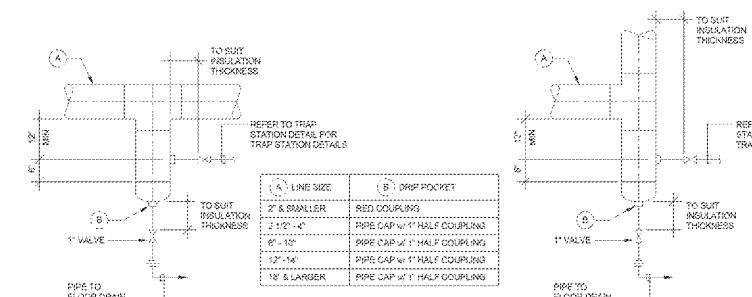


DETAIL - STEAM TRAP ASSEMBLY
SCALE: NONE

NOTES:
1. FULL SIZE DRIP LEG REQUIRED FOR PIPE SIZES.
2. PROVIDE STEAM TRAP ASSEMBLY AT ALL STEAM UTILITY EQUIPMENT LOW POINTS IN THE PIPING SYSTEM AND UPSTREAM OF STEAM ISOLATION VALVES.
3. MINIMUM 12", 18" IF SPACE PERMITS.



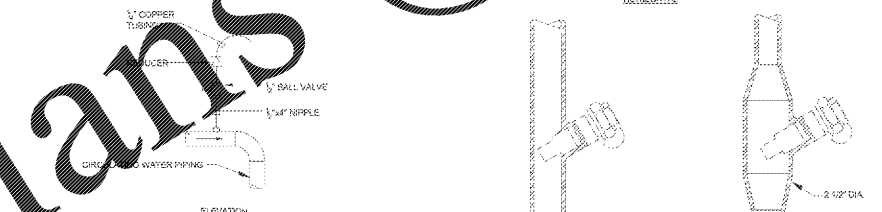
DETAIL - DRIP LEG
SCALE: NONE

NOTE:
ALL PIPING AND VALVE COMPONENTS SHOWN SHALL MATCH SPECIFICATIONS FOR THE SPECIFIC STEAM PIPING SYSTEM.



TYPICAL DRAIN VALVE CONNECTIONS
SCALE: NONE

NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED.
2. WHERE SCALE IS SHOWN ON PIPING, DRAINAGE AND/OR PLANS, LOCATE OR BOTTOM SCALE POCKET.

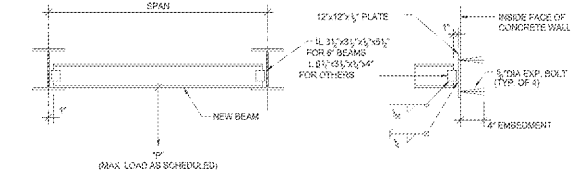


TYPICAL AIR VENT
SCALE: NONE

NOTES:
1. VENT ALL HIGH POINTS AS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

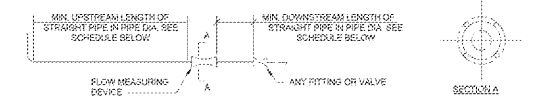
MAX. LOAD "P" (LBS)

SPAN RANGE	Wx12	Wx6	Wx12	Wx10	Wx15
0' x 1' - 2'	10,800	11,520	11,600	15,600	23,600
4' x 1' - 2'	6,400	6,400	6,800	8,300	14,300
6' x 1' - 2'	5,000	4,800	5,200	6,200	9,900
8' x 1' - 2'	3,600	3,400	3,600	4,400	6,900
10' x 1' - 2'	2,400	2,200	2,400	2,900	4,200
12' x 1' - 2'	1,800	1,600	1,800	2,100	3,100



MISCELLANEOUS STEEL SUPPORT GUIDE
SCALE: NONE

NOTES:
1. THIS INFORMATION IS PROVIDED TO GIVE THE MINIMUM BEAM SIZE REQUIRED TO SUPPORT A LOAD FOR PIPE SUPPORTS.
2. MAXIMUM LOAD "P" SHALL BE THE HIGHEST OF THE HYDROSTATIC AND OPERATING LOADS.



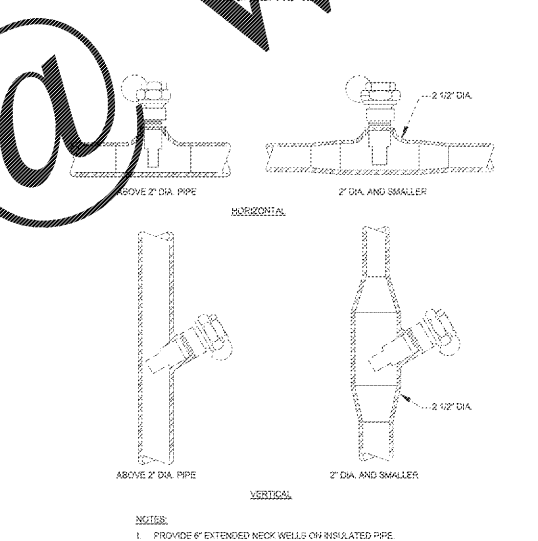
FLOW MEASURING DEVICE INSTALLATION SCHEDULE

TYPE	MINIMUM UPSTREAM LENGTH OF STRAIGHT PIPE IN PIPE DIAMETER FOR SIDE TEE	MINIMUM DOWNSTREAM LENGTH OF STRAIGHT PIPE IN PIPE DIAMETER FOR VALVE OR OTHER FITTING
REFER TO CONTRACT DOCUMENTS AND SPECIFICATIONS	20	10

FLOW MEASURING DEVICE INSTALLATION SCHEDULE
SCALE: NONE

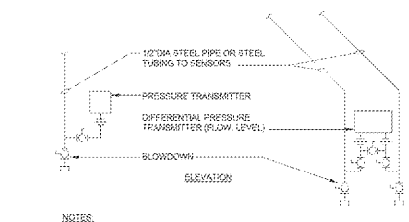
NOTES:
1. DIMENSIONS SHOWN IN SCHEDULE ARE GENERAL MINIMUM REQUIREMENTS. MANUFACTURER OF FINISHED FLOW MEASURING DEVICE RECOMMENDING A GREATER OR LESSER DIMENSION, USE THOSE DIMENSIONS.
2. INSTALL THE FLOW MEASURING DEVICE SO THE FLOW ARROW OR INDICATOR IS IN THE DIRECTION OF THE FLOW.
3. THE FLOW MEASURING DEVICE MAY BE INSTALLED IN EITHER HORIZONTAL OR VERTICAL POSITION. REMOTE METERS SHALL HAVE THE METER CONNECTIONS LOCATED ON THE HORIZONTAL SIDE WHEN INSTALLED IN HORIZONTAL PIPE. SEE SECTION A. THE METER CONNECTIONS CAN BE INSTALLED IN EITHER POSITION WHEN INSTALLED IN VERTICAL PIPE.

INSTALLATION OF THERMOMETER WELLS
SCALE: NONE



INSTALLATION OF THERMOMETER WELLS
SCALE: NONE

NOTE:
1. PROVIDE 6" EXTENDED NECK WELLS ON INSULATED PIPE.

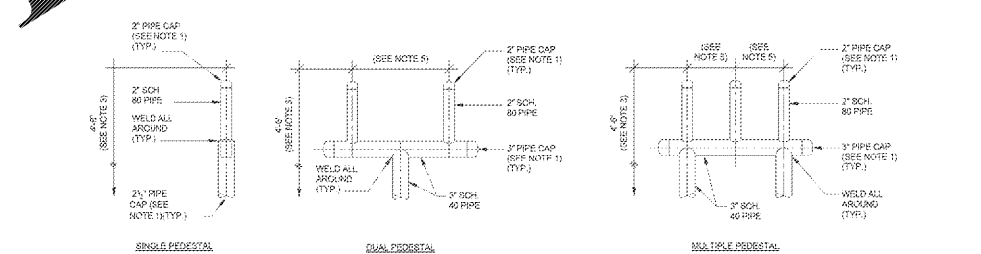


PRESSURE TRANSMITTER INSTALLATION
SCALE: NONE

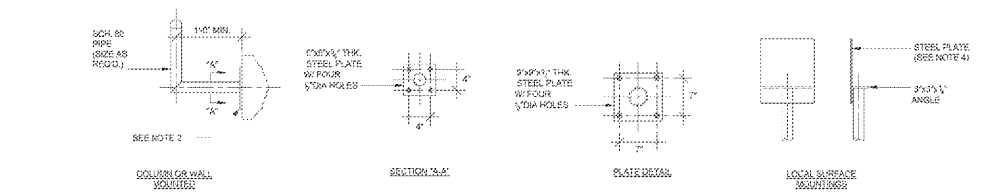
NOTES:
1. INSTALLATION OF SENSORS AND TRANSDUCERS SHALL CONFORM TO RECOMMENDATIONS OF MANUFACTURER OF TRANSMITTERS.



DETAIL - PRESSURE CONNECTIONS
SCALE: NONE



DETAIL - PRESSURE GAUGE INSTALLATIONS
SCALE: NONE



DETAIL - CONTROL INSTRUMENT INSTALLATIONS
SCALE: NONE

NOTES:
1. ALL OPEN ENDS OF PIPE TO BE CLOSED WITH A PIPE CAP OR STEEL PLATE.
2. USE 5/16" x 2 3/4" MULTIPURPOSE BOLTS TO ATTACH STEEL PLATE TO CONCRETE WALL OR COLUMN. WHEN SUPPORTING FROM STEEL COLUMN, BOLT STEEL PLATE AND BOLTS AND WELD TO COLUMN.
3. HEIGHT OF ALL VERTICAL SUPPORTS TO BE AS REQUIRED TO PLACE THE CENTERLINE OF THE INSTRUMENT ON ABOVE FINISHED FLOOR OR PLATFORM. CENTERLINE OF THE INSTRUMENT TO BE SHOWN AS THE CENTERLINE OF THE INDICATING MECHANISM DISPLAY ON THE CENTERLINE OF THE INSTRUMENT BODY IF IT IS NON-INDICATING.
4. FIELD TO SIZE STEEL PLATE AS REQUIRED FOR SUPPORT OF INSTRUMENTS NOT FINISHED WITH A MOUNTING YOKER.
5. 1/2" CENTERLINE TO CENTERLINE FOR SMALL CASE INSTRUMENTS AND THE CENTERLINE TO CENTERLINE FOR LARGE CASE INSTRUMENTS.

three inches w. one foot
one and one half inches w. one foot
one inch w. one foot
three quarters inch w. one foot
one half inch w. one foot
one quarter inch w. one foot
one eighth inch w. one foot
one sixteenth inch w. one foot
one thirty second inch w. one foot
one sixty fourth inch w. one foot

Order Plans

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AKEA Project No. 083-14

Project Title
MECHANICAL DETAILS

Approved: Project Director

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

Location
GAINESVILLE, FLORIDA

Date
MARCH 9, 2016

Checked
JSN

Drawn
RWD

Project Number
573-14-600

Building Number

Project Number
MP501

72 OF 127

Office of Construction and Facilities Management

FINAL DESIGN
APPROVED FOR CONSTRUCTION