PLUMBING SYMBOLS						
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBI STANDARD MOUNTING HEIGHTS	REVIATIONS ARE USE PIPING SYMBOLS	D.		PIPING LINETYPE	S	V2.02
CLINIC SERVICE SINKS (RIM) 30"		OXYGEN OUT		CW	DOMEST	TIC COLD WATER (CW)
HOSE BIBB (CENTERLINE) 36"		NITROUS OXI		SCW		ED COLD WATER (SCW)
CE MAKER OUTLET BOX (CENTER OF BOX) 24"		MEDICAL AIR NITROGEN O		HW		TIC HOT WATER (HW) TIC HOT WATER RECIRC. (HWR)
ANITOR'S SINK FAUCET FITTINGS (CENTERLINE)  42"		MEDICAL VAC		140°		TIC HOT WATER (140°)
AVATORY OR SINK  STANDARD HEIGHT (RIM)  ADA ACCESSIBLE (RIM)  31"  34"			(FS), SIZE & TYPE	——т—		RIMER LINE (T)
CHILD HEIGHT (RIM) 24"	■ ●	FLOOR DRAIN	N (FD), SIZE & TYPE	s	SOIL PIP	ING - ABOVE FLOOR (S)
NON FREEZE WALL HYDRANT (AFG TO CENTERLINE) 18"	(Ĉ)	ROOF DRAIN	(RD), SIZE & TYPE	— -s— —	SOIL PIP	ING - BELOW FLOOR (S)
SHOWER HEAD  MEN (CENTERLINE)  78"	<del></del>	BALL VALVE		W	WASTE F	PIPING - ABOVE FLOOR (W)
WOMEN (CENTERLINE) 72" SHOWER VALVE		CONTROL VA				PIPING - BELOW FLOOR (W)
STANDARD HEIGHT - MEN (CENTERLINE) 48" STANDARD HEIGHT - WOMEN (CENTERLINE) 42"		SHUTOFF VA		——GW——		WASTE - ABOVE FLOOR (GW)
ADA ACCESSIBLE (CENTERLINE) 38" TO 48"		CHECK VALV	E ALVE WITH PRESSURE PORTS	CGWV		WASTE - BELOW FLOOR (GW) ATION GREASE WASTE AND VENT (CGWV)
URGEON'S SCRUB-UP SINK (FRONT RIM) 35"  UB VALVE		WATER METE		CWV		ATION WASTE AND VENT (CWV)
STANDARD HEIGHT (CENTERLINE)  ADA ACCESSIBLE  CENTER BETWEEN GRAB BAR AND TUB RIM		STRAINER		ST	STORM I	DRAIN - ABOVE FLOOR (ST)
RINAL		STRAINER W	TH BLOWOFF	— — ·st· — —	STORM I	DRAIN - BELOW FLOOR (ST)
STANDARD HEIGHT (RIM) 24" ADA ACCESSIBLE (RIM) 17"	<u>&amp;</u>	RELIEF/SAFE	TY VALVE	OST	OVERFL	OW STORM DRAIN - ABOVE FLOOR (OST)
CHILD HEIGHT (RIM) 14"  /ASHING MACHINE OUTLET BOX (RIM) 42"		SOLENOID VA	ALVE	— — VBG — —	VENT BE	ELOW GRADE (VBG)
ATER CLOSET			EDUCING VALVE	— VBF — —		ELOW FLOOR (VBF)
STANDARD HEIGHT (RIM) 15" ADA ACCESSIBLE (TOP OF SEAT) 17" TO 19"			RE REGULATOR	——————————————————————————————————————		T DRAIN (ID)
CHILD HEIGHT (RIM) 10"	——————————————————————————————————————	PIPE ANCHOR	TIC MIXING VALVE	——————————————————————————————————————		ISATE DRAIN - HIGH EFFICIENCY RTU (CDH) ISATE DRAIN (CD)
/ATER COOLER OR DRINKING FOUNTAIN STANDARD HEIGHT (SPOUT) 41"		EXPANSION .		——————————————————————————————————————		RY CONDENSATE DRAIN (ACD)
ADA ACCESSIBLE (SPOUT) 36" CHILD HEIGHT (SPOUT) 30"		BACKFLOW F		——————————————————————————————————————		R SEWAGE PUMP DISCHARGE (SPD)
	φ	PRESSURE G	AUGE	G		L GAS (G)
ISTALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE		THERMOMET	ER	— — -G- — —	NATURA	L GAS ON ROOF (G)
NO IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE DNSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIONS BY	ф	UNION		———MPG———	MEDIUM	PRESSURE NATURAL GAS (MPG)
RCHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE DNSTRUCTION DOCUMENTS, ARE AFF, UNO. ALL DEVICES SHALL BE STALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL		FLANGE CON	NECTION	— — MPG — —		PRESSURE NATURAL GAS ON ROOF (MPG)
QUIREMENTS.	<del></del>	HOSE BIBB (H	,	——NPW——		TABLE WATER (NPW)
NOTATION			NG WALL HYDRANT (NW)	——LPG———		ED PETROLEUM GAS (LPG)
1) PLUMBING PLAN NOTE CALLOUT		VALVE	TOMATIC AIR VENT OR VACUUM RELIEF	DFP		SERVICE (WS) OTECTION SPRINKLER DRY (DFP)
DI LIMBINO FOLUDATAT DEGIONATION (CONTRACTOR	<u> </u>	PRESSURE /	VACUUM SWITCH	———FP		OTECTION SPRINKLER WET (FP)
PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR  FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE  OR EQUIPMENT SCHEDULES		CLEANOUT		———DSP———		OTECTION STANDPIPE DRY (DSP)
CIVE QUIL MENT GOINE BOLES		CAP		WSP	FIRE PRO	OTECTION STANDPIPE WET (WSP)
EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)	——⇒ <sub>1</sub>	WALL CLEAN FLOOR CLEA	,	———PD———	CONDEN	ISATE PUMP DISCHARGE (PD)
CU\ MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR			EANOUT (ECO)	V	VENT PIF	PING (V)
CU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	o	ELBOW UP		———AW———		ASTE - ABOVE FLOOR (AW)
CONNECTION POINT OF NEW WORK TO EXISTING	——	ELBOW DOW	N	— — AW — —		STE - BELOW FLOOR (AW)
	——ю—	TEE UP		AV GWS	ACID VEI	NT (AV) ATER (GWS)
DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	<del></del>	TEE DOWN		CA		ESSED AIR (CA)
SECTION CUT DESIGNATION	———•Q		TITH SHUT-OFF VALVE (SOV)	MA		_ AIR (MA)
(P1)	<del></del>		N WITH SHUT-OFF VALVE (SOV)	MV	MEDICAL	_ VACUUM (VE)
DEDICATED EQUIPMENT ACCESS TILE			SHUT-OFF VALVE (SOV)	———НЕ	HELIUM	(HE)
ACCESS PANEL			VITH SHUT OFF VALVE (SOV)  MER ARRESTER (WHA) WITH PDI SIZES,	IA	INSTRUM	MENT AIR (IA)
	- <del></del>	(A, B, C, D, &	,	IV	INSTRUM	MENT VACUUM (IV)
BBREVIATIONS	<b>—</b>	RECIRCULAT	ION PUMP	N2	NITROGE	` '
DA AMERICANS WITH MIN MINIMUM DISABILITIES ACT N/C NORMALLY CLOSED		P-TRAP		N2O		S OXIDE (N20)
FF ABOVE FINISHED FLOOR N/O NORMALLY OPEN FG ABOVE FINISHED GRADE NIC NOT IN CONTRACT HU AIR HANDLING UNIT ORD OVERFLOW ROOF DRAIN		GAS COCK TRAP PRIMER	2	——————————————————————————————————————	OXYGEN EVAC/W	I (O2) AGD (EV)
HU AIR HANDLING UNIT ORD OVERFLOW ROOF DRAIN P ACCESS PANEL PDI PLUMBING DRAINAGE AS BUILDING AUTOMATION INSTITUTE			R WITH DISTRIBUTION UNIT	CO2		I DIOXIDE (CO2)
SYSTEM PH/Ø PHASE FF BELOW FINISHED FLOOR PRV PRESSURE REDUCING			- · · <del>-</del> · · · ·	——————————————————————————————————————		_ AIR INTAKE (AI)
FG BELOW FINISHED GRADE VALVE DP BOTTOM OF PIPE PVC POLYVINYL CHLORIDE				VE		_ VACUUM EXHAUST (VE)
OS BOTTOM OF STRUCTURE RCP REINFORCED CONCRETE TU BRITISH THERMAL UNIT PIPE TO CLEAN OUT.				———DA———	DENTAL	AIR (DA)
CLEAN OUT RD ROOF DRAIN CONDENSATE PUMP REVOLUTIONS PER CVC CHLORINATED POLYVINYL MINUTE				DV	DENTAL	VACUUM (DV)
CHLORIDE RTU ROOFTOP UNIT COPPER S SANITARY SEWER				——FW1——		D WATER (FW1)
DUCTILE IRON SF SQUARE FEET SP SUMP				——FW2——		D WATER W/ SCALE INHIBITOR (FW2)
U DRAINAGE FIXTURE UNIT SS STAINLESS STEEL, SOIL STACK				RO		E OSMOSIS (RO)
EXISTING S ENERGY MANAGEMENT SYSTEM  TDH TOTAL DYNAMIC HEAD TFA TO FLOOR ABOVE TFB TO FLOOR BELOW				ROR	KEVERS	E OSMOSIS REMINERALIZATION (ROR)
SYSTEM TFB TO FLOOR BELOW R EXISTING TO REMAIN TYP TYPICAL /C ELECTRIC WATER COOLER UL UNDERWRITERS	LINETYPE LEGENE	)				
FLOOR DRAIN  A FROM FLOOR ABOVE  UNO UNLESS NOTED			ENT LINETYPES ARE USED IN INDICATE THE STATUS OF ITEMS AS			
B FROM FLOOR BELOW OTHERWISE FINISHED FLOOR UPS UNINTERRUPTIBLE	EXISTING, TO BE DEMOI AND/OR ITEMS WHICH A	LISHED, TO BE I RE ANTICIPATE	NCLUDED AS PART OF NEW WORK ED TO BE PROVIDED IN THE FUTURE.			
FLOW LINE POWER SUPPLY A FULL LOAD AMPS VCP VITRIFIED CLAY PIPE	VIEW IN WHICH THEY AF	PPEAR. PHASIN	INETYPES ARE RELATIVE TO THE IG SHOWN IN DRAWINGS IS NOT			
R FLOOR VFD VARIABLE FREQUENCY PM GALLONS PER MINUTE DRIVE  VS VENT STACK	WHICH IS DETERMINED	BY THE CONTR	CESSARY CONSTRUCTION PHASING, ACTOR AS PART OF THEIR	0.11. 0		
O HEAD, HUB DRAIN VS VENT STACK Y HERTZ VTR VENT THROUGH ROOF INVERT ELEVATION W/ WITH	DOCUMENTS ARE GENE	RAL AND ONLY	DESCRIBED IN THE CONSTRUCTION INTENDED TO INDICATE A BROAD THE PROJECT. THE FOLLOWING	CALL OUTS		
WC INCHES OF WATER COLUMN W/O WITHOUT			ICE, EQUIPMENT, NOTE, LINE, SHAPE,	ENLARGED PLAN CALL	OUT	
BOX JUNCTION BOX WC WATER COLUMN BOX JUNCTION BOX WS WASTE STACK W KILOWATT WSFU WATER SUPPLY FIXTURE				5 <del></del>		
	LEVICTING		N. (= NA /			KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
MAKE-UP AIR UNIT  MAX MAXIMUM  WVS WASTE VENT STACK  MBH 1000 BTU PER HOUR	EXISTING — — — — —		NEW ————————————————————————————————————	NOT IN SCOPE		

## **GENERAL NOTES:**

- PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.
- 2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- 4. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
- 5. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- 6. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
- 7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- 8. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL

LOCATION OF PIPE ROUTING.

- 9. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
- 10. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- 11. INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR PERPENDICULAR TO WALLS.
- 12. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR
- ACCESSIBLE CEILING TILES. 13. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB OR INSIDE THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING
- 14. COORDINATE ALL WORK WITH OTHER TRADES AND

RETURN AIR PLENUM.

- CONTRACTORS. 15. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE
- BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- 16. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- 17. PROVIDE TRAP PIMERS OR TRAP SEALS WHERE REQUIRED BY LOCAL AUTHORITIES.
- 18. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- 19. PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
- 20. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
- 21. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
- 22. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON STORM PIPING, INCLUDING CONNECTIONS TO ROOF DRAINS AND SOIL STACKS 4" AND LARGER AND CONNECTIONS TO SOIL STACKS.
- SEE DIVISION 22 SPECIFICATIONS FOR MORE INFORMATION. 23. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION
- OF PVC DWV TO CAST IRON AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION FOR MORE INFORMATION. 24. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION
- OF PVC TO CAST IRON STORM PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "STORM DRAINAGE PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- DRAIN PIPING MUST DISCHARGE INTO STORM DRAIN SYSTEM. 26. FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5

25. PER CITY OF BENTONVILLE REQUIREMENTS ALL CONDENSATE

GPM UNLESS NOTED OTHERWISE. 27. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS

NOTED OTHERWISE.

- 28. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS
- DOWNSTREAM OF SHUTOFF VALVES. 29. PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVATED WATERPROOF FLOOR SLABS, REFER TO SPECIFICATIONS.
- 30. VERIFY EXISTING EQUIPMENT, INCLUDING ACCESSORIES, IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT
- ANY DEFICIENCIES TO THE ARCHITECT. 31. PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY
- PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR ½" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR 1/2" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.
- 32. BELOW GRADE PVC PIPING IS ALLOWABLE AND MUST BE INSTALLED PER LOCAL CODE.

GENERAL NOTES UPDATED AS PART OF ADDENDUM #2 

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MEPF + LOW VOLTAGE Henderson Engineers 8345 LENEXA DRIVE, STE 300

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2150 S. TOWNE CENTER, SUITE 100

Henderson Job Number: 2150002607

PSW Job Number:



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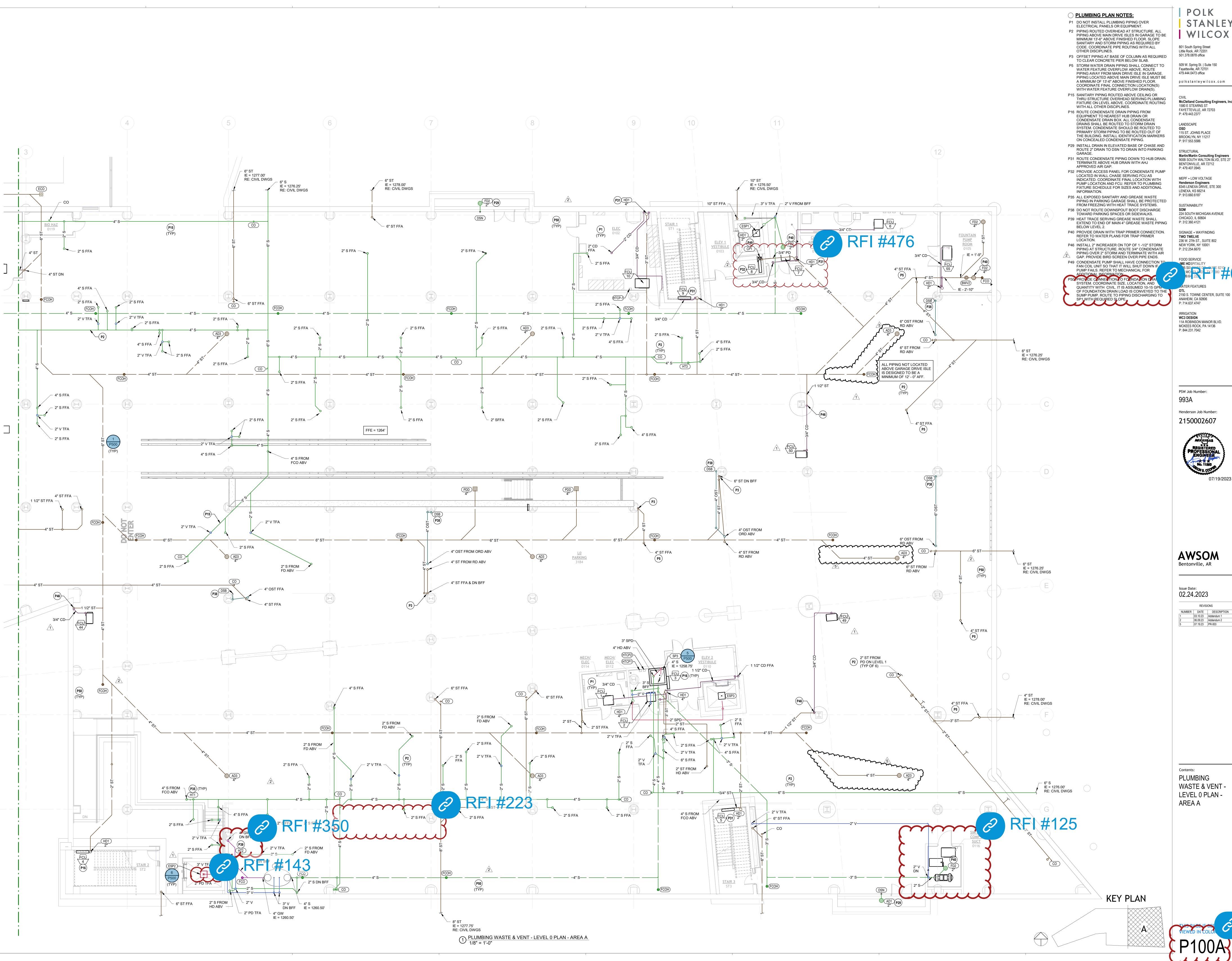
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 NUMBER
 DATE
 DESCRIPTION

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 06.09.23
 Addendum 2

**GENERAL NOTES** AND LEGEND





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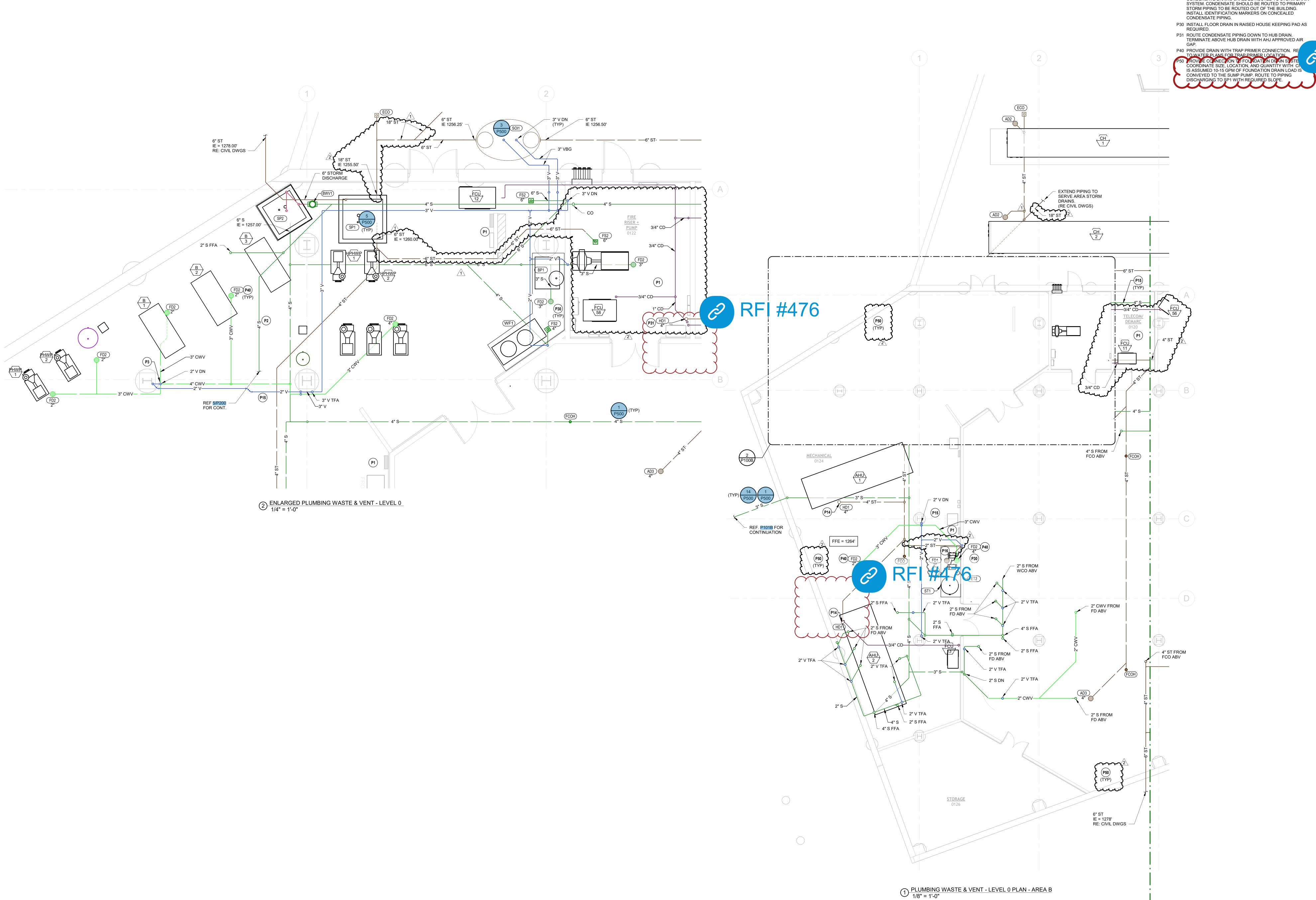
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993A Henderson Job Number: 2150002607

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**PLUMBING** WASTE & VENT -LEVEL 0 PLAN -AREA A



**PLUMBING PLAN NOTES:** 

P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL PANELS OR EQUIPMENT.

P2 PIPING ROUTED OVERHEAD AT STRUCTURE. ALL PIPING ABOVE MAIN DRIVE ISLES IN GARAGE TO BE MINIMUM 13'-6" ABOVE FINISHED FLOOR. SLOPE SANITARY AND STORM

PIPING AS REQUIRED BY CODE. COORDINATE PIPE ROUTING WITH ALL OTHER DISCIPLINES. P3 OFFSET PIPING AT BASE OF COLUMN AS REQUIRED TO CLEAR CONCRETE PIER BELOW SLAB. P14 HUB DRAIN TO BE INSTALLED ABOVE FINISHED FLOOR

LEVEL TO SERVE MECHANICAL UNIT CONDENSATE DRAIN AND PREVENT MAINTENANCE WATER ON FLOOR FROM ENTERING DRAIN. ROUTE CONDENSATE PIPING TO DRAIN AND TERMINATE ABOVE HUB DRAIN WITH AHJ APPROVED

> P15 SANITARY PIPING ROUTED ABOVE CEILING OR THRU STRUCTURE OVERHEAD SERVING PLUMBING FIXTURE ON LEVEL ABOVE. COORDINATE ROUTING WITH ALL OTHER DISCIPLINES. P16 ROUTE CONDENSATE DRAIN PIPING FROM EQUIPMENT TO

NEAREST HUB DRAIN OR CONDENSATE DRAIN BOX. ALL CONDENSATE DRAINS SHALL BE ROUTED TO STORM DRAIN STANLEY

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PSW Job Number: 993A Henderson Job Number: 2150002607



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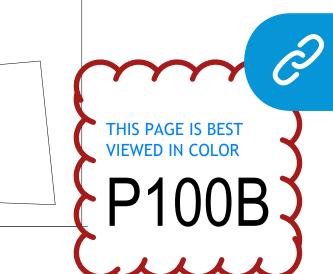
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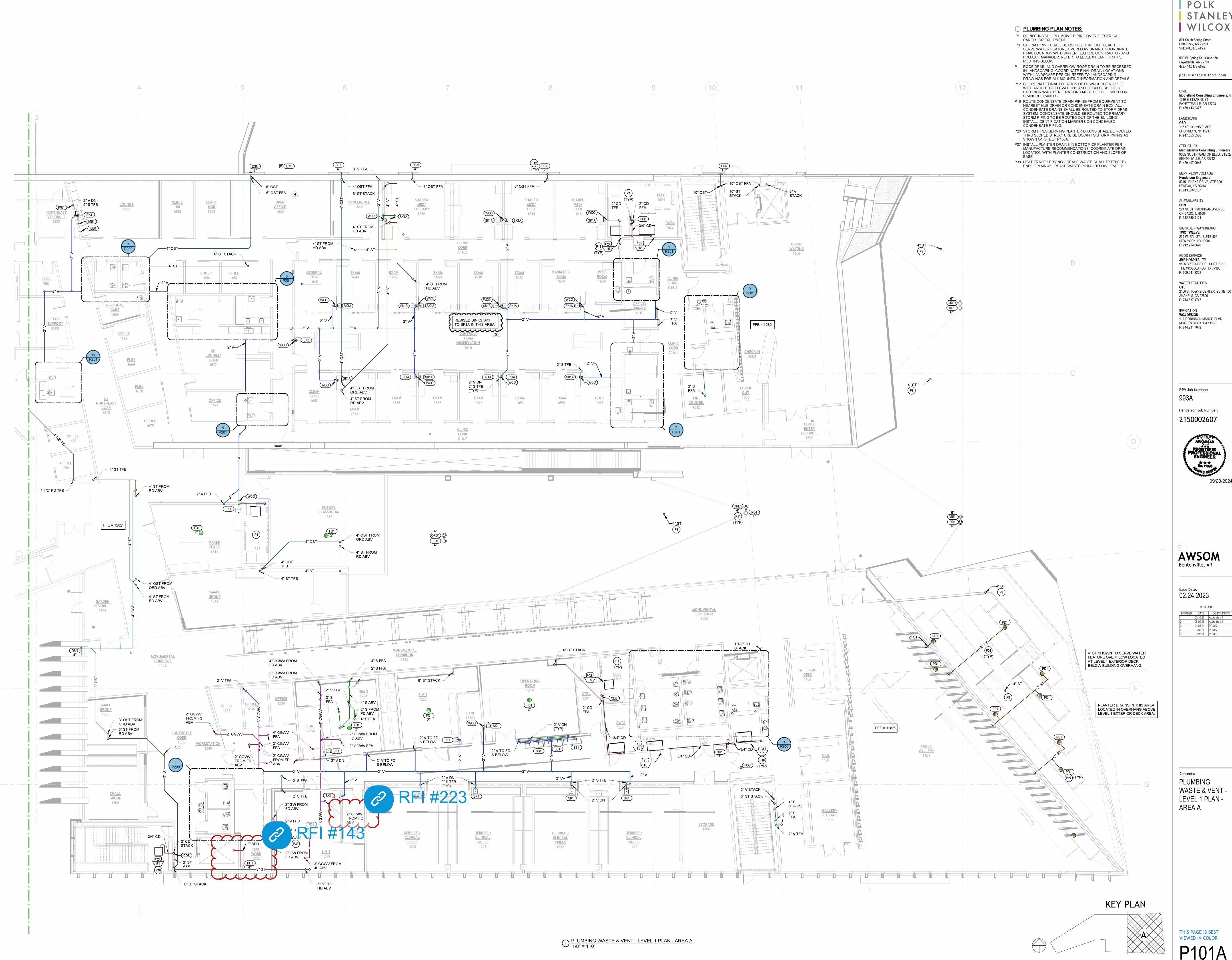
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 03.10.23
 Addendum 1

 2
 06.09.23
 Addendum 2

PLUMBING WASTE & VENT -LEVEL 0 PLAN -AREA B

**KEY PLAN** 





STANLEY

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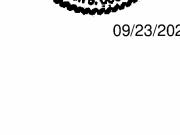
9595 SIX PINES DR., SUITE 8210 THE WOODLANDS, TX 77380 P: 609.641.2222 WATER FEATURES

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PSW Job Number:

2150002607



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PLUMBING WASTE & VENT -

PLUMBING PLAN NOTES:

PANELS OR EQUIPMENT.

P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL P16 ROUTE CONDENSATE DRAIN PIPING FROM HVAC UNIT TO NEAREST HUB DRAIN OR CONDENSATE DRAIN BOX. ALL CONDENSATE DRAINS SHALL BE ROUTED TO STORM DRAIN

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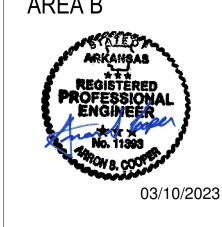
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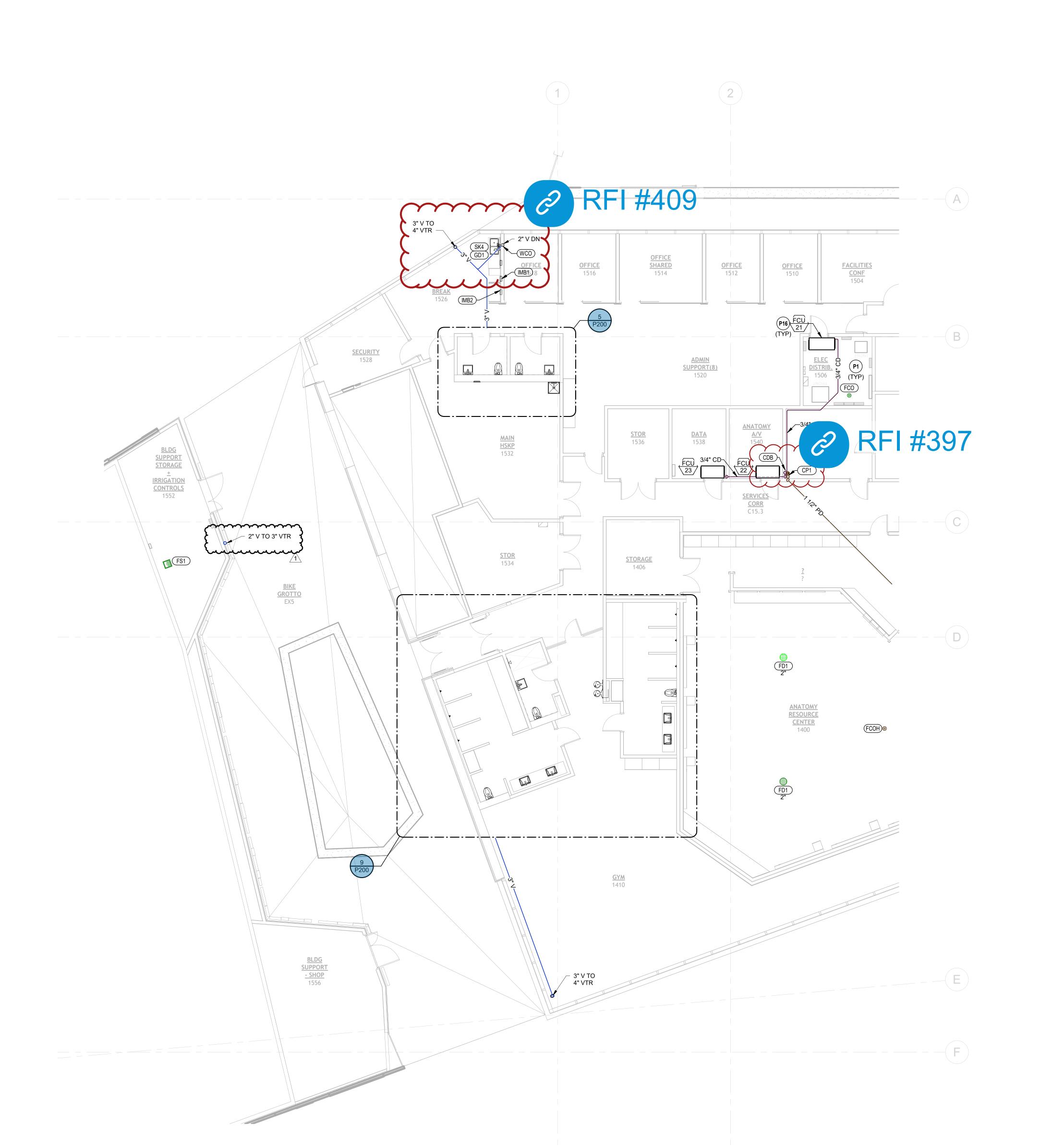
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 Addendum 1

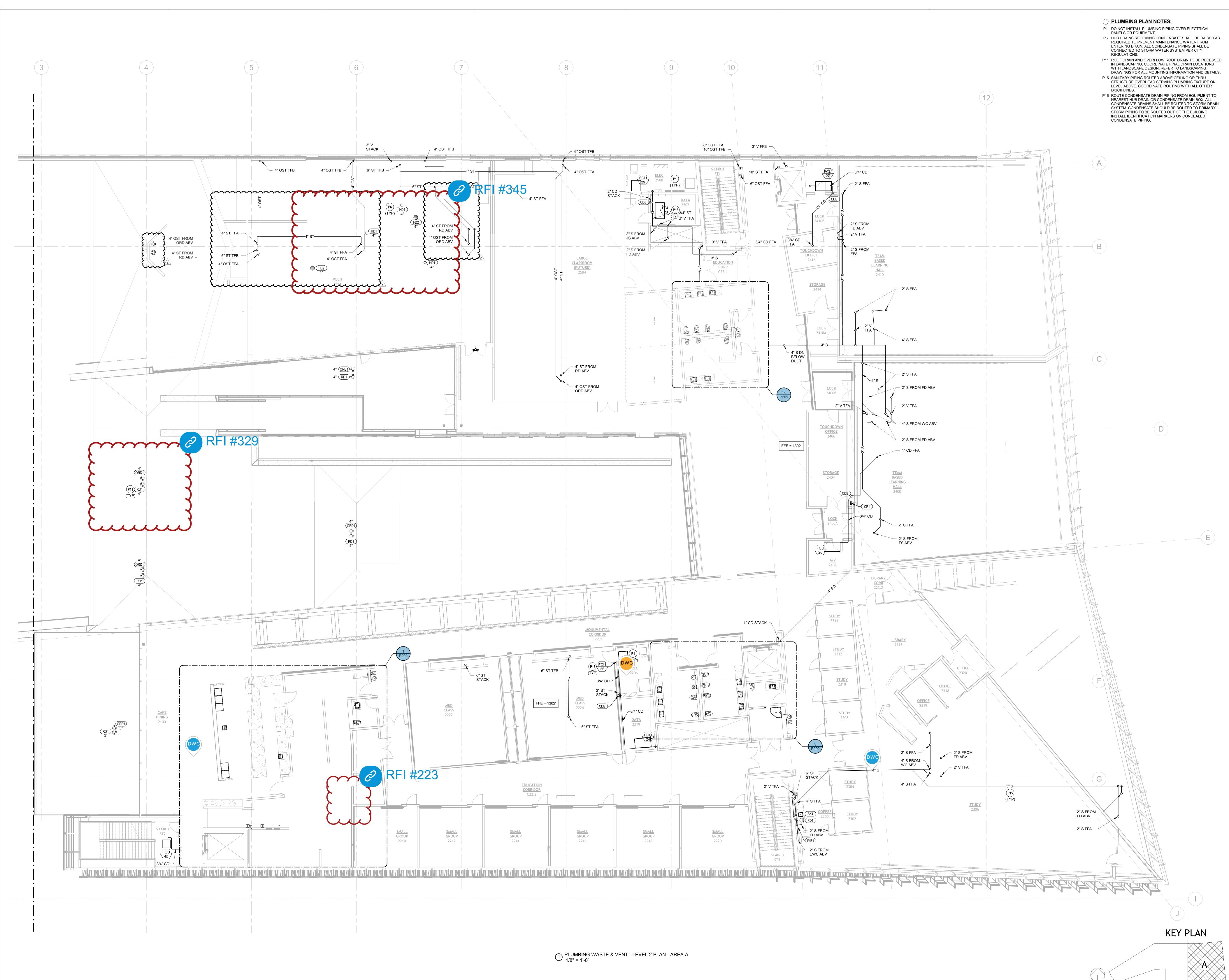
PLUMBING WASTE & VENT -LEVEL 1 PLAN -AREA B



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**KEY PLAN** 





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BROOKLYN, NY 11217 P: 917.553.5586 STRUCTURAL Martin/Martin Consulting Engineers

**OSD** 115 ST. JOHNS PLACE

LANDSCAPE

900B SOUTH WALTON BLVD, STE 27 BENTONVILLE, AR 72712 P: 479.407.0945 MEPF + LOW VOLTAGE Henderson Engineers 8345 LENEXA DRIVE, STE 300 LENEXA, KS 66214

P: 913.660.6187 SUSTAINABILITY 224 SOUTH MICHIGAN AVENUE CHICAGO, IL 60604 P: 312.360.4121

SIGNAGE + WAYFINDING TWO TWELVE 236 W. 27th ST., SUITE 802 NEW YORK, NY 10001 P: 212.254.6670

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WATER FEATURES 2150 S. TOWNE CENTER, SUITE 100 ANAHEIM, CA 92806 P: 714.637.4747

IRRIGATION WC3 DESIGN 11A ROBINSON MANOR BLVD. MCKEES ROCK, PA 14136 P: 844.231.7042

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**PLUMBING** WASTE & VENT -LEVEL 2 PLAN -AREA A



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P: 479.407.0945

MEPF + LOW VOLTAGE Henderson Engineers 8345 LENEXA DRIVE, STE 300 LENEXA, KS 66214 P: 913.660.6187 SUSTAINABILITY

CHICAGO, IL 60604 P: 312.360.4121 SIGNAGE + WAYFINDING TWO TWELVE 236 W. 27th ST., SUITE 802 NEW YORK, NY 10001

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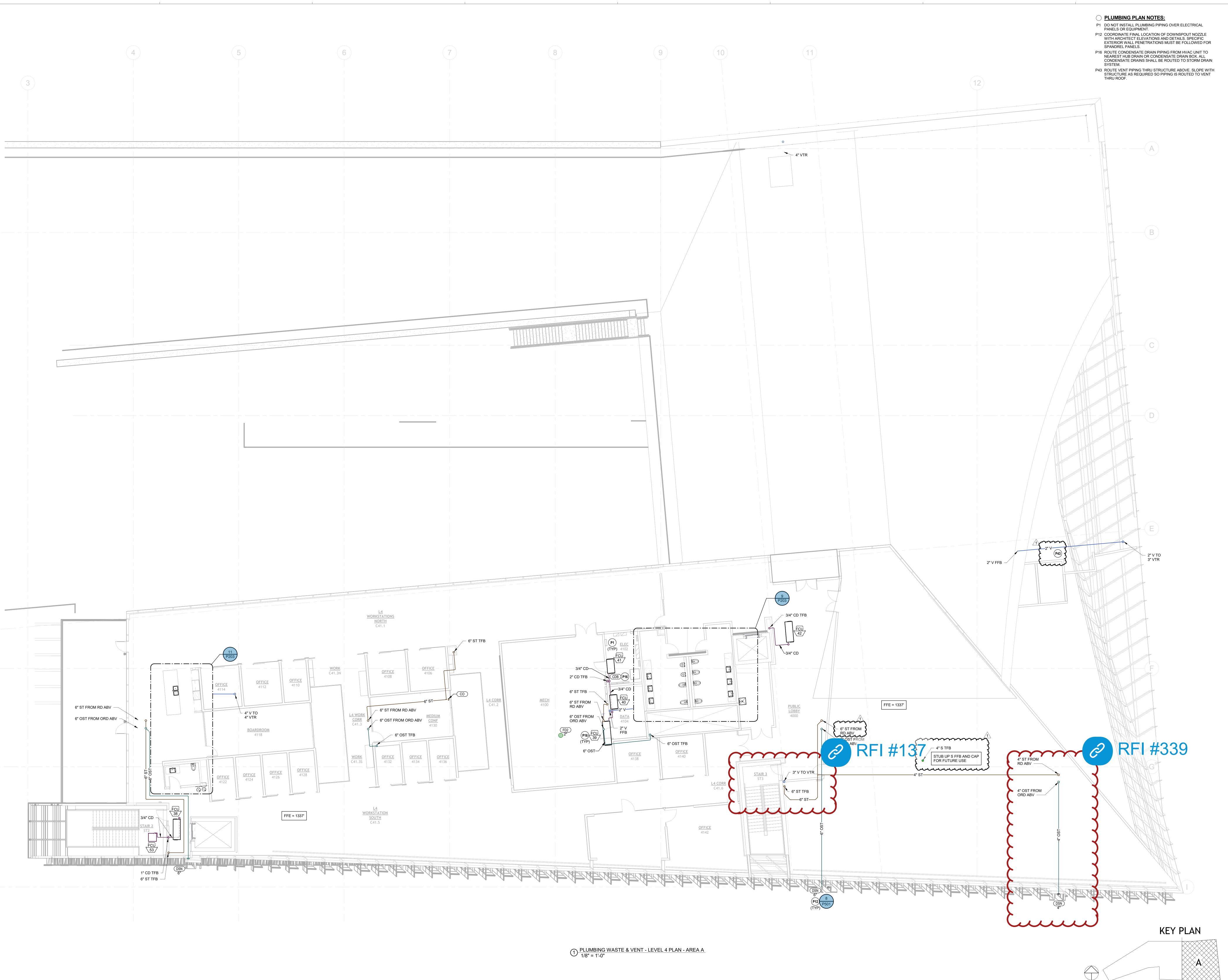
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PLUMBING WASTE & VENT -LEVEL 3 PLAN -AREA A



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Henderson Engineers
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ANAHEIM, CA 92806

P: 844.231.7042

SIGNAGE + WAYFINDING

TWO TWELVE

P: 714.637.4747

IRRIGATION

WC3 DESIGN

11A ROBINSON MANOR BLVD.

MCKEES ROCK, PA 14136

2150 S. TOWNE CENTER, SUITE 100

PSW Job Number:

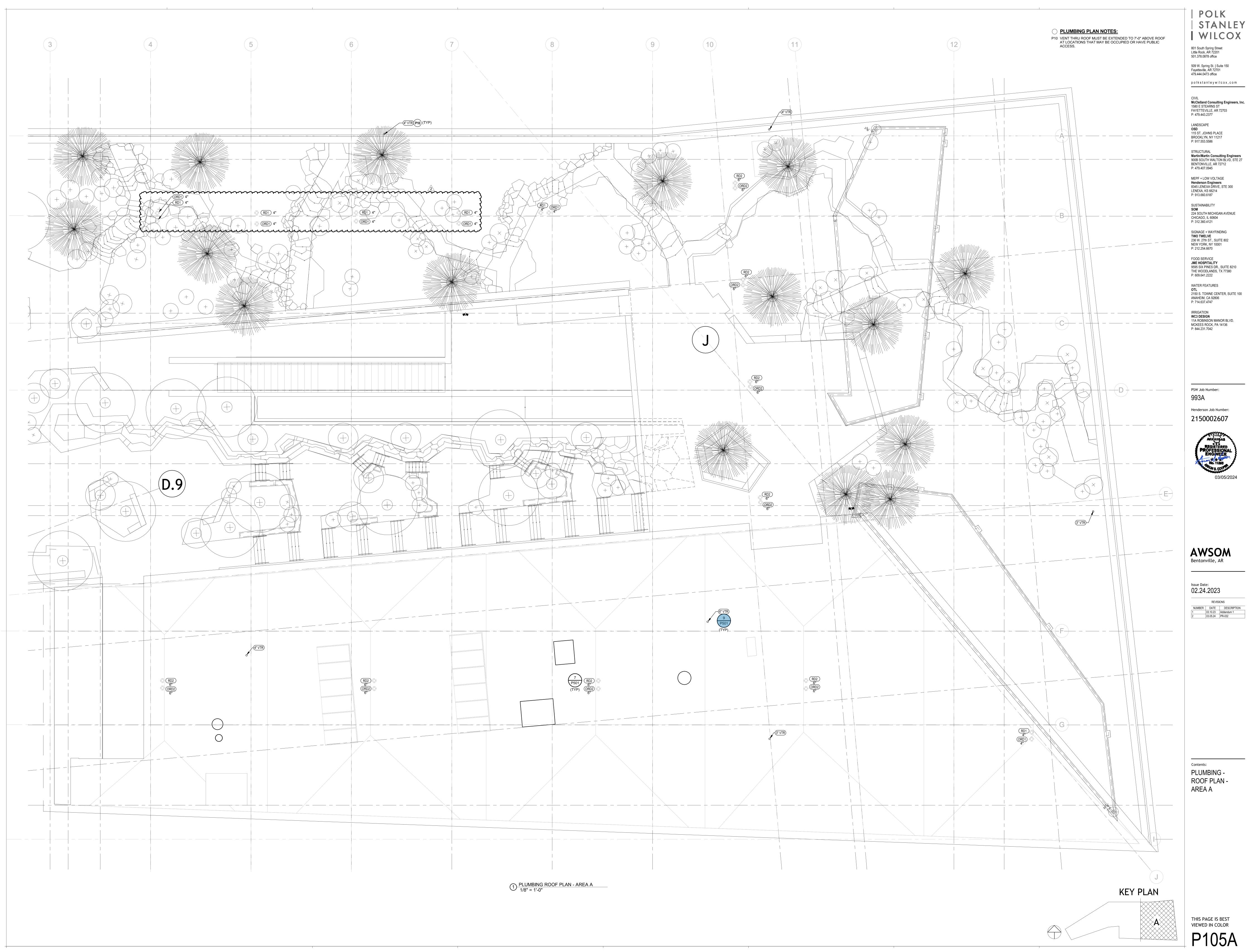
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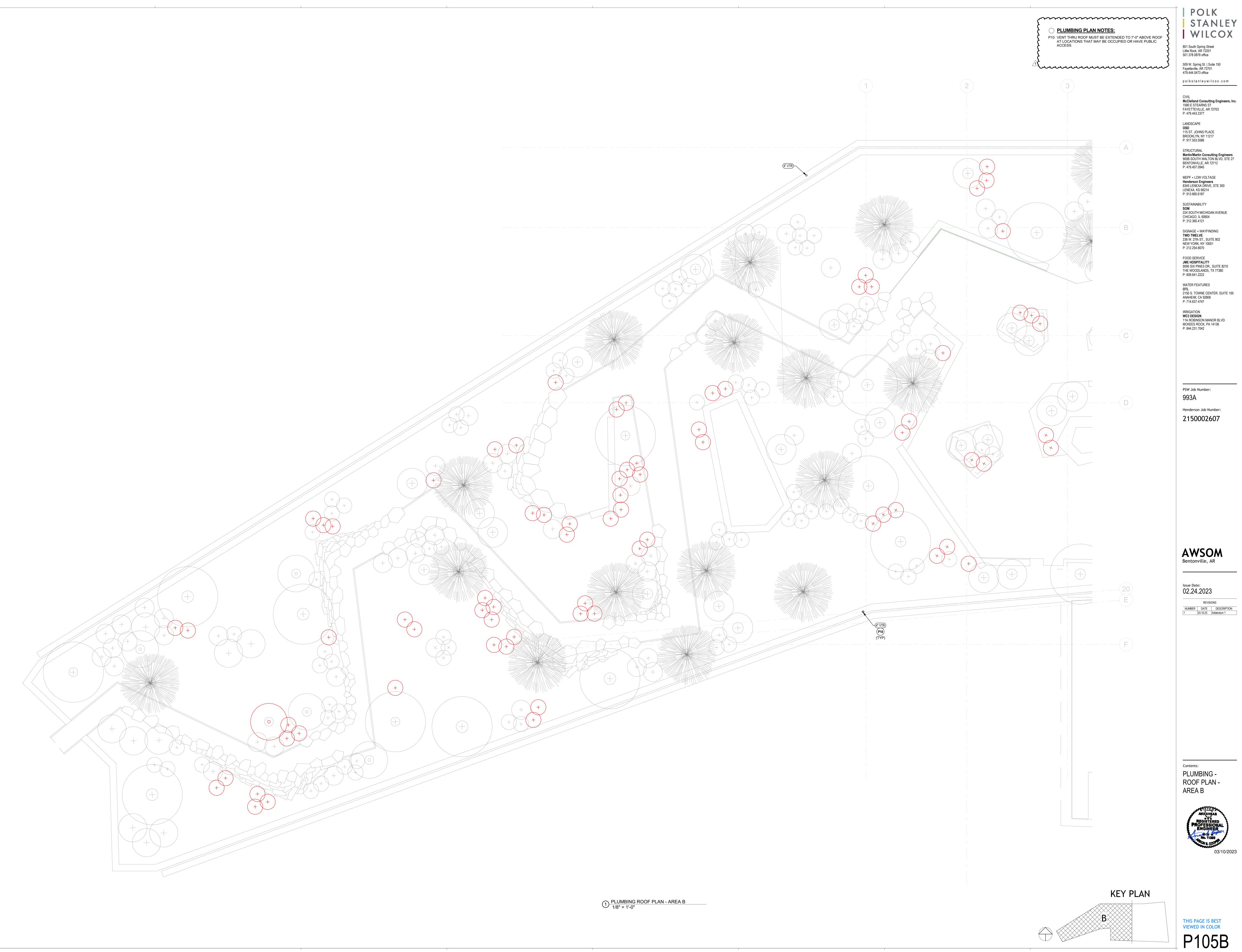
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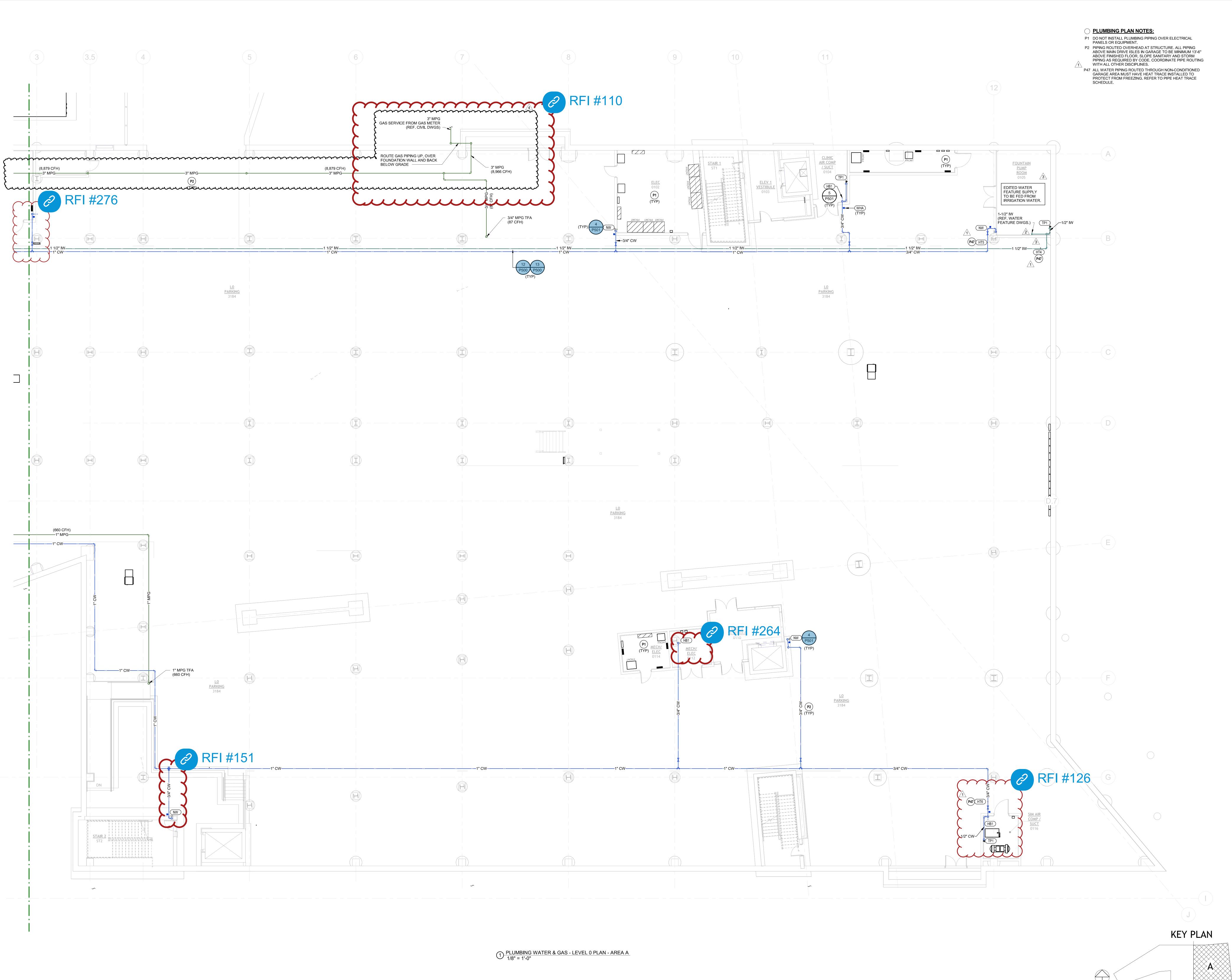




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WC3 DESIGN
11A ROBINSON MANOR BLVD.

IRRIGATION
WC3 DESIGN
11A ROBINSON MANOR BLVD.
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Henderson Job Number:
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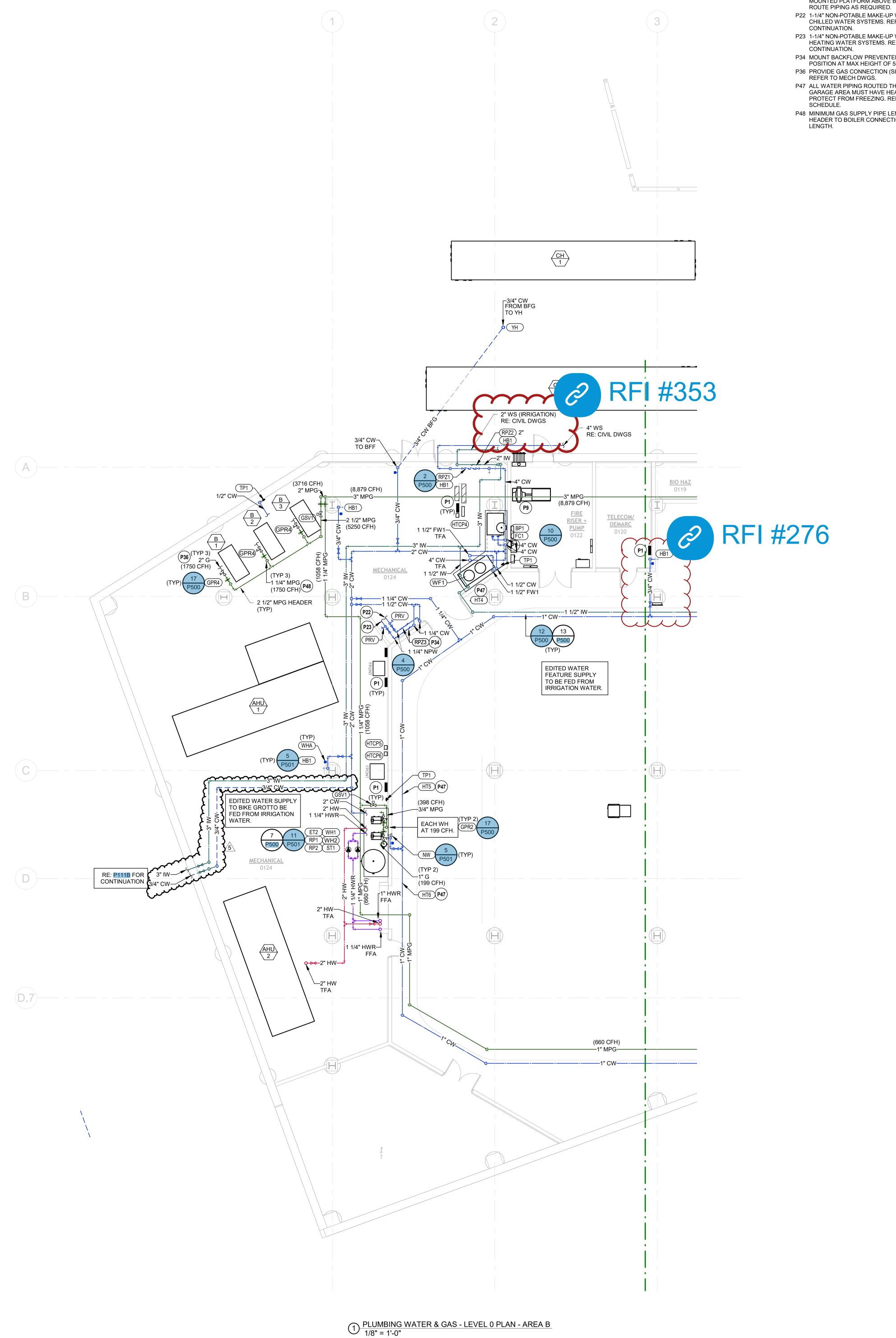
03.10.23 Addendum 1

06.09.23 Addendum 2

06.15.23 Addendum 3

09.07.23 PR-010

Contents:
PLUMBING
WATER & GAS LEVEL 0 PLAN AREA A



O PLUMBING PLAN NOTES:

- P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL
- PANELS OR EQUIPMENT. P9 INSTALL BOOSTER PUMP ACCUMULATOR TANK ON WALL MOUNTED PLATFORM ABOVE BOOSTER PUMP ASSEMBLY.
- P22 1-1/4" NON-POTABLE MAKE-UP WATER TO MECHANICAL CHILLED WATER SYSTEMS. REFER TO MECH DWGS FOR
- CONTINUATION. P23 1-1/4" NON-POTABLE MAKE-UP WATER TO MECHANICAL
- HEATING WATER SYSTEMS. REFER TO MECH DWGS FOR CONTINUATION. P34 MOUNT BACKFLOW PREVENTERS ON WALL IN STACKED
- POSITION AT MAX HEIGHT OF 5'-0" AFF. P36 PROVIDE GAS CONNECTION (SIZE AS SHOWN) TO BOILER.
- REFER TO MECH DWGS. P47 ALL WATER PIPING ROUTED THROUGH NON-CONDITIONED GARAGE AREA MUST HAVE HEAT TRACE INSTALLED TO PROTECT FROM FREEZING. REFER TO PIPE HEAT TRACE
- P48 MINIMUM GAS SUPPLY PIPE LENGTH FROM CONNECTION AT HEADER TO BOILER CONNECTION MUST TOTAL 10'-0" IN

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LANDSCAPE **OSD** 115 ST. JOHNS PLACE BROOKLYN, NY 11217 P: 917.553.5586

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TWO TWELVE

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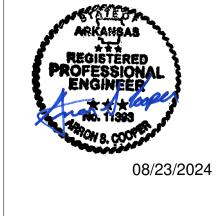
P: 212.254.6670 FOOD SERVICE JME HOSPITALITY 9595 SIX PINES DR., SUITE 8210 THE WOODLANDS, TX 77380 P: 609.641.2222

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IRRIGATION WC3 DESIGN 11A ROBINSON MANOR BLVD. MCKEES ROCK, PA 14136 P: 844.231.7042

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WATER & GAS -LEVEL 0 PLAN -AREA B





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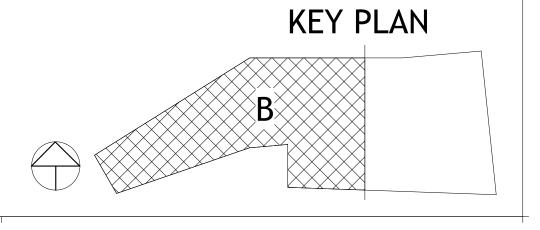


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PLUMBING WATER & GAS -LEVEL 1 PLAN -AREA A



1 PLUMBING WATER & GAS - LEVEL 1 PLAN - AREA B 1/8" = 1'-0"



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THE WOODLANDS, TX 77380 P: 609.641.2222 WATER FEATURES **OTL** 2150 S. TOWNE CENTER, SUITE 100

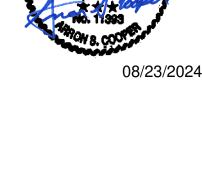
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PLUMBING WATER & GAS -LEVEL 1 PLAN -AREA B



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PLUMBING
WATER & GAS LEVEL 2 PLAN AREA A



A



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PLUMBING WATER & GAS -LEVEL 3 PLAN -AREA A



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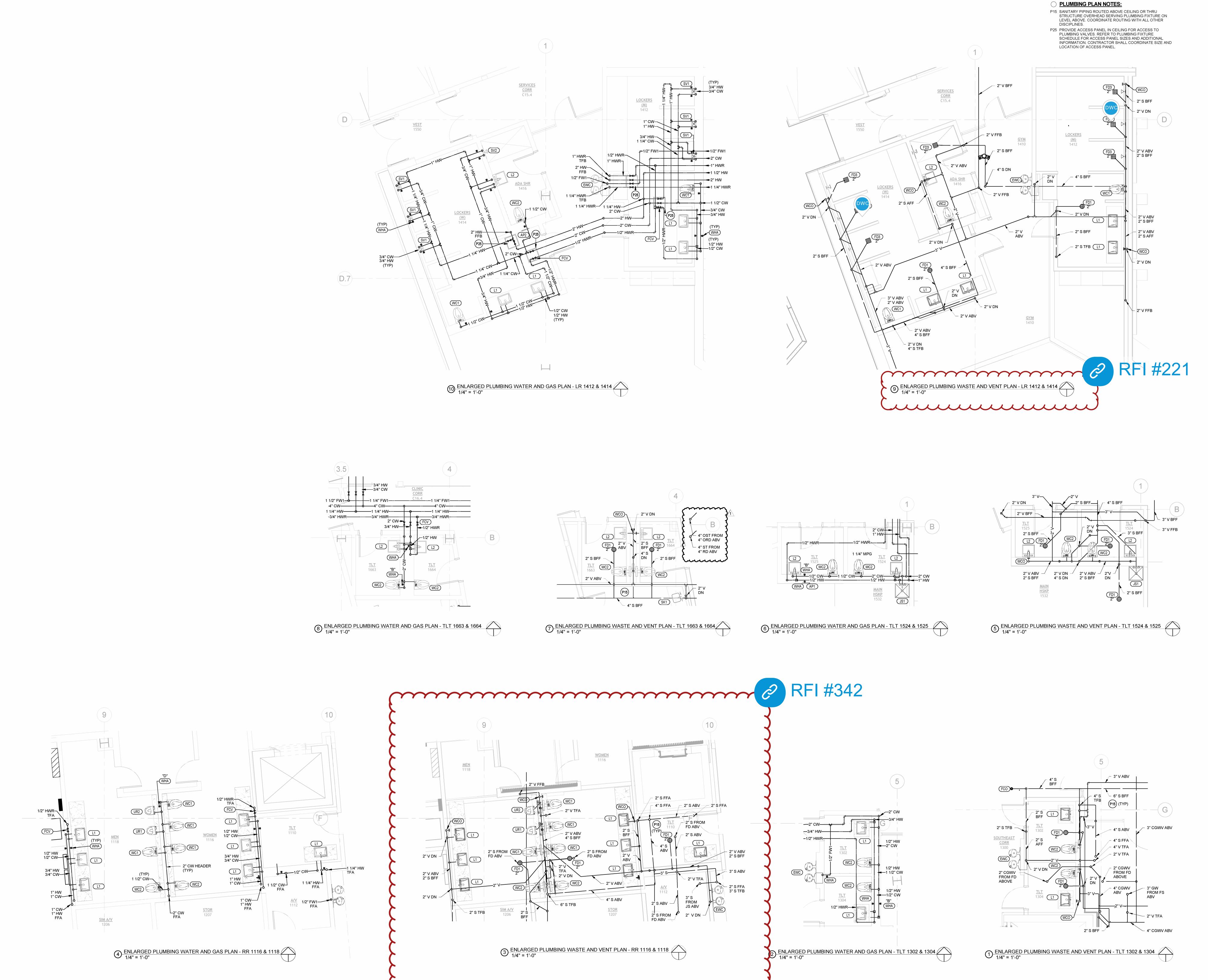
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PLUMBING
WATER & GAS LEVEL 4 PLAN AREA A





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PSW Job Number:
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Henderson Job Number:



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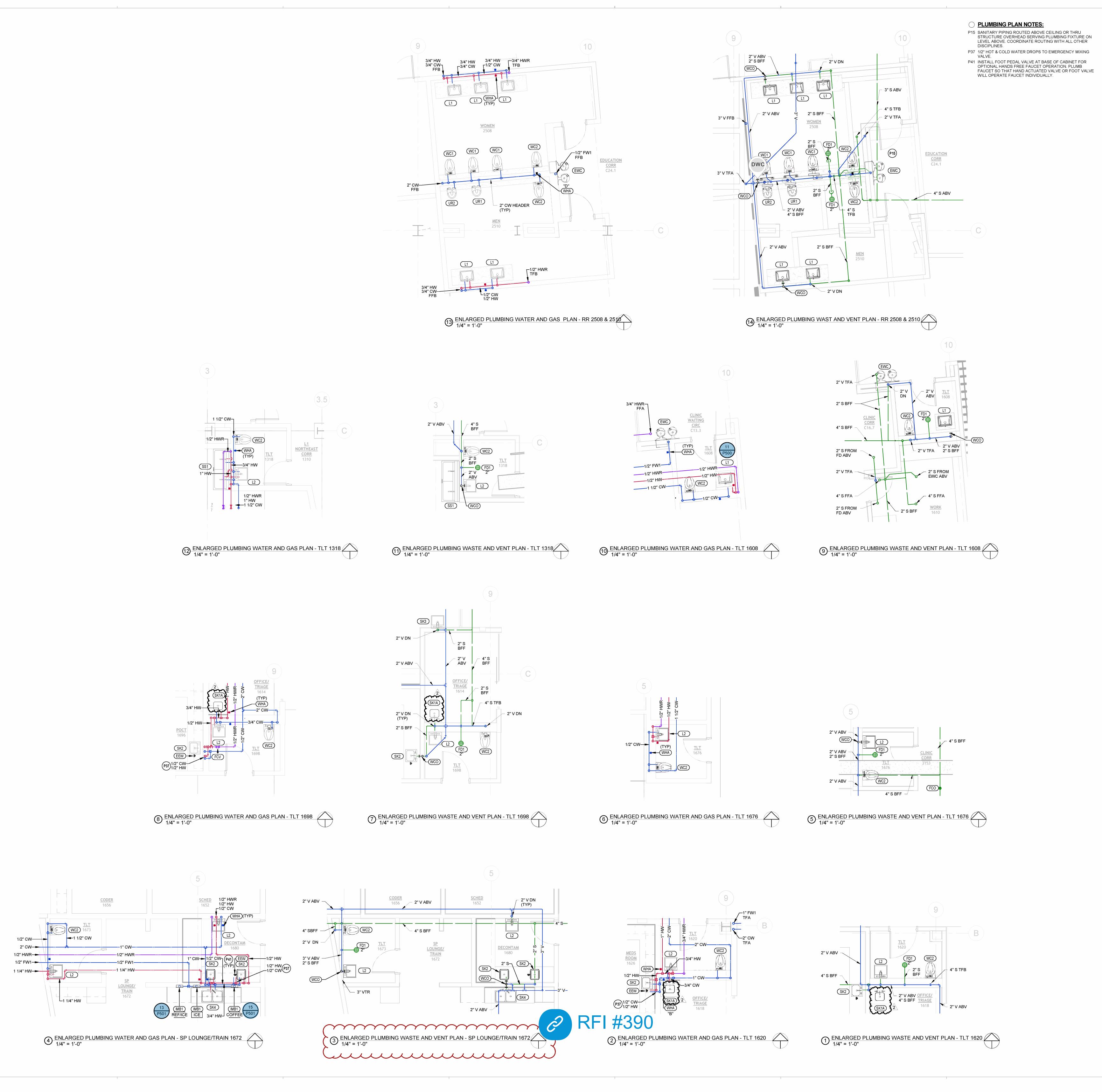
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Henderson Job Number:

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PLUMBING ENLARGED PLANS

2" V ABV 2" S BFF

4" V ABV -

<u>L4 CORR</u> C41.4

4" S TFB

3" V ABV -

2" V ABV

8 ENLARGED PLUMBING WATER AND GAS PLAN - RR 3510 & 3512

(11)

2" V ABV -2" S BFF

2" V DN 🦳

<u>L4 CORR</u> C41.4

ENLARGED PLUMBING WATER AND GAS PLAN - TLT 4120

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McClelland Consulting Engineers, Inc. 1580 E STEARNS ST FAYETTEVILLE, AR 72703 P: 479.443.2377 LANDSCAPE

OSD 115 ST. JOHNS PLACE BROOKLYN, NY 11217 P: 917.553.5586 STRUCTURAL Martin/Martin Consulting Engineers 900B SOUTH WALTON BLVD, STE 27

BENTONVILLE, AR 72712 P: 479.407.0945 MEPF + LOW VOLTAGE Henderson Engineers 8345 LENEXA DRIVE, STE 300 LENEXA, KS 66214 P: 913.660.6187 SUSTAINABILITY 224 SOUTH MICHIGAN AVENUE

CHICAGO, IL 60604 P: 312.360.4121 SIGNAGE + WAYFINDING **TWO TWELVE** 236 W. 27th ST., SUITE 802 NEW YORK, NY 10001

P: 212.254.6670 FOOD SERVICE **JME HOSPITALITY** 9595 SIX PINES DR., SUITE 8210 THE WOODLANDS, TX 77380 P: 609.641.2222

WATER FEATURES **OTL** 2150 S. TOWNE CENTER, SUITE 100 ANAHEIM, CA 92806 P: 714.637.4747 IRRIGATION **WC3 DESIGN** 11A ROBINSON MANOR BLVD.

MCKEES ROCK, PA 14136 P: 844.231.7042

PSW Job Number: 993A Henderson Job Number: 2150002607



AWSOM
Bentonville, AR

Issue Date: 02.24.2023 
 NUMBER
 DATE
 DESCRIPTION

 1
 03.10.23
 Addendum 1

 2
 09.23.24
 PR-083

PLUMBING ENLARGED PLANS







STANLEY

2150 S. TOWNE CENTER, SUITE 100

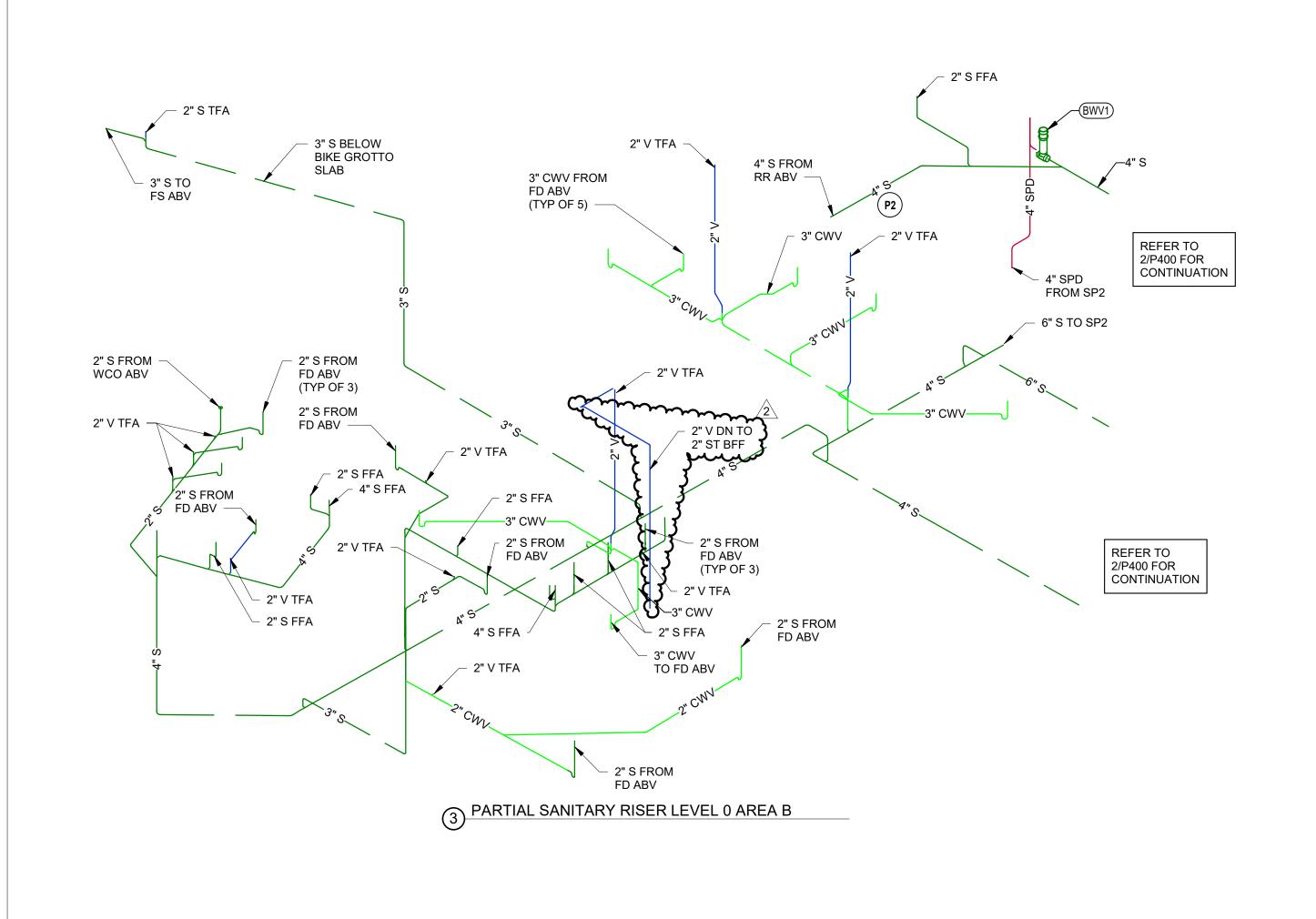


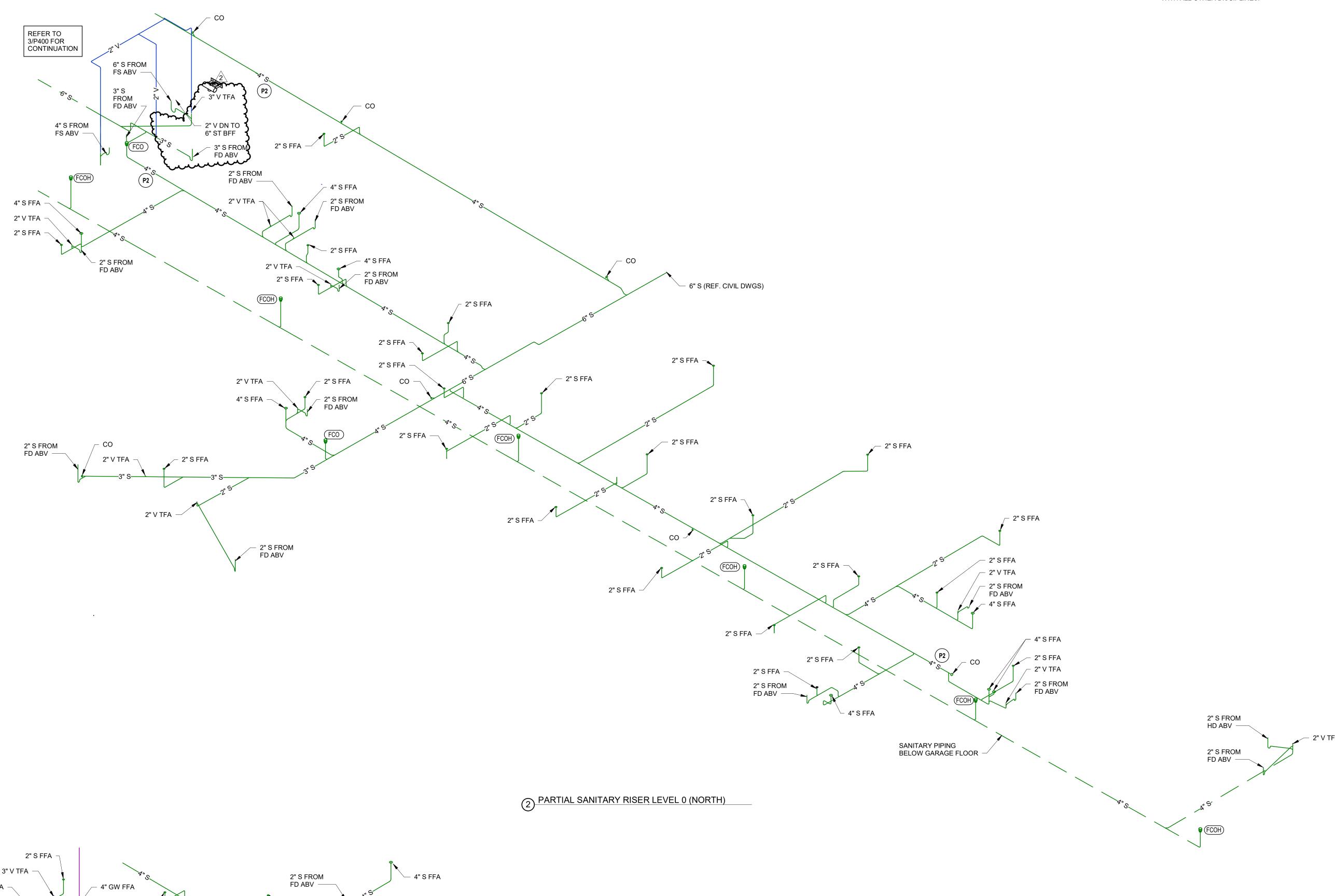


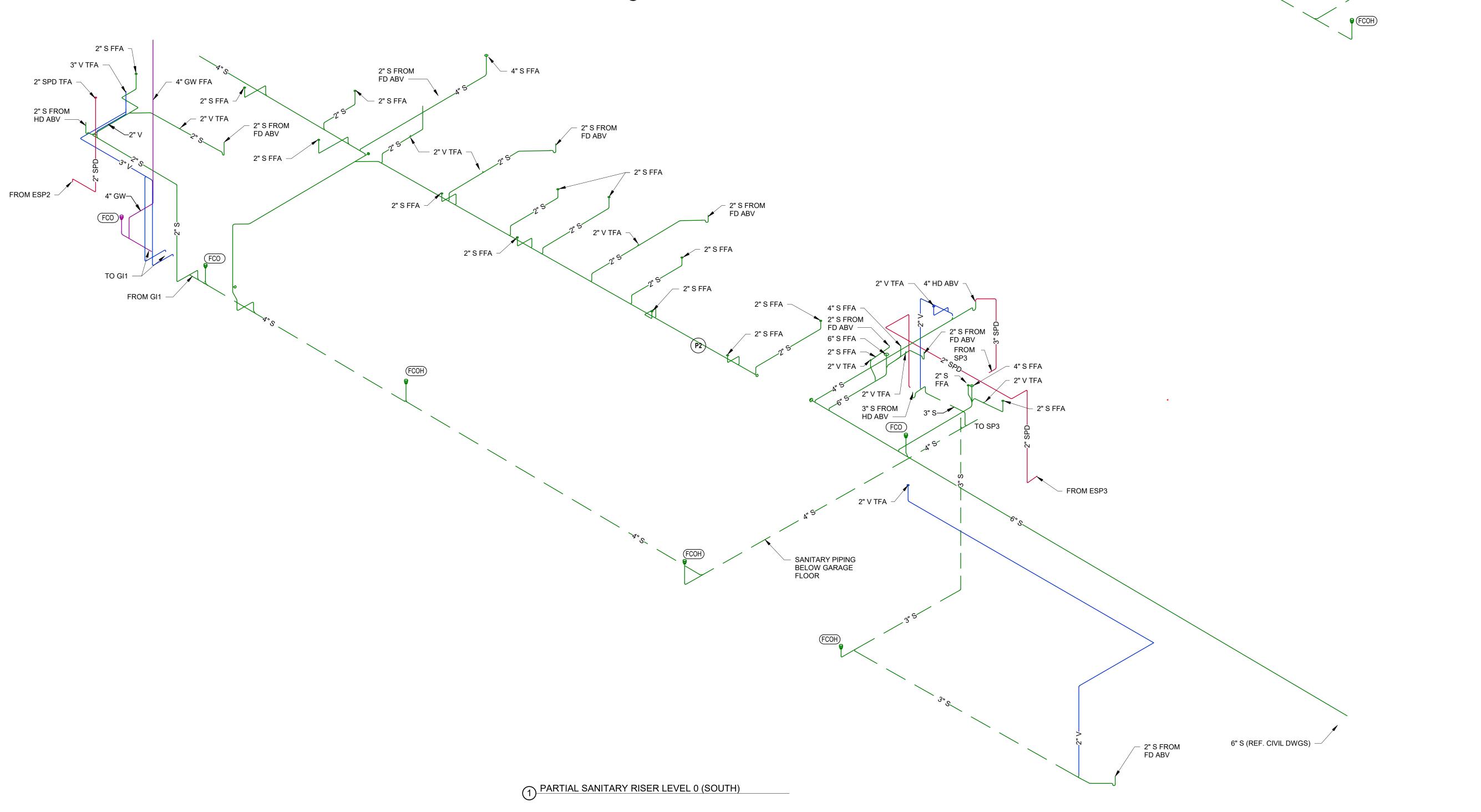
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**OSD** 115 ST. JOHNS PLACE

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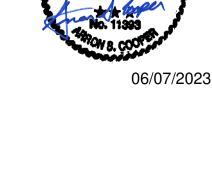
WATER FEATURES
OTL
2150 S. TOWNE CENTER, SUITE 100

IRRIGATION
WC3 DESIGN
11A ROBINSON MANOR BLVD.
MCKEES ROCK, PA 14136
P: 844.231.7042

ANAHEIM, CA 92806 P: 714.637.4747

PSW Job Number:
993A
Henderson Job Number:

Henderson Job Number: 2150002607



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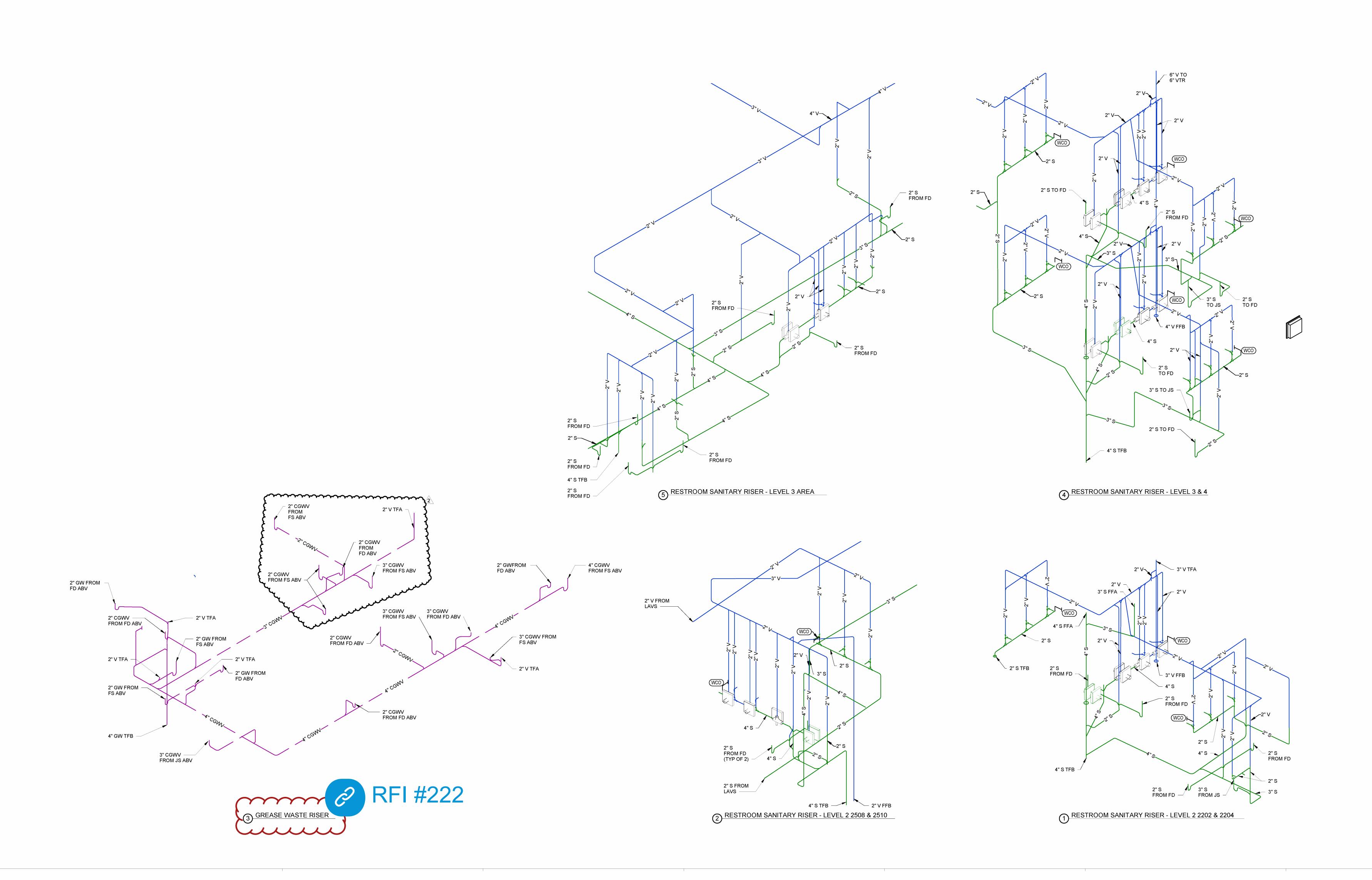
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 06.09.23
 Addendum 2

Contents:
PLUMBING RISER
DIAGRAMS



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NEW YORK, NY 10001 P: 212.254.6670 FOOD SERVICE JME HOSPITALITY 9595 SIX PINES DR., SUITE 8210 THE WOODLANDS, TX 77380 P: 609.641.2222

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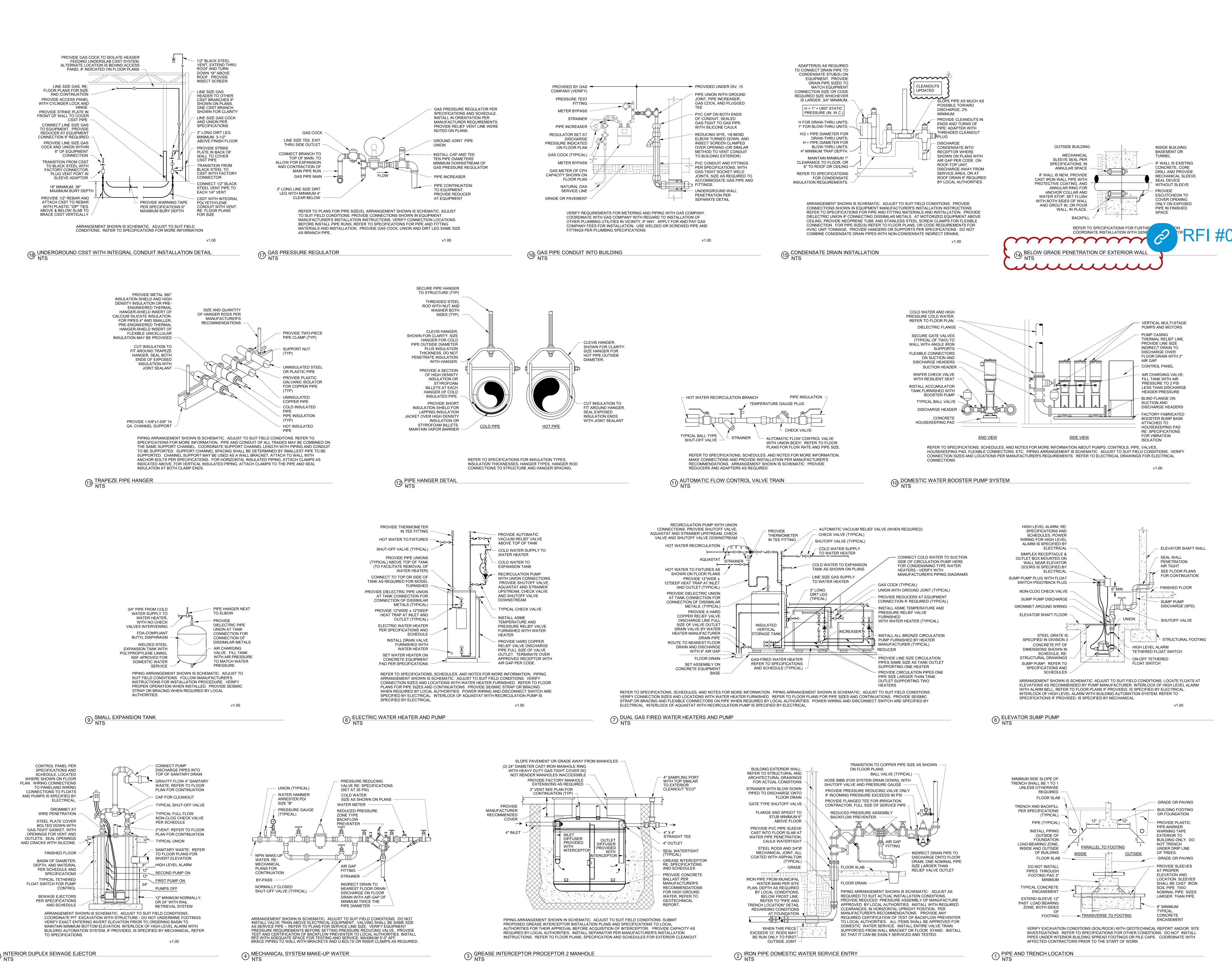
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PLUMBING RISER DIAGRAMS



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Henderson Engineers
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Henderson Engineers
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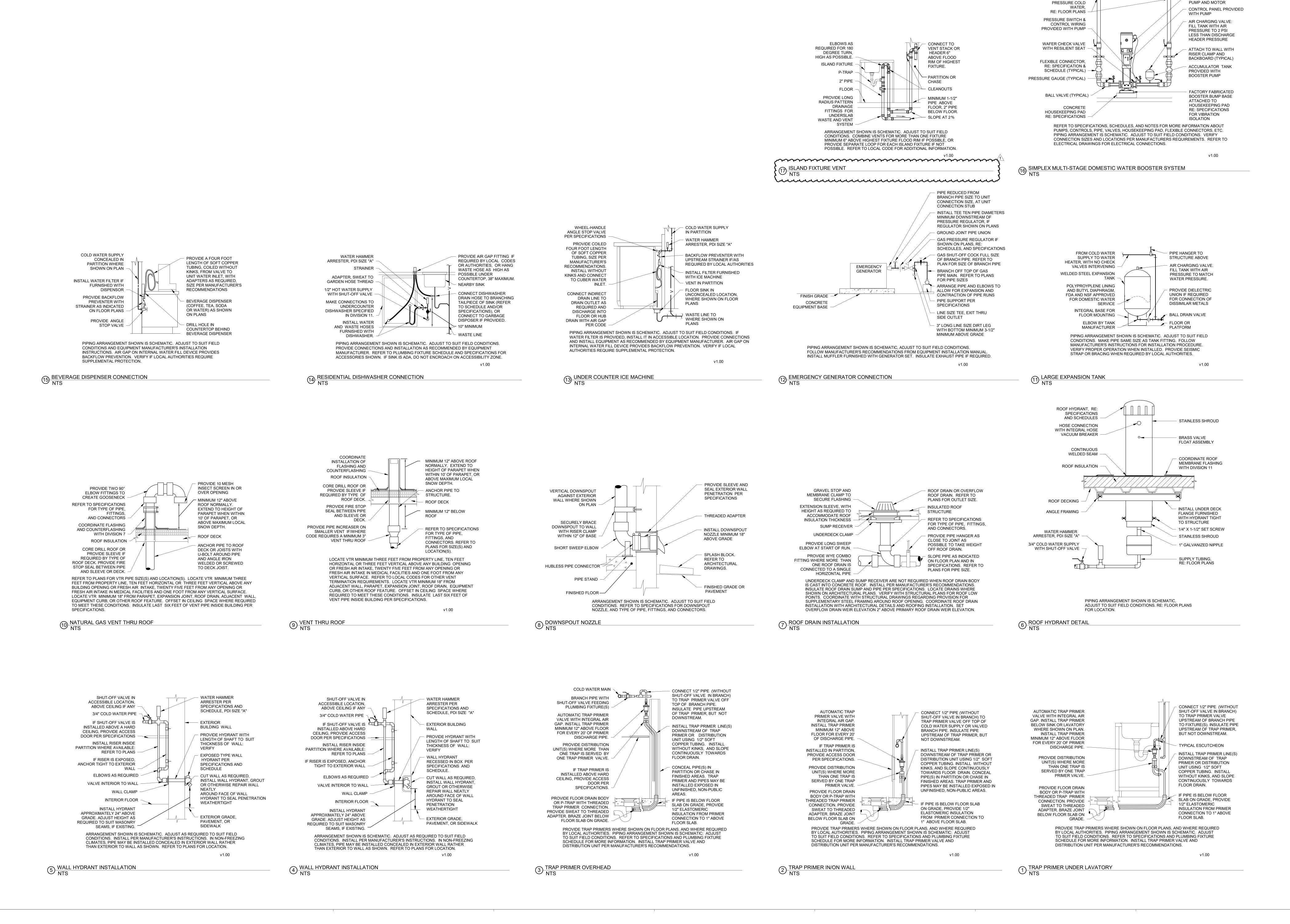
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REVISIONS

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LANDSCAPE

VERTICAL MULTI-STAGE

COLD WATER AND HIGH

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IRRIGATION
WC3 DESIGN
11A ROBINSON MANOR BLVD.

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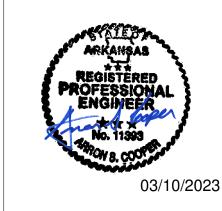
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Bentonville, AR

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Contents:
PLUMBING



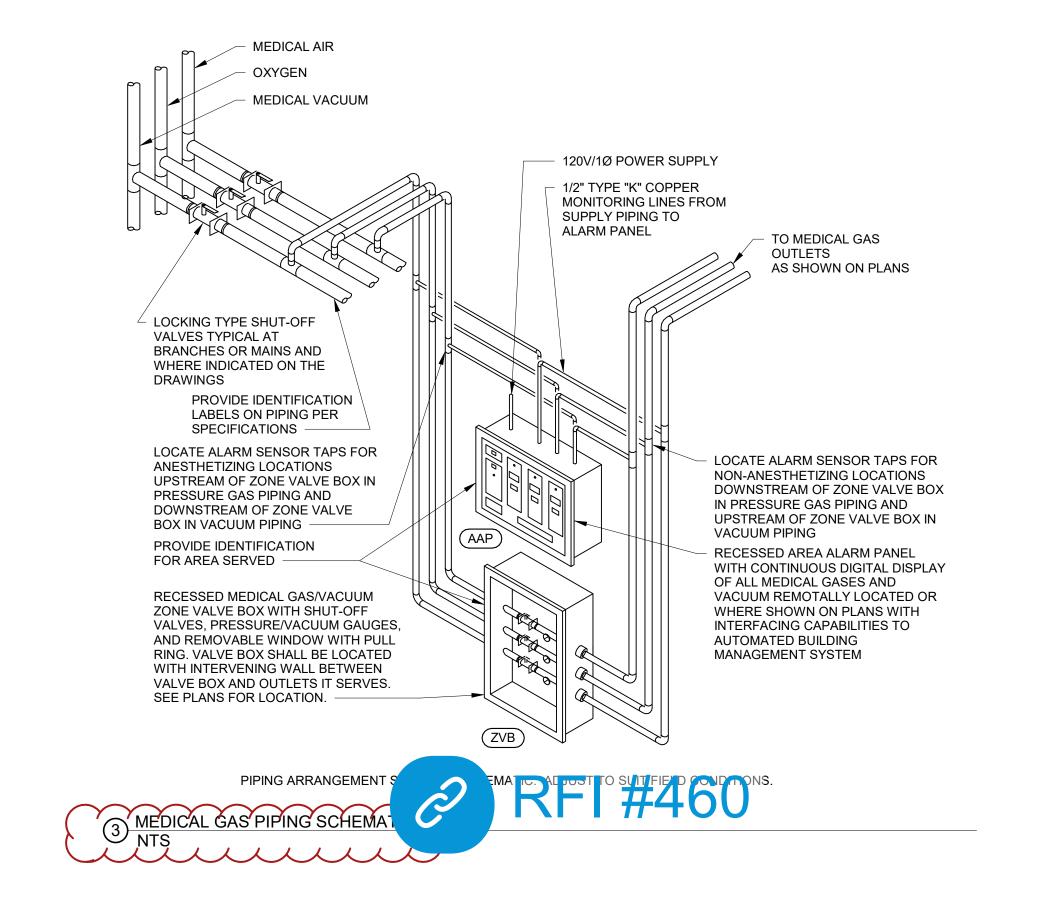
		AIR C	<b>OMPF</b>	RESSOR S	SCHEDULE					
	MANUFACTURER/		TYPE	ACCUMULATOR	COMPRESSOR CAPACITY	ELE	CTRICAL DA	TA	WEIGHT	
MARK	MODEL#	LOCATION	NOTE A	CAPACITY (GAL)	NOTE B	VOLTS	PHASE	HP	(LBS)	NOTES
MAC1	POWEREX #MTD0203	SIM AIR COMP + SUCTION	D	80	9.2 CCEM @ E0 DCIC	208	4	2	750	A D O D O
OTES:	O - CIMPLEY TANK MOUNTED D			60	8.3 SCFM @ 50 PSIG	200	1		750	A, B, C, D
A. B.	S = SIMPLEX, TANK MOUNTED, D = FOR ONE COMPRESSOR ONLY PROVIDE WITH TANK MOUNTED DI	DUPLEX, TANK MOUNTED			6.3 SCFW @ 30 FSIG	200	'	2	750	A, B, C, D 8
Α.	FOR ONE COMPRESSOR ONLY	DUPLEX, TANK MOUNTED  UPLEX CONTROL PANEL WITH SINGLE S			6.3 SCFW @ 30 FSIG	200	1	2	750	A, B, C, D 8

	VA	CUU	M PUMP	<b>SCHEDU</b>	LE				
MARK	MANUFACTURER /	TYPE	STORAGE TANK	PUMP CAPACITY	ELE	CTRICAL D	ATA	WEIGHT	NOTES
	MODEL#		CAPACITY	(SCFM @ 19"Hg)		NOTE A		(LBS)	
		NOTE B	(GALLONS)	NOTE A	VOLTS	PHASE	HP		
MVP1	POWEREX VVOTD0151	TMD	30	5	208	1	2	492	A, B, C & [
NOTES:									
Α.	FOR EACH PUMP								
В.	TMD = TANK MOUNTED DUPLEX.								
C.	VACUUM PUMPS SHALL BE OIL -LESS VANE TYPE								
	VERTICAL RECEIVER								

			MEDICAL GAS DEVICE	SCHEDULE			
PLUMBING PLAN MARK	UNIT TYPE	MANUFACTURER	MODEL	MEDICAL_AIR	MEDICAL_VACUUM	OXYGEN	NOTES
MAP	MASTER ALARM PANEL	AMICO	ALERT-2 SERIES				A, B, E
WO1	WALL OUTLETS	POWEREX	OLET-WALL-PB-	X	X	Х	A,B,C,G
ZVB	ZONE VALVE BOX	POWEREX	ZVB	Х	X	Χ	A,B,D,E,F

NOTES:

- PROVIDE COMPLETE INSTALLATION OF SYSTEMS PER NFPA 99 REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS. INSTALL ITEMS AT LOCATIONS AND ELEVATIONS INDICATED ON ARCHITECTURAL DRAWINGS. COORDINATE LOCATIONS WITH OTHER TRADES.
- WALL OUTLETS SHALL BE QUICK-CONNECT TYPE GEOMETRIC INDEX. INSTALL DEVICES WITH CENTERLINE OF BOXES AT 60" AFF, UNLESS INDICATED OTHERWISE. MAKE ZONE VALVE BOXES SAME SIZE AS PIPE THEY SERVE. REFER TO FLOOR PLANS FOR SIZES.
- PROVIDE A SLIDE BESIDE EACH VACUUM INLET.
- FROM TOP TO BOTTOM IN ZONE VALVE BOXES, ORDER OF SERVICES SHALL BE OXYGEN, MEDICAL AIR, AND MEDICAL VACUUM. 4 X 4 OXYGEN MANIFOLD, ROUTE PRESSURE RELIEF VALVE TO THE EXTERIOR OF THE BUILDING, TURN DOWN, AND SCREEN. PROVIDE WITH HEADER BAR ASSEMPLY AND STAINLESS STEEL BRAIDED PIG TAILS.



- PROVIDE COVER ON OUTLET

AT EXTERIOR OF BUILDING WITH EQUIVALENT F

REE AREA OF 2" PIPE; PAINT TO MATCH BUILDING

MAKE WALL PENETRATION PER DETAIL

LINE SIZE MV; RE: FLOOR

- SHUTOFF VALVE (TYP.)

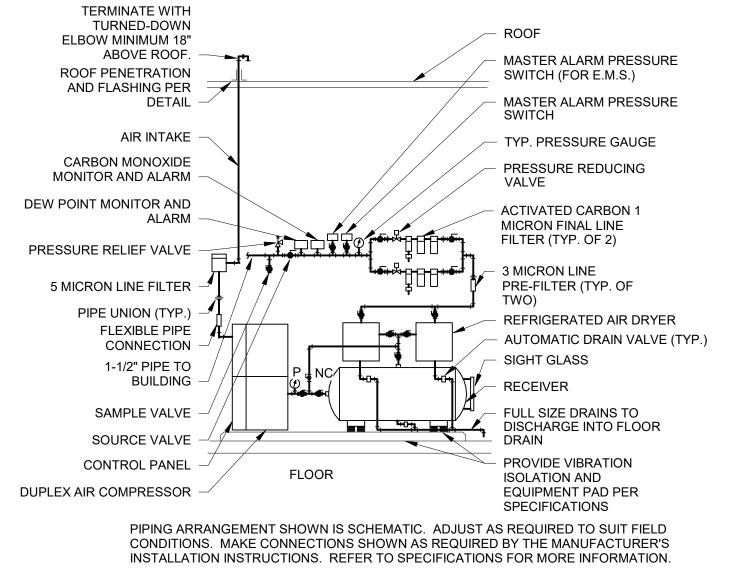
- VACUUM EXHAUST

SPECIFICATIONS

VACUUM PUMP

SPECIFICATIONS AND

**EXTERIOR** 



5 DUPLEX SIMULATION AIR COMPRESSOR NTS

SCHEDULES - PROVIDE VIBRATION ISOLATION AND **EQUIPMENT PAD PER** RECEIVER TANK -**SPECIFICATIONS** CONTROL PANEL -MECHANICAL ROOM FLOOR -TANK DRAIN DISCHARGE TO FLOOR SINK WITH AIR GAP FLOOR SINK WHERE SHOWN ON FLOOR PLAN -PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT FIELD

CONDITIONS. MAKE CONNECTIONS SHOWN AS REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

4 DUPLEX VERTICAL SIMULATION VACUUM PUMP NTS

ROOF -

VACUUM

SWITCH -

VACUUM GAUGE -

**FLEXIBLE** 

(TYP.) -

CONNECTION

SYSTEM ISOLATION

MASTER ALARM

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P: 714.637.4747

PSW Job Number:

Henderson Job Number: 2150002607

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Contents: MEDICAL GAS **DETAILS AND** 

SCHEDULES



					DOMESTIC	C BOO	STER P	UMP SCH	EDULE							
MARK	SERVICE	MANUFACTURER /	TYPE	DISCHARGE HEADER	SUCTION HEADER	NUMBER	SYSTEM FLOW	INDIVIDUAL PUMP	SUCTION HEADER	DISCHARGE HEADER	ELECTF	RICAL DATA (N	IOTE B)	ACCUMULATOR	WEIGHT	NOTES
		MODEL#	NOTE A	PRESSURE (PSI)	PRESSURE (PSI)	OF PUMPS	RATE (GPM)	CAPACITY	SIZE (IN.)	SIZE (IN.)	VOLTS	PHASE	HP	TANK SIZE (GAL.)	(LBS)	
BP1	DOMESTIC BOOSTER	GRUNDFOS CRE 15-2	Т	88.9	50.8	3	220	35%	4	4	480	3	5	100	195	A, B, C, D, E
NOTES:																

FACTORY-MOUNTED DISCONNECT PROVIDED AS PART OF PUMP PACKAGE.

B. MOTOR HORSEPOWER SHOWN IS FOR ONE PUMP.

PROVIDE WITH CONTROL PANEL. REFER TO SPECIFICATIONS FOR MORE INFORMATION MINIMUM DISCHARGE HEADER PRESSURE IS 88.9 PSI

PROVIDE PUMPS WITH SCHEDULED DESIGN FLOW RATE WITH TOTAL DYNAMIC HEAD = DISCHARGE PRESSURE - SUCTION PRESSURE + 2PSI FOR SYSTEM LOSSES

MODEL#	SERVICE FLOW RATE (GPM)	DRAIN FLOW RATE (GPM)	PIPE CONNECTIONS IN/OUT/DRAIN	ELECTRICAL	OPERATING WEIGHT (LBS)	NOTES
EASYWATER TS-2472-1.5C-TA-NBC-UV-S	30	40	1.5" FNPT CPVC	120 / 7.5A / 60HZ	4,200	A, B
	TO	XINSHIELD FIL	TRATION			
TANK DIMENSIONS	TYPE	VALVE	CONNECTIONS	ELECTRICAL		
24" X 72"	TWIN ALTERNATING	1.5" CLACK	1.5" FNPT	SYSTEM SINGLE DISCONNECT		
	N	O SALT CONDI	TIONER			
CONTROLLER	TWS			ELECTRICAL		
EF-25-IN	TWS-1.5			SYSTEM SINGLE DISCONNECT		
		UV DISINFEC	TION			
MODEL#	GPM		CONNECTIONS	ELECTRICAL		
VIQUA PRO 30	30		1.25" NPT PRE-PIPED	SYSTEM SINGLE DISCONNECT		
	EASYWATER TS-2472-1.5C-TA-NBC-UV-S  TANK DIMENSIONS 24" X 72"  CONTROLLER EF-25-IN  MODEL#	EASYWATER TS-2472-1.5C-TA-NBC-UV-S  TOO  TANK DIMENSIONS TYPE 24" X 72" TWIN ALTERNATING  CONTROLLER TWS EF-25-IN TWS-1.5  MODEL# GPM	EASYWATER TS-2472-1.5C-TA-NBC-UV-S  TOXINSHIELD FIL  TANK DIMENSIONS TYPE VALVE 24" X 72" TWIN ALTERNATING 1.5" CLACK  NO SALT CONDI  CONTROLLER TWS EF-25-IN TWS-1.5  UV DISINFECT  MODEL# GPM	EASYWATER TS-2472-1.5C-TA-NBC-UV-S  TOXINSHIELD FILTRATION  TANK DIMENSIONS TYPE VALVE CONNECTIONS  24" X 72" TWIN ALTERNATING 1.5" CLACK 1.5" FNPT  NO SALT CONDITIONER  CONTROLLER TWS EF-25-IN TWS-1.5  UV DISINFECTION  MODEL# GPM CONNECTIONS	EASYWATER TS-2472-1.5C-TA-NBC-UV-S  30 40 1.5" FNPT CPVC 120 / 7.5A / 60HZ  TOXINSHIELD FILTRATION  TANK DIMENSIONS TYPE VALVE CONNECTIONS ELECTRICAL 24" X 72" TWIN ALTERNATING 1.5" CLACK 1.5" FNPT SYSTEM SINGLE DISCONNECT  NO SALT CONDITIONER  CONTROLLER TWS ELECTRICAL EF-25-IN TWS-1.5 SYSTEM SINGLE DISCONNECT  UV DISINFECTION  MODEL# GPM CONNECTIONS ELECTRICAL	EASYWATER TS-2472-1.5C-TA-NBC-UV-S   30   40   1.5" FNPT CPVC   120 / 7.5A / 60HZ   4,200

A. ALL COMPONENTS SHALL BE SKID MOUNTED AS A SINGLE UNIT PRE-PIPED AND PRE-WIRED. B. PROVIDE ISOLATION VALVES BETWEEN UNIT AND PIPE CONNECTIONS.

		WAT	ER PIPE	SIZING	CHART	(IPC)		
		L	EVEL 0,	LEVEL 1	, LEVEL	2		
			FIXTURE	UNITS VS. PRESSUR	RE LOSS			
			IN PSI / 100 F	EET FOR TYPE "L" CO	OPPER TUBE			
		COLD WATER @	) 5.50 PSI / 100'			НОТ	WATER @ 5.5 PS	/ 100'
PIPE	INTERNAL	FLUSH TANK	FLUSH VALVE	VELOCITY	FLOW	FLUSH TANK	VELOCITY	FLOW
SIZE	DIAMETER	SFU	SFU	FEET / SEC	GPM	SFU	FEET / SEC	GPM
1/2"	0.545	0.8	N/A	3.5	2.5	*	*	*
3/4"	0.785	3.0	N/A	4.4	6.5	*	*	*
1"	1.025	8.5	N/A	5.2	13.2	8	5	12.8
1-1/4"	1.265	29.4	8.3	5.9	23.1	19.9	5	19.5
1-1/2"	1.505	74.9	22.4	6.6	36.4	45	5	27.7
2"	1.985	252.9	132.9	7.8	75.5	120.9	5	48.2
2-1/2"	2.465	473.6	357.8	8.0	118.9	246.8	5	74.3
3"	2.945	749.1	697.3	8.0	169.8	406	5	106.1
4"	3.905	1764.4	1764.4	8.0	298.6	859.4	5	186.6
6"	5.845	5269.9	5269.9	8.0	669.0	2859.7	5	418.1
8"	7.725	10143.1	10143.1	8.0	1168.6	5653.3	5	730.3
	•	SIZE	D WITH HAZEN WILLIA	AMS CONSTANT "C" =	135	*UTILIZE	COLD WATER SIZING	CHART

		WAT	ER PIPE	SIZING	CHART	(IPC)		
				LEVEL 3				
			FIXTURE	UNITS VS. PRESSUF	RE LOSS			
			IN PSI / 100 F	EET FOR TYPE "L" C	OPPER TUBE			
		COLD WATER (	@ 4.00 PSI / 100'			НОТ	WATER @ 4.0 PS	l / 100'
PIPE	INTERNAL	FLUSH TANK	FLUSH VALVE	VELOCITY	FLOW	FLUSH TANK	VELOCITY	FLOW
SIZE	DIAMETER	SFU	SFU	FEET / SEC	GPM	SFU	FEET / SEC	GPM
1/2"	0.545	0.7	N/A	2.9	2.1	*	*	*
3/4"	0.785	2.3	N/A	3.7	5.5	*	*	*
1"	1.025	6.4	N/A	4.4	11.1	*	*	*
1-1/4"	1.265	19.6	6.8	5.0	19.4	*	*	*
1-1/2"	1.505	55.6	14.6	5.5	30.7	45	5	27.7
2"	1.985	193.1	87.8	6.6	63.6	120.9	5	48.2
2-1/2"	2.465	439.3	323.5	7.6	112.4	246.8	5	74.3
3"	2.945	749.1	697.3	8.0	169.8	406	5	106.1
4"	3.905	1764.4	1764.4	8.0	298.6	859.4	5	186.6
6"	5.845	5269.9	5269.9	8.0	669.0	2859.7	5	418.1
8"	7.725	10143.1	10143.1	8.0	1168.6	5653.3	5	730.3
	•	SIZ	ED WITH HAZEN WILLIA	AMS CONSTANT "C" =	135	*UTILIZE	COLD WATER SIZING	G CHART

		WAT	ER PIPE	SIZING	CHART	(IPC)		
				LEVEL 4	ļ			
			FIXTURE	UNITS VS. PRESSUI	RE LOSS			
			IN PSI / 100 F	EET FOR TYPE "L" C	OPPER TUBE			
		COLD WATER @	) 3.50 PSI / 100'			НОТ	WATER @ 3.5 PS	l / 100'
PIPE	INTERNAL	FLUSH TANK	FLUSH VALVE	VELOCITY	FLOW	FLUSH TANK	VELOCITY	FLOW
SIZE	DIAMETER	SFU	SFU	FEET / SEC	GPM	SFU	FEET / SEC	GPM
1/2"	0.545	0.6	N/A	2.7	1.9	*	*	*
3/4"	0.785	2.1	N/A	3.4	5.1	*	*	*
1"	1.025	5.7	N/A	4.0	10.4	*	*	*
1-1/4"	1.265	16.2	6.2	4.6	18.1	*	*	*
1-1/2"	1.505	48.1	11.9	5.2	28.5	45	5	27.7
2"	1.985	171.0	73.7	6.1	59.2	120.9	5	48.2
2-1/2"	2.465	398.2	276.0	7.0	104.6	246.8	5	74.3
3"	2.945	734.1	677.1	7.9	167.0	406	5	106.1
4"	3.905	1764.4	1764.4	8.0	298.6	859.4	5	186.6
6"	5.845	5269.9	5269.9	8.0	669.0	2859.7	5	418.1
8"	7.725	10143.1	10143.1	8.0	1168.6	5653.3	5	730.3
	•	SIZE	D WITH HAZEN WILLIA	AMS CONSTANT "C" =	135	*UTILIZE	COLD WATER SIZING	G CHART

MEDIUM PRESS	SURE GAS	TOTAL CO	ONNECTED NATURAL GAS	LOAD
DIDE CIZINO	CLIADT	KITCHEN EQUIPMENT		
PIPE SIZING	CHARI	EQUIPMENT		
PIPE		DESIGNATION	DESCRIPTION	CFH (EACH)
SIZE	LOAD (CFH)	2 40	RANGE/OVEN	243
1/2"	234	2 42	GRIDDLE	120
3/4"	490	2 43	FRYER	145
1"	923	2 45	COMBI STEAMER	152
1-1/4"	1.896		TOTAL =	660
1-1/2"	2.841	MECHANICAL EQUIPMENT		
2"	5.471	EQUIPMENT		
2-1/2"	8,720	DESIGNATION	DESCRIPTION	CFH (EACH)
3"	15,415	B1	HEATING BOILER	1750
4"	31.441	B2	HEATING BOILER	1750
5"	56,881	B3	HEATING BOILER	1750
6"	92.103	WH1	WATER HEATER	199
8"	189,237	WH2	WATER HEATER	199
10"	343,705	GENERATOR	EMERGENCY GENERATOR	2571
12"	544,128	FIREPLACE	FIREPLACE	87
FOR SCHEDULE 40 STEEL PIPE			TOTAL =	8306
SPECIFIC GRAVITY OF GAS =	0.60			
UPSTREAM PRESSURE (PSI) =	2		TOTAL CONNECTED LOAD =	8966
DOWNSTREAM PRESSURE (PSI) =	1			
PRESSURE LOSS (PSI) =	1.0	NATURAL GAS SYSTEM OPERATING F	PRESSURE: 2	PSI
TOTAL DEVELOPED		NATURAL GAS SYSTEM SIZED WITH T	OTAL DEVELOPED LENGTH FROM	
LENGTH (FEET) =	350	GAS METER TO MOST REMOTE PIECE	OF EQUIPMENT:	350 FEET
BASED ON NFPA 54 EQUATION 4-2		SYSTEM DESIGN PRESSURE DROP:	1	PSI

MARK	MANUFACTURER	MODEL	VALVE TYPE	VALVE BODY SIZE (INCHES)	MAX. FLOW RATE (CFH)	INLET PRESSURE (PSI)	OUTLET PRESSURE (INCHES WATER COLUMN)	SERVICE	NOTES
GPR1	PIETRO-FIORENTINI	31051	С	1/2"	552	1	7"	FIREPLACE	A, B, D, E, F, G, H
GPR2	PIETRO-FIORENTINI	31151	С	3/4"	1,421	1	7"	WH1 & WH2	A, B, D, E, F, G, H
GPR3	PIETRO-FIORENTINI	31053	С	1"	893	1	7"	KITCHEN EQUIPMENT	A, B, D, E, F, G, H
GPR4	PIETRO-FIORENTINI	31152	С	1"	1,786	1	7"	BOILERS	A, B, D, E, F, G, H
GPR5	PIETRO-FIORENTINI	31153	С	1-1/2"	3,735	1	7"	EMERGENCY GENERATOR	A, B, D, E, F, G, H

C = SELF CONTAINED "DIRECT ACTING" DIAPHRAGM TYPE WITH INTERNAL VENT LIMITER

DROOP = 1" WATER COLUMN MAXIMUM DROOP = 2" WATER COLUMN MAXIMUM

65# ALUMINUM BODY, SCREWED CONNECTIONS AND OVERPRESSURE PROTECTION TO 25 PSI

MAXIMUM FLOW RATE SCHEDULED, MATCH BODY SIZE AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LOADS. LISTED TO MEET ANSI Z21.80 / CSA 6.22 WITH CSA LISTING STAMP ON REGULATOR BODY

G. GAS PRESSURE REGULATOR INLET PRESSURE = OPERATING PRESSURE - DESIGN FRICTION LOSS

H. 2 PSI MAXIMUM INLET PRESSURE AND 1 PSI MINIMUM INLET PRESSURE

I.	PROVIDE EXTERNAL VENT LIMITER (WHERE APPROVED BY LOCAL AUTHORITIES) FOR INDOOR INSTALLATION AND INSTALL PER SPECIFICATIONS. INSTALL OUTDOORS PER SPECIFICATIONS.

				TOTAL	NUMBER OF	LENGTH PER	PIPE HEAT	TEMP. SE	TTING (°F)		ELECTRICAL		
MARK	MANUFACTURER	MODEL#	APPLICATION	LENGTH (FT)	CIRCUITS	CIRCUIT (FT)	LOSS (W/FT)	ON	OFF	VOLTS	WATTS	PHASE	NOTE
HT1	RAYCHEM	5XL2-CR	FREEZE PROTECTION	250	1	250	5.115	40	55	277	2839	1	A, C, D,
HT2	RAYCHEM	8XL2-CT	FLOW MAINTENANCE	60	1	60	3.3	110	125	277	864	1	B, C, D,
HT3	RAYCHEM	5XL2-CR	FREEZE PROTECTION	405	1	405	3.069	40	55	277	4600	1	A, C, D,
HT4	RAYCHEM	5XL2-CR	FREEZE PROTECTION	335	1	335	3	40	55	277	3805	1	A, C, D,
HT5	RAYCHEM	5XL2-CR	FREEZE PROTECTION	375	1	375	2.4	40	55	277	4259	1	A, C, D,
HT6	RAYCHEM	5XL2-CR	FREEZE PROTECTION	445	2	465	2.4	40	55	277	5281	1	A, C, D,

POLYOLEFIN OUTER JACKET.

FLUOROPOLYMER OUTER JACKET REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

D. REFER TO HEAT TRACE CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE WIRING FROM CONTROL PANEL TO JUNCTION BOX ADJACENT TO THE BEGINNING OF THE HEAT TRACE SYSTEM. PRIOR TO BID COORDINATE WITH MANUFACTURER TO DETERMINE REQUIRED COMPONENTS TO COMPLETE THE SYSTEM.

MARK	MANUFACTURER /	DISCHARGE HEADER	SUCTION HEADER	NUMBER	SYSTEM FLOW	INDIVIDUAL PUMP	SUCTION HEADER	DISCHARGE HEADER		ELEC
	MODEL#	PRESSURE (PSI)	PRESSURE (PSI)	OF PUMPS	RATE (GPM)	CAPACITY	SIZE (IN.)	SIZE (IN.)	VOLTS	PHASE
BP2	GRUNDFOS # CRE-PLUS 15-2	66.2	49.4	1	80	100%	2"	2"	480	3

MARK	MANUFACTURER/	AREA	INPUT	ELECTR	ICAL REQUIR	EMENTS	THERMAL	RECOVERY	WEIGHT	NOTES
	MODEL#	SERVED	MBH	VOLTS	PHASE	FLA	EFFICIENCY (%)	(GPH)	(LBS)	
WH1	LOCHINVAR #AWN200PM	ENTIRE BUILDING	199	120	1		96	233	181	A, C, D, E
WH2	LOCHINVAR #AWN200PM	ENTIRE BUILDING	199	120	1		96	233	181	A, C, D, E

A. 100° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE C. FURNISHED WITH FACTORY ALL-BRONZE CIRCULATION PUMP

D. ULTRA LOW NOX TYPE - RESIDUAL NOX IS LESS THAN 14 ng / joule. COMPLIES WITH SCAQMD RULE 1146.2 E. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT TO MATCH HEATER INPUT.

MARK	MANUFACTURER /	TANK SIZE	MIN. ACCEPTANCE	AIR PRESSURE	SERVICE	WEIGHT	NOTES
	MODEL#	(GALLONS)	VOLUME (GALLONS)	SETTING (PSI)		(LBS)	
ET2	AMTROL ST-80V-C	53	22.3	72	WH1 & WH2	675	A, B

CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE. ASME LABLED

	E	<b>EXPANS</b>	ION TANK S	SCHEDUL	.E				HOT WATER S	TORAGE TA	NK SCH	<b>IEDUL</b>	E
MARK	MANUFACTURER / MODEL #	TANK SIZE (GALLONS)	MIN. ACCEPTANCE VOLUME (GALLONS)	AIR PRESSURE SETTING (PSI)	SERVICE	WEIGHT (LBS)	NOTES	MARK	MANUFACTURER/ MODEL#	AREA SERVED	TANK SIZE (GALLONS)	WEIGHT (LBS)	NOTES
ET1	AMTROL ST-5	2	0.9	60	WHE1	22	Α	ST1	LOCHINVAR # RGA0940	ENTIRE BUILDING	940	2,710	A, B, C, D
OTES:	CHARGE TANK WITH AIR TO	IDENTICAL PRESSUR	E AS STATIC DOMESTIC WAT	ER PRESSURE.				NOTES:  A. B.	REFER TO SPECIFICATIONS FOR M	ORE INFORMATION			
								C D	VERTICAL TANK WITH FACTORY PROVIDED INSULA	TION AND METAL JACKET			

MARK	MANUFACTURER/	AREA	TANK SIZE	ELE	CTRICAL D	ATA	RECOVERY	WEIGHT	NOT
	MODEL#	SERVED	(GALLONS)	VOLTS	PHASE	KW	(GPH)	(LBS)	
NHE1	A. O. SMITH DRE 52	LEVEL 3 LOCKER RM	50	480	3	36.0	147	665	A,

A. 20° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE FED FROM BUILDING HOT WATER SYSTEM. B. WITH BALANCED THREE PHASE CIRCUIT

			CONDE	NSATE PUMF	SCHE	DUL	E					
			PLENUM RATED	MAX. LOAD SERVED	FLOWRATE	HEAD	SHUTOFF	RESERVOIR		ELEC DATA		
MARK	MANUFACTURER / MODEL#	LOCATION	(Y/N)	(NOMINAL COOLING TONS)	GAL/HR	(FT WG)	HEAD (FT WG)	SIZE (GAL.)	HP	FLA @120V	FLA @230V	NOTES
CP1	LITTLE GIANT / VCMA-20ULS	STORAGE RM 2404	N	12	40	12	20	0.5	1/30	1.5	0.5	A,B,C,D
NOTES:												

REFER TO ELECTRICAL PLANS FOR ELECTRICAL JUNCTION BOX LOCATION. B. PROVIDE WITH HIGH LEVEL SAFETY SWITCH OR PUMP FAILURE SAFETY SWITCH.

FOR NON-CRITICAL COOLING APPLICATIONS, COORDINATE INTERLOCK OF SAFETY SWITCH WITH MECHANICAL FAN COIL UNIT TO SHUT DOWN UNIT IN THE EVENT OF HIGH LIQUID LEVEL IN RESERVOIR OR PUMP FAILURE. FOR CRITICAL COOLING APPLICATIONS, COORDINATE INTERLOCK OF SAFETY SWITCH TO SIGNAL AN ALARM AT THE BAS IN THE EVENT OF HIGH LIQUID LEVEL IN RESERVOIR OR PUMP FAILURE.

MAXIMUM VOLTAGE FOR SAFETY SWITCH (HIGH LEVEL OR PUMP FAILURE) IS 24 VOLTS (CLASS 2 LOW VOLTAGE CIRCUIT). LOCATE RESERVOIR BELOW THE DRAIN OUTLET OF CDB OR HVAC UNIT SERVED TO ALLOW FREE DRAINAGE BY GRAVITY INTO THE PUMP'S RESERVOIR. LOCATE PUMP IN AN ACCESSIBLE LOCATION

PER MANUFACTURER'S INSTRUCTIONS. E. PUMP SHALL BE TESTED AND LABELLED PER UL STANDARD 2043 FOR USE IN A RETURN AIR PLENUM.

RE	CIRCULATION	ON P	UMP	SCHEDU	JLE				
			HEAD	CONNECTION	IMPELLER		ELECTR		
MANUFACTURER / MODEL#	LOCATION	GPM	(FT.)	SIZE	SIZE (IN.)	VOLTS	PHASE	HP	NOTES
GOSSETT # 60 - 1AA	MECHANICAL 0124	13	23	1 1/4"	4.84	120	1	1/3	A, B, C, D
GOSSETT # 60 - 1AA	MECHANICAL 0124	13	23	1 1/4"	4.84	120	1	1/3	A, B, C, D
GOSSETT # PR	PLUMBING 3506	1.3	10.4	3/4"	N/A	120	1	1/6	A, B, C, D

A. ALL LEAD FREE CAST BRONZE BOOSTER.

RP1 BELL & GOSSETT # 60 - 1

RP2 BELL & GOSSETT # 60 - 1.

RP3 BELL & GOSSETT # PR

B. PROVIDE WITH STRAINER UPSTREAM OF PUMP C. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C

D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10F BELOW SET POINT

1ARK	MANUFACTURER/	MODEL#	AREA SERVED	GPM	HEAD	DISCHARGE	E	LECTRICAL	-	NOTES
					(FT.)	SIZE (IN.)	VOLTS	PH	HP	
SP1	WEIL	2532-1150	GARAGE & MECH YARD	924	33	6	460	3	20	B, C, D, E, H, I, J
SP2	ZOELLER	14292	LEVEL 0 MECH ROOM	35	30	2	208	1	1/2	A, C, D, F, H, I,
SP3	ZOELLER	14292	CAFÉ GI1/MECH RM 0112	35	30	2	208	1	1/2	A, C, D, G, H, I, .

PROVIDE WITH DUPLEX CONTROL PANEL, REFER TO SPECIFICATIONS FOR MORE INFORMATION. DISCONNECT IS PROVIDED BY DIVISION 26. PROVIDE WITH WEIL #8194V DUPLEX VFD CONTROL PANEL, REFER TO SPECIFICATIONS FOR MORE INFORMATION. PROVIDE DISCHARGE PIPING, FULL PORT BALL VALVE AND NON-CLOG CHECK VALVE. REFER TO DETAIL FOR MORE INSTALLATION INFORMATION.

5'-0" X 5'-0", 15'-0" DEEP CONCRETE BASIN, RE: STRUCTURAL DRAWINGS

F. 4'-0" X 4'-0", 11'-0" DEEP CONCRETE BASIN, RE: STRUCTURAL DRAWINGS G. 4'-0" X 4'-0", 9'-0" DEEP CONCRETE BASIN, RE: STRUCTURAL DRAWINGS

H. INFORMATION IS FOR ONE PUMP, PROVIDE DUPLEX SYSTEM FURNISH WITH RAIL RETRIEVAL SYSTEM PER PUMP MANUFACTURER'S RECOMMENDATIONS.

PROVIDE BILCO KD-2 48" X 48" DOOR OVER PIT.

	/A TOI	2011	NAD E	NI INAD C		DI II		
ELE	VAIOI	<b>30</b>	MP F	'UIVIP S	CHE	וטענ	_ <b>_</b> _	
MANUEACTURER	MODEL #	CDM	HEAD	DISCHARGE	E	LECTRICA	L	NOTES
MANUFACTURER	MODEL#	GPIVI	(FT.)	SIZE (IN.)	VOLTS	PH	HP	NOTES
ZOELLER	N139	50	11	2"	120	1	1/2	A, B, C, D & E
ZOELLER	N140	50	25	2"	120	1	1	A, B, C, D & E
ZOELLER	N140	50	22	2"	120	1	1	A, B, C, D & E
PROVIDE ZOELLER VA	RIABLE LEVEL	CONTROL S	WITCHES.					
PROVIDE ZOELLER CO	NTROL ALARM	SYSTEM.						
PROVIDE 2" DISCHARG	SE PIPING, SHU	TOFF VALVE	E AND ZOELI	ER #30-0030 FLA	PPER NON-C	CLOG CHEC	CK VALVE.	
REFER TO DETAIL FOR	MORE INSTAL	LATION INFO	ORMATION.					
	MANUFACTURER  ZOELLER  ZOELLER  ZOELLER  PROVIDE ZOELLER VA PROVIDE ZOELLER CO	MANUFACTURER MODEL #  ZOELLER N139  ZOELLER N140  ZOELLER N140  PROVIDE ZOELLER VARIABLE LEVEL OF PROVIDE ZOELLER CONTROL ALARM PROVIDE 2" DISCHARGE PIPING, SHU	MANUFACTURER MODEL # GPM  ZOELLER N139 50  ZOELLER N140 50  ZOELLER N140 50  PROVIDE ZOELLER VARIABLE LEVEL CONTROL S PROVIDE ZOELLER CONTROL ALARM SYSTEM. PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE	MANUFACTURER MODEL # GPM (FT.)  ZOELLER N139 50 11  ZOELLER N140 50 25  ZOELLER N140 50 22  PROVIDE ZOELLER VARIABLE LEVEL CONTROL SWITCHES. PROVIDE ZOELLER CONTROL ALARM SYSTEM.	MANUFACTURER  MODEL #  GPM  HEAD  (FT.)  ZOELLER  N139  50  11  2"  ZOELLER  N140  50  25  2"  ZOELLER  N140  50  22  2"  PROVIDE ZOELLER VARIABLE LEVEL CONTROL SWITCHES.  PROVIDE ZOELLER CONTROL ALARM SYSTEM.  PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE AND ZOELLER #30-0030 FLAR	MANUFACTURER         MODEL #         GPM         HEAD (FT.)         DISCHARGE SIZE (IN.)         EVALUATION FOR THE PROVIDE ZOELLER           MODEL #         GPM         HEAD (FT.)         DISCHARGE SIZE (IN.)         EVALUATION FOR THE PROVIDE ZOELLER           VOLTS         20         21         120           VOLTS         22         2"         120           PROVIDE ZOELLER VARIABLE LEVEL CONTROL SWITCHES.         PROVIDE ZOELLER CONTROL ALARM SYSTEM.           PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE AND ZOELLER #30-0030 FLAPPER NON-COMPANY.	MANUFACTURER         MODEL #         GPM         HEAD (FT.)         DISCHARGE SIZE (IN.)         ELECTRICA VOLTS         PH           ZOELLER         N139         50         11         2"         120         1           ZOELLER         N140         50         25         2"         120         1           ZOELLER         N140         50         22         2"         120         1           PROVIDE ZOELLER VARIABLE LEVEL CONTROL SWITCHES.           PROVIDE ZOELLER CONTROL ALARM SYSTEM.           PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE AND ZOELLER #30-0030 FLAPPER NON-CLOG CHECK	MANUFACTURER         MODEL #         GPM         (FT.)         SIZE (IN.)         VOLTS         PH         HP           ZOELLER         N139         50         11         2"         120         1         1/2           ZOELLER         N140         50         25         2"         120         1         1           ZOELLER         N140         50         22         2"         120         1         1           PROVIDE ZOELLER VARIABLE LEVEL CONTROL SWITCHES.           PROVIDE ZOELLER CONTROL ALARM SYSTEM.           PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE AND ZOELLER #30-0030 FLAPPER NON-CLOG CHECK VALVE.

INSTALL IN 24" SQUARE x 24" DEEP SUMP PIT LOCATED IN ELEVATOR PIT, SEE ARCHITECTURAL DRAWINGS.

	HEAT	TRACE C	ONTROL	PANE	EL SC	HEDU	LE	
			DEVICE SERVED		E	LECTRICAL DAT	ГА	
MARK	MANUFACTURER	MODEL#	SERVED	QUANTITY	WATTS	VOLTS	PHASE	NOTES
HTCP1	RAYCHEM	# C910-485	HT1	1	2839	277	1	A-G
HTCP2	RAYCHEM	# C910-485	HT2	1	864	277	1	A-G
HTCP3	RAYCHEM	# C910-485	HT3	1	4600	277	1	A-G
HTCP4	RAYCHEM	# C910-485	HT4	1	3805	277	1	A-G
HTCP5	RAYCHEM	# C910-485	HT5	1	3805	277	1	A-G
HTCP6	RAYCHEM	# C910-485	HT6	2	3805	277	1	A-G

NOTES:

A. NEMA 4X FRP ENCLOSURE WITH GROUND FAULT CIRCUIT PROTECTION.

B. LED DISPLAY AND KEYPAD INTERFACE. C. ALARM LIGHTS FOR HIGH AND LOW TEMPERATURE, CURRENT AND GROUND FAULT. D. DRY ALARM CONTACTS FOR INTERLOCK WITH BUILDING MANAGEMENT SYSTEM.

PROVIDE WITH # RTD4AL REMOTE TEMPERATURE DEVICE AND # RTD-200 STAINLESS STEEL CABLE, LENGTH AS REQUIRED. MOUNT REMOTE TEMPERATURE SENSING DEVICE ON PIPE UNDER INSULATION. REFER TO PLANS FOR LOCATION(S) AND QUANTITY.

COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING FROM CONTROL PANEL TO JUNCTION BOX WHERE HEAT TAPE SYSTEM BEGINS. G. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

PLUMBING FIXTURE SCHEDULE PLAN MARK AAV AIR ADMITTANCE VALVE; STUDOR "MINI-VENT" # 20301, MEETING ASSE 1051 TYPE "A". POLYSTYRENE PROTECTIVE COVER, ABS VALVE WITH ELASTROMERIC MEMBRANE AND PVC CONNECTOR, 2" INLET, AND ATMOSPHERIC PORT. AREA DRAIN: JAY R. SMITH # 2120L (-M), CAST IRON BODY, HEAVY-DUTY, 8" DIAMETER, DUCTILE IRON GRATE, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. USE PUSH-ON JOINT OR CAULK OUTLET OF SIZE AS SHOWN ON PLANS. PARKING DECK DRAIN: JAY R. SMITH #1416 (-S) (-M) (-C), CAST IRON BODY. HEAVY-DUTY, 14" SQUARE, DUCTILE IRON GRATE, SEEPAGE PAN, MEMBRANE FLASHING CLAMP, AND FIXED EXTENSION, AND UNDERDECK CLAMP, USE NO-HUB OUTLET OF SIZE AS SHOWN ON PLANS. FIXED EXTENSION SHALL SET TOP OF GRATE AT FINISHED DECK SLAB. REFER TO ARCHITECRUALY AND STRUCTURAL DRAWINGS FOR EXACT THICKNESS OF SLAB. GARAGE FLOOR DRAIN: JAY R. SMITH # 2120, CAST IRON BODY, 8-1/2" ROUND, LOOSE, EXTRA HEAVY DUTY. CAST IRON HEEL PROOF GRATE, SEDIMENT BUCKET, BOTTOM OUTLET. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. AIR FILTER: HANKISON # HF-7-20-4-G PARTICULATE CARTRIDGE TYPE WITH METAL HOUSING AND DIFFERENTIAL PRESSURE INDICATOR. FILTER SHALL BE CAPABLE OF REMOVING PARTICLES TO 1 MICRON AND OIL TO 1 PPM AT 60 SCFM AT 100PSI. AIR HOSE: LINCOLN # 84606 SELF COILING AIR HOSE OF 25 FEET IN LENGTH WITH 1/4" MNPT INLET AND OUTLET AND A WORKING PRESSURE OF 200 PSIG. PROVIDE ADAPTERS AS REQUIRED. ACCESS PANEL: JAY R. SMITH # 4762 - 12" x 12" - CL, TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK. PROVIDE WITH NAILER SLOTS FOR INSTALLATION IN STUD WALLS AND ANCHOR STRAPS FOR INSTALLATION IN MASONRY CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4767 - 12" x 12" - CL, TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK, AND 1/4" SLOTS FOR INSTALLATION IN PLASTER OR WET WALL CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4762 - 18" x 18" - CL. TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK. PROVIDE WITH NAILER SLOTS FOR INSTALLATION IN STUD WALLS AND ANCHOR STRAPS FOR INSTALLATION IN MASONRY CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4767 - 18" x 18" - CL, TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK, AND 1/4" SLOTS FOR INSTALLATION IN PLASTER OR WET WALL CONSTRUCTION. ACCESS PANEL: JAY R. SMITH # 4767 - 24" x 24" - CL. TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK, AND 1/4" SLOTS FOR INSTALLATION IN PLASTER OR WET WALL CONSTRUCTION. BACK WATER VALVE WITH REMOVABLE FLAPPER: CLEAN CHECK INC. PVC FLAPPER ASSEMBLY TYPE, WITH PVC BODY WITH SOCKET CONNECTIONS, PVC EXTENSION LENGTH AS REQUIRED AND PVC PLUGGED COVER CONNECTION. PROVIDE WITH JAY R SMITH #4250 SERIES DUCO CAST IRON DOUBLE FLANGED HOUSING WITH SECURED SCORIATED COVER WITH LIFTING DEVICE, LESS CLEANOUT FERRULE. REFER TO DETAIL AND SPECIFICATION FOR INSTALLATION. BACK WATER VALVE: JAY R. SMITH # 7140Y04 AUTOMATIC HYDRAULICALLY ACTUATED TYPE WITH 304 STAINLESS STEEL KNIFE GATE, "O"-RING SEALS, CAST IRON BODY WITH "NO-HUB" CONNECTIONS. PVC BELLOWS WITH POLYETHYLENE COVER. PROVIDE WITH J.R. SMITH # FG36S POLYPROPYLENE VALVE PIT WITH 28" DIAMETER STEEL COVER. CONDENSATE DRAIN BOX: SIOUX CHIEF "OXBOX" MODEL # 696-3 OUTLET BOX, MODEL #696-CF SECONDARY DRAINAGE FUNNEL AND #696-SC SOLID COVER PLATE. DOUBLE CHECK VALVE BACKFLOW PREVENTER: WATTS # LF007QT-S, MEETING ASSE 1015, LEAD FREE CAST BRONZE BODY, SCREW DRIVER SLOTTED TEST COCKS, QUARTER TURN BALL VALVES, AND STRAINER. DOWNSPOUT BOOT: NEENAH FOUNDRY 4929 4X6 DOWNSPOUT SHOE WITH 45 DEGREE DISCHARGE SPIGOT. MOUNT TO COLUMN SO THAT DISCHARGE IS ABOVE CONCRETE SLAB. PROVIDE PIPE ADAPTOR AS REQUIRED. DOWNSPOUT NOZZLE: JAY R. SMITH # 1770T, CAST BRONZE BODY AND FLANGE. PROVIDE OUTLET SIZE AS SHOWN ON PLANS. EXTERIOR CLEANOUT: JAY R. SMITH # 4261L SERIES DUCO CAST IRON DOUBLE AND PUSH-ON JOINT. REFER TO SPECIFICATIONS FOR INSTALLATION. BRONZE FINISH. MEETING ASSE 1071. CORROSION RESISTANT INTERNAL PARTS RECESSED BOTTLE FILLING STATION WITH HIGH/LOW NON-RECESSED DRINKING CONNECTED TO BUILDING FILTERED WATER SYSTEM. ELECTRICAL REQUIREMENTS: 120V RECEPTICLE FOR HANDS FREE POWER STAINLESS STEEL BELLOWS AND 304 STAINLESS STEEL SINGLE BRAID WITH CLASS 150 STAINLESS STEEL WELDED PLATE FLANGE ON EACH PIPE WITH A MAXIMUM OPERATING PRESSURE OF 261 PSI. STAINLESS STEEL BELLOWS AND 304 STAINLESS STEEL SINGLE BRAID WITH MALE NPT THREADED CONNECTIONS WITH INTREGRAL HEX AND WITH A MAXIMUM OPERATING

FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH  $\parallel$ LIFTING DEVICE AND CLEANOUT BODY WITH ABS PLASTIC PLUG WITH GASKET SEAL DECK-MOUNTED EMERGENCY EYE WASH: GUARDIAN # G1805, TWO GS-PLUS SPRAY HEADS WITH SELF REGULATING FLOW CONTROL AND DUST COVERS, REFER TO PLANS FOR RIGHT AND LEFT SIDE MOUNTING, CHROME-PLATED BRASS DECK FLANGE, AND EMERGENCY MIXING VALVE: POWERS # ES150-AF05012, BRONZE BODY WITH ROUGH CHECK STOPS WITH REMOVABLE STRAINERS, DUAL INTERNAL COLD WATER BYPASS, PARAFFIN FILLED TEMPERATURE ELEMENT. DIAL THERMOMETER ON OUTLET, CAPABLE OF 4 GPM WITH A 5 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 1.0 GPM, AND STAINLESS STEEL WALL-MOUNTED CABINET. MAXIMUM TEMPERATURE STOP SET FOR EWC ELECTRIC WATER COOLER (ADA ACCESSIBLE): FILTRINE MODEL B103-107-16-MOD-HL FOUNTAINS. SATIN STAINLESS STEEL, WITH HANDS-FREE SENSORS. UNIT SHALL BE TRIM: McGUIRE # LF2165CC LEAD FREE BRASS COMPRESSION ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND FLEXIBLE CONNECTOR: UNITED FLEXIBLE #AFBX1, 4" X 12" LONG CORRUGATED 316L

FC2 FLEXIBLE CONNECTOR: UNITED FLEXIBLE #AFBX1, 2" X 12"LONG CORRUGATED 316L

FLOOR CLEANOUT: JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE, TOP. #4031L (-F-C), SCORIATED TOP FOR EXPOSED, FLUSH WITH FINISHED FLOOR, APPLICATION(S), #4031L (-F-C-Y), STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S), # 4151 (-F-C), 1/8" RECESS FOR INSTALLATION IN TILED FLOOR AREA(S), # 4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S). REFER TO SPECIFICATIONS FOR INSTALLATION. FLOOR CLEANOUT - HEAVY DUTY: JAY R. SMITH # 4111L CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, HEAVY DUTY SCORIATED NICKEL BRONZE TOP. REFER TO SPECIFICATIONS FOR INSTALLATION FLOW CONTROL VALVE: FLOWDESIGN # ICSS "AUTOFLOW", SERIES 300 STAINLESS

COMPENSATING CARTRIDGE. MEETING NSF 61 ANNEX G, NAMEPLATE AND 1/2" VALVE BODY SIZE UNLESS SHOWN OTHERWISE ON PLANS. PROVIDE 0.5 GPM FLOW RATE CARTRIDGE UNLESS SHOWN OTHERWISE ON PLANS. FLOOR DRAIN: JAY R.SMITH # 2005L (-A), CAST IRON BODY AND CLAMPING COLLAR. ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP SEAL: PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE.

EQUIPMENT FLOOR DRAIN: JAY R. SMITH # 2220L, CAST IRON BODY AND FLASHING |COLLAR, 8-1/2" ROUND, VANDAL PROOF, HEAVY DUTY, DUCTILE IRON GRATE, SEDIMENT BUCKET, BOTTOM OUTLET, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP PRIMER: PROVIDE TRAP PRIMER PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE. FLOOR DRAIN: JAY R. SMITH # 2005L (-A), BRONZE BODY AND CLAMPING COLLAR, ADJUSTABLE 6" SQUARE CHROME PLATED STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP SEAL: PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE. FLOOR SINK: JAY R. SMITH # 3141L (-12), 6" DEEP CAST IRON BODY WITH ACID

RESISTING ENAMELED INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, WHITE ABS SEDIMENT BUCKET, AND 12-1/2" SQUARE NICKEL BRONZE RIM AND HALF GRATE. USEPUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. PVC FLOOR SINK: SIOUX CHIEF #861-X-P-C-2-861-UM SERIES WITH 6" DEEP SQUARE PVC BODY WITH PVC SOCKET OUTLET, ANCHOR FLANGE, CLAMP COLLAR, STAINLESS STEEL MESH STRAINER, 12" SQUARE PVC HALF GRATE. PROVIDE A P-TRAP, SIZE OF TRAP AND WASTE ARM AS SHOWN ON PLANS. QUICK DISCONNECT, GAS BALL VALVE, UNION, STREET ELBOW AND RESTRAINING

H.P. MOTOR WITH POWER CORD. PLASTIC GRIND CHAMBER. GALVANIZED STEEL TRIM: WASTE DISCHARGE KIT AND DISHWASHER TAILPIECE. ELECTRICAL REQUIREMENTS: 120-VOLT, 6.9 FULL LOAD AMPS. GLASS FILLER FAUCET – CHICAGO FAUCETS # 712-ABCP SINGLE HOLE DECK

WARRANTY AGAINST LEAKS AND STRUCTURAL FAILURE.

HOSE BIBB: PRIER PRODUCTS # C-258CP.75, POLISHED CHROME PLATED BRASS 3/4" MALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, AND ASSE 1011 INTEGRAL VACUUM BREAKER. PIPE 4" ABOVE FINISHED FLOOR. SIZE AS SHOWN ON FLOOR PLAN(S).

COMPRESSION ANGLE STOP VALVE. ICE MAKER BOX: GUY GRAY MODEL # BIM875, 20 GAUGE GALVANIZED STEEL BOX, 18 GAUGE STEEL FACEPLATE. BOTTOM INLET WATER SUPPLY WITH LEAD FREE 1/2" x 1/4" COMPRESSION ANGLE STOP VALVE.

WITH INTEGRAL STAINLESS STEEL DRAIN BODY. OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: STERN-WILLIAMS # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24"

STEEL DRAIN BODY OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD TRIM: STERN-WILLIAMS # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME

STAINLESS STEEL MOP HANGER. UNDERCOUNTER LAVATORY (ADA ACCESSIBLE): KOHLER # K-21058 "BRAZN" 21-5/16" X 16-3/8" RECTANGLE WHITE VITREOUS CHINA FIXTURE WITH OVERFLOW BRASS DRAIN AND COLOR-MATCHED BRASS DRAIN COVER FAUCET: STERN CSABA TOUCHLESS DECK MOUNTED FAUCET, SENSOR OPERATED WITH DUAL POWER INPUT BOX WITH 9V BATTERY (BATTERY NOT INCLUDED), POLISHED TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON,

PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): KOHLER K-2084 20" X 18" WHITE VITREOUS CHINA FIXTURE WITH SINGLE HOLE FAUCET LEDGE AND OVERFLOW. FAUCET: ZURN AQUASENSE Z6918-XL CHROME PLATED CAST BRASS 1.5 GPM VANDAL RESISTANT AERATOR, BATTERY POWERED TOUCHLESS SENSOR TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, PLUMBEREX 'PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

PLUMBING FIXTURE SCHEDULE

BRASS 1" MALE INLET BY 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION.

LOOSE KEY HANDLE, HYDRANT LENGTH AS REQUIRED FOR INSTALLED WALL THICKNESS, ADJUSTABLE WALL CLAMP, BRASS BOX WITH SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER. OVERFLOW ROOF DRAIN: JAY R. SMITH # 1830Y (-E-C2-CID), 8 1/2" DIAMETER CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET. FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN AND 2" HIGH WATER DAM. PROVIDE OUTLET SIZE AS SHOWN ON PLANS OVERFLOW ROOF DRAIN: JAY R. SMITH # 1850Y (-E-C2-CID), 12" DIAMETER CAST IRON BODY FLASHING CLAMP GRAVEL STOP UNDERDECK CLAMP SUMP RECEIVER HUBLESS OUTLET. FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED. INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN AND 2" HIGH WATER DAM. PROVIDE OUTLET SIZE AS SHOWN ON PLANS. PLANTER DRAIN: JAY R. SMITH # 1901Y, 15" DIAMETER CAST IRON BODY, FLASHING CLAMP. GRAVEL STOP. UNDERDECK CLAMP. SUMP RECEIVER. HUBLESS OUTLET. FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS,

AND CAST IRON DOME BOLTED OR LOCKED DOWN. PROVIDE OUTLET SIZE AS SHOWN

PROMENADE DECK DRAIN: JAY R. SMITH # 1446Y CAST IRON BODY, 14" SQUARE, CAST

IRON SECURED GRATE, FLASHING CLAMP WITH SEEPAGE SLOTS, FIXED EXTENSION AND UNDERDECK CLAMP. USE HUBLESS OUTLET OF SIZE AS SHOWN ON PLANS. PRESSURE REDUCING VALVE: WATTS # LF223, BRONZE BODY, STAINLESS STEEL SEAT, STAINLESS STEEL BOLTS, INLET AND OUTLET SIZE AS SHOWN ON PLANS, 25 - 75 PSI REDUCED PRESSURE RANGE. SET OUTLET PRESSURE TO XX PSI WITH FLOW RATE OF YY GPM AT A FALL OFF PRESSURE OF ZZ PSI DIFFERENTIAL. QUICK DISCONNECT: GRACO #110199 FEMALE COUPLER WITH 1/2" FNPT INLET AND GRACO # 168970 MALE NIPPLE WITH 1/2" MNPT OUTLET OF BRASS CONSTRUCTION. ROOF DRAIN: JAY R. SMITH # 1830Y (-E-C2-CID), 8 1/2" DIAMETER CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET, FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION FHICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN. PROVIDE OUTLET SIZE AS

PLAN MARK

ISHOWN ON PLANS. ROOF DRAIN: JAY R. SMITH # 1850Y (-E-C2-CID), 12" DIAMETER CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET. FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN. PROVIDE OUTLET SIZE AS SHOWN ON PLANS RPZ1 REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # 957-NRS. 4" MEETING ASSE 1013, 304 STAINLESS STEEL BODY AND SLEEVE, QUARTER TURN TEST COCKS, RESILIENT SEATED NON-RISING STEM GATE VALVES AND WATTS #77F-DI-FDA EPOXY COATED CAST IRON STRAINER AND # 957AG AIR GAP FITTING REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # LFU009AQT-S. MEETING

ASSE 1013, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, 90°D SWIVEL UNIONS, QUARTER TURN BALL VALVES, LEAD FREE BRONZE STRAINER, AND # | 909AG AIR GAP FITTING. RPZ3 REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # LFU009AQT-S, MEETING ASSE 1013, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, 90°D SWIVEL UNIONS, QUARTER TURN BALL VALVES, LEAD FREE BRONZE STRAINER, AND #909AG AIR GAP FITTING. SINK: SOLID SURFACE COUNTERTOP WITH UNDER COUNTER MOUNTED FORMICA SINGLE BOWL 1815 SINK. 102 ARCTIC WHITE. 19-1/8" X 16-1/4" FAUCET: AMTC HEALTHFLO AUTOMATIC FAUCET SYSTEM AEF-321HF 1.5 GPM SENSOF OPERATED POLISHE SURGICAL GRADE STAINLESS STEEL, PLUG-IN 6V AC POWER ADAPTER, SINGLE HOLE MOUNT.

TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # 151M CUP STRAINER WITH 1-1/2" 17 GAUGE TAILPIECE McGUIRE # 88912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON, PLUMBEREX PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. CORIAN DESIGN 8254 LAVATORY SINGLE BOWL 18"X12-3/4", 5" DEEP, GLACIER WHITE, IADA COMPLIANT FAUCET: AMTC HEALTHFLO AUTOMATIC FAUCET SYSTEM AEF-321HF 1.5 GPM SENSOF OPERATED POLISHE SURGICAL GRADE STAINLESS STEEL, PLUG-IN 6V AC POWER ADAPTER. SINGLE HOLE MOUNT TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # 151M CUP STRAINER WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS DJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON. PLUMBERE). PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. SINK (ADA ACCESSIBLE): ELKAY LUSTERTONE LRADQ252155, 25" x 21-1/4" x 5-1/2" DEEF SINGLE COMPARTMENT, CENTER SET 2 HOLE, SELF-RIMMING, 18 GAUGE TYPE 304

STAINLESS STEEL. FIXTURE WITH FAUCET LEDGE. SET IN BED OF PUTTY. FAUCET: ELKAY LK406LGN05T6 4" CENTERSET, EXPOSED DECK LAMINAR FLOW

PRIME RITE". CORROSION RESISTANT BRASS BODY. "O" RING SEALS. AND INTEGRAL

FLOOR. ALL EXPOSED PIPING SHALL BE CHROME-PLATED BRASS MEETING ASTM B-43.

VACUUM BREAKER. INSTALL THE VALVE AT A MINIMUM OF 12" ABOVE FINISHED

URINAL: TOTO # UT104E 0.5 GPF, LOW CONSUMPTION URINAL SYSTEM, WHITE

VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND WASHOUT

FLUSHING ACTION. 0.5 GPF UNIVERSAL BOWL, MEETS DEFINITION FOR HIGH

BREAKER AND 3/4" FLUSH TUBE AND SWEAT ADAPTER KIT.

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

BREAKER AND 3/4" FLUSH TUBE AND SWEAT ADAPTER KIT.

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

VALVE- ZURN "AQUASENCE AV" # ZER6003AV-CPM-EWS 0.5 GALLON PER FLUSH,

EXPOSED, CHROME-PLATED, SIDE MOUNTED CHROME PLATED METAL COVER WITH

FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM WITH PROTECTED ORIFICE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP, VACUUM

OVERRIDE BUTTON. BATTERY POWERED SENSOR OPERATED, DIAPHRAGM TYPE

URINAL (ADA ACCESSIBLE): TOTO # UT104E 0.5 GPF, LOW CONSUMPTION URINAL

WASHOUT FLUSHING ACTION. 0.5 GPF UNIVERSAL BOWL, MEETS DEFINITION FOR

VALVE- ZURN "AQUASENCE AV" # ZER6003AV-CPM-EWS 0.5 GALLON PER FLUSH,

SYSTEM, WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND

EXPOSED. CHROME-PLATED. SIDE MOUNTED CHROME PLATED METAL COVER WITH

FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM WITH PROTECTED ORIFICE.

ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP, VACUUM

WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION WITH 1-1/2"

VALVE: ZURN "AQUASENSE AV" # ZER6000AV-CPM-HET 1.28 GALLON PER FLUSH.

TYPE. FLUSH VALVE. WITH CHLORAMINE RESISTANT SEALS. MANUAL OVERRIDE

EXPOSED, CHROME-PLATED, BATTERY POWERED, SENSOR OPERATED, SOLENOID

BUTTON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER

TRIM: CHURCH # 9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY

WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE): TOTO # CT708E. WHITE VITREOUS

CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET

VALVE: ZURN "AQUASENSE AV" # ZER6000AV-CPM-HET 1.28 GALLON PER FLUSH.

TYPE, FLUSH VALVE, WITH CHLORAMINE RESISTANT SEALS, MANUAL OVERRIDE

EXPOSED, CHROME-PLATED, BATTERY POWERED, SENSOR OPERATED, SOLENOID

BUTTON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER

TRIM: CHURCH # 9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY

PLUG. STAINLESS STEEL ROUND COVER AND SCREW. AND IRON PLUG WITH GASKET

COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED

EPDM "O" RING SEALS, MEETING ASSE 1010 OR PDI WH-201. PROVIDE PDI SIZES "A"

NON-FREEZE YARD HYDRANT: PRIER P-650BX1 FREEZE PROOF GROUND HYDRANT

INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER. INSTALL PER DETAIL.

THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A" UNLESS SHOWN OTHERWISE

WITH 3/4" FEMALE INLET, 3/4" MALE THREADED HOSE CONNECTION, 1/8" DRAIN HOLE, LOOSE KEY OPERATOR. SATIN NICKEL PLATED BRASS BOX WITH CYLINDER LOCK AND

OVERRIDE BUTTON, BATTERY POWERED SENSOR OPERATED, DIAPHRAGM TYPE

WC1 WALL-MOUNTED WATER CLOSET: TOTO # CT708E, WHITW VITREOUS CHINA FIXTURE

DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND

DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND

WCO WALL CLEANOUT: JAY R. SMITH # 4530S, CAST IRON CLEANOUT TEE, COUNTER SUNK

STAINLESS-STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.

WHA WATER HAMMER ARRESTER: PRECISION PLUMBING PRODUCTS, HARD DRAWN

SEAL. REFER TO SPECIFICATIONS FOR INSTALLATION.

STAINLESS-STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.

EFFICIENCY URINAL (HEU).

HIGH EFFICIENCY URINAL (HEU)

TOP SPUD INLET. LESS SEAT.

ON THE PLANS

ADAPTER, SINGLE HOLE MOUNT.

FAUCET, 5" GOOSENECK SPOUT, 6" WRISTBLADE HANDLES, CHROME FINISH, 1.5 GPM QUARTER TURN CERAMIC DISC VALVE. NOTE: WHERE INDICATED WITH PLAN NOTE, INSTALL FOOT PEDAL VALVE ZURN Z85500-XL IN CONJUNCTION WITH MANUAL HAND TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # 151M CUP STRAINER WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON, AND PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. WALL-MOUNTED SINK (ADA ACCESSIBLE): KOHLER K-2084 20" X 18" WHITE VITREOUS CHINA FIXTURE WITH SINGLE HOLE FAUCET LEDGE AND OVERFLOW. FAUCET: AMTC HEALTHFLO AUTOMATIC FAUCET SYSTEM AEF-321HF 1.5 GPM SENSOF OPERATED POLISHE SURGICAL GRADE STAINLESS STEEL, PLUG-IN 6V AC POWER

TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # 151M CUP STRAINER WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON, PLUMBEREX PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. SINK: KOHLER RIVERBY K-8669-5UA3 33" UNDERMOUNT DOUBLE BOWL KITCHEN SINK, WHITE ENAMELED CAST IRON, 5 OVERSIZED DECK HOLES, 9" DEEP BOWLS FAUCET: KOHLER CRUE K-22973 SEMI-PROFESSIONAL KITCHEN FAUCET, THREE-FUNCTION SPRAYHEAD, VIBRANT BRUSHED MODERNE BRASS FINISH, 1.5 GPM FLOW RATE WITH BOOST TECHNOLOGY. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, BRUSHED BRASS STRAINERS WITH 1-1/2" 17 GAUGE

TAILPIECE, McGUIRE # 111C16G17 1-1/2" 17 GAUGE CONTINUOUS WASTE, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON. SAND/OIL INTERCEPTOR: GREENTURTLE PROCEPTOR OMC 1500, FIBERGLASS REINFORCED PLASTICS BODY, SINGLE BAFFLE DESIGN, 1500 GALLON CAPACITY AND UNION BODY WITH NICKEL PLATED UNION NUT, STAINLESS STEEL PRESSURE RATED FOR 1133 GALLONS OF OIL STORED, WITH (2) 24" GASKETED, AASHTO H-20

LOAD RATED COVER WITH EXTENSIONS. TRAPPED INLET AND OUTLET AND (2) 3" VENT CONNECTIONS. EXTEND CLEANOUTS TO GRADE. UNIT SHALL INCLUDE 30 YEAR WARRANTY AGAINST LEAKS AND STRUCTURAL FAILURE. SURGEON'S SCRUB SINK 2-STATION :STERIS "AMSCO FLEXMATIC" SCRUB STATION, 64" x 27-9/32" x 51-1/2" HIGH, WALL MOUNTED, TWO COMPARTMENTS WITH DIVIDER SCREEN, 16 GAUGE TYPE 302 STAINLESS STEEL CONSTRUCTION WITH PAINTED STEEL SKIRT ASSEMBLY, CHROME-PLATED GOOSENECK SPOUTS WITH ROSESPRAYS, SOAP DISPENSER SPOUTS, KNEE CONTROL PANELS FOR WATER AND SOAP ACTIVATION, THERMOSTATIC MIXING VALVES, CHROME-PLATED BRASS STRAINER WITH TAILPIECE, AND OPTIONAL TIMER. TRIM: (2) McGUIRE #8912-C-F CHROME PLATED TUBULAR BRASS ADJUSTABLE 1-1/2" P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON, (2) McGUIRE #LF2165CC LEAD FREE BRASS COMPRESSION WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, ALL PARTS CHROME-PLATED; AND SUITABLE CARRIER WITH STANCHIONS SECURED TO FLOOR.

ELECTRICAL REQUIREMENTS: 120 VOLT SINGLE PHASE POWER SUPPLY, 1.0 FULL LOAD SHOWER VALVE: SYMMONS #9601-X-PLR, PISTON TYPE PRESSURE BALANCING MIXING VALVE WITH BRASS STEM, MEETING ASSE 1016P, SINGLE BLADE LEVER HANDLE. SET ADJUSTABLE LIMIT STOP SCREW TO 110F, INTEGRAL SERVICE STOPS, 2.0 GPM "CLEAR-FLO" SHOWER HEAD WITH ARM AND FLANGE. SHOWER VALVE (ADA ACCESSIBLE): SYMMONS # 9605-X-PLR. PISTON TYPE PRESSURE BALANCING MIXING VALVE WITH BRASS STEM, MEETING ASSE 1016P, SINGLE BLADE LEVER HANDLE, SET ADJUSTABLE LIMIT STOP SCREW TO 110F, INTEGRAL SERVICE STOPS, DIVERTER VALVE, [1.5 GPM][2.0 GPM] "CLEAR-FLO" SHOWER HEAD WITH ARM AND FLANGE, [1.5 GPM][2.0 GPM] WALL / HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, AND 30" SLIDE BAR. TRAP PRIMER: PRECISION PLUMBING PRODUCTS CHROME PLATED #ULP-500LP

GAS APPLIANCE CONNECTOR: T & S BRASS # HG-4X-36 SERIES, THREE FOOT LONG BRAIDED STAINLESS STEEL HOSE WITH COATING APPROVED FOR FOOD SERVICE. CABLE. GAS APPLIANCE CONNECTOR KIT SHALL BE AGA DESIGN CERTIFIED FOR USE AS A GAS APPLIANCE CONNECTOR AND LINE SIZE AS INDICATED ON THE DRAWINGS. GARBAGE DISPOSER: IN-SINK-ERATOR "BADGER 5" RESIDENTIAL DISPOSER WITH 1/2 CUTTING ELEMENT, AND PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS.

MOUNTED, 1.55 GPM GLASS FILLER HANDLE ASSEMBLY. MOUNT AT RIGHT SIDE OF GREASE INTERCEPTOR: GREENTURTLE PROCEPTOR GMC 2000 UPC, FIBERGLASS

REINFORCED PLASTICS BODY, SINGLE BAFFLE DESIGN, 2000 GALLON CAPACITY AND RATED FOR 1.154 GALLONS OF GREASE STORED. WITH (2) 24" GASKETED. AASHTO H-20 LOAD RATED COVER WITH EXTENSIONS. TRAPPED INLET AND OUTLET AND (2) 3" VENT CONNECTIONS. EXTEND CLEANOUTS TO GRADE. UNIT SHALL INCLUDE 30 YEAR GAS SOLENOID VALVE: ASCO # 8214 UL LISTED AND FM APPROVED FOR NATURAL GAS SERVICE, ALUMINUM BODY WITH GENERAL PURPOSE ENCLOSURE, FNPT CONNECTIONS, BUNA "N" SEAL, DIAPHRAGM AND DISC, 120V SINGLE PHASE. NORMALLY CLOSED TYPE, MOLDED EPOXY SOLENOID COVER, CLASS "F" COIL FOR CONTINUOUS DUTY

HUB DRAIN: PROVIDE A P-TRAP BELOW FINISHED FLOOR AND STUB THE BELL END OF ICE MAKER BOX: GUY GRAY MODEL # BIM875, 20 GAUGE GALVANIZED STEEL BOX, 18 GAUGE STEEL FACEPLATE, BOTTOM INLET WATER SUPPLY WITH LEAD FREE 1/2" x 1/4" TRIM: LOOP 4 FEET OF 1/4" TYPE "K" SOFT COPPER TUBING AND PROVIDE EQUIPMENT

TRIM: LOOP 4 FEET OF 1/4" TYPE "K" SOFT COPPER TUBING AND PROVIDE EQUIPMENT JANITOR'S SINK: STERN-WILLIAMS # MTB-2424, 24" x 24" x 10" HIGH TERRAZZO BASIN FAUCET: ZURN "AQUASPEC" # Z843M4-XL-CS FAUCET WITH WALL BRACE, CHECK STOPS, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED

STAINLESS STEEL MOP HANGER. JANITOR'S SINK: STERN-WILLIAMS # SBC-1550, 36" x 36" x 12" HIGH, CORNER MODEL. TERRAZZO BASIN WITH ONE PIECE STAINLESS STEEL CAP AND INTEGRAL STAINLESS FAUCET: ZURN "AQUASPEC" # Z843M4-XL-CS FAUCET WITH WALL BRACE. CHECK STOPS, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24" NON-FREEZE WALL HYDRANT: PRIER PRODUCTS # C-634NBX1, SATIN NICKEL PLATED

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