



SPECIFICATION NOTES:

- Kroger specifications require the contractor to paint the old or threaded portion of exterior, exposed pipe to prevent corrosion.
- Protect sprinklers installed below 10 feet above finished floor, such as in coolers and freezers, under stairwells, or any other area where they might receive mechanical damage with approved guarding.
- All control valves are required to be locked in the "OPEN" position per Section 21 Part 3.2 (4).
- A placard shall be attached to each sprinkler system riser to indicate the design basis and water demand.
- Provide red enamel steel identification sign on all control and drain valves in the system.
- System Zone Drawing: Indicate sprinkler Zone coverage. Title the drawing "Fire Protection Sprinkler System". Indicate the location of shut-offs, inspector's test drains and valves. Provide in a wood frame with Plexiglass cover.
- Provide a sprinkler cabinet containing spare sprinklers and equipment in accordance NFPA. The stock of spare sprinklers shall include all types and ratings including dry.

KEY PLAN

REMOTE AREA: SYSTEM 1 AREA 1

Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	7
K-FACTOR	11.2
TOTAL WATER REQUIRED	729.22
TOTAL PRESSURE REQUIRED	64.400
BASE OF RISER (gpm)	479.22
BASE OF RISER (psi)	33.337
SAFETY MARGIN (psi)	+15.124 (18.9%)

REMOTE AREA: SYSTEM 1 AREA 2

Hydraulic Information	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	7
K-FACTOR	11.2
TOTAL WATER REQUIRED	729.22
TOTAL PRESSURE REQUIRED	64.400
BASE OF RISER (gpm)	479.22
BASE OF RISER (psi)	33.337
SAFETY MARGIN (psi)	+15.124 (18.9%)

REMOTE AREA: SYSTEM 1 AREA 3

Hydraulic Information	
Remote Area 3	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	7
K-FACTOR	11.2
TOTAL WATER REQUIRED	729.22
TOTAL PRESSURE REQUIRED	64.400
BASE OF RISER (gpm)	479.22
BASE OF RISER (psi)	33.337
SAFETY MARGIN (psi)	+15.124 (18.9%)

REMOTE AREA: SYSTEM 1 AREA 4

Hydraulic Information	
Remote Area 4	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	7
K-FACTOR	11.2
TOTAL WATER REQUIRED	729.22
TOTAL PRESSURE REQUIRED	64.400
BASE OF RISER (gpm)	479.22
BASE OF RISER (psi)	33.337
SAFETY MARGIN (psi)	+15.124 (18.9%)

REMOTE AREA: SYSTEM 2 AREA 1

Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	11
TOTAL HEADS FLOWING	14
K-FACTOR	11.2
TOTAL WATER REQUIRED	1032.49
TOTAL PRESSURE REQUIRED	61.498
BASE OF RISER (gpm)	782.49
BASE OF RISER (psi)	43.029
SAFETY MARGIN (psi)	+16.525 (23.2%)

REMOTE AREA: SYSTEM 2 AREA 2

Hydraulic Information	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	11
TOTAL HEADS FLOWING	14
K-FACTOR	11.2
TOTAL WATER REQUIRED	1032.49
TOTAL PRESSURE REQUIRED	61.498
BASE OF RISER (gpm)	782.49
BASE OF RISER (psi)	43.029
SAFETY MARGIN (psi)	+16.525 (23.2%)

REMOTE AREA: SYSTEM 2 AREA 3

Hydraulic Information	
Remote Area 3	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	11
TOTAL HEADS FLOWING	14
K-FACTOR	11.2
TOTAL WATER REQUIRED	1032.49
TOTAL PRESSURE REQUIRED	61.498
BASE OF RISER (gpm)	782.49
BASE OF RISER (psi)	43.029
SAFETY MARGIN (psi)	+16.525 (23.2%)

REMOTE AREA: SYSTEM 2 AREA 4

Hydraulic Information	
Remote Area 4	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.200gpm/ft² for 1500.00°F (Actual 1180.00°F)
TOTAL HOSE STREAMS	11
TOTAL HEADS FLOWING	14
K-FACTOR	11.2
TOTAL WATER REQUIRED	1032.49
TOTAL PRESSURE REQUIRED	61.498
BASE OF RISER (gpm)	782.49
BASE OF RISER (psi)	43.029
SAFETY MARGIN (psi)	+16.525 (23.2%)

Hangar No. 015
Top Beam C-Clamp

Hangar No. 047
UniStrut/Top Beam C-Clamps Inverted

Sprinkler Legend

Symbol	Manufacturer	SIN/Model	Quantity	K-Factor	Type	Response	Orifice	Finish	Temperature	Note
●	TYCO	TY3231	102	5.6	Pendent	Quick	1/2"	White	155°F	WHITE POLYESTER
●	TYCO	TY5339	17	11.2	Sidewall	Standard	17/32"	Brass	200°F	DS-3 ECHO SIDEWALL
●	TYCO	TY6137	276	14	Upright	Standard	3/4"	Brass	155°F	ECHO UPRIGHT
●	TYCO	TY5811	129	11.2	Upright	Quick	1/2"	Brass	286°F	ELO-231 UPRIGHT
●	TYCO	TY3151	73	5.6	Upright	Standard	1/2"	Brass	286°F	TY-FRB UPRIGHT
●	TYCO	TY3285	63	5.6	Pendent	Standard	1"	Chrome	200°F	DS-4 DRY PENDENT
●	TYCO	TY4131	19	8	Upright	Standard	3/4"	Brass	155°F	TY-FRB UPRIGHT
●	TYCO	TY6237	7	11.2	Pendent	Quick	1/2"	White	175°F	EC-11 PENDENT
●	TYCO	TY3331	5	5.6	Sidewall	Quick	1/2"	Brass	155°F	TY-FRB SIDEWALL
●	TYCO	TY3131	57	5.6	Upright	Quick	1/2"	Brass	155°F	TY-FRB UPRIGHT
			Total =	748						

CONTRACT NAME
KROGER - FT. WORTH
12600 NORTH BEACH ST.
FT. WORTH, TEXAS

CONTRACT NO.
OVERALL PLAN

DRAWING NO.
FP5