GENERAL MECHANICAL SYMBOLS	PLUMBING AND PIPING SYMBOLS	PLUMBING GENERAL NOTES
Image: Construction of the construc	CHIRP CHILED WATER RETURN CHILED WATER RETURN CONDENSATE RAMAGE COMPR CONDENSATE RAMAGE CWR CONDENSATE RETURN HAVK HEATING WATER RETURN HAVK HEATING WATER RETURN OWN CONDENSATE RETURN CORR CONDENSATE RETURN CORR CONDENSATE RETURN CA CONPACE AS STIM STEAM CA CONPACE AS CONPACE AS SOLTA HOT WATER CA CONPACE AS STIM SOLA HOT WATER OWNER RECTURA	 UNLESS OTHERWISE NOTED, SLOPE PIRE AS POLLOWS, WASTE BRANCHES, 'UM PER FOOT, WEINY ALL SLOP WITH LOCAL CODES. ALL UNDER KONS SHALL BE PERFORMED WITH WITER CONTROL IN MIND. CONTAINENT OF WI IS NOCESSARY TO PREVENT WATER PROM DAMAGING AREAS ON FLOORS BELOW. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE, FELD VERITY EACH TIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES. ALL PIPING IN FLUMBING GHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS. NO PIPING TO RUN OVER BLECTRICL PARELS, VEDS OR MCCS. PROTECT FOURMENT WITH A DEP ZONE. IN FRONT OF PARELS, VEDS, AND ALCES. COORDINATE FINA BOOM, DOOR DAWN, DE ODG S INKL LOCATION ON ALL DELING TILES WHE WAYES ARE TO AND ON THE DEPRING PARELS, VEDS OR MCCS. PROTECT FOURMENT WITH A DEP ZONE. IN FRONT OF PARELS, VEDS, AND ALCES. COORDINATE TO AND VER BLECHTOLD PARELS, VEDS OR MCCS. PROTECT FOURMENT WITH A DEP ZONE. IN FRONT OF PARELS, VEDS, AND ALCESTRONG ON ALL DELING TILES WHE WAYES ARE COATED. CONTRACTOR TO PROTO DELIN CENTLY THE EACH LOCATION ON ALL DELING TILES WHE WAYES ARE LOCATED. CONTRACTOR TO PROTY CONNECTION SIDE OF ALL FIXTURES AND ADJUST ACCORDINGLY. IN FUGSI VAVES HANDLES ON WIDE SIDE OF ALL FIXTURES AND ADJUST ACCORDINGLY. IN FUSSI VAVES HANDLES ON WIDE SIDE OF ALL FIXTURES AND ADJUST ACCORDINGLY. IN FUSSI VAVES HANDLES ON WIDE SIDE OF ALL FIXTURES AND ADJUST ACCORDINGLY. IN HUMBER ARESETORS WHERE MONITED AGAIN FIXTURES AND ADJUST ACCORDINGLY. IN FUSSI VAVES HANDLES ON WATER LINES BELOW DUCTWORK. INSTALL ALZ AVES HANDLES ON WATER DRAW AND ADJUST ACCORDINGLY. IN HUMBER ARESETORS WHERE MONITED ADJUST ADJUST ADJUST ADJUST ADJUST AND ADJUST AD
PLUMBING FIXTURE TAGS TYPE (SEE SCHEDULE) WATER CLOSET -	DRAIN TAGS DRAIN SIZE FLOOR DRAIN FD-1 TYPE (SEE SCHEDULE) AD-6 Grain B FD-3 "P" - INDICATES PRIMER CONNECTION FLOOR SINK FS-4	

		PROJECT GENERAL NOTES
OOT; WASTE	1	THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
ALL SLOPING		REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
NT OF WATER		THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING
IG AND		CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE TENANT SPACE AND WITHIN CLOSE PROXIMITY TO THE TENANT SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF
CESS.	4.	EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING
T WITH A 42" COIL,		EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVERS AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES, AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS
ES WHERE		AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
(IMATE. IT IS UP G.	5.	WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
	6.	COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILINGS, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
INGLY. INSTALL	7.	THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
S AND WATER	8.	FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATION BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
EILING HEIGHT	9.	LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
UFACTURERS	10.	ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
AS	11.	COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S.
WITH	10	PROVIDE PANS IF REQUIRED UNDER PIPING.
WATER	12.	FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. REFER TO SPECIFICATION.
ION UNDER	13.	PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
LE LOCATIONS. PROVIDE		TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
L.		REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING. ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL
		ANOTHER SIZE IS SHOWN.
E NEW		FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
CORDING TO	18.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
ainage Piping	19.	MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
AND 100 FT FOR		INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
	21.	LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS TO AVOID INTERFERENCE IN THE FIELD.
	22.	THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
AND	23.	IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
	24.	DETAILS REFERENCE ALL SHEETS.
RVICE VALVES.	25.	INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.
AIR FROM RIGHT	26.	ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY WASTE, ROOF DRAIN, CAMPUS CHILLED OR HOT WATER, AND ANY OTHER UTILITY SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
	27.	LOCATE VALVING, ACCESSORIES, AND EQUIPMENT IN ACCESSIBLE LOCATIONS. WHERE LOCATED ABOVE HARD CEILING PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24" X 24". COORDINATE EXACT LOCATION AND STYLE WITH ARCHITECT. EQUIPMENT SHALL BE LOCATED IN THE CEILING CAVITY SO IT CAN BE SAFELY SERVICED FROM SOMEONE STAND ON A LADDER PLACED BELOW THE CEILING ACCESS.
	28.	WHERE VALVING, ACCESSORIES, OR EQUIPMENT IS LOCATED IN A WALL, PROVIDE AN APPROPRIATELY SIZED ACCESS DOOR. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
	29.	CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.

<u>* NOTE *</u> ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

 181 East 5600 South

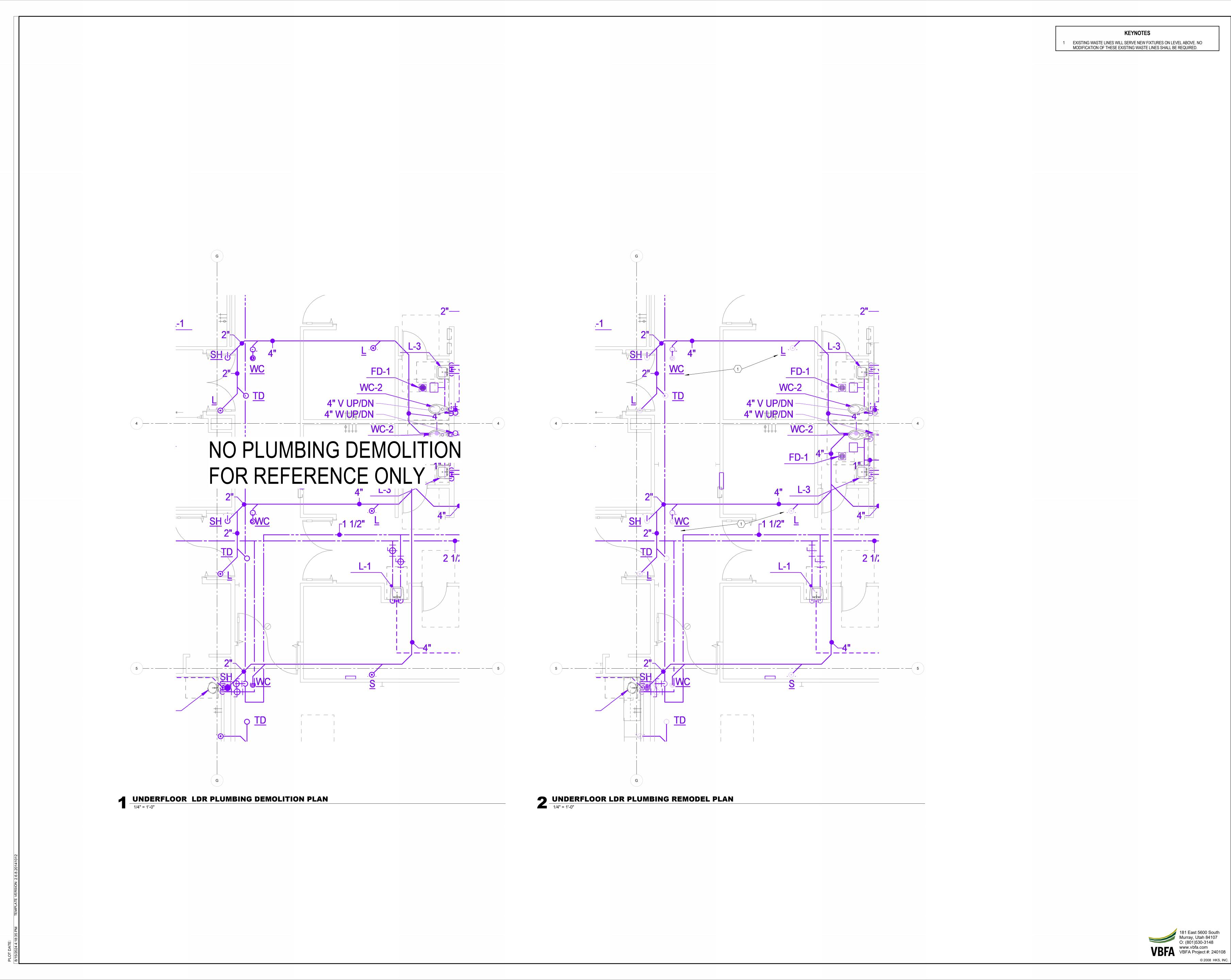
 Murray, Utah 84107

 O: (801)530-3148

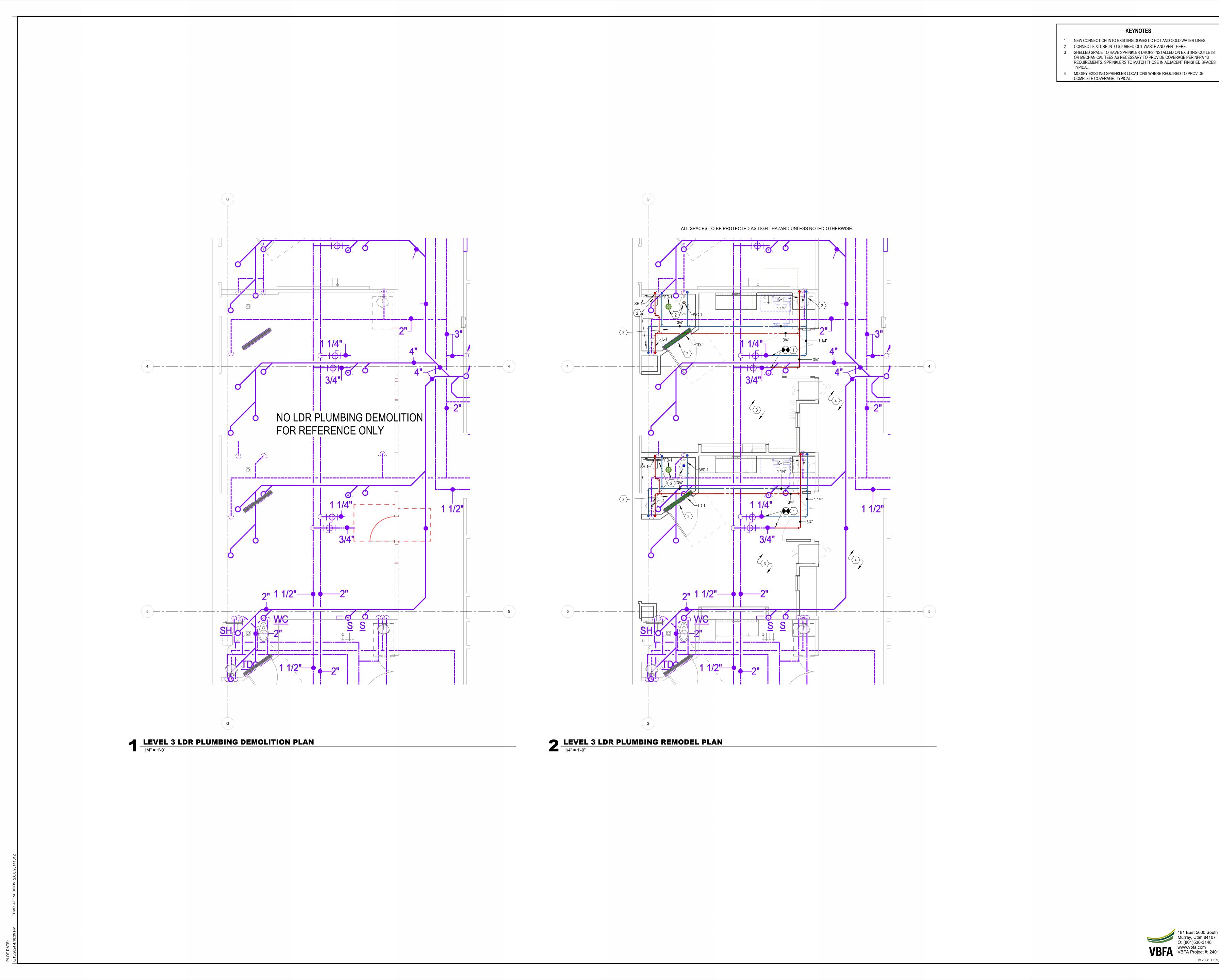
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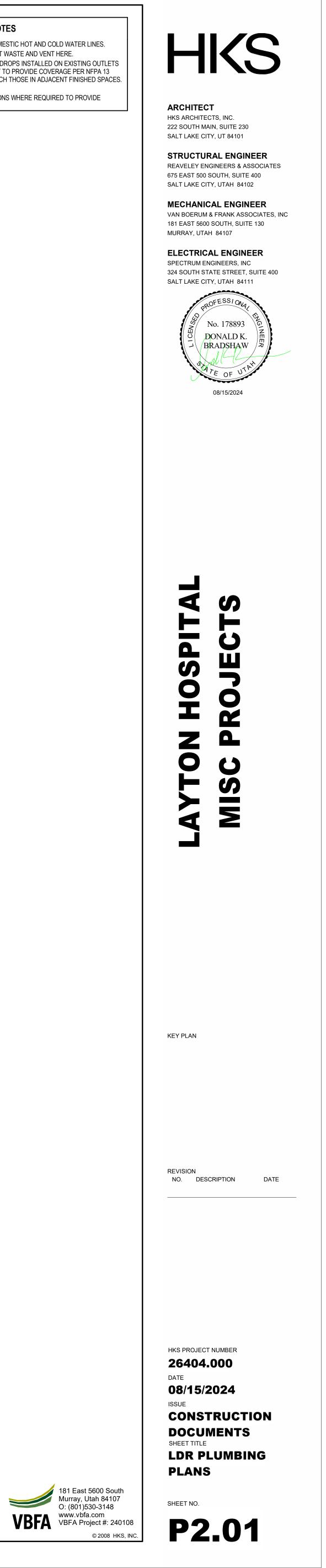
HKS ARCHITECT HKS ARCHITECTS, INC. 222 SOUTH MAIN, SUITE 230 SALT LAKE CITY, UT 84101 STRUCTURAL ENGINEER REAVELEY ENGINEERS & ASSOCIATES 675 EAST 500 SOUTH, SUITE 400 SALT LAKE CITY, UTAH 84102 MECHANICAL ENGINEER VAN BOERUM & FRANK ASSOCIATES, INC 181 EAST 5600 SOUTH, SUITE 130 MURRAY, UTAH 84107 ELECTRICAL ENGINEER SPECTRUM ENGINEERS, INC 324 SOUTH STATE STREET, SUITE 400 SALT LAKE CITY, UTAH 84111 No. 178893 DONALD K. BRADSHAW 08/15/2024 S D ш 0 $\boldsymbol{\boldsymbol{Z}}$ 0 C Σ KEY PLAN REVISION NO. DESCRIPTION DATE -----HKS PROJECT NUMBER 26404.000 DATE 08/15/2024 ISSUE CONSTRUCTION DOCUMENTS SHEET TITLE PLUMBING TITLE SHEET SHEET NO. **P000** © 2008 HKS, INC

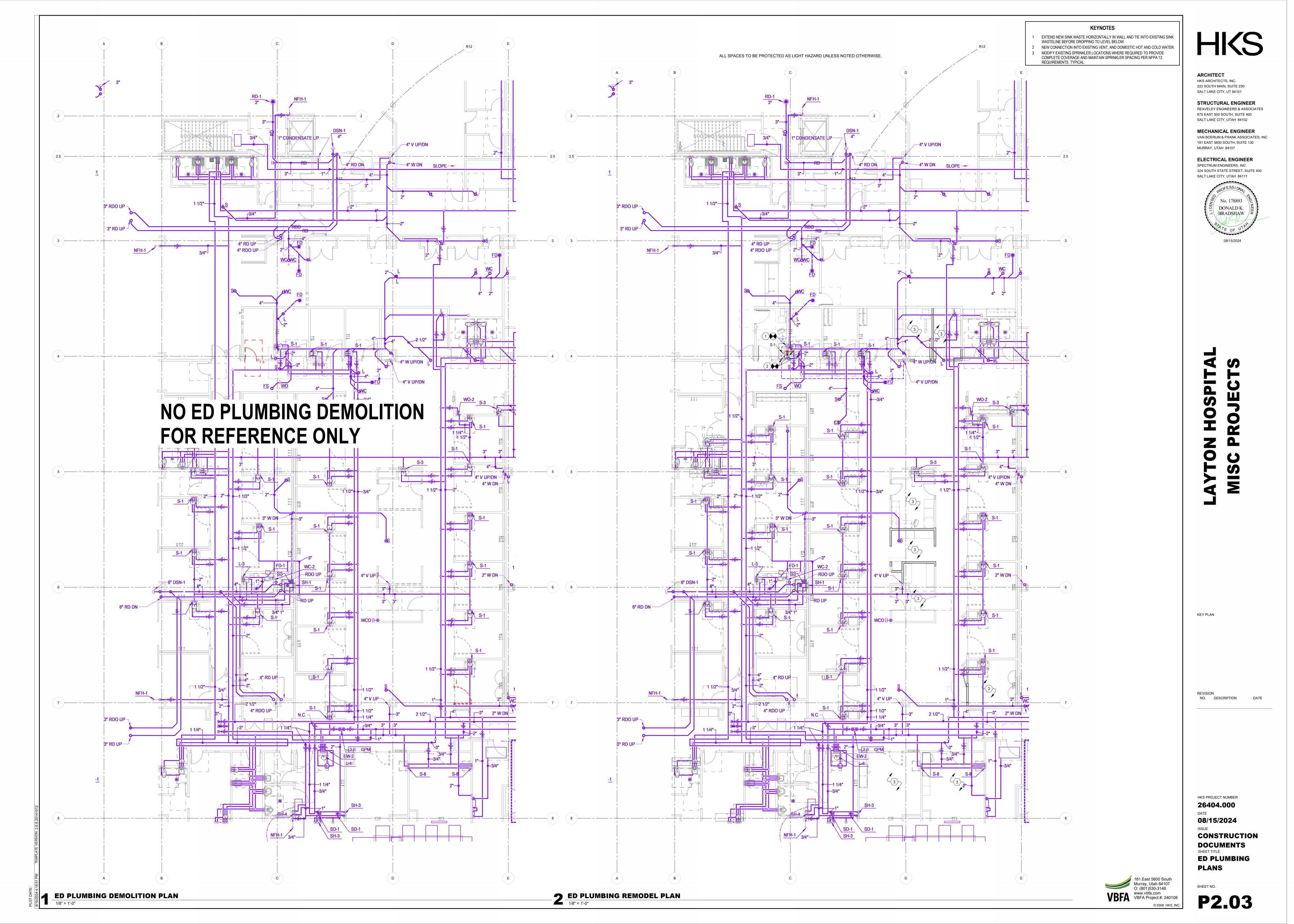


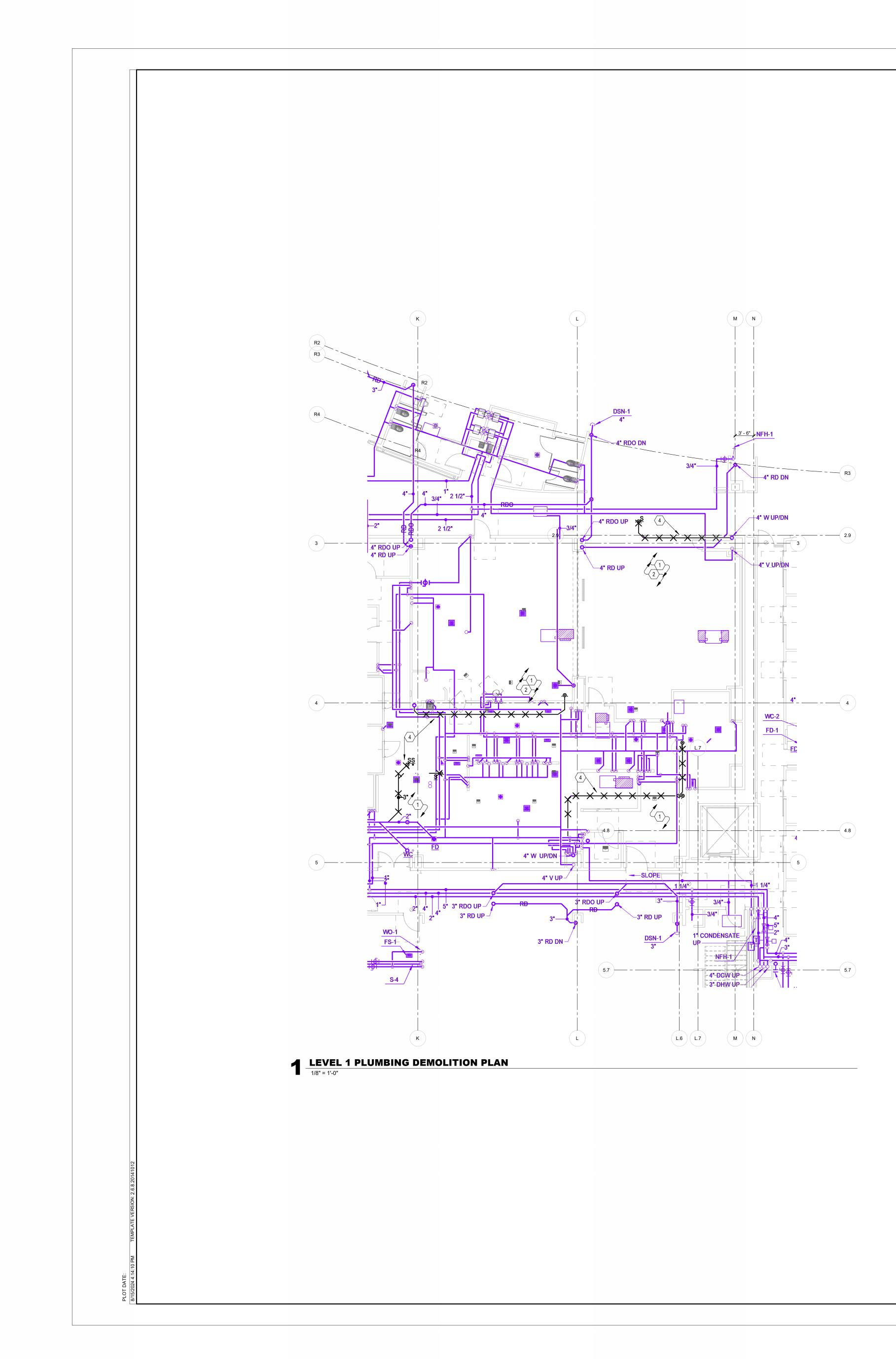
HKS ARCHITECT HKS ARCHITECTS, INC. 222 SOUTH MAIN, SUITE 230 SALT LAKE CITY, UT 84101 STRUCTURAL ENGINEER **REAVELEY ENGINEERS & ASSOCIATES** 675 EAST 500 SOUTH, SUITE 400 SALT LAKE CITY, UTAH 84102 MECHANICAL ENGINEER VAN BOERUM & FRANK ASSOCIATES, INC 181 EAST 5600 SOUTH, SUITE 130 MURRAY, UTAH 84107 ELECTRICAL ENGINEER SPECTRUM ENGINEERS, INC 324 SOUTH STATE STREET, SUITE 400 SALT LAKE CITY, UTAH 84111 No. 178893 DONALD K. BRADSHAW 08/15/2024 ш $\overline{\mathbf{N}}$ Σ KEY PLAN REVISION NO. DESCRIPTION HKS PROJECT NUMBER 26404.000 DATE 08/15/2024 ISSUE CONSTRUCTION DOCUMENTS SHEET TITLE UNDERFLOOR LDR PLUMBING PLANS SHEET NO. **P2.00**

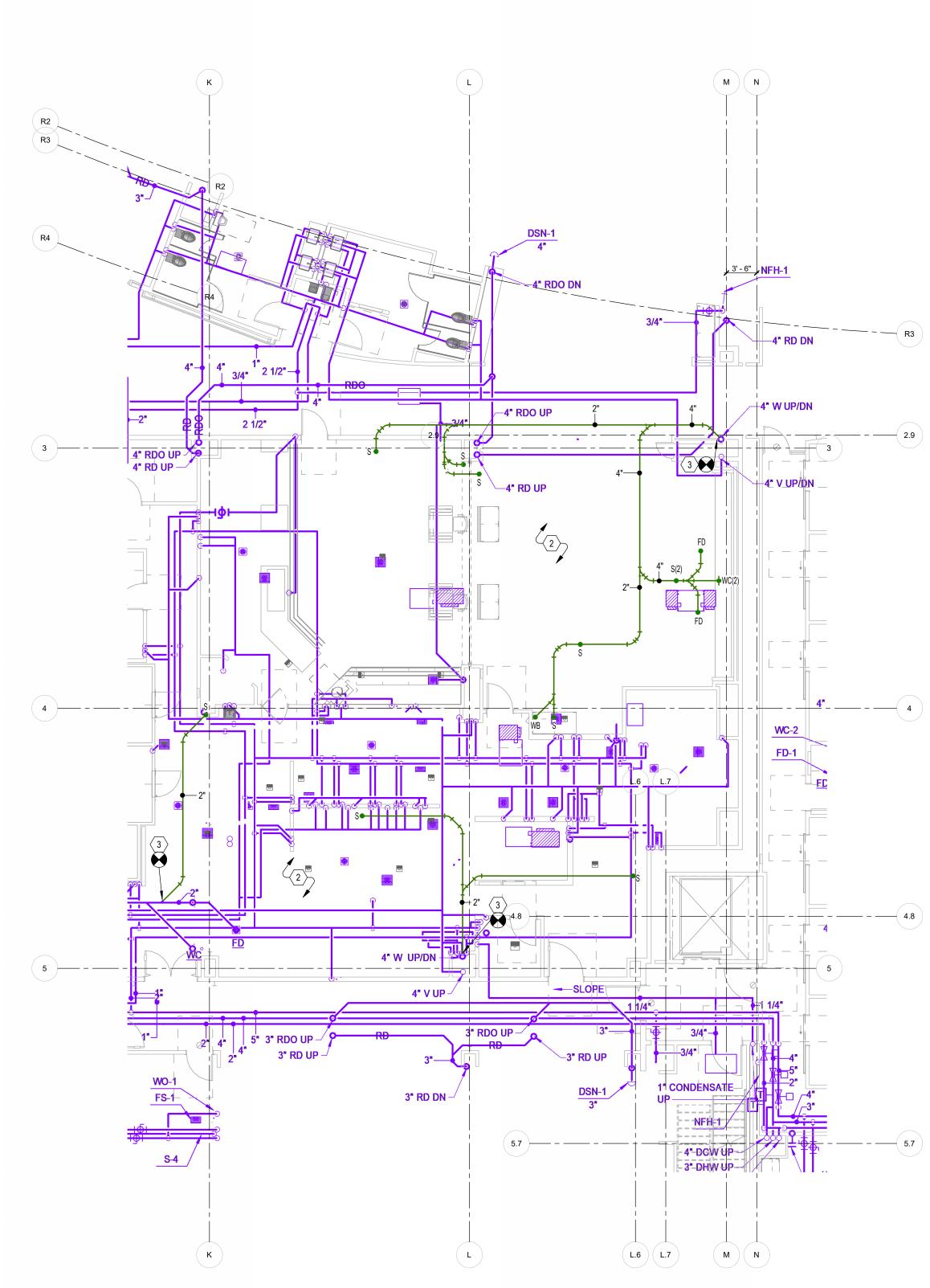














KEYNOTES

- EXISTING SHOWN LIGHT TO REMAIN. ITEMS SHOWN DARK AND CROSSED OUT TO BE DEMOLISHED. 2 PLUMBING SHOWN IS IN THE CEILING SPACE OF LEVEL 1.
- 3 NEW CONNECTION INTO EXISTING WASTE LINE HERE.4 DEMOLISH PIPING SHOWN CROSSED OUT.











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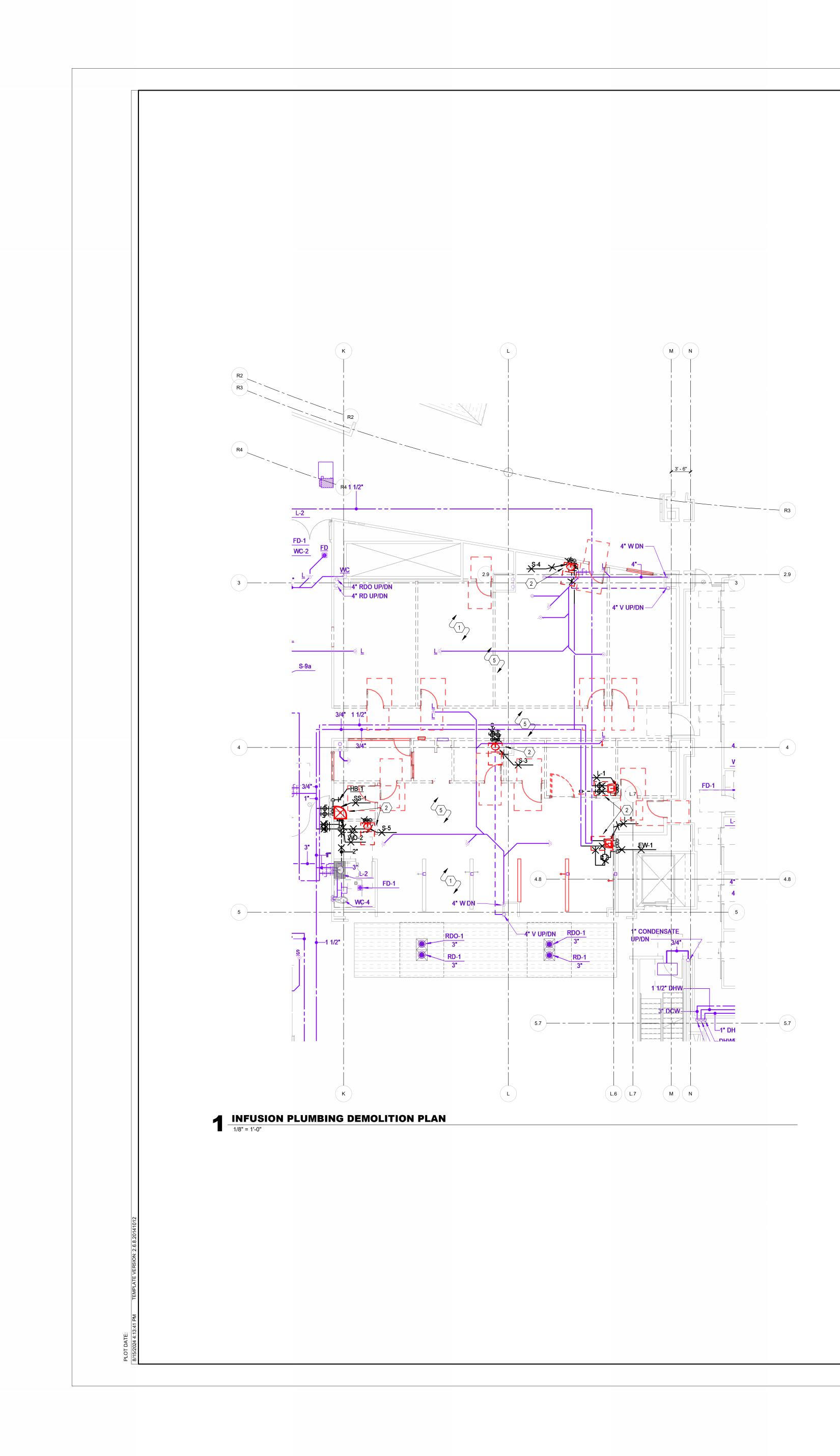
HKS PROJECT NUMBER

26404.000 DATE 08/15/2024

DOCUMENTS SHEET TITLE INFUSION

PLUMBING UNDERFLOOR Plans

P2.10

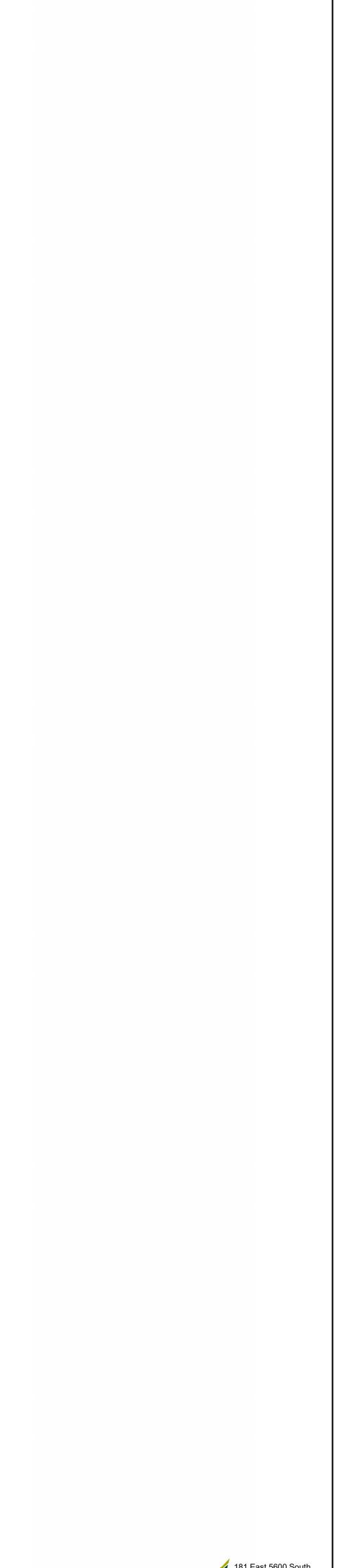


2 INFUSION PLUMBING REMODEL PLAN 1/8" = 1'-0"



KEYNOTES

- EXISTING SHOWN LIGHT TO REMAIN. ITEMS SHOWN DARK AND CROSSED OUT TO BE DEMOLISHED.
 EXISTING WATER, WASTE, AND VENT LINES SERVING FIXTURE TO BE DEMOLISHED BACK AS FAR AS POSSIBLE.
- NEW CONNECTION INTO EXISTING VENT LINE HERE.
 NEW CONNECTION INTO EXISTING DOMESTIC HOT AND COLD WATER LINES HERE.
 MODIFY SPRINKLER LAYOUT AS REQUIRED TO PROVIDE FULL COVERAGE FOR NEW LAYOUT. EXISTING SPRINKLERS MAY BE RELOCATED AS REQUIRED. TYPICAL.







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MISC PROJECT

REVISION NO. DESCRIPTION DATE

KEY PLAN

HKS PROJECT NUMBER 26404.000 DATE 08/15/2024

ISSUE CONSTRUCTION DOCUMENTS SHEET TITLE INFUSION

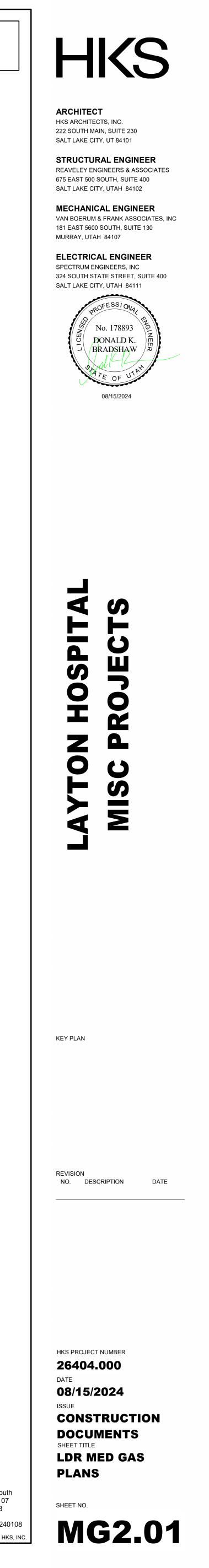
INFUSION PLUMBING PLANS

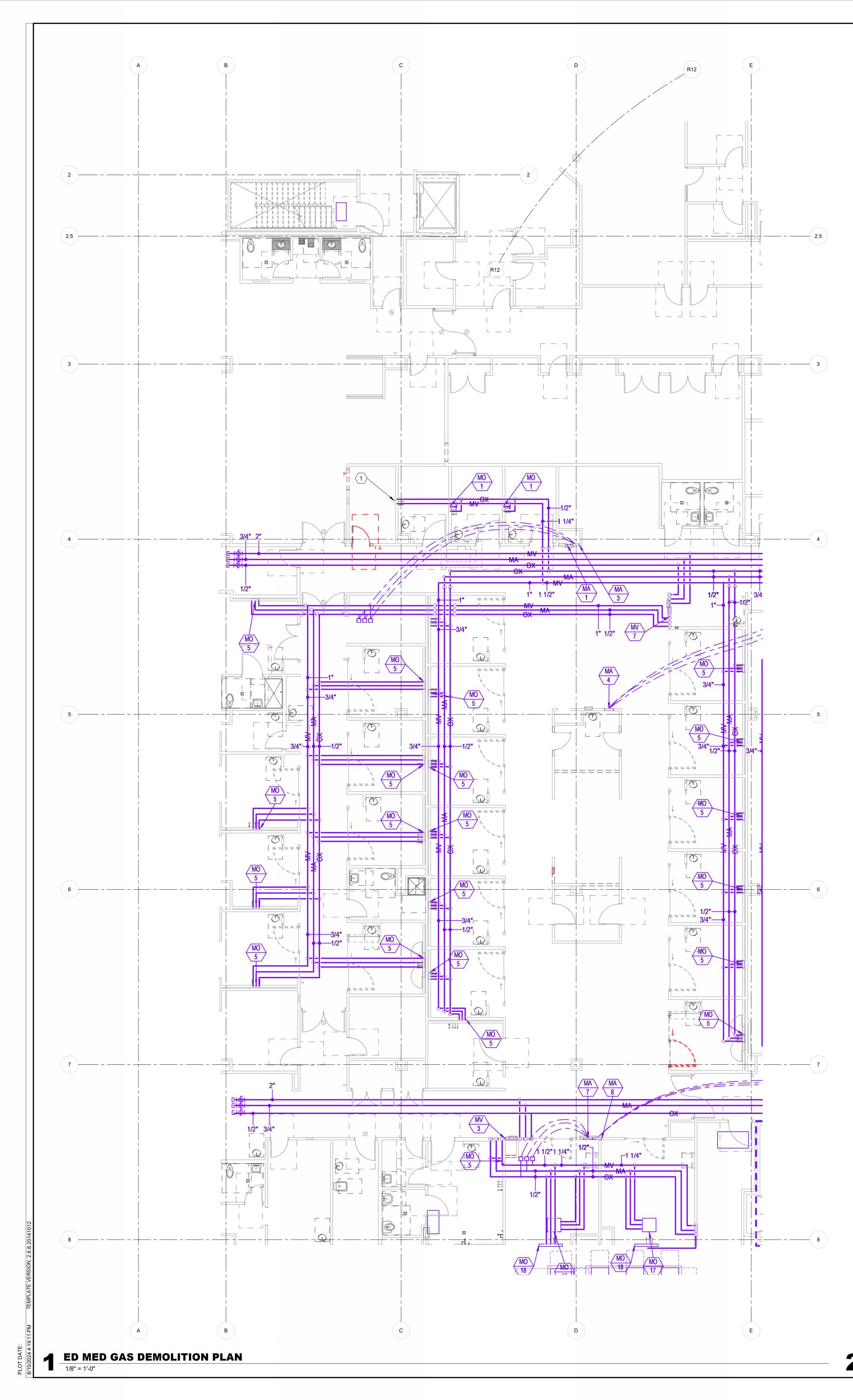
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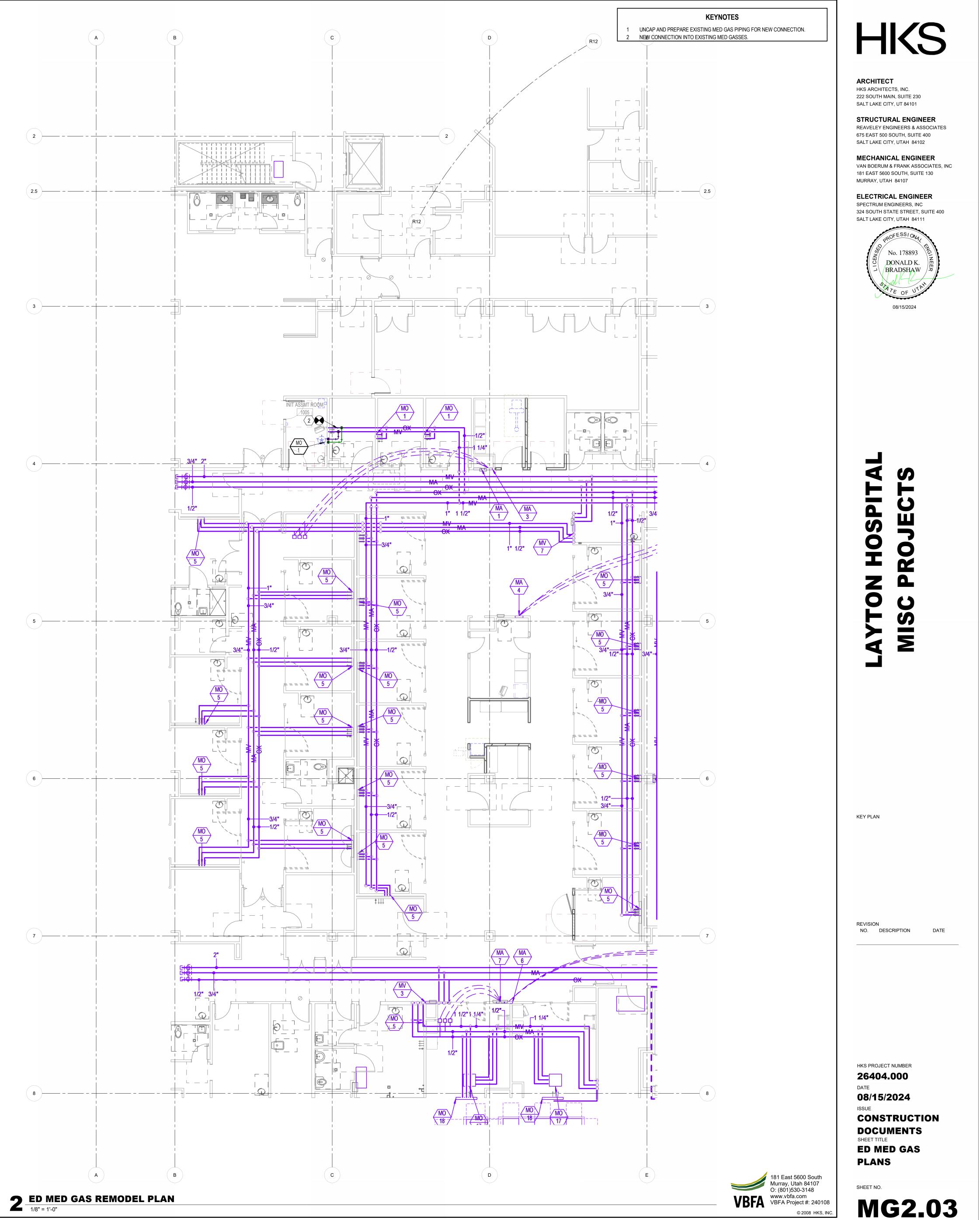


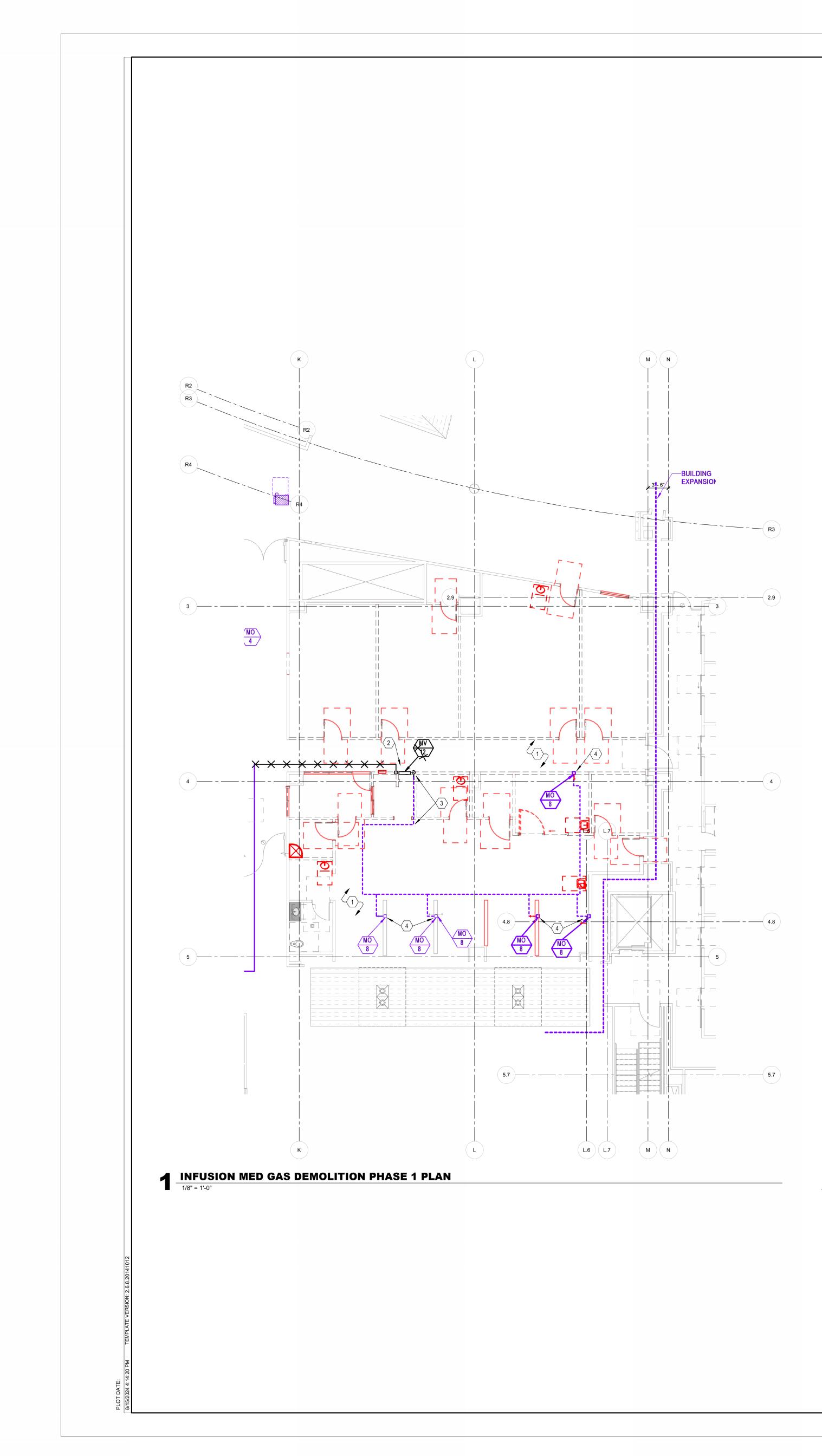


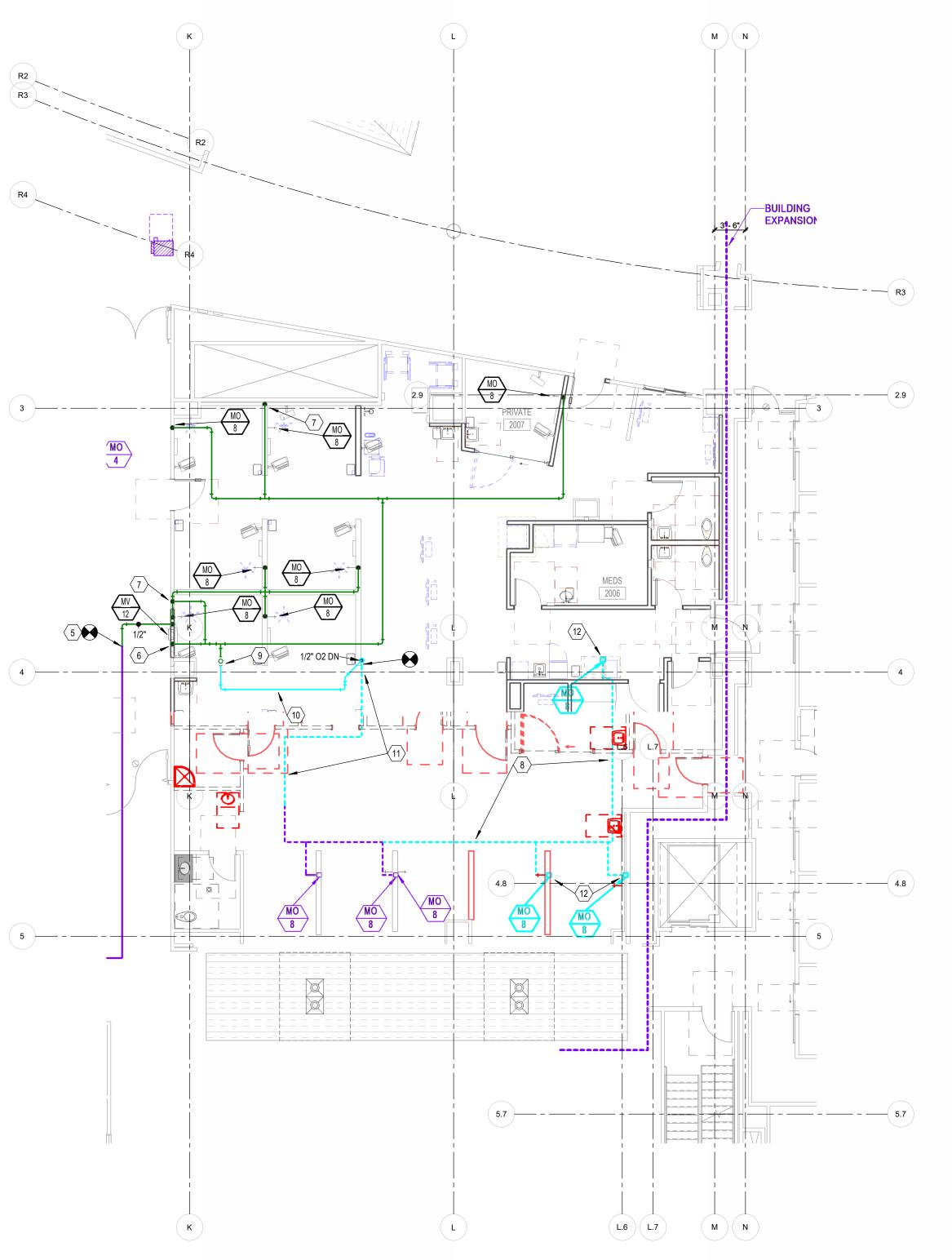














KEYNOTES 1 EXISTING SHOWN LIGHT TO REMAIN. ITEMS SHOWN DARK AND CROSSED OUT TO BE DEMOLISHED. 2 DEMOLISH EXISTING MED GAS VALVE BOX.

- PIPE DROP TO LEVEL BELOW AND PIPING IN CEILING SPACE OF LEVEL BELOW SHALL REMAIN CONNECTED TO REMAINING OUTLETS FOR SYSTEM TO FUNCTION DURING PHASE 1 CONSTRUCTION. 4 EXISTING MED GAS OUTLETS TO REMAIN DURING PHASE 1 CONSTRUCTION.
- 5 NEW CONNECTION INTO EXISTING OXYGEN LINE HERE. 6 ALL PIPING DOWNSTREAM OF VALVE BOX SHALL BE 1/2" DIA.
- 7 DROP DOWN IN FULL HEIGHT WALL AND RUN HORIZONTALLY IN HALF HEIGHT WALLS TO MED GAS OUTLETS.
- 8 DEMOLISH THIS PORTION OF PIPING IN CEILING SPACE OF LEVEL BELOW AT THE COMMENCEMENT OF PHASE 2.
- 9 PROVIDE LOCKABLE MEDICAL GAS SHUT-OFF VALVE WITH FRANGIBLE LOCK ABOVE CEILING. TAG WITH GAS SERVED AND LOCK IN OPEN POSITION.
- 10 TEMPORARY OX PIPING TO BE INSTALLED IN PHASE 1 AND DEMOLISHED IN PHASE 2.
- 11 DEMOLISH THIS PORTION OF EXISTING PIPING IN CEILING SPACE OF LEVEL BELOW DURING PHASE 2 CONSTRUCTION. 12 DEMOLISH EXISTING MED GAS OUTLET AT COMMENCEMENT OF PHASE 2 CONSTRUCTION.







REVISION

ISSUE



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 181 East 5600 South Murray, Utah 84107 O: (801)530-3148 www.vbfa.com VBFA Project #: 240108

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ELECTRICAL ENGINEER SPECTRUM ENGINEERS, INC 324 SOUTH STATE STREET, SUITE 400 SALT LAKE CITY, UTAH 84111

> No. 178893 DONALD K. BRADSHAW 08/15/2024

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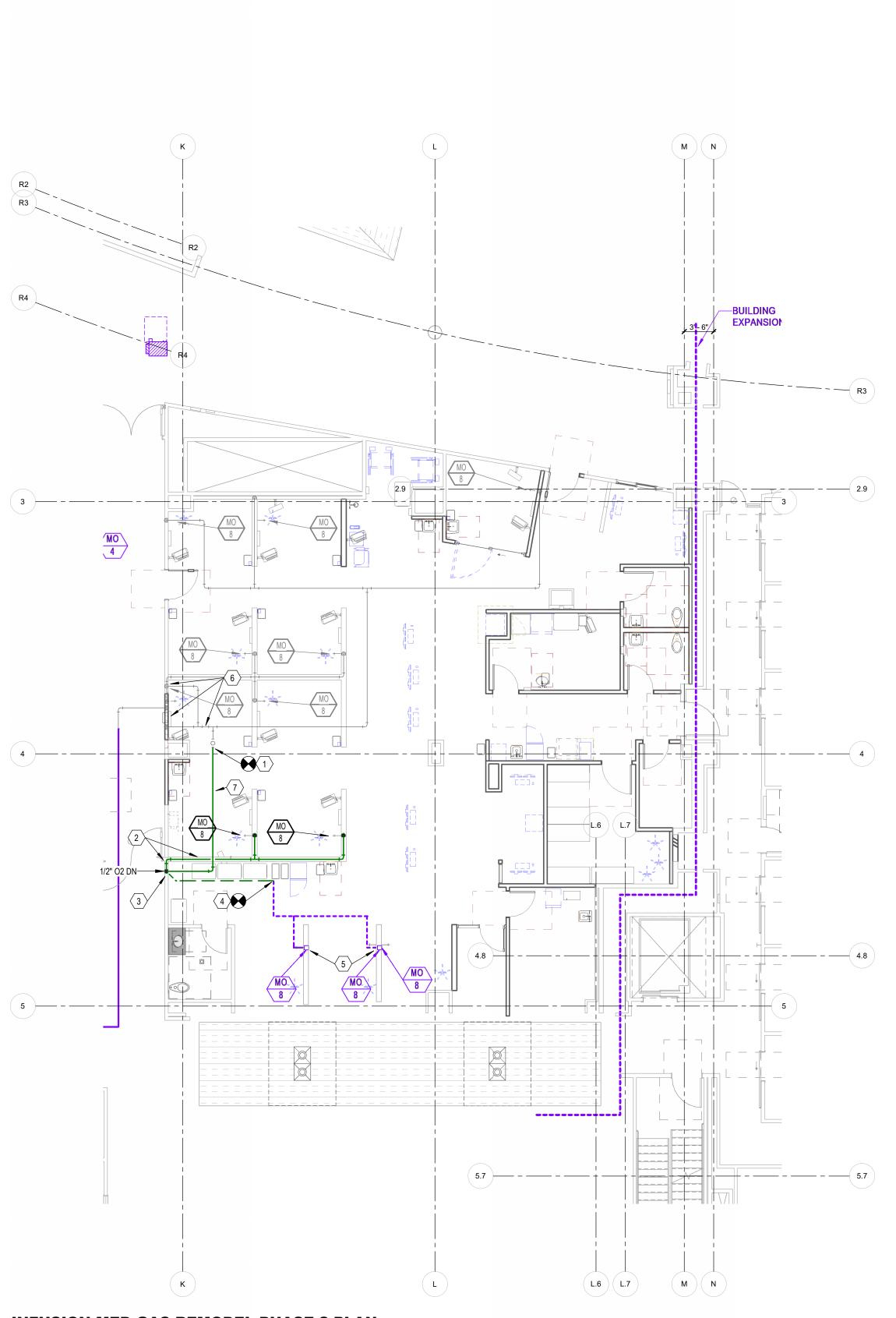
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^{date} 08/15/2024

CONSTRUCTION DOCUMENTS SHEET TITLE INFUSION MED GAS PLANS

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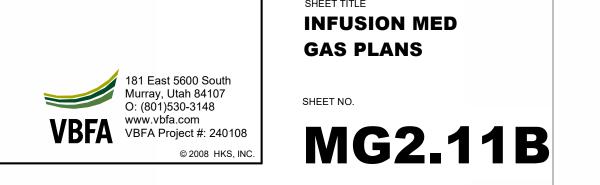
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2 INFUSION MED GAS REMODEL PHASE 2 PLAN 1/8" = 1'-0"

KEYNOTES

- CONNECT INTO REMAINING PIPING INSTALLED IN PHASE 1 AND EXTEND AS SHOWN.
 DROP DOWN IN FULL HEIGHT WALL AND RUN HORIZONTALLY IN HALF HEIGHT WALLS TO MED GAS OUTLETS.
- IN DROP, EXTEND PIPING TO LEVEL BELOW TO CONNECT TO EXISTING PIPING IN CEILING SPACE OF LEVEL BELOW.
- 4 NEW CONNECTION TO EXISTING MED GAS PIPING IN CEILING SPACE OF LEVEL BELOW.
- 5 EXISTING MED GAS OUTLETS TO REMAIN. 6 GRAYED OUT PIPING AND EQUIPMENT IN THIS AREA WAS INSTALLED DURING PHASE 1 CONSTRUCTION.
- 7 ALL NEW PIPING DOWNSTREAM OF VALVE SHALL BE 1/2".





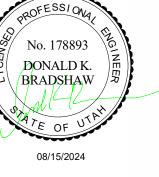




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DOCUMENTS SHEET TITLE INFUSION MED GAS PLANS

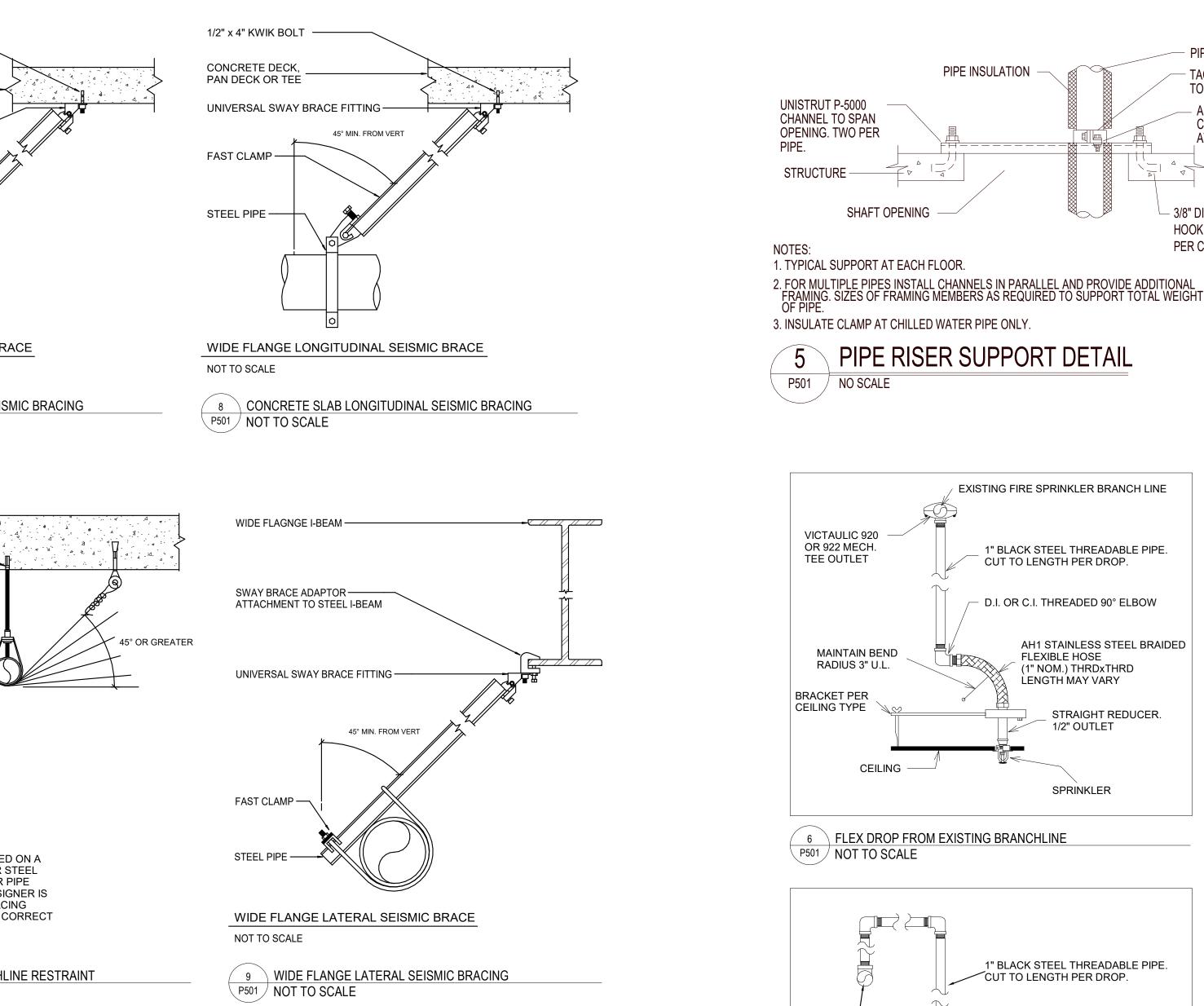


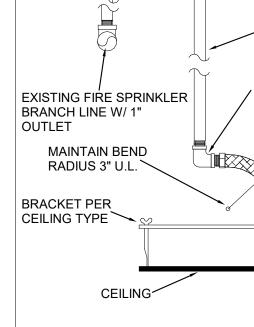


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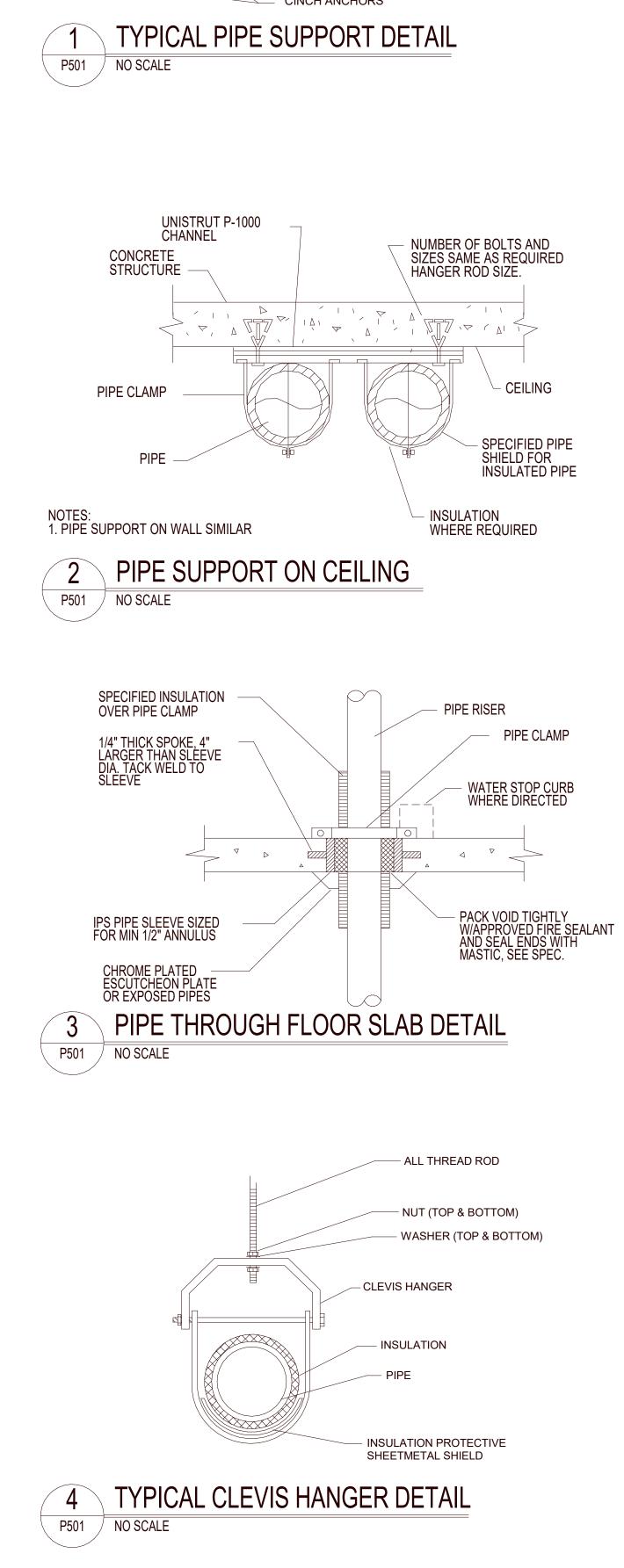
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	RETAINER STRAP	PAN DECK OR TEE		
		PIPE RING		
			0	45° MIN. FROM VERT
Image: Market Name Market Nam	PIPE SIZEAT-ROD4 INCHES OR LESS3/8	PIPE SIZEAT-ROD4 INCHES OR LESS3/8		
USE FOR MAINS AND BRANCHLINES USE FO	Per NFPA 13, pipe does not require Lateral Sway Bracing, if rods are less than 6 inches long measured between the top of the pipe and the	Per NFPA 13, pipe does not require Lateral Swa Bracing, if rods are less than 6 inches long measured between the top of the pipe and the	Ŋ	GE LATERAL SEISMI
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ALL THREAD ROD PIPE RING SPRINKLER PIPE SWIVEL ATTACHMENT CONCRETE BRANCHLINE RESTRAINT NOTTO SCALE	HANGER ROD LENGTH GREATER THAN 6 INCHES		1/4" x 2-1/8" TIE WIRE	
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CONCRETE BRANCHLINE RESTRAINT NOTTO SCALE INCH 40 INCH 40 INCH 40 1.104 INCH 41				
IPPE size mod. ST Octors 0.5 Gp COEFFICIENT FOR STEEL 0.5 Gp COEFFICIENT FOR STEEL 110CH 39 PPE. IF COEFFICIENT TOR STEEL 110.CH 38 1112 HOCH 41 0.5 Gp COEFFICIENT TOR STEEL 110.CH 39 112 HOCH 41 0.5 Gp COEFFICIENT TOR STEEL 110.CH 39 112 HOCH 41 0.5 Gp COEFFICIENT TOR STEEL 111.NCH 39 112 HOCH 41 0.5 Gp COEFFICIENT TOR STEEL 111.NCH 39 112 HOCH 45 0.5 CP COEFFICIENT TOR STEEL 111.NCH 39 112 HOCH 45 0.5 CP COEFFICIENT TOR STEEL 111.NCH 39 112 HOCH 45 0.5 CP COEFFICIENT TOR STEEL 111.21.NCH 41 11.01.NCH 110 CH EXAMPTICE SWOVEL ATTACHMENT - CONCRETE BRANCHLINE RESTRAINT 111.NCH 1111.NCH 111.NCH 111.NCH <td>CONCRETE BRANCHLINE RESTRAIN</td> <td>ΙT</td> <td>CONCRETE BRANCHLINE</td> <td></td>	CONCRETE BRANCHLINE RESTRAIN	ΙT	CONCRETE BRANCHLINE	
1144 NCH 39 TYPE IS DIFFERENT, DESIGNER 1172 INCH 41 Sto D ETERMINE THE SPACING BASED ON NFPA 13 AND CORRECT THE SPACING TABLE. 1141 NCH 41 2 INCH 45 CORRECT THE SPACING TABLE. 1141 NCH 41 DO DETERMINE THE SPACING TABLE. 14 SWIVEL ATTACHMENT - CONCRETE BRANCHLINE RESTRAINT 11 11/2 INCH 41 DO DETERMINE THE SPACING TABLE. 14 SWIVEL ATTACHMENT - CONCRETE BRANCHLINE RESTRAINT 11 THE SPACING TABLE. 11 DO DETERMINE THE SPACING TABLE. 110 NOT TO SCALE 11 THE WIRE WEDGE ANCHOR - CONCRETE BRANCHLINE RESTRAINT 11 THE SPACING TABLE. WIDE FLAGNGE HBEAM	PIPE SIZE MAX. SPACING MAXIMUM SI 0.5 Cp COEF	FICIENT FOR STEEL	· · · · · · · · · · · · · · · · · · ·	MAXIMUM SPACING 0.5 Cp COEFFICIENT
11 SWIVEL ATTACHMENT - CONCRETE BRANCHLINE RESTRAINT 11 11 11 TE WIRE WEDGE ANCHOR - CONCRETE BRANCHLINE RESTRAINT 11 11 11 11 11 11 11 11 12 11 13 11 14 11 15 11 16 WIDE FLANGE LONGITUDINAL SEISMIC BRACING	1 1/4 INCH39TYPE IS DIFF1 1/2 INCH41BASED ON N CORRECT T	FERENT, DESIGNER RMINE THE SPACING NFPA 13 AND	1 1/4 INCH 39 1 1/2 INCH 41	PIPE. IF COEFFICIEN TYPE IS DIFFERENT, TO DETERMINE THE BASED ON NFPA 13 A THE SPACING TABLE
WIDE FLAGNGE I BEAM SWAY BRACE ADAPTOR ATTACHMENT TO STEEL I BEAM UNIVERSAL SWAY BRACE FITTING STEEL PIPE STEEL PIPE WIDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE 1 WIDE FLANGE LONGITUDINAL SEISMIC BRACING	14 SWIVEL ATTACHMENT - CONCRETE B	BRANCHLINE RESTRAINT	11 TIE WIRE WEDGE ANCH	OR - CONCRETE BRA
SWAY BRACE ADAPTOR ATTACHMENT TO STEEL I-BEAM UNVERSAL SWAY BRACE FITTING G 'MN FROM VET FAST CLAMP FAST CLAMP FIEL PIPE UNDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE			P501 NOT TO SCALE	
UNIVERSAL SWAY BRACE FITTING STEEL PIPE WIDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE 15 WIDE FLANGE LONGITUDINAL SEISMIC BRACING	SWAY BRACE ADAPTOR			
FAST CLAMP FAST CLAMP STEEL PIPE UDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE 15	ATTACHMENT TO STEEL I-BEAM			
FAST CLAMP STEEL PIPE UDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE 15 WIDE FLANGE LONGITUDINAL SEISMIC BRACING	UNIVERSAL SWAY BRACE FITTING			
STEEL PIPE WIDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE 15 WIDE FLANGE LONGITUDINAL SEISMIC BRACING				
WIDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE 15 WIDE FLANGE LONGITUDINAL SEISMIC BRACING				
WIDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE	STEEL PIPE			
WIDE FLANGE LONGITUDINAL SEISMIC BRACE NOT TO SCALE				
15 WIDE FLANGE LONGITUDINAL SEISMIC BRACING	<u> </u>	RACE		
		IC BRACING		

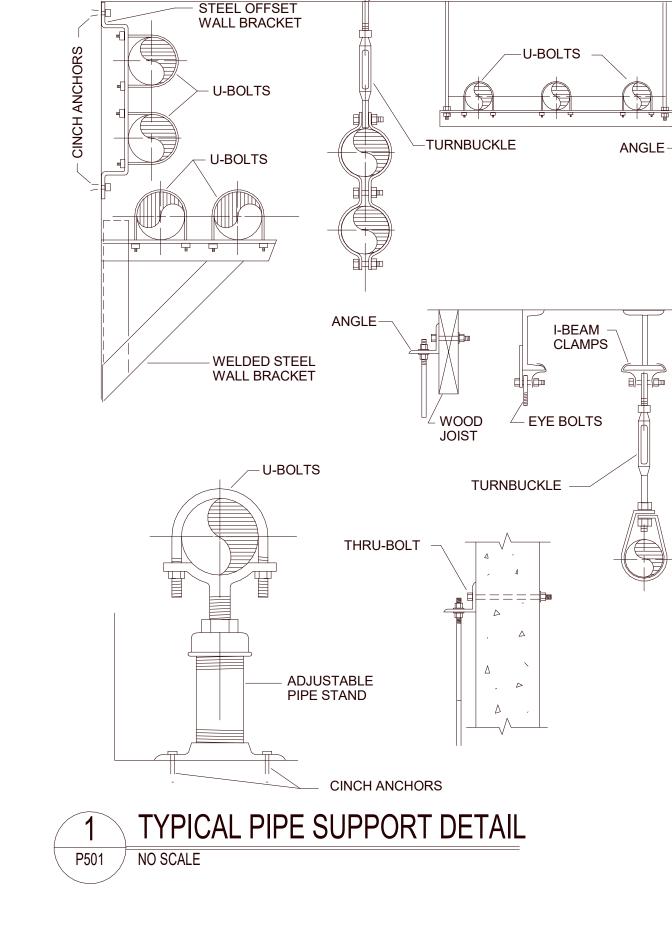




7 FLEX DROP FROM EXISTING 1-INCH OUTLET P501 NOT TO SCALE



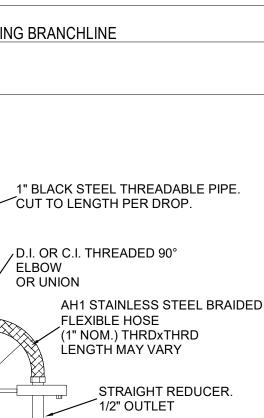




INSERTS

`SPRINKLER

AH1 STAINLESS STEEL BRAIDED FLEXIBLE HOSE (1" NOM.) THRDxTHRD LENGTH MAY VARY STRAIGHT REDUCER. 1/2" OUTLET





1" BLACK STEEL THREADABLE PIPE.

— D.I. OR C.I. THREADED 90° ELBOW

FLEXIBLE HOSE

(1" NOM.) THRDxTHRD

1/2" OUTLET

LENGTH MAY VARY

AH1 STAINLESS STEEL BRAIDED

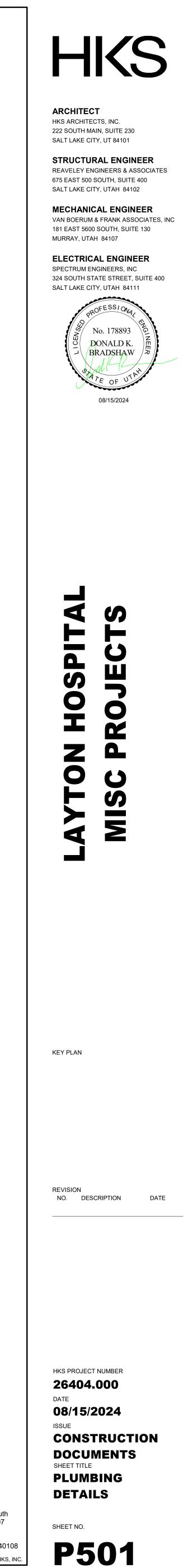
STRAIGHT REDUCER.

CUT TO LENGTH PER DROP.

TO PIPE ANGLE CLIP. BOLT TO CHANNEL AND CLAMP AT EACH SIDE 3/8" DIA. CAST IN HOOK BOLT. TWO PER CHANNEL

PIPE

- TACK WELD CLAMP



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						PLU	MBING FIXTURE SCHEDULE
ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES	SPECIFICATION
FD-1	FLOOR DRAIN			2	1 1/2	GENERAL USE FLOOR DRAIN	FLOOR DRAIN: SMITH FIGURE 2005Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6-INCH ROUND NICKEL BRONZ ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE DEEP SEAL TRAP AND TRAP GUARD TYPE TRAP SEAL DEVICE.
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	BASIN INTEGRAL TO COUNTERTOP, GOOSENECK FAUCET WITH WRISTBLADES	LAVATORY (BASIN INTEGRAL TO COUNTERTOP): CHICAGO786-GN8FCXKABCP FACUET, WITH WRIST BLADE HANDLES, GN8FC RIGID/SWING GOOSENECK SPOUT WITH 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS.; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHIT
L-2	LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG, GOOSENECK FAUCET WITH WRISTBLADES	LAVATORY: KOHLER K2030, GREENWICH, 20" X 18", VITREOUS CHINA, WITH FRONT OVERFLOW, 8" CENTERS. CHICAGO 786-GN8FCXKABCP FACUET, WITH WRIST BLADE HANDLES, GN8 RIGID/SWING GOOSENECK SPOUT WITH 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN BASYS EFT-470-A CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTE PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
S-1	SINK	1/2	1/2	2	1 1/2	BASIN INTEGRAL TO COUNTERTOP, GOOSENECK FAUCET WITH WRISTBLADES	SINK (BASIN INTEGRAL TO COUNTERTOP): CHICAGO 786-GN8FCXKABCP FACUET, WITH WRIST BLADE HANDLES, GN8FC RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
S-2	HAND WASH SINK	1/2	1/2	2	1 1/2	WALL HUNG, GOOSENECK FAUCET WITH WRISTBLADES	LAVATORY: KOHLER K2030, GREENWICH, 20" X 18", VITREOUS CHINA, WITH FRONT OVERFLOW, 8" CENTERS. CHICAGO 786-GN8FCXKABCP FACUET, WITH WRIST BLADE HANDLES, GN8 RIGID/SWING GOOSENECK SPOUT WITH 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN BASYS EFT-470-A CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTE PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
S-3	NURSE STATION SINK	1/2	1/2	2	1 1/2	COUNTER MOUNTED, STAINLESS STEEL, GOOSENECK FAUCET WITH WRISTBLADES	SINK: ELKAY LRAD 1918 19" X 18" O.D. X 6-1/2" DEEP BOWL, COUNTER MOUNT SINGLE COMPARTMENT 18 GA. STAINLESS STEEL SINK, 8" CENTERS DRILLING, PROVIDE SINK WITH CENTER-REAR DRAIN LOCATION. PROVIDE CHICAGO 786-GN8FCABCP FAUCET, NO. 317 4" WRIST BLADES, GN8 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.5 GPM FC LAMINAR FLOW CONTROL IN SPOUT AND PLAIN END SPOUT RING PROVIDE FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
S-4	BREAK RM SINK	1/2	1/2	2	1 1/2	COUNTER MOUNTED, STAINLESS STEEL, SINGLE COMPARTMENT,	SINK (STAINLESS STEEL, COUNTER MOUNTED, SINGLE COMPARTMENT): JUST SLADA1921A553-J. TYPE 304 STAINLESS STEEL SINK, 14" X 18 X 5-1/2" DEEP BASIN, SELF RIMMING, 8" CENTERS DRILLING WITH J-35 CUP STRAINER. SYMMONS S-23-BH-1.5 KITCHEN FAUCET WITH 1.5 GP AERATOR. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS, CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
S-5	CUP SINK	1/2	1/2	1 1/2	1 1/2	SPECIMEN DISPOSAL SINK	SINK: ELKAY CUPR6 6.5" DIA. I.D. TYPE 316 16 GA.STAINLESS STEEL, ROUND, COUNTER MOUNT SINGLE BOWL WITH STEEL NIPPLE WITH CROSS BAR DRAIN . CHICAGO 929-LESH SINGLE HOLE HOT AND COLD WATER FAUCET WITH GN2FCJKABCP 5" PLAIN END GOOSENECK SPOUT WITH 1.5 GPM FLOW CONTROL IN BASE OF THE SPOUT AND 317 4" WRIST BLADE HANDLES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
S-6	CONFERENCE ROOM SINK	1/2	1/2	2	1 1/2	INTEGRAL SINK, GOOSENECK FAUCET WITH WRISTBLADES	SINK (BASIN INTEGRAL TO COUNTER TOP): PROVIDE CHICAGO 786-GN8FCABCP FAUCET, NO. 317 4" WRIST BLADES, GN8 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.5 GPM FC LAMINAR FLOW CONTROL IN SPOUT AND PLAIN END SPOUT RING. PROVIDE FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
SH-1	SHOWER	1/2	1/2	2	2	ADA, FIXED AND HAND HELD SHOWER HEADS	SHOWER (ADA COMPLIANT): SYMMONS 1-1170VT-T600B-36-V-X-1.5 VISU-TEMP EXTRA HEAVY DUTY SHOWER SYSTEM WITH PRESSURE BALANCING MIXING VALVE, CLEAR-VUE THERMOMETER, LEVER HANDLE, ADJUSTBABLE STOP SCREW, INTEGRAL SERVICE STOPS, 1.5 GPM SHOWER HEAD WITH ARM AND FLANGE, LEVER DIVERTER WITH INTEGRAL VOLUME CONTROL, 1.5 GPM WALL/HAND SHOWER WITH 6' FLEXIBLE METAL HOSE, INLINE BREAKER, WALL CONNECTION AND FLANGE AND SYMMONS 36" T600B ADA GRAB AND SLIDE BAR FOR HAND SHOWER MOUNTING.
TD-1	TRENCH DRAIN			2	2	PATIENT TOILET ROOM TRENCH DRAIN	TRENCH DRAIN: ZURN MODEL #ZS880-60-ZS-WG TYPE 304 FABRICATED STAINLESS STEEL LINEAR SHOWER DRAIN. COMPLETE WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2 IN. NO-HUB CENTER OUTLET, ADJUSTABLE SECURED LEVELING FRAME WITH BUILT-IN TILE EDGE, AND SECURED, LIGHT DUTY, SLOTTED HEEL-PROOF GRATE, DRAIN IS DESIGNED FOR INSTALLATION IN A MINIMUM 2" CONDRETE PAD AND CAN BE ADJUSTED TO ACCOMMODATE 1/4 AND 3/8 FINISHED TILE THICKNESS.
WB-1	WATER BOX	3/4	3/4	2	1 1/2		WATER OUTLET BOX: WATER-TITE 82112 WASHING MACHINE OUTLET BOX WITH DRAIN, QUARTER TURN BALL VALVE FOR USE WITH ICE MACHINE. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH AND INSTALL OUTLET BOX DRAIN FLUSH WITH COUNTERTOP. PROVIDE WITH PVC TRAP. WATER LINE CONNECTION TO THE ICEBOX TO BE COPPER PIPING. BOX DIMENSIONS: 7-7/8" X 5-5/ I.D.; FRAME SIZE: 10-7/8 X 8-3/8"
WC-1	WATER CLOSET	1		4	2	FLOOR MOUNTED, MANUAL FLUSH VALVE, ADA, BED PAN WASHER	WATER CLOSET: KOHLER K-4368-L HIGHCLIFF VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL WITH BEDPAN LUGS, 1-1/2" TOP SPU ADA TOILET WITH K-4670-C LUSTRA OPEN-FRONT SEAT. SLOAN MODEL BPW-1150-1.6 LOW CONSUMPTION FLUSH VALVE WITH PULL DOWN BED PAN WASHER AND WES-212 DUAL FLUSH HANDLE KIT, 1-1/2" OFF SET TUBE; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

SYMBOL	ROOM TYPE
MO-1	O2,MV OUTLET
MO-5	O2, MA, MV
MO-6	INFANT RESUS/LDRP
MO-8	O2
MO-20	OR EQUIP BOOM
MO-21	OR ANEST BOOM
UNLESS	NOTED OTHERWISE, AI
OUTLETS	S IN "MEDICAL EQUIPME
1. PIPE	DROP SIZES ARE FOR C
2. WALL	MOUNTED OUTLETS

MEDICAL GAS OUTLETS SCHEDULE

			#	OF OUTLE	TS			PIPE DROP SIZE TO OUTLET(S)							
OM TYPE	OX	MA	MV	N	N20	CO2	WAGD	OX	MA	MV	N	N20	CO2	WAGD	REMARKS
IV OUTLET	1		1					1/2"		3/4"					1,2
, MA, MV	1	1	1					1/2"	1/2"	3/4"					1,2
RESUS/LDRP	3	3	3					1/2"	1/2"	1"					1,2
O2	1							1/2"							1,2
QUIP BOOM		1	2	1		1			1/2"	1"	1/2"		1/2"		1,3
NEST BOOM	3	2	2		1		1	1/2"	1/2"	1"		1/2"		3/4"	1,3
THERWISE, AL	L OUTLETS	ARE CHEM	ETRON-STY	LE QUICK-	CONNECTS	- SEE ARCH	HITECTURAL	DRAWINGS	FOR EXAC	T LOCATION	S AND ELE	VATIONS		•	

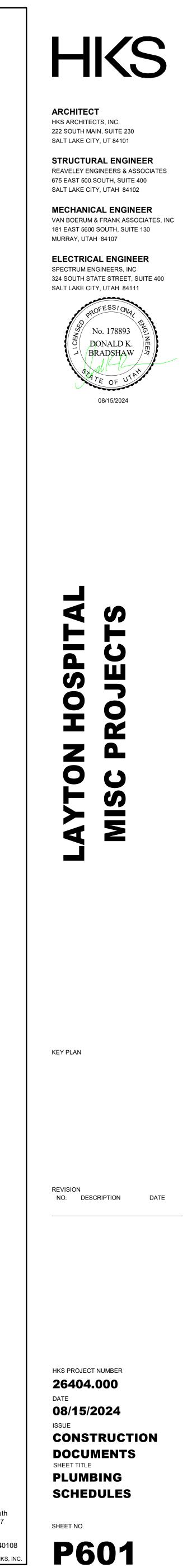
DICAL EQUIPMENT" ARE SUPPLIED WITH THE PIECE OF EQUIPMENT

IZES ARE FOR ONE SET OF OUTLETS

3. OUTLETS IN OWNER-PROVIDED, CEILING-MOUNTED BOOM.

MEDICAL GAS VALVE SCHEDULE												
	-		1		PIPE	SIZE		1	1	_		
SYMBOL	AREA SERVED	OX	MA	M∨	N	IA	N20	CO2	WAGD	REMARKS		
MV-12	BLOOD DRAW	1/2"	-	-	-	-	-	-	-	1		





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