FPET DESIGN CHECK LIST

NFPA CHECK-LIST

		Comp.	N/A
1	Name of owner and occupant		
2	Location, including street address		
3	Point of compass		
4	Full height cross section, if required for clarity; including ceiling construction and method of protection for non-metallic piping		
5	Location of partitions clearly shown		
6	Locations of fire walls clearly shown		
7	Occupancy class of each area or room with room names		
8	Location and size of concealed spaces, closets, attics, and bathrooms.		
9	Any small enclosures in which no sprinklers are to be installed identified		
10	Size of city main in street and whether dead-end or circulating; and, if dead-end, direction and distance to nearest circulating main. City main test results and system elevation relative to test hydrant		
11	Other sources of water supply, with pressure or elevation.		
12	Make, type and nominal K-factor of sprinklers including sprinkler identification number		
13	Temperature rating and location of high temp. sprinklers.		
14	Total area protected by each system on each floor.		
15	Number of sprinklers on each riser per floor.		
16	Total number of sprinklers on each dry pipe system, preactions system combined dry pipe-preaction system, or deluge system.		
17	Approximate capacity in gal of each dry pipe system.		
18	Pipe type and schedule of wall thickness.		
19	Nominal pipe size and cutting lengths of pipe (or cen-to-cen) *Note: Where typical lines prevail, sizing on one line needs to be provided*		
20	Location and size of riser nipples.		
21	Type of fittings and joints and location of all welds and bends. The contractor shall specify on drawing any sections to be shop welded and the type of fittings or formations to be used.		
22	Type and location of hangers, sleeves, braces, and methods of securing sprinklers when applicable. Call out and show all trapese members.		
23	All control valves, check valves, drain pipes, and test connections.		
24	Make, type, model, and size of alarm or dry pipe valve.		
25	Make, type, model and size of preaction or deluge valve.		
26	Kind and location of alarm bells.		

FPET DESIGN CHECK LIST

NFPA CHECK-LIST CONT'D

		Comp.	N/A
27	Size and locatio of standpipe risers, hose outlets, hand hose, and related equip.		
28	Underground pipe size, length, location, weight, material, point of connection to city main; the type of valves, meters, and valve pits; and the depth that the top of the pipe is laid below grade		
29	Piping provisions for flushing.		
30	Where the equipment is to be installed as an addition to an existing system, enough of the existing system indicated on the plans to make all conditions clear.		
31	For hydraulically designed systems, the information on the hydraulic data nameplate.		
32	A graphic representation of the scale used on all plans.		
33	Name and address of Contractor.		
34	Hydraulic reference points shown on the plan shall correspond with comparable reference points on the hydraulic calculation sheets.		
35	The minimum rate of water application (density), the design area of water application, in-rack sprinkler demand, and the water required for hose streams both inside and outside.		
36	The total quantity of water and the pressure required noted at a common reference point for each system.		
37	Relative elevations of sprinklers, junction points, and supply or reference points.		
38	If room design method is used, all unprotected wall openings throughout the floor protected.		
39	Calculation of loads for sizing, and details of sway bracing.		
40	The setting for pressure reducing valves.		
41	Information about backflow preventers (manufacturer, size and type)		
42	Information about antifreeze solution used (type and amount).		
43	Size and location of hydrants, showing size and number of outlets and if outlets are to be equipped with independent gate valves. Whether hose houses and equipment are to be provided, and by whom, shall be indicated. Static and residual hydrants that were used in flow test shall be shown.		
44	Size, location, and piping arrangement of fire department connections.		

FPET DESIGN CHECK LIST

Contractor CHECK-LIST

		Comp.	N/A
1	Place Contractor Job Number on each sheet		
2	How many heads were estimated?		
3	How many heads designed?		
4	Finished floor elevation (Datum and Architectural). One each sheet Elevation of pipe: a) AFF b) Below Structure		
5	Riser detail - drawn to scale (Preferably 1"=1'-0")		
6	Standpipe and drain details. Contents of valve cabinets to be labeled on the standpipe detail.		
7	General notes, and plan notes.		
8	Fire caulking note and detail if applicable.		
9	Drawing adequately dimensioned.		
10	Denote on plan domestic materials, galvanized, or painted pipe.		
11	Denote masonry wall for core drilling or sleeving.		
12	Heads on return bends?		
13	Hydraulic data sign to be made for each riser and/or remote area.		
14	Note any work that is not in contract (N.I.C.)		
15	Inspector's test and fire department connections.		
16	Check pipe lengths for clearance in small rooms, bar joists, elevators, etc.		
17	Drops cut to 6" below ceiling unless called in by field.		
18	1/4" relief valve provided on grid systems or where there is potential pressure build-up.		
19	Identify locations of elevators, equipment rooms, dumb waiters, pipe chases and stairs. Design piping with minimum penetrations and fittings into these areas. No piping to run through elevator machine rooms or electrical rooms.		
20	Provide 1" drain valve and plug, at an accessible location, at lowest trapped main of each system.		
21	Deflector distance below ceiling shall be noted on each sheet as applicable		
22	If installing an antifreeze loop with R.P.B.P. then provide expansion chamber and relief valve.		
23	Show structural elements. Place description of joist or beam at left side of bearing i.e.. 24K or W30		
24	Clearly note on plan how heads should be finished in ceiling tiles i.e.. C.O.T.		
25	When sprinklers are required to be a specific spot of ceiling tiles, a detail of the ceiling tile and head locations shall be drawn.		
26	Detailed information about fire pump. Layout to comply with NFPA 20.		

FPET DESIGN CHECK LIST

Contractor CHECK-LIST

		Comp.	N/A
27	Verify and indicate starting points of ceiling grid on plan. Make note of source of information. Confirm in writing and CC to architect, G.C. and ceiling contractor.		
28	Ceiling construction and height.		
29	First sheet to have a total of sprinklers used on job with each type of sprinkler totaled.		
30	Building construction types noted on plan		
31	Are there any special occupancy requirement for system?		
32	If necessary, descriptive information about storage shown on plans. Include narrative of how final densities and areas were arrived at, with applicable code references.		
33	Flow test form included. If flow test information was provided by others, include their report in submittal. All test must contain 'conducted by' contact information.		

UNDERGROUND DESIGN CHECK-LIST

		Comp.	N/A
1	North arrow, vicinity map and plan scale		
2	City connection detail. (Plan view)**		
3	City connection section. (If required)**		
4	Note on plan where Contractor's work to start and who installs the fire service connection.		
5	Inspection agency phone number.**		
6	Material and class of pipe.		
7	Thrust blocks per NFPA #24, is to be noted on the drawing. Do not draw in thrust blocks unless directed.**		
8	Indicate actual center to center dimensions of pipe where known, otherwise indicate +/- dimensions.		
9	Type of fittings.**		
10	Bury of pipe.**		
11	If F.D.C. is buried, note: wrapped piping, see FDC for underground.**		
12	Hydraulic note points if any.		
13	Work not in contract (N.I.C.).		
14	Indicate circulating or dead end city main.		
15	Other sources of water supply. (Pump or tank).		
16	Show adjacent building (exposure)		

**** denotes items to be completed if Contractor installs underground.**