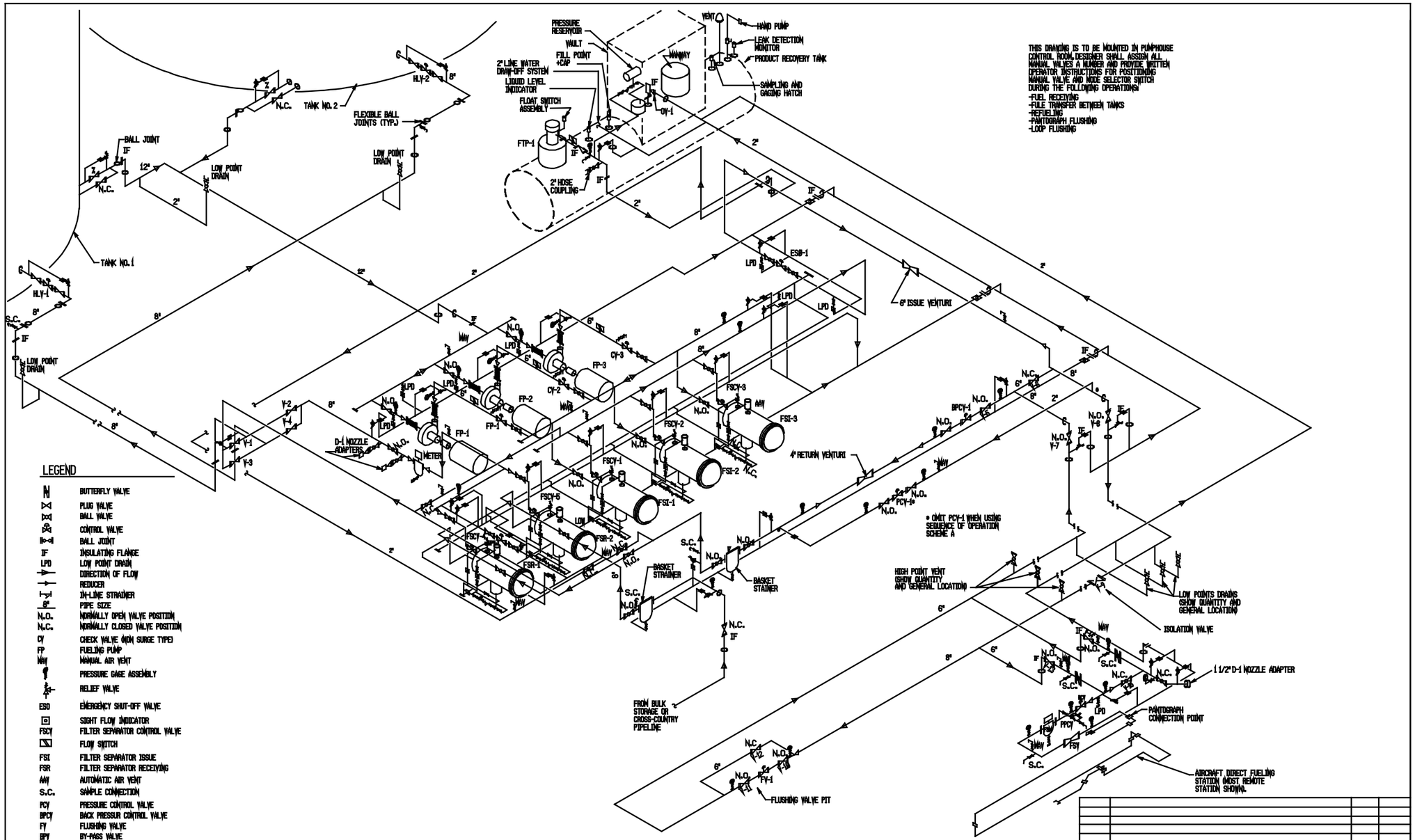

THIS DRAWING IS TO BE MOUNTED IN PUMPHOUSE CONTROL ROOM. DESIGNER SHALL ASSIGN ALL MANUAL VALVES A NUMBER AND PROVIDE WRITTEN OPERATOR INSTRUCTIONS FOR POSITIONING MANUAL VALVE AND MODE SELECTOR SWITCH DURING THE FOLLOWING OPERATIONS:

- FUEL RECEIVING
- FUEL TRANSFER BETWEEN TANKS
- REFUELING
- PANTOGRAPH FLUSHING
- LOOP FLUSHING

LEGEND

	BUTTERFLY VALVE
	PLUG VALVE
	BALL VALVE
	CONTROL VALVE
	BALL JOINT
IF	INSULATING FLANGE
LPD	LOW POINT DRAIN
	DIRECTION OF FLOW
	REDUCER
	IN-LINE STRAINER
6"	PIPE SIZE
N.O.	NORMALLY OPEN VALVE POSITION
N.C.	NORMALLY CLOSED VALVE POSITION
CV	CHECK VALVE (NON SURGE TYPE)
FP	FUELING PUMP
MAN	MANUAL AIR VENT
	PRESSURE GAGE ASSEMBLY
	RELIEF VALVE
ESD	EMERGENCY SHUT-OFF VALVE
	SIGHT FLOW INDICATOR
FSCV	FILTER SEPARATOR CONTROL VALVE
	FLOW SWITCH
FSI	FILTER SEPARATOR ISSUE
FSR	FILTER SEPARATOR RECEIVING
AAV	AUTOMATIC AIR VENT
S.C.	SAMPLE CONNECTION
PCV	PRESSURE CONTROL VALVE
BPCV	BACK PRESSUR CONTROL VALVE
FV	FLUSHING VALVE
BPV	BY-PASS VALVE
RCV	REFUELING CONTROL VALVE
	PIPE PENETRATION
FSM	FUELING STATION METER
FSV	FUELING STATION VENTURI
FTP	FUEL TRANSFER PUMP
	WELDING NECK FLANGE WITH BLIND FLANGE
PPCV	PANTOGRAPH PRESSURE CONTROL VALVE
	BALL VALVE WITH DEADMAN SPRING RETURN HANDLE
V-	VALVE DESIGNATION NUMBER

REVISION	DESCRIPTION	DATE	APPROVED

SUPERSEDES PREVIOUS EDITIONS OF THIS DRAWING

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DR. CHIEF
SUPT. L. HENSLEY CH. ENGR.
SUBMITTED BY: DATE 12-2-58
ETC.
BR.HD.
FPE.
APPROVED: DATE 1/8/91
EFD FOR COMMANDER MAFAC

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS MILITARY AIRLIFT COMMAND
SCOTT AIR FORCE BASE, ILLINOIS

ACCEPTED: DATE: 1-22-91
USAF FUEL FACILITIES ENGINEER

APPROVED FOR CHIEF OF STAFF, U.S. AIR FORCE
CHIEF, ENGINEERING DIVISION
DATE: 1-22-91

AIR FORCE STANDARDS
AIRCRAFT DIRECT FUELING SYSTEM
TYPE IV

UNVERIFIED DRAFT
ISOMETRIC
PIPING PLAN
UNVERIFIED DRAFT

SCALE: AS NOTED
SPEC. NO. 70-24-29-00-AF
SHEET 17
DRAWING NO. AN 70-24-29