ABBREVIATIONS

@	AT	EWC	ELECTRIC WATER COOLER	OPP	OPPOSITE
AAV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	OSD	OPEN SITE DRAIN
ABV	ABOVE	EX	EXISTING	PC	PRECAST
ADJ	ADJUSTABLE	EXP	EXPANSION	PCF	POUNDS PER CUBIT FOOT
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PD	PUMP DISCHARGE
AFF	ABOVE FINISHED FLOOR	FDC	FIRE DEPARTMENT CONNECTION	PLUMB	PLUMBING
AFG	ABOVE FINISHED GRADE	FDN	FOUNDATION DRAIN	PLYWD	PLYWOOD
AHU	AIR HANDLING UNIT	FF	FINISHED FLOOR	POLY	POLYETHYLENE
ALT	ALTERNATE	FFE	FINISHED FLOOR ELEVATION	PPT	PRESSURE PRESERVATIVE TREATED
ALUM	ALUMINUM	FG	FINISHED GRADE	PREFAB	PREFABRICATE(D)
AP	ACCESS PANEL	FH	FIRE HYDRANT	PROJ	PROJECT
APPR	APPROXIMATE	FHC	FIRE HOSE CABINET	PSF	POUNDS PER SQUARE FOOT
ARCH	ARCHITECTURAL	FHS	FIRE HOSE STATION	PSI	POUNDS PER SQUARE INCH
AUTO	AUTOMATIC	FHVC	FIRE HOSE VALVE CABINET	PV	PROPANE VENT
AVG	AVERAGE	FIX	FIXTURE	PVC	POLYVINYL CHLORIDE
BFF	BELOW FINISHED FLOOR	FLR	FLOOR	PVMT	PAVEMENT
BFG	BELOW FINISHED GRADE	FLSHG	FLASHING	R	RISER
BLDG	BUILDING	FOR	FUEL OIL RETURN	RAD	RADIUS
BO	BOTTOM OF	FOS	FUEL OIL SUPPLY	RD	ROOF DRAIN (BOTTOM OUTLET)
BOT	BOTTOM	FOV	FUEL OIL VENT	RDS	ROOF DRAIN (SIDE OUTLET)
BSMT	BASEMENT	FS	FLOOR SINK	REF	REFERENCE
BTWN	BETWEEN	FT	FOOT OR FEET	REQD	REQUIRED
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	REQMT	REQUIREMENTS
CI	CAST IRON	G	NATURAL GAS	RL	RAIN LEADER
CIP	CAST-IN-PLACE CONCRETE	GWH	GAS WATER HEATER	RM	ROOM
CL	CENTERLINE	HB	HOSE BIBB	RO	ROUGH OPENING
CLG	CEILING	HORIZ	HORIZONTAL	S	SOUTH
CLR	CLEAR	HP	HORSEPOWER	SAN	SANITARY
CMP	CORRUGATED METAL PIPE	HTG	HEATING	SCH	SCHEDULE
CNTR	COUNTER	HW	HOT WATER	SD	STORM DRAIN
CO	CLEANOUT	HWR	HOT WATER RETURN	SDN	STORM DRAIN NOZZLE
COL	COLUMN	HWS	HOT WATER SUPPLY	SHT	SHEET
CONC	CONCRETE	ID	INSIDE DIAMETER	SIM	SIMILAR
CONDS	CONDENSATE	IN	INCH	SLT	SEALANT
CONSTR	CONSTRUCT(ION)	INSUL	INSULATE OR INSULATION	SOG	SLAB ON GRADE
CONT	CONTINUATION	INV	INVERT	SP	SUMP PUMP
CONTR	CONTRACT(-OR)	JAN	JANITOR	SPEC	SPECIFICATION
CORR	CORRIDOR	KIT	KITCHEN	SPR	SPRINKLER
CP	CIRCULATING PUMP	KW	KITCHEN WASTE	SQ	SQUARE
CR	CLASSROOM	LAB	LABORATORY	SRD	SECONDARY ROOF DRAIN
CT	COOLING TOWER	LAV	LAVATORY	SS	STAINLESS STEEL
CU	COPPER	LBS	POUNDS	SSD	SECONDARY STORM DRAIN
CU FT	CUBIC FEET	LF	LINEAR FOOT (FEET)	STD	STANDARD
CU YD	CUBIC YARD	LP	PROPANE	STL	STEEL
CW	COLD WATER	LPV	PROPANE VENT	STOR	STORAGE
DB	DRY BULB	MATL	MATERIAL	STRUCT	STRUCTURAL
DCW	DOMESTIC COLD WATER	MAX	MAXIMUM	SUSP	SUSPENDED
DEMO	DEMOLISH OR DEMOLITION	MECH	MECHANICAL	THK	THICK(-NESS)
DF	DRINKING FOUNTAIN	MED	MEDIUM	TLT	TOILET
DHR	DOMESTIC HOT WATER RETURN	MFR	MANUFACTURER	TOSL	TOP OF SLAB
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MH	MANHOLE	TW	DOMESTIC TEMPERED WATER (90° F)
DHW	DOMESTIC HOT WATER	MIN	MINIMUM	TYP	TYPICAL
DHW(140)	DOMESTIC HOT WATER (140°)	MISC	MISCELLANEOUS	UG	UNDERGROUND
DI	DROP INLET	MTD	MOUNTED	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DIA	DIAMETER	N	NORTH	V	VENT
DIP	DUCTILE IRON PIPE	N/A	NOT APPLICABLE/AVAILABLE	VAC	VACUUM
DN	DOWN	NC	NORMALLY CLOSED	VB	VACUUM BREAKER
DS	DOWNSPOUT	NG	NATURAL GAS	VERT	VERTICAL
DT	DRAIN TILE	NGV	NATURAL GAS VENT	VTR	VENT THROUGH ROOF
DTL	DETAIL	NIC	NOT IN CONTRACT	W	WEST
DTW	DOMESTIC TEMPERED WATER	NO	NORMALLY OPEN	W/	WITH
DWG	DRAWING	NO., (#)	NUMBER	W/O	WITHOUT
E	EAST	NOM	NOMINAL	WB	WATER HAMMER ARRESTER
ELEC	ELECTRICAL	OC	ON CENTER	WC	WATER CLOSET
EPBD	ELECTRICAL PANELBOARD	OD	OUTSIDE DIAMETER	WSHP	WATER SOURCE HEAT PUMP
EQ	EQUAL	OFF	OFFICE	WWF	WELDED WIRE FABRIC
EQUIP	EQUIPMENT	OH	OVERHEAD	WWM	WELDED WIRE MESH
ETR	EXISTING TO REMAIN	OPNG	OPENING	XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND

- X" XXX — PIPE WITH SIZE AND SERVICE
- FLOW IN DIRECTION OF ARROW
- 1/8" FT — PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- UNION
- CONCENTRIC PIPE REDUCTION
- CO — END OF LINE CLEANOUT PLUG
- CO — FLOOR CLEANOUT
- WCO — WALL CLEANOUT
- CO (GCO) — YARD CLEANOUT (CLEANOUT TO GRADE)
- FD-1 — FLOOR DRAIN WITH TAG
- FS-1 — FLOOR SINK WITH TAG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- A — WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)
- FS — FLOW SWITCH
- TEMPERATURE/PRESSURE PLUG
- VALVE
- VALVE IN RISER
- GAS COCK
- VENTURI FLOW METER
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID OPERATED VALVE
- T&P — TEMPERATURE AND PRESSURE RELIEF VALVE
- BACKWATER VALVE
- HOSE BIBB OR WALL HYDRANT
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- PUMP
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- **SECTION WHERE CUT**: A — SECTION LETTER; P6.1 — DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 — ENLARGED PLAN NUMBER; P6.1 — DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 — DETAIL NUMBER; P6.1 — DRAWING WHERE DETAIL IS INDICATED
- **SANITARY RISER TAG**: S1 — SANITARY RISER IDENTIFIER; P6.1 — DRAWING WHERE SANITARY RISER IS TAGGED
- **DOMESTIC RISER TAG**: D1 — DOMESTIC RISER IDENTIFIER; P6.1 — DRAWING WHERE SANITARY RISER IS TAGGED

1 DETAIL TITLE
P2.2 P6.2 P2.4 — 1/4"=1'-0"
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

S1 SANITARY RISER DIAGRAM
P2.2 P4.2 P2.4 — 1/4"=1'-0"
- SANITARY RISER DIAGRAM IDENTIFIER
- DRAWING WHERE SANITARY RISER IS INDICATED
- DRAWING WHERE SANITARY RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

D1 DOMESTIC RISER DIAGRAM
P2.2 P5.2 P2.4 — 1/4"=1'-0"
- DOMESTIC RISER DIAGRAM IDENTIFIER
- DRAWING WHERE DOMESTIC RISER IS INDICATED
- DRAWING WHERE DOMESTIC RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

G1 FUEL GAS RISER DIAGRAM
P2.2 P5.2 P2.4 — 1/4"=1'-0"
- FUEL GAS RISER DIAGRAM IDENTIFIER
- DRAWING WHERE FUEL GAS RISER IS INDICATED
- DRAWING WHERE FUEL GAS RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

PLUMBING FIXTURE ROUGHING-IN SCHEDULE

TAG	FIXTURE	MOUNTING HEIGHT	PIPE SIZE: HOT WATER	PIPE SIZE: COLD WATER	PIPE SIZE: SOIL/ WASTE	PIPE SIZE: MINIMUM VENT	NOTES
P-1A	FLOOR MTD WATER CLOSET	TOP OF SEAT 15"		1/2"	4"	1 1/2"	LOCATE FLUSH ACTUATOR ON THE WIDE SIDE OF THE STALL OR APPROACH AREA
P-2A	WALL-HUNG LAVATORY	RIM AT 33"	1/2"	1/2"	1 1/2"	1 1/2"	
P-3A	SHOWER	MATCH EXISTING	1/2"	1/2"	2"	2"	
P-4A	DRINKING FOUNTAIN	BUBBLER AT 34"		1/2"	1 1/4"	1 1/4"	
P-5A	HOSE BIBB	MATCH EXISTING		1/2"			

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT , DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.

C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.

D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.

E. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.

F. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.

G. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS

GENERAL DATA

SERVICE SIZING

INSTANTANEOUS DEMAND (GPM)	44
SUPPLY FIXTURE UNITS (SFU)	31
DRAINAGE FIXTURE UNITS (DFU)	33

STORM DRAINAGE

AREA OF ROOF (SQUARE FEET)	7104.00
AREA OF WALL ABOVE/ADJACENT TO ROOF (SQUARE FEET)	144.00
TOTAL ROOF DRAINAGE (SQUARE FEET)	7248.00

WATER HEATERS

NUMBER	(EX)1
HOT WATER REQUIRED	80
FUEL USED	ELEC

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10-15-15
PROFESSIONAL ENGINEER

EVIDENCE STORAGE BUILDING

SMITHFIELD, VIRGINIA

PROJECT NO: 550322	DATE: OCTOBER 15, 2015
REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

P0.1

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