PROTECTION CRITERIA LEGEND

OCCUPANCY CLASSIFICATION	DISCHARGE PRESSURE (# OPERATING SPRINKLERS - DESIGN AREA)	HOSE ALLOWANCE (GPM)	MAXIMUM SPRINKLER SPACING (SQ FT)	DESIGN BASIS
SALES FLOOR (RNC - OPTION 2B)	25 PSI (2 AS-2S/1L) 10 PSI (12 AS-4S/3L)	250	140	CLASS I-IV ON SHELF TO 12'-0" (25'-0" CEILING HEIGHT); 5'-0" AISLES; UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST GONDOLA 10041702
INTERIOR GARDEN CENTER (SH - OPTION 2A)	30 PSI (2 AS-2S/1L) 21 PSI (8 AS-4S/2L) 15 PSI (12 AS-4S/3L)	250	140	CLASS I-IV ON SHELF TO 12'-0" (25'-0" CEILING HEIGHT); 5'-0" AISLES; UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST SRR 06151702
STOCKROOM -GM/GR (SL - OPTION 4)	12 PSI (2 AS-2S/1L) 7 PSI (12 AS-4S/3L)	250	100	CLASS I-IV RACK STORAGE TO 15'-0" (18'-0" CEILING HEIGHT), 4'-0"/7'-6" AISLES; UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TESTS SRR 04191702 / DRR 09191702
STOCKROOM -GM/GR (SL - OPTION 4)	12 PSI (2 AS-2S/1L) 7 PSI (12 AS-4S/3L)	250	100	CLASS I-IV RACK STORAGE TO 12'-0" (18'-0" CEILING HEIGHT), 0'-6" AISLES; UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST MRR 09211702
STOCKROOM -GM/GR (SL - OPTION 4)	12 PSI (2 AS-2S/1L) 7 PSI (12 AS-4S/3L)	250	100	CLASS I-IV RACK STORAGE TO 15'-0" (22'-0" CEILING HEIGHT), 7'-6" AISLES; UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST DRR 09261702
AUTOMATED EQUIPMENT	0.45/ENTIRE AREA	500	100	CLASS I-IV TO 16'-0, NONENCAPSULATED; 13: FIGURE 16.2.3.2(d) CURVE G, FIGURE 16.2.1.3.4.1, HIGH TEMP SPRINKLER, OWNER ELECTED DENSITY
HEALTH SERVICES ROOM (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
BREAKROOM	EXISTING	EXISTING	225	EXISING PROTECTION CRITERIA

RC = RETAIL CEILING/RNC = RETAIL NO CEILING
SL = STORAGE LOW/SH = STORAGE HIGH
REFERENCE SPRINKLER PLANS AND SPRINKLER SYMBOL LEGEND FOR SPRINKLERS NECESSARY TO MEET THE DESIGN REQUIREMENTS

SRR = SINGLE ROW RACK
DRR = DOUBLE ROW RACK
MRR = MULTIPLE ROW RACK

KEYNOTES

13.975 DROP 1" PIPE TO 12" ABOVE AUTOMATED EQUIPMENT. CONNECT SEMI-RECESSED PENDENT SPRINKLER TO 4'-0" FLEXIBLE DROP. REF 2-FP3. CONNECT TO NEAREST BRANCHLINE.

13.976 REPLACE EXISTING SPRINKLER WITH NEW TYCO 11.2K SPRINKLERS. REFERENCE FP1 SPRINKLER LEGEND FOR SPECIFIC NEW SPRINKLERS TO BE INSTALLED.

13.977 REPLACE EXISTING UPRIGHT SPRINKLER WITH NEW TYCO 16.8K SPRINKLERS. REFERENCE FP1 SPRINKLER LEGEND FOR SPECIFIC NEW SPRINKLERS TO BE INSTALLED.

13.980 PROVIDE NEW UPRIGHT SPRINKLERS AS SHOWN. ALIGN WITH EXISTING SPRINKLERS AND COORDINATE WITH NEW AND EXISTING EQUIPMENT AND WALLS TO MEET SPACING REQUIREMENTS.

13.995 PROVIDE AIR VENT ON THE HIGHEST POINT OF THE SYSTEM, PREFERABLY ON THE MAIN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE HIGHEST POINT OF EACH SYSTEM AND INSTALLING THE AIR VENT IN AN ACCESSIBLE LOCATION. REF 1-FP3.

HYDRAULIC DESIGN	
SYSTEM # 1 AREA #B	GR STOCKROOM
SPRINKLERS CALCULATED	12 SPRINKLERS
SPRINKLER PRESSURE	7 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	802 GPM
SYSTEM PRESSURE DEMAND @ SRC	57.3 PSI
SYSTEM SAFETY FACTOR	9.0 PSI

HYDRAULIC DESIGN	
SYSTEM # 1 AREA #B	GR STOCKROOM
SPRINKLERS CALCULATED	2 SPRINKLERS
SPRINKLER PRESSURE	12 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	366 GPM
SYSTEM PRESSURE DEMAND @ SRC	34.1 PSI
SYSTEM SAFETY FACTOR	35.0 PSI

HYDRAULIC DESIGN	
SYSTEM # 1 AREA #C	SALES
SPRINKLERS CALCULATED	12 SPRINKLERS
SPRINKLER PRESSURE	10 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	676 GPM
SYSTEM PRESSURE DEMAND @ SRC	46.2 PSI
SYSTEM SAFETY FACTOR	21.1 PSI

HYDRAULIC DESIGN	
SYSTEM # 1 AREA #C	SALES
SPRINKLERS CALCULATED	2 SPRINKLERS
SPRINKLER PRESSURE	25 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	362 GPM
SYSTEM PRESSURE DEMAND @ SRC	45.0 PSI
SYSTEM SAFETY FACTOR	24.1 PSI

HYDRAULIC DESIGN	
SYSTEM # 1 AREA #L	SALES
SPRINKLERS CALCULATED	12 SPRINKLERS
SPRINKLER PRESSURE	10 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	535 GPM
SYSTEM PRESSURE DEMAND @ SRC	49.4 PSI
SYSTEM SAFETY FACTOR	18.9 PSI

HYDRAULIC DESIGN	
SYSTEM # 1 AREA #L	SALES
SPRINKLERS CALCULATED	2 SPRINKLERS
SPRINKLER PRESSURE	25 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	362 GPM
SYSTEM PRESSURE DEMAND @ SRC	44.2 PSI
SYSTEM SAFETY FACTOR	24.5 PSI

MEAT HOLDING COOLER
REMOTE AREA B
UL TEST 09761707
REMOTE AREA C
UL TEST 10041707
SEAFOOD FREZER
PRODUCE PREP
PRODUCE COOLER
ICE CREAM FREEZER
BAKERY COOLER
BAKERY UTILITY
BAKERY
BAKERY FREEZER
MECHANICAL PLUMBING
PICKUP TOWER
REMOTE AREA I
UL TEST 10041707
REMOTE AREA R
UL TEST 10041707
CART STORAGE
ELECTRICAL
GR OTHER INCOME
GR VESTIBULE
AP OFFICE
SMART STYLE
MONEY CENTER
COURTESY DESK
UTILITY
CASH ROOM
COUNTING ROOM
MEN
WOMEN
CORRIDOR

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

0 4' 8' 12' 16'
SCALE: 3/32"=1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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STORE NO.: 1055
139 SC GENERAL MODEL
JOB NUMBER: 1804452630

ISSUE BLOCK

CHECKED BY: NAW/JEC
DRAWN BY: NM
PROTO: 139 SC
PROTO CYCLE: 08/31/18
DOCUMENT DATE: 10/05/18

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ENLARGED FIRE SPRINKLER PLAN

SHEET: FP2

CHRISTOPHER J. CULP

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