(b) Applicable NFPA Standards:**

Above ground fire protection system materials and installation shall be in accordance with NFPA 13, 2010 Edition and Florida Fire Prevention Code, 5<sup>th</sup> Edition. Underground materials and installation shall be in accordance with NFPA 13 and NFPA 24, 2010 Editions as required and where referenced. Compliance with all officially adopted local and state codes shall also be required.

**(c) Classification of Hazard Occupancies:**

There is 1 individual office space within the building for this project as follows:  
business shall be classified as Light Hazard occupancy and shall be protected in accordance with NFPA 13, 2010 Edition.

**(d) Design Approach:**

Design criteria for the building shall consist of an automatic wet pipe sprinkler system – ordinary temperature rated quick response sprinklers per the requirements of NFPA 13, 2010 Edition.

Light Hazard: 0.10 gpm per square foot over the most remote 1500 square feet area – maximum sprinkler coverage area shall be 225 square feet area reduction per 11.2.3.2.3.1

**(e) Characteristics of the Water Supply:**

The water supply for this project shall be per the original utility plans and is a 8" circulating water main on the site. The duration has been determined to be good based upon the flow test results provided in item (f) below.

**(f) Flow Test:**

Results of the flow test performed by Hose Monster, Fire Flow Tester on 04/24/2017 **are as follows;**  
**Static Pressure = 83 PSI; Residual Pressure = 75 PSI** flowing 1,957GPM. Fire Flow @ **20 PSI =5,964GPM**. These results are considered adequate for the duration required. The flow test was conducted at Hydrant ID #09-146 located at. It is noted that these flow test results shall be extrapolated by the North Collier Fire Control District Code Official prior to beginning the design for the fire sprinkler system. It has been determined that with the depletion of water pressure due to area development, the available water pressure shall be sufficient for supplying the required duration as well as the hydraulic demand required by the fire sprinkler system.

**(g) Valving and Alarm Requirements:**

A paddle type water flow indicator shall be installed on the fire sprinkler riser. The valves on the backflow device shall be indicating and have tamper switches installed on them. These devices shall be monitored by a fire alarm system with remote station monitoring. All fire alarm devices and installation shall comply with NFPA 72, 2010 Edition, the National Fire Alarm Code.

**(h) Microbial Induced Corrosion:**

The local water purveyor, City of Naples, acknowledges that the water services provided meet or exceed state and federal corrosion water control quality parameters. Based on documentation provided by the utility department, I believe MIC is not a concern at this time.

**(i) Backflow Prevention and Metering Specification:**

Provide backflow prevention assembly and metering equipment to meet the requirements of Collier County Public Utilities Division. Maximum pressure drop through the assembly shall not exceed 14 PSI @ 7.5 FPS

**(j) Quality and Performance Specifications:**

Provide yard and interior fire protection equipment that is UL listed and/or FM approved for fire protection use where applicable per NFPA 13 (2010 Edition).

**(k) Fire pump requirements:**

There is no fire pump for this project.

**(l) Storage tank requirements:**

There are no storage tanks for this project.

**(m) Owner’s Certificate for storage occupancies:**

This is not a storage occupancy.

The fire sprinkler contractor shall prepare and submit for review, shop drawings of proposed fire sprinkler system that indicate compliance with the 61G15 design criteria described in these plans and specifications. Shop drawings shall include as a minimum Layout Drawings as defined in the Florida Statutes, Hydraulic Calculations, and Material and Performance Data Sheets for sprinklers, piping, valves, backflow prevention devices, and other appurtenances proposed for use in the sprinkler system. Shop drawings shall be provided for review to the engineer of record and to the Authority Having Jurisdiction. As per Florida Statutes, Layout Drawings are not required to be signed and sealed by the project engineer of record.

Should you have questions or require additional information, please contact this office.

Michael D. Stewart, PE, LEED AP  
Principal  
FL Reg. #72459



**This item has been electronically signed and sealed by Michael D. Stewart, PE. On the date specified using a SHA-1 authentication code.**

**Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.**



**NORTH COLLIER FIRE CONTROL AND RESCUE DISTRICT**  
**PREVENTION BUREAU**

M. James Burke ■ Christopher L. Crossan ■ Norman E. Feder ■ J. Christopher Lombardo ■ John O. McGowan

April 24, 2017

Mr. Patrick Hartig  
Schenke Shultz  
2640 Golden Gate Parkway #306  
Naples, FL 34105

Dear Mr. Hartig,

Email: [phartig@schinkelshultz.com](mailto:phartig@schinkelshultz.com)

Re: Hydrant Flow Test @ Kraft Office Center – 3555 Kraft Road

(Flow Hydrant #09-146 – Static Residual Hydrant #09-144)

The North Collier Fire Control and Rescue District has conducted a flow test at the above location. This also will serve as an invoice and receipt in the amount of \$100.00 to cover the cost of the flow test (Paid Credit Card).

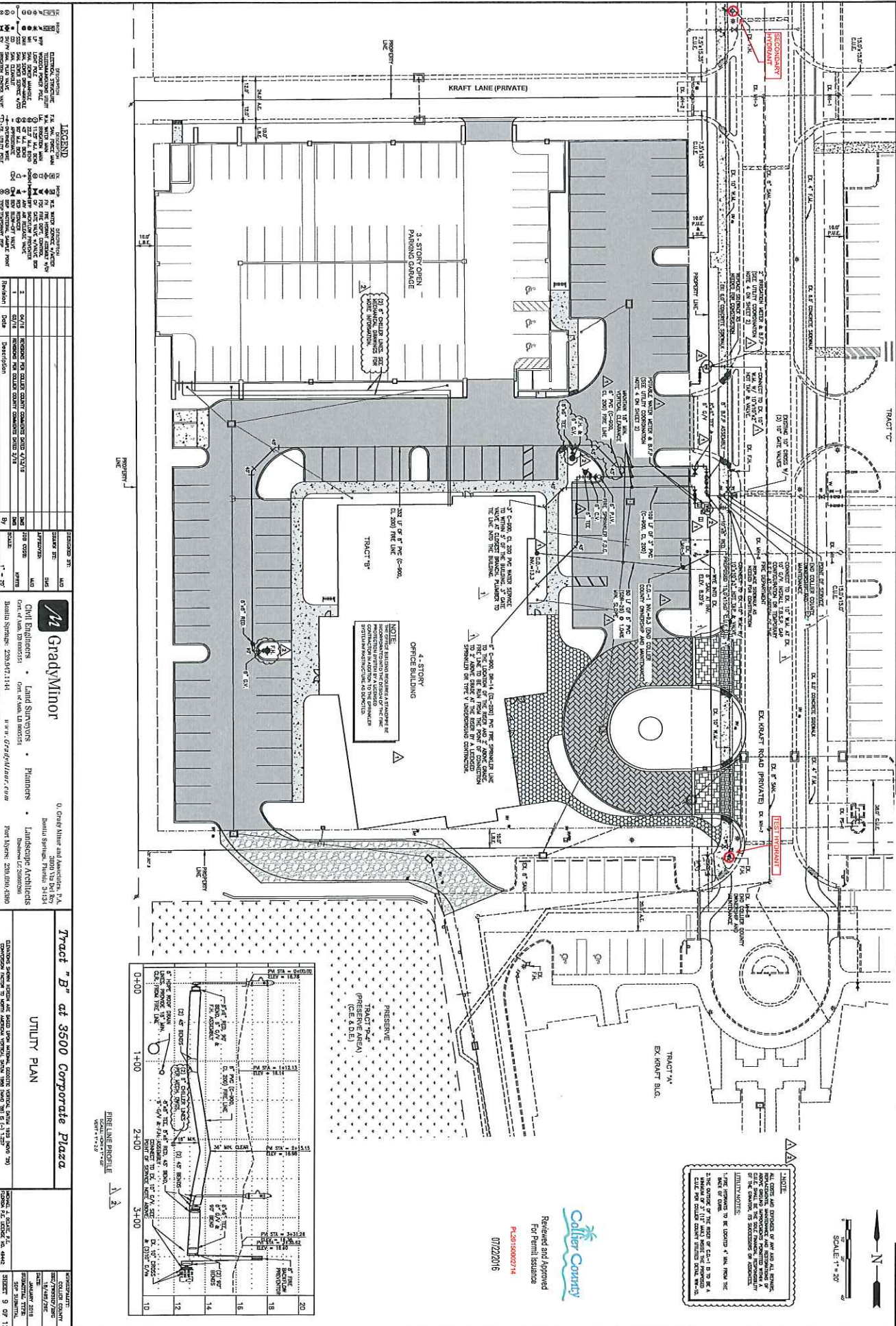
Static:	83	Residual:	75
Total Flow GPM:	1,957	Pitot:	34 x 2 Ports
Flow @ 20 PSI GPM:	5,964	Time:	10:29 AM – 4-20-17

If you have any questions, please do not hesitate to contact me @ (239) 597-9227.

Sincerely,

Eloy Ricardo  
Assistant Chief of Life Safety & Fire Prevention  
North Collier Fire District

PLEASE INCLUDE PLOT PLAN WITH FLOW LETTER WHEN SUBMITTING TO THE FIRE CODE OFFICIALS.



Revisions	Date	Description
1	04/14	ISSUE FOR PERMIT
2	04/14	ISSUE FOR PERMIT

**GradyMinor**  
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 Raleigh, NC 27601  
 Phone: 919.871.1144  
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**Tract "B" at 3500 Corporate Plaza**  
 UTILITY PLAN

DATE: 04/14/2016  
 DRAWN BY: JMM  
 CHECKED BY: JMM  
 SHEET 9 OF 12