FIRE PROTECTION SYMBOLS

- FP-D — FIRE PROTECTION DRY
- FP-O — FIRE PROTECTION OTHER
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET
- FP-DOM-W — COMBINATION FIRE & DOMESTIC
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- SEMI-RECESSED PENDANT
- UPRIGHT WITH GUARD
- 'D' REPRESENTS DRY SPRINKLER HEAD
- D — SIDEWALL SPRINKLER HEAD
- EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- TS — TAMPER SWITCH
- FS — FLOW SWITCH
- 48"/18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FDV	FIRE DEPARTMENT VALVE	RL/A	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FPM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	EWH	ELECTRIC WATER HEATER
ACC	AIR COOLED CONDENSER	FCU	FAN COIL UNIT
ACCU	AIR COOLING CONDENSING UNIT	FP	FIRE PUMP
AHU	AIR HANDLING UNIT	GI	GREASE INTERCEPTOR
AS	AIR SEPARATOR	GRV	GRAVITY ROOF VENTILATOR
B	BOILER	HWP	HEATING WATER PUMP
CH	CHILLER	HX	HEAT EXCHANGER
CT	COOLING TOWER	HRU	HEAT RECOVERY UNIT
CUH	CABINET UNIT HEATER	PRV	POWER ROOF VENTILATOR
CWP	CONDENSER WATER PUMP	RE	RETURN/EXHAUST FAN
CHWP	CHILLED WATER PUMP	RTU	ROOFTOP UNIT
DBP	DOMESTIC WATER BOOSTER PUMP	SEP	SEWAGE EJECTOR PUMP
DC	DUCT MOUNTED COIL	SF	SUPPLY FAN
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER
ET	EXPANSION TANK		

GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET
- NUMBER OF SHEET WHERE DETAIL APPEARS
- CODED NOTE
- CONTINUATION SYMBOL
- Room 1 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -10' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

FIRE PROTECTION DESIGN DOCUMENTS

DESIGN AND FINAL DOCUMENTS ARE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. THIS DOCUMENT HAS BEEN CREATED TO ASSIST THE FIRE PROTECTION CONTRACTORS IN DEFINING SCOPE AND IDENTIFYING ELEMENTS OF THE BUILDING. THE FIRE PROTECTION CONTRACTOR AND THE CERTIFIED DESIGN PROFESSIONAL ARE RESPONSIBLE TO DESIGN THE SYSTEM, OBTAIN PERMITS / INSPECTIONS AND PROVIDE A COMPLETE SYSTEM.

SPRINKLER HEAD LOCATION NOTES

1. ALL LOCATIONS INDICATED ARE TO BE MAINTAINED WITHIN PLUS OR MINUS 1/2" AND ALIGNED WITH ADJACENT HEADS FOR A UNIFORM, EVEN APPEARANCE OF COMPLETED INSTALLATION. POSITIONS INDICATED APPLY TO FULL SIZE SMOOTH SURFACE TILES, AS WELL AS FULL SIZE SUB-GRIDDED (SCORED OR GRAPHICALLY DIVIDED) SURFACE TILES. THE APPEARANCE OF THE FINISHED CEILING TILE FACE AS INSTALLED OVERRIDES THE ACTUAL PHYSICAL DIMENSIONS OF THE TILE FOR PLACEMENTS INDICATED HEREIN. VERIFY CEILING TILE TYPES FROM ARCHITECTURAL DOCUMENTATION.
2. PENDANT SPRINKLER HEADS TO BE INSTALLED WITH DEFLECTORS AT SAME ELEVATION AS ADJACENT SPRINKLERS IN SAME AREA/ENCLOSURE, PLUS OR MINUS 1/4". RECESSED HEADS TO BE INSTALLED SO DEFLECTOR IS A MAXIMUM OF 1 " BELOW THE ELEVATION OF THE CEILING PLANE. CONCEALED HEADS TO BE INSTALLED WITH COVERS FLUSH TO CEILING PLANE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLATION OF ALL SPRINKLER HEADS TO BE COORDINATED WITH STRUCTURE AND WORK OF OTHER TRADES, VERIFIED IN ADVANCE BY THE FIRE PROTECTION CONTRACTOR.

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

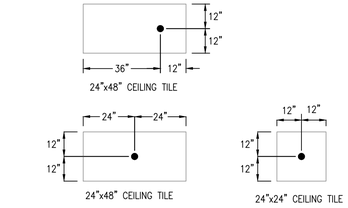
FIRE PROTECTION NOTES

1. ALL FIRE PROTECTION CONTRACT WORK IS TO COMPLY WITH THE APPLICABLE NFPA STANDARDS REFERENCED IN THE BUILDING CODE (IBC) AS ADMINISTERED BY THE LOCAL REVIEW/INSPECTION/APPROVAL AUTHORITIES, THE INSURANCE UNDERWRITER'S (FM, IRI, ISO, ETC.) GUIDELINES, THE LOCAL FIRE PREVENTION AUTHORITY, AND ANY OTHER AUTHORITIES HAVING JURISDICTION, AS CONFIRMED AND VERIFIED IN ADVANCE BY THE LICENSED FIRE PROTECTION CONTRACTOR.
2. THE BUILDING IS TO BE FULLY PROTECTED PER NFPA-13.
3. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND SIZED ACCORDING TO NFPA, THE APPLICABLE BUILDING CODE, AND THE INSURER'S GUIDELINES, RULES AND REGULATIONS. SPECIFIC AREAS DESIGNATED ON THE DRAWINGS SHALL MAINTAIN FLOWS AND DENSITIES.

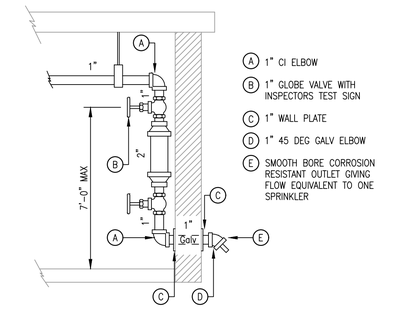
   LIGHT HAZARD OCCUPANCY = .10 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1,500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 225 SQUARE FEET PER HEAD.

   ORDINARY HAZARD OCCUPANCY = .15 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1,500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 130 SQUARE FEET PER HEAD.
4. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE FIRE PROTECTION CONTRACT NOT SPECIFICALLY INTENDED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.
5. FIRE PROTECTION CONTRACTOR SHALL SIZE ALL SPRINKLER SYSTEM PIPING WITH THE EXCEPTION OF PIPING SIZES INDICATED ON THESE PLANS AT SPECIFIC LOCATIONS.
6. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL ADDITIONAL PIPING, EQUIPMENT AND ACCESSORIES WHETHER SHOWN ON DRAWINGS OR NOT, WHICH IS REQUIRED TO PROVIDE COMPLETE SPRINKLER AND OTHER FIRE PROTECTION SYSTEMS FOR THE BUILDING.
7. FIRE PROTECTION CONTRACTOR TO LOCATE AND INSTALL ALL SPRINKLER HEADS IN LAY-IN CEILINGS PER DETAILS INCLUDED WITH THESE DRAWINGS.
8. COORDINATE ALL SPRINKLER DROPS FOR HEAD LOCATION WITH CEILING GRIDS, STRUCTURE AND WORK IN OTHER CONTRACTS IN SAME AREA. VERIFY LOCATION OF ALL ITEMS FROM ARCHITECTURAL AND OTHER CONTRACT PLANS INCLUDED WITH COMPLETE CONSTRUCTION DOCUMENTS.
9. FIRE PROTECTION CONTRACTOR TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT JOB BEFORE PROCEEDING WITH FABRICATION OF WORK.
10. UNLESS SPECIFICALLY INDICATED OTHERWISE, DRAINS ASSOCIATED WITH WORK/EQUIPMENT INCLUDED IN THE FIRE PROTECTION CONTRACT ARE TO BE EXTENDED FULL SIZE TO LOCATIONS SUBJECT TO APPROVAL DURING REVIEW OF REQUIRED LAYOUT PLANS. APPROPRIATE DRAIN DISCHARGE POINTS ARE AS FOLLOWS, LISTED IN ORDER OF PREFERENCE:

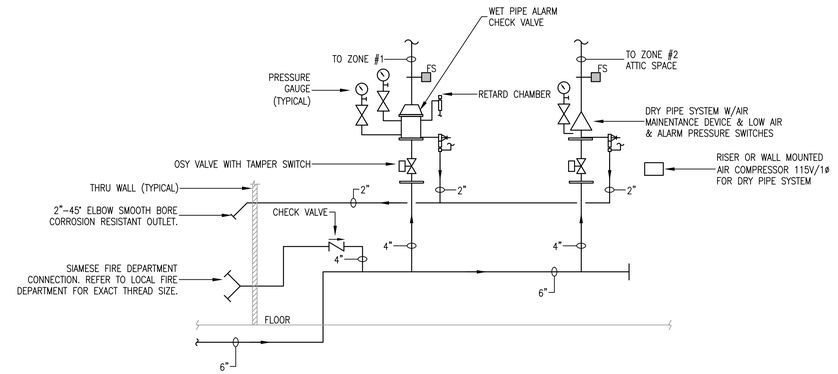
    A. BUILDING EXTERIOR, WITH CHROME FINISHED 45-DEGREE OUTLET AND WALL FLANGE, AND SPLASHBLOCK AT GRADE/SURFACE IN RESTRICTED ACCESS AREAS (DISCHARGE NOT PERMITTED IN PEDESTRIAN OR PUBLIC ACCESS AREAS, INCLUDING ADJACENT SPACES/AREAS THAT COULD RECEIVE OVERSPRAY/OVERFLOW FROM SUCH DRAINS).
11. ALL DRAINS THAT DISCHARGE TO GRADE ARE TO BE FURNISHED WITH A SPLASHBLOCK OF APPROPRIATE SIZE AND CONFIGURATION, LOCATED TO RECEIVE ALL FLOW FROM OUTLET(S), UNLESS DIRECTED OTHERWISE.
12. PROVIDE INSPECTOR'S TEST CONNECTION ASSEMBLIES AS REQUIRED AND ANY ADDITIONAL TEST ASSEMBLIES AS REQUIRED BY INSPECTION/APPROVAL AUTHORITIES. ASSEMBLIES TO COMPLY WITH THE REQUIREMENTS OF NFPA-13 AND THE BUILDING CODE. COORDINATE LOCATION AND INSTALLATION WITH THE ARCHITECT AND WORK OF OTHER TRADES.
13. FIRE PROTECTION CONTRACTOR TO PROVIDE ADDITIONAL SPRINKLER HEADS BELOW DUCTS OR EQUIPMENT IN EXCESS OF 4 FEET WIDE OR WHERE MULTIPLE DUCTS AND/OR EQUIPMENT INSTALLATIONS OBSTRUCT AN AREA IN EXCESS OF 4 FEET WIDE IN MECHANICAL ROOMS OR OTHER AREAS WITH EXPOSED STRUCTURE AND UPRIGHT HEADS.
14. NO FIRE PROTECTION PIPING IS TO BE RUN THROUGH OR ABOVE ELECTRICAL SWITCHGEAR ROOMS, ELECTRICAL UTILITY CLOSETS/ROOMS, TELEPHONE/COMMUNICATIONS CLOSETS/ROOMS, AND/OR DATA PROCESSING STORAGE ROOMS EXCEPT PIPING SUPPLYING PROTECTION FOR THAT SPECIFIC AREA.
15. ALL VALVES CAPABLE OF INTERRUPTING FIRE PROTECTION SYSTEM FLOWS SHALL BE PROVIDED WITH A TAMPER SWITCH.
16. ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED WHEREVER POSSIBLE.
17. ALL PIPING SHOWN IS ABOVE CEILING IN AREAS WITH DROPPED CEILINGS OR AT BOTTOM OF SUPPORT STRUCTURE FOR FLOOR OR ROOF ABOVE IN EXPOSED STRUCTURE AREAS, UNLESS NOTED OTHERWISE.
18. PROVIDE SPRINKLERS AS REQUIRED AT SOFFITS, PARTIAL HEIGHT PARTITIONS, AND ANY OTHER SPECIFIC ARCHITECTURAL/STRUCTURAL CONDITIONS AND/OR FEATURES AFFECTING SPRINKLER COVERAGE. VERIFY CONDITIONS FROM ARCHITECTURAL DRAWINGS.
19. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL FIRE PROTECTION RELATED PENETRATIONS OF FIRE AND SMOKE-RATED FLOORS, WALLS, AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
20. WHEN CONTROLLED TEMPERATURE ENCLOSURES (COOLERS, FREEZERS AND OTHER AREAS/ENCLOSURES WITH MONITORED/MAINTAINED CONDITIONS) ARE PROVIDED UNDER SEPARATE CONTRACT, PROVIDE DRY PIPE BARREL SPRINKLERS FOR PROTECTION IN/AT ENCLOSURE. SPRINKLERS MAY BE PENDANT OR SIDEWALL TYPE AS APPLICABLE FOR SPECIFIC CONDITIONS. RECOMMENDED INSTALLATION TO BE CONFIRMED WITH THE ENCLOSURE INSTALLER, AND COMPLIED WITH BY THE FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE ENCLOSURE AT ALL PENETRATIONS REQUIRED FOR INSTALLATION OF WORK IN HIS CONTRACT.
21. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING ARCHITECTURAL PROJECT DOCUMENTATION FOR ITEMS AFFECTING FIRE PROTECTION WORK, INCLUDING SPECIFIC DIRECTIONS AND ITEMS OF A GENERAL NATURE, WHICH MAY NOT BE REFERRED TO BY THE FIRE PROTECTION DOCUMENTATION. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLER REQUIREMENTS TO MAINTAIN RATED SEPARATION STRUCTURES (WALLS, WINDOWS, GLASS PARTITIONS/DOORS, ETC.) OR AT PROTECTION FEATURES SUCH AS DRAFTSTOPS AND OTHER STRUCTURAL ELEMENTS.
22. WHERE PIPING RUNS EXPOSED IN FINISH AREAS, CONFIRM PAINTING/FINISH REQUIREMENTS FOR ALL ELEMENTS WITH THE ARCHITECT IN ADVANCE OF WORK. VERIFY ALL CONDITIONS FROM ARCHITECTURAL DOCUMENTATION AND INSTALL FIRE PROTECTION WORK TO ALIGN WITH AND/OR BE CONCEALED BY STRUCTURE WHENEVER POSSIBLE. FINAL LOCATION OF FIRE PROTECTION ELEMENTS SUBJECT TO APPROVAL DURING PRELIMINARY REVIEW SPECIFIED, PRIOR TO SUBMITTAL TO AUTHORITIES FOR FINAL APPROVAL.



1 SPRINKLER HEAD LOCATION DETAIL
Scale: NTS



2 INSPECTORS TEST CONNECTION
NTS



3 SPRINKLER RISER DIAGRAM
NTS

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DATE:
PRICING SET:
03/11/24

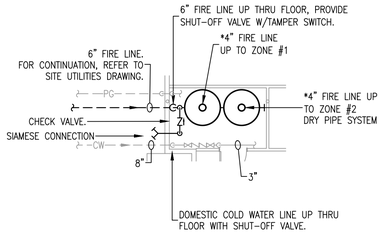
NEW 90 BED SKILLED NURSING FACILITY
SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONETA, FRANKLIN COUNTY, VIRGINIA

PRELIMINARY
NOT FOR CONSTRUCTION

DSCA PROJECT NO.
23.046

FP1.0

2024-03-11 - 1/8" = 1'-0"



1 ENLARGED WATER ROOM PLAN

Scale: 1/4"=1'-0"

* EXACT RISER SIZE TO BE DETERMINED PER HYDRAULIC CALCULATIONS BY THE FIRE PROTECTION CONTRACTOR.

FIRE PROTECTION FLOOR PLAN

SCALE: 1/16" = 1'-0"

NORTH

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DATE:
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FP1.1

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