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 1)	25 PSI (2 AS-2S/1L) 15 PSI (5 AS-4S/2L) 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 SRR 04281702
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), 5'-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
PICK UP STORAGE	12 PSI (2 AS-2S/1) 7 PSI (12 AS-4S/3L)	250	140	CLASS I-IV ON SHELF UP TO 12'-0" (UP TO 14'-0" CEILING HEIGHT), 5'-0" AISLES; UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST GONDOLA 06091702
VESTIBULES/OTHER-INCOME/OFFICES/PICK UP CHECK IN (MISCELLANEOUS STORAGE)	0.20/1500 SQ FT	250	130	CLASS I-IV TO 5'-0"; NFPA 13 TABLE 13.2.1
BREAKROOMS (LIGHT HAZARD)	0.10/1500 SQ FT	100	225	LIGHT HAZARD, NFPA 13 11.2.3.1.1 AND TABLE 11.2.3.1.2
PICKUP TOWER (AUTOMATED STORAGE)	.45/ENTIRE AREA	500	100	CLASS I-IV TO 15'-0", NONENCAPSULATED; NFPA 13 FIGURE 16.2.1.3.2(d) CURVE G, FIGURE 16.2.1.3.4.1, HIGH TEMP SPRINKLER, OWNER ELECTED DENSITY

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

13.910	REMOVE EXISTING PENDENT SPRINKLER AND ASSOCIATED PIPING. CAP REMAINING OUTLETS NOT INTENDED FOR REUSE.
13.920	EXISTING SPRINKLERS AND BRANCHLINES TO REMAIN
13.970	PROVIDE NEW PENDENT SPRINKLERS IN THIS AREA. CONNECT TO EXISTING SPRINKLER PIPING. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION. EXISTING UPRIGHT SPRINKLER PROTECTION, WHERE PROVIDED AT THE CEILING/ROOF DECK LEVEL, TO REMAIN UNLESS NOTED OTHERWISE
13.986	REPLACE EXISTING ½" UPRIGHT SPRINKLERS WITH TYCO TY5831 11.2K UPRIGHT SPRINKLERS. REFERENCE FP1 SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY FITTING(S) WHERE NEW SPRINKLERS DO NOT FIT THE EXISTING OUTLETS.
13.988	REPLACE EXISTING ½" UPRIGHT SPRINKLERS WITH TYCO TY7156 16.8K UPRIGHT SPRINKLERS. REFERENCE FP1 SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY FITTING(S) WHERE NEW SPRINKLERS DO NOT FIT THE EXISTING OUTLETS.

HYDRAULIC DESIGN		HYDRAULIC DESIGN	
SYSTEM # 1 REMOTE AREA # 8	SALES	SYSTEM # 1 REMOTE AREA # 8	SALES
SPRINKLERS CALCULATED	2 SPRINKLERS	SPRINKLERS CALCULATED	12 SPRINKLERS
SPRINKLER PRESSURE	25 PSI	SPRINKLER PRESSURE	10 PSI
HOSE ALLOWANCE	250 GPM	HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	362 GPM	SYSTEM FLOW DEMAND @ SRC	678 GPM
SYSTEM PRESSURE DEMAND @ SRC	53.3 PSI	SYSTEM PRESSURE DEMAND @ SRC	49.5 PSI
SYSTEM SAFETY FACTOR	34.2 PSI	SYSTEM SAFETY FACTOR	30.2 PSI

1 ENLARGED FIRE PROTECTION 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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CONSULTANTS
HENDERSON ENGINEERS
5201 TOWNE CROSSING BLVD. SUITE 219
PLANO, TX 75024
TEL 972.248.8988 FAX 972.248.8987
WWW.HENDERSONENGINEERS.COM
TBPE/TBAE F-3580
KC CORPORATE LIC. C-1492
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NOT FOR CONSTRUCTION

ENLARGED FIRE SPRINKLER PLAN

SHEET:
FP2.1

JAMES E. COOPER