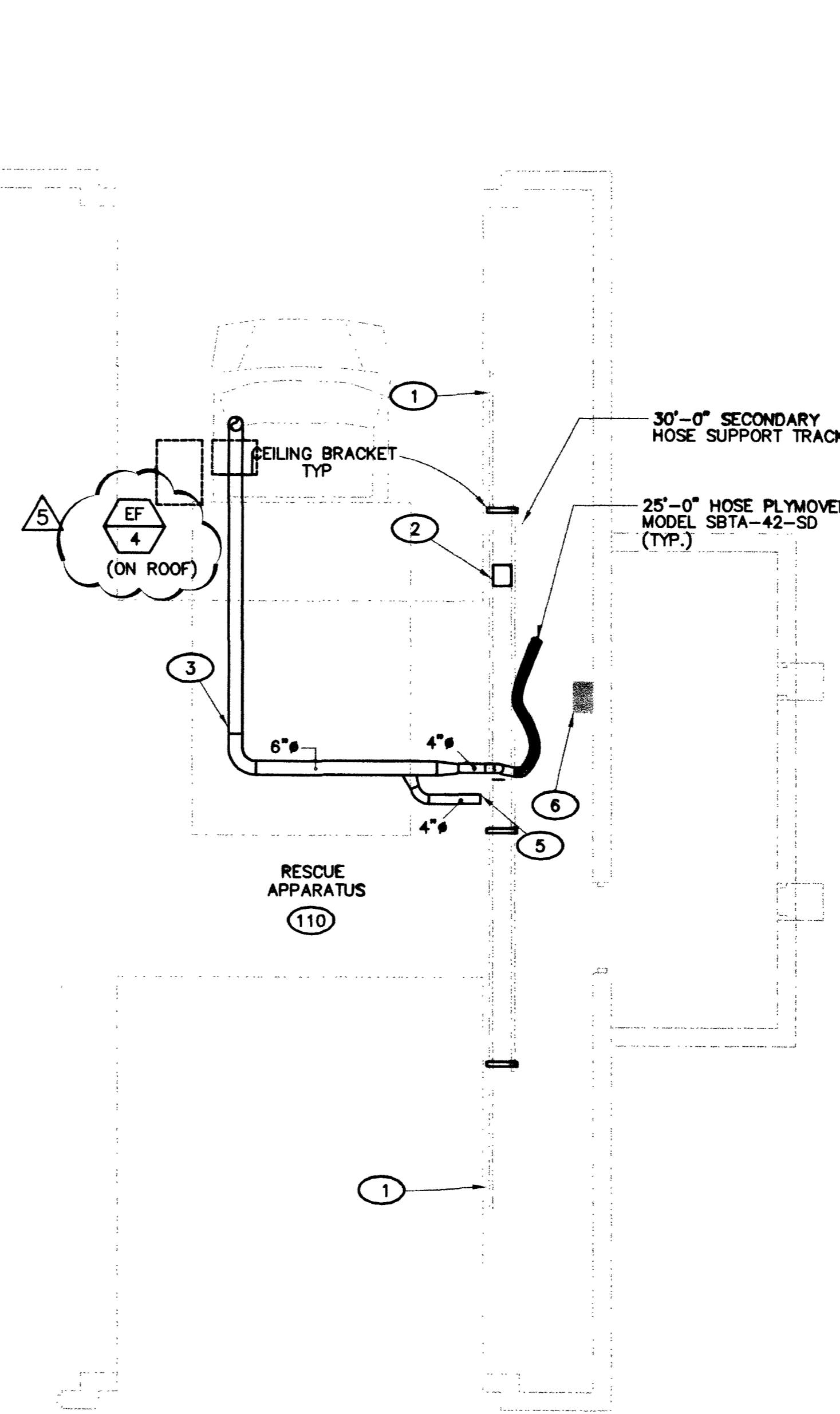


2 Vehicle Exhaust Plan
M-05 1/4"=1'-0"



1 Vehicle Exhaust Plan
M-05 1/4"=1'-0"

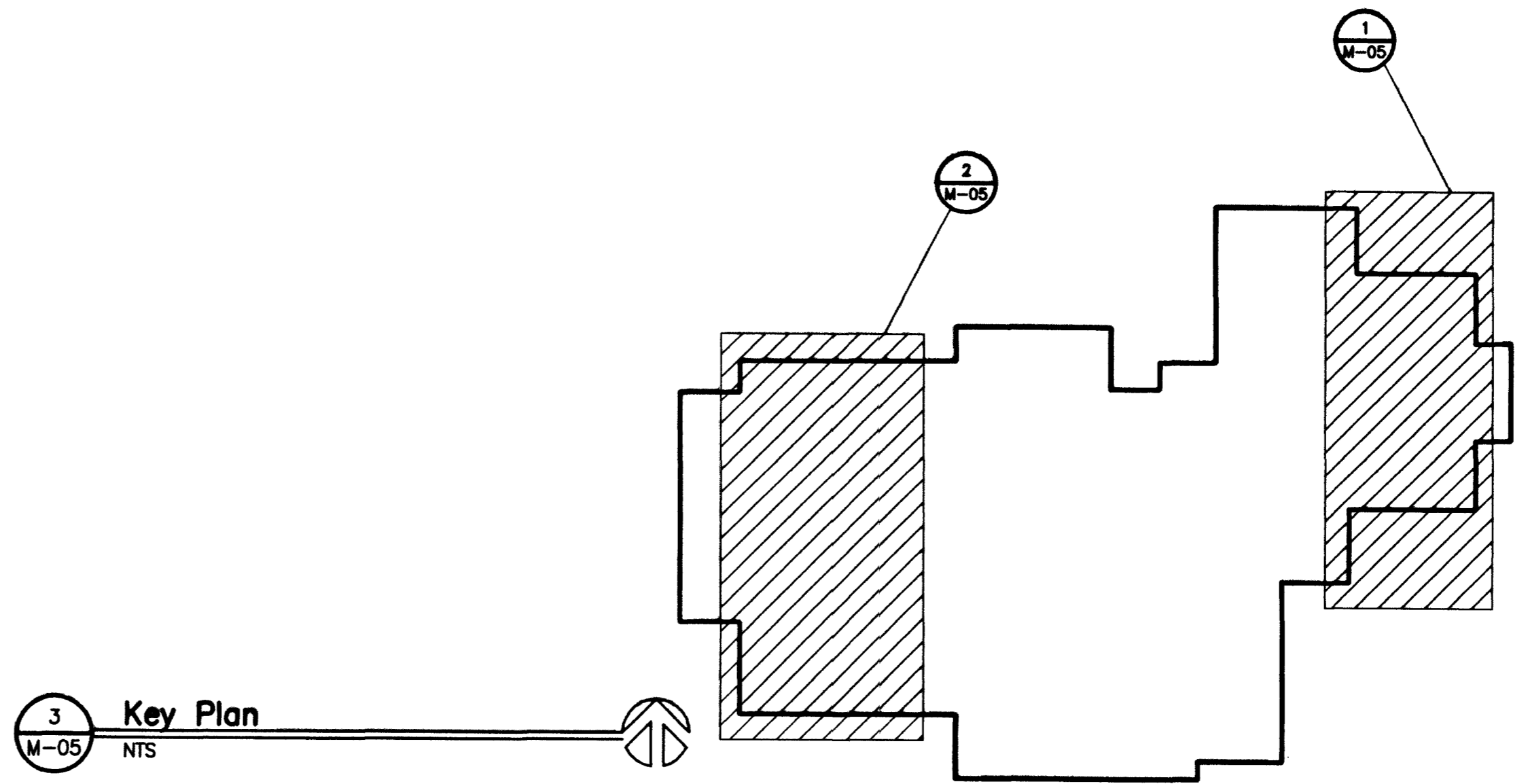
- KEY NOTES**
- PLYMOVENT MODEL #SBTA-25-SD HEAVY GAUGE TRACK SUSPENDED FROM STRUCTURE PER MANUFACTURERS INSTRUCTIONS.
 - PLYMOVENT SPRING RECOIL BALANCER WITH TROLLEY SYSTEM (TYPICAL)
 - ROUTE 6" DIA. EXHAUST DUCT UP THRU ROOF TO EF-5, SEE DETAIL.
 - ROUTE 8" DIA. EXHAUST DUCT UP THRU ROOF TO EF-4, SEE DETAIL.
 - CAP 4" DIA. EXHAUST DUCT FOR FUTURE CONNECTION TO FUTURE HOSE.
 - VEHICLE EXHAUST CONTROL PANEL, PLYMOVENT MODEL OS2-32083, MOUNT ON CMU WALL PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL COORDINATE LOCATION WITH THE GENERAL CONTRACTOR. COORDINATE ALL CONTROLS AND ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
 - VEHICLE EXHAUST CONTROL PANEL, PLYMOVENT MODEL OS2-72083, MOUNT ON CMU WALL PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL COORDINATE LOCATION WITH THE GENERAL CONTRACTOR. COORDINATE ALL CONTROLS AND ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
 - 45'-0" HOSE, PLYMOVENT MODEL SBTA-45-SD (TYP.)

VEHICLE EXHAUST SEQUENCE OF OPERATIONS

UPON THE VEHICLE'S RETURN TO THE APPARATUS ROOM OF THE FIRE STATION, A FOUR INCH FLEXIBLE HOSE EQUIPPED WITH THE PNEUMATIC "GRABBER" NOZZLE IS MANUALLY ATTACHED TO THE TAIL PIPE OF THE VEHICLE. THE EXHAUST FAN IS TURNED ON AUTOMATICALLY WHEN THE PRESSURE SENSORS, LOCATED IN THE DUCTING BETWEEN THE FLEXIBLE HOSE AND THE EXHAUST FAN, DETECT PRESSURE FROM THE EXHAUST SYSTEM OF THE VEHICLE. THE "GRABBER" NOZZLE IS INFLATED BY A MANUAL FILL VALVE LOCATED ON THE FLEXIBLE HOSE JUST ABOVE THE SAFETY DISCONNECT. THE VEHICLE CAN THEN BE MOVED INTO THE FIRE HOUSE AND PARKED IN ITS DESIGNATED POSITION.

AS THE VEHICLE LEAVES THE APPARATUS ROOM, THE FLEXIBLE HOSE WITH THE "GRABBER" NOZZLE TRAVELS ALONG THE SIDING BALANCER TRACK CONFIGURED WITH A SPRING COIL BALANCER. THE BALANCER IS USED TO KEEP EXCESS HOSE SLACK AWAY FROM THE FLOOR AND AWAY FROM THE APPARATUS. AT THE END OF THE TRAVEL OF THE BALANCER, THE UNCOUPLING VALVE RELEASES THE UNCOMPRESSED AIR FROM THE "GRABBER" NOZZLE ALLOWING FOR SMOOTH UNCOUPLING OF THE EXHAUST REMOVAL SYSTEM. THE EXHAUST FAN IS SHUT DOWN AFTER A 3 TO 4 MINUTE TIME PERIOD AFTER DEPARTURE.

GENERAL NOTES:
 VEHICLE EXHAUST SYSTEM AND HOSES MUST BE ABLE TO WITHSTAND IN-STATION MAINTENANCE PROCEDURES WHILE CONNECTED TO SYSTEM.
 MANUFACTURER SHALL PROVIDE MIN. 5-YEAR WARRANTY ON ALL HOSES. MANUFACTURER OF SYSTEM SHALL BE PLYMOVENT 1-800-998-1974. REFER TO SPECIFICATION SECTION 15831 FOR ADDITIONAL INFORMATION.



3 Key Plan
M-05 NTS



REVISIONS

5	7-24-02	MISLABELED EXH. FANS
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CITY OF LAS VEGAS, NEVADA
 FIRE STATION #44
 VEHICLE EXHAUST PLAN

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DESIGN ENGINEERS CONSULTANT

DESIGNER	KJBL
DATE	6/1/01
SCALE	AS SHOWN
PROJECT	680.97
SHEET NO.	79 OF 106

M-05

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