

Project Specifications

System Design and Phase I Installation of Fire Suppression Sprinkler System



Project Location: West Ossipee Fire Department, Jewell Hill Station
11 Jewell Hill Road
West Ossipee, NH 03890

Property Owner: West Ossipee Fire Precinct
PO Box 643
West Ossipee, NH 03890

Owner's Representative:: Bergeron Technical Services, LLC
PO Box 241
50 Seavey Street
North Conway, NH 03860
603.356.0022

PROJECT HISTORY

The West Ossipee Fire Department Jewell Hill Station is a single story Morton pre-fabricated building. It contains approximately 6,450 sq feet used to house and store various fire department apparatus and rescue and training equipment. The building is a single story with a small mezzanine located at the southeast corner. Beneath the mezzanine there are two restrooms with showers. The mezzanine structure and stair access is constructed of combustible materials.

In accordance with the requirements of the State of NH building and fire codes a sprinkler system compliant with the requirements of NFPA 13 is required in this building. Due to the lack of a community or municipal water service and budget constraints a phased installation has been approved. Bergeron Technical Services been asked to implement the design and installation of the fire suppression system in phases as efficiently as the West Ossipee Fire Precinct's budget will allow.

This project (Phase I) constitutes the design of a complete automatic fire suppression system for the Jewell Hill Station along with the installation of the sprinkler system at the interior of the building. The funds for this project have not been allocated to the West Ossipee Fire Precinct at this time. The value of the chosen bid will be placed on the West Ossipee Fire Precinct Warrant with the intent being the project will be funded for installation in the spring of 2016.

PROJECT DESCRIPTION

As previously mentioned, this is a phased project with the intent being that fire protection sprinkler components installed as Phase I will be built onto in the future to complete full automatic sprinkler coverage protection of the building. To that end, all designs and equipment installations must take future phases into consideration and any proposal that does not adequately address the future will not be considered as meeting the project intent.

Phase I includes the design of the system for the entire building and the installation of the automatic fire suppression (sprinkler) system riser, fire department connection, main piping, branch lines and sprinkler heads. When Phase I is complete there will not be a permanent water supply for this sprinkler system.

In the event of a fire emergency in the building after Phase I is complete, the responding fire personnel will be able to boost the sprinkler system through the fire department connection. Phase II is the design and installation of an on-site underground water storage tank, which will be the on-site supply for the sprinkler system. Phase III will be the design and construction of a fire pump building, and the installation of the fire pump, associated controls, connection to the sprinkler system, and full suppression system commissioning.

PROJECT INFORMATION RELATING TO DESIGN

- The riser shall include provisions for the connection of an appropriately sized ductile pressure main that will feed the system from the future fire pump and water supply tank.

- Floor plans and building section of existing conditions, in an AutoCAD 2010 format, (or earlier format upon request) are available via email from the owners' technical representative (Bergeron Technical Services). Please send your request to KateR@BergeronTechnical.com. Existing conditions information is considered to be reasonably accurate however it must be verified in the field by the sprinkler system contractors and should not be used "as is" for construction or manufacturing purposes. Building plans and specifications are available for a fee of \$25 to be picked up at Bergeron Technical Services, LLC or may be mailed for a fee of \$30 payable to Bergeron Technical Services, LLC.

Kate Richardson, Project Manager
Bergeron Technical Services LLC
P.O. Box 241
50 Seavey Street
North Conway NH 03860
(603) 356-0022
KateR@BergeronTechnical.com

PHASE I PROJECT SPECIFICATIONS & PROPOSAL DETAILS

Phase I includes:

1. The design of the automatic fire protection system meeting the requirements of the 2010 edition of NFPA for the Jewell Hill Fire Station and
2. The installation of the automatic fire suppression (sprinkler) system from the riser through all interior piping and sprinkler heads.

By submission of a proposal for this work, all companies submitting a proposal accept that this project is based upon the concept of prescription-based specifications in accordance with NFPA 13. All proposals and companies submitting proposals must take into consideration, include, comply and agree with the following project specific items:

1. All companies submitting a proposal for this work must have a representative attend the pre-project walk through of the building which is scheduled for 10:30 A.M. Monday, October 26th, 2015.
2. Only companies that install and maintain automatic fire suppression (sprinkler) systems as a regular and normal part of their business practices will be considered eligible for this work. In the event that this item comes into question, the owners' technical representative shall determine if the company meets the necessary requirements and the decision of the owners' technical representative shall be final.
3. Preparation of all hydraulic calculations, pipe sizing, piping configuration, materials submittals and final working drawings is the responsibility of the sprinkler contractor and the value of such work shall be included as part of each proposal. Work shall not begin within the building until final plans and material specifications have been reviewed and approved by the owners technical representative in conjunction with Local and State agencies, as deemed necessary by the owners technical representative.

Plans for the fire suppression system will not be accepted for review unless the plans meet all requirements of Chapter 22 “Plans and Calculations” of the 2010 NFPA 13 standard. All submitted plans shall be prepared under the direct supervision of a NICET® certified (Level IV) Fire Protection Technician or a Fire Protection or Mechanical Engineer that is licensed in the State of New Hampshire. Proof of certification and/or Professional licensing shall be submitted with the final working drawings.

4. All base proposals shall be based upon the use of ferrous pipe approved for fire protection use installed using roll and groove joining methods on pipe sizes 1-1/4” and larger. Pipe sizes less than 1-1/4” may use threaded joining methods.
5. After the hydraulic calculations, plans and materials submittals have been approved by Bergeron Technical Services and/or the State of New Hampshire, no changes from the approved plans and/or to the approved materials will be accepted unless approved in writing by the owners’ technical representative.
6. Each company submitting a proposal must include, along with their proposal, certificates of insurance showing that the contractor maintains workmen’s compensation and general liability insurance in coverage in the amount of one million dollars per incident. Certificates of insurance must name the West Ossipee Fire Precinct and Bergeron Technical Services LLC as certificate holders.
7. Each company submitting a proposal must include with their proposal material cut sheets and product literature for major system components such as piping, fittings, valves and controls. Failure to include this information with the submitted proposal will likely deem the proposal unacceptable.
8. Contractors submitting proposals do so with the acceptance and knowledge that the Jewell Hill Fire Station is a functioning facility and while the work is taking place will remain functioning. The installing contractor is responsible to provide all necessary protection to prevent damage to the structure, West Ossipee Fire (and other) personnel, equipment and all building occupants. The installing contractor must supply their own storage trailer for the storage of project materials and equipment. All work areas shall be (at least) broom cleaned at the end of each work session (no less than once daily) and each completed work area shall, if determined necessary, be vacuumed clean upon project completion. Each contractor understands and agrees that their proposal must be “all inclusive” as the net result shall be the installation of an approved, accepted and properly function fire suppression (sprinkler) system meeting the intent of the first phase of this project.
9. It is understood that careful cutting, drilling and patching of holes may be an important part of this project. All efforts must be made to identify appropriate locations in order to facilitate “first time” accuracy. Notching, cutting or drilling of structural members must first be coordinated with the owners’ technical representative. Mis-drilled holes shall be “patched-in” so as to reasonably blend with surrounding materials and surfaces. Mis-cut structural members shall be repaired to the level necessary to bring the structural member back to its full structural capacity previous to being inappropriately cut, notched or drilled. In the event that a structural member is

detrimentally modified and requires engineering analysis for repair, all incurred costs will be borne by the contractor.

10. It is understood that this funds for this project have not yet been secured and are dependent on the Warrant Article being approved by the residents of the West Ossipee Fire Precinct at the next annual meeting. As such this project is dependent on funding being approved and will not commence until Spring of 2016. Contractors submitting proposals accept and understand that their proposal is to remain valid through the end of June 2016.
11. Only sealed proposals showing a return address will be accepted. All proposals shall be delivered in a sealed envelope clearly titled:

PROPOSAL FOR PHASE I DESIGN & PHASE I INSTALLATION –
AUTOMATIC FIRE SUPPRESSION SYSTEM
WEST OSSIPEE FIRE PRECINCT – JEWELL HILL STATION
C/O BERGERON TECHNICAL SERVICES, LLC
P.O. Box 241,
North Conway, NH 03860-0241

Proposals can be delivered in hand or by mail. If mailed, they can be mailed to:

Bergeron Technical Services LLC
Kate Richardson, Project Manager
P.O. Box 241
50 Seavey Street
North Conway NH 03860

Proposals submitted by electronic means such as facsimile or electronic mail will not be accepted.

12. Proposals will only be accepted up to the pre-determined date and time and upon the proposal sheet/s included herein. All proposals must be delivered to Bergeron Technical Services office by 2 p.m. on Friday, November 6th, 2015. All proposals will be opened and read aloud immediately following the bid deadline. Proposals received after the acceptance date and time will be returned un-opened.
13. The West Ossipee Fire Precinct fully reserves their right to accept or reject any or all proposals. Furthermore by submitting a proposal all contractors accept the West Ossipee Fire Precinct's right to negotiate with any company in order to best accomplish the objectives of the West Ossipee Fire Precinct.

BASE PROPOSAL SUBMISSION for PHASE I WORK ONLY
Automatic Fire Suppression System
West Ossipee Fire Department, Jewell Hill Station – West Ossipee, NH

_____ hereby submits this proposal for the design and
Print Company Name
installation of Phase I of an automatic fire suppression (sprinkler) system within the West Ossipee Fire Department, Jewell Hill Station as described within the “Project Specifications for Phase I Design and Installation of Fire Suppression Sprinkler System” dated 13th October 2015, prepared by Bergeron Technical Services LLC.

All work will be performed as per the PROJECT DESCRIPTION, PROJECT INFORMATION RELATING TO DESIGN, PHASE I PROJECT SPECIFICATIONS & PROPOSAL DETAILS.

_____s’ base proposal price for the final design and
Print Company Name
installation of Phase I of the automatic fire suppression (sprinkler) system as described in the project documents is:

_____ (\$_____)dollars.
Written Dollar Value Numerical Dollar Value

Working drawings will be submitted for review within _____ days after receiving the
of days
contract* for this project. Installation will begin at the site _____ days after receipt of
of days
approved drawings back from the owners’ Technical Representative, with the complete installation requiring _____ work days from start through substantial completion, testing
of days
and acceptance.

Option to provide plan certification by a professional Fire Protection Engineer licensed in the State of New Hampshire:

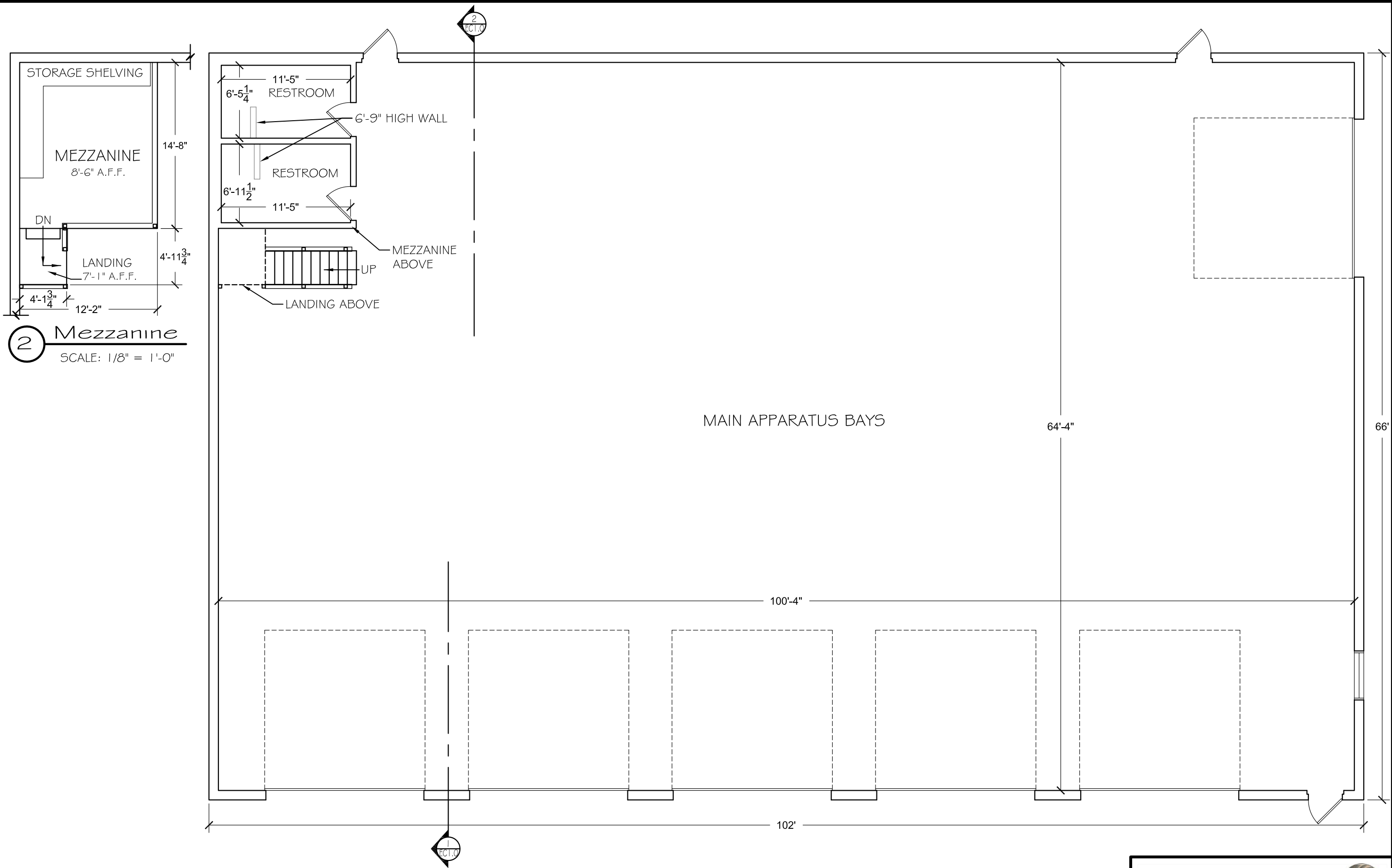
_____ (\$_____)dollars.
Written Dollar Value Numerical Dollar Value

For: _____
Company Name

Name: _____ Date: _____

Signature: _____ Title: _____
Owner, Manager, President, etc

* The contract that will be used for this project will be the AIA Document A107 “Standard Form of Agreement Between Owner and Contractor” – for a Project of Limited Scope 2007 edition.



2 Mezzanine
SCALE: 1/8" = 1'-0"

1 Existing Conditions Floor Plan
SCALE: 1/8" = 1'-0"

PROJECT DESIGN &
MANAGEMENT SERVICES
BERGERON TECHNICAL SERVICES
P.O. BOX 241
NORTH CONWAY NH 03860

PROJECT NAME:
WEST OSSISPEE FIRE DEPARTMENT
JEWELL HILL STATION
11 JEWELL HILL ROAD
WEST OSSISPEE, NEW HAMPSHIRE

SHEET TITLE:
EXISTING CONDITIONS
FLOOR PLAN
JEWELL HILL FIRE STATION

REVISIONS:

DRAWN BY:
KMR

CHECKED BY:
SGB

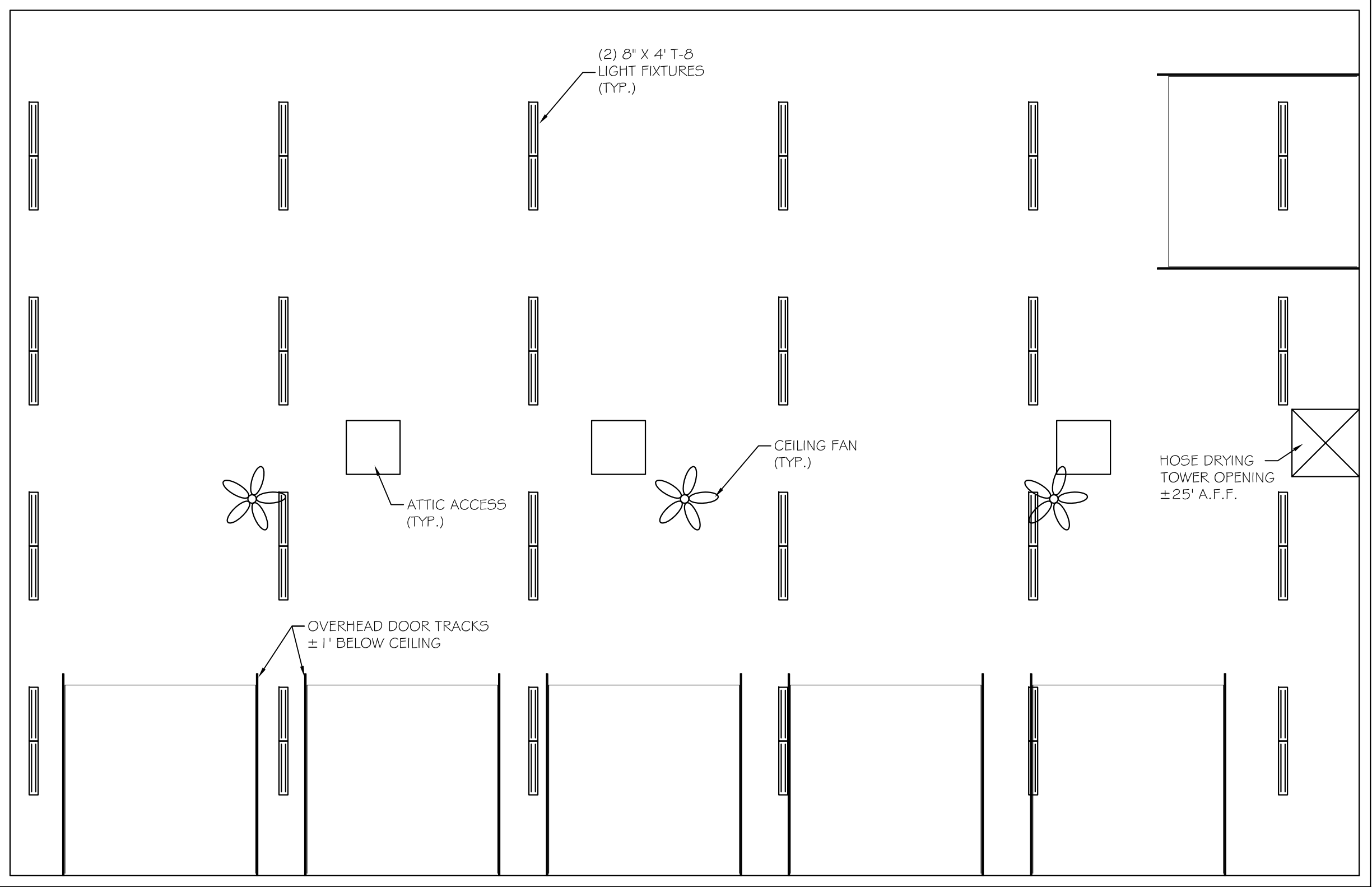
SCALE:
AS NOTED

DATE:
26 SEPT. 2015

BERGERON
TECHNICAL SERVICES LLC
WWW.BERGERONTECHNICAL.COM

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EC1.0



1

Existing Conditions Reflected Ceiling Plan

SCALE: 1/8" = 1'-0"



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PROJECT DESIGN &
MANAGEMENT SERVICES
BERGERON TECHNICAL SERVICES
P.O. BOX 241
NORTH CONWAY NH 03860

PROJECT NAME:
WEST OSSISPEE FIRE DEPARTMENT
JEWELL HILL STATION
11 JEWELL HILL ROAD
WEST OSSISPEE, NEW HAMPSHIRE

SHEET TITLE:
EXISTING CONDITIONS
REFLECTED CEILING PLAN
JEWELL HILL FIRE STATION

REVISIONS:

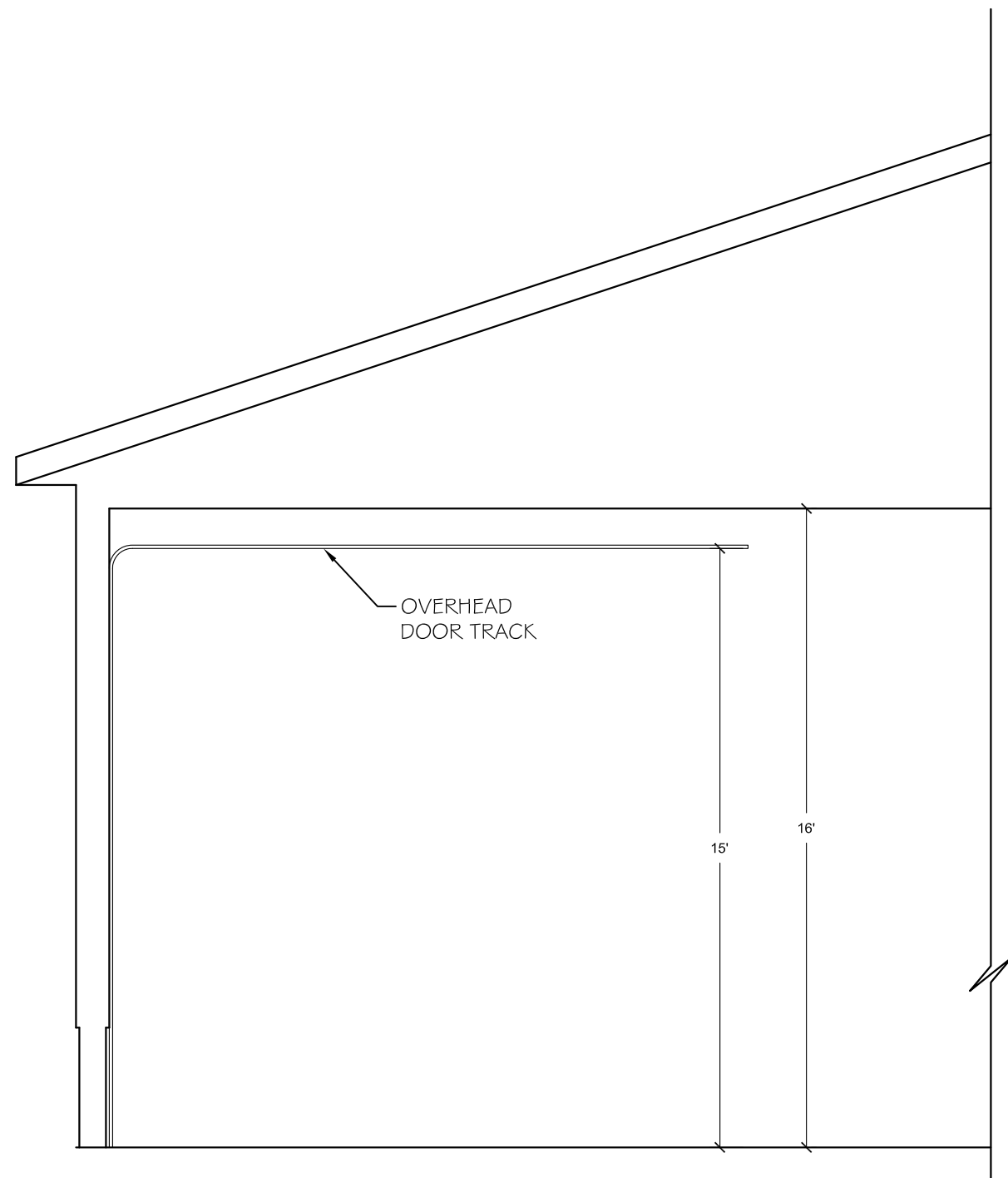
DRAWN BY:
KMR

CHECKED BY:
SGB

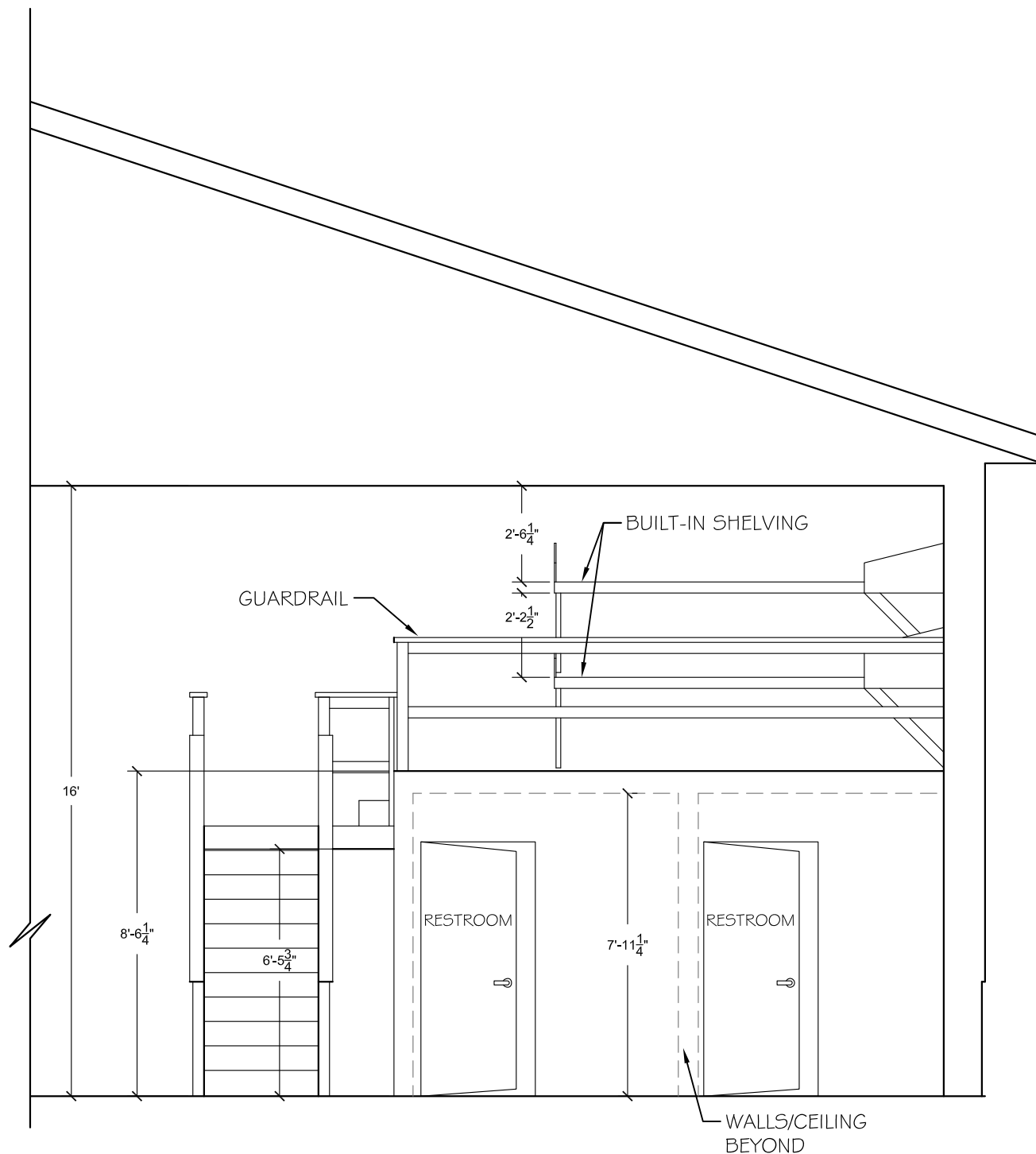
SCALE:
AS NOTED

DATE:
26 SEPT. 2015

EC1.1



1 Existing Cross Section at Overhead Door
SCALE: 1/4" = 1'-0"



2 Existing Cross Section at Mezzanine
SCALE: 1/4" = 1'-0"