

SPRINKLER LEGEND	
1	NEW PENDENT TYPE SPRINKLER HEAD, FULL CONCEALED WITH COVER PLATE. COVER PLATES IN GYPSON BOARD CEILING SYSTEMS SHALL BE COLOR WHITE UNLESS SYSTEM BOARDING IS OTHER THAN COLOR WHITE. IF OTHER THAN COLOR WHITE, FACTORY PAINT COVER PLATES TO MATCH CEILING BOARD.
2	NEW SEMI RECESSED PENDENT TYPE SPRINKLER HEAD, WHITE COLOR. IN CASE SPRINKLER AREA, TYPICAL SHALL MATCH HEAD CO. OR, HEADS SHALL BE CHROME.
3	NEW UPRIGHT TYPE SPRINKLER HEAD, BRASS FINISH.

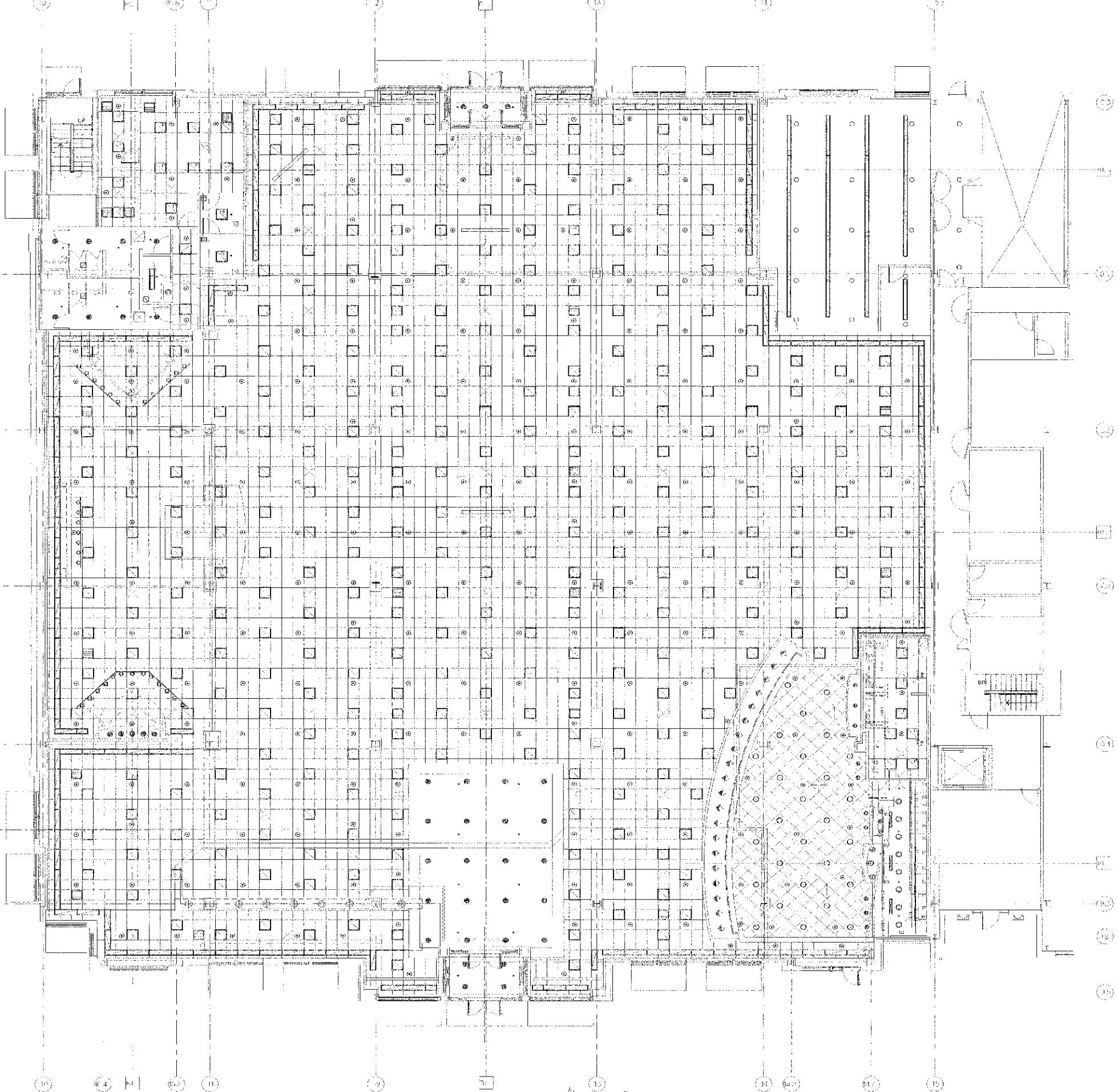
**SPRINKLER SPECIFICATIONS**

- A. GENERAL PROVISIONS: (B.F. WHEN CONTRACTOR IN THIS SECTION SHALL REFER TO BARNES & NOBLE'S FIRE SPRINKLER CONTRACT CD.)
- THE GENERAL CONDITIONS OF THE CONTRACT, (HAROLD ENTOR) PUBLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS, SHALL BE PART OF THIS CONTRACT.
  - THE ARTICLES CONTAINED IN THIS DIVISION AND IN ARCHITECTURAL SPECIFICATIONS MAY AMEND, MODIFY, SUPPLEMENT, VOID OR SUPPLEMENT THE ARTICLES OF THE GENERAL CONDITIONS NOTED IN SYLLEBEN (D) ABOVE, AND SHALL TAKE PRECEDENCE OVER THE PROVISIONS OF THE GENERAL CONDITIONS IN IT.
  - GENERAL COMMENTS: ON ANY WORK, CONTRACTOR SHALL HAVE A WRITTEN PROFESSIONAL ENGINEER OR ARCHITECTURAL SPECIFICATION OF PROFESSIONAL ENGINEER AND ENGINEERING LIABILITY INSURANCE TO PROTECT COMPLETE AND DETAILED WORKING PLANS (INCLUDING "MECHANICAL" CALCULATIONS IF REQUIRED), SHOWN AND READ BY THE ENGINEER WHICH SHALL BE SUBMITTED BY THE CONTRACTOR TO OBTAIN NECESSARY APPROVAL BY LOCAL, BUILDING AND FIRE DEPARTMENTS, INSURANCE RATING ORGANIZATION AND OTHER AGENCIES HAVING JURISDICTION.
  - THIS CONTRACT IS REFERRED TO THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS AND SPECIFICATIONS WHICH ARE HEREBY MADE PART OF THE CONTRACT.
  - PROVIDE ALL WORK AND MATERIALS AS REQUIRED HEREON AND ON THE DRAWINGS, SHALL ACCORDING WITH ALL APPLICABLE STATE, LOCAL AND LOCAL CODES, ORDINANCES AND/OR REGULATIONS HAVING JURISDICTION OVER THIS WORK.
  - THIS CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, LICENSES AND CERTIFICATES AND PAY ALL FEES CONNECTED WITH THE INSTALLATION OF THE SPRINKLER SYSTEM AND THE SCHEDULE PROVISIONS AND ITS INSTALLATION.
  - SEEDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS SURROUNDING THE WORK TO THAT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE SITE ARE NOTED IN THE WORK ORDER BY THE CONTRACTOR, SUCH WORK SHALL BE CHANGED AT THE ADDITIONAL COST TO BARNES & NOBLE.
  - CHANGES ARE DISAPPROVED AND RETURNED TO SHOW APPROXIMATE LOCATIONS "LESS SPECIFICALLY" DIMENSIONED, COORDINATE THE WORK WITH THE OTHER TRADES TO AVOID INTERFERENCE. SHOULD ANY WORK BE INSTALLED WHICH INTERFERES WITH THE WORK OF THE CONTRACTOR, SUCH WORK SHALL BE CHANGED AT THE ADDITIONAL COST TO BARNES & NOBLE.
  - AT THE COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH, D.C., AND STAIRS CAUSED BY HIS WORK AND SHALL THOROUGHLY CLEAN ALL SPRINKLER WORK INCLUDING EQUIPMENT, PIPING, ETC.
  - THIS CONTRACTOR SHALL TOUCH UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARKED DURING SHIPMENT OR INSTALLATION.
  - THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO HIS ENGINEER FOR HIS APPROVAL FOR SUCH EQUIPMENT AND MATERIALS AS THE ARCHITECT MAY RESERVE. ARCHITECT'S REVIEW MARK, TAKE, AND BEFORE CONSTRUCTION BEGINS.
  - "RECORD" DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR IF INSTALLATION DEVIATES FROM THE ORIGINAL LAYOUT.
  - ENTIRE INSTALLATION SHALL BE IN FULL CONFORMANCE WITH THE MAIN STANDARD SEISMIC RESTRAINT LABELINGS.

**B. SYSTEMS:**

- ALL FIRE SPRINKLER WATER OUTLET WILL BE PROVIDED UNLESS IT IS OTHERWISE SPECIFIED. CONTRACTOR SHALL INSTALL A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM INCLUDING, BUT NOT LIMITED TO, CONNECTION TO SPRINKLER SERVICE, PROVISION AND INSTALLATION OF SPRINKLER SCHEDULE PROVISIONS, DISCHARGE WITH ALL VALVES, FIRE ALARM CONNECTION AND ALL FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL JURISDICTION AND SHALL BE PROVIDED AS REQUIRED BY LOCAL JURISDICTION AND SHALL BE PROVIDED AS REQUIRED BY LOCAL JURISDICTION. CONTRACTOR SHALL PROVIDE ALL SPRINKLER WORK SHALL BE IN FULL ACCORD WITH THE DATA'S BOARD OF INSURANCE LOCAL, THE DEPARTMENT, TOWN AND COUNTY, INSURANCE UNDERWRITER, LOCAL BUILDING CODES AND NFPA 13 APPLICABLE EDITION.
- SPRINKLER HEAD LAYOUT IS INTENDED AS A CONVENIENCE ONLY TO ESTABLISH INTENT OF THE SYSTEM, THE PROPER BASIC REQUIRED CONFORMANCE AND TO INDICATE DESIRED SPRINKLER HEAD PLACEMENT RELATIVE TO ARCHITECTURAL FEATURES. SUCH LAYOUT DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING ADEQUATE SPRINKLER COVERAGE IN ALL AREAS INCLUDING THOSE AREAS ON WHICH IS NOT ATTACHED TO WALLS AND CEILING (E.G., STAIRS, STAIRWAYS, STAIRS, ETC.) TO CONFORM TO THE INTENT OF THE SPECIFICATIONS. PLEASE NOTE THAT IN GENERAL, AT TILED OR UNFINISHED FLOORS, SPRINKLER SHALL BE LOCATED IN CENTER OF OR AT QUARTER POINTS ALONG THE LONG CENTERLINE AND OF THE COVERED AREAS. OTHERWISE, SUPPLY US WITH SPRINKLER HEAD LOCATIONS INDICATED AT NORTH AND SOUTH END OF EACH AREA AFTER FINALLY CRITICAL AND SHALL BE ADHERED TO WHENEVER POSSIBLE.
- THE SPRINKLER SYSTEM INSTALLATION SHALL INCLUDE DROPS, RISERS, FACILITIES FOR PROPER DRAINAGE AND ANY NECESSARY TEST VALVES, ORIFICES OR OTHER EQUIPMENT AS MAY BE REQUIRED BY THE ABOVE AUT-CRITIES.
- AFTER RECEIPT OF APPROVAL AND BEFORE PROCEEDING WITH ANY INSTALLATION WORK, CONTRACTOR SHALL FURNISH TWO (2) SPRINKLER SHOP DRAWING BLUELINE PRINTS BEARING THE FIRE INSURANCE UNDERWRITER'S STAMP OF APPROVAL TO THE TENANT REPRESENTATIVE FOR APPROVAL.
- SPRINKLER MAIN SHALL BECOME ACTIVE ON A SCHEDULE ESTABLISHED BY LANDLORD.
- THE SPRINKLER SYSTEM SHALL BE TESTED HYDRAULICALLY FOR A PERIOD OF TWO (2) HOURS IN THE PRESENCE OF TENANT REPRESENTATIVE AS REQUIRED BY LANDLORD AND LOCAL FIRE DEPT.
- UPON COMPLETION OF THE SYSTEM AND ON POSSESSION OF PREMISES, OWNER WILL BE RESPONSIBLE TO REPAIR FROM THE DATE WHEN SYSTEM THAT THE SYSTEM WAS TESTED AND APPROVED.
- CONTRACTOR SHALL VERIFY WATER SERVICE FOR SYSTEM DESIGN CRITERIA AND SHALL AS A MINIMUM DESIGN SPRINKLER SYSTEM ON ALL ORDINARY HAZARD AREAS. CONTRACTOR SHALL INCLUDE COMPLETE HYDRAULIC CALCULATIONS THROUGHOUT THE PREMISES AS ACCORDANCE WITH SPRINKLER SERVICE PARAGRAPH 10.3 OF THE FOLLOWING:
  - (A) RESIDENT PREMISES: IN (2) R POINT OF CONNECTION.
  - (B) SPRINKLER IN VARY FACIES: IN (2) R POINT OF CONNECTION.
  - (C) PROTECTION: ORDINARY - HAZARD GROUP 2.
  - (D) ORN.
  - (E) STATIC PRESSURE: IN PSI.
- CONTRACTOR DESIGN THIS PROJECT SHALL BE ACCEPTED TO PROFORM THIS WORK AND SHALL BE APPROVED BY LANDLORD AND TENANT.
- ALL RISERS PROVIDING RATED RISERS AND FLOOR ASSEMBLIES MUST BE FIRE STOPPED AND SEALED WITH ALL APPROVED PRODUCTS.
- EXTENDED COVERAGE HEADS CAN BE USED WHEN ALLOWED BY LOCAL JURISDICTION HAVING JURISDICTION.
- ALL PIPING SUSPENDED BELOW THE STRUCTURE SHALL BE SECURED FROM THE CEILING TO THE FLOOR.

**NOTE:**  
THIS DRAWING ISSUED FOR PRICING ONLY, NOT FOR CONSTRUCTION OR FOR FILING WITH AUTHORITIES HAVING JURISDICTION.



**SPRINKLER HEAD LAYOUT PLAN**  
SCALE: 1/8"=1'-0"

Barnes & Noble Bookstore  
The Market Common  
Myrtle Beach, South Carolina

Project Number: 06025  
Store Number: 2299

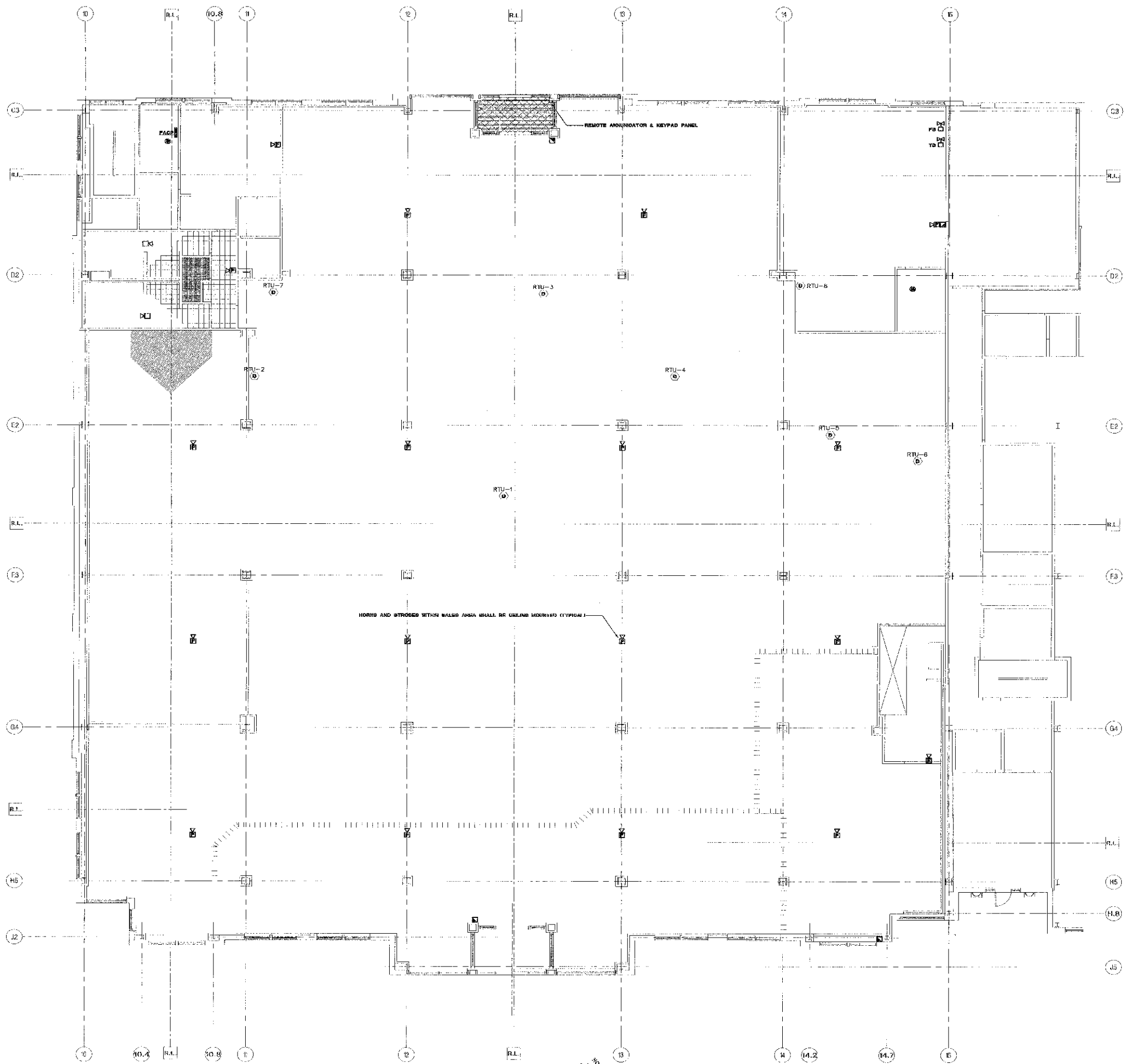
**SPRINKLER LAYOUT PLANS AND SPECIFICATIONS**

Submission	Date
1	27 JULY 07
2	15 AUG 07

Drawing No. **SP-1**

Scale/Signature  
Engineer David F. Goussard  
Certification No. CO1734

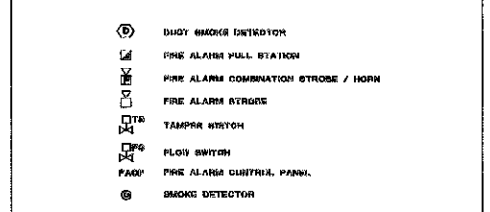
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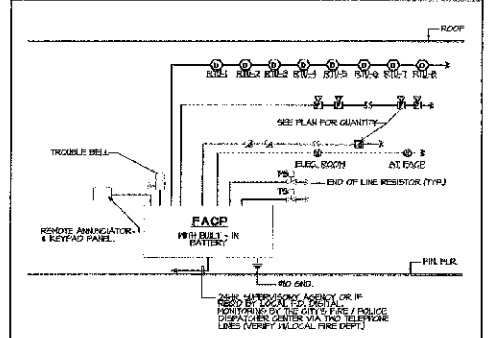
**FIRE ALARM SYSTEM NOTES AND SPECIFICATIONS**

1. SCOPE OF WORK: FIRE ALARM VENDOR SHALL FURNISH AND INSTALL SYSTEM, CONDUIT AND WIRE VOLTAGE BY G.C.
- A3. A COMPLETE AUTOMATIC CLOSED CIRCUIT ELECTRICALLY SUPERVISED FIRE ALARM SIGNAL SYSTEM IN ACCORDANCE WITH PROTECTION CODE, NFPA AND LOCAL FIRE DEPT. REGS.
2. SYSTEM DESCRIPTION
  - A3. FIRE ALARM SYSTEM SHALL BE OF THE NON-CODED CLOSED CIRCUIT GENERAL FIRE ALARM CONSISTING OF THE FOLLOWING EQUIPMENT:
    - FIRE ALARM CONTROL AND REMOTE & ANNUNCIATION CONTROL PANEL.
    - MANUAL PULL STATION
    - COMBINATION HORN AND VISUAL STROBE LIGHT
    - SMOKE DETECTOR
    - DUST SMOKE DETECTOR (FURNISHED BY HVAC)
    - SUPERVISORY AGENCY TRANSMITTER
    - SPRINKLER FLOW & TAMPER SWITCHES PROVIDED BY SPEC. CONTR. COORDINATE IN FIELD
3. SEQUENCE OF OPERATION
  - A1. UPON ACTIVATION OF ANY MANUAL PULL STATION, AUDIBLE SIGNAL SHALL SOUND A NON-CODED ADDRESS SOUND THROUGHOUT ALL OF THE VISUAL STROBES SHALL BE ACTIVATED.
  - B1. ACTIVATION OF ANY OF THE AUTOMATIC FIRE DETECTION DEVICES (SMOKE DETECTORS, FLOW SWITCHES, ETC.) SHALL SOUND A NON-CODED ADDRESS SIGNAL THROUGHOUT ALONG WITH THE ACTIVATION OF THE STROBES.
  - C1. ACTIVATION OF ANY OR BOTH (A) AND (B) ABOVE SHALL CAUSE FOR A TRANSMISSION OF A FIRE ALARM SIGNAL TO A REMOTE SUPERVISORY AGENCY VIA TELEPHONE LINES, OR TO LOCAL AUTHORITIES IF REQ'D. STOP ALL AIR SUPPLY FANS AND SOUND A LOCAL TROUBLE BELL. AN INDICATING TROUBLE LIGHT SHALL ALSO BE ACTIVATED.
  - D1. SYSTEM SHALL BE FULLY RESETTABLE AND SHALL HAVE PROVISIONS FOR TESTING WITH SILENCING CAPABILITIES.
  - E1. CONTROL PANEL SHALL BE PROVIDED WITH LED LIGHTS TO INDICATE ACTIVATED DEVICE.
4. GENERAL
  - A1. SYSTEM SHALL COMPLY WITH LOCAL COUNTY AND CITY FIRE PREVENTION ORDINANCE REQUIREMENTS AND SHALL MEET ALL REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT.
  - B1. WIREMEN PERMITTED AND APPROVED FOR THE APPLICATION WORKS SHALL BE OF THE CLASS CODED APPROVED FOR F.A. & SIGNAL WORK. WIREMEN NOT EXPOSED TO DAMAGED OR WRECKED WIRING ABOVE GROUND. OTHERWISE IT SHALL BE RUN IN CONDUIT.
  - C1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR AN F.D. INSPECTION AND DO ALL NECESSARY PLANS AND OBTAIN ALL PERMITS INCLUDING THE PAYMENT OF ALL FEES TO OBTAIN A FIRE DEPARTMENT APPROVAL.
  - D1. ENTIRE SYSTEM SHALL BEAR THE U.L. LABEL AND SHALL BE APPROVED FOR USE IN THE AREA.
  - E1. SYSTEM AND EQUIPMENT SHALL BE MANUFACTURED BY HONEYWELL, AD, PYROTRONICS SYSTEMS OR EQUAL.
  - F1. SYSTEM WIRING SIZE, TYPE AND QUANTITY SHALL BE IN ACCORDANCE WITH SYSTEM SPEC. RECOMMENDATIONS.
  - G1. VENDOR SHALL SUBMIT CUTS TO ARCHITECT FOR APPROVAL.

**FIRE ALARM SYMBOLS**



**FIRE ALARM AND SMOKE DETECTION RISER DIAGRAM**



**NOTE:**  
ALL LOW VOLTAGE WIRING AND SYSTEM COMPONENTS SHALL BE FURNISHED AND INSTALLED BY F.A. VENDOR. G.C. SHALL PROVIDE CUT-OUTS AS REQUIRED FOR F.A. DEVICES AND ASSOCIATED RUNS. G.C. SHALL PROVIDE EMPTY CONDUIT IN COLUMNS AND WALLS AS REQUIRED. G.C. TO COORDINATE ALL WORK WITH F.A. VENDOR.

1 FIRE ALARM PLAN  
SCALE: 1/8"=1'-0"

Barnes & Noble Bookstore  
The Market Common  
Myrtle Beach, South Carolina  
Project Number: 05095  
Store Number: 2289

**FIRE ALARM PLAN**

Submission \_\_\_\_\_ Date \_\_\_\_\_  
PERMIT \_\_\_\_\_ 27 JULY 07

Drawing No. **FA-1**

Signature \_\_\_\_\_  
Engineer David F. Gonzalez  
Certification No. CD1784  
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