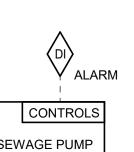


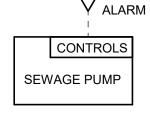
APPLICABLE CODES						
	COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS IDING, BUT NOT LIMITED TO, THE FOLLOWING:					
BUILDING CODE:	IBC 20** EDITION UBC 20**					
FIRE CODE:	IFC 20** EDITION -OR- NFPA: 1 20** EDITION					
PLUMBING CODE:	ILLINOIS PLUMBING CODE (CURRENT)					
MECHANICAL CODE:	2015 INTERNATIONAL MECHANCIAL CODE (EXCEPT SECTION 510)					
ELECTRICAL CODE:	NFPA 70 (NEC) 20** EDITION					

CONTACT PERSONS:						
DESCRIPTION:	PERSON:					
PROJECT MANAGER	MIKE BELLINO					
MECHANICAL	MIKE BELLINO					
ELECTRICAL	TOM BALA					

		PLUMBING ABBREVIATION KEY			
PLUMBING SYMBOL LIST  NOT ALL SYMBOLS MAY APPLY.		AB	BBR:		
SYMBOL:	DESCRIPTION:	, , , , , , , , , , , , , , , , , , ,	AD	ACCESS DOOR	
		A	AFF	ABOVE FINISHED FLOOR	
——CA——	COMPRESSED AIR	В	BFP	BACKFLOW PREVENTER	
——CW——	COLD WATER - POTABLE	в	BLR	BOILER	
D	DRAIN		СВ	CATCH BASIN	
——DT——	DRAIN TILE		CI	CAST IRON	
——HW——	HOT WATER - POTABLE		CO	CLEANOUT	
——HWC——	HOT WATER CIRCULATING - POTABLE		DI	DUCTILE IRON	
——PD——	PUMPED DISCHARGE		E	EXISTING	
——SAN——	SANITARY DRAINAGE	F	-co	FLOOR CLEANOUT	
ST(100)	STORM DRAINAGE (FLOW RATE)		FD	FLOOR DRAIN	
V	VENT	F	FM	FLOW METER	
<del></del>	PIPE CONTINUATION		FS	FLOOR SINK	
<del></del>	PIPE CAP		НВ	HOSE BIBB	
<del></del>	PIPE DOWN		I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)	
<del></del> o	PIPE UP OR UP/DOWN		МВ	MOP BASIN	
<del></del> 0	PIPE SERVING FIXTURE ON FLOOR ABOVE		MH	MANHOLE	
FD	(EXAMPLE: FD = FLOOR DRAIN) PITCH PIPE IN DIRECTION		MV	MIXING VALVE	
			NIC	NOT IN CONTRACT	
	DIRECTION OF FLOW IN PIPE		PNL	PANEL	
<u>.</u>	ROUTE TO DRAIN				
———	DIELECTRIC CONNECTION		RD	ROOF DRAIN	
———	UNION/FLANGE		CCR	SHORT CIRCUIT CURRENT RATING	
<b>──</b>	SHUTOFF VALVE NORMALLY OPEN		SK	SINK	
<b></b>	SHUTOFF VALVE NORMALLY CLOSED		SS	SERVICE SINK	
	CHECK VALVE		TD	TRENCH DRAIN	
<del></del>	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB		TYP	TYPICAL	
	PRESSURE REDUCING VALVE (LIQUID/GAS)	V	VTR	VENT THROUGH ROOF	
	,		VCO	WALL CLEANOUT	
	PUMP		WH	WATER METER	
<u> </u>	METER		WM LIB	WATER METER UTILITY BOX	
			UB		
			JON	UNLESS OTHERWISE NOTED	

PIPE INSU	JLATION SCHEDULE	(PLUMBING)						
	SPECIFICATIONS FOR TYPE DESCRIPTION	IS AND JACKETING REQUIREMENTS. FACTURED COUPLINGS (REFER TO PIPE HANGER AI	ND SUPPORTS SPE	CIFICATIONS) O	R TYPE C, D,	OR E INSULAT	ION. SEE SF	PEC. FOR MORE DETAILS.
SYMBOL PIPE SYSTEM		INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE				UBE SIZE	NOTES
STWIBOL	. PIPE STSTEW INSULATION TIPE	INSULATION TIPE	< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	NOTES
22 PLUMBING - STO	ORM		·					
ST STORM D	DRAINAGE	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	APPLY INSULATION ONLY TO HORIZONTAL PIPES AND DRAIN BODIES INSIDE THE BUILDING.

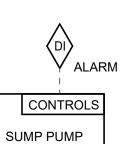




CONTROLS MANUFACTURER AND CONTACT: JOHNSON CONTROLS. JIM PERISIN. 708-418-2268

<u> ALARMS, INTERLOCKS & SAFETIES:</u> FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FOLLOWING OCCUR: HIGH WATER CONDITION





YARD CLEANOUT

CONTROLS MANUFACTURER AND CONTACT:

FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FOLLOWING OCCUR: HIGH WATER CONDITION



JOHNSON CONTROLS. JIM PERISIN. 708-418-2268

### **MECHANICAL RENOVATION NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE

FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD 4. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED

WITH THEIR WORK. 5. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL

SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 6. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT

7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.

8. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. PROVIDE TEMPORARY SUMP PUMPS DURING SWITCHOVER TIME TO PROTECT THE SUB VAULT. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

### PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR

FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT. 2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE

BASIS OF DESIGN. 3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.

4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874 5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY

ALL ELEVATIONS BEFORE BEGINNING WORK. 6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.

7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES. 8. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR

ADDITIONAL DEMOLITION INFORMATION. 9. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL

## **MECHANICAL GENERAL NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.

ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING

WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER

2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM

5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR

EXPENSE TO OTHERS. 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF

7. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, AND CEILINGS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND

8. SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE. 9. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL,

PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.

10. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS,

PIPING, DUCTWORK, ETC. 12. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 13. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS. 14. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE

THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC. 15. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO

# PLUMBING SLOPE REQUIREMENTS:

INTERIOR: SANITARY WASTE: **SANITARY WASTE** STORM (GRAVITY): SANITARY VENT:

≤2-1/2"ø=1/4" PER FOOT >2-1/2"ø=1/8" PER FOOT 1/8" PER FOOT NO SPECIFIC PITCH, PITCH TO FIXTURES

PLUMBING SHEET INDEX PLUMBING COVERSHEET UNDERFLOOR SUB-VAULT D DEMOLITION PLAN - PLUMBING SUB-VAULT D DEMOLITION PLAN - PLUMBING UNDERFLOOR SUB-VAULT D PLAN - PLUMBING SUB-VAULT D PLAN - PLUMBING ROOF PLAN - PLUMBING PLUMBING ELEVATIONS PLUMBING DETAILS

AG NAME	DESCRIPTION	MANUFACTURER AND MODEL
	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:	ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)
	UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP	
SEP-1	SEWAGE PUMP - SIMPLEX SUBMERSIBLE, SINGLE-STAGE, CENTRIFUGAL, END-SUCTION PUMP, STAINLESS STEEL FASTENERS, GUARDS AND HANDLES, UL LISTED.	PUMP - ZOELLER (280 SERIES), BARNES (2SE), HYDROMATIC (SKHSGOULDS (WS_BHF), MYERS (MW), WEINMAN (WE)
	CASING - CAST IRON, INTEGRAL SUPPORT FEET, MINIMUM 2" VERTICAL DISCHARGE.	CONTROLS - SAME AS PUMP MANUFACTURER
	IMPELLER - CAST IRON STATICALLY AND DYNAMICALLY BALANCED, SEMIOPEN NONCLOG DESIGN, KEYED AND SECURED TO SHAFT, PASSES 2" SOLIDS MINIMUM.  SHAFT - STAINLESS STEEL WITH FACTORY SEALED, GREASE-LUBRICATED SLEEVE OR BALL BEARINGS, CARBON AND CERAMIC SEAL	BASIN - AK INDUSTRIES, FIBER BASIN INC., SAME AS PUMP MANUFACTURER
	AND CERAMIC SEAL. MOTOR - 3450 RPM, OIL OR AIR-FILLED, HERMETICALLY SEALED WITH AUTO THERMAL OVERLOAD PROTECTION, THREE CONDUCTOR WATERPROOF POWER CABLE OF SUFFICIENT LENGTH.	
	GUIDE RAILS - THE MANUFACTURER SHALL PROVIDE A GUIDE RAIL SYSTEM.	
	CAPACITY: 40 GPM, 30 FEET OF HEAD.	
	ELECTRICAL REQUIREMENTS - 1 HP, 208 VOLTS, 1 PHASE	
	CONTROLS - WALL MOUNTED NEMA 1 ENCLOSURE, SIMPLEX (3) FLOAT. DRY CONTACTS FOR HIGH WATER ALARM UL LISTED. FLOATS SHALL BE MERCURY-FREE.	
	BASIN - HEAVY DUTY FIBERGLASS CONSTRUCTION, 24" DIAMETER x 60" DEEP, ANCHOR FLANGE, PIPE INLET AS SHOWN ON DRAWING, CAST IRON OR STEEL GASKETED SOLID COVER WITH OPENINGS FOR PUMP ACCESS, 2" DISCHARGE PIPE FLANGE, 2" VENT PIPE FLANGE, CONTROL AND POWER CORDS, INSPECTION PORT, STAINLESS STEEL LIFTING CABLE SECURED TO PUMP DISCHARGE PIPE OUTSIDE OF BASIN.	
	SUMP PUMP - DUPLEX SUBMERSIBLE, SINGLE-STAGE, CENTRIFUGAL, END-SUCTION PUMPS, STAINLESS STEEL FASTENERS, GUARDS AND HANDLES, UL LISTED.	PUMP - ZOELLER (MODEL J4294), WEIL (2443), BARNES (EH), HYDROMATIC (SPD), GOULDS (WE)
	CASING: CAST IRON, INTEGRAL SUPPORT FEET, MINIMUM 2" VERTICAL DISCHARGE. IMPELLER: CAST IRON STATICALLY AND DYNAMICALLY BALANCED, SEMIOPEN NONCLOG DESIGN, KEYED AND SECURED TO SHAFT, PASSES 1/2" SOLIDS MINIMUM. SHAFT: STAINLESS STEEL WITH FACTORY SEALED, GREASE-LUBRICATED SLEEVE OR BALL BEARINGS, CARBON AND CERAMIC SEAL. MOTOR: 3450 RPM, OIL OR AIR-FILLED, HERMETICALLY SEALED WITH AUTO THERMAL OVERLOAD PROTECTION, THREE CONDUCTOR WATERPROOF POWER CABLE OF SUFFICIENT LENGTH.	CONTROLS - SAME AS PUMP MANUFACTURER
	CAPACITY EACH PUMP: 100 GPM, 30 FEET OF HEAD.	
	GUIDE RAILS - THE MANUFACTURER SHALL PROVIDE A GUIDE RAIL SYSTEM.	
	ELECTRICAL REQUIREMENTS - 1.5 HP, 208 VOLTS, 3 PHASE	
	CONTROLS - WALL MOUNTED NEMA 1 ENCLOSURE, DUPLEX (4) FLOAT WITH AUTOMATIC ALTERNATOR TO LEAD-LAG PUMPS AND ALSO ALLOW BOTH PUMPS TO RUN DURING HIGH LOAD, TEST-OFF-AUTO AND DISCONNECTING MEANS FOR EACH PUMP, DRY CONTACTS FOR HIGH WATER ALARM, UL LISTED. FLOATS SHALL BE MERCURY-FREE.	

SUITE 550

NAPERVILLE, IL 60563 P: 630.527.2320 JOLIET JUNIOR COLLEGE

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**KEY PLAN** 

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PROJECT #23001895.00

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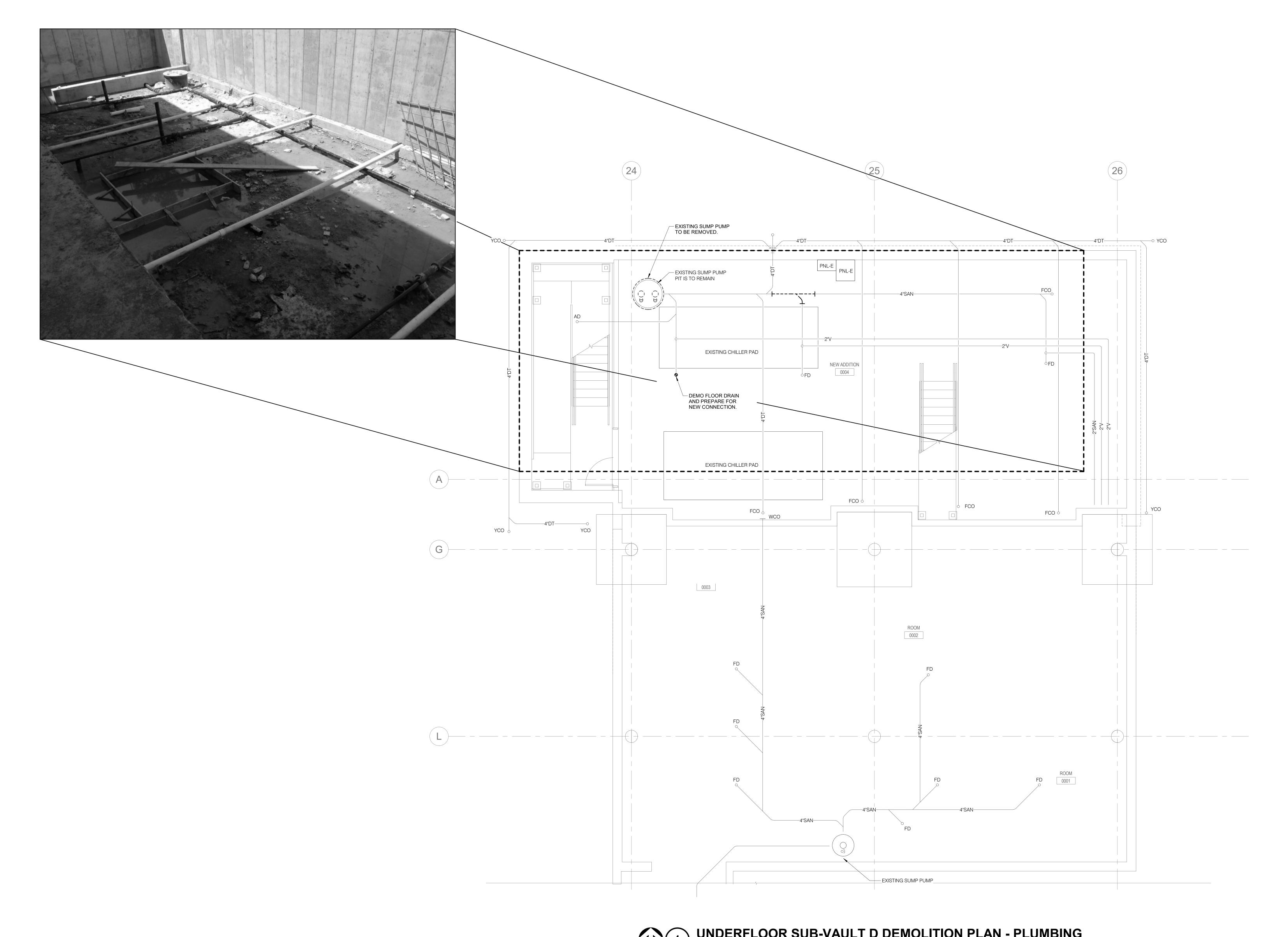
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SUB-VAULT D -PLUMBING REVISIONS 1215 Houbolt Rd

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PLUMBING COVERSHEET

ISSUED FOR BID/CONSTRUCTION



UNDERFLOOR SUB-VAULT D DEMOLITION PLAN - PLUMBING

1/4" = 1'-0"



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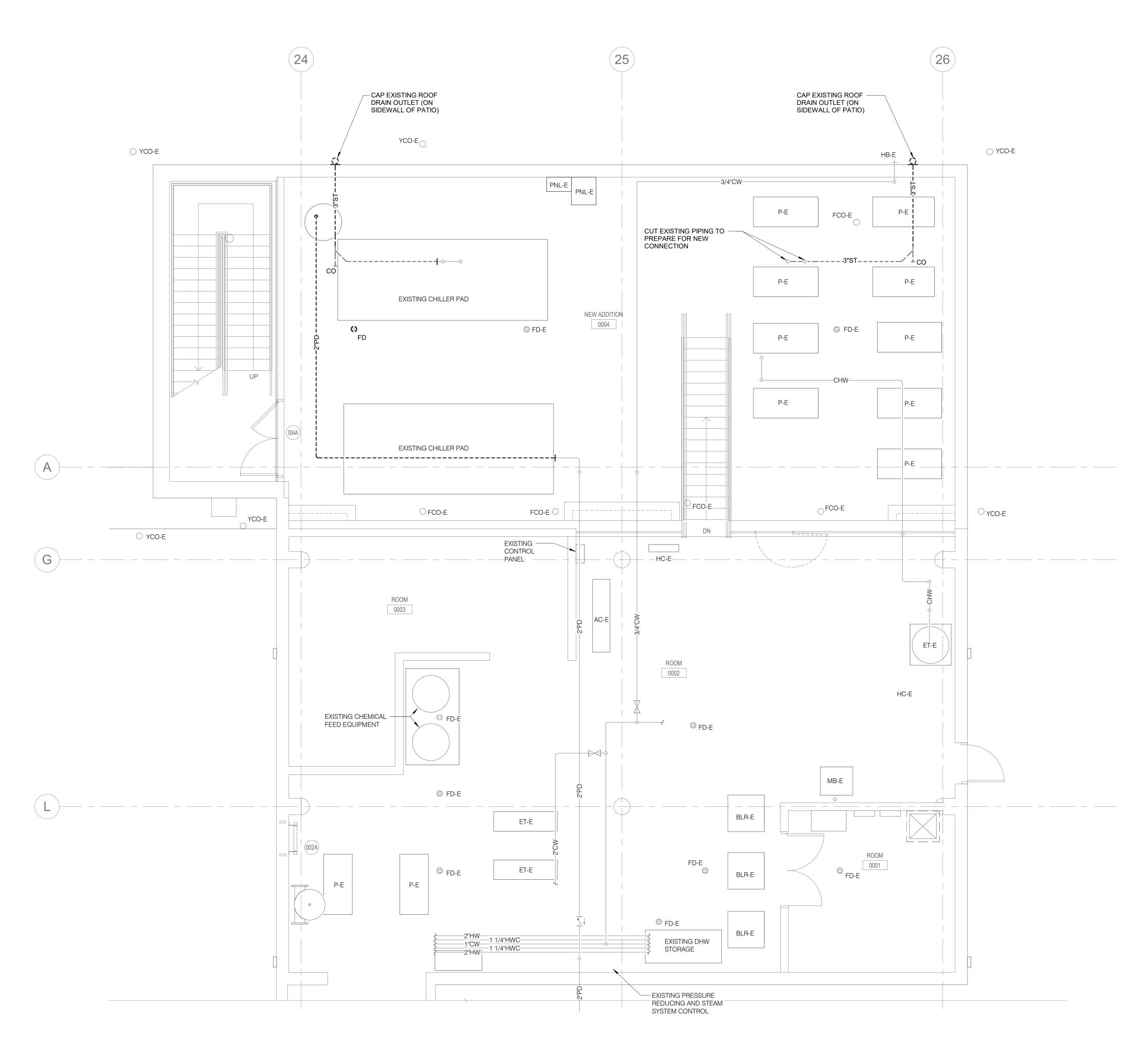
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SHEET INFORMATION ISSUED FOR BID/CONSTRUCTION

UNDERFLOOR SUB-VAULT D

1/4" = 1'-0"

**PD100** 







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SUB-VAULT D DEMOLITION PLAN PLUMBING

Scale: 1/4" =

PD101

KEYNOTES: #

REFER TO DETAIL ON 1/P300 FOR MORE INFORMATION.
 REFER TO DETAIL ON 2/P300 FOR MORE INFORMATION.



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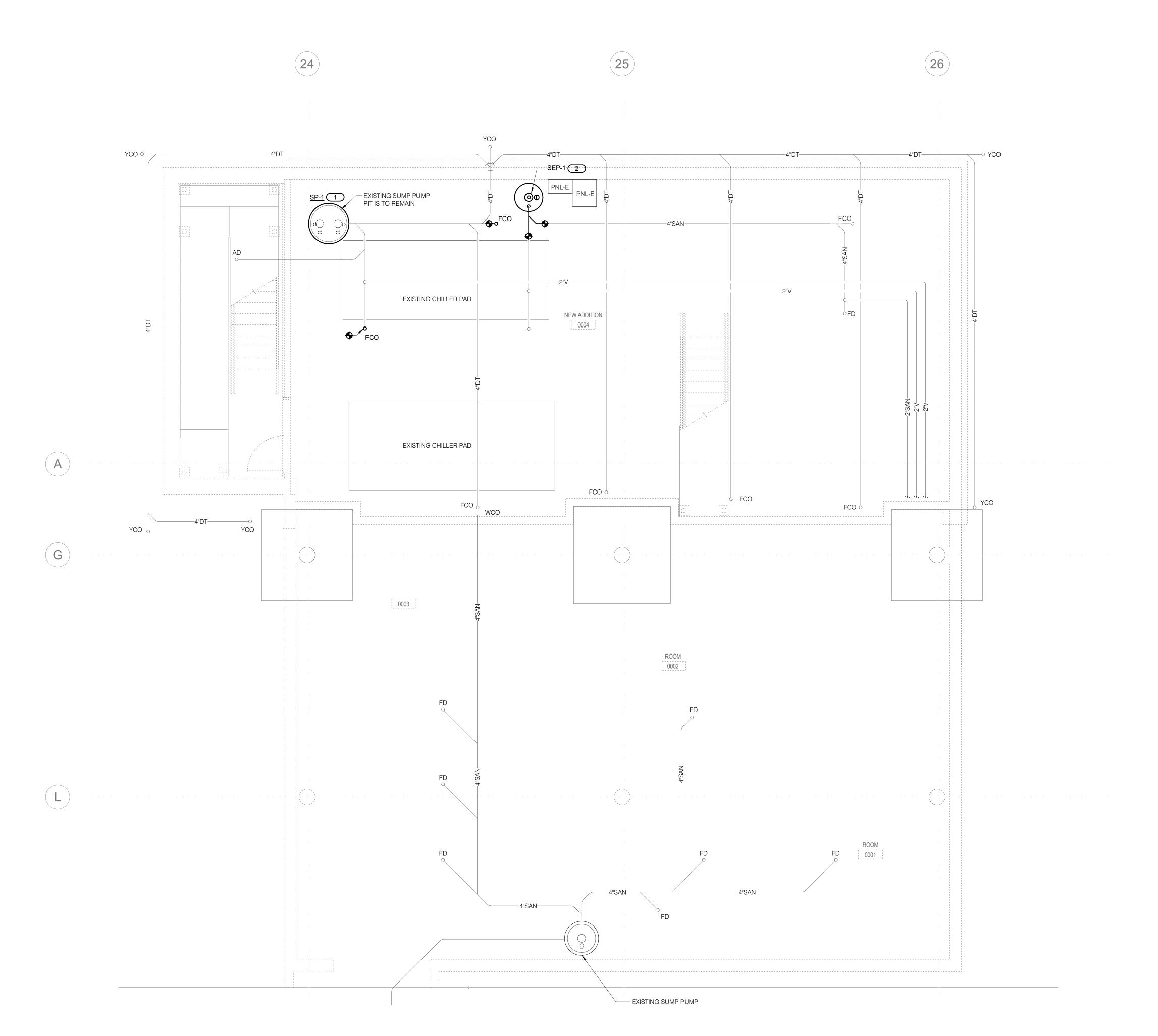
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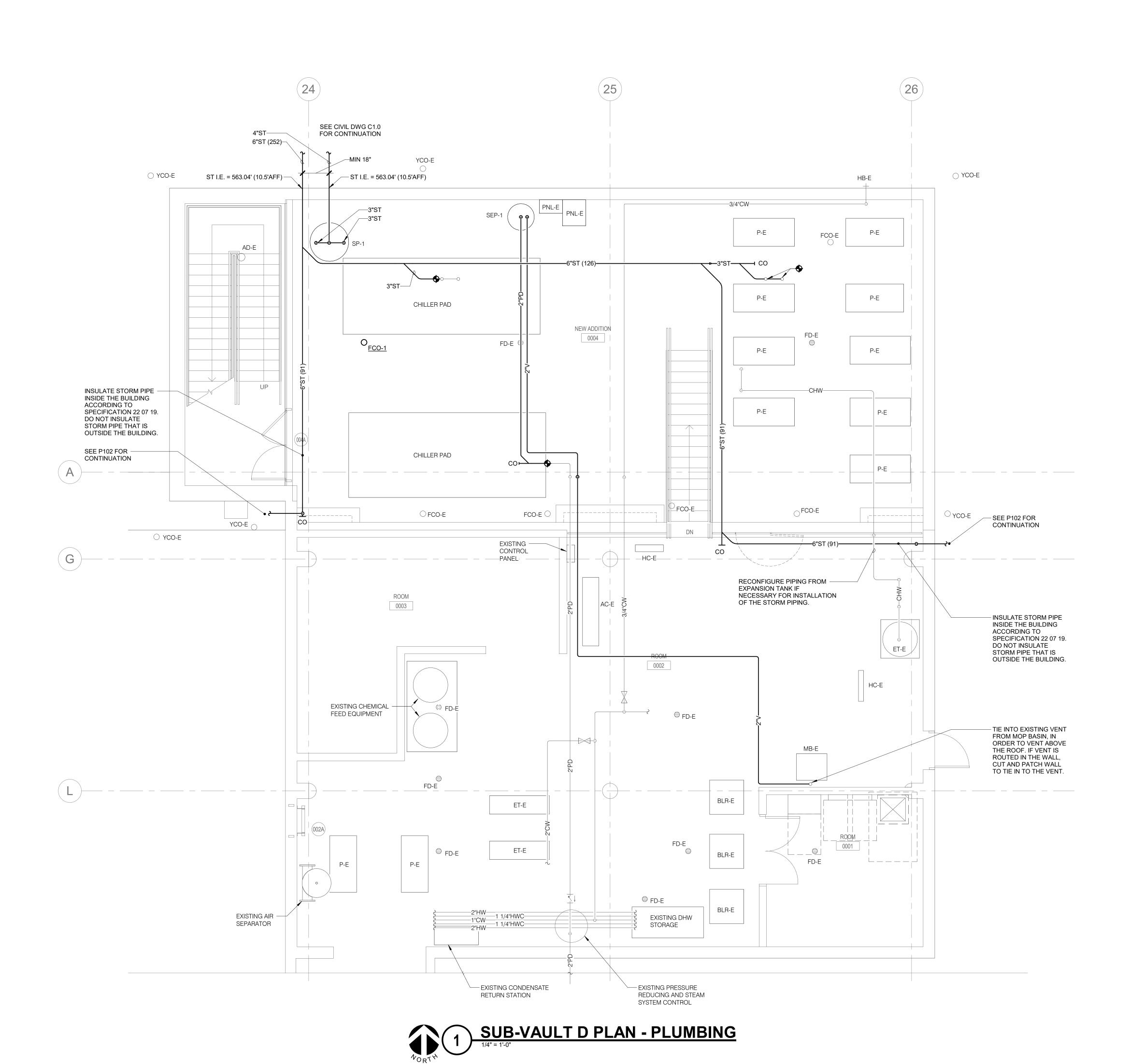
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UNDERFLOOR SUB-VAULT D PLAN PLUMBING

SCALE
Scale: 1/4" = 1'-0"





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 Issue
 ISSUED FOR BID/CONSTRUCTION

 Date
 5/19/2023

 Project #
 23001895.00

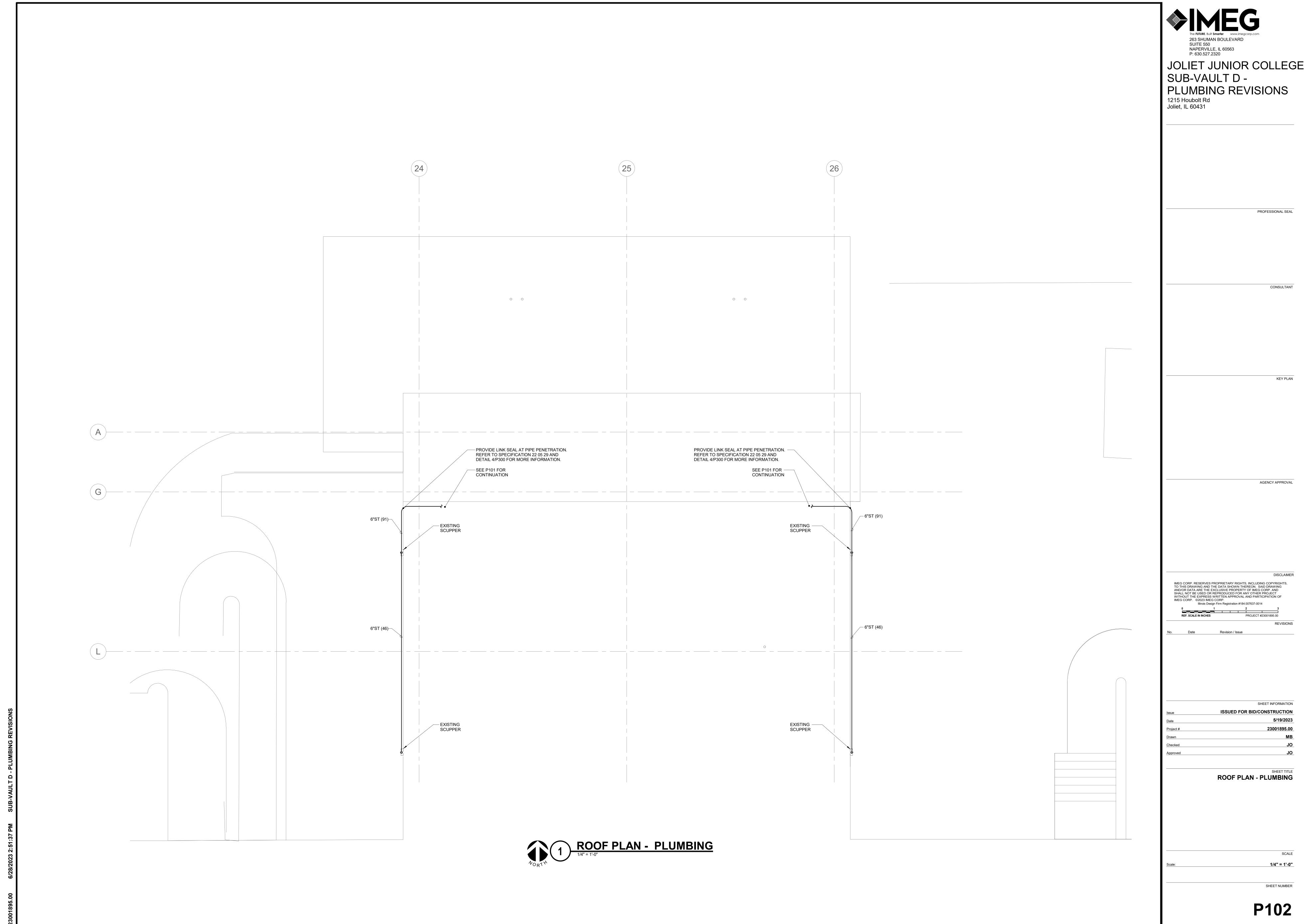
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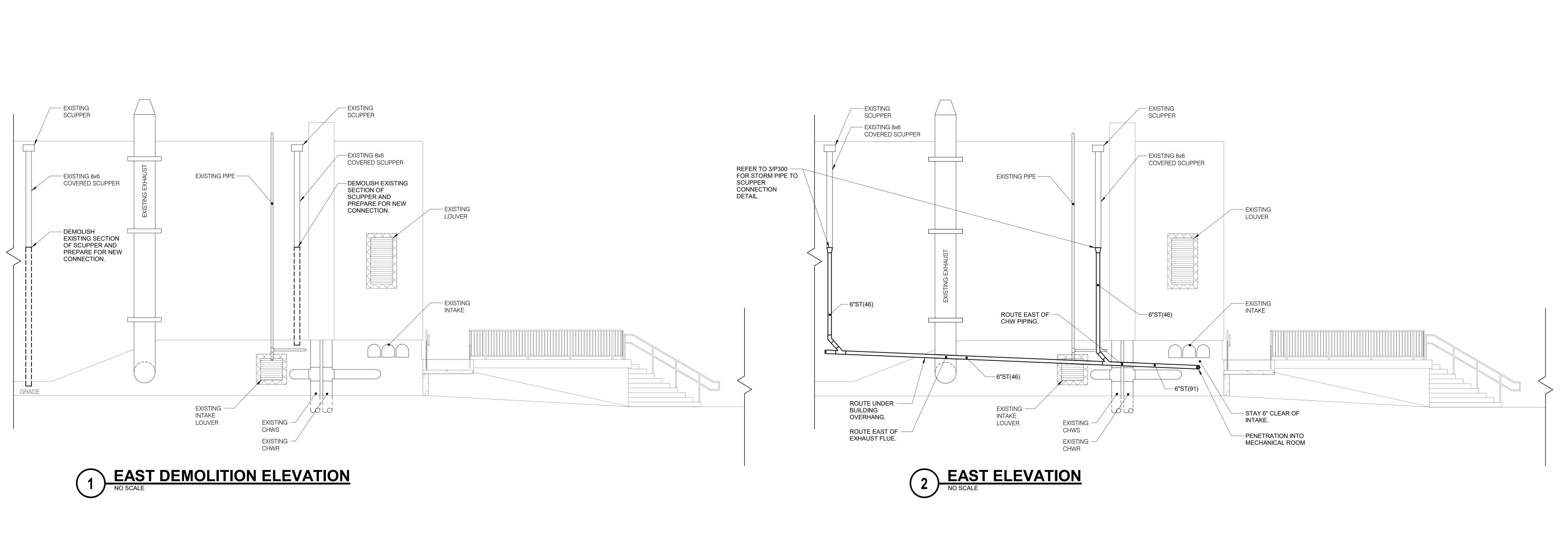
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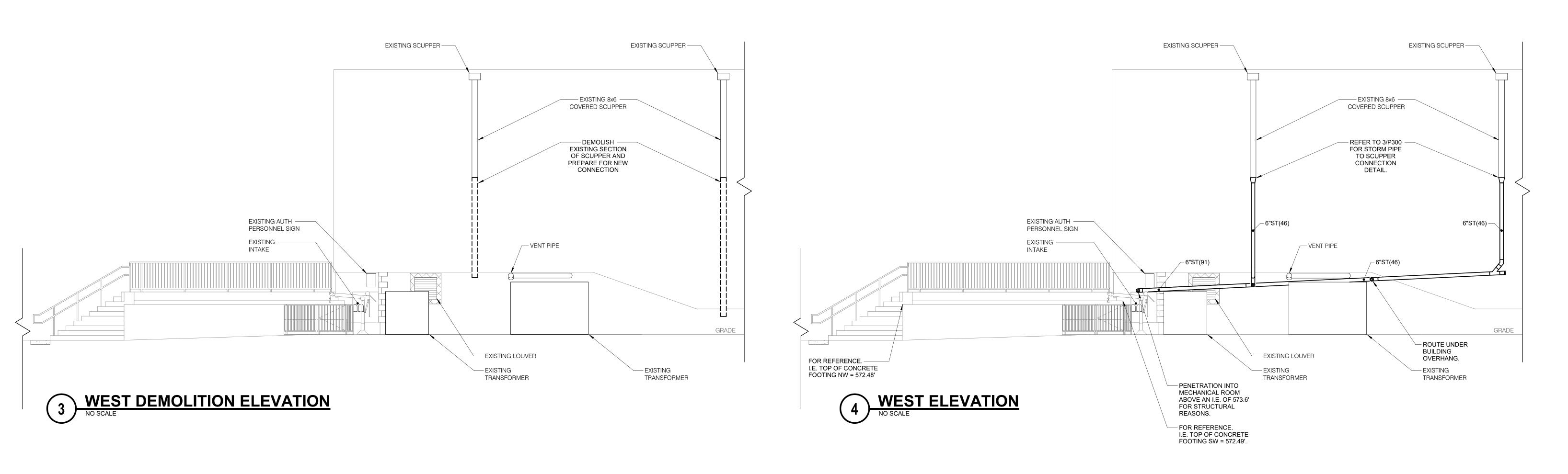
SUB-VAULT D PLAN - PLUMBING

Scale: 1/4" = 1'-0"



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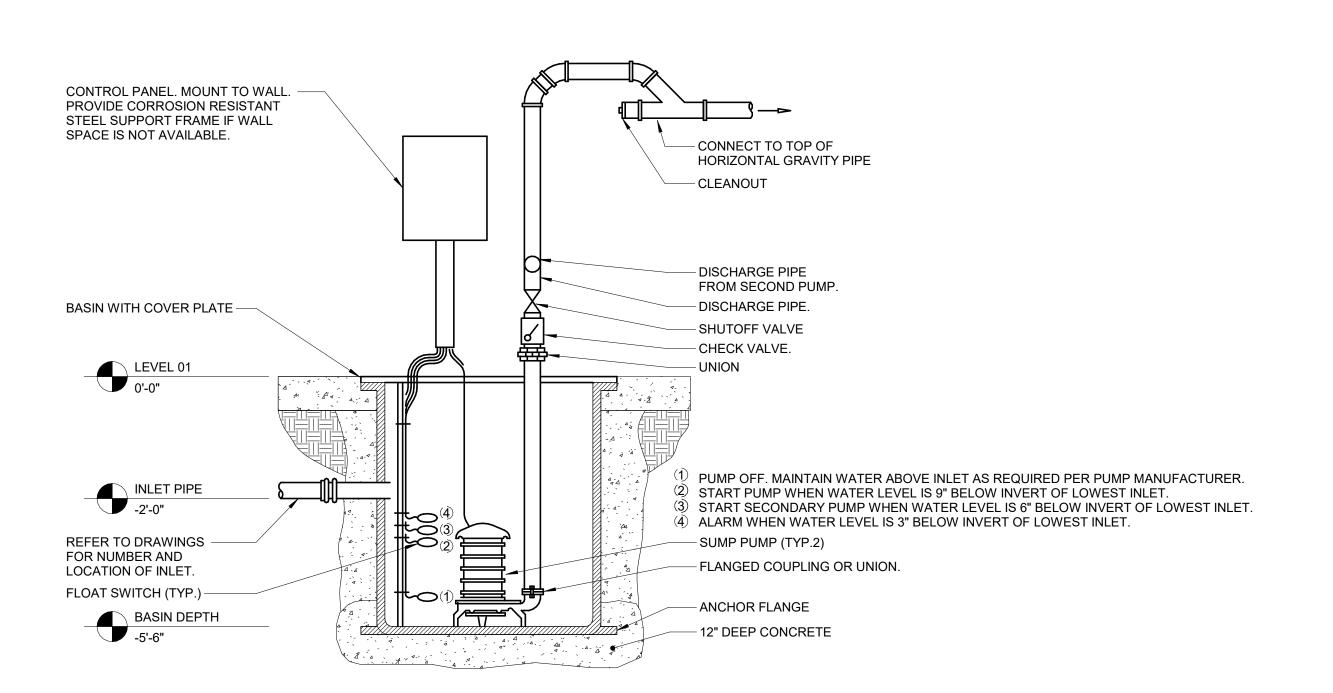
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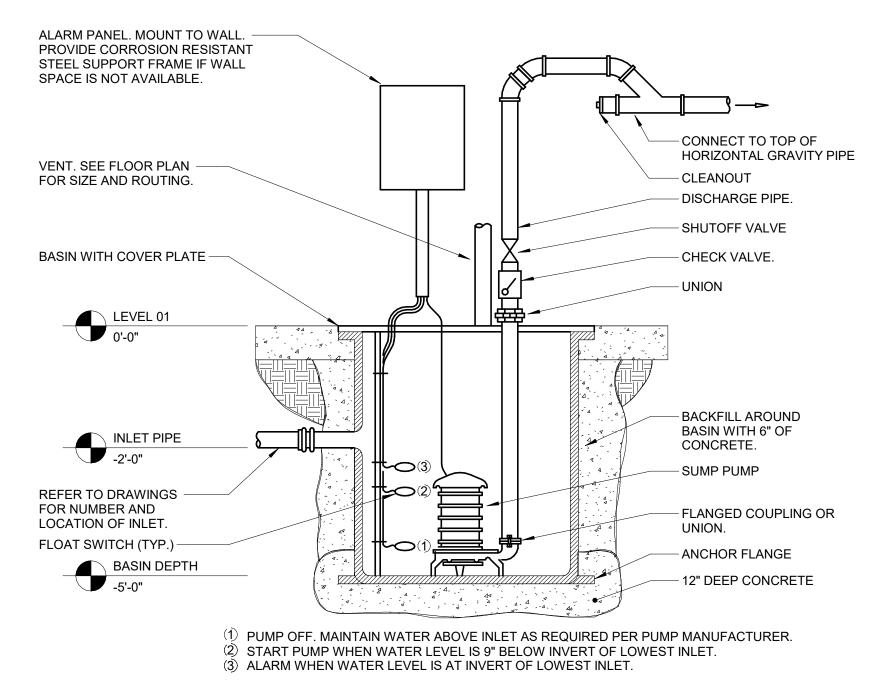
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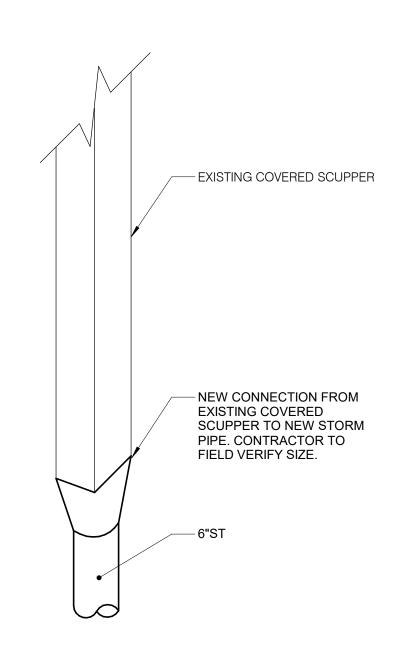
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PLUMBING ELEVATIONS

3/16" = 1'-0"



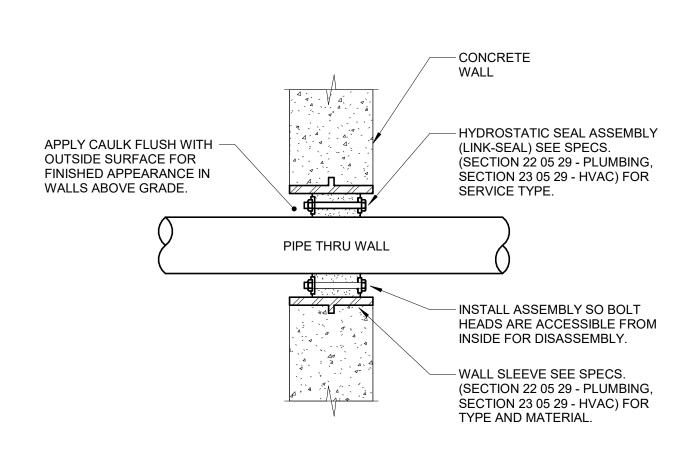


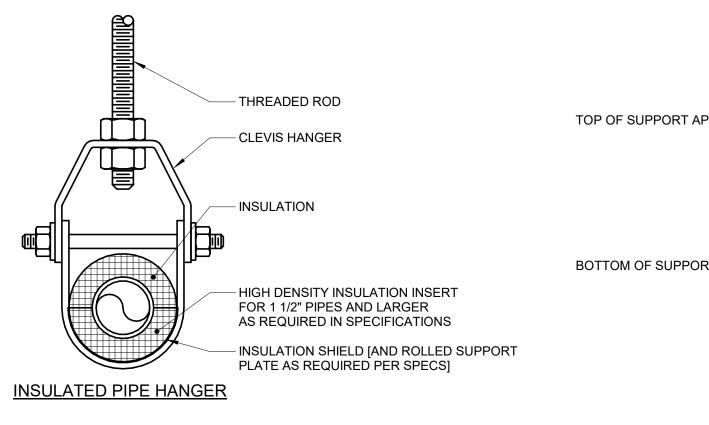


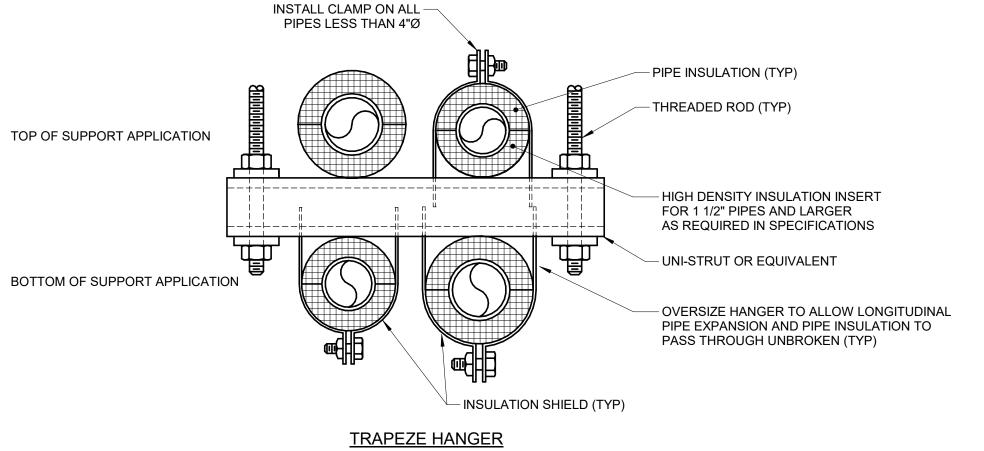
1 SUMP PUMP - SUBMERSED DUPLEX
NO SCALE

2 SEWAGE PUMP - SUBMERSED SIMPLEX
NO SCALE

3 SCUPPER TO PIPE DETAIL
NO SCALE







WALL PENETRATION - EXTERIOR - PIPING
NO SCALE

## NOTES

- CONTRACTOR MAY FABRICATE PIPE SLEEVE.
   SEAL SELECTION BASED ON O.D. OF PIPE THRU WALL AND I.D. OE SLEEVE
- OF SLEEVE.

  3. SLEEVE NOT REQUIRED FOR CORE DRILLED PENETRATIONS.

PIPE - HANGERS AND SUPPORTS
NO SCALE
NOTES:

1. REFER TO SPECIFICATION SECTIONS 22 05 29-PLUMBING, SECTION 22 07 19-PLUMBING.

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PLUMBING REVISIONS