GENEF 1. 2. 3. 4. 5.	 RAL FIRE PROTECTION NOTES ALL WORK AND MATERIAL NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE PROVIDED BY THE FIRE PROTECTION SPRINKLER CONTRACTOR AND SUBJECT TO THE APPROVAL BY THE ARCHITECT/ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION. NOTE: ALL MATERIAL FOR THE COMPLETE FIRE PROTECTION SYSTEM MUST BE U/L, F.M. AND BS&A/MEA N.Y.C. APPROVED TYPE. WHERE, DUE TO UNION REGULATIONS OR TRADE AGREEMENTS, ANY OF THE WORK SHOWN ON THE PROTECTION CONTRACTOR'S WORK, THE FIRE PROTECTION CONTRACTOR SHALL SUBJECT ON CONTRACTOR'S WORK, THE FIRE PROTECTION CONTRACTOR SHALL SUBCONTRACT THIS WORK IN QUESTION, BUT THE FIRE PROTECTION CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COMPLETE INSTALLATION. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY COOPERATIVE AND TO AGREE, BUT SHOULD ANY DISCREPANCY OR APPARENT DIFFERENCES OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS OR SHOULD OCCUR IN THE WORK OF OTHERS AFFECTING THE WORK, THE FIRE PROTECTION SYSTEMS, THE F.P. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AT ONCE. IF THE FIRE PROTECTION CONTRACTOR PROCEEDS WITH THE AFFECTED WORK WITHOUT INSTRUCTIONS FROM THE ARCHITECT/ENGINEER AT ONCE. IF THE FIRE PROTECTION CONTRACTOR PROCEEDS WITH THE AFFECTED WORK WITHOUT INSTRUCTIONS FROM THE ARCHITECT/ENGINEER AT ONCE. IF THE FIRE PROTECTION CONTRACTOR PROCEEDS WITH THE AFFECTED WORK WITHOUT INSTRUCTIONS FROM THE ARCHITECT/ENGINEER AT ONCE. IF THE FIRE PROTECTION CODES AT HIS OWN EXPENSE. ALL MISUNDERSTANDINGS OF DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED BY THE ARCHITECT/ENGINEER. ANY AND ALL SPRINKLER HEADS PLACED IN LOCATION WHERE THEY ARE LIABLE PROVIDED WITH HEAVY WIRE GUARDS. SPRINKLER HEADS, IN GENERAL, SHALL HAVE ORDINARY DEGREE TEMPERATURE RATING, UNLESS OTHERWISE NOTED. ALL HEADS SUBJECT TO ABNORMAL CONDITIONS, AS THOSE IN VICINITY OF HEATING UNITS, BOILERS, OR VERY CLOSE TO HOT PIPING, SHALL BE OF SUFFICIENTLY HIG	15. 16. 17.	THE FIRE PROTECTION CONT CALCULATIONS AND SUBMIT CALCULATIONS SHALL BE PR AND REQUIREMENTS SPECIFI FOR AS MANY AREAS OF APP REQUIRED TO DEMONSTRATE ENGINEER THAT THE WHOLE INDICATED ON THIS DRAWIN BEFORE STARTING ANY WORK THE ARCHITECT'S DETAILED AND HEADROOM ALLOWED FOR ETC. SHOULD ANY PIPING FOR, OR ENCROACH UPON SU PLANNED, THE FIRE PROTEC ENGINEER'S ATTENTION TO THE WORK. REDUCING TYPE COUPLINGS F OTHER APPROVED EQUAL) FI "PLAINLOCK" COUPLINGS WI THE FIRE PROTECTION CONT MEMBERS, HANGERS AND SUP PROPER ALIGNMENT AND PRE VIBRATIONS. IN ALL CASE FROM CONCRETE CONSTRUCTI OR PENETRATE WATERPROOFI OF SCREW ADJUSTMENT AFTE EXPANDING INTO LOOPS, BE BUILDING STRUCTURE IN SU PERPENDICULAR TO THE RUN DISPLACEMENT DUE TO EXPA ADJUSTED, BOTH IN THE VE
11. 12.	 SPRINKLER HEADS IN ALL AREAS ARE TO BE INSTALLED IN THE CENTER OF THE TILE, AND CENTERED WITH LIGHTS, DIFFUSERS OR SIMILAR ELEVENTS AS INDICATE DO ARCHITECTURAL REFLECTED CEILING POWINGS. SPINKLER HEADS SHALL ALSO BE INSTALLED ON A TRUE AXIS LINE IN BOTH DIRECTIONS WITH A TOLERANCE OF +/ 1/2". AT THE COMPLETION OF THE INSTALLED INDIRATION, IF ANY SPRINKLER HEADS ARE FOUND TO EXCEED THE ABOVE SPECIFIC DI CONTRACTOR SHALL RELOCATE ALL SPRINKLER HEADS THAT ARE NOT INSTALLED PROPERLY. ANY ADJOINING WORK OF ANOTHER TRADE THAT ARE NOT INSTALLED PROPERLY. ANY ADJOINING WORK OF ANOTHER TRADE THAT ARE NOT INSTALLED PROPERLY. ANY ADJOINING WORK OF ANOTHER TRADE THAT ARE NOT INSTALLED PROPERLY. ANY ADJOINING WORK OF THORQUGHLY DRAINED. ON DRY-PIPE SYSTEMS, BRANCH LINES SHALL BE PITCHED TAY AN PE THORQUGHLY DRAINED. ON DRY-PIPE SYSTEMS, BRANCH LINES SHALL BE PITCHED 1/4" IN 10' MINIMA. ALL FIRE PROTECTION SYSTEMS DRAIN LINES MALL BE PITCHED 1/4" IN 10' MINIMA. ALL FIRE PROTECTION SYSTEMS DRAIN LINES MALL BE PITCHED 1/4" IN 10' MINIMA. ALL FIRE PROTECTION SYSTEMS DRAIN LINES MALL BE PITCHED 1/4" IN 10' MINIMA ALL FIRE PROTECTION SYSTEMS DRAIN LINES MALL BE PITCHED TO AS SYALL DRAINNER RECEIVALES SUCH AS FLOOR DRAINS, SPRINKLER PUNNEL PROVINED DRAWING. INSTALL O.S.AY. TYPE GATE VALVES AND OTHER TYPES OF VALVES IN HORIZONTAL POSITION (WITH STEMS POINTED DRAWINAR). INSTALLATION OF CHECK VALVES: INSTALL DETWEEN 2 FLANGES IN HORIZONTAL DOSTION OF CHECK VALVES: INSTALL BETWEEN 2 FLANGES IN HORIZONTAL OR VERTICAL POSITION. WITH HINGE PIN LOCATED ON THE UPSIDE OF THE PIPE AND PERPENDICULAR TO THE PIPE'S CENTERLINE. WAFFR CHECK VALVES: INSTALL BETWEEN 2 FLANGES IN HORIZONTAL OR VERTICAL POSITION. CONTRACTOR NEADY AND THE UPSIDE OF THE PIPE AND PERPENDICULAR TO THE PIPE'S CENTERLINE. WAFFR CHECK VALVES: INSTALL BETWEEN 2 FLANGES IN HORIZONTAL OR VERTICAL POSITION. CONTRACTOR SHALL BE STED IN THE PROSENCE OF THE ARCHITECTION CONTRACTOR, SAND THE DRAIN PIPING. ALL STAMESE FIRE DEFT.	19. 20. 21. 22.	 A. PIPING SHALL NOT BE B. TRAPEZE TYPE HANGERS CHANNELS BOLTED BACK PIPING. TRAPEZE TYPE RODS HAVING DOUBLE N INSERTS, BEAM CLAMPS SCREWS OR OTHER APPE SUPPORTING PIPING AT SUPPORTED BY TRAPEZE CLAMPS. C. PROVIDE NECESSARY LC AND CROSS MAINS. INE DRAWINGS. SUBMIT AL D. SUPPORTS FOR VERTICA WITH EACH END HAVING EXISTING RISERS AND LARGER AS REQUIRED E OTHER LOCATIONS AS F SECURE TOP OF EACH F E. USE OF "C"-TYPE CLAM TO A BUILDING STRUCT OR WITHOUT RETAINING STRUCTURE IS PROHIBI F. THE ARCHITECT/ENGINE BUILDING STRUCTURE IS PROHIBI IN THESE NOTES, AND ARE PROPERLY AND PER WATERFLOW DETECTORS SHAL OR HORIZONTAL PIPING, BL WITHIN MINIMUM DISTANCE, RECOMMENDATIONS, OF ANY FLOW. RISER AND BRANCH ASSEMBL AT LOCATIONS AS DIRECTED FOR THE AUTOMATIC ANNUNC ASSEMBLY AND ITS APPURTE APPROVED MANNER THAT THE (DUE TO SURGES OR RELATE DIRECT CONNECTION FROM A STORM DRAINAGE SYSTEM SH SPRINKLER HEADS INSTALLE PROHIBITED. A. TESTS ARE NOT PERMIT SPECIFICALLY INDICAT B. THIS CONTRACTOR SHAL FITTINGS DURING EREC PERFORMING SYSTEMS TO C. ALL PIPING WHICH IS CEILINGS SHALL BE TE CONSTRUCTION SUPERVENTION SUPERVENTION AS REQUIRED TO PREVENTION SUPERVENTION SUPERVENTI
1. 2. 3. 4. 5. 6. 7. 8. 9.	A SPRINKLER SYSTEM. THE ENTIRE FACILITY SHALL BE FULLY SPRINKLERED INCLUDING ELECTRICAL AND TELEPHONE CLOSETS (AND OTHER SELECT AREAS INDICATED ON THE CONTRACT DRAWINGS), EXCEPT ELEVATOR MACHINE ROOMS AND SWITCHEGAR SPACES AND OTHER AREAS WITH THE (N.A.S.) "NO AUTOMATIC SPRINKLERS" NOTE. ALL AREAS WITHOUT AUTOMATIC SPRINKLER PROTECTION SHALL BE PROVIDED WITH SMOKE DETECTORS (SMOKE DETECTORS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR). SEE ELECT./TELE. SPACES NOTE, THIS DRAWING. IN AREAS WITH SUSPENDED CEILINGS, REFER TO THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT SPRINKLER HEAD LOCATIONS, BASED ON "AESTHETIC" VALUES ONLY. ALL AREAS WITHOUT SUSPENDED CEILINGS: MECHANICAL ROOMS, STORAGE AREAS, HOUSEKEPPING CLOSETS, ETC. SHALL BE PROVIDED WITH EXPOSED UPRIGHT OR PENDENT SPRINKLER HEADS, AS REQUIRED TO SUIT CONSTRUCTION CONDITIONS. LOCATION AND TYPE OF SPRINKLER HEADS IN AREAS WITHOUT SUSPENDED CEILINGS SHALL BE FULLY COORDINATED WITH ARCHITECTURAL ELEMENTS (ACOUSTICAL PANELS, ETC.), EXPOSED STRUCTURAL ELEMENTS (ACOUSTICAL PANELS, ETC.), AND ACE COUPNENT (DUCTWORK, UNIT HEATERS, ETC.). ALL OF THE ABOVE ELEMENTS SHALL BE INDICATED ON THE SHOP DRAWINGS. LOCATION OF ALL HVAC UNIT HEATERS SHALL BE COORDINATED WITH HVAC CONTRACTOR AND SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS WITH PROPER RATING OF ADJACENT SPRINKLER HEADS. COORDINATE LOCATION OF ALL HVAC DUCTS AND ELECTRICAL CONDUIT BANKS AND CABLE TRAYS IN AREAS WITH EXPOSED CEILINGS WITH HVAC AND ELECTRIC CONTRACTOR AND PROVIDE ADDITIONAL SPRINKLER HEADS. COORDINATE LOCATION OF ALL PRONDAL SPRINKLER HEADS AND PIPING FOR SAME UNDER DUCTS OR CLUS		DESIGN CR 1. ALL SPRINKLER HYDRAULICALLY CONTRACTOR) 2. SPRINKLER SY ALL AUTHORIT 3. OCCUPANCY CL SPACES USED AND FOOD SER 4. SPRINKLERS PM MINIMUM DENS HYDRAULICALLY SPRINKLER HEA 5. PLACES OF ASY KITCHEN AND IN HAZARD GROUP SHALL PROVIDE OVER MOST HYN PER SPRINKLEF 6. MINIMUM PRESS FOR THE MININ THAN 7 PSI. PROVIDE MININ

ION CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM HYDRAULIC SUBMIT THEM AS PART OF THE SHOP DRAWINGS. THE LL BE PREPARED IN ACCORDANCE WITH N.F.P.A. CHAPTER 13 SPECIFIED HEREIN. CALCULATIONS SHALL BE PREPARED S OF APPLICATION PER FLOOR, AND FOR ALL FLOORS AS NSTRATE TO THE SATISFACTION OF THE ARCHITECT/ E WHOLE SYSTEM MEETS THE OUTLINED DESIGN CRITERIA S DRAWING.

ANY WORK, THE FIRE PROTECTION CONTRACTOR SHALL CONSULT DETAILED DRAWINGS AND STRUCTURAL DRAWINGS FOR SPACES OWED FOR THE INSTALLATION OF ALL PIPING, EQUIPMENT, PIPING OR EQUIPMENT REQUIRE MORE SPACE THAN ALLOWED UPON SUSPENDED CEILINGS OR AVAILABLE HEADROOM AS PROTECTION CONTRACTOR SHALL CALL THE ARCHITECT'S/ TION TO SAME AND OBTAIN HIS APPROVAL BEFORE INSTALLING

DUPLING SIMILAR TO "VICTAULIC" (OR APPROVED EQUAL) FIG. ING STYLE FIG. No. 925 WILL NOT BE PERMITTED. PLINGS FOR PLAIN END PIPE SIMILAR TO "VICTAULIC" (OR QUAL) FIT TYPE FITTINGS AND "<u>ROUST-A-BOUT"</u> AND _INGS WILL NOT BE PERMITTED.

ION CONTRACTOR SHALL PROVIDE ALL NECESSARY STRUCTURAL AND SUPPORTS OF APPROVED DESIGN TO KEEP PIPING IN AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND ALL CASES, WHERE HANGERS, BRACKETS, ETC. ARE SUPPORTED NSTRUCTION, CARE SHALL BE TAKEN NOT TO WEAKEN CONCRETE ERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE ENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING DOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE E IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY I THE VERTICAL AND HORIZONTAL DIRECTION.

NOT BE SUPPORTED FROM METAL DECKING. HANGERS, IF REQUIRED, SHALL BE MADE UP OF ANGLES OR TED BACK-TO-BACK FOR SUPPORTING PARALLEL LINES OF EZE TYPE HANGERS SHALL BE SUPPORTED WITH SUSPENSION DOUBLE NUTS SECURELY ATTACHED TO CONSTRUCTION WITH I CLAMPS, STEEL FISH PLATES, CANTILEVER BRACKETS, LAG HER APPROVED MEANS. USE APPROVED TYPE BRACKETS FOR IPING ATTACHED ALONG WALLS. FIRE PROTECTION PIPING TRAPEZE HANGERS SHALL BE PROVIDED WITH HOLD DOWN

SSARY LONGITUDINAL AND LATERAL SWAY BRACING FOR FEED INS. INDICATE LOCATION OF THE BRACES ON THE SHOP JBMIT ALL DETAILS FOR SEISMIC HANGERS. VERTICAL PIPING SHALL BE DOUBLE BOLT RISER CLAMPS, D HAVING EQUAL BEARING ON THE BUILDING STRUCTURE. CUT ERS AND PROVIDE FLEXIBLE COUPLING ON ALL RISERS 4" AND QUIRED BY NFPA. PROVIDE FLEXIBLE COUPLINGS AT ALL OTHER

ONS AS REQUIRED BY NFPA-13. USE 4-WAY SWAY BRACE TO F EACH RISER AGAINST DRIFTING IN ANY DIRECTION. YPE CLAMPS WITHOUT A RETAINING STRAP TO ATTACH HANGERS G STRUCTURE IS PROHIBITED. USE OF "C"-TYPE CLAMPS WITH ETAINING STRAPS TO ATTACH BRACES TO THE BUILDING

T/ENGINEER MUST APPROVE METHOD OF SUPPORTING PIPES FROM JCTURE BEFORE WORK IS STARTED. THIS CONTRACTOR SHALL PONSIBILITY FOR MATERIALS AND WORKMANSHIP AS DESCRIBED ES, AND SHALL MAKE SURE THAT ALL HANGERS AND SUPPORTS AND PERMANENTLY CONNECTED TO THE BUILDING STRUCTURE.

ORS SHALL BE DESIGNED FOR MOUNTING ON EITHER VERTICAL PING, BUT SHALL NOT BE MOUNTED IN A FITTING OR ISTANCE, AS DESCRIBED IN MANUFACTURER'S INSTALLATION OF ANY FITTING THAT CHANGES THE DIRECTION OF WATER

ASSEMBLIES, INCLUDING TRIMMINGS, SHALL BE INSTALLED DIRECTED. APPROVED TYPE DEVICES SHALL BE INSTALLED CANNUNCIATION OF THE FLOW OF WATER. EACH WET PIPE APPURTENANCES SHALL BE SO ARRANGED AND EQUIPPED IN AN THAT THE TRANSMISSION OF ACCIDENTAL WATERFLOW ALARMS RELATED CONDITIONS) WILL POSITIVELY BE PREVENTED.

I FROM ANY DRAIN TO ANY COMPONENT OF THE SANITARY OR YSTEM SHALL BE PROHIBITED. INSTALLED IN FITTINGS BEFORE PIPING IS ERECTED SHALL BE

T PERMITTED TO BE MADE WITH AIR, EXCEPT WHEN INDICATED, OR FOR DRY-PIPE SYSTEMS.

TOR SHALL PROVIDE ALL NECESSARY TEST PLUGS OR TEE ING ERECTION OF PIPE SYSTEM FOR THE PURPOSE OF STREAMS TESTING. HICH IS TO BE ENCLOSED IN PARTITIONS OR SUSPENDED L BE TESTED AND MADE TIGHT WHEN DIRECTED BY THE SUPERVISOR AND IN ADEQUATE TIME TO PERMIT THE N OF PARTITIONS AND CEILINGS. WHEN NECESSARY, THIS HALL DRAIN THE PIPING AND/OR TAKE SUCH PRECAUTIONS TO PREVENT DAMAGE BY FREEZING.

GN CRITERIA FOR HYDRAULIC CALCULATIONS PRINKLER SYSTEMS THROUGHOUT THE BUILDING SHALL BE AULICALLY CALCULATED (BY THE FIRE PROTECTION SPRINKLER RACTOR) BASED ON COORDINATED SHOP DRAWINGS. KLER SYSTEM LAYOUT AND CALCULATIONS SHALL COMPLY WITH JTHORITIES HAVING JURISDICTION.

ANCY CLASSIFICATION: LIGHT HAZARD THROUGHOUT EXCEPT S USED AS STORAGE, MECHANICAL EQUIP. ROOMS, KITCHEN OOD SERVICE AREAS AND PLACES OF ASSEMBLY. KLERS PROTECTING LIGHT HAZARD OCCUPANCIES SHALL PROVIDE

NUM DENSITY OF DISCHARGE .10 GPM/SQ.FT. OVER MOST AULICALLY REMOTE 1,500 SQ. FT. MAXIMUM COVERAGE PER WKLER HEAD 225 SQ. FT. S OF ASSEMBLIES, STORAGES, MECHANICAL EQUIPMENT ROOMS, EN AND FOOD SERVICE AREA SHALL BE CLASSIFIED AS ORDINARY

GROUP 1 OCCUPANCY. SPRINKLERS PROTECTING THESE SPACES PROVIDE A MINIMUM DENSITY OF DISCHARGE 0.16 GPM/SQ. FT. MOST HYDRAULICALLY REMOTE 1,500 SQ. FT., MAXIMUM COVERAGE PRINKLER HEAD 130 SQ. FT. UM PRESSURE AT ANY SPRINKLER HEAD SHALL BE AS REQUIRED THE MINIMUM DISCHARGE OF THE HEAD, BUT IN NO CASE LESS 7 PSI. SPRINKLER HEADS LOCATED AT WATER CURTAIN SHALL DE MINIMUM 3 GPM PER LINEAR FOOT.

NOTE:	THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE OF INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF		
× × × ×	EXISTING PIPING TO BE REMOVED	A.B.D.	AUTOMATIC BALL DRIP
	EXISTING PIPING TO REMAIN	A.D.	ACCESS DOOR
SP	SPRINKLER PIPING (SP.)	CLG.	CEILING
—ŏ— —ŏ—	GATE VALVE (G.V.)	C.V.	CHECK VALVE
65	LOCKSHIELD VALVE (GLOBE VALVE)		
→	CHECK VALVE (C.V.)	DN.	DOWN
	PRESSURE REGULATING VALVE	EL.	ELEVATION
	STRAINER	F.H.C.	FIRE HOSE CABINET
_	SHOCK ABSORBER	F.H.	FIRE HYDRANT
X	ANCHOR	F.H.R.	FIRE HOSE RACK
	GUIDE	FL.	FLOOR
Ŷ	PRESSURE GAUGE	G.V.	GATE VALVE
	PIPING COVERED WITH ELECTRIC HEAT TRACING CABLE AND INSULATION	H.C.	HUNG CEILING
(UNION CONNECTION	H.R.	HOSE RACK
\square	DRY PIPE VALVE	N.I.C.	NOT IN CONTRACT
	ALARM CHECK VALVE	0.S.&Y.	OUTSIDE SCREW & YOKE
DF	DRY F.S.P.	P.0.	PLUGGED OUTLET
0	UPRIGHT HEAD	R.P.B.	REDUCED PRESSURE
\triangleleft	SIDEWALL HEAD	F.P.	BACKFLOW PREVENTER
•	HUNG CEILING, PENDANT HEAD	R.C.V.	RISER CONTROL
×	HUNG CEILING RECESSED HEAD		VALVE
	HUNG CEILING FLUSH HEAD	T.S.	TAMPER SWITCH
۲	HUNG CEILING CONCEALED HEAD	U.O.S.W.	UNDER ANOTHER SECTION OF
\odot	HUNG CEILING DRY PENDANT HEAD		THE WORK
		VAL. O. V.O.	VALVED OUTLET

	FIRE SUPPRESSION DRAWING LIST	
SHEET	TITLE	SCALE
FX-000	FIRE SUPPRESSION SYMBOLS, ABBREVIATIONS, NOTES AND DRAWING LIST	NTS
FX-101	FIRE SUPPRESSION 1ST FLOOR PLAN	1/8" = 1'-0"
FX-500	FIRE SUPPRESSION DETAILS	NTS
FX-600	FIRE SUPPRESSION SCHEDULES	NTS
FX-700	FIRE SUPPRESSION RISER DIAGRAM	NTS

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

This plan is approved only for work indicated on the not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

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

REGENERON

REAL ESTATE &

FACILITIES MANAGEMENT

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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MEP / IT / Security Engineer

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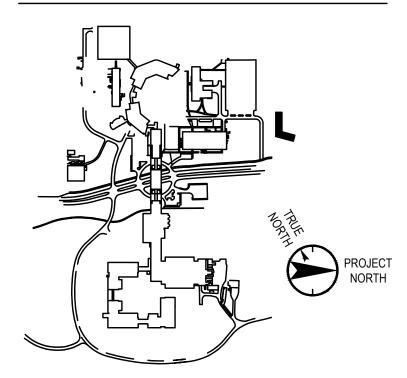
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Landan 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 (212) 479-5400 Phone (212) 479-5444 Fax

Key Plan



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Professional Seal and Signature

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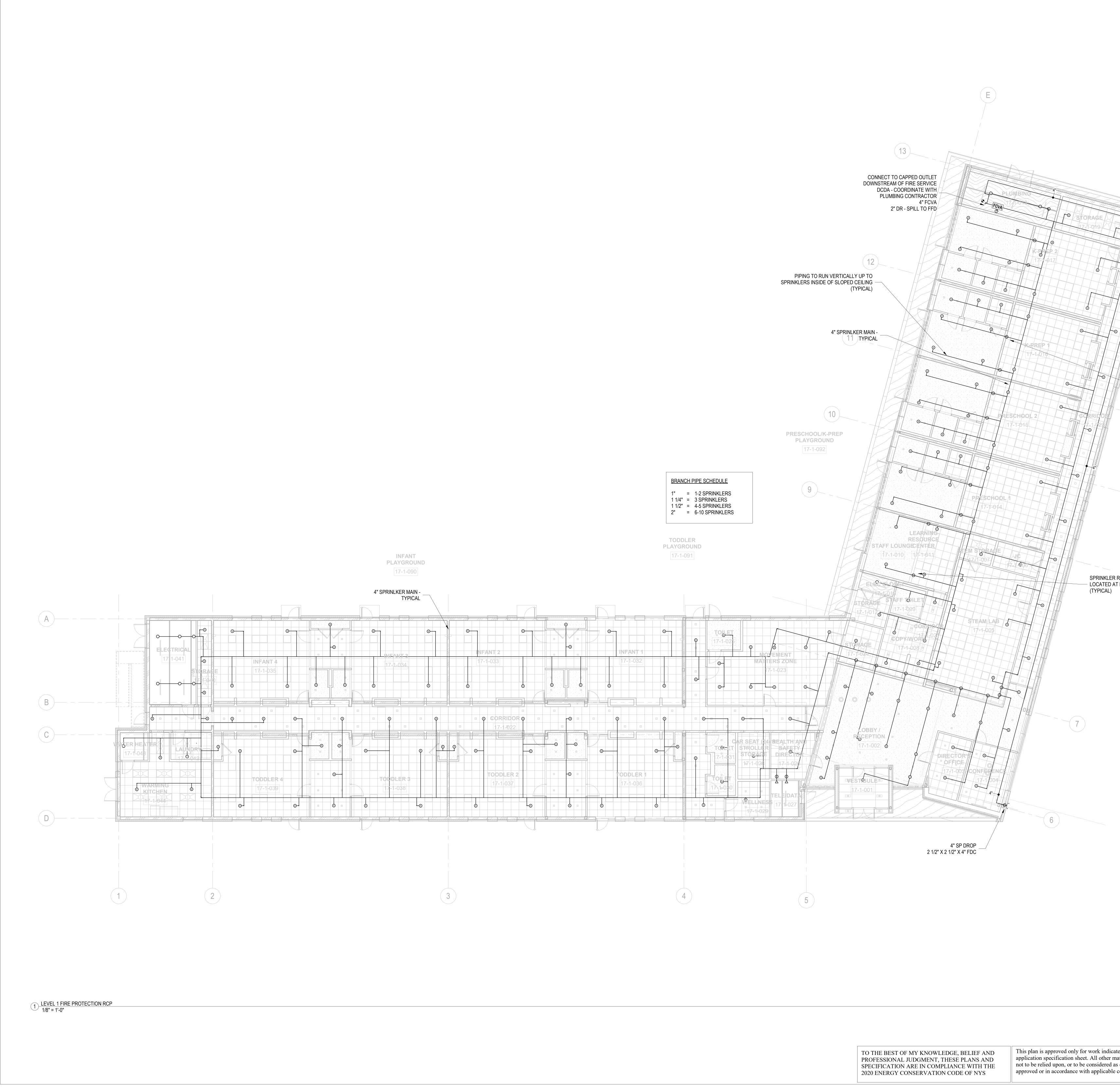
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Vendor Name: COSENTINI Vendor Project No.:151-210104 Discipline: FIRE SUPPRESSION Drawn By: DH FIRE SUPPRESSION SYMBOLS, ABBREVIATIONS, AND DRAWING LIST

Alterations or additions to this engineering document application specification sheet. All other matters shown are by an unlicensed person is a violation of Chapter 16 Title VIII, Article 145 § 7209.2 of the New York State Education Law.

Floor: N/A Scale: NTS





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

FX-101

FLOOR PLAN

Discipline: Drawn By: Draw

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SPRINKLER RISE TO SPRINKLER HEADS — LOCATED AT HIGHER SLOPED CEILING (TYPICAL)

SPRINKLER RISE TO SPRINKLER HEADS — LOCATED AT HIGHER SLOPED CEILING (TYPICAL)

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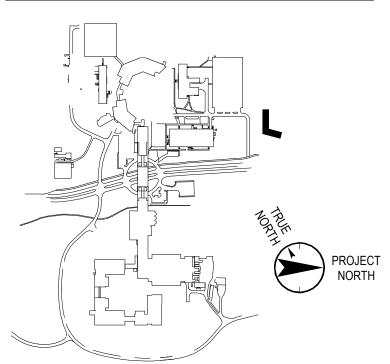
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Key Plan



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Plot Date: 11/23/21

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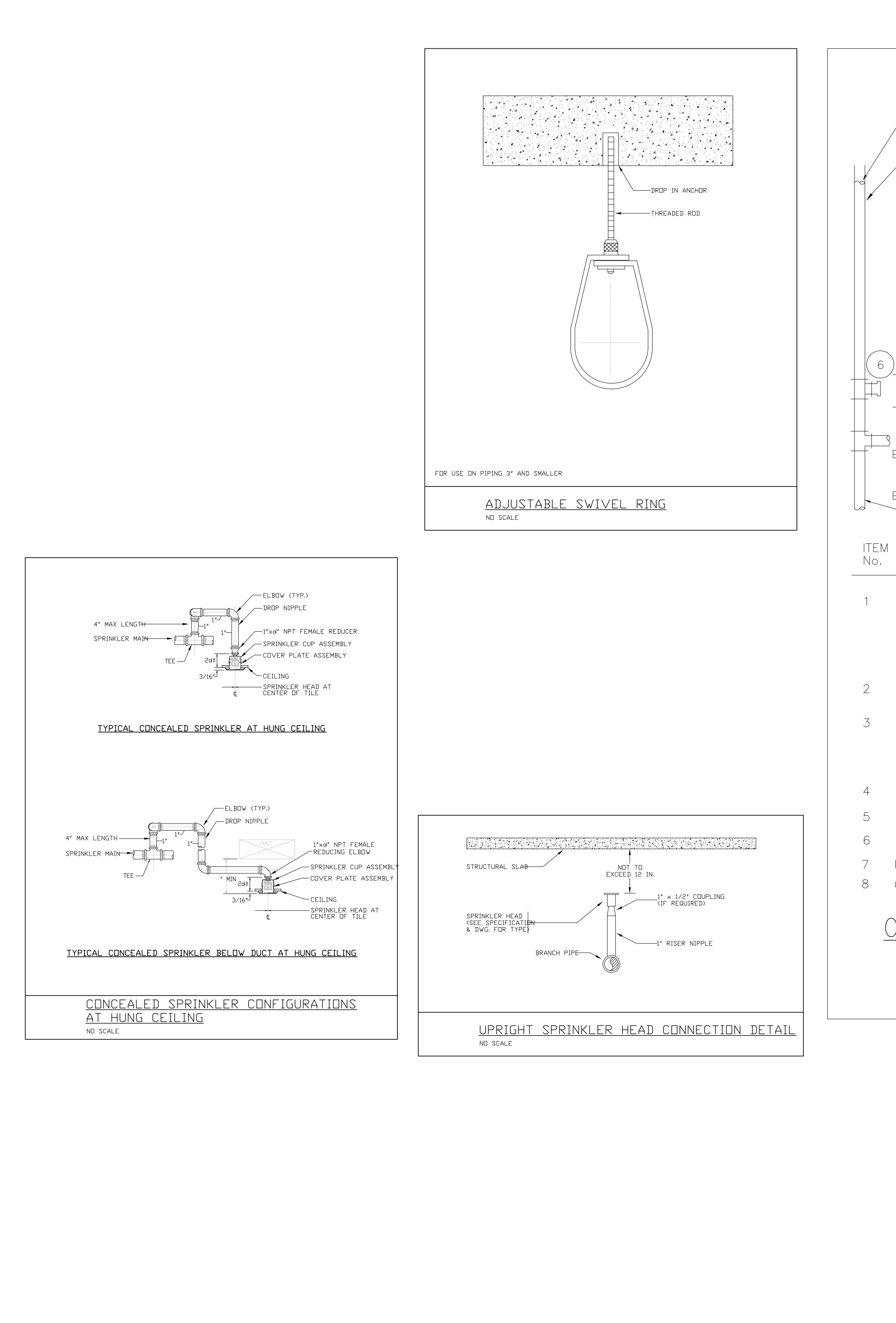
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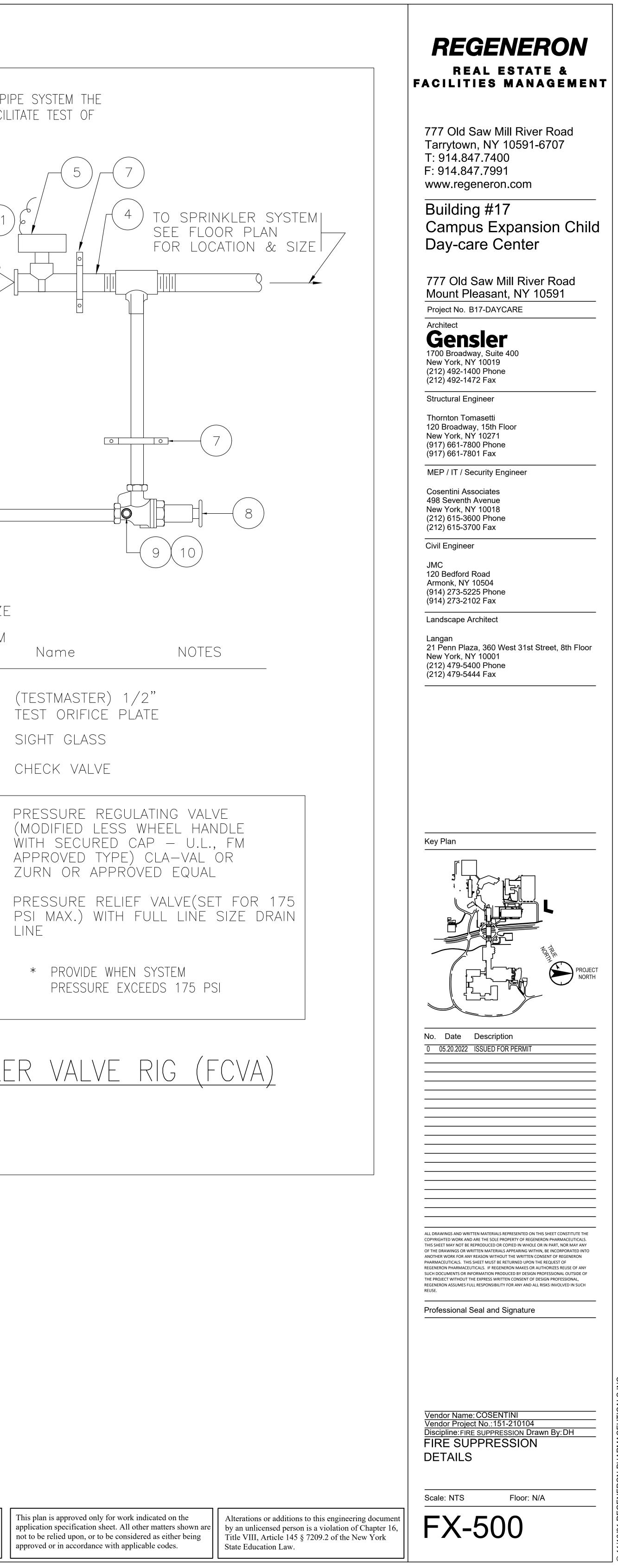
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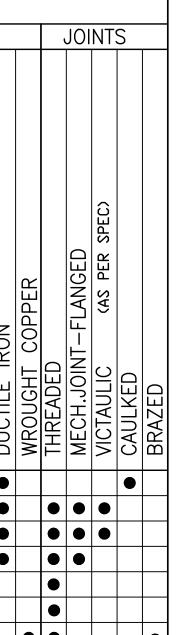
WHERE PRV'S ARE REQUIRED ON THE DRAIN RISER MUST BE OF ADEQUATE S PRESSURE RESTRICTING DEVICES			
COMBINED RISER (SPRINKLER RISER) * 13	7 11		4 TC SE
			9
SEE FLOOR PLAN FOR LOCATION	I AND SIZE	 	
Name NOTES	ITEM No.		
CONTROL 175, 250, & 350 VALVE WITH P.S.I. W.W.P. TAMPER SWITCH RATED VALVES, VALVE LOCATION AS PER	10	(TESTMASTER) TEST ORIFICE SIGHT GLASS	•
FIRE PROTECTION RIS DIAGRAM.	ER 11	CHECK VALVE	
PRESSURE GAUGE WITH SHUTOFF COCK FIRE HOSE VALVE * (PROVIDE PRESSURE RESTRICTING DEVICE WHERE STATIC PRESSURE EXCEEDS 175 PSI.)	* 12	PRESSURE RE (MODIFIED LES WITH SECUREI APPROVED TY ZURN OR APF	SS WHE D CAP PE) CLA
FEED MAIN Waterflow indicator	* 13	PRESSURE RE PSI MAX.) WIT LINE	
CAPPED OUTLET PIPE CLAMP GLOBE VALVE	<u>NOTES</u> :	* PROVIDE W PRESSURE	
OMBINED RISER WITH SP NO	RINKLE scale	ER VALVE	<u>= RI(</u>

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

approved or in accordance with applicable codes.



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	VICTAULIC FTG. No.	SIZE		ΤΥΡΕ		GROOVED HOLE CUT	PLAIN END	VIC RING	150#WWP 175#WWP	200#WWP 250#WWP	300#WWP 350#WWP	NOTE	NOTE B &	700#WWP		kefek iu genekal nuie #1	REQUIRED			IN-COMING SERVICE	RISERS HORIZONTAL RUN	NOT PERMITTED SEISMIC REQUIREMENTS
	07 ZERO-FLEX 07 ZERO-FLEX 07 ZERO-FLEX 07 ZERO-FLEX 07 ZERO-FLEX 07 ZERO-FLEX 005 FIRELOCK	1"-4" 5"-6" 8" 10" 12" 14"-20" 2"-6"	RIGID RIGID RIGID RIGID RIGID RIGID			• · • · • · • · • · • · • · • · • · • ·					•	•										
C	009 FIRELOCK HP-70	1 1/4"-4" 2"-8"	RIGID RIGID			•					•				•	•	•		• •		•	
O U P L I N G	HP-70 77 77 77 75 75 741	$ \begin{array}{r} 10"-12"\\ 3/4"-6"\\ 8"-12"\\ 14"-22"\\ 1 1/2"-4"\\ 4 1/2"-8"\\ 2'-12"\\ \end{array} $	RIGID FLEXIBLE FLEXIBLE FLEXIBLE FLEXIBLE FLEXIBLE VIC-FLANG	E ADAPTER		• · • · • · • · • · • · • · • · • · • · • · • ·					•											
S	743 791 791	2"-12" 2"-4" 6"	VIC-FLANG BOLTLESS BOLTLESS	E ADAPTER		•					•						•					•
	791 750	8" –	BOLTLESS REDUCING			•					•											•
	72	1" – 2"	OUTLET UL SIZE & PR	ESSURE	VED	•																•
.ST & RAIN	720	1 1/4"-2"	GROOVED E	INDS								•							•			
F I	- 10, 11, 12, 13 50, 52		ELBOWS REDUCERS														•					
T I N G S	20 25, 29 85 920N 920N 922 27		TEES REDUCING CROSS MECH TEE UL/FM APF MECH TEE - STANDPIPE	SIZE & PRI					•		•	•				•						•
	NOTES:											I I		_								
, , , 10TES	SYSTEM	/fm approved ved with lt. ved with lt. <u>RE PROTE</u>	WITH LT. W Wall PIPE F Wall PIPE F	ALL PIPE R Oll groov Oll groov	OLL GR (E 450 (E 450) AL S	DOVE 4 PSI WW PSI WW	00 P: P P	si wv			RE	EFER PPROV	το Μ	ANUFA	CTUR	E RATI ER FOI SSURE	r fac	CTORY				
FOR RISE ALL	D. REQUIRED PRESSURE TR DIAGRAM. MATERIALS SELECTED T BE APPROVED BY T	ON THIS SCHE	DULE	TUBING																		
CON TO E	BE USED DOWNSTREAN TROL VALVE (2½″ AN BE USED ON RISERS, NCH PIPING UP TO 2"	ND LARGER ON MAINS, AND S	LY).	L' COPPER R PIPE	10000	80		IRON			COPPER	-FLANGED	(AS PER SPEC)									
PRE- USE OTHE	PER TUBING TO BE U –ACTION SPRINKLER S OF ANY PIPING OR T ER THAN SCHEDULE 1 IOT PERMITTED.	WING WITH I.	D. OR O.D.	REQUIRED TYPE 'K' OR ' DUCTILE IRON CAST IRON WTI	STEEL SCHED STEEL SCHED STEFL SCHED	STEEL SCHED BLACK	CEMENT LINED	MALLEABLE IN CLASS D	LINED BLACK	CALVANIZED VICTAULIC	WROUGHT COL	THREADED MECH.JOINT-F		BRAZED								
RE S) BUILDING FIRE SER TANDPIPE				•	•		•	•		•	•	•	<u> </u>								
PRINK PRINK PRINK		(SEE NOTE (SEE NOTE			• • • •		•	•	•		•	• • • •										
	PRINKLER CTION SPRINKLER	(SEE NOTE	5)				•			•		•		•								



			SCHEDULE (OF SPRINKLE	R HEA	<u>DS</u>					
SYMBOL	MANUFACTURER & MODEL No.	TYPE	LOCATION	FINISH & REMARKS	TEMP. RATING		SP. HD. COVERAGE	ORIFICE	MIN. FLOW	MIN. PRESS.	APPROVALS
۲	″∨IKING″ M⊡DEL ∨K3021 QUICK RESP⊡NSE 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
0	″∨IKING″ MICR⊡SFAST M⊡DEL ∨K300 QUICK RESP⊡NSE 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
Q	″∨IKING″ MICROSFAST MODEL 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
INS REC 2. PRE SPR SPR IN	NKLER HEADS SHALL BE TALLED AS PER MANUFAC OMMENDATIONS. VIDE METAL WIRE GUAR NKLERS ARE SUBJECT T NKLER HEADS LOCATED MECHANICAL EQUIPMENT F ATED LOWER THAN 7'-O"	CTURER'S DS WHERE ID DAMAGE, SUCH AS UNDER HVAC DUCTS ROOMS WHEN	 3. ALL SPRINKLER HEADS THROOF THE ORDINARY TEMPERA FOLLOWS: a. SPRINKLER HEADS LOCATED PIPING OR LOW-PRESSURE THE TEMPERATURE RATING b. ALL HEAT GENERATING EQUI TEMPERATURE RATING OF THE CLEARLY IDENTIFIED ON THE SUBMISSION FOR APPROVAL. 	TURE RATING EXCEPT CLOSE TO HEATERS, BLOW-OFF VALVE SHA AS REQUIRED BY NFP, PMENT WHICH CAN AF HE SPRINKLER HEADS SHOP DRAWINGS PF	AS STEAM ALL BE OF A 13. FECT THE SHALL BE	P H 5. A A 6. (RCHITECT. COORDINATE	REQU CALCULA LER HEA E ALL SF	IREMENTS Ation Ad finishe Prinkler C	TO BE B DESIGN I ES TO BE COLOR FIN	ASED ON

			FIRE	-	Ρ	R	TC	Έ	СТ	ΓIC)N	١	\checkmark	<u>`</u> [)	VЕ	-	S(CH	1E		JL	.E										
		VALV	E SPECIFIC	CAT	ΓΙΟ	N																										
TYPE	MANUFACTURER	FIG. NO.	SIZE	THREADED	FLANGED	GROOVED	GATE VALVES	•	BRONZE B-61	B	ш Ш	CAST IRON A-126	CAST STEEL A-216	LIENT WEDG	MECHANICAL JOINT	DUCTILE IRON A-536	UL/FM	MEA		L>				250# WWP	300# WWP	350# WWP	400# WWP			L	#	1480# WWP
GATE VALVES	N N N N N	T-104-0 F-607-RW M-609-RW F-609-RW F-667-0	1/2"-2" 2 1/2"-12" 4"-12" 4"-12" 2"-12"	•	•		•	•		•		•		•	•	•	• • • • • • • • • • • • • • • • • • • •	• • • • • • •				•		•				•				
	N N N C	F-697-0 G-607RW F-6070TS 76	2 1/2"-10" 3"-8" 2 1/2"-12" 2"-12"		• • •	•	• • •					•	•	•		•	• • •	•				•		•	•					•	•	•
CHECK VALVES		KT-403-W F-908-W F-968-B G-917W	1/2"-3" 2 1/2"-12" 2 1/2"-6" 2 1/2"-6" 2"-12"	•	•	•				•		•						•				•	•	•				•				
BUTTERFLY VALVES	C N M M V	175 LD3510-8 GD47658N BBHSLS02 BVHSCS02 705W	2 -12" 2"-12" 2 1/2"-8" 1"-2 1/2" 2"-2 1/2" 2 1/2"-6"	•	•	•					•		•			•	• • •	• • • • • • •						•	•	•						
GLOBE & ANGLE VALVES	• Z Z Z Z	T-331-HC KT-65-UL KT-211W-UL KT-67-UL	2 1/2" 1/4"-1" 1/4"-2" 1/2"-1"	• • • •				•		•	•						•		•			•			•							
BALL VALVES WALL AND INDICATOR POSTS	N	KT–585–70–UL NIP–1AJ NIP–2AJ	1/4"-3"	•							•					•	•				•											
MANUFACTU	L RE	KEY			<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>										[BR	L EV	I IAT	1 101	۱ NS	<u> </u>			

<u>Manufacture key</u> N = NIBCO BALANCE OF VALVES LISTED

M = MILWAUKEE BUTTERFLY VALVES through 2 1/2" ONLY (BBHSCSO2 SERIES) FOR FIRE SPRINKLER SYSTEM V= VICTAULIC FIRELOCK BUTTERFLY VALVE (FOR FIRE SPRINKLER SYSTEM) C = CRANE CAST STEEL GATE & CHECK VALVES (FIGS 175,76)

ADDITEVIATIONS.

N.R.S.- NON-RISING STEM AWWA- AMERICAN WATER WORKS ASSOCIATIONS BS&A- N.Y.C. BOARD OF STANDARDS AND APPEALS MEA- N.Y.C. MATERIAL AND ACCEPTANCE DIVISION

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

approved or in accordance with applicable codes.



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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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Structural Engineer

Thornton Tomasetti 120 Broadway, 15th Floor New York, NY 10271 (917) 661-7800 Phone (917) 661-7801 Fax

MEP / IT / Security Engineer

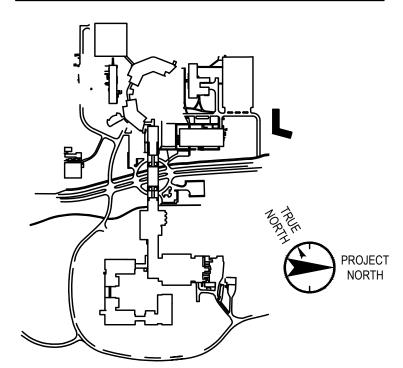
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Landscape Architect

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Key Plan _____



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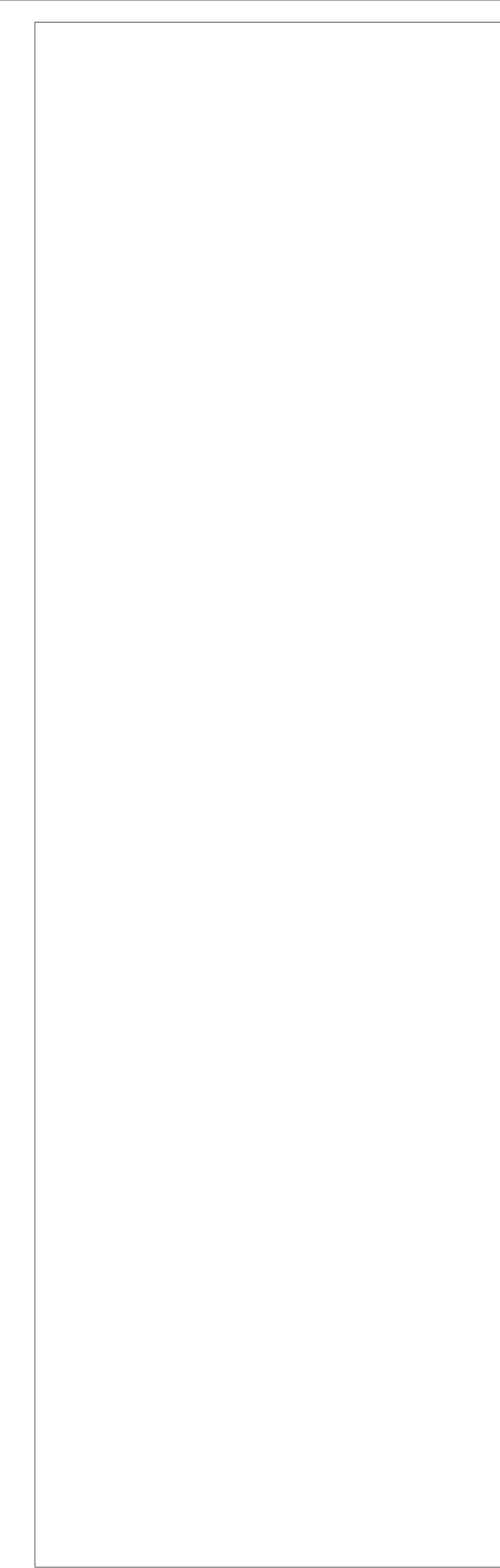
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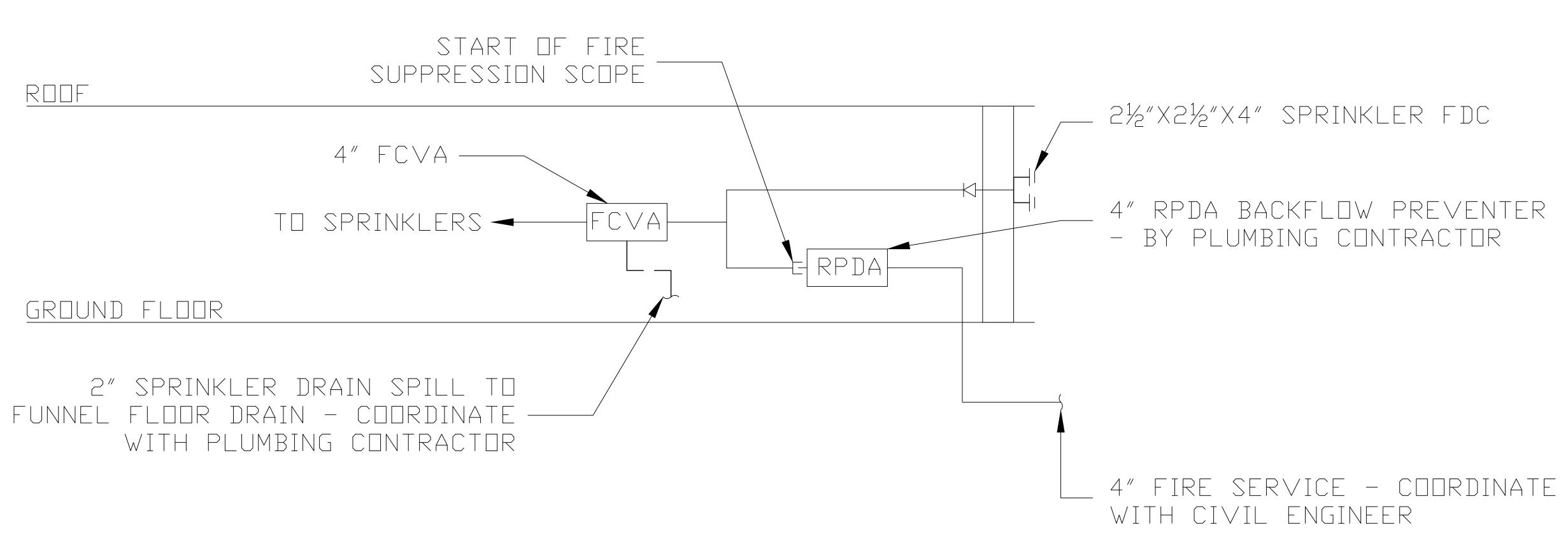
Professional Seal and Signature

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

This plan is approved only for work indicated on the
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by an unlicensed person is a violation of Chapter 16,
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REGENERON REAL ESTATE & FACILITIES MANAGEMENT 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 Architect **Gensier** 1700 Broadway, Suite 400 New York, NY 10019 (212) 492-1400 Phone (212) 492-1472 Fax Structural Engineer Thornton Tomasetti 120 Broadway, 15th Floor New York, NY 10271 (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 Armonk, NY 10504 (914) 273-5225 Phone (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 PROJECT NORTH No. Date Description 0 05.20.2022 ISSUED FOR PERM ALL DRAWINGS AND WRITTEN MATERIALS REPRESENTED ON THIS SHEET CONSTITUTE THE COPYRIGHTED WORK AND ARE THE SOLE PROPERTY OF REGENERON PHARMACEUTICALS. THIS SHEET MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ANY OF THE DRAWINGS OR WRITTEN MATERIALS APPEARING WITHIN, BE INCORPORATED INTO ANOTHER WORK FOR ANY REASON WITHOUT THE WRITTEN CONSENT OF REGENERON PHARMACEUTICALS. THIS SHEET MUST BE RETURNED UPON THE REQUEST OF REGENERON PHARMACEUTICALS. IF REGENERON MAKES OR AUTHORIZES REUSE OF ANY SUCH DOCUMENTS OR INFORMATION PRODUCED BY DESIGN PROFESSIONAL OUTSIDE OF THE PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF DESIGN PROFESSIONAL, REGENERON ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL RISKS INVOLVED IN SUCH REUSE. Professional Seal and Signature

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

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