

one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one quarter inch = one foot
one and one half inch = one foot
two inches = one foot
two and one quarter inch = one foot
two and one half inch = one foot
three inches = one foot
three and one quarter inch = one foot
three and one half inch = one foot
four inches = one foot
four and one quarter inch = one foot
four and one half inch = one foot
five inches = one foot
five and one quarter inch = one foot
five and one half inch = one foot
six inches = one foot
six and one quarter inch = one foot
six and one half inch = one foot
seven inches = one foot
seven and one quarter inch = one foot
seven and one half inch = one foot
eight inches = one foot
eight and one quarter inch = one foot
eight and one half inch = one foot
nine inches = one foot
nine and one quarter inch = one foot
nine and one half inch = one foot
ten inches = one foot
ten and one quarter inch = one foot
ten and one half inch = one foot
eleven inches = one foot
eleven and one quarter inch = one foot
eleven and one half inch = one foot
twelve inches = one foot

GENERAL NOTES:

1. PROVIDE ELECTRONIC TAMPER SWITCH FOR ALL CONTROL VALVES.
2. FIRE SPRINKLER MAIN PIPING IS INDICATED FOR COORDINATION. ALL SPRINKLER PIPING SHALL BE DESIGNED BY THE CONTRACTOR AS SPECIFIED.
3. SHOP DRAWINGS OF SPRINKLER PIPING SYSTEM REQUIRED. REFER TO SPECIFICATIONS. DO NOT PROCEED UNTIL SHOP DRAWINGS APPROVED BY THE CONTRACTING OFFICER ARE AVAILABLE AT THE SITE.
4. PROVIDE PENDANT SPRINKLER HEADS IN LOW BAY AREAS WITH CEILING AND UPRIGHT SPRINKLER HEADS IN HIGH BAY AREA.
5. COORDINATE THE PLACEMENT OF ADDITIONAL SPRINKLERS BELOW DUCTWORK, CATWALKS, MEZZANINE, FCL'S, ETC. IN ACCORDANCE WITH NFPA 13.
6. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
7. COORDINATE SPRINKLER SYSTEM WITH OTHER TRADES.
8. PROVIDE SPRINKLER GUARDS ON ALL SPRINKLERS OVER AND UNDER CATWALKS AND OTHER AREAS SUBJECT TO DAMAGE PER NFPA.

FIRE PROTECTION SYMBOLS	
PIPING AND VALVES	
---FW---	FIRE WATER PIPING BELOW GRADE/SLAB
---	SPRINKLER PIPING ABOVE GRADE/SLAB
---	SPRINKLER DRAIN PIPING
---	GATE VALVE WITH TAMPER SWITCH
---	CHECK VALVE
FDC	FIRE DEPARTMENT CONNECTION

PIPE FITTINGS	
---	FLOW SWITCH
---	PRESSURE GAGE
---	FLANGED
---	ELBOW (90°)
---	ELBOW (45°)
---	ELBOW (TURNED UP)
---	ELBOW (TURNED DOWN)
---	TEE
---	TEE (TURNED UP)
---	TEE (TURNED DOWN)
---	UNION - GROUND JOINT
---	REDUCER - CONCENTRIC
---	REDUCER - ECCENTRIC, FLIGHT CROWN
---	REDUCER - ECCENTRIC, FLIGHT UNIFORM
---	CAPPED LINE
---	BLIND FLANGED CAP

ABBREVIATIONS	
ABB	DESCRIPTION
A/S	AUTOMATIC SPRINKLER SYSTEM
AFF	ABOVE FINISHED FLOOR
AUTO	AUTOMATIC
BFP	BACKFLOW PREVENTER
CAP	CAPACITY
CI	CAST IRON
CONN	CONNECTION
CONT	CONTINUATION
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATION
FACP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
FSZ	FIRE SPRINKLER ZONE
FW	FIRE WATER
GAL	GALLON
HVAC	HEATING/VENTILATION/AIR CONDITIONING
IPS	IRON PIPE SIZE
	MAXIMUM
MIN	MINIMUM
(N.C.)	NORMALLY CLOSED
NG	NORMALLY OPEN
(N.O.)	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
PV	POST INDICATOR VALVE
RESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
REF	REFERENCE
REG	REGULATING
REQD	REQUIRED
SP	STANGPIPE
SO	SQUARE
TEMP	TEMPERATURE
TYP.	TYPICAL
W/	WITH

FIRE PROTECTION DESIGN INFORMATION:

PROJECT AREA: NEW BOILER BUILDING

REF.: NFPA 13

THE NEW BOILER BUILDING HIGH BAY AREA IS CLASSIFIED AS AN ORDINARY HAZARD GROUP #2. THE LOW BAY SUPPORT AREAS ARE CLASSIFIED AS LIGHT HAZARD.

MINIMUM SPRINKLER WATER SUPPLY REQUIREMENTS

1500 SQ. FT. x 0.20 GPM/FT. + PRES. LOSS =	400 GPM
INSIDE HOSE STREAM =	250 GPM
MIN. WATER DEMAND =	550 GPM

FDC
175 PSI
MAXIMUM

PROVIDE FDC/MAXIMUM PRESSURE SIGNAGE IN ACCORDANCE WITH NFPA REQUIREMENTS

Order Plans

FINAL DESIGN
APPROVED FOR CONSTRUCTION

CONSULTANTS:

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This form has been electronically signed and sealed by James J. Williams, P.E. On 3/28/2015 using a digital signature.
Printed copies of this document are not considered signed and sealed and no signature should be printed on any electronic copies.

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AKEA Project No. 083-14

FIRE PROTECTION LEGEND AND ABBREVIATIONS

Approved: Project Director

REPLACE BOILERS - FCA D. ENERGY AT THE MALCOM RANDALL VAMC

Location: **GAINESVILLE, FLORIDA**

Date: MARCH 9, 2015

Checked: JSN

Drawn: RWD

Project Title: REPLACE BOILERS - FCA D. ENERGY AT THE MALCOM RANDALL VAMC

Project Number: 573-14-600

Building Number:

Drawing Number: **FP001**

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Office of Construction and Facilities Management

Department of Veterans Affairs