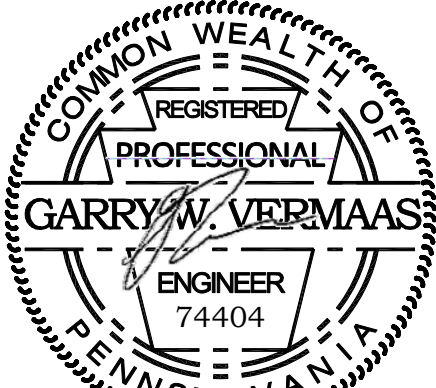




BASE4

BASE4
3858 GLADES ROAD, #31
BOCA RATON, FLORIDA 33434
1.720.725.4544 www.base-4.com

SEAL



GARRY VERMAAS, PH.D., PE
3011 KILGUS
9011 EDGEWATER BEND
PARKLAND, FLORIDA, 33076



ISSUE:

Issued for Permit
08.05.2016

PROJECT: 16-018

Hampton Inn & Suites

New Stanton, PA 15672

OWNER:

Stanton Hospitality LLC

52 Blueberry Lane,
Grove City, PA 16127

No.	Issue Date	Project Status

DATE 2016.08.05

DRAWN BY JP

CHECKED BY GWV

SCALE AS NOTED

PROJECT NO. B4-67-1603

SHEET NAME

GENERAL NOTES,
LEGENDS &
ABBREVIATION

SHEET NO.

FP001

GENERAL NOTES

- THE SPRINKLER CONTRACTOR SHALL PROVIDE COMPLETE HYDRAULIC CALCULATIONS, PIPE SIZING, PIPE MATERIAL WITH LAY-OUT DWGS & CONSTRUCTION LAY-OUT DWGS.
- ALL SPRINKLER HEADS SERVING, ELECTRIC, TELEPHONE, SWITCHGEAR & ELEVATOR MACHINE ROOMS SHALL BE PROVIDED BY SHUT-OFF VALVES W/ TAMPER SWITCHES.
- THE FIRE PROTECTION SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN COMPLIANCE WITH NFPA AND THE MOST RECENT STATE BUILDING CODE AND FIRE CODES, AS WELL AS ANY APPLICABLE STATE STATUTES.
- SPRINKLER SYSTEM TO BE INSTALLED BY A STATE CERTIFIED FIRE PROTECTION CONTRACTOR.
- CONTRACTOR SHALL COORDINATE WITH STRUCTURE, CEILING GRID AND ELEVATION, AND OTHER MECHANICAL AND ELECTRICAL SERVICES BEFORE FABRICATING AND INSTALLING SPRINKLER HEADS & PIPING. MAKE OFFSETS IN PIPING AS REQUIRED PER FIELD CONDITIONS. MAINTAIN 6" CLEARANCE BETWEEN PIPING AND 1 AND 2 HOUR RATED WALLS INCLUDING CORRIDOR WALLS.
- ALL VALVES SHALL BE BY DOMESTIC MANUFACTURER, U.L. LISTED FOR FIRE PROTECTION SERVICE AND RATED FOR 175 PSI WORKING PRESSURE. PROVIDE (U.L. LISTED) FM APPROVED TAMPER SWITCHES AT CONTROL VALVE LOCATIONS. PROVIDE (U.L. LISTED) FM APPROVED FLOW SWITCHES, WHERE SHOWN, AT CONTROL VALVE LOCATIONS.
- SPRINKLER HEADS SHALL BE LISTED AS INDICATED IN SCHEDULE AND RATED FOR 175 PSI WORKING PRESSURE. PROVIDE HEAD GUARDS ON UPRIGHT AND PENDANT SPRINKLER HEADS LOCATED IN ELEVATOR SHAFTS, MECHANICAL SHAFTS, ELECTRICAL, TELEPHONE, MECHANICAL AND MACHINE ROOMS. CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF NFPA 25.
- CONTRACTOR SHALL PROVIDE FLUSHING CONNECTIONS WHERE SHOWN ON PLANS. PROVIDE A DRAIN CONNECTION FOR ALL TRAPPED SECTION OF PIPING.
- INSPECTORS TEST, DRAIN AND SHUT-OFF VALVES SHALL BE LOCATED AT MAXIMUM OF 7'-0" AFF.
- ALL SPRINKLER HEADS SHALL BE CENTERED AND PRESENTED IN A NEAT AND BALANCED CEILING PATTERN. FP CONTRACTOR TO COORDINATE WITH ARCHITECT AND INTERIOR DESIGNER.
- PIPING TO BE BLACK STEEL IN AIR CONDITIONED SPACES. PIPING IN NON-AIR CONDITIONED SPACE SHALL BE BLACK STEEL SCHEDULE 40 (PAINTED) WITH AN ALTERNATE FOR GALVANIZED SCHEDULE 40. GROOVED FITTINGS ARE NOT ALLOWED WHERE PRESSURE EXCEEDS 175 PSI.
- SPRINKLER HEADS TO BE MODEL GBR SERIES SPRINKLER WHITE PLATED SEMI-RECESSED TYPE FOR SIDE WALL AND FOR CEILING LOCATIONS. BRASS UPRIGHT FOR EXPOSED LOCATIONS, RECESSED TYPE FOR FIRST FLOOR LOBBY AREAS. TEFLON FINISHED HEADS TO BE USED IN NON-AIR CONDITIONED AREAS.
- SPRINKLER HEADS SHOULD BE PROVIDED ON FIRE RATED WALLS WHERE THERE ARE INTERIOR ALUMINUM WINDOWS. SPRINKLER HEADS SHOULD ALSO BE PROVIDED INSIDE OF LAUNDRY CHUTES.
- SPRINKLER SUBCONTRACTOR TO PROVIDE ALL REQUIRED STANDPIPES AND FIRE HOSE VALVES, FLOW AND TAMPER SWITCHES, PRESSURE REDUCING VALVES AT ALL FLOORS, SIAMASE CONNECTIONS, INSPECTOR TEST STATIONS, SPARE SPRINKLER HEAD CABINET, ALL NECESSARY DRAINS AND SIGNAGE.
- FIRE PUMP AND CONTROLLER SHALL BE SIZED ACCORDING TO HYDRAULIC CALCULATIONS AND FLOW TEST. IF FIRE PUMP IS REQUIRED, FP CONTRACTOR SHALL SUBMIT FIRE PUMP SHOP DRAWINGS TO EOR FOR REVIEW. ALL ASSOCIATED ACCESSORIES INCLUDING JOCKEY PUMP AND CONTROLLER, PUMP BYPASS, AND NECESSARY VALVING SHALL MEET LOCAL CODES AND NFPA STANDARDS. PROVIDE REMOTE ANNUNCIATOR AT FIRE COMMAND ROOM AND REMOTE ALARM AT SECURITY DESK.
- ALL EXPOSED FIRE ALARM PIECES (STROBES, SPEAKERS, PULL STATIONS) TO BE WHITE IN COLOR WHERE POSSIBLE. FP CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND INTERIOR DESIGNER.
- FIRE CONTRACTOR MUST PROVIDE LANDLORD AND TENANT WITH A COPY OF NFPA 25.
- FP SUBCONTRACTOR SHALL CONNECT TO SITE UTILITY SOURCE AND PROVIDE ALTERNATIVE FOR POST INDICATOR VALVE (PIV). SUCTION SIDE PIPING SHALL BE DUCTILE IRON.
- SPRINKLER HEAD INSTALLATION SHOULD BE PLACED SO HEADS ARE LOCATED AT SIDE SPACE OR PIPED ABOVE MAIN LINE TO PREVENT SEDIMENT FROM CLOGGING THE HEADS.
- HIGH HEAT HEADS WHERE REQUIRED.
- FIRE PUMP AND PIPING DESIGNED FOR RECYCLING DURING EXERCISE CYCLE.
- THE STRUCTURAL ENGINEER SHALL INCLUDE THE LOAD FOR THE SPRINKLER SYSTEM AND OTHER FIRE PROTECTION COMPONENTS INTO THE DESIGN OF THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
- SPRINKLER DESIGN TO COMPLY WITH BRAND STANDARDS FOR HOTEL PROJECTS.
- EACH FLOOR SHOULD BE DESIGNED AS A SEPARATE ZONE.
- SEE ARCH DRAWINGS FOR EXTINGUISHER CABINET LOCATION.
- CONCEALED OR RECESSED SPRINKLER HEADS SHALL BE USED IN ALL PUBLIC AREAS INCLUDING REST ROOMS.
- THE FP DRAWINGS INCLUDED IN THIS DESIGN DRAWING SET ARE SPECIFICATIONS ONLY.
- THE FIRE PROTECTION SYSTEM NEEDS TO BE DESIGNED BY PROFESSIONAL ENGINEERS IN THE STATE THAT THE PROJECT IS LOCATED IN.
- THE DESIGN DRAWINGS MUST BE SIGNED AND SEALED BY THIS PE AND THEY NEED TO BE SUBMITTED FOR THE REVIEW OF BASE-4.
- CONTRACTOR TO FOLLOW THE NFPA STANDARD FOR FIRE PROTECTION REQUIREMENTS.
- ALL QUALITY AND PERFORMANCE SPECIFICATIONS FOR THE FIRE PROTECTION COMPONENTS ARE PROVIDED IN THE NOTES ON THIS SHEET.
- OWNER SHALL SUBMIT THE OWNERS INFORMATION CERTIFICATE TO CITY.

DRAWING INDEX

FP001	GENERAL NOTES, LEGENDS & ABBREVIATION
FP101	FIRST FLOOR SPECIFICATION PLAN
FP102	SECOND FLOOR SPECIFICATION PLAN
FP103	THIRD & FOURTH FLOOR SPECIFICATION PLAN

LEGEND

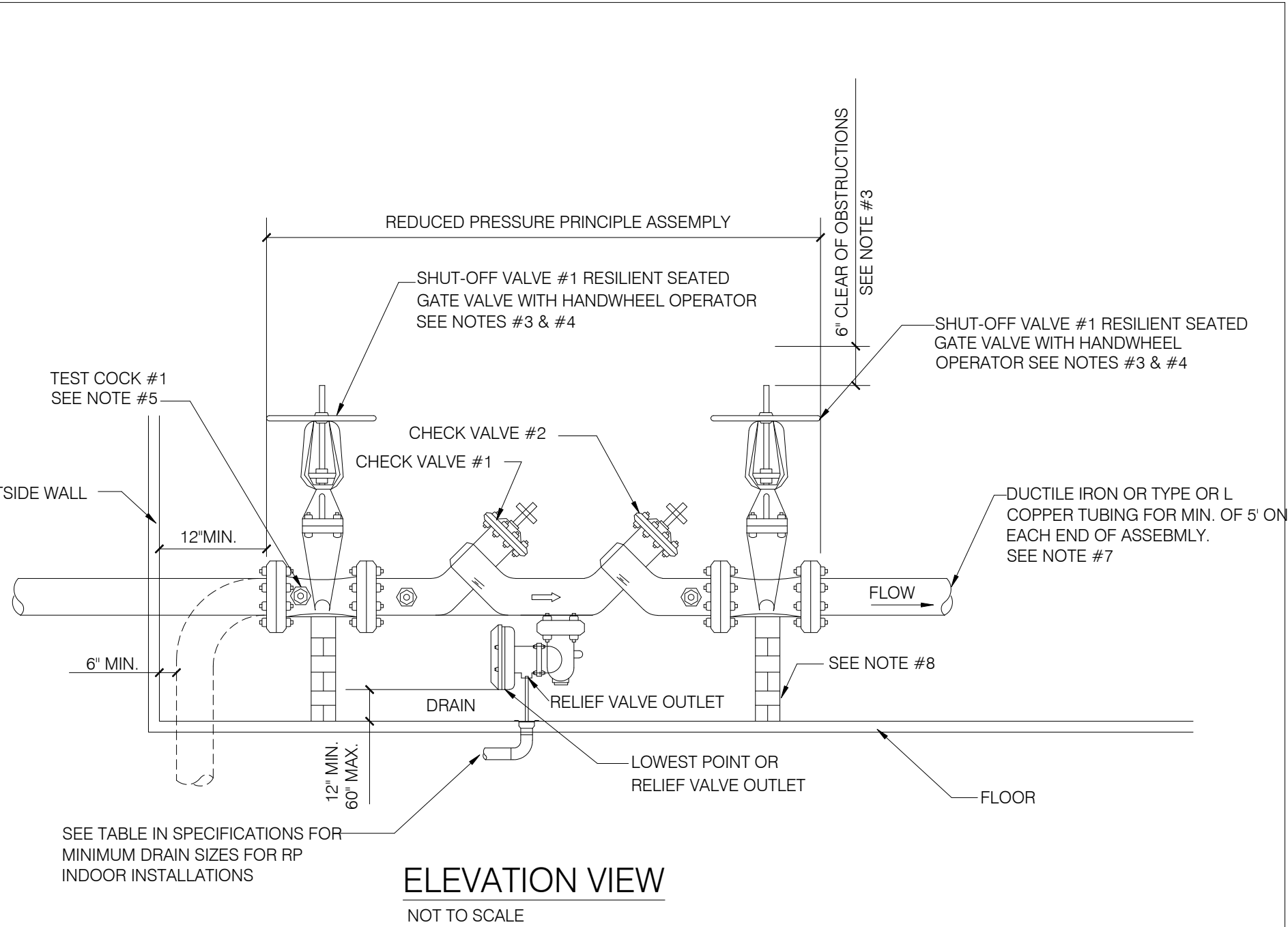
SYMBOL	DESCRIPTION
	SPRINKLER HEAD
	FLOW SWITCH
	FIRE DEPARTMENT CONNECTION
	FIRE ALARM ASSEMBLY
	SPRINKLER VALVE ASSEMBLY
	PUMP
	FIRE DEPARTMENT CONNECTION

ABBREVIATIONS

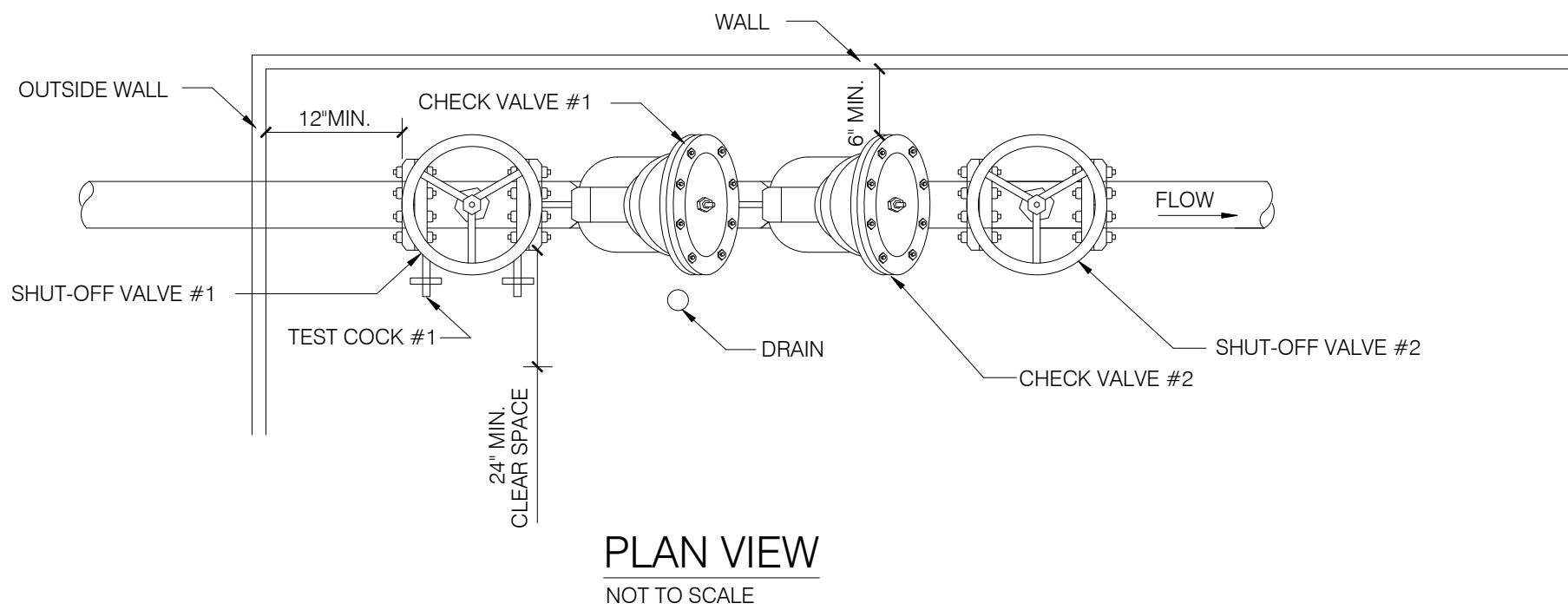
SVA	SPRINKLER VALVE ASSEMBLY
FAA	FIRE ALARM ASSEMBLY
F.P.C.	FIRE PROTECTION CONTRACTOR
FDC	FIRE DEPARTMENT CONNECTION
U.L.	UNDERWRITERS LABORATORY INC.

61G32 REQUIRMENTS

- TO ENSURE MINIMUM DESIGN QUALITY IN FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE.
 - THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY AS DEFINED BY SECTION 633.02(1)(7), F.S.
BASE4 RESPONSE: BASE4 HAS PROVIDED THE 8" FIRE PROTECTION WATER SUPPLY LOCATION. PLEASE REFER TO SHEET FP101 FOR THE POINT OF SERVICE SHOWN AT GRID LINE12-13.
 - APPLICABLE NFPA STANDARD TO BE APPLIED, OR IN THE CASE WHERE NO SUCH STANDARD EXISTS, THE ENGINEERING STUDY, JUDGMENTS, AND/OR PERFORMANCE BASED ANALYSIS AND CONCLUSIONS.
BASE4 RESPONSE: PLEASE REFER TO FP001 GENERAL NOTE #30.
 - CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA.
BASE4 RESPONSE: AS PER NFPA 13 THE HAZARD OCCUPANCY FOR THE BUILDING IS ORDINARY HAZARD. PLEASE REFER TO SHEET FP101-104 BELOW GENERAL NOTES.
 - DESIGN APPROACH, WHICH INCLUDES SYSTEM TYPE, DENSITIES, DEVICE TEMPERATURE RATING, AND SPACING FOR EACH SEPARATE HAZARD OCCUPANCY.
BASE4 RESPONSE: BASE4 HAS PROVIDED A WET PIPE SYSTEM FOR THIS PROJECT. MINIMUM DENSITY AND AREA OF COVERAGE SHOULD FOLLOW THE NFPA13 SECTION 11.2.3.1 AND SPRINKLER SPACING TO COMPLY WITH NFPA 13 SECTION 8.6.2.2.1.
 - CHARACTERISTICS OF WATER SUPPLY TO BE USED, SUCH AS MAIN SIZE AND LOCATION, WHETHER IT IS DEAD-END OR CIRCULATING, AND IF DEAD-END, THE DISTANCE TO THE NEAREST CIRCULATING MAIN, AS WELL AS ITS MINIMUM DURATION AND RELIABILITY FOR THE MOST HYDRAULICALLY DEMANDING DESIGN AREA.
BASE4 RESPONSE: CIVIL ENGINEER TO RESPOND. PLEASE REFER TO CIVIL ENGINEERING DRAWINGS.
 - WHEN PRIVATE OR PUBLIC WATER SUPPLIES ARE USED, THE FLOW TEST DATA, INCLUDING DATE AND TIME OF TEST, WHO CONDUCTED TEST OR SUPPLIED INFORMATION, TEST ELEVATION, STATIC GAUGE PRESSURE AT NO FLOW RATE WITH RESIDUAL GAUGE PRESSURE, HYDRANT BUTT COEFFICIENT, AND LOCATION OF TEST IN RELATION TO THE HYDRAULIC POINT OF SERVICE.
BASE4 RESPONSE: A FIRE FLOW TEST WAS CONDUCTED ON JAN 19, 2010 BY JEROMY MORTON CPH ENGINEERS. OWNER TO SUPPLY COPY OF THIS TEST.
 - VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER.
BASE4 RESPONSE: BASE4 HAS PROVIDED VALVES AND WATER SUPPLY ENTRY DETAIL. PLEASE REFER TO SHEET FP001 DETAIL-2.
 - MICROBIAL INDUCED CORROSION (MIC). THE ENGINEER OF RECORD SHALL MAKE REASONABLE EFFORTS TO IDENTIFY WATER SUPPLIES THAT COULD LEAD TO MICROBIAL INDUCED CORROSION (MIC). SUCH EFFORTS MAY CONSIST OF DISCUSSIONS WITH THE LOCAL WATER PURVEYOR AND/OR FIRE OFFICIAL, FAMILIARITY WITH CONDITIONS OF THE FIRE PROTECTION PIPING, THE ENGINEER SHALL DESIGN CORRECTIVE MEASURES.
BASE4 RESPONSE: COMPLETED.
 - BACKFLOW PREVENTION AND METERING SPECIFICATIONS AND DETAILS TO MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP.
BASE4 RESPONSE: REFER TO SHEET FP100 DETAIL-1 FOR BFP. WE HAVE PROVIDED A NOTE ON SHEET FP100 BELOW DETAIL-1. "BACKFLOW PREVENTION AND METERING SHALL MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP."
 - QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS.
BASE4 RESPONSE: BASE4 HAS ADDED NOTE "ALL QUALITY AND PERFORMANCE SPECIFICATIONS FOR THE FIRE PROTECTION COMPONENTS ARE PROVIDE IN NOTES ON THIS SHEET." PLEASE REFER TO SHEET FP001 NOTE # 31.
 - A DETERMINATION OF WHETHER A FIRE PUMP IS REQUIRED AND IF SO, THE SPECIFIC VOLUMETRIC FLOW AND PRESSURE RATING OF THE PUMP.
BASE4 RESPONSE: A FIRE PUMP IS NOT REQUIRED.
 - A VERIFICATION OF WHETHER A FIREWATER STORAGE TANK IS REQUIRED ON SITE AND IF SO, A DETERMINATION OF THE SIZE AND CAPACITY REQUIRED.
BASE4 RESPONSE: A FIRE WATER STORAGE TANK IS NOT REQUIRED.
 - OWNERS CERTIFICATE. IN STORAGE OCCUPANCIES, THE OWNERS INFORMATION CERTIFICATE IS REQUIRED FROM THE PROPERTY OWNER AS IT CLEARLY DEFINES THE STORAGE CONFIGURATION OF THE SPACE FOR THE CURRENT AND FUTURE USE OF THE PROPERTY, AS REQUIRED BY THE CODES AND STANDARDS SET FORTH IN SUBSECTION 61G15-32.002(7), F.A.C.
BASE4 RESPONSE: WE HAVE PROVIDED NOTE, 'OWNER SHALL SUBMIT THE OWNERS INFORMATION CERTIFICATE TO CITY.' SEE GENERAL NOTE #32 IN FP001 SHEET.



ELEVATION VIEW
NOT TO SCALE

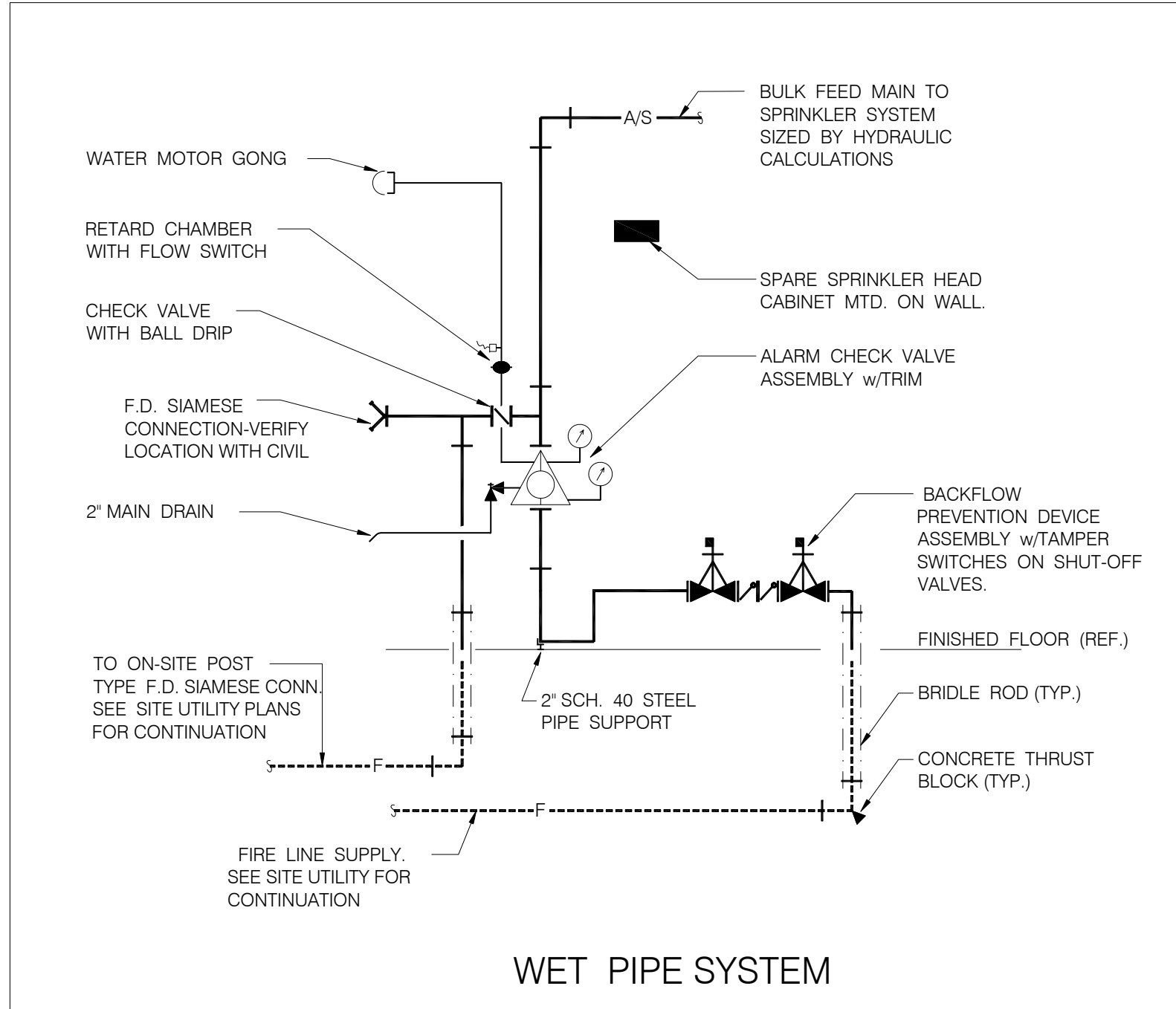


PLAN VIEW
NOT TO SCALE

NOTES:

- INDOOR INSTALLATION SHALL ONLY BE PERMITTED IN CASES WHERE ADEQUATE SPACE FOR THE BACKFLOW PREVENTION ASSEMBLY IS NOT AVAILABLE OUTSIDE. OWNER WILL REVIEW ON A CASE BY CASE BASIS.
- REDUCED PRESSURE ASSEMBLIES (RPA).
- APPROVED RPA INCLUDES SHUT-OFF VALVES.
- FIRE LINE INSTALLATIONS SHALL HAVE OUTSIDE STEM AND YOKE "OWNERS" HANDWHEEL OPERATORS. IF SERVING FIRE SPRINKLERS, TAMPER SWITCHES ARE REQUIRED.
- TEST COCK #1 SHALL BE UPSTREAM OF SHUT-OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
- ASSEMBLIES SHALL BE INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION UNLESS OTHERWISE APPROVED.
- PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED STANDARDS & SPECIFICATIONS.
- SUPPORT FOR ASSEMBLY SHALL BE DESIGNED BY GENERAL CONTRACTOR. IT IS RECOMMENDED 8'-10" RP BE SUPPORTED AT CENTER. THE SUPPORT SHALL NOT BLOCK RELIEF VALVE OR DRAIN PORT.
- AN AIR GAP DRAIN IS RECOMMENDED TO REDUCE SPLASHING OF MINOR DISCHARGES FROM THE RELIEF VALVE DRAIN PORT.
- ALL LOCATIONS FOR BPAS REQUIRE OWNER APPROVAL.
- NO TAPS, BRANCHES, FHS OR OTHER ACCESSORIES ARE PERMITTED ON THE PIPING BETWEEN THE BPA & METER.
- BACKFLOW PREVENTION AND METERING SHALL MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP.

1 RPZ BACKFLOW PREVENTER DETAIL
NOT TO SCALE



WET PIPE SYSTEM

2 AUTOMATIC SPRINKLER ENTRANCE/RISER DETAIL
NOT TO SCALE