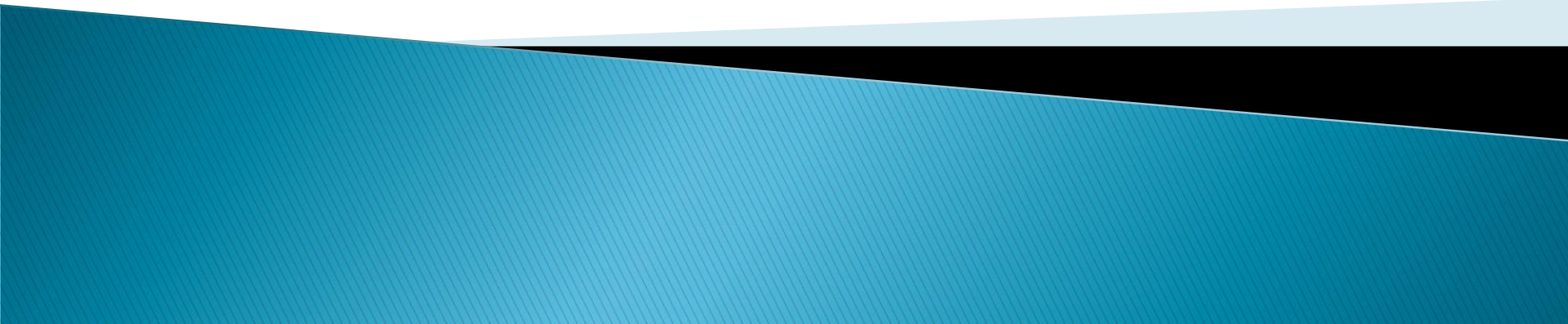
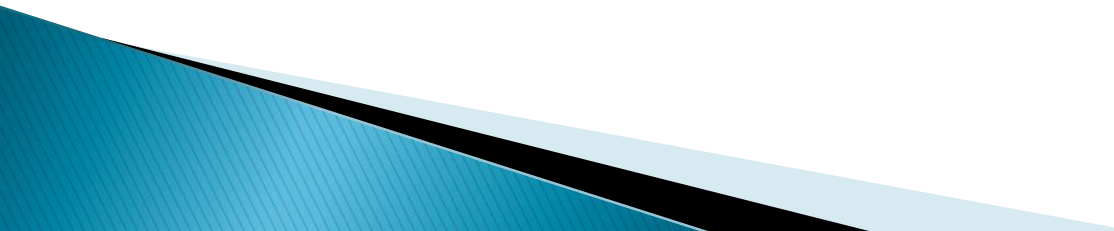


Certificate of Occupancy Expectations

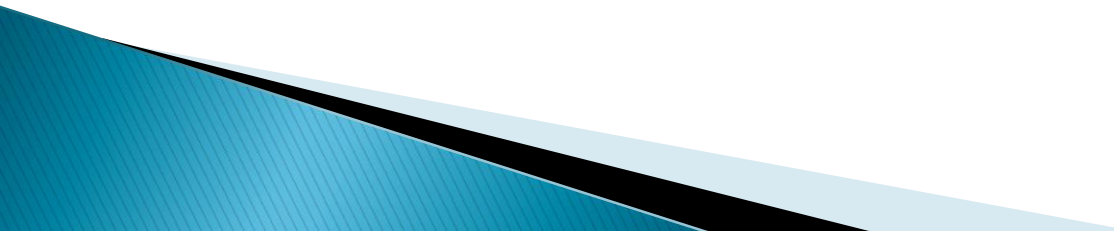
Proper Planning Makes For A Smooth Ending



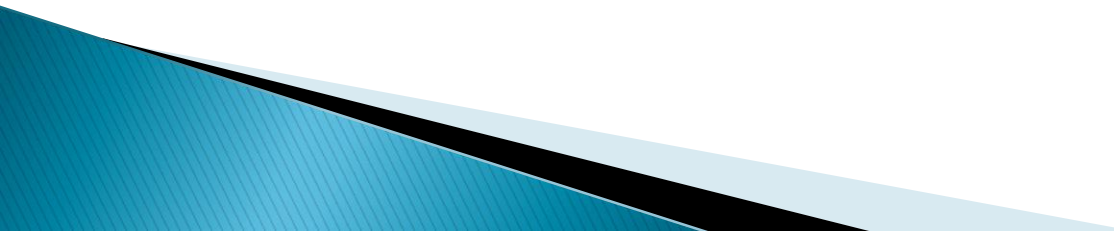
Welcome

- ▶ Why are we here
 - ▶ What is the owner's role
 - ▶ What is the contractor's role
 - ▶ What is the sub-contractor's role
 - ▶ What is MFD's role
- 


What do contractors want?

- ▶ Feed back – What do I have to do?
 - ▶ Complete project on time on a tight schedule
 - ▶ Get the Certificate of Occupancy to meet my contractual obligation and/or keep my client happy.
 - ▶ Timely responses
- 

What does MFD want?

- ▶ Early involvement
 - ▶ Early notices
 - ▶ Good documentation
 - ▶ Pretests complete
 - ▶ Contractors ready and present for inspections
 - ▶ A finished product
- 

What must be approved by MFD

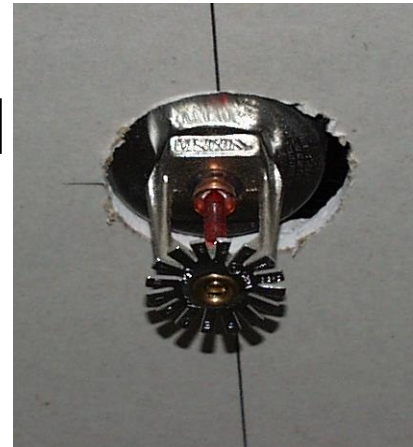
- ▶ Fire suppression systems
 - ▶ Fire alarm systems
 - ▶ Access Control/Electronic Locking
 - ▶ Smoke Control/Stair Pressurization
 - ▶ Radio Repeater Systems
 - ▶ Private hydrants/ Completed fire lanes
 - ▶ Elevators
 - ▶ Exiting complete and clear to the public way
 - ▶ Housekeeping
 - ▶ Signage
- 

Do you have all your permits?

- ▶ Access Control/Delayed Egress
- ▶ Smoke Control

Fire Suppression

- Rough in inspection & hydrostatic tests–prior to covering any pipe
- Forward Flow/ Back Flow–once the riser is complete, and you have a place to flow the water pretest it.
- Fire alarm connections and labeling
- Fire pump tests on emergency & normal power
- Functional and Room integrity tests
- Final inspection–walk through at end

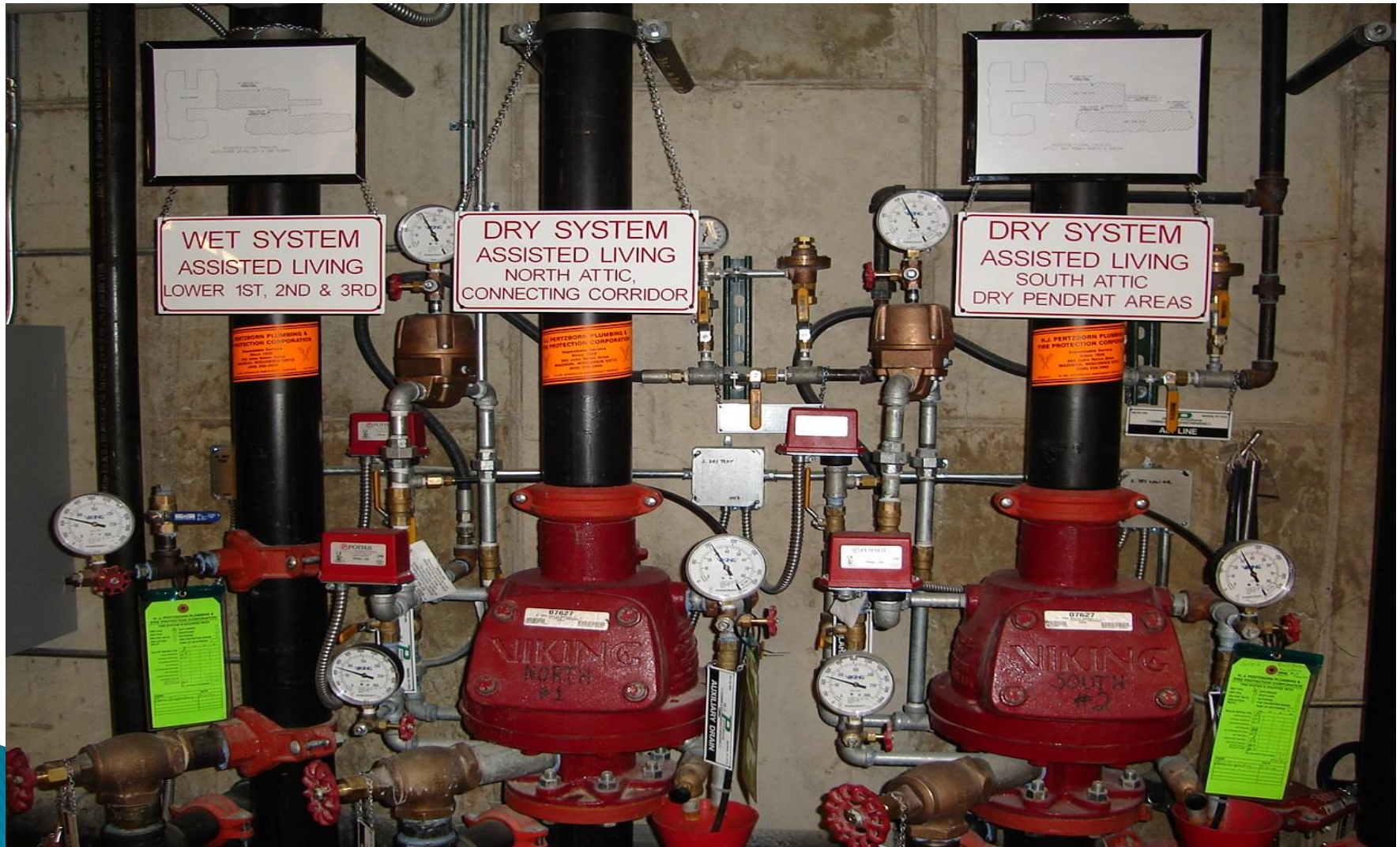


Signage

- ▶ #1 issue holding up approvals
- ▶ Everything must Match
- ▶ Requested signage on plan review letter should not be first discussed at the time of a C of O
- ▶ Outside
 - FDC
 - Fire lane
- ▶ Inside
 - Equipment Access
 - Controls and lock controls
 - Stairwell



Signage



Standpipes

- ▶ Hydrostatic test with visual inspection
- ▶ Hose valves accessible
- ▶ Flow test pressure reducing valves
- ▶ Pressures labeled



Fire Alarm

- ▶ 24-hour battery test
- ▶ Initiating devices
 - smokes,
 - pull stations,
 - water flow
- ▶ Sound levels
- ▶ Visual coverage
- ▶ Control Functions & interfaces
- ▶ Monitoring suppression systems
- ▶ Monitoring communications



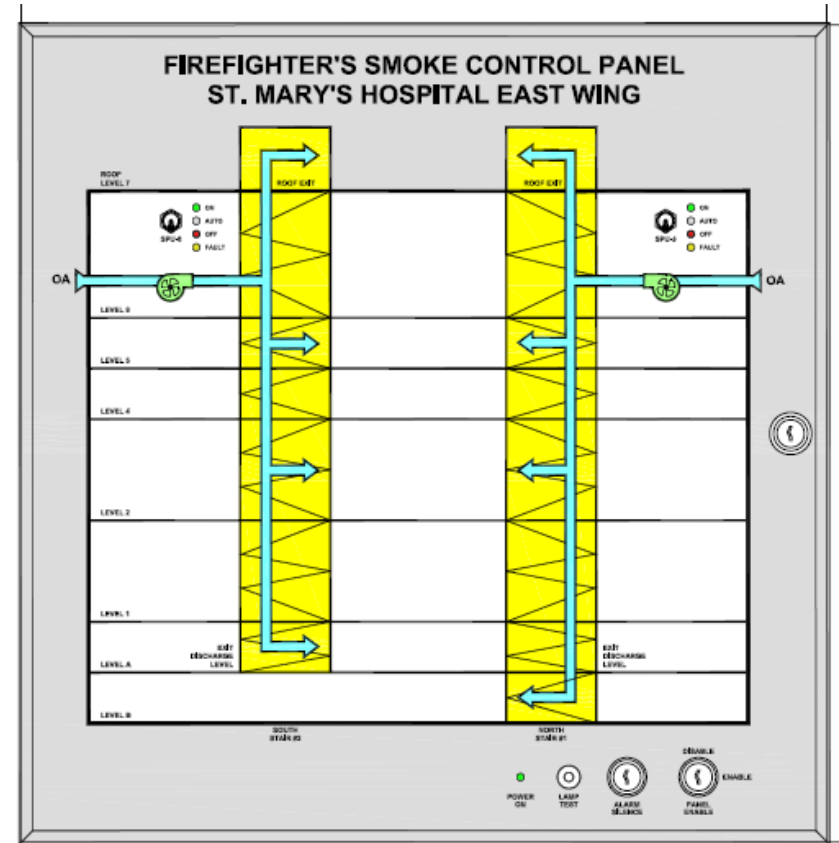
Electronic Locking

- ▶ Verify installation follows approved sequence
 - Fail safe vs. Fail Secure
- ▶ Overrides are present & functioning
- ▶ Connected to the fire alarm system and key switch
- ▶ Signage



Smoke Control/Stair Pressurization

- ▶ Fan Sequence is per Design
- ▶ Proper pressure differentials
- ▶ Doors still function
- ▶ Control opening stair doors during test



Radio Repeater

- ▶ Difficult to determine need until building is constructed
- ▶ Contract with outside company to measure signal strengths

Private Fire Hydrants

- ▶ Flushed & Tested
- ▶ Accessible
- ▶ Grading/flat work complete
- ▶ GPS coordinates
- ▶ Clearances
- ▶ Large diameter outlet facing fire lane



Elevators

- ▶ Pick up the phone or email
 - MFD: Free consulting
 - It's easier to address things prior to the Final Inspection
 - Hotline: (608) 266-4420
 - Or; (608) 443-9939
- ▶ Plan Approval Letter
 - Your questions and major problems are most likely already addressed in the letter

Elevators...Building Items

- ▶ Building Height, Use
- ▶ Rise
 - More than three floors with overnight sleeping?
 - Hoistway ventilation
 - Keyed override for hoistway ventilation
 - Four stories or more above grade? (4=4)
 - Group I, R-2, or healthcare/outpatient clinic?
 - Stretcher sized elevator 24"X84" 3500lb car

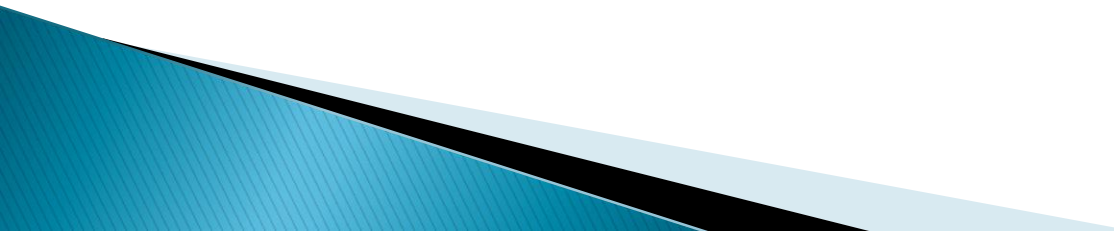
Elevators...Building Items

- ▶ Five stories or more above grade?
 - Standby power
 - At least one elevator must be on the generator
 - If it is a group all of them must be *capable* of emergency operation, though only one at a time is required.
 - Elevator controller cooling/ventilation must also be on the emergency circuit.

Elevators...Building Items

- ▶ High Rise? 75' above MFD truck access
 - Fire Command Center will require elevator status panel
 - Either need to provide fire rated elevator lobbies or pressurize the hoistway

Elevators...Let there be light

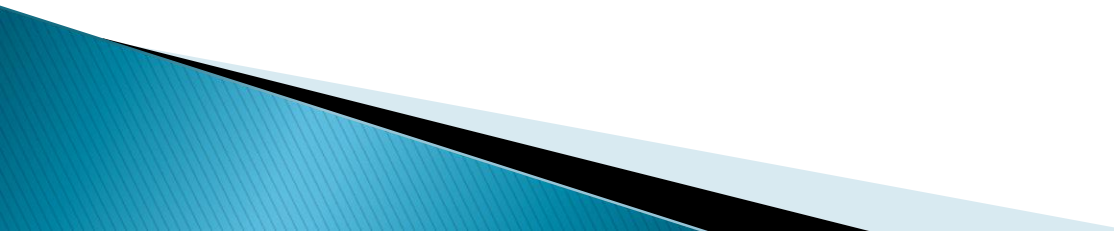
- ▶ 19 fc measured at controller and drive machine. Control room, hoistway...all 19fc!
Can't be motion controlled.
 - ▶ 10 fc in the elevator pit
 - ▶ 10 fc at every lobby sill. Measured with doors closed. Can be on 24/7 or motion control but not by switch.
- 

Housekeeping

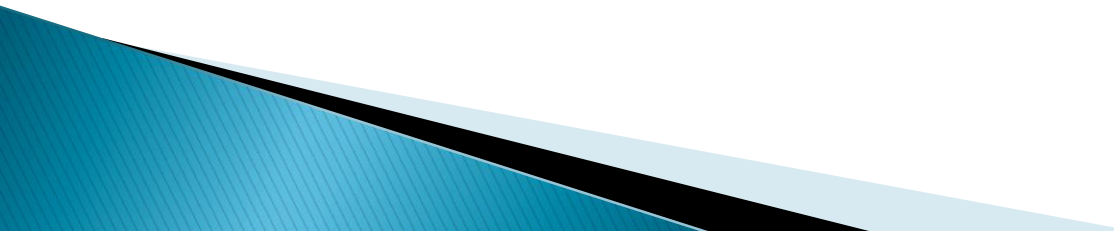
- ▶ Construction debris removed from site
- ▶ Sidewalks, handrails, & lighting completed out to public way
- ▶ Protective shipping covers removed
- ▶ Address and other signage posted
- ▶ Hardware installed



How to Schedule an Inspection

- ▶ The contractor responsible for the particular inspection/test needs to call. Re-inspection fee will be assessed to the permit holder.
 - ▶ Call Inspector's desk phone that is listed on the permit letter. 48-hour notice, more is ok.
 - ▶ Office Hours 7:15 till 9:00.
 - ▶ Will not block out entire days for a project.
 - ▶ Cancel ahead of time if you have an issue.
 - ▶ Coordinate with other trades.
- 

Future Initiatives

- ▶ Fire Sprinkler Requirements For Existing Buildings
 - ▶ FPD Process and System Improvements
 - ▶ Regular Training Sessions
 - ▶ NFSA Training on June 3 and 4
 - ▶ MFD Visits With Contractors and Staff
 - ▶ Please Pick-up The Phone and Call
- 

Questions??

- ▶ Thanks for your time!