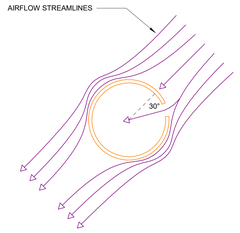
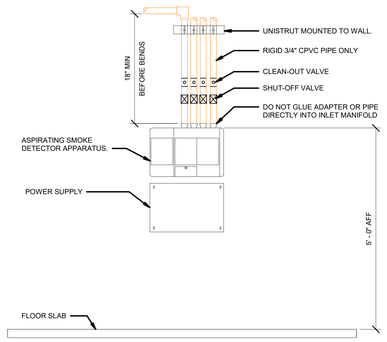


WHEN INSTALLED IN HIGH AIRFLOW ENVIRONMENTS, THE SAMPLING PORT SHOULD BE ORIENTED 20° TO 40° FROM THE INCOMING AIR.

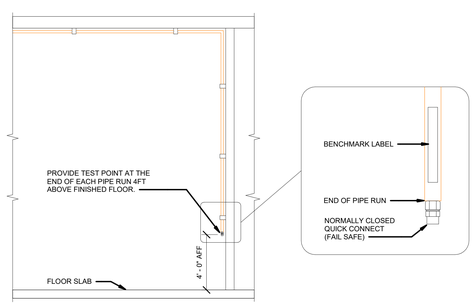
7 AIR SAMPLING HOLE ORIENTATION
NTS



NOTES:

1. ASSD APPARATUS SHALL BE MOUNTED TO A WALL IN THE PROTECTED ROOM AT A MAXIMUM HEIGHT OF 5 FT TO TOP OF APPARATUS MEASURED ABOVE FINISHED FLOOR.
2. MOUNTING LOCATION SHALL BE A FULLY ACCESSIBLE AND IN A VISIBLE LOCATION.
3. MOUNTING OR ATTACHMENT TO SITE EQUIPMENT, CABLE TRAYS, MOVABLE WALLS, OTHER EQUIPMENT OR EQUIPMENT SUPPORTS IS NOT PERMITTED.
4. PIPING NETWORK INSERTION INTO THE DETECTOR INLET SHALL NOT BE GLUED.
5. FLEXIBLE TUBING FOR TERMINATION OF THE SAMPLING PIPE NETWORK INTO DETECTOR INLET IS NOT PERMITTED.
6. AIR SAMPLING SMOKE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS, THE MANUFACTURER'S INSTALLATION AND INSTRUCTION MANUALS.
7. INSTALLATION TECHNIQUES SHALL BE IN COMPLIANCE WITH THE GEOGRAPHICAL SEISMIC ZONE REQUIREMENTS IN SEISMIC ZONES PER THE AHJ.
8. EXHAUST PORT FOR BELOW-FLOOR ASSD PANELS SHALL BE PIPED BACK TO THE SAME BELOW-FLOOR SPACE AS THE SAMPLING PORTS MONITOR TO ELIMINATE PRESSURE DIFFERENTIAL ACROSS ASSD PANEL.

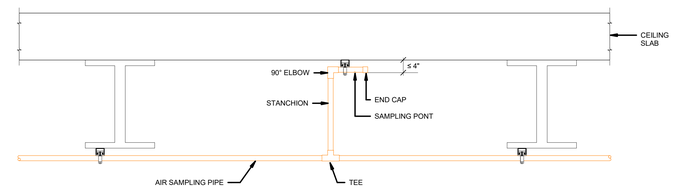
6 TYPICAL DETECTOR MOUNTING DETAIL
NTS



NOTES:

1. BENCHMARK TEST POINT SHALL BE PROVIDED AT THE FURTHEST END OF EACH PIPE RUN, OPPOSITE END OF THE ASSD APPARATUS.
2. PROVISIONS SHALL BE MADE SO THAT THIS TEST POINT CAN BE LOCATED MAXIMUM 4FT ABOVE FINISHED FLOOR.
3. THE TEST POINT SHALL BE CONSTRUCTED USING A NORMALLY CLOSED INDUSTRIAL QUICK CONNECT HAVING AN ORIFICE OF NOMINAL 1/8 INCH (3.2MM) WHEN OPEN TO FACILITATE BENCHMARK PERFORMANCE VERIFICATION.
4. THIS REMOTE TEST POINT IS INTENDED TO BENCHMARK SYSTEM PERFORMANCE AT TIME OF INITIAL COMMISSIONING AND DURING ROUTINE TEST AND INSPECTION.
5. THE TEST POINT SHALL BE LABELED DOCUMENTING BENCHMARK SYSTEM PERFORMANCE AT TIME OF COMMISSIONING USING MANUFACTURER SUPPLIED LABELS INTENDED FOR THIS PURPOSE.
6. BENCHMARK LABELS SHALL BE PLACED DIRECTLY ABOVE THE TEST POINT AND BE POSITIONED SO THAT THEY ARE VISIBLE WITHOUT OBSTRUCTION.

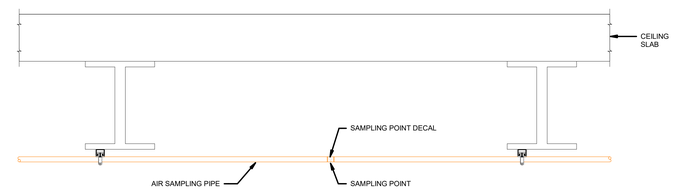
5 TYPICAL BENCHMARK TEST POINT DETAIL
NTS



NOTES:

1. AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL BE CONSTRUCTED USING RIGID PIPE MOUNTED TO BOTTOM OF STRUCTURAL BEAMS WITH STANCHIONS EXTENDING UP INTO EACH BEAM POCKET AT LOCATIONS WHERE SAMPLING POINTS ARE REQUIRED.
2. MECHANICAL PIPE FASTENERS AND HANGERS SHALL BE APPROVED FOR USE WITH PIPE MATERIAL IN WHICH IT IS SUPPORTING.
3. SAMPLING POINTS SHALL BE DRILLED DIRECTLY INTO THE PIPE STANCHIONS, BE ORIENTED DOWNWARD AND BE WITHIN FOUR INCHES BELOW THE UNDERSIDE OF THE STRUCTURAL CEILING.
4. ALL SAMPLING POINTS SHALL BE IDENTIFIABLE USING MANUFACTURER PROVIDED LABELING.
5. SAMPLING POINTS SHALL BE PLACED CENTER OF EACH BEAM POCKET. MAXIMUM COVERAGE PER SAMPLING POINT SHALL NOT EXCEED SPECIFIED LIMITS. WHERE MULTIPLE SAMPLING POINTS ARE REQUIRED TO COVER A SINGLE BEAM POCKET SAMPLING POINTS SHALL BE EVENLY SPACED WITHIN THE POCKET.
6. SAMPLING POINTS SHALL BE INSTALLED IN AN AREA ON THE CEILING THAT IS FREE FROM OBSTRUCTIONS FOR A MINIMUM OF 18 INCHES ON ALL SIDES. SAMPLING POINTS SIZED IN ACCORDANCE WITH CALCULATIONS. MAXIMUM TRANSPORT TIME FROM THE LAST SAMPLE POINT ON EACH PIPE RUN SHALL NOT EXCEED SPECIFIED LIMITS.

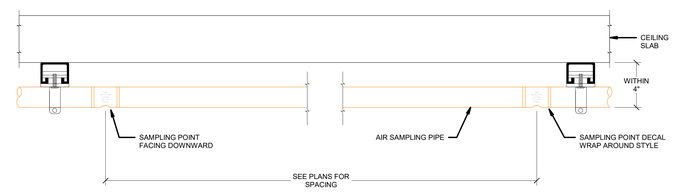
4 UNDERSIDE BEAM SAMPLING (POCKET PER NFPA 72)
NTS



NOTES:

1. AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL BE CONSTRUCTED USING RIGID PIPE MOUNTED TO BOTTOM OF STRUCTURAL BEAMS.
2. MECHANICAL PIPE FASTENERS AND HANGERS SHALL BE APPROVED FOR USE WITH PIPE MATERIAL IN WHICH IT IS SUPPORTING.
3. SAMPLING POINTS SHALL BE DRILLED DIRECTLY INTO THE SAMPLING PIPE AND BE ORIENTED DOWNWARD.
4. ALL SAMPLING POINTS SHALL BE IDENTIFIABLE USING MANUFACTURER PROVIDED LABELING.
5. MAXIMUM COVERAGE PER SAMPLING POINT SHALL NOT EXCEED SPECIFIED LIMITS.
6. SAMPLING POINTS SHALL BE INSTALLED IN AN AREA ON THE CEILING THAT IS FREE FROM OBSTRUCTIONS FOR A MINIMUM OF 18 INCHES ON ALL SIDES.
7. SAMPLING POINTS SIZED IN ACCORDANCE WITH CALCULATIONS. MAXIMUM TRANSPORT TIME FROM THE LAST SAMPLE POINT ON EACH PIPE RUN SHALL NOT EXCEED SPECIFIED LIMITS.

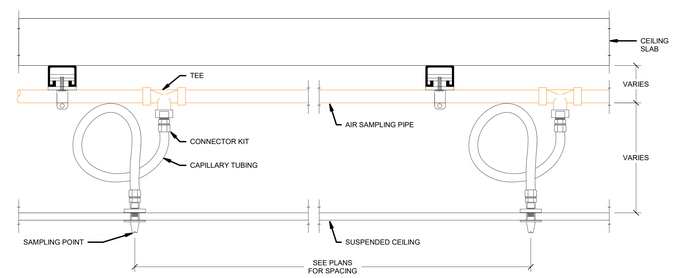
3 UNDERSIDE BEAM SAMPLING (SMOOTH CEILING)
NTS



NOTES:

1. AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL BE CONSTRUCTED USING RIGID PIPE MOUNTED TO THE UNDERSIDE OF THE CEILING.
2. SAMPLING POINTS SHALL BE DRILLED DIRECTLY INTO THE AIR SAMPLING PIPE DISTRIBUTION NETWORK AND ORIENTATED DOWNWARD.
3. ALL SAMPLING POINTS SHALL BE IDENTIFIABLE USING MANUFACTURER PROVIDED LABELING.
4. SAMPLING POINTS SHALL BE WITHIN 4 INCHES BELOW THE UNDERSIDE OF THE CEILING WHERE THE CEILING IS SMOOTH.
5. MAXIMUM COVERAGE PER SAMPLING POINT SHALL NOT EXCEED SPECIFIED LIMITS.
6. SAMPLING POINTS SHALL BE INSTALLED IN AN AREA ON THE CEILING THAT IS FREE FROM OBSTRUCTIONS FOR A MINIMUM OF 18 INCHES ON ALL SIDES.
7. SAMPLING POINTS SIZED IN ACCORDANCE WITH CALCULATIONS.
8. MAXIMUM TRANSPORT TIME FROM THE LAST SAMPLE POINT ON EACH PIPE RUN SHALL NOT EXCEED SPECIFIED LIMITS.
9. NOT FOR USE UNDER CEILING TILES. REFER TO 1/FA05-02 FOR ASSD WITH CEILING TILES.

2 AIR SAMPLING BELOW STRUCTURAL CEILING
NTS



NOTES:

1. AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL BE CONSTRUCTED USING RIGID PIPE MOUNTED TO THE UNDERSIDE OF THE CEILING.
2. WHERE SUSPENDED CEILING ARE PRESENT SAMPLING POINTS SHALL BE REMOTELY MOUNTED WITHIN 4 INCHES TO THE UNDERSIDE OF THE SUSPENDED CEILING AND BE ORIENTED DOWNWARD.
3. REMOTE SAMPLING POINTS SHALL INTERCONNECT WITH AIR SAMPLING PIPE DISTRIBUTION NETWORK LOCATED ABOVE THE SUSPENDED CEILING VIA USE OF FLEXIBLE "CAPILLARY" TUBING RUNNING EITHER SIDE OF EACH SAMPLING PIPE RUN TO THE CORRESPONDING REMOTE SAMPLING POINT.
4. ALL SAMPLING POINTS SHALL BE IDENTIFIABLE USING MANUFACTURER PROVIDED LABELING.
5. MAXIMUM COVERAGE PER SAMPLING POINT SHALL NOT EXCEED SPECIFIED LIMITS.
6. SAMPLING POINTS SIZED IN ACCORDANCE WITH CALCULATIONS.
7. MAXIMUM TRANSPORT TIME FROM THE LAST SAMPLE POINT ON EACH PIPE RUN SHALL NOT EXCEED SPECIFIED LIMITS.

1 CAPILLARY AIR SAMPLING THROUGH SUSPENDED CEILING
NTS

DEFERRED SUBMITTAL ALL WORK SHOWN IS TO ILLUSTRATE DESIGN INTENT

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TGRWA STRUCTURAL ENGINEERS
kW Mission Critical Engineering Member of WSP
EP ENGINEERING PLUS
Kimley»Horn

ISSUES

3	01.23.2026	60% DESIGN DELIVERABLE

REVISIONS

kW Mission Critical Engineering
Contact: Stephan Slabicky Phone: 212.951.3943
Engineer: EOR
License #: 123456 Exp. Date: 00/00/0000

NOT FOR CONSTRUCTION

Date: 00/00/0000

SERVERFARM

Clarksville, AR

FIRE ALARM DETAILS

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