DRAFT

June xx, 2011

Mr. Thomas Fariello
Acting First Deputy Commissioner
NYC Department of Buildings
280 Broadway, 7th Floor
New York, NY 10007

Re: World Trade Center- Standpipe System during Construction of Office Towers

Dear Commissioner Fariello:

Thank you for meeting with the Port Authority representatives and the NYC Fire Department on June 10, 2011, for the interagency discussion on the specific code requirements for standpipe systems during construction.

The following is a summary of the understanding of the requirements of the 2008 Building Code sections discussed at the meeting.

1704.22.1: When freezing conditions exist, an interim test of a fire standpipe system with air or nitrogen at 40 psig may be conducted during which the standpipe monitoring alarm system is removed from service. For the duration of the test, the system is not "in readiness". During this period of time, including set-up, 24-hour test and system restoration, construction activities shall cease. Any deviation from the specifics of the code would constitute a variance. Should there be a need to continue with construction activities, the Port Authority will ~~advise~~ FDNY and ~~seek concurrence~~ from DOB.

1704.22.1.1: Hydrostatic testing of a system is permitted to be conducted in segments. A 100' portion of a standpipe riser from one riser isolation valve up may be tested without subjecting portions of the system that have already been satisfactorily tested to the hydrostatic test conditions, i.e., filling the entire riser(s) with water and pressurizing to full test pressure.

3303.8.1-4.2: The intent of this section is that upon alarm actuation, all work at the site is to be halted and the Fire Department has to be notified. The resumption of work shall not occur until and unless authorized by the Fire Department. ~~The WTC Impairment Notification Procedure has been developed jointly with the Fire Department has been proven effective.~~

3303.8.1-4.9: Proper drainage is required by code. For areas that cannot be drained for whatever reason, heat trace is acceptable. It is not permissible to use antifreeze water solutions.

3303.8.1-5: The intent of this code section is to limit a planned removal of the standpipe system from service to a two-hour period. The necessity for longer periods of time to accomplish work is understood and additional two-hour segment impairment ~~notices~~ may be ~~provided to the~~ Fire Department.

The attendee list at the ~~meeting is attached. As requested at the meeting, also attached is the~~ Riser Diagram of the construction standpipe for Tower One, as an example of the typical

construction standpipe system at WTC. The construction advances approximately one floor per day with the standpipe being jumped or extended every few days. The standpipe is hydrostatically tested in 100' segments from the highest riser control (isolation) valve up. The valves are located every eighth floor. Each time the riser valve is closed for pipe installation, an Impairment Notice is prepared and sent by the Port Authority to Battalion 1 and Engine 10. The risers are done one at a time to limit the impairment.

If you agree with the Port Authority's understanding of the code requirements based on our discussion at the meeting, I would appreciate your concurrence by signing at the bottom of this letter and returning one original to me.

Very truly yours,

Saroj Bhol, PE

Manager, Construction Design Standards

Concurred:

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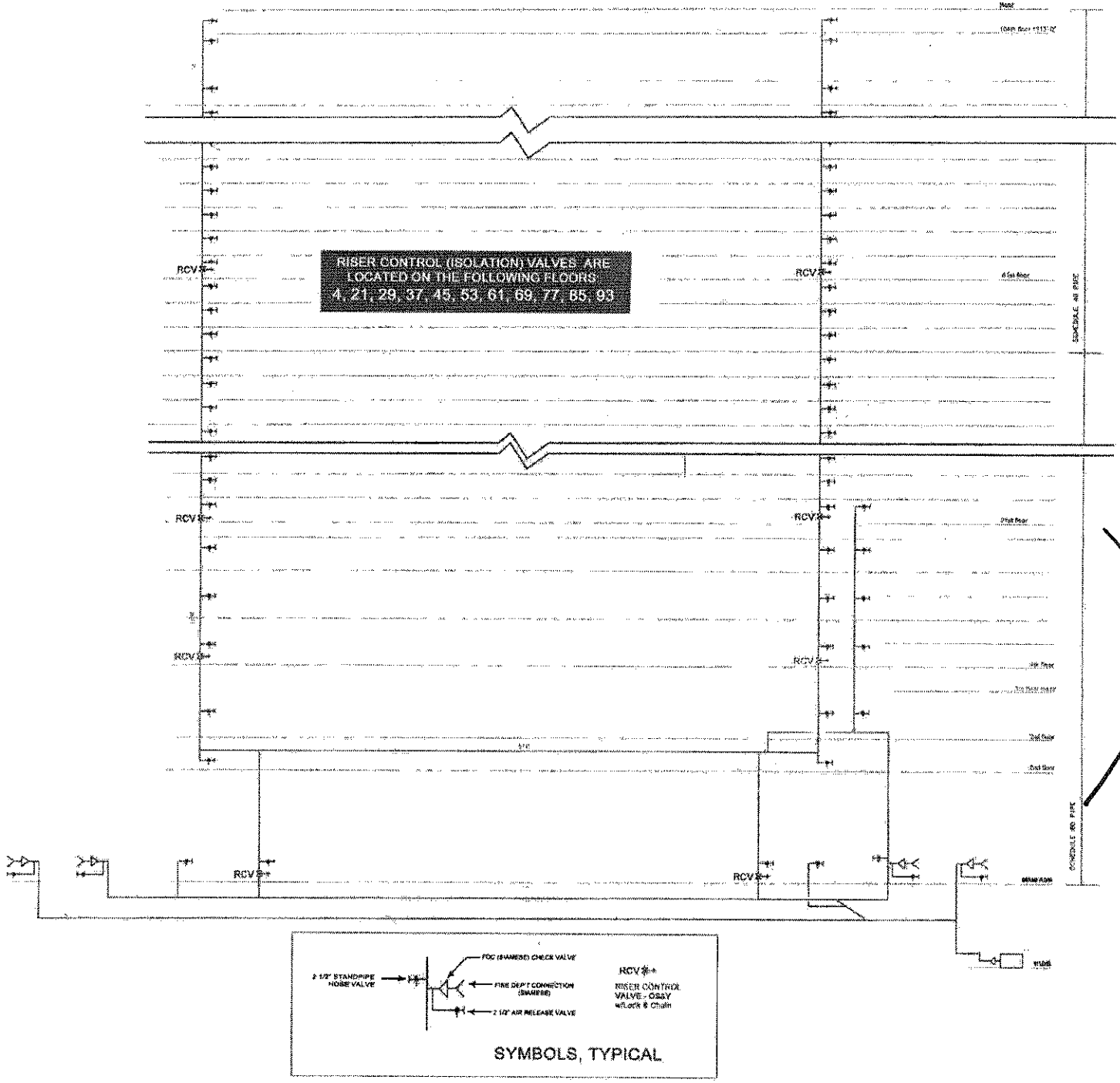
Thomas Fariello
Acting First Deputy Commissioner

ISSUE W/ RISER
- NO PE -
NEED TO REVIEW APPROVED DESIGN
RISER

STAIR
ANY OFFSETS


RISER CONTROL (ISOLATION) VALVES ARE LOCATED ON THE FOLLOWING FLOORS:
4, 21, 29, 37, 45, 53, 61, 69, 77, 85, 93
RCV
SCHEDULE 40 PIPE
2 1/2" STANDPIPE HOSE VALVE
FDC (SIAMESE) CHECK VALVE
FIRE DEPT CONNECTION (SIAMESE)
2 1/2" AIR RELEASE VALVE
RISER CONTROL VALVE - OS&Y w/LOCK & CHAIN
SYMBOLS, TYPICAL