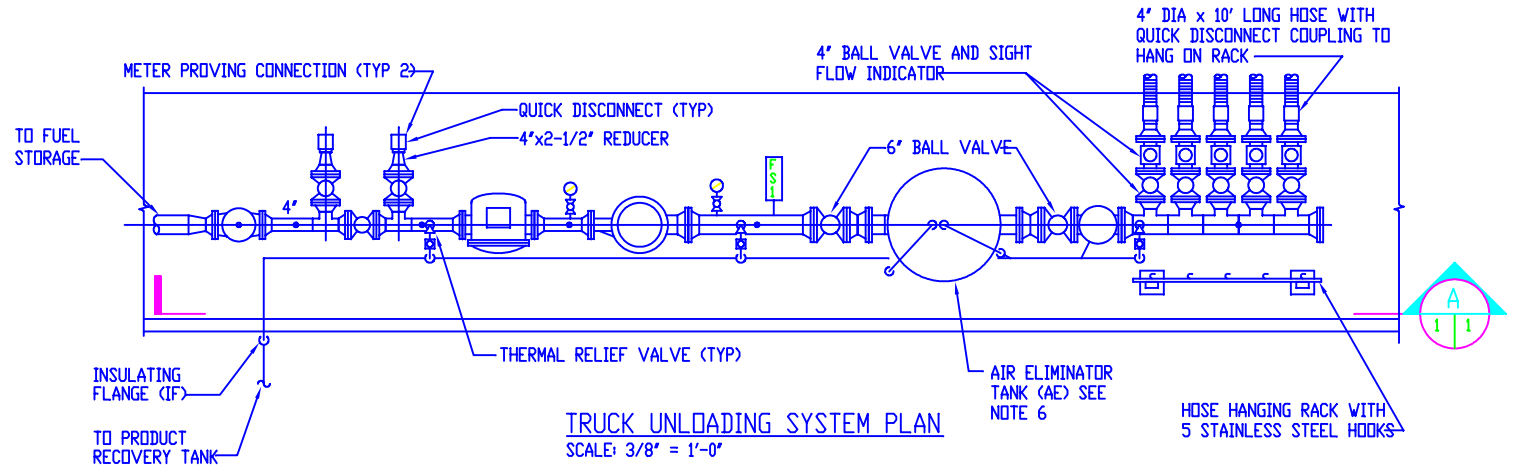
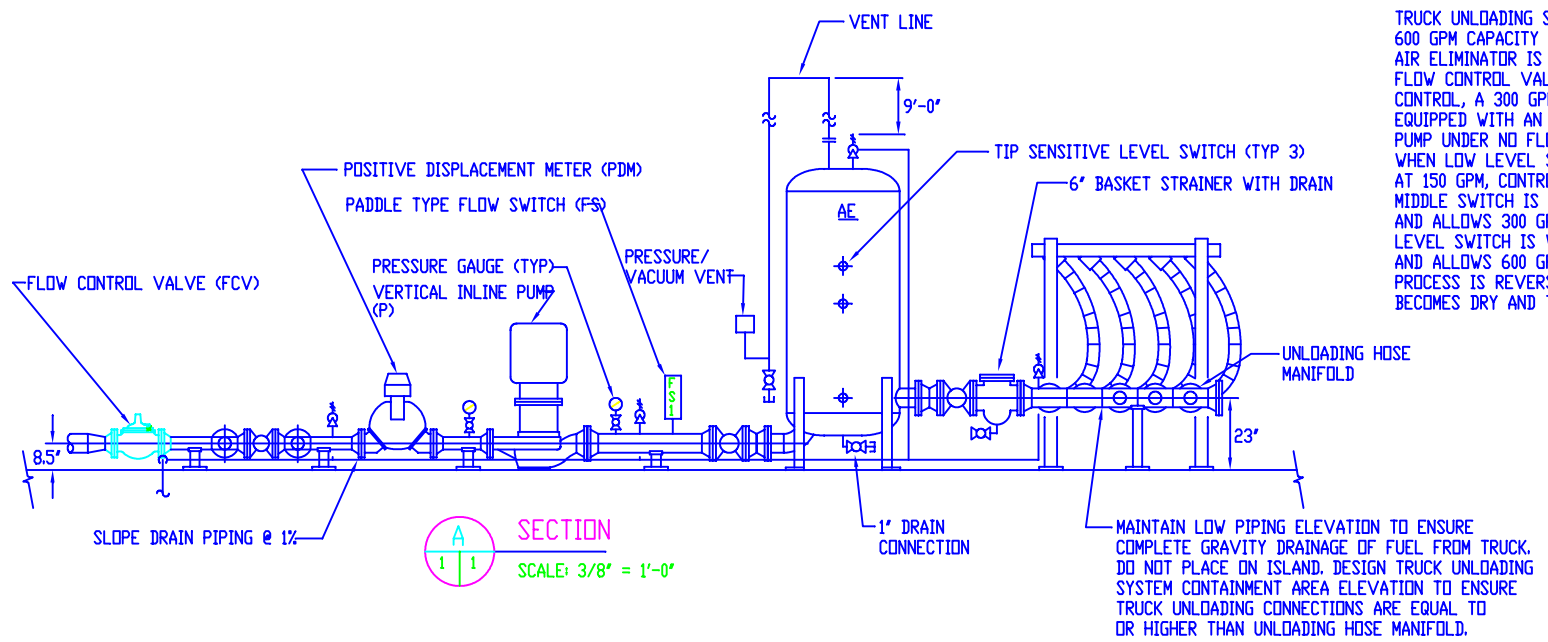


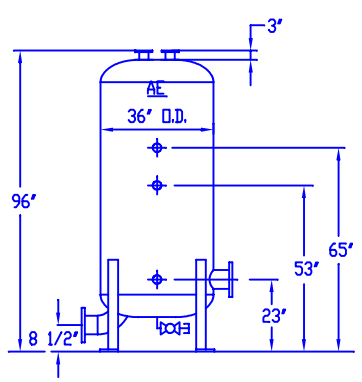
TRUCK UNLOADING SYSTEM PLAN

SCALE: 3/8" = 1'-0"



SEQUENCE OF OPERATION

TRUCK UNLOADING SYSTEM SEQUENCE OF OPERATION:
600 GPM CAPACITY
AIR ELIMINATOR IS EQUIPPED WITH THREE TIP SENSITIVE LEVEL SWITCHES.
FLOW CONTROL VALVE IS EQUIPPED WITH A 150 GPM MECHANICAL PILOT CONTROL, A 300 GPM SOLENOID AND A 600 GPM SOLENOID. PUMP IS EQUIPPED WITH AN INDEPENDENT FLOW SWITCH WHICH WILL SHUT OFF PUMP UNDER NO FLOW CONDITIONS.
WHEN LOW LEVEL SWITCH IS WETTED, PUMP IS ENABLED AND WILL PUMP AT 150 GPM, CONTROLLED BY THE 150 GPM MECHANICAL PILOT. WHEN MIDDLE SWITCH IS WETTED, THE 300 GPM SOLENOID IS ENERGIZED, OPENS, AND ALLOWS 300 GPM FLOW THROUGH THE VALVE. WHEN HIGH LEVEL LEVEL SWITCH IS WETTED, THE 600 GPM SOLENOID IS ENERGIZED, OPENS, AND ALLOWS 600 GPM FLOW THROUGH THE VALVE.
PROCESS IS REVERSED AS TANK LEVEL DROPS, UNTIL LOW LEVEL SWITCH BECOMES DRY AND THE PUMP SHUTS OFF.



AE AND TIP LEVEL SWITCH DIMENSIONS

GENERAL NOTES:

1. PROVIDE SAMPLING CONNECTIONS AND PRESSURE GAUGES AS SHOWN OR AS DIRECTED BY COMMAND FUELS ENGINEER.
2. SEE MIL-HDBK-1022 FOR ADDITIONAL REQUIREMENTS.
3. PIPING AND EQUIPMENT (EXCEPT AS NOTED) MATERIALS OF CONSTRUCTION SHALL BE AS DIRECTED BY COMMAND FUELS ENGINEER.
4. AE-1 SHALL BE PROVIDED WITH DUAL SIGHT GLASSES AND OUTLET BAFFLE.
5. NUMBER OF OFF-LOAD HOSES: MINIMUM OF 2, MAXIMUM OF 5.
6. DESIGN PRESSURE - 90 PSI @ 250°F & -20°F VESSEL SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ASME CODE, SECTION VIII, DIV. 1 FOR UNFIRED PRESSURE VESSELS, NON LABELED. VESSEL SHALL BE CARBON STEEL WITH INTERNAL EPOXY COATING.

SYM.	DESCRIPTION	DATE	APPROVED

REVISIONS

A/E LB DESIGN — JB DRAFTED — MF REVIEW — TS CHIEF ARCH/ENGR. — EFD PROJECT MANAGER, FIRE PROTECTION, QUALITY CONTROL, TRANSIT MANAGER, DESIGN DIRECTOR

Robert and Company
Engineers - Architects - Planners
56 Peachtree Street, N.W. Atlanta, Georgia 30335-6001

A/E CONTRACT NO. N62467-95-D-1100
APPROVED DATE
ACTIVITY - SATISFACTORY TO
APPROVED DATE
FOR EFD, FOR COMMANDER NAVFAC

SATISFACTORY TO:
FOR, COMMANDER, NAVAIRSYSCOM DATE

DEPARTMENT OF THE NAVY
NAVAL STATION
DEFINITIVE
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NORFOLK, VIRGINIA
STANDARD

TRUCK UNLOADING SYSTEM
PLAN, SECTION AND GENERAL NOTES

CODE I.D. NO. 80091 SIZE D
SCALE: -
EFD NO. -
STA. PROJ. NO. -
SPEC. NO. -
CONSTRN. CONTR. NO. -
NAVFAC DRAWING NO. 1404005
SHEET - OF -
1 OF 1

SAC JOB NO. 99009-00