

NOTE 1 HIGH FILLING RATES OR BLENDING OPERATIONS INVOLVING CLASS I FLAMMABLE LIQUIDS MAY REQUIRE EXTENDING THE BOUNDARIES OF CLASSIFIED AREAS.

NOTE 2 DISTANCES GIVEN ARE FOR TYPICAL PETROLEUM FACILITIES; THEY MUST BE USED WITH JUDGEMENT, WITH CONSIDERATION GIVEN TO ALL FACTORS DISCUSSED IN THE TEXT.

NOTE 3 IF THERE IS NO DIKE AND THERE IS NO REMOTE IMPOUNDING, THE DIVISION 2 AREA EXTENDS 10 FEET HORIZONTAL DISTANCE FROM THE TANK SHELL.

NOTE 4 THE INTERIOR OF THE VENT PIPING IS DIVISION 1. CROSS HATCHING HAS BEEN OMITTED FOR DRAWING CLARITY.

FIG. 6:

FIXED ROOF FLAMMABLE LIQUID STORAGE TANK IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE SECTION 8.2.1.1.2)

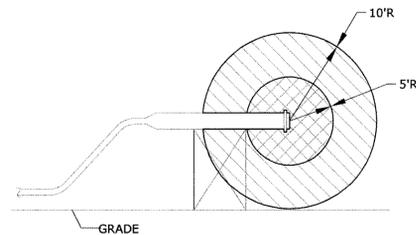


FIG. 49:

BALL OR PIG LAUNCHING OR RECEIVING INSTALLATION IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE SECTIONS 10.6.6.1.1 AND 10.6.6.2.1)

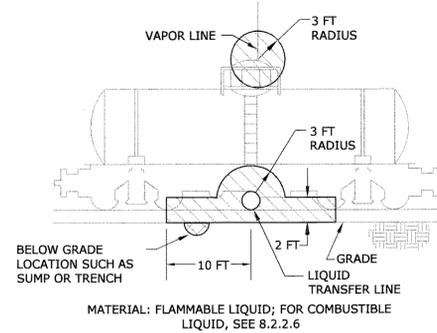


FIG. 11:

TANK CAR OR TANK TRUCK LOADING AND UNLOADING VIA CLOSED SYSTEM, PRODUCT TRANSFER THROUGH BOTTOM ONLY
(SEE SECTION 8.2.2.3)

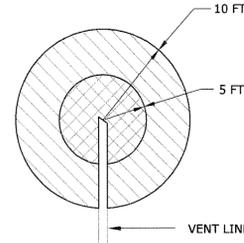


FIG. 14:

PROCESS EQUIPMENT VENT IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE SECTION 8.2.3.1)

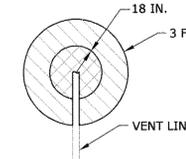


FIG. 15:

INSTRUMENT OR CONTROL DEVICE VENT IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE SECTION 8.2.3.2)

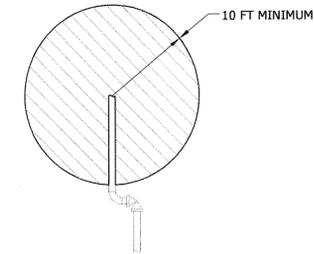


FIG. 18:

RELIEF VALVE IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE SECTION 8.2.3.4.1)

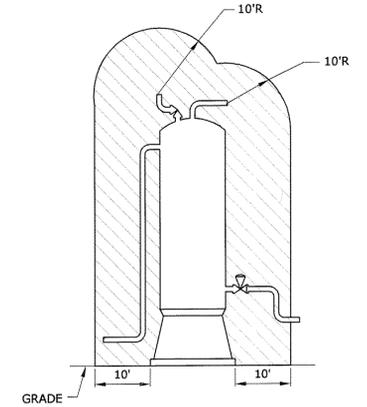


FIG. 48:

HYDROCARBON PRESSURE VESSEL OR PROTECTED FIRED VESSEL IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE SECTIONS 10.6.3.1, 10.6.5.1, AND 10.6.7.1)

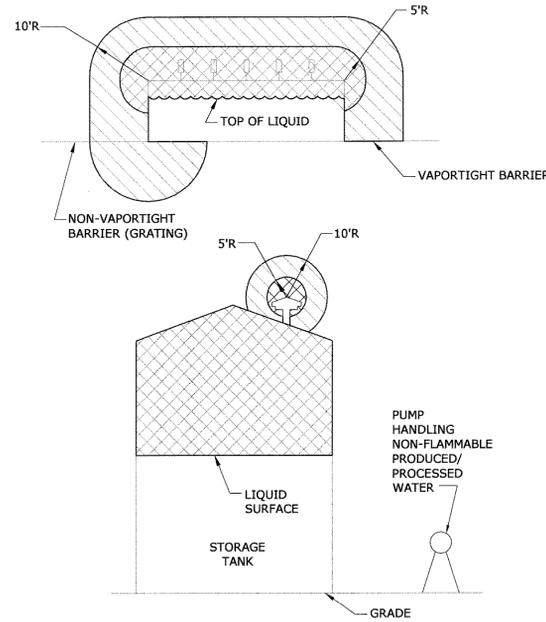


FIG. 50:

FLAMMABLE GAS-BLANKETED AND PRODUCED/PROCESSED/INJECTED WATER-HANDLING EQUIPMENT (TANK (IN LOWER FIGURE) AND FLOATATION CELL (IN UPPER FIGURE)) IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE SECTIONS 10.8.1.1.2.1, 10.8.1.1.2.2 AND 10.12.4)

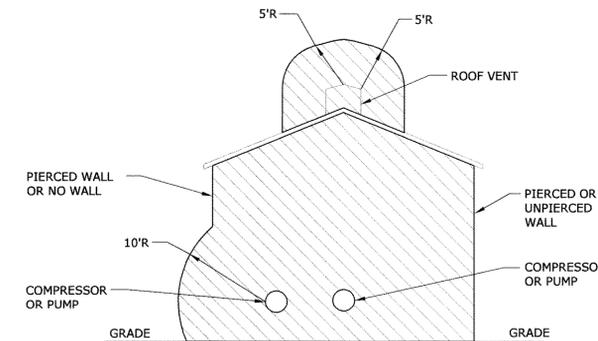
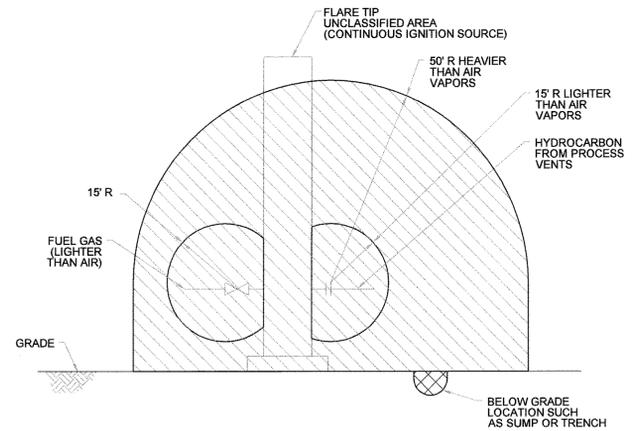


FIG. 53:

COMPRESSOR OR PUMP IN AN ADEQUATELY VENTILATED ENCLOSED AREA
(SEE SECTION 10.9.2)



FLARE DETAIL:

FLARE OR INCINERATOR STACK NON-ENCLOSED ADEQUATELY VENTILATED AREA REFINERY OR LARGE PRODUCTION/PROCESS FACILITY

NOTE:
THIS DETAIL REASONABLY DEPICTS THE INTENT OF API RP500 (1997) SECTIONS 6.2.4.2 AND 6.2.4.3 AND NFPA 497 (2008) SECTION 5.4.3.

LEGEND



NOTES:

1. AREA CLASSIFICATIONS DETERMINED PER API RECOMMENDED PRACTICE 500: "RECOMMENDED PRACTICE FOR CLASSIFICATION OF LOCATIONS FOR ELECTRICAL INSTALLATIONS AT PETROLEUM FACILITIES CLASSIFIED AS CLASS I, DIVISION 1 AND DIVISION 2." THIRD EDITION, DECEMBER 2012. FIGURE NUMBERS REFERRED TO IN THE DETAILS FOR AREA CLASSIFICATION ON THIS DRAWING MATCH THOSE IN THE API RP 500 PUBLICATION.



This document is copyrighted and is an instrument of service by Samuel Engineering (SE). It was prepared solely for the Owner's/Client's use on this project only. Use, copy or disclosure of any information shown, in whole or in part, without SE's consent, is strictly prohibited. It is a copyright breach and may be prosecuted. Any unauthorized reuse shall be at the sole risk of the user.		CH JK DN		C	RE-ISSUED FOR PERMIT	01/02/14	LBM	DESIGNED: L.MUGGE	10/24/13	CLIENT: BERRY PETROLEUM COMPANY	TITLE	PROJECT NO.
EE-900	AREA CLASSIFICATION PLAN	CH JK DN	B	ISSUED FOR PERMIT	11/12/13	LBM	DRAWN: L.MUGGE	10/24/13	LOCATION: GARFIELD COUNTY, CO	HOUSE LOG TANK FACILITY	13041-01	
			A	ISSUED FOR REVIEW	11/01/13	LBM	CHECKED: D.NOWICKI	10/30/13		ELECTRICAL AREA CLASSIFICATION DETAILS	DRAWING NUMBER	
DWG NO.	DESCRIPTION	CLIENT	PROJECT MANAGER	PROJECT ENGINEER	CHECKER	NO.	DESCRIPTION	DATE	BY	APPROVED:	REV.	
REFERENCE DRAWINGS		REVISIONS		REVISIONS		REVISIONS		APPROVED:		REV. C		
<p>Samuel Engineering We Provide Solutions 8450 E. Crescent Parkway, Suite 200 Phone: 303.714.4840 Greenwood Village, CO 80111 Fax: 303.714.4800</p>										<p>EE-901</p>		