

Order Plans

1 RISER BRACE TYPE C
NTS

NOTE: RISER BRACING REQUIRED REGARDLESS OF SEISMIC CONDITIONS.

5 HANGER #20 (2" THRU 4" PIPING)
NTS

MAIN PIPE DIAMETER	2"	3"	4"
TRAPEZE PIPE DIAMETER AND TYPE	2-1/2" SOL10	2-1/2" SOL10	2-1/2" SOL10
TRAPEZE LENGTH	8'-0"	8'-0"	8'-0"
AIR SIZE	3/8"	3/8"	3/8"

NOTE: ONLY ATTACH TRAPEZE HANGERS WITHIN 0'-6" OF THE TOP OF ANY TRUSS OR JOIST PANEL POINTS AT 15'-0" O.C. MAXIMUM. **DO NOT LOCATE WITHIN 2'-0" OF LINE PIPING**

12 TYPICAL PIPING
NOT TO SCALE

13 PART 1 SPRINKLER DROP
NTS

2 HANGER #5
NTS

NOTE: INSULATION SHALL BE COMPLETED WITH THE ROOFING CONTRACTOR PRIOR TO THE INSTALLATION OF THE CORRUGATED METAL CEILING. IT IS RECOMMENDED THAT THE PIPING BE INSTALLED AFTER CEILING IS IN PLACE TO MAINTAIN CONTACT.

6 HANGER #20 (6" & 8" MAIN PIPING)
NTS

MAIN PIPE DIAMETER	6"	8"
TRAPEZE PIPE DIAMETER AND TYPE	6" SOL10	6" SOL10
TRAPEZE LENGTH	8'-0"	8'-0"
AIR SIZE	1/2"	1/2"

NOTE: ONLY ATTACH TRAPEZE HANGERS WITHIN 0'-6" OF THE TOP OF ANY TRUSS OR JOIST PANEL POINTS AT 15'-0" O.C. MAXIMUM. **DO NOT LOCATE WITHIN 2'-0" OF LINE PIPING**

OPTION "A" INSTALLATION PROCEDURE

- CORE DRILL 2 1/2" DIAMETER HOLE IN THE FREEZER/COOLER INSULATED CEILING PANEL FROM BELOW. LOCATE HOLE AND REQUIRED SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 OBSTRUCTION CRITERIA (SSP TYPE SPRINKLERS). MAINTAIN 6" CLEARANCE FROM COOLER SEAMS.
- INSTALL DRY PENDENT SPRINKLER PER MANUFACTURERS INSTALLATION REQUIREMENTS.
- COMPLETELY SEAL ANNUULAR CEILING OPENING BETWEEN THE ESCUTCHEON AND TOP OF CEILING PANEL WITH OPEN-CELL POLYETHYLENE FOAM BACKER ROD. EXPANDED FOAM IS NOT PERMITTED.
- INJECT DOW CORNING 738 PLASTIC ADHESIVE SEALANT INTO AND AROUND THE TOP OF THE FREEZER/COOLER CEILING CORE OPENING IN ACCORDANCE WITH SEALANT MANUFACTURERS INSTRUCTIONS.

OPTION "B" INSTALLATION PROCEDURE

- CORE DRILL 2 1/2" DIAMETER HOLE IN THE FREEZER/COOLER INSULATED CEILING PANEL FROM BELOW. LOCATE HOLE AND REQUIRED SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 OBSTRUCTION CRITERIA (SSP TYPE SPRINKLERS). MAINTAIN 6" CLEARANCE FROM COOLER SEAMS.
- INSTALL TYCO DRY PENDENT SPRINKLER PER MANUFACTURERS INSTALLATION REQUIREMENTS. INSERT BOOT PRIOR TO MAKE-UP WITH PIPING.
- COMPLETELY SEAL INTERFACE BETWEEN BOOT FLANGE AND TOP OF FREEZER/COOLER PANEL WITH ADHESIVE PROVIDED WITH BOOT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- APPLY STRAP TIES ON BOOT AROUND DRY SPRINKLER BARREL PER MANUFACTURERS INSTRUCTIONS.

3 HANGER #8
NTS

NOTE: REFER TO HANGER GENERAL NOTES FOR HANGING REQUIREMENTS.

7 PIPE STAND HANGER #24
NTS

NOTE: REFER TO HANGER GENERAL NOTES FOR HANGING REQUIREMENTS.

9 AUX. DRAIN DETAIL
NTS

4 HANGER #15
NTS

TYPICAL FOR ALL HANGING IN TOWERS AND CHIMNEYS WHERE HANGING TO BE GAUGE STRUCTURAL MEMBERS.

8 HANGER #17
NTS

NOTE: REFER TO HANGER GENERAL NOTES FOR HANGING REQUIREMENTS.

10 COMPACTOR SPRINKLER
NTS

14 FREEZER/COOLER DRY PENDENT SPRINKLER
NOT TO SCALE

NOTE: CONTRACTOR TO SEAL DRY PENDENT SPRINKLERS AT FREEZER/COOLER USING ONE OF THE OPTIONS ABOVE.

14 FREEZER/COOLER DRY PENDENT SPRINKLER
NOT TO SCALE

NOTE: CONTRACTOR TO SEAL DRY PENDENT SPRINKLERS AT FREEZER/COOLER USING ONE OF THE OPTIONS ABOVE.

11 ROLL-UP DOOR
NTS

NOTE: HANGER SUPPORT ROD IS NOT TO BE SUPPORTED FROM THE DOOR TRACK. HANGER ROD MUST BE SUPPORTED FROM ROOF STRUCTURE.

11 ROLL-UP DOOR
NTS

NOTE: HANGER SUPPORT ROD IS NOT TO BE SUPPORTED FROM THE DOOR TRACK. HANGER ROD MUST BE SUPPORTED FROM ROOF STRUCTURE.

HANGER GENERAL NOTES

- INSTALLING SPRINKLER CONTRACTOR SHALL EXERCISE CAUTION WHEN FILLING SPRINKLER SYSTEM PIPING WITH AIR OR WATER TO MINIMIZE HORIZONTAL THRUST AND UNDESIRED LATERAL FORCE.
- ANY DEVIATIONS AND CHANGES MUST BE BROUGHT TO THE ATTENTION OF THE FIRE SPRINKLER CONSULTANT AND THE STRUCTURAL ENGINEER IN WRITING BEFORE CHANGES ARE MADE.
- NO PIPE HANGER SHALL BE ATTACHED TO INTERMEDIATE SUB-PURLINS OR ROOF DETOC.
- ALL HANGERS TO BE ATTACHED TO THE TOP CHORD OF STRUCTURAL MEMBERS UNLESS DETAILED OR NOTED OTHERWISE.

CONSULTANTS
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DRAWN BY: WDK
REVIEWED BY: DLW



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PROJECT TITLE
KROGER STORE R543

1050 W. Mercury Blvd
Hampton, VA 23066

COMMISSION NO: 518344
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SHEET TITLE:

FIRE PROTECTION DETAILS

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