

777 Old Saw Mill River Road
Tarrytown, NY 10591-6707
T: 914.847.7400
F: 914.847.7991
www.regeneron.com

Building #17
Campus Expansion Child
Day-care Center

777 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

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Gensler
1700 Broadway, Suite 400
New York, NY 10019
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Structural Engineer
Thornton Tomasetti
120 Broadway, 15th Floor
New York, NY 10021
(917) 661-7800 Phone
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates
498 Seventh Avenue
New York, NY 10018
(212) 615-3600 Phone
(212) 615-3700 Fax

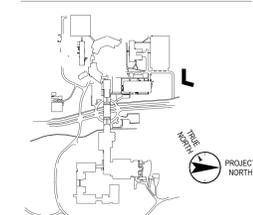
Civil Engineer

JMC
120 Bedford Road
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(914) 273-2102 Fax

Landscape Architect

Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax

Key Plan



No. Date Description

0 05.20.2022 ISSUED FOR PERMIT

Plot Date: 11/23/21

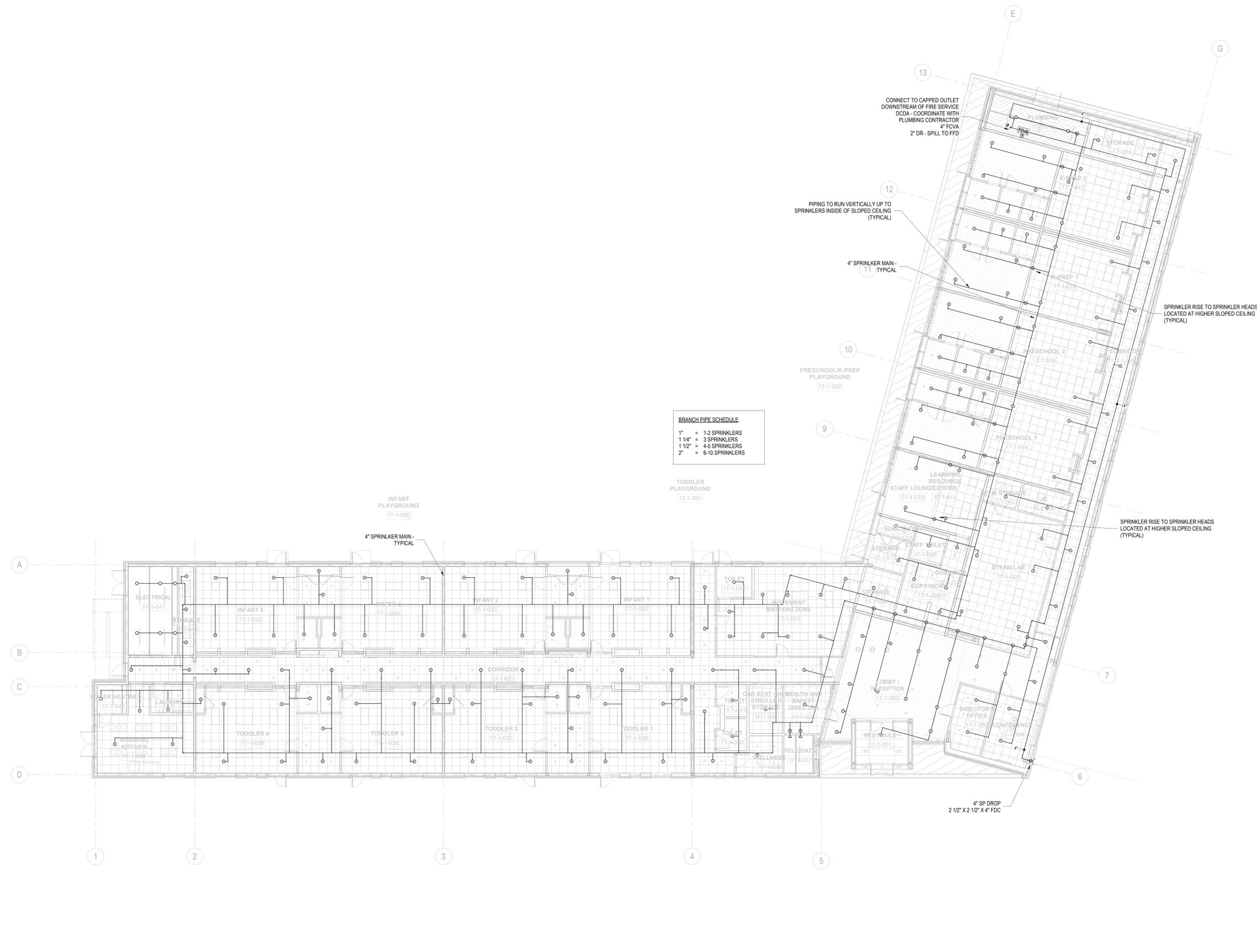
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 151-210104
Discipline: Fire Protection
Drawn By: DH
FIRE SUPPRESSION 1ST FLOOR PLAN

Scale: 1/8" = 1'-0" **Floor:** 1ST

FX-101



BRANCH PIPE SCHEDULE

1"	= 1-2 SPRINKLERS
1 1/4"	= 3 SPRINKLERS
1 1/2"	= 4-5 SPRINKLERS
2"	= 6-10 SPRINKLERS

1 LEVEL 1 FIRE PROTECTION RCP
1/8" = 1'-0"

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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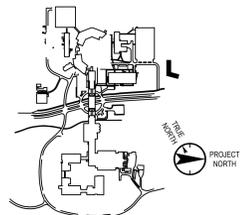
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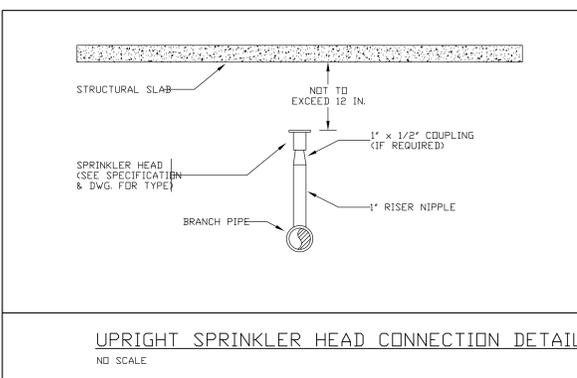
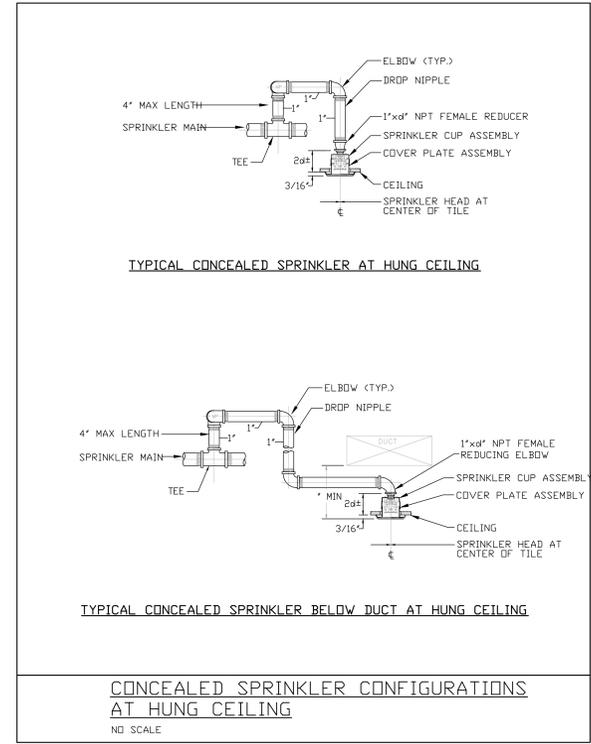
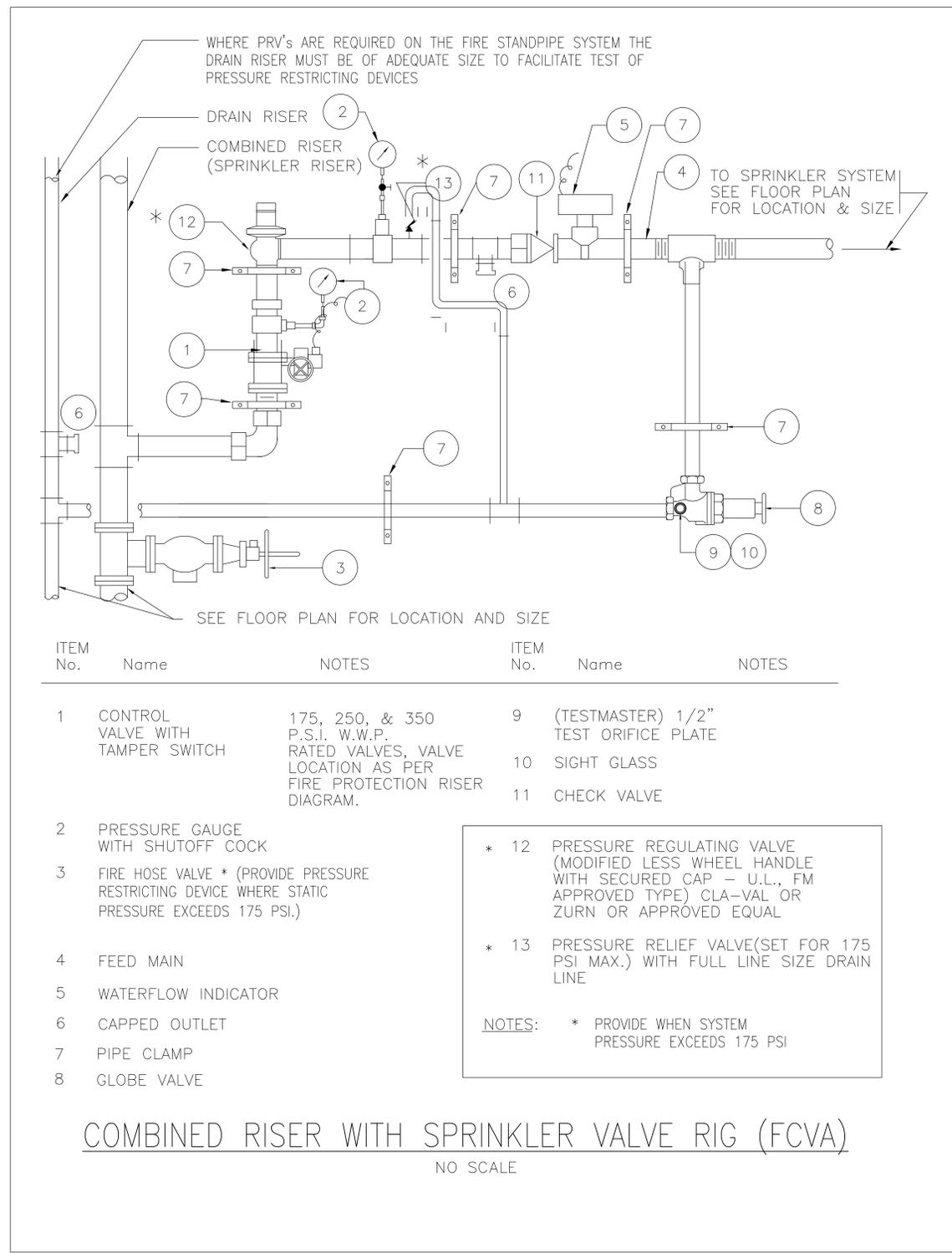
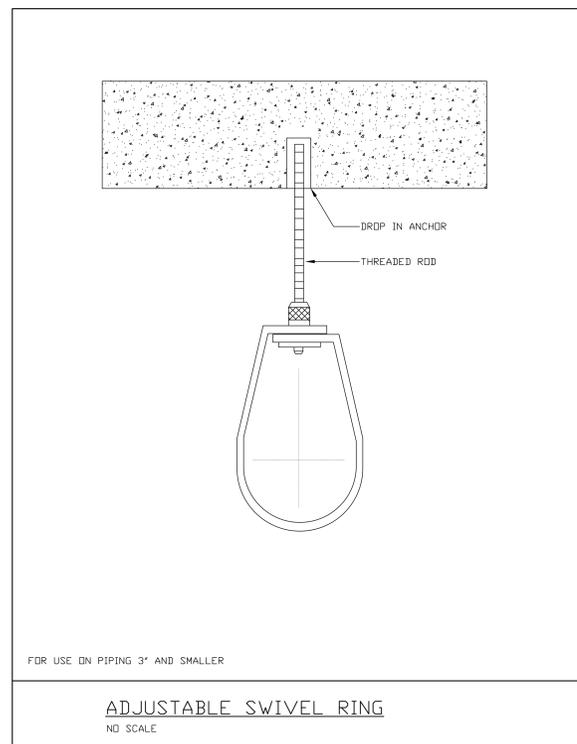
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 151-210104
Discipline: FIRE SUPPRESSION Drawn By: DH
**FIRE SUPPRESSION
DETAILS**

Scale: NTS Floor: N/A

FX-500



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SCHEDULE 40 PIPE - VICTAULIC COUPLING & FITTING SCHEDULE				SPECIFICATIONS												SERVICE & LOCATION				SEE NOTES											
COUPLINGS	VICTAULIC FTG. No.	SIZE	TYPE	GROOVED	HOLE CUT	PIT	PLAIN END	VIC RING	150#WMP	175#WMP	200#WMP	250#WMP	300#WMP	350#WMP	400#WMP NOTE A	450#WMP NOTE B & D	500#WMP NOTE B & C	600#WMP	700#WMP	750#WMP	REFER TO GENERAL NOTE #1	REQUIRED	SPKR SYSTEM	FSP	IN-COMING SERVICE	RISERS	HORIZONTAL RUN	NOT PERMITTED	SEISMIC REQUIREMENTS	EXPANSION JOINTS	
					07 ZERO-FLEX	1"-4"	RIGID	•	•	•	•	•																			
	07 ZERO-FLEX	5"-6"	RIGID	•	•	•	•	•																							
	07 ZERO-FLEX	8"	RIGID	•	•	•	•	•																							
	07 ZERO-FLEX	10"	RIGID	•	•	•	•	•																							
	07 ZERO-FLEX	12"	RIGID	•	•	•	•	•																							
	07 ZERO-FLEX	14"-20"	RIGID	•	•	•	•	•																							
	005 FIRELOCK	2"-6"	RIGID	•	•	•	•	•																							
	009 FIRELOCK	1 1/4"-4"	RIGID	•	•	•	•	•																							
	HP-70	2"-8"	RIGID	•	•	•	•	•																							
	HP-70	10"-12"	RIGID	•	•	•	•	•																							
	77	3/4"-6"	FLEXIBLE	•	•	•	•	•																							
	77	8"-12"	FLEXIBLE	•	•	•	•	•																							
	77	14"-22"	FLEXIBLE	•	•	•	•	•																							
	75	1 1/2"-4"	FLEXIBLE	•	•	•	•	•																							
	75	4 1/2"-8"	FLEXIBLE	•	•	•	•	•																							
	741	2"-12"	VIC-FLANGE ADAPTER	•	•	•	•	•																							
	743	2"-12"	VIC-FLANGE ADAPTER	•	•	•	•	•																							
	791	2"-4"	BOLTLESS	•	•	•	•	•																							
	791	6"	BOLTLESS	•	•	•	•	•																							
	791	8"	BOLTLESS	•	•	•	•	•																							
	750	-	REDUCING	•	•	•	•	•																							
	72	1" - 2"	OUTLET UL/FM APPROVED SIZE & PRESSURE	•																											
TEST & DRAIN	720	1 1/4"-2"	GROOVED ENDS																												
FITTINGS	-	-	-																												
	10, 11, 12, 13	-	ELBOWS																												
	50, 52	-	REDUCERS																												
	20	-	TEES																												
	25, 29	-	REDUCING TEES																												
	85	-	CROSS																												
	920N	-	MECH TEE SIZE & PRESSURE UL/FM APPROVED																												
	920N	-	MECH TEE																												
927	-	STANDPIPE VALVE TEE																													

NOTES:
 'A' 007 ZEROFLEX UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 350 PSI WMP
 'B' 007 ZEROFLEX UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 400 PSI WMP
 'C' 77 UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 450 PSI WMP
 'D' 75 UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 450 PSI WMP

GENERAL NOTE:
 1. FITTINGS AND PRESSURE RATINGS ARE UL LISTED. REFER TO MANUFACTURER FOR FACTORY MUTUAL APPROVED FITTING PRESSURE RATING.

FIRE PROTECTION MATERIAL SCHEDULE																						
SYSTEM	PIPE	FITTINGS	JOINTS	REQUIRED																		
BURIED BUILDING FIRE SERVICE				TYPE 'K' OR 'L' COPPER TUBING	DUCTILE IRON	CAST IRON W/FR PIPE	STEEL SCHED 10	STEEL SCHED 20	STEEL SCHED 40	BLACK	GALVANIZED	CEMENT LINED	MALLEABLE IRON	CLASS D	BLACK	GALVANIZED	DUCTILE IRON	WROUGHT COPPER	MECH JOINT-FLANGED	VICTAULIC	CALULKED	BRAZED
FIRE STANDPIPE																						
SPRINKLER (SEE NOTE 3)																						
SPRINKLER (SEE NOTE 4)																						
SPRINKLER DRAIN PIPE																						
DRY SPRINKLER																						
PRE-ACTION SPRINKLER (SEE NOTE 5)																						

SCHEDULE OF SPRINKLER HEADS											
SYMBOL	MANUFACTURER & MODEL No.	TYPE	LOCATION	FINISH & REMARKS	TEMP. RATING	'K' FACTOR	SP. HD. COVERAGE	ORIFICE	MIN. FLOW	MIN. PRESS.	APPROVALS
⊙	"VIKING" MDEL VK3021 QUICK RESPONSE RECESSED NP-2	RECESSED PENDENT	FINISHED CEILINGS WHERE INDICATED ON PLANS	AS APPROVED BY ARCHITECT	155°	5.6	UP TO 15'X15'	1/2"	0.10 GPM/SQ. FT.	7#	FM CLASS 2015, 2017, & 2043
○	"VIKING" MICROFAST MDEL VK300 QUICK RESPONSE UPRIGHT	UPRIGHT	EXPOSED CEILINGS INDICATED ON PLANS	AS APPROVED BY ARCHITECT	155°	5.6	UP TO 15'X15'	1/2"	0.10 GPM/SQ. FT.	7#	FM CLASS 2002 & 2020
◊	"VIKING" MICROFAST MDEL VK305 QUICK RESPONSE HORIZONTAL SIDEWALL	EXPOSED SIDEWALL	TEL/DATA ROOM	AS APPROVED BY ARCHITECT	155°	5.6	UP TO 14'X14'	1/2"	0.10 GPM/SQ. FT.	7#	FM CLASS 2020

NOTES:
 1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
 2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER HVAC DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" A.F.F.
 3. ALL SPRINKLER HEADS THROUGHOUT THE FACILITY SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:
 a. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, STEAM PIPING OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA 13.
 b. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.
 4. SPRINKLER HEADS MINIMUM FLOW & MINIMUM PRESSURE REQUIREMENTS TO BE BASED ON HYDRAULIC CALCULATION DESIGN DENSITIES.
 5. ALL SPRINKLER HEAD FINISHES TO BE APPROVED BY ARCHITECT.
 6. COORDINATE ALL SPRINKLER COLOR FINISHES WITH ARCHITECT. SEE ARCHITECTURAL REFLECTED CEILING NOTES.

FIRE PROTECTION VALVE SCHEDULE																																
TYPE	MANUFACTURER	FIG. NO.	SIZE	VALVE SPECIFICATION																												
				THREAD	FLANGED	GROOVED	GATE VALVES	N.R.S.	BRONZE B-61	BRONZE B-62	CAST IRON A-126	CAST STEEL A-216	RESILIENT WEDGE	MECHANICAL JOINT	DUCTILE IRON A-536	UL/FM	NFC BSA/NEA	UL LISTED FOR TRIM & DRAIN	INDICATOR POST	WALL POST	75# WWP	200# WWP	300# WWP	350# WWP	400# WWP	500# WWP	600# WWP	750# WWP	1000# WWP	1480# WWP		
GATE VALVES	N	T-104-0	1/2"-2"	•																												
	N	F-607-RW	2 1/2"-12"	•																												
	N	M-609-RW	4"-12"	•																												
	N	F-609-RW	4"-12"	•																												
	N	F-667-0	2"-12"	•																												
	N	F-697-0	2 1/2"-10"	•																												
	N	G-607RW	3"-8"	•																												
	N	F-607OTS	2 1/2"-12"	•																												
	C	76	2"-12"	•																												
	N	KT-403-W	1/2"-3"	•																												
CHECK VALVES	N	F-908-W	2 1/2"-12"	•																												
	N	F-968-B	2 1/2"-6"	•																												
	N	G-917W	2 1/2"-6"	•																												
	C	175	2"-12"	•																												

