

MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

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Structural Engineering, Technology, AV KJWW

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Building Envelope Consultant Insite Consulting Architects 115 E. Main Street, Suite 200 Madison, WI 53703 608.204.0825 tel

Code Consulting Summit Fire Consulting

575 Minnehaha Ave. W. St. Paul, MN 55103 651.251.1879 tel Acoustical Consultant

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Civil Engineers Vierbicher 999 Fourier Drive, Suite 201

Municipal Madison

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin. ENGINEER SEAL

artin Luther King, Jr. Madison, WI 53703

Print Names: MICHAEL NAKHLA Date: 03.24.2107 License No:___E-42619-6__

MARK DATE DESCRIPTION PROJECT NO.

2014057 PROJECT PHASE

> FIRE PROTECTION **DEMOLITION PLAN**

EXHIBIT K FP100D

DIVISION 21 CONSTRUCTION NOTES

1. FIRE PROTECTION CONTRACTOR'S SCOPE OF WORK INCLUDES DEMOLITION WORK AT GROUND LEVEL AT THE EXISTING VALVE ASSEMBLY. DEMOLITION INCLUDES REMOVAL OF EXISTING STANDPIPE PROTECTION. SCOPE OF WORK TO INCLUDE NEW VALVE ASSEMBLIES, STANDPIPE SYSTEM AND SPRINKLER PROTECTION AT GROUND LEVEL THROUGH LEVEL 3.

2. ALL AREAS ASSUME LIGHT HAZARD PROTECTION IN ACCORDANCE WITH NFPA 13 (2010) UNLESS NOTED OTHERWISE.

3. MANUAL, WET STANDPIPES WITH 2 1/2" HOSE CONNECTIONS ARE REQUIRED

4. CONFIRM STANDPIPE AND SPRINKLER SYSTEM PIPE SIZING VIA HYDRAULIC CALCULATIONS

5. PROVIDE ALL SYSTEM COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION. SYSTEM COMPONENTS SHALL INCLUDE BUT ARE NOT LIMITED TO DISTRIBUTION PIPING, SPRINKLER PIPING, SPRINKLERS, PIPE SUPPORTS, ALARMS, DRAINS, TEST CONNECTIONS, CONTROL VALVES

6. CONCEALED SPRINKLERS REQUIRED IN AREAS WITH FINISHED CEILINGS.

7. ALL COMPONENTS OF THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13 (2010), NFPA 14 (2010) AND NFPA 25 (2008)

8. TAMPER SWITCHES, FLOW SWITCHES AND HORN & STROBES ARE TO BE PROVIDED AND INSTALLED BY THE FIRE PROTECTIN CONTRACTOR AND WIRED BY DIVISION 28.

9. TESTING OF SPRINKLER PIPING SHALL BE IN ACCORDANCE WITH NFPA 13 (2010) - 200 PSI FOR 2 HRS

10. SHOP DRAWINGS SHALL BE APPROVED BY THE OWNER'S DESIGNATED REPRESENTATIVE AND THE CITY OF MADISON PRIOR TO FABRICATION

11. HANG ALL PIPING PER NFPA 13 (2010) - CHAPTER 9. CONTRACTOR SHALL INDICATE ALL PIPE SUPPORTS.

1 GROUND LEVEL 1/8" = 1'-0"

12. STEEL PIPING IS REQUIRED IN ALL AREAS WITH THE EXCEPTION OF CPVC PIPING TO FEED ROOM 260

13. UNLESS NOTED OTHERWISE ALL AREAS INCLUDE WET SPRINKLER SYSTEMS. TEMPERATURES MAINTAINED GREATER THAN OR EQUAL TO 40 DEGREES FAHRENHEIT AT ALL TIMES, AT THE RESPONSIBILITY OF THE OWNER

14. ALL PENETRATIONS AT FIRE BARRIERS OR OTHER RATED ASSEMBLIES ARE REQUIRED TO BE SEALED IN ACCORDANCE WITH THE 2009 INTERNATIONAL BULIDING CODE OR OTHER APPROVED MEANS.

15. COORDINATION IS REQUIRED WITH ALL TRADES. PROVIDE SPRINKLER PROTECTION ABOVE AND BELOW ALL OBSTRUCTIONS.

SHEET NOTES:

1. INSTALL VALVE ASSEMBLY AT NEW UNDERGROUND LEAD-IN

2. GROUND LEVEL SUPPLIED BY A DEDICATED ZONE

3. LEVELS 1 THROUGH 3 ARE SUPPLIED BY A SINGLE ZONE. DUE TO

HISTORICALLY SENSITIVE AREAS AT UPPER LEVELS, ROUTE PIPING AT GROUND LEVEL AND RISE VERTICALLY THROUGH THE BUILDING AT LOCATIONS AS INDICATED ON THE DRAWINGS.

4. PIPE ROUTING AT GROUND LEVEL TO BE EXPOSED BELOW NEW ACCOUSTICAL TILES. PIPING CONCEALED ABOVE 8FT GYP/ACT

HOSE VALVES INSTALLED AT HIGHEST INTERMEDIATE LANDING.

SUPERVISED BY DIVISION 28

8. BRANCHLINE PIPING TO BE APPROX 9'-3" AFF UNLESS NOTED

SPRINKLER LEGEND

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Project #7939

2014057

BID SET

FIRE PROTECTION

PLAN

EXHIBIT K

FP100

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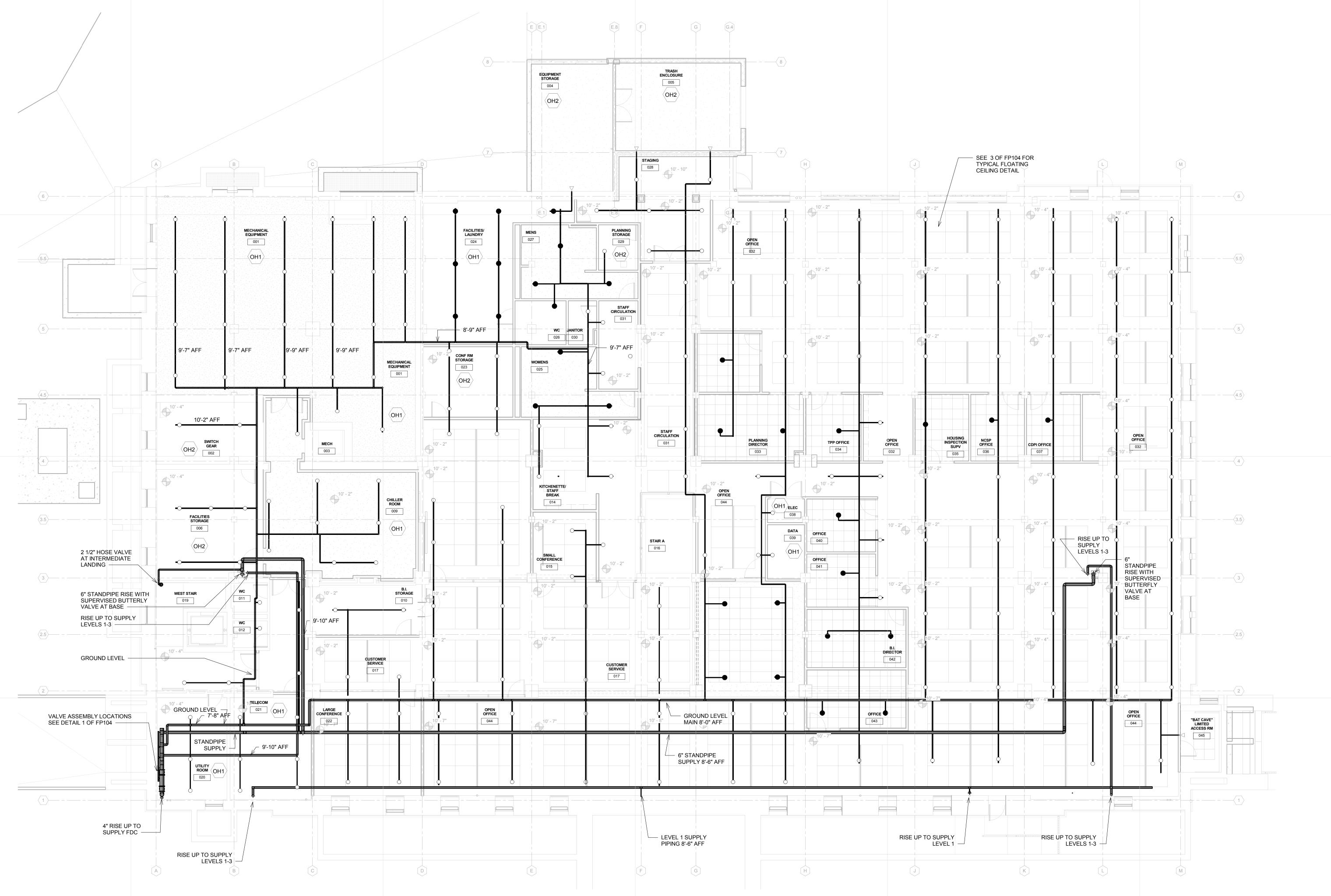
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 CONCEALED SPRINKLER © ● CONCEALED SPRINKLER - EXTENDED COVERAGE → HORIZONTAL SIDEWALL - CONCEALED ► HORIZONTAL SIDEWALL - CONCEALED EXTENDED COVERAGE NOTE: UPRIGHT SPRINKLER DRY EXTENDED COVERAGE SPRINKLER HAZARD CLASSIFICATION LEGEND 5. ROUTE STANDPIPE SUPPLY WITHIN CHASE BEHIND STAIRWELLS. LH > *LIGHT HAZARD 6. ALL PIPING AT GROUND LEVEL TO BE STEEL PIPING OH1 ORDINARY HAZARD GROUP 1 7. PROVIDE BUTTERFLY VALVES AT BASE OF STANDPIPE OH2 ORDINARY HAZARD GROUP 2 *ALL AREAS WITHOUT DESIGNATION TO BE DESIGNED IN ACCORDANCE WITH LIGHT HAZARD PER NFPA 13



SHEET NOTES:

1. LEVELS 1 THROUGH 3 ARE SUPPLIED BY A SINGLE ZONE. DUE TO HISTORICALLY SENSITIVE AREAS AT UPPER LEVELS, ROUTE PIPING AT GROUND LEVEL AND RISE VERTICALLY THROUGH THE BUILDING AT LOCATIONS AS INDICATED ON THE DRAWINGS.

2. PIPE ROUTING AT LEVEL 1 TO BE EXPOSED BELOW NEW ACCOUSTICAL TILES. SEE 3 OF FP104 FOR DETAIL.

3. PIPE ROUTING NOT ALLOWED THROUGH EXISTING HISTORIC CORRIDOR. PROVIDE CONCEALED SIDEWALLS.

4. FDC TO BE LOCATED AS SHOWN. ARCHITECT TO PROVIDE "BOX OUT" TO CONCEAL PIPING.

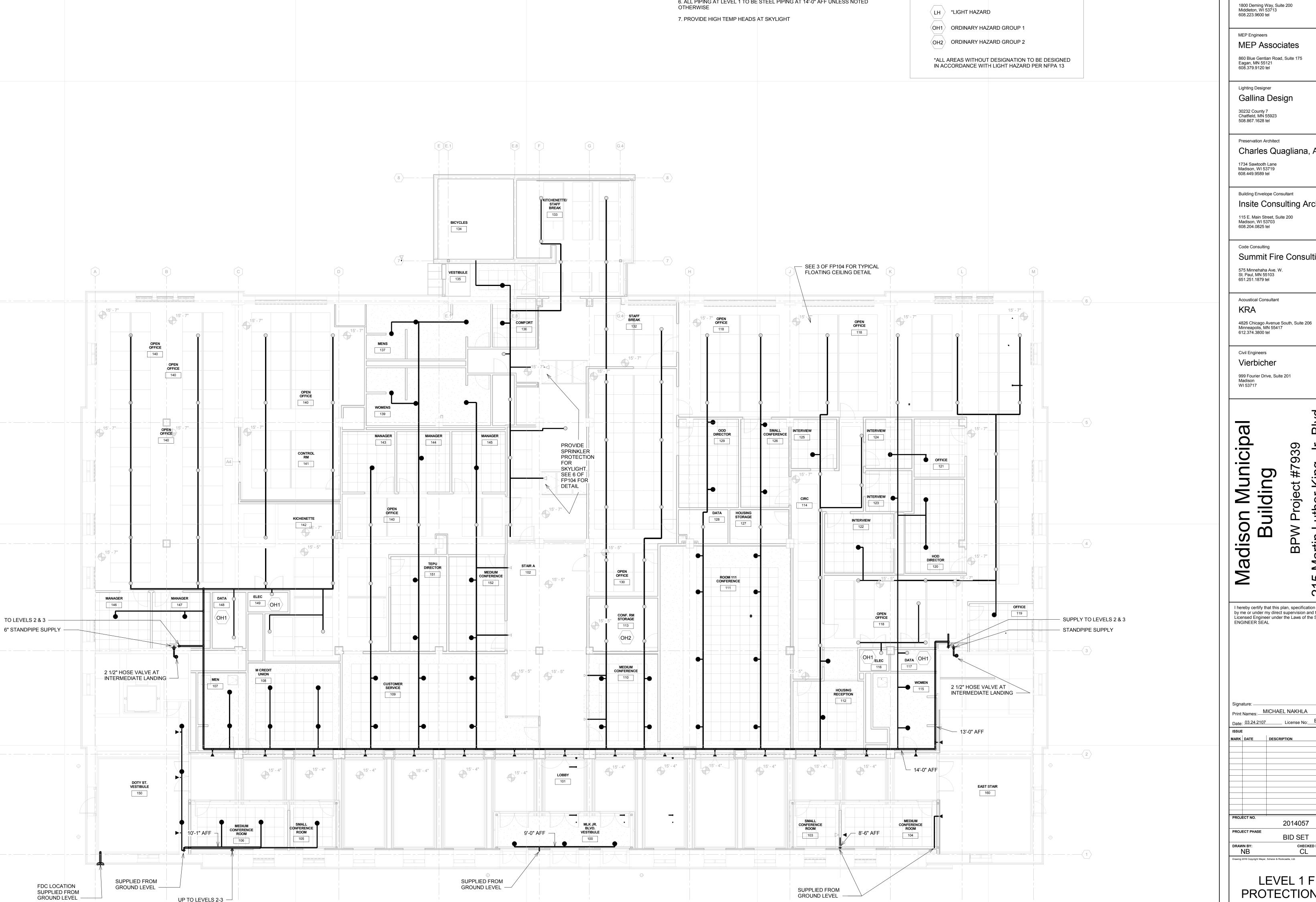
5. ROUTE STANDPIPE SUPPLY WITHIN CHASE BEHIND STAIRWELLS. HOSE VALVES INSTALLED AT HIGHEST INTERMEDIATE LANDING. 6. ALL PIPING AT LEVEL 1 TO BE STEEL PIPING AT 14'-0" AFF UNLESS NOTED

SPRINKLER LEGEND CONCEALED SPRINKLER

- © CONCEALED SPRINKLER EXTENDED COVERAGE
- → HORIZONTAL SIDEWALL CONCEALED ► HORIZONTAL SIDEWALL - CONCEALED EXTENDED COVERAGE
- © ▷ HORIZONTAL SIDEWALL EXTENDED COVERAGE UPRIGHT SPRINKLER

DRY EXTENDED COVERAGE SPRINKLER

HAZARD CLASSIFICATION LEGEND



UP TO LEVELS 2-3 -

1 LEVEL 1 1/8" = 1'-0"

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Martin Luther King, Jr. Madison, WI 53703 Project #7939 Building

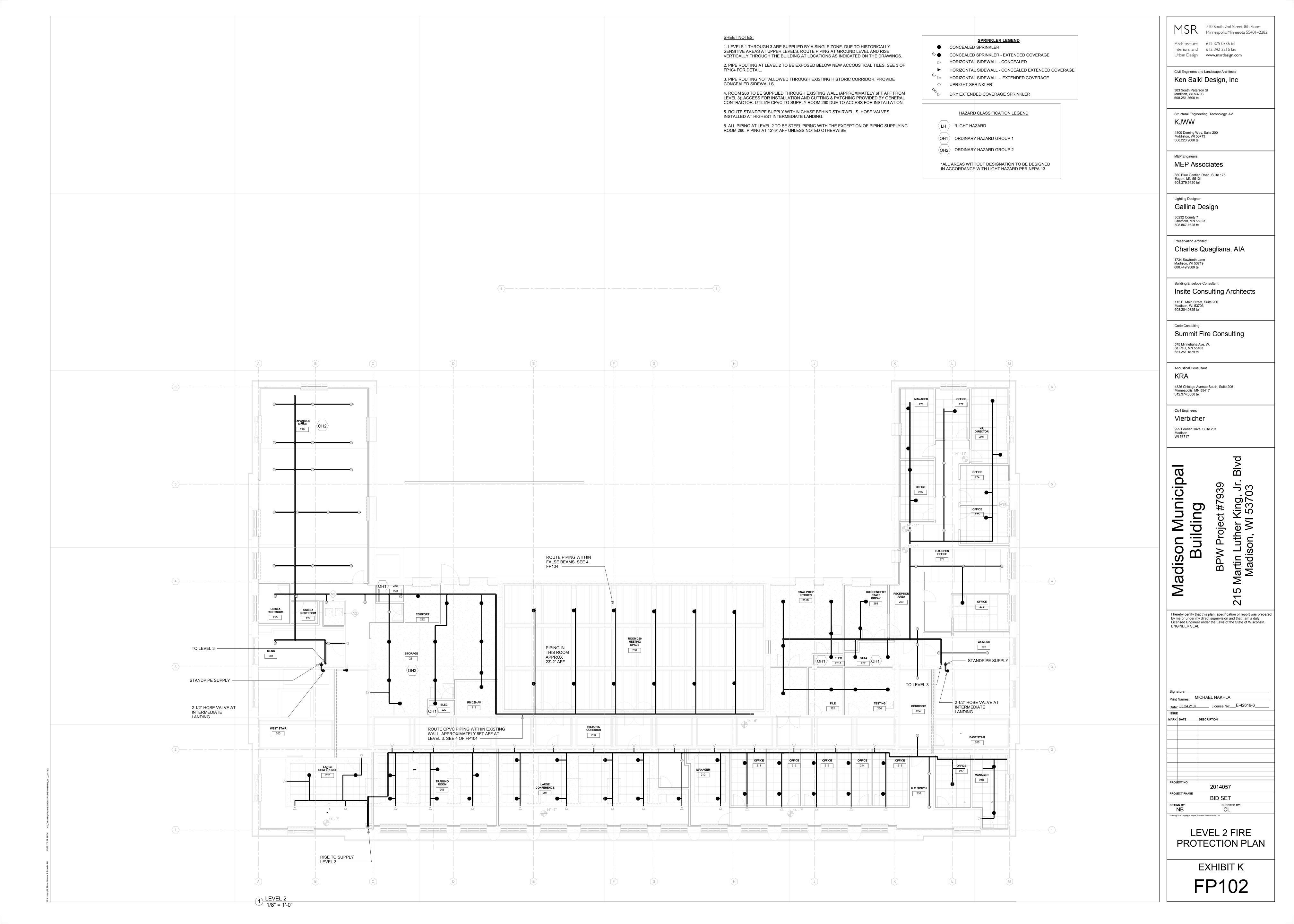
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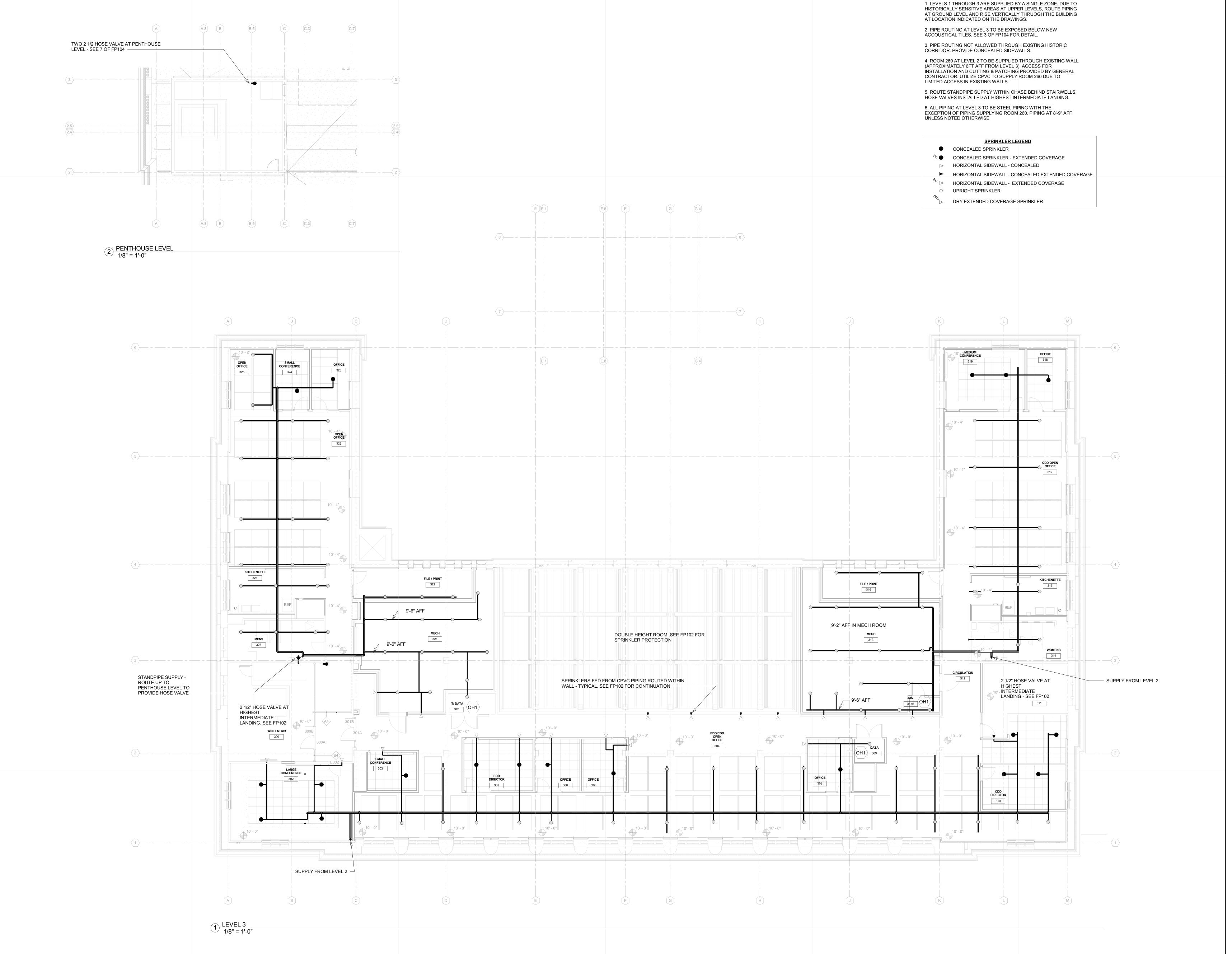
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LEVEL 1 FIRE PROTECTION PLAN

> EXHIBIT K FP101





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MARK DATE DESCRIPTION

PRO JECT NO

2014057

PROJECT PHASE

BID SET

DRAWN BY: CHECKED BY:

NB CL

LEVEL 3 FIRE PROTECTION PLAN

EXHIBIT K **FP103**

