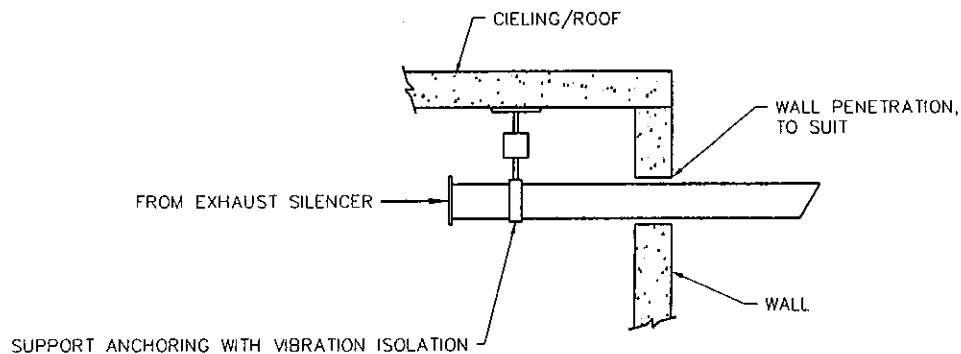


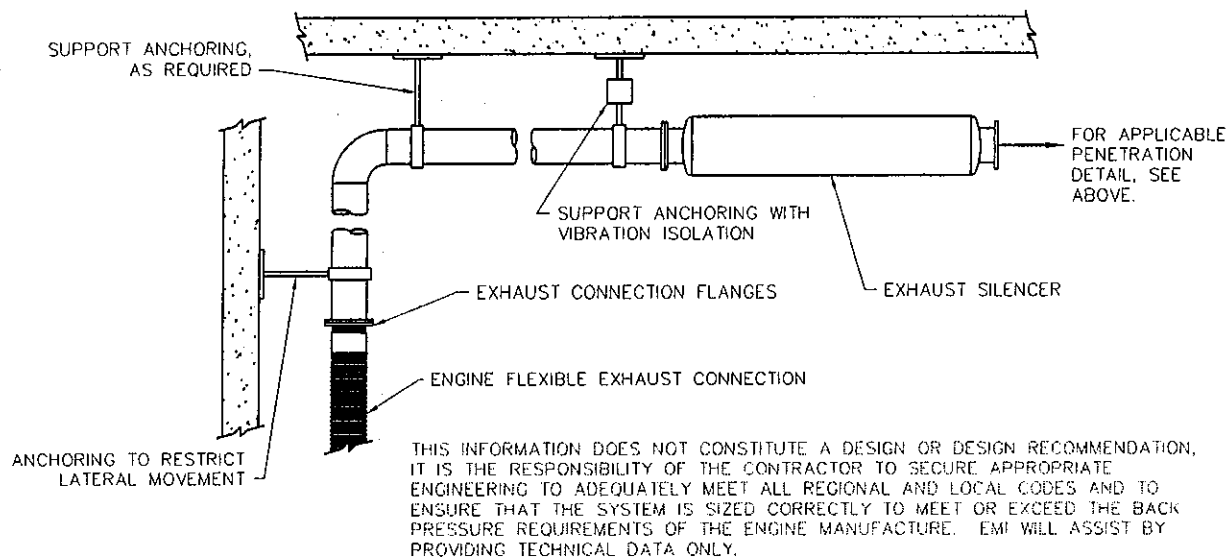
REFERENCE DETAILS FOR ROOF EXHAUST PENETRATION



REFERENCE DETAILS FOR WALL EXHAUST PENETRATION

GENERAL NOTES:

- 1) ALLOWANCE FOR DIFFERENTIAL THERMAL EXPANSION SHOULD BE CONSIDERED WHEN DESIGNING THE INSTALLATION DETAILS.
- 2) EXHAUST SYSTEM DESIGN SHOULD CONSIDER THAT NO FORCES OR MOMENTS ARE IMPOSED ON THE DIESEL ENGINE EXHAUST CONNECTIONS. THIS IS ESPECIALLY CRITICAL IN THE CASE OF A TURBOCHARGED ENGINE. ALL EXHAUST PIPING SHOULD BE SUPPORTED WITH A PROPER SELECTION OF RIGID AND ISOLATION SUPPORTS TO PREVENT UNDUE TRANSMISSION OF LOADS TO ENGINE EXHAUST.
- 3) THE EXHAUST SILENCER CAN BE MOUNTED IN ANY POSITION, BUT IT WILL GIVE THE BEST PERFORMANCE MOUNTED AS CLOSE TO THE END OF THE EXHAUST SYSTEM AS POSSIBLE.
- 4) THE EXHAUST SYSTEM SHOULD SLOPE DOWNWARD TO THE END OF THE EXHAUST SYSTEM AS MUCH AS POSSIBLE. A TYPICAL SLOPE MIGHT BE 1/8" TO THE FOOT.
- 5) IN CASES WHERE THERMAL ISOLATION WILL NOT BE INSTALLED, MAINTAIN A SAFE DISTANCE BETWEEN THE EXHAUST PIPE AND ADJOINING EQUIPMENT AND STRUCTURES.
- 6) ONLY LONG RADIUS ELBOWS SHOULD BE USED IN THE INSTALLATION.
- 7) A BIRD SCREEN AND IF APPLICABLE, A RAIN CAP ARE RECOMMENDED ADDITIONS TO THE SYSTEM.
- 8) THE INSTALLER MUST MEET ALL APPLICABLE CODES AND REQUIREMENTS WHEN INSTALLING THIS SYSTEM.
- 9) ADEQUATE PROTECTION IS REQUIRED TO ENSURE THAT PERSONNEL DO NOT COME IN CONTACT WITH HOT SURFACES.



CONSIDERATIONS WHEN INSTALLING DIESEL ENGINE EXHAUST SYSTEMS