



CITY OF FORT PIERCE, FLORIDA  
 BUILDING DEPARTMENT  
 APPLICATION FOR BUILDING PERMIT  
 (772) 467-3529 or 467-3724 FAX (772) 467-3849

Permit # 14-1461  
 FBC 2010

\*Property Address 680 Farmers Market rd \*Date 5-23-14 \*# of plans submitted 2 \*# of CD's submitted \_\_\_\_\_  
 Parcel ID 2427-601-0022-010-5 Phone # 772 359 5001 Fax # (\_\_\_\_\_) \_\_\_\_\_  
 (Located on your tax bill) Email Address \_\_\_\_\_ Cell # (\_\_\_\_\_) \_\_\_\_\_  
 \*Owner Name ABE Investment group LLC \*Owner Address 1207 Rustling Av

Type of permit Gas \*Valuation \$ 2422.50  
 \*Description of Work Install 1000 Gallon Tank 4 gas line to paint booth  
Above ground.

Architect: \_\_\_\_\_ Phone(\_\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_  
 Email Address \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Phone(\_\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_  
 Email Address \_\_\_\_\_

\*CONTRACTOR/APPLICANT INFORMATION: City License # \_\_\_\_\_ State License # 16998  
 Company Name MARKS GAS SYSTEMS & REPAIR INC Qualifier Mark Thompson  
 Address 6982 Barbours rd City/State R. Viera BC FL Zip 32947  
 Phone # 561 239 7972 Fax # 561 844 6338 Cell # 561 239 7972  
 Email Address MARKS.GAS.SYSTEMS@Bellsouth.net

SUBCONTRACTORS: See Subcontractor Verification Sheet. It may be Required to accompany this application

Occupancy \_\_\_\_\_ Construction Type \_\_\_\_\_ # of Units \_\_\_\_\_ # of Stories \_\_\_\_\_  
 Sq. Ft. Conditioned Space \_\_\_\_\_ Total Sq. Ft. \_\_\_\_\_

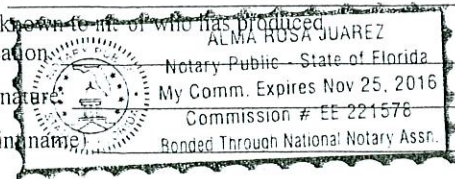
Is the property located in a Special Flood Hazard Area (floodplain) per the current Flood Insurance Rate Map (FIRM)?  
 Yes  No

If Yes, the applicant must include certified elevation information on a FEMA NFIP Elevation Certificate.

I understand that no building may be occupied until a Certificate of Occupancy/Certificate of Completion has been issued after final inspection by the Building Department and full compliance with the building code, city and state ordinances and other applicable rules and regulations. I am also verifying that all sets of plans submitted are identical.

Signature of Applicant [Signature]  
 State of Florida, County of St. Lucie  
 Affirmed to and subscribed before me this 23  
May 20 14, by MARK THOMPSON  
 personally known to me or who has produced  
 as identification. AL 12-544-60-0960  
 Notary Signature: [Signature]  
 Notary (print name) \_\_\_\_\_

Signature of Property Owner \_\_\_\_\_  
 State of Florida, County of \_\_\_\_\_  
 Affirmed to and subscribed before me this \_\_\_\_\_  
 20\_\_\_\_, by \_\_\_\_\_  
 personally known to me or who has produced  
 as identification. \_\_\_\_\_  
 Notary Signature: \_\_\_\_\_  
 Notary (print name) \_\_\_\_\_



Construction documents must accompany this application. The Florida energy code submitted becomes an integral part of this plan and must pass final inspection. "Notice: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public record of this county, and there may be additional permits required from other governmental entities such as waste management district, state agencies, or federal agencies." SIGNATURE OF THE APPLICANT MUST BE NOTARIZED. If owner builder, applicant: must sign in person. BUILDING PERMIT includes: Building, Electrical, Plumbing, Mechanical, and Sewer only. All other trades require separate permits.

\*Required Information

Asbestos compliance: It is the owner's or operator's responsibility to comply with section 469.003, Florida Statutes, and to notify the Department of Environmental Protection of his or her intentions to remove asbestos, when applicable, in accordance with state and federal law.

OFFICE USE ONLY  
 FEES: \* See the break Down Fee Sheet BP75  
 Total Fees Due \$ 79.50 SR4.50 BC112T 85 6438

Remarks \_\_\_\_\_  
 Reviewed by \_\_\_\_\_ Date \_\_\_\_\_ Building Official \_\_\_\_\_ Date \_\_\_\_\_

# BOUNDARY SURVEY

## LEGAL DESCRIPTION:

THE NORTH 60 FEET OF THE WEST 125 FEET OF THE EAST 500 FEET OF LOT 167, AND THE SOUTH 130.58 FEET OF THE WEST 125 FEET OF THE EAST 500 FEET OF LOT 166 OF MARAVILLA GARDENS, UNIT 3 AS RECORDED IN PLAT BOOK 6, PAGE 62, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA. MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
 COMMENCE ON THE WEST LINE OF SOUTH 7th STREET AND THE COMMON CORNER OF LOTS 166 AND 167 OF MARAVILLA GARDENS UNIT 3, AS RECORDED IN PLAT BOOK 6, PAGE 62 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA. THENCE RUN SOUTHERLY ALONG THE WEST RIGHT OF WAY OF SAID SOUTH 7th STREET, A DISTANCE OF 60.00 FEET TO A POINT, THENCE RUN WESTERLY PARALLEL TO, AND ALONG THE NORTH RIGHT OF WAY OF FARMERS MARKET ROAD, A DISTANCE OF 500 FEET TO THE PLACE AND POINT OF BEGINNING. BEGIN AT THE POINT OF BEGINNING AND RUN NORTHERLY TO THE SOUTH LINE OF THE FLORIDA EAST COAST RAILWAY SPUR TRACK RIGHT OF WAY, A DISTANCE OF 190.58 FEET. THENCE RUN EASTERLY, ALONG SAID SPUR TRACK RIGHT OF WAY, A DISTANCE OF 125.00 FEET TO A POINT, THENCE RUN SOUTHERLY, TO THE NORTH RIGHT OF WAY OF SAID FARMERS MARKET ROAD, A DISTANCE OF 190.58 FEET; THENCE RUN WESTERLY ALONG THE NORTH RIGHT OF WAY OF SAID FARMERS MARKET ROAD, A DISTANCE OF 125.00 FEET TO THE POINT OF BEGINNING. ALL LANDS BEING AND LYING IN SECTION 27, TOWNSHIP 35 SOUTH, RANGE 40 EAST, ST. LUCIE COUNTY, FLORIDA.

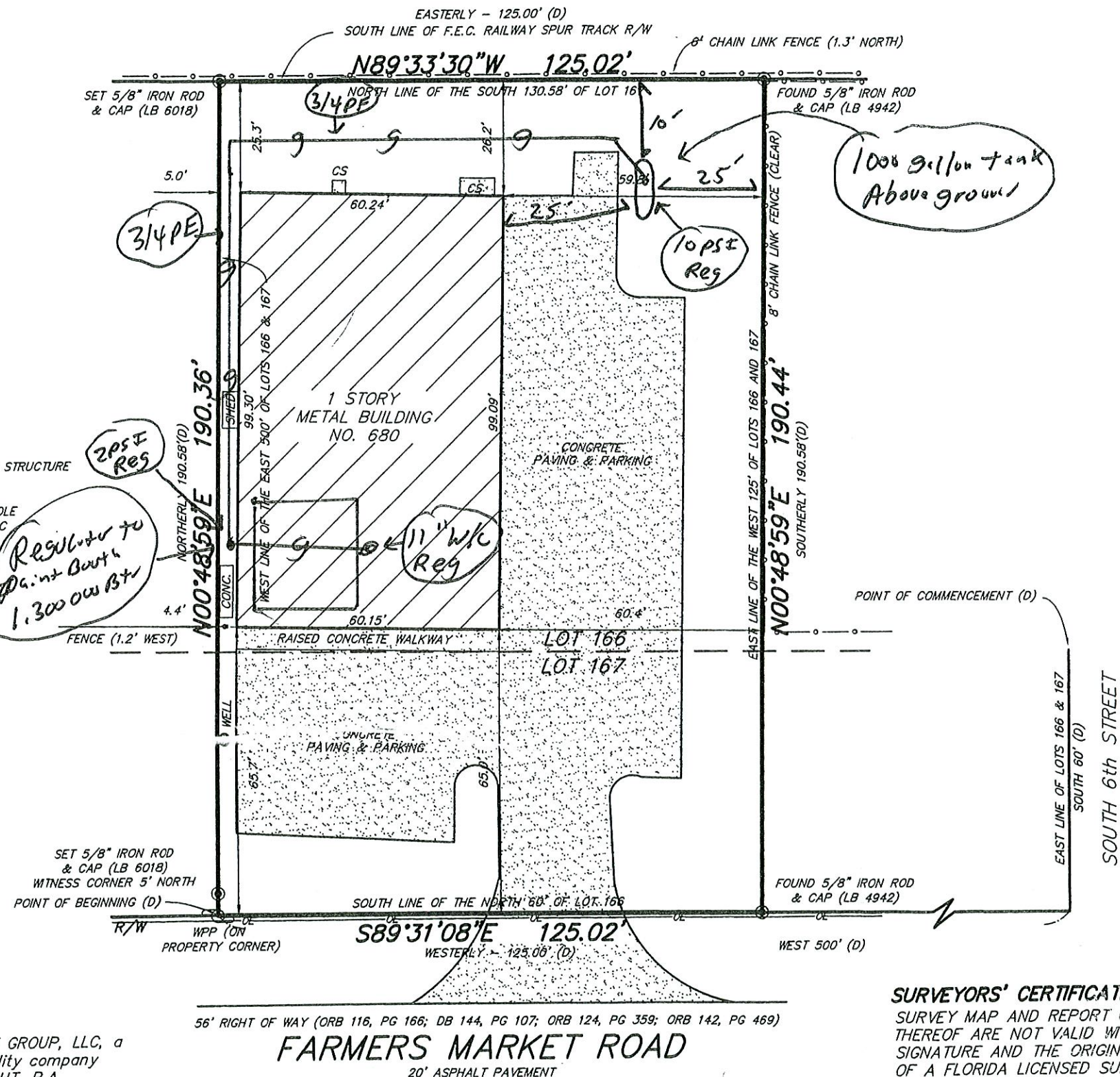
## SURVEYORS NOTES:

1. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENTS AND/OR RIGHTS OF WAY OF RECORD EXCEPT AS SHOWN ON THE RECORD PLAT IF ANY.
  2. NO ATTEMPT WAS MADE BY THIS FIRM TO LOCATE UNDERGROUND FOOTINGS OF BUILDINGS OR FENCES ON OR ADJACENT TO THIS SITE.
  3. BEARINGS SHOWN HEREON REFER TO AN ASSUMED MERIDIAN OF S.89°53'44"E ALONG THE NORTH RIGHT OF WAY LINE OF FARMERS MARKET ROAD.
  4. THIS SITE LIES IN FLOOD ZONE 'X' AS SCALED AND INTERPOLATED ON FEMA MAP NO. 120285-0189-J, DATED: FEBRUARY 16, 2012.
  5. SITE AREA: 23802.73 SQUARE FEET.
  6. LEGAL DESCRIPTION FURNISHED BY CLIENT.
  7. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OF PARTIES.
  8. THIS SITE WAS SURVEYED IN ACCORDANCE WITH OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, AGENTS FILE NO. EBNER24112293, EFFECTIVE DATE: 12-11-11 AT 11:00 PM.
- SCHEDULE B -- SECTION II  
 EXCEPTION #2: PLAT BOOK 6, PAGE 62 - AFFECTS PROPERTY, NO PLOTTABLE EXCEPTIONS  
 EXCEPTION #3: DB 81, PG 464; DB 137, PG 97; DB 195, PG 501 - AFFECTS PROPERTY, UNPLOTTABLE  
 EXCEPTION #4: DB 193, PG 165 - DOES NOT AFFECT  
 EXCEPTION #5: DB 116, PG 166; BD 144, PG 107; ORB 124, PG 359; ORB 142, PG 469 - AS SHOWN ON SKETCH  
 EXCEPTION #6: DB 74, PG 300; DB 75, PG 254 - AFFECTS PROPERTY, UNPLOTTABLE; DB 199, PG 529 - DOES NOT AFFECT  
 EXCEPTION #7: DB 239, PG 377 - DOES NOT AFFECT  
 EXCEPTION #8: ORB 1081, PG 2388 - AFFECTS PROPERTY, UNPLOTTABLE  
 EXCEPTION #9: ORB 1139, PG 2915 - AFFECTS PROPERTY, UNPLOTTABLE

## LEGEND

CBS = CONCRETE BLOCK STRUCTURE  
 ID = IDENTIFICATION  
 R/W = RIGHT OF WAY  
 WPP = WOOD POWER POLE  
 OE = OVERHEAD ELECTRIC  
 A/C = AIR CONDITIONER  
 P = PLAT  
 M = MEASURED  
 CS = CONCRETE SLAB

Regulator to Paint Booth  
 1.30000 BT



## SURVEYORS' CERTIFICATION:

SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

*Robert Bloomster Jr.*  
 ROBERT BLOOMSTER JR.  
 PROFESSIONAL LAND SURVEYOR  
 NO. 4134 STATE OF FLORIDA

## CERTIFICATION:

1. BBE INVESTMENT GROUP, LLC, a Florida limited liability company
2. EDWARD W. BECHT, P.A.
3. OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
4. ROGER B. SMITH, TRUSTEE OF THE ANN H. BORKOWSKI INTERVIVOS DECLARATION OF TRUST DATED SEPTEMBER 25, 2002
5. HACKNEY LAW, P.A.

**BLOOMSTER**  
 PROFESSIONAL LAND  
 SURVEYORS, INC.

LB #6018

641 NORTHEAST SPENCER STREET  
 JENSEN BEACH, FLORIDA 34957  
 PHONE 772-334-0868

PREPARED FOR: MICHAEL P. EBNER  
 680 FARMERS MARKET ROAD  
 FORT PIERCE, ST. LUCIE COUNTY, FLORIDA

SHEET 1 OF 1

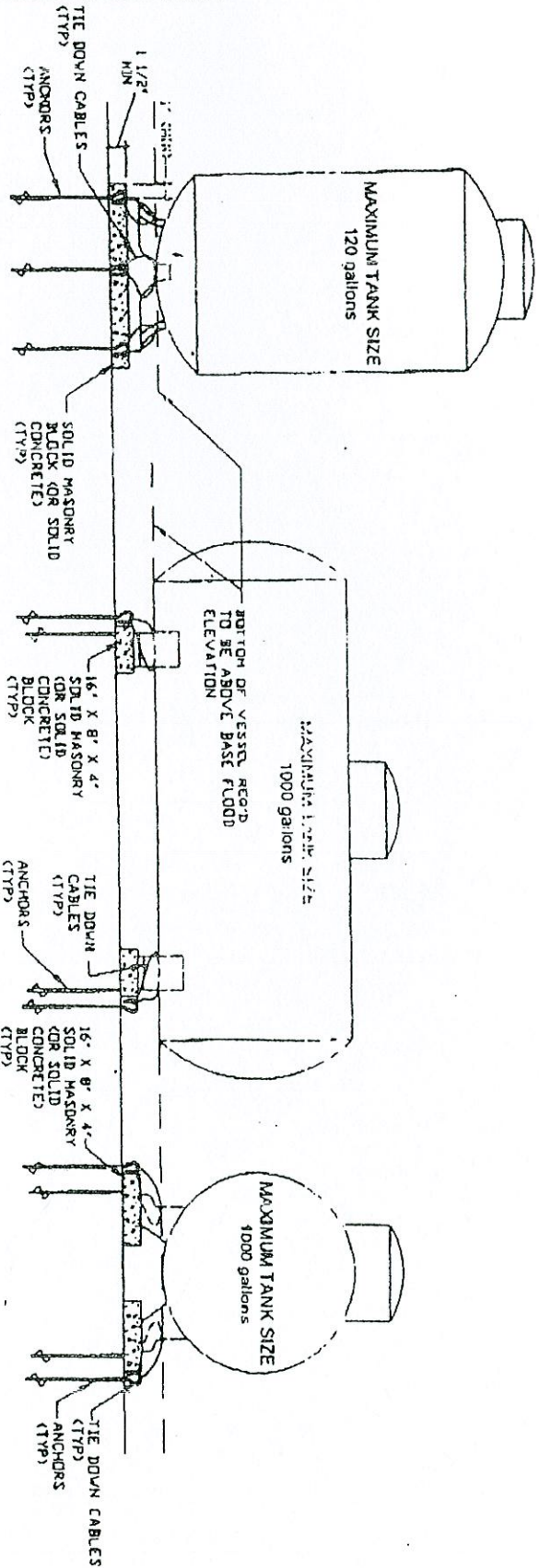
DRAWN BY: DPK  
 SCALE: 1" = 30'  
 DATE: 3/24/12  
 F.B. SKETCH  
 JOB NO. 11715

REVISIONS



# VERTICAL TANKS

# HORIZONTAL TANKS



3 ANCHORS  
1 PER FOOT (LEG)

FRONT ELEVATION  
4 ANCHORS  
1 PER FOOT (LEG)

SIDE ELEVATION  
4 ANCHORS  
1 PER FOOT (LEG)

DESIGN CRITERIA	
CODE ASCE 7-96	BASIC WIND SPEED PRESSURE = 29.95
WIND SPEED = 140 MPH	HEIGHT = 15' MAX
IMPORTANCE FACTOR = 1.0	SOIL CONDITION = SAND ONLY
EXPOSURE = B	

NOT FOR USE IN ORGANIC SOILS

ABOVE GROUND PROPANE TANK HOLD-DOWN

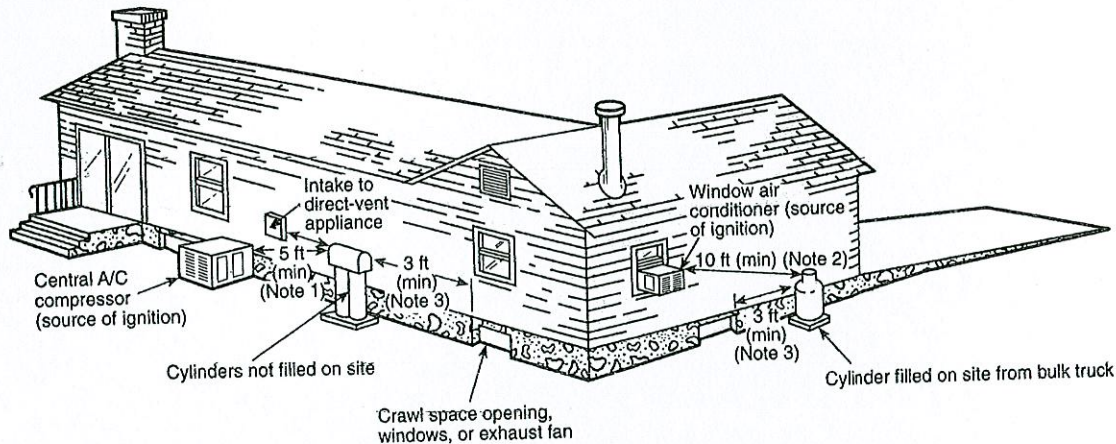
PREScriptive DESIGN FOR PERMITTING IN PALM BEACH COUNTY, APPROVED BY BCAB ACTION 7/20/05

SCALE: N.T.S.

SHEET: A-1

Appendix I Container Spacing

This appendix is not a part of the requirements of this NFPA document but is included for informational purposes only.

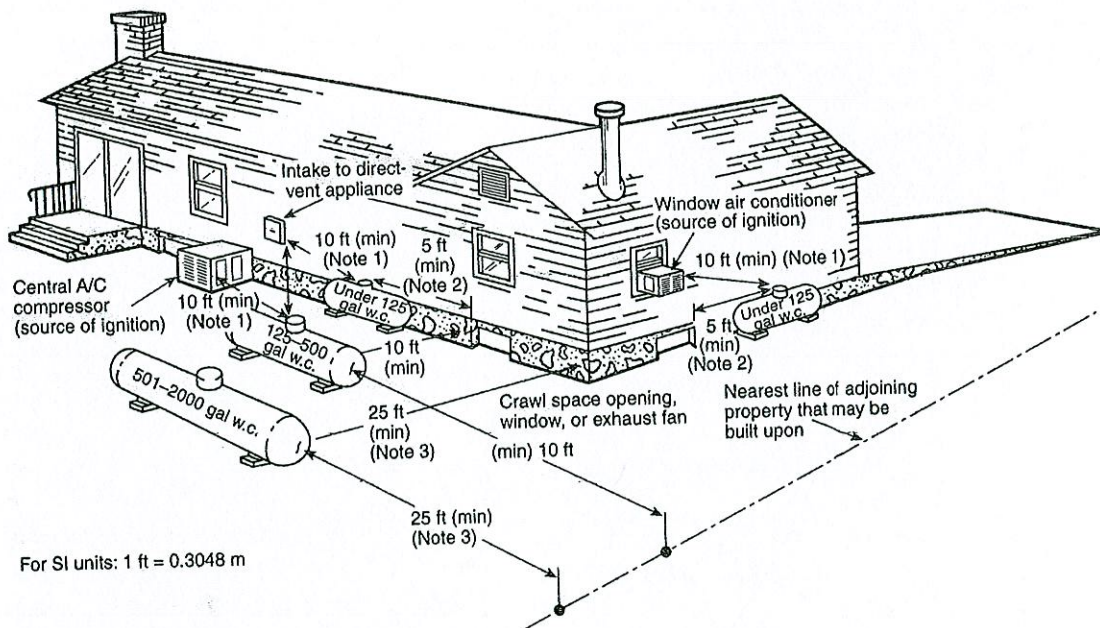


For SI units: 1 ft = 0.3048 m

Note 1: 5-ft minimum from relief valve in any direction away from any exterior source of ignition, openings into direct-vent appliances, or mechanical ventilation air intakes. Refer to 3-2.2.2(b).

Note 2: If the cylinder is filled on site from a bulk truck, the filling connection and vent valve must be at least 10 ft from any exterior source of ignition, openings into direct-vent appliances, or mechanical ventilation air intakes. Refer to 3-2.2.2(d).

Figure I-1 Cylinders.  
(This figure for illustrative purposes only; text shall govern.)



For SI units: 1 ft = 0.3048 m

Note 1: Regardless of its size, any ASME container filled on site must be located so that the filling connection and fixed maximum liquid level gauge are at least 10 ft from any exterior source of ignition (e.g., open flame, window A/C, compressor), intake to direct-vented gas appliance, or intake to a mechanical ventilation system. Refer to 3-2.2.2(d).

Note 2: Refer to 3-2.2.2(c)

Note 3: This distance may be reduced to no less than 10 ft for a single container of 1200 gal (4.5 m<sup>3</sup>) water capacity or less, provided such container is at least 25 ft from any other LP-Gas container of more than 125 gal (0.5 m<sup>3</sup>) water capacity. Refer to 3-2.2.2(e).

Figure I-2 Aboveground ASME containers.  
(This figure for illustrative purposes only; text shall govern.)

TABLE 402.4(25)  
SCHEDULE 40 METALLIC PIPE

Gas	Undiluted Propane
Inlet Pressure	2.0 psi
Pressure Drop	1.0 psi
Specific Gravity	1.50

INTENDED USE		Pipe sizing between 2 psig service and line pressure regulator.							
		PIPE SIZE (inch)							
Nominal	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Actual ID	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026
Length (ft)	Capacity in Thousands of Btu per Hour								
10	2,680	5,590	10,500	21,600	32,400	62,400	99,500	176,000	359,000
20	1,840	3,850	7,240	14,900	22,300	42,900	68,400	121,000	247,000
30	1,480	3,090	5,820	11,900	17,900	34,500	54,900	97,100	198,000
40	1,260	2,640	4,980	10,200	15,300	29,500	47,000	83,100	170,000
50	1,120	2,340	4,410	9,060	13,600	26,100	41,700	73,700	150,000
60	1,010	2,120	4,000	8,210	12,300	23,700	37,700	66,700	136,000
70	934	1,950	3,680	7,550	11,300	21,800	34,700	61,400	125,000
80	869	1,820	3,420	7,020	10,500	20,300	32,300	57,100	116,000
90	815	1,700	3,210	6,590	9,880	19,000	30,300	53,600	109,000
100	770	1,610	3,030	6,230	9,330	18,000	28,600	50,600	103,000
125	682	1,430	2,690	5,520	8,270	15,900	25,400	44,900	91,500
150	618	1,290	2,440	5,000	7,490	14,400	23,000	40,700	82,900
175	569	1,190	2,240	4,600	6,890	13,300	21,200	37,400	76,300
200	529	1,110	2,080	4,280	6,410	12,300	19,700	34,800	71,000
250	469	981	1,850	3,790	5,680	10,900	17,400	30,800	62,900
300	425	889	1,670	3,440	5,150	9,920	15,800	27,900	57,000
350	391	817	1,540	3,160	4,740	9,120	14,500	25,700	52,400
400	364	760	1,430	2,940	4,410	8,490	13,500	23,900	48,800
450	341	714	1,340	2,760	4,130	7,960	12,700	22,400	45,800
500	322	674	1,270	2,610	3,910	7,520	12,000	21,200	43,200
550	306	640	1,210	2,480	3,710	7,140	11,400	20,100	41,100
600	292	611	1,150	2,360	3,540	6,820	10,900	19,200	39,200
650	280	585	1,100	2,260	3,390	6,530	10,400	18,400	37,500
700	269	562	1,060	2,170	3,260	6,270	9,990	17,700	36,000
750	259	541	1,020	2,090	3,140	6,040	9,630	17,000	34,700
800	250	523	985	2,020	3,030	5,830	9,300	16,400	33,500
850	242	506	953	1,960	2,930	5,640	9,000	15,900	32,400
900	235	490	924	1,900	2,840	5,470	8,720	15,400	31,500
950	228	476	897	1,840	2,760	5,310	8,470	15,000	30,500
1,000	222	463	873	1,790	2,680	5,170	8,240	14,600	29,700
1,100	210	440	829	1,700	2,550	4,910	7,830	13,800	28,200
1,200	201	420	791	1,620	2,430	4,680	7,470	13,200	26,900
1,300	192	402	757	1,550	2,330	4,490	7,150	12,600	25,800
1,400	185	386	727	1,490	2,240	4,310	6,870	12,100	24,800
1,500	178	372	701	1,440	2,160	4,150	6,620	11,700	23,900
1,600	172	359	677	1,390	2,080	4,010	6,390	11,300	23,000
1,700	166	348	655	1,340	2,010	3,880	6,180	10,900	22,300
1,800	161	337	635	1,300	1,950	3,760	6,000	10,600	21,600
1,900	157	327	617	1,270	1,900	3,650	5,820	10,300	21,000
2,000	152	318	600	1,230	1,840	3,550	5,660	10,000	20,400

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa, 1-inch water column = 0.2488 kPa,  
1 British thermal unit per hour = 0.2931 W, 1 cubic foot per hour = 0.0283 m<sup>3</sup>/h, 1 degree = 0.01745 rad.

Note: All table entries have been rounded to three significant digits.

TABLE 402.4(26)  
SCHEDULE 40 METALLIC PIPE

Gas	Undiluted Propane
Inlet Pressure	11.0 in. w.c.
Pressure Drop	0.5 in. w.c.
Specific Gravity	1.50

INTENDED USE	Pipe sizing between single- or second-stage (low pressure) regulator and appliance.								
PIPE SIZE (inch)									
Nominal	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Actual ID	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026
Length (ft)	Capacity in Thousands of Btu per Hour								
10	291	608	1,150	2,350	3,520	6,790	10,800	19,100	39,000
20	200	418	787	1,620	2,420	4,660	7,430	13,100	26,800
30	160	336	632	1,300	1,940	3,750	5,970	10,600	21,500
40	137	287	541	1,110	1,660	3,210	5,110	9,030	18,400
50	122	255	480	985	1,480	2,840	4,530	8,000	16,300
60	110	231	434	892	1,340	2,570	4,100	7,250	14,800
80	101	212	400	821	1,230	2,370	3,770	6,670	13,600
100	94	197	372	763	1,140	2,200	3,510	6,210	12,700
125	89	185	349	716	1,070	2,070	3,290	5,820	11,900
150	84	175	330	677	1,010	1,950	3,110	5,500	11,200
175	74	155	292	600	899	1,730	2,760	4,880	9,950
200	67	140	265	543	814	1,570	2,500	4,420	9,010
250	62	129	243	500	749	1,440	2,300	4,060	8,290
300	58	120	227	465	697	1,340	2,140	3,780	7,710
350	51	107	201	412	618	1,190	1,900	3,350	6,840
400	46	97	182	373	560	1,080	1,720	3,040	6,190
450	42	89	167	344	515	991	1,580	2,790	5,700
500	40	83	156	320	479	922	1,470	2,600	5,300
550	37	78	146	300	449	865	1,380	2,440	4,970
600	35	73	138	283	424	817	1,300	2,300	4,700
650	33	70	131	269	403	776	1,240	2,190	4,460
700	32	66	125	257	385	741	1,180	2,090	4,260
750	30	64	120	246	368	709	1,130	2,000	4,080
800	29	61	115	236	354	681	1,090	1,920	3,920
850	28	59	111	227	341	656	1,050	1,850	3,770
900	27	57	107	220	329	634	1,010	1,790	3,640
950	26	55	104	213	319	613	978	1,730	3,530
1,000	25	53	100	206	309	595	948	1,680	3,420
1,100	25	52	97	200	300	578	921	1,630	3,320
1,200	24	50	95	195	292	562	895	1,580	3,230
1,300	23	48	90	185	277	534	850	1,500	3,070
1,400	22	46	86	176	264	509	811	1,430	2,930
1,500	21	44	82	169	253	487	777	1,370	2,800
1,600	20	42	79	162	243	468	746	1,320	2,690
1,700	19	40	76	156	234	451	719	1,270	2,590
1,800	19	39	74	151	226	436	694	1,230	2,500
1,900	18	38	71	146	219	422	672	1,190	2,420
2,000	18	37	69	142	212	409	652	1,150	2,350

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa, 1-inch water column = 0.2488 kPa,  
1 British thermal unit per hour = 0.2931 W, 1 cubic foot per hour = 0.0283 m<sup>3</sup>/h, 1 degree = 0.01745 rad.

Note: All table entries have been rounded to three significant digits.

TABLE 402.4(31)  
CORRUGATED STAINLESS STEEL TUBING (CSST)

Gas	Undiluted Propane
Inlet Pressure	2.0 psi
Pressure Drop	1.0 psi
Specific Gravity	1.50

INTENDED USE: SIZING BETWEEN 2 PSI SERVICE AND THE LINE PRESSURE REGULATOR														
Flow Designation	TUBE SIZE (EHD)													
	13	15	18	19	23	25	30	31	37	39	46	48	60	62
Length (ft)	Capacity in Thousands of Btu per Hour													
10	426	558	927	1,110	1,740	2,170	4,100	4,720	7,130	7,958	15,200	16,800	29,400	34,200
25	262	347	591	701	1,120	1,380	2,560	2,950	4,560	5,147	9,550	10,700	18,800	21,700
30	238	316	540	640	1,030	1,270	2,330	2,690	4,180	4,719	8,710	9,790	17,200	19,800
40	203	271	469	554	896	1,100	2,010	2,320	3,630	4,116	7,530	8,500	14,900	17,200
50	181	243	420	496	806	986	1,790	2,070	3,260	3,702	6,730	7,610	13,400	15,400
75	147	196	344	406	663	809	1,460	1,690	2,680	3,053	5,480	6,230	11,000	12,600
80	140	189	333	393	643	768	1,410	1,630	2,590	2,961	5,300	6,040	10,600	12,200
100	124	169	298	350	578	703	1,260	1,450	2,330	2,662	4,740	5,410	9,530	10,900
150	101	137	245	287	477	575	1,020	1,180	1,910	2,195	3,860	4,430	7,810	8,890
200	86	118	213	248	415	501	880	1,020	1,660	1,915	3,340	3,840	6,780	7,710
250	77	105	191	222	373	448	785	910	1,490	1,722	2,980	3,440	6,080	6,900
300	69	96	173	203	343	411	716	829	1,360	1,578	2,720	3,150	5,560	6,300
400	60	82	151	175	298	355	616	716	1,160	1,376	2,350	2,730	4,830	5,460
500	53	72	135	158	268	319	550	638	1,030	1,237	2,100	2,450	4,330	4,880

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa, 1-inch water column = 0.2488 kPa,  
1 British thermal unit per hour = 0.2931 W, 1 cubic foot per hour = 0.0283 m<sup>3</sup>/h, 1 degree = 0.01745 rad.

Notes:

1. Table does not include effect of pressure drop across the line regulator. Where regulator loss exceeds 1/2 psi (based on 13 in. w.c. outlet pressure), DO NOT USE THIS TABLE. Consult with the regulator manufacturer for pressure drops and capacity factors. Pressure drops across a regulator may vary with flow rate.
2. CAUTION: Capacities shown in the table might exceed maximum capacity for a selected regulator. Consult with the regulator or tubing manufacturer for guidance.
3. Table includes losses for four 90-degree bends and two end fittings. Tubing runs with larger numbers of bends and/or fittings shall be increased by an equivalent length of tubing to the following equation:  $L = 1.3n$  where  $L$  is additional length (feet) of tubing and  $n$  is the number of additional fittings and/or bends.
4. EHD—Equivalent Hydraulic Diameter, which is a measure of the relative hydraulic efficiency between different tubing sizes. The greater the value of EHD, the greater the gas capacity of the tubing.
5. All table entries have been rounded to three significant digits.

**TABLE 402(2) -- LP-GAS**  
**MAXIMUM CAPACITY OF POLYETHYLENE PLASTIC IN THOUSANDS OF BRU PER HOUR**  
**FOR GAS PRESSURE OF 10 psi AND A PRESSURE DROP OF 1 psi**  
**SIZING BETWEEN FIRST STAGE (HIGH PRESSURE REGULATOR) AND SECOND STAGE (LOW PRESSURE REGULATOR)**  
**(BASED ON A 1.52 SPECIFIC GRAVITY GAS)**

Plastic Pipe Length (Feet)	Plastic pipe nominal outside diameter (NOD) (dimensions in parentheses are inside diameter)					
	1/2 inch SDR 9.95 (0.888)	3/4 inch SDR 11.0 (0.938)	1 inch SDR 11.00 (1.077)	1 1/4 inch SDR 16.00 (1.328)	1 1/2 inch SDR 11.00 (1.584)	2 inch SDR 11.00 (1.843)
30	2143	4292	7744	13416	20260	36402
40	1839	3673	6628	11482	17340	31153
50	1626	3256	5874	10176	15368	27612
60	1473	2950	5323	9220	13924	25019
70	1355	2714	4894	8483	12810	23017
80	1261	2525	4533	7891	11918	21413
90	1183	2369	4274	7404	11182	20091
100	1117	2238	4037	6994	10562	18978
125	990	1983	3578	6199	9361	16820
150	897	1797	3242	5616	8482	15240
175	826	1655	2983	5167	7803	14020
200	778	1539	2775	4807	7259	13043
225	721	1443	2603	4510	6811	12238
250	681	1363	2469	4260	6434	11560
275	646	1294	2336	4046	6111	10978
300	617	1235	2228	3860	5830	10474
350	567	1136	2050	3551	5363	9836
400	528	1057	1907	3304	4989	9065
450	493	992	1789	3100	4681	8411
500	460	937	1690	2928	4422	7945
600	424	849	1531	2633	4007	7199
700	390	781	1409	2441	3696	6623
800	363	726	1311	2271	3429	6161
900	340	682	1230	2131	3217	5781
1000	322	644	1162	2012	3039	5461
1500	258	517	933	1616	2441	4385
2000	221	463	798	1383	2089	3753

Gas Riser  
Propane Hybrid system  
10 PSI 2 PSI 11" W.C.

