

PROTECTION CRITERIA LEGEND BASED ON 2010 NFPA 13

OCCUPANCY CLASSIFICATION	DENSITY	HOSE ALLOWANCE (GPM)	MAXIMUM SPRINKLER SPACING (SQ FT)	DESIGN BASIS
SALES FLOOR (ORDINARY HAZARD GROUP 2)	0.30/2000 SQ FT	500	100	CLASS I-III ON BACK-TO-BACK SHELF TO 12'-0"; 13' TABLE 13.2.1 AND FIGURE 13.2.1; OWNER ELECTED DENSITY
TENANT SPACE/DELPHARMACY/OFFICES (ORDINARY HAZARD GROUP 2)	0.20/1500 SQ FT	250	130	CLASS I-IV TO 10'-0"; 13' TABLE 13.2.1 AND FIGURE 13.2.1
RECEIVING AREA (RACK STORAGE)	0.35/2000 SQ FT	500	100	CLASS I-IV TO 12'-0"; NONENCAPSULATED, CEILING SPRINKLERS ONLY 13' FIGURE 16.2.1.3.2(6) CURVE G FOR 4 FT AISLES, HIGH TEMP SPRINKLERS, FIGURE 16.2.1.3.4.1 APPLIES AND TABLE 11.2.3.1.2
RESTROOMS/BREAKROOMS (LIGHT HAZARD)	0.10/1500 SQ FT	100	225	LIGHT HAZARD, 13' 11.2.3.1.1, FIGURE 11.2.3.1.1
ENTRY VESTIBULES/CART STORAGE/EXTERIOR CANOPY (ORDINARY HAZARD GROUP 1)	0.15/ENTIRE AREA	250	256 (16' X 16')	ORDINARY HAZARD GROUP 1 (NO STORAGE), 13' 11.2.3.1.1, FIGURE 11.2.3.1.1 AND TABLE 11.2.3.1.2
COOLERS/FREEZERS (RACK STORAGE)	0.20/ENTIRE AREA	250	130	CLASS I-III ON SINGLE ROW RACK, 13' TABLE 13.2.1 AND FIGURE 13.2.1

SPRINKLER SYMBOL LEGEND

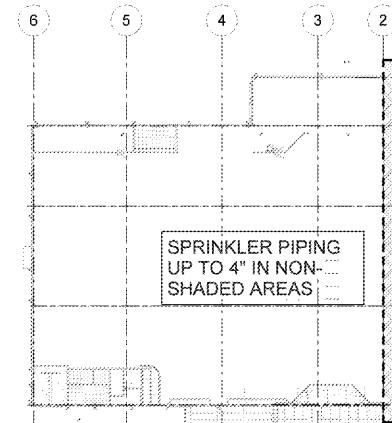
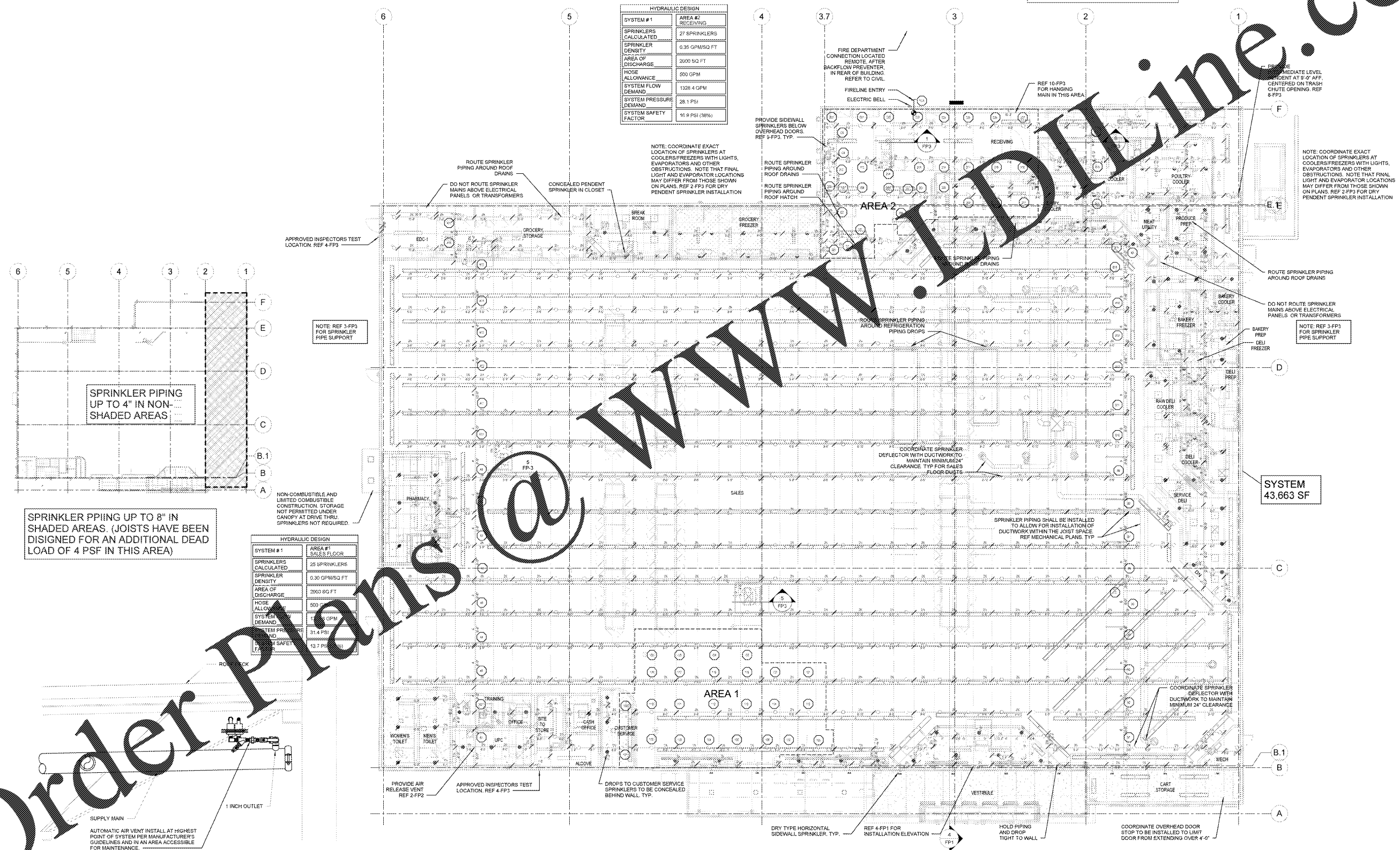
SYMBOL	SIZE	MFR	MAKE	S.I.N.	FINISH	STYLE	TEMP	K-FACTOR	TOTAL
○	3/4"	TYCO	ELO-231E	TY5151	BRASS	UPRIGHT	200	11.2	375
○	3/4"	TYCO	ELO-231E	TY5151	BRASS	UPRIGHT	200	11.2	72
●	1/2"	TYCO	TY-FRB	TY323	WHITE	RECESSED STYLE 10	155	5.6	71
●	1/2"	TYCO	TY-FRB	TY323	WHITE	RECESSED STYLE 10	200	5.6	5
⊙	1/2"	TYCO	TY-B	TY3251	BRASS	INTERPENDENT	200	5.6	1
⊙	1/2"	TYCO	TY-B	TY3251	BRASS	HSW	200	5.6	3
⊙	1"	TYCO	DB-3	TY5336	WHITE	DRY HSW	200	11.2	
⊙	1"	TYCO	DB-C	TY3355	WHITE	DRY CONCEAL	200	5.6	4
⊙	1/2"	TYCO	RFII	TY3531	WHITE	CONCEAL PENDENT			3

CONTRACTOR MAY SUBSTITUTE SPRINKLERS OF SAME SIZE, K-FACTOR AND TEMPERATURE CLASSIFICATION UNLESS PROHIBITED BY THE SPECIFICATIONS.

PROVIDE 6 SALES FLOOR TYPE SPRINKLERS, 2 DRY PENDENT SPRINKLERS, AND 2 OTHER TYPES OF SPRINKLERS PRESENT, TO BE LOCATED IN SPRINKLER ROOM, 1-FP3.

HYDRAULIC DESIGN

SYSTEM # 1	AREA #2
SPRINKLERS CALCULATED	27 SPRINKLERS
SPRINKLER DENSITY	0.35 GPM/SQ FT
AREA OF DISCHARGE	2000 SQ FT
HOSE ALLOWANCE	500 GPM
SYSTEM FLOW DEMAND	1328.4 GPM
SYSTEM PRESSURE DEMAND	28.1 PSI
SYSTEM SAFETY FACTOR	16.9 PSI (38%)



SPRINKLER PIPING UP TO 8" IN SHADED AREAS. (JOISTS HAVE BEEN DESIGNED FOR AN ADDITIONAL DEAD LOAD OF 4 PSF IN THIS AREA)

HYDRAULIC DESIGN

SYSTEM # 1	AREA #1
SPRINKLERS CALCULATED	25 SPRINKLERS
SPRINKLER DENSITY	0.30 GPM/SQ FT
AREA OF DISCHARGE	2000 SQ FT
HOSE ALLOWANCE	500 GPM
SYSTEM FLOW DEMAND	1170 GPM
SYSTEM PRESSURE DEMAND	31.4 PSI
SYSTEM SAFETY FACTOR	13.7 PSI (30%)

2 AIR RELEASE VENT
NTS

1 FIRE SPRINKLER PLAN
3/32" = 1'-0"
SCALE 3/32"=1'-0"

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STIPULATION FOR THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS AND TO BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS AND TO BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED.

MPW
MPW ENGINEERING, LLC
1100 S. W. 10TH AVE., SUITE 100
MIAMI, FL 33135
TEL: 305.441.1000
WWW.MPWENGINEERING.COM

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ISSUE BLOCK

DATE	REV #	DESCRIPTION
03/10/17	REV #3	
03/27/17	REV #4	
04/07/17	REV #5	

CHECKED BY: BMA
DRAWN BY: RJS
FILE NAME: FP2
PROTO CYCLE: 10/28/16
DOCUMENT DATE: 01/09/17

BID SET. NOT FOR CONSTRUCTION

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OVERALL FIRE SPRINKLER PLAN

SHEET: **FP2**