Garage

• After Fire











CONCRETE REPAIR





















#### Anchor bolts and Holdown Testing Proof Load

¾-inch (19 mm) diameter bolt: 9,600lb (272 kg)





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#### Petrographic Analysis





### **Test Results**

- 1. Rebound Hammer (Estimated Compressive Strength)
  - Relatively uniform, within 15% of actual core strength.
- 2. Core Compressive Strength: 4,030 psi (28 MPa)
- 3. Pulse Velocity: No major internal void/cracking
- 4. Pull strength on bolts: Exceeded criteria
- **5.** Fire Damage: About 2-inches from the top and ¾-inch from the side
- **6. Microscopy**: No excessive Internal micro cracking and the aggregate to paste bond was good.



# **Repair Recommendations**

 Remove top 10-inches of concrete foundation stem wall and replace.
Replace damaged foundations & individual isolated footings.



## Savings

# Over \$150,000



### Fire Damage Evaluation Concrete Box Culvert Bridge



















#### Testing















