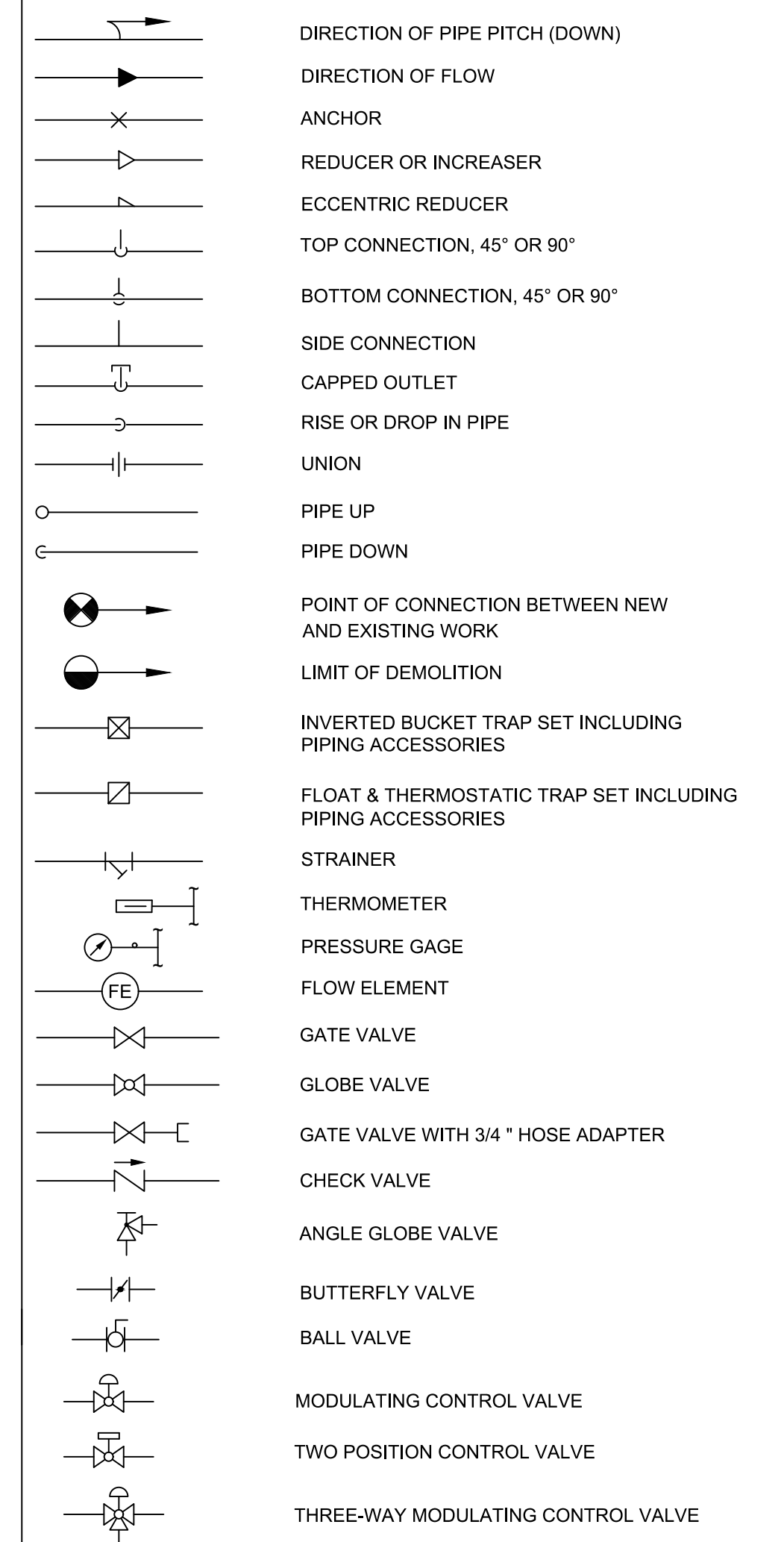
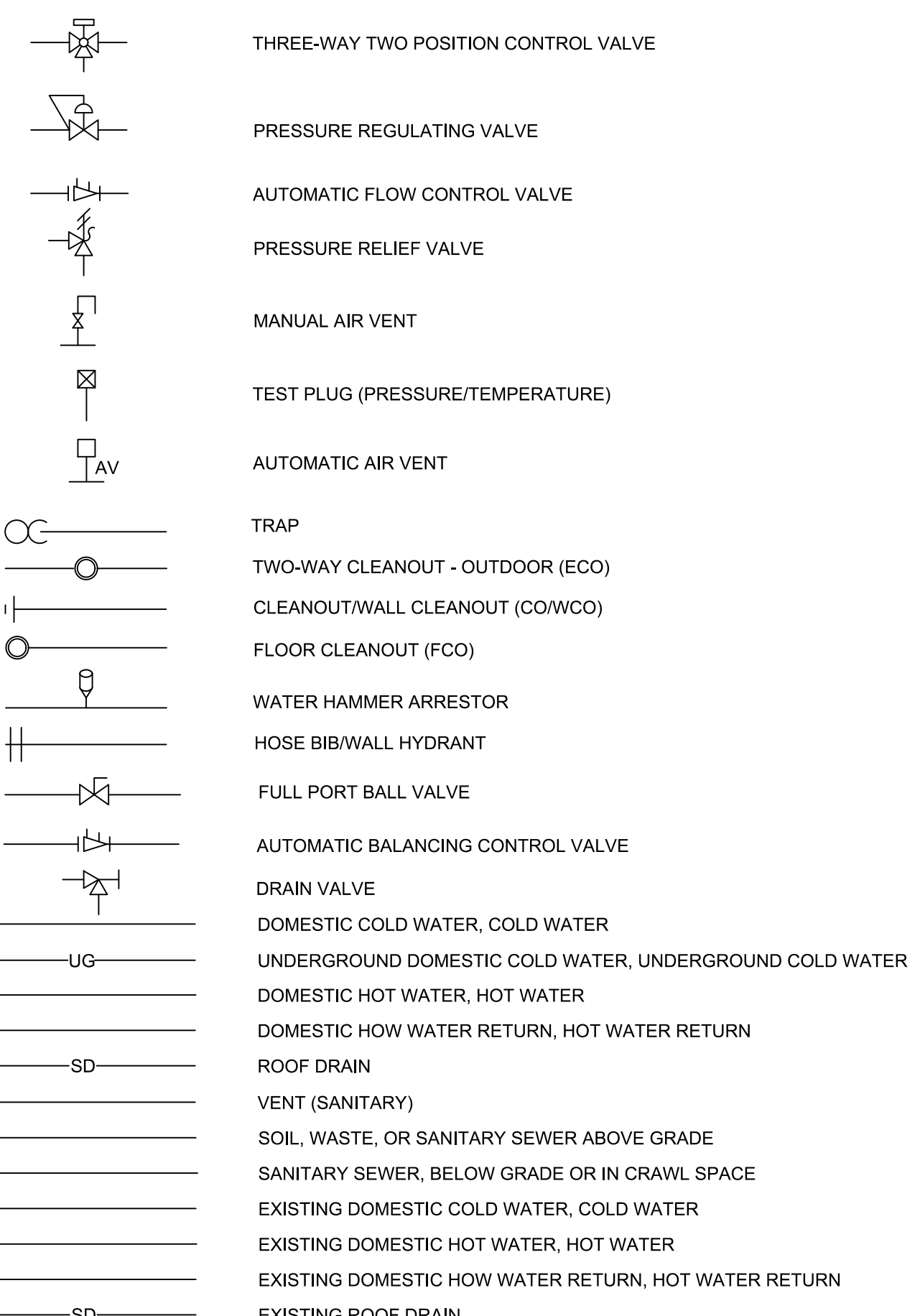


PLUMBING ABBREVIATIONS AND SYMBOLS LEGEND

Table listing plumbing abbreviations such as ABS, A/E, AF, ASP, BACNET, BAS, BHP, CV, CXA, DDC, DFU, DI, DW, DWG, DWV, EL, F, FCO, FD, FU, GAL, GPM, GRS, QRS, GT, GTCW, HB, HD, HP, HZ, INV, IPC, KW, LAV, LB, M, MFG, MIN, NC, NG, NO, NTS, PA, PG, PPM, PRV, PSI, PVC, RD, RO, RPM, SAN, SQFT, SS, SW, TD, TYP, V, VAC, VTR, W, WC, WH, WSFU.



NOTE: NOT ALL ABBREVIATIONS AND SYMBOLS ARE USED WITHIN THIS PROJECT

PLUMBING GENERAL NOTES

- 1. REFER TO ALL JOB SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL INFORMATION.
2. COORDINATE ALL WORK WITH OTHER TRADES AND LOCAL AUTHORITIES HAVING JURISDICTION PRIOR WORK COMMENCEMENT.
3. PIPING ROUTING SHOWN IS SCHEMATIC, AND IS INTENDED TO INDICATE GENERAL ROUTING.
4. SLEEVE AND FIRE STOP ALL PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS, ETC., IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS OF ASSEMBLIES.
5. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL.
6. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
7. SEE RISER DIAGRAMS FOR BRANCH PIPING DETAILS AND SIZES NOT SHOWN ON PLAN.
8. ALL PIPING SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
9. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF THE SYSTEM.
10. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FT. FROM, OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT.
11. PROVIDE SUPPLY STOPS ON HOT AND COLD WATER PIPE SUPPLYING ALL FIXTURES AND EQUIPMENT.
12. SUBMIT CORE-DRILL PLAN TO STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO STARTING ANY WORK.
13. FURNISH AND INSTALL DIELECTRIC COUPLINGS/UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
14. CONTRACTOR SHALL INSTALL ALL EQUIPMENT PER THE MANUFACTURER INSTALLATION RECOMMENDATIONS.
15. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS RELATED TO PLUMBING FIXTURE SELECTIONS, COLOR FINISHES AND PIPE ROUTING.
16. PROVIDE ALL NECESSARY VALVES, TRAPS, FLOW CONTROLS, FILTERS, BACKFLOW ASSEMBLIES, FAUCETS, STOPS, TAILPIECES, VACUUM BREAKERS, IF NOT FURNISHED WITH EQUIPMENT.
17. PROVIDE APPROVED CHROME PLATED TYPE VACUUM BREAKERS WHERE REQUIRED BY LOCAL CODES, AND AS INDICATED ON PLANS FOR NEW WORK.
18. DOMESTIC COLD AND HOT WATER VELOCITY SHALL NOT EXCEED FIVE FEET PER SECOND.
19. PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
20. ALL EQUIPMENT WARRANTIES SHALL BEGIN ON THE DATE OF THE PROJECT SUBSTANTIAL COMPLETION.
21. INSULATE ALL HOT WATER PIPING WITH 1" RIGID FIBERGLASS OR 1/2" FLEXIBLE FOAM INSULATION (ARMAFLEX).
22. ALL PIPE SIZES INDICATED ARE MINIMUM INSIDE DIAMETER.
23. INSULATE ALL HOT WATER PIPING WITH 1" RIGID FIBERGLASS OR 1/2" FLEXIBLE FOAM INSULATION (ARMAFLEX).
24. ALL NEW DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT 100 PSIG FOR A PERIOD OF NO LESS THAN ONE HOUR.
25. WASTE AND VENT PIPING SHALL BE FILLED WITH WATER TO A 15 FEET OF HEAD AND ALLOW TO STAND UNTIL WATER LEVEL REMAINS CONSTANT.
26. STERILIZE ALL NEW DOMESTIC WATER PIPING WITH MIXTURE OF TWO POUNDS OF CHLORINATED LIME TO EACH 1000 GALLONS OF WATER.
27. INSULATE ALL AIR CONDITIONING AND REFRIGERATION CONDENSATE WITH 3/4" INCOAFLEX PIPE INSULATION OR EQUAL.
28. ALL HORIZONTAL VENT PIPING SHALL SLOPE TO DRAW TO STACKS.
29. DO NOT PENETRATE WALL FOOTINGS WITH PIPE.
30. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO ALL EQUIPMENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
31. IF, THROUGH ERROR OR OMISSIONS, THE INTENT OF ARCHITECT/ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR OR IS CAPABLE OF MORE THAN ONE INTERPRETATION.
32. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED.
33. UNDERGROUND, SOIL, WASTE, AND VENT PIPING NPS 4 AND SMALLER SHALL BE SOLID WALL ASTM D2665 SCHEDULE 40 PVC.
34. ABOVEGROUND VENT PIPING NPS 4 AND SMALLER SHALL BE SOLID WALL ASTM D2665 SCHEDULE 40 PVC.
35. SLOPE ALL SANITARY DWV, STORM DRAIN, AND CONDENSATE DRAIN PIPING NPS 3 AND LARGER A MINIMUM OF 1/8" PER LINEAR FEET OF RUN.
36. UNDERGROUND DOMESTIC WATER PIPE SHALL BE CPVC ASTM F441/F441M.
37. ABOVE GROUND DOMESTIC WATER PIPE SHALL BE CPVC ASTM F441/F441M.
38. INSULATE ALL HOT WATER PIPING WITH 1" RIGID FIBERGLASS OR 1/2" FLEXIBLE FOAM INSULATION (ARMAFLEX).
39. ALL HOT WATER HEATERS SHALL BE PROVIDED WITH HEAT TRAPS.
40. INFORMATION SHOWN ON THIS DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATE AND INFORMATION AVAILABLE TO THE ENGINEER.

SCOPE OF WORK

- PROVIDE ALL NEW PLUMBING FIXTURES AND PIPING IN NEW OFFICE AND WAREHOUSE SPACES.
• PROVIDE NEW ELECTRIC WATER HEATER.
• PROVIDE NEW HOT WATER RECIRCULATION PUMP.

WATER SUPPLY CALCULATIONS

Table with columns: FIXTURE TAG, FIXTURE LOCATION, FIXTURE TYPE, OCCUPANCY TYPE, CONTROL TYPE, COLD (GPM), HOT (GPM), TOTAL (GPM). Lists various fixtures like utility rooms, equipment storage, breakrooms, lavatories, and lockers.

DRAINAGE CALCULATIONS (FPC 8TH EDITION COMPLIANT)

Table with columns: FIXTURE TAG, FIXTURE LOCATION, FIXTURE TYPE, OCCUPANCY, ADDITIONAL INFORMATION, MINIMUM SIZE OF TRAP (INCHES), DRAINAGE FIXTURE UNIT VALUE AS LOAD FACTORS. Lists fixtures like service sinks, drinking fountains, ice makers, and lavatories.

NOTES:

- A. FOR TRAPS LARGER THAN 3 INCHES, USE TABLE 709.2.
B. A SHOWERHEAD OVER A BATHTUB OR WHIRLPOOL BATHTUB ATTACHMENT DOES NOT INCREASE THE DRAINAGE FIXTURE UNIT VALUE.
C. SEE SECTIONS 709.2 THROUGH 709.4.1 FOR METHODS OF COMPUTING UNIT VALUE OF FIXTURES NOT LISTED IN THIS TABLE OR FOR RATING OF DEVICES WITH INTERMITTENT FLOWS.
D. TRAP SIZE SHALL BE CONSISTENT WITH THE FIXTURE OUTLET SIZE.
E. FOR THE PURPOSE OF COMPUTING LOADS ON BUILDING DRAINS AND SEWERS, WATER CLOSETS AND URINALS SHALL NOT BE RATED AT A LOWER DRAINAGE FIXTURE UNIT UNLESS THE LOWER VALUES ARE CONFIRMED BY TESTING.
F. FOR FIXTURES ADDED TO A BATHROOM GROUP, ADD THE DFU VALUE OF THOSE ADDITIONAL FIXTURES TO THE BATHROOM GROUP FIXTURE COUNT.
G. SEE SECTION 408.2 FOR SIZING REQUIREMENTS FOR FIXTURE DRAIN, BRANCH DRAIN AND DRAINAGE STACK FOR AN AUTOMATIC CLOTHES WASHER STANDPIPE.
H. SEE SECTIONS 709.4 AND 709.4.1.

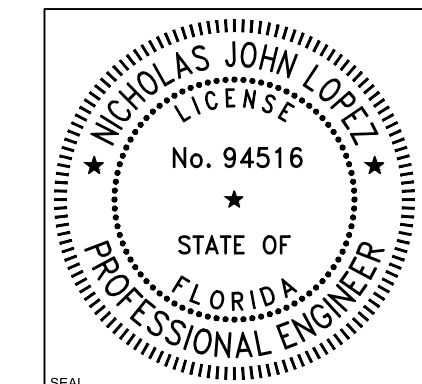
PLUMBING INDEX SHEET

Table with columns: SHEET NUMBER, SHEET TITLE. Lists sheets P001 through P801.



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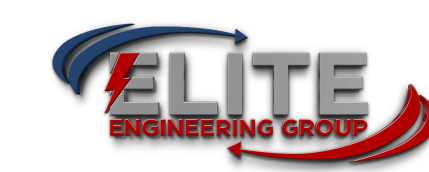
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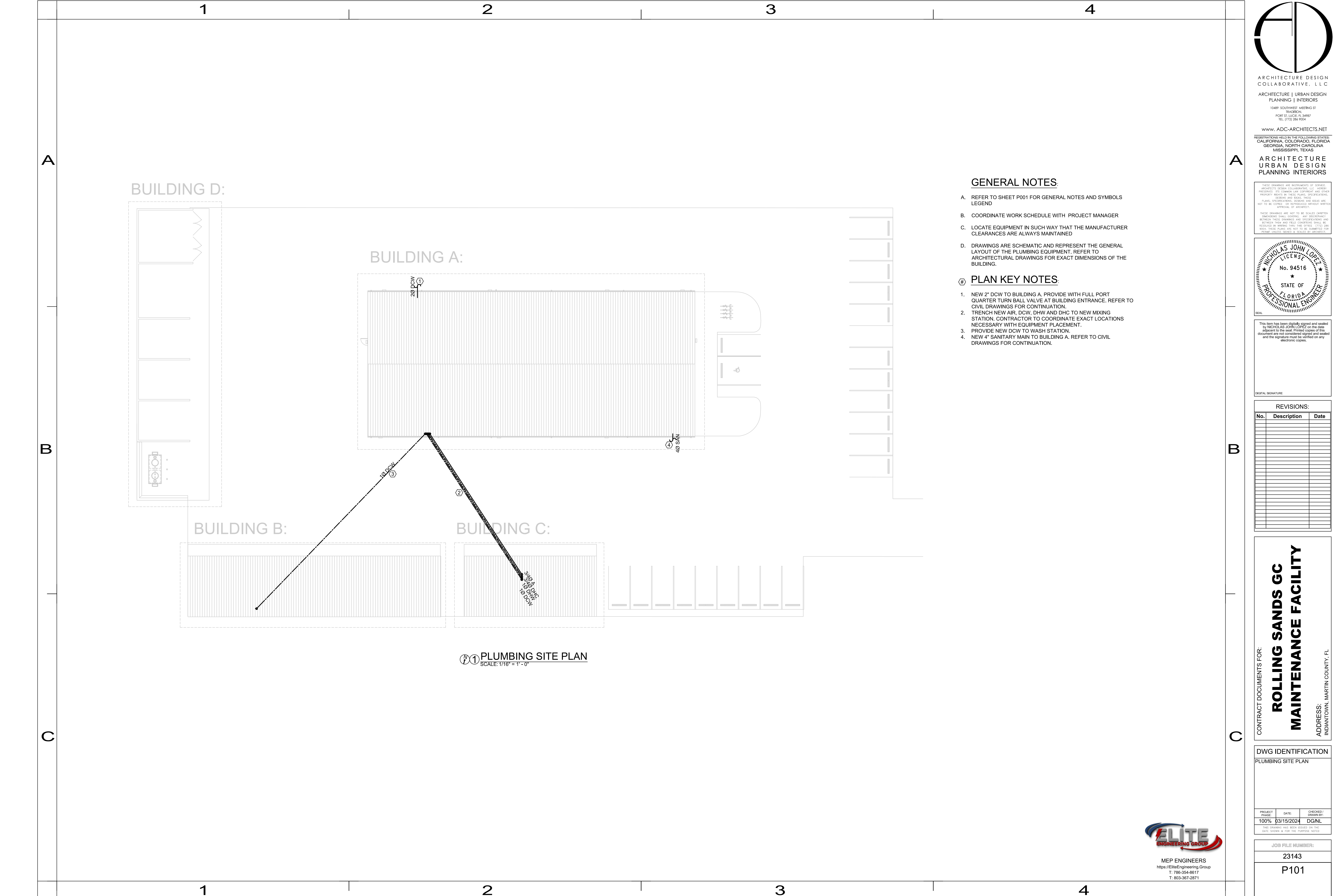
DWG IDENTIFICATION PLUMBING GENERAL NOTES & LEGEND

Table with columns: PROJECT, DATE, CHECKED/DRAWN BY. Shows 100% completion on 03/15/2024 by DGNL.

JOB FILE NUMBER: 23143 P001



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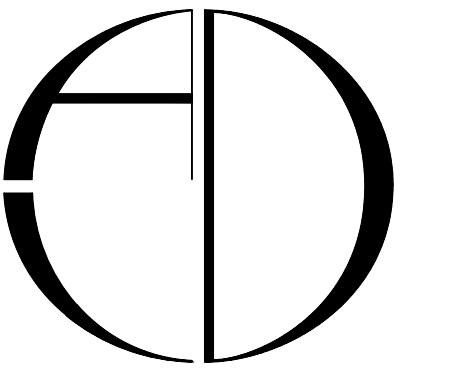
① PLUMBING SITE PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

- A. REFER TO SHEET P001 FOR GENERAL NOTES AND SYMBOLS LEGEND
- B. COORDINATE WORK SCHEDULE WITH PROJECT MANAGER
- C. LOCATE EQUIPMENT IN SUCH WAY THAT THE MANUFACTURER CLEARANCES ARE ALWAYS MAINTAINED
- D. DRAWINGS ARE SCHEMATIC AND REPRESENT THE GENERAL LAYOUT OF THE PLUMBING EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE BUILDING.

⑥ **PLAN KEY NOTES:**

- 1. NEW 2" DCW TO BUILDING A. PROVIDE WITH FULL PORT QUARTER TURN BALL VALVE AT BUILDING ENTRANCE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2. TRENCH NEW AIR, DCW, DHW AND DHC TO NEW MIXING STATION. CONTRACTOR TO COORDINATE EXACT LOCATIONS NECESSARY WITH EQUIPMENT PLACEMENT.
- 3. PROVIDE NEW DCW TO WASH STATION.
- 4. NEW 4" SANITARY MAIN TO BUILDING A. REFER TO CIVIL DRAWINGS FOR CONTINUATION.



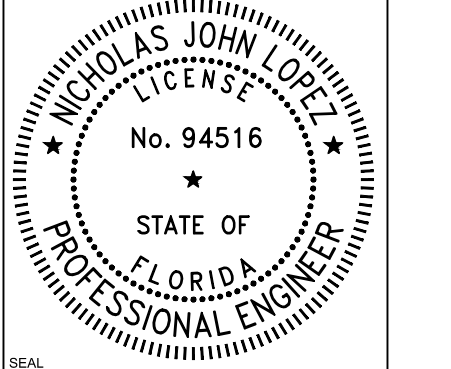
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DWG IDENTIFICATION
PLUMBING SITE PLAN

PROJECT PHASE	DATE	CHECKED/ DRAWN BY
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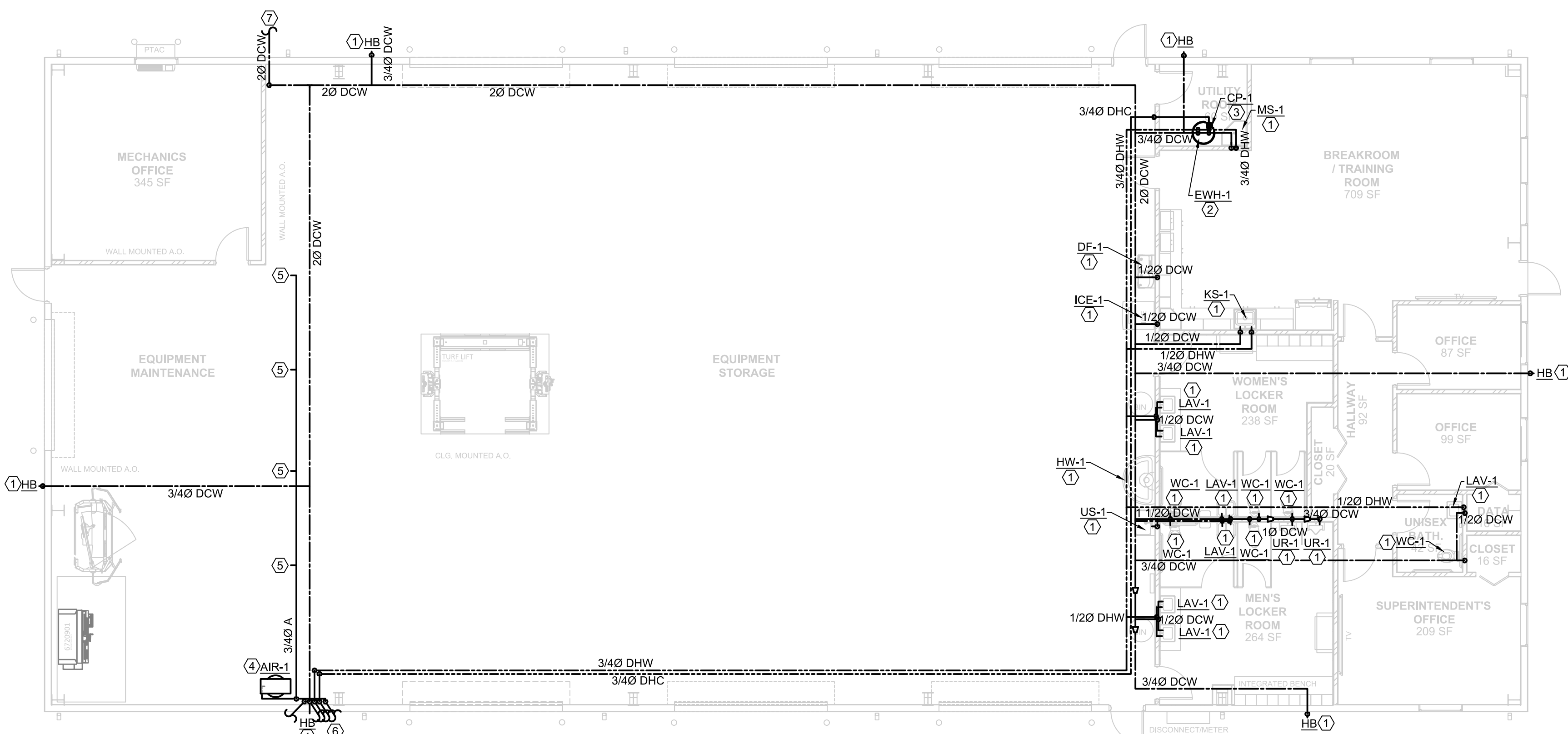
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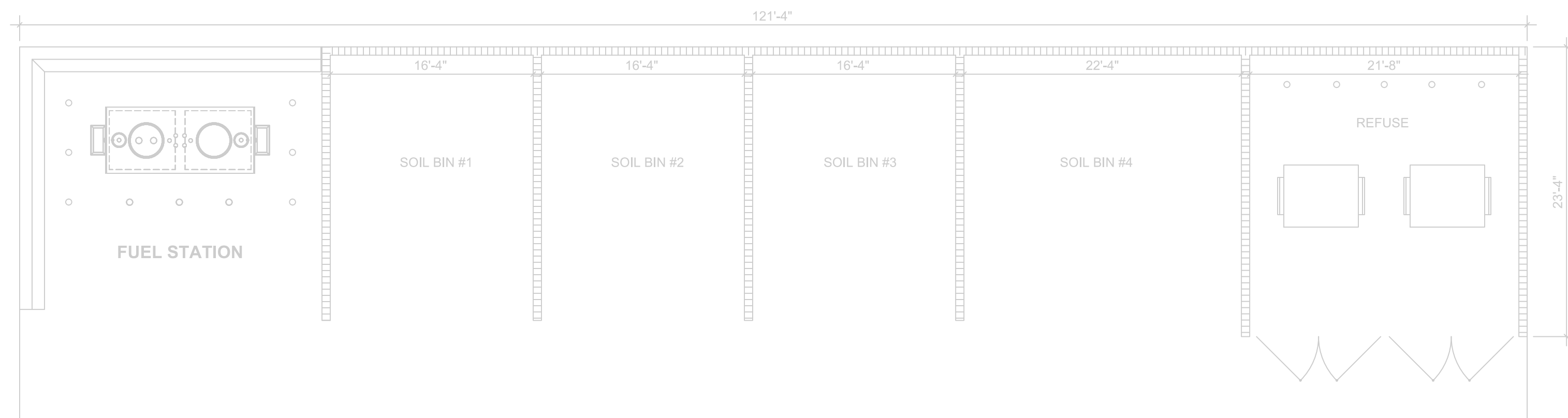
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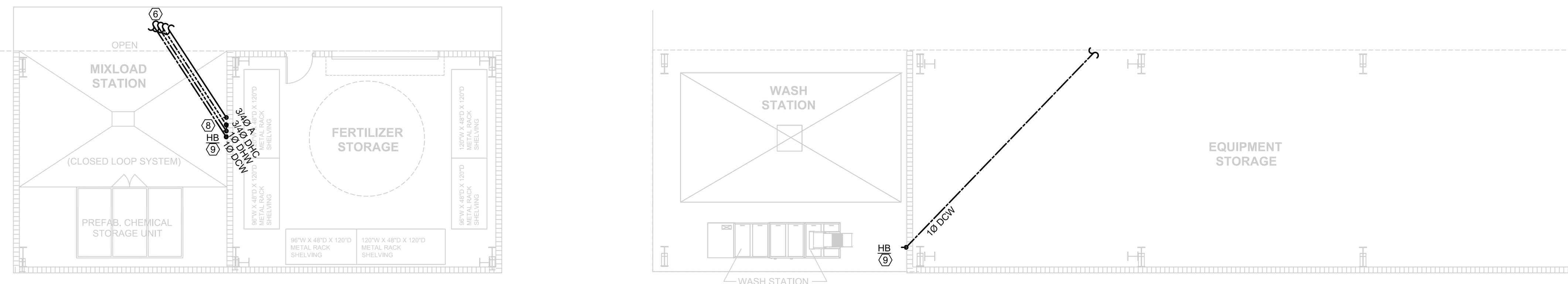
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1 PLUMBING DOMESTIC WATER FLOOR PLAN-BUILDING A
SCALE: 1/8" = 1'-0"



2 PLUMBING DOMESTIC WATER FLOOR PLAN-BUILDING D
SCALE: 1/8" = 1'-0"



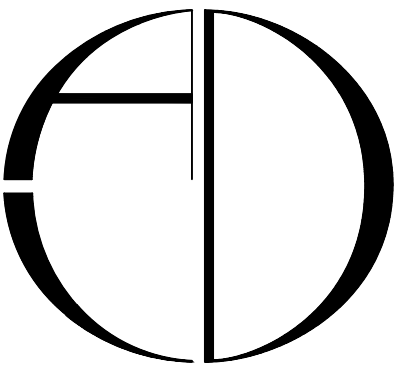
3 PLUMBING DOMESTIC WATER FLOOR PLAN-BUILDING B & C
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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PLAN KEY NOTES:

- 1. PROVIDE NEW PLUMBING FIXTURE AND ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION.
- 2. PROVIDE NEW ELECTRIC HOT WATER HEATER AND ALL ASSOCIATED CONNECTIONS.
- 3. PROVIDE NEW HOT WATER CIRCULATOR PUMP AND TIE INTO COLD WATER INLET. COLD WATER INLET SHALL BE INSTALLED WITH A CHECK VALVE UPSTREAM OF THE CIRCULATOR PUMP AND EXPANSION TANK.
- 4. PROVIDE NEW AIR COMPRESSOR AND ALL ASSOCIATED CONNECTIONS.
- 5. PROVIDE NEW COMPRESSED AIR PIPING STUB-OUTS WITH FULL PORT BALL VALVES FOR FUTURE USE.
- 6. NEW DCW, DHW, DHC AND AIR CONTINUES TO OTHER BUILDINGS. REFER TO PLUMBING SITE PLAN.
- 7. 2" DCW PIPING ENTRANCE INTO BUILDING. PROVIDE WITH ISOLATION VALVE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 8. CONNECT HOT WATER RECIRCULATION TO DOMESTIC HOT WATER PIPING.
- 9. PROVIDE STUB-OUTS WITH FULL PORT QUARTER-TURN BALL VALVES FOR ALL UTILITIES SHOWN.



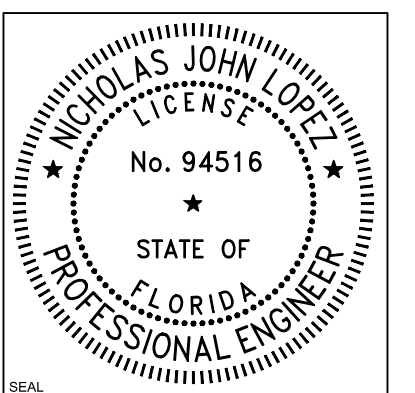
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DWG IDENTIFICATION
PLUMBING DOMESTIC WATER FLOOR PLAN

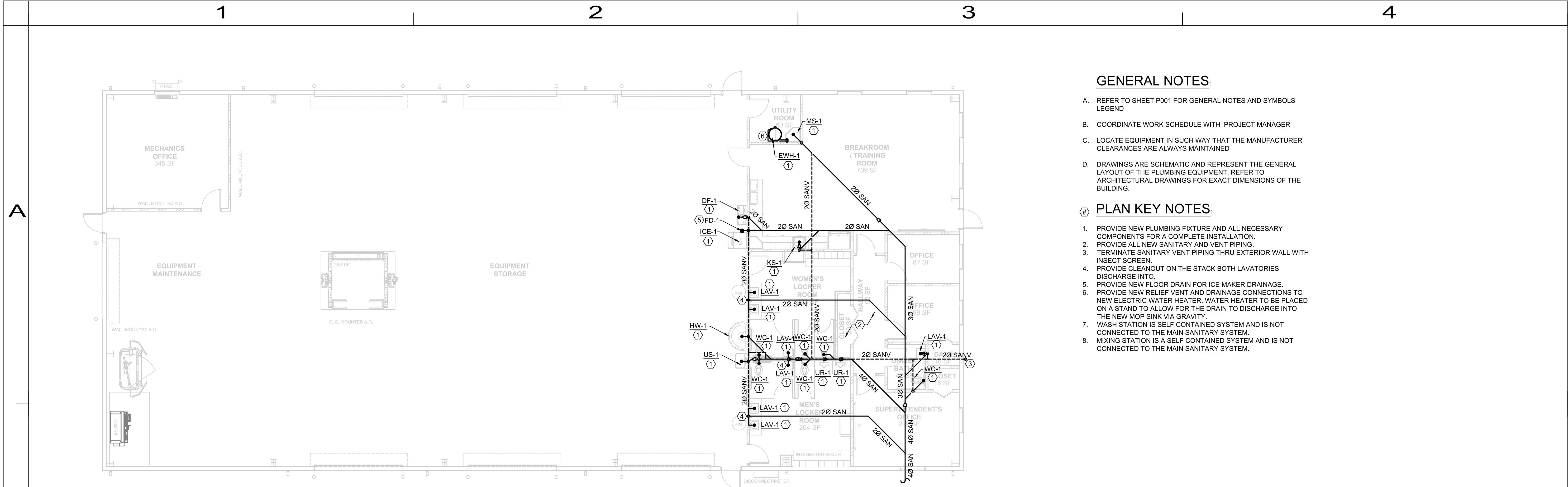
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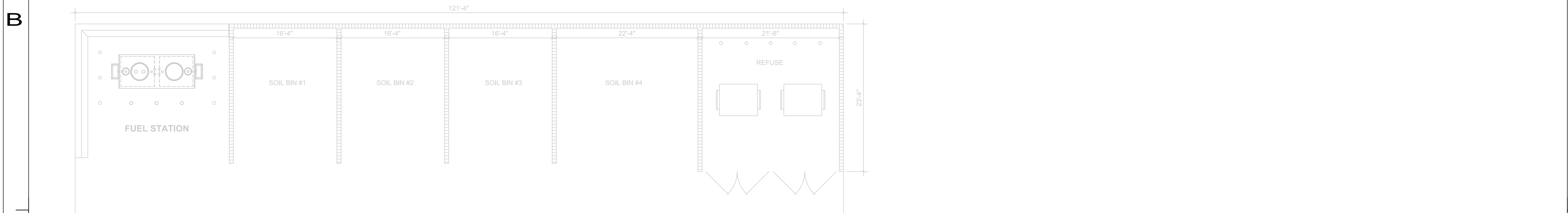
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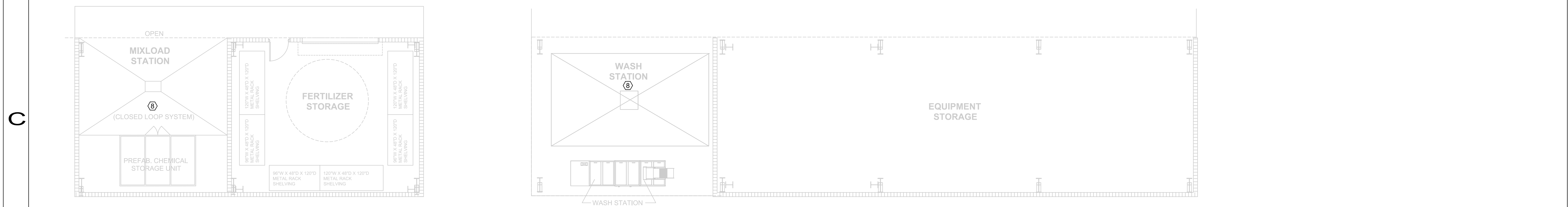
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1 PLUMBING SANITARY FLOOR PLAN-BUILDING A
SCALE: 1/8" = 1' - 0"



2 PLUMBING SANITARY FLOOR PLAN-BUILDING D
SCALE: 1/8" = 1' - 0"



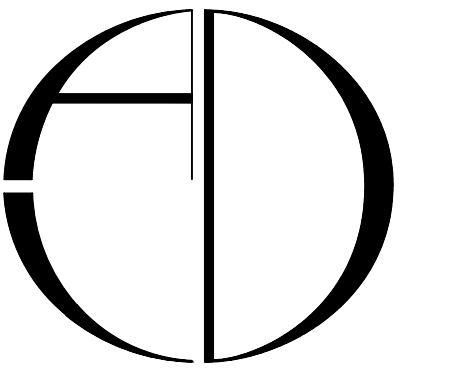
3 PLUMBING SANITARY FLOOR PLAN-BUILDING B & C
SCALE: 1/8" = 1' - 0"

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PLAN KEY NOTES:

- 1. PROVIDE NEW PLUMBING FIXTURE AND ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION.
- 2. PROVIDE ALL NEW SANITARY AND VENT PIPING.
- 3. TERMINATE SANITARY VENT PIPING THRU EXTERIOR WALL WITH INSECT SCREEN.
- 4. PROVIDE CLEANDOUT ON THE STACK BOTH LAVATORIES DISCHARGE INTO.
- 5. PROVIDE NEW FLOOR DRAIN FOR ICE MAKER DRAINAGE.
- 6. PROVIDE NEW RELIEF VENT AND DRAINAGE CONNECTIONS TO NEW ELECTRIC WATER HEATER. WATER HEATER TO BE PLACED ON A STAND TO ALLOW FOR THE DRAIN TO DISCHARGE INTO THE NEW MOP SINK VIA GRAVITY.
- 7. WASH STATION IS SELF CONTAINED SYSTEM AND IS NOT CONNECTED TO THE MAIN SANITARY SYSTEM.
- 8. MIXING STATION IS A SELF CONTAINED SYSTEM AND IS NOT CONNECTED TO THE MAIN SANITARY SYSTEM.



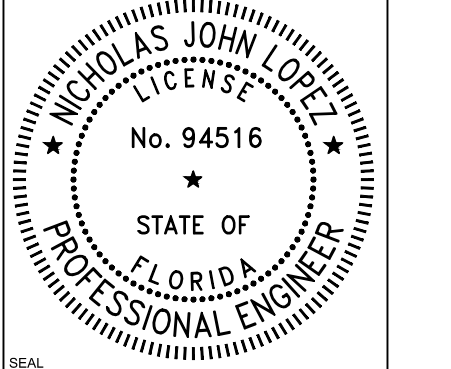
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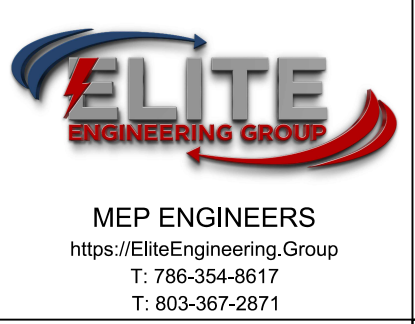
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ADDRESS: INDIANTOWN, MARTIN COUNTY, FL

DWG IDENTIFICATION
PLUMBING SANITARY FLOOR PLAN

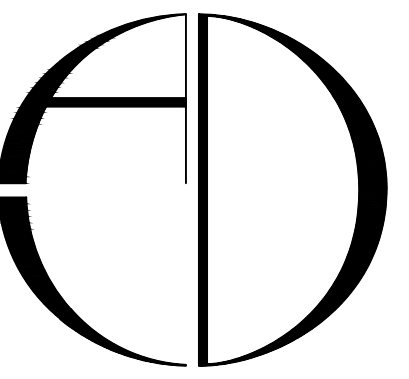
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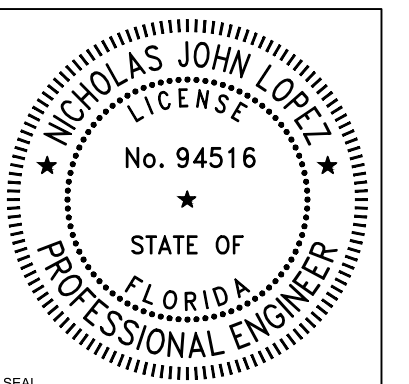
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ADDRESS:
INDIANTOWN, MARTIN COUNTY, FL

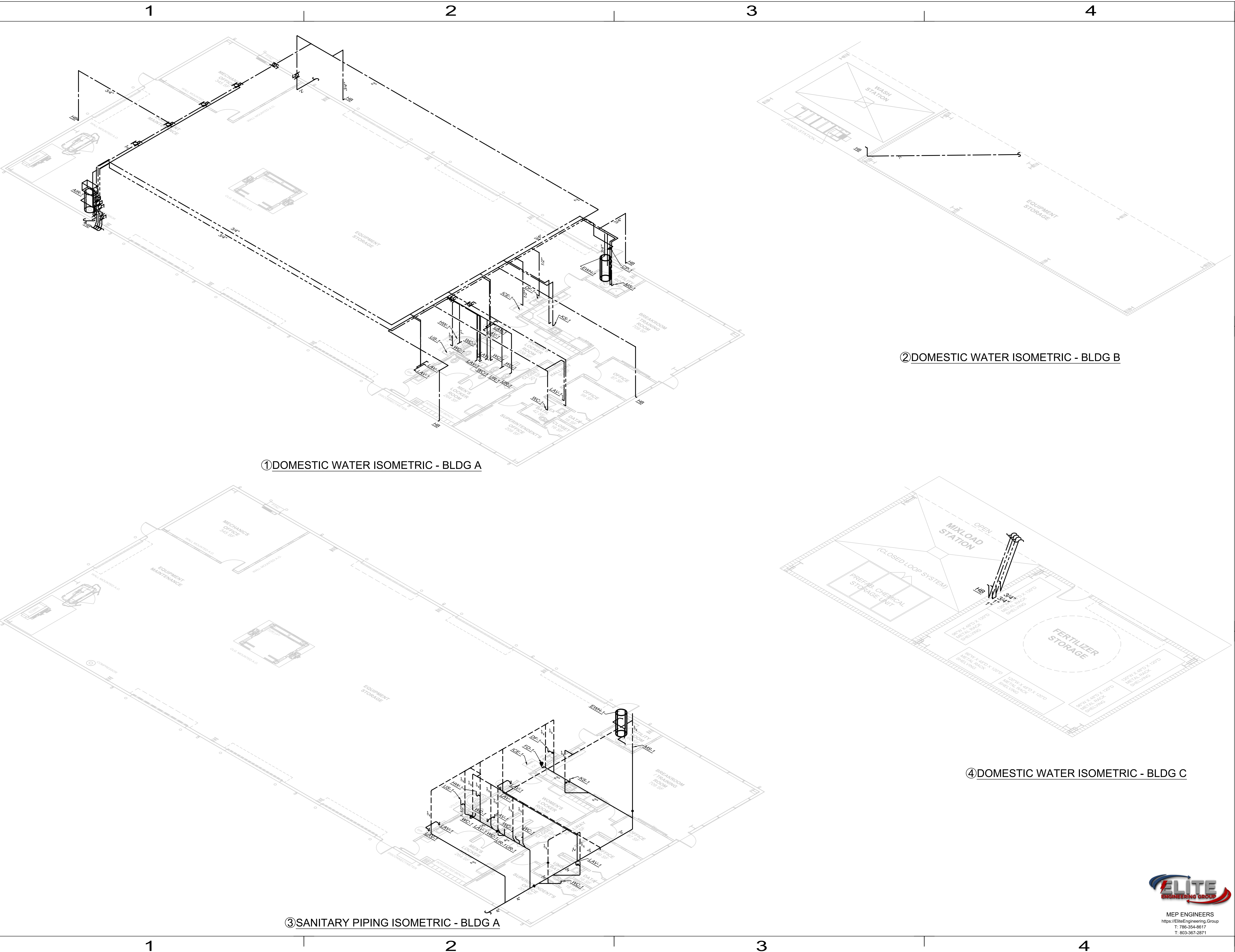
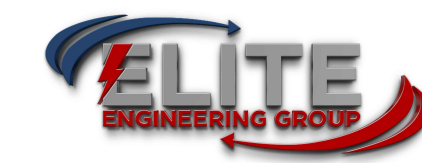
DWG IDENTIFICATION
PLUMBING RISER DIAGRAMS

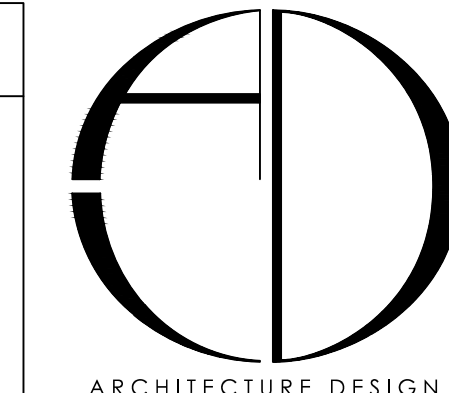
PROJECT PHASE	DATE	CHECKED/DRAWN BY
100%	03/15/2024	DGNL

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JOB FILE NUMBER:

23143
P301





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COLLABORATIVE, LLC
ARCHITECTURE | URBAN DESIGN
PLANNING | INTERIORS
10489 SOUTHWEST MEERING ST
TRACIDON,
FORT ST. JUDE, FL 34987
TEL: (772) 286-9304
www.ADC-ARCHITECTS.NET

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NICHOLAS JOHN LOPEZ
LICENSE
No. 94516
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SEAL

This item has been digitally signed and sealed by NICHOLAS JOHN LOPEZ on the date indicated in the seal. Printed copies of this document do not constitute signed and sealed and the signature must be verified on any electronic copies.

REVISIONS:

No.	Description	Date

CONTRACT DOCUMENTS FOR:
**ROLLING SANDS GC
MAINTENANCE FACILITY**
ADDRESS:
INDIANTOWN, MARTIN COUNTY, FL

DWG IDENTIFICATION
PLUMBING DETAILS &
SCHEDULES

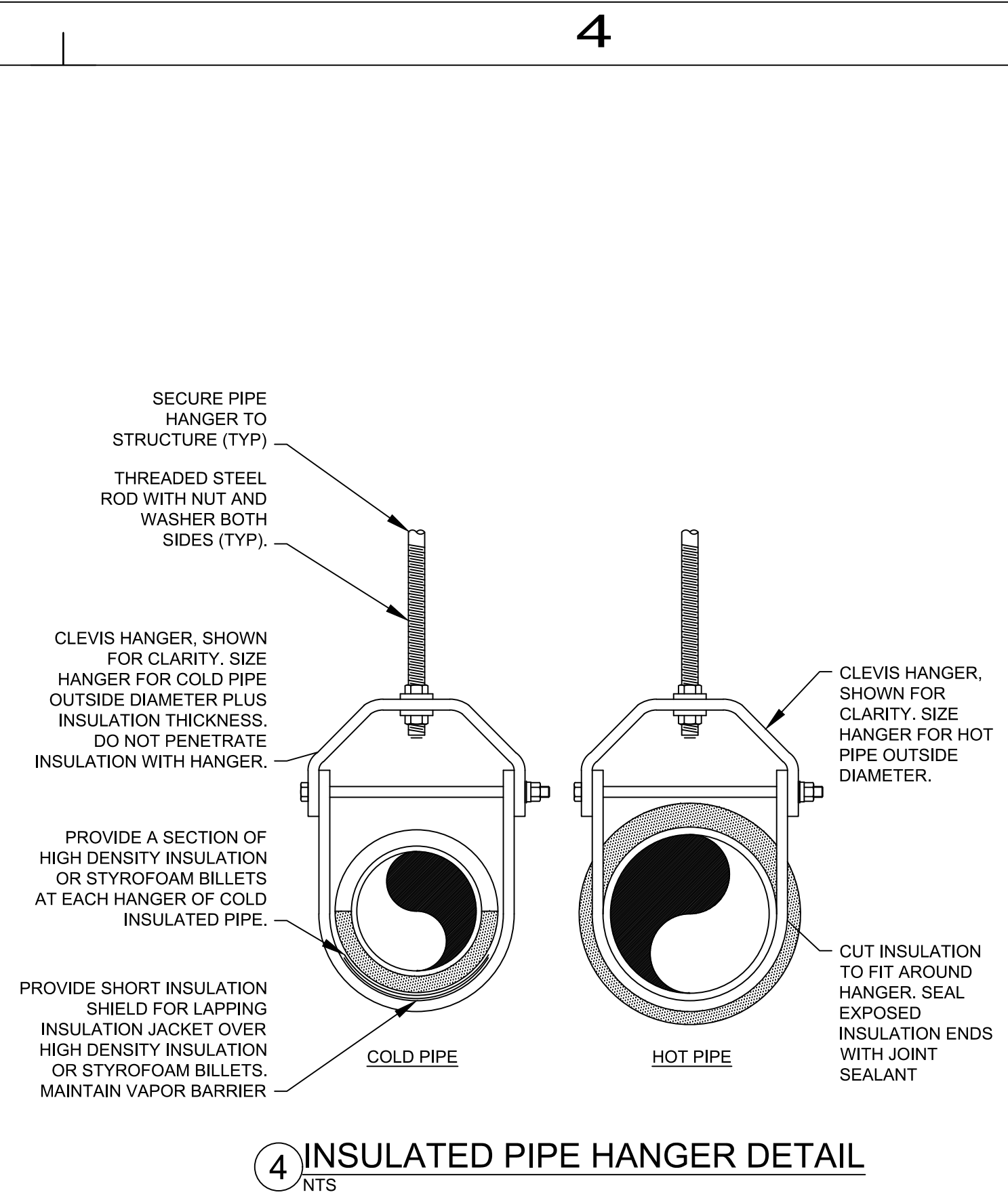
PROJECT	DATE	CHECKED/
PHASE		DRAWN BY
100%	03/15/2024	DG/NL

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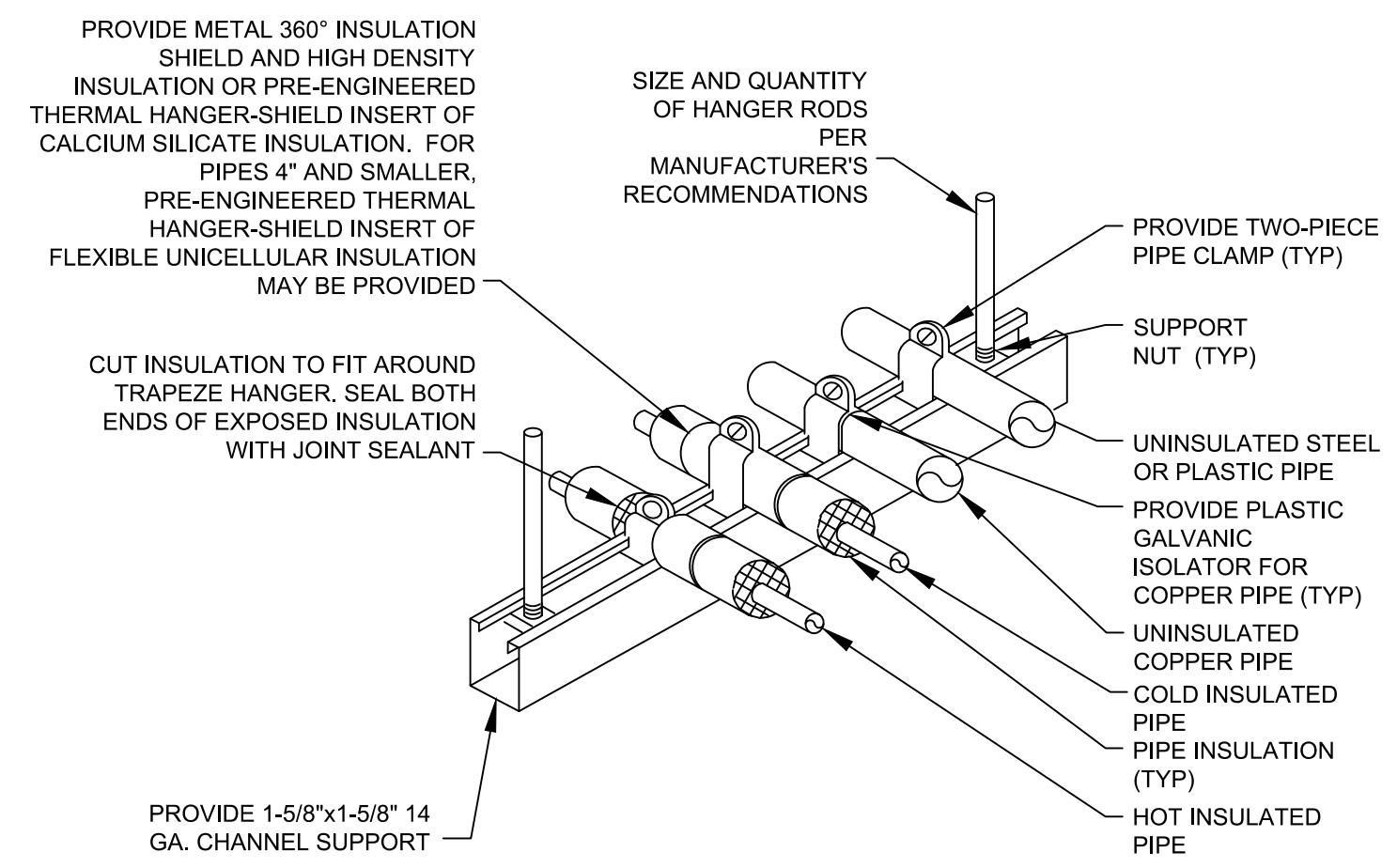
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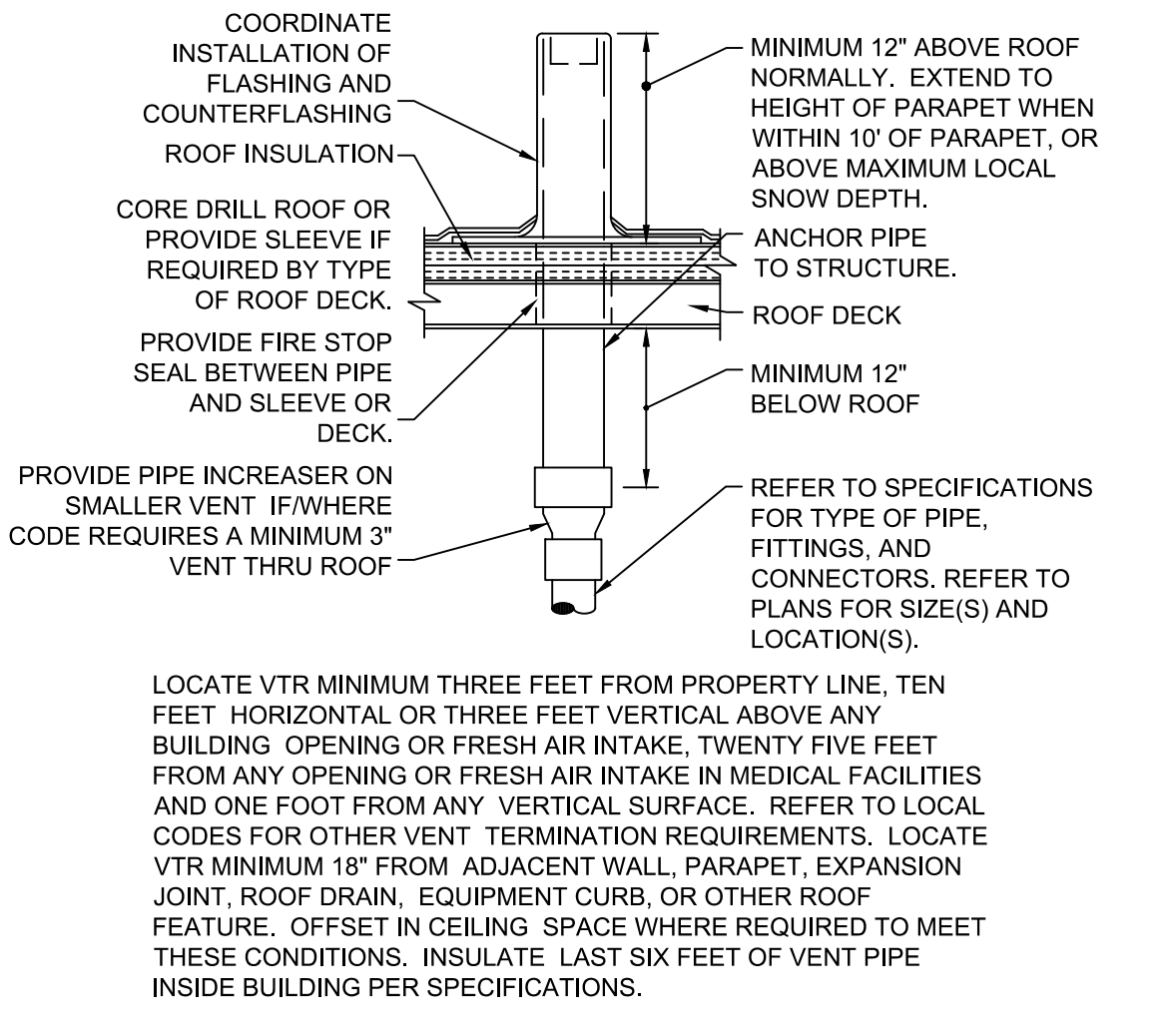
MEP ENGINEERS
https://EliteEngineering.Group
T: 786-354-8611
T: 803-367-2871



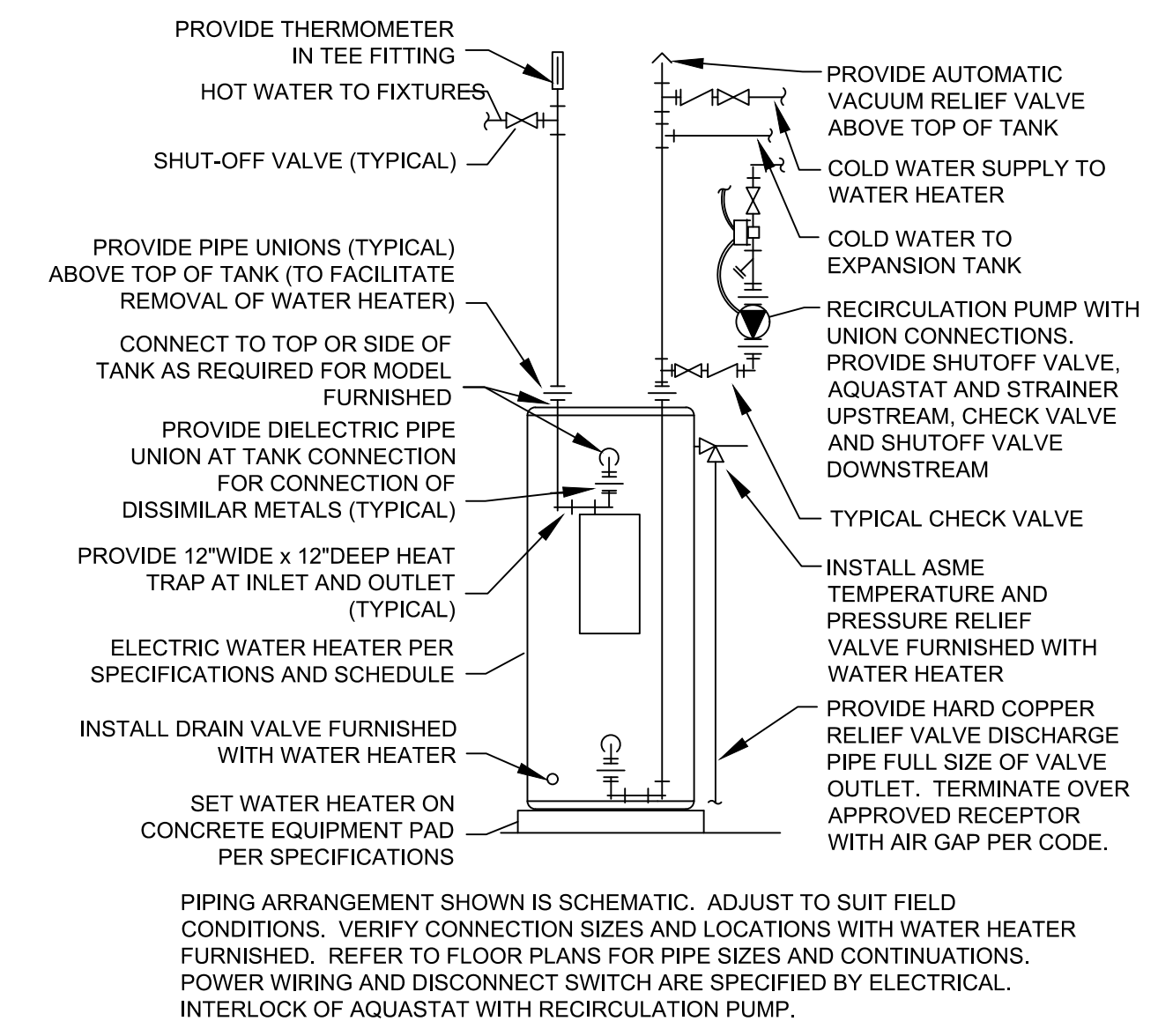
4 INSULATED PIPE HANGER DETAIL
NTS



3 TRAPEZE PIPE HANGER
NTS



2 VENT THRU ROOF
NTS



1 ELECTRIC WATER HEATER
NTS

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	DESCRIPTION	MIN CONNECTION SIZES (IN)				NOTES
			DCW	DRW	SAN	VENT	
MS-1	MOP SINK	CORNER FLOOR MOUNTED SINK: AMERICAN STANDARD 7741000.020 FAUCET: AMERICAN STANDARD 8344212.004	1/2	1/2	1 1/2	2	1-2
DF-1	DRINKING FOUNTAIN	WALL MOUNTED ELKAY EMBF7L8WSLK	1/2	-	1 1/2	2	1-2
FD-1	FLOOR DRAIN	6" ROUND CAST IRON WITH FUNNEL STRAINER ZURN Z415E	-	-	2	2	1-2
ICE-1	ICE MAKER	BY OWNER	1/2	-	-	-	1-2
KS-1	KITCHEN SINK	SINGLE BOWL 24"x22" FAUCET: AMERICAN STANDARD 7500170	1/2	1/2	1 1/2	2	1-2
LAV-1	LAVATORY	WALL HUNG SINK: AMERICAN STANDARD 4889004.020 FAUCET: ELKAY EMBF7L8WSLK	1/2	1/2	1 1/4	2	1-2
HW-1	HAND WASHING STATION	BRADLEY CORP-SN2004	1/2	1/2	1 1/2	2	1-2
US-1	UTILITY SINK	SINK: AMERICAN STANDARD 7692008 FAUCET: AMERICAN STANDARD 7500170	1/2	1/2	1 1/2	2	1-2
WC-1	WATER CLOSET	FLOOR MOUNTED AMERICAN STANDARD 3461.128	3/4	-	3	2	1-2
UR-1	URINAL	WALL MOUNTED AMERICAN STANDARD 6590.125	3/4	-	2	2	1-2

NOTES:
1 FIXTURE SCHEDULE IS THE BASIS OF DESIGN. APPROVED EQUALS WILL BE CONSIDERED UPON SUBMITTAL REVIEW.
2 PROVIDE ALL FIXTURES WITH INDIVIDUAL FIXTURE SHUT-OFF VALVES. VALVES TO BE FULL PORT QUARTER TURN BALL VALVES.

PUMP SCHEDULE

TAG	DESCRIPTION	GPM	HEAD (FT)	MFG	MODEL
CP-1	HOT WATER RECIRCULATING PUMP	8	8	TACO	009QGST4

AIR COMPRESSOR SCHEDULE

TAG	CFM @90 PSI	HP	TANK SIZE (GAL)	OUTLET SIZE (IN)	VOLT/PH	MFG	MODEL
AIR-1	14.3	5	60	3/4	208/3	INGERSOLL RAND	2340L5

ELECTRIC WATER HEATER

TAG	UEF	CAPACITY (GAL)	INPUT KW	NO. OF ELEMENTS	RECOVERY CAPACITY @72 DEG. F. (GPH)	MFG	MODEL	NOTES
EW-1	0.92	55	12.2	2	34	AO SMITH	DEN-52	1-8

NOTES:
1 WATER HEATER SHALL BE UL LISTED.
2 MUST MEET FLORIDA ENERGY CODE.
3 ELECTRICAL HEATING ELEMENTS SHALL BE MEDIUM WATT DENSITY WITH ZINC PLATED COPPER SHEATH.
4 EACH ELEMENT SHALL BE CONTROLLED INDIVIDUALLY.
5 PROVIDE WITH ELECTRICAL JUNCTION BOX.
6 PROVIDE WITH MINIMUM 3 YEAR WARRANTY.