# ORANGE COUNTY FIRE AUTHORITY

<INSERT LOCATION MAP THAT INCLUDES MAJOR CROSS STREETS PROVIDING SITE ACCESS>



# NFPA 13D / 13R FIRE SPRINKLER SYSTEM

### **VICINITY MAP**

## PROJECT INFORMATION REQUIREMENTS

O NFPA 13D O NFPA 13R

MULTIPURPOSE PIPING SYSTEM

SINGLE FAMILY O SINGLE FAMILY NEW TRACT O MULTI FAMILY

NEW INSTALLATION NUMBER OF HEADS: O TENANT IMPROVEMENT NUMBER OF HEADS:

O HYDRAULIC CALCULATIONS

SPECIAL PROVISIONS FROM FIRE MASTER PLAN

NOTE: OCFA WILL ONLY REVIEW WORK OUTLINED IN SCOPE OF WORK

#### FLOW TEST INFORMATION WATER DISTRICT:

LOCATION:

**ELEVATION:** STATIC PRESSURE (PSI): FLOW (GPM):

#### FIRE SPRINKLER DESIGN DATA

METER SIZE: SPRINKLER HEAD SPACING

1 HEAD: 2 HEADS:

CEILING HEIGHT:

SPRINKLERED DECK (13R) CEILING BEAMS

### MINIMUM STATIC PRESSURE AT RISER GAUGE

NOTE: THE MINIMUM STATIC PRESSURE REQUIRED AT THE RISER GAUGE IS CALCULATED BY MULTIPLYING THE MINIMUM REQUIRED STREET (SOURCE) PRESSURE BY 1.1 (THE 10% SAFETY BUFFER) AND ADJUSTING FOR THE PRESSURE LOSS BETWEEN THE GAUGE ON THE RISER AND THE STREET (SOURCE) CONNECTION DUE TO ELEVATION.

PLAN NAME: PLAN NAME: PLAN NAME: PLAN NAME:

REQUIRED PRESSURE REQUIRED PRESSURE: REQUIRED PRESSURE

REQUIRED PRESSURE:

## OCFA STANDARD NFPA 13D SPRINKLER

- ONE SET OF OCFA APPROVED SPRINKLER PLANS WITH HYDRAULIC CALCULATIONS SHALL ALWAYS BE RETAINED AT THE JOB SITE.
- 2. THE SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH 2022 NFPA 13D AND AMENDMENTS AS ADOPTED BY THE LOCAL JURISDICTION.
- 3. UNDERGROUND MAINS AND LEAD-IN CONNECTIONS SHALL BE FLUSHED BEFORE CONNECTION IS MADE TO SPRINKLER PIPING.
- 4. THE WATER METER SHALL BE INSTALLED PRIOR TO FINAL
- 5. CALL OCFA INSPECTION SCHEDULING AT (714) 573-6150 TO SCHEDULE ALL INSPECTIONS AT LEAST 48 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A RE-INSPECTION
- 6. OCFA INSPECTION REQUIRED AT BOTH ROUGH AND FINAL PRIOR TO OCCUPANCY BEING
- 7. SYSTEMS SHALL BE TESTED AT A MINIMUM OF STREET PRESSURE IN ACCORDANCE WITH
- 3. EXPOSED EXTERIOR RISER VALVES SHALL BE PAINTED OSHA SAFETY RED. FIRE SPRINKLER OR SUPPLY PIPE EXPOSED OR SUSCEPTIBLE TO WET CONDITIONS SHALL BE PAINTED (ANY COLOR) OR OTHERWISE COATED TO INHIBIT CORROSION. STAINLESS STEEL ASSEMBLIÈS AND PIPING MAY BE LEFT UNPAINTED PROVIDED THAT ANY HOSE CONNECTIONS, VALVES, OR OTHER COMPONENTS OPERATED BY THE FIRE DEPARTMENT
- 9. SPRINKLERS IN SPACES SUBJECT TO TEMPERATURES IN EXCESS OF 100°F (INCLUDING GARAGES AND EXTERIOR CLOSETS) MUST BE INTERMEDIATE TEMPERATURE RATED (175°F OR MORE).
- 10. ALL SPRINKLER PIPING SHALL REMAIN UNCOVERED UNTIL INSPECTED BY OCFA. 11. AT ROUGH INSPECTION, PENDENT AND SIDEWALL SPRINKLER HEADS SHALL NOT BE
- INSTALLED IN PORTIONS OF SYSTEMS USING CPVC PIPE; ONLY PLUGS SHALL BE USED. 12. AT FINAL INSPECTION, ALL CEILINGS SHALL HAVE ALL PATCHES, REPAIRS, AND FINAL FINISHES COMPLETED. CONCEALED SPRINKLER COVER PLATES SHALL NOT BE INSTALLED
- REGARDLESS OF CEILING TYPE, BUT SHALL BE AVAILABLE ON-SITE FOR INSPECTION. 13. AN APPROVED METHOD OF DEMONSTRATING THE SYSTEM IS PRESSURIZED AT THE TIME OF ROUGH INSPECTION WILL BE PROVIDED.
- 14. A PRESSURE GAUGE SHALL BE PROVIDED ON THE RISER AT THE TIME OF FINAL INSPECTION TO VERIFY THE MINIMUM REQUIRED PRESSURE IS PRESENT.

# OCFA STANDARD NFPA 13R SPRINKLER

- ONE SET OF OCFA APPROVED SPRINKLER PLANS WITH HYDRAULIC CALCULATIONS SHALL BE RETAINED AT THE JOB SITE.
- THIS AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH 2022 NFPA 13R AND LOCAL AMENDMENTS ENFORCED BY
- 3. AT LEAST ONE WATER PRESSURE GAUGE SHALL BE INSTALLED ON THE RISER ASSEMBLY.
- 4. ALL VALVES SHALL HAVE PERMANENTLY AFFIXED SIGNS THAT DESIGNATE THEIR FUNCTION.
- 5. THE WATER FLOW SWITCH SHALL BE CONNECTED TO THE SERVICE PANEL ON AN UNINTERRUPTIBLE HOUSE CIRCUIT.
- 6. AT LEAST ONE BELL/ALARM SHALL BE LOCATED NEAR THE ADDRESS SIDE OR FRONT SIDE OF THE STRUCTURE AND SHALL BE LISTED FOR EXTERIOR USE.
- UNDERGROUND MAINS AND LEAD-IN CONNECTIONS SHALL BE FLUSHED BEFORE CONNECTION IS MADE TO SPRINKLER PIPING. FLUSH MUST BE WITNESSED BY AN APPROVED PARTY AND DOCUMENTATION PROVIDED TO THE OCFA INSPECTOR. 8. WATER METER SHALL BE IN PLACE PRIOR TO FINAL, IF APPLICABLE.
- CALL OCFA INSPECTION SCHEDULING AT (714) 573-6150 TO SCHEDULE ALL INSPECTIONS AT LEAST 48 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A RE-INSPECTION FEE. 10. OCFA INSPECTION REQUIRED AT BOTH ROUGH AND FINAL PRIOR TO OCCUPANCY BEING
- 11. ALL NEW SYSTEMS AND ADDITIONS OR MODIFICATIONS TO EXISTING PIPING AFFECTING MORE THAN 20 SPRINKLERS SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 200 PSI OR AT 50 PSI ABOVE THE SYSTEM OPERATING PRESSURE, WHICHEVER IS GREATER HYDRO TESTING ABOVE OPERATING PRESSURE IS NOT REQUIRED FOR RELOCATED DROPS 12. ALL FDCS, WALL PIVS, AND EXTERIOR/EXPOSED SPRINKLER RISER VALVES SHALL BE PAINTED OSHA SAFETY RED. OTHER FIRE SPRINKLER OR SUPPLY PIPE EXPOSED TO THE SKY OR SUSCEPTIBLE TO WET CONDITIONS SHALL BE PAINTED (ANY COLOR) OR OTHERWISE COATED TO INHIBIT CORROSION. STAINLESS STEEL ASSEMBLIES AND PIPING MAY BE LEFT UNPAINTED PROVIDED THAT ANY HOSE CONNECTIONS, VALVES, OR OTHER COMPONENTS OPERATED BY THE FIRE DEPARTMENT ARE PAINTED RED.
- 13. ALL SPRINKLER PIPING SHALL REMAIN UNCOVERED UNTIL INSPECTED BY OCFA. 14. AT ROUGH INSPECTION, PENDENT AND SIDEWALL SPRINKLER HEADS SHALL NOT BE INSTALLED IN PORTIONS OF SYSTEMS USING CPVC PIPE: ONLY PLUGS SHALL BE USED. 15. AT FINAL INSPECTION, ALL CEILINGS SHALL HAVE ALL PATCHES, REPAIRS, AND FINAL FINISHES COMPLETED. CONCEALED SPRINKLER COVER PLATES SHALL NOT BE INSTALLED REGARDLESS OF CEILING TYPE, BUT SHALL BE AVAILABLE ON—SITE FOR INSPECTION. 16. SPRINKLERS IN SPACES SUBJECT TO TEMPERATURES IN EXCESS OF 100°F (INCLUDING GARAGES AND EXTERIOR CLOSETS) MUST BE INTERMEDIATE TEMPERATURE RATED (175°F OR

# OCFA STAMP

2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS

APPLICABLE NFPA STANDARDS: O LOCALLY ADOPTED ORDINANCES:

O OCFA GUIDELINE

CONDITIONS OF APPROVAL

FIRE MASTER PLAN SR: RESIDENTIAL SITE PLAN SR:

O UNDERGROUND FIRE SUPPLY LINE

COPY OF ORIGINAL APPROVED PLAN REQUIRED TO BE SUBMITTED WITH ALL REVISED

REVISION SCOPE OF WORK

### PROJECT DIRECTORY

EMAIL:

CONTRACTOR BUSINESS NAME:. CONTACT NAME: ADDRESS:\_ CITY: STATE:\_\_\_ZIP:\_ PHONE: EMAIL:\_

PROPERTY OWNER BUSINESS NAME:. CONTACT NAME: \_ ADDRESS: \_STATE: \_\_\_\_ ZIP:\_\_ PHONE:

ERVICE REQUEST NUMBER

SHEET '