PLUMBIN	IG P	IPE LEGEND
DESCRIPTION	TAG	LINETYPE
COLD WATER	CW	
CONDENSATE	CD	
FIRE	F	
FORCED MAIN	FM	
GAS	G	
HOT WATER	HW	
IRRIGATION	IR	
MEDICAL AIR	MA	
MEDICAL VACUUM	VAC	——·-
SANITARY SEWER	SS	
VENT	V	

F	PLUMBING SYM	IBOL LEGE	ND
D.F.U.	DRAIN FIXTURE UNITS	^	HEAT TAPE
GPM	GALLONS PER MINUTE	-#-	FROST PROOF HOSE BIBB (FPHB-1)
F.L.	FLOW LINE INVERT	© FD-1	FLOOR DRAIN
M	WATER/GAS METER	SWD-1	SAFE WASTE DRAIN
R	REGULATOR	X	FLOOR SINK
	PRESSURE REDUCING VALVE	WCO-1/ SCO-1	WALL CLEAN OUT/ STACK CLEAN OUT
\sim	CONTINUATION	□ FCO	FLOOR CLEANOUT
-15-	BALL VALVE	© COTG-1/ TWCO-1	CLEAN OUT TO GRADE/ TWO-WAY CLEAN OUT
	MIXING VALVE	(X)	ICATES DETAIL NUMBER ICATES SHEET NUMBER
UB-1/ SB-1	UTILITY BOX/ SUPPLY BOX	HOR. OR VERT.	BACKFLOW PREVENTER (RPZ-1)

GENERAL PLUMBING NOTES

ROUGH-IN AND MOUNTING HEIGHT SCHEDULE

4. VENT LINES SHALL RISE 6" ABOVE FLOOD LEVEL RIM BEFORE OFFSETTING HORIZONTALLY, EXCEPT FOR INTERCEPTORS LOCATED OUTDOORS.

WASTE VENT COLD HOT WATER WATER

1-1/2"

1-1/2" 1-1/2" 1/2" 1/2"

1/2"

PIPING MATERIAL SCHEDULE

PVC SCHEDULE 40 PIPE AND FITTINGS.

PLUMBING PIPING INSULATION SCHEDULE

INSULATION TYPE

CAST IRON BODY, ANCHOR FLANGE, SECURED ROUND ADJUSTABLE STRAINER HEAD WITH HOLE GRATE, LOOSE

CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM,

BRACKET 65.700, MOP HANGER 65.600, BUMPER GUARDS 63.401, WALL GUARDS 2 PANELS & 1 BRACKET 67.2424,

SUPPLIED W/ CAST BRASS DRAIN, PROVIDE CHECK VALVES ON HOT AND COLD WATER LINES IN AN ACCESSIBLE

UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON

SUBMERSIBLE TYP PUMP, CONTROLS AND ALARM. 15 FOOT POER CORD, 2" OUTLET, CAPABLE OF 50 GPM AT 20 PUMP: 115V, 60HZ, 1PH,

PROVIDE SERVICE FAUCET # 63.600A CHROME PLATED BRASS ON 8" CENTER W/ VACUUM BREAKER, HOSE

WITH PVC OR HDPE JACKET

GRATE AND SEDIMENT BUCKETS, MIFAB TRAP GUARD, REFER TO PLANS FOR SIZES

LOOSE GRATE, ALUMINUM DOME BOTTOM STRAINER, GRATE, MIFAB TRAP GUARD

STANDARDS LISTED IN TABLE 605.3 OF THE I.P.C

SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS.

REPUBLIC "X-TRU-TAPE" OR EQUAL. PROVIDE WITH MARKER TAPE.

HEIGHT OF INSTALLATION

MIXING VALVE HANDLE AT 38" MIN. & 48" MAX. A.F.F.

* ALL DIMENSIONS TO CENTERLINE OF SHOWER HEAD,

INSULATION THICKNESS

NOMINAL PIPE SIZE

<4

1.5

1.5 1.5

ELECTRICAL

REQUIREMENTS

1/2HP, 1750 RPM CONTROLS: OIL SMART

ALARM 115V

1 TO 1-1/2 TO

SHOWERS LOCATED ON BACKWALL SHALL BE LOCATED

ALL ROLL-IN SHOWERS WITH CONTROLS AND HAND

WITHIN 15" LEFT OR RIGHT OF CENTERLINE

(STANDARD AND ADA)

SHOWER HEAD:

STANDARD 78"

APPROVED PLASTIC WITH COMPATIBLE FITTINGS CONFORMING WITH ASTM D 2513 AND SHALL BE

WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL BE COPPER AND CONFORM TO THE

<1-1/2

INSTALLED IN ACCORDANCE WITH GAS CODE OR WITH SCH. 40 STEEL WITH MALLEABLE IRON

FITTINGS OR WELDED JOINTS WITH BUTT WELD FITTINGS. MILL COAT PIPE WITH HIGH DENSITY

POLYETHYLENE OVER ADHESIVE UNDERCOATING WRAP FIELD JOINTS AND FITTINGS WITH

1. ALL VENT LINE SIZES SHOWN ARE MINIMUM UNLESS SHOWN LARGER ON RISER DIAGRAMS.

2. SIZES SHOWN FOR WASTE ARE FOR RISERS ONLY.

FIXTURE

DESCRIPTION

UNDERGROUND SANITARY SEWER AND VENT PIPING

DESCRIPTION

DOMESTIC COLD WATER PIPING BELOW GRADE PVC OR HDPE JACKET ONLY, NO

DOMESTIC HOT WATER AND HOT WATER RETURN | ELASTOMERIC OR FOAM. ENCAPSULATE

FEET, CHECK VALVE, OIL SMART PUMP SWITCH AND ALARM.

TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES

BACKFLOW PROTECTED, AUTOMATIC DRAINING, FREEZELESS YARD HYDRANT

INSIDE BUILDING AND OUTSIDE BUILDING

FLOOR DRAINS/SINKS

JANITOR'S SINK

FORCED MAIN PIPING

UNDER GROUND GAS

WATER SERVICE PIPE

PIPING BELOW GRADE

MANUFACTURER

MUSTEE CUSTODIAL FLOOR SINK

F1000-S

3150

J. R. SMITH

MODEL 63M

1411-OSS

J. R. SMITH

WOODFORD

MODEL Y2

FIXTURE

TAG

FLOOR DRAIN-SQUARE

12-1/2" CAST IRON RECEPTOR, 8" DEEP

TWO WAY CLEANOUT, SPEEDI-SET OUTLET

FLOOR SINK

SUMP PUMP

YARD HYDRANT

JANITOR'S SINK,

FLOOR MOUNTED

AND POLYESTER RESIN

DESCRIPTION

24"x 24", ONE PIECE MOLDED CONSTRUCTION OF NATURAL CRUSHED STONE

PLUMBING EQUIPMENT SCHEDULE

3. ALL DRAIN AND VENT LINES BELOW SLAB SHALL BE 2" OR LARGER.

5. SIZES SHOWN APPLY UNLESS NOTED DIFFERENTLY ON PLANS.

- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE REGULATIONS AND LOCAL PLUMBING INSPECTOR. THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATICAL. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC.
- THE CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
- ALL DOMESTIC WATER, NATURAL GAS, COMPRESSED AIR, AND VACCUM PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, AND WITHIN WALLS UNLESS OTHERWISE NOTED. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT DISHWASHERS, WASHING MACHINES, SUPPLY BOXES, AND QUICK CLOSING VALVES NOT LISTED. INSTALL WHA-1 AS CLOSE TO QUICK CLOSING VALVE AS POSSIBLE PER MANUFACTURES RECOMMENDATIONS. ISOLATION VALVES SHALL BE INSTALLED ON ALL SUPPLY FIXTURE GROUPS AND HOT WATER BALANCING VALVES.
- FROST PROOF HOSE BIBBS AND SUPPLY PIPING SHALL BE INSTALLED ON THE INSIDE OF THE INSULATION. SEAL SHEATHING PENETRATION TO PREVENT AIR FROM REACHING THE VALVE.
- ALL SANITARY WASTE PIPING SHOWN IS BELOW SLAB, BELOW FLOOR, OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, OR WITHIN WALLS UNLESS OTHERWISE NOTED.
- FLOOR DRAINS ARE TO BE THE SAME SIZE AS THE DRAIN LINE IT CONNECTS UNLESS NOTED OTHERWISE. IF SIZE IS NOT INDICATED ON DRAWINGS REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PROPER SIZE.
- FLUSH CONTROLS FOR HANDICAPPED WATER CLOSETS ARE TO BE MOUNTED TO THE OPEN SIDE OF THE TOILET AREAS.

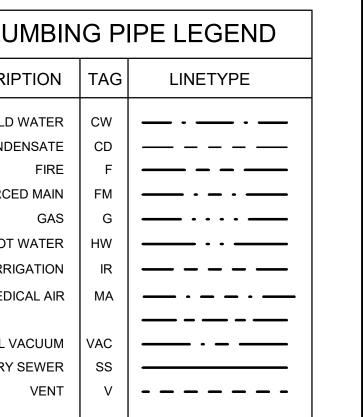
CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING

FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF

ALL PIPING ON ROOF SHALL BE ANCHORED TO STEEL RIB FASTENERS APPROVED BY THE ROOF MANUFACTURER. INSTALL ANCHORS PER MANUFACTURERS RECOMMENDATION. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION

ALL PLUMBING RELATED ITEMS.

- OF THE NEW UNDERGROUND PIPING. ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS.
- ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR. THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY LOCAL CODE OR BY THE
- REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR. THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS. DOMESTIC WATER AND SEWER LOCATED OUTSIDE OF FOOTING SHALL MAINTAIN A MINIMUM
- OF 10' SEPARATION UNLESS WRITTEN PERMISSION IS OBTAINED FROM LOCAL AUTHORITIES AND/OR PROPER CONTAMINATION PROVISIONS PER LOCAL CODE HAVE BEEN MET. FINISHED FLOOR ELEVATION (F.F.E.) SHALL BE 0.00' FOR CALCULATION PURPOSES ONLY, UNLESS NOTED OTHERWISE.
- THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS. NON-LEAD TYPE ONLY. ALL VENT THRU ROOF (VTR'S) PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY.
- FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS. ANY PVC PIPE PENETRATING A FIRE RATED ASSEMBLY SHALL BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED
- ASSEMBLY. ANY SPACE BETWEEN THE SLEEVE AND THE FIRE RATED ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900 OR FLAME STOPPER 5000. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR DISHWASHER, WASHING MACHINE,
- REFRIGERATOR, ETC. PROVIDE SHUT-OFF VALVES FOR PROPER OPERATION AND SERVICING OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- AT EACH FIXTURE GROUP. AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE BASE OF EACH RISER. COORDINATE WITH ARCHITECTURAL PLAN FOR ACCESS DOOR LOCATIONS. VALVES SHALL BE LOCATED 6" ABOVE ACCESSIBLE CEILING WHEN AT ALL POSSIBLE AND SHALL BE CLEAR OF ANY OBSTRUCTIONS FROM OTHER TRADES. MAINTENANCE SHALL BE ABLE TO ACCESS VALVES WITH STANDARD LADDER. SHOULD LOCATION NOT BE APPLICABLE
- CONTRACTOR SHALL PROVIDE A CONTROL CHAIN AND/OR ARM. TEMPERED WATER, NOT EXCEEDING A MAXIMUM OF 110° F, SHALL BE DELIVERED FROM PUBLIC HANDWASHING FACILITIES THROUGH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070.
- 26 IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERTS AND LOCATIONS OF THE BUILDING UTILITIES ARE COMPATABLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK.
- 27 CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV-1) SHOULD THE WATER PRESSURE EXCEED 75 PSI. CONTRACTOR SHALL CONFIRM WITH ON SITE CONDITIONS AND
- 28 ALL GAS PIPING ON ROOF SHALL BE PAINTED YELLOW, TYPICAL.



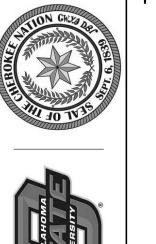
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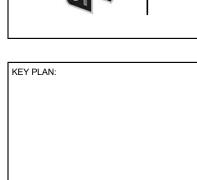
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PROFESSIONAL SEAL:





PROJECT PHASE:

BID PACKAGE 04 REVISIONS DESCRIPTION # DATE

JOB NUMBER: 17-13 05-10-19 SHEET NUMBER:

PLUMBING DETAILS, LEGNEDS, NOTES AND SCHEDULES

12.0 BELOW GRADE SLABS

<u>All</u> slabs that are below exterior grade are considered below grade slabs. This condition is anticipated within the south half of the project site within the basement area. In addition, any elevator pits, recessed mats, floor depressions, etc., are considered below grade slabs and the following recommendations do apply to these areas.

Although shallow groundwater was not encountered within the borings drilled, site earthwork can, and often does, manipulate the shallow groundwater regime. In view of the possibility for perched groundwater at the project site, it is recommended that any portions of the structure below exterior grade, as described above, be designed and constructed recognizing the possibility of shallow groundwater. A French drain system should be installed under the below grade floor slabs to limit hydrostatic pressure below the slab. A drainage system constructed with coarse free-draining gravel with a minimum 6-inch thickness and perforated pipes wrapped in filter fabric and installed on 30-ft. centers below the free draining gravel is considered adequate. Groundwater collected by these perforated pipe drains should be removed to free discharge by gravity flow. If gravity flow cannot be provided a sump and pump system consisting of a wet well with a duplex pump arrangement is recommended. At least one (1) pump should turn on when groundwater levels are more than 24-inches below finish floor elevation.

A French drain should be installed underneath <u>all</u> below grade slabs. Lateral drain pipes installed on 30-ft. centers should be at least 4-inches in diameter, with perimeter collector pipes at least 6-inches in diameter. An impervious moisture barrier consisting of 6-mil. plastic sheeting or equivalent should be provided below all slab areas. A minimum 10-mil plastic sheeting is recommended beneath all slab areas with an intended use sensitive to slab moisture. Soil moisture should not be allowed to dry and desiccate or be saturated by inundation prior to slab placement.

12.1 Retaining Wall Backfill & Drainage

A foundation drain is recommended to be installed around the portion of the perimeter where the below grade slab is at or below exterior grade level in

accordance with Section 1805 of the 2015 IBC. Below grade wall backfill should consist of free-draining crushed stone or alternatively, may consist of gravelly clays or clayey gravels. Crushed stone, if selected, must be imported from a quarry source whereas on-site soils suitable for wall backfill could probably be segregated and stockpiled during excavation. Depending upon the type of backfill selected and degree of wall restraint, the following table of lateral earth pressures are considered appropriate for wall design. If a building floor slab is planned over the wall backfill, use of an imported free draining stone should be separated from the earth face of the excavation by using a nonwoven filter fabric.

8.8 Utility Trenches

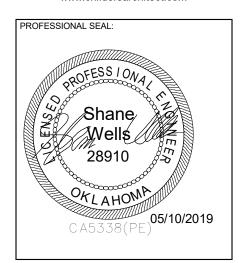
New utility trenches servicing the new structures are anticipated to be required. These trenches are often times sources of moisture migration into the structure. A relatively impervious material (clay with little rock, etc.) should be placed within the utility trench, surrounding the utility immediately outside the structure to reduce the potential for moisture migration into the structure via utility trenches. The "trench plug" should extend out from the structure a minimum of 5 ft. horizontally, and be placed in a controlled manner in accordance with Section 8.3 above.

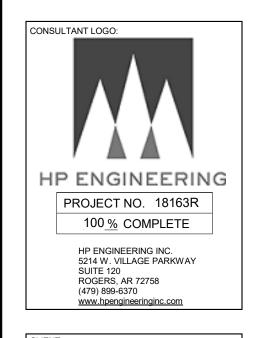
8.3 Compaction Requirements

ltem	Description	
Subgrade Scarification Depth	At least 8 inches	
Fill Lift Thickness	12-inches (loose) using the minimum compactor referenced below	
Compaction Requirements ¹	Six (6) passes (3 each direction) minimum using a self-propelled vibratory compactor with a minimum drum diameter of 48-inches for granular soils, or 95% Standard Proctor Density (ASTM D698) for materials containing sufficient fines content.	
Moisture Content	 ± 2% optimum moisture for CL, SC, GC, GW & SW Soil Types; and 0 to 4% above optimum for CH Soil Types. 	
Field Density Testing Frequency (if material type allows)	 Building Areas – One (1) test every 2500 sq. ft. per fill lift; Pavement Areas – One (1) test every 5000 sq. ft. per fill lift; and No less than three (3) tests per each fill lift. 	

 We recommend that engineered fill (including scarified compacted subgrade) be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.













KEY PLAN:

PROJECT PHASE:
BID PACKAGE 04

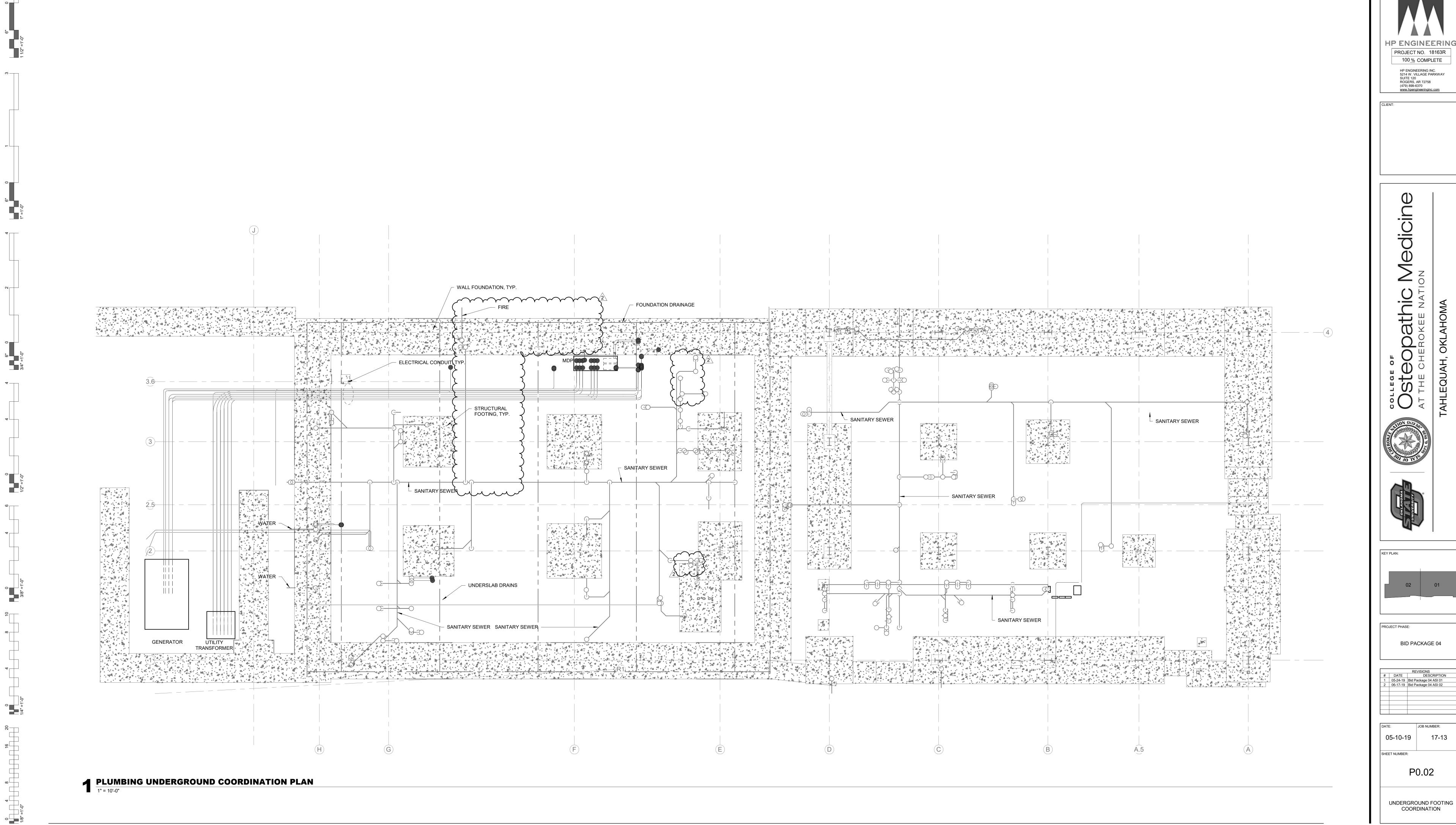
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DATE: JOB NUMBER: 17-13

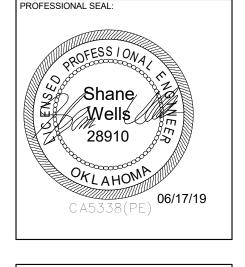
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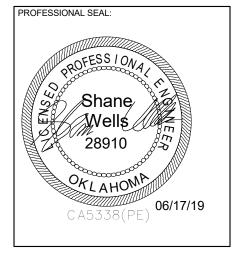
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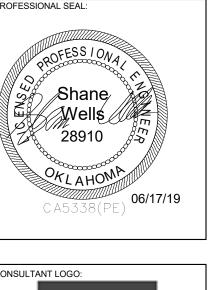
UNDERGROUND PLUMBING NOTES



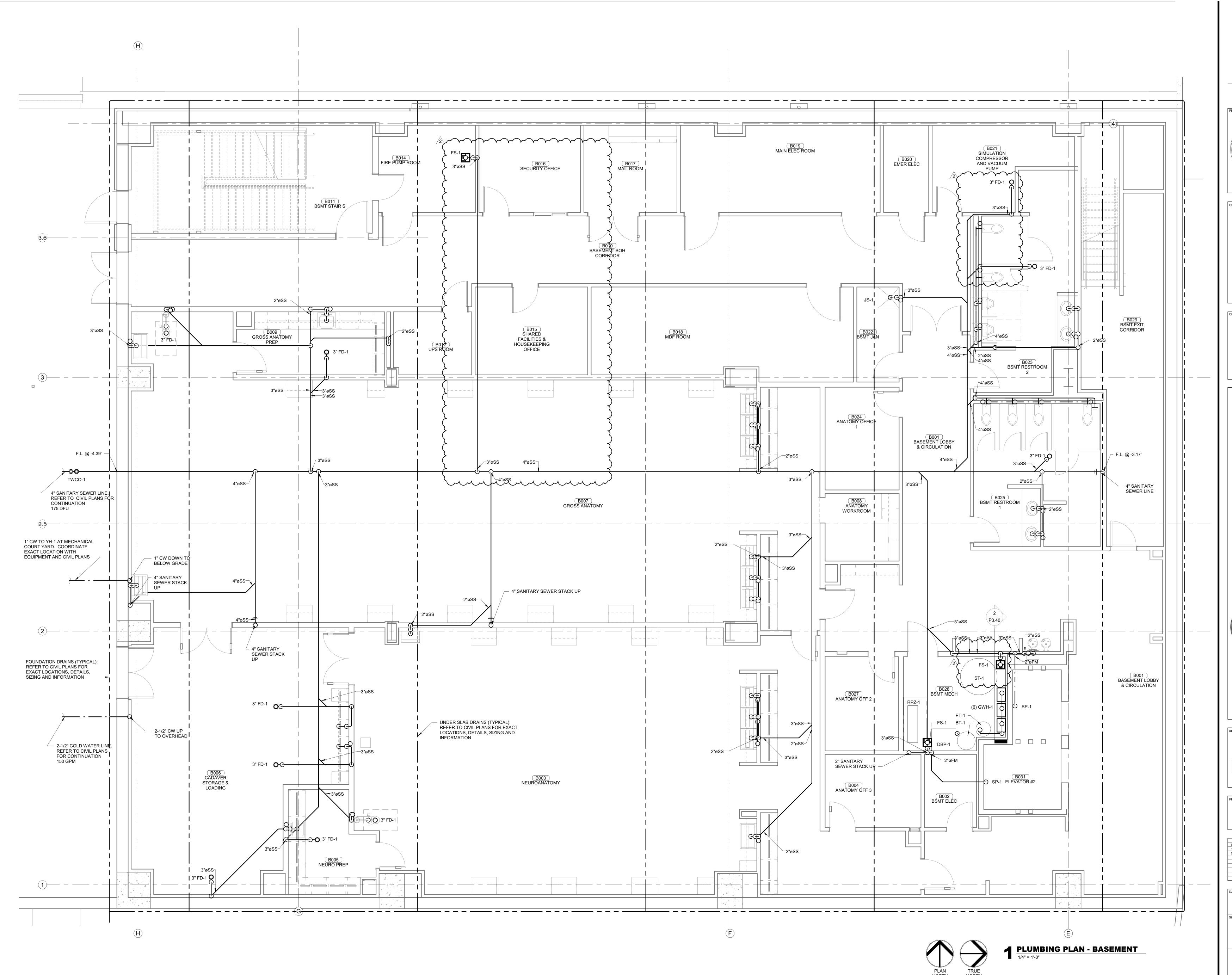
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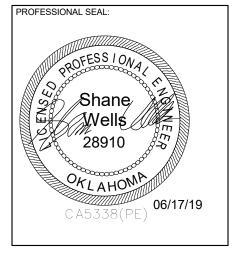


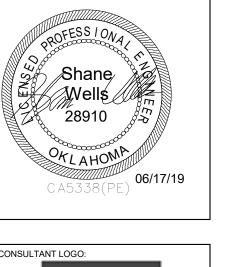


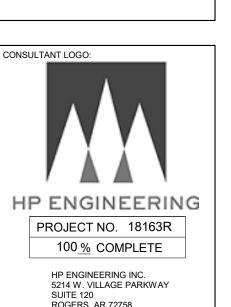
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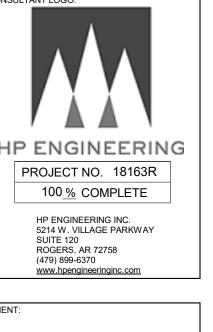


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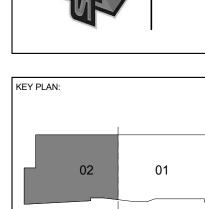


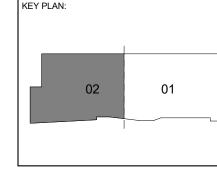














		REVISIONS
#	DATE	DESCRIPTION
1	05-24-19	Bid Package 04 ASI 01
2	06-17-19	Bid Package 04 ASI 02

#	DATE	DESCRIPTION
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2	06-17-19	Bid Package 04 ASI 02
DATE	=:	JOB NUMBER:

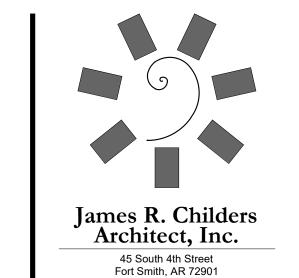
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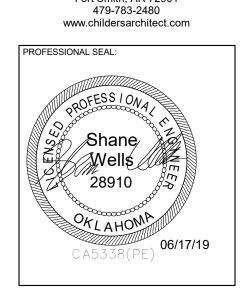
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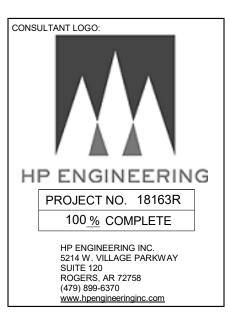
UNDERGROUND BASEMENT PLUMBING PLAN

UNDERGORUND PLUMBING VENT ISOMETRIC

BASEMENT LEVEL

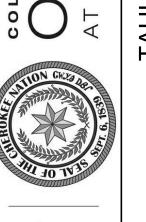




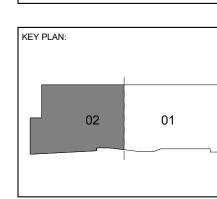




Steopathic Medicine THE CHEROKEE NATION







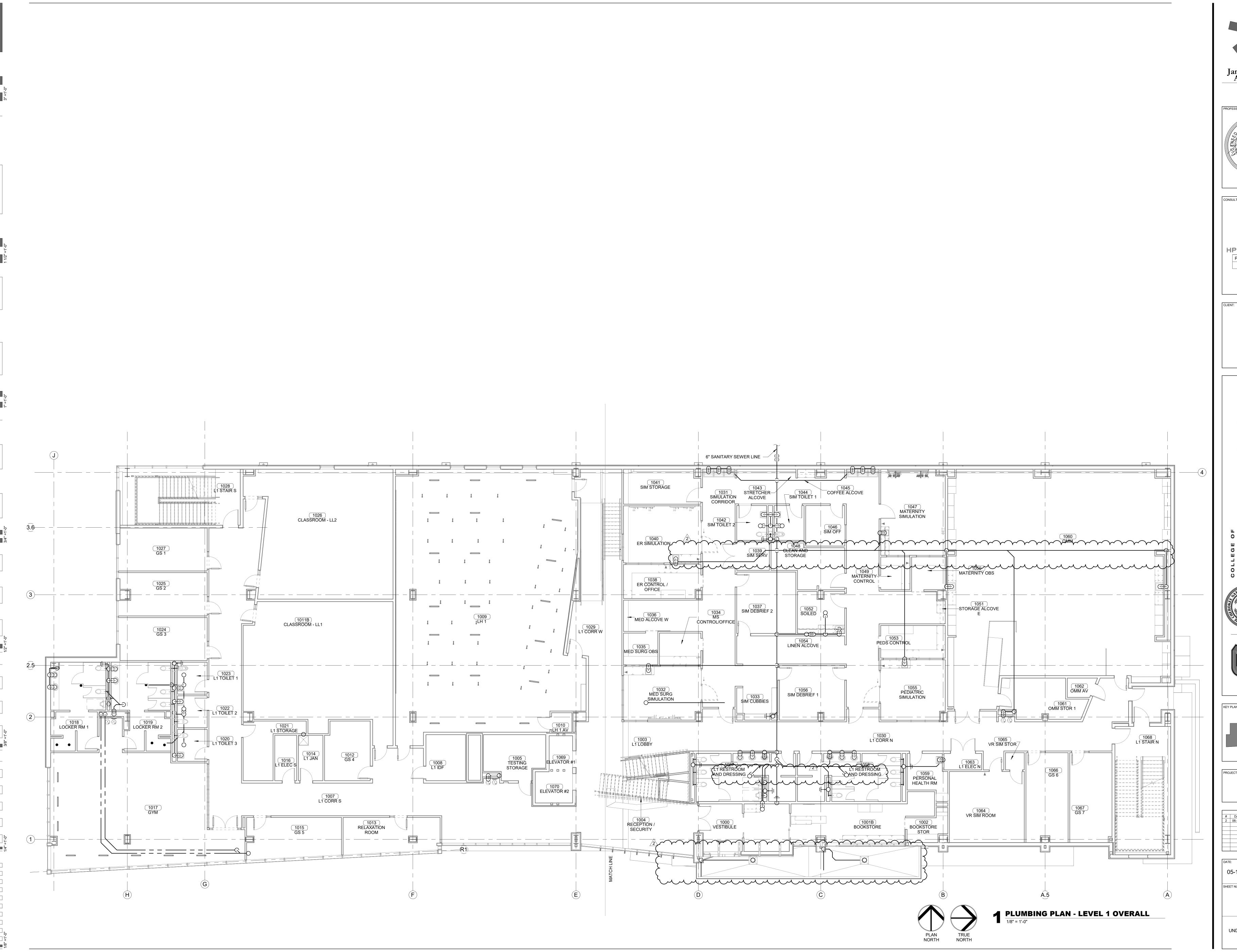
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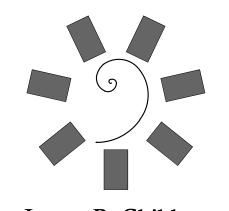
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2	06-17-19	Bid Package 04 ASI 02

DATE:	JOB NUMBER:
05-10-19	17-13
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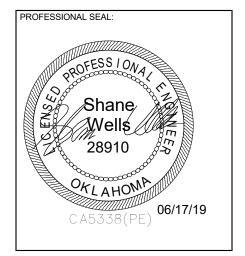
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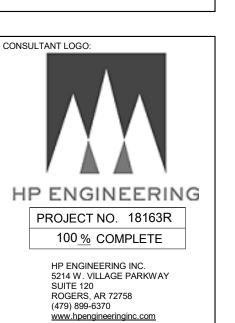
UNDERGROUND PLUMBING VENT/DRAIN ISOMETRIC BASEMENT

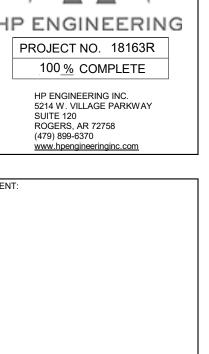




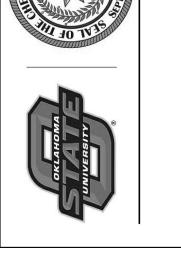
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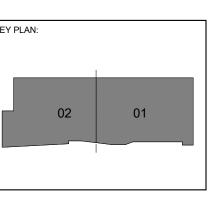


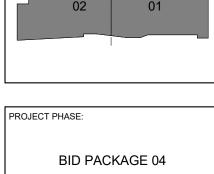


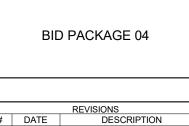










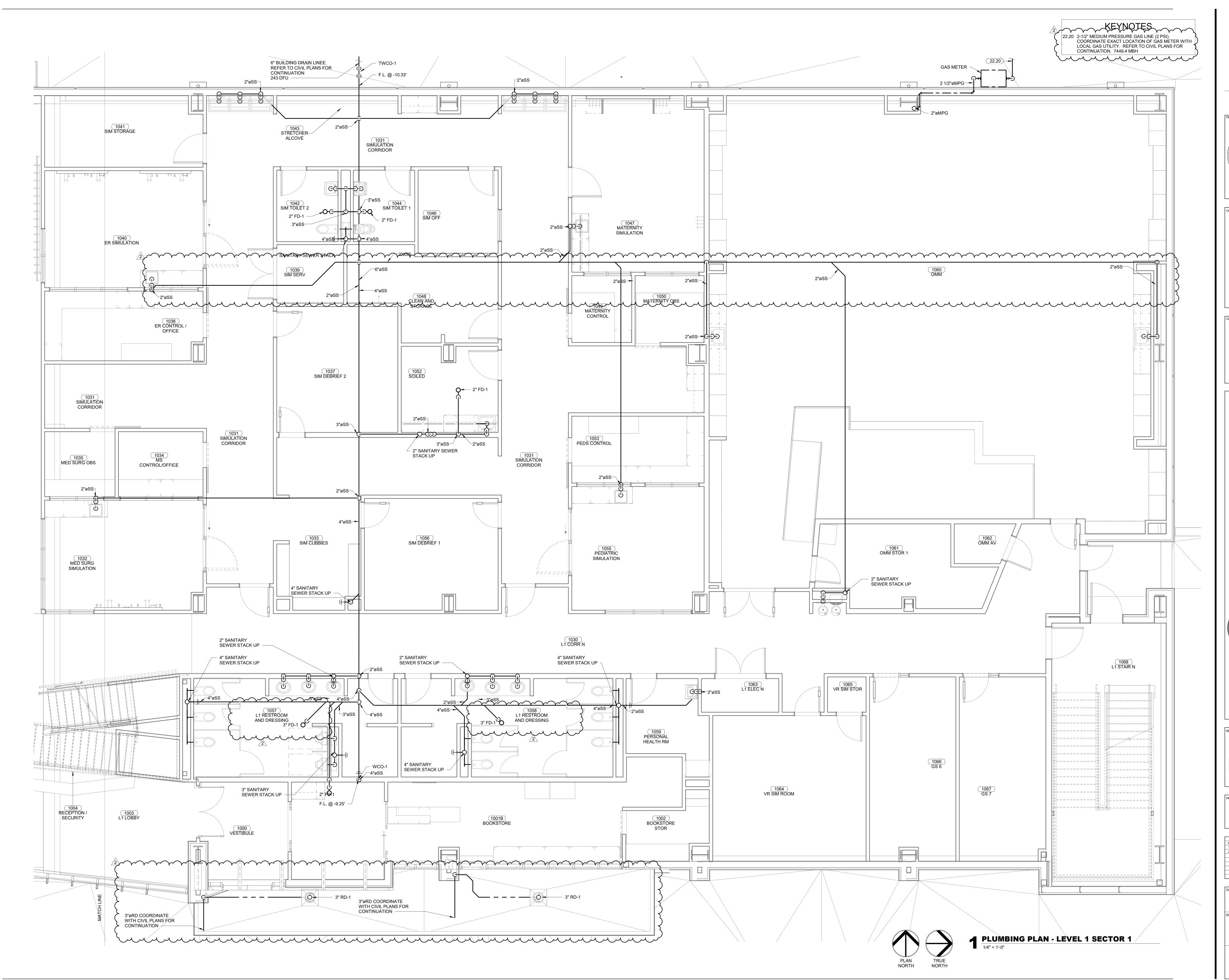


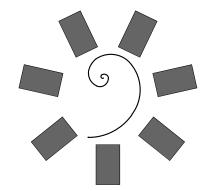
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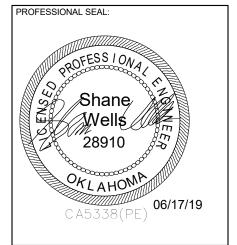
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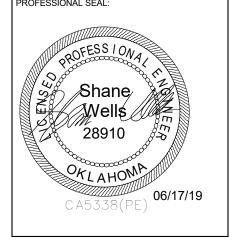
UNDERGROUND LEVEL 01 -OVERALL PLAN

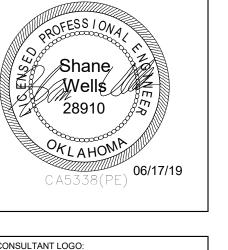


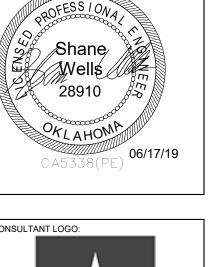


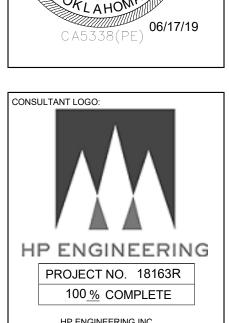
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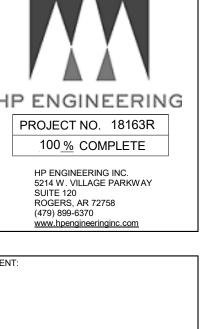






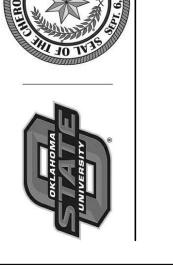


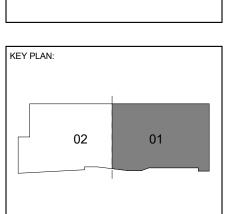


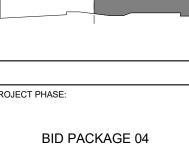












ROJECT PHASE:		
BID PACKAGE 04		

	REVISIONS
DATE	DESCRIPTION
05-24-19	Bid Package 04 ASI 01
06-17-19	Bid Package 04 ASI 02

2	06-17-19	Bid Package 04 ASI 02
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05-10-19 SHEET NUMBER:

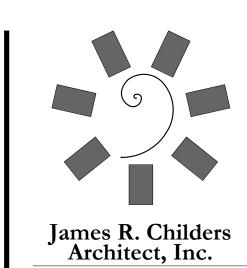
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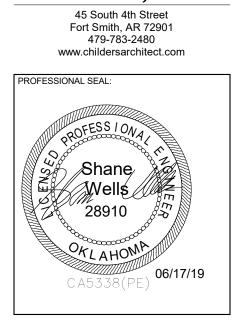
UNDERGROUND LEVEL 01

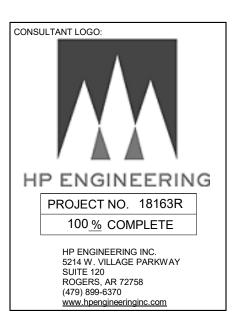
PLUMBING PLAN

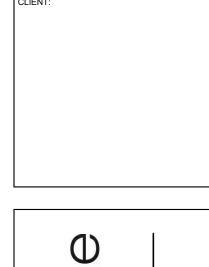
UNDERGROUND LEVEL 01 - PLUMBING VENT ISOMETRIC

- SECTOR 01



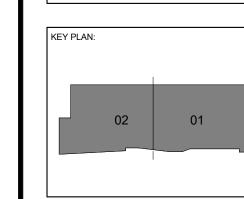














			REVISIONS
	#	DATE	DESCRIPTION
	2	06-17-19	Bid Package 04 ASI 02

DATE:	JOB NUMBER:
05-10-19	17-13
SHEET NUMBER:	

P0.07

UNDERGROUND PLUMBING VENT/DRAIN ISOMETRIC LEVEL 01

1 DOMESTIC BOOSTER PUMP DETAIL SCALE: N.T.S.

GAS LOAD CALCULATION							
GAS LOAD CALCULATION NOTES: GAS LINES HAVE BEEN SIZED AS PER TABLE 402.4(2) OF THE 2006 INTERNATIONAL FUEL GAS CODE FOR PRESSURES OF 2.0 PSI AND A PRESSURE DROP OF 1.0 PSI AND 0.6 SPECIFIC GRAVITY. USING A DISTANCE OF 400 FEET.							
LONGEST RUN			304 (FEET) X 1.25 (FITTING LOSS) = 380 FEET TOTAL DEVELOPED LENGTH				
GAS TYPE:		< 0.5 PSI NATURAL					
EQUIPMENT	M	IBH INPUT (EACH)	QTY	TOTAL MBH INPUT			
	850)	1	850			
RTU-2			_	5400			
	180	00	3	3400			
RTU-2 RTU-1, 3, 4 GWH-1	180		6	1199.4			

PLUMBI	NG PIPING INSULATION	N SC	HEDUL	E		
				LATION THICKNE MINAL PIPE SIZ		
DESCRIPTION	INSULATION TYPE	<1	1 TO <1-1/2	1-1/2 TO <4	4 TO <8	≥8
CONDENSATE PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	0.5	1	1	1	1.5
PVC WASTE VENT AND WASTE DRAIN IN AIR PLENUM SPACE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	0.5	0.5	0.5	0.5	0.5
WATER COOLER TRAPS, ALL EXPOSED LAVATORY AND SINK TRAPS, TAILPIECES, HOT AND COLD WATER SUPPLY LINES/ANGLE VALVES TO THESE DEVICES	EQUIVALENT TO TRUEBRO 102 E-Z PIPE COVER	0.125	0.125	0.125	0.125	0.125
DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	1	1	1.5	1.5	1.5
PVC WASTE DRAIN IN WALLS, AND WASTE VENT IN ALL AREAS ABOVE GRADE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	1"	1"	1.5"	1.5"	1.5"

PIPING MATERIAL SCHEDULE					
DESCRIPTION	MATERIAL				
ABOVE GROUND GAS	SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTT WELD FITTINGS. PROVIDE CORROSION-RESISTANT MATERIAL ON PIPING EXPOSED TO ATMOSPHERE OR IN CONTACT WITH MATERIAL EXERTING A CORROSIVE ACTION				
ABOVE GROUND SANITARY SEWER AND VENT	PVC SCHEDULE 40 PIPE AND FITTINGS EXCEPT IN PLENUM RETURN AREAS. IN PLENUM RETURN AREAS WRAP PVC WITH 1" FIRE WRAP.				
COMPRESSED AIR	ASTM A-53 SEAMLESS GALVANIZED STEEL OR COPPER (300 PSIG WORKING PRESSURE). FITTINGS THREADED SUITABLE FOR 300 PSIG WORKING PRESSURE.				
FLEXIBLE GAS PIPING INSIDE BUILDING	FOR FINAL CONNECTION TO EQUIPMENT ONLY. CORRUGATED STAINLESS STEEL GAS LINE WITH POLYETHYLENE JACKET AND FITTINGS BY MFG. MUST MEET ANSI, NFPA, FACTORY MUTUAL CODE AND LISTINGS AS AN ACCEPTABLE GAS PIPING MATERIAL, ALL STATE AND LOCAL CODE APPROVALS. PROVIDE PIPING EQUAL TO TRACPIPE BY OMEGA FLEX. SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.				
WATER DISTRIBUTION PIPE	WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL BE COPPER AND CONFORM TO THE STANDARDS LISTED IN TABLE 605.4 OF THE I.P.C				

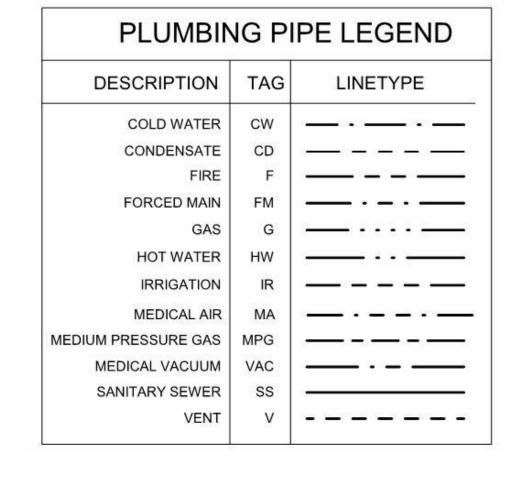
ROUGH-IN AND MOUNTING HEIGHT SCHEDULE								
OTES: ALL VENT LINE SIZES SHOWN ARE MINIMUM UNLE SIZES SHOWN FOR WASTE ARE FOR RISERS ONL ALL DRAIN AND VENT LINES BELOW SLAB SHALL I VENT LINES SHALL RISE 6" ABOVE FLOOD LEVEL SIZES SHOWN APPLY UNLESS NOTED DIFFERENT	Y. BE 2" OR LA RIM BEFORI	RGER. E OFFSETT			CEPT FOR INTERCEPTORS LOCATED OUTDOORS.			
	\\/\CTE	VENIT	COLD	HOT				

FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	HEIGHT OF INSTALLATION
DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"		NON-ADA 40" TO TOP OF ORIFICE ADA 36" TO TOP OF ORIFICE
EYEWASH STATION			1/2"	1/2"	
FLOOR DRAINS/SINKS	2"	1-1/2"			
HOSE BIBB			3/4"		18" ABOVE GRADE OUTSIDE, 18" A.F.F. INSIDE
JANITOR'S SINK	3"	1-1/2"	1/2"	1/2"	
LAVATORIES AND SINKS, COUNTER MOUNTED	1-1/2"	1-1/4"	1/2"	1/2"	
LAVATORIES AND SINKS, WALL MOUNTED	1-1/2"	1-1/4"	1/2"	1/2"	NON-ADA 31" TO TOP OF RIM ADA 34" TO TOP OF RIM
OPEN HUB DRAIN	2"	1-1/2"			PROVIDE 3" PVC REDUCER, MOUNT AT HEIGHT REQUIRED FOR INSTALL LOCATION
SHOWER					MIXING VALVE HANDLE AT 38" MIN. & 48" MAX. A.F.F. (STANDARD AND ADA) SHOWER HEAD: STANDARD 78"
	2"	1-1/2"	1/2"	1/2"	
					* ALL DIMENSIONS TO CENTERLINE OF SHOWER HEAD, ALL ROLL-IN SHOWERS WITH CONTROLS AND HAND SHOWERS LOCATED ON BACKWALL SHALL BE LOCATED WITHIN 15" LEFT OR RIGHT OF CENTERLINE
SUPPLY BOX			1/2"		12" TO BOTTOM OF BOX
URINAL FLUSH VALVE WALL MOUNTED	1-1/2"	1-1/4"	1"		NON-ADA 24" TO TOP OF FLOOD LEVEL ADA 17" TO TOP OF FLOOD LEVEL
UTILITY BOX	2"	1-1/2"	1/2"	1/2"	36" TO BOTTOM OF BOX
WATER CLOSET FLUSH VALVE WALL MOUNTED	3"	1-1/2"	1-1/4"		NON-ADA 15" TO TOP OF BOWL ADA 17" TO TOP OF BOWL
	-		1		

FIXTURE		PLUMBING EQU	IPMENT SCHEDULE ELECTRICA
TAG	DESCRIPTION	MANUFACTURER	TRIM REQUIREMENT R
AC-1 BT-1	AIR COMPRESSOR BOOSTER TANK	OHIO MEDICAL ACS300-208-TI-H80-DD-LAB ELBI	15 LPMX8(OUTLETS)=4.24 CFM, SIMPLEX COMPRESSOR, 9.9 CFM @ 50 PSI, 80 GALLON TANK, HORIZONTAL TANK MOUNTED SIMPLEX, SIMPLEX SCROLL AIR COMPRESSOR 132 GALLON BOOSTER TANK, MAXIMUM WORKING PRESSURE 200 PSI, MAXIMUM OPERATING TEMP 240° F
BV-1	BALL VALVE	WTL-500 APOLLO INTERNATIONAL	LEAD FREE BALL VALVE, FULL PORT, BLOWOUT-PROOF, PRESSURE RETAINING, ADJUSTABLE STEM PACKING
DBP-1	DOMESTIC BOOSTER PUMP (DUPLEX)	94ALF-A SERIES PREMIER FLOW	NUT SYSTEM CONDITION POINT: 150 GPM @ 72 PSI, SUCTION PRESSURE 19 MIN. TO 30 MAX. PSI, (2) PUMPS/MOTORS 480V, 3 PH, 60HZ, 3.7
DN-1	DOWNSPOUT NOZZLE	PFVD-5-2-1/2 (DUPLEX) ZURN	MODEL EBARA EVMSU15-2, 5 HP, 3600 RPM, FLOW RATE OF 75 GPM @ 122 FT. TDH (EACH), 5 HP ROUGH BRONZE BODY, DECORATIVE WALL FLANGE AND OUTLET NOZZLE
ESH-1	EYE/FACE WASH STATION 2-HEADS WITH SHOWER	Z199 ZARB GUARDIAN	EYE/FACE WASH: TWO FS-PLUS SPRAY HEADS WITH SHOWER, 1/2" IPS PVCV COATED BRASS STAY-OPEN BALL
		G1950P	VALVE, 11.75" ORANGE ABS PLASTIC BOWL, SHOWER: 1"PVC-COATED BRASS STAY-OPEN BALL VALVE 10" DIAMETER ORANGE ABS SHOWER HEAD WITH 20 GPM FLOW CONTROL, TMV-2
EWC-1	EXPANSION TANK ELECTRIC WATER COOLER, SPLIT LEVEL, WALL MOUNTED, STANDARD AND	ZURN WXTP-120V ELKAY	BRASS CONNECTION, WELDED STEEL CONSTRUCTION, BUTYL RUBBER BLADDER, MAXIMUM SUPPLY PRESSURE 80 PSI, PRE-CGARGE 40 PSI ADA APPROVED, W/ TOUCH PADS ON FRONT, BOTTLE FILLING STATION WITH INTEGRAL SWIRLFLO FOUNTAIN, 115V, 1PH, 370W
EVVC-1	HANDICAPPED, NO LEAD DESIGN, ONE PIECE, STAINLESS STEEL BASIN, WITH BOTTLE FILLING STATION	LZWS-LRPBM28K	REFRIGERATED FILTERED STAINLESS, FLEXI-GUARD SAFETY BUBBLER, P-TRAP, WATER VALVE, FRAME PER MANUFACTURER'S INSTRUCTIONS
FD-1	FLOOR DRAIN-SQUARE	MIFAB F1000-S	CAST IRON BODY, ANCHOR FLANGE, SECURED ROUND ADJUSTABLE STRAINER HEAD WITH HOLE GRATE, LOOSE GRATE AND SEDIMENT BUCKETS, MIFAB TRAP GUARD, REFER TO PLANS FOR SIZES
FPHB-1	FROST PROOF HOSE BIBB - BOX	J.R. SMITH 5509QT-CAN	AUTOMATIC DRAINING, ANTI-SIPHON FREEZELESS, PROVIDE SHUTOFF VALVE FOR SUPPLY LINE IN AN ACCESSIBLE LOCATION
FS-1	FLOOR SINK 12-1/2" CAST IRON RECEPTOR, 8" DEEP	J. R. SMITH 3150	CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, LOOSE GRATE, ALUMINUM DOME BOTTOM STRAINER, GRATE, MIFAB TRAP GUARD
GD-1	GARBAGE DISPOSAL - RESIDENTIAL	INSINKERATOR BADGER 1	1/3 HORSEPOWER HEAVY DUTY MOTOR, RUGGED GALVANIZED STEEL CONSTRUCTION, INSTALL PER MANUFACTURER'S INSTRUCTIONS 120V, 60HZ, 1/3HP
GWH-1 HL-1	(6) GAS WATER HEATER TANKLESS HANDICAPPED LAVATORY, UNDER MOUNT, VITREOUS CHINA - OVAL	LOCHINVAR WAN200PM ZURN	DIRECT-SPARK IGNITION, BUILT-IN CASCADING SEQUENCER, PROVIDE MANUFACTURER'S CONCENTRIC VENT KIT 120V, 60HZ, 1PH, 24' TO EXTERIOR, PROVIDE CATCH PAN & DRAIN, MIXING VALVE, ACID NEUTRALIZATION KIT, 199.9 MBH ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET, TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES
⊓L-1	HANDICAPPED LAVATORT, UNDER MOUNT, VITREOUS CHINA - OVAL	Z5220	P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, THREE HOLES ON
HL-2	HANDICAPPED LAVATORY, WALL MOUNT, VITREOUS CHINA	ZURN	DECK 4" CENTERS, COORDINATE LOCATION OF FAUCET WITH SINK PRIOR TO CUTTING HOLES ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET, TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES
		Z5314	P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, CONCEALED ARM CARRIER SYSTEM, THREE HOLES ON DECK 4" CENTERS
HS-1	HANDICAPPED SINK SINGLE COMPARTMENT UNDER MOUNT 18-1/2"x18-1/2"x5-3/8" - EXAMS	ELKAY ELUH161655	ELKAY FAUCET LK800GN04T4, 8" FIXED CENTER, 4" REACH, 4" WRISTBLADE HANDLE, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE, McGUIRE 8912 1
	SINGLE COMPARTIMENT UNDER MOUNT 10-1/2 X10-1/2 X0-3/0 - EXAMO	ELOTTOTOSS	1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS,
<u> </u>			FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON DECK, COORDINATE WITH SINK PRIOR TO CUTTING
HS-2	HANDICAPPED SINK SINGLE COMPARTMENT, UNDERCOUNTER MOUNT 23-1/2"x18-1/4"x5-38" - OMM &	ELKAY ELUHAD211555PD	ELKAY LK800LGN05T4, 8" CNETERSET, 5" REACH, 8" HEIGHT, 4" WRISTBLADE HANDLE, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1
	CLINICAL SKILLS		1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE,
HS-5	HANDICAPPED SINK	JUST	PROVIDE THREE FAUCET HOLES ON DECK, COORDINATE WITH SINK PRIOR TO CUTTING ELKAY LKB722C SENSOR FAUCET AC PLUG IN, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS 120V PLUG
	SINGLE COMPARTMENT HANDICAP - SCRUB	JADA-770-1-S	BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS
HSH-1	HANDICAPPED SHOWER.	SCHLUTER DRAIN SYSTEM	W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON BACK SPLASH STAINLESS STEEL DRAIN BODY STRAINER, SEAT, GRAB BARS, ZURN Z7300-SS-MT-HW-H9-S9
HSH-2	HANDICAPPED SHOWER, 60"x 30" ROLL-IN HANDICAPPED SHOWER, 36"x 36"	TILE BY OTHER SCHLUTER DRAIN SYSTEM	STAINLESS STEEL DRAIN BODY STRAINER, SEAT, GRAB BARS, ZURN 27300-SS-MT-HW-H9-S9 STAINLESS STEEL DRAIN BODY STRAINER, SEAT, GRAB BARS, ZURN Z7300-SS-MT-HW-H9-S9
HWC-1	HANDICAPPED WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, WALL	TILE BY OTHER ZURN	EZ-FLO 65913 OPEN FRONT SEAT, ZURN Z6000AV-HET 1.28 GPF MANUAL FLUSH VALVE, J.R. SMITH 0211Y-M54
IHF-1	MOUNTED, ELONGATED RIM, 12" ROUGH-IN, SIPHON JET BOWL, 1.28 GPF INSTA HOT FAUCET	Z5615 HET SERIES INSINKERATOR	1000# CARRIER SWIVELING GOOSENECK SPOUT, EASY-ACTION LEVER WITH AUTOMATIC SHUT-OFF, POLISHED CHROME, 2/3 115V, 11.3A
JS-1	JANITOR'S SINK,	MODEL C1300 MUSTEE CUSTODIAL FLOOR SINK	GALLON STAINLESS STEEL TANK, TEMPERATURE CONTROL, PROVIDE SERVICE FAUCET # 63.600A CHROME PLATED BRASS ON 8" CENTER W/ VACUUM BREAKER, HOSE
	FLOOR MOUNTED 24"x 24", ONE PIECE MOLDED CONSTRUCTION OF NATURAL CRUSHED STONE AND POLYESTER RESIN	MODEL 63M	BRACKET 65.700, MOP HANGER 65.600, BUMPER GUARDS 63.401, WALL GUARDS 2 PANELS & 1 BRACKET 67.2424, SUPPLIED W/ CAST BRASS DRAIN, PROVIDE CHECK VALVES ON HOT AND COLD WATER LINES IN AN ACCESSIBLE LOCATION
L-1	LAVATORY, PEDESTAL SINK, VITREOUS CHINA	KOHLER K-2362-1	ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET, TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP
<u> </u>			AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, CONCEALED ARM CARRIER SYSTEM, ONE HOLE ON DECK 4" CENTER
OD-1	OVERFLOW DRAIN	J.R. SMITH 1072	ADJUSTABLE, DUCO CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, POLYETHYLENE DOME, WATER DAM, SUMP PAN
PRV-1	PRESSURE REDUCING VALVE	WATTS LF25AUB	LEAD FREE COPPER SILICON ALLOY WITH STAINLESS STEEL STRAINER AND HIGH-TEMPERATURE DIAPHRAGM, HIGH OR LOW-PRESSURE SETTINGS, GAUGE PORTS, NSF 61-G APPROVED FOR POTABLE-WATER APPLICATIONS AND COMPLIANT WITH ASSE 1003 STANDARDS
RC-1	HEAT TAPE	RAYCHEM	140° NVENT RAYCHEM HWAY SELF-REGULATION HEATING CABLE (HWAT-R2) WITH PLASTICIZER DIFFUSION SHIELD, HEAVY TINNED COPPER BRAID AND POLYOLEFIN OUTER JACKET. ROUTE TAPE TO FURTHEST RUN JUST
			BEFORE DROP. (1)CONTROLLER PER 500 FEET OF TAPE, CONTROLLERS (6 TOTAL) TO BE LOCATED IN THE MECHANICAL ROOM IN THE BASEMENT. COORDINATE WITH MANUFACTURER. CONTROLLER TO BE SET AT 140°,
			PROVIDE MEGGERING REPORT @ 2500V, RICHARD T. WARREN, JR. P.E. INDUSTRIAL HEATER OFFICE: 901-382-4761; CELL: 901-240-2284.
RD-1	ROOF LIVERANT	J.R. SMITH 1015	ADJUSTABLE EXTENSION, DUCO CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, POLYETHYLENE DOME, AND SUMP PAN
RH-1 RPZ-1	ROOF HYDRANT REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER, FOR DOMESTIC WATER	WOODFORD RHY2-MS	FREEZELESS ROOF HYDRANT, BACKFLOW PROTECTED WITH DOUBLE CHECK BACKFLOW PREVENTER, BUILT IN VENT, DRAIN HOLE WHICH MUST BE PIPED TO A DRAIN LOCATION PROVIDE SAME SIZE AS WATER LINE FROM METER, WATTS BALL VALVES AND "Y" STRAINER, SHALL MEET
	REDUCE PRESSURE PRINCIPLE BACKPLOW PREVENTER, FOR DOWESTIC WATER	LF009M2 QT	APPROVAL BY FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA
RPZ-2	REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER, FOR IRRIGATION WATER	WATTS LF009M2 QT	PROVIDE SAME SIZE AS WATER LINE FROM METER, WATTS BALL VALVES AND "Y" STRAINER, SHALL MEET APPROVAL BY FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE
S-2	SINK	ELKAY	UNIVERSITY OF SOUTHERN CALIFORNIA ELKAY LK800GN08T4 FAUCET, 8" REACH, 13" HEIGHT, 8" CENTERS, 4" WRISTBLADE HANDLE, 3-1/2" OPENING
	SINGLE COMPARTMENT UNDER MOUNT 25-1/2"x19-1/4"x12" - SIM LABS	ELUH231712	DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS.
			FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON DECK, COORDINATE WITH SINK PRIOR TO CUTTING
S-3	SINK DOUBLE COMPARTMENT UNDER MOUNT 31-1/2"x18-1/2"x9" - LOUNGES	ELKAY ECTRU31179TC	MOEN ARBOR 5995 SINGLE HANDLE WITH PULL DOWN SPRAY, 14" HIGH SPOUT, 8-3/8" REACH, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE
			8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE,
S-4	SINK	PROVIDED BY OWNER AND	PROVIDE ONE FAUCET HOLE ON DECK, COORDINATE WITH SINK PRIOR TO CUTTING FAUCET PROVIDED BY MORTECH AND INSTALLED BY PLUMBING CONTRACTOR, 3-1/2" OPENING DRAIN. McGUIRE
	DOUBLE COMPARTMENT - CADAVER STORAGE	INSTALLED BY PLUMBING CONTRACTOR	151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED
			SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE FAUCET HOLES ON DECK PER MANUFACTURER
S-5	SINK SINGLE COMPARTMENT - SCRUB	SLOAN ESS-2100 LESS FAUCET	FISHER 3816 SINGLE DECK BASE W/12" RIGID GOOSE NECK SPOUT, 5-1/2" REEACH, KROWNE 16-120L DOUBLE FOOT PEDAL VALVE, 3-1/2" OPENING DRAIN. McGUIRE HEAVY DUTY GRID STRAINER, 1 1/2", CHROME PLATED
			TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE
			& LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK
S-6	SINK SINGLE COMPARTMENT UNDERMOUNT - PREP	ELKAY PLAUH281612	ELKAY LK800GN08T4 FAUCET, 8" FIXED CENTERS, 8" REACH, 13" HEIGHT, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID
			BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE
S-7	SINK	SLOAN	FAUCET HOLES ON DECK, COORDINATE WITH SINK PRIOR TO CUTTING FISHER 3816 SINGLE DECK BASE W/12" RIGID GOOSE NECK SPOUT, 5-1/2" REEACH, KROWNE 16-120L DOUBLE
	THREE COMPARTMENT - SCRUB	ESS-230 LESS FAUCET	FOOT PEDAL VALVE, 3-1/2" OPENING DRAIN. McGUIRE HEAVY DUTY GRID STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE
			& LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK
SB-1	SUPPLY BOX	GUY GRAY MIB2HAAB	(1) 1/2" SUPPLY, PROVIDE WHA-1 (WATER HAMMER ARRESTOR)
SCO-1	STACK CLEANOUT	J. R. SMITH 4510	DUCO CAST IRON CLEANOUT TEE, BRONZE PLUG, REMOVABLE STAINLESS STEEL COVER. REFER TO PLANS FOR SIZE, PROVIDE ROUND OR SQUARE FRAME AND COVER AS REQUIRED, REFER TO ARCHITECT, 12" A.F.F.
ST-1		LOCHINVAR RGA0650	125 WORKING PRESSURE, LOCK-TEMP BAFFLE, GLASS LINED, TEMPERATURE AND PRESSURE GAUGE, TEMPERATURE AND PRESSURE RELIEF VALVE, MAGNESIUM ANODE, ASME CERTIFIED, FIVE-YESR LIMITED WARRANTY
	STORAGE TANK - 650 GALLON		WARRANTY LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE TEMPERATURE CONTROL, SET AT 110°
	STORAGE TANK - 650 GALLON THERMOSTATIC MIXING VALVE - POINT OF USE	LEONARD 270-I F	LEAD TREE, INTEGRAE CHECK VALVE AND STRAINER, FROVIDE TEMPERATURE CONTROL, SET AT THE
TMV-1		LEONARD 270-LF GUARDIAN G3800LF	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE TEMPERATURE CONTROL, SET AT 90°
TMV-1	THERMOSTATIC MIXING VALVE - POINT OF USE	270-LF GUARDIAN	
TMV-1 TMV-2 TWCO-1	THERMOSTATIC MIXING VALVE - POINT OF USE THERMOSTATIC MIXING VALVE - EMERGENCY	270-LF GUARDIAN G3800LF J. R. SMITH	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE TEMPERATURE CONTROL, SET AT 90° UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON
TMV-1 TMV-2 TWCO-1 UB-1 UR-1	THERMOSTATIC MIXING VALVE - POINT OF USE THERMOSTATIC MIXING VALVE - EMERGENCY TWO WAY CLEANOUT, SPEEDI-SET OUTLET UTILITY BOX, WASTE, AND SUPPLY URINAL, WALL MOUNT, VITREOUS CHINA	270-LF GUARDIAN G3800LF J. R. SMITH 4237 OATLEY QUADTRO ZURN Z5758	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE TEMPERATURE CONTROL, SET AT 90° UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES (2) 1/2" SUPPLY VALVES, 2" DRAIN CONNECTION, 1/4" TURN VALVE, PROVIDE WHA-1 (WATER HAMMER ARRESTOR) INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0615 URINAL SUPPORT, FLUSH VALVE ZURN Z6001AV
TMV-1 TMV-2 TWCO-1 UB-1 UR-1 VP-1	THERMOSTATIC MIXING VALVE - POINT OF USE THERMOSTATIC MIXING VALVE - EMERGENCY TWO WAY CLEANOUT, SPEEDI-SET OUTLET UTILITY BOX, WASTE, AND SUPPLY URINAL, WALL MOUNT, VITREOUS CHINA VACUUM PUMP	270-LF GUARDIAN G3800LF J. R. SMITH 4237 OATLEY QUADTRO ZURN Z5758 OHIO MEDICAL S300-208-TI-V60	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE TEMPERATURE CONTROL, SET AT 90° UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES (2) 1/2" SUPPLY VALVES, 2" DRAIN CONNECTION, 1/4" TURN VALVE, PROVIDE WHA-1 (WATER HAMMER ARRESTOR) INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0615 URINAL SUPPORT, FLUSH VALVE ZURN Z6001AV 25.6 CFM @ 19" HgG., 60 GALLON TANK, SIMPLEX ROTARY VANE VACUUM, VERTICAL TANK MOUNTED SIMPLEX 208V, 3PH, 3HP
TMV-1 TMV-2 TWCO-1 UB-1 UR-1 VP-1 WC-1	THERMOSTATIC MIXING VALVE - POINT OF USE THERMOSTATIC MIXING VALVE - EMERGENCY TWO WAY CLEANOUT, SPEEDI-SET OUTLET UTILITY BOX, WASTE, AND SUPPLY URINAL, WALL MOUNT, VITREOUS CHINA VACUUM PUMP WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, WALL MOUNTED, ELONGATED RIM, 1.28 GPF	270-LF GUARDIAN G3800LF J. R. SMITH 4237 OATLEY QUADTRO ZURN Z5758 OHIO MEDICAL S300-208-TI-V60 ZURN Z5615 HET SERIES	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE TEMPERATURE CONTROL, SET AT 90° UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES (2) 1/2" SUPPLY VALVES, 2" DRAIN CONNECTION, 1/4" TURN VALVE, PROVIDE WHA-1 (WATER HAMMER ARRESTOR) INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0615 URINAL SUPPORT, FLUSH VALVE ZURN Z6001AV 25.6 CFM @ 19" HgG., 60 GALLON TANK, SIMPLEX ROTARY VANE VACUUM, VERTICAL TANK MOUNTED SIMPLEX EZ-FLO 65913 OPEN FRONT SEAT, ZURN Z6000AV-HET 1.28 GPF MANUAL FLUSH VALVE, J.R. SMITH 0210-M54-XK 1000# CARRIER
TMV-1 TMV-2 TWCO-1 UB-1 UR-1 VP-1 WC-1 WCO-1	THERMOSTATIC MIXING VALVE - POINT OF USE THERMOSTATIC MIXING VALVE - EMERGENCY TWO WAY CLEANOUT, SPEEDI-SET OUTLET UTILITY BOX, WASTE, AND SUPPLY URINAL, WALL MOUNT, VITREOUS CHINA VACUUM PUMP WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, WALL MOUNTED, ELONGATED	270-LF GUARDIAN G3800LF J. R. SMITH 4237 OATLEY QUADTRO ZURN Z5758 OHIO MEDICAL S300-208-TI-V60 ZURN	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE TEMPERATURE CONTROL, SET AT 90° UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES (2) 1/2" SUPPLY VALVES, 2" DRAIN CONNECTION, 1/4" TURN VALVE, PROVIDE WHA-1 (WATER HAMMER ARRESTOR) INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0615 URINAL SUPPORT, FLUSH VALVE ZURN Z6001AV 25.6 CFM @ 19" HgG., 60 GALLON TANK, SIMPLEX ROTARY VANE VACUUM, VERTICAL TANK MOUNTED SIMPLEX 208V, 3PH, 3HP EZ-FLO 65913 OPEN FRONT SEAT, ZURN Z6000AV-HET 1.28 GPF MANUAL FLUSH VALVE, J.R. SMITH 0210-M54-XK

PLUMBING EQUIPMENT SCHEDULE

NOTE: ROUTE RC-1 TO FURTHEST POINT OF HW LINE PRIOR TO DROPPING TO FIXTURES



PLUMBING SYMBOL LEGEND				
D.F.U.	DRAIN FIXTURE UNITS	^	HWAT TAPE	
GPM	GALLONS PER MINUTE	-#	FROST PROOF HOSE BIBB (FPHB-1)	
F.L.	FLOW LINE INVERT	© FD-1	FLOOR DRAIN	
M	WATER/GAS METER	SWD-1	SAFE WASTE DRAIN	
	REGULATOR	X	FLOOR SINK	
	PRESSURE REDUCING VALVE	WCO-1/ SCO-1	WALL CLEAN OUT/ STACK CLEAN OUT	
\sim	CONTINUATION	□ FCO	FLOOR CLEANOUT	
-15H	BALL VALVE	COTG-1/ TWCO-1	CLEAN OUT TO GRADE/ TWO-WAY CLEAN OUT	
	MIXING VALVE	1 ()	ICATES DETAIL NUMBER	
UB-1/ SB-1	UTILITY BOX/ SUPPLY BOX	HOR. OR VERT.	BACKFLOW PREVENTER (RPZ-1)	

GENERAL PLUMBING NOTES

- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE REGULATIONS AND LOCAL PLUMBING INSPECTOR.

 THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATICAL. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC.

VALVES SHALL BE INSTALLED ON ALL SUPPLY FIXTURE GROUPS AND HOT WATER

- THE CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

 ALL DOMESTIC WATER, NATURAL GAS, COMPRESSED AIR, AND VACCUM PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, AND WITHIN WALLS UNLESS OTHERWISE NOTED. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT DISHWASHERS, WASHING MACHINES, SUPPLY BOXES, AND QUICK CLOSING VALVES NOT LISTED. INSTALL WHA-1 AS CLOSE TO QUICK CLOSING VALVE AS POSSIBLE PER MANUFACTURES RECOMMENDATIONS. ISOLATION
- BALANCING VALVES.

 FROST PROOF HOSE BIBBS AND SUPPLY PIPING SHALL BE INSTALLED ON THE INSIDE OF THE INSULATION. SEAL SHEATHING PENETRATION TO PREVENT AIR FROM REACHING THE VALVE.

 ALL SANITARY WASTE PIPING SHOWN IS BELOW SLAB, BELOW FLOOR, OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING,
- EXPOSED OVERHEAD, OR WITHIN WALLS UNLESS OTHERWISE NOTED.

 8 FLOOR DRAINS ARE TO BE THE SAME SIZE AS THE DRAIN LINE IT CONNECTS UNLESS NOTED OTHERWISE. IF SIZE IS NOT INDICATED ON DRAWINGS REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PROPER SIZE.
- FLUSH CONTROLS FOR HANDICAPPED WATER CLOSETS ARE TO BE MOUNTED TO THE OPEN SIDE OF THE TOILET AREAS.

 CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING
- FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.

 ALL PIPING ON ROOF SHALL BE ANCHORED TO STEEL RIB FASTENERS APPROVED BY THE ROOF MANUFACTURER. INSTALL ANCHORS PER MANUFACTURERS RECOMMENDATION.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERGROUND PIPING.
- 13 ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS.

 14 ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO
- EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR.

 15 THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.

 16 THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN
- ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS.

 17 DOMESTIC WATER AND SEWER LOCATED OUTSIDE OF FOOTING SHALL MAINTAIN A MINIMUM OF 10' SEPARATION UNLESS WRITTEN PERMISSION IS OBTAINED FROM LOCAL AUTHORITIES AND/OR PROPER CONTAMINATION PROVISIONS PER LOCAL CODE HAVE BEEN MET.

 18 FINISHED FLOOR ELEVATION (F.F.E.) SHALL BE 0.00' FOR CALCULATION PURPOSES ONLY,
- UNLESS NOTED OTHERWISE.

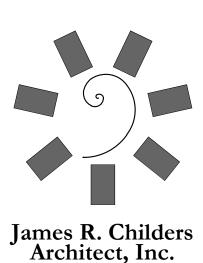
 19 THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS. NON-LEAD TYPE ONLY.

 20 ALL VENT THRU ROOF (VTR'S) PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY.
- FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.

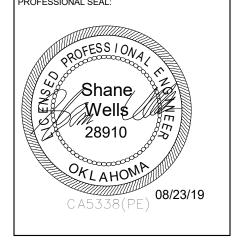
 21 ANY PVC PIPE PENETRATING A FIRE RATED ASSEMBLY SHALL BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY. ANY SPACE BETWEEN THE SLEEVE AND THE FIRE RATED ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900 OR FLAME STOPPER 5000.
- CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR DISHWASHER, WASHING MACHINE, REFRIGERATOR, ETC.
 PROVIDE SHUT-OFF VALVES FOR PROPER OPERATION AND SERVICING OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE BASE OF EACH RISER. COORDINATE WITH ARCHITECTURAL PLAN FOR ACCESS DOOR LOCATIONS.
- DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE BASE OF
 EACH RISER. COORDINATE WITH ARCHITECTURAL PLAN FOR ACCESS DOOR LOCATIONS.

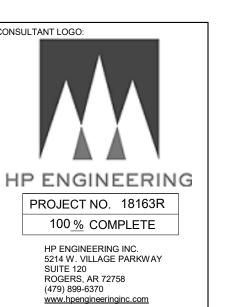
 24 VALVES SHALL BE LOCATED 6" ABOVE ACCESSIBLE CEILING WHEN AT ALL POSSIBLE AND
 SHALL BE CLEAR OF ANY OBSTRUCTIONS FROM OTHER TRADES. MAINTENANCE SHALL BE
 ABLE TO ACCESS VALVES WITH STANDARD LADDER. SHOULD LOCATION NOT BE APPLICABLE
 CONTRACTOR SHALL PROVIDE A CONTROL CHAIN AND/OR ARM.
- TEMPERED WATER, NOT EXCEEDING A MAXIMUM OF 110° F, SHALL BE DELIVERED FROM PUBLIC HANDWASHING FACILITIES THROUGH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070.
 IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE
- CONTRACTOR TO CONFIRM THAT THE INVERTS AND LOCATIONS OF THE BUILDING UTILITIES ARE COMPATABLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK.

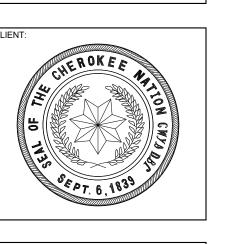
 27 CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV-1) SHOULD THE WATER PRESSURE EXCEED 75 PSI. CONTRACTOR SHALL CONFIRM WITH ON SITE CONDITIONS AND LOCAL UTILITY.
- 28 ALL GAS PIPING ON ROOF SHALL BE PAINTED YELLOW, TYPICAL.



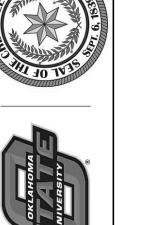


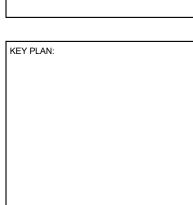


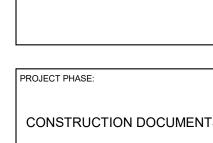












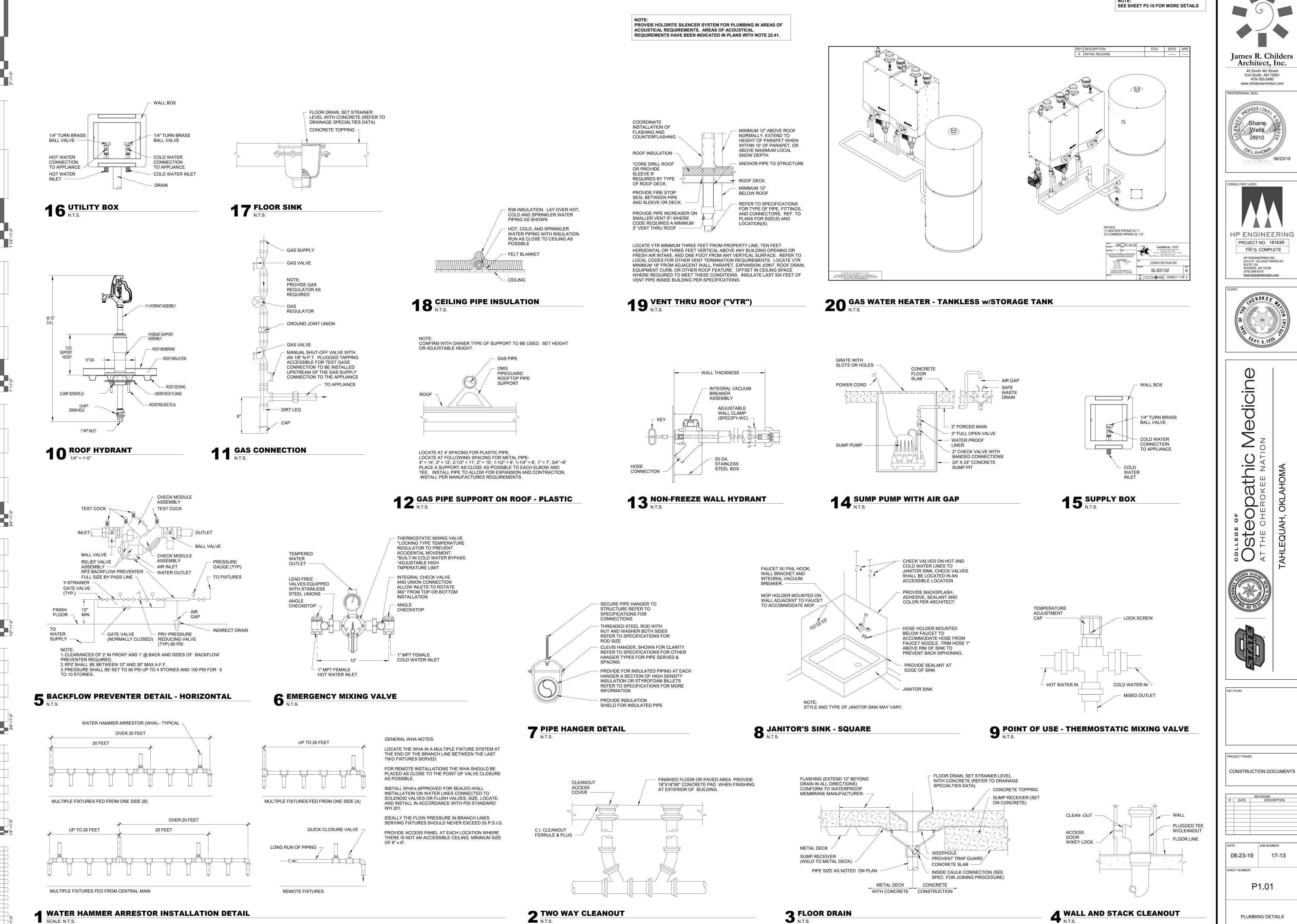
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PLUMBING LEGENDS, NOTES

AND SCHEDULES



SCALE: N.T.S.

James R. Childers Architect, Inc. 45 South 4th Street Fort Smith, AR 72901 479-783-2480

www.childersarchitect.com

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PROJECT NO. 18163R

100 % COMPLETE

5214 W. VILLAGE PARKWAY SUITE 120 ROGERS, AR 72758

REVISIONS DESCRIPTION

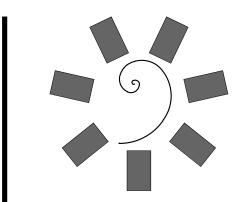
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PLUMBING DETAILS

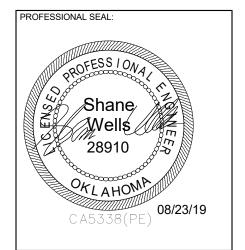
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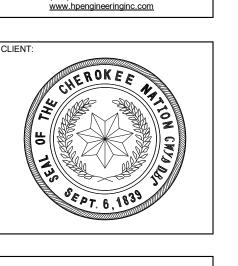


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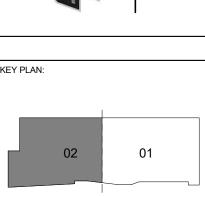


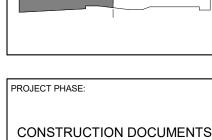


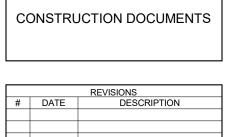


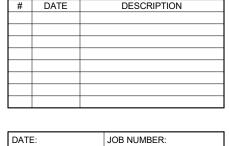












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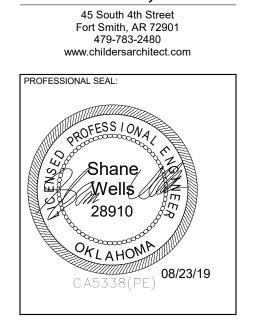
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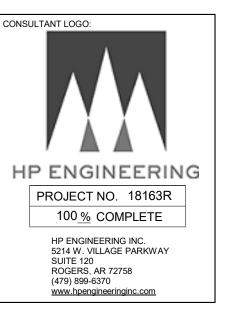
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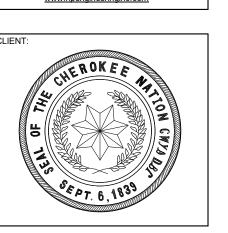
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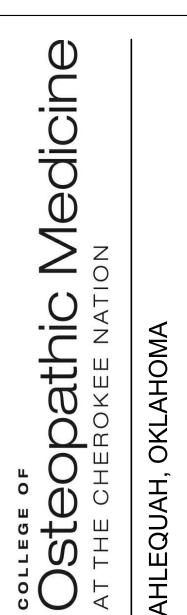
PLUMBING DRAIN PLAN -BASEMENT LEVEL



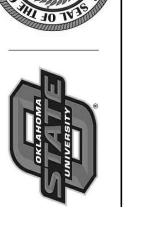


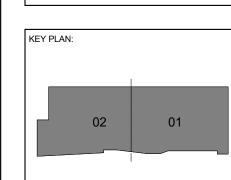












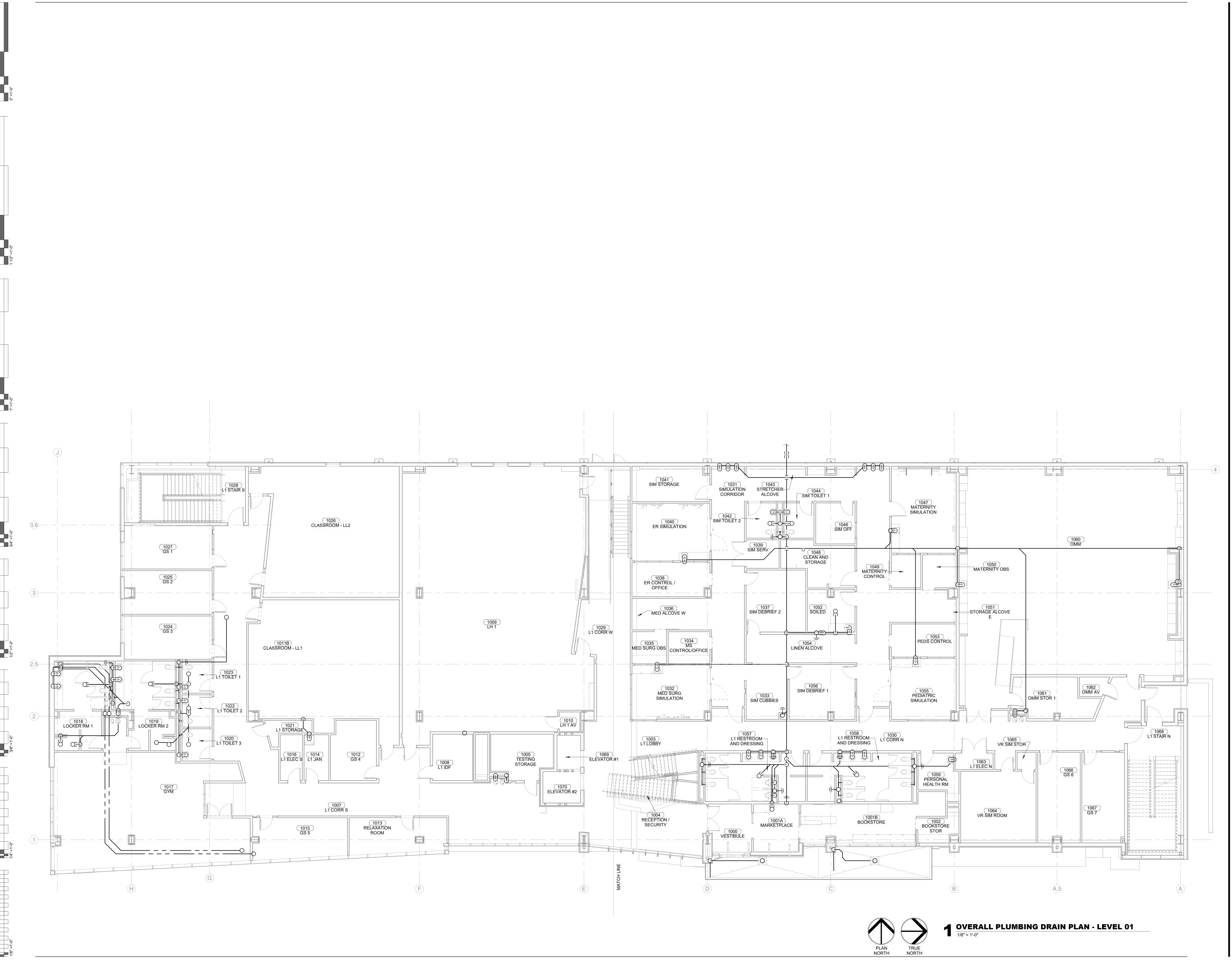


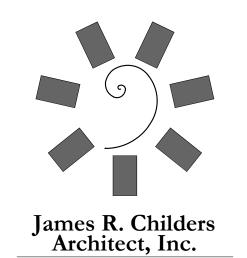
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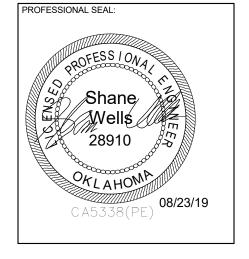
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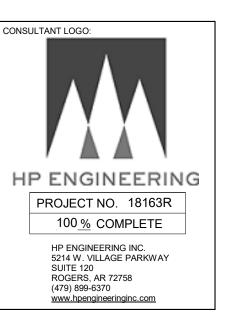
PLUMBING DRAIN/VENT ISOMETRIC BASEMENT LEVEL

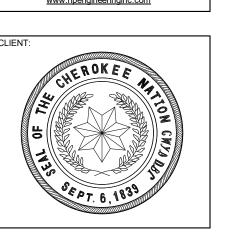




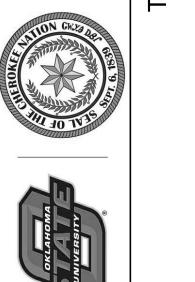


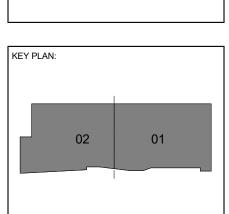


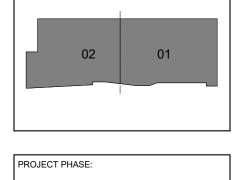












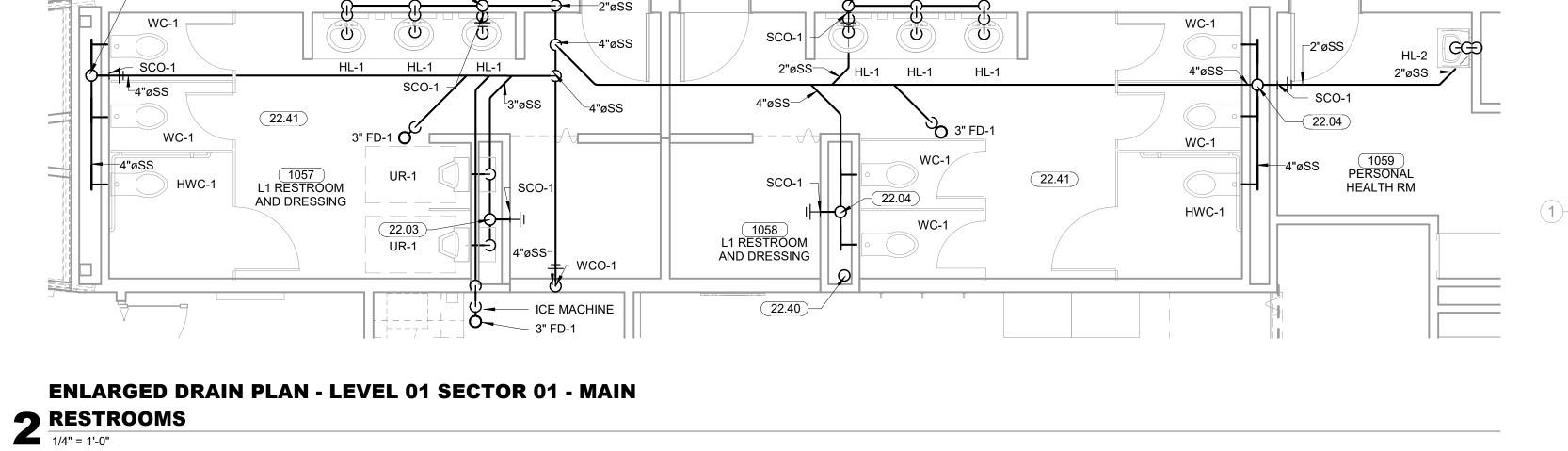
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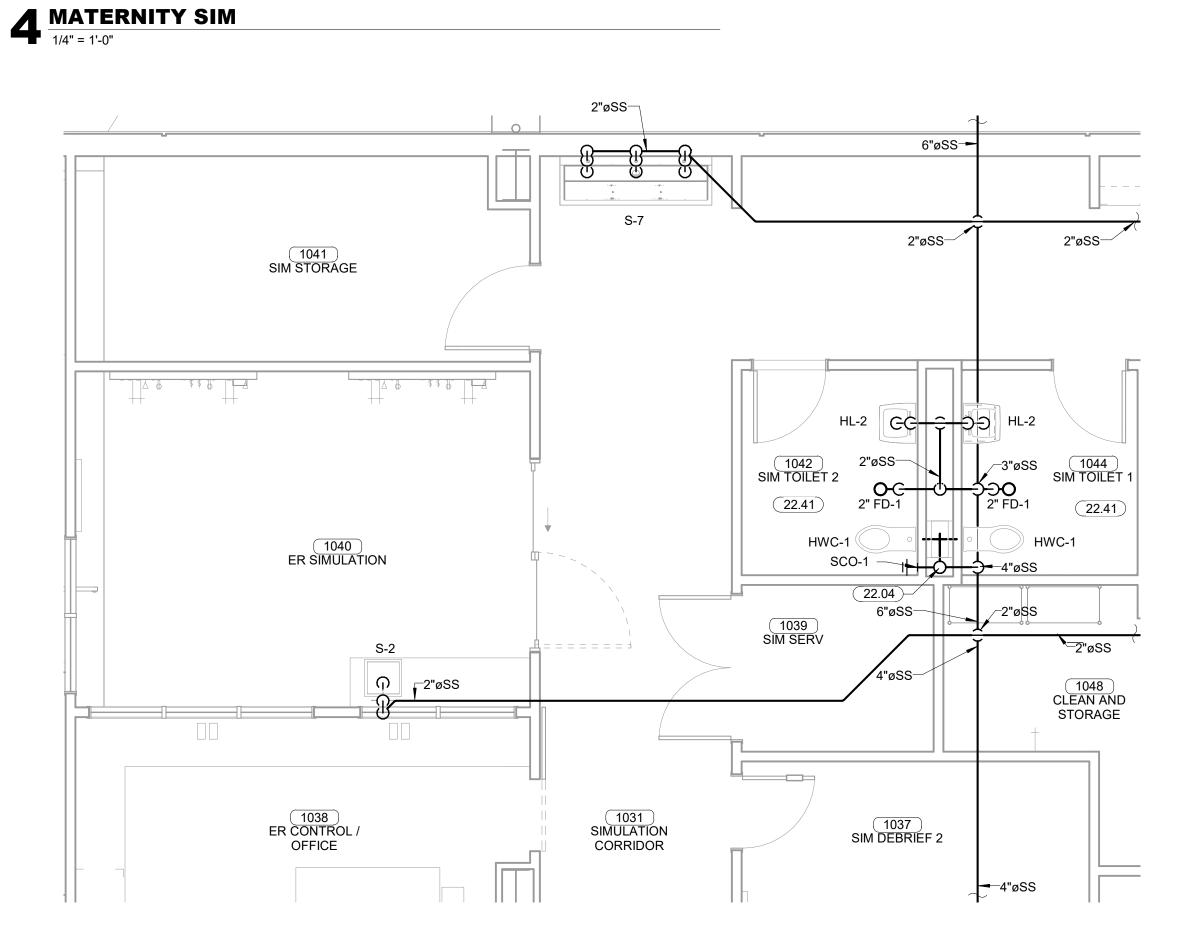
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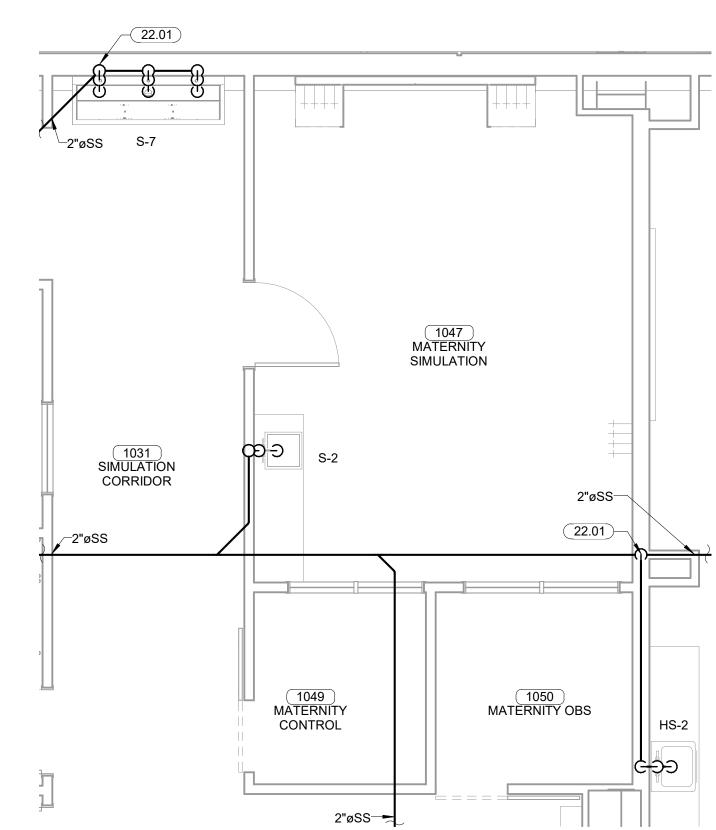
OVERALL DRAIN PLAN -LEVEL 1



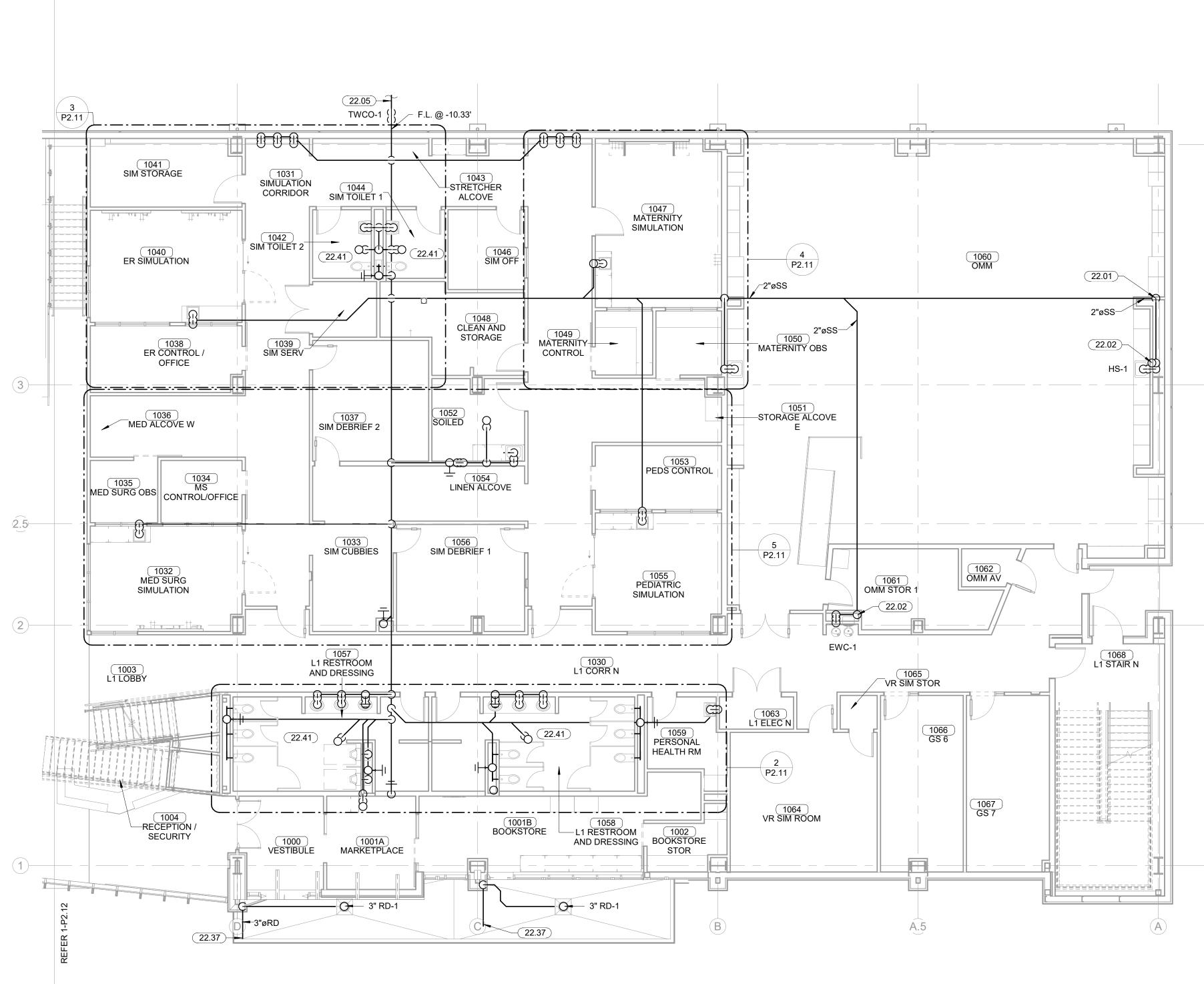
3 ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 01 - ER SIM 1/4" = 1'-0"



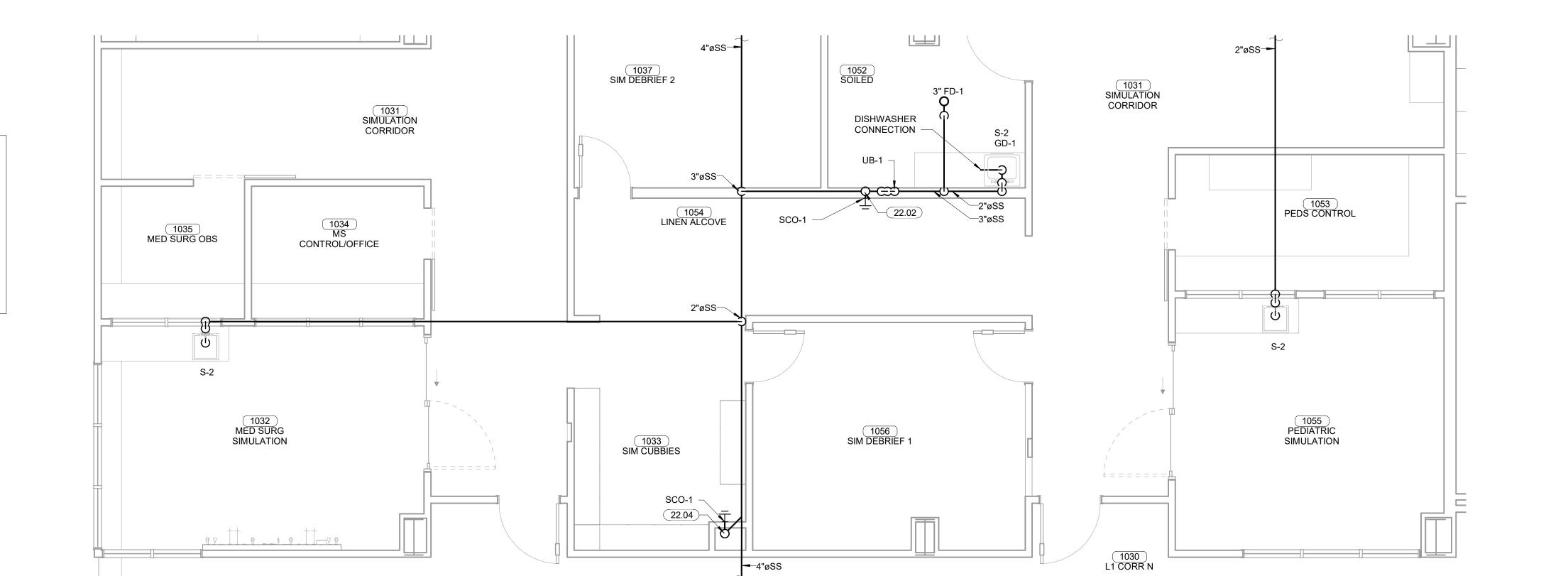
ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 01 -



KEYNOTES 22.01 DIRTY PIPE NEW 2" DRAIN LINE IN WALL TO MAIN DRAIN LINE. 22.02 2" SANITARY STACK UP. 22.03 3" SANITARY STACK UP. 22.04 4" SANITARY STACK UP. 22.05 6" BUILDING DRAIN LINE. REFER TO CIVIL PLANS FOR CONTINUATION. 243 D.F.U. 22.37 3" ROOF DRAIN. REFER TO CIVIL PLANS FOR CONTINUATION. 22.40 RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS. 22.41 PROVIDE HOLDRITE SILENCER SYSTEM FOR THIS



ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 01 - $5 \frac{\text{SIMULATION}}{1/4" = 1'-0"}$



James R. Childers Architect, Inc.

45 South 4th Street

Fort Smith, AR 72901

479-783-2480

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SHEET NUMBER:

PLUMBING DRAIN PLAN - LEVEL 01 SECTOR 01

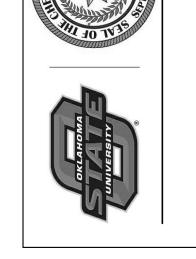
1/8" = 1'-0"

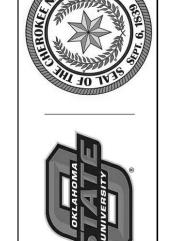
CONSTRUCTION DOCUMENTS

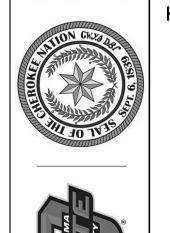
REVISIONS DESCRIPTION

P2.11

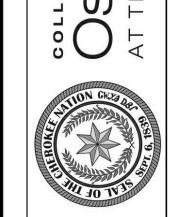
PLUMBING DRAIN PLAN -LEVEL 01 SECTOR 01





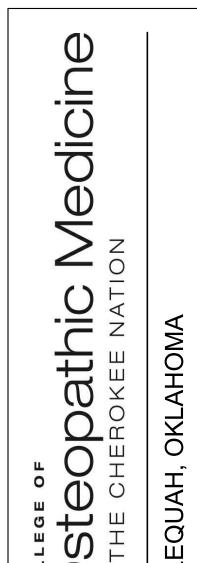




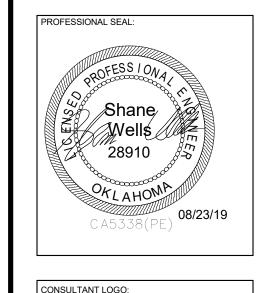


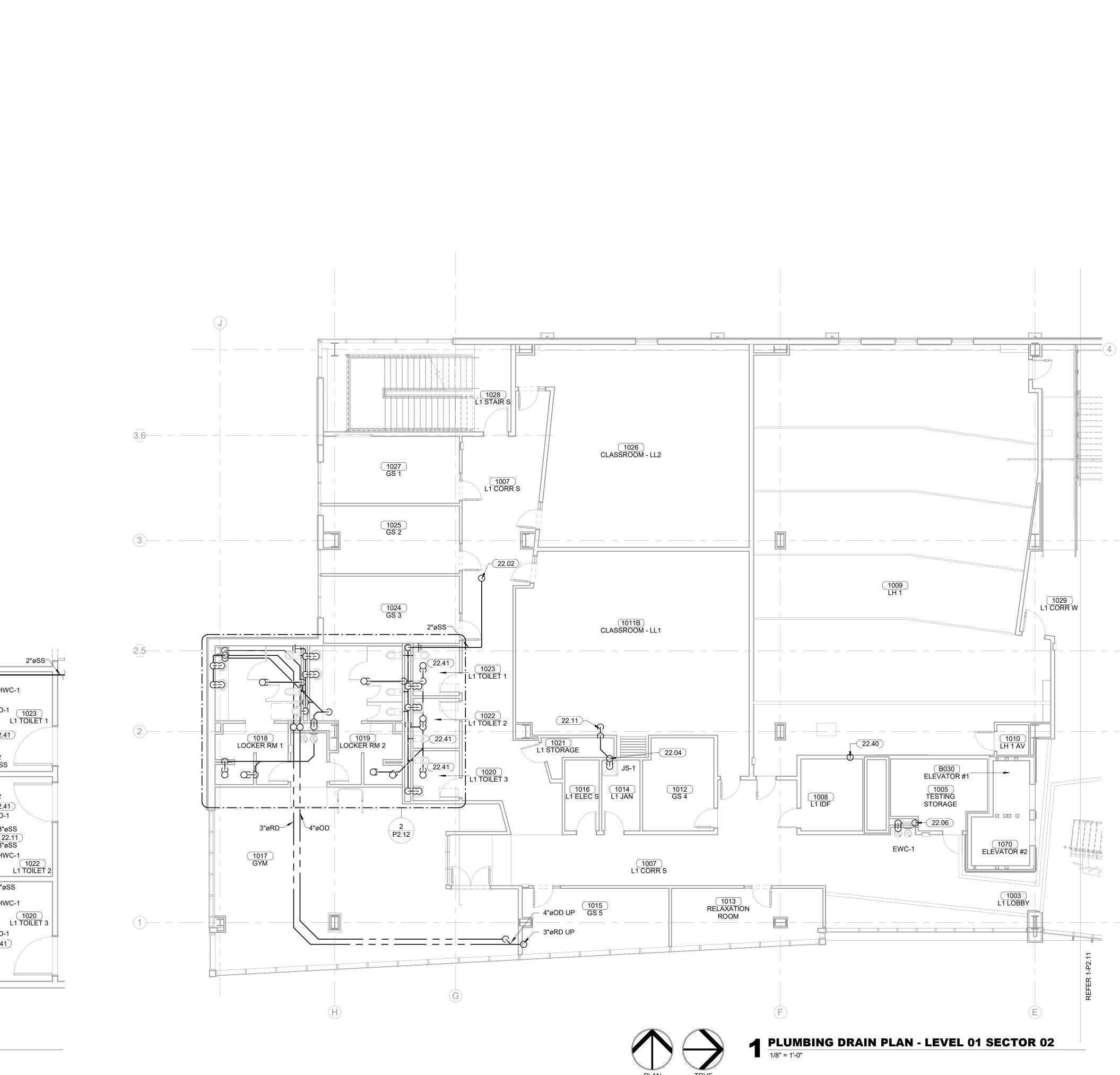












KEYNOTES

22.01 DIRTY PIPE NEW 2" DRAIN LINE IN WALL TO MAIN

DRAIN LINE. 22.02 2" SANITARY STACK UP.

22.02 2 SANITARY STACK UP.
22.04 4" SANITARY STACK UP.
22.06 2" SANITARY STACK UP AND DO

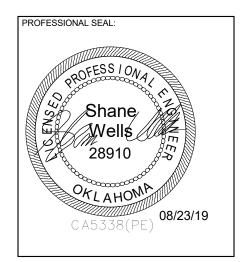
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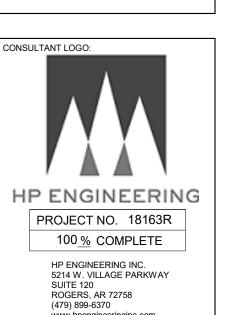
22.06 2" SANITARY STACK UP AND DOWN.
22.11 4" SANITARY STACK DOWN.
22.40 RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS.

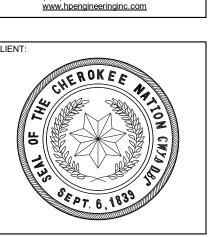
22.41 PROVIDE HOLDRITE SILENCER SYSTEM FOR THIS

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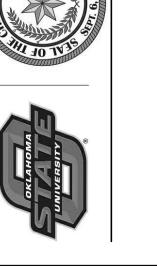


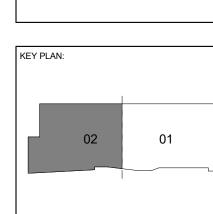


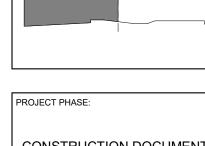


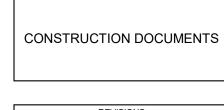












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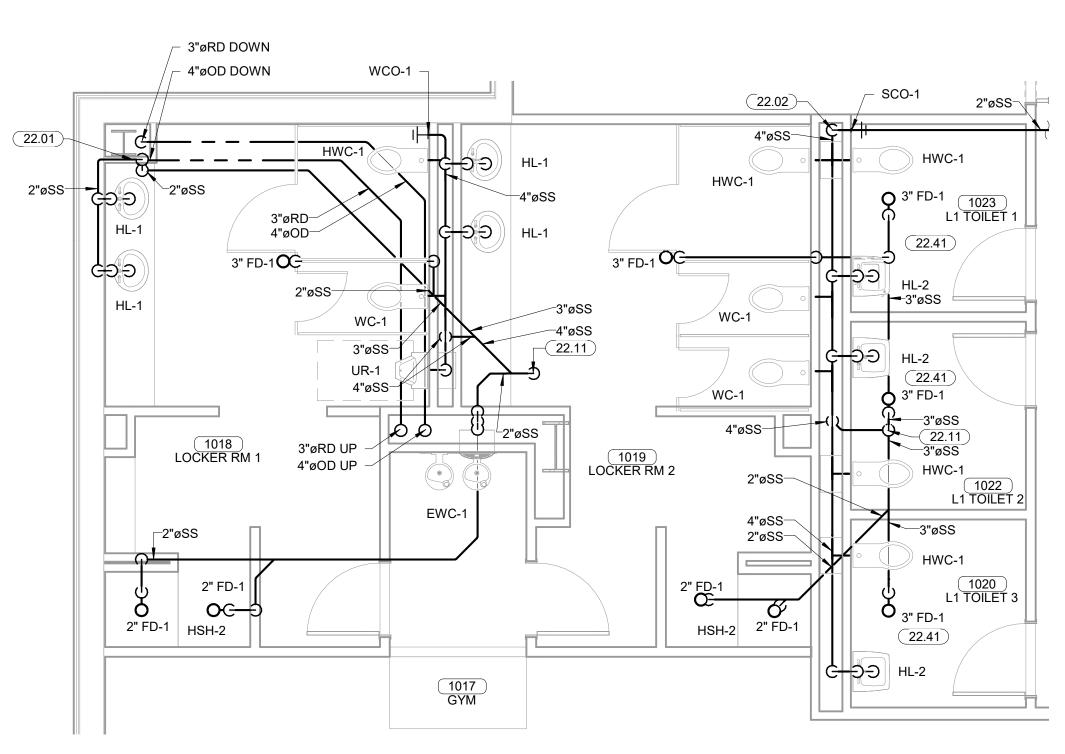
DATE:	JOB NUMBER:
08-23-19	17-13
SHEET NUMBER:	•

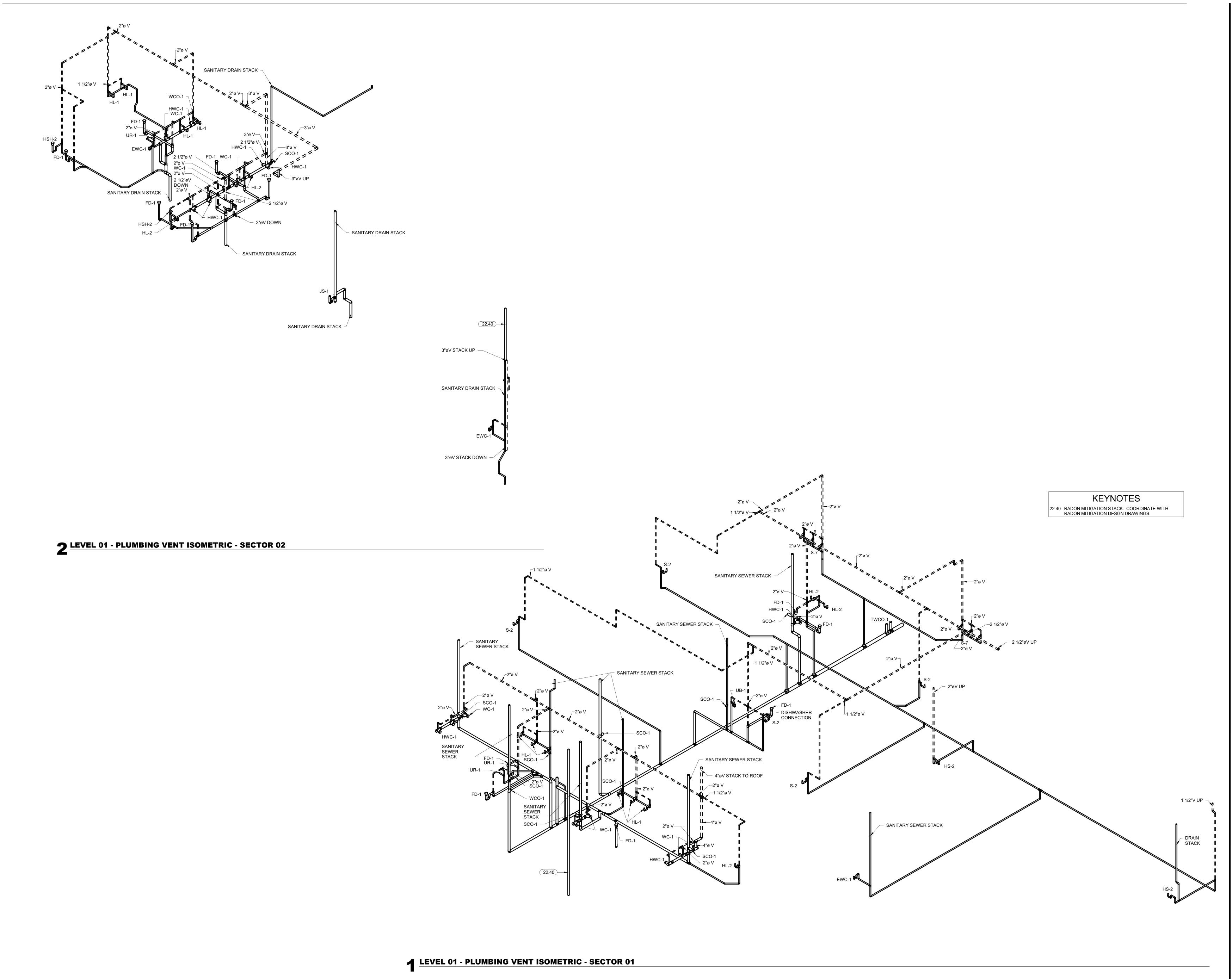
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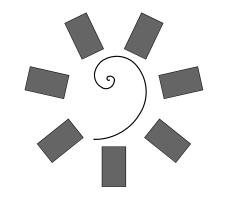
PLUMBING DRAIN PLAN -LEVEL 01 SECTOR 02

ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 02 - LOCKER ROOMS

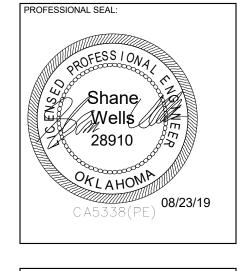
1/4" = 1'-0"

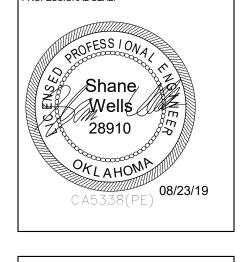


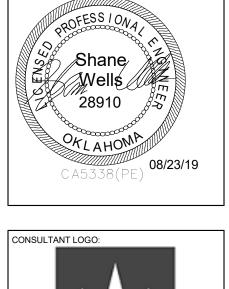




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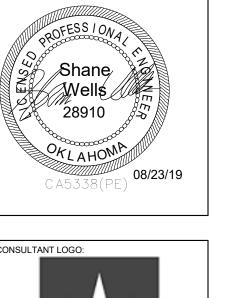


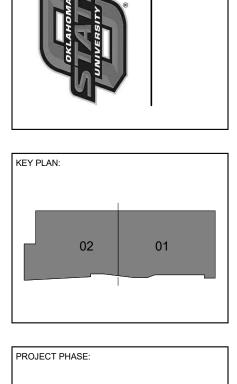


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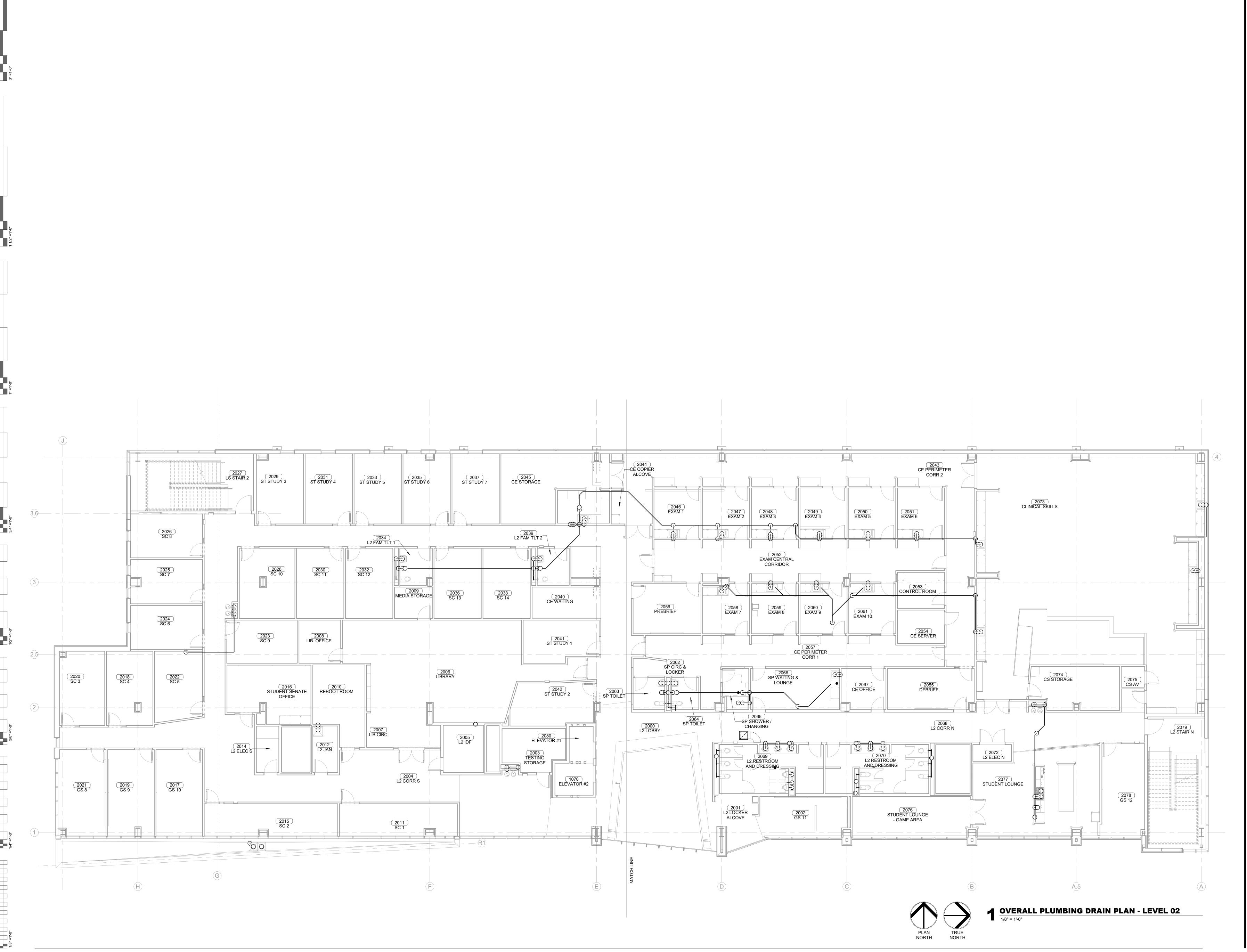


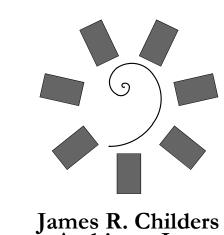
CONSTRUCTION DOCUMENTS

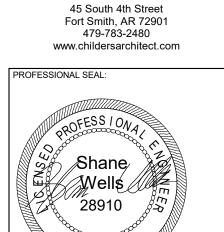
08-23-19 17-13

P2.13

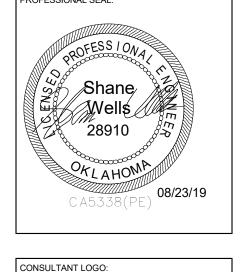
PLUMBING DRAIN/VENT ISOMETRIC LEVEL 01

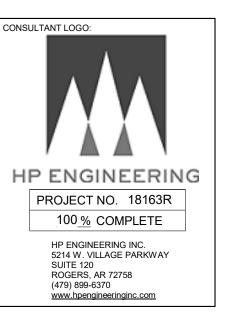


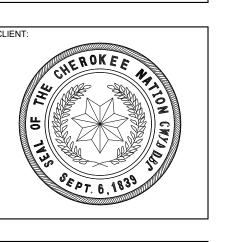


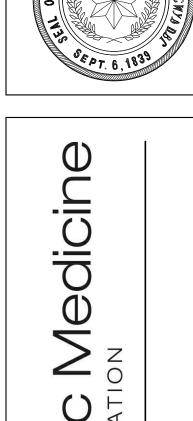


Architect, Inc.

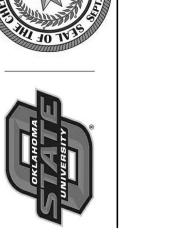


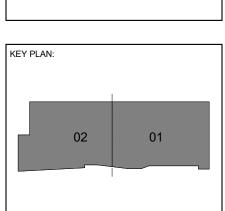


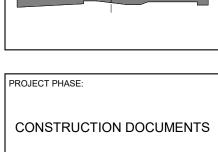




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SHEET NUMBER: P2.20

OVERALL DRAIN PLAN -LEVEL 02

2077 STUDENT LOUNGE S-3 GD-1 ICE MACHINE 2051 EXAM 6 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 -ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 -4 STUDENT LOUNGE

1/4" = 1'-0" $5 \frac{\text{TYPICAL EXAM ROOM}}{1/4" = 1'-0"}$ 2062 SP CIRC & LOCKER 2066 SP WAITING & LOUNGE 2065 SP SHOWER / CHANGING G-G---**ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - SP** 3 CIRC & LOCKER

1/4" = 1'-0" 2069 L2 RESTROOM AND DRESSING 2070 L2 RESTROOM AND DRESSING 3" FD-1 **O**C 4"øSS∏• UR-1 22.10 22.11 (22.04) UR-1 22.40 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - MAIN **2 RESTROOMS**1/4" = 1'-0"

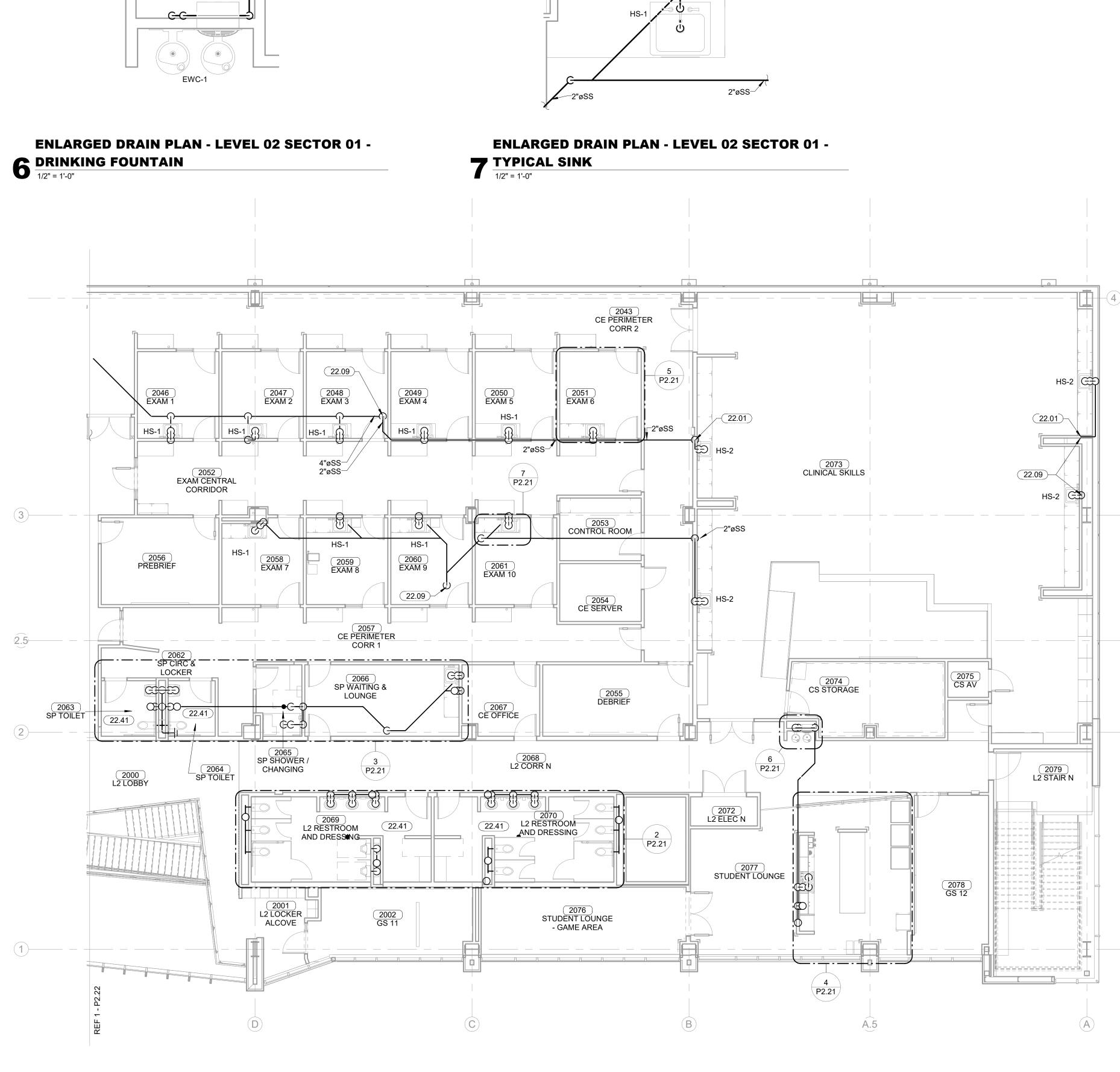
3" FD-1 -

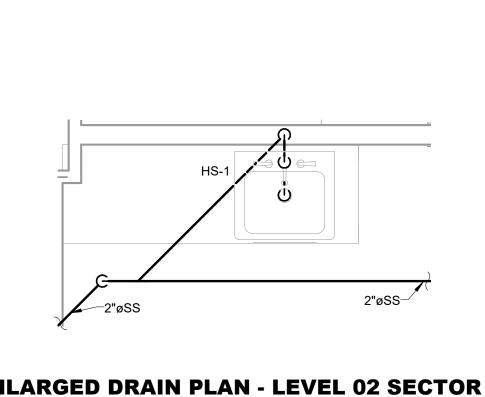
3"øSS

22.08

HWC-1

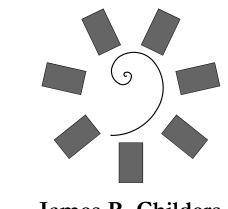
WC-1





(22.09)

2"øSS-



KEYNOTES

22.01 DIRTY PIPE NEW 2" DRAIN LINE IN WALL TO MAIN DRAIN LINE.

22.40 RADON MITIGATION STACK. COORDINATE WITH

22.41 PROVIDE HOLDRITE SILENCER SYSTEM FOR THIS

RADON MITIGATION DESGN DRAWINGS.

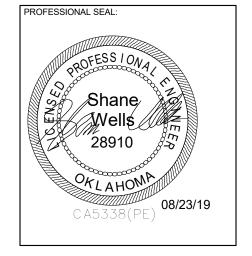
22.02 2" SANITARY STACK UP. 22.03 3" SANITARY STACK UP. 22.04 4" SANITARY STACK UP.

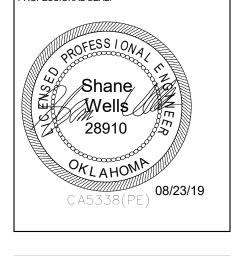
22.09 2" SANITARY STACK DOWN.

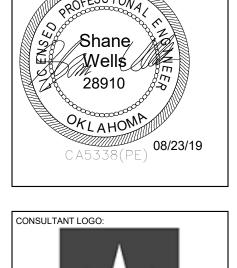
22.10 3" SANITARY STACK DOWN. 22.11 4" SANITARY STACK DOWN.

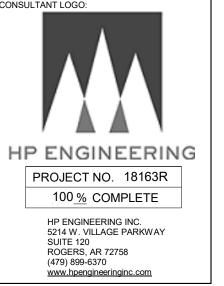
22.06 2" SANITARY STACK UP AND DOWN. 22.08 4" SANITARY STACK UP AND DOWN.

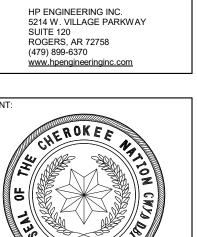
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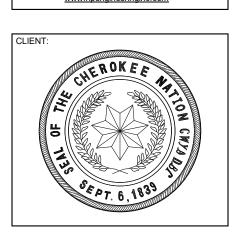


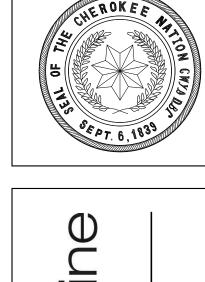






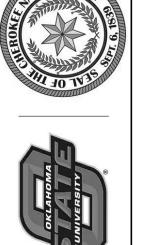


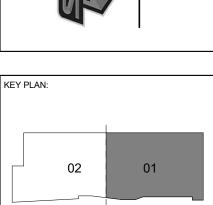


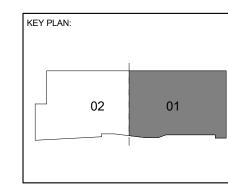












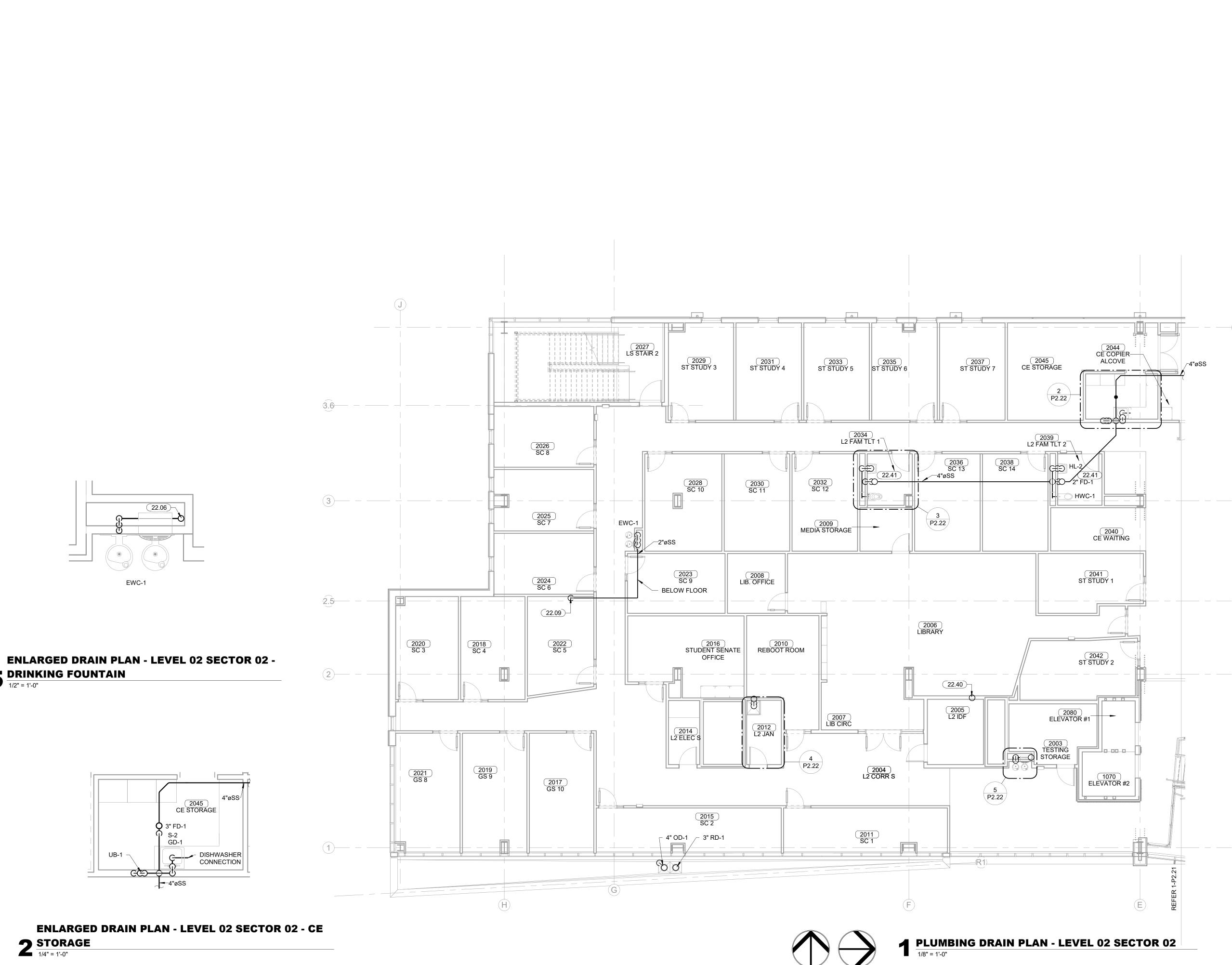
PROJECT PHASE: CONSTRUCTION DOCUMENTS

		REVISIONS
#	DATE	DESCRIPTION

08-23-19 SHEET NUMBER:

P2.21

PLUMBING DRAIN PLAN -LEVEL 02 SECTOR 01



ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 02 - $3 \frac{\text{TYPICAL FAM. TLT}}{1/4" = 1'-0"}$

WCO-1

2" FD-1

JS-1

4 TYPICAL JAN. 1/4" = 1'-0"

ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 02 -

ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 02 - CE **2** STORAGE

1/4" = 1'-0"

4"øSS

) 3" FD-1

 $5 \frac{\text{DRINKING FOUNTAIN}}{1/2" = 1'-0"}$

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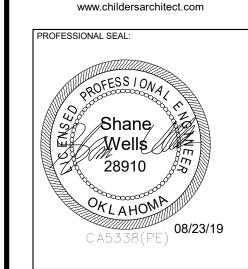
Fort Smith, AR 72901 479-783-2480

KEYNOTES

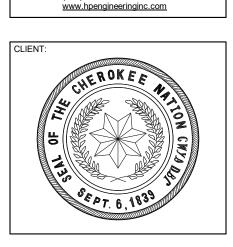
22.40 RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS. 22.41 PROVIDE HOLDRITE SILENCER SYSTEM FOR THIS

22.06 2" SANITARY STACK UP AND DOWN. 22.07 3" SANITARY STACK UP AND DOWN.

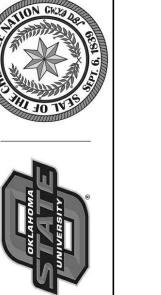
22.09 2" SANITARY STACK DOWN.

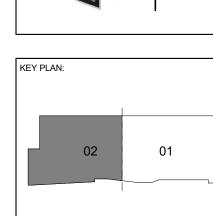


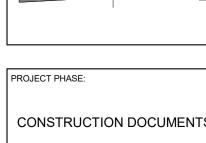












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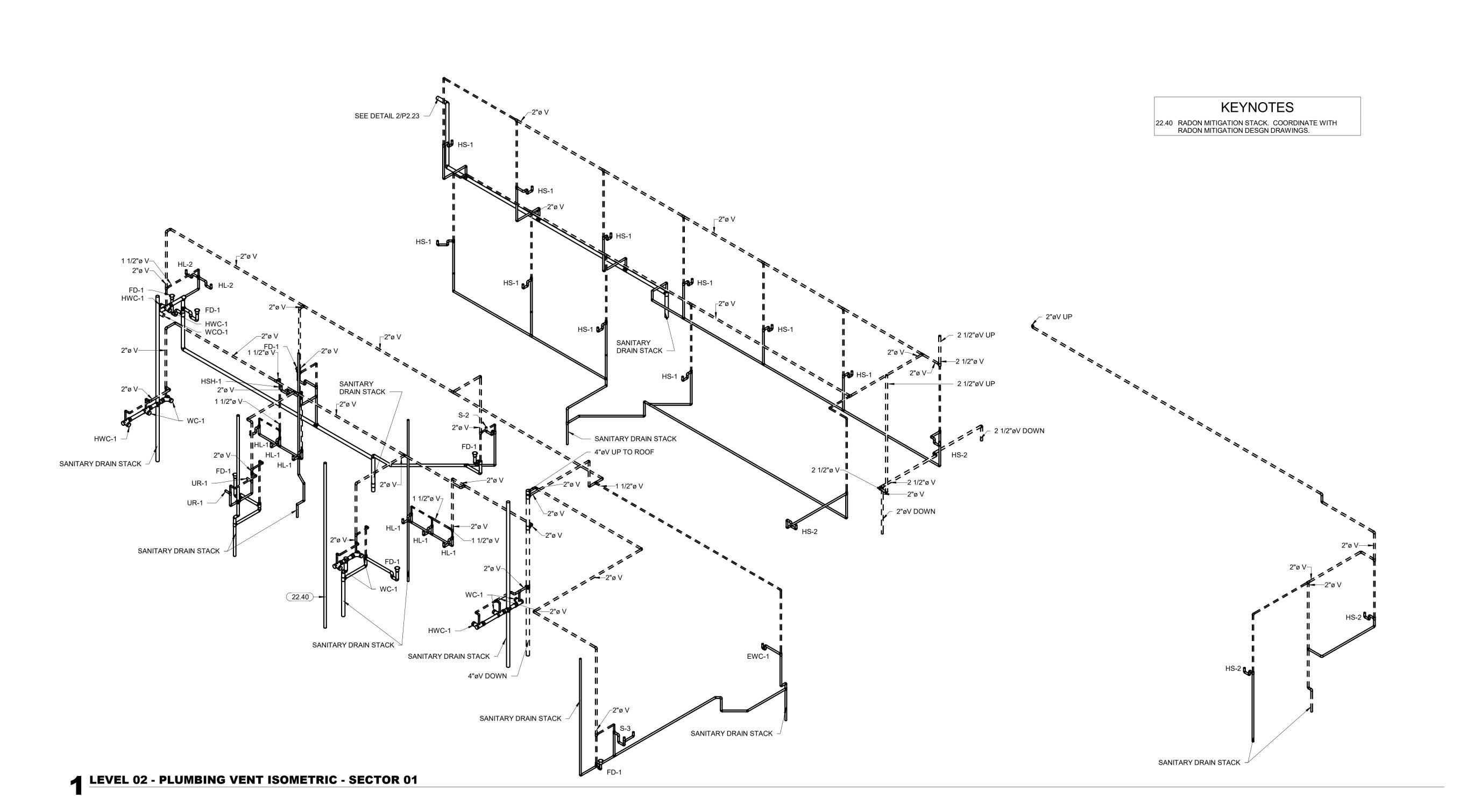
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DATE DESCRIPTION

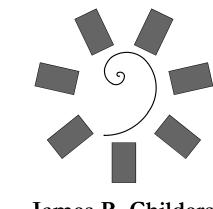
08-23-19

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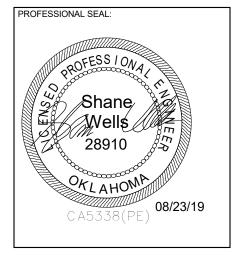
PLUMBING DRAIN PLAN -LEVEL 02 SECTOR 02

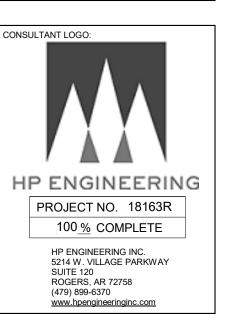
→ LEVEL 02 - PLUMBING VENT ISOMETRIC - SECTOR 02

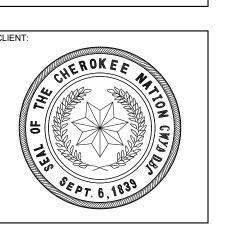




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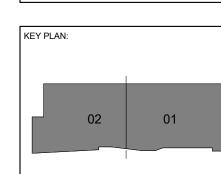


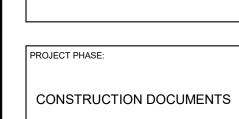








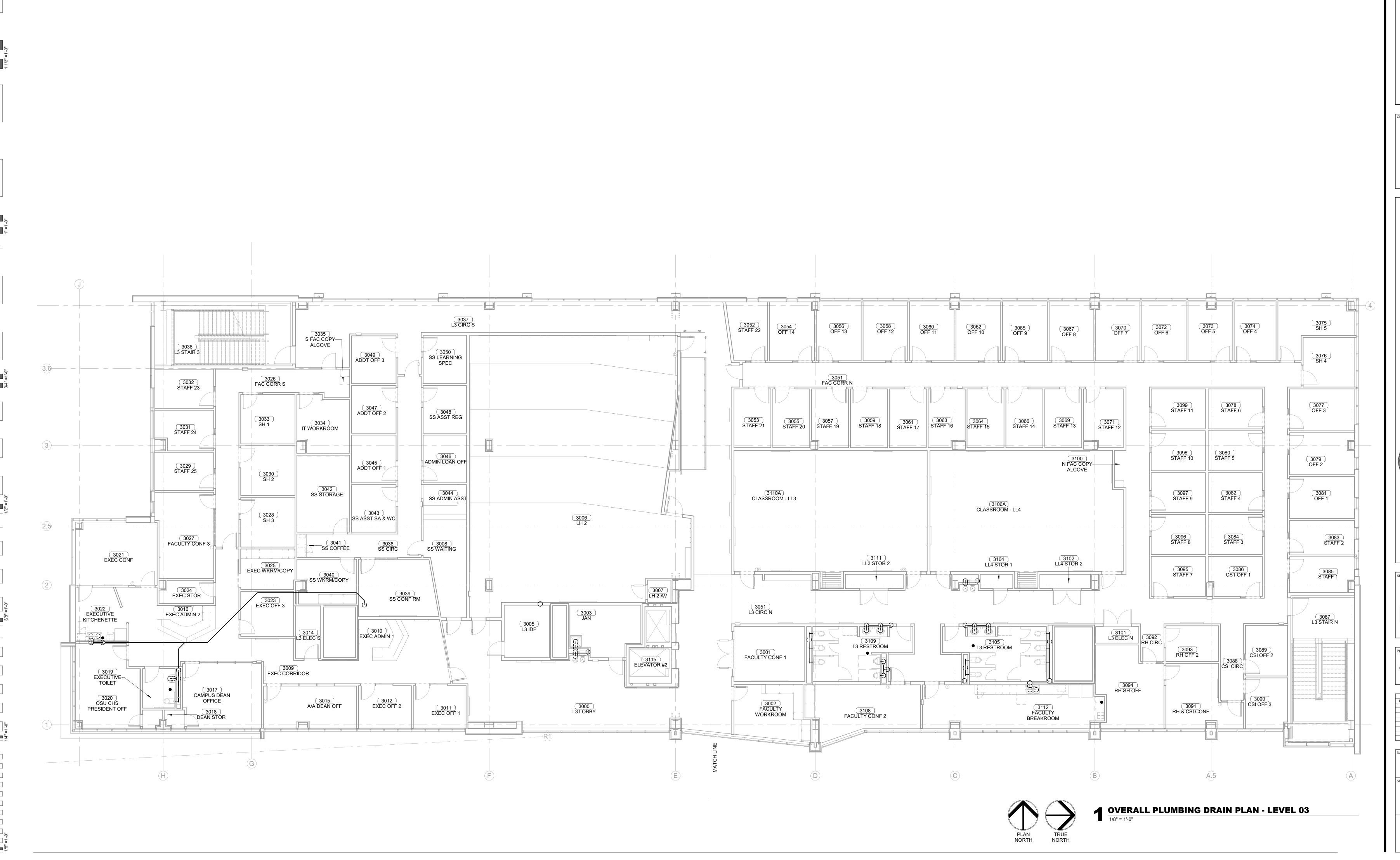


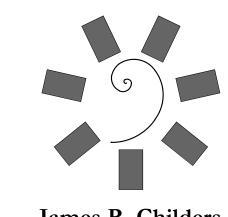


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		REVISIONS	
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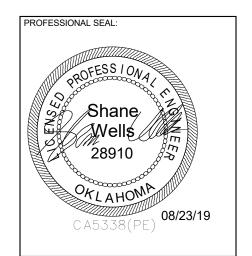
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	08-23-1	9	17	-13
SHI	EET NUMBER	:		
	P2.23			

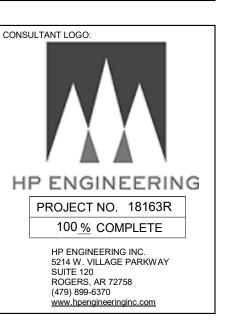
PLUMBING DRAIN/VENT ISOMETRIC LEVEL 02

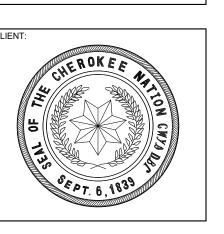




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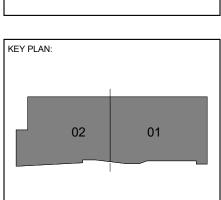


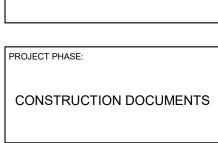




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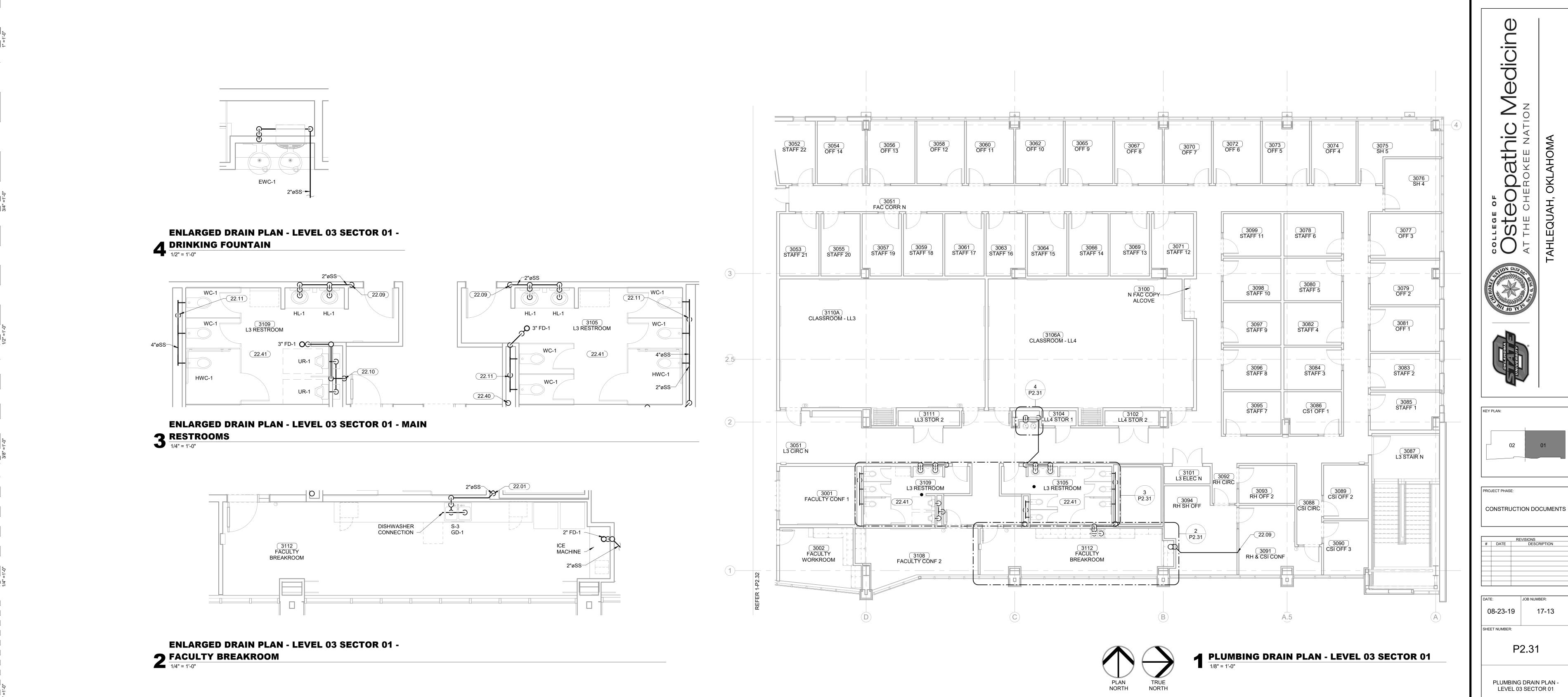
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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
00 00 4	17.40

08-23-19 SHEET NUMBER:

P2.30

OVERALL DRAIN PLAN -LEVEL 03



KEYNOTES

22.01 DIRTY PIPE NEW 2" DRAIN LINE IN WALL TO MAIN

22.40 RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS.

22.41 PROVIDE HOLDRITE SILENCER SYSTEM FOR THIS

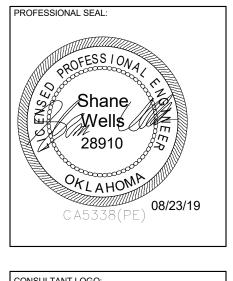
DRAIN LINE.

22.09 2" SANITARY STACK DOWN. 22.10 3" SANITARY STACK DOWN. 22.11 4" SANITARY STACK DOWN. James R. Childers Architect, Inc. 45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com

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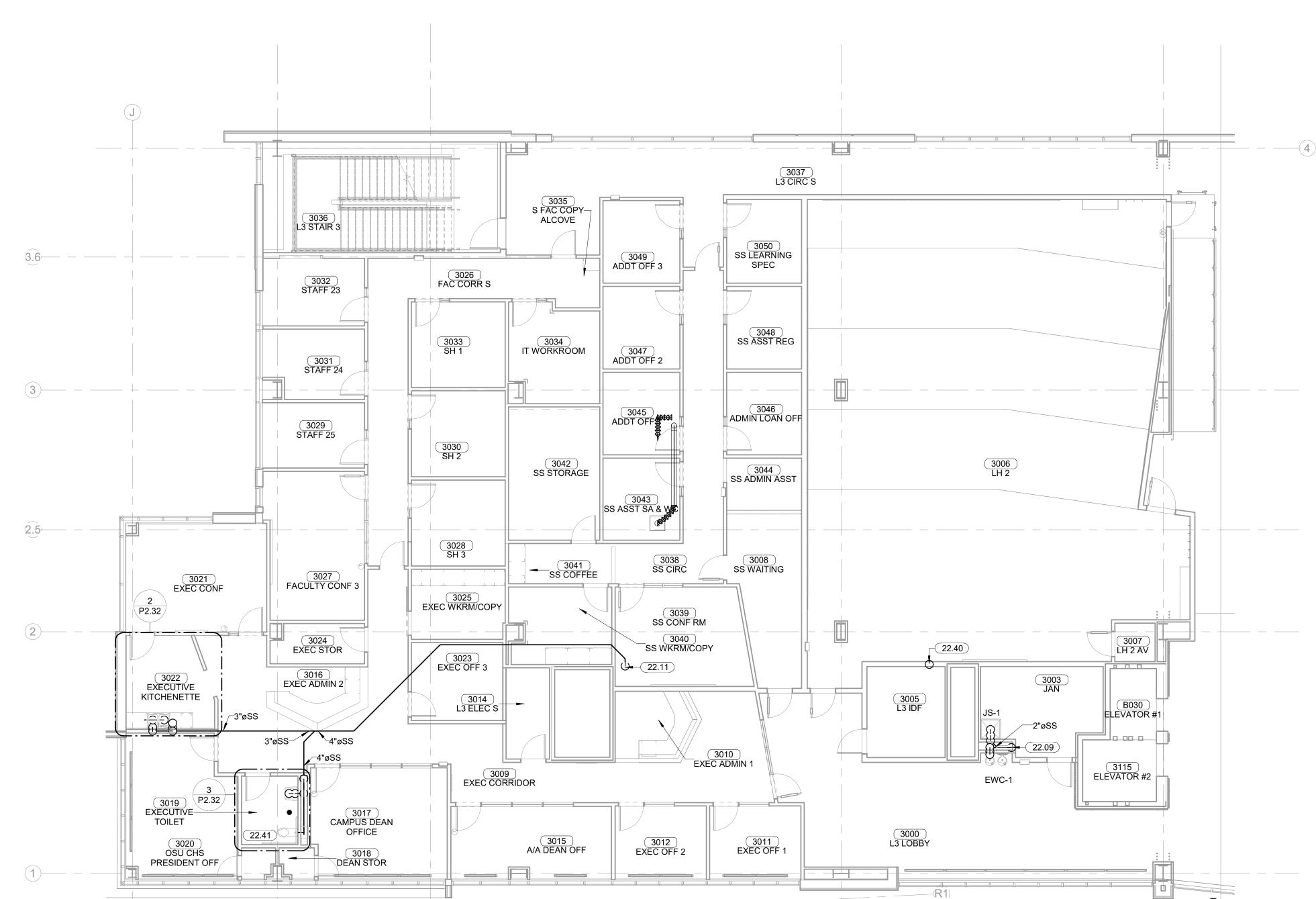
08-23-19 SHEET NUMBER: P2.31

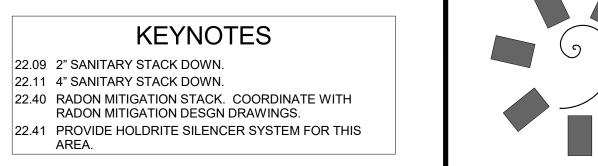
PLUMBING DRAIN PLAN -LEVEL 03 SECTOR 01

3038 SS CIRC SS WAITING FACULTY CONF 3 EXEC CONF EXEC WKRM/COPY P2.32 SS CONF RM ENLARGED DRAIN PLAN - LEVEL 03 SECTOR 02 -SS WKRM/COPY EXECUTIVE TLT 1/4" = 1'-0" EXEC STOR EXEC OFF 3 22.11 EXEC ADMIN 2 EXECUTIVE KITCHENETTE L3 ELEC S 3"øSS EXECUTIVE KITCHENETTE CAMPUS DEAN OFFICE 3000 L3 LOBBY A/A DEAN OFF EXEC OFF 1 EXEC OFF 2 OSU CHS PRESIDENT OFF - DISHWASHER CONNECTION S-3 GD-1 ENLARGED DRAIN PLAN - LEVEL 03 SECTOR 02 - EXEC. PLUMBING DRAIN PLAN - LEVEL 03 SECTOR 02

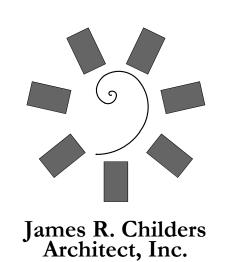
1/8" = 1'-0" **KITCHENETTE**1/4" = 1'-0"

3019 EXECUTIVE TOILET





AREA.



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PLUMBING DRAIN PLAN -LEVEL 03 SECTOR 02

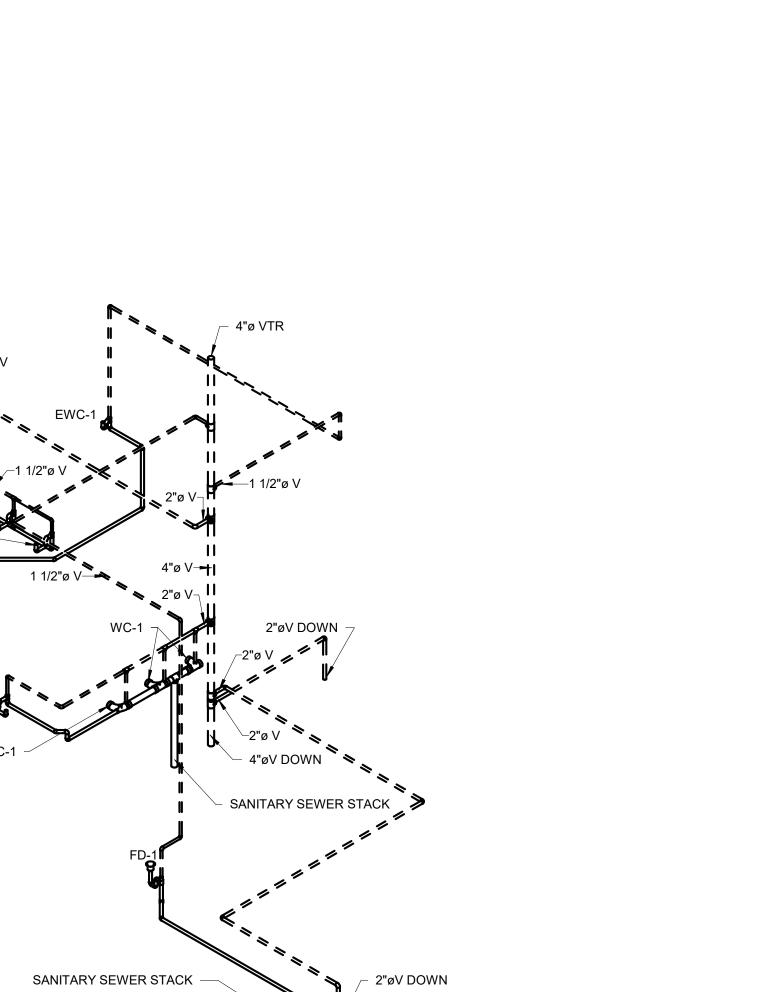
PROFESSIONAL SEAL:

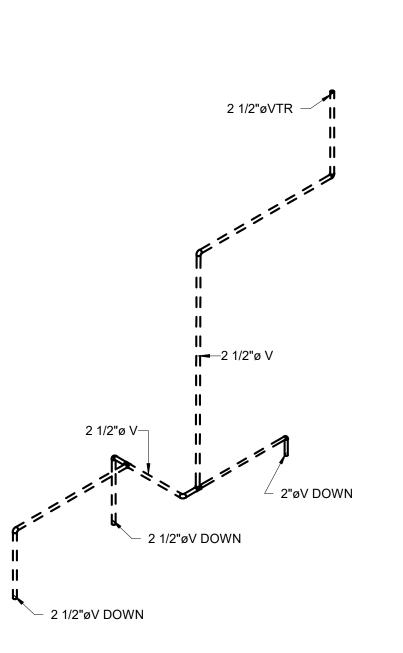
SANITARY SEWER STACK

SANITARY SEWER STACK \angle

LEVEL 03 - PLUMBING VENT ISOMETRIC - SECTOR 02

KEYNOTES 22.40 RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS.

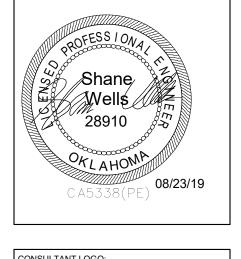


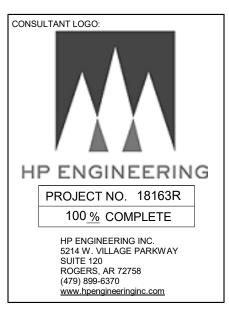


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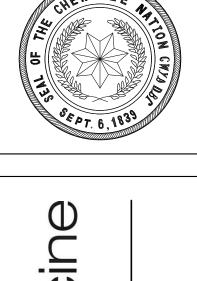
479-783-2480 www.childersarchitect.com PROFESSIONAL SEAL:

45 South 4th Street Fort Smith, AR 72901

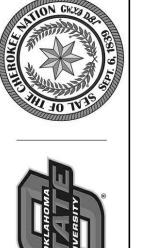




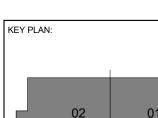


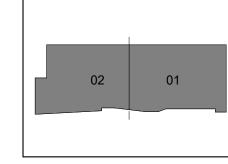












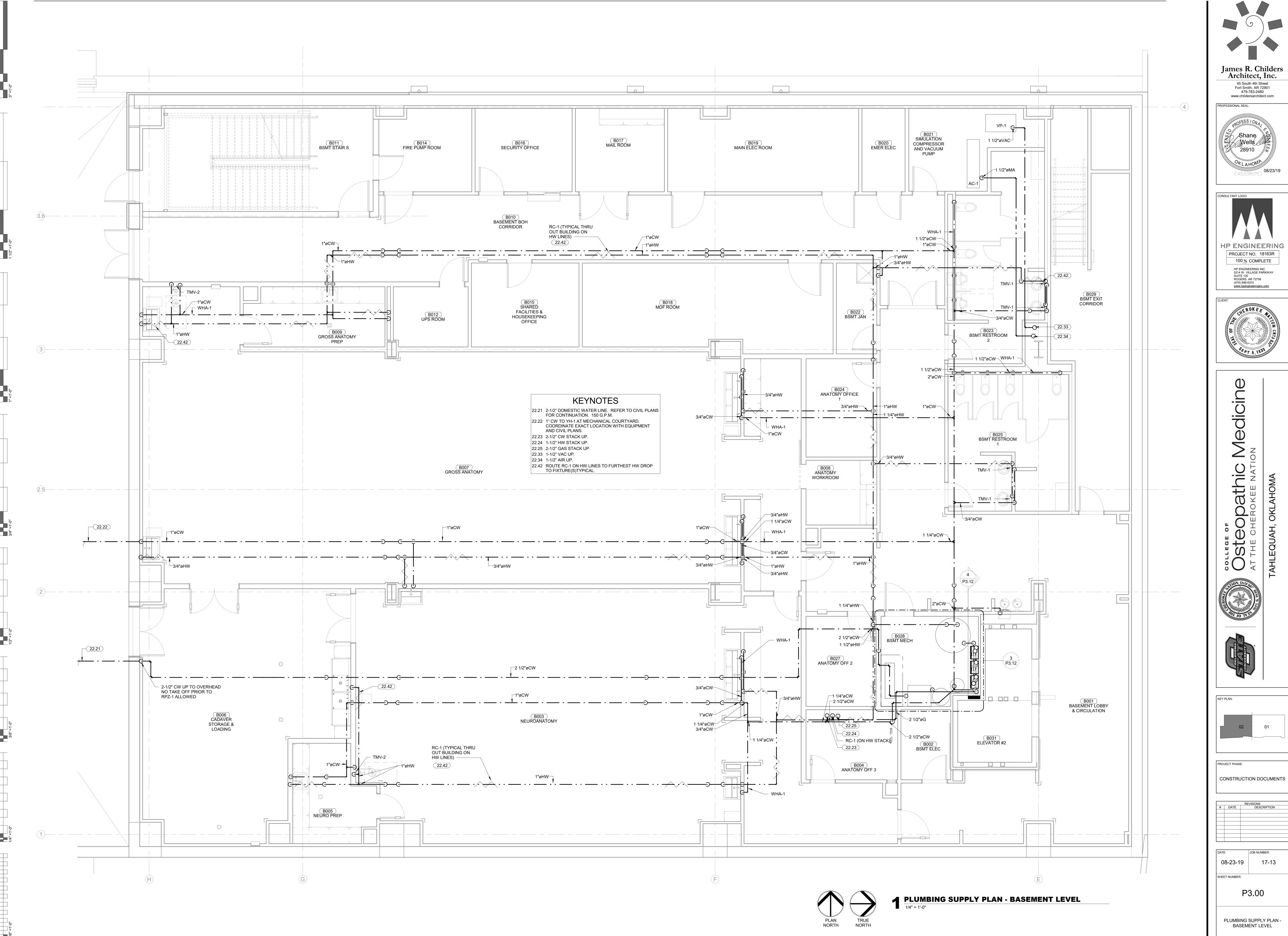
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

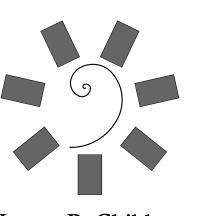
	REVISIONS		
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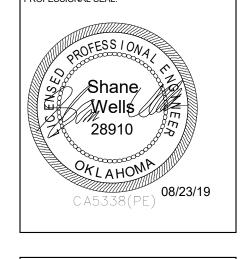
PLUMBING DRAIN/VENT ISOMETRIC LEVEL 03

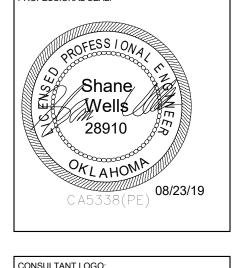
LEVEL 03 - PLUMBING VENT ISOMETRIC - SECTOR 01





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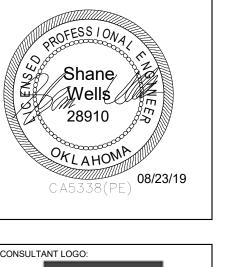
PROJECT NO. 18163R 100 % COMPLETE

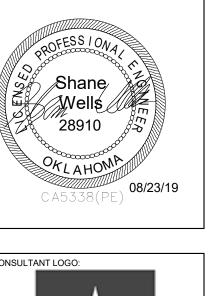
HP ENGINEERING INC. 5214 W. VILLAGE PARKWAY SUITE 120 ROGERS, AR 72758 (479) 899-6370 www.hpengineeringinc.com

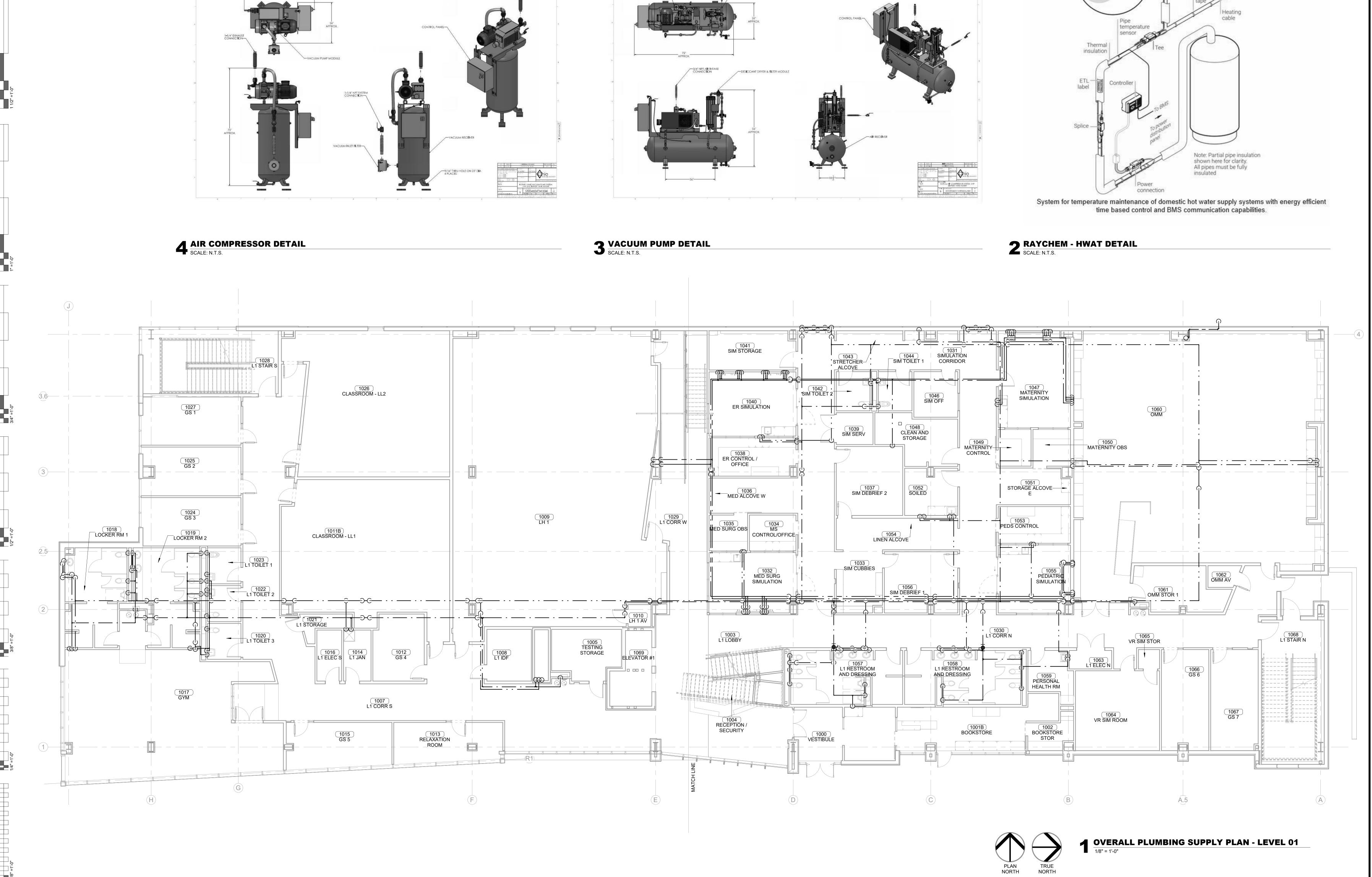
SHEROKEE NATIO

P3.00

PLUMBING SUPPLY PLAN -BASEMENT LEVEL





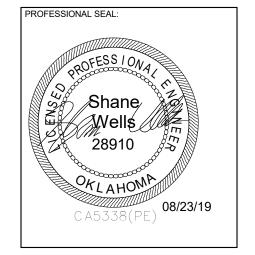


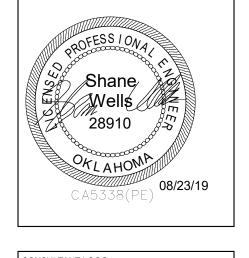
AIR INLET FILTER—

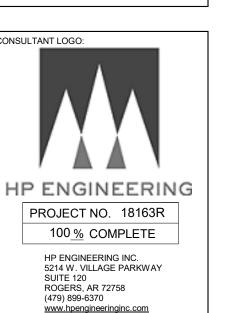
\$Y\$15M LISTED ARE 460M. IF ANOTHER YOLTA GE & REQUIRED, USE THE FOLICOMING PART NUMBERS.

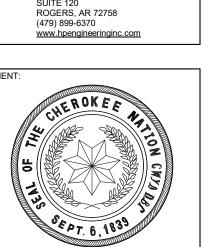
VOLTAGE \$\$\text{SYSTEM PAN}\$ PLMP MCDULE P/N TRIP MCDULE P/N
2004-0-3 AC\$300-209-11-800-00-48 100-0215 214537
2004-0-3 AC\$300-209-11-800-00-48 100-0215 214537

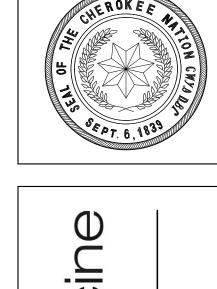
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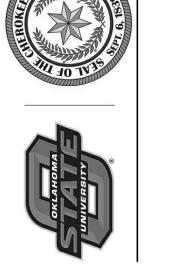


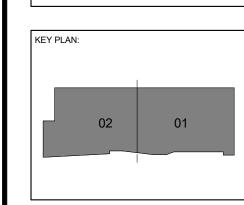


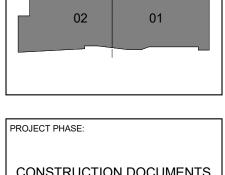












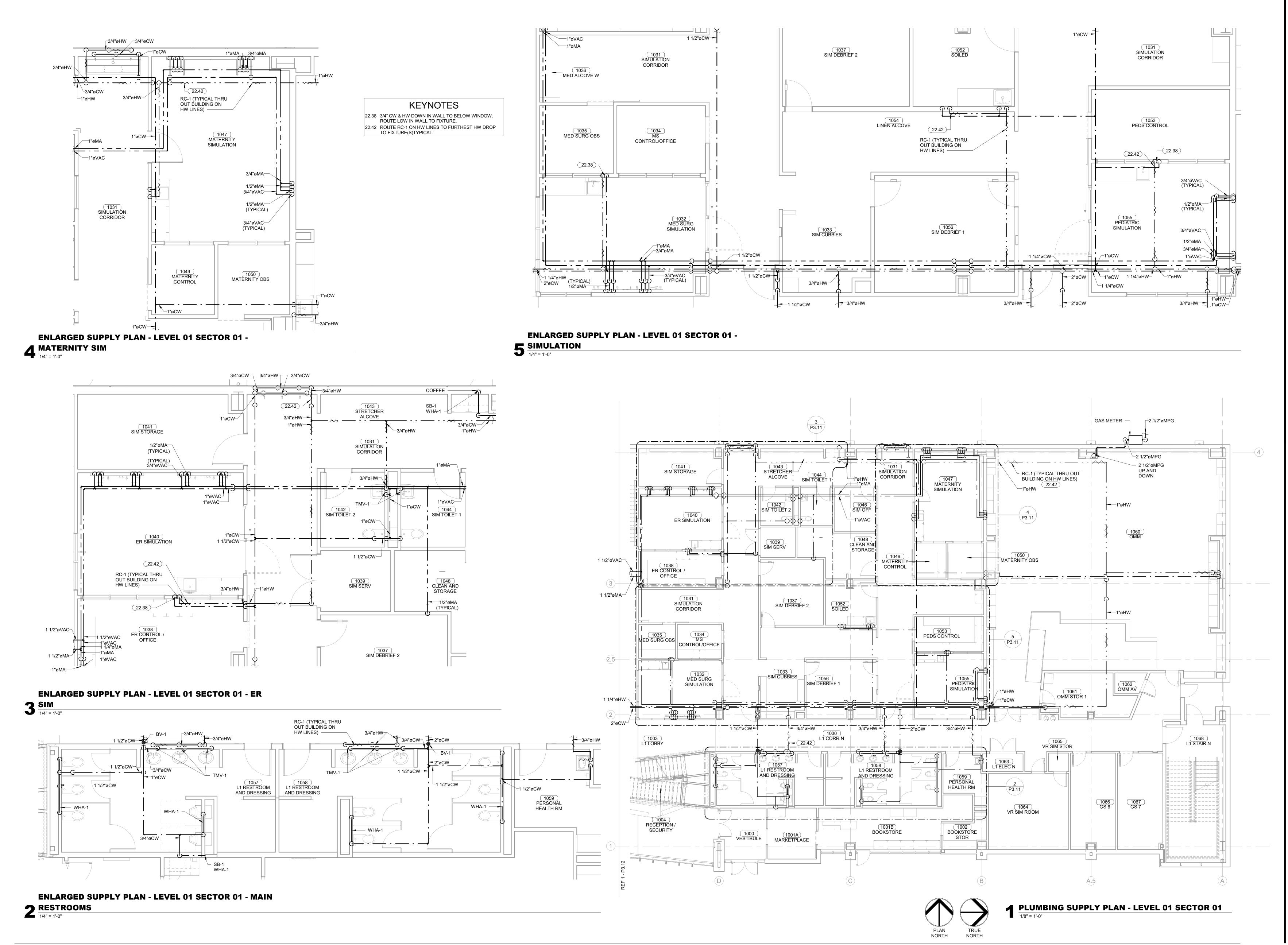
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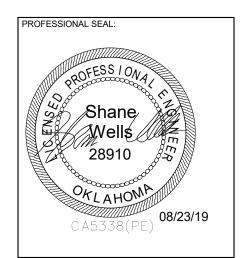
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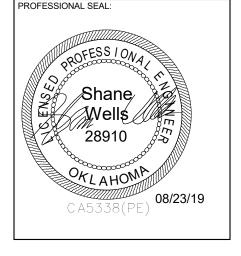
P3.10

OVERALL SUPPLY PLAN -LEVEL 01

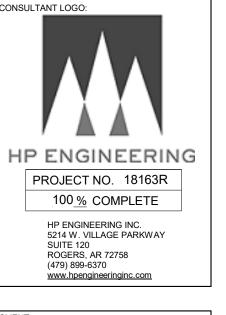


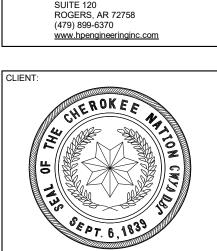
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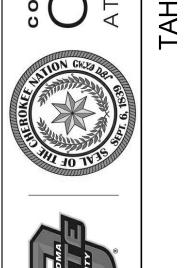


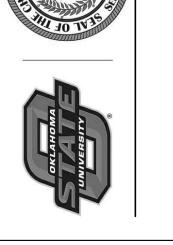


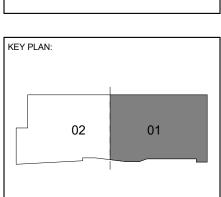


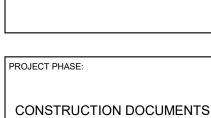












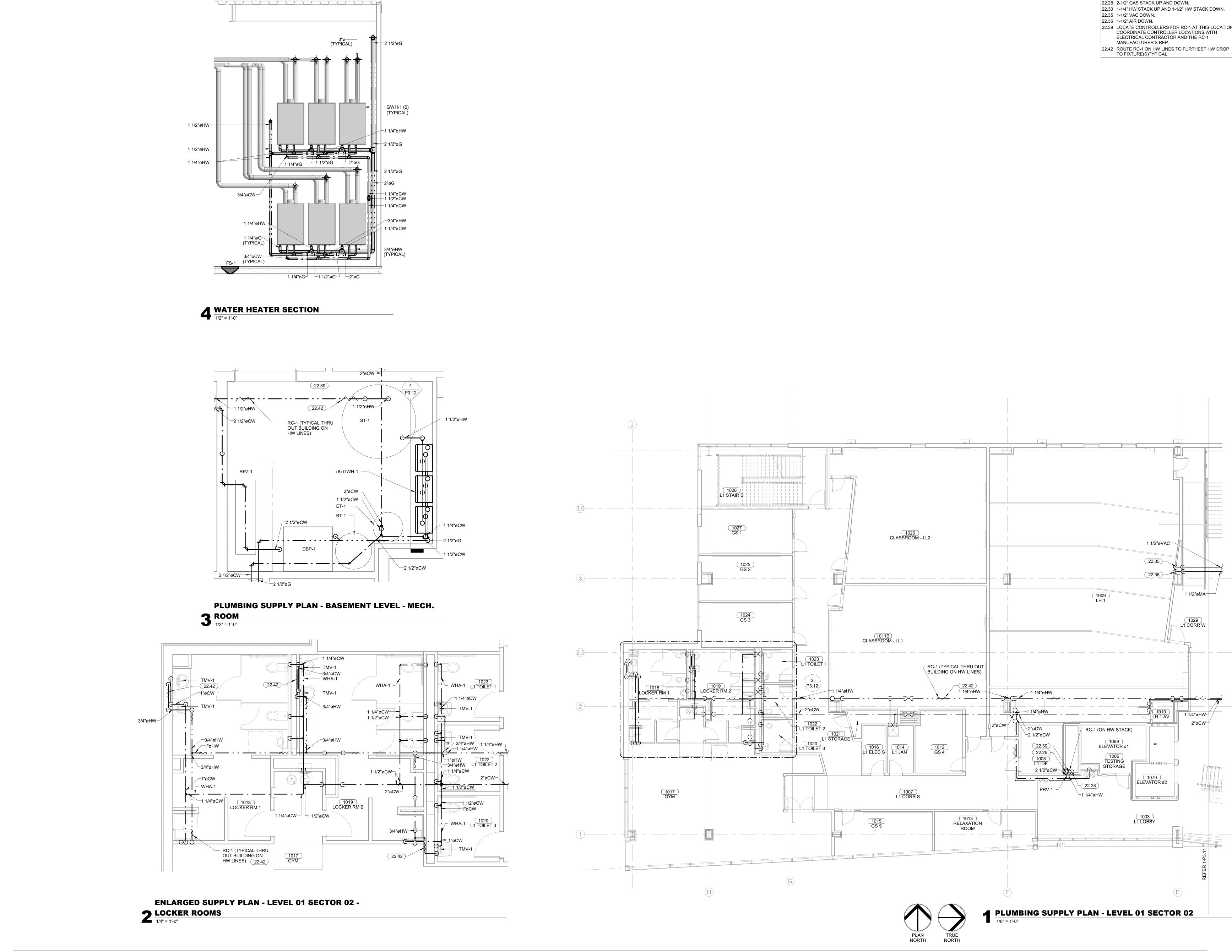
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P3.11

PLUMBING SUPPLY PLAN -LEVEL 01 SECTOR 01



KEYNOTES

22.26 2" CW STACK UP AND 2-1/2" CW DOWN. PROVIDE

22.28 2-1/2" GAS STACK UP AND DOWN. 22.30 1-1/4" HW STACK UP AND 1-1/2" HW STACK DOWN.

22.35 1-1/2" VAC DOWN. 22.36 1-1/2" AIR DOWN.

1 1/2"øVAC-

1070 ELEVATOR #2

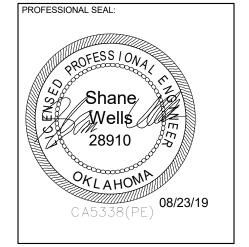
1003 L1 LOBBY

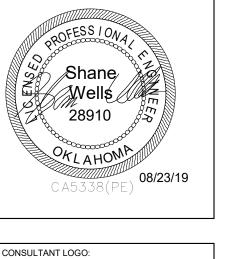
1 1/2"øMA

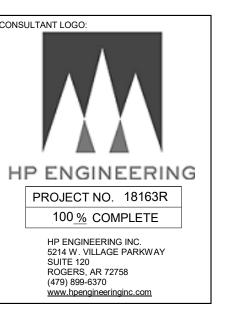
1029 L1 CORR W

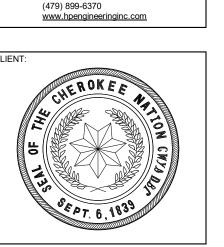
22.39 LOCATE CONTROLLERS FOR RC-1 AT THIS LOCATION. COORDINATE CONTROLLER LOCATIONS WITH ELECTRICAL CONTRACTOR AND THE RC-1 MANUFACTURER'S REP.

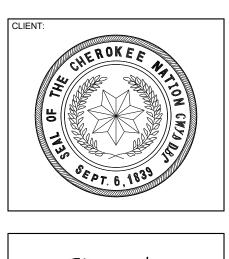




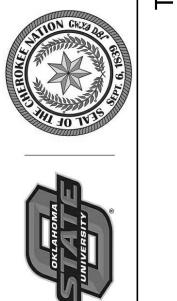


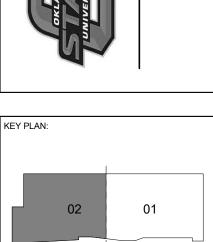


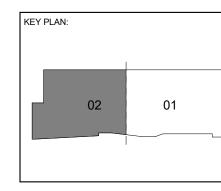


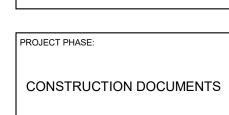










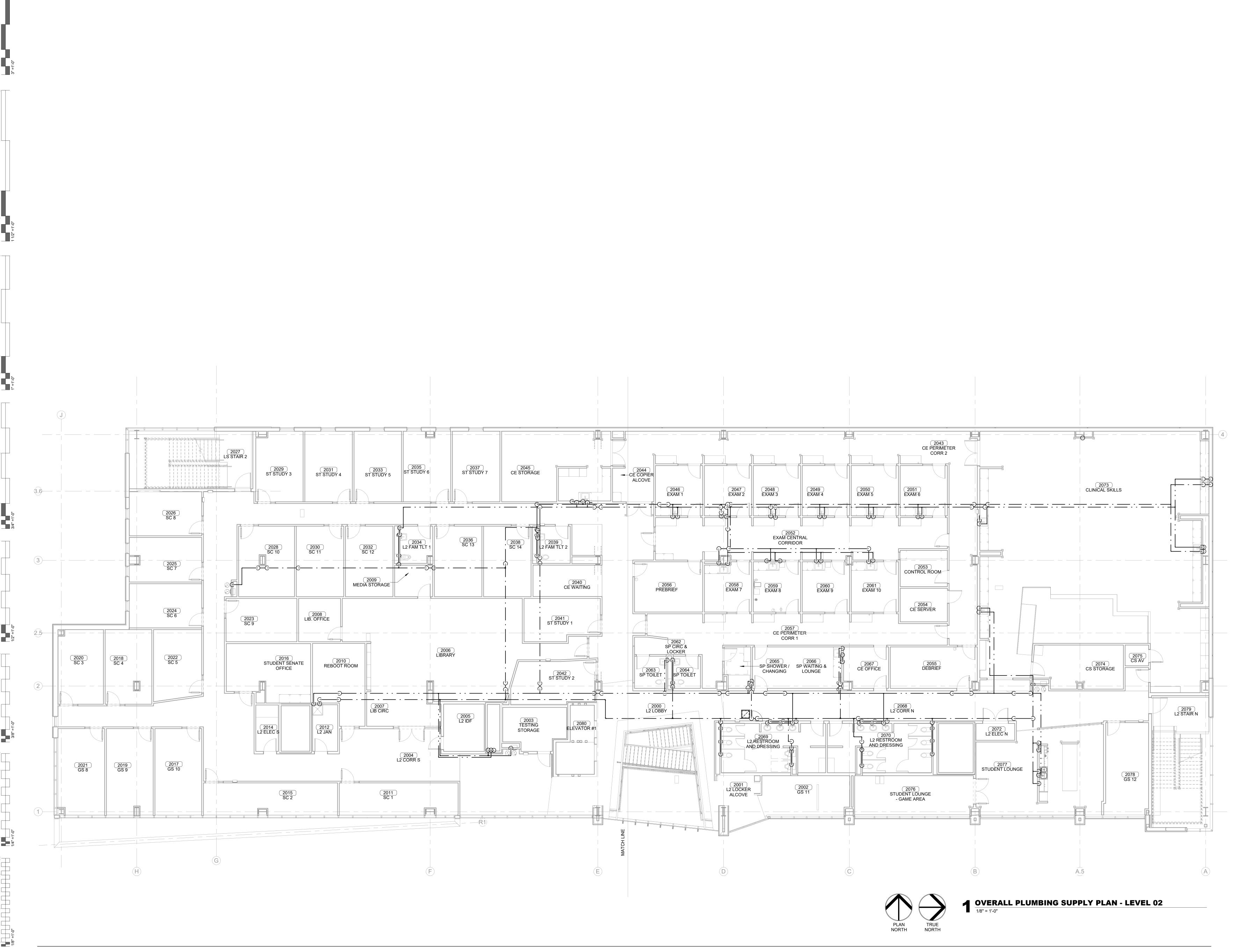


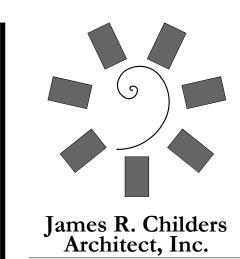
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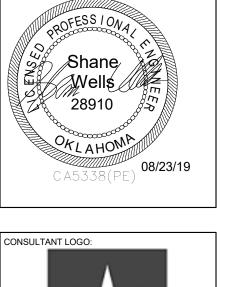
PLUMBING SUPPLY PLAN -LEVEL 01 SECTOR 02

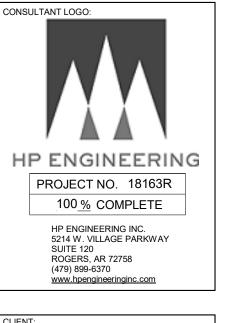


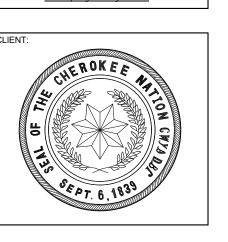


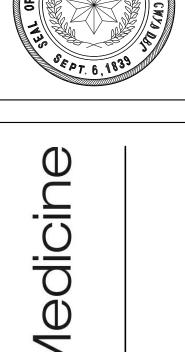


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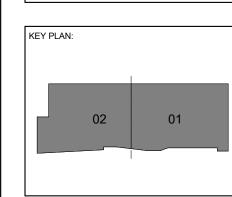


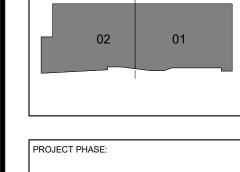












PROJECT PHASE:
CONSTRUCTION DOCUMENT
CONCINCOTION BOOGMENT

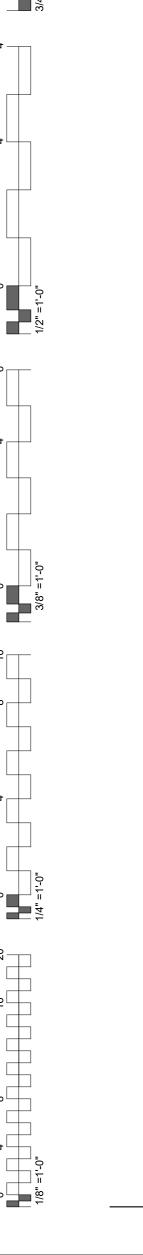
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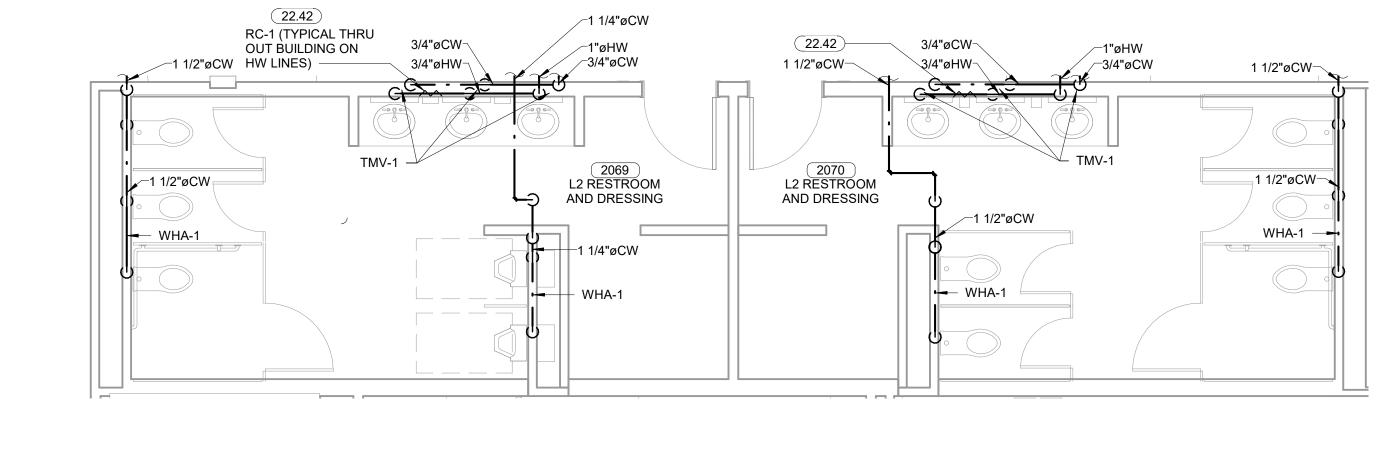
P3.20 OVERALL SUPPLY PLAN -

LEVEL 02



RESTROOMS1/4" = 1'-0"

ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - MAIN



ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - SP 3 CIRC & LOCKER
1/4" = 1'-0"

3/4"øHW−−

 $4 \frac{\text{STUDENT LOUNGE}}{1/4" = 1'-0"}$

RC-1 (TYPICAL THRU OUT BUILDING ON

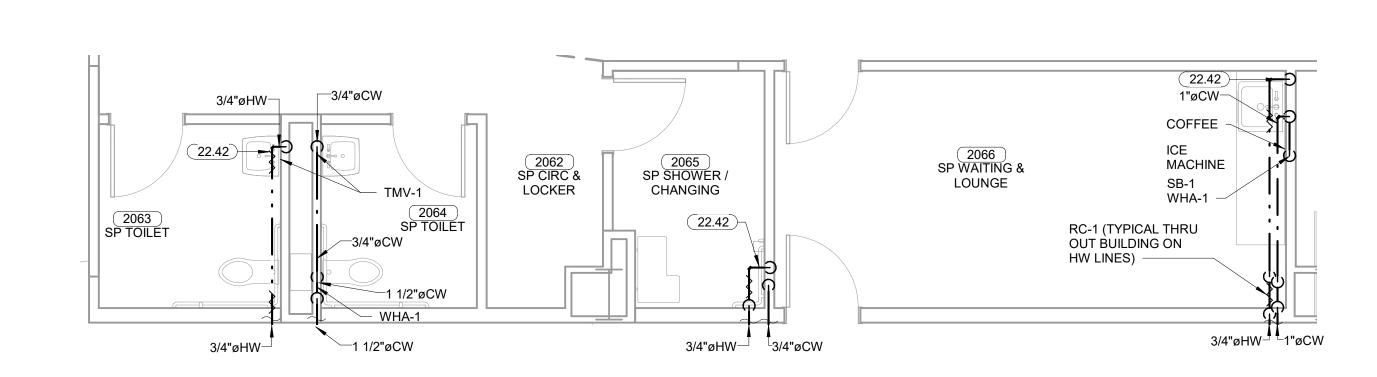
ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 -

2077 STUDENT LOUNGE

■ WHA-1

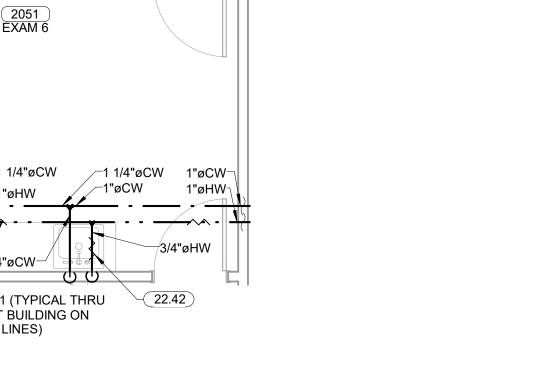
IHF-1

WHA-1 ICE MACHINE



ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 -5 TYPICAL EXAM ROOM

1/4" = 1'-0"



RC-1 (TYPICAL THRU OUT BUILDING ON ENLARGED2SUPPLY PLAN - LEVEL 02 SECTOR 01 -6 DRINKING FOUNTAIN

1/2" = 1'-0"

2047 EXAM 2

2058 EXAM 7

2001 L2 LOCKER ALCOVE

2059 EXAM 8

2065 SP SHOWER /

CHANGING

2069 L2 RESTROOM

2057 CE PERIMETER CORR 1

_1"øHW∐ _1"øCW

1 1/2"øCW

2056 PREBRIEF

SP CIRC & LOCKER

_1 1/2"øCW

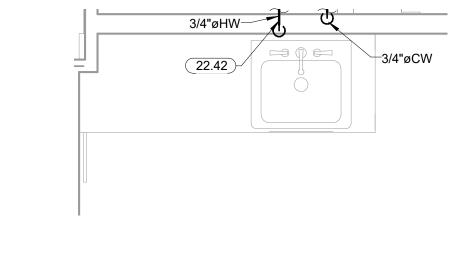
2049 EXAM 4

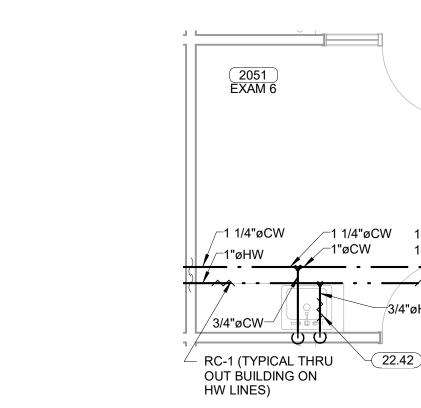
2060 EXAM 9

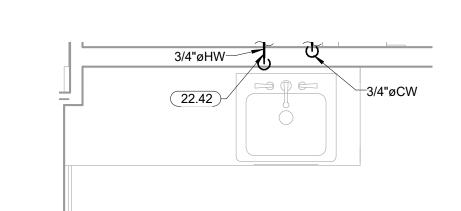
2066 SP WAITING & LOUNGE

2043 CE PERIMETER

1 1/2"øCW¬







ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 -

RC-1 (TYPICAL THRU OUT BUILDING ON HW LINES)

22.42

3/4"øCW-

2077 STUDENT LOUNGE

2073 CLINICAL SKILLS

2079 L2 STAIR N

P3.21

✓ PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 01

7 TYPICAL SINK

1/2" = 1'-0"

2051 EXAM 6

2053 CONTROL ROOM

2054 CE SERVER

2076 STUDENT LOUNGE - GAME AREA

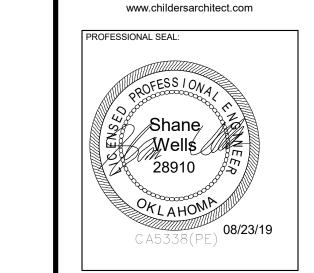
1 1/4"øCW⁻∖

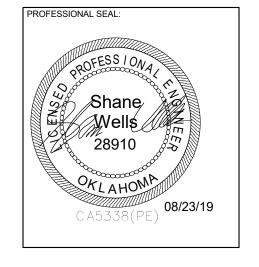
2061 7 EXAM 10 P3.21

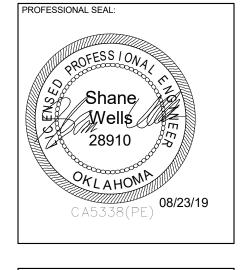
1"øHW __2"øCW

L2 RESTROOM

CE PERIMETER CORR 2







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HP ENGINEERING INC. 5214 W. VILLAGE PARKWAY SUITE 120 ROGERS, AR 72758

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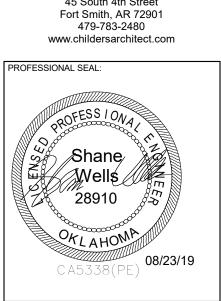
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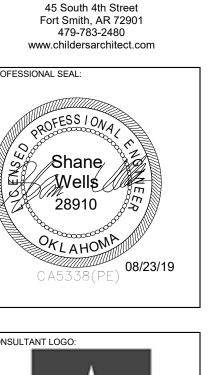
CONSTRUCTION DOCUMENTS

P3.21

PLUMBING SUPPLY PLAN -LEVEL 02 SECTOR 01

REVISIONS
DATE DESCRIPTION



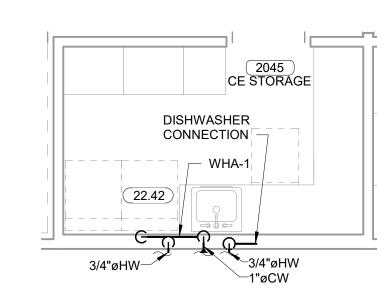


ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 -**3** TYPICAL FAM. TLT 1/4" = 1'-0"

RC-1 (TYPICAL THRU OUT BUILDING ON HW LINES)

∕=3/4"øCW _1 1/4"øCW

> ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 - CE **2** STORAGE 1/4" = 1'-0"



ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 -5 DRINKING FOUNTAIN

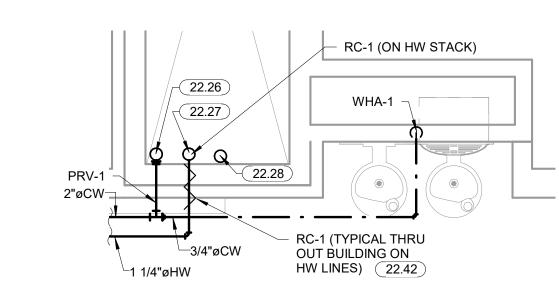
1/2" = 1'-0" **4** TYPICAL JAN.

1/4" = 1'-0"

3/4"øCW

3/4"øHW

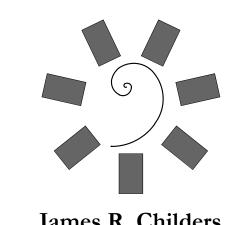
2012 L2 JAN



2037 ST STUDY 7 2045 CE STORAGE 2029 ST STUDY 3 ST STUDY 4 P3.22 3 P3.22 2034 L2 FAM TLT 1 1"øCW~ 1 1/4"øCW~ 1 1/4"øCW─ 2040 CE WAITING 2009 MEDIA STORAGE 2008 LIB. OFFICE 2024 SC 6 2041 ST STUDY 1 2016 STUDENT SENATE 2010 REBOOT ROOM RC-1 (TYPICAL THRU OUT BUILDING ON HW LINES) — ST STUDY 2 1 1/4"øHW¬ ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 -1"øCW 1 1/4"øHW^{_} 2080 ELEVATOR #1 2014 L2 ELEC S ELEVATOR #2 1 1/4"øHW 2021 GS 8 2017 GS 10

2027 LS STAIR 2

KEYNOTES 22.26 2" CW STACK UP AND 2-1/2" CW DOWN. PROVIDE 22.27 1-1/4" HW STACK UP AND DOWN. 22.28 2-1/2" GAS STACK UP AND DOWN. 22.42 ROUTE RC-1 ON HW LINES TO FURTHEST HW DROP TO FIXTURE(S)TYPICAL.



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HP ENGINEERING PROJECT NO. 18163R 100 % COMPLETE

HP ENGINEERING INC. 5214 W. VILLAGE PARKWAY SUITE 120 ROGERS, AR 72758

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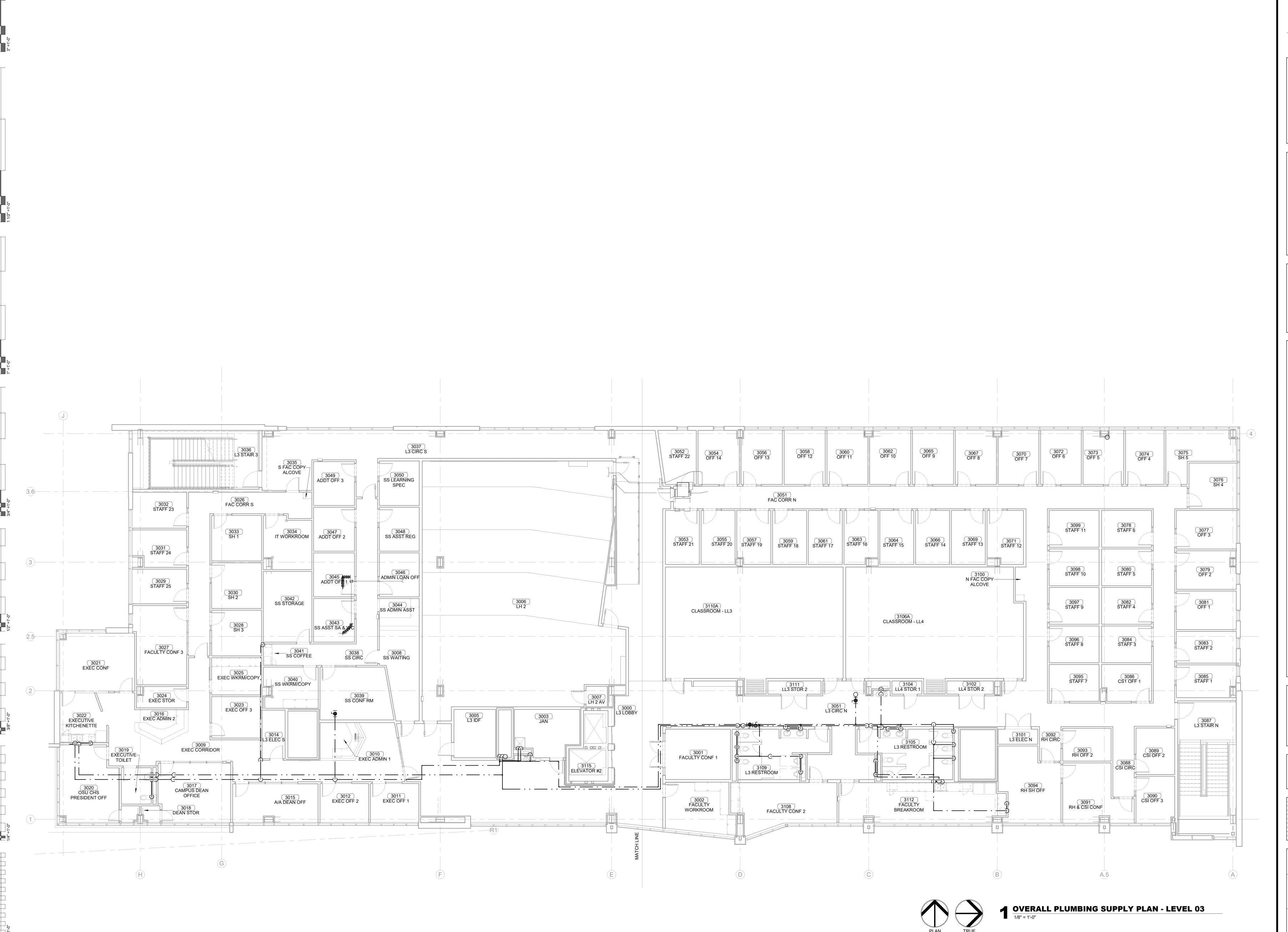
PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 02

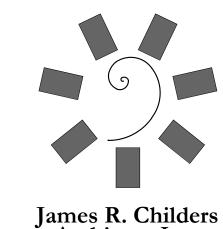
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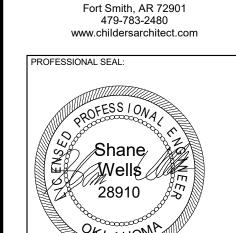
PLUMBING SUPPLY PLAN -LEVEL 02 SECTOR 02

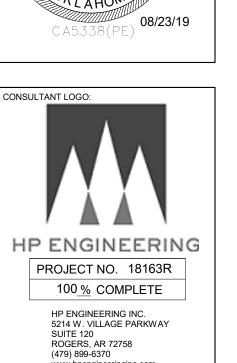
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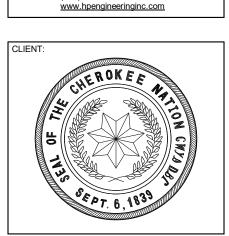




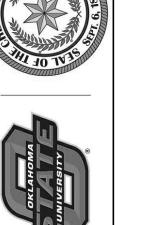
Architect, Inc. 45 South 4th Street

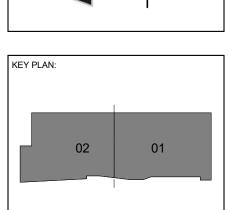


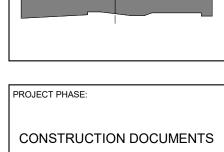












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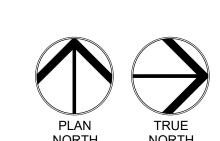
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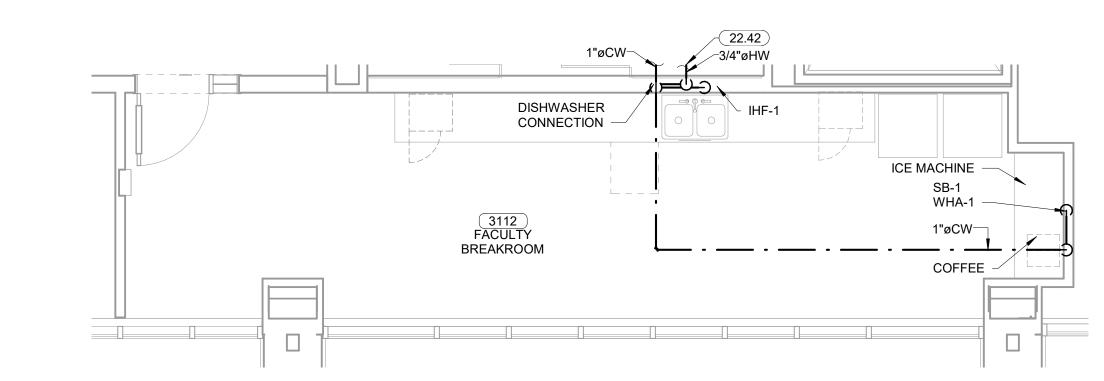
OVERALL SUPPLY PLAN -LEVEL 03

ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 01 -2 FACULTY BREAKROOM

1/4" = 1'-0"

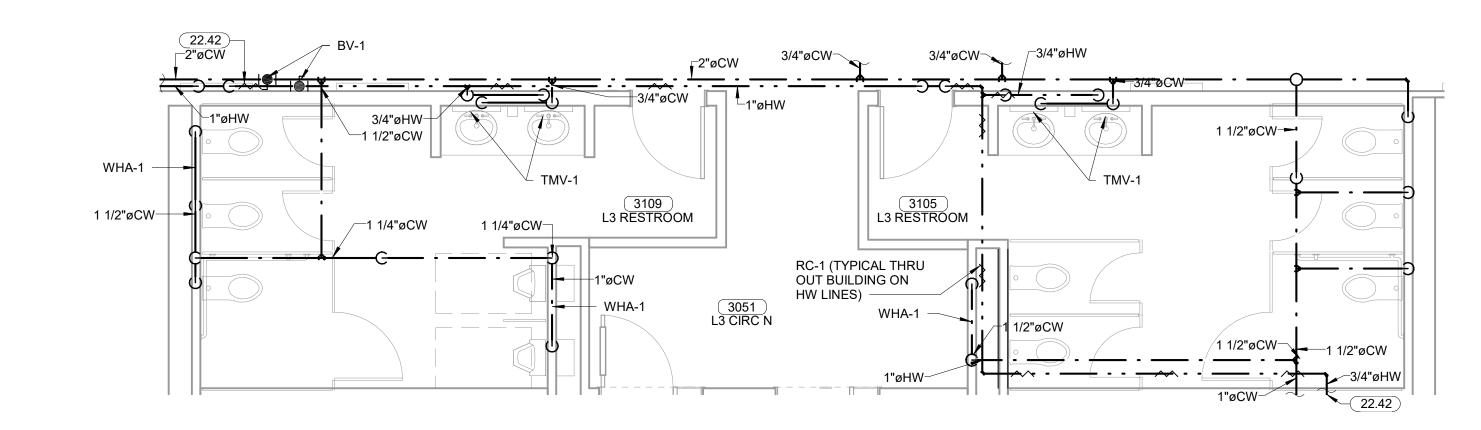


PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 01



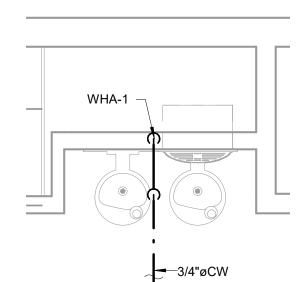
3 RESTROOMS 1/4" = 1'-0"

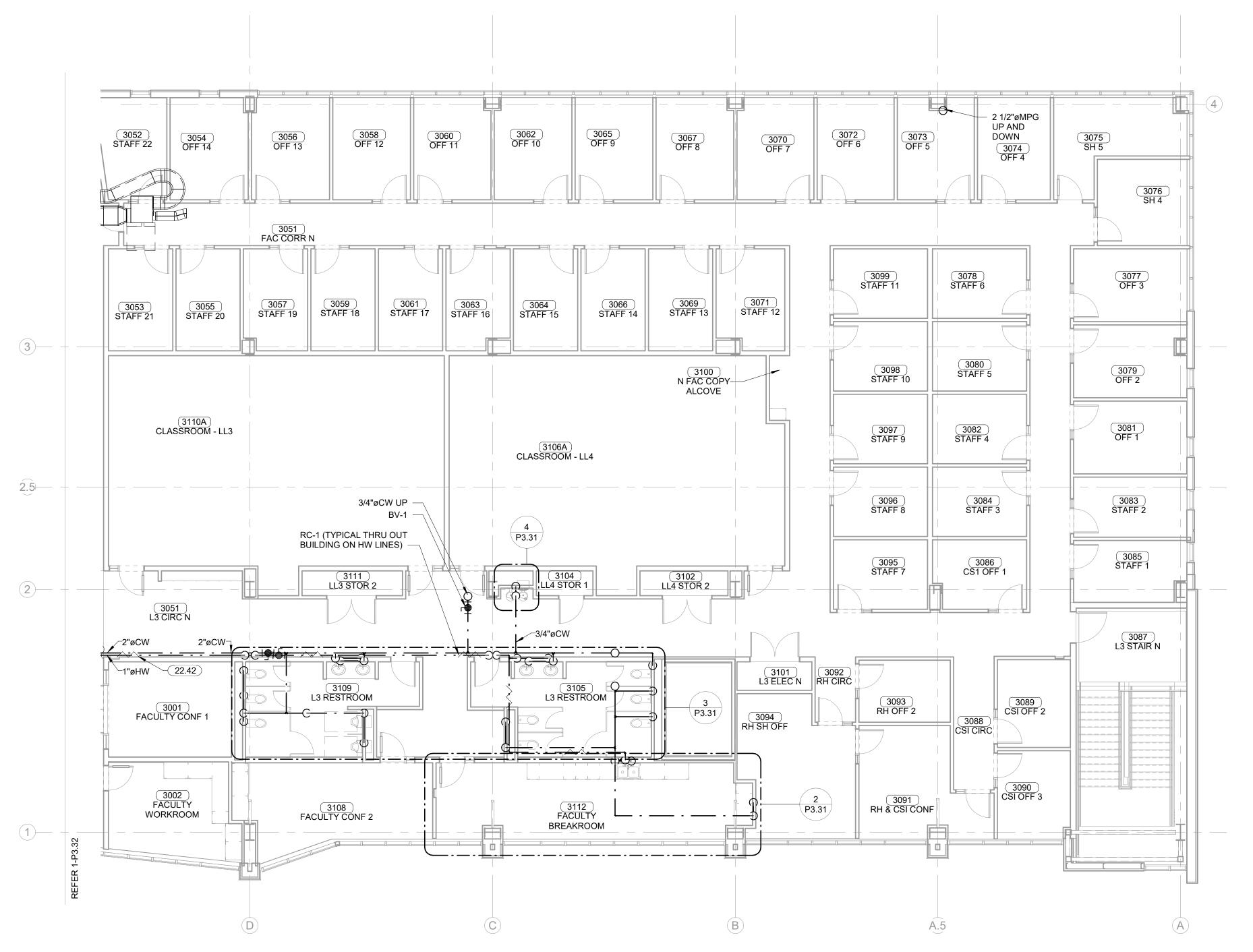
ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 01 - MAIN



ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 01 -4 DRINKING FOUNTAIN

1/2" = 1'-0"





KEYNOTES 22.42 ROUTE RC-1 ON HW LINES TO FURTHEST HW DROP TO FIXTURE(S)TYPICAL.



PROJECT PHASE:

08-23-19

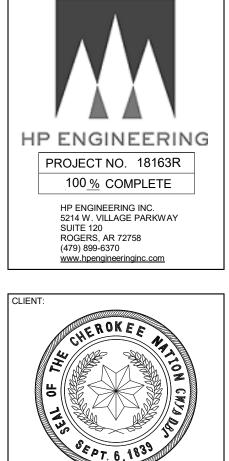
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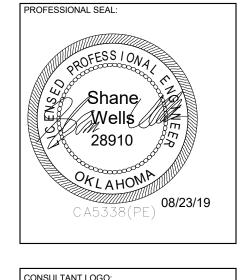
CONSTRUCTION DOCUMENTS

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PLUMBING SUPPLY PLAN -LEVEL 03 SECTOR 01

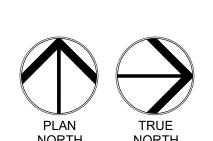








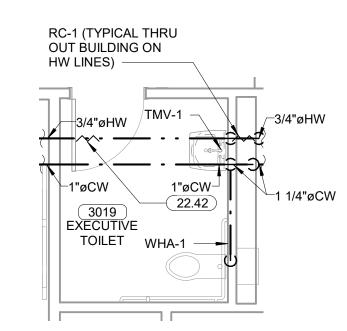
ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 02 - EXEC. **2 KITCHENETTE**1/4" = 1'-0"

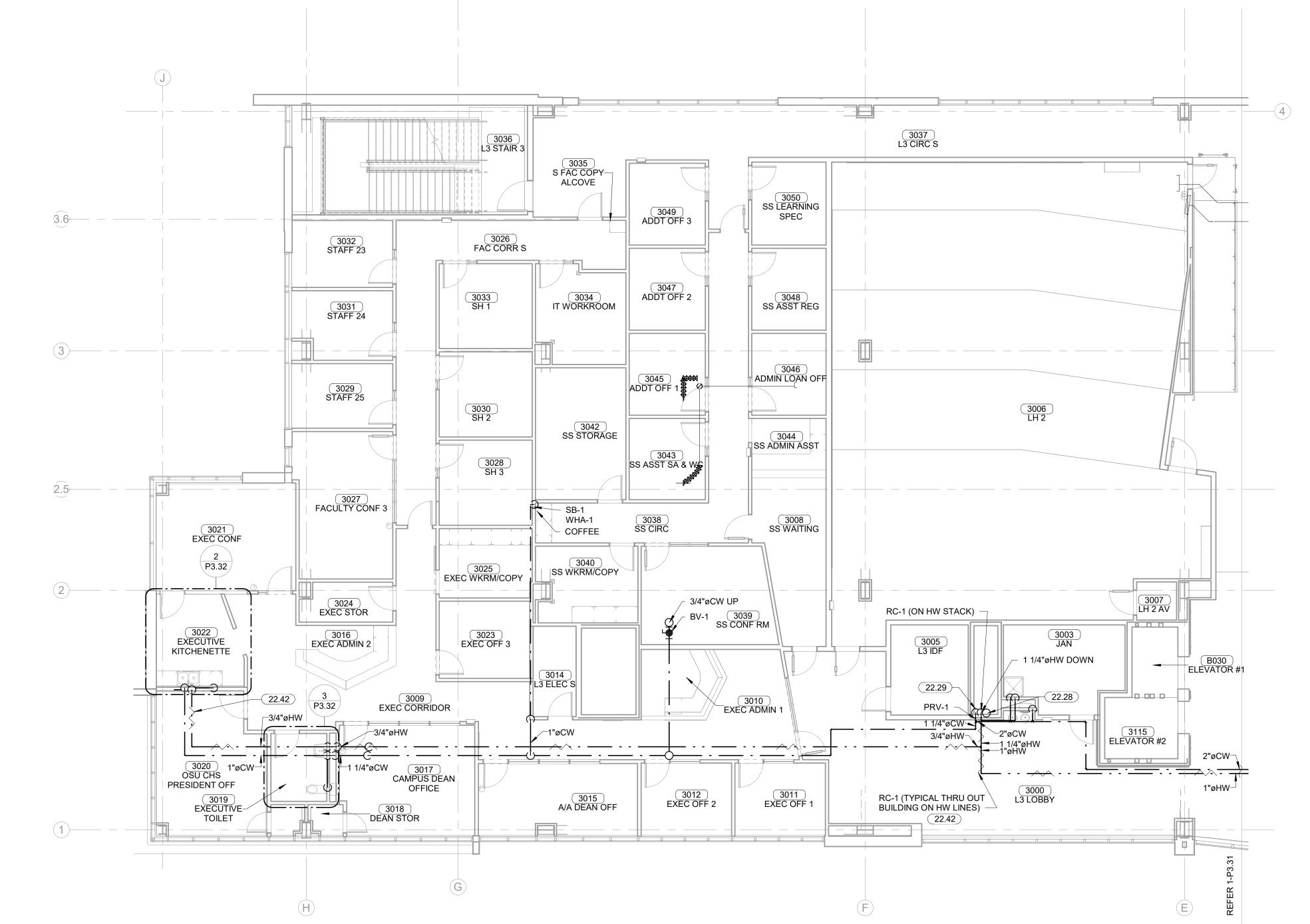


↑ PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 02

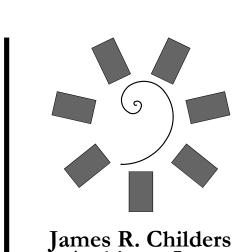
3022 EXECUTIVE KITCHENETTE DISHWASHER CONNECTION ICE MAKER (WHA-1 1"øCW - 3/4"øHW 22.42

ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 02 -**3** EXECUTIVE TLT 1/4" = 1'-0"

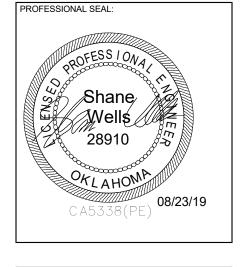


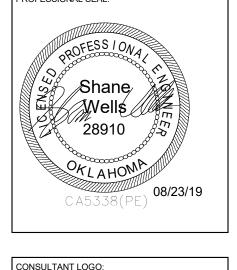


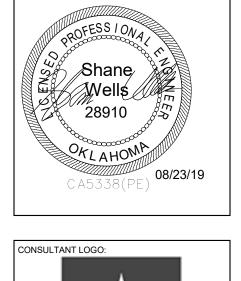
22.28 2-1/2" GAS STACK UP AND DOWN. 22.29 2" CW STACK DOWN. PROVIDE PRV-1. 22.42 ROUTE RC-1 ON HW LINES TO FURTHEST HW DROP TO FIXTURE(S)TYPICAL.

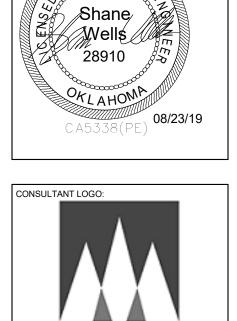


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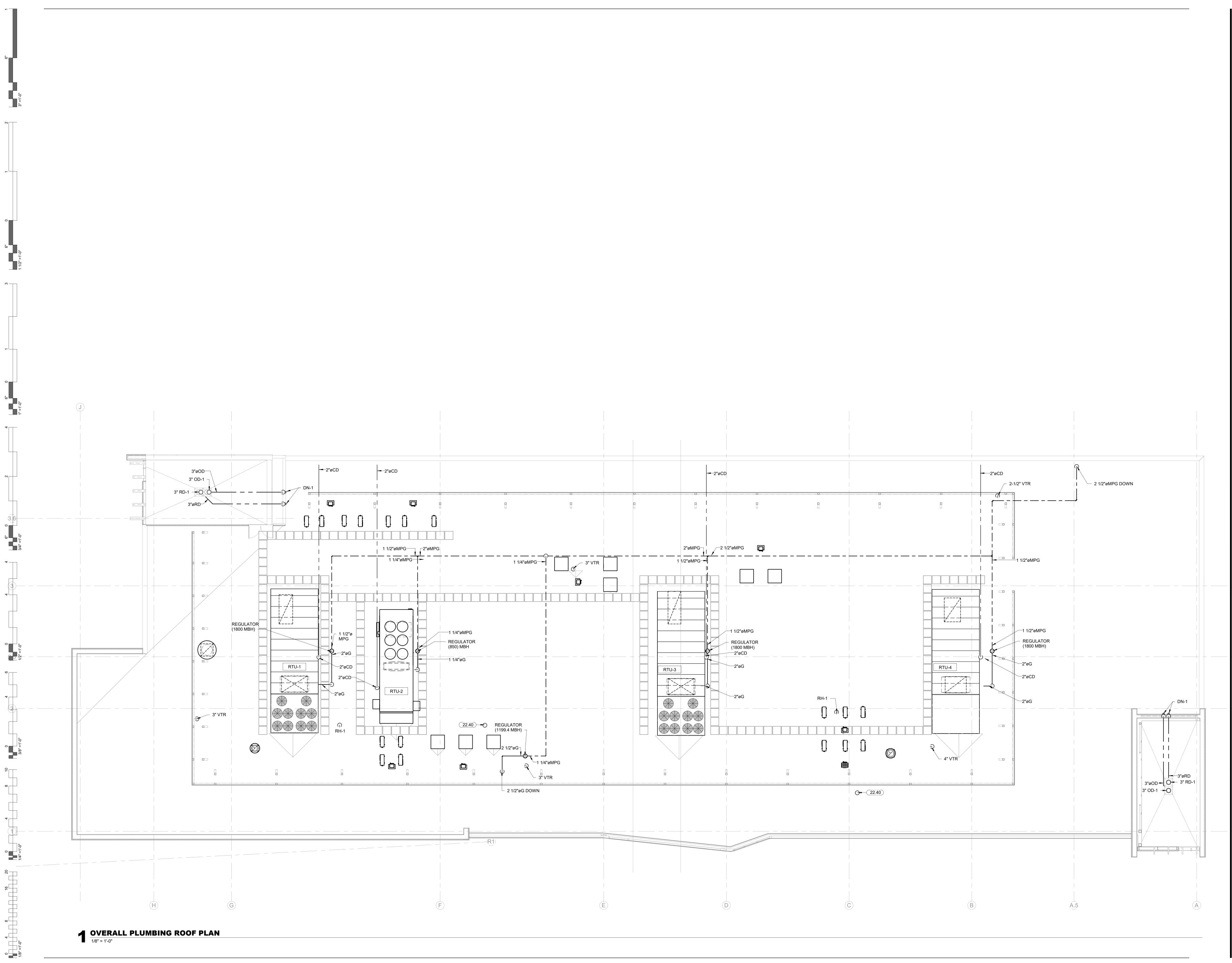
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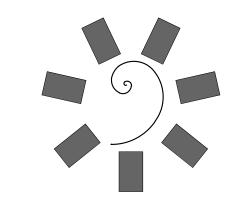
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CONSTRUCTION DOCUMENTS

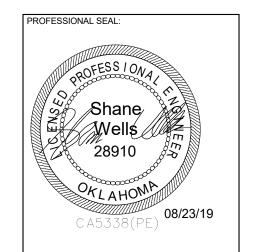
P3.32

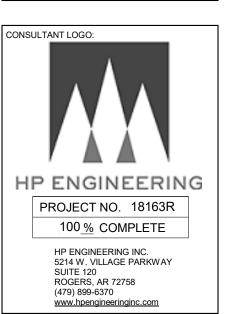
PLUMBING SUPPLY PLAN -LEVEL 03 SECTOR 02

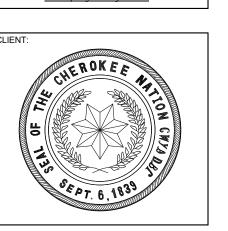




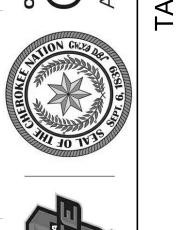
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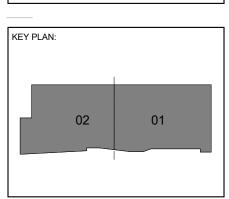


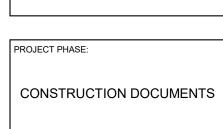












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PLUMBING ROOF PLAN