

GROWTH MANAGEMENT

205 North Marion Ave.
Lake City, FL 32055
Telephone: (386)719-5750
E-Mail:
growthmanagement@lcfla.com

FOR PLANNING USE ONLY

Application # SPR 22-05
Application Fee: \$200.00
Receipt No. _____
Filing Date _____
Completeness Date _____

Site Plan Application

A. PROJECT INFORMATION

1. Project Name: Lake City Medical Center - ED Expansion, Pharmacy and Dietary Renovation
2. Address of Subject Property: 340 NW Commerce Dr., Lake City, FL 32055
3. Parcel ID Number(s): 35-3S-16-02556-003
4. Future Land Use Map Designation: Commercial - Columbia County
5. Zoning Designation: CG (Commercial General Columbia County)
6. Acreage: +/-41.25 ac
7. Existing Use of Property: Medical
8. Proposed use of Property: Medical
9. Type of Development (Check All That Apply):
 - ☒ Increase of floor area to an existing structure: Total increase of square footage 11,130 SF
 - ☐ New construction: Total square footage _____
 - ☐ Relocation of an existing structure: Total square footage _____

B. APPLICANT INFORMATION

1. Applicant Status ☒ Owner (title holder) ☐ Agent
2. Name of Applicant(s): Jill Adams Title: _____
Company name (if applicable): Notami Hospitals of Florida, Inc. dba Lake City Medical Center
Mailing Address: 340 NW Commerce Dr., Lake City, FL 32055
City: Lake City State: FL Zip: 32055
Telephone: (386) 719-9000 Fax: () Email: Jill.Adams@HCAHealthcare.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

3. If the applicant is agent for the property owner*.

Property Owner Name (title holder): _____
Mailing Address: _____
City: _____ State: _____ Zip: _____
Telephone: () _____ Fax: () _____ Email: _____

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

***Must provide an executed Property Owner Affidavit Form authorizing the agent to act on behalf of the property owner.**

C. ADDITIONAL INFORMATION

1. Is there any additional contract for the sale of, or options to purchase, the subject property?
If yes, list the names of all parties involved: _____
If yes, is the contract/option contingent or absolute: ☐ Contingent ☐ Absolute
2. Has a previous application been made on all or part of the subject property? ☒ Yes ☐ No
Future Land Use Map Amendment: ☐ Yes ☒ No
Future Land Use Map Amendment Application No. _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning): ☐ Yes ☒ No
Site Specific Amendment to the Official Zoning Atlas (Rezoning) Application No. _____
Variance: ☐ Yes ☒ No
Variance Application No. _____
Special Exception: ☐ Yes ☒ No
Special Exception Application No. _____

D. ATTACHMENT/SUBMITTAL REQUIREMENTS

1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.
2. Site Plan – Including, but not limited to the following:
 - a. Name, location, owner, and designer of the proposed development.
 - b. Present zoning for subject site.
 - c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.
 - d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.
 - e. Area and dimensions of site (Survey).
 - f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
 - g. Access to utilities and points of utility hook-up.
 - h. Location and dimensions of all existing and proposed parking areas and loading areas.
 - i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).
 - j. Location and size of any lakes, ponds, canals, or other waters and waterways.
 - k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.
 - l. Location of trash receptacles.
 - m. For multiple-family, hotel, motel, and mobile home park site plans:
 - i. Tabulation of gross acreage.
 - ii. Tabulation of density.
 - iii. Number of dwelling units proposed.
 - iv. Location and percent of total open space and recreation areas.
 - v. Percent of lot covered by buildings.

- vi. Floor area of dwelling units.
 - vii. Number of proposed parking spaces.
 - viii. Street layout.
 - ix. Layout of mobile home stands (for mobile home parks only).
3. Stormwater Management Plan—Including the following:
- a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
 - b. Proposed finished elevation of each building site and first floor level.
 - c. Existing and proposed stormwater management facilities with size and grades.
 - d. Proposed orderly disposal of surface water runoff.
 - e. Centerline elevations along adjacent streets.
 - f. Water management district surface water management permit.
4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office ("ISO") and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.
5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.
6. Comprehensive Plan Consistency Analysis: An analysis of the application's consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).
7. Legal Description with Tax Parcel Number (In Word Format).
8. Proof of Ownership (i.e. deed).
9. Agent Authorization Form (signed and notarized).
10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector's Office).
11. Fee. The application fee for a Site and Development Plan Application is \$200.00. No application shall be accepted or processed until the required application fee has been paid.

NOTICE TO APPLICANT

All eleven (11) attachments are required for a complete application. Once an application is submitted and paid for, a completeness review will be done to ensure all the requirements for a complete application have been met. If there are any deficiencies, the applicant will be notified in writing. If an application is deemed to be incomplete, it may cause a delay in the scheduling of the application before the Planning & Zoning Board.

A total of ten (10) copies of proposed site plan application and all support materials must be submitted along with a PDF copy on a CD. See City of Lake City submittal guidelines for additional submittal requirements.

THE APPLICANT ACKNOWLEDGES THAT THE APPLICANT OR AGENT MUST BE PRESENT AT THE PUBLIC HEARING BEFORE THE PLANNING AND ZONING BOARD, AS ADOPTED IN THE BOARD RULES AND PROCEDURES. OTHERWISE THE REQUEST MAY BE CONTINUED TO A FUTURE HEARING DATE.

I hereby certify that all of the above statements and statements contained in any documents or plans submitted herewith are true and accurate to the best of my knowledge and belief.

Jill Adams, Chief Executive Officer

Applicant/Agent Name (Type or Print)

J Adams
Applicant/Agent Signature

2/2/2022
Date

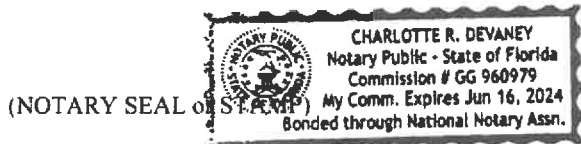
Applicant/Agent Name (Type or Print)

Applicant/Agent Signature

Date

STATE OF FLORIDA
COUNTY OF Columbia

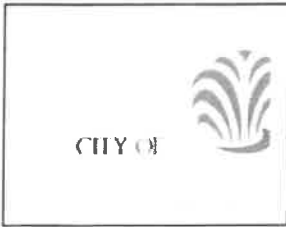
The foregoing instrument was acknowledged before me this 2 day of Feb, 2022, by (name of person acknowledging).



Charlotte R. DeVaney
Signature of Notary
Charlotte R. DeVaney
Printed Name of Notary

Personally Known ☒ OR Produced Identification ☐
Type of Identification Produced

City of Lake City – Growth Management Department
205 North Marion Ave, Lake City, FL 32055 ♦ (386) 719-5750



GROWTH MANAGEMENT

205 North Marion Ave.
Lake City, FL 32055
Telephone: (386)719-5750
E-Mail:
growthmanagement@lcfla.com

FOR PLANNING USE ONLY

Application # SPR 22-07

Application Fee: \$200.00

Receipt No. _____

Filing Date _____

Completeness Date _____

Site Plan Application

A. PROJECT INFORMATION

1. Project Name: Lake City Medical Center - Ancillary Building
2. Address of Subject Property: 340 NW Commerce Dr., Lake City, FL 32055
3. Parcel ID Number(s): 35-3S-16-02556-003
4. Future Land Use Map Designation: Commercial - Columbia County
5. Zoning Designation: CG (Commercial General Columbia County)
6. Acreage: +/-41.25 ac
7. Existing Use of Property: Medical
8. Proposed use of Property: Medical
9. Type of Development (Check All That Apply):
 - ☐ Increase of floor area to an existing structure: Total increase of square footage _____
 - ☒ New construction: Total square footage 13,800 SF
 - ☐ Relocation of an existing structure: Total square footage _____

B. APPLICANT INFORMATION

1. Applicant Status ☒ Owner (title holder) ☐ Agent
2. Name of Applicant(s): Jill Adams Title: _____
Company name (if applicable): Notami Hospitals of Florida, Inc. dba Lake City Medical Center
Mailing Address: 340 NW Commerce Dr., Lake City, FL 32055
City: Lake City State: FL Zip: 32055
Telephone: (386) 719-9000 Fax: () Email: Jill.Adams@HCAHealthcare.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

3. If the applicant is agent for the property owner*.
Property Owner Name (title holder): _____
Mailing Address: _____
City: _____ State: _____ Zip: _____
Telephone: () Fax: () Email: _____

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

***Must provide an executed Property Owner Affidavit Form authorizing the agent to act on behalf of the property owner.**

C. ADDITIONAL INFORMATION

1. Is there any additional contract for the sale of, or options to purchase, the subject property?
If yes, list the names of all parties involved: _____
If yes, is the contract/option contingent or absolute: ☐ Contingent ☐ Absolute
2. Has a previous application been made on all or part of the subject property? ☒ Yes ☐ No
Future Land Use Map Amendment: ☐ Yes ☒ No
Future Land Use Map Amendment Application No. _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning): ☐ Yes ☒ No
Site Specific Amendment to the Official Zoning Atlas (Rezoning) Application No. _____
Variance: ☐ Yes ☒ No
Variance Application No. _____
Special Exception: ☐ Yes ☒ No
Special Exception Application No. _____

D. ATTACHMENT/SUBMITTAL REQUIREMENTS

1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.
2. Site Plan – Including, but not limited to the following:
 - a. Name, location, owner, and designer of the proposed development.
 - b. Present zoning for subject site.
 - c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.
 - d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.
 - e. Area and dimensions of site (Survey).
 - f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
 - g. Access to utilities and points of utility hook-up.
 - h. Location and dimensions of all existing and proposed parking areas and loading areas.
 - i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).
 - j. Location and size of any lakes, ponds, canals, or other waters and waterways.
 - k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.
 - l. Location of trash receptacles.
- m. For multiple-family, hotel, motel, and mobile home park site plans:
 - i. Tabulation of gross acreage.
 - ii. Tabulation of density.
 - iii. Number of dwelling units proposed.
 - iv. Location and percent of total open space and recreation areas.
 - v. Percent of lot covered by buildings.

- vi. Floor area of dwelling units.
 - vii. Number of proposed parking spaces.
 - viii. Street layout.
 - ix. Layout of mobile home stands (for mobile home parks only).
3. Stormwater Management Plan—Including the following:
 - a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
 - b. Proposed finished elevation of each building site and first floor level.
 - c. Existing and proposed stormwater management facilities with size and grades.
 - d. Proposed orderly disposal of surface water runoff.
 - e. Centerline elevations along adjacent streets.
 - f. Water management district surface water management permit.
 4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office ("ISO") and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.
 5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.
 6. Comprehensive Plan Consistency Analysis: An analysis of the application's consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).
 7. Legal Description with Tax Parcel Number (In Word Format).
 8. Proof of Ownership (i.e. deed).
 9. Agent Authorization Form (signed and notarized).
 10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector's Office).
 11. Fee. The application fee for a Site and Development Plan Application is \$200.00. No application shall be accepted or processed until the required application fee has been paid.

NOTICE TO APPLICANT

All eleven (11) attachments are required for a complete application. Once an application is submitted and paid for, a completeness review will be done to ensure all the requirements for a complete application have been met. If there are any deficiencies, the applicant will be notified in writing. If an application is deemed to be incomplete, it may cause a delay in the scheduling of the application before the Planning & Zoning Board.

A total of ten (10) copies of proposed site plan application and all support materials must be submitted along with a PDF copy on a CD. See City of Lake City submittal guidelines for additional submittal requirements.

THE APPLICANT ACKNOWLEDGES THAT THE APPLICANT OR AGENT MUST BE PRESENT AT THE PUBLIC HEARING BEFORE THE PLANNING AND ZONING BOARD, AS ADOPTED IN THE BOARD RULES AND PROCEDURES. OTHERWISE THE REQUEST MAY BE CONTINUED TO A FUTURE HEARING DATE.

I hereby certify that all of the above statements and statements contained in any documents or plans submitted herewith are true and accurate to the best of my knowledge and belief.

Jill Adams, Chief Executive Officer

Applicant/Agent Name (Type or Print)

J Adams

Applicant/Agent Signature

2/2/2022

Date

Applicant/Agent Name (Type or Print)

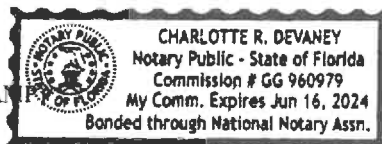
Applicant/Agent Signature

Date

STATE OF FLORIDA
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 2 day of Feb, 2022 by (name of person acknowledging).

(NOTARY SEAL or STATE OF FLORIDA)



Charlotte R. Devaney
Signature of Notary

Charlotte R. Devaney
Printed Name of Notary

Personally Known ☒ OR Produced Identification _____
Type of Identification Produced

City of Lake City – Growth Management Department
205 North Marion Ave, Lake City, FL 32055 ♦ (386) 719-5750

Prior Year Taxes Due

NO DELINQUENT TAXES

Lake City Medical Center

340 NW Commerce Drive, Lake City, FL 32055

Columbia County Tax Parcel No. 35-3S-16-02556-003

Area: +/- 41.25 ac

Owner: Notami Hospitals of FL Inc

Legal description from Columbia County GIS:

COMM NW COR OF SW1/4 OF NW1/4, RUN E 1223.10 FT FOR POB, CONT E 715 FT, S 1570.49 FT, S 83 83 DG E 353.97 FT, S 7 DG W 197.96 FT, W 15 FT, S 7 DG W 244.15 FT, S 84 DG W 257.88 FT, S 80 DG W 719.17 FT, RUN N 310.89 FT TO S LINE OF A PROPOSED 60-FOOT RD, RUN SW ALONG R/W 239.30 FT TO A CURVE RUN SW'RLY ALONG CURVE 46.23 FT TO E R/W OF CO RD, NW 25 DG W ALONG R/W 113.36 FT TO A CURVE, RUN N'RLY ALONG CURVE 107.57 FT, N 05 DG E 1367.72 FT TO PT OF CURVE, RUN N'RLY ALONG CURVE 131.69 FT, E 203.43 FT, N 5 DG E 212.31 FT TO POB, EX 5.27 AC TO CO FOR PROPOSED RD AS DESC ORB 836-1372 & EX A PARCEL TO CITY OF LAKE CITY DESC ORB 877-2446 & EX 0.60 AC PER LETTER DATED 12/14/01. ORB 633-183, 679-644, 776-872, 836-468 THRU 508, & EAST 1/2 OF RD CLOSED AS DESC IN RESOL NO 98-R-29 IN ORB 865-2213

SAP:wt.
03/02/97
4250.03-96-487

0492
This Instrument Prepared by
DANIEL J. WILSON & PARRIS
Attorneys at Law
827 North Main Street
Lake City, Florida 32809
OFFICE

97-03324

Documentary Stamp
Intangible Tax
P. DeWitt Cason
Clerk of Court
By D.C.

TRUSTEE'S DEED

THIS INDENTURE made this 5 day of March, 1997, between MILLER M. COOPER, as Trustee of Sentry Profit Sharing Trust, who does not reside on the property hereafter described, whose mailing address is 2727 Ulmerton Road, Suite 230, Clearwater, Florida 34622, (herein "Grantor") to NOTAMI HOSPITALS OF FLORIDA, INC., a Florida corporation, whose mailing address is One Park Plaza, Post Office Box 550, Nashville, Tennessee 37202-0550, (herein "Grantee").

W I T N E S S E T H:

That Grantor, for and in consideration of the sum of \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys, and confirms unto Grantee, all of Grantor's right, title and interest in and to the following described property situate in Columbia County, Florida, viz:

TOWNSHIP 3 SOUTH, RANGE 16 EAST

Section 35: COMMENCE at the Northwest corner of the Southwest 1/4 of the Northwest 1/4 of said Section 35, Columbia County, Florida, and run N 87°20'18"E. along the North line of the South 1/2 of the Northwest 1/4 a distance of 1223.10 feet to the POINT OF BEGINNING; thence continue N 87°20'18" E. still along said North line 715.00 feet; thence S 02°14'18"W. 1570.49 feet; thence S 83°56'38"E. 353.97 feet to a point on the Westerly line of a 30 foot ingress/egress easement; thence S 07°26'25"W. along said Westerly line 197.96 feet to a point on the Northerly end of the Right-of-Way of a 60 foot County Road; thence N 83°55'31" W. along said Northerly end of the Right-of-Way of a 60 foot County Road 15.00 feet to a point on the Westerly Right-of-Way line of said 60 foot County Road; thence S 07°42'22"W. along said Westerly Right-of-Way line 244.15 feet; thence S 84°45'48"W. 257.88 feet; thence S.80°55'18"W. 575.38 feet; thence N 05°55'16"E. 663.14 feet; thence N 84°02'56"W. 322.54 feet to a point on a line formerly dividing lands of James Moore and L.B.Turner; thence S 05°48'54"W along said line 174.55 feet; thence N 84°11'06"W. 150.00 feet to a point on the Easterly Right-of-Way line of a 60 foot County Road; thence N 05°48'54"E. along said Easterly

EX 0836 PG 0493

OFFICIAL RECORDS

Right-of-Way line 1253.72 feet to the Point of Curve of a curve concave to the Southwest having a radius of 160.00 feet and a central angle of 47°09'31", said curve also having a Chord bearing and distance of N 17°45'53"W. 128.01 feet; thence Northerly along the arc of said curve, being also the Easterly Right-of-Way line of said 60 foot County Road 131.69 feet; thence N 87°20'18"E. 203.43 feet to a point on a line formerly dividing lands of James Moore and L.B. Turner; thence N 05°48'54"E. along said line 212.31 feet to the POINT OF BEGINNING.

TAX PARCEL NO: Parts of 35-3S- [REDACTED] and
35-3S- [REDACTED].

TOGETHER with all the tenements, hereditaments, and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same unto Grantee and to the proper use, benefit and behoove of Grantee, its successors and assigns, in fee simple forever. This deed is executed pursuant to and in the exercise of the power and authority vested in Grantor, as Trustee of Sentry Profit Sharing Trust, as evidenced by affidavit and excerpts from said Profit Sharing Trust Agreement attached hereto as Exhibit "A" and Grantor further warrants and represents to Grantee, that Grantor has full power and lawful authority to execute and deliver this deed; that Grantor is the owner of undivided one-half (1/2) interest in and to the above described property in fee simple; and Grantor will warrant and defend the title to said property against the claims of all persons whomsoever, provided, however, this deed is made subject to all restrictions and easements, if any, of record, and the lien and encumbrance of taxes accruing subsequent to December 31, 1996.

EX 0836 PG 0494

IN WITNESS WHEREOF, Grantor has executed and delivered this instrument the day and year first above written.

Signed, sealed and delivered
in the presence of:

Lynn H. Edwards
Lynn H. Edwards
(Print or Type Name)

MILLER M. COOPER
MILLER M. COOPER, as Trustee
of Sentry Profit Sharing Plan

Theresa M. Johnson
Theresa M. Johnson
(Print or Type Name)

STATE OF FLORIDA

COUNTY OF Hillsborough

The foregoing instrument was acknowledged before me this
5 day of March, 1997, by MILLER M. COOPER, as Trustee of
Sentry Profit Sharing Trust, who is personally known to me, or who
has produced _____ as
identification.

(NOTARIAL
SEAL)

Theresa Marie L. Johnson
Notary Public, State of Florida
Theresa Marie L. Johnson
(Print or Type Name)
My commission expires:



THERESA MARIE L. JOHNSON
My Commission CC543871
Expires Mar 28 2000

AFFIDAVIT AS TO EXISTENCE OF TRUST

STATE OF FLORIDA

COUNTY OF PINELLAS

EX 836 PG0495

OFFICIAL RECORDS

BEFORE ME, the undersigned authority, personally appeared MILLER M. COOPER ("Affiant"), who is personally known to me, and who, after being duly sworn, deposes and says:

1. Affiant is the sole trustee under and pursuant to Profit Sharing Plan and Trust Agreement dated December 29, 1980, having an effective date of January 1, 1980, established by Sentry Engineering & Construction, Inc., a Georgia Corporation, and known as Sentry Profit Sharing Plan (herein "the Plan").

2. The Trust created pursuant to the terms of the Plan is an active, ongoing trust which has continuously been active since the date of its inception for the benefit of the participants (as defined in the Plan), and Affiant has been actively engaged as Trustee under and pursuant to the terms of the Plan since its inception.

3. Attached hereto as Exhibit "A" are excerpts from Article IX of the Plan showing the power and authority of Affiant as Trustee to act for and on behalf of the Plan and the Trust created thereby for the purpose of buying, selling, exchanging, and managing property owned or held by the Trust. Affiant affirms that the attached Exhibit "A" is a true, correct and accurate copy of those excerpts from Article IX of the Plan showing the authority of Affiant as Trustee, and such remains unrevoked, unamended, and not modified.

4. The Plan and the Trust created thereby have never been amended, modified, or revoked, and the same remain in full force and effect as of the date of this affidavit.

FURTHER AFFIANT SAYETH NAUGHT.


MILLER M. COOPER

SWORN TO AND SUBSCRIBED before me this 5 day of March, 1997, by MILLER M. COOPER, who is personally known to me.

(NOTARIAL
SEAL)



TERESA MARIE I. KIPP
My Commission C0541821
Expires Mar 28 2001


Notary Public, State of Florida
Theresa M. Kipp
(Print or Type Name)
My Commission Expires:

EXHIBIT "A"

ARTICLE IX
MANAGEMENT OF TRUST FUND

The Trustee and his successors shall have the power to do all things and execute such instruments as may be deemed necessary or proper, including the following powers, all of which may be exercised without order of or report to any court and without bond:

[1] To sell, exchange or otherwise dispose of any property at any time held or acquired under this Trust, at public or private sale, for cash or on terms, without advertisement, including the right to lease for any term notwithstanding the period of the Trust;

[2] To vote in person or by proxy any corporate stock or other security and to agree to or take any other action in regard to any reorganization, merger, consolidation, liquidation, bankruptcy or other procedure or proceeding affecting any stock, bond, note or other property;

[3] To compromise, settle and/or adjust any claim or demand by or against the Trust and to agree to any rescission or modification of any contract or agreement affecting such Trust;

[4] To borrow money and to secure the same by mortgaging, pledging and/or conveying any property of the Trust, including the acquisition of stocks and other securities on margin; and to lend money on good security;

[5] To register any stock, bond or other security in the name of a nominee, without the addition of words indicating that such security is held in a fiduciary capacity, but accurate records shall be maintained showing that such security is a Trust asset and the Trustee shall be responsible for the acts of such nominee;

[6] To hold cash in such amounts as may be in his opinion reasonable for the proper operation of this Trust;

[7] To invest all monies in such stocks, bonds, securities, investment company or trust shares, puts and calls, options, mutual funds, mortgages, notes, choses in action, real estate, improvements thereon, and other property including any common trust fund maintained by any Trustee;

[8] To invest and reinvest a portion of a Participant's account in whole life, term or income endowment-type life insurance policy contracts

issued by a legal reserve life insurance company on his life. The Trustee shall be the owner of such ordinary life insurance contracts, and as such shall have, exercise and enjoy all of the rights, powers, options, privileges and benefits usually referred to as "incidents of ownership" and normally vested in the insured or owner of such contracts, provided that any death benefits received by the Trustee under such contracts shall be paid to the Beneficiary designated by the Participant, it being further agreed that the issuing insurance company shall not be deemed to be a party to this Trust or to the Plan. Any dividend payable under any insurance contract issued hereunder shall be used to increase the value of the contract or paid under such other available option as the Trustee may elect. If a Participant is insurable only at substandard rates, a life insurance contract may provide (i) for an appropriately lesser death benefit or (ii) for the full death benefit, in the Trustee's discretion. If a Participant is uninsurable, application may be made for an annuity contract.

The amount invested or reinvested on such insurance contracts shall not exceed the following stated percentages of Employer and Employee contributions allocated to a Member's account at any particular time.

<u>Type of Contract</u>	<u>Employer's Contribution (plus forfeitures)</u>	<u>Employee's Contribution</u>
[a] Whole life or limited pay life	49.9%	100%
[b] Term life	25.0%	100%
[c] Income endowment [involving life insurance]	100.0%	100%

NOTE: If both contract types [a] and [b] are purchased on one life, the sum of type [a] premium, plus twice the type [b] premium must satisfy the 49.9% limit.

The Trustee may establish a smaller maximum life insurance investment or a maximum life insurance face amount, both subject to the above-described percentage limitations, provided the formulas established by the Trustee are applied uniformly to all Participants.

The foregoing limits do not preclude the use on any contract of the disability waiver of premium benefit. No life insurance contract purchased by the Trustee for a Participant shall be allowed to continue after a Participant's retirement.

[9] To make such investments as the Trustee in his discretion shall deem best without regard to any law now or hereafter in force limiting the investment of trustees of other fiduciaries.

[10] In addition to the powers herein stated, the Trustee shall have all of the rights granted to fiduciaries under Sec. 4 of the Act numbered 433 published in 1973 Georgia laws, pages 846-856, which statute is hereby incorporated by reference and made a part hereof.

BK 0896 PG 0498
OFFICIAL RECORDS



**21 1000B Hydraulic Calculations First Floor Ancillary Building
AMENDMENT NO. 1-1- 01/28/2022**



HYDRAULIC CALCULATIONS

FOR

Lake City MC ED & Ancillary
Addition & Renovation

FILE NUMBER: 210404
DATE: JAN 26, 2022

-DESIGN DATA-

OCCUPANCY CLASSIFICATION:	Light Hazard
DENSITY:	0.1 gpm/sq. ft.
AREA OF APPLICATION:	1500 sq. ft.
COVERAGE PER SPRINKLER:	185 sq. ft.
NUMBER OF SPRINKLERS CALCULATED:	12 sprinklers
TOTAL SPRINKLER WATER FLOW REQUIRED:	262 gpm
TOTAL WATER REQUIRED (including hose):	362 gpm
FLOW AND PRESSURE (@ BOR):	262 gpm @ 58.2 psi
SPRINKLER ORIFICE SIZE:	1/2 inch
DESIGN/LAYOUT BY:	IC Thomasson
AUTHORITY HAVING JURISDICTION:	AHCA

CALCULATIONS BY HASS COMPUTER PROGRAM (LICENSE # 64836407)

HRS SYSTEMS, INC.

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 3

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF
JOB TITLE: First Floor

WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL @ DEMAND (GPM)	REQ'D PRESS. (PSI)
SRC	84.0	73.0	1055.0	82.5	362.0	58.2

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	362.0 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	100.0 GPM
OTHER HOSE STREAM ALLOWANCES	0.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	262.0 GPM

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
A	13.0	K= 5.60	13.5	20.6
B	9.0	K= 5.60	16.1	22.5
C	13.0	K= 5.60	16.5	22.8
D	13.0	K= 5.60	20.2	25.2
E	13.0	K= 5.60	11.0	18.5
F	13.0	K= 5.60	10.9	18.5
G	9.0	K= 5.60	13.7	20.7
H	13.0	K= 5.60	13.9	20.9
I	13.0	K= 5.60	16.2	22.5
J	13.0	K= 5.60	16.0	22.4
K	9.0	K= 5.60	18.3	23.9
L	9.0	K= 5.60	17.5	23.4
1	13.0	- - - -	15.7	- - -
2	13.0	- - - -	34.1	- - -
3	13.0	- - - -	11.6	- - -
4	13.0	- - - -	13.4	- - -
5	13.0	- - - -	14.9	- - -
6	13.0	- - - -	17.3	- - -
7	13.0	- - - -	34.2	- - -
8	13.0	- - - -	18.1	- - -
9	13.0	- - - -	20.2	- - -
10	13.0	- - - -	34.4	- - -
11	13.0	- - - -	37.1	- - -
12	2.0	- - - -	45.0	- - -
13	-3.0	- - - -	47.4	- - -
14	-3.0	- - - -	50.6	- - -
15	2.5	- - - -	48.5	- - -

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 4

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF

JOB TITLE: First Floor

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
16	2.5	- - - -	53.5	- - -
17	-3.0	- - - -	56.1	- - -
18	-3.0	- - - -	58.0	- - -
SRC	-3.0	SOURCE	58.2	262.0

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 5

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF
JOB TITLE: First Floor

PIPE DATA

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q (GPM)	DIA (IN)	LENGTH	PRESS.
NODES	(FT)	(K)	(PSI)	(GPM)	VEL (FPS)	HW (C)	FL/FT	(FT)	SUM.
									(PSI)
Pipe: 1									
A	13.0	5.6	13.5	20.6	-20.6	1.049	PL	13.58	PF 2.1
1	13.0	0.0	15.7	0.0	7.6	120	FTG	L	PE 0.0
						0.137	TL	15.58	PV
Pipe: 2									
B	9.0	5.6	16.1	22.5	-22.5	1.049	PL	2.75	PF 1.3
1	13.0	0.0	15.7	0.0	8.3	120	FTG	T	PE -1.7
						0.162	TL	7.75	PV
Pipe: 3									
1	13.0	0.0	15.7	0.0	-43.1	1.380	PL	6.17	PF 0.9
C	13.0	5.6	16.5	22.8	9.2	120	FTG	----	PE 0.0
						0.141	TL	6.17	PV
Pipe: 4									
C	13.0	5.6	16.5	22.8	-65.8	1.380	PL	12.00	PF 3.7
D	13.0	5.6	20.2	25.2	14.1	120	FTG	----	PE 0.0
						0.310	TL	12.00	PV
Pipe: 5									
D	13.0	5.6	20.2	25.2	-91.0	1.610	PL	44.08	PF 13.9
2	13.0	0.0	34.1	0.0	14.3	120	FTG	T	PE 0.0
						0.267	TL	52.08	PV
Pipe: 6									
2	13.0	0.0	34.1	0.0	-91.0	4.026	PL	14.00	PF 0.0
7	13.0	0.0	34.2	0.0	2.3	120	FTG	----	PE 0.0
						0.003	TL	14.00	PV
Pipe: 7									
E	13.0	5.6	11.0	18.5	-18.5	1.049	PL	5.17	PF 0.6
3	13.0	0.0	11.6	0.0	6.9	120	FTG	----	PE 0.0
						0.113	TL	5.17	PV
Pipe: 8									
F	13.0	5.6	10.9	18.5	-18.5	1.049	PL	5.67	PF 0.6
3	13.0	0.0	11.6	0.0	6.9	120	FTG	----	PE 0.0
						0.113	TL	5.67	PV
Pipe: 9									
3	13.0	0.0	11.6	0.0	-37.0	1.380	PL	10.83	PF 1.8
4	13.0	0.0	13.4	0.0	7.9	120	FTG	T	PE 0.0
						0.107	TL	16.83	PV
Pipe: 10									
G	9.0	5.6	13.7	20.7	-20.7	1.049	PL	5.17	PF 1.4
4	13.0	0.0	13.4	0.0	7.7	120	FTG	T	PE -1.7
						0.139	TL	10.17	PV
Pipe: 11									
4	13.0	0.0	13.4	0.0	-57.8	1.380	PL	6.17	PF 1.5
5	13.0	0.0	14.9	0.0	12.4	120	FTG	----	PE 0.0
						0.243	TL	6.17	PV

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 6

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF
JOB TITLE: First Floor

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q (GPM)	DIA (IN)	LENGTH	PRESS.	
	NODES	(FT)	(K)	(PSI)	(GPM)	VEL (FPS)	HW (C)	(FT)	SUM.	
							FL/FT		(PSI)	
Pipe: 12										
H		13.0	5.6	13.9	20.9	-20.9 7.8	1.049 PL 120	1.75 T	PF PE	1.0 0.0
5		13.0	0.0	14.9	0.0		0.141 TL	6.75	PV	
Pipe: 13										
5		13.0	0.0	14.9	0.0	-78.6 12.4	1.610 PL 120	12.00 ----	PF PE	2.4 0.0
6		13.0	0.0	17.3	0.0		0.203 TL	12.00	PV	
Pipe: 14										
I		13.0	5.6	16.2	22.5	-22.5 8.4	1.049 PL 120	1.75 T	PF PE	1.1 0.0
6		13.0	0.0	17.3	0.0		0.162 TL	6.75	PV	
Pipe: 15										
6		13.0	0.0	17.3	0.0	-101.2 15.9	1.610 PL 120	44.08 T	PF PE	16.9 0.0
7		13.0	0.0	34.2	0.0		0.324 TL	52.08	PV	
Pipe: 16										
7		13.0	0.0	34.2	0.0	-192.2 4.8	4.026 PL 120	16.75 ----	PF PE	0.2 0.0
10		13.0	0.0	34.4	0.0		0.012 TL	16.75	PV	
Pipe: 17										
J		13.0	5.6	16.0	22.4	-22.4 8.3	1.049 PL 120	10.83 L	PF PE	2.1 0.0
8		13.0	0.0	18.1	0.0		0.161 TL	12.83	PV	
Pipe: 18										
K		9.0	5.6	18.3	23.9	-23.9 8.9	1.049 PL 120	3.50 T	PF PE	1.5 -1.7
8		13.0	0.0	18.1	0.0		0.181 TL	8.50	PV	
Pipe: 19										
L		9.0	5.6	17.5	23.4	-23.4 8.7	1.049 PL 120	8.50 T	PF PE	2.3 -1.7
8		13.0	0.0	18.1	0.0		0.174 TL	13.50	PV	
Pipe: 20										
8		13.0	0.0	18.1	0.0	-69.8 15.0	1.380 PL 120	6.08 ----	PF PE	2.1 0.0
9		13.0	0.0	20.2	0.0		0.345 TL	6.08	PV	
Pipe: 21										
9		13.0	0.0	20.2	0.0	-69.8 11.0	1.610 PL 120	71.17 T4L	PF PE	14.2 0.0
10		13.0	0.0	34.4	0.0		0.163 TL	87.17	PV	
Pipe: 22										
10		13.0	0.0	34.4	0.0	-262.0 6.6	4.026 PL 120	114.00 2L	PF PE	2.7 0.0
11		13.0	0.0	37.1	0.0		0.022 TL	126.00	PV	

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 7

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF
 JOB TITLE: First Floor

PIPE TAG					Q (GPM)	DIA (IN)	LENGTH	PRESS.	
END	ELEV.	NOZ.	PT	DISC.	VEL (FPS)	HW (C)	(FT)	SUM.	
NODES	(FT)	(K)	(PSI)	(GPM)		FL/FT		(PSI)	
Pipe: 23					-262.0	4.026 PL	119.50	PF	3.2
11	13.0	0.0	37.1	0.0	6.6	120 FTG	LA	PE	4.8
12	2.0	0.0	45.0	0.0		0.022 TL	145.50	PV	
Pipe: 24					-262.0	4.026 PL	5.00	PF	0.2
12	2.0	0.0	45.0	0.0	6.6	120 FTG	L	PE	2.2
13	-3.0	0.0	47.4	0.0		0.022 TL	11.00	PV	
Pipe: 25					-262.0	4.026 PL	119.50	PF	3.2
13	-3.0	0.0	47.4	0.0	6.6	120 FTG	E3L	PE	0.0
14	-3.0	0.0	50.6	0.0		0.022 TL	147.50	PV	
Pipe: 26					-262.0	4.026 PL	5.50	PF	0.2
14	-3.0	0.0	50.6	0.0	6.6	120 FTG	L	PE	-2.4
15	2.5	0.0	48.5	0.0		0.022 TL	11.50	PV	
Pipe: 27									
16	2.5	0.0	53.5	0.0		FIXED PRESSURE LOSS DEVICE			
15	2.5	0.0	48.5	0.0		5.0 psi, 262.0 gpm			
Pipe: 28					-262.0	4.026 PL	5.50	PF	0.2
16	2.5	0.0	53.5	0.0	6.6	150 FTG	L	PE	2.4
17	-3.0	0.0	56.1	0.0		0.014 TL	14.57	PV	
Pipe: 29					-262.0	4.026 PL	57.00	PF	1.9
17	-3.0	0.0	56.1	0.0	6.6	120 FTG	ETG	PE	0.0
18	-3.0	0.0	58.0	0.0		0.022 TL	89.00	PV	
Pipe: 30					-262.0	7.981 PL	220.00	PF	0.1
18	-3.0	0.0	58.0	0.0	1.7	150 FTG	----	PE	0.0
SRC	-3.0	SRCE	58.2	(N/A)		0.001 TL	220.00	PV	

NOTES (HASS):

- (1) Calculations were performed by the HASS 2021 D computer program in accordance with NFPA13 (2020) under license no. 64836407 granted by
 HRS Systems, Inc.
 208 Southside Square
 Petersburg, TN 37144
 (931) 659-9760
- (2) The system has been calculated to provide an average imbalance at each node of 0.002 gpm and a maximum imbalance at any node of 0.070 gpm.

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF
JOB TITLE: First Floor

(3) Total pressure at each node is used in balancing the system.
Maximum water velocity is 15.9 ft/sec at pipe 15.

(4) Items listed in bold print on the cover sheet

are automatically transferred from the calculation report.

(5) Available pressure at source node SRC under full flow conditions is
81.95 psi with a flow of 425.27 gpm.

(6) PIPE FITTINGS TABLE

HASS Pipe Table Name: standard

PAGE: A MATERIAL: S40 HWC: 120

Diameter (in)	Equivalent Fitting Lengths in Feet								
	E Ell	T Tee	L LngEll	C ChkVlv	B BfyVlv	G GatVlv	A AlmChk	D DPVlv	N NTee

	F								
	F45Ell								
1.049	2.00	5.00	2.00	5.00	6.00	1.00	10.00	2.00	5.00
	1.00								
1.380	3.00	6.00	2.00	7.00	6.00	1.00	10.00	10.00	6.00
	1.50								
1.610	4.00	8.00	2.00	9.00	6.00	1.00	10.00	10.00	8.00
	2.00								
4.026	10.00	20.00	6.00	22.00	12.00	2.00	20.00	20.00	20.00
	5.00								
7.981	18.00	35.00	13.00	45.00	12.00	4.00	31.00	31.00	35.00
	9.00								

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

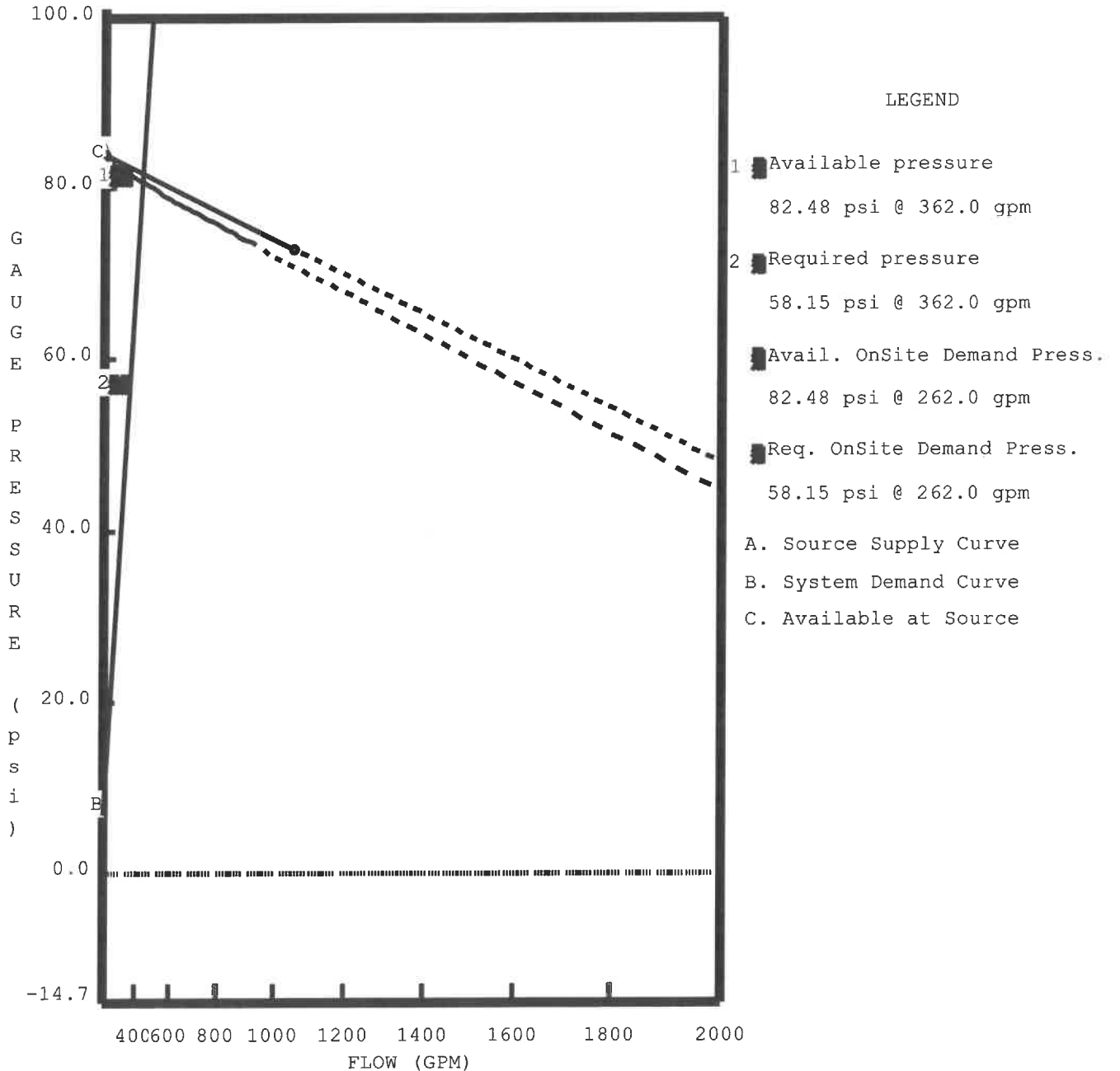
Page 9

DATE: 1/26/2022\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF

JOB TITLE: First Floor

WATER SUPPLY ANALYSIS

Static: 84.00 psi Resid: 73.00 psi Flow: 1055.0 gpm



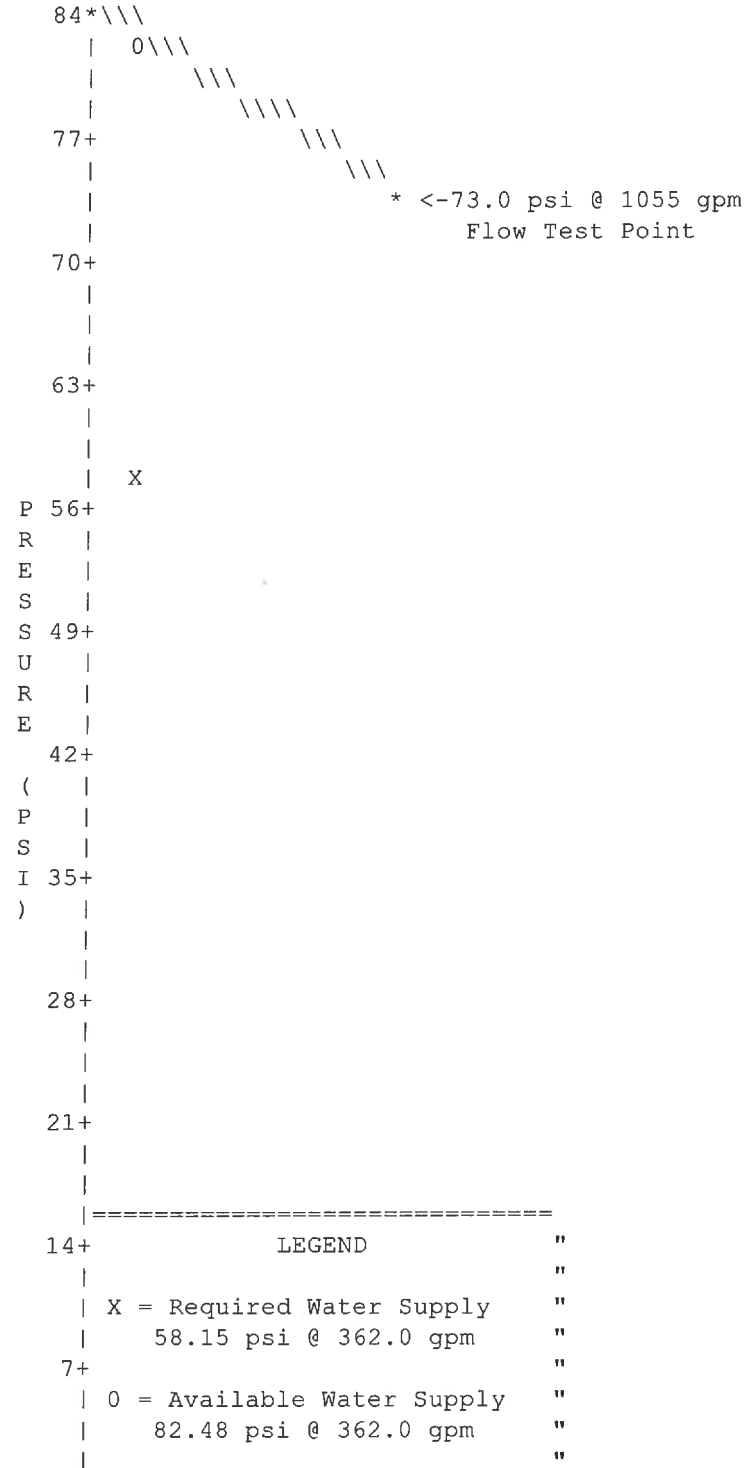
Note: (1) Dashed Lines indicate extrapolated values from Test Results

(2) On Site pressures are based on hose stream deduction at the source

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF

JOB TITLE: First Floor

WATER SUPPLY CURVE



SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 11

DATE: 1/26/2022O\ADMIN\FIRE PROTECTION\FIRST FLOOR ANCILLARY BUILDING.SDF

JOB TITLE: First Floor

0+--+-----+-----+-----+-----+-----+-----+-----+-----+
400 600 800 1000 1200 1400 1600 1800 2000
FLOW (GPM)

**21 1000C Hydraulic Calculations Loading Dock
AMENDMENT NO. 1-1- 01/28/2022**



HYDRAULIC CALCULATIONS

FOR

Lake City MC ED & Ancillary
Addition & Renovation

Loading Dock

FILE NUMBER: 210404>

DATE: JAN 26, 2022

-DESIGN DATA-

OCCUPANCY CLASSIFICATION:	Ordinary hazard Group 2
DENSITY:	0.17 gpm/sq. ft.
AREA OF APPLICATION:	1700 sq. ft. (Entire Area)
COVERAGE PER SPRINKLER:	66 sq. ft.
NUMBER OF SPRINKLERS CALCULATED:	23 sprinklers
TOTAL SPRINKLER WATER FLOW REQUIRED:	363.8 gpm
TOTAL WATER REQUIRED (including hose):	613.8 gpm
FLOW AND PRESSURE (@ BOR):	363.8 gpm @ 41.1 psi
SPRINKLER ORIFICE SIZE:	1/2 inch
DESIGN/LAYOUT BY:	IC Thomasson
AUTHORITY HAVING JURISDICTION:	AHCA

CALCULATIONS BY HASS COMPUTER PROGRAM (LICENSE # 64836407)
HRS SYSTEMS, INC.

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 3

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF

JOB TITLE: Loading Dock

WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL @ DEMAND (GPM)	REQ'D PRESS. (PSI)
SRC	84.0	73.0	1055.0	80.0	613.8	41.1

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	613.8 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	250.0 GPM
OTHER HOSE STREAM ALLOWANCES	0.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	363.8 GPM

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
A	9.0	K= 5.60	8.1	16.0
B	9.0	K= 5.60	8.1	16.0
C	9.0	K= 5.60	8.2	16.0
D	9.0	K= 5.60	8.2	16.0
E	9.0	K= 5.60	8.0	15.9
F	9.0	K= 5.60	8.0	15.8
G	9.0	K= 5.60	8.0	15.8
H	9.0	K= 5.60	7.0	14.8
I	9.0	K= 5.60	7.0	14.8
J	9.0	K= 5.60	7.1	14.9
K	9.0	K= 5.60	7.2	15.0
L	9.0	K= 5.60	7.2	15.0
M	9.0	K= 5.60	7.1	14.9
N	9.0	K= 5.60	7.0	14.8
O	9.0	K= 5.60	7.0	14.8
P	9.0	K= 5.60	8.8	16.6
Q	9.0	K= 5.60	8.8	16.6
R	9.0	K= 5.60	8.9	16.7
S	9.0	K= 5.60	9.0	16.8
T	9.0	K= 5.60	9.0	16.8
U	9.0	K= 5.60	8.9	16.7
V	9.0	K= 5.60	8.8	16.6
W	9.0	K= 5.60	8.8	16.6
L1	13.0	- - - -	7.6	- - -
L2	9.0	- - - -	8.5	- - -
L3	13.0	- - - -	7.6	- - -
L4	9.0	- - - -	8.5	- - -

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 4

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
JOB TITLE: Loading Dock

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
L5	13.0	- - - -	7.6	- - -
L6	9.0	- - - -	8.6	- - -
L7	13.0	- - - -	7.6	- - -
L8	9.0	- - - -	8.5	- - -
L9	13.0	- - - -	7.4	- - -
L10	9.0	- - - -	8.4	- - -
L11	13.0	- - - -	7.4	- - -
L12	9.0	- - - -	8.4	- - -
L13	13.0	- - - -	7.4	- - -
L14	9.0	- - - -	8.3	- - -
L15	13.0	- - - -	6.3	- - -
L16	9.0	- - - -	7.3	- - -
L17	13.0	- - - -	6.3	- - -
L18	9.0	- - - -	7.4	- - -
L19	13.0	- - - -	6.4	- - -
L20	9.0	- - - -	7.4	- - -
L21	13.0	- - - -	6.5	- - -
L22	9.0	- - - -	7.5	- - -
L23	13.0	- - - -	6.5	- - -
L24	9.0	- - - -	7.5	- - -
L25	13.0	- - - -	6.4	- - -
L26	9.0	- - - -	7.4	- - -
L27	13.0	- - - -	6.3	- - -
L28	9.0	- - - -	7.4	- - -
L29	13.0	- - - -	6.3	- - -
L30	9.0	- - - -	7.3	- - -
L31	13.0	- - - -	8.3	- - -
L32	9.0	- - - -	9.2	- - -
L33	13.0	- - - -	8.3	- - -
L34	9.0	- - - -	9.2	- - -
L35	13.0	- - - -	8.4	- - -
L36	9.0	- - - -	9.3	- - -
L37	13.0	- - - -	8.5	- - -
L38	9.0	- - - -	9.4	- - -
L39	13.0	- - - -	8.5	- - -
L40	9.0	- - - -	9.4	- - -
L41	13.0	- - - -	8.4	- - -
L42	9.0	- - - -	9.3	- - -
L43	13.0	- - - -	8.3	- - -
L44	9.0	- - - -	9.2	- - -
L45	13.0	- - - -	8.3	- - -
L46	9.0	- - - -	9.2	- - -
L47	13.0	- - - -	11.8	- - -
L48	13.0	- - - -	14.1	- - -
L49	13.0	- - - -	7.7	- - -
L50	13.0	- - - -	6.6	- - -

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 5

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF

JOB TITLE: Loading Dock

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
L51	13.0	- - - -	13.1	- - -
L52	13.0	- - - -	8.7	- - -
12	13.0	- - - -	17.8	- - -
13	-3.0	- - - -	25.6	- - -
14	-3.0	- - - -	31.5	- - -
15	2.5	- - - -	29.5	- - -
16	2.5	- - - -	34.5	- - -
17	-3.0	- - - -	37.3	- - -
18	-3.0	- - - -	40.9	- - -
SRC	-3.0	SOURCE	41.1	363.8

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 6

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
JOB TITLE: Loading Dock

PIPE DATA

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q (GPM)	DIA (IN)	LENGTH	PRESS.
NODES	(FT)	(K)	(PSI)	(GPM)	VEL (FPS)	HW (C)	FL/FT	(FT)	SUM.
									(PSI)
Pipe: 1									
A		9.0	5.6	8.1	16.0	-16.0	1.049 PL	2.50	PF 0.4
L2		9.0	0.0	8.5	0.0	5.9	120 FTG	L	PE 0.0
							0.086 TL	4.50	PV
Pipe: 2									
B		9.0	5.6	8.1	16.0	-16.0	1.049 PL	2.50	PF 0.4
L4		9.0	0.0	8.5	0.0	5.9	120 FTG	L	PE 0.0
							0.086 TL	4.50	PV
Pipe: 3									
C		9.0	5.6	8.2	16.0	-16.0	1.049 PL	2.50	PF 0.4
L6		9.0	0.0	8.6	0.0	6.0	120 FTG	L	PE 0.0
							0.086 TL	4.50	PV
Pipe: 4									
D		9.0	5.6	8.2	16.0	-16.0	1.049 PL	2.50	PF 0.4
L8		9.0	0.0	8.5	0.0	5.9	120 FTG	L	PE 0.0
							0.086 TL	4.50	PV
Pipe: 5									
E		9.0	5.6	8.0	15.9	-15.9	1.049 PL	2.50	PF 0.4
L10		9.0	0.0	8.4	0.0	5.9	120 FTG	L	PE 0.0
							0.085 TL	4.50	PV
Pipe: 6									
F		9.0	5.6	8.0	15.8	-15.8	1.049 PL	2.50	PF 0.4
L12		9.0	0.0	8.4	0.0	5.9	120 FTG	L	PE 0.0
							0.084 TL	4.50	PV
Pipe: 7									
G		9.0	5.6	8.0	15.8	-15.8	1.049 PL	2.50	PF 0.4
L14		9.0	0.0	8.3	0.0	5.9	120 FTG	L	PE 0.0
							0.084 TL	4.50	PV
Pipe: 8									
L2		9.0	0.0	8.5	0.0	-16.0	1.049 PL	4.00	PF 0.8
L1		13.0	0.0	7.6	0.0	5.9	120 FTG	T	PE -1.7
							0.086 TL	9.00	PV
Pipe: 9									
L4		9.0	0.0	8.5	0.0	-16.0	1.049 PL	4.00	PF 0.8
L3		13.0	0.0	7.6	0.0	5.9	120 FTG	T	PE -1.7
							0.086 TL	9.00	PV
Pipe: 10									
L6		9.0	0.0	8.6	0.0	-16.0	1.049 PL	4.00	PF 0.8
L5		13.0	0.0	7.6	0.0	6.0	120 FTG	T	PE -1.7
							0.086 TL	9.00	PV
Pipe: 11									
L8		9.0	0.0	8.5	0.0	-16.0	1.049 PL	4.00	PF 0.8
L7		13.0	0.0	7.6	0.0	5.9	120 FTG	T	PE -1.7
							0.086 TL	9.00	PV

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 7

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
JOB TITLE: Loading Dock

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q (GPM)	DIA (IN)	LENGTH	PRESS.	
NODES	(FT)	(K)	(PSI)	(GPM)	VEL (FPS)	HW (C)	FL/FT	(FT)	SUM.	
									(PSI)	
Pipe: 12					-15.9	1.049	PL	4.00	PF	0.8
L10	9.0	0.0	8.4	0.0	5.9	120	FTG	T	PE	-1.7
L9	13.0	0.0	7.4	0.0		0.085	TL	9.00	PV	
Pipe: 13					-15.8	1.049	PL	4.00	PF	0.8
L12	9.0	0.0	8.4	0.0	5.9	120	FTG	T	PE	-1.7
L11	13.0	0.0	7.4	0.0		0.084	TL	9.00	PV	
Pipe: 14					-15.8	1.049	PL	4.00	PF	0.8
L14	9.0	0.0	8.3	0.0	5.9	120	FTG	T	PE	-1.7
L13	13.0	0.0	7.4	0.0		0.084	TL	9.00	PV	
Pipe: 15					-16.0	2.067	PL	6.00	PF	0.0
L1	13.0	0.0	7.6	0.0	1.5	120	FTG	----	PE	0.0
L3	13.0	0.0	7.6	0.0		0.003	TL	6.00	PV	
Pipe: 16					-31.9	2.067	PL	6.00	PF	0.1
L3	13.0	0.0	7.6	0.0	3.1	120	FTG	----	PE	0.0
L5	13.0	0.0	7.6	0.0		0.011	TL	6.00	PV	
Pipe: 17					-48.0	2.067	PL	3.00	PF	0.1
L5	13.0	0.0	7.6	0.0	4.6	120	FTG	----	PE	0.0
L49	13.0	0.0	7.7	0.0		0.024	TL	3.00	PV	
Pipe: 18					-15.8	2.067	PL	6.00	PF	0.0
L13	13.0	0.0	7.4	0.0	1.5	120	FTG	----	PE	0.0
L11	13.0	0.0	7.4	0.0		0.003	TL	6.00	PV	
Pipe: 19					-31.6	2.067	PL	6.00	PF	0.1
L11	13.0	0.0	7.4	0.0	3.0	120	FTG	----	PE	0.0
L9	13.0	0.0	7.4	0.0		0.011	TL	6.00	PV	
Pipe: 20					-47.5	2.067	PL	6.00	PF	0.1
L9	13.0	0.0	7.4	0.0	4.5	120	FTG	----	PE	0.0
L7	13.0	0.0	7.6	0.0		0.024	TL	6.00	PV	
Pipe: 21					-63.5	2.067	PL	3.00	PF	0.1
L7	13.0	0.0	7.6	0.0	6.1	120	FTG	----	PE	0.0
L49	13.0	0.0	7.7	0.0		0.041	TL	3.00	PV	
Pipe: 22					-111.5	2.469	PL	57.00	PF	4.1
L49	13.0	0.0	7.7	0.0	7.5	120	FTG	2TL	PE	0.0
L47	13.0	0.0	11.8	0.0		0.048	TL	85.00	PV	

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 8

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
JOB TITLE: Loading Dock

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	FL/FT	(FT)	SUM.	
									(PSI)	
Pipe: 23						-111.5	2.067 PL	11.50	PF	1.3
L47	13.0	0.0	11.8	0.0	10.7	120	FTG	----	PE	0.0
L51	13.0	0.0	13.1	0.0		0.115	TL	11.50	PV	
Pipe: 24						-14.8	1.049 PL	2.50	PF	0.3
H	9.0	5.6	7.0	14.8	5.5	120	FTG	L	PE	0.0
L16	9.0	0.0	7.3	0.0		0.075	TL	4.50	PV	
Pipe: 25						-14.8	1.049 PL	2.50	PF	0.3
I	9.0	5.6	7.0	14.8	5.5	120	FTG	L	PE	0.0
L18	9.0	0.0	7.4	0.0		0.075	TL	4.50	PV	
Pipe: 26						-14.9	1.049 PL	2.50	PF	0.3
J	9.0	5.6	7.1	14.9	5.5	120	FTG	L	PE	0.0
L20	9.0	0.0	7.4	0.0		0.075	TL	4.50	PV	
Pipe: 27						-15.0	1.049 PL	2.50	PF	0.3
K	9.0	5.6	7.2	15.0	5.6	120	FTG	L	PE	0.0
L22	9.0	0.0	7.5	0.0		0.076	TL	4.50	PV	
Pipe: 28						-15.0	1.049 PL	2.50	PF	0.3
L	9.0	5.6	7.2	15.0	5.6	120	FTG	L	PE	0.0
L24	9.0	0.0	7.5	0.0		0.076	TL	4.50	PV	
Pipe: 29						-14.9	1.049 PL	2.50	PF	0.3
M	9.0	5.6	7.1	14.9	5.5	120	FTG	L	PE	0.0
L26	9.0	0.0	7.4	0.0		0.075	TL	4.50	PV	
Pipe: 30						-14.8	1.049 PL	2.50	PF	0.3
N	9.0	5.6	7.0	14.8	5.5	120	FTG	L	PE	0.0
L28	9.0	0.0	7.4	0.0		0.075	TL	4.50	PV	
Pipe: 31						-14.8	1.049 PL	2.50	PF	0.3
O	9.0	5.6	7.0	14.8	5.5	120	FTG	L	PE	0.0
L30	9.0	0.0	7.3	0.0		0.075	TL	4.50	PV	
Pipe: 32						-14.8	1.049 PL	4.00	PF	0.7
L16	9.0	0.0	7.3	0.0	5.5	120	FTG	T	PE	-1.7
L15	13.0	0.0	6.3	0.0		0.075	TL	9.00	PV	
Pipe: 33						-14.8	1.049 PL	4.00	PF	0.7
L18	9.0	0.0	7.4	0.0	5.5	120	FTG	T	PE	-1.7
L17	13.0	0.0	6.3	0.0		0.075	TL	9.00	PV	

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 9

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
JOB TITLE: Loading Dock

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q (GPM)	DIA (IN)	LENGTH	PRESS.
	NODES	(FT)	(K)	(PSI)	(GPM)	VEL (FPS)	HW (C)	(FT)	SUM.
							FL/FT		(PSI)
Pipe: 34						-14.9	1.049 PL	4.00	PF 0.7
L20		9.0	0.0	7.4	0.0	5.5	120 FTG	T	PE -1.7
L19		13.0	0.0	6.4	0.0		0.075 TL	9.00	PV
Pipe: 35						-15.0	1.049 PL	4.00	PF 0.7
L22		9.0	0.0	7.5	0.0	5.6	120 FTG	T	PE -1.7
L21		13.0	0.0	6.5	0.0		0.076 TL	9.00	PV
Pipe: 36						-15.0	1.049 PL	4.00	PF 0.7
L24		9.0	0.0	7.5	0.0	5.6	120 FTG	T	PE -1.7
L23		13.0	0.0	6.5	0.0		0.076 TL	9.00	PV
Pipe: 37						-14.9	1.049 PL	4.00	PF 0.7
L26		9.0	0.0	7.4	0.0	5.5	120 FTG	T	PE -1.7
L25		13.0	0.0	6.4	0.0		0.075 TL	9.00	PV
Pipe: 38						-14.8	1.049 PL	4.00	PF 0.7
L28		9.0	0.0	7.4	0.0	5.5	120 FTG	T	PE -1.7
L27		13.0	0.0	6.3	0.0		0.075 TL	9.00	PV
Pipe: 39						-14.8	1.049 PL	4.00	PF 0.7
L30		9.0	0.0	7.3	0.0	5.5	120 FTG	T	PE -1.7
L29		13.0	0.0	6.3	0.0		0.075 TL	9.00	PV
Pipe: 40						-14.8	2.067 PL	6.00	PF 0.0
L15		13.0	0.0	6.3	0.0	1.4	120 FTG	----	PE 0.0
L17		13.0	0.0	6.3	0.0		0.003 TL	6.00	PV
Pipe: 41						-29.6	2.067 PL	6.00	PF 0.1
L17		13.0	0.0	6.3	0.0	2.8	120 FTG	----	PE 0.0
L19		13.0	0.0	6.4	0.0		0.010 TL	6.00	PV
Pipe: 42						-44.5	2.067 PL	6.00	PF 0.1
L19		13.0	0.0	6.4	0.0	4.3	120 FTG	----	PE 0.0
L21		13.0	0.0	6.5	0.0		0.021 TL	6.00	PV
Pipe: 43						-59.5	2.067 PL	3.00	PF 0.1
L21		13.0	0.0	6.5	0.0	5.7	120 FTG	----	PE 0.0
L50		13.0	0.0	6.6	0.0		0.036 TL	3.00	PV
Pipe: 44						-14.8	2.067 PL	6.00	PF 0.0
L29		13.0	0.0	6.3	0.0	1.4	120 FTG	----	PE 0.0
L27		13.0	0.0	6.3	0.0		0.003 TL	6.00	PV

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 10

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
JOB TITLE: Loading Dock

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q (GPM)	DIA (IN)	LENGTH	PRESS.	
	NODES	(FT)	(K)	(PSI)	(GPM)	VEL (FPS)	HW (C)	(FT)	SUM.	
							FL/FT		(PSI)	
Pipe: 45						-29.6	2.067 PL	6.00	PF	0.1
L27		13.0	0.0	6.3	0.0	2.8	120 FTG	----	PE	0.0
L25		13.0	0.0	6.4	0.0		0.010 TL	6.00	PV	
Pipe: 46						-44.5	2.067 PL	6.00	PF	0.1
L25		13.0	0.0	6.4	0.0	4.3	120 FTG	----	PE	0.0
L23		13.0	0.0	6.5	0.0		0.021 TL	6.00	PV	
Pipe: 47						-59.5	2.067 PL	3.00	PF	0.1
L23		13.0	0.0	6.5	0.0	5.7	120 FTG	----	PE	0.0
L50		13.0	0.0	6.6	0.0		0.036 TL	3.00	PV	
Pipe: 48						-119.1	2.469 PL	88.00	PF	6.6
L50		13.0	0.0	6.6	0.0	8.0	120 FTG	2T2L	PE	0.0
L51		13.0	0.0	13.1	0.0		0.055 TL	120.00	PV	
Pipe: 49						-230.5	4.026 PL	56.60	PF	1.0
L51		13.0	0.0	13.1	0.0	5.8	120 FTG	----	PE	0.0
L48		13.0	0.0	14.1	0.0		0.017 TL	56.60	PV	
Pipe: 50						-16.6	1.049 PL	2.50	PF	0.4
P		9.0	5.6	8.8	16.6	6.2	120 FTG	L	PE	0.0
L32		9.0	0.0	9.2	0.0		0.092 TL	4.50	PV	
Pipe: 51						-16.6	1.049 PL	2.50	PF	0.4
Q		9.0	5.6	8.8	16.6	6.2	120 FTG	L	PE	0.0
L34		9.0	0.0	9.2	0.0		0.092 TL	4.50	PV	
Pipe: 52						-16.7	1.049 PL	2.50	PF	0.4
R		9.0	5.6	8.9	16.7	6.2	120 FTG	L	PE	0.0
L36		9.0	0.0	9.3	0.0		0.093 TL	4.50	PV	
Pipe: 53						-16.8	1.049 PL	2.50	PF	0.4
S		9.0	5.6	9.0	16.8	6.2	120 FTG	L	PE	0.0
L38		9.0	0.0	9.4	0.0		0.094 TL	4.50	PV	
Pipe: 54						-16.8	1.049 PL	2.50	PF	0.4
T		9.0	5.6	9.0	16.8	6.2	120 FTG	L	PE	0.0
L40		9.0	0.0	9.4	0.0		0.094 TL	4.50	PV	
Pipe: 55						-16.7	1.049 PL	2.50	PF	0.4
U		9.0	5.6	8.9	16.7	6.2	120 FTG	L	PE	0.0
L42		9.0	0.0	9.3	0.0		0.093 TL	4.50	PV	

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 11

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
JOB TITLE: Loading Dock

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	FL/FT	(FT)	SUM.
									(PSI)
Pipe: 56					-16.6	1.049 PL		2.50	PF 0.4
V	9.0	5.6	8.8	16.6	6.2	120 FTG		L	PE 0.0
L44	9.0	0.0	9.2	0.0		0.092 TL		4.50	PV
Pipe: 57					-16.6	1.049 PL		2.50	PF 0.4
W	9.0	5.6	8.8	16.6	6.2	120 FTG		L	PE 0.0
L46	9.0	0.0	9.2	0.0		0.092 TL		4.50	PV
Pipe: 58					-16.6	1.049 PL		4.00	PF 0.8
L46	9.0	0.0	9.2	0.0	6.2	120 FTG		T	PE -1.7
L45	13.0	0.0	8.3	0.0		0.092 TL		9.00	PV
Pipe: 59					-16.6	1.049 PL		4.00	PF 0.8
L44	9.0	0.0	9.2	0.0	6.2	120 FTG		T	PE -1.7
L43	13.0	0.0	8.3	0.0		0.092 TL		9.00	PV
Pipe: 60					-16.7	1.049 PL		4.00	PF 0.8
L42	9.0	0.0	9.3	0.0	6.2	120 FTG		T	PE -1.7
L41	13.0	0.0	8.4	0.0		0.093 TL		9.00	PV
Pipe: 61					-16.8	1.049 PL		4.00	PF 0.8
L40	9.0	0.0	9.4	0.0	6.2	120 FTG		T	PE -1.7
L39	13.0	0.0	8.5	0.0		0.094 TL		9.00	PV
Pipe: 62					-16.6	1.049 PL		4.00	PF 0.8
L32	9.0	0.0	9.2	0.0	6.2	120 FTG		T	PE -1.7
L31	13.0	0.0	8.3	0.0		0.092 TL		9.00	PV
Pipe: 63					-16.6	1.049 PL		4.00	PF 0.8
L34	9.0	0.0	9.2	0.0	6.2	120 FTG		T	PE -1.7
L33	13.0	0.0	8.3	0.0		0.092 TL		9.00	PV
Pipe: 64					-16.7	1.049 PL		4.00	PF 0.8
L36	9.0	0.0	9.3	0.0	6.2	120 FTG		T	PE -1.7
L35	13.0	0.0	8.4	0.0		0.093 TL		9.00	PV
Pipe: 65					-16.8	1.049 PL		4.00	PF 0.8
L38	9.0	0.0	9.4	0.0	6.2	120 FTG		T	PE -1.7
L37	13.0	0.0	8.5	0.0		0.094 TL		9.00	PV
Pipe: 66					-16.6	2.067 PL		6.00	PF 0.0
L31	13.0	0.0	8.3	0.0	1.6	120 FTG		----	PE 0.0
L33	13.0	0.0	8.3	0.0		0.003 TL		6.00	PV

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 12

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF

JOB TITLE: Loading Dock

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q (GPM)	VEL (FPS)	DIA (IN)	LENGTH	PRESS.	SUM.
	NODES	(FT)	(K)	(PSI)	(GPM)			HW (C)	(FT)		(PSI)
	Pipe: 67					-33.2		2.067 PL	6.00	PF	0.1
L33		13.0	0.0	8.3	0.0	3.2		120 FTG	----	PE	0.0
L35		13.0	0.0	8.4	0.0			0.012 TL	6.00	PV	
	Pipe: 68					-49.8		2.067 PL	6.00	PF	0.2
L35		13.0	0.0	8.4	0.0	4.8		120 FTG	----	PE	0.0
L37		13.0	0.0	8.5	0.0			0.026 TL	6.00	PV	
	Pipe: 69					-66.6		2.067 PL	3.00	PF	0.1
L37		13.0	0.0	8.5	0.0	6.4		120 FTG	----	PE	0.0
L52		13.0	0.0	8.7	0.0			0.044 TL	3.00	PV	
	Pipe: 70					-16.6		2.067 PL	6.00	PF	0.0
L45		13.0	0.0	8.3	0.0	1.6		120 FTG	----	PE	0.0
L43		13.0	0.0	8.3	0.0			0.003 TL	6.00	PV	
	Pipe: 71					-33.2		2.067 PL	6.00	PF	0.1
L43		13.0	0.0	8.3	0.0	3.2		120 FTG	----	PE	0.0
L41		13.0	0.0	8.4	0.0			0.012 TL	6.00	PV	
	Pipe: 72					-49.8		2.067 PL	6.00	PF	0.2
L41		13.0	0.0	8.4	0.0	4.8		120 FTG	----	PE	0.0
L39		13.0	0.0	8.5	0.0			0.026 TL	6.00	PV	
	Pipe: 73					-66.6		2.067 PL	3.00	PF	0.1
L39		13.0	0.0	8.5	0.0	6.4		120 FTG	----	PE	0.0
L52		13.0	0.0	8.7	0.0			0.044 TL	3.00	PV	
	Pipe: 74					-133.3		2.469 PL	57.00	PF	5.4
L52		13.0	0.0	8.7	0.0	8.9		120 FTG	2T	PE	0.0
L48		13.0	0.0	14.1	0.0			0.067 TL	81.00	PV	
	Pipe: 75					-363.8		4.026 PL	80.25	PF	3.7
L48		13.0	0.0	14.1	0.0	9.2		120 FTG	2L	PE	0.0
12		13.0	0.0	17.8	0.0			0.040 TL	92.25	PV	
	Pipe: 76					-363.8		4.026 PL	16.00	PF	0.9
12		13.0	0.0	17.8	0.0	9.2		120 FTG	L	PE	6.9
13		-3.0	0.0	25.6	0.0			0.040 TL	22.00	PV	
	Pipe: 77					-363.8		4.026 PL	119.50	PF	5.9
13		-3.0	0.0	25.6	0.0	9.2		120 FTG	E3L	PE	0.0
14		-3.0	0.0	31.5	0.0			0.040 TL	147.50	PV	

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 13

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
 JOB TITLE: Loading Dock

PIPE TAG					Q (GPM)	DIA (IN)	LENGTH	PRESS.	
END	ELEV.	NOZ.	PT	DISC.	VEL (FPS)	HW (C)	(FT)	SUM.	
NODES	(FT)	(K)	(PSI)	(GPM)		FL/FT		(PSI)	
Pipe: 78					-363.8	4.026 PL	5.50	PF	0.5
14	-3.0	0.0	31.5	0.0	9.2	120 FTG	L	PE	-2.4
15	2.5	0.0	29.5	0.0		0.040 TL	11.50	PV	
Pipe: 79									
						FIXED PRESSURE LOSS DEVICE			
16	2.5	0.0	34.5	0.0		5.0 psi,	363.8 gpm		
15	2.5	0.0	29.5	0.0					
Pipe: 80					-363.8	4.026 PL	5.50	PF	0.4
16	2.5	0.0	34.5	0.0	9.2	150 FTG	L	PE	2.4
17	-3.0	0.0	37.3	0.0		0.026 TL	14.57	PV	
Pipe: 81					-363.8	4.026 PL	57.00	PF	3.5
17	-3.0	0.0	37.3	0.0	9.2	120 FTG	ETG	PE	0.0
18	-3.0	0.0	40.9	0.0		0.040 TL	89.00	PV	
Pipe: 82					-363.8	7.981 PL	220.00	PF	0.2
18	-3.0	0.0	40.9	0.0	2.3	150 FTG	----	PE	0.0
SRC	-3.0	SRCE	41.1	(N/A)		0.001 TL	220.00	PV	

NOTES (HASS):

- (1) Calculations were performed by the HASS 2021 D computer program in accordance with NFPA13 (2020) under license no. 64836407 granted by
 HRS Systems, Inc.
 208 Southside Square
 Petersburg, TN 37144
 (931) 659-9760
- (2) The system has been calculated to provide an average imbalance at each node of 0.001 gpm and a maximum imbalance at any node of 0.065 gpm.
- (3) Total pressure at each node is used in balancing the system. Maximum water velocity is 10.7 ft/sec at pipe 23.
- (4) Items listed in bold print on the cover sheet
 are automatically transferred from the calculation report.
- (5) Available pressure at source node SRC under full flow conditions is 77.42 psi with a flow of 799.17 gpm.

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF
 JOB TITLE: Loading Dock

(6) PIPE FITTINGS TABLE

HASS Pipe Table Name: standard

PAGE: A MATERIAL: S40 HWC: 120

Diameter (in)	Equivalent Fitting Lengths in Feet								
	E Ell	T Tee	L LngEll	C ChkVlv	B BfyVlv	G GatVlv	A AlmChk	D DPVlv	N NTee

	F								
	F45Ell								
1.049	2.00	5.00	2.00	5.00	6.00	1.00	10.00	2.00	5.00
	1.00								
2.067	5.00	10.00	3.00	11.00	6.00	1.00	10.00	10.00	10.00
	2.50								
2.469	6.00	12.00	4.00	14.00	7.00	1.00	10.00	10.00	12.00
	3.00								
4.026	10.00	20.00	6.00	22.00	12.00	2.00	20.00	20.00	20.00
	5.00								
7.981	18.00	35.00	13.00	45.00	12.00	4.00	31.00	31.00	35.00
	9.00								

SPRINKLER SYSTEM HYDRAULIC ANALYSIS

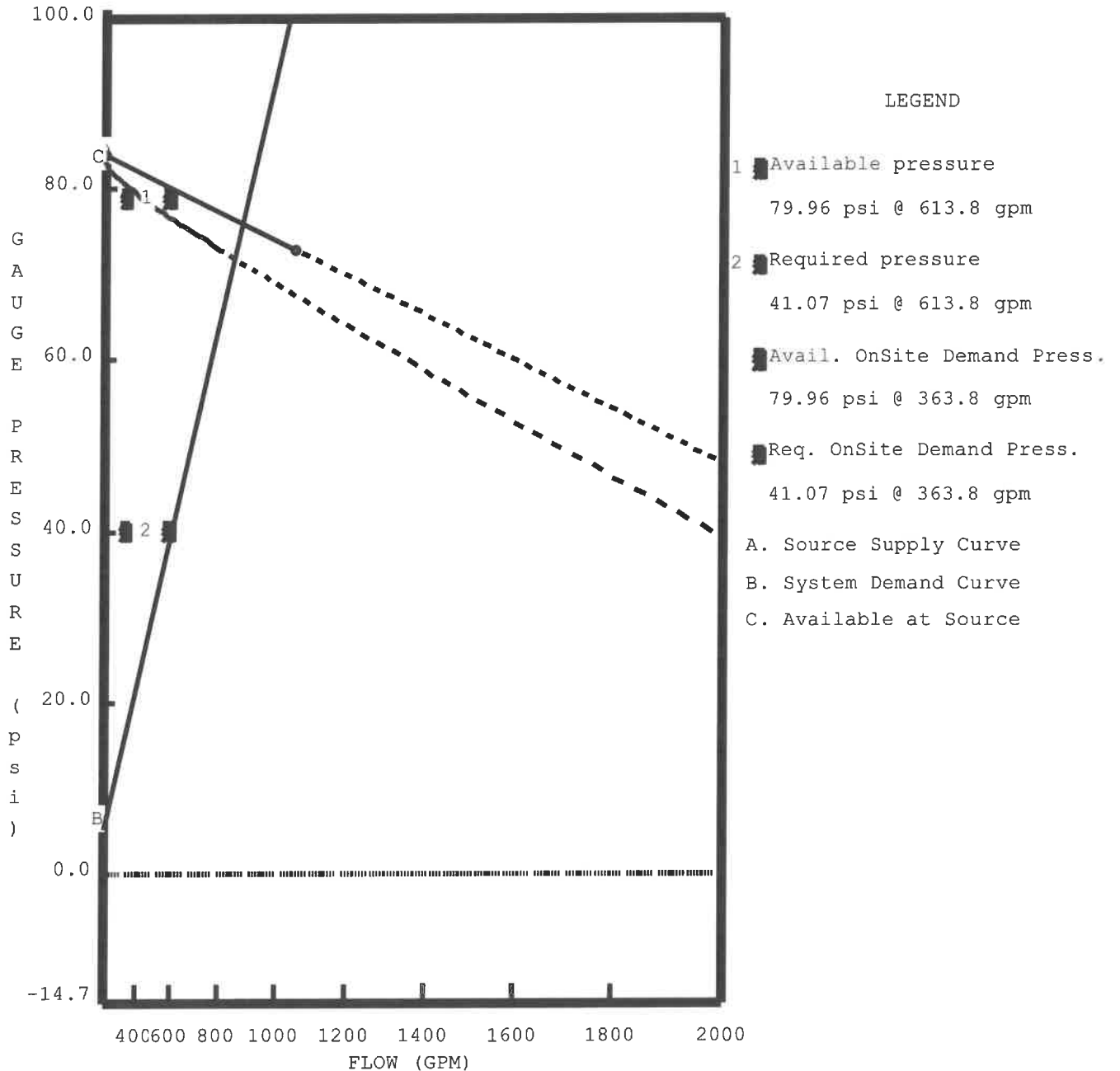
Page 15

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF

JOB TITLE: Loading Dock

WATER SUPPLY ANALYSIS

Static: 84.00 psi Resid: 73.00 psi Flow: 1055.0 gpm



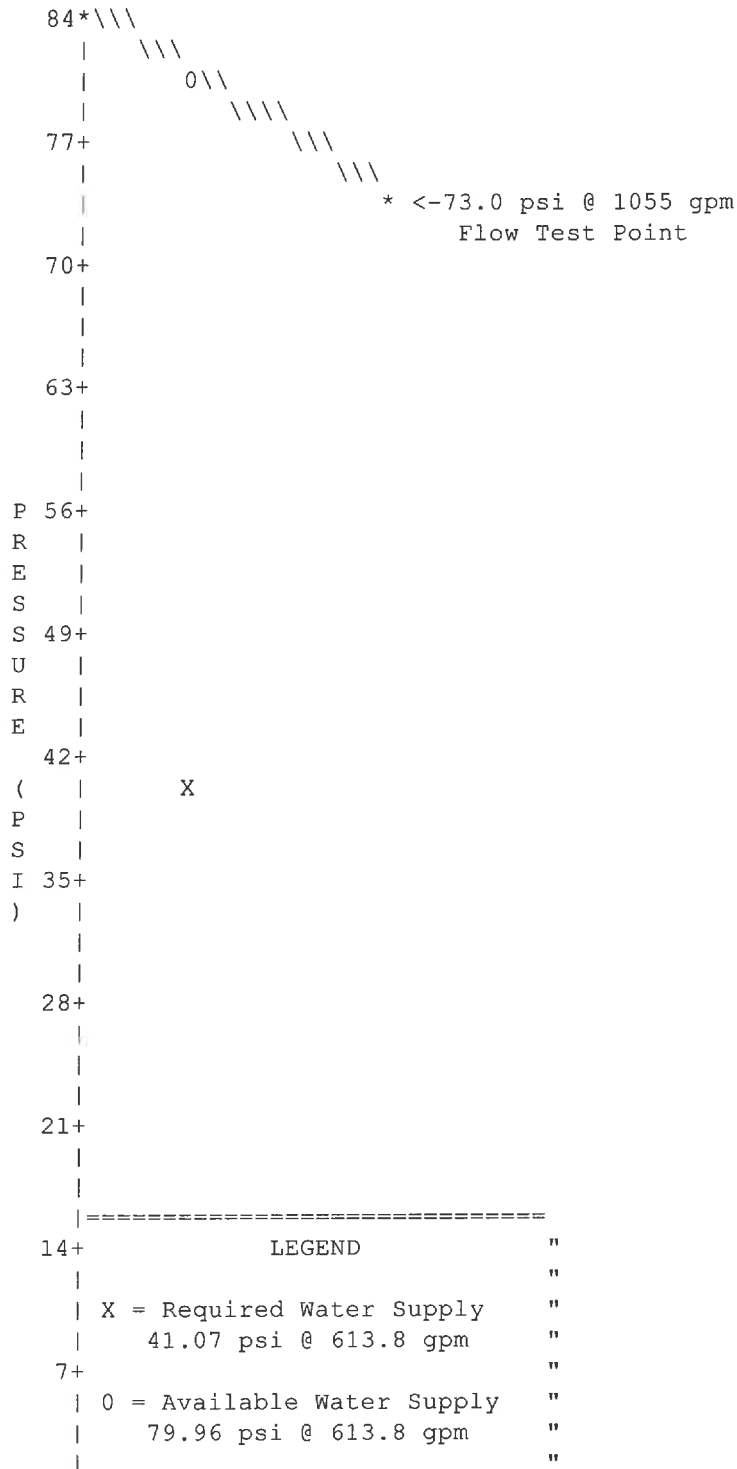
Note: (1) Dashed Lines indicate extrapolated values from Test Results

(2) On Site pressures are based on hose stream deduction at the source

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF

JOB TITLE: Loading Dock

WATER SUPPLY CURVE



SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 17

DATE: 1/26/2022 NCILLARY ADD & RENO\ADMIN\FIRE PROTECTION\LOADING DOCK.SDF

JOB TITLE: Loading Dock

0+--+---+-----+-----+-----+-----+-----+-----+
 400 600 800 1000 1200 1400 1600 1800 2000
 FLOW (GPM)

15-5



SYMBOL	DESCRIPTION	TEMPERATURE	K-FACTOR
●	FULLY CONCEALED	155	5.0
○	RECESSED	155	5.0
⊙	INSTITUTIONAL	155	5.0
○	UPRIGHT	145	5.0
△	DRY SIDEWALK	155	5.0

1. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE
2. FULLY CONCEALED HEADS TO BE WHITE UNLESS NOTED OTHERWISE
3. FINAL LOCATION OF ALL SPRINKLER HEADS TO BE DETERMINED BY FIELD GELING CUTOUT
4. ALL SPRINKLER HEADS RAINCOATS SHALL BE AN MINIMUM OF 1" DIAMETER

HYDRAULIC NODE LEGEND:  HYDRAULIC REFERENCE NODE. REFER TO HYDRAULIC CALCULATIONS FOR DETAILS.

AREA PIPING LEGEND:  NO PIPING OR EQUIPMENT ALLOWED ABOVE THIS AREA.

GENERAL FIRE WATCH NOTE

NEW WORK LEGEND

— EXISTING TO REMAIN
— NEW CONSTRUCTION

FP201C

DATE 12/06/2021

LINE IS 5 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 36"X48"

Gresham
Smith

CrashSmith.com

[illegible]

Kimley»Horn
2019 Connecticut Road Builders' Association

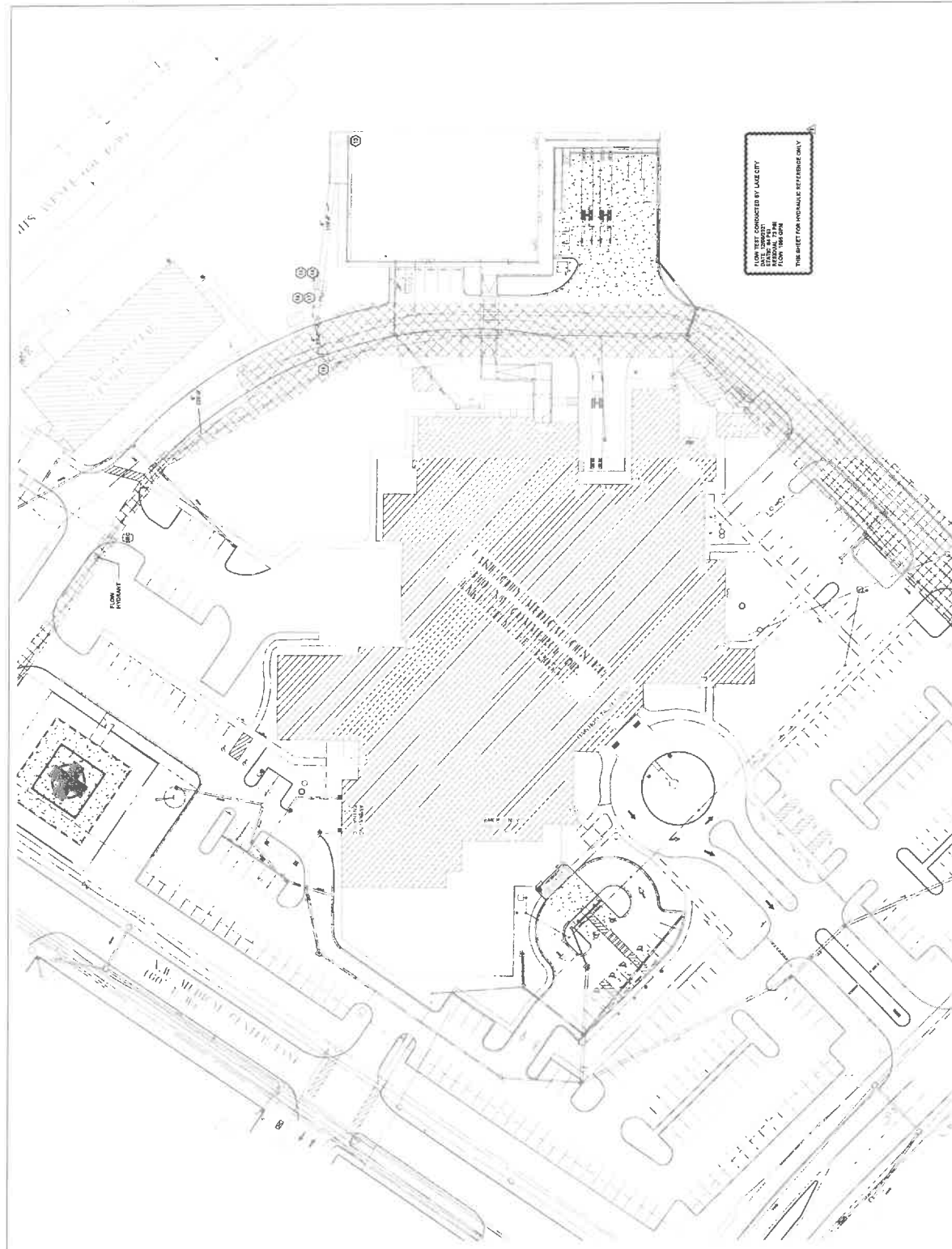
HCA+ Healthcare

Digitally signed
by Shawn FL
Date: 2022.01.28
14:32:59-06'00'

ANCILLARY BUILDING

LAKE CITY MEDICAL CENTER
340 NW Commerce Dr.
Lake City, FL 32055
ICA Patient No. 3759000011

LAKE CITY, FL 32055
HCA Project No. 3753400011



1 FIRE PROTECTION - SITE PLAN
1"=300'

FLOW TEST CONDUCTED BY LAKE CITY
FIRE DEPARTMENT
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY

HYDRAULIC NOSE LEAKS
HYDRAULIC REFERENCE MAPS REFER TO
HYDRAULIC CALCULATIONS FOR DETAILS



Gresham Smith
Smith.com

ARCHITECT: GRESHAM SMITH, INC.
1000 LAKE CITY MEDICAL CENTER
LAKE CITY, FL 33603
P: 813.555.1000
F: 813.555.1001
WWW.GRESHAMSMITH.COM
PROJECT: LAKE CITY MEDICAL CENTER
LAKE CITY MEDICAL CENTER - SITE ANCIARY BUILDING PLAN
LAKE CITY, FL 33603
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY



ICT
LAKE CITY MEDICAL CENTER
LAKE CITY, FL 33603
P: 813.555.1000
F: 813.555.1001
WWW.GRESHAMSMITH.COM
PROJECT: LAKE CITY MEDICAL CENTER
LAKE CITY MEDICAL CENTER - SITE ANCIARY BUILDING PLAN
LAKE CITY, FL 33603
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY



SDL
LAKE CITY MEDICAL CENTER
LAKE CITY, FL 33603
P: 813.555.1000
F: 813.555.1001
WWW.GRESHAMSMITH.COM
PROJECT: LAKE CITY MEDICAL CENTER
LAKE CITY MEDICAL CENTER - SITE ANCIARY BUILDING PLAN
LAKE CITY, FL 33603
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY



Kimley-Horn
LAKE CITY MEDICAL CENTER
LAKE CITY, FL 33603
P: 813.555.1000
F: 813.555.1001
WWW.GRESHAMSMITH.COM
PROJECT: LAKE CITY MEDICAL CENTER
LAKE CITY MEDICAL CENTER - SITE ANCIARY BUILDING PLAN
LAKE CITY, FL 33603
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY



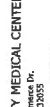
HCA Healthcare
LAKE CITY MEDICAL CENTER
LAKE CITY, FL 33603
P: 813.555.1000
F: 813.555.1001
WWW.GRESHAMSMITH.COM
PROJECT: LAKE CITY MEDICAL CENTER
LAKE CITY MEDICAL CENTER - SITE ANCIARY BUILDING PLAN
LAKE CITY, FL 33603
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY



Digitally signed
By: Shawn FL
Date: 2022.01.28
14:33:28-0600



ANCILLARY BUILDING
LAKE CITY MEDICAL CENTER
LAKE CITY, FL 33603
P: 813.555.1000
F: 813.555.1001
WWW.GRESHAMSMITH.COM
PROJECT: LAKE CITY MEDICAL CENTER
LAKE CITY MEDICAL CENTER - SITE ANCIARY BUILDING PLAN
LAKE CITY, FL 33603
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY



LAKE CITY MEDICAL CENTER
LAKE CITY, FL 33603
P: 813.555.1000
F: 813.555.1001
WWW.GRESHAMSMITH.COM
PROJECT: LAKE CITY MEDICAL CENTER
LAKE CITY MEDICAL CENTER - SITE ANCIARY BUILDING PLAN
LAKE CITY, FL 33603
DATE: 08/11/2021
FLOW: 1500 GPM
THIS SHEET FOR HYDRAULIC REFERENCE ONLY

No.	Date	Description
1	11/17/2021	Amendment 1-1

FIRE PROTECTION -
SITE ANCIARY
BUILDING PLAN

FP202C

DATE: 12/02/2021
PROJECT: 15037.00

Drawn By: GSH
Checked By: GSH
Approved By: SWS



25

30

31

HARPER
LAKE

GWEN
LAKE

36

Long St

Gwen Lake Ave

Labordia Ln

Indian Shore Dr

Wagon Dr

Highland Loop

Highland Ln

Green Ln

Eadie St

Shady Ln

Village Ln

Palm Dr

90

90

y