

## Statement of Work for Fabrication of VJ Piping for LN<sub>2</sub> Service:

Fabricate Vacuum Jacketed (VJ) Piping to replace existing insulated pipe used to transfer LN<sub>2</sub> from LN<sub>2</sub> storage tank to pump delivery system. This VJ piping must fit up to mating flanges (6" 150#). It is the responsibility of the VJ Pipe vendor to verify dimensions, generate isometric drawings of VJ Pipe and take responsibility for dimensional accuracy and proper fit-up of VJ Pipe.

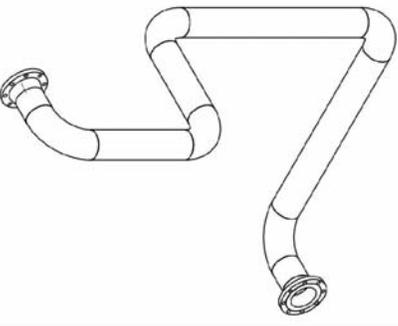
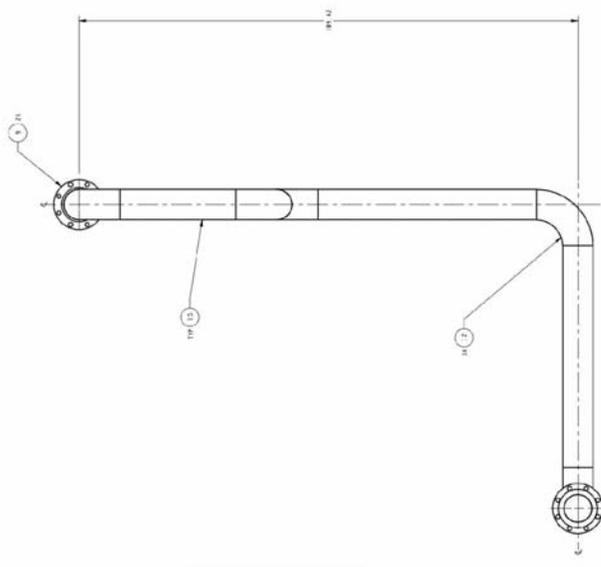
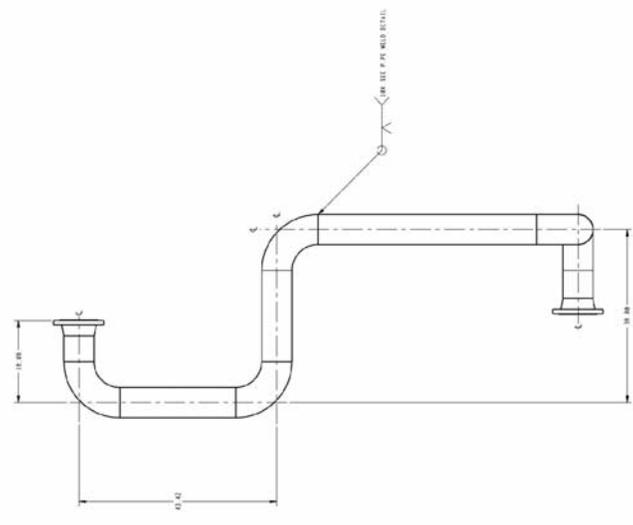
### VJ Piping:

Approximately 24 ft of 6" x 8" Sch5s 304SS VJ piping. Piping includes (Qty 1) ½" 150# ASME Pressure Relief Valve Assembly on VJ Riser (2ft) 1" X 3" VJ Flex, (Qty 1) 6" PHPK manual on/off VJ valve and (Qty 2) 150# RFWN flanges. MAWP= 150 psig @ LN<sub>2</sub> Service. Also include in piping two VJ Risers (Qty 2; for redundancy) for a "Keep Cold device that allows gas to be vented from VJ piping. This device shall maintain liquid in VJ Pipe line and vent excess gas created by normal heat leak to facility vent line. Cost of shipping to be included in quote.

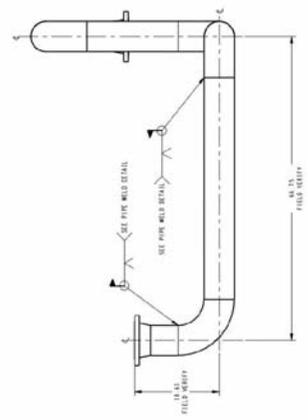
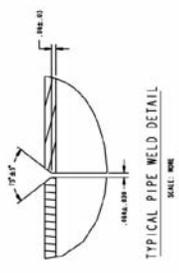
### Piping Configuration:

Attached is a drawing of existing piping that is to be replaced by VJ piping.

NO.	DESCRIPTION	DATE	BY



ISO VIEW  
FOR REFERENCE ONLY  
SCALE 1:1



SCALE 1:1

90MI 3343

PROJECT INFORMATION	
PROJECT NO.	90MI 3343
PROJECT NAME	PIPE LINES FOR LM2 KESSEL
DATE	
BY	
CHECKED BY	
DATE	