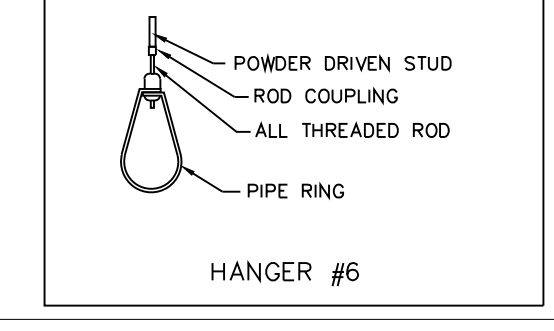
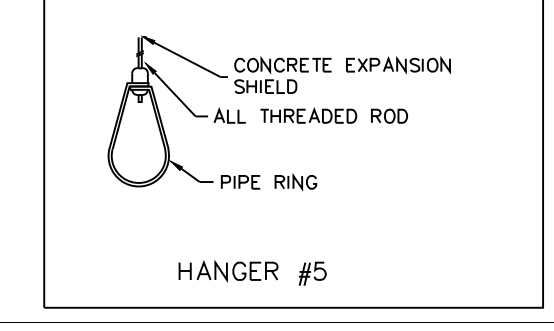
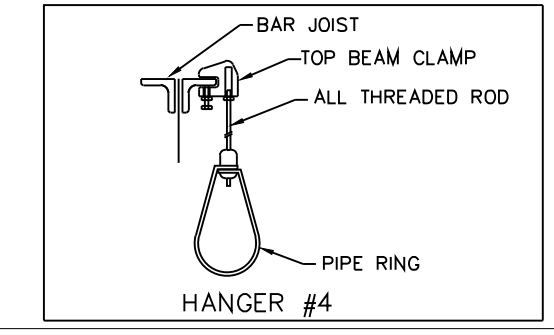
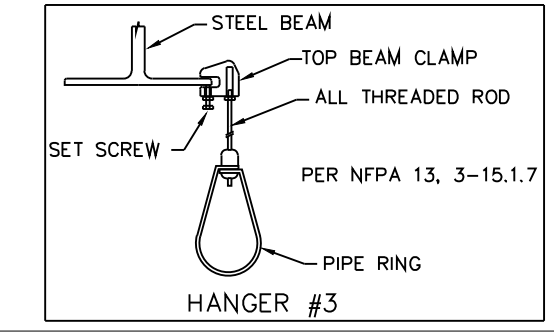
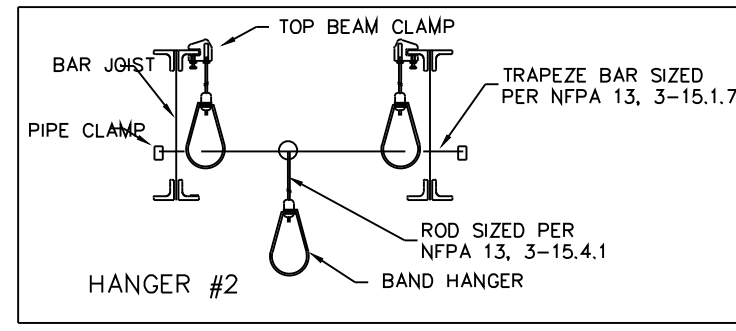
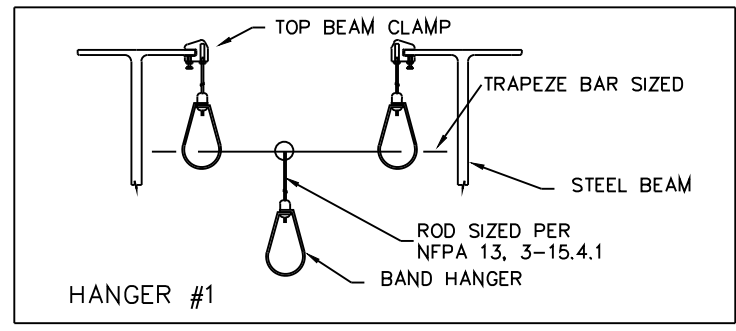
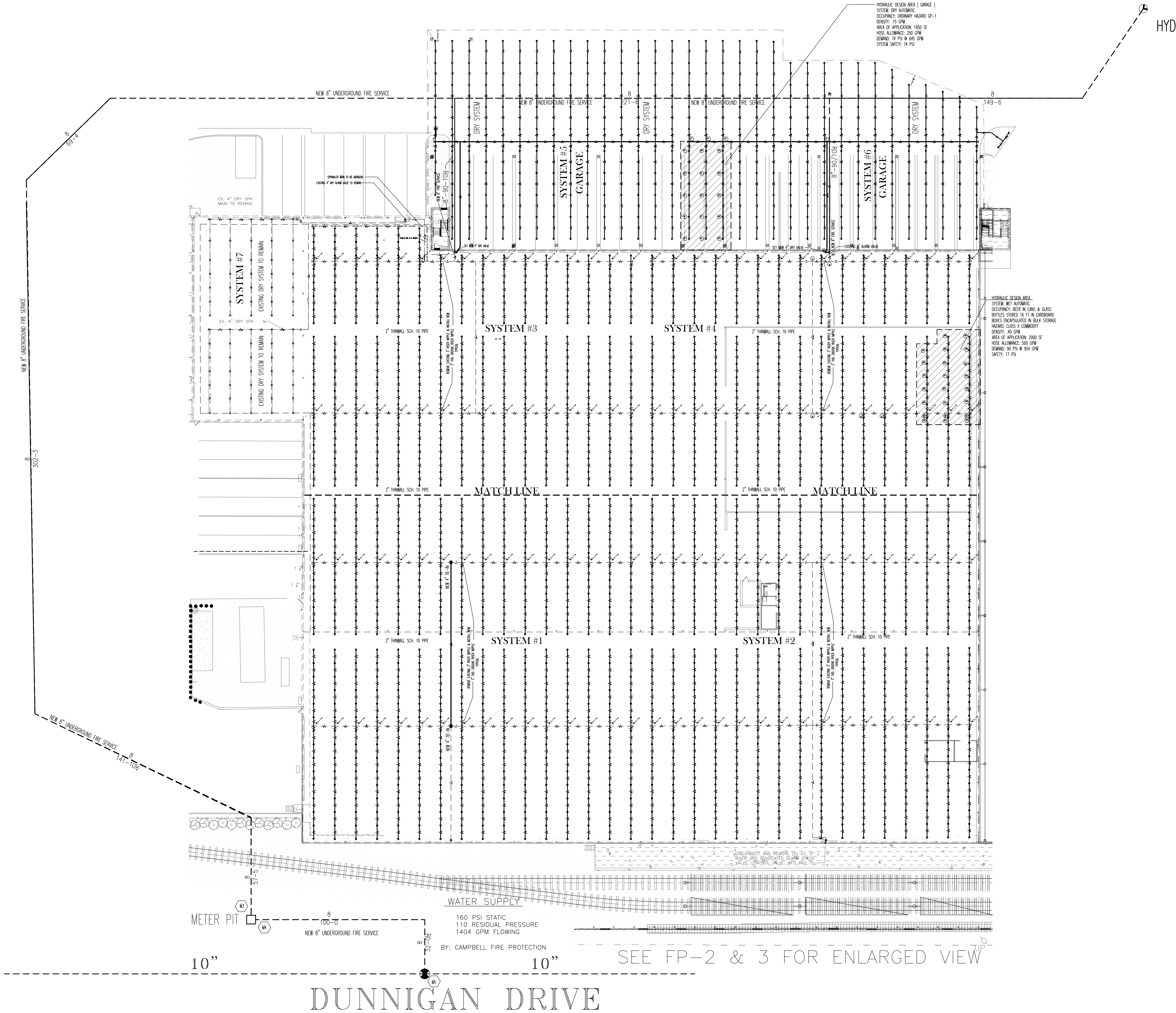


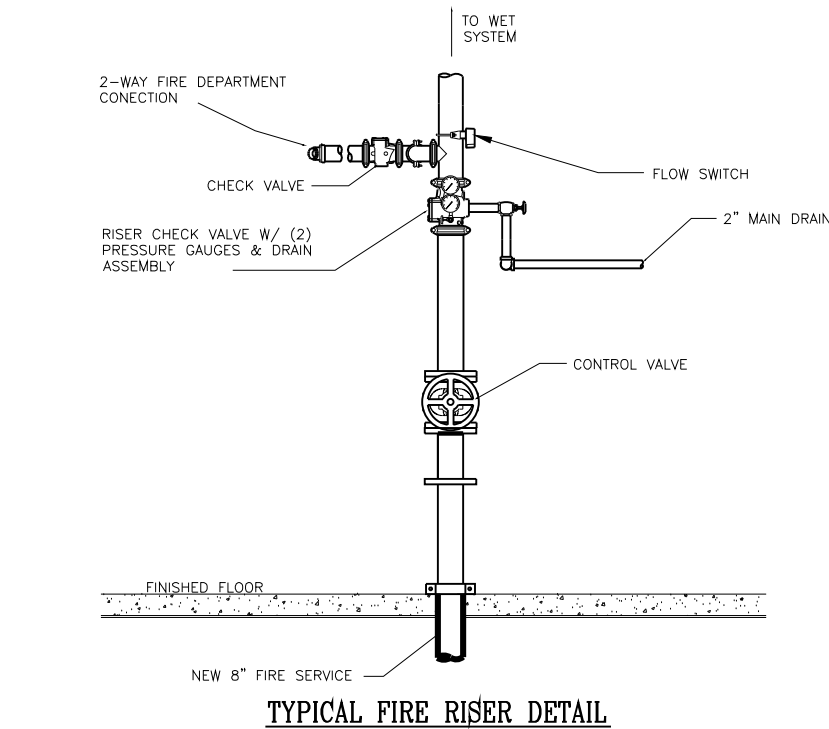
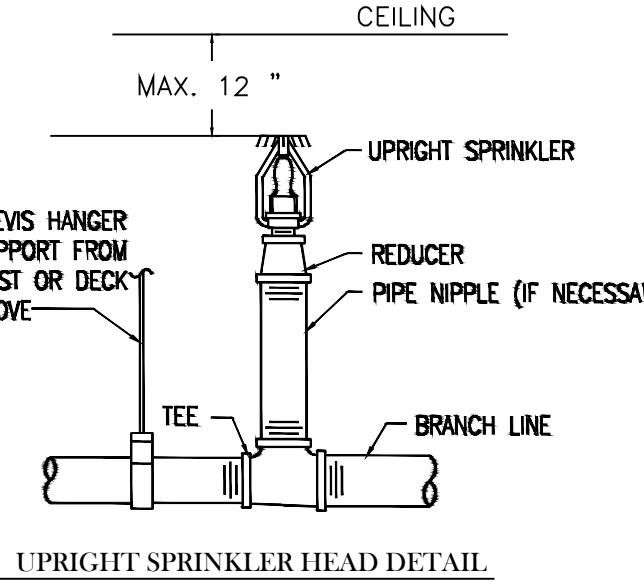


NFPA-13 - TABLE 4-6.2.2.1 MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.)

SPRINKLER TYPE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
N/A	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"

STANDARD HANGER DETAILS PER NFPA # 13

- DESIGN NOTES PER NFPA # 13 (2016 EDITION)
1. TYPE OF CONSTRUCTION : NON COMBUSTIBLE
 2. CEILING HEIGHT : (+) (-) 55 FEET
 3. SYSTEM INSTALLED IN ACCORDANCE WITH NFPA #13-2016
 4. OCCUPANCY: ORDINARY HAZARD-2/ WAREHOUSE FACILITY
 5. SYSTEM TYPE : WET AUTOMATIC SYSTEM
 6. MAKE , MODEL , AND TEMPERATURE OF SPRINKLER HEADS : SEE LEGEND
 7. DENSITY : 40
 8. SPRINKLER (K - FACTOR) : 112
 9. AREA OF SPRINKLER OPERATION: 2000 MIN. SQ. FT
 10. HOSE ALLOWANCE : 500 GPM
 11. RACK ALLOWANCE : N/A
 12. " C " FACTORS USED :
ABOVE GROUND 120
UNDERGROUND 140
 13. FOR WATER SUPPLY: SEE DRAWING
 14. G.P.M. REQUIRED : 954
 15. P.S.I. REQUIRED : 90
 16. ALARM TYPE : BY OWNER
 17. TOTAL NUMBER OF SPRINKLERS : WET 1421 DRY 346
 18. ALL PIPE , VALVES , FITTINGS , HANGERS , SPRINKLERS ,ETC..... TO BE FURNISHED AND INSTALLED PER NFPA REGULATIONS.
 19. ALL PIPE TO BE HUNG IN ACCORDANCE WITH NFPA REGULATIONS.
 20. PIPE TYPE:
ABOVE GROUND MANS 2 1/2" AND LARGER TO BE SCH#10 BLK
ABOVE GROUND BRANCH LINES 1 1/2" THRU 2" TO BE SCH#40 BLK
ABOVE GROUND 1/2" THRU 1 1/4" TO BE SCH#40 BLK
 21. FITTING TYPE:
CLASS 125, ANSI B16.4
CAST IRON FLANGED, ANSI B16.1
ORCHESTRA TEE AND ANGE
 22. FOR HYDRAULIC REFERENCE POINTS: N/A
 23. ALL PIPE, VALVES, FITTINGS, SPRINKLERS, COUPLINGS, ETC..... TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
 24. WHERE SPRINKLER PIPES ARE INSTALLED IN AREAS SUBJECT TO FREEZING, AND AREAS COLDER THAN 40°F, IT IS THE OWNERS RESPONSIBILITY TO PROTECT THE WET PIPE SPRINKLER SYSTEM FROM FREEZING.

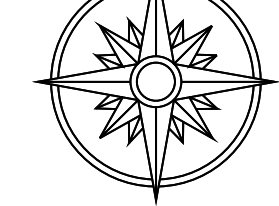


- LEGEND
- (1401) RELIABLE BRASS UPRIGHT SPRINKLER HEAD
MODEL (OLD STANDARD RESPONSE 3/4" NPT 165 DEG K=112
 - (140) RELIABLE BRASS UPRIGHT SPRINKLER HEAD
MODEL # 11 SERIES STANDARD RESPONSE 1/2" NPT 165 DEG K=5.6

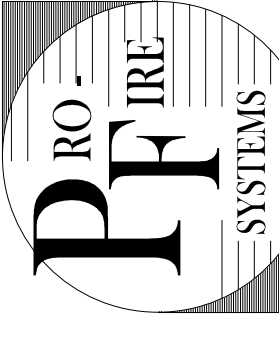
NARRATIVE OF DESIGN
COMMODITY: BEER CANS & BOTTLES STORED TO A HEIGHT OF 16'-0" IN CARDBOARD BOXES (ENCAPSULATED STORAGE)
NFPA #13 REFERENCES:
FOR DESIGN DENSITY REQUIREMENT:
1. NFPA #13-2016 A 5.3.2 ORDINARY HAZARD-2
2. NFPA #13-2016 14.3.5.4 (For Encapsulated Storage)
3. NFPA #13-2016 14.2.4.3 (For Density Reduction)

Campbell Fire Protection Inc
419 Chatham Street
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revised narrative to storage
No. Date & Description
REVISIONS

FIRE PROTECTION SPRINKLER
10 FT. BEER STORAGE WAREHOUSE
MANHATTAN BEER
20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

DRAWING TITLE
PROJECT
DESIGNER
JOB NO.
DATE
SCALE
FILENAME
DWG. NO.

FP-1
of 1