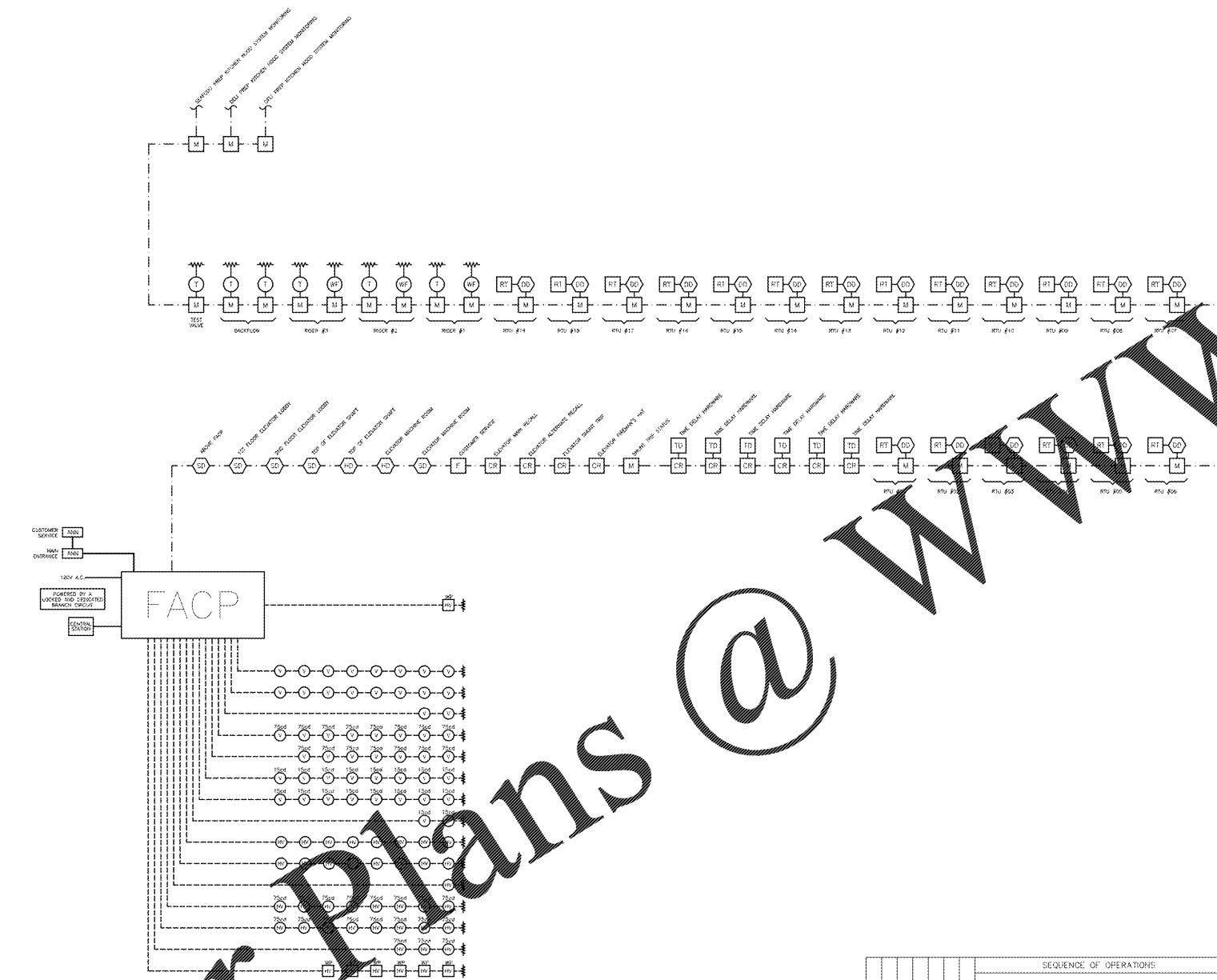


FIRE ALARM SYMBOLS LEGEND		
SYMBOL	QUANTITY	DESCRIPTION
[Symbol]	1	FIRE ALARM CONTROL PANEL
[Symbol]	3	FIRE ALARM ANNUNCIATOR
[Symbol]	3	MANUAL PULL STATION
[Symbol]	1	HEAT DETECTOR
[Symbol]	14	SMOKE DETECTOR
[Symbol]	10	RECEIVE TEST STATION
[Symbol]	1	MANUAL PULL STATION (DRIVE ACTION)
[Symbol]	51	LIBERTY BELL
[Symbol]	11	CONTROL RELAY
[Symbol]	2	TIME DELAY RELAY
[Symbol]	31	CEILING MOUNTED NOTIFICATION APPLIANCE
[Symbol]	36	CEILING MOUNTED NOTIFICATION APPLIANCE (STROBE)
[Symbol]	7	WALL MOUNTED NOTIFICATION APPLIANCE (HORN)
[Symbol]	1	SPRINKLER SYSTEM CONTROL VALVE SUPERVISORY TAMPER SWITCH
[Symbol]	4	WATERFLOW SWITCH



FIRE ALARM RISER DIAGRAM
SCALE: NO SCALE

ELEVATOR SEQUENCE OF OPERATIONS	
ACTIVATION OF ELEVATOR AREA LEVEL 1000 SMOKE DETECTOR	
ACTIVATION OF ELEVATOR SMOKE LEVEL 1000 SMOKE DETECTOR	
ACTIVATION OF ELEVATOR TOP OF SHaft SMOKE DETECTOR	
ACTIVATION OF ELEVATOR TOP OF SHaft HEAT DETECTOR	
ACTIVATION OF ELEVATOR MECHANICAL ROOM HEAT DETECTOR	
ACTIVATES ELEVATOR ALTERNATE RELEASE	●
ACTIVATES ELEVATOR MAIN RELEASE	●
ACTIVATES ELEVATOR TEST 1000 POWER	●
ACTIVATES ELEVATOR FIRE HAZARD INDICATION	●

SEQUENCE OF OPERATIONS	
ACTIVATION OF ELEVATOR AREA LEVEL 1000 SMOKE DETECTOR	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATION OF ELEVATOR SMOKE LEVEL 1000 SMOKE DETECTOR	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATION OF ELEVATOR TOP OF SHaft SMOKE DETECTOR	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATION OF ELEVATOR TOP OF SHaft HEAT DETECTOR	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATION OF ELEVATOR MECHANICAL ROOM HEAT DETECTOR	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATES ELEVATOR ALTERNATE RELEASE	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATES ELEVATOR MAIN RELEASE	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATES ELEVATOR TEST 1000 POWER	ACTIVATES ROSEN AREA HORN/STROBE
ACTIVATES ELEVATOR FIRE HAZARD INDICATION	ACTIVATES ROSEN AREA HORN/STROBE

- NOTES:
- A BOSCH FPD-7024 FIRE ALARM CONTROL PANEL SHALL BE REQUIRED.
 - THE FIRE ALARM CONTRACTOR SHALL PREPARE SHOP DRAWINGS, RISER DIAGRAMS, POINT BY POINT WIRING SCHEMATICS, BATTERY AND LINE LOSS CALCULATIONS, SEQUENCE OF OPERATIONS, ETC. AS REQUIRED TO OBTAIN APPROVAL OF DRAWINGS AND PLANS. THE ALARM CONTRACTOR SHALL SUBMIT THREE (3) SETS OF SUBMITTAL DRAWINGS TO TELGIAN FOR REVIEW. ONCE APPROVED BY TELGIAN THE ALARM CONTRACTOR SHALL SUBMIT THREE (3) SETS OF SIGN AND SEALED SHOP SUBMITTAL LEVEL DRAWINGS AND SUBMITTAL BOOKS FOR FILING WITH THE JURISDICTION.
 - A MINIMUM OF 10% EXCESS CAPACITY IS REQUIRED ON EACH SIGNALING LINE CIRCUIT (SLC). T-TAPPING IS AN ACCEPTABLE METHOD OF WIRING. A FORM OF CIRCUIT ISOLATION FROM A FAULT CONDITION IS REQUIRED TO PREVENT COMPLETE SLC IMPAIRMENT AND ENSURE SURVIVABILITY. AN ISOLATION MODULE FOR EACH T-TAP IS REQUIRED.
 - SIGNALING LINE CIRCUITS SHALL BE CLASS B. INITIATING DEVICE CIRCUITS SHALL BE CLASS B. NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS B.
 - POWER CONSUMPTION AND CIRCUIT LOADING PARAMETERS SHALL NOT EXCEED A MAXIMUM OF 90% OF CAPACITY DURING PEAK AMPERAGE DRAW CONDITIONS (I.E. ALARMS). POWER SUPPLIES SHALL BE LOCATED AND SIZED TO ACHIEVE THIS PURPOSE. WIRE SIZE AND CIRCUIT LENGTH SHALL ALSO BE CONSIDERED.
 - THE WALL MOUNTED STROBES AND HORN/STROBES SHALL BE PLACED 80 IN (2,030 MM) ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6 IN (152 MM) BELOW THE CEILING, WHICH EVER IS LOWER UNLESS OTHERWISE INDICATED. THE 115 CD STROBES AND HORN/STROBES, IF LISTED FOR CEILING MOUNTING, SHALL BE PLACED AT THE BOTTOM OF THE BAR JOIST CENTERED DIRECTLY OVER THE RESPECTIVE ASSEMBLY. A BAR JOIST DOES NOT CENTER DIRECTLY OVER THE AISLE, THE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A UNISTRUT TO MEET THIS REQUIREMENT.
 - OUTDOOR NOTIFICATION DEVICES SHALL BE MOUNTED ON CAST WEATHERPROOF OUTLET BOXES (2 GANG BELL BOX) WITH RUBBER GASKET OR MANUFACTURER'S GUIDELINES.
 - ALL FIRE ALARM SYSTEM CABLEING SHALL BE ROUTED THROUGH 3/4" EMT CONDUIT FROM DEVICES AND SHALL BE STABBED TO THE BOTTOM CHORD OF THE BAR JOIST. AT THAT POINT CABLEING SHALL BE RUN EXPOSED ALONG THE CEILING IF ACCEPTABLE. THE ONLY ALL EXPOSED WIRING SHALL BE TYPE FPL OR FPLP IN PLENUM SPACES.
 - THE ALARM CONTRACTOR SHALL PROVIDE ALL TOOLS, LIFTS, MATERIALS AND LABOR TO INSTALL ALL MATERIALS AND EQUIPMENT ENSURES AS SPECIFIED ON THE SHOP DRAWINGS. THIS INSTALLATION SHALL REFLECT THE SHOP DRAWINGS AS WELL AS THE FIELD CONDITIONS. IF THE FACP AND NAC POWER SUPPLIES CANNOT BE INSTALLED WHERE INDICATED DUE TO SPACE LIMITATIONS, ALTERNATE LOCATION SHALL BE COORDINATED WITH TELGIAN. THE ALARM CONTRACTOR SHALL PROVIDE THE KROGER PROJECT MANAGER WITH AN ILLUSTRATE AS-BUILT POINT TO POINT PLAN INDICATING CONDUIT AND CABLE ROUTING, PIPE FILL, WIRE IDENTIFICATION AND JUNCTION POINTS.
 - THE ALARM CONTRACTOR SHALL CONTACT TELGIAN (734-738-1111) WITH ANY COMMENTS, EXCEPTIONS TO THE DRAWINGS OR SPECIFICATIONS PRIOR TO BID. THE CONTRACTORS ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES NOT FOUND PRIOR TO BID. MODIFICATIONS TO THE PLANS SHALL NOT BE ALLOWED WITHOUT EXPRESSED WRITTEN APPROVAL BY TELGIAN.
 - THE ALARM CONTRACTOR SHALL PROVIDE A MOTORIZED AERIAL WORK PLATFORM AND LADDER PERMANENTLY DURING THE ENTIRE PERIOD OF THE FIRE ALARM INSTALLATION. THE PLATFORM SHALL BE AT LEAST 6' ABOVE THE FLOOR OF ANY WORKING LEVEL.
 - ALL CONDUIT, BOXES (UNLESS OTHERWISE INDICATED), STRINGS, COLUMNS, CONNECTORS, STRAPS, SUPPORTS, PULL STRINGS, BUSHINGS, ETC., SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICIAN CONTRACTOR.
 - THE ALARM CONTRACTOR SHALL INCLUDE IN HIS BID THE USE OF OTHER TRADES TO COMPLETE THIS PROJECT.
 - THE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLE EXPOSED USING APPROVED FIRE RATED CABLE PER NEC ARTICLE 760.
 - CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICIAN CONTRACTOR. ALL EXPOSED CABLE BELOW THE BOTTOM BAR JOIST OR OTHER ROOF STRUCTURE PROTRUSION, DOWNER, OR OTHER LOCATIONS WHERE THE CABLE MAY BECOME EXPOSED AND/OR DAMAGED, MUST BE WITHIN A STEEL CONDUIT. THE ELECTRICIAN CONTRACTOR SHALL PROVIDE AND INSTALL ALL JUNCTION BOXES AND COVERPLATES PER MANUFACTURER'S INSTRUCTIONS AND DETAILS. ALL ALARM JUNCTION BOXES SHALL BE LABELED AS "FIRE ALARM SYSTEM" WITH DECAL OR OTHER APPROVED LABELS BY ALARM CONTRACTOR PER JURISDICTIONAL REQUIREMENTS.
 - THE ALARM CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT WITH THE GENERAL AND ELECTRICAL CONTRACTORS.
 - SYSTEM OPERATION, TESTING, TURN OVER, WARRANTY, COMPLIANCE AND AFTER MARKET SERVICE SHALL BE THE RESPONSIBILITY OF THE ALARM CONTRACTOR.
 - TELGIAN SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO SUPERVISE THE CONDUCT OF THE CONSTRUCTION PROCEDURES FOLLOWED BY THE CONTRACTOR'S EMPLOYEES, THEIR RESPECTIVE EMPLOYEES OR ANY OTHER PERSON AT THE JOB SITE OTHER THAN TELGIAN EMPLOYEES.
 - CAUTION: TELGIAN SHALL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY TELGIAN.
 - NO HORIZONTAL RUNS ON WALLS WILL BE ALLOWED BELOW THE BAR JOIST.
 - LOOSE WIRE SHALL BE INSTALLED AND SECURED TO THE BAR JOIST AS INDICATED ON THE DESIGN DOCUMENTS AND SHALL RUN EITHER PARALLEL OR AT 90° TO THE JOIST. NO DIAGONAL WIRING WILL BE ALLOWED.
 - THE ALARM CONTRACTOR SHALL COORDINATE ALL LOCATIONS WITH THE LATEST KROGER FIXTURE PLANS PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS AND THE ACTUAL SITE SHALL BE COMMUNICATED BACK TO TELGIAN PRIOR TO THE BID.
 - THE ALARM CONTRACTOR SHALL PERFORM A FIRE ALARM SYSTEM ACCEPTANCE TEST IN THE PRESENCE OF TELGIAN. THIS TEST IS IN ADDITION TO THE TESTS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE CERTIFICATE OF OCCUPANCY. THE TESTS SHALL BE IN ACCORDANCE WITH NFPA 72 AND SHALL BE PERFORMED AFTER THE COMPLETE INSTALLATION OF ALL SYSTEMS. CONTRACTOR SHALL BUDGET FOR TWO (2) CONSECUTIVE DAYS OF TESTING AND HAVE TWO (2) PERSONNEL ON SITE. HOWEVER THE CONTRACTOR SHALL BE RESPONSIBLE TO BE PRESENT UNTIL SUCH TIME THAT ALL SYSTEMS ARE FOUND ACCEPTABLE. THE CONTRACTOR SHALL FURNISH ALL PERSONNEL, LIFTS, HAND TOOLS, PADDIS AND ANY OTHER EQUIPMENT NEEDED FOR TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS INCURRED BY THE FAILURE TO PERFORM THE TESTS ON THE SCHEDULED DATE, WITHIN THE BUDGETED TIME (2 CONSECUTIVE DAYS), AND/OR RETESTS DUE TO SYSTEM FAILURE (COSTS INCLUDE, BUT ARE NOT LIMITED TO TRAVEL, LODGING, PER DIEM, TRANSPORTATION AND LABOR).
 - THE FIRE ALARM SYSTEM CONTROL PANEL SHALL BE MOUNTED AT 60° TO THE TOP OF THE KEYPAD, ABOVE FINISHED FLOOR. THE FIRE ALARM ANNUNCIATOR SHALL BE MOUNTED AT 45° TO THE CENTER OF THE ANNUNCIATOR DISPLAY, ABOVE FINISHED FLOOR.
 - THE FOLLOWING FIRE ALARM EQUIPMENT, IF APPLICABLE, SHALL BE FURNISHED AND PROVIDED BY THE INSTALLING CONTRACTOR UNLESS OTHERWISE NOTED.
 - FIRE ALARM CONTROL PANEL
 - STAIR-WAY EXTERIORS
 - ANNUNCIATORS
 - MANUAL PULL STATIONS
 - AREA SMOKE DETECTORS
 - CONTROL RELAYS (HVAC SHUTDOWN, DOOR RELEASE, ETC.)
 - NOTIFICATION APPLIANCES (HORNS, STROBES, BELLS, ETC.)
 - MONITOR MODULES FOR INITIATING DEVICES (WATERFLOW SWITCHES, GATE VALVES, SPRINKLER TAMPER SWITCHES, PIV'S, FIRE PUMP, DRY SYSTEMS, ETC.)
 - THE ALARM CONTRACTOR SHALL PROVIDE SERVICES NECESSARY TO OBTAIN FINAL APPROVAL DEEMED NECESSARY UNTIL FINAL APPROVAL IS OBTAINED FROM THE JURISDICTION.
 - THE ALARM CONTRACTOR SHALL PROVIDE A PROFESSIONALLY OPERATED FIRE WATCH AT ANY TIME THE EXISTING FIRE ALARM SYSTEM IS NOT OPERATIONAL. AT NO TIME WILL THE STORE BE WITHOUT A FIRE ALARM SYSTEM TESTED AND APPROVED BY KROGER AND THE AUTHORITY HAVING JURISDICTION OR A FIRE WATCH. THE FIRE WATCH SHALL BE PROVIDED UNTIL SUCH SYSTEMS ARE FOUND ACCEPTABLE AND APPROVED BY KROGER AND THE AUTHORITY HAVING JURISDICTION. THE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY THE FIRE WATCH.
 - A WEATHERPROOF NOTIFICATION APPLIANCE SHALL BE INSTALLED 10' A.F.G. ABOVE THE FIRE DEPARTMENT CONNECTION AND ACTIVATED UPON WATERFLOW ONLY.
 - THE ALARM CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL AND TESTED FIRE ALARM SYSTEM, TRAINING ON THE OPERATION AND PROPER USE OF THE INSTALLED SYSTEM (A MINIMUM OF 2 CLASSES SHALL BE PROVIDED), INCLUDING A 24 HOUR PHONE NUMBER FOR QUESTIONS AND SERVICE REQUEST TO THE KROGER REPRESENTATIVE, ONE (1) WEEK PRIOR TO COMPLETION.
 - THE ALARM CONTRACTOR SHALL VERIFY THE ACCURACY WITH KROGER MANAGEMENT, CONTACT LISTS FOR NOTIFICATION PURPOSES IN CASE OF SYSTEM ACTIVATION. THE NOTIFICATION LIST SHALL INCLUDE CONTACT PHONE NUMBERS, INDIVIDUAL'S TITLE, AND PASS CODES. THE INFORMATION SHALL BE TRANSMITTED TO THE CENTRAL STATION UPON RECEIPT TWO WEEKS PRIOR TO COMPLETION.
 - IF THE ALARM CONTRACTOR REQUIRES ASSISTANCE TROUBLE SHOOTING THE SYSTEM THE ALARM CONTRACTOR SHALL CONTACT THE MANUFACTURER OF THE PRODUCT OR CONTRACT THE SERVICES OF A FIRM FAMILIAR WITH SERVICING SUCH SYSTEMS.
 - FINAL ACCEPTANCE WILL REQUIRE THE CONTRACTOR TO DELIVER TO THE KROGER PROJECT MANAGER THE FOLLOWING:
 - THREE (3) SETS OF RECORD DRAWINGS (AS BUILT DRAWINGS).
 - THREE (3) COPIES NFPA 72 (2010) CERTIFICATE OF COMPLETION.
 - THE ALARM CONTRACTOR, UPON COMPLETION, SHALL PROVIDE TO THE KROGER PROJECT MANAGER AT A MINIMUM, LETTER OF COMPLETION INDICATING THE SYSTEM HAS BEEN FULLY TESTED LOCALLY AND REMOTELY, SIGNALS HAVE BEEN VERIFIED TO THE CENTRAL STATION AND OPERATION OF THE SYSTEM HAS BEEN FULLY DEMONSTRATED TO KROGER PERSONNEL (INCLUDE NAMES OF THOSE WHO WERE DEMONSTRATED TO), USERS AND INSTALLATION MANUALS AND CUT SHEETS ON ALL ALARM DEVICES INSTALLED ON THE PREMISE. THE ALARM CONTRACTOR SHALL RECEIVE WRITTEN SIGN OFF FROM THE KROGER PROJECT MANAGER INDICATING ALL THE ABOVE HAVE BEEN DELIVERED.
 - ANY DAMAGE TO THE STORE SHALL BE REPAIRED BY THE ALARM CONTRACTOR.
 - AT THE END OF EACH WORK DAY, DURING THE INSTALLATION, THE INSTALLING CONTRACTOR SHALL CLEAN UP ALL DEBRIS, FINGERPRINTS, DUST FROM DRILLING, ETC. ANY WORK NOT COMPLETED SHALL BE LEFT IN A MANNER THAT WILL NOT AFFECT ANY OTHER OPERATION.
 - THE SYSTEM SPECIFICATION CONTAINS ADDITIONAL INFORMATION THAT SHALL BE ADHERED TO.

FIRE ALARM NOTES
SCALE: NO SCALE

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TERRON GARDNER
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QUALITY CONTROL
BRIAN SCODDAR

OWNER
Kroger
ISSUE/REVISION
10/05/16
100% OWNER REVIEW
100% PERMIT-BO
10/04/17
BULLETIN #1

PROJECT TITLE
KROGER STORE #543
Hampton, VA
COMMISSION NO.
ISSUE DATE 08/11/16
SHEET TITLE
FIRE ALARM RISER DIAGRAM & NOTES
SHEET NO.
FA3.0

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