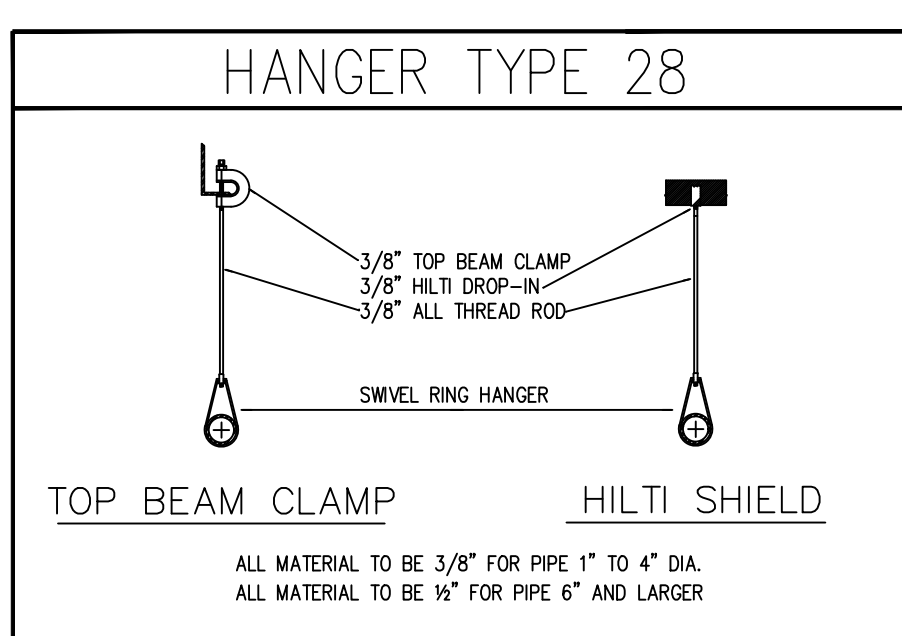
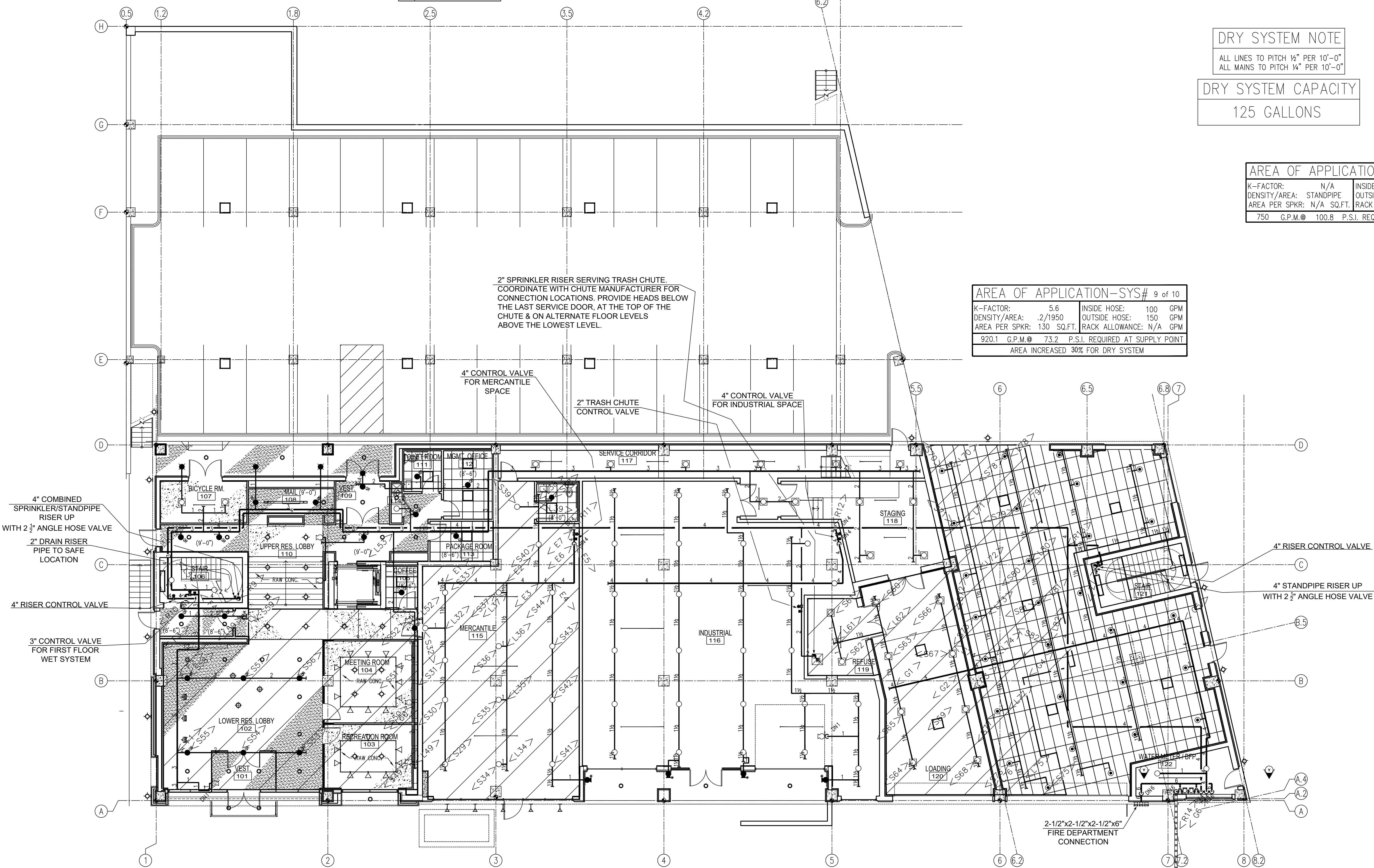


OWNER'S NOTE:
ENTIRE BUILDING MUST MAINTAIN
ABOVE 55° F AT ALL TIMES.



SPRINKLER LEGEND		TEMPERATURE (°F)				SIZE		SN NUMBER
SYM	DESCRIPTION	155	165	175	200	ORF	NPT	
●	RELIABLE MODEL "CS-58" CONCEALED PENDENT SPKR (QUICK RESPONSE TYPE)					1/2"	1/2"	RA3415
⊗	RELIABLE MODEL "FIFR58" UPRIGHT SPRINKLER WITH GAGES (QUICK RESPONSE TYPE)					1/2"	1/2"	RA1425
○	RELIABLE MODEL "FIFR58" UPRIGHT SPRINKLER (QUICK RESPONSE TYPE)					1/2"	1/2"	RA1425
⊕	RELIABLE MODEL "FIFR GRC" EXTENDED COVERAGE SIDEWALL SPRINKLER (QUICK RESPONSE TYPE)					1/2"	1/2"	RA862
●	RELIABLE MODEL "FSOR58" DRY PENDENT SPRINKLER (QUICK RESPONSE TYPE)					1"		RS714
■	VICTAULIC MODEL "VS1" VICIFLEX DRY PENDENT SPRINKLER (QUICK RESPONSE TYPE)					1/2"	1/2"	V3506
■	VICTAULIC MODEL "VS1" VICIFLEX DRY SIDEWALL SPRINKLER (QUICK RESPONSE TYPE)					1/2"	1/2"	V3509
⬅	TRASH CHUTE SPRINKLER							



AREA OF APPLICATION-SYS# 9 of 10	
K-FACTOR:	5.6
DENSITY/AREA:	2/1950
AREA PER SPKR:	130 SQ.FT.
920.1 G.P.M. @ 73.2 P.S.I. REQUIRED AT SUPPLY POINT	
AREA INCREASED 30% FOR DRY SYSTEM	

AREA OF APPLICATION-SYS# 10 of 10	
K-FACTOR:	N/A
DENSITY/AREA:	N/A
AREA PER SPKR:	N/A SQ.FT.
750 G.P.M. @ 100.8 P.S.I. REQUIRED AT SUPPLY POINT	

DRY SYSTEM NOTE
ALL LINES TO PITCH 1/2" PER 10'-0"
ALL MAINS TO PITCH 1/4" PER 10'-0"

DRY SYSTEM CAPACITY
125 GALLONS

3.3.12.5 Manual wet standpipe system - a standpipe system containing water at all times that relies exclusively on the fire department connection to supply the system demand.

5.3.1.3 Class I system - A Class I standpipe system shall provide 2 1/2" hose connections to supply water for use by fire department and those trained in handling heavy fire streams.

Section 5.4.1.1 - Class I standpipe systems shall be permitted to be automatic dry, automatic wet, semiautomatic dry, manual dry, or manual wet in buildings not classified as high-rise buildings.

Section 6.4.5.2 - Each Fire Department Connection shall be designated by a sign, with letters at least 1 in in height, that reads "Manual Wet Standpipe"

Section 7.7.3 - Where a manual system is permitted by Section 5.4 and an attached water supply is provided to supply an automatic sprinkler system or to maintain water in a wet system, the attached water supply shall not be required to satisfy the standpipe system demand.

Section 7.7.4 - When the system demand to be supplied by the fire department at the fire department connection is being determined, the local fire department shall be consulted regarding the water supply available from a fire department pumper.

Section 7.8.1 - Hydraulically designed standpipe systems shall be designed to provide the waterflow rate required by Section 7.10 at a minimum residual pressure of 100 psi (6.9 bar) at the outlet of the hydraulically most remote 2 1/2 in. (63 mm) hose connection.

Section 7.8.1.1 - Manual standpipe system shall be designed to provide 100 Psi at the topmost outlet with the calculations terminating at the fire department connections.

Section 7.10.1.1.1 - For Class I or Class III systems, the minimum flow rate for hydraulically most remote standpipe shall be 500 GPM, through two 2 1/2" outlets.

Section 7.10.1.1.3 - The minimum flow rate for additional standpipes shall be 250 GPM per standpipe.

Section 7.12.3 - Fire Department Connections sizes shall be based on the standpipe system demand and shall include one 2 1/2" inlet per every 250 GPM.

Section 9.1.2 - Manual Standpipe systems shall have an approved water supply accessible to a fire department pumper.

FIRE SPRINKLER NOTES:

CONTRACTOR IS RESPONSIBLE TO INSTALL FIRE SPRINKLER SYSTEM AS PER N.E.P.A. #13 2016 EDITION AND LOCAL A.H.J. REQUIREMENTS.

WHERE ABOVEGROUND WATER-FILLED SUPPLY PIPES, RISERS, SYSTEM RISERS, OR FEED MAINS PASS THROUGH OPEN AREAS, COLD ROOMS, PASSAGEWAYS, OR OTHER AREAS EXPOSED TO FREEZING TEMPERATURES, THE PIPE SHALL BE PROTECTED AGAINST FREEZING BY CONTRACTOR/OWNER USING INSULATING COVERINGS, FROSTPROOF CASINGS, OR OTHER RELIABLE MEANS CAPABLE OF MAINTAINING A MINIMUM TEMPERATURE BETWEEN 40° F & 120° F

SPRINKLERS LOCATED NEAR A HEAT SOURCE OR IN AREAS WHERE THE AMBIENT TEMPERATURE MAY BE HIGH SUCH AS ATTICS, ELECTRIC ROOMS, UNDER SKYLIGHTS, BOILER ROOMS, KITCHENS, ETC. SHALL HIGH TEMPERATURE TYPE.

SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT CONDITIONS.

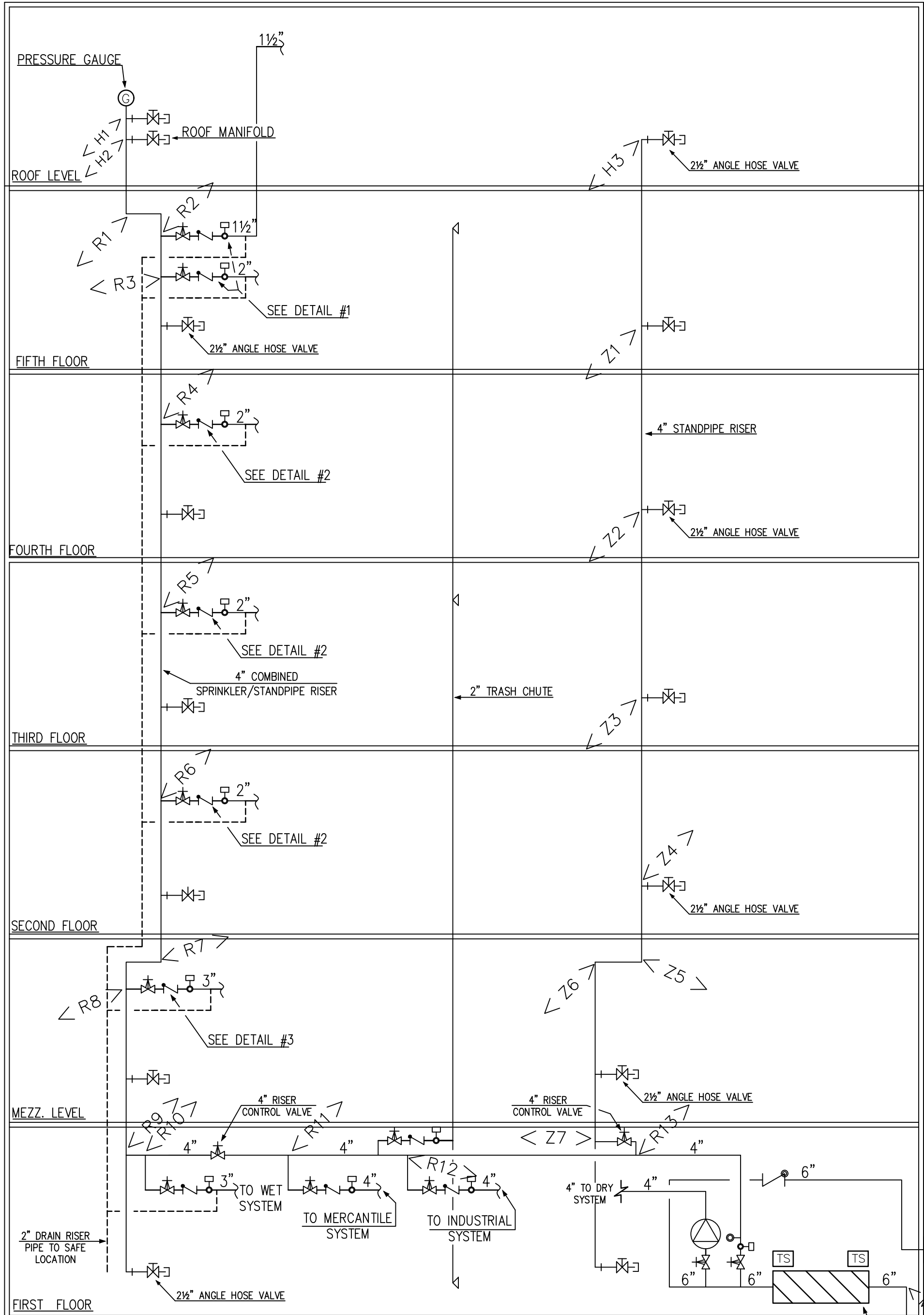
CONTRACTOR IS TO PROVIDE AN ACCURATE SET OF AS-BUILT DRAWINGS TO THE OWNER INDICATING ALL CHANGES MADE IN THE FIELD. THESE AS-BUILT DRAWINGS ARE TO REFLECT ANY ARCHITECTURAL CHANGES THAT ARE NOT SHOWN ON THE PLANS AS WELL AS ALL PIPE CHANGES.

CONTRACTOR IS RESPONSIBLE TO VERIFY WATER SUPPLY PRESSURE.

AS PER N.E.P.A. #13 2016 EDITION, THE OWNER SHALL BE RESPONSIBLE FOR THE CONDITION OF A SPRINKLER SYSTEM AND SHALL KEEP THE SYSTEM IN NORMAL OPERATING CONDITION.

BACKFLOW PREVENTER MUST BE APPROVED BY HEALTH DEPARTMENT BEFORE BEING INSTALLED.

THIS FIRE SUPPRESSION SYSTEM HAS BEEN DESIGNED BASED ON N.E.P.A. #13 2016 EDITION GUIDELINES ON THE DATE INDICATED ON THE DRAWING. FIRE PROTECTION DESIGN, INC. CANNOT BE HELD RESPONSIBLE FOR ANY FUTURE CHANGES OF OCCUPANCY AND/OR MODIFICATIONS TO THE EXISTING FIRE SUPPRESSION SYSTEM AS DESIGNED OR INSTALLED.



RISER DIAGRAM
SCALE: NONE

STANDPIPE SYSTEM HAS BEEN DESIGNED FOR A MANUAL WET STANDPIPE SYSTEM. IT DOES NOT MEET THE 100 PSI REQUIREMENT AT THE TOP MOST OUTLET. THIS MANUAL WET STANDPIPE SYSTEM CONTAINS WATER AT ALL TIMES AND RELIES EXCLUSIVELY ON THE FIRE DEPARTMENT PUMPER TO SUPPLY THE STANDPIPE DEMAND. BY APPROVING THESE PLANS ALL PARTIES ACKNOWLEDGE THIS BUILDING MANUAL WET STANDPIPE SYSTEM.

FIRE DEPARTMENT SIGN NOTE:
DEMAND AT FDC:
(3) HOSE VALVE FLOWING W/ 250 GPM
@ 100 PSI AT THE MOST REMOTE HOSE VALVE
MOST REMOTE HOSE VALVE AT TOP OF STAIRWELL 106.
FIRE DEPARTMENT TO PROVIDE 750 GPM @ 175 PSI

BACKFLOW PREVENTER MUST BE APPROVED
BY WESTCHESTER COUNTRY HEALTH DEPARTMENT
BEFORE BEING INSTALLED

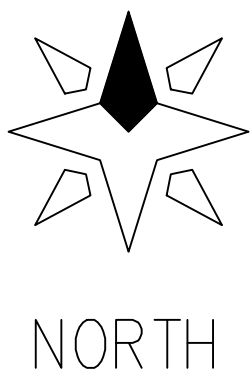
WATER PRESSURE	
STATIC PRESSURE:	98 P.S.I.
RESIDUAL PRESSURE:	90 P.S.I.
GPM FLOWING:	1453 G.P.M.
TEST TAKEN:	12/17/15
BY:	WHITE PLAINS WATER DEPT.

HYDRAULIC CALCULATIONS HAVE BEEN PERFORMED BASED ON THE HYDRANT FLOW TEST TAKEN ON THIS DATE. FIRE PROTECTION DESIGN, INC. CANNOT BE HELD RESPONSIBLE FOR ANY FUTURE CHANGES OR DEPLETION OF THE WATER SUPPLY AND/OR MODIFICATIONS TO THE EXISTING OF THE WATER SUPPLY OR MODIFICATIONS TO THE FIRE SUPPRESSION SYSTEM.

FIRST FLOOR - FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

PIPING NOTE FOR FIRST FLOOR:
ALL 1" PIPE TO BE STEEL - BLACK PIPE SCHEDULE #40
ALL 1 1/2" - 6" PIPE TO BE STEEL - BLACK PIPE SCHEDULE #10

IMPORTANT DISCLAIMER		IMPORTANT		REFERENCE DRAWINGS	
THE NEW YORK STATE EDUCATION LAW PERTAINING TO PROFESSIONAL ENGINEERS AND LAND SURVEYORS ARTICLE 1400, SECTION 2200, REQUIRES THAT A PROJECT INVOLVING THE SAFEGUARDING OF LIFE, HEALTH AND PROPERTY MUST BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER (P.E.) OF THE STATE OF NEW YORK. THE DESIGN OF BACKFLOW PREVENTION DEVICES INSTALLATION IS SUCH A PROJECT, AN ARCHITECT LICENSED IN THIS STATE MAY ALSO DESIGN BY A LICENSED PLUMBER. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO OBTAIN ALL NECESSARY PLUMBING PERMITS, PLANS, REPORTS AND APPLICATIONS TO THE DEPARTMENT OF HEALTH. UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 2209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		IN LOCALITIES SUBJECT TO FREEZING CONDITIONS IT IS THE OWNERS RESPONSIBILITY TO PROVIDE HEAT THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS AND IN ENCLOSURES FOR DRY PIPE, DELUGE AND OTHER TYPES OF VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS.		DWG. NO.	DESCRIPTION
				DATE	REV



DESIGN CRITERIA	
HAZARD: LIGHT & ORD. .1/1500, 2/900, & 2/1950 SQ.FT.	IBC CODE ☐
SPACING: 16'x18', 225' & 130 SQ. FT. MAX.	NYS CODE ☐
PIPE SIZING: HYDRAULIC CALCULATIONS	N.E.P.A.#13 ☐
SYSTEM TYPE: WET/DRY TREE	N.E.P.A.#14 ☐
GENERAL CONSTRUCTION: STEEL & CONCRETE	N.E.P.A.#130 ☐
	N.E.P.A.#13R ☐

SPRINKLER SYMBOLS AND GENERAL NOTES	
--- EXISTING PIPE TO REMAIN	
(X) BRANCH LINE OR MAIN NUMBER	
< 30' > HYDRAULIC REFERENCE POINT	
⊕ RISE SYMBOL UP OR DOWN	
⊕ RISER OR DROP PIECE WITH DIAMETER AND LENGTH	
⊕ SPRINKLER SYSTEM OUTLET OR SYSTEM RISER	
[E] ELEV. FROM UNDERSIDE SLAB TO PIPE IN INCHES	
[F] ELEV. FROM PIPE TO FLOOR IN FEET AND INCHES	

PIPE SCHEDULES	
MAINS	LINES
SCH. 40 ☐	SCH. 40 ☐
SCH. 10 ☐	SCH. 10 ☐
CALV.40 ☐	CALV.40 ☐
CALV.10 ☐	CALV.10 ☐
CPVC PIPE ☐	CPVC PIPE ☐
COPPER "L" ☐	COPPER "L" ☐
PEX TUBING ☐	PEX TUBING ☐

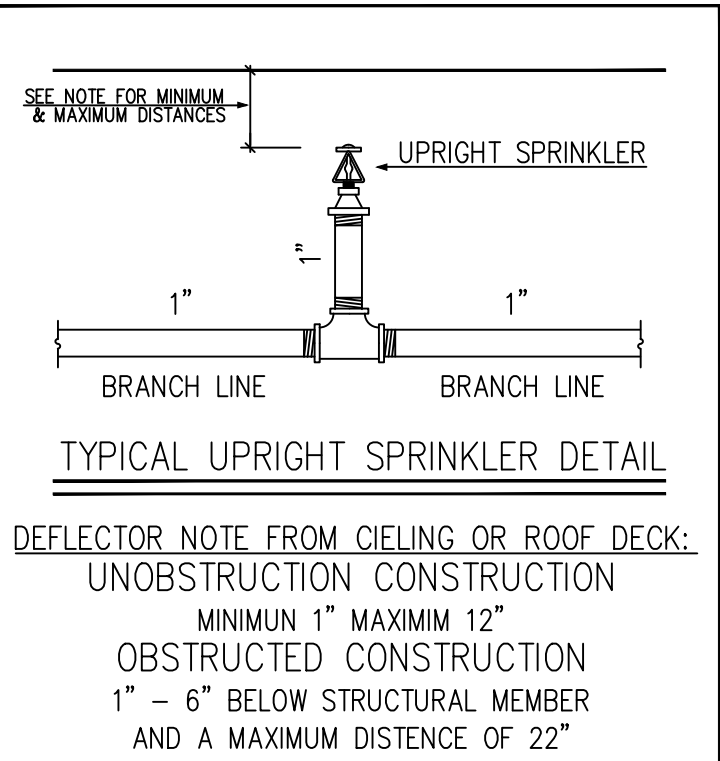
THIS DRAWING REPRESENTS THE DRAFTING WORK PERFORMED BY FIRE PROTECTION DESIGN, INC. HEREINAFTER KNOWN AS FPD, INC. ONCE THIS DRAWING LEAVES OUR OFFICE WE HAVE NO CONTROL OVER ANY CHANGES MADE TO THE BLUEPRINTS AND/OR COPIES OF THE ORIGINAL DRAWING. FPD, INC. IS NOT RESPONSIBLE FOR THE INSTALLATION AND CANNOT BE HELD RESPONSIBLE FOR ANY CLAIMS THAT MAY ARISE FROM THE INSTALLATION OF THIS SYSTEM. THE OWNER, GENERAL CONTRACTOR, SUB-CONTRACTOR OR ANY PERSON OR ENTITY WHICH ACQUIRES OR OBTAINS THIS DRAWING SHALL TO THE FULLEST EXTENT PERMITTED BY LAW, INDemnIFY AND HOLD FIRE PROTECTION DESIGN, INC. AND ITS OFFICES, EMPLOYEES AND SUBSIDIARIES HARMLESS FROM ANY DAMAGE, LIABILITY OR COST, INCLUDING REASONABLE ATTORNEY FEES AND COST OF DEFENSE, ARISING FROM ANY RE-USE OR MODIFICATIONS MADE TO THIS DRAWING AND/OR INSTALLATION OF THIS SYSTEM. IN NO EVENT SHALL FPD, INC. BE LIABLE FOR ANY LOSS OF INCOME, PROFITS OR ANY DAMAGES, FPD'S TOTAL LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS DRAWING WILL NOT EXCEED THE TOTAL AMOUNT OF OUR CONTRACT. FURTHERMORE BY ACCEPTING THIS DRAWING THE OWNER, GENERAL CONTRACTOR, SUB-CONTRACTOR OR ANY PERSON OR ENTITY WHICH ACQUIRES OR OBTAINS THIS DRAWING ACCEPTS AND AGREES TO THE TERMS OUTLINED HEREIN.

IMPORTANT DISCLAIMER

NICET or P.E. SEAL

NO		REVISIONS	DATE	BY
PAPP ARCHITECTS				
188 EAST POST ROAD WHITE PLAINS, NEW YORK 10601				
WESTMORELAND LOFTS				
FIRST FLOOR FIRE SPRINKLER PLAN				
136-158 WESTMORELAND AVENUE WHITE PLAINS, NEW YORK 10606				
PLANS DRAWN BY				
FIRE PROTECTION DESIGN, INC.				
(845)834-2133 NICET CERTIFIED (845)834-2144				
2021-C-966 1 OF 3				
SCALE: 1/8"=1'-0" DRAWN: 3/22/21 BY: M.K.				

AREA OF APPLICATION-SYS# 4 OF 10			
K-FACTOR: 4.9/4.4		INSIDE HOSE: N/A GPM	
DENSITY/AREA: .1/4 SPKR		OUTSIDE HOSE: N/A GPM	
AREA PER SPKR: 16'x20' SQ.FT.		RACK ALLOWANCE: N/A GPM	
105.8	G.P.M. @	82.2	P.S.I. REQUIRED AT SUPPLY POINT



AREA OF APPLICATION-SYS# 7 OF 10			
K-FACTOR:	4.9/4.4	INSIDE HOSE:	N/A GPM
DENSITY/AREA:	.1/4 SPKR	OUTSIDE HOSE:	N/A GPM
AREA PER SPKR:	16'x18' SQ.FT.	RACK ALLOWANCE:	N/A GPM
69.6	G.P.M. @	63.5	P.S.I. REQUIRED AT SUPPLY POINT

[illegible]

PIPING NOTE FOR SECOND - FOURTH FLOOR:
ALL 1" - 1½" PIPE TO BE STEEL - BLACK PIPE SCHEDULE #40
ALL 2" - 4" PIPE TO BE STEEL - BLACK PIPE SCHEDULE #10

SCALE: $\frac{1}{8}'' = 1'-0''$

AREA OF APPLICATION-SYS# 5 of 10			
K-FACTOR:	5.6	INSIDE HOSE:	100 GPM
DENSITY/AREA:	2/900	OUTSIDE HOSE:	150 GPM
AREA PER SPKR:	130 SQ.FT.	RACK ALLOWANCE:	N/A GPM
574.8	G.P.M. @ 74.1	P.S.I. REQUIRED AT SUPPLY POINT	
AREA REDUCED 40 % FOR QUICK RESPONSE SPRINKLERS			

4" STANDPIPE RISER UP

----- (C) -----

4" STANDPIPE RISER DOWN
WITH 2 1/2" ANGLE HOSE VALVE

SCALE: $\frac{1}{8}'' = 1'-0''$

ALL 1" PIPE TO BE STEEL - BLACK PIPE SCHEDULE #40
ALL 1½" - 4" PIPE TO BE STEEL - BLACK PIPE SCHEDULE #10

MEZZANINE LEVEL FIRE SPRINKLER HEAD LEGEND										
SPRINKLER LEGEND		TEMPERATURE (°F)					SIZE			SN NUMBER
SYM	DESCRIPTION	155	165	175	200	212	ORF	NPT	K	
●	RELIABLE MODEL "G5-60" CONCEALED PENDENT SPRKR (QUICK RESPONSE TYPE)						3"	3"	5.6	RA3415
☐	RELIABLE MODEL "FTR56" UPRIGHT SPRINKLER WITH CAGES (QUICK RESPONSE TYPE)						3"	3"	5.6	RA1425
■	VICTAULIC MODEL "VS1" VICFLEX DRY PENDENT SPRINKLER (QUICK RESPONSE TYPE)						3"	3"	5.6	V3506

NO	REVISIONS	DATE	BY

PAPP ARCHITECTS

188 EAST POST ROAD WHITE PLAINS, NEW YORK 10601

WESTMORELAND LOFTS

MEZZANINE - FOURTH FLOOR FIRE	SPRINKLER PLAN
136-158 WESTMORELAND AVENUE	WHITE PLAINS, NEW YORK 10606

PLANS DRAWN BY	JOB NO	DWG NO
<i>FIRE PROTECTION DESIGN, INC.</i>	2021-C-966	2 OF 3
(845)834-2133 NICET CERTIFIED (845)834-2144		

SCALE: 1/8" = 1" - 0"	DRAWN: 3/22/21 BY: M.K.	SPKR COUNT
		THIS DWG
		TOTAL

