

SPFC MECHANIC A/C SMOKE REMOVAL CALCULATIONS

- HAZARD CLASS III
- STORAGE HGT -20 FT.
- VENT AREA TO FLOOR RATIO 1:100
- FLOOR AREA = 40,000
- AV = VENT AREA = 400 SF
- VOLUME OF AIR MOVEMENT
 $V = Av \times 300$
 $= 400 \times 300 = 120,000 \text{ CFM}$
- NO FAN LARGER THAN 30,000 CFM
- 6 = 42" W/ 3 HP MOTOR @ 230 RPM
 $= 20,565 \text{ CFM EACH}$
 $= 123,390 \text{ CFM TOTAL}$

FANS TO BE CONTROLLED SO THAT THEY MAY BE RUN OR SHUT DOWN INDEPENDENTLY OF BUILDING SHUNT TRIP.
 FANS TO BE TIED INTO BUILDING FIRE ALARM SYSTEM.

SQUARE FOOTAGE

OFFICES	3918 SF.
FUTURE TENANT SPACE	5048
WAREHOUSE	31034
TOTAL	40,000 SF.

WAREHOUSE FLOOR PLAN 1/16"=1'-0"

DOOR SCHEDULE

NO.	DOOR SIZE	MATERIALS				REMARKS	HARDWARE SET
		DOOR	FRAME	THK	JB SILL		
1	3'-0" x 7'-0"	ALUM	ALUM	1 3/4"		STOREFRONT DOOR w/ 36" SIBELITE D.B. w/ KEY LOCK	D.B. w/ KEY LOCK
2	3'-0" x 7'-0"	MTL	MTL	1 3/4"		SELF-CLOSING HINGES	D.B. w/ KEY LOCK
3	2'-0" x 14'-0"	MTL	STEEL	...		ROLL-UP DOOR	KEY LOCK
4	3'-0" x 6'-0"	MTL	MTL	1 3/4"			D.B. w/ KEY LOCK
5	3'-0" x 6'-0"	MTL	MTL	1 3/4"			D.B. w/ KEY LOCK
6	3'-0" x 6'-0"	S-C WOOD	WOOD	1 3/4"			
7	3'-0" x 6'-0"	S-C WOOD	WOOD	1 3/4"			
8	3'-0" x 6'-0"	S-C WOOD	WOOD	1 3/4"			LOCKABLE
9	2'-0" x 6'-0"	S-C WOOD	WOOD	1 3/4"			LOCKABLE
10	FR 2'-0" x 6'-0"	WOOD	WOOD	...		LOUVERED SHROUD	
11	3'-0" x 7'-0"	ALUM	ALUM	1 3/4"		STOREFRONT DOOR w/ 36" SIBELITE D.B. w/ KEY LOCK	D.B. w/ KEY LOCK
12	10'-0" x 10'-0"	MTL	STEEL	...		ROLL-UP DOOR	

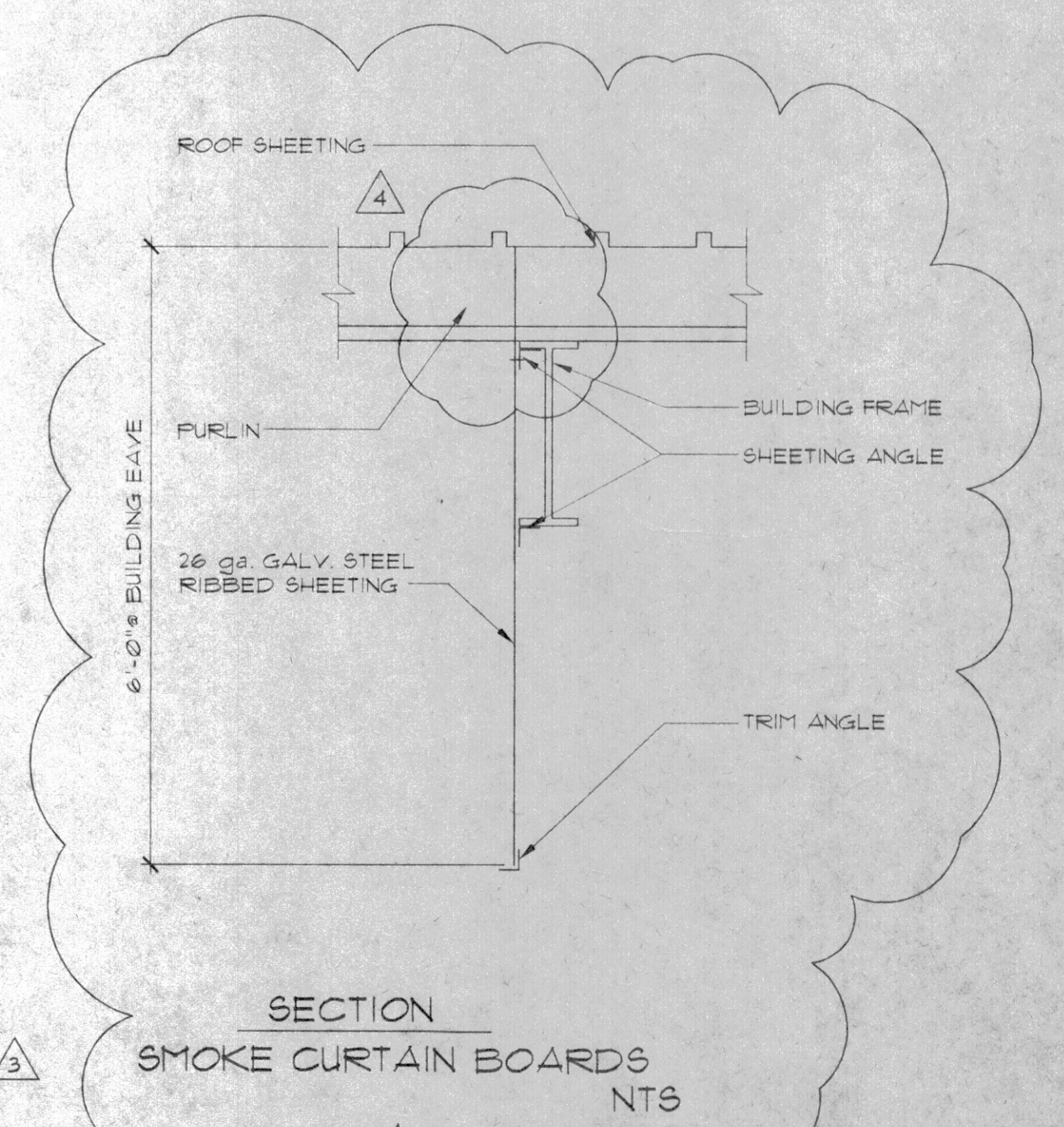
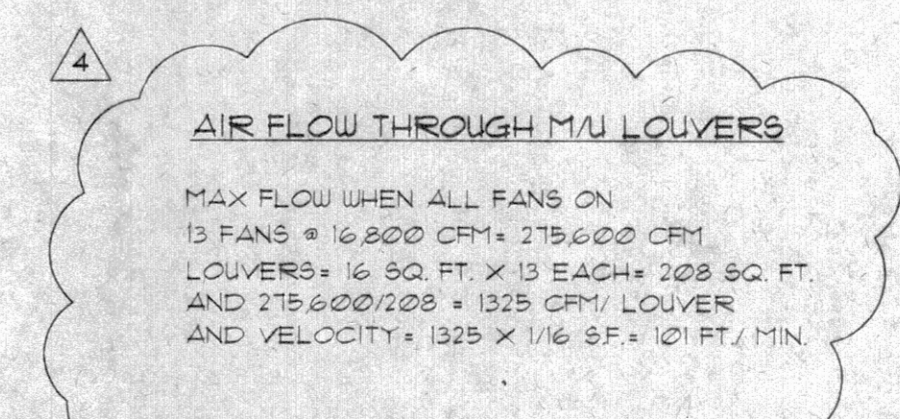
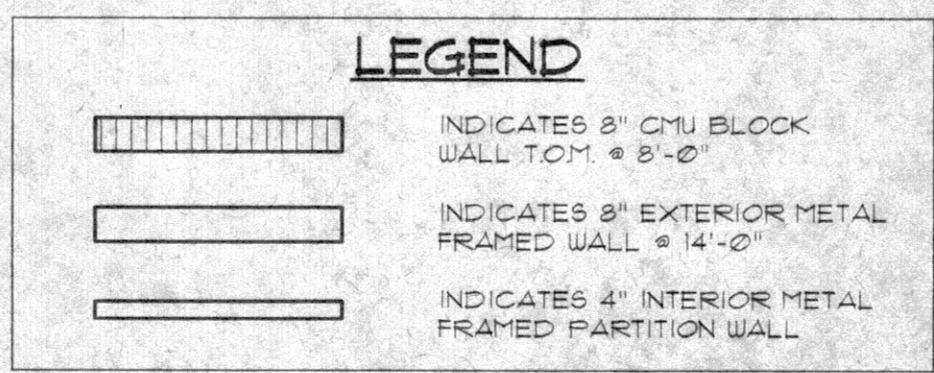
DESIGN CRITERIA FOR OVERHEAD DOORS

GARAGE OVER-HEAD DOORS SHALL BE CAPABLE OF WITHSTANDING POSITIVE AND NEGATIVE WIND PRESSURES AS DETERMINED BY SEC 1606. EACH ASSEMBLY SHALL BE TESTED FOR A TIME PERIOD EQUAL TO 36 SECONDS (3600/V WHERE V = 100 MPH FIG 1606). THE TIME PERIOD SHALL INCLUDE A 10 SECOND PERIOD AT A LOAD EQUAL TO 15 TIMES THE DESIGN PRESSURE.

VELOCITY PRESSURE FOR DESIGN SHALL BE 21 psf FOR UP TO 15 FOOT HIGH MEAN BUILDING HEIGHT.

VELOCITY PRESSURE FOR DESIGN SHALL BE 23 psf FOR 15 TO 20 FOOT HIGH MEAN BUILDING HEIGHT.

Note: Eave height may be substituted for mean building height if the roof angle is less than 1 in 10.



NOTE: DOORS SHALL HAVE HARDWARE ACCORDING TO FL STATUTE CHAP. 553 PART XV FL ACCESSIBILITY CODE 4.13.9

HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

NOTE: THIS BUILDING TO BE EQUIPPED WITH FIRE SPRINKLERS

BUILDING TYPE: IV (WAREHOUSE)
 CONTENTS: COMBUSTIBLE
 ROOF: LIVELOAD: 20 PSF
 FLOOR: LIVELOAD: 50 PSF OFFICES, 100 PSF OTHER
 WIND LOAD: 120 MPH - PRESSURE: 21.2 PSF

PROJECT PLAYTIME TOYS NEW WAREHOUSE

SHEET TITLE WAREHOUSE FL. PLAN

OWNER REVISIONS

NO.	DATE	DESCRIPTION
1	4/9/01	REV. PER O.C. BLDG. & F.D. COMMENTS
2	3/5/01	FANS RELOCATED TO ROOF
3	2/7/01	REV. PER O.C. BLDG. & F.D. COMMENTS
4	1/10/01	SMOKE CURTAIN BOARDS ADDED
5	1/10/01	REVISIONS PER O.C. BLDG. & F.D. COMMENTS
6	12/1/00	REV. REVISIONS AS PER O.C. COMMENTS

DATE 10-06-00

DESIGN M.C.D. **DRAWN** LA

CHECKED R. MONTA

DWG. No. 0032-1A1

JOB No. 200032

SCALE 1/16"=1'-0"

DATE 10-06-00

PROJECT PLAYTIME TOYS NEW WAREHOUSE

MONTE CONSULTING & DESIGN

237 S. WESTMONTE DR., SUITE 210
 ALCAMONTE SPRINGS, FL 32714
 PHONE: (407) 681-1917

MCD INC.

ROBERT M. MONTA, P.E.
 FLORIDA REG. NO. 33709

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