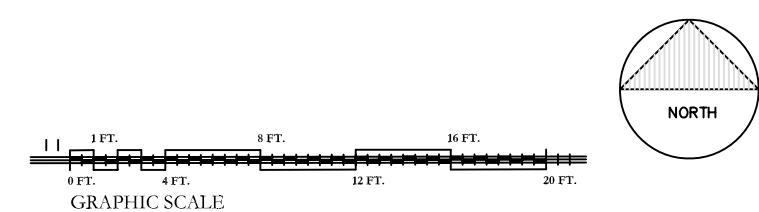
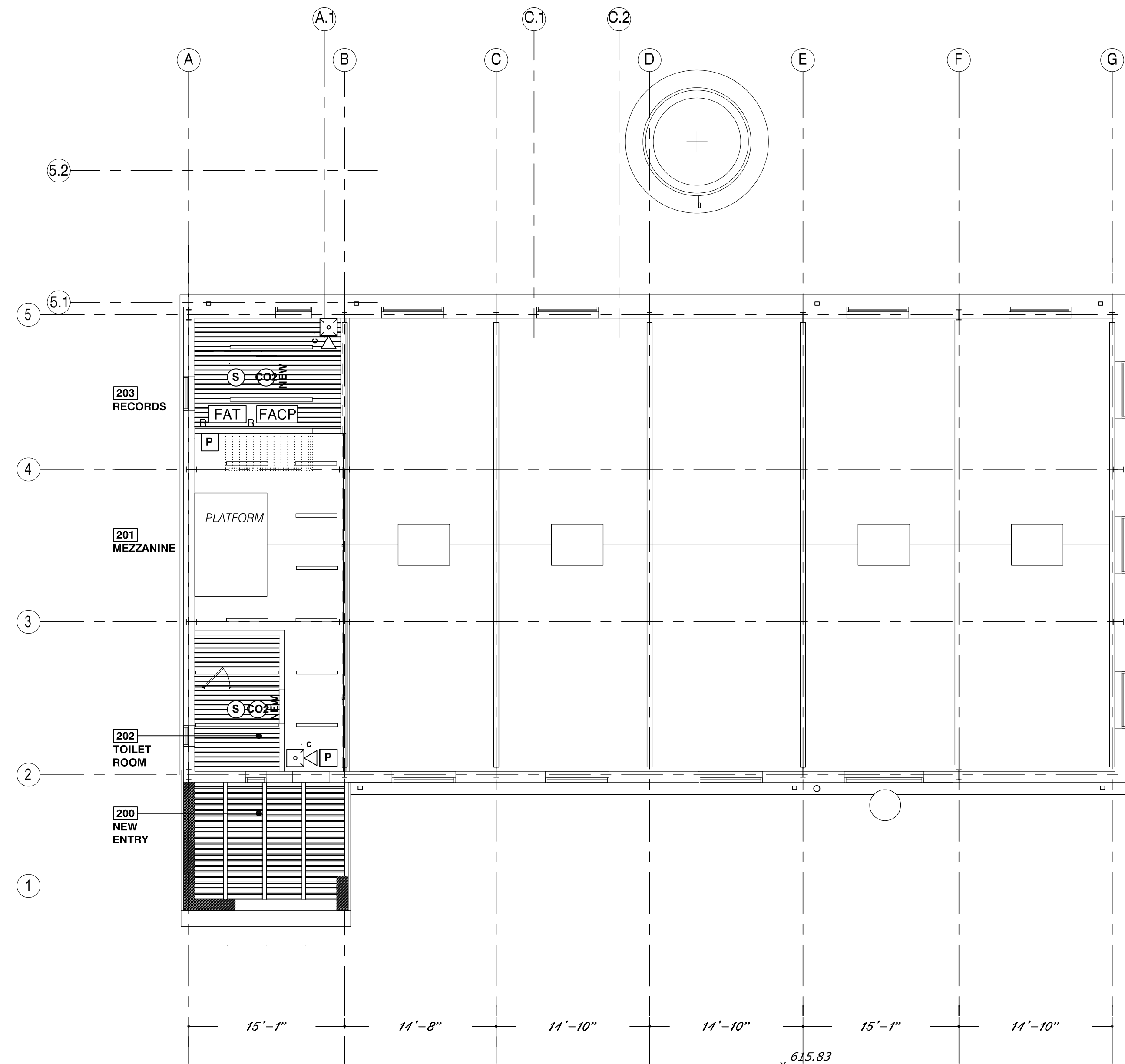


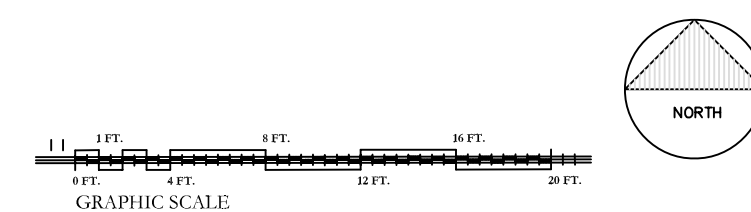
EXISTING LOFT PLAN
scale: 1/8" = 1' - 0"



- KEY**
- EXISTING DEVICES**
- EXISTING ADDRESSABLE SMOKE DETECTOR CONNECTED TO FIRE ALARM SYSTEM.
 - EXISTING ADDRESSABLE CARBON DIOXIDE DETECTOR CONNECTED TO FIRE ALARM SYSTEM.
 - EXISTING MANUAL PULL STATION CONNECTED TO FIRE ALARM SYSTEM.
 - EXISTING COMBINATION SYNCHRONIZED SPEAKER/STROBE UNIT CONNECTED TO FIRE ALARM SYSTEM.
 - EXISTING SPEAKER UNIT CONNECTED TO FIRE ALARM SYSTEM.
 - EXISTING STROBE UNIT CONNECTED TO FIRE ALARM SYSTEM.
 - EXISTING FIRE ALARM SYSTEM PANEL.
- NEW DEVICES**
- PROVIDE NEW ADDRESSABLE SMOKE DETECTORS & CONNECT TO NEW FIRE ALARM SYSTEM.
 - PROVIDE NEW ADDRESSABLE CARBON DIOXIDE DETECTORS & CONNECT TO NEW FIRE ALARM SYSTEM.
 - PROVIDE NEW MANUAL PULL STATION (ADDRESSABLE) & CONNECT TO NEW FIRE ALARM SYSTEM.
 - PROVIDE NEW COMBINATION SYNCHRONIZED SPEAKER/STROBE UNIT (15 / 75 CDL) TO NEW FIRE ALARM SYSTEM.




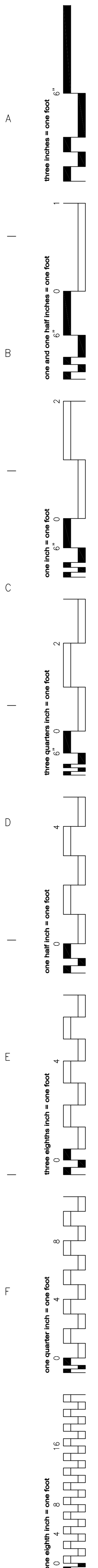
PROPOSED LOFT PLAN
scale: 1/8" = 1' - 0"



BUILDING 14 LOFT FLOOR NON SPRINKLERED INDUSTRIAL OCCUPANCY

FINAL CONSTRUCTION

 Addendum No. 2	August 29, 2017					PROJECT MANAGER:					Project Number	13901	Scale	As Indicated	Drawing Title BOILER HOUSE Fire/Smoke Detection & Alarm LOFT & ROOF PLANS	Project Title RENOVATE BUILDING 14 BOILER PLANT	VA Project Number 542-10-104		Office of Facilities Management	
	Architect:		Structural Engineer:		MERPP Engineer:		Cost Estimator:		Certified Industrial Hygienist		BRAYMOONEY CONSULTING 410 E. 21 STREET CHESTER, PA 19013 Tel: (610) 872-3716						Building Number 14			
	WILLIAM COOK ARCHITECTURE & PLANNING		WZG, Inc.		MILLER-REMICK, LLC		BRAY MOONEY CONSULTING		MABBETT & ASSOCIATES, INC.								Drawing Number FE102			
	1251 ROMANSVILLE RD. COATESVILLE, PA 19020 Tel: (610) 383-4960		180 WEST RIDGE PIKE LIMERICK, PA 19468 Tel: (610) 329-5559		1010 KINGS HIGHWAY S. CHERRY HILL, NJ 08034 Tel: (856) 429-4000		410 E. 21 STREET CHESTER, PA 19013 Tel: (610) 872-3716		5 ALFRED CIRCLE BEDFORD, MA 01730 Tel: (800) 877-6059								Dwg. 00 of 00			
Revisions		Date		Approved: Project Director		Location 1400 Black Horse Hill, Coatesville, PA		Date APRIL 22, 2017		Checked WmC.		Drawn draft		Department of Veterans Affairs						



PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	L/S	LITER PER SECOND
AD	AREA DRAIN	LA	LABORATORY AIR
AF	ABOVE FINISH FLOOR	LAV	LAVATORY
AFG	ABOVE FINISH GRADE	LBS/HR	POUNDS PER HOUR
AG	AIR GAP	LCW	LABORATORY COLD WATER
AP	ACCESS PANEL	LHW	LABORATORY HOT WATER
AS	AUTOMATIC SPRINKLER	LHWR	LABORATORY HOT WATER RETURN
ASD	ADJUSTABLE SPEED DRIVES	LNG	LIQUID NATURAL GAS
ASD	AUTOMATIC SPRINKLER DRAIN	LOX	LIQUID OXYGEN
ASHRAE	AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	LW	LABORATORY VACUUM
		LWV	LABORATORY WASTE VENT
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	M	METER
ASPE	AMERICAN SOCIETY PLUMBING ENGINEERS	MA	MEDICAL AIR
ASR	AUTOMATIC SPRINKLER RISER	MAV	MANUAL AIR VENT
AV	ACID VENT	MBH	1000 BTUH
AW	ACID WASTE	MED	MEDICAL
		MER	MECHANICAL EQUIPMENT ROOM
BFP	PRESSURE BACKFLOW PREVENTER	MH	MANHOLE
BMS	BREAK HORSEPOWER	MOU	MEMORANDUM OF UNDERSTANDING
BSP	BLACK STEEL PIPE	MSB	MOP SERVICE BASIN
BT	BATHTUB	MV	MEDICAL VACUUM
BTU	BRITISH THERMAL UNIT	(N)	NEW, NEW WORK
BTUH	BRITISH THERMAL UNIT PER HOUR	N2	NITROGEN
		N2O	NITROUS OXIDE
C	CELSIUS	NC	NORMALLY CLOSED
CGA	COMPRESSED GAS ASSOCIATION	NG	NATURAL GAS
CI	CAST IRON	NIC	NOT IN CONTRACT
CO	CLEANOUT	NO	NORMALLY OPEN
CS	CLINICAL SINK	NOM	NOMINAL
CV	CONTROL VALVE	NPW	NOT POTABLE WATER
		NTC	NOT TO SCALE
(D)	DEMOLISH AND REMOVE	O2	OXYGEN
DCW	DOMESTIC COLD WATER	OC	ON CENTER
DHW	DOMESTIC HOT WATER	OD	OUTSIDE DIAMETER
DHWR	DOMESTIC HOT WATER RETURN	OFD	OVERFLOW DRAIN
DHWS	DOMESTIC HOT WATER SUPPLY	OR	OPERATING ROOM
DI	DEIONIZED WATER	OVFL	OVERFLOW
DN	DOWN	PA	PASCAL
DOE	DEPARTMENT OF ENERGY	PD	PRESSURE DROP OR DIFFERENCE
DS	DOWNSPOUT	PDI	PLUMBING AND DRAINAGE INSTITUTE
DT	DRAIN TILE	PG	PRESSURE GAGE
DW	DISHWASHER	PP	PLUMBING PUMP
DWG	DRAWING	PPM	PARTS PER MILLION
DWH	DOMESTIC WATER HEATER	PRS	PRESSURE REDUCING STATION
DWR	DOMESTIC WATER RETURN	PRV	PRESSURE REDUCING VALVE
DWS	DRINKING WATER SUPPLY	PSI	POUNDS PER SQUARE INCH
DWV	DRAIN WASTE VENT	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
(E)	EXISTING TO REMAIN	PSIG	POUNDS PER SQUARE INCH GAUGE
EL	ELEVATION	PTVR	PRESSURE TEMPERATURE RELIEF VALVE
EMCS	ENERGY MONITORING AND CENTRAL SYSTEM	PW	POTABLE WATER
EPA	ENVIRONMENTAL PROTECTION AGENCY		
EPACT	ENERGY POLICY ACT	RD	ROOF DRAIN
ESC	ESCAPOHEON	RDL	ROOF DRAIN LEADER
ESH	EMERGENCY SHOWER	RL	ROOF LEADER
ET	EXPANSION TANK	RO	REVERSE OSMOSIS WATER
EWC	ELECTRIC WATER COOLER	RWL	RAIN WATER LEADER
EW	ELECTRIC WATER HEATER		
EW	EYE WASH STATION	SAN	SANITARY SEWER
EX	EXISTING	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
F	FAHRENHEIT	SCFM	STANDARD CUBIC FOOT/MINUTE
FCO	FLOOR CLEANOUT	SCW	SOFTENED COLD WATER
FCW	FILTERED COLD WATER	SD	STORM DRAIN
FD	FLOOR DRAIN	SDMH	STORM DRAIN MANHOLE
FDC	FIRE DEPARTMENT (HOSE) CONNECTION	FL	FLOOR
FDM	FLOW METER	SP	SUMP PUMP
FOP	FUEL OIL PUMP	SPR	SPRINKLER LINE
FOR	FUEL OIL RETURN	SQFT	SQUARE FEET
FOS	FUEL OIL SUPPLY	SS	STAINLESS STEEL
FOV	FUEL OIL VENT	ST	STORAGE TANK
FS	FLOOR SINK	SW	STORM WATER
FS	FLOW SWITCH		
FU	FIXTURE UNITS	TCV	TEMPERATURE CONTROL VALVE
		TD	TEMPERATURE DIFFERENCE
GAL	GALLON	TD	TRENCH DRAIN
GCO	GRADE CLEANOUTS	TDH	TOTAL DYNAMIC HEAD
GPD	GALLONS PER DAY	TEMP	TEMPERATURE
GPH	GALLONS PER HOUR	TMV	THERMOSTATIC MIXING VALVE
GPM	GALLONS PER MINUTE	TP	TRAP PRIMER
GPR	GAS PRESSURE REGULATOR	TSTAT	THERMOSTAT
GRS	GAS REGULATOR STATION	TWR	TEMPERED WATER RETURN
GT	GREASE TRAP	TWS	TEMPERED WATER SUPPLY
GVR	GAS VENT THROUGH ROOF	TYP	TYPICAL
GWR	GAS FIRED WATER HEATER	UPC	UNIFORM PLUMBING CODE
H&CW	HOT AND COLD WATER	UR	URINAL
HB	HUB DRAIN	V	VENT
HD	HOT WATER STORAGE TANK (DOMESTIC)	VAC	VACUUM
HEX	HEAT EXCHANGER	VB	VACUUM BREAKER
HP	HORSEPOWER	VCO	VACUUM CLEANER OUTLET
HS	HAND SINK	VP	VACUUM PUMP
HST	HOT WATER STORAGE TANK (DOMESTIC)	VS	VENT STACK
HWB	HOT WATER BOILER	VTR	VENT THROUGH ROOF
HWCP	HOT WATER CIRCULATING PUMP		
HWP	HOT WATER PUMP	W	WASTE
HYD	HYDRANT	WC	WATER CLOSET
ICW	INDUSTRIAL COLD WATER	WCO	WALL CLEANOUT
INV	INVERT	WG	WATER GAGE
IPC	INTERNATIONAL PLUMBING CODE	WH	WALL HYDRANT
IRW	IRRIGATION WATER	WH	WATER HEATER
IW	INDIRECT WASTE	WHA	WATER HAMMER ARRESTER
IWR	INSTANTANEOUS WATER HEATER	WL	WATER LINE
IWS	INDUSTRIAL WATER RETURN	WM	WATER METER
IWS	INDUSTRIAL WATER SUPPLY	WPD	WATER PRESSURE DROP
		WS	WASTE STACK
KW	KILOWATT	YCO	YARD CLEANOUT
KWHR	KILOWATT-HOUR	YH	YARD HYDRANT

NOTE:
ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE INDICATED ON THE DRAWINGS.

PLUMBING PIPING SYMBOLS

---	EXISTING TO REMAIN
----	EXISTING TO BE REMOVED
---DCW---	DOMESTIC COLD WATER, COLD WATER
---DHW---	DOMESTIC HOT WATER, HOT WATER
---DHWR---	DOMESTIC HOW WATER RETURN, HOT WATER RETURN
---DWS---	DRINKING WATER SUPPLY
---MA---	MEDICAL AIR
---CA---	COMPRESSED AIR
---MPA---	MEDIUM PRESSURE COMPRESSED AIR
---HPA---	HIGH PRESSURE COMPRESSED AIR
---MV---	MEDICAL VACUUM
---LA---	LABORATORY AIR
---LV---	LABORATORY VACUUM
---OV---	ORAL EVACUATION
---IA-----IA---	INDUSTRIAL AIR
---D---	DRAIN
---SAN---	SANITARY SEWER
---SS---	SANITARY SEWER (OPTIONAL)
---SAN---	SANITARY SEWER, BELOW GRADE
-----	SANITARY VENT
---SD---	STORM WATER
---ST---	STORM WATER, BELOW GRADE
---DT---	PERIMETER OR UNDERSLAB DRAIN TILE
---SCW---	SOFTEN COLD WATER
---FCW---	FILTERED COLD WATER
---ROS---	REVERSE OSMOSIS WATER SUPPLY
---ROR---	REVERSE OSMOSIS WATER RETURN
---TWS---	TEMPERED WATER SUPPLY
---TWR---	TEMPERED WATER RETURN
---N2O---	NITROUS OXIDE
---O2---	OXYGEN
---N2---	NITROGEN
---LPG---	LIQUEFIED PETROLEUM (LP) GAS
---NG---	NATURAL GAS
---NG-----NG---	NATURAL GAS, BELOW GRADE
---LW---	LABORATORY WASTE
---LW-----LW---	LABORATORY WASTE BELOW GRADE
---LWV-----LWV---	LABORATORY WASTE VENT

PLUMBING VALVE SYMBOLS

	BALANCING VALVE
	GATE VALVE (ISOLATION VALVE)
	ISOLATION VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	AUTOMATIC FLOW CONTROL VALVE
	PRESSURE RELIEF VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	BACKFLOW PREVENTER

GENERAL PLUMBING SYMBOLS

	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION TO EXISTING WORK
	LIMIT OF DEMOLITION
	STRAINER
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	CLEAN OUT
	HOSE BIB
	FLOOR DRAIN

DRAWING SYMBOLS

	KEY NOTE SYMBOL
	MULTIPLE KEY NOTES APPLYING TO THE SAME ITEM
	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE SHOWN
	BUILDING NO. WHERE EQUIPMENT IS LOCATED.
	EQUIPMENT ABBREVIATION (PUMP)
	PUMP NO. 3 IN BUILDING NO. 26
	TYPICAL UNIT NO.
	RISER IDENTIFICATION
	1 HR FIRE RATED WALL
	2 HR FIRE RATED WALL
	SMOKE WALL
	AREA OF WORK

GENERAL NOTES

GENERAL

- PRIOR TO ANY WORK COMMENCING IN AN AREA, THE CONTRACTOR SHALL NOTIFY THE COR OF HIS INTENTION TO WORK IN THE AREA AND SHALL SCHEDULE A WALKTHROUGH WITH THE COR TO DETERMINE EXISTING CONDITIONS. AFTER THE WORK, THE EXISTING WORK AREAS SHALL BE RETURNED TO THEIR ORIGINAL STATE BEFORE FINAL APPROVAL. SHALL BE GIVEN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS, PIPE SIZES AND MATERIALS, FLUID FLOW DIRECTION(S) AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING INSTALLATION OR FABRICATION WORK. (DO NOT SCALE DRAWINGS).
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES EVEN IF THE UTILITIES ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REPAIR ALL DAMAGES AT THEIR OWN EXPENSE AND WILL BE RESPONSIBLE FOR ANY ADDITIONAL DAMAGES CAUSED BY A SYSTEM BEING DOWN.
- DAMAGE TO EXISTING WALLS, CEILINGS AND FLOORS DUE TO THE WORK OF THIS CONTRACTOR, INCLUDING REMOVAL OF FLOOR DRAIN AND PIPE PENETRATIONS, SHALL BE RESTORED TO ORIGINAL CONDITION. REFER TO ARCHITECTURAL DOCUMENTS FOR FINISHES.
- THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, TEMPORARY FENCES, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE RESTORED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.
- ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE DONE IN ACCORDANCE WITH THE GOVERNING CODES, INDUSTRY STANDARDS AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
- WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED.
- WORK ALL DRAWINGS WITH THE PROJECT SPECIFICATIONS.
- PIPING RISING WITHIN A STORY IS DESIGNATED AS "RISE". PIPING RISING TO ANOTHER STORY IS NOTED AS "UP". PIPING DROPPING WITHIN A STORY IS NOTED AS "DROP". PIPING DROPPING TO ANOTHER STORY IS NOTED AS "DN".
- AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLETELY CLEAN ALL SURFACES OF CONSTRUCTION DEBRIS. SURFACES SHALL BE WIPED CLEAN OF DUST, INCLUDING FIXTURES, WINDOW SILLS, DOOR FRAMES, ETC.. ANY TOILETS OR SINKS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY CLEANED AFTER THE CONSTRUCTION HAS BEEN COMPLETED USING NATURAL CLEANSER.
- THE CONTRACTOR SHALL RECEIVE ALL DELIVERIES OF MATERIALS, EQUIPMENT, TOOLS, OR OTHER GOODS OFF OF STATION, AND BRING THEM TO THE JOB SITE. THE VA MEDICAL CENTER SHALL NOT ACCEPT DELIVERIES FOR PROJECT PURPOSES.

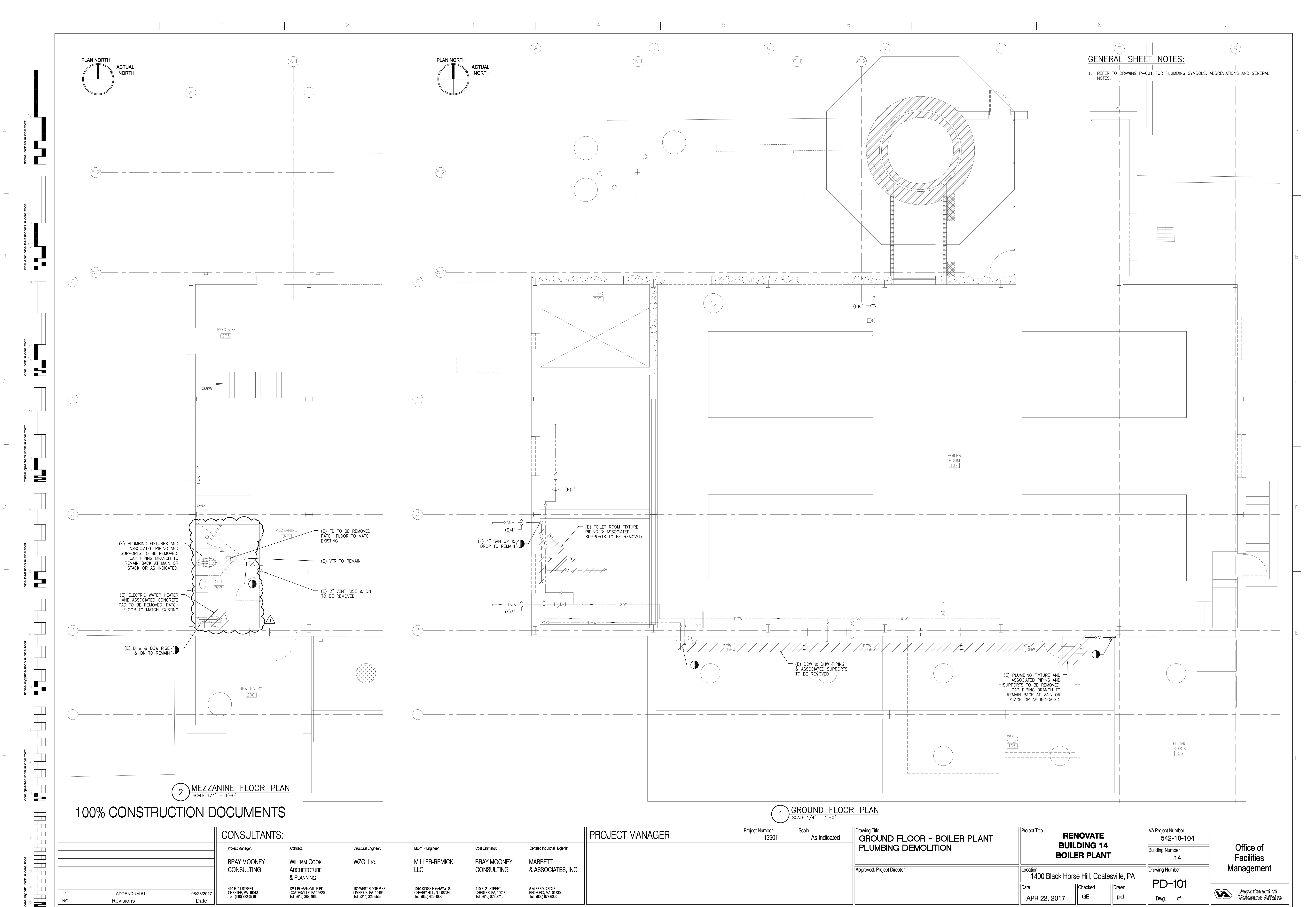
PLUMBING NOTES

- ALL PLUMBING MATERIALS AND COMPONENTS INCLUDING FITTINGS, PIPE, FLANGES, VALVES, ETC. SHALL BE DESIGNATED, FABRICATED AND INSTALLED PER THE APPROPRIATE SECTIONS OF THE LATEST CODES, VETERAN'S AFFAIRS PLUMBING STANDARDS AND PROJECT CONTRACT DOCUMENTS.
- ALL SANITARY SEWERS 2" AND SMALLER SHALL SLOPE 1/4" PER FOOT (MIN), ALL SANITARY SEWERS 3" AND LARGER SHALL SLOPE 1/8" PER FOOT (MIN.) IN THE DIRECTION OF FLOW.
- ALL HORIZONTALLY ROUTED WASTE VENTS SHALL BE INSTALLED WITH A SLOPE TO FACILITATE GRAVITY DRAINAGE TO THE WASTE SYSTEM.
- ALL CLEANOUTS INSTALLED IN THE SEWER SYSTEM SHALL BE SIZED AS FOLLOWS:

PIPE SIZE	SIZE OF CLEANOUT
2"	2"
2 1/2"	2 1/2"
3"	3"
4-6"	4"
- CLEANOUTS INSTALLED IN HORIZONTAL DRAINAGE PIPING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 100'.
- THE MAXIMUM VERTICAL DISTANCE FROM THE FIXTURE OUTLET (LAVATORY, FLOOR DRAIN ETC.) TO THE TRAP WEIR SHALL BE 24".
- SURFACES TO BE SOLDERED SHALL BE CLEANED BRIGHT, THE JOINTS SHALL BE PROPERLY FLUXED AND MADE WITH APPROVED SOLDER. SOLDER JOINTS FOR POTABLE WATER SHALL BE MADE WITH A SOLDER CONTAINING NOT MORE THAN 0.2 PERCENT LEAD.
- UNIONS SHALL BE INSTALLED AT ALL EQUIPMENT. THE USE OF DIELECTRIC UNIONS AND FLANGES MUST BE INSTALLED IN AREAS WHERE JOINING OF DISSIMILAR METALS (ie CARBON STEEL TO COPPER OR BRONZE, ETC.) THIS IS TO FACILITATE PIPING REMOVAL AND REASSEMBLY FOR FUTURE MAINTENANCE WORK AND/OR PREVENT GALVANIC CORROSION.
- CONTRACTOR SHALL PROPERLY BRACE, ANCHOR, AND SUPPORT ALL PIPING, VALVES ETC. IN ACCORDANCE WITH MSS SP-58.
- PIPE SUPPORT SPACING SHALL BE IN ACCORDANCE WITH MSS-58.
- ALL POTABLE WATER BRANCHES SHALL BE INSTALLED WITH ISOLATION VALVES CLOSE TO MAIN.
- ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH WATER ISOLATION VALVES.
- CONTRACTOR SHALL PROVIDE WALL ACCESS COVERS TO ALL CLEANOUTS AND VALVES LOCATED WITHIN WALLS.
- ALL WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES SHALL BE PROTECTED IN ACCORDANCE WITH SPECIFICATIONS.
- ALL PIPES OR TUBING WHICH PASS THROUGH RATED AND NON-RATED WALLS, FLOORS AND FOUNDATION WALLS, SHALL PASS THROUGH A SCHEDULE 40 CARBON STEEL PIPE SLEEVE. SLEEVES WHICH PASS THROUGH MASONRY SHALL BE GALVANIZED COATED. ALL SLEEVES SHALL BE INSTALLED FLUSH ON BOTH SIDES OF WALL PENETRATION. NON-RATED WALLS: THE SLEEVE SHALL BE SIZED TO ALLOW FREE PASSAGE OF INSULATED AND NON-INSULATED PIPES AND TUBING. RATED WALLS: PIPES WHICH PASS THROUGH FIRE-RATED WALLS & FLOOR SHALL USE THE APPROPRIATE DETAILED INSTALLATION METHOD OF SEALING WHILE MAINTAINING THE INTEGRITY OF THE WALL'S FIRE RATING(S). EXTENSION WALLS & FOUNDATION: PIPES WHICH PASS THROUGH EXTENSION WALLS OR FOUNDATION WALLS SHALL BE SEALED AND MADE WEATHER-TIGHT.
- INSULATE COLD AND HOT WATER PIPING PER THE PROJECT DOCUMENTS WITH FIRE RETARDANT VAPOR BARRIER JACKET. PIPE INSULATION SHALL BE SEALED WITH A FIRE RESISTIVE ADHESIVE.
- CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND COORDINATION OF INSPECTIONS OF THE ENTIRE POTABLE WATER, SANITARY SEWER AND VENT SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE INTERNATIONAL PLUMBING CODE.
- ALL PIPING AND VALVES SHALL BE PROPERLY IDENTIFIED, LABELED AND TAGGED. CONTRACTOR SHALL SUBMIT VALVE TAG LIST PER SPECIFICATIONS.
- CONTRACTOR SHALL FLUSH AND DISINFECT THE ENTIRE POTABLE WATER SYSTEM. FLUSHING AND DISINFECTION OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE INTERNATIONAL PLUMBING CODE.
- PROVIDE THREE (3) ELBOW SWING JOINTS FOR ALL DOMESTIC HOT WATER CONNECTIONS TO THE MAIN.
- CONTRACTOR SHALL PROVIDE AND INSTALL THERMAL EXPANSION/CONTRACTION COMPENSATION IN THE DOMESTIC HOT WATER AND RECIRCULATION SYSTEMS. LIMITING THE MAXIMUM MOVEMENT TO 1 1/2" OR LESS. ANCHORS & RESTRAINTS SHALL BE INSTALLED WHERE NECESSARY. ALL PIPES SHALL BE PROPERLY GUIDED INTO THE THERMAL EXPANSION LOOPS OR COMPENSATORS.
- NO PRESSURIZED PIPING SHALL BE TERMINATED AND ABANDONED IN A WALL OR OTHER INACCESSIBLE AREA. ALL TERMINATIONS SHALL INCLUDE REMOVAL OF PIPING BACK TO AN EASILY ACCESSIBLE AREA WHERE THE TERMINATION SHALL BE MADE.
- ALL FIXTURES SUPPLIED WITH DOMESTIC USE HOT WATER SHALL BE PROVIDED WITH A MIXING VALVE AND ANTI-SCALD DEVICE TO LIMIT OUTLET WATER TEMPERATURE TO 110 DEG. F. IN ACCORDANCE WITH VA DIRECTIVE 1061.

FINAL CONSTRUCTION

CONSULTANTS:						PROJECT MANAGER:		Project Number 13901	Scale As Indicated	Drawing Title PLUMBING SYMBOLS, ABBREVIATIONS AND GENERAL NOTES		Project Title RENOVATE BUILDING 14 BOILER PLANT	VA Project Number 542-10-104	Office of Facilities Management 	
Project Manager: BRAY MOONEY CONSULTING						Architect: WILLIAM COOK ARCHITECTURE & PLANNING	Structural Engineer: WZG, Inc.	MEP/FF Engineer: MILLER-REMICK, LLC	Cost Estimator: BRAY MOONEY CONSULTING	Certified Industrial Hygienist: MABBETT & ASSOCIATES, INC.	Approved: Project Director		Location 1400 Black Horse Hill, Coatesville, PA		Drawing Number P-001
410 E. 21 STREET CHESTER, PA 19013 Tel (610) 972-9716						1261 ROMANVILLE RD. COATESVILLE, PA 19020 Tel (610) 383-4660	180 WEST RIDGE PIKE LUMERICK, PA 19462 Tel (610) 329-6559	1010 KINGS HIGHWAY, S CHERRY HILL, NJ 08034 Tel (856) 459-4000	410 E. 21 STREET CHESTER, PA 19013 Tel (610) 972-9716	5 ALFRED ORCLE BEDFORD, MA 01730 Tel (800) 877-6600	Date APR 22, 2017		Checked GE		Drawn pd



100% CONSTRUCTION DOCUMENTS

1	ADDENDUM #1	08/28/2017
NO.	Revisions	Date

CONSULTANTS:					
Project Manager:	Architect:	Structural Engineer:	MEP/FP Engineer:	Cost Estimator:	Certified Industrial Hygienist
BRAY MOONEY CONSULTING	WILLIAM COOK ARCHITECTURE & PLANNING	WZG, Inc.	MILLER-REMICK, LLC	BRAY MOONEY CONSULTING	MABBETT & ASSOCIATES, INC.
410 E. 21 STREET CHESTER, PA 19013 Tel: (610) 872-3716	1251 ROMANVILLE RD. COATESVILLE, PA 19320 Tel: (610) 383-4550	180 WEST RIDGE PIKE LIMERICK, PA 19452 Tel: (214) 329-6559	1010 KINGS HIGHWAY, S. CHERRY HILL, NJ 08034 Tel: (856) 459-4000	410 E. 21 STREET CHESTER, PA 19013 Tel: (610) 872-3716	5 ALFRED CIRCLE BEDFORD, MA 01730 Tel: (800) 877-6500

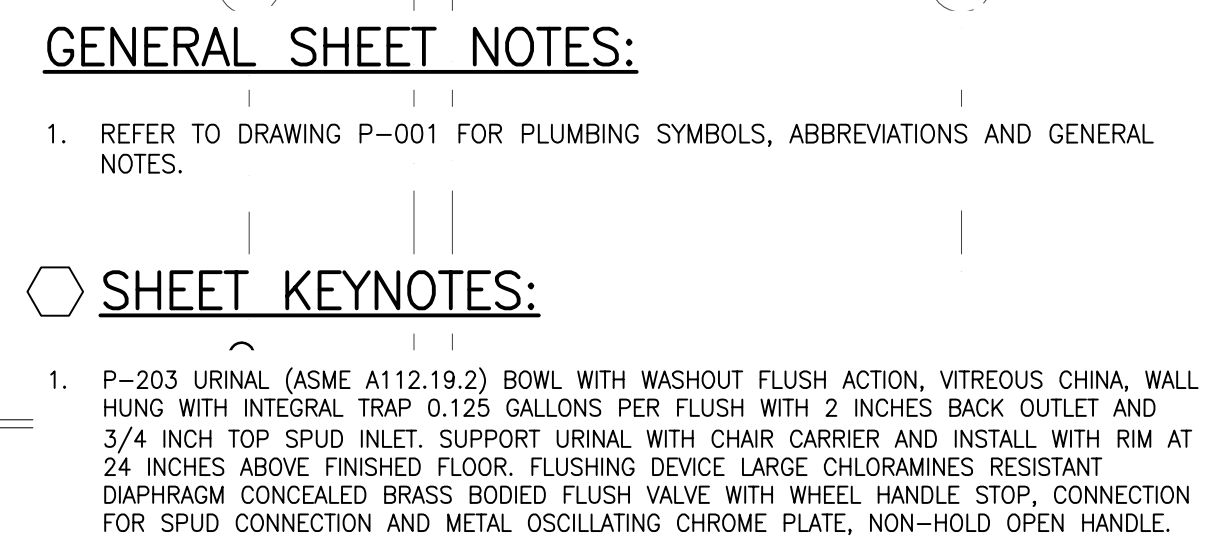
PROJECT MANAGER:		Project Number	Scale
		13901	As Indicated

Drawing Title
GROUND FLOOR - BOILER PLANT PLUMBING DEMOLITION
Approved: Project Director

Project Title
RENOVATE BUILDING 14 BOILER PLANT
Location
1400 Black Horse Hill, Coatesville, PA
Date
APR 22, 2017

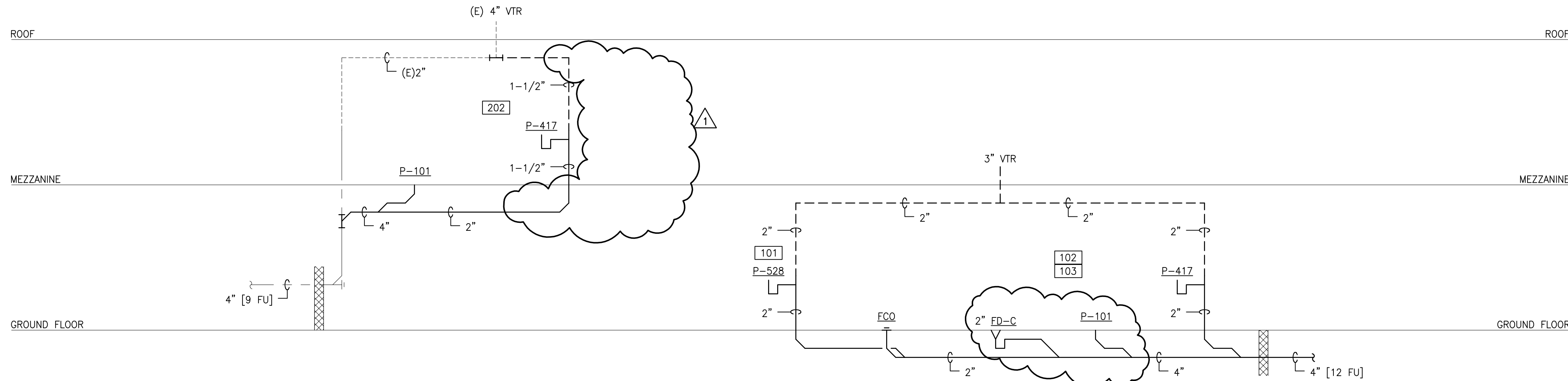
VA Project Number
542-10-104
Building Number
14
Drawing Number
PD-101
Dwg. of

Office of Facilities Management
Department of Veterans Affairs

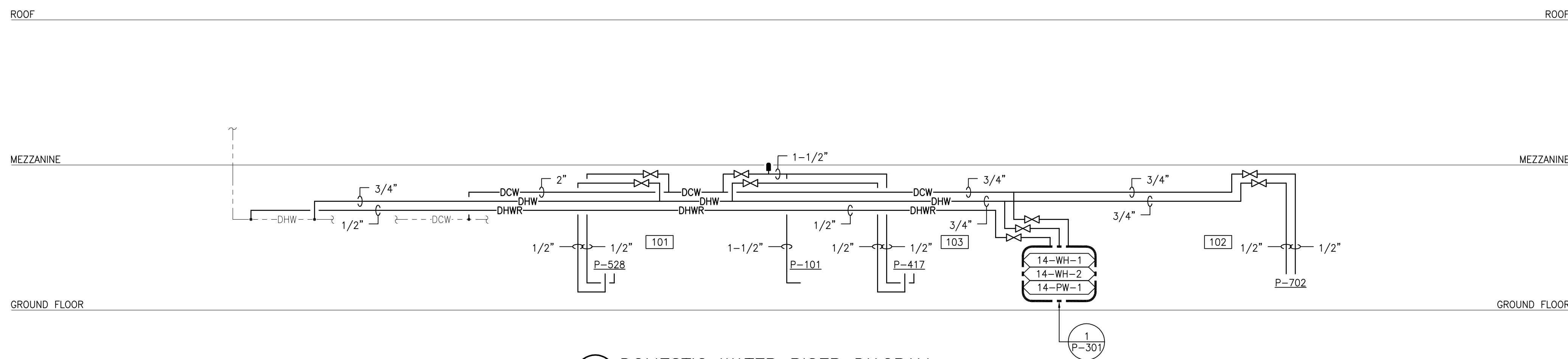


1 GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

			CONSULTANTS:						PROJECT MANAGER:		Project Number 13901	Scale As Indicated	Drawing Title GROUND FLOOR – BOILER PLANT PLUMBING	Project Title RENOVATE BUILDING 14 BOILER PLANT	VA Project Number 542-10-104	Office of Facilities Management	
			Project Manager: BRAY MOONEY CONSULTING		Architect: WILLIAM COOK ARCHITECTURE & PLANNING	Structural Engineer: WZG, Inc.	MEP/FP Engineer: MILLER-REMICK, LLC	Cost Estimator: BRAY MOONEY CONSULTING	Certified Industrial Hygienist: MABBETT & ASSOCIATES, INC.	Approved: Project Director		Location 1400 Black Horse Hill, Coatesville, PA	Building Number 14	Drawing Number PL-101			
1																	



5 SANITARY WASTE RISER DIAGRAM
SCALE: NONE



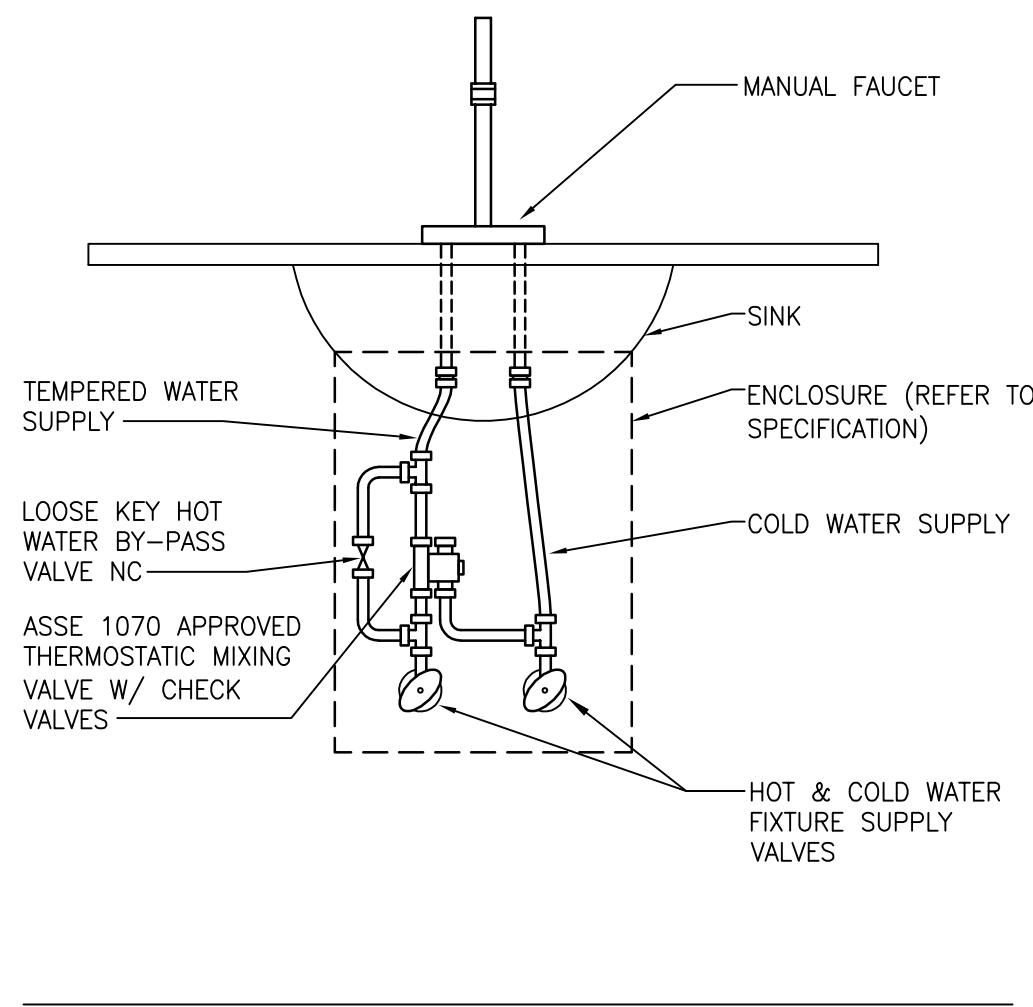
4 DOMESTIC WATER RISER DIAGRAM
SCALE: NONE

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	REMARKS
		IN	IN	IN	IN				
P-101	WATER CLOSET	4	2	1.25		6	10	N/A	FLOOR MOUNTED
P-417	LAVATORY	1.5	1.5	.5	.5	1		NO	COUNTERTOP, WITH WATER TEMPERATURE LIMITING DEVICE
P-528	PANTRY SINK	1.5	1.5	.5	.5	3	2	NO	COUNTERTOP, WITH WATER TEMPERATURE LIMITING DEVICE
P-702	SHOWER	2	1.5	.5	.5	2	2	N/A	WITH WATER TEMPERATURE LIMITING DEVICE

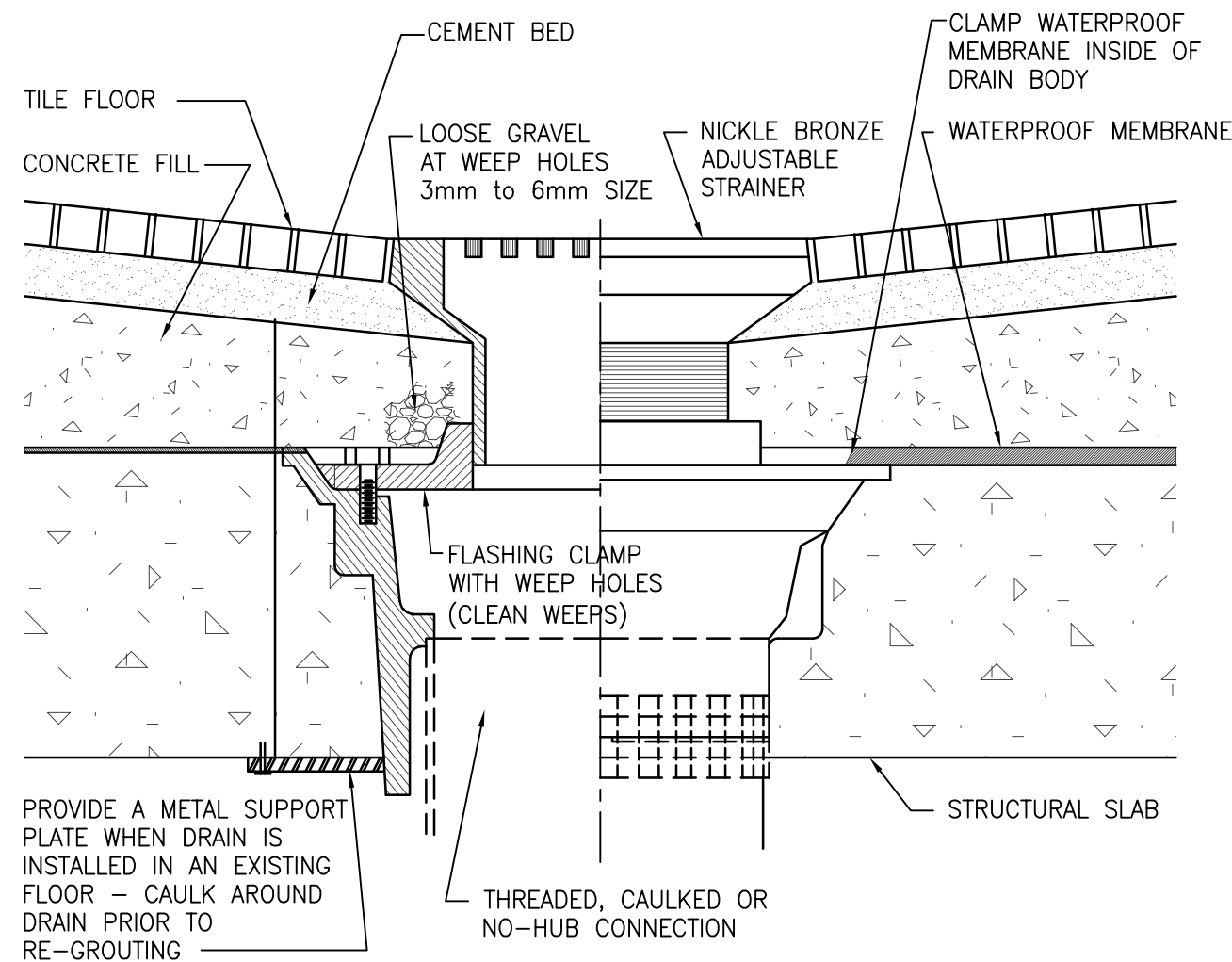
NOTE: PLUMBING FIXTURES TO HAVE EPA WATER SENSE LABEL

GAS FIRED WATER HEATER SCHEDULE															
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	STORAGE CAPACITY	RECOVERY @ 65° F RISE	TIME TO RECOVER CONTENTS, MINUTES	RELIEF VALVE SETTING	FUEL			ELECTRICAL			REMARKS
					GAL	GPM		TYPE	INLET PRESSURE	FLOW	NOMINAL POWER	PHASE	VOLT		
14-WH-1	RM 103	BLDG 14	DOMESTIC HOT WATER	TANKLESS	NA	5.8	NA	100	NATURAL GAS	10	199	NA	1	120	---
14-WH-2	RM 103	BLDG 14	DOMESTIC HOT WATER	TANKLESS	NA	5.8	NA	100	NATURAL GAS	10	199	NA	1	120	---

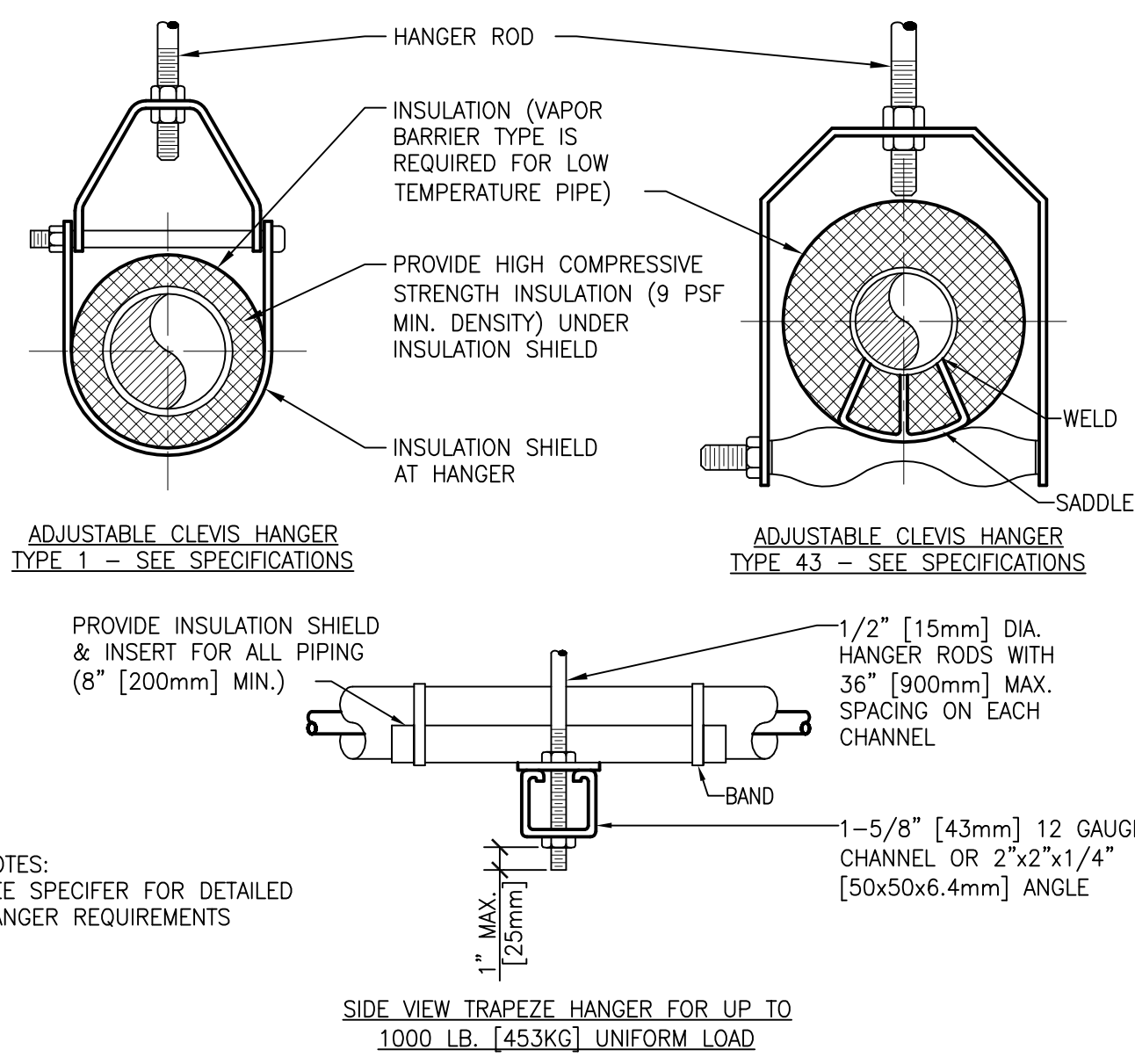
PLUMBING PUMP SCHEDULE																	
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID							ELECTRICAL MOTOR					REMARKS
					FLUID	FLOW	HEAD	NPSH AVAILABLE	TEMPERATURE	SP. GR.	MIN. % EFF	NOMINAL POWER	PHASE	VOLT	MAX RPM	SPEED CONTROL	
						GPM	FT	FT	'F								
14-PW-1	RM 103	BLDG 14	DOM HW CIRCULATION	CENTRIFUGAL	POTABLE WATER	1	9	NA	180	1	70	0.1	1	115		CONSTANT	AQUASTAT CONTROLLED



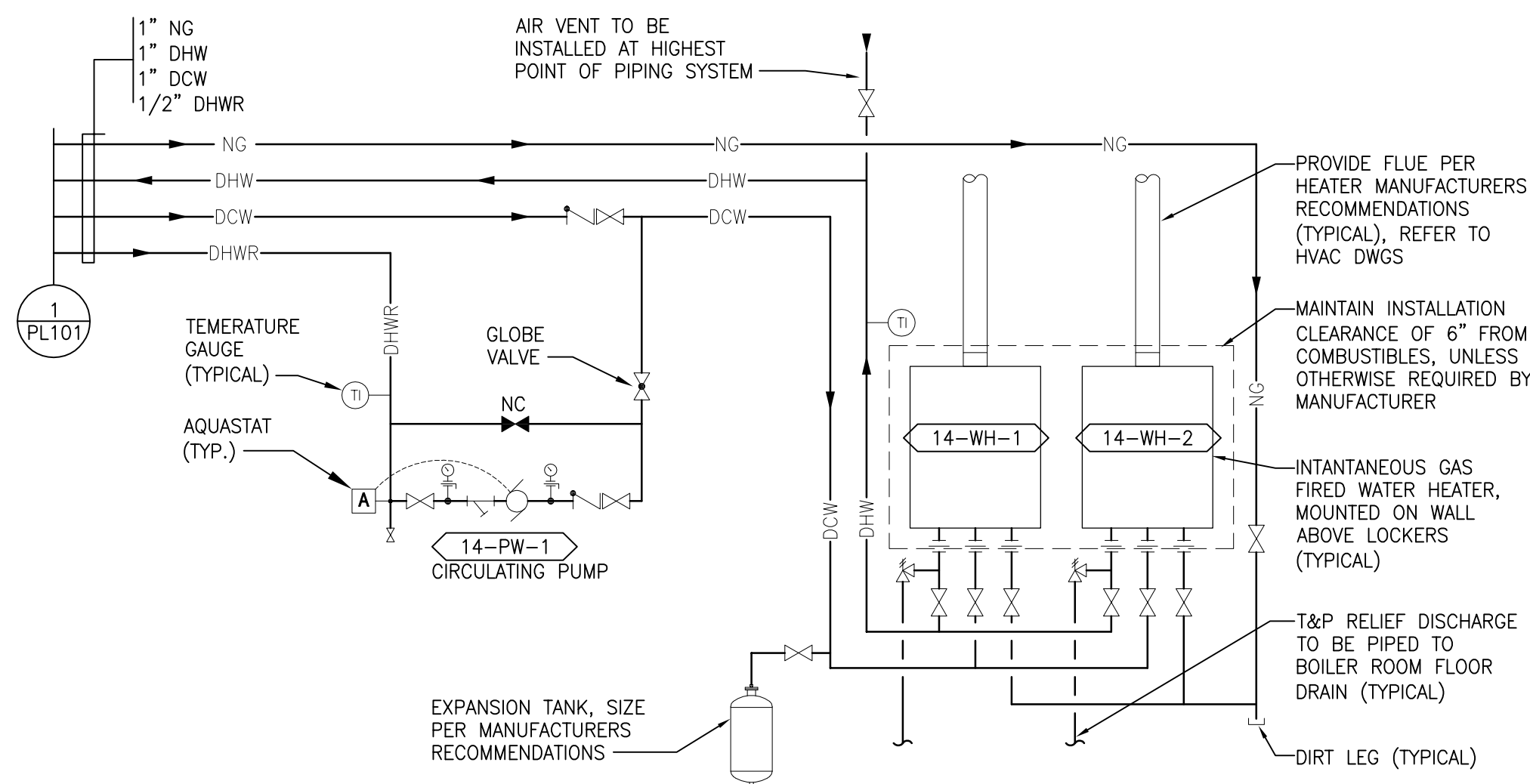
4 TYPICAL FAUCET PIPING DETAIL
SCALE: NONE



3 TYPE "C" FLOOR DRAIN DETAIL
SCALE: NONE




2 TYPICAL PIPE HANGER DETAIL
SCALE: NONE



1 INSTANTANEOUS GAS FIRED WATER HEATER DETAIL
SCALE: NONE

100% CONSTRUCTION DOCUMENTS

			CONSULTANTS:						PROJECT MANAGER:			Project Number 13901		Scale As Indicated		Drawing Title PLUMBING RISER DIAGRAMS, DETAILS AND SCHEDULES			Project Title RENOVATE BUILDING 14 BOILER PLANT			VA Project Number 542-10-104		Office of Facilities Management		
			Project Manager:		Architect:		Structural Engineer:		ME/FP Engineer:		Cost Estimator:		Certified Industrial Hygienist		Approved: Project Director			Location 1400 Black Horse Hill, Coatesville, PA			Building Number 14		Drawing Number P-301			
			BRAY MOONEY CONSULTING		WILLIAM COOK ARCHITECTURE & PLANNING		WZG, Inc.		MILLER-REMICK, LLC		BRAY MOONEY CONSULTING		MABBETT & ASSOCIATES, INC.											Dwg. of		
			410 E. 21 STREET CHESTER, PA 19013 Tel: (610) 872-3716		1251 ROMANVILLE RD. COATESVILLE, PA 19320 Tel: (610) 383-4550		180 WEST RIDGE PIKE LIMERICK, PA 19422 Tel: (610) 329-6559		1010 KINGS HIGHWAY S. CHERRY HILL, NJ 08034 Tel: (856) 459-4000		410 E. 21 STREET CHESTER, PA 19013 Tel: (610) 872-3716		5 ALFRED CIRCLE BEDFORD, MA 01730 Tel: (800) 877-6500					Date APR 22, 2017			Checked GE		Drawn pd		 Department of Veterans Affairs	
1 NO.			ADDENDUM #1 Revisions			08/28/2017 Date																				