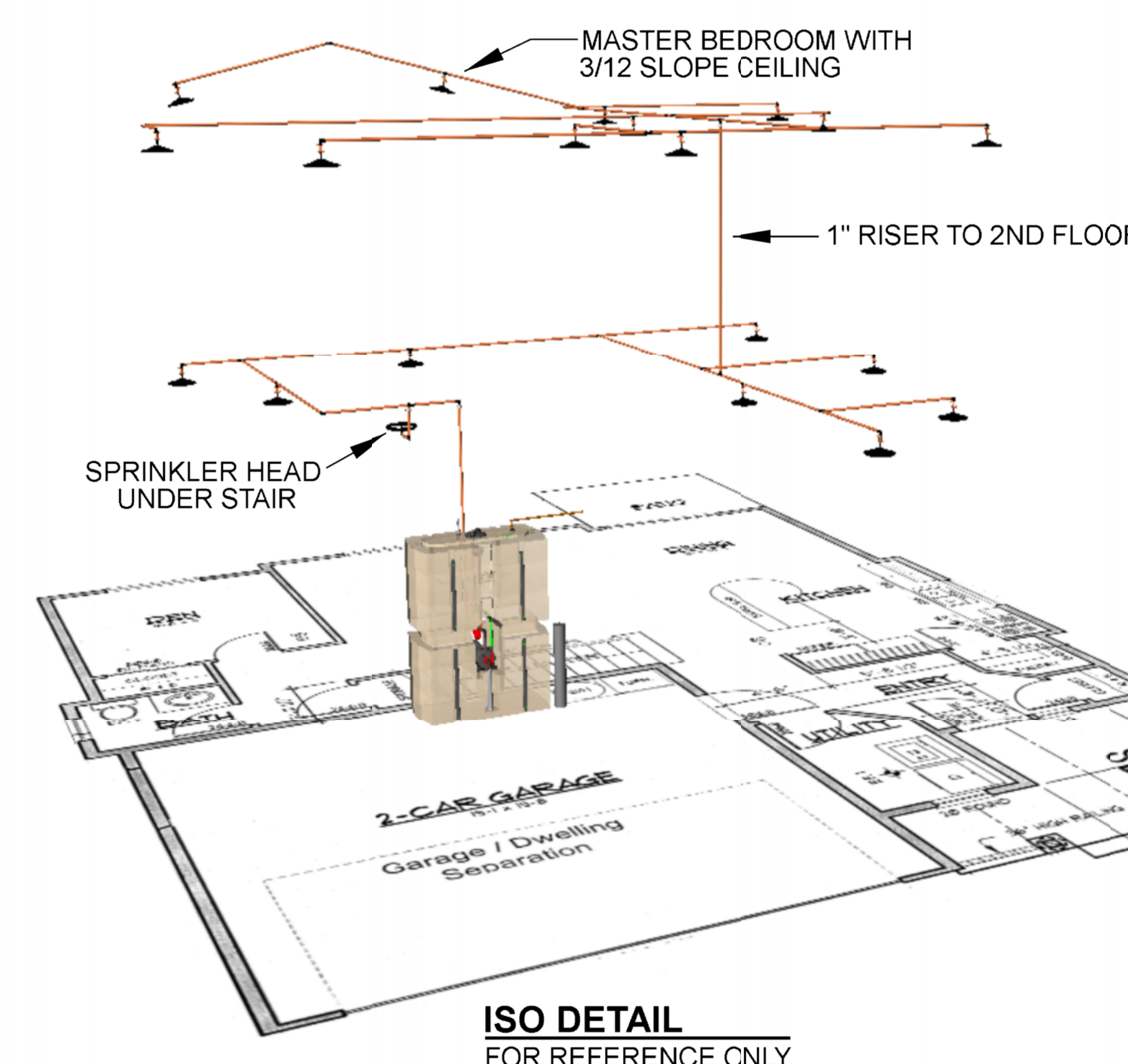


VICINITY MAP

CURE TIMES WITH ONE STEP SOLVENT CEMENT
200 psi (MAXIMUM) TEST PRESSURE

PIPE SIZE Inches	Ambient Temperature During Cure Period		
	60°F to 120°F	40°F to 59°F	0°F to 39°F
3/4"	45 min.	1.5 hr.	24 hr.
1"	45 min.	1.5 hr.	24 hr.
1 1/2"	1.5 hr.	16 hr.	120 hr.
1 3/4"	1.5 hr.	16 hr.	120 hr.
2"	6 hr.	36 hr.	See Note 1
2 1/2"	8 hr.	72 hr.	See Note 1
3"	8 hr.	72 hr.	See Note 1

Note 1 For these sizes, the solvent cement can be applied at temperatures below 32°F, however, the sprinkler system temperature must be raised to a temperature of 32°F or above and allowed to cure per the above recommendations prior to pressure testing.



RESIDENTIAL PUMP NOTE:

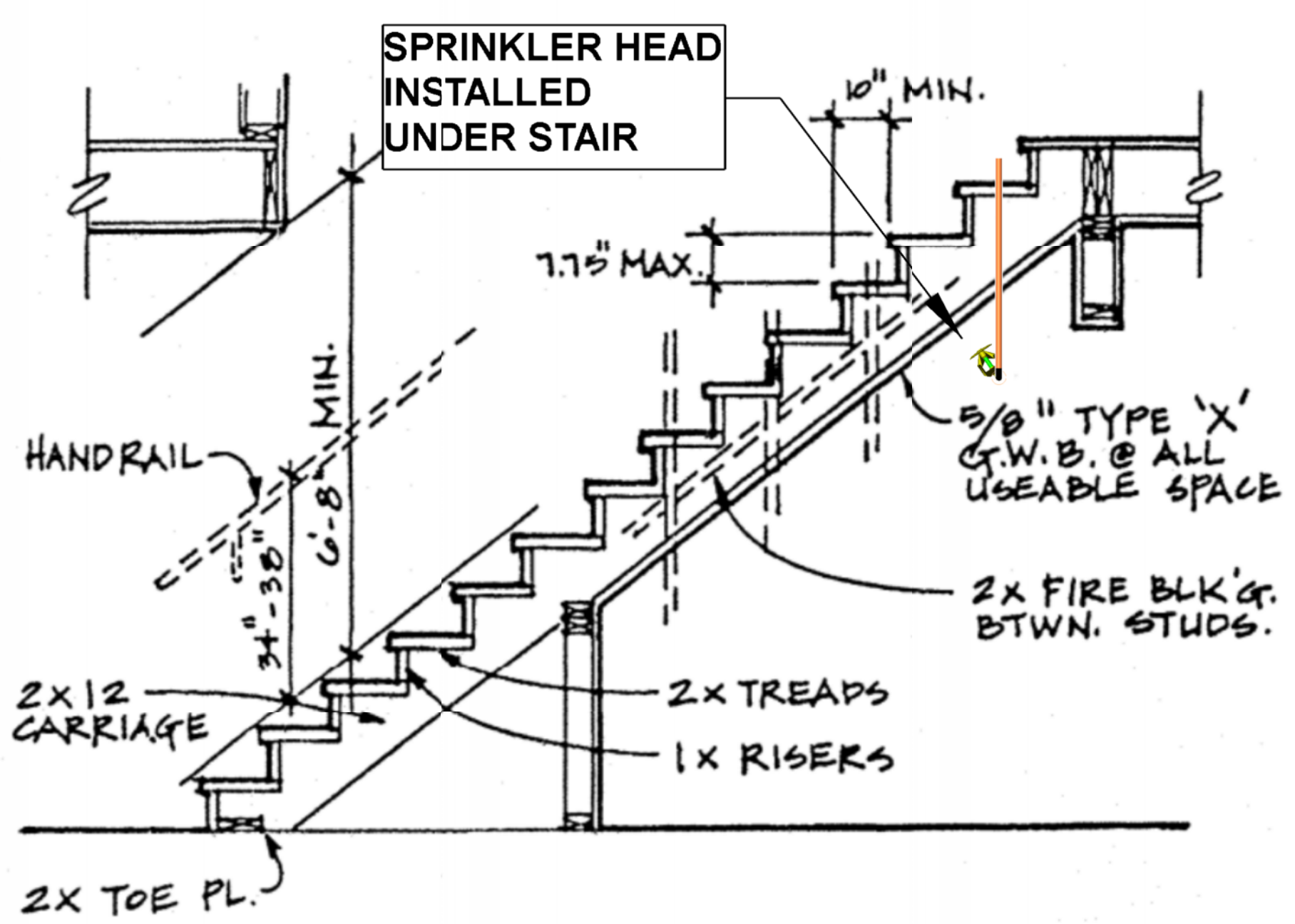
- NFPA 13D 2010
- 6.2.1 PRIOR TO SYSTEM ACCEPTANCE, A SYSTEM UTILIZING A PUMP SHALL BE TESTED BY OPENING THE DRAIN/TEST CONNECTION.
- 6.2.1.1 THE PUMP SHALL SENSE THE FLOW, TURN ON, AND FLOW WATER FOR THE REQUIRED DURATION OF 6.1.2 OR 6.1.3 WITHOUT INTERRUPTION.
- 6.2.2 WHERE A PUMP AND TANK IS THE SOURCE OF SUPPLY FOR A FIRE SPRINKLER SYSTEM BUT IS NOT A PORTION OF THE DOMESTIC WATER SYSTEM, THE FOLLOWING SHALL BE MET:
- (1) A TEST CONNECTION SHALL BE PROVIDED DOWNSTREAM OF THE PUMP THAT CREATES A FLOW OF WATER EQUAL TO THE SMALLEST SPRINKLER ON THE SYSTEM. THE CONNECTION SHALL RETURN WATER TO THE TANK.
 - (2) PUMP MOTORS USING AC POWER SHALL BE CONNECTED TO A 240 V NORMAL CIRCUIT.
 - (3) ANY DISCONNECTING MEANS FOR THE PUMP SHALL BE APPROVED.
 - (4) A METHOD FOR REFILLING THE TANK SHALL BE PIPED TO THE TANK.
 - (5) A METHOD OF SEEING THE WATER LEVEL IN THE TANK SHALL BE PROVIDED WITHOUT HAVING TO OPEN THE TANK.
 - (6) THE PUMP SHALL NOT BE PERMITTED TO SIT DIRECTLY ON THE FLOOR.

NFPA 13D INSPECTION & TESTING RECOMMENDATIONS:

- (1) MONTHLY INSPECTION OF ALL VALVES TO ENSURE THAT THEY ARE OPEN.
- (2) MONTHLY INSPECTION OF TANKS, IF PRESENT, TO CONFIRM THEY ARE FULL.
- (3) MONTHLY TESTING OF PUMPS, IF PRESENT, TO MAKE SURE THEY OPERATE PROPERLY AND DO NOT TRIP CIRCUIT BREAKERS WHEN STARTING.
- (4) TESTING OF ALL WATER FLOW DEVICES, WHEN PROVIDED, EVERY 6 MONTHS INCLUDING MONITORING SERVICE (NOTE THAT NOTIFICATION OF THE MONITORING SERVICE IS ESSENTIAL TO MAKE SURE THAT THE FIRE DEPARTMENT IS NOT CALLED DUE TO TESTING).
- (5) ONGOING VISUAL INSPECTION OF ALL SPRINKLERS TO MAKE SURE THEY ARE NOT OBSTRUCTED AND DECORATIONS ARE NOT ATTACHED OR HUNG FROM THEM.
- (6) WHENEVER PAINTING OR HOME IMPROVEMENTS ARE MADE IN THE DWELLING UNIT, SPECIAL ATTENTION SHOULD BE PAID TO ENSURE THAT SPRINKLERS ARE NOT PAINTED OR OBSTRUCTED EITHER AT THE TIME OF INSTALLATION OR DURING SUBSEQUENT REDECORATION. WHEN PAINTING IS OCCURRING IN THE VICINITY OF SPRINKLERS, THE SPRINKLERS SHOULD BE PROTECTED BY COVERING THEM WITH A BAG, WHICH SHOULD BE REMOVED IMMEDIATELY AFTER PAINTING IS FINISHED.

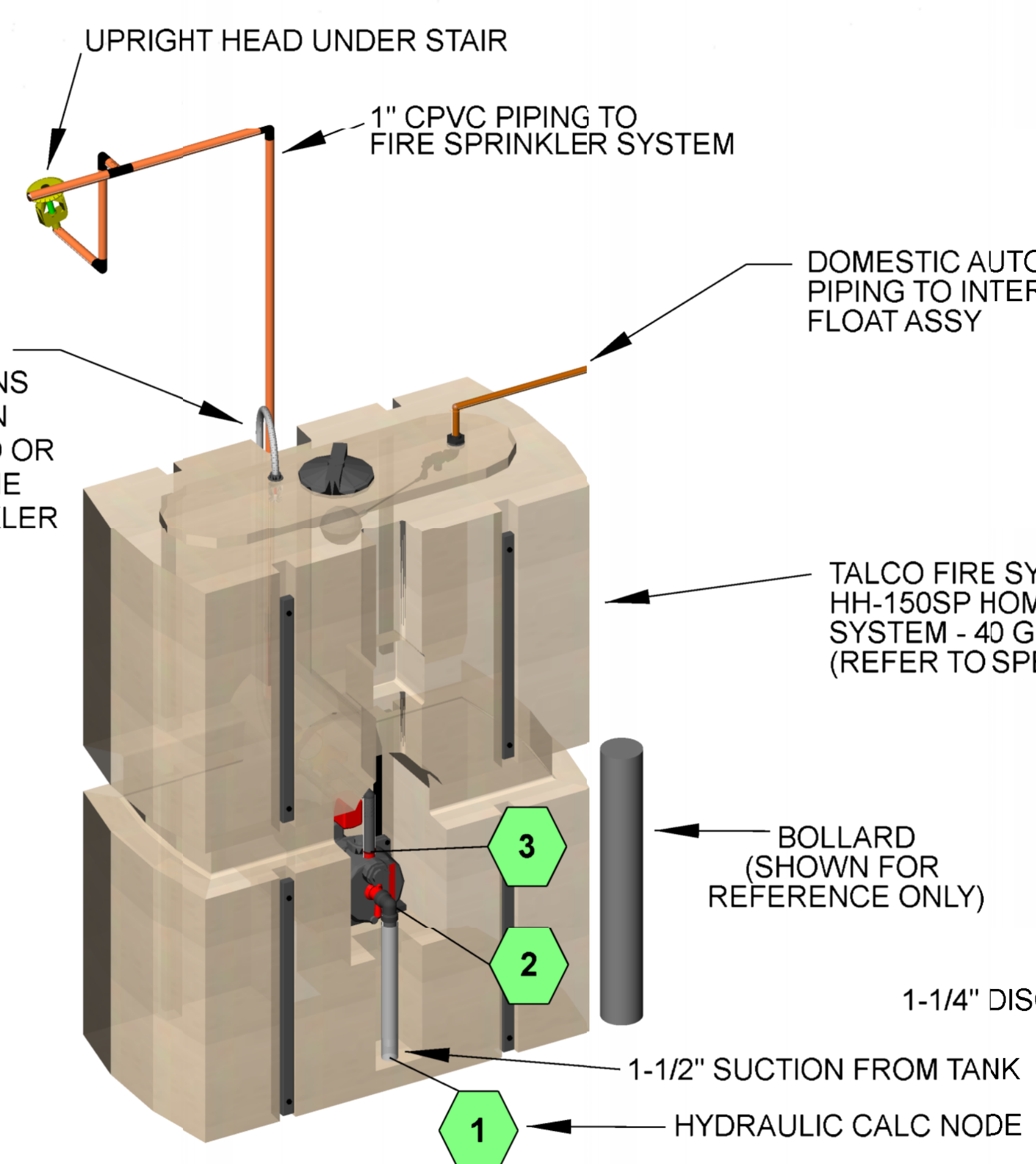
6" 120V ELECTRIC BELL
(1 EXTERIOR) WIRED TO FLOW SWITCH AND INTERCONNECTED TO SOUND ALARM APPLIANCES THROUGHOUT THE DWELLING WHERE A FIRE WARNING SYSTEM IS REQUIRED. PER NFPA 72 2-2.1.1.3

Scale: 1/2" = 1'-0"



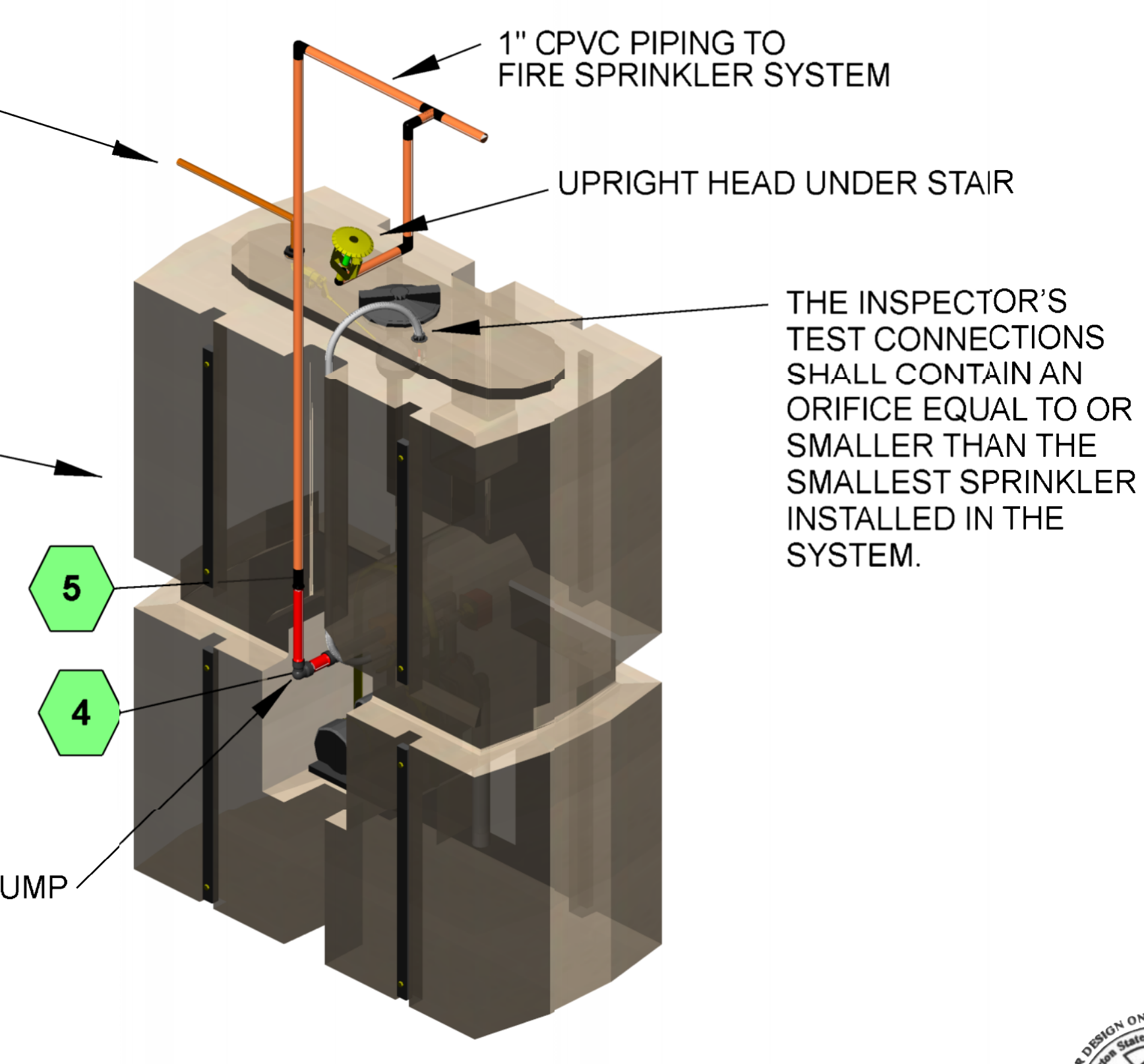
STAIR CONSTRUCTION DETAIL A

Scale: 1/2" = 1'-0"



TANK & PUMP DETAIL - FRONT ISO VIEW

FOR REFERENCE ONLY



TANK & PUMP DETAIL - BACK ISO VIEW

FOR REFERENCE ONLY

Standard Symbols		Standard Symbols		Standard Sprinkler Symbols		GENERAL SYSTEM NOTES	
	Post Indicator Valve		Alarm Check Valve		Upright on 1/2" Outlet	1. HYDRANT INFORMATION TO BE PROVIDED ON SPRINKLER SIZES.	
	Key Operated Valve		Thrust Block		Pendant on 1/2" Outlet	2. (SEE HYDRANT) TO BE PROVIDED PER NFPA 13.	
	Public Hydrant		Backflow Preventer		Upright on 1" Sprig	3. ALL NUMBERS TO BE CURRENT NFPA REQUIREMENTS UNLESS NOTED OTHERWISE.	
	Fire Dept. Connection				Pendant below ceiling on 1" Drop	4. LINE PIPING SHALL BE 1/2\"/>	
	O.S.&Y. Gate Valve				Upright above Pendant on 1" Sprig	5. WARE PIPING SHALL BE 1/2\"/>	
	Check Valve				Sidelwall on 1/2" Outlet	6. SYSTEM DESIGN SHALL BE PER NFPA 13.	
	New Underground				Sidelwall on 1" Sprig	7. OTHER TO PROVIDE MATERIAL, WELDING, AND FITTINGS.	
	Existing Underground					8. HYDRANT CITY CONNECTION SHALL BE KNOWN, SIZES, AND SYSTEM MONITORING, U.S.A.	

NOTICE		Revisions		Date	Fire Sprinkler Designs By:	AHJ STAMP	Contractor:
IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE HEAT ADEQUATE TO PREVENT FREEZING THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS, AND ALSO IN ENCLOSURES FOR DRY PIPE, DELUGE AND OTHER TYPES OF VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS.					3D FIRE DESIGN, LLC Garold W. Ebeling, C.E.T. NICET LEVEL III #10830 2855 S. Bayou Bar Way Meridian, ID 83642 (208) 559-2557 garold@3dfiredesign.com www.3dfiredesign.com		King County Homes PO Box 1512 Maple Valley, WA 98038
UNDERGROUND AND OVERHEAD TESTS TO BE WITNESSED BY:							Job No: 29252
CONTRACT WITH:							Date: 10/09/11
ADDRESS:							Designer: Garold Ebeling
PHONE NUMBER:							Approved:
FAX:							Scale: AS NOTED
							License No.: Lake Morton Home 29252 188th Ave SE Kent, WA 98042
							DETAIL PLAN
							2 OF 2