

Diagram illustrating the components of a power-driven stud assembly:

- POWER-DRIVEN STUD
- ROD COUPLING
- ALL-THREAD ROD
- PIPE SWIVEL RING

Diagram illustrating the components of a concrete anchor assembly:

- CONCRETE ANCHOR (ENCASED)
- ALL THREAD ROD
- TIE SWIVEL RING

Diagram illustrating the components of a rod and reel assembly:

- KWIK-BOLT
- ROD COUPLING
- ALL THREAD ROD
- FIVE SWIVEL RING

FASTENER NUT AND WASHER
ALL THREAD ROD
PIPE SWIVEL RING

Diagram illustrating the components of a tie-down assembly:

- HEX NUT AND FENDER WASHER
- ALL THREAD ROD
- RATCHET STRAP

A schematic diagram of a self-drilling anchor assembly. It shows a vertical rod passing through a horizontal concrete slab. The rod is labeled 'ALL-THREAD ROD'. At the top, it is secured by a 'PIPE SWIVEL RING'. At the bottom, it is secured by a 'SELF-DRILLING ANCHOR'.

Diagram illustrating the components of a self-healing anchor assembly:

- SELF-HEALING ANCHOR
- ALL THREAD ROD
- PIPE SWIVEL RING

Diagram illustrating the components of a pipe joint assembly:

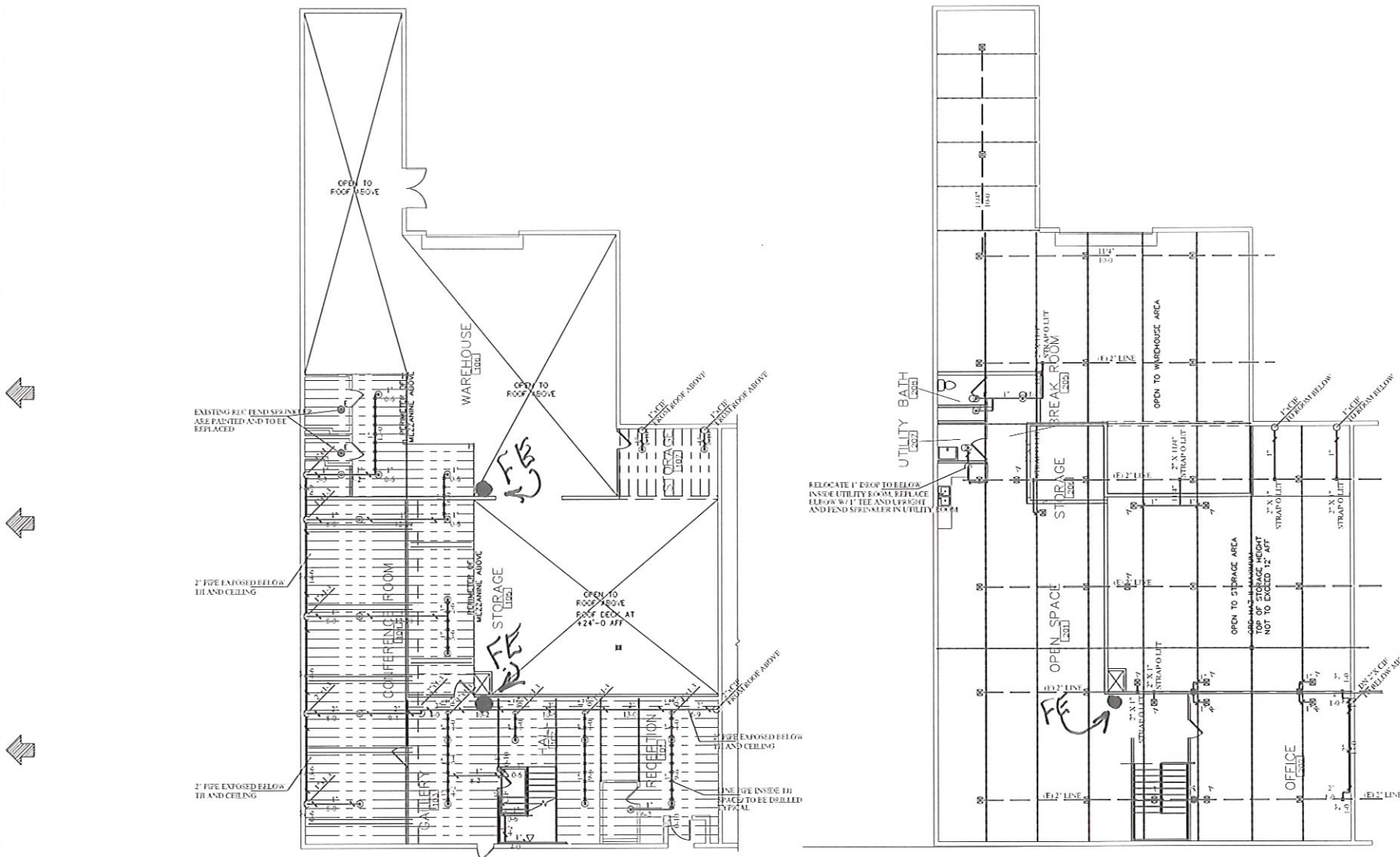
- WASHER ABOVE AND BELOW BOTTOM CHORD
- CHORD OF STEEL JOIST/TRUSS
- ALL THREAD ROD
- PIPE SWIVEL RING

Diagram illustrating the top beam clamp assembly. The components shown are:

- TOP BEAM C-CLAMP (WITH SET SCREW)
- ALL THREAD ROD
- PIPE SWIVEL RING

CROSSMAN
1/2" FASTENER
1" SWIVEL END
WRAP AROUND CROSSMAN

Diagram illustrating a 1/2" FASTENER with a 1" SWIVEL END. The diagram shows the gross and net dimensions of the fastener assembly, including the swivel end and the fastener body.

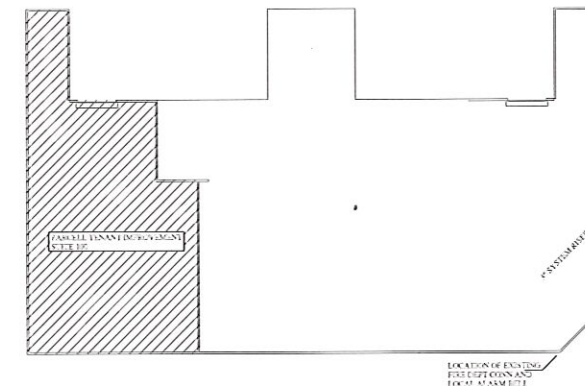


UPPER LEVEL (ROOF) PLAN
SCALE: 1/8" = 1'-0"

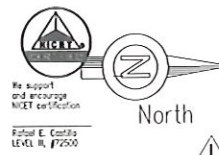
1. ALL WORK TO COMPLY WITH NFPA 13-2013 AND OR THE BLUFFDALE CITY FIRE DEPT.
2. ALL MATERIALS USED SHALL BE UL LISTED AND OR FM APPROVED FOR USE IN AUTOMATIC FIRE SPRINKLER SYSTEMS.
3. ALL NEW PIPING 1" TO 2" SHALL BE BLACK EDDYTHREAD PIPE WITH WELDED, GROOVED OR THREADED FITTINGS. ALL NEW PIPING 2 1/2" TO 4" SHALL BE BLACK EDDYFLOW PIPE WITH WELDED OR GROOVED FITTINGS. EXISTING OVERHEAD PIPING IS TO REMAIN U.N.O.
4. ALL PIPE SHALL HAVE HANGERS AND EARTHQUAKE BRACES IN ACCORDANCE WITH NFPA 13.
5. THE EXISTING FIRE SPRINKLER SYSTEM DESIGN IS BASED ON NFPA 13 ORDINARY HAZARD GROUP II OCCUPANCY WITH ECCH ELO 16 UPRIGHT SPRINKLERS.
6. EXISTING ROOF SPRINKLERS ARE SPACED AT 16' X 16' MAXIMUM. NEW SPRINKLER SPACING FOR THE NEW OFFICE AREA AND CONFERENCE ROOM DESIGN IS BASED ON LIGHT HAZARD WITH SPACING NOT TO EXCEED 225 SQ. FT. THE SMALL ROOM RULE IS USED IN THE CONF. ROOM.
7. THE SYSTEM SHALL BE TESTED PER NFPA 13.25.1 UPON COMPLETION OF NEW WORK.
8. U.P. RISERS ARE EXISTING AND NOT PART OF THE NEW WORK.
9. SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED CENTRAL STATION WITH NOTIFICATION TO THE LOCAL FIRE DEPARTMENT. THE LOCAL BUILDING ALARM IS LOCATED ON THE STREET SIDE OF THE BUILDING. THE EXISTING G.D. AND LOCAL ALARM ARE TO REMAIN.
9. THE INSTALLING CONTRACTOR IS TO SUBMIT PLAN AND PROVIDE PERMIT FROM BLUFFDALE CITY

SYMBOL LEGEND	
	EXISTING 1" OUTLET
	PLUG EXISTING 1" OUTLETS THAT WILL NOT BE REUSED
	EXISTING ELD 1/2 SPRINKLER TO REMAIN ON 1" OUTLET W/ 1" X 3/4" BUSHING
	NEW REC PEND SPRINKLER
	NEW ELD 1/2 UPRIGHT SPRINKLER TO BE ADDED AT NEW LOCATION AS SHOWN
	NEW UPRIGHT SPRINKLER
	EXISTING PIPE
	NEW PIPE _____

LEGEND



PRELIMINARY

[illegible][illegible]