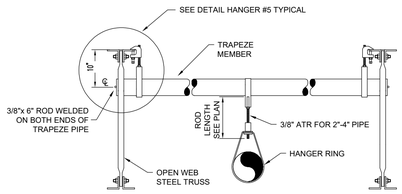
PROTECTION CRITERIA LEGEND

OCCUPANCY CLASSIFICATION	DENSITY	HOSE ALLOWANCE (GPM)	MAXIMUM SPRINKLER SPACING (SQ FT)	DESIGN BASIS
SALES FLOOR AND BACK STOCK	0.20/1500 SQ FT	250	130	MERCANTILE; STOCKPILES OF CLASS I-IV MAX STORAGE HEIGHT TO 12'-0" AND GROUP-A UP TO 8'-0" FOR THE SALES FLOOR. BACK STOCK AREAS CLASS I-III TO 12'-0", CLASS IV TO 10'-0 AND GROUP-A TO 5'-0" AS LOW PILED STORAGE

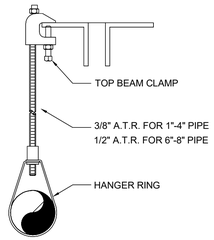


TRAPEZE PIPE SIZING

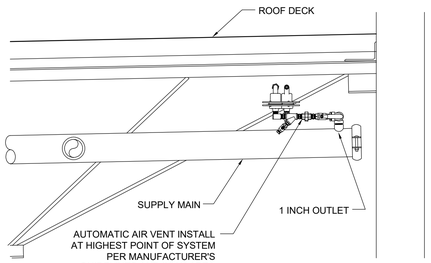
MAIN PIPE DIAMETER		2"	2½"	3"	4"
		TRAPEZE PIPE DIAMETER AND PIPE TYPE			
TRAPEZE LENGTH	8'-0"	2-1/2" SCH.10	2-1/2" SCH.10	2-1/2" SCH.10	2-1/2" SCH.10
	7'-0"	2-1/2" SCH.10	2-1/2" SCH.10	2-1/2" SCH.10	2-1/2" SCH.10
	6'-0"	2" SCH.10	2" SCH.10	2-1/2" SCH.10	2-1/2" SCH.10
A.T.R. SIZE		3/8"	3/8"	3/8"	3/8"

NOTE: ONLY ATTACH TRAPEZE HANGERS WITHIN 0'-6" OF THE TOP OF ANY TRUSS OR JOIST PANEL POINTS AT 15'-0" O.C. MAXIMUM. IF 6" DIMENSION CAN NOT BE ACHIEVED, A NEW WEB MEMBER CAN BE WELDED ON TO THE JOIST OR TRUSS AT THE DIRECTION OF THE STRUCTURAL ENGINEER **DO NOT LOCATE WITHIN 2'-0" OF LINE PIPING**

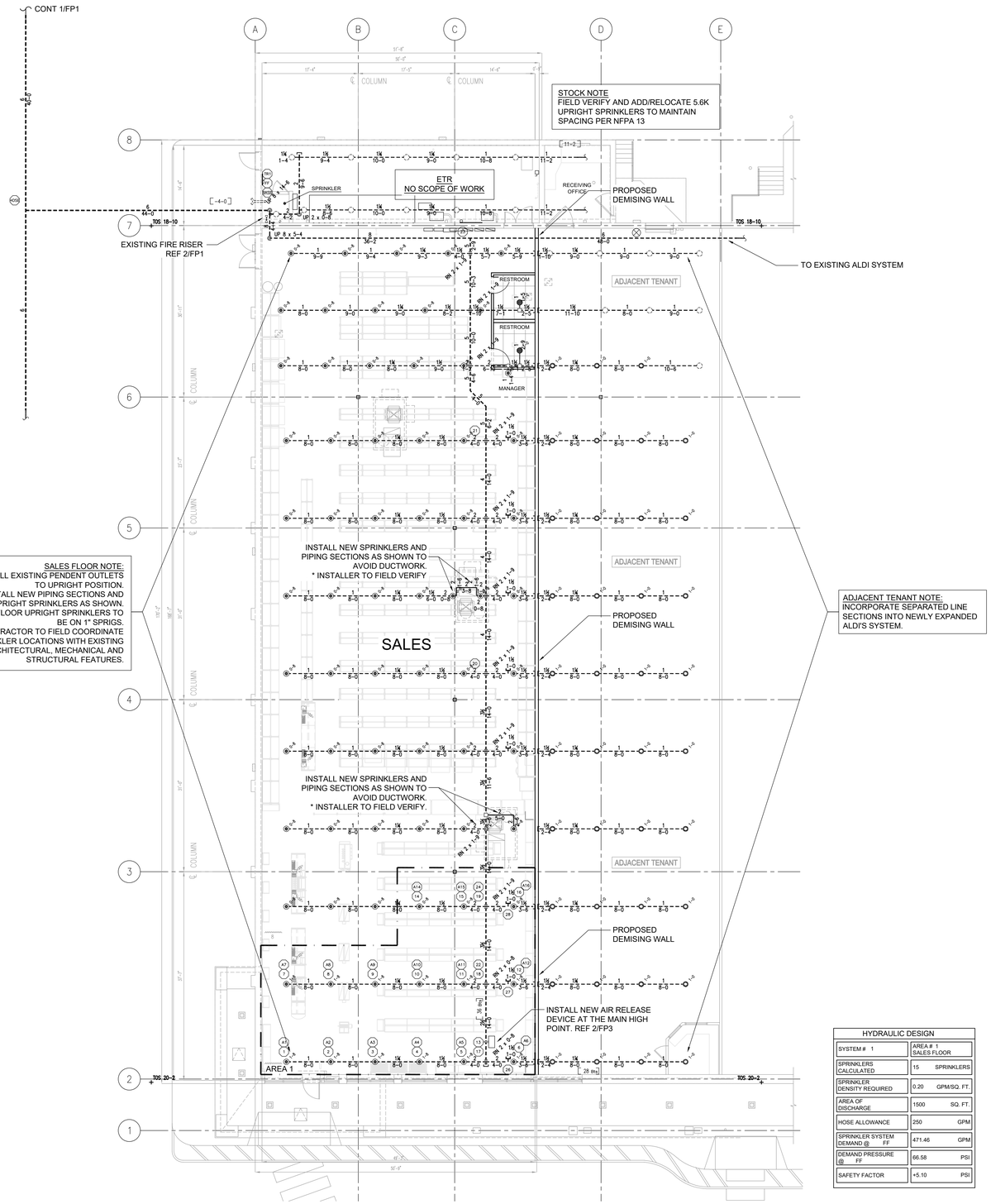
4 TRAPEZE HANGER #20
NOT TO SCALE



3 HANGER #5
NOT TO SCALE



2 AIR RELEASE VALVE
NOT TO SCALE



1 FIRE SPRINKLER REMODEL PLAN
SCALE: 3/32" = 1'

0 5' 10' 20'

HYDRAULIC DESIGN

SYSTEM # 1	AREA # 1 SALES FLOOR
SPRINKLERS CALCULATED	15 SPRINKLERS
SPRINKLER DENSITY REQUIRED	0.20 GPM/SQ. FT.
AREA OF DISCHARGE	1500 SQ. FT.
HOSE ALLOWANCE	250 GPM
SPRINKLER SYSTEM DEMAND @ FF	471.46 GPM
DEMAND PRESSURE @ FF	66.58 PSI
SAFETY FACTOR	+5.10 PSI

telgian
Engineering & Consulting
ENGINEERS | CONSULTANTS | ANALYSTS | ASSESSORS
TELGIAN AAA# 0034891

Digitally signed by Drew D Gerard
Date: 2026.07.24 13:39:32 -07'00'

COMMONWEALTH OF PENNSYLVANIA
DREW DAVID GERARD
ENGINEER
PE031439

Advance Auto Parts
STORE # 108056
7615 Lindbergh Blvd.
Philidelphia, PA. 19153

REVISIONS		
REV	DATE	DESCRIPTION

DATE	GROSS SQ. FT.
7-24-26	8,652 S.F.

PROJECT # 309
DRAWN BY: DK
CHECK BY: BY
VERSION Q1-26 83x83

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Q1-26

FIRE SPRINKLER REMODEL PLAN

FP3