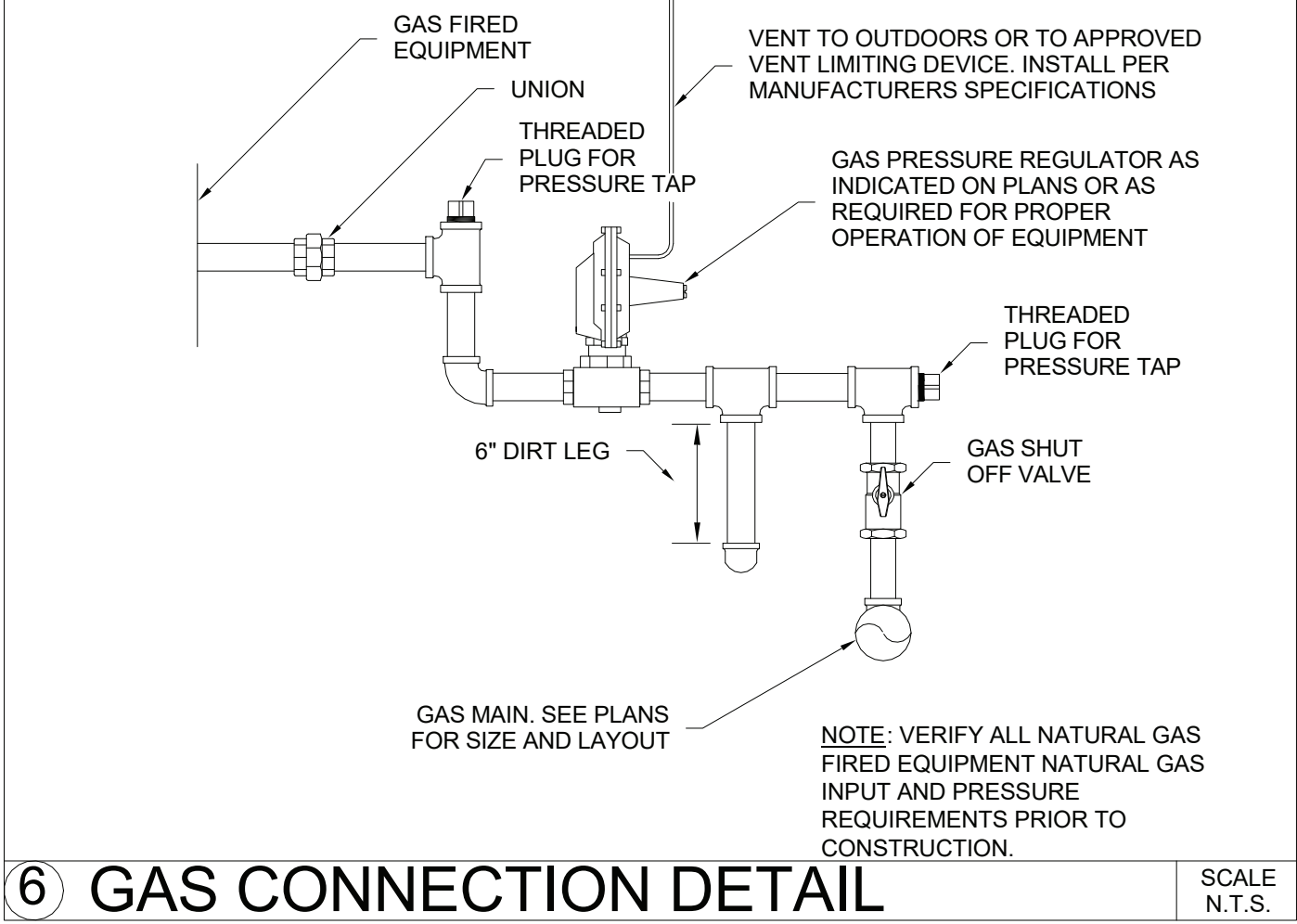
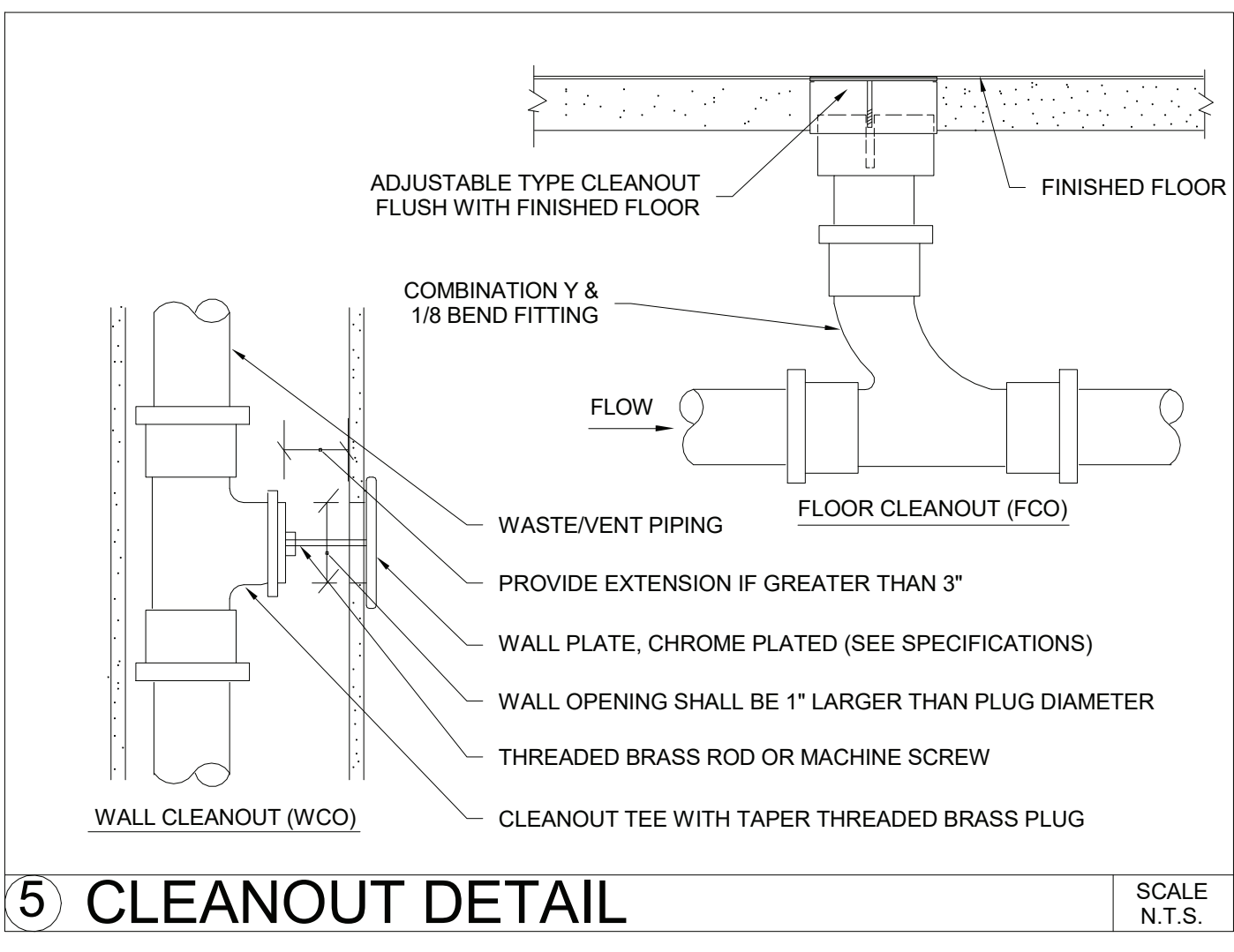
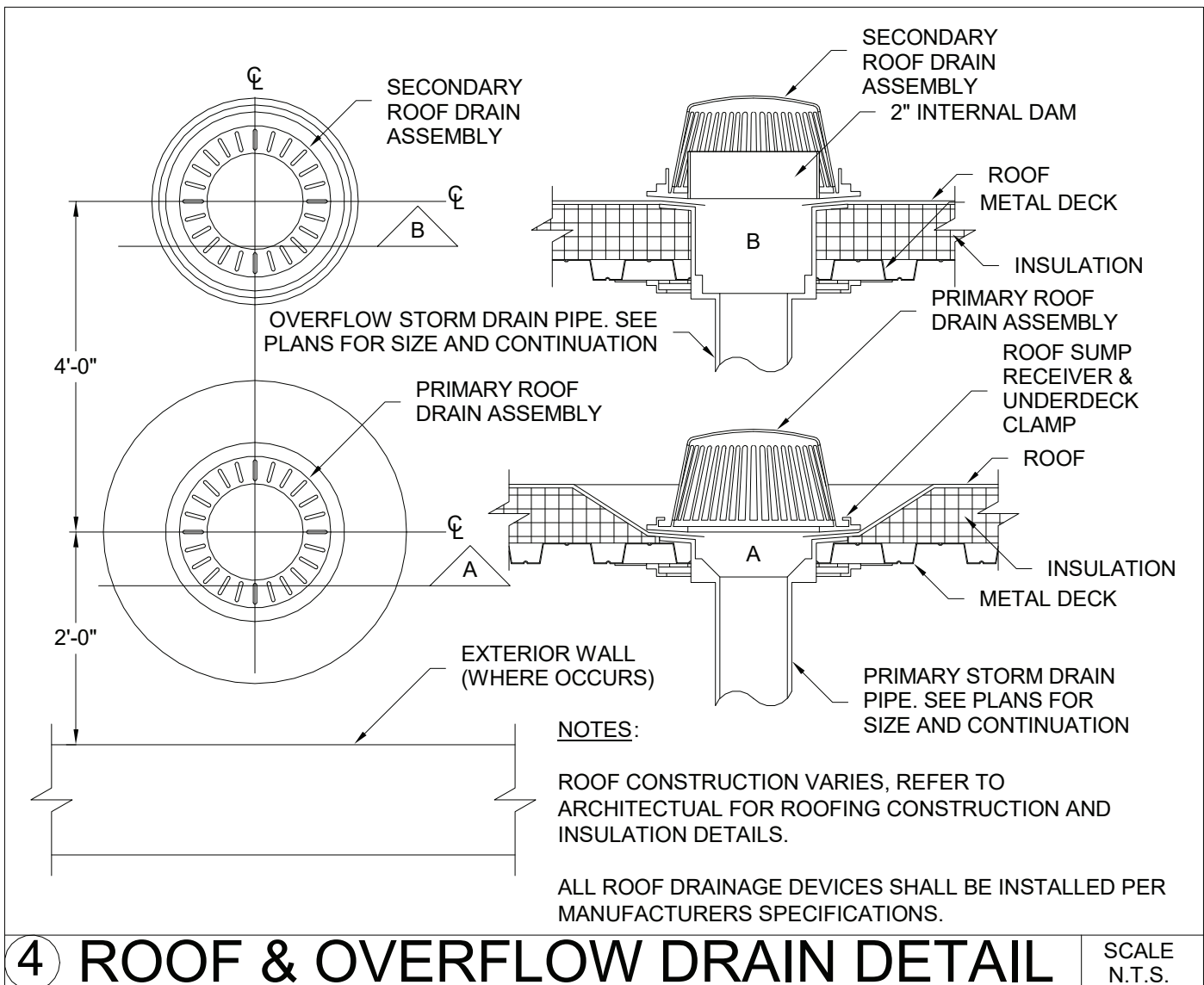
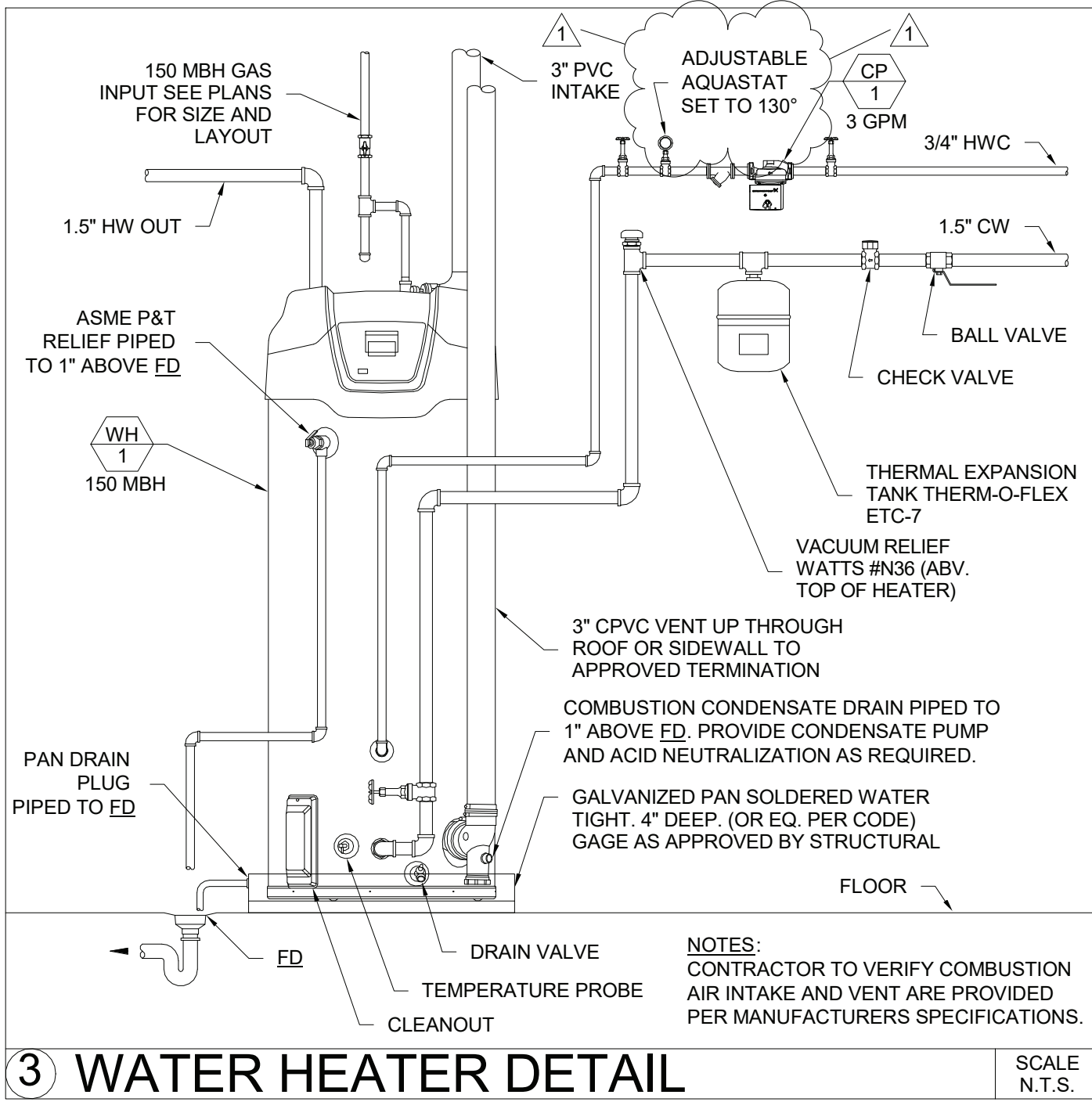
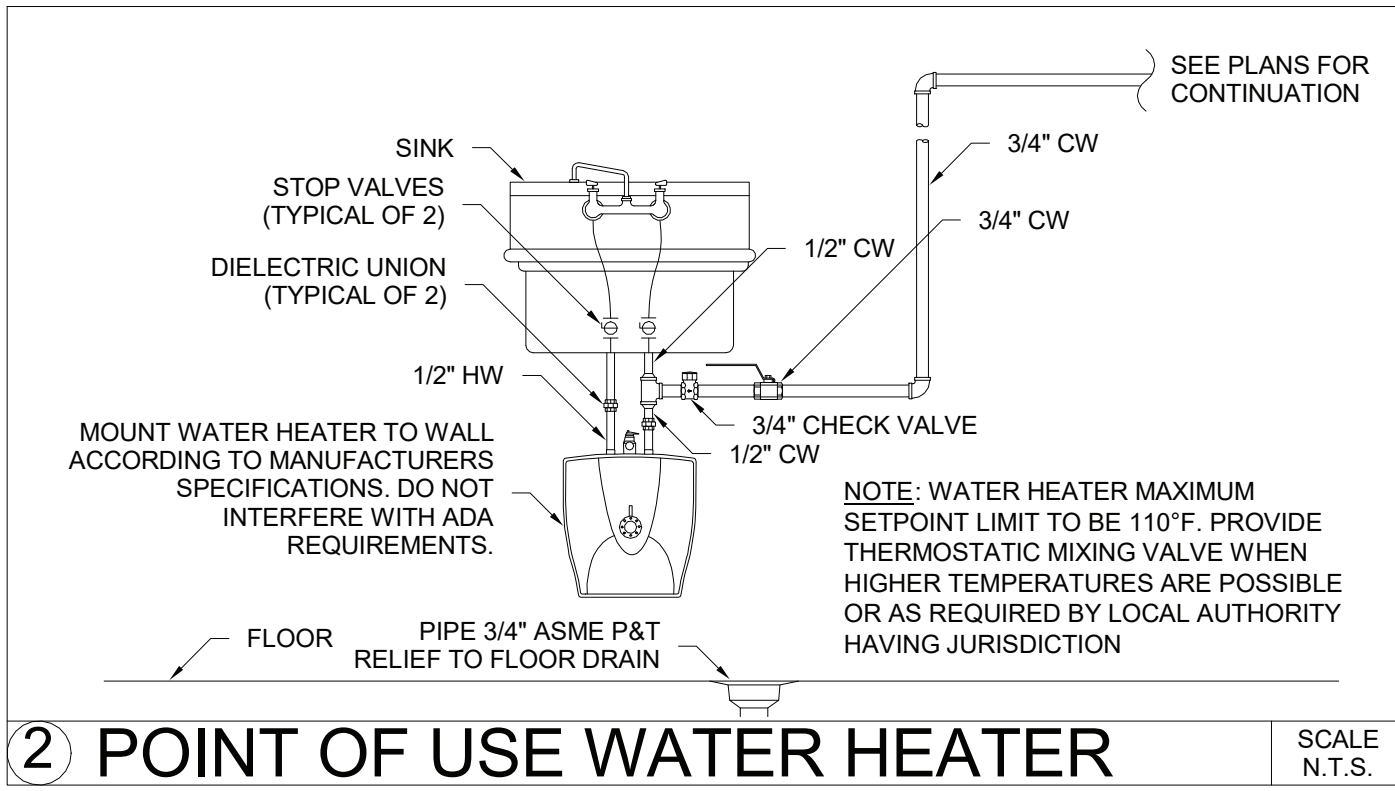
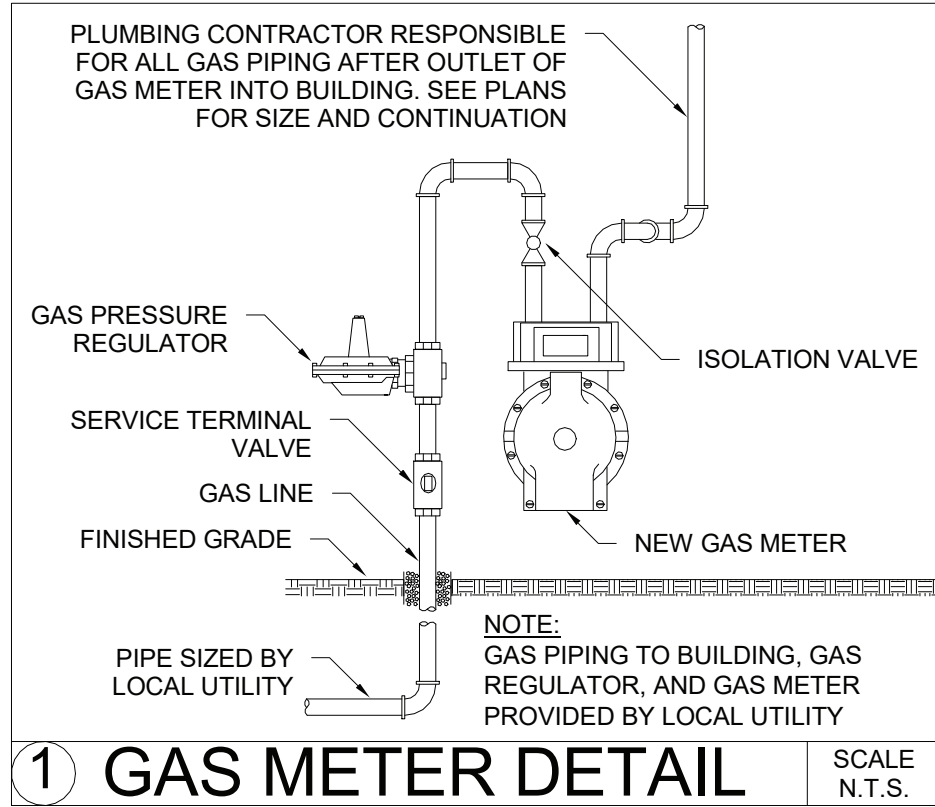


APPLICABLE CODES	
2020 BUILDING CODE OF NEW YORK STATE	
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE	
2020 MECHANICAL CODE OF NEW YORK STATE	
2020 PLUMBING CODE OF NEW YORK STATE	
2020 FUEL GAS CODE OF NEW YORK STATE	
2015 TENANT CONSTRUCTION REVIEW MANUAL	

SAND AND OIL SEPARATOR CALCULATIONS	
NUMBER OF PARKING SPACES	10
1-3 VEHICLES	6 CU. FT.
1 ADDITIONAL CU. FT. PER VEHICLE UP TO 10 VEHICLES	7 CU. FT.
0.15 ADDITIONAL CU. FT. PER VEHICLE ABOVE 10 VEHICLES	0 CU. FT.
CU. FT. REQUIREMENT	13 CU. FT.
GAL. REQUIREMENT	97 GAL.

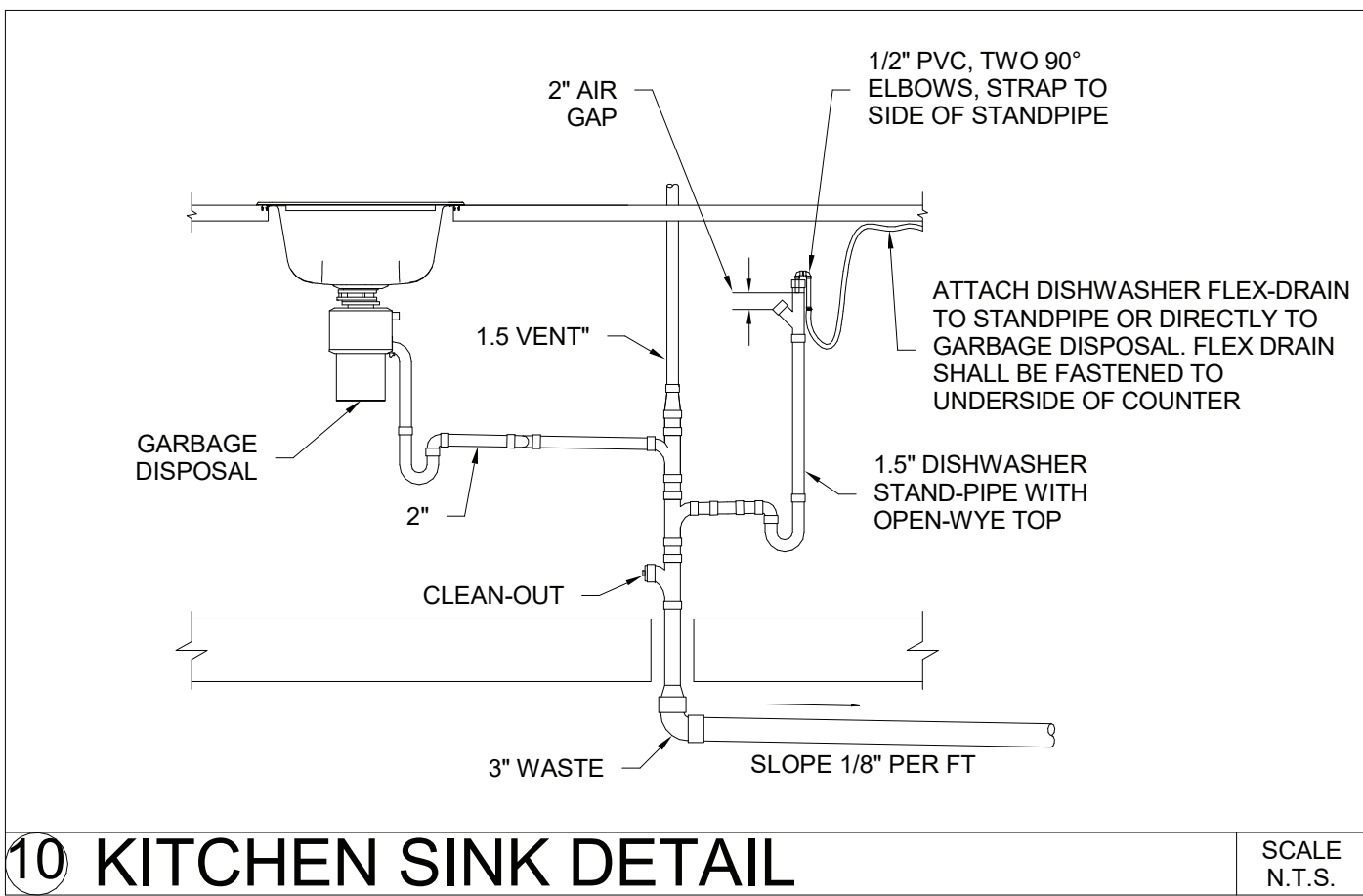
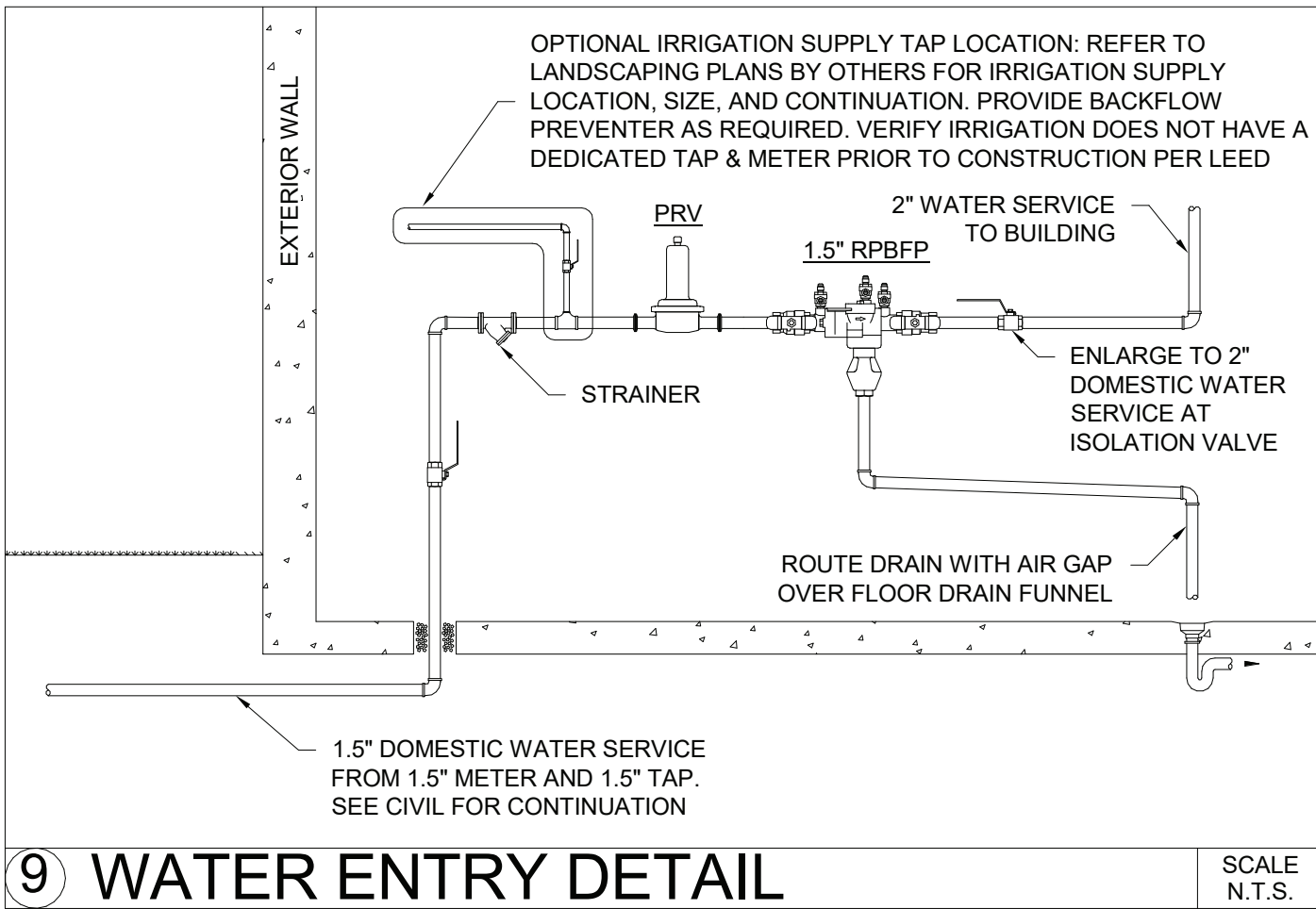
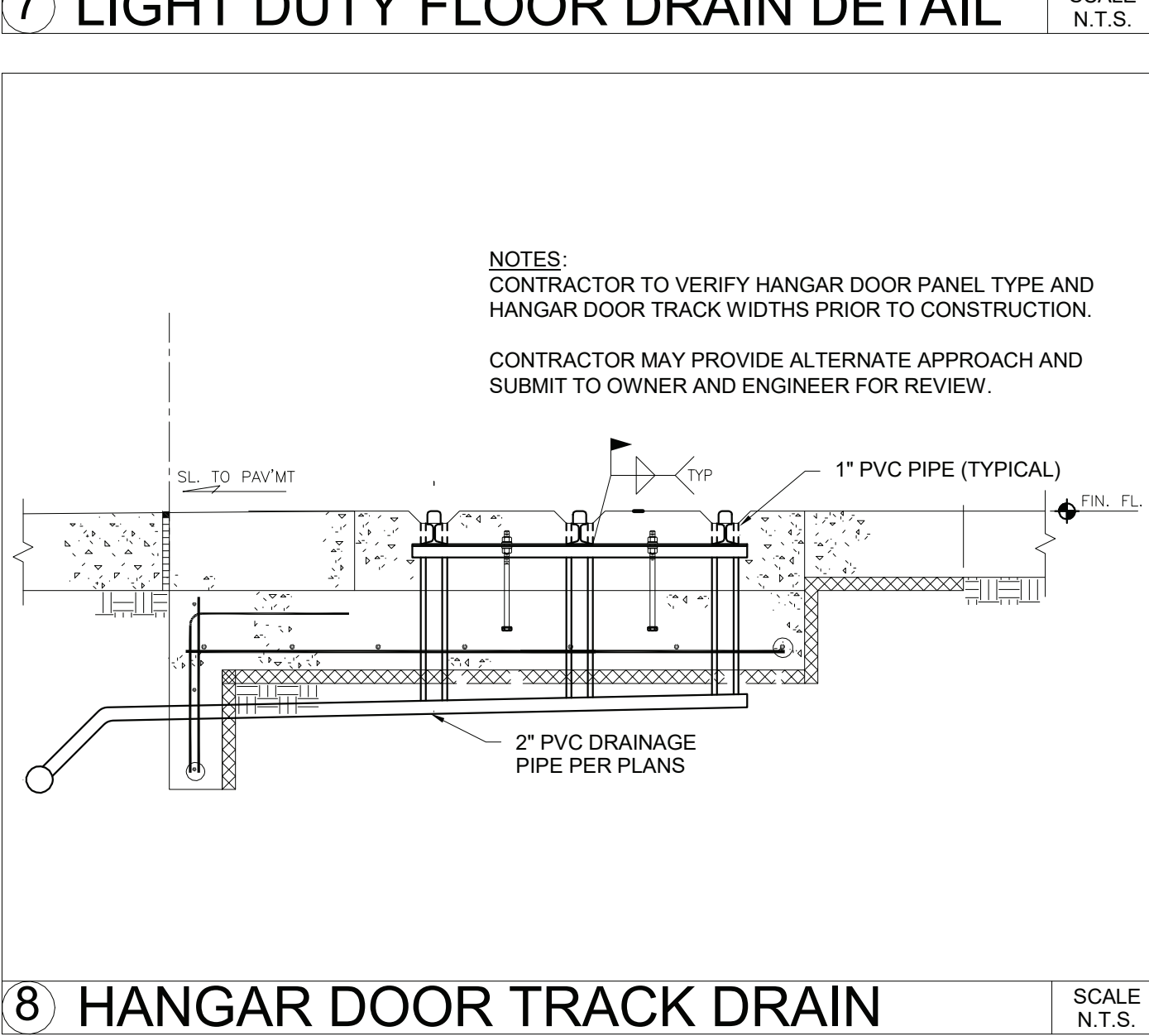
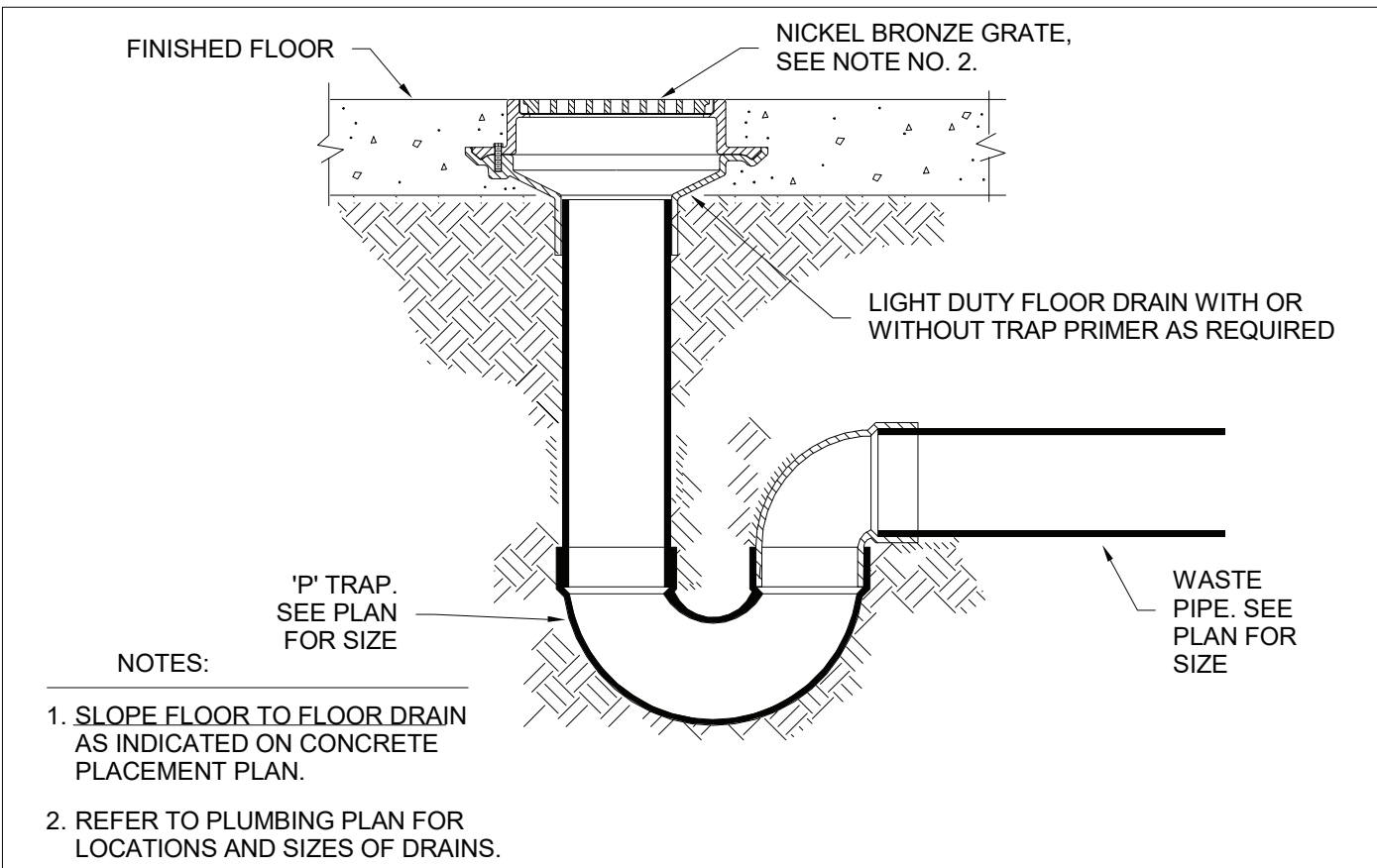
GREASE INTERCEPTOR CALCULATIONS (2018 UPC)			
FIXTURE	QUANTITY	DRAINAGE F.U.	TOTAL DRAINAGE F.U.
DISHWASHER	1	2.0	2.0
FLOOR DRAIN	1	2.0	2.0
COMMERCIAL SINK W/ FOOD WASTE	1	3.0	3.0
HAND SINK	1	2.0	2.0
TOTAL D.F.U. =			9.0
MINIMUM GREASE INTERCEPTOR SIZE (TABLE 1014.3.6) = 750			

SPECIFICATIONS	
1. Follow all Local and state codes/ordinances and general conditions of contract. Pay all required fees and obtain all required permits. Submit these plans to building department for plan review. Implement all code review required changes into installation.	
2. Equipment, insulation and controls shall be provided as required by the Adopted energy code.	
3. Visit site to verify existing conditions prior to ordering equipment, providing price quote or fabricating piping. Change orders for non-compliance will not be accepted.	
4. Plumbing drawings are schematic and not to be scaled. Refer to architectural, certified drawings, and site measurements for all dimensions prior to duct and piping fabrication.	
5. Contractor shall purchase, receive, uncrate, assemble, insure, and install in conformance to manufacturer's recommendations all Plumbing equipment. Plumbing Contractor shall install and final connect owner furnished equipment as indicated.	
6. Provide 2 operating manuals to owner and engineer for all systems and equipment including manufacturer's maintenance manuals. Include lubrication, filter types and sizes, starting and stopping procedures. List contractor's telephone numbers.	
7. Supports and anchors shall be provided for plumbing work. No chain, tape, or wire.	
8. Sleeves shall be provided for all pipe through walls, floors, and ceilings. Provide chrome plated escutcheons for piping penetrations in finished areas.	
9. Conceal all work in finished areas.	
10. Cut and patch to match adjacent areas. No structural member shall be cut or notched.	
11. Any pressure reducing valves should be arranged, tested, and maintained per FM Global Property Loss Prevention Data Sheet 3-11: Pressure Reducing Valves. Immediately after installation and once a year after that, conduct a full flow test on the valve. The annual performance Test Record of Pressure Reducing Valves Form (Form 2707 should be used for all full flow tests.	
12. Electrical: confirm voltage, phase, and ampacity with electrical contractor prior to ordering equipment. All 24v controls including interlock wiring for plumbing equipment by division 15 contractor. Provide magnetic starters for all 3-phase motors with protection on all three leads. Electrical equipment to automatically restart after power failure. All wire in conduit per NEC latest edition.	
13. Excavate for all mechanical work. Compact to 95% AASHO or proctor density in 6" maximum lifts at optimum moisture content. Rework if any settlement within first years guarantee.	
14. Valves shall be provided to isolate each piece of equipment and for all rough-ins excluding waste and vent. Water valves shall be Apollo ball valve line-size rated for 200 psig wog. Gas valves shall be AGA listed line-size lubricated.	
15. Waste and vent piping shall be cast iron no-hub listed for location installed. Schedule-40 plastic PVC may be used if code approved. Provide cleanouts 50'-0" min or of appropriate type inside buildings. Vent through roof with a total cross sectional area to equal to or greater than building sewer main shall be provided.	
16. Pipe each evaporative pan drain with p-trap 3/4" minimum to waste. Provide condensate pumps as required where gravity drain condensate is not possible. Provide condensate acid neutralization for all condensate drains to sanitary sewer.	
17. Water piping shall be type-L copper (or approved PEX piping and fittings where allowed by local codes) above grade with no-lead ASTM B32 solder and ASMT B813 flux soldered joint (or with Vega ProPress fittings where allowed by local codes). Buried piping or piping within 6" of grade shall be 15% silver silver-silver brazed joint type-K. Insulate all hot and cold water lines routed in ceiling or crawl space with 1/2" thick preformed fiberglass (1" for circulated Hot Water lines) with UL-181 class-1 plenum rated jacket. Route all piping inboard of building insulation to avoid freezing. Electric heat trace all piping located in unheated areas with Chromalox 7.0 watts/ft min cable and 1" thick fiberglass piping insulation with cover (do not route PEX piping in unheated areas).	
18. Insulate all horizontal roof drain piping with 1.5" fiberglass insulation with UL-181 class-1 plenum rated jacket.	
19. Pressure test all piping per code but to at least 150% max working pressure.	
20. Fire caulk fire rated wall/ceiling/floor penetrations with HILTI or equal listed fire caulk.	
21. Guarantee all labor and new equipment for one year from the date of acceptance by owner.	



PLUMBING FIXTURE SCHEDULE									
ITEM	FIXTURE	MANUFACTURER	MODEL NO.	CW	HW	WASTE	VENT	REMARKS	NOTES
WC1	WATER CLOSET - FLUSH VALVE	ZURN	Z5615	1"	-	3"	2"	1.1 GPF TRIM KIT, ZTR620X-ONE FLUSH VALVE, ZURN ZN1201-N WALL CARRIER	1, 5, 8, 10, 12
L1	LAVATORY	ELKAY	ELUH1511	1/2"	1/2"	1.5"	1.5"	ADA COMPLIANT, KOHLER TOUCHLESS K-7517-VS FAUCET 1.35 GPM, SLOAN ESD-410-SF SOAP DISPENSER	4, 7, 8, 10, 12, 15 (110 DEG F), ADA COMPLIANT
U1	URINAL	ZURN	Z5755	3/4"	-	2"	1.5"	WALL HUNG, ZURN ZER6003 SERIES BATTERY POWERED FLUSH VALVE, 0.125 GPF	2, 6, 10, 12, 17
S1	BREAK ROOM SINK	ZLINE	SR500-36	1/2"	1/2"	2"	1.5"	UNDERMOUNT, DELTA 9659-DST FAUCET (1.5 GPM), IN-SINK-ERATOR BADGER 5 (1/2 HP)	4, 7, 8, 10, 12, 15 (120 DEG F)
S2	HAND SINK - ADA	ZLINE	SUS-15 (SINGLE COMP.)	1/2"	1/2"	2"	1.5"	UNDERMOUNT, DELTA FAUCET 1903-DST	4, 7, 10, 12, 15 (110 DEG F), ADA COMPLIANT
PF	POT FILLER	ZLINE	GEM-FFP	3/4"	-	-	-	REFER TO ARCHITECTURAL FOR FINISH	
IMB	ICE MAKER WALL BOX	SIOUX CHIEF	696 Series OX Box	1/2"	-	-	-	ABS HOUSING, HAMMER ARRESTER, LEAD-FREE VALVE, ICE MAKER STANDARD PACK	PROVIDE FIRE RATED MODEL IF INSTALLED WITHIN FIRE RATED WALL OR PARTITION
CMB	COFFEE MAKER WALL BOX	SIOUX CHIEF	696 Series OX Box	1/2"	-	-	-	ABS HOUSING, HAMMER ARRESTER, LEAD-FREE VALVE, WATTS SD-3 DOUBLE-CHECK BACKFLOW PREVENTER, AND INLINE FILTER	PROVIDE FIRE RATED MODEL IF INSTALLED WITHIN FIRE RATED WALL OR PARTITION
DWB	DISHWASHER WALL BOX	SIOUX CHIEF	696 Series OX Box	-	1/2"	-	-	ABS HOUSING, HAMMER ARRESTER, LEAD-FREE VALVE	PROVIDE FIRE RATED MODEL IF INSTALLED WITHIN FIRE RATED WALL OR PARTITION
WB	WALL BOX	OX BOX	Washing Machine Standard Pack	1/2"	1/2"	3	1.5"	ABS HOUSING, SEPARATE DRAIN BOX FIRE RATED MODEL FOR FIRE RATED WALLS	20
S3	UTILITY SINK	ELKAY	B1C18X18X	1/2"	1/2"	1.5"	1.5"	FLOOR MOUNT, ELKAY LK940AT08L2H DECK FAUCET (1.5 GPM)	2, 4, 7, 8, 10, 11, 12
S4	UTILITY SINK	ULINE	H-8969R	1/2"	1/2"	1.5"	1.5"	FLOOR MOUNT, FACTORY PROVIDED FAUCET, PROVIDE AERATOR TO LIMIT FLOW TO 1.5 GPM	2, 4, 7, 8, 10, 11, 12
MS	MOP SINK	FIAT	TSB-100	1/2"	1/2"	3"	1.5"	FIAT 830-AA FAUCET WITH BRACE, PAIL HOOK (1.5 GPM)	6, 8, 10, 12
HC1	HOSE BIBB	WOODFORD	24P	1/2"	-	-	-	WITH VACUUM BREAKER	VERIFY LOCATION
HC2	HOSE BIBB (FREEZE-PROOF)	WOODFORD	B67	3/4"	-	-	-	FLUSH NON-FREEZE BOX TYPE, ALL BRASS WITH ROUGH BRASS BOX COVER, SELF DRAINING BODY W/ DOUBLE CHECK BACKFLOW PREVENTER	VERIFY LOCATION
TD	TRENCH DRAIN	NEENAH FOUNDRY	R-4990-BA (GRATE)	-	-	-	-	AIRCRAFT RATED, GRAY IRON CLASS 35 GRATE WITH EPOXY COATING	REFER TO STRUCTURAL FOR TRENCH DRAIN DETAILS
FS1	FLOOR SINK	ZURN	Z1901	-	-	3"	1.5"	4" DEEP SEAL TRAP, 12X12, ACID RESISTANT, DOME STRAINER, FULL GRATE	16
FS2	FLOOR SINK	ZURN	Z1901	-	-	3"	1.5"	4" DEEP SEAL TRAP, 12X12, ACID RESISTANT, DOME STRAINER, HALF GRATE	16
FD	FLOOR DRAIN	ZURN	Z400 TYPE N	-	-	SEE PLAN	SEE PLAN	DEEP SEAL TRAP, BRASS GRATE	16
SH	SHOWER - TILE WALLS (ADA)	AQUATIC	SB6036	1/2"	1/2"	2"	1.5"	ADA COMPLIANT, KOHLER K-304 MIXING VALVE (120 DEG F), HANDHELD KOHLER ADA SHOWERING PACKAGE (1.5 GPM), SHOWER DRAIN	14, 16, GRAB BARS AND SEAT, SHOWER DRAIN, 60"x36" PAN (VERIFY WITH ARCH)
ESH	EMERGENCY SHOWER/EYE WASH	ULINE	H-10735	1"	1"	-	-	PROVIDE WITH MIXING VALVE (70 DEG F), COMPLY WITH ANSI Z358.1-2009 STANDARD	
DF	DRINKING FOUNTAIN	ELKAY	EZWS-EDFPBM117K	1/2"	-	1.5"	1.5"	HILLOW WATER COOLER, 370 W, 4.0 FLA EZH20 BOTTLE FILLING STATION	2, 10, 12
RBFP	BACKFLOW PREVENTER	WATTS	LF009	-	-	-	-	REDUCED PRESSURE TYPE, TWO CHECK VALVES, ONE RELIEF VALVE, INLET/OUTLET VALVES, STRAINER, TEST COCK, DRAIN FUNNEL	UNIT SHALL HAVE ASSE APPROVAL
PRV	PRESSURE REDUCING VALVE	WATTS	LF223	-	-	-	-	PILOT-OPERATED, BRASS, LEAD FREE	NSF/ANSI 372
RD	ROOF DRAIN	ZURN	Z121	-	-	SEE PLAN	-	CAST IRON DOME STRAINER, 12"D	
OD	OVERFLOW DRAIN	ZURN	Z121	-	-	SEE PLAN	-	CAST IRON DOME STRAINER, 2" EXTERNAL DAM FOR OVERFLOW, 12"D	
WH 1	WATER HEATER	STATE	SUF100 150NE	1.5"	1.5"	-	-	100 GALLON, 150 MBH S.L. NATURAL GAS INPUT SEE DETAIL, 120V/1P, 27.75" DIA X 75.5" H	12, 13, 3" PVC COMBUSTION AIR INTAKE AND CPVC VENT SET TEMPERATURE TO 140 DEG F
WH 2	WATER HEATER	STATE	GTS-910-NIEA	1"	1"	-	-	TANKLESS, 0.5 GPM MINIMUM, 380 MBH S.L. NATURAL GAS INPUT, 120V/1P, 25"X13"X25"H	12, 15, 5" PVC COMBUSTION AIR INTAKE AND CPVC VENT
WH 3	WATER HEATER	STATE	ES6 2 SSUS K	3/4"	3/4"	-	-	2.5 GALLON, 1.5 KW ELECTRICAL INPUT SEE DETAIL, 120V/1P, 13.75" L X 11"D X 13.75" H	12, 13
CP 1	CIRCULATION PUMP	GRUNDFOS	UP 15-10 B7	-	1/2"	-	-	3 GPM @ 3 FT HD, 115V/1P, 1/25 HP, BRASS HOUSING, SS IMPELLER, SEE DETAIL	
SOI 1	SAND-OIL INTERCEPTOR	PRE-CAST	1500 GALLON	-	-	6"	3"	1500 GALLON	
GI 1	GREASE INTERCEPTOR	PRE-CAST	800 GALLON	-	-	3"	3"	800 GALLON	

NOTES: 1 - Open Front Seat 2 - Wall Carrier 3 - UL Listed Trap Primer With VAC Breaker 4 - Handicap Trap Wrap 5 - Bolt Caps 6 - Vacuum Breaker 7 - Chrome Plated Cast Brass P-Trap With Clean-Out 8 - Open Grid Drain 9 - Pop-Drain 10 - Angle Supply With Stops 11 - 1/2 GPM Flow Limiters 12 - Anchors, Supports Trim Complete 13 - UL and AGA Listed, Reg Stat. High Limit Safety, ASME P&T Relief To Drain, ASHRAE 90A80 Insulation 14 - 2.5 GPM Flow Limiters 15 - Provide Thermostatic Mixing Valve 16 - Provide UL Listed Trap Primer With VAC Breaker or ASSE Certified Trap Seal Where Required 17 - Water Hammer Arrestor (HA1), Sioux Chief Hydra-Restor Part No. 652-AS, 1/2" male sweat, 1-11 water supply units



HDg
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WINTER PARK, FL 32789
(PH) 407-739-9000

THOMPSON
ENGINEERING
8201 SHAFFER PARKWAY
SUITE A
LITTLETON, COLORADO 80127
303.991.0991
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MARK	DESCRIPTION	DATE
	PERMIT COMMENTS	06/28/2024

Key Plan

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HANGAR

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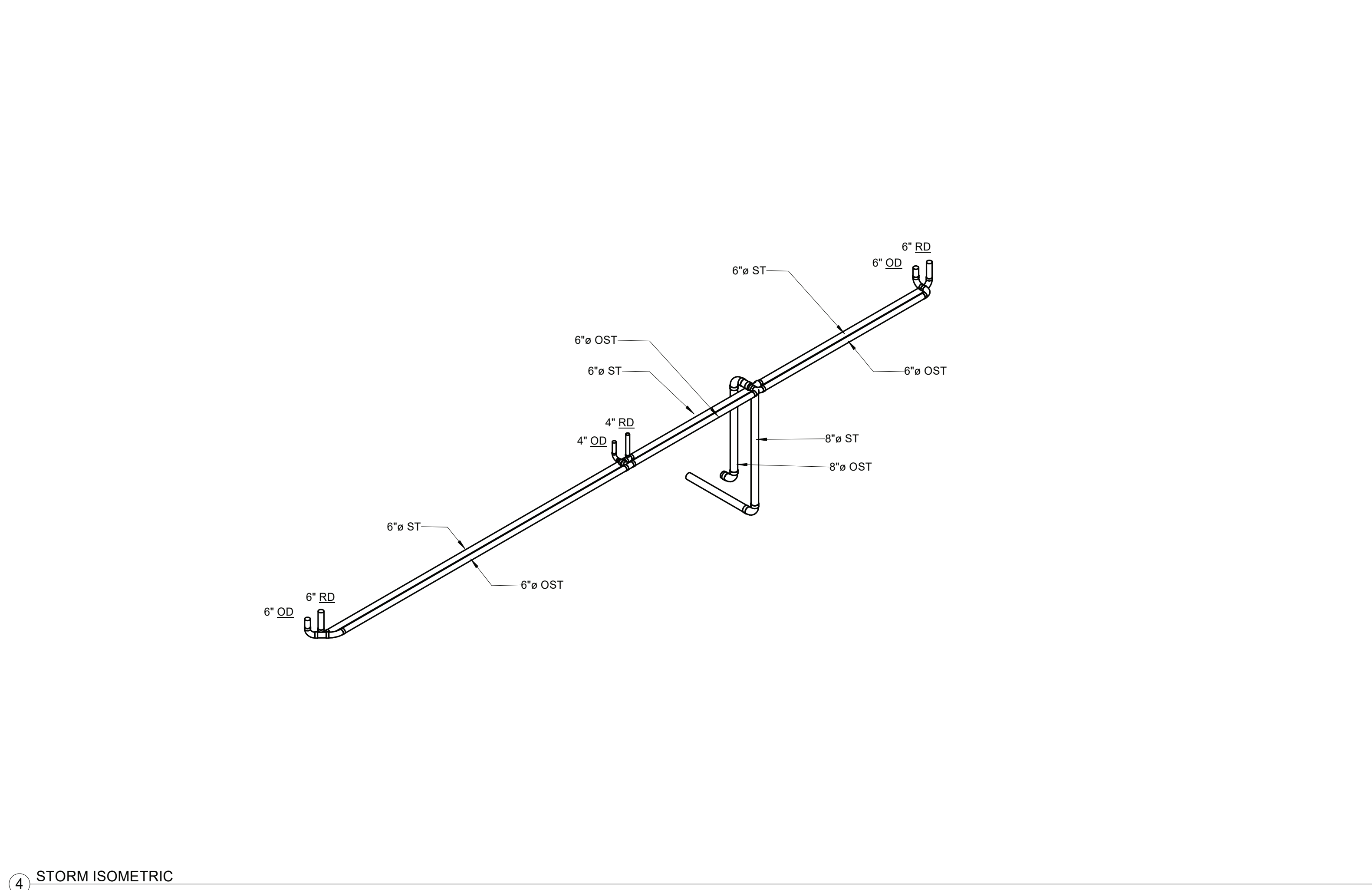
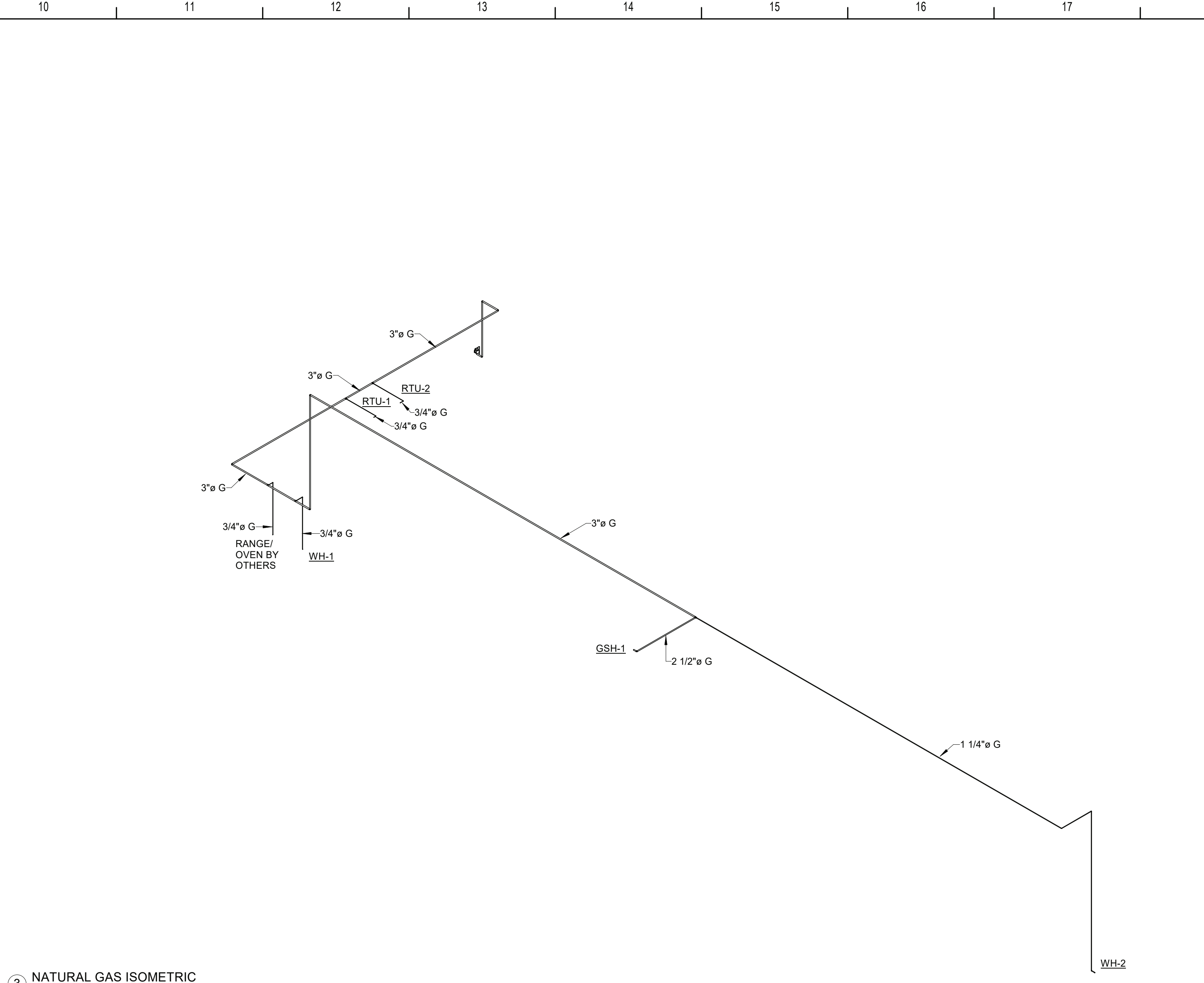
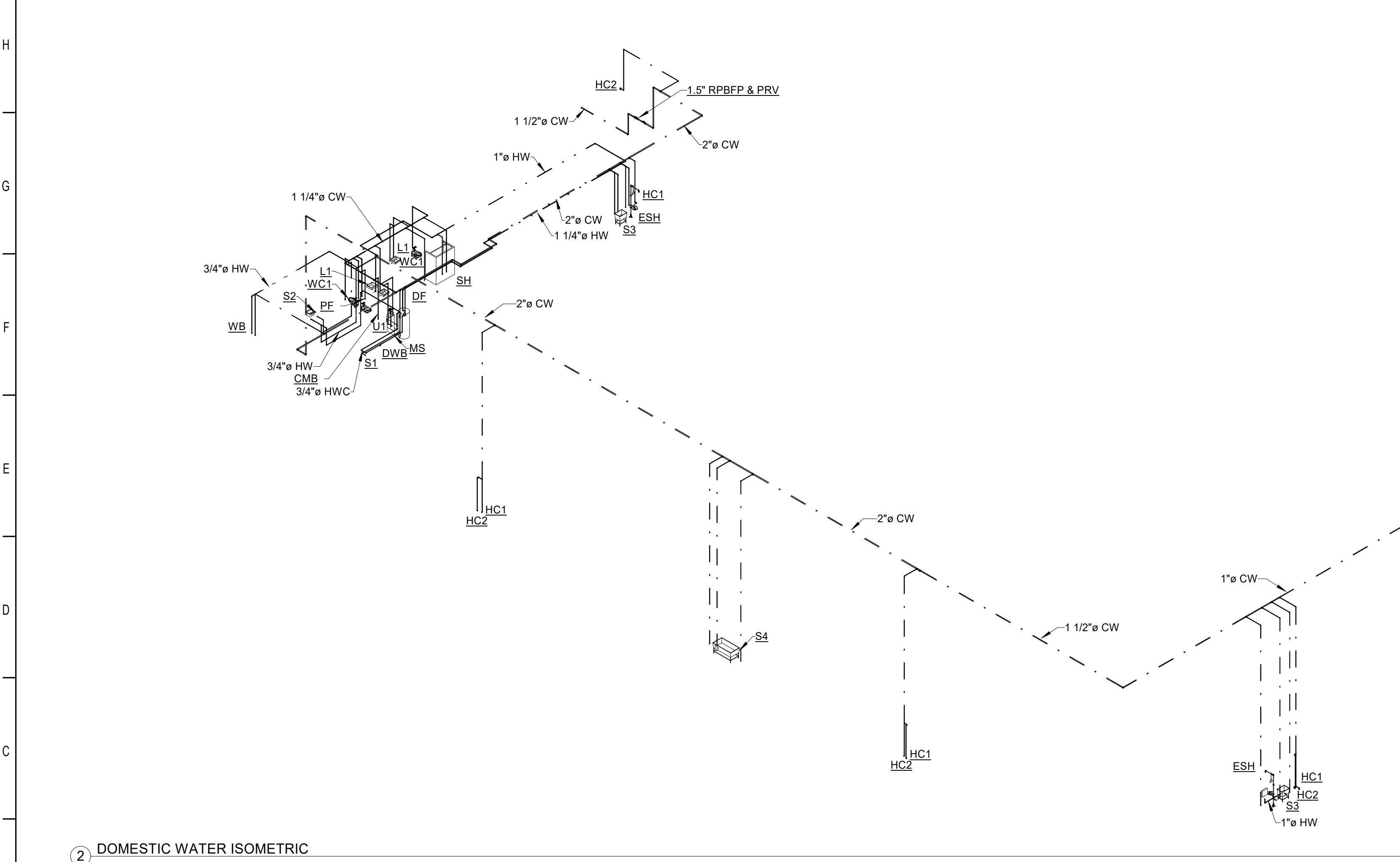
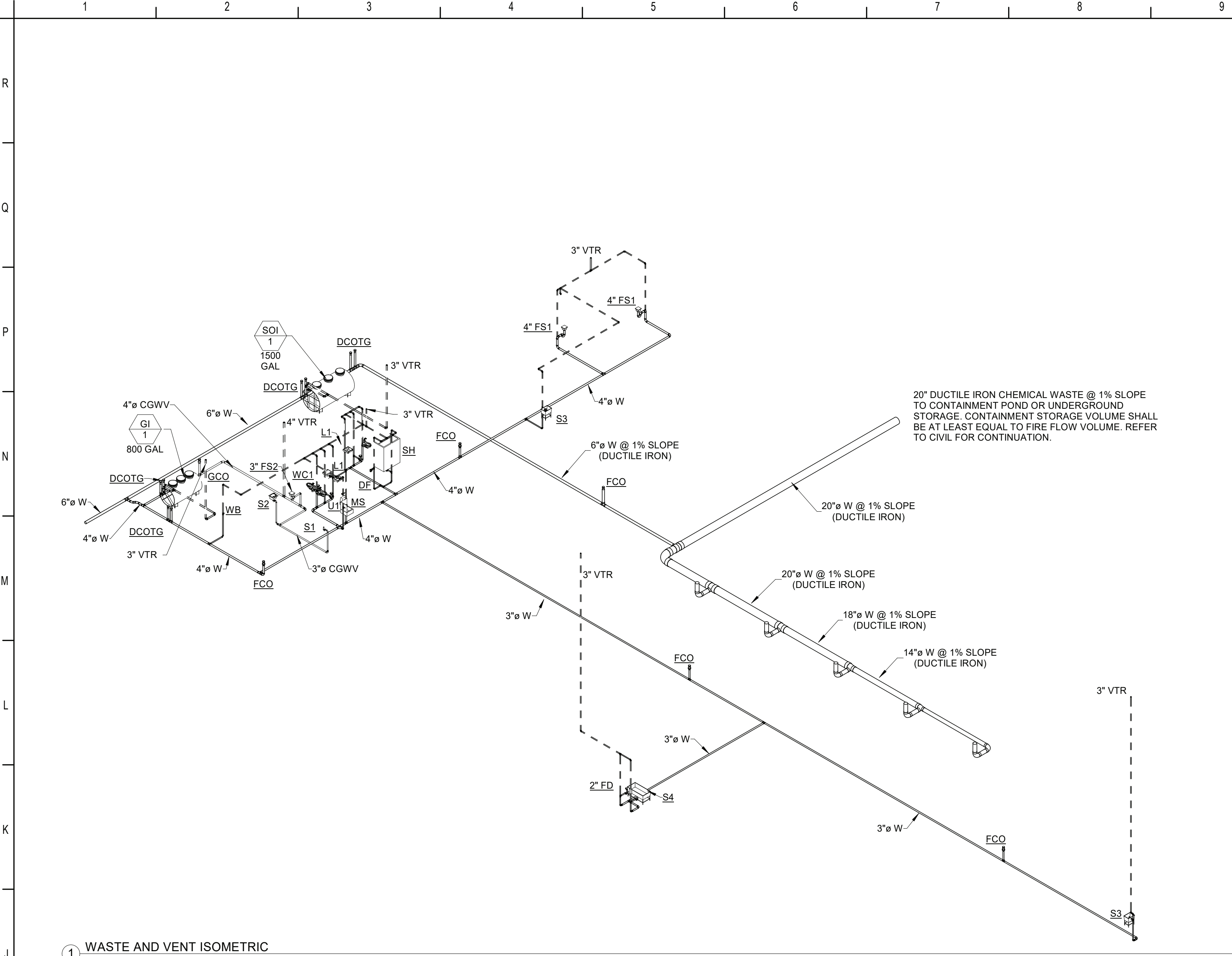
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PLUMBING DETAILS AND
SCHEDULES

P001

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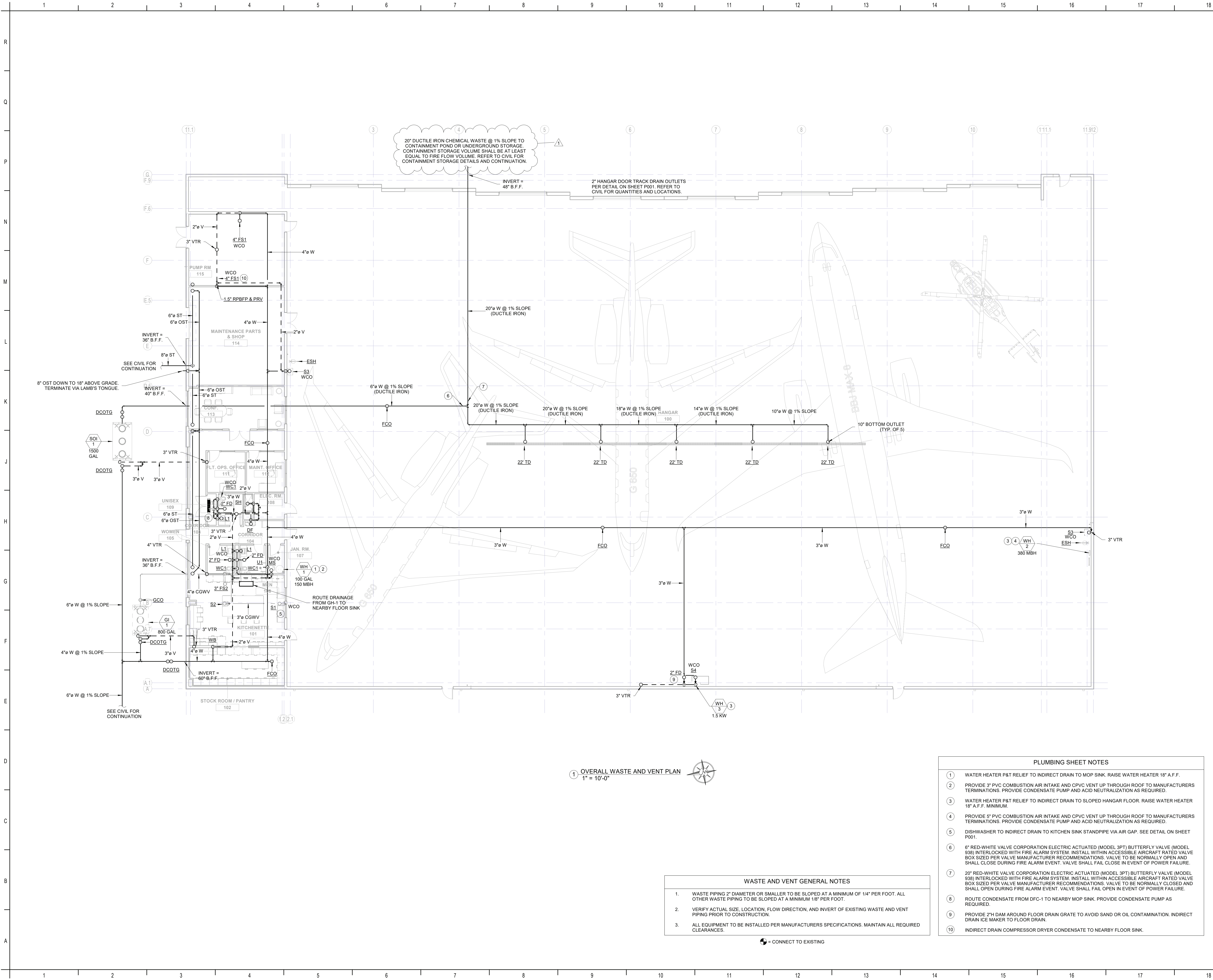
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PIPING DIAGRAMS



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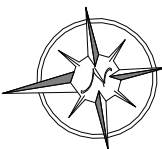
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OVERALL WASTE AND VENT
PLAN

P100

100% PERMIT SET

1 OVERALL WASTE AND VENT PLAN
1" = 10'-0"



WASTE AND VENT GENERAL NOTES

- WASTE PIPING 2" DIAMETER OR SMALLER TO BE SLOPED AT A MINIMUM OF 1/4" PER FOOT. ALL OTHER WASTE PIPING TO BE SLOPED AT A MINIMUM 1/8" PER FOOT.
- VERIFY ACTUAL SIZE, LOCATION, FLOW DIRECTION, AND INVERT OF EXISTING WASTE AND VENT PIPING PRIOR TO CONSTRUCTION.
- ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. MAINTAIN ALL REQUIRED CLEARANCES.

CONNECT TO EXISTING

PLUMBING SHEET NOTES

- WATER HEATER P&T RELIEF TO INDIRECT DRAIN TO MOP SINK. RAISE WATER HEATER 18" A.F.F.
- PROVIDE 3" PVC COMBUSTION AIR INTAKE AND CPVC VENT UP THROUGH ROOF TO MANUFACTURERS TERMINATIONS. PROVIDE CONDENSATE PUMP AND ACID NEUTRALIZATION AS REQUIRED.
- WATER HEATER P&T RELIEF TO INDIRECT DRAIN TO SLOPED HANGAR FLOOR. RAISE WATER HEATER 18" A.F.F. MINIMUM.
- PROVIDE 5" PVC COMBUSTION AIR INTAKE AND CPVC VENT UP THROUGH ROOF TO MANUFACTURERS TERMINATIONS. PROVIDE CONDENSATE PUMP AND ACID NEUTRALIZATION AS REQUIRED.
- DISHWASHER TO INDIRECT DRAIN TO KITCHEN SINK STANDPIPE VIA AIR GAP. SEE DETAIL ON SHEET P001.
- 6" RED-WHITE VALVE CORPORATION ELECTRIC ACTUATED (MODEL 3PT) BUTTERFLY VALVE (MODEL 938) INTERLOCKED WITH FIRE ALARM SYSTEM. INSTALL WITHIN ACCESSIBLE AIRCRAFT RATED VALVE BOX SIZED PER VALVE MANUFACTURER RECOMMENDATIONS. VALVE TO BE NORMALLY OPEN AND SHALL CLOSE DURING FIRE ALARM EVENT. VALVE SHALL FAIL CLOSE IN EVENT OF POWER FAILURE.
- 20" RED-WHITE VALVE CORPORATION ELECTRIC ACTUATED (MODEL 3PT) BUTTERFLY VALVE (MODEL 938) INTERLOCKED WITH FIRE ALARM SYSTEM. INSTALL WITHIN ACCESSIBLE AIRCRAFT RATED VALVE BOX SIZED PER VALVE MANUFACTURER RECOMMENDATIONS. VALVE TO BE NORMALLY CLOSED AND SHALL OPEN DURING FIRE ALARM EVENT. VALVE SHALL FAIL OPEN IN EVENT OF POWER FAILURE.
- ROUTE CONDENSATE FROM DFC-1 TO NEARBY MOP SINK. PROVIDE CONDENSATE PUMP AS REQUIRED.
- PROVIDE 2" DH AM ROUND FLOOR DRAIN GRATE TO AVOID SAND OR OIL CONTAMINATION. INDIRECT DRAIN ICE MAKER TO FLOOR DRAIN.
- INDIRECT DRAIN COMPRESSOR DRYER CONDENSATE TO NEARBY FLOOR SINK.



SEAL

STATE OF NEW YORK
 RICHARD ALLAN SABA
 LICENSED PROFESSIONAL ENGINEER
 100892
 06/28/2024

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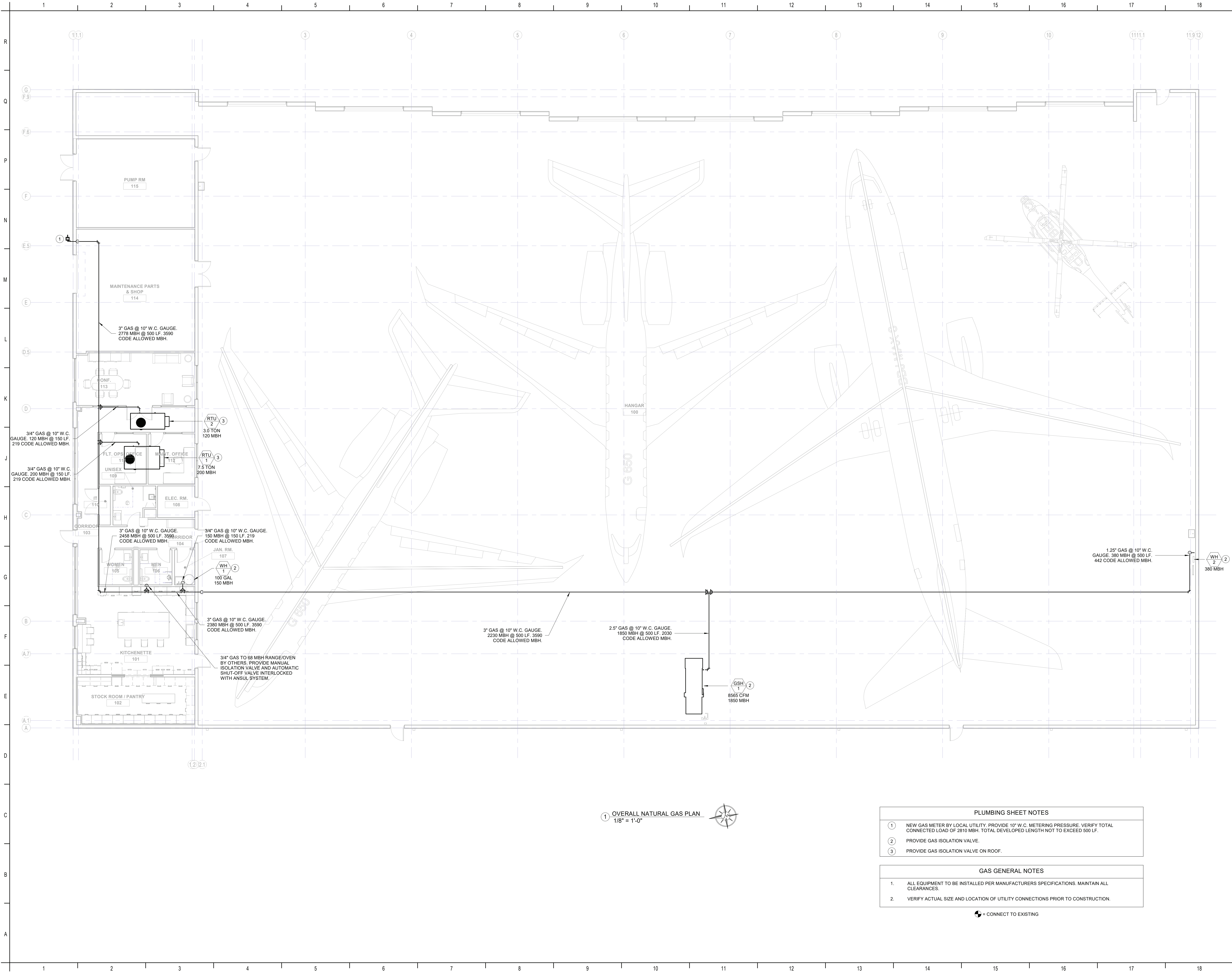
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OVERALL DOMESTIC WATER PLAN

P200

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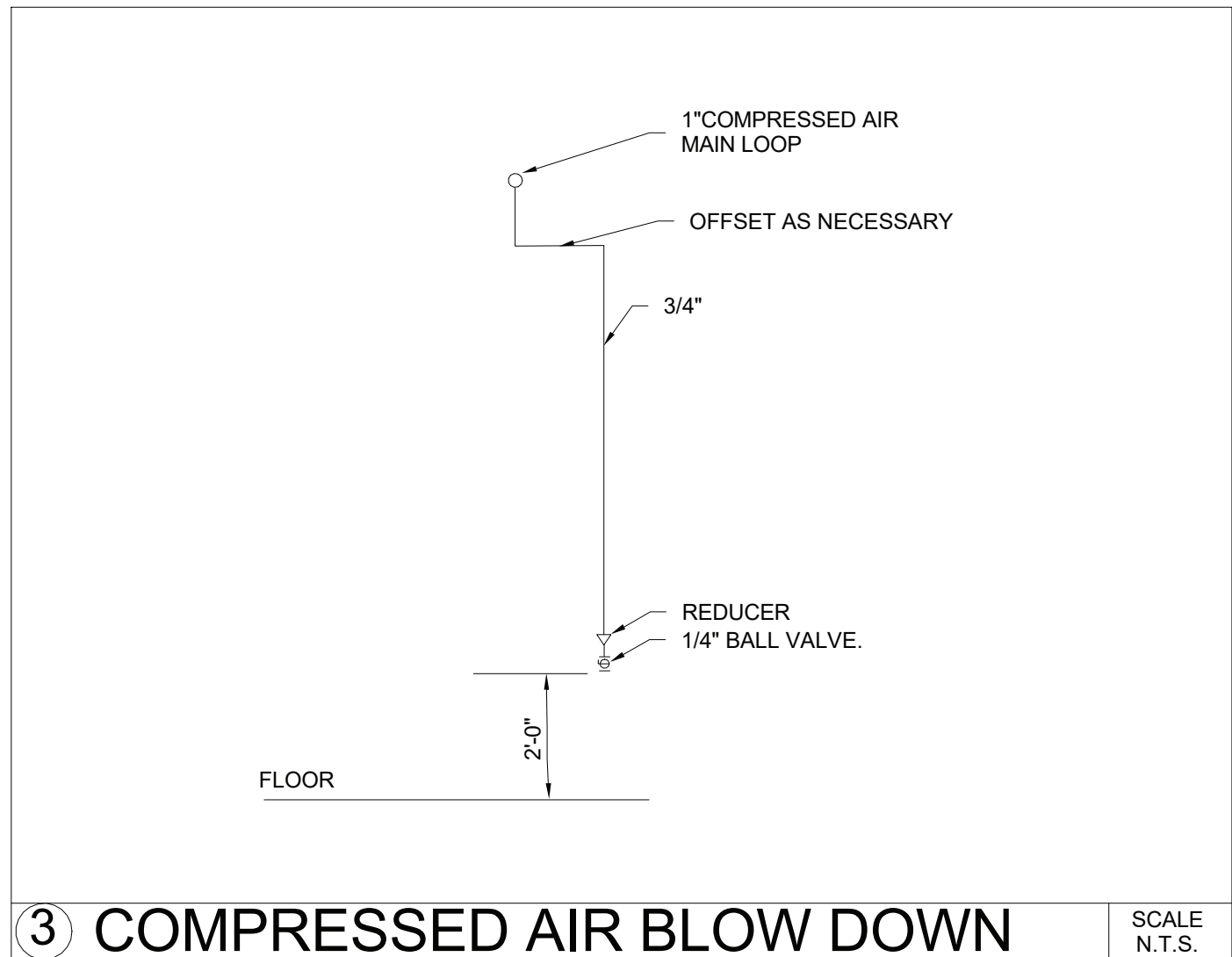
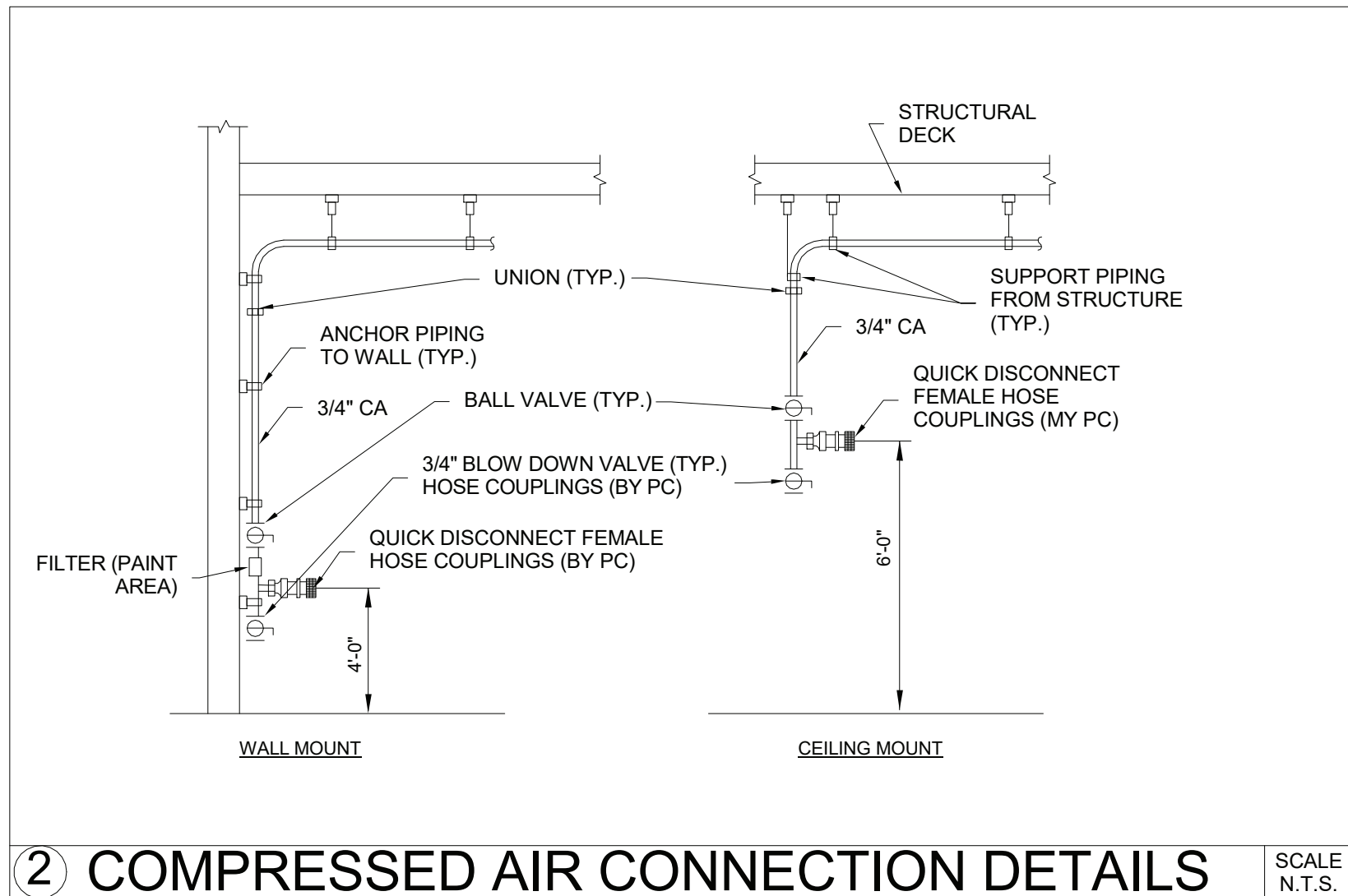
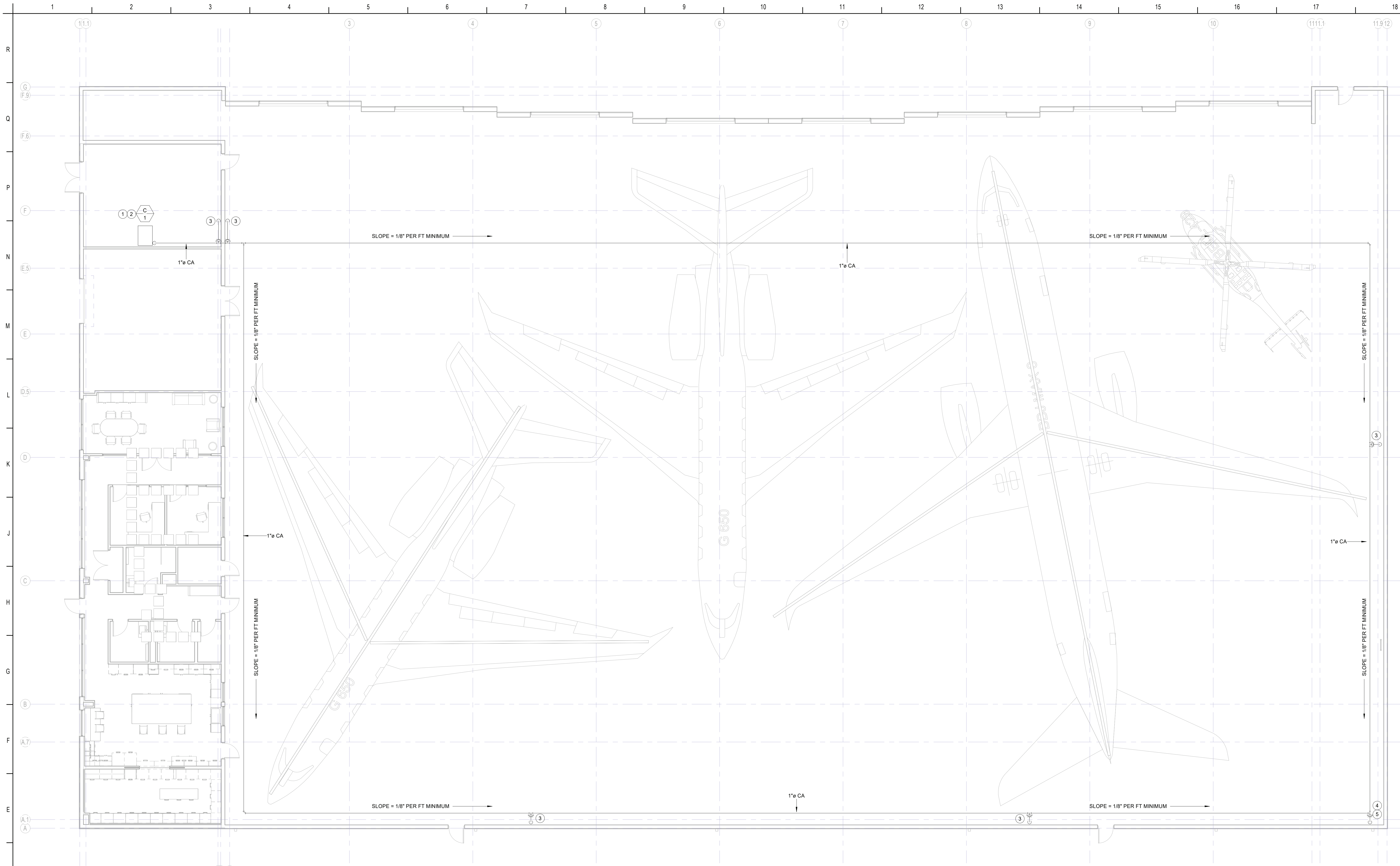
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OVERALL NATURAL GAS PLAN

P300

100% PERMIT SET



1 OVERALL PNEUMATIC PLAN
1/8" = 1'-0"

COMPRESSED AIR EQUIPMENT SCHEDULE	
EQUIPMENT TAG	MODEL NO., DESCRIPTION, ACCESSORIES
C 1	KAESER MODEL SM 7.5 AIRCENTER, ROTARY SCREW, INTEGRATED DRYER, INTEGRATED FILTER, INTEGRATED RECEIVER, 26.5 SCFM @ 160 PSI GAUGE PRESSURE, DESIGNED FOR 500 FT ELEVATION 7.5 HP, 240V-3 PHASE

- PLUMBING SHEET NOTES
- COORDINATE FINAL COMPRESSOR LOCATION WITH OWNER, ARCHITECT, AND ALL TRADES. PROVIDE 160 PSIG SUPPLY PRESSURE.
 - CONNECT 1" COMPRESSED AIR LINE TO AIR COMPRESSOR.
 - 3/4" COMPRESSED AIR LINE DOWN TO 48" A.F.F. PROVIDE "Y" FITTING WITH QUICK RELEASE CONNECTIONS. COORDINATE LOCATION WITH OWNER.
 - PROVIDE ISOLATION VALVE.
 - PROVIDE DROP LEG MOISTURE TRAP AT END OF MAIN AS SHOWN.

- WATER GENERAL NOTES
- ALL COMPRESSED AIR LINES HAVE AN INTERNAL PRESSURE OF 160 PSIG. PRESSURE MUST BE REGULATED PRIOR TO CONNECTING TO EQUIPMENT. VERIFY PRESSURE RATING FOR ALL EQUIPMENT PRIOR TO CONSTRUCTION.
 - ALL COMPRESSED AIR LINES TO BE TRANSAIR ALUMINUM PIPING OR EQUIVALENT. PIPING SHALL BE RATED FOR 185 PSIG MINIMUM. BUILDING TO OPERATE BETWEEN 45F AND 115F AT ALL TIMES.
 - COMPRESSED AIR FITTINGS SHALL BE RATED FOR MINIMUM 185 PSIG. FITTINGS SHALL BE SOCKET TYPE.
 - INSTALL COMPRESSED AIR PIPING PER MANUFACTURERS SPECIFICATIONS.
 - ALL BRANCH LINES TO BE PIPED FROM THE TOP OF THE COMPRESSED AIR PIPING MAIN.
 - CONTRACTOR AND OWNER ARE RESPONSIBLE TO VERIFY PROPOSED PIPING SYSTEM IS COMPATIBLE WITH ANY OILS PRESENT IN THE AIR COMPRESSOR.

CONNECT TO EXISTING



REVISIONS		
MARK	DESCRIPTION	DATE

Key Plan

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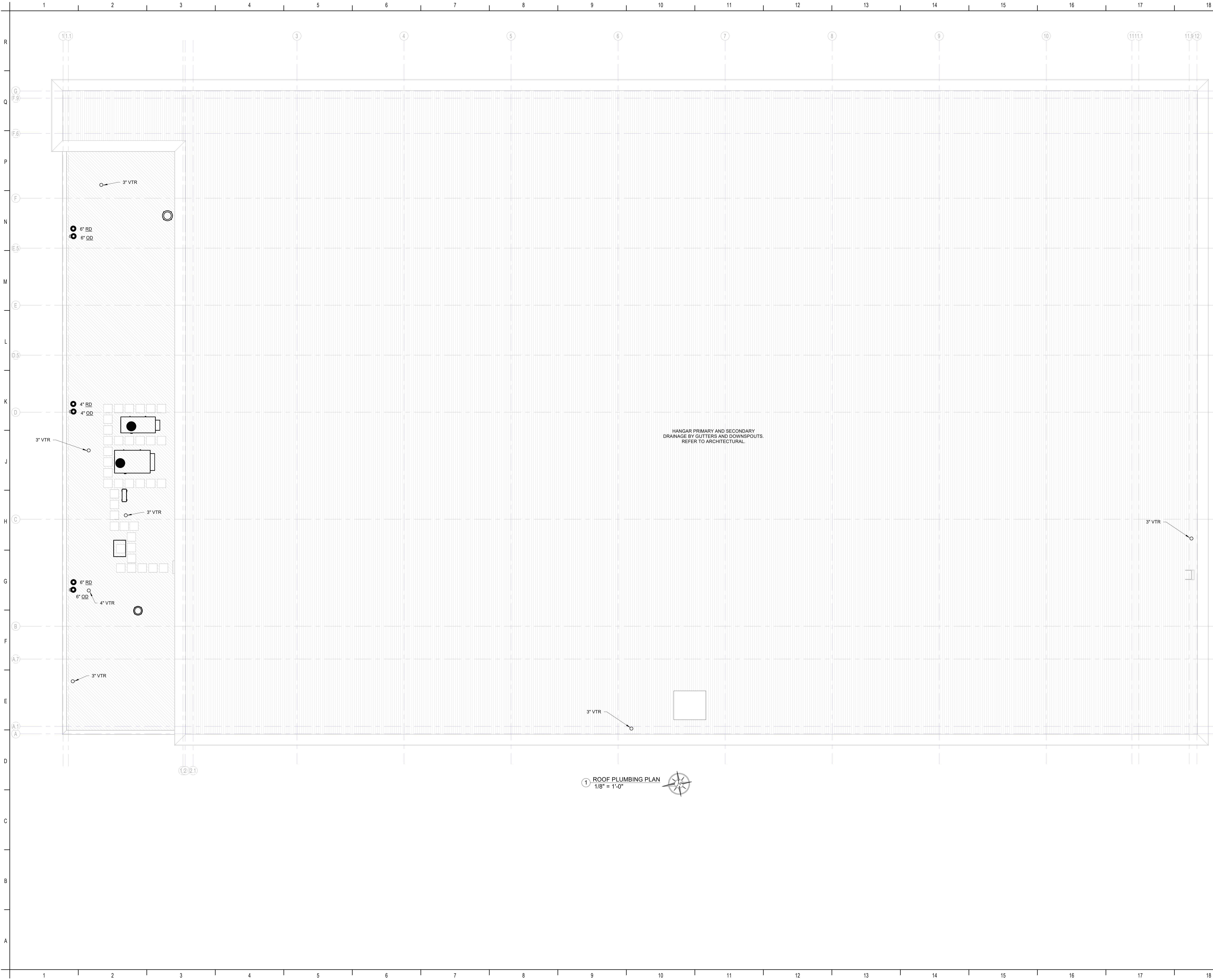
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OVERALL PNEUMATIC PLAN

P400

100% PERMIT SET



HDg
Architecture
127 W. FAIRBANKS AVENUE, SUITE 140
WINTER PARK, FL 32789
(PH): 407-739-9000

THOMPSON
ENGINEERING
8201 SHAFFER PARKWAY
SUITE A
LITTLETON, COLORADO 80127
303.991.0991
THOMPSON-ENG.COM



REVISIONS		
MARK	DESCRIPTION	DATE

Key Plan

SIGNATURE STEWART (SWF)
HANGAR

1188 1ST STREET, NEW WINDSOR, NY 12553

SIGNATURE
AVIATION
SIGNATURE FLIGHT SUPPORT
13485 VETERANS WAY, SUITE 600
ORLANDO, FLORIDA 32827

ISSUE DATE: 06/12/2024
COMM. NO.: 2023-177
DRAWN BY: JH CHECKED BY: DL / RS

ROOF PLUMBING PLAN

P500

100% PERMIT SET