

NTS

ITEM	QUANTITY	DESCRIPTION
1	1	1/2" C. P. VALVE, 150# BRASS, 150#
2	2	1/2" C. P. VALVE, 150# BRASS, 150#
3	1	1/2" C. P. VALVE, 150# BRASS, 150#
4	2	1/2" C. P. VALVE, 150# BRASS, 150#
5	2	1/2" C. P. VALVE, 150# BRASS, 150#
6	2	1/2" C. P. VALVE, 150# BRASS, 150#
7	1	1/2" C. P. VALVE, 150# BRASS, 150#
8	1	1/2" C. P. VALVE, 150# BRASS, 150#
9	1	1/2" C. P. VALVE, 150# BRASS, 150#

NOTE: - THIS ASSEMBLY AND SETTING IS A TRADE SPECIALTY TO THE TRADE LICENSED MECHANICAL CONTRACTOR OR EQUIVALENT.

REDUCED PRESSURE BACKFLOW PREVENTER  
SINGLE SERVICE, 3" OR 4" (W-S)  
NOT IN FIRE SPRINKLER INSTALLER'S SCOPE OF WORK

**61G15-32.004 DESIGN OF WATER BASED FIRE PROTECTION SYSTEMS.**

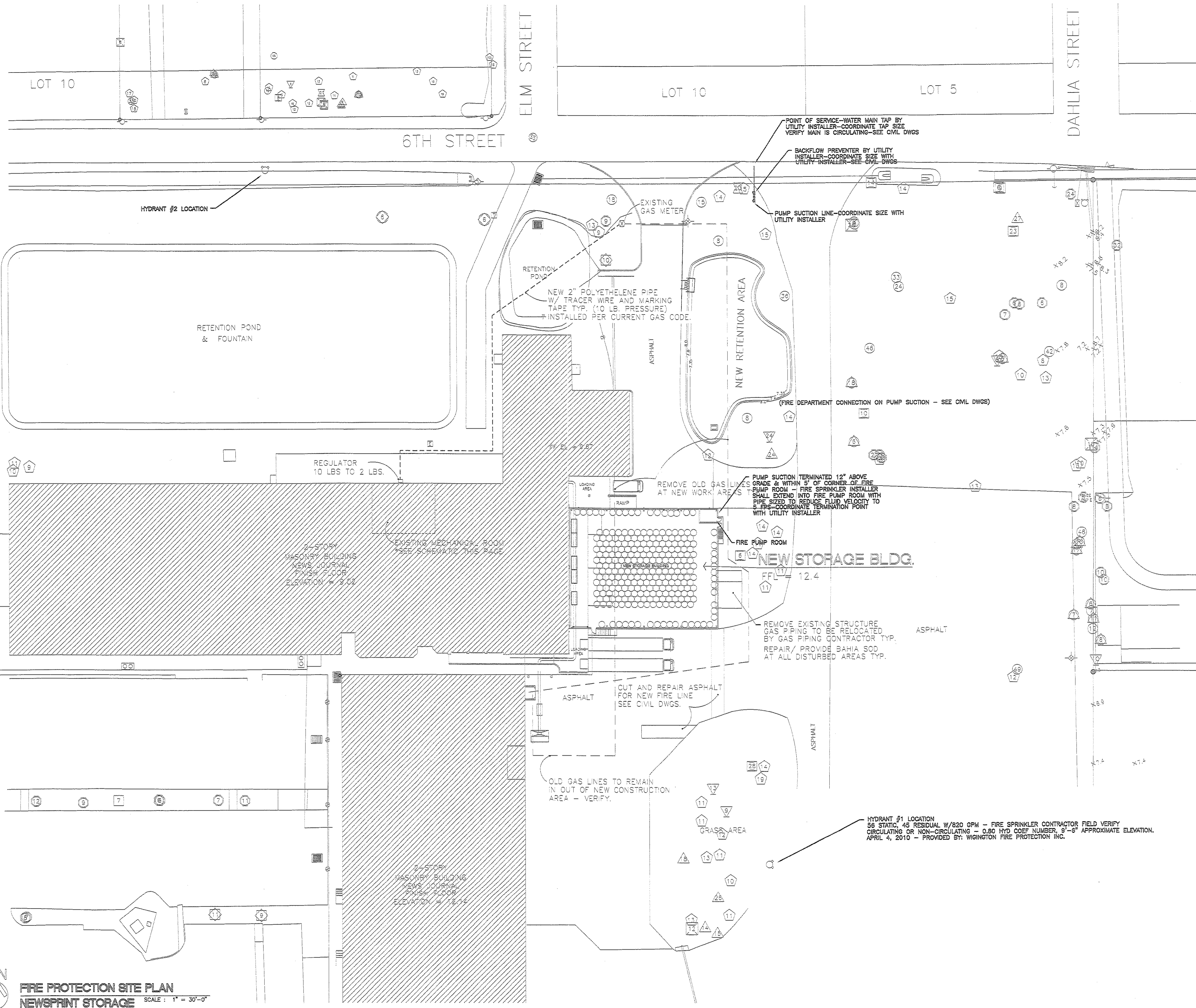
- Water Based Fire Protection Systems include, but not limited to, automatic sprinkler systems of wet, dry, pre-action, deluge, and design wet, and design dry, systems, pumping systems, standpipes, fire water mains and dedicated fire protection water sources.
- To ensure minimum design quality in Fire Protection System Engineering Documents, said documents shall include as a minimum, the following information when applicable:
  - X Item:
  - X Characteristics of water supply to be used, such as main size and location, whether it is dead-end or circulating and if dead-end, the distance to the nearest circulating main, as well as its minimum duration and reliability for the most hydraulically demanding design area.
  - X When private or public water supplies are used, the flow test data, including date and time of test, who conducted test or supplied information, test elevation, static gauge pressure at no flow, flow rate with residual gauge pressure, hydrant butt coefficient, and location of test in relation to the hydraulic point of service.
  - X The point of service for the fire protection water supply as defined by 633.021(17) F.S.
  - X Backflow prevention and metering specifications and details to meet local water purveyor requirements including maximum allowable pressure drop.
  - X Quality and performance specifications of all yard and interior fire protection components.
  - X Warning and alarm requirements to minimize potential for impalement and unrecognized flow of water.
  - X Applicable NFPA standard to be applied, or in the case where no such standard exists, the engineering study, judgments, and/or performance based analysis and conclusions.
  - X Design approach, which includes system type, densities, device temperature rating, and loading for each separate hazard occupancy.
  - X Classification of hazard occupancy for each room or area.
  - X Microbial Induced Corrosion (MIC). The Engineer of Record shall make reasonable efforts to identify water supplies that could lead to Microbial Induced Corrosion (MIC). Such efforts may consist of discussions with the local water purveyor and/or fire official, familiarity with conditions in the local area, or laboratory testing of water supplies. When conditions are found that may result in MIC contamination of the fire protection piping, the engineer shall design corrective measures.
- Contractor submittals which deviate from the above minimum design parameters shall be considered material deviations and require supplemental engineering approval and documentation.
- In the event the Engineer of Record provides more information and direction than is established above, he or she shall be held responsible for the technical accuracy of the work in accordance with applicable codes, standards, and sound engineering principles.

**61G15-32 COMPLIANCE NOTES:**

- INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13 EDITION, STANDARD FIRE CODES, STATE AND LOCAL AUTHORITIES.
- DUE TO PIPE SIZES REQUIRED NO ADDITIONAL STRUCTURAL SUPPORT SHOULD BE REQUIRED.
- ALL PIPES SHALL BE SUPPLIED AS SHOWN ON THE DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13 OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC LISTING FOR THE SPRINKLER HEADS BEING USED.
- THE FLOOR CONTROL VALVE ASSEMBLY LOCATED ON THE STANDPIPES SHALL BE USED AS A MEANS OF SYSTEM CONTROL AND EQUIPPED WITH TAMPER SWITCHES AND FLOW SWITCHES WITH A LOCAL ALARM AND REMOTE MONITORING STATION. THE EXISTING WATER SYSTEM HAS NO REPORTED CASES OF MICROBIAL INDUCED CORROSION.
- THE BACKFLOW PREVENTER ASSEMBLY AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE LOCAL WATER PURVEYOR AND HAVE A MAXIMUM LOSS OF 7 PSI.
- INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE LISTED IN ACCORDANCE WITH NFPA 13.
- STANDPIPES SHALL BE IN ACCORDANCE WITH NFPA 14 AND FLORIDA BUILDING CODE.
- UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH NFPA 24.
- PROTECT ROLL PAPER IN ACCORDANCE WITH NFPA 13 CHAPTER 19.

**61G15-32 NOTE:**

The Fire Suppression Systems shown on these plans are schematic and are intended to represent the design intent of the Engineer of Record, within the guidelines of 61G15-32. When the Engineer's Drawings show the extent of detail normally found on Working Drawings, it is due to the Authority Having Jurisdiction's mandate. Refer to the Engineer's specifications for additional criteria. It is the responsibility of the Fire suppression Contractor to coordinate installation with all building trades, including the mechanical, plumbing and electrical trades. The Engineer's Working Drawings are not meant to limit or supersede the Fire Suppression contractor's responsibilities and requirements under 61G15-32. The Fire Suppression Contractor shall provide complete sprinkler system layout drawings and the related hydraulic calculations as specified in 61G15-32. Contact Engineer of Record for any clarifications regarding deviations from the Engineer's intent of design.



**FIRE PROTECTION SITE PLAN**  
NEWSPRINT STORAGE SCALE: 1" = 30'-0"

**FIRE PROTECTION SHEET INDEX**

FP1.0	FIRE SPRINKLER SITE PLAN
FP2.0	FIRE SPRINKLER FLOOR PLAN
FP3.0	FIRE SPRINKLER SECTION

**BID DOCUMENT**  
**NOT FOR CONSTRUCTION**

**ENERGY SYSTEMS DESIGN, INC.**  
ALAN H LUNDSTROM PE  
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DAYTONA BEACH FL 32114  
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**DAYTONA BEACH NEWS JOURNAL NEW WAREHOUSE ADDITION**

NO.	REVISION/ SUBMISSIONS	DATE

SMT. TITLE NEWSPRINT STORAGE BUILDING

COMMISSION NO.	1010	SCALE:	1"=20'-0"
DRAWN:	AHL/DHR	SHEET NO.	FP1.0
CHECKED:	AHL	DATE:	JULY 9, 2010