SPRINKLER SYSTEMS HAZARD CLASSIFICATIONS

# SPRINKLER NOTE SPRINKLER PLANS AS SHOWN ARE FOR BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS TO OBTAIN A CURRENT WATER FLOW TEST AND PROVIDE HYDRAULIC CALCULATIONS FOR SYSTEM PIPE SIZING IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13. THE SPRINKLER CONTRACTOR IS TO SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATION, PIPING LAYOUT AND SIZING. SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A NICET LEVEL IV DESIGNER OR A PROFESSIONAL ENGINEER.

.. 115 PSI

.. 110 PSI

FIRE PUMP TEST DATA

TEST DATE: OCTOBER 2021

FLOW RATE - 0 GPM:

FLOW RATE - 750 GPM:

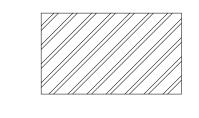
FLOW RATE - 1,125 GPM:

- DISCHARGE PRESSURE ...

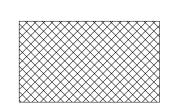
- DISCHARGE PRESSURE ..

- DISCHARGE PRESSURE ..

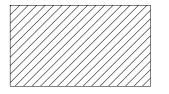
	DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS.
	OCCUPANCY CLASSIFICATIONLIGHT HAZARD
///////	DESIGN DENSITY0.10 GPM/S.F.
	REMOTE HYDRAULIC AREA1,500 S.F.
//////	MAXIMUM SPRINKLER COVERAGE225 S.F.
	OUTSIDE HOSE STREAM100 GPM
	DURATION OF SUPPLY30 MINUTES



DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS. OCCUPANCY CLASSIFICATION.....ORDINARY HAZARD, GROUP 1 REMOTE HYDRAULIC AREA......1,500 S.F. MAXIMUM SPRINKLER COVERAGE.....130 S.F. OUTSIDE HOSE STREAM......250 GPM DURATION OF SUPPLY......60-90 MINUTES



DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS. OCCUPANCY CLASSIFICATION.....ORDINARY HAZARD, GROUP 2 .....0.20 GPM/S.F. DESIGN DENSITY...... REMOTE HYDRAULIC AREA......1,500 S.F. MAXIMUM SPRINKLER COVERAGE.....130 S.F. OUTSIDE HOSE STREAM......250 GPM DURATION OF SUPPLY......60-90 MINUTES



DENOTES AREA NOT IN PROJECT SCOPE

## FIRE PROTECTION **GENERAL NOTES**

#### **DESIGN CRITERIA:**

REFER TO THE FOLLOWING PUBLICATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM ON THIS PROJECT:

1. NFPA 13, 2019 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.

### **GENERAL NOTES:**

A. DESIGN THE SPRINKLER SYSTEM THROUGHOUT PROPOSED SCOPE OF WORK IN ACCORDANCE WITH NFPA 13.

- B. ALL PIPING, VALVE, SPRINKLER HEADS, HANGERS, ETC. SHALL BE UL LISTED AND FM APPROVED.
- C. DESIGN SHALL BE PERFORMED BY NICET LEVEL IV DESIGNER OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS AND SHALL BE SIGNED AND SEALED AS APPLICABLE. PROVIDE FIRE PROTECTION SYSTEM DESIGN AND SHOP DRAWINGS, MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- D. HYDRAULICALLY CALCULATE THE SYSTEM SIZING IN ACCORDANCE WITH NFPA 13.
- E. DESIGN THE SYSTEM USING SPRINKLER HEADS THAT ARE FM APPROVED, QUICK RESPONSE TYPE, SEMI-RECESSED HEADS IN ALL AREAS, EXCEPT WHERE SPECIFICALLY PROHIBITED IN UNFINISHED AREAS WITHOUT CEILINGS. USE QUICK RESPONSE ROUGH BRASS UPRIGHT HEADS WITH FRANGIBLE GLASS ELEMENT. FLEXIBLE SPRINKLER HEADS ARE PROHIBITED.
- F. ALL HEADS SHALL HAVE A K FACTOR OF 5.6 5.8. TEMPERATURE RATINGS OF ALL SPRINKLER HEADS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13.
- HATCHING ON THE FLOOR PLANS.
- H. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM.

G. DESIGN THE SPRINKLER SYSTEM FOR THE ENTIRE WORK AREA TO BE CLASSIFIED AS LIGHT HAZARD OCCUPANCY EXCEPT AS NOTED BY

- I. HYDRAULIC CALCULATIONS SHALL TAKE INTO ACCOUNT ALL FITTINGS, OFFSETS, HARDWARE, DEVICES, CHARACTERISTICS AND TRIM DETERMINED NECESSARY FOR A COMPLETE SPRINKLER INSTALLATION.
- J. CENTER SPRINKLER HEADS IN CEILING TILES IN AREAS WITH LAY-IN TILES AND VISUALLY ALIGN IN AREAS WITH HARD CEILINGS.
- K. ELEVATIONS OF SPRINKLER PIPING AND HEADS MUST BE DETERMINED BY PROPOSED CEILING HEIGHTS. REFER TO ARCHITECTURAL
- DRAWINGS FOR REFLECTED CEILING PLANS.
- L. PROVIDE SEISMIC BRACING FOR ALL PIPING IN ACCORDANCE WITH NFPA 13. PROVIDE SHOP DRAWINGS OF ALL SEISMIC CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS.
- M. SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING SHALL BE LOCATED AND SUPPORTED IN ACCORDANCE WITH NFPA 13.
- N. TEST SPRINKLER SYSTEM, CONTROLS, PIPING, AND MONITORING IN ACCORDANCE WITH NFPA 25. SUBMIT ABOVEGROUND TEST CERTIFICATE
- O. CAGES SHALL BE ADDED TO THE IT ROOMS WITH HIGHER TEMPERATURE HEADS.
- P. DO NOT INTERRUPT SPRINKLER SERVICE TO OCCUPIED SPACES. NOTIFY COR NO FEWER THAN FIVE DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF SPRINKLER SERVICE. DO NOT PROCEED WITH INTERRUPTION OF SERVICE WITHOUT WRITTEN PERMISSION.
- Q. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST METHODS AND PRACTICES. ANY MATERIAL WHICH DOES NOT PRESENT AN ORDERLY AND REASONABLY NEAT AND WORKMANLIKE APPEARANCE, SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY THE VETERANS ADMINISTRATION. THE REMOVAL AND REPLACEMENT OF THIS WORK SHALL BE DONE WHEN DIRECTED IN WRITING BY THE VETERANS ADMINISTRATION AT THE CONTRACTOR'S
- R. INCLUDE TEMPORARY COVERAGE AND SUPPLIES SO THAT NO AREA IS LEFT IMPAIRED DURING PERIODS WHERE NO SPRINKLER WORK IS BEING PERFORMED AND ALL OCCUPIED AREAS HAVE SPRINKLER COVERAGE AT ALL TIMES. AT NO TIME MAY SPRINKLER SYSTEM AND FIRE ALARM SYSTEMS BE IMPAIRED AT THE SAME TIME. INSTALL NEW UPRIGHT HEADS DURING CONSTRUCTION WHERE CEILINGS ARE TEMPORARILY REMOVED.
- S. FLEX HEADS ARE NOT ALLOWED.
- T. THE HYDRAULICALLY MOST DEMANDING AREA CAN NOT BE REDUCED BY USING QUICK RESPONSE PER THE VA FIRE PROTECTION DESIGN
- U. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND LICENSES FOR THE COMPLETE INSTALLATION OF THEIR WORK.

#### FIRE PROTECTION LEGEND **PIPING SYMBOLS** MISC. SYMBOLS **ABBREVIATIONS NOTES** FIRE PROTECTION SUPPLY PIPING ROOM NUMBER 1. SEE SHEET FX501 FOR DETAILS. **EXISTING** (EX), EXIST. — — — FIRE PROTECTION DEMOLITION PIPING 2. SOME SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY NOT APPLY. FLOW SWITCH POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK SIAMESE FIRE DEPARTMENT CONNECTION POINT BETWEEN EXISTING WORK TO REMAIN AND EXISTING TAMPER SWITCH WORK TO BE REMOVED WATERFLOW DETECTOR FIRE DEPARTMENT VALVE HEAT DETECTOR FIRE DEPARTMENT CONNECTION SMOKE DETECTOR BACKFLOW PREVENTER FIRE VALVE CABINET WET PIPE FIRE PROTECTION VALVE Y-TYPE STRAINER FIRE HOSE CABINET Y-TYPE STRAINER WITH HOSE DRAIN VALVE DRY PIPE FIRE PROTECTION VALVE MINIMUM — D — FIRE PROTECTION DRAIN PRE-ACTION FIRE PROTECTION VALVE TYPICAL UNDER GROUND FIRE DEPT HOSE VALVE W/CAP PRESSURE GAGE GALLONS PER MINUTE WATER MOTOR GONG ELBOW, 90° CAPACITY SPARE SPRINKLER CABINET ELBOW, 90° TURNED UP FACP PRESSURE SWITCH ELBOW, 90° TURNED DOWN FIRE ALARM CONTROL PANEL ELBOW, 45° REMOVE EXISTING FIRE ALARM ANNUNICIATOR PANEL FIRE ALARM GRAPHIC ANNUNICIATOR PANEL TEE, OUTLET TURNED UP TEE, OUTLET TURNED DOWN CONCENTRIC REDUCER ECCENTRIC REDUCER (STRAIGHT INVERT) FLEXIBLE PIPE CONNECTION ELECTRICALLY OPERATED VALVE BUTTERFLY VALVE ——— A ——— FIRE PROTECTION COMPRESSED AIR SUPPLY

Revision Number | Revisions:

VA FORM 08 - 6231

FIRE PROTECTION ZONE SCHEDULE

DESCRIPTION / LOCATION

FIRST FLOOR LOGISTICS/SPS AREA

ITEMS

NOTES:

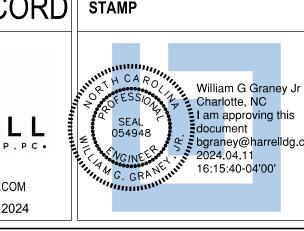
APPROXIMATE

AREA SERVED (SQ.FT.)

7,236

CONSULTANTS CONSULTING STRUCTURAL ENGINEERS BRITT, PETERS \_\_\_\_ A N D \_\_\_\_ ASSOCIATES consulting engineers

ARCHITECT/ENGINEER OF RECORD | STAMP HARRELL DESIGN GROUP PC 10720 SIKES PLACE, SUITE 100 HARREL • DESIGN GROUP, PC • POC: LEE HARRELL PE, LEED AP, QCxP WWW.HARRELLDG.COM COPYRIGHT © 2024



DRAWING TITLE GENERAL NOTES, SYMBOLS & LEGENDS

CONSTRUCTION DOCUMENTS SUBMISSION

FULLY SPRINKLERED

PROJECT TITLE RENOVATE SPACE FOR LOGISTICS LOCATION

FAYETTEVILLE VA MEDICAL CENTER

CHECKED

WGG

PROJECT NUMBER 564-24-104 **BUILDING NUMBER** DRAWING NUMBER FX001-A

**Engineering** Service VETERANS HEALTH CARE SYSTEM OF THE OZARKS VA U.S. Department of Veterans Affairs

HDG PROJECT: 19022

**CHARLOTTE, NC 28277** 

704-814-1346

**APPROVED** 

11 APRIL 2024

**ISSUE DATE**