

SCOPE OF WORK

AN EXISTING DICK'S SPORTING GOODS STORE LOCATED AT 3500 GALLERIA DRIVE IN GREENVILLE, NC 27834 WILL BE RENOVATING THE FOOTWEAR STOCK. ONE NEW STOCK ROOM, THE FOOTWEAR STOCK ROOM, WILL BE ADDED. THE EXISTING BUILDING IS APPROXIMATELY 50,144 SQ. FT., TYPE IIB CONSTRUCTION, AND PROVIDED WITH FIRE SPRINKLER PROTECTION THROUGHOUT.

APPLICABLE CODES

- NORTH CAROLINA BUILDING CODE BUILDING CODE, 2018 EDITION (NCBC) WITH CITY OF GREENVILLE AMENDMENTS
- NORTH CAROLINA FIRE PREVENTION CODE, 2018 EDITION (NCFPC) WITH CITY OF GREENVILLE AMENDMENTS
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS," 2016 EDITION

HIGH-PILED STORAGE NOTES

HIGH-PILED COMBUSTIBLE STORAGE REQUIREMENTS OF NCFPC CHAPTER 32 APPLY TO THE NEW STORAGE AREA DUE TO THE STORAGE OF GROUP A PLASTICS GREATER THAN 6 FEET IN HEIGHT. THE NEW HIGH-PILED STORAGE AREAS WILL BE SEPARATED FROM THE EXISTING HIGH-PILED STORAGE AREAS USING MINIMUM ONE-HOUR FIRE BARRIERS WITH ONE-HOUR OPENING PROTECTIVES, AS REQUIRED BY NCFPC SECTION 3206.3.2. SEE HPS-2 FOR HIGH-PILED STORAGE PLANS.

THE EXISTING STOCK AREAS WILL NOT BE MODIFIED BY THE TENANT IMPROVEMENT. THE EXISTING HIGH-PILED STORAGE AREAS WILL BE SEPARATED FROM THE AREA MODIFIED AND THE EXISTING AREAS HAVE THEREFORE NOT BEEN INCLUDED IN THE ANALYSIS.

THE FOLLOWING GENERAL STORAGE CONFIGURATION INFORMATION IS REQUIRED BY THE NCFPC TO BE PROVIDED FOR ALL BUILDINGS CONTAINING HIGH-PILED COMBUSTIBLE STORAGE. ONLY THE AREAS DESIGNATED WILL CONTAIN HIGH-PILED STORAGE.

- SPRINKLER SYSTEM DESIGN WILL PROVIDE AT LEAST 18 INCHES OF CLEARANCE BETWEEN TOP OF STORAGE AND THE SPRINKLER DEFLECTOR (NFPA 13 SECTION 8.6.6.1).
- THE TOTAL AREA OF HIGH-PILED STORAGE WILL CONSIST OF HIGH-HAZARD COMMODITIES NOT EXCEEDING 2,500 SQ. FT. REFER TO SIZE OF HIGH-PILED STORAGE AREA.
- FIRE DEPARTMENT ACCESS DOORS WILL NOT BE REQUIRED FOR THE HIGH-PILED STORAGE AREAS WITH HIGH-HAZARD COMMODITIES NOT EXCEEDING 2,500 SQ. FT. IN ACCORDANCE WITH NCFPC SECTION 3206.7
- AISLES PROVIDING ACCESS TO EXITS WILL BE PROVIDED IN HIGH-PILED STORAGE AREAS EXCEEDING 500 SQ. FT. IN ACCORDANCE WITH NCFPC SECTIONS 3206.10.1 THROUGH 3206.10.3. AISLES SEPARATING STORAGE PILES OR RACKS WILL COMPLY WITH NFPA 13. AISLES WILL COMPLY WITH NCFPC CHAPTER 10.
 - FOR SINGLE- AND DOUBLE-ROW RACK STORAGE OF PLASTIC COMMODITIES THE REQUIRED MINIMUM AISLE WIDTH IS 3 FEET 6 INCHES (NFPA 13 SECTION 17.1.2.2)
 - AISLE WIDTHS WILL BE IN ACCORDANCE WITH NCFPC SECTION 3206.10.1.
 - AISLES CROSSING RACK STRUCTURES OR STORAGE PILES, THAT ARE USED ONLY FOR EMPLOYEE ACCESS, WILL BE NOT LESS THAN 24 INCHES WIDE.
 - ALL OTHER AISLE WIDTHS WILL NOT BE LESS THAN 44 INCHES.
 - DEAD-END AISLES WILL NOT EXCEED 50 FEET IN LENGTH IN STORAGE AREAS.
- SMOKE AND HEAT REMOVAL WILL NOT BE REQUIRED FOR HIGH-PILED STORAGE AREAS WITH HIGH-HAZARD COMMODITIES NOT EXCEEDING 2,500 SQ. FT. IN ACCORDANCE WITH NCFPC TABLE 3206.2.
- PORTABLE FIRE EXTINGUISHERS WILL BE REQUIRED THROUGHOUT THE STORE IN ACCORDANCE WITH NFPA 10. ALL EXTINGUISHERS IN THE RETAIL AREAS WILL HAVE A MINIMUM 2-A-10-B-C RATING AND A MAXIMUM PROTECTION AREA OF 3,000 SQ. FT. PER EXTINGUISHER. MINIMUM CLASS 4-A EXTINGUISHERS WILL BE PROVIDED IN THE STOCK ROOM AREAS, WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET AND MAXIMUM PROTECTION AREA OF 4,000 SQ. FT. PER EXTINGUISHER. FIRE EXTINGUISHERS PROVIDED BY OTHERS. EXTINGUISHERS TO BE MOUNTED 3 FEET TO 5 FEET A.F.F. AND IDENTIFIED WITH A SIGN.
- FLUE SPACES IN RACKS WILL BE LOCATED BETWEEN STORAGE LOADS AS FOLLOWS:
 - RACK SHELF AREA SHALL BE LIMITED TO NO MORE THAN 20 SQ. FT. BETWEEN TRANSVERSE AND LONGITUDINAL FLUE SPACES AND AISLES (NFPA 13 SECTION 3.9.3.7.4)
 - NOMINAL 6-INCH TRANSVERSE FLUE SPACES BETWEEN LOADS AND AT RACK UPRIGHTS SHALL BE MAINTAINED IN RACKS OF ALL TYPES (NCFPC TABLE 3208.3 AND NFPA 13 SECTION 17.1.9.2).
 - IN DOUBLE-ROW RACKS, A LONGITUDINAL (BACK-TO-BACK CLEARANCE BETWEEN LOADS) FLUE SPACE IS NOT REQUIRED (NFPA 13 SECTION 17.1.9.1).
- THE NUMBER OF TIERS WILL VARY. SEE [HPS-2][THIS SHEET][HPS-3][...] FOR RACK ELEVATION DETAILS.
- FIRE ALARM AND DETECTION IS NOT REQUIRED FOR THE HIGH-PILED STORAGE AREA IN ACCORDANCE WITH NCFPC TABLE 3206.2.
- HIGH-PILED STORAGE AREAS WILL BE NON-PUBLICLY ACCESSIBLE.
- FIRE DEPARTMENT HOSE CONNECTIONS ARE NOT REQUIRED IN ACCORDANCE WITH NCFPC SECTION 3206.9.
- FIRE PROTECTION OF STEEL COLUMNS IS NOT REQUIRED FOR STORAGE HEIGHT UP TO 15 FEET (NFPA 13 SECTION 17.1.4).

COMMODITY AND STOCK INFORMATION

- HPS AREA #1 - RACK STORAGE
 - RACK HEIGHT = 13 FEET.
 - USABLE STORAGE HEIGHT = 15 FEET (CLASS I-IV AND GROUP A PLASTICS) HIGH-HAZARD COMMODITY.
 - 5 TO 10 FEET OF CLEARANCE FROM TOP OF STORAGE TO CEILING.
 - SHELVES AND RACKS ARE OPEN (WIRE MESH).
 - SINGLE- AND DOUBLE-ROW RACKS UP TO 48 INCHES DEEP.
 - MINIMUM AISLE WIDTH OF 44 INCHES.
- COMMODITY STORAGE INFORMATION UTILIZING NFPA 13, THE FOLLOWING PARAMETERS ARE USED TO ESTABLISH THE FIRE PROTECTION CRITERIA.
 - ALL COMMODITIES WILL NOT BE ENCAPSULATED OR BONDED.
 - ALL COMMODITIES STORED ON RACKS IN THE STOCK AREA WILL NOT BE ON PALLETS AND WILL BE CARTONED.
 - ALL GROUP A PLASTIC COMMODITIES ARE CONSIDERED NON-EXPANDED PLASTICS.
 - RACKS WILL HAVE OPEN WIRE METAL SHELVES. THERE WILL BE NO SOLID SHELVES IN THE HIGH-PILED STORAGE RACKS.
 - STORAGE OF OPEN-TOP CONTAINERS WILL NOT BE PERMITTED.

SIZE OF HIGH-PILED STORAGE AREA

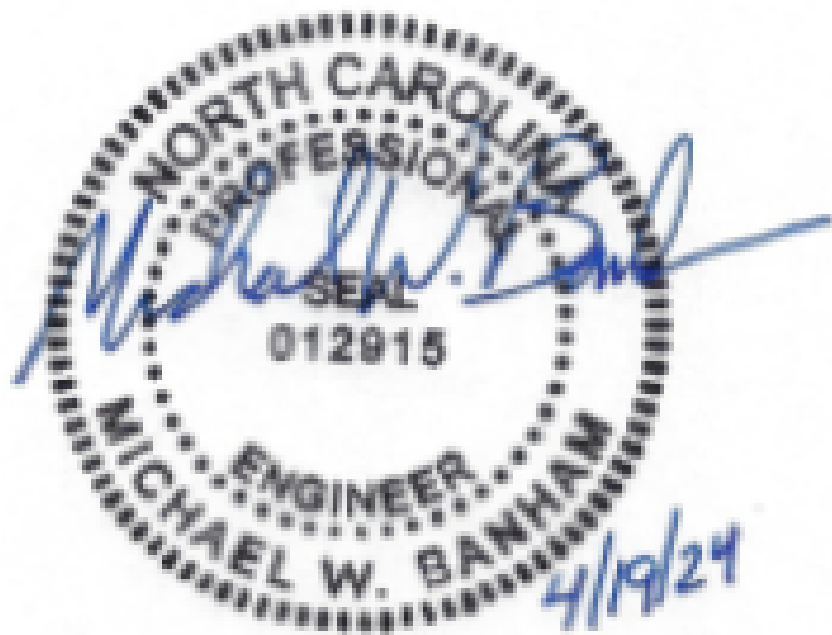
- THE SIZE OF HIGH-PILED STORAGE AREA WAS DETERMINED BY INCLUDING THE ENTIRE FLOOR AREA FOR THE FOOTWEAR STOCK ROOM WHICH IS SEPARATED BY MINIMUM ONE-HOUR FIRE BARRIERS WITH ONE-HOUR OPENING PROTECTIVES FROM OTHER HIGH-PILED STORAGE AREAS IN ACCORDANCE WITH NCFPC SECTION 3206.3.2.
- FOR MULTIPLE STORAGE AREAS WITHIN THE BUILDING, THE AGGREGATE OF ALL HIGH-PILED STORAGE AREAS WITHIN A BUILDING ARE USED TO DESIGN THE FIRE PROTECTION FEATURES FOUND IN NCFPC TABLE 3206.2, UNLESS SUCH AREAS ARE SEPARATED FROM EACH OTHER BY A MINIMUM ONE-HOUR FIRE BARRIER WALL WITH ONE-HOUR OPENING PROTECTIVES.
- THE DICK'S SPORTING GOODS STORE SIZE OF HIGH-PILED STORAGE AREA IS 1,506 SQ. FT.

SPRINKLER DESIGN CRITERIA

AREA/OCCUPANCY	TYPE OF STORAGE	USABLE STORAGE HEIGHT/DECK HEIGHT	REQUIRED PROTECTION	DESIGN STANDARD
HPS AREA 1	RACK STORAGE OF GROUP A PLASTICS (CARTONED, NON-ENCAPSULATED, UNEXPANDED AND STABLE), ON 13 FT. HIGH, OPEN WIRE MESH SHELVES.	15 FT. / FROM 24 FT. 0 IN. TO 24 FT. 9 IN.	HIGH TEMPERATURE-RATED (286°F) SPRINKLERS WITH A MINIMUM K-FACTOR OF 11.2 AND A DISCHARGE DENSITY OF 0.60 GPM/SQ. FT. OVER THE MOST REMOTE 2,000 SQ. FT. MAXIMUM CEILING SPRINKLER SPACING OF 100 SQUARE FEET; HOSE STREAM: 500 GPM OUTSIDE ALLOWANCE FOR 120 MINUTES.	NFPA 13 SECTIONS 12.6.3 AND 17.2.1, FIGURE 17.2.1.2.1(b), AND TABLES 8.6.2.2.1(d) AND 12.8.6.



1 SITE PLAN (FOR REFERENCE ONLY)
SCALE: NTS



SHEET INDEX

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| HPS-2 | HIGH-PILED STORAGE PLANS & RACK DETAILS |