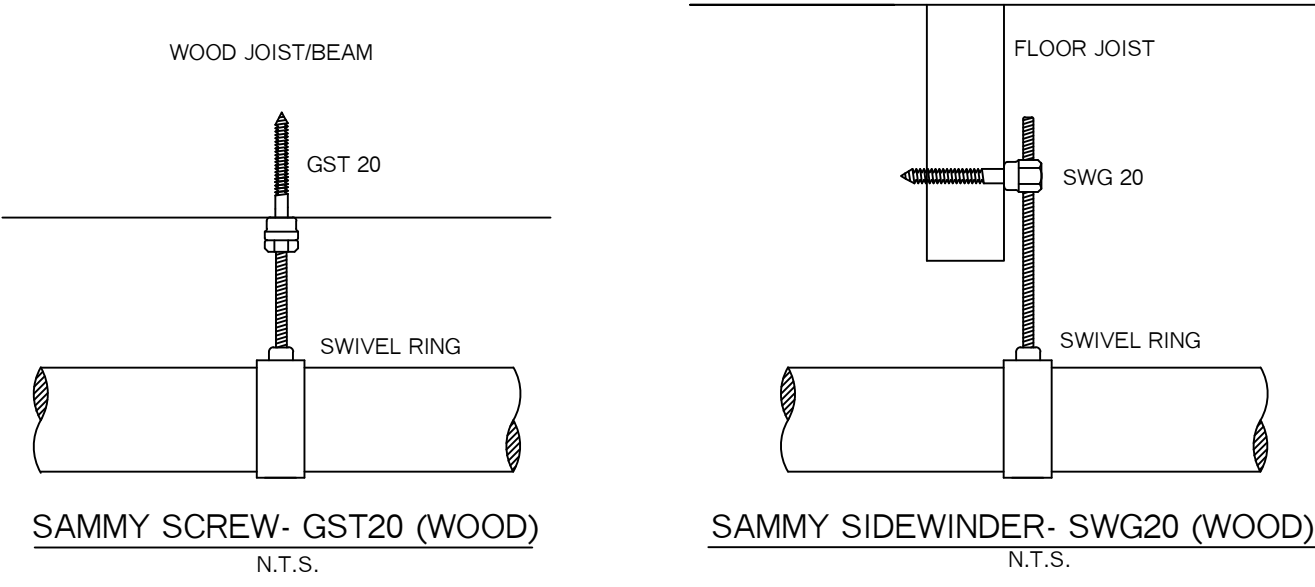


**SECOND FLOOR PLAN (UNIT #2)**  
SCALE: 1/4" = 1'-0"  
TOTAL AREA= 1,800 SF  
FLR ELEV: 110.25'

SPRINKLER HEAD INFORMATION, FOR THIS FLOOR ONLY

QTY	SIZE	ORIFICE	K-FACTOR	DESCRIPTION	MODEL	TEMP	ESCUITCHEON	SYMBOL
12	1/2"	7/16"	4.0	VIKING RES. WHITE HOR. SIDEWALL	VK486	155	RECESSED	◀
5	1/2"	7/16"	4.9	VIKING RES. WHITE CONCEALED PENDENT	VK468	155	CONCEALED	●

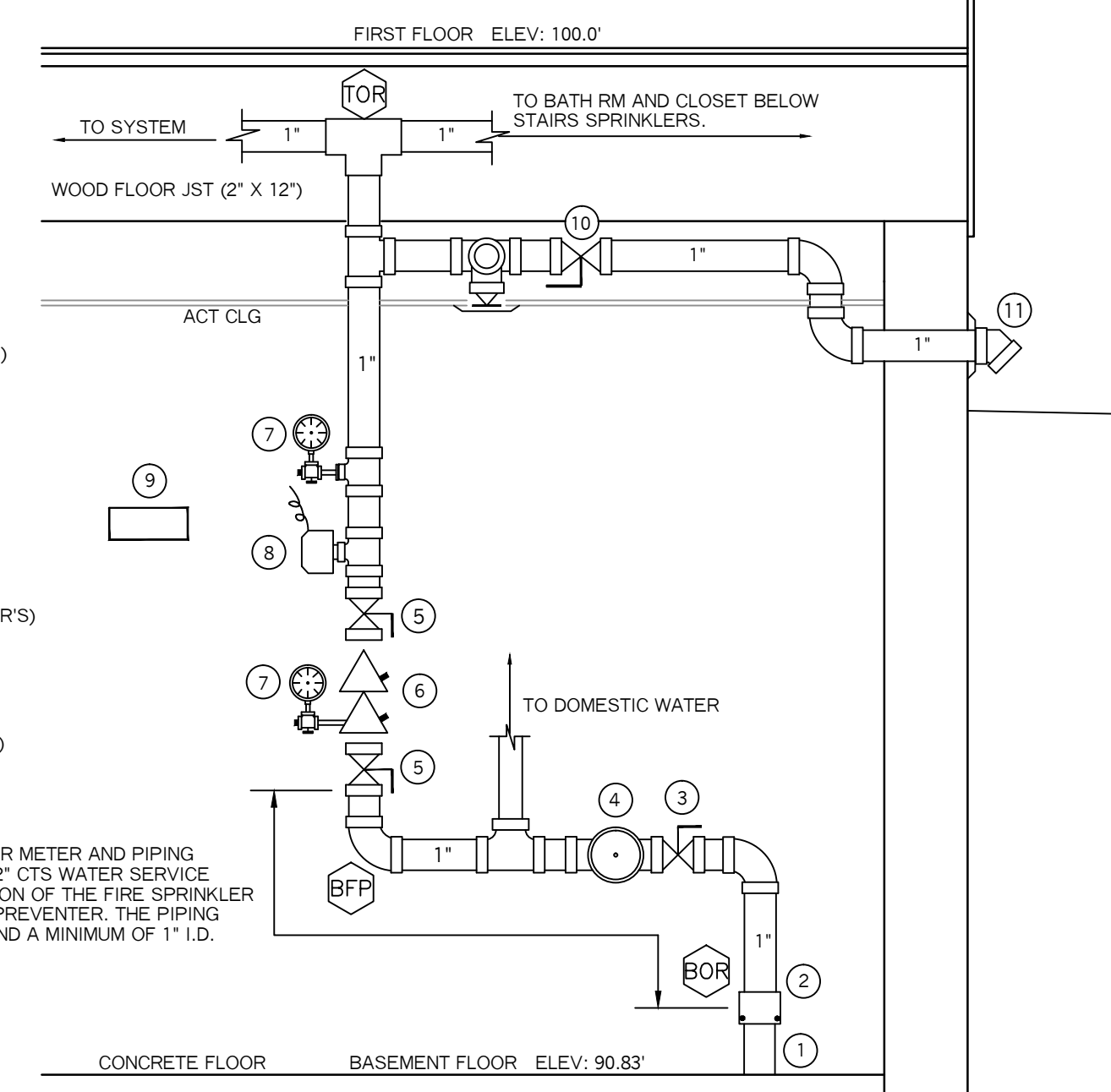
TOTAL HD'S= 17



**VALVE RISER LEGEND**

- 1 1 1/2" PLASTIC "CTS" WATER SERVICE SPIGOT (BY OTHERS)
- 2 1 1/2" FORD ADAPTOR (BY OTHERS)
- 3 1" CONTROL VALVE, SEALED OPEN (N.O.) (BY OTHERS)
- 4 1" WATER METER (BY OTHERS)
- 5 1" SHUT-OFF VALVE, SEALED OPEN (N.O.)
- 6 1" DOUBLE CHECK BACKFLOW PREVENTER
- 7 WATER PRESSURE GAUGE (3.5" DIA.)
- 8 POTTER VS-SP FLOW SWITCH, VANE TYPE (WIRED BY OTHERS) CONNECT TO HOME ALARM SYSTEM
- 9 SPARE HEAD BOX (6) SPRKS AND WRENCH
- 10 1" BALL VALVE, MAIN DRAIN (N.C.)
- 11 1" GALV. 45 ELBOW W/ GALV. GRINNELL PLATE (MAIN DRAIN)

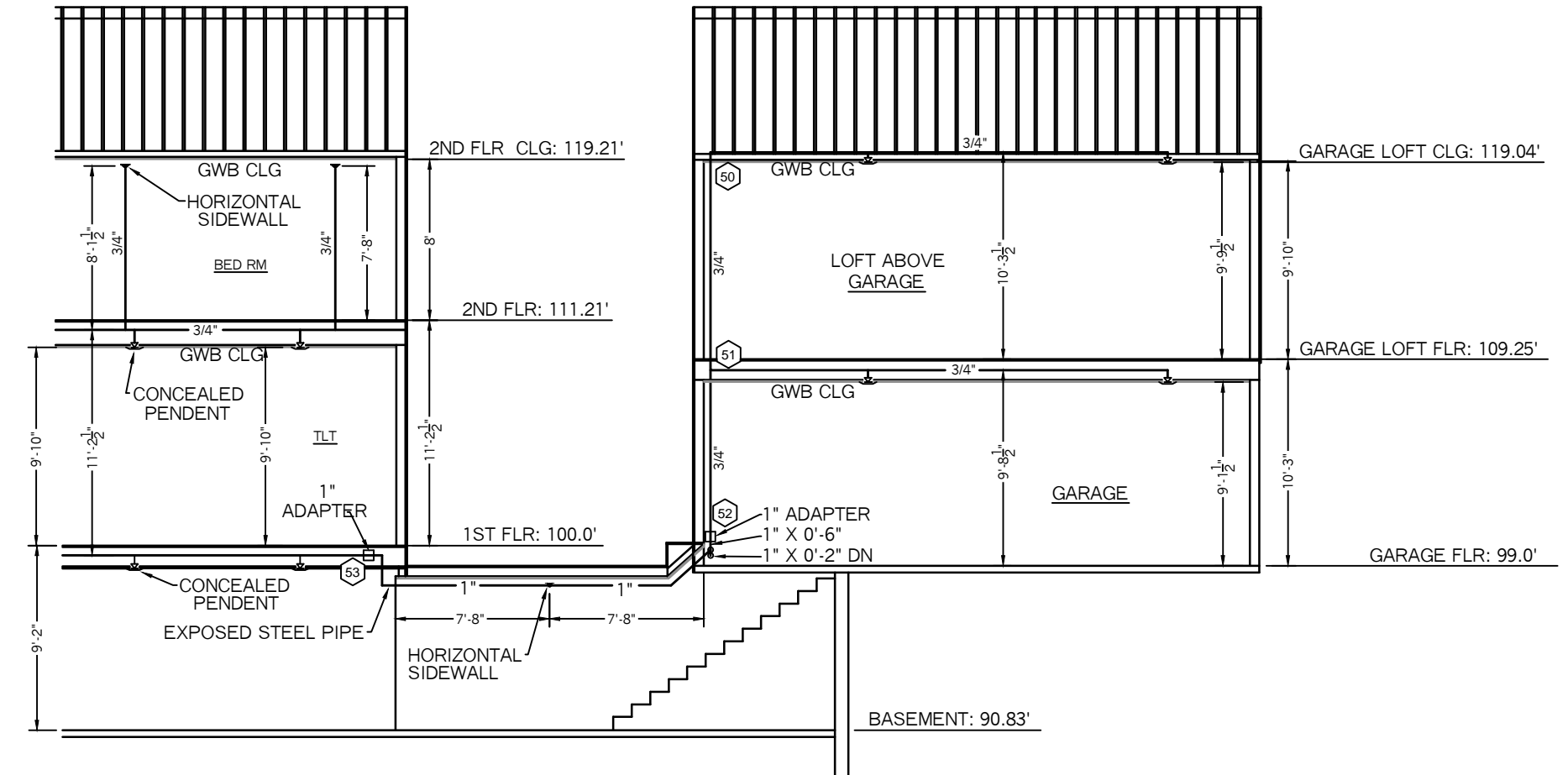
NOTE: PLUMBER TO PROVIDE WATER METER AND PIPING TO CONNECT FROM THE 1 1/2" CTS WATER SERVICE TO THE 1" INTAKE CONNECTION OF THE FIRE SPRINKLER DOUBLE CHECK BACKFLOW PREVENTER. THE PIPING IS TO BE NON-CORROSIVE AND A MINIMUM OF 1" I.D.



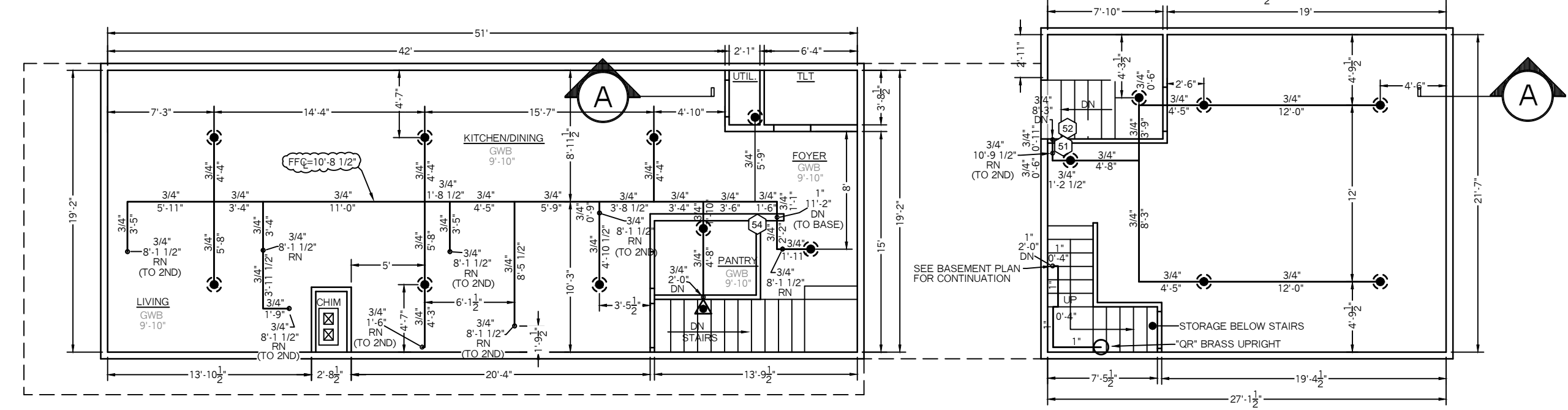
**VALVE RISER DETAIL**  
N.T.S.

**SYSTEM GENERAL NOTES:**

- A NEW WET PIPE SYSTEM OF AUTOMATIC SPRINKLERS DESIGNED, INSTALLED AND TESTED PER NFPA 13D (2016 EDITION)
- NEW 1 1/2" CTS PLASTIC SPRINKLER WATER LINE TO BE INSTALLED, TESTED AND FLUSHED BY OTHERS IN ACCORDANCE WITH NFPA 24 AND LOCAL CODES.
- PLUMBER TO CONNECT FIRE SPRINKLER BACKFLOW PREVENTER TO THE WATER SERVICE WITH NON-CORROSIVE PIPE (1" MINIMUM I.D.) AND A WATER METER IS TO BE INSTALLED BEFORE THE BFP.
- 1" SHOT-GUN VALVE RISER WITH A DOUBLE CHECK BACKFLOW.
- EXPOSED LINE PIPING IN THE BASEMENT TO BE SCHEDULE 40 BLACK STEEL WITH THREADED C.I. FITTINGS AND BRASS UPRIGHT HEADS ON LINE.
- CVPC BLAZEMASTERS PLASTIC PIPE AND FITTINGS TO BE INSTALLED IN ALL AREA'S EXCEPT EXPOSED PIPE IN THE BASEMENT.
- WHITE CONCEALED RESIDENTIAL PENDENT SPRINKLERS WILL BE INSTALLED IN THE CEILINGS AND WHITE RECESSED RESIDENTIAL SIDEWALL SPRINKLERS WILL BE INSTALLED ON THE WALLS THROUGHOUT HOUSE.



**BUILDING SECTION A-A**  
SCALE: 1/4" = 1'-0"

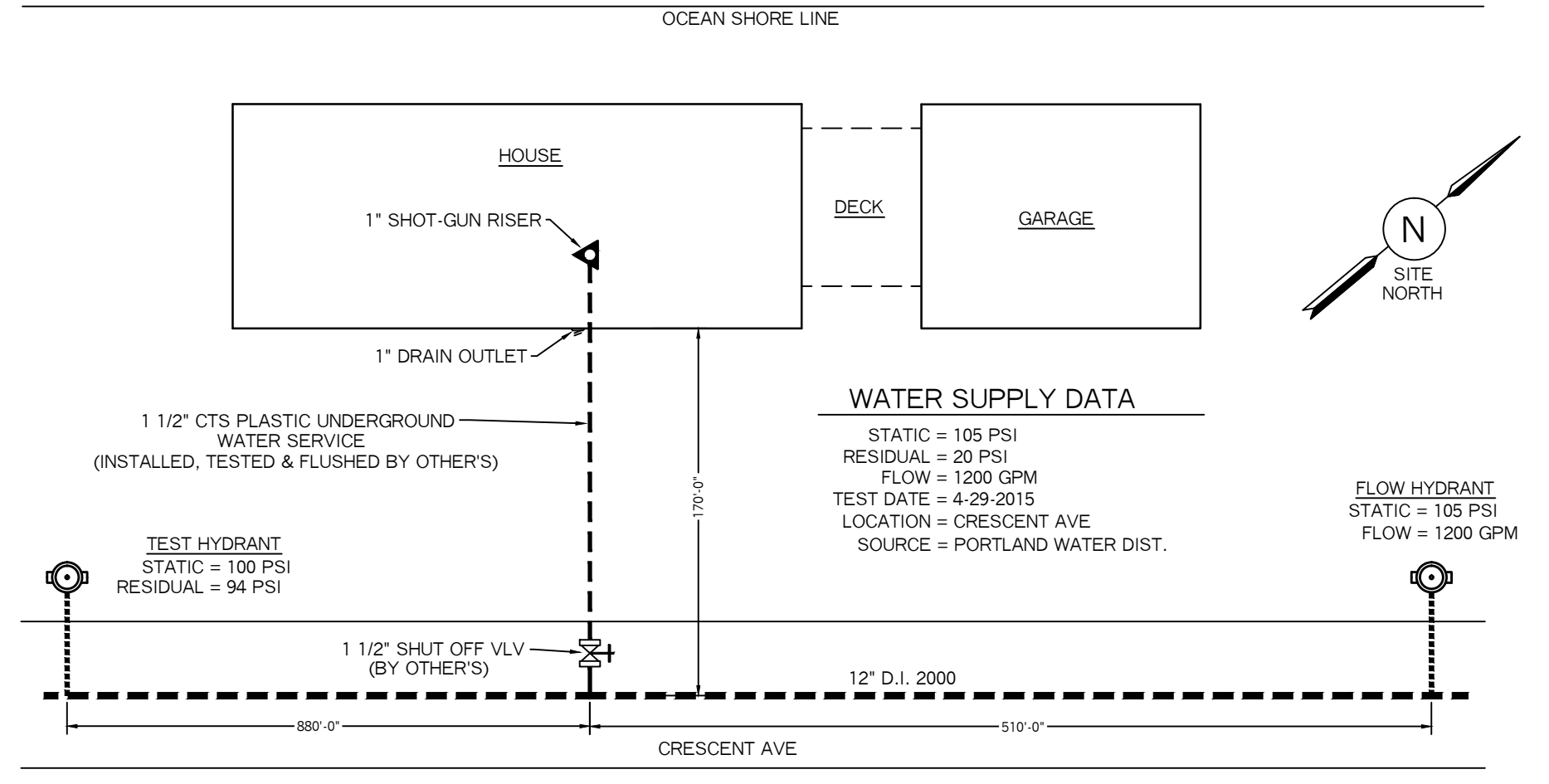


**FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
TOTAL AREA= 1,563 SF  
FLR ELEV: 100.0'

SPRINKLER HEAD INFORMATION, FOR THIS FLOOR ONLY

QTY	SIZE	ORIFICE	K-FACTOR	DESCRIPTION	MODEL	TEMP	ESCUITCHEON	SYMBOL
1	1/2"	7/16"	4.0	VIKING RES. WHITE HOR. SIDEWALL	VK486	155	RECESSED	◀
15	1/2"	7/16"	4.9	VIKING RES. WHITE CONCEALED PENDENT	VK468	155	CONCEALED	●
1	1/2"	1/2"	5.6	VIKING BRASS UPRIGHT	VK300	155	NONE	○

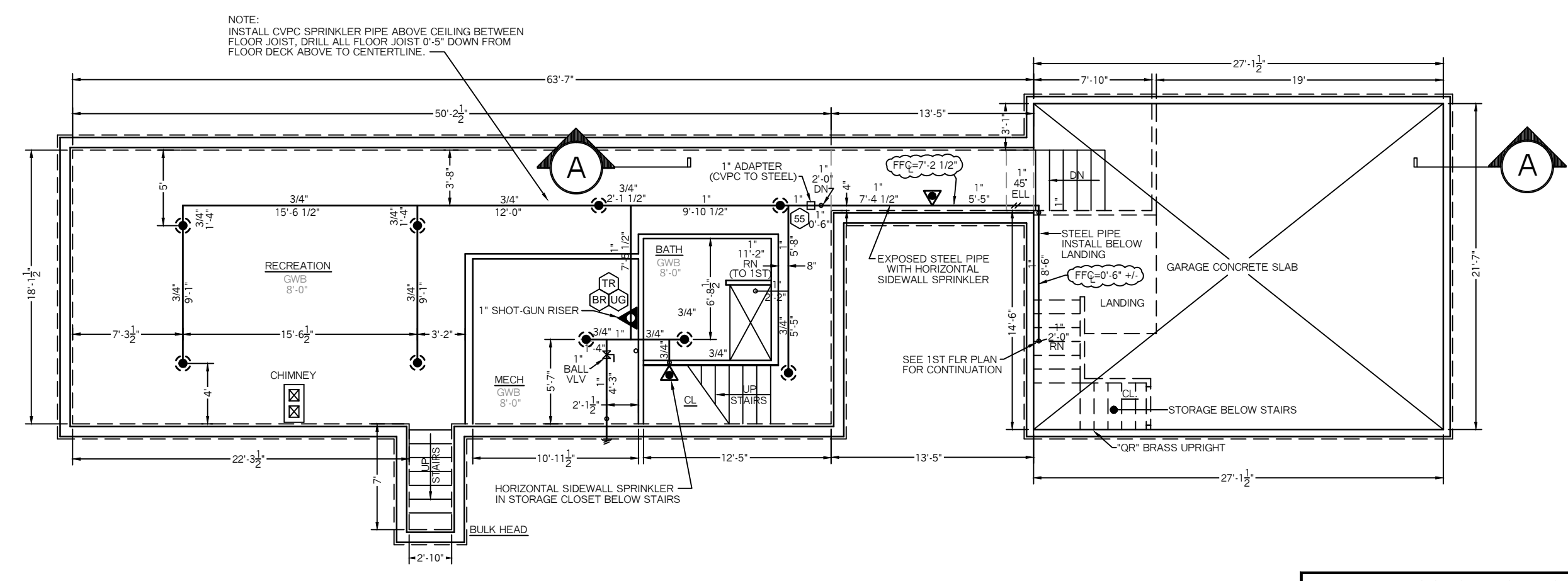
TOTAL HD'S= 17



**PLOT / SITE PLAN**  
SCALE: NTS

**NFPA 13D NOTES:**

- SPRINKLERS SHALL BE INSTALLED IN ALL AREA'S EXCEPT THE FOLLOWING:
- 1.) BATHROOM'S WHERE THE AREA IS 55 SF OR LESS.
- 2.) CLOTHES CLOSET'S, LINEN CLOSET'S AND PANTRIES THAT MEET THE FOLLOWING CONDITIONS:
  - THE AREA OF THE SPACE DOES NOT EXCEED 24 SF
  - THE LEAST DIMENSION DOES NOT EXCEED 3'-0"
  - THE WALLS AND CEILINGS ARE SURFACED WITH NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS.
- \* SPRINKLERS SHALL BE INSTALLED IN ANY CLOSET USED FOR HEATING OR AIR CONDITIONING EQUIPMENT
- 3.) GARAGES, OPEN ATTACHED PORCHES, CARPORTS, AND SIMILAR STRUCTURES.
- 4.) ATTICS, PENTHOUSES, EQUIPMENT ROOMS, ELEVATOR MACHINE ROOMS, CONCEALED SPACES DEDICATED EXCLUSIVELY TO AND CONTAINING ONLY DWELLING UNIT VENTILATION EQUIPMENT, CRAWL SPACES, FLOOR/CEILING SPACES, ELEVATOR SHAFTS AND OTHER CONCEALED SPACES THAT ARE NOT USED OR INTENDED FOR LIVING PURPOSES OR STORAGE AND DO NOT CONTAIN FUEL FEED EQUIPMENT
- 5.) CLOSETS ON EXTERIOR BALCONIES, REGARDLESS OF SIZE, AS LONG AS THERE ARE NO DOORS OR UNPROTECTED PENETRATIONS FROM THE CLOSET DIRECTLY INTO THE DWELLING UNIT.



**BASEMENT PLAN**  
SCALE: 1/4" = 1'-0"  
TOTAL AREA= 964 SF  
FLR ELEV: 90.83'

SPRINKLER HEAD INFORMATION, FOR THIS FLOOR ONLY

QTY	SIZE	ORIFICE	K-FACTOR	DESCRIPTION	MODEL	TEMP	ESCUITCHEON	SYMBOL
2	1/2"	7/16"	4.0	VIKING RES. WHITE HOR. SIDEWALL	VK486	155	RECESSED	◀
9	1/2"	7/16"	4.9	VIKING RES. WHITE CONCEALED PENDENT	VK468	155	CONCEALED	●

TOTAL HD'S= 11

HYDRAULIC CALCULATION INFORMATION:			
LOCATION:	GARAGE LOFT (AREA #1)		
BASIS OF DESIGN:	NFPA 13D, 2016 EDITION:	DENSITY:	AREA OF COVERAGE:
	.0508		2 MOST REMOTE HEADS
OCCUPANCY:	RESIDENTIAL		
SPRINKLERS:	TOTAL	THRD	ORIFICE TEMP
	2	1/2"	7/16" 155
SYSTEM DEMAND AT BASE OF RISER (BOR):	PRESSURE	FLOW	HOSE
	78.76 PSI	26.62 GPM	0
SAFETY MARGIN:	26.17 PSI		

HYDRAULIC CALCULATION INFORMATION:			
LOCATION:	2ND FLR HOUSE (AREA #2)		
BASIS OF DESIGN:	NFPA 13D, 2016 EDITION:	DENSITY:	AREA OF COVERAGE:
	.0508		2 MOST REMOTE HEADS
OCCUPANCY:	RESIDENTIAL		
SPRINKLERS:	TOTAL	THRD	ORIFICE TEMP
	2	1/2"	7/16" 155
SYSTEM DEMAND AT BASE OF RISER (BOR):	PRESSURE	FLOW	HOSE
	75.27 PSI	26.05 GPM	0
SAFETY MARGIN:	29.66 PSI		

**SYSTEM SYMBOL LEGEND:**

- ▲ = WET SHOT-GUN RISER
- = HYDRANT
- = HYDRAULIC CALCULATION REFERENCE POINT
- N.O. = NORMALLY OPEN
- N.C. = NORMALLY CLOSED

PROJECT NAME: <b>LUEDKE RESIDENCE</b> CRESCENT AVENUE GREAT DIAMOND ISLAND PORTLAND, ME. 04101	FIRE SPRINKLER PLANS AND DETAILS REQUIRED APPROVALS: STATE FIRE MARSHALS OFFICE LOCAL FIRE DEPARTMENT OWNER	RESIDENTIAL FIRE PROTECTION, LLC DATE: 4-11-2017 SCALE: 1/4" = 1'-0"
CONTRACT WITH: <b>CALEB JOHNSON ARCHITECTS + BUILDERS</b> 265 MAIN STREET, SUITE 201 BIDDEFORD, ME. 04005 PH: (207) 283-8777	DRAWN BY: TPP NICET III CERTIFICATION # 100854 CHECKED BY: SJC NICET III (100854) CERTIFICATION # 78065 CONTRACTOR LICENSE #511 CONTRACTOR RMS #80	DATE: 4-11-2017 SCALE: 1/4" = 1'-0" CONTRACT NO. C17010 DRAWING NO. 1 OF 1
<b>RESIDENTIAL FIRE PROTECTION</b> 64 DAGGETT HILL ROAD, GREENE, MAINE 04236 PH: (207) 946-3473 FAX: (207) 946-3474		