

ABBREVIATIONS:

ACC	ABOVE ACCESSIBLE CEILING
ACT	ABOVE COUNTER TOP
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APR	AIR PRESSURE RESISTANT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BFP	BACKFLOW PREVENTER
BTM	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
CFH	CUBIC FEET PER HOUR
CONT	CONTINUATION
DB	DOMESTIC WATER BOOSTER
DCV	DOUBLE CHECK VALVE ASSEMBLY
DOW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
ET	EXPANSION TANK
EXIST	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOOR
FM	FORCE MAIN
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FU	FIXTURE UNIT
GALV	GALVANIZED
GCO	GRADE CLEANOUT
GP	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HP	HORSEPOWER
HWR	HOT WATER RETURN
HWRP	HOT WATER CIRCULATING PUMP
IE	INVERT ELEVATION
ISO	ISOMETRIC
LAV	LAVATORY
MEZZ	MEZZANINE
MS	MOP SINK
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NTS	NOT TO SCALE
ORW	OVERFLOW RAIN WATER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RW	RAIN WATER
SAN	SANITARY
SH	SHOWER
SK	SINK
SP	SUMP PUMP
SS	STAINLESS STEEL
TEMP	TEMPERATURE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VENT
VS	VENT STACK
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WG	INCH WATER GAUGE
WH	WATER HEATER
WS	WATER SOFTENER

FIRE PROTECTION CRITERIA

§1G15-32.003 (1) (2) (5)

(1) SCOPE OF WORK:
FIRE PROTECTION SYSTEM FOR NEW CONSTRUCTION, SINGLE-STORY, FIRE PROTECTION CONTRACTOR SHALL PROVIDE A FULL WET AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, LATEST ENFORCED EDITION.

(2) ACCEPTANCE TEST CRITERIA:
TESTING OF FIRE PROTECTION SYSTEM AND ITS COMPONENTS SHALL COMPLY WITH ALL APPLICABLE ITEMS PER NFPA 13, LATEST ENFORCED EDITION, FIGURE 10-1(A), CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE AND UNDERGROUND PIPING.

(5) STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS:
THE SUPPORT SYSTEM FOR THIS BUILDING SHALL BE DESIGNED BY A STATE LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH F.A.C., PLEASE REFER TO STRUCTURAL DRAWINGS FOR LIVE AND DEAD LOADING INFORMATION, THERE ARE NO SIGNIFICANT STRUCTURAL OPENINGS THAT WILL BE REQUIRED FOR THIS FIRE SPRINKLER SYSTEM.

§1G15-32.004 (2)

POINT OF SERVICE:
POINT OF CONNECTION SHOWN ON BUILDING PLAN THIS SHEET.

APPLICABLE NFPA STANDARD TO BE APPLIED:
NFPA 13, LATEST ENFORCED EDITION INSTALLATION OF FIRE PROTECTION SYSTEM.
NFPA 24, LATEST ENFORCED EDITION INSTALLATION OF PRIVATE FIRE SERVICE MAINS.
NFPA 25, LATEST ENFORCED EDITION STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION.

CLASSIFICATION OF HAZARD OCCUPANCY OF ALL AREAS OR ROOMS:

SPRINKLER HEADS:
155°F QUICK RESPONSE THROUGHOUT BUILDING, UNLESS OTHERWISE NOTED.

SPACING:
MAXIMUM PROTECTION SHALL BE 225 SQ. FT. FOR ALL LIGHT HAZARD AREAS, AND 130 SQ. FT. FOR ALL ORDINARY HAZARD GROUP I AND II AREAS, UNLESS OTHERWISE NOTED.

MICROBIAL INDUCED CORROSION (MIC):
CONTRACTOR SHALL ORDER AND OBTAIN A TEST LAB REPORT INDICATING THAT NO MIC IS PRESENT IN THE SYSTEM. PROVIDE A CHEMICAL INJECTION SYSTEM, AND PROVIDE BIODICIDES AND CORROSION INHIBITORS AS REQUIRED TO ELIMINATE MIC FOUND IN THE SYSTEM.

BACKFLOW PREVENTION AND METERING SPECIFICATIONS:
THE BACKFLOW PREVENTION AND METERING EQUIPMENT SHALL BE INSTALLED BY A MINIMUM OF A CLASS V CONTRACTOR AS LICENSED BY THE STATE FIRE MARSHAL. THE MAXIMUM ALLOWABLE PRESSURE LOSS ACROSS THE DEVICE SHALL BE 8 PSI AT SYSTEM DEMAND.

QUALITY AND PERFORMANCE SPECIFICATIONS OF FIRE PROTECTION COMPONENTS:
ALL FIRE PROTECTION COMPONENTS SHALL BE UL OR FM LISTED.

FIRE PROTECTION DATA

OCCUPANCY CLASSIFICATION:	ORDINARY GROUP II
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.20 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1500 SQ. FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	30 MIN.
MAX. COVERAGE /SPRINKLER HEAD:	225 SQ. FT.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	WASTE	VENT	CW	HW	NOTES
EWC-1	WATER COOLER	ELKAY	EZSTL8LC	2"	1 1/2"	1/2"	0"	BI-LEVEL, ADA COMPLIANT WATER COOLER WITH FRONT AND SIDE BUTTON OPERATION. MOUNTING HEIGHT PER LOCAL STATE AND ADA CODE REQUIREMENTS.
HYD-1	WALL HYDRANT	WOODFORD MFG.	865CC-P	0"	0"	3/4"	0"	
HYD-2	UNDERSINK WALL HYDRANT	WOODFORD MFG.	79	0"	0"	3/4"	0"	
IMB-1	ICE MACHINE BOX	OATEY	38580	0"	0"	1/2"	0"	OATEY MODEL 38580 1/4 TURN BRASS HAMMER BALL VALVE COPPER SWEAT PIPING. MOUNT BEHIND FREEZER/REFRIGERATOR IN WALL.
LAV-1	LAVATORY	AMERICAN STANDARD	4867.004	2"	1 1/2"	1/2"	1/2"	'REGALYN' BASIN, 4" (102mm) CENTERS, 19" x 17" x 6" (483mm x 432mm x 152mm) DEEP BOWL, WALL HUNG, ENAMELED CAST IRON GLOSSY FINISH, SPLASH BACK, FRONT OVERFLOW, SELF-DRAINING DECK WITH WALL HANGER. PROVIDE WITH AMERICAN STANDARD MODEL 6053.205 AUTOMATIC SENSOR FAUCET WITH 0.5 GPM PRESSURE LAMINAR FLOW. PROVIDE WITH MIXING VALVE WITH MAXIMUM TEMPERATURE SET POINT AT 105 DEG. F.
LAV-3	LAVATORY	AMERICAN STANDARD	0490.011	2"	1 1/2"	1/2"	1/2"	'RONDALYN' COUNTERTOP SINK 8" (203mm) CENTERS, 15" x 16 1/2" x 5-3/4" (381mm x 308mm x 146mm) DEEP BOWL, VITREOUS CHINA. PROVIDE WITH #901.862 MODEL FAUCET WITH 0.5 GPM AERATOR. PROVIDE WITH THERMOSTATIC MIXING VALVE WITH A TEMPERATURE SETPOINT AT 105 DEG. F.
MS-1	MOP SINK	FLORESTONE	MSR-2424	2"	2"	1/2"	1/2"	FLOOR MOUNTED, MOLDED STONE, 24" MOP SINK WITH HOSE BRACKET.
SH-1	SHOWER STALL	AQUATIC	6038BFSC	3"	2"	1/2"	1/2"	80" W X 36" D X 79" H ADA COMPLIANT SHOWER STALL WITH SEAT ON ONE SIDE AND FIXTURE WALL. OTHER SIDE REFER TO ARCHITECT DRAWINGS FOR SEAT AND FIXTURE WALL LOCATIONS.
SK-1	SINK	JUST	DLN-2237-A-GR	2"	1 1/2"	1/2"	1/2"	DEEP BOWL, 18 GAUGE STAINLESS STEEL SINK WITH 4" CENTERS. PROVIDE WITH JUST MODEL JVS-100A FAUCET WITH 1.5 GPM AERATOR. PROVIDE WITH JUST MODEL J-350 STAINLESS STEEL DRAIN WITH CRUMB CUP DRAINER.
SK-2	SINK	OPELLA	13202.046	1 1/2"	1 1/2"	1/2"	1/2"	BAR UNDER COUNTER MOUNTED, 18 GAUGE STAINLESS STEEL ADA COMPLIANT. PROVIDE WITH KINGSTON BRASS MODEL KB8498NDL TWO HANDLE FAUCET, 1.8 GPM FLOW RATE AT 60 PSI.
TP-1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	P1-500	0"	0"			AUTOMATICALLY FLUSHING TRAP PRIMER WITH 1/2" INLET AND OUTLET. SERVICE UP TO FOUR FLOOR DRAINS WITH DISTRIBUTION UNIT. INSTALL AT ACCESSIBLE LOCATION WITH A MINIMUM OF 6" ABOVE FLOOR LEVEL OF FLOOR DRAIN RIM. PROVIDE ACCESS PANEL AS REQUIRED.
UR-1	URINAL	AMERICAN STANDARD	6601.012	2"	2"		0"	WALL HUNG, ADA ACCESSIBLE WHITE VITREOUS CHINA, SIPHON JET URINAL WITH 1-1/4" TOP SPUD. PROVIDE WITH MANUAL FLUSH VALVE.
WB	WASHING MACHINE BOX	OATEY	38747	2"	1 1/2"		1/2"	CENTER DRAIN WASHING MACHINE OUTLET BOX WITH 1/4 TURN BRASS BALL VALVES.
WC-1	WATER CLOSET	AMERICAN STANDARD	2234.528	3"	2"	1/2"		AMERICAN STANDARD, FLOOR MOUNTED ELONGATED FLUSHMETER VALVE TOILET 1.1 GPF TO 1.6 GPF, WHITE, 2467.100. PROVIDE WITH SELECTRONIC FLUSH VALVE MODEL 6065.121.
WC-2	WATER CLOSET	AMERICAN STANDARD	2467.100	3"	2"	1/2"	0"	AMERICAN STANDARD, CADET FLOWISE RIGHT HEIGHT ELONGATED PRESSURE ASSISTED TOILET 1.1 GPF, WHITE, 2467.100.

WATER HEATER SCHEDULE

TYPE MARK	DESCRIPTION	STORAGE CAPACITY	HEATING INPUT (MBH)	TEMP. SET POINT	EFF. (%)	RECOVERY (GAL/HR)	MANUFACTURER	MODEL
WH 1	TANK TYPE WATER HEATER	80.0 gal	130	140	95	150	RHEEM	HE80-130
WH 2	TANK TYPE WATER HEATER	80.0 gal	199	140	97	153	RHEEM	GHE80ES-199
WH 3	TANK TYPE WATER HEATER	80.0 gal	130	140	95	150	RHEEM	HE80-130

ELECTRIC WATER HEATER SCHEDULE

TYPE MARK	MARK	DESCRIPTION	STORAGE CAPACITY	HEATING INPUT (KW)	TEMP. SET POINT	RECOVERY (GAL/HR)	MANUFACTURER	MODEL	ACCESSORIES
WH 4		ELECTRIC TANKLESS WATER HEATER	0 gal	6.24	105	0.00	CHRONOMITE	M-20L / 208	
WH 5		TANK TYPE WATER HEATER	10.0 gal	6	140	27.306923	RHEEM	EGSP10	PROVIDE WITH SAFETY PAN AND DRAIN. ROUTE TEMPERATURE AND PRESSURE RELIEF AND DISCHARGE TO SAFETY PAN. ROUTE SAFETY PAN DRAIN TO ADJACENT MOP SINK AND TERMINATE WITH AIR GAP. WATER HEATER SHALL BE INSTALLED ON CANTILEVERED SHELF AT MINIMUM 6'-0" ABOVE FINISHED FLOOR.

EXPANSION TANK SCHEDULE

UNIT TYPE MARK	UNIT IDENTIFIER	MANUFACTURER	MODEL
ET	1	AMTROL	ST-5-C

DRAINAGE PRODUCTS SCHEDULE

MARK	MANUFACTURER	STRAINER SIZE	MODEL	NOTES
FCO	JAY R. SMITH		4025	CAST IRON BODY FLOOR CLEANOUT WITH ADJUSTABLE SCORIATED NICKEL BRONZE TOP
FD-1	JAY R. SMITH		2010C-P050-NB	CAST IRON BODY FLOOR DRAIN WITH ADJUSTABLE STRAINER HEAD, 3" INSIDE CAULK OUTLET, NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.



DESIGN WORKS

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SCHEDULES AND ABBREVIATIONS
- PLUMBING

FANNIN CO. PUBLIC SAFETY COMPLEX
BLUE RIDGE, GA 30513

TITLE:

PROJECT:

ISSUE:

REVISIONS:

SEAL



DRAWN BY/

DATE:

CHECKED BY:

04.19.2017

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Order Plans @