

NOTE: THIS IS AN EXISTING FACILITY WHICH HAS EXISTING SANITARY AND WATER DISTRIBUTION SYSTEMS. ALTERATIONS TO EXISTING WORK BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED SYSTEM IN WORKING CONDITION.

NEW 4" GREASE WASTE LINE SHALL CONNECT TO EXISTING SANITARY PIPING BELOW GRADE IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION AND INVERT ELEV. OF CONNECTION POINT PRIOR TO CONSTRUCTION.

24"X24"X24" CONCRETE SAMPLE PAULT WITH HYDRAULIC JUMP. SEE DETAILS ON SHEET P-2.1.

GREASE INTERCEPTOR 3,000 GALLONS. REFER TO DETAILS ON SHEET P-2.1.

4" 2-WAY C.O. W/TEST TEE.

EXIST. 3" VTR IN THIS AREA SHALL REMAIN AS CONNECTED. CONNECT TO VENT PIPING IN THIS AREA TO EXIST. VTR. REFER TO SANITARY ISOMETRIC.

CONDENSATE DRAIN PIPING THRU FREEZER SHALL BE PROVIDED WITH HEAT TAPE.

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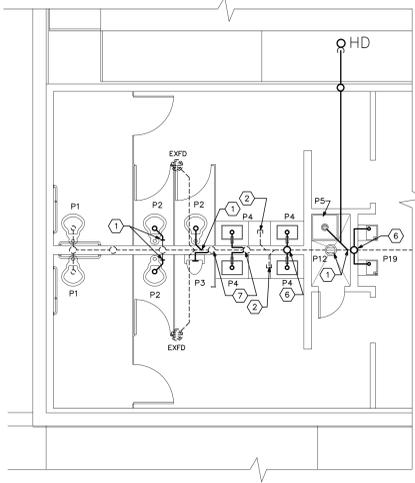
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CONDENSATE DRAIN PIPING THRU FREEZER SHALL BE PROVIDED WITH HEAT TAPE.

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CONDENSATE DRAIN PIPING THRU FREEZER SHALL BE PROVIDED WITH HEAT TAPE.



(TOILET ROOM ENLARGEMENT)

2 PART. FLOOR PLAN - PLUMBING
SCALE: 3/16"=1'-0"

PLUMBING SYMBOLS LEGEND

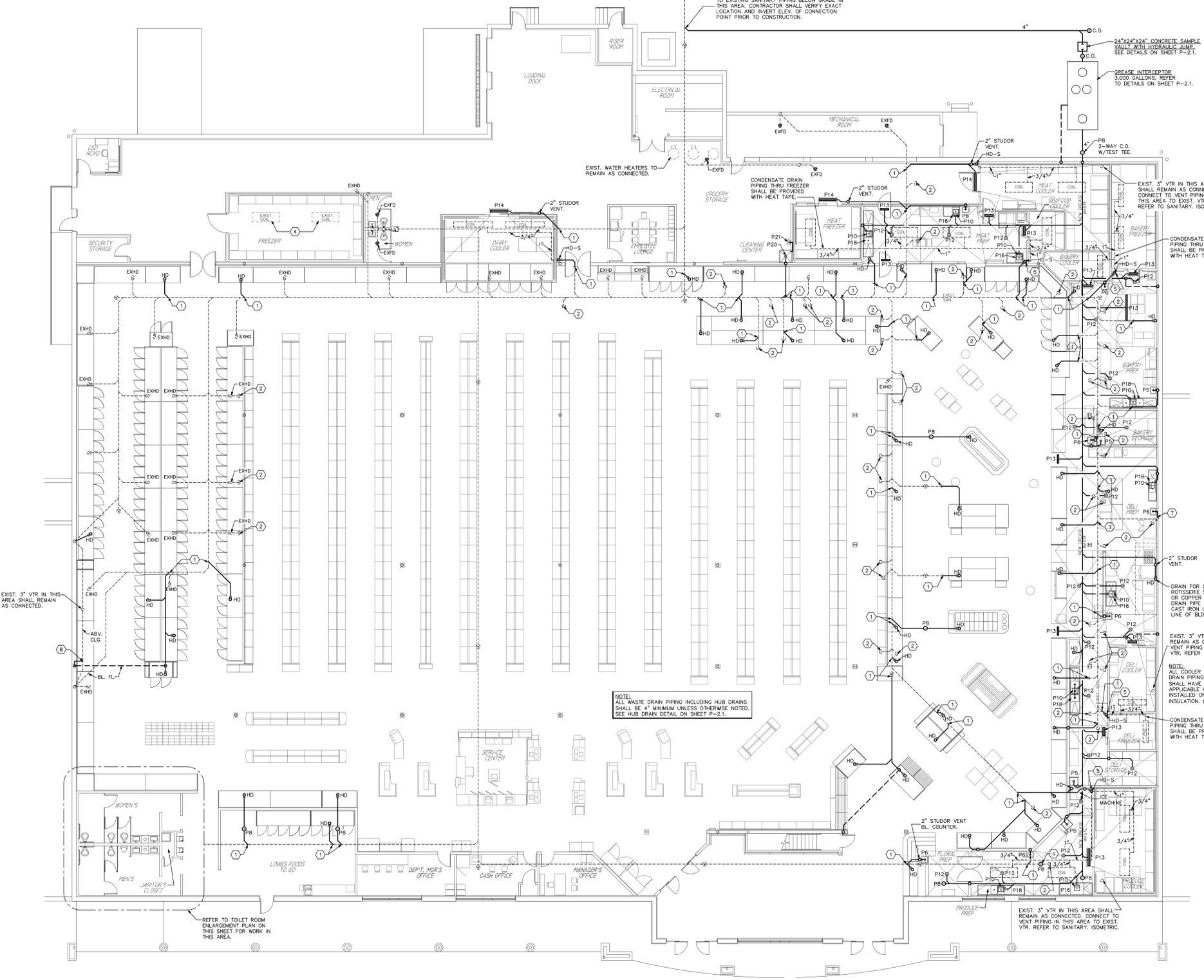
- ⊙ FLOOR DRAIN
- ⊙ HD HUB DRAIN (NEW)
- ⊙ HD-HUB HUB DRAIN (NEW)
- ⊙ HD-HUB HUB DRAIN (EXIST. TO REMAIN)
- ⊙ EXHD FLOOR DRAIN (EXIST. TO REMAIN)
- ⊙ CLEANOUT
- ⊙ RELIEF VALVE
- ⊙ AIR CHAMBER
- ⊙ UNION
- ⊙ SOIL OR WASTE LINE
- ⊙ SANITARY VENT LINE
- ⊙ DOMESTIC COLD WATER
- ⊙ DOMESTIC HOT WATER
- ⊙ DOMESTIC WATER RECIRCULATION
- ⊙ PRESSURE & TEMP. RELIEF LINE
- ⊙ CONDENSATE DRAIN LINE
- ⊙ RAIN WATER LEADER
- ⊙ GAS LINE
- ⊙ SAFEWASTE LINE
- ⊙ FIRE PROTECTION
- ⊙ SHUT OFF VALVE
- ⊙ SAFEPAN LINE
- ⊙ FIRE SPRINKLER HEAD
- ⊙ PIPE TURN UP
- ⊙ PIPE TURN DOWN
- ⊙ P-TRAP

PLUMBING ABBREVIATION LEGEND

DN. DOWN	C.C. CENTER TO CENTER	F.U. FIXTURE UNITS
EXT. EXTERIOR	N.T.S. NOT TO SCALE	H.B. HOSE BIBBS
F.D. FLOOR DRAIN	MFR. MANUFACTURER	C.O. CLEANOUT
F.F. FINISH FLOOR	S.O.V. SHUT OFF VALVE	E.W.H. ELECTRIC WATER HEATER
A.F.F. ABOVE FINISH FLOOR	W.C. WATER CLOSET	JAN.SK. JANITOR SINK
V.T.R. VENT THRU ROOF	LAV. LAVATORY	P & T PRESSURE & TEMPERATURE
TYP. TYPICAL	SK. SINK	R.W.L. RAIN WATER LEADER
R.D. ROOF DRAIN	D.W. DISH WASHER	
REV. REVISION	E.D.F. ELECTRIC DRINKING FOUNTAIN	
O.C. ON CENTER	UR. URINAL	

- SPECIFIC PLUMBING NOTES**
- 1 CONNECT TO EXISTING SANITARY/GREASE WASTE BELOW FLOOR IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
 - 2 EXISTING SANITARY PIPING BELOW FLOOR SLAB SHALL BE CAPPED IN THIS AREA. EXISTING PIPE MUST BE CAPPED IN A MANNER THAT DOES NOT LEAVE ANY DEAD-ENDS. ANY BRANCHES LONGER THAN 2' MUST HAVE CLEANOUTS INSTALLED. CONTRACTOR SHALL REPAIR FLOOR SLAB AS REQUIRED.
 - 3 EXISTING FLOOR SINK SHALL REMAIN AS CONNECTED.
 - 4 EXISTING COIL AND RELATED CONDENSATE PIPING SHALL REMAIN AS CONNECTED.
 - 5 1" COIL CONDENSATE DRAIN SHALL ROUTE DOWN TO HUB DRAIN.
 - 6 NEW WASTE/VENT STACK TO CONNECT TO EXISTING SANITARY BELOW FLOOR IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
 - 7 CONNECT TO EXISTING WASTE/VENT STACK IN WALL IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
 - 8 CONNECT TO EXISTING VENT PIPING ABOVE CEILING IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL CASE ROUGH-IN DIMENSIONS WITH THE CASE MANUFACTURER. CONTRACTOR SHALL LAY-OUT ALL ROUGH-INS FOR APPROVAL BY LOWES FOOD AND CASE MANUFACTURER PRIOR TO ANY WORK. DIMENSIONS SHOWN MAY OR MAY NOT BE ACCURATE FOR THE SPECIFIC CASES TO BE SUPPLIED ON THIS PROJECT.



NOTE: ALL WASTE DRAIN PIPING INCLUDING HUB DRAINS SHALL BE 4" MINIMUM UNLESS OTHERWISE NOTED. SEE HUB DRAIN DETAIL ON SHEET P-2.1.

EXIST. 3" VTR IN THIS AREA SHALL REMAIN AS CONNECTED.

EXIST. 3" VTR IN THIS AREA SHALL REMAIN AS CONNECTED. CONNECT TO VENT PIPING IN THIS AREA TO EXIST. VTR. REFER TO SANITARY ISOMETRIC.

NOTE: ALL COOLER AND FREEZER CONDENSATE DRAIN PIPING SHALL BE COPPER OR SHALL HAVE 1" INSULATION WHERE APPLICABLE. HEAT TAPE SHALL BE INSTALLED ON PIPE UNDERNEATH INSULATION. (TYPICAL)

CONDENSATE DRAIN PIPING THRU FREEZER SHALL BE PROVIDED WITH HEAT TAPE.

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CONDENSATE DRAIN PIPING THRU FREEZER SHALL BE PROVIDED WITH HEAT TAPE.

NOTE: SHALL PROVIDE A CAMERA SURVEY OF ALL PLUMBING LINES AFTER CONCRETE FLOORS ARE POURED.

(WASTE PIPING)
1 FLOOR PLAN - PLUMBING
SCALE: 3/32"=1'-0"

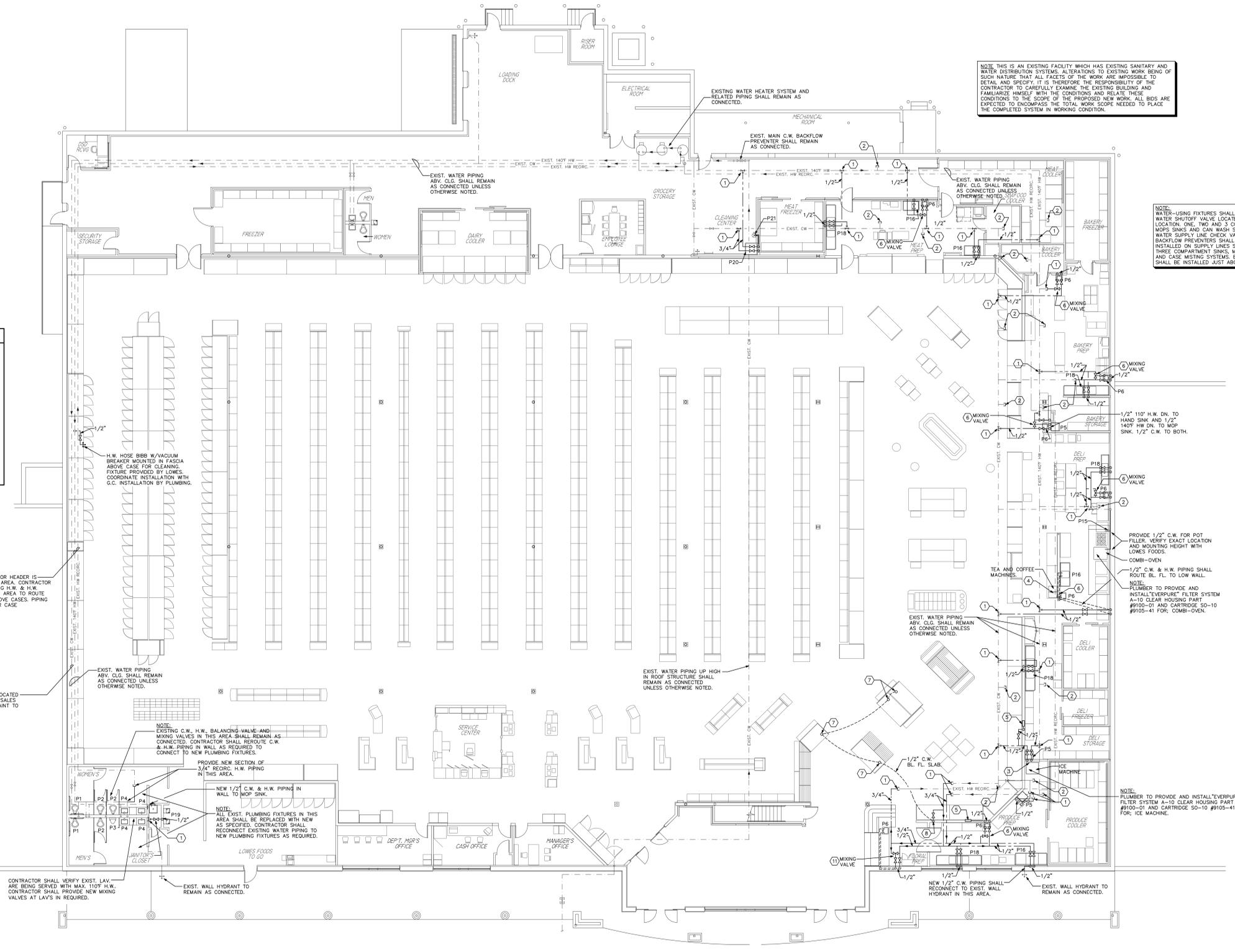
Storage Tank Water Heater Sizing Calculator						
Developed by the Plan Review Unit of the Environmental Health Services Section NC Division of Environmental Health						
Facility Name:		Lowe's Foods Store #162 overall water heater calculations				
Address:		Cary, NC				
Sinks						
Enter the description, and number and size of compartments for each sink below						
Description	Number of compartments	Length (inches)	Width (inches)	Depth (inches)	Gallons Per Hour (GPH)	
Hot Sink	3 Comp. Sink	3	24	19	14	
Hot Sink	3 Comp. Sink	3	24	19	14	
Hot Sink	3 Comp. Sink	3	24	19	14	
Hot Sink	3 Comp. Sink	3	24	19	14	
Sinks are calculated at 75% capacity					Total	56
Prep Sinks						
Enter the type of prep sink and number of each compartment for each sink below						
Type of prep sink (vegetable, meat, seafood)	Number of compartments				Gallons Per Hour (GPH)	
Prep sink #1	meat prep sink	1				5
Prep sink #2	meat prep sink	1				5
Prep sink #3	meat prep sink	1				5
Prep sink #4	meat prep sink	2				10
Prep sink #5	vegetable prep sink	1				5
Prep sinks are calculated at 5 gallons per compartment					Total	30
Other Equipment						
Enter the quantity of equipment below						
Quantity					Gallons Per Hour (GPH)	
Hand sinks	8				40	
Can wash	0				0	
Mop sink	3				15	
Hose reel	0				0	
Clothes washer	0				0	
Enter a description and estimated gallons per hour (GPH) usage for other equipment below						
Description					Gallons Per Hour (GPH)	
Other Equipment					0	
Other Equipment					0	
Other Equipment					0	
Other Equipment					0	
Hand sinks and mop sinks are calculated at 5 GPH each, can washes at 10 GPH each. Mop sinks are calculated at 5 GPH, clothes washers at 10 GPH, other equipment at the usage entered					Total	55
Final Rise Usage (GPH)						
Enter the make, model and final rise usage in gallons per hour (GPH) for dishwashers						
Make	Model				Gallons Per Hour (GPH)	
Dishwashers #1				0		
Dishwashers #2				0		
Enter the quantity of pre-rinse units						
Quantity					Gallons Per Hour (GPH)	
Dishwashers are calculated at 5 GPH each, pre-rinse units at 10 GPH each. Dishwashers are calculated at 45 GPH					Total	0
Recovery Rate Needed (GPH):					334	
Water Heater Input (BTU or kW) Needed:						
Gas Water Heater		Electric Water Heater				
293,000 BTU at 80°F rise		65 kW at 80°F rise				
336,000 BTU at 90°F rise		73 kW at 90°F rise				
368,000 BTU at 100°F rise		82 kW at 100°F rise				

- ### SPECIFIC PLUMBING NOTES
- CONNECT TO EXISTING WATER PIPING ABOVE CEILING IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
 - EXISTING WATER PIPING SHALL BE CAPPED ABOVE CEILING AT THIS LOCATION. ALL PIPING BEYOND THIS POINT SHALL BE REMOVED. NO CAP IF NEW WATER PIPING IS CONNECTING AT THIS POINT.
 - WATER CONNECTION TO ICE MACHINE SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW PREVENTER SHALL BE A "WATTS" SD2 3/8". <http://media.wattswater.com/es-sd2.pdf>
 - WATER CONNECTION TO TEA AND COFFEE MACHINES SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW PREVENTER SHALL BE A "WATTS" SD2 3/8". <http://media.wattswater.com/es-sd2.pdf>
 - MISTING UNIT FOR PRODUCE CASE, CONNECT 1/2" C.W. PIPING TO UNIT AS REQUIRED. COORDINATE FINAL CONNECTION AND LOCATION WITH LOWES FOOD AND MIST UNIT MANUFACTURER PRIOR TO CONSTRUCTION.
 - HAND SINKS AND BAR SINK (UNLESS OTHERWISE NOTED) SHALL HAVE MIXING VALVES INSTALLED TO TEMPER HOT WATER. MIXING VALVE SHALL BE A "STARCO" MODEL AMFOOD. INSTALL CHECK VALVES ON SUPPLY LINES TO MIXING VALVES. REFER TO MIXING VALVE DETAIL ON SHEET P-2.1.
 - PROVIDE 1/2" C.W. LINE W/SHUT OFF VALVE UNDER PRODUCE ISLAND. STUB UP IN REFRIGERATION PIT.
 - 1/2" C.W. DN. IN WALL. OFFSET BELOW FLOOR SLAB TO ISLAND CASES AS INDICATED.

EXISTING CURTAIN WALL OR HEADER IS BEING REMOVED IN THIS AREA. CONTRACTOR SHALL RELOCATE EXISTING H.W. & H.W. REGRID. PIPING IN SALES AREA TO ROUTE ALONG WALL AT ±2" ABOVE CASES. PIPING TO BE RELOCATED AFTER CASE INSTALLATION.

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL CASE ROUGH-IN DIMENSIONS WITH THE CASE MANUFACTURER. CONTRACTOR SHALL LAY-OUT ALL ROUGH-INS FOR APPROVAL BY LOWES FOOD AND CASE MANUFACTURER PRIOR TO ANY WORK. DIMENSIONS SHOWN MAY OR MAY NOT BE ACCURATE FOR THE SPECIFIC CASES TO BE SUPPLIED ON THIS PROJECT.

CONTRACTOR SHALL RELOCATED EXISTING C.W. PIPING IN SALES AREA TO STRUCTURE. PAINT TO MATCH STRUCTURE.



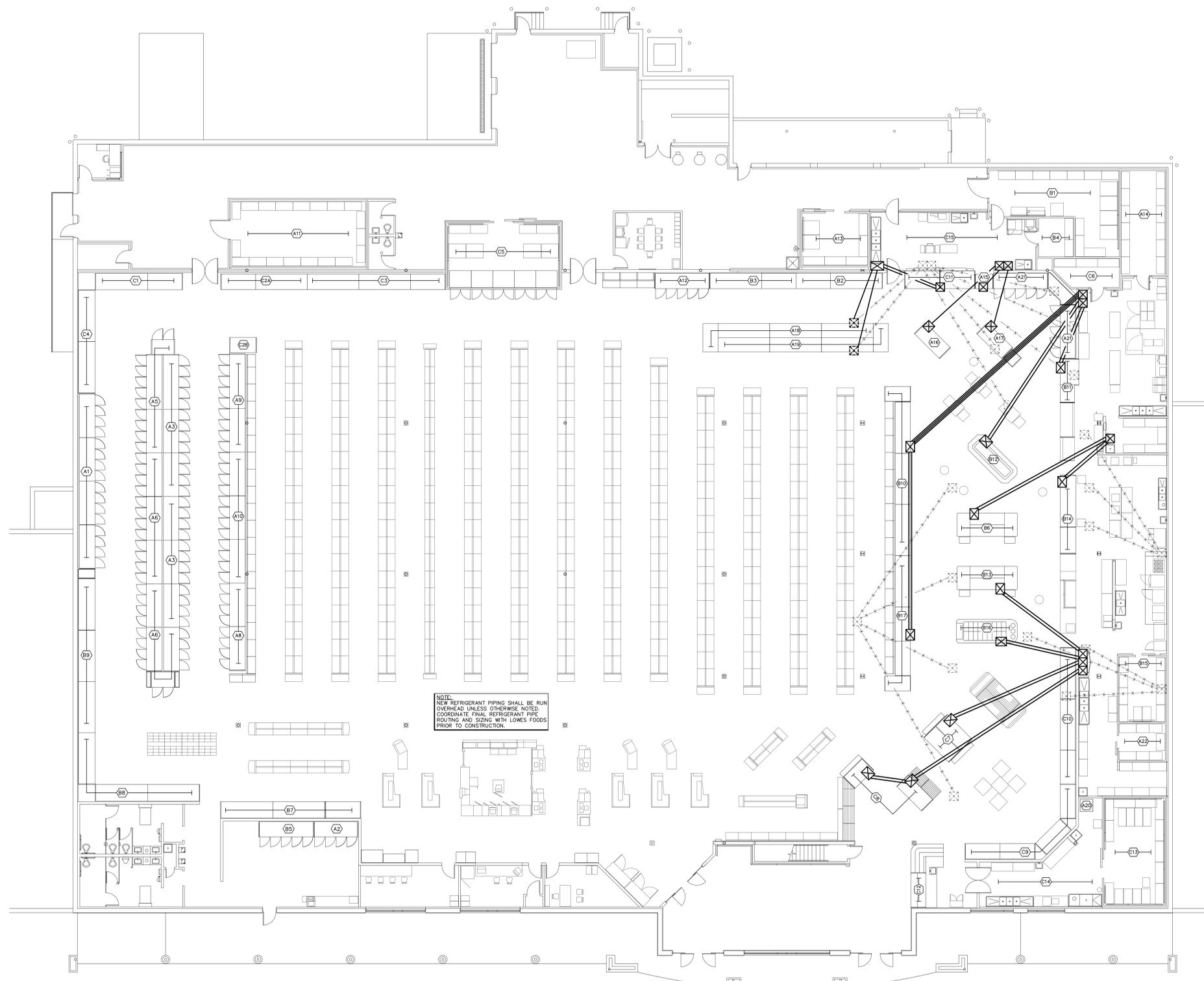
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NOTE: WATER-USE FIXTURES SHALL HAVE INDIVIDUAL WATER SHUTOFF VALVE LOCATED IN AN ACCEPTABLE LOCATION. ONE, TWO AND 3 COMPARTMENT SINKS, MOP SINKS AND CAN WASH SHALL HAVE C.W. & H.W. WATER SUPPLY LINE CHECK VALVES, WATTS #7 BACKFLOW PREVENTERS SHALL BE PROVIDED AND INSTALLED ON SUPPLY LINES SERVING ONE, TWO & THREE COMPARTMENT SINKS, MOP SINKS, CAN WASH AND CASE MISTING SYSTEMS. BACKFLOW PREVENTER SHALL BE INSTALLED JUST ABOVE CEILING.

PROVIDE 1/2" C.W. FOR POT FILLER. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH LOWES FOODS. COMBI-OVEN. 1/2" C.W. & H.W. PIPING SHALL ROUTE BL. FL. TO LOW WALL. NOTE: PLUMBER TO PROVIDE AND INSTALL "EVERPURE" FILTER SYSTEM A-10 CLEAR HOUSING PART #9100-01 AND CARTRIDGE SD-10 #9105-41 FOR COMBI-OVEN.

NOTE: PLUMBER TO PROVIDE AND INSTALL "EVERPURE" FILTER SYSTEM A-10 CLEAR HOUSING PART #9100-01 AND CARTRIDGE SD-10 #9105-41 FOR ICE MACHINE.

(WATER PIPING)
1 FLOOR PLAN - PLUMBING
SCALE: 3/32"=1'-0"



NOTE:
REFER TO SHEET A2.4 ON
ARCHITECTURAL PLAN FOR
REFRIGERATION PIT DETAILS
AND NOTES.

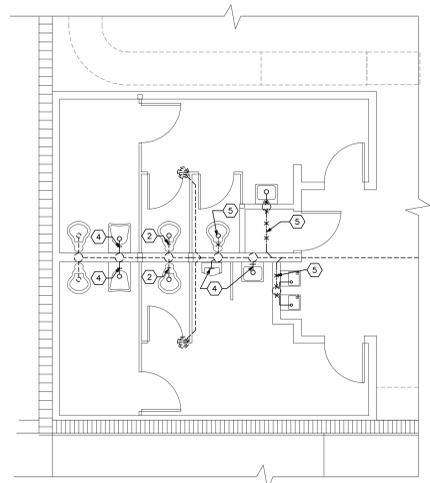
LEGEND	
	= 2'-0" X 2'-0" X 1'-8" DEEP REFRIGERATION PIT
	= EXISTING REFRIGERANT PIT TO REMAIN AND BE REVISED.
	= EXISTING REFRIGERANT PIT TO BE ABANDONED IN PLACE.
	= (2) 6" SCHED. 40 UNDER FLOOR DUCTS FOR REFRIGERANT LINE. COORDINATE FINAL QUANTITY, SIZE AND LOCATION WITH LOWES FOOD PRIOR TO CONSTRUCTION.
	= EXISTING REFRIGERANT DUCT TO BE ABANDONED IN PLACE.

- REFRIGERATION SPECIFIC NOTES**
1. ALL UNDER FLOOR DUCT FOR REFRIGERATION LINES SHALL BE SCHEDULE 40 PVC, 6" IN DIAMETER UNLESS OTHERWISE NOTED.
 2. REFRIGERATION LINES BY LOWES FOODS.
 3. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO REFRIGERATION PITS.
 4. CONTRACTOR SHALL TAKE EXTREME CARE TO ENSURE DUCTS SLOPE FROM 2' X 2' PIT DOWN TO THE REFRIGERATION PIPING ACCESS AREA. SLOPE SHALL BE A MINIMUM OF 1/8" PER FOOT.
 5. SWEEP-UP 6" PVC AT 45 DEGREE ANGLE, REFER TO DETAIL ON THIS SHEET.
 6. INSTALLATION OF UNDER FLOOR DUCT IS BY PLUMBING CONTRACTOR.
 7. INSTALLATION OF REFRIGERATION PITS BY ANOTHER CONTRACTOR, NOT PLUMBING CONTRACTOR. COORDINATE DUCT INSTALLATION WITH GENERAL CONTRACTOR.
 8. AVOID INTERFERENCES WITH FOOTINGS AND COLUMNS WITH UNDERGROUND DUCT. MODIFY UNDER FLOOR DUCT SLOPE TO AVOID ROUTING IN FOOTER AS NECESSARY.
 9. SEAL OPEN END OF 6" PVC TO PREVENT SAND FROM ENTERING CONDUIT IN ALL ACCESS PITS.

NOTE:
NEW REFRIGERANT PIPING SHALL BE RUN
OVERHEAD UNLESS OTHERWISE NOTED.
COORDINATE FINAL REFRIGERANT PIPE
ROUTING AND SIZING WITH LOWES FOODS
PRIOR TO CONSTRUCTION.

1 REFRIGERATION PIT PIPING PLAN - PLUMBING
SCALE: 3/32"=1'-0"

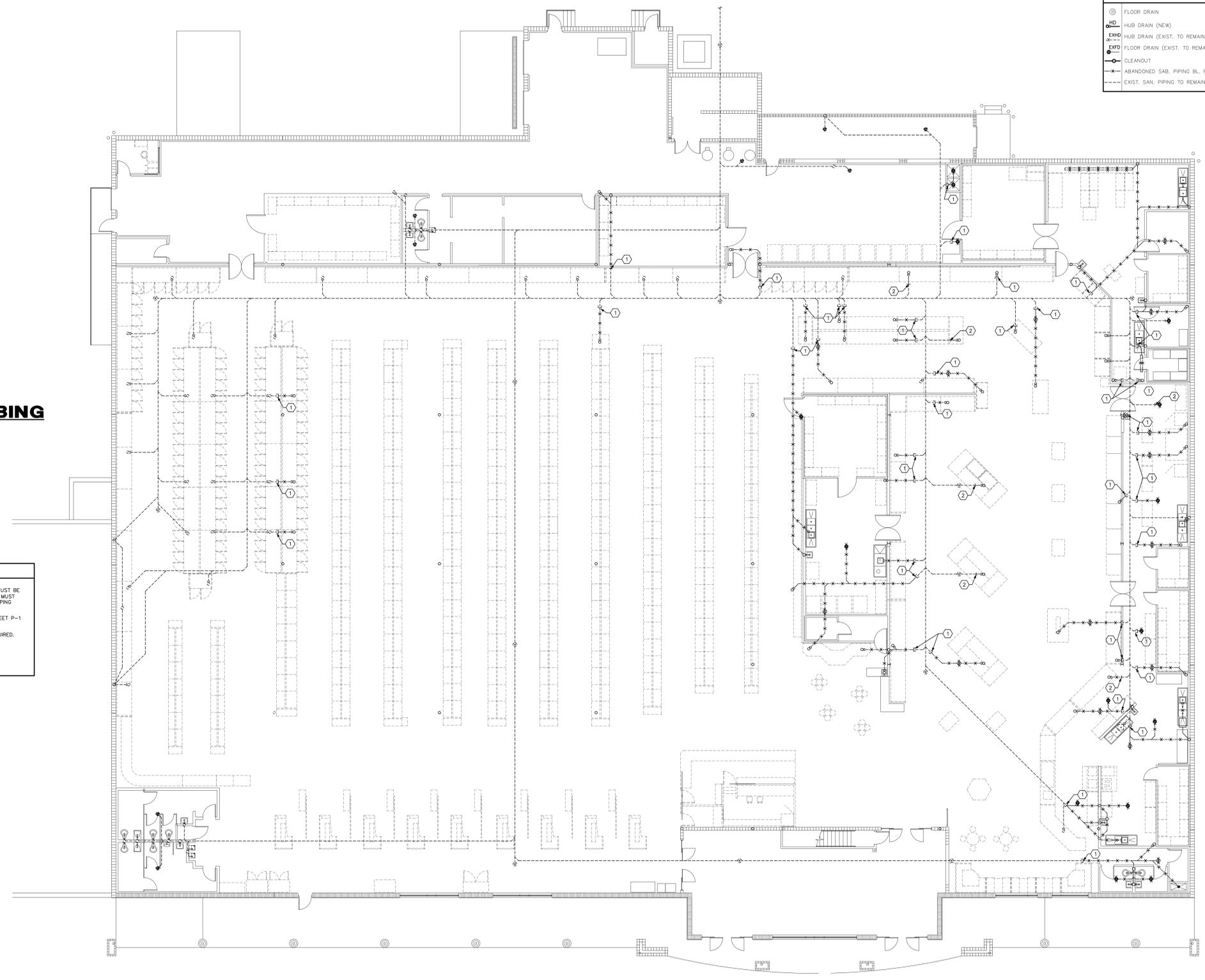
PLUMBING SYMBOLS LEGEND	
	FLOOR DRAIN
	HUB DRAIN (NEW)
	HUB DRAIN (EXIST. TO REMAIN)
	FLOOR DRAIN (EXIST. TO REMAIN)
	CLEANOUT
	ABANDONED SUB. PIPING BL. FL.
	EXIST. SAN. PIPING TO REMAIN



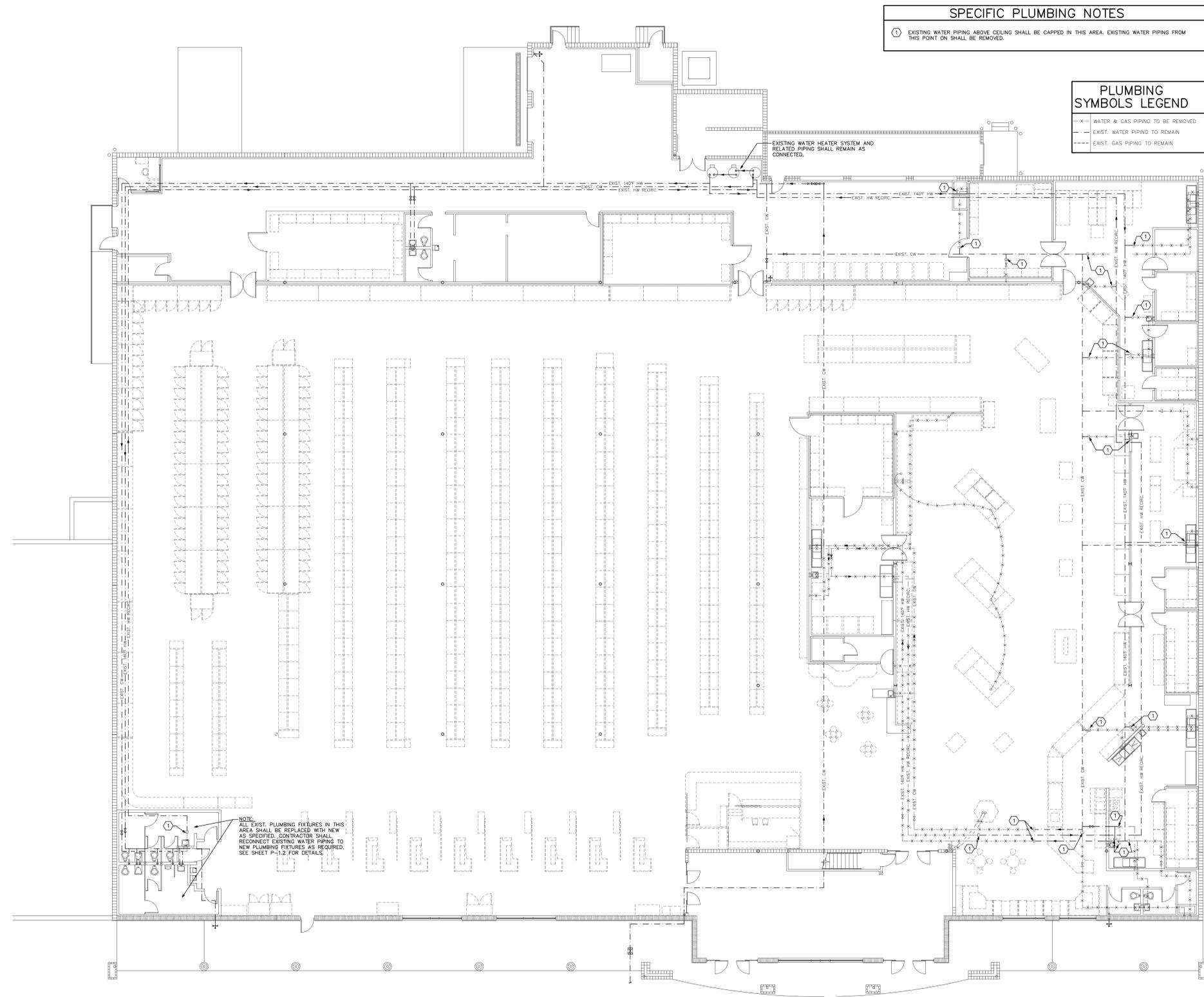
(TOILET ROOM ENLARGEMENT)

2 PART. FLOOR PLAN - PLUMBING
SCALE: 3/16"=1'-0"

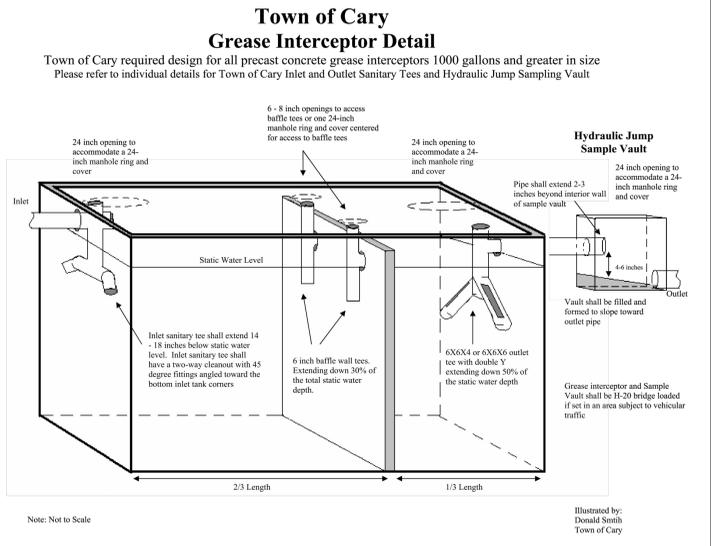
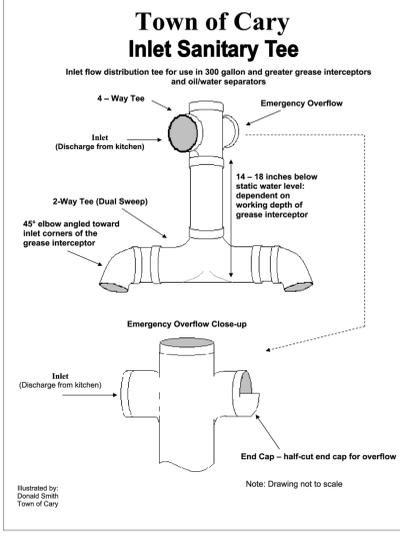
- SPECIFIC PLUMBING NOTES**
- ① EXISTING SANITARY PIPING BELOW FLOOR SLAB SHALL BE CAPPED IN THIS AREA. EXISTING PIPE MUST BE CAPPED IN A MANNER THAT DOES NOT LEAVE ANY DEAD-ENDS. ANY BRANCHES LONGER THAN 2' MUST HAVE CLEANOUTS INSTALLED. CONTRACTOR SHALL REPAIR FLOOR SLAB AS REQUIRED. EXISTING PIPING BEYOND POINT OF GAP SHALL BE ABANDONED IN PLACE.
 - ② NEW SANITARY PIPING CONTINUING ON FROM THIS POINT. REFER TO NEW SANITARY PIPING ON SHEET P-1 FOR CONTINUATION.
 - ③ EXISTING VENT STACK TO BE REMOVED AND CAPPED BELOW FLOOR. REPAIR FLOOR SLAB AS REQUIRED.
 - ④ EXISTING WASTE ARM SHALL BE REMOVED.
 - ⑤ EXISTING SANITARY BELOW FLOOR IN THIS AREA SHALL BE REMOVED.



1 WASTE PIPING DEMO FLOOR PLAN - PLUMBING
SCALE: 3/32"=1'-0"



1 WATER PIPING DEMO FLOOR PLAN - PLUMBING
 SCALE: 3/32"=1'-0"



Town of Cary Public Works and Utilities Department Pretreatment Division Grease Interceptor Sizing Spreadsheet

Project Name: Lowes Foods Store #162
Project Address: 6430 Tyson Road, Cary, North Carolina 27511

Project Permit #: (if applicable):
Date Grease Interceptor Sized: 12/14/2012
Grease Interceptor Sited by: Tony Barar
Company Sizing Grease Interceptor: Tony Barar
Contact Phone: 704.464.9824
Contact E-Mail: tbarar@tdccary.com

General Project Comments: Note: We have (5) prep sinks on this project. There are only (4) spaces available on calc. We covered this in the calc by making one of the single compartment prep sinks a double compartment prep sink. There is one double compartment sink on the project and that is the sink listed as Vegetable prep.

Grease Interceptor Sizing - Plan Review Fixture Summary

Include Plan Review Fixture Summary with Plumbing Plan Review Submittal

Wash Fixture Name	# Compartments	Drain Size/Material	Flow Rate (gpm)
3 Compartment Sink	3	1.5 in. PVC	13.69
3 Compartment Sink	3	1.5 in. PVC	13.69
3 Compartment Sink	3	1.5 in. PVC	13.69
3 Compartment Sink	3	1.5 in. PVC	13.69
Wash Washing Fixture Flow			54.78

Prep Sink Fixture Name	# Compartments	Flow Rate (gpm)
Meat Prep (2) single compartment sinks	2	2.00
Dish Prep (1) single compartment sink	1	2.00
Dish Prep (1) single compartment sink	1	2.00
Vegetable Prep (1) two compartment sink	2	2.00
Food Prep Fixture Flow		6.00
Pre-Rinse Flow		0.00

Dishwasher Name	Flow Rate (gpm)
Dish Washer Flow	0.00

Cooking Equipment Name	Drain Size/Material	Flow Rate (gpm)
Range	1 in. PVC	4.85
Combo Oven	1 in. PVC	4.85
Cooking Equip. Fixture Count		9.70

Equipment Cleaning Name	Flow Rate (gpm)
Mop Sink	2.00
Mop Sink	2.00
Equip. Cleaning Fixture Count	4.00

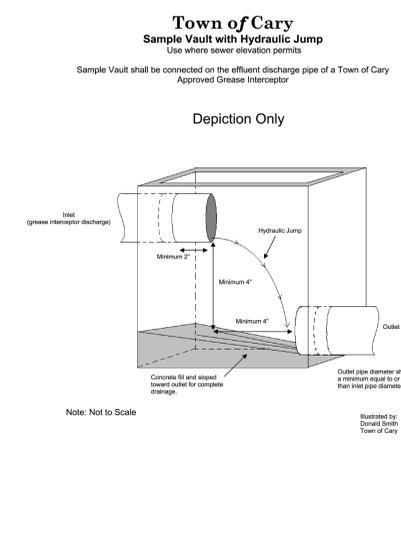
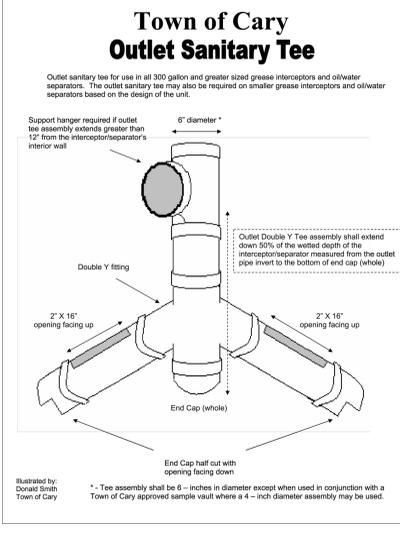
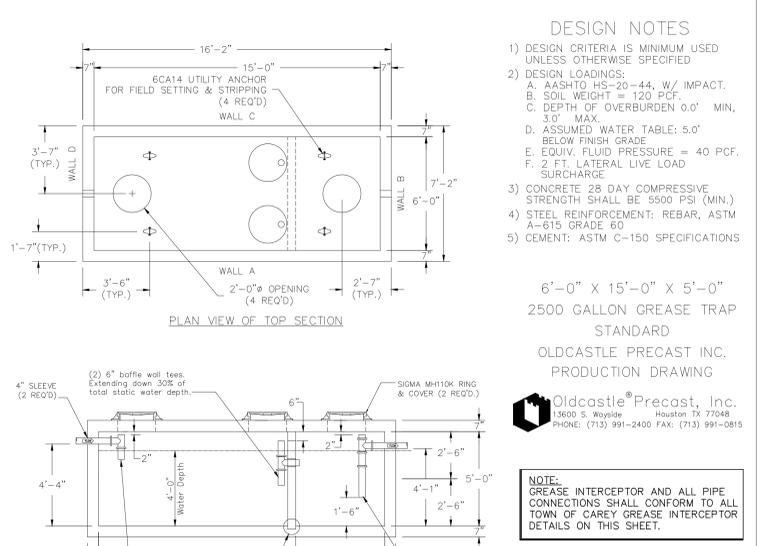
Waste Food Disposal Name	Flow Rate (gpm)
Waste Food Disposal Count	0.00

Washable Floor Area Name	Surface Area (ft ²)	Flow Rate Included (gpm)	Flow Rate (gpm)
Area #	2002		0.00
Washable Floor Area Flow			0.00

Peak Hydraulic Loading Time => 24 Minutes (% capacity)
Grease/Food Solids Storage Factor => 25% (% capacity)
Food Waste Disposal Solids Storage => No Food Waste Disposal Proposed (% capacity increase to ac)

Maximum Total Fixture Flow Rate to Grease Interceptor: 85.78
24 Minute Peak Hydraulic Loading Grease Interceptor Size (Gallons): 2342

Grease Interceptor sizing spreadsheet developed by the Town of Cary Public Works and Utilities Department Pretreatment Division



5 GREASE TRAP CALCULATION

NO SCALE

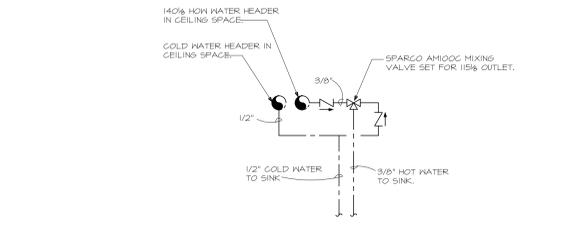
PLUMBING FIXTURE SCHEDULE

SYM.	FIXTURE	CW	HW	DRAIN	STOPS & VALVES	MANUF.	MODEL	REMARKS	ACCEPTABLE ALTERNATIVE MANUFACTURERS. SEE NOTE 6
P-1	WATER CLOSET FLOOR MOUNT FLUSH VALVE HANDICAP	1"	-	3"	FLUSH VALVE	AMERICAN STANDARD	3461.1.28 1.28 GPF	INCLUDE SLOAN #111-1.28 SMOOTH, BATTERY OPERATED FLUSH VALVE. OLSONITE #10 WHITE OPEN FRONT SEAT WITHOUT COVER. SEE NOTE 1,2.	CRANE, KOHLER, ELIER FOR FIXTURES ONLY. NO SUBSTITUTION FOR SLOAN VALVE.
P-2	WATER CLOSET FLOOR MOUNT FLUSH VALVE	1"	-	3"	FLUSH VALVE	AMERICAN STANDARD	3461.1.28 1.28 GPF	INCLUDE SLOAN #111-1.28 SMOOTH, BATTERY OPERATED FLUSH VALVE. OLSONITE #10 WHITE OPEN FRONT SEAT WITHOUT COVER. SEE NOTE 1,2.	
P-3	URINAL HANDICAP	3/4"	-	2"	FLUSH VALVE	AMERICAN STANDARD	6590.001	INCLUDE SLOAN 186-1.0 SMOOTH, BATTERY OPERATED FLUSH VALVE. SEE NOTE 1,2.	
P-4	LAVATORY COUNTER HANDICAP	1/2"	1/2"	1-1/4"	ANGLE	KOHLER	K2214	LAVATORIES ARE UNDERMOUNT TYPE. INSTALL A KOHLER K13460 BATTERY OPERATED TOUCHLESS FAUCET STAINLESS STEEL FINISH. GRID DRAIN, BRASS CRAFT RISE SUPPLY VALVE W/CHROME PLATED RISER AND WALL FLANGE. 1-1/4" X 1-1/4" TUBULAR P-TRAP CP. SEE NOTE 1,3.	CRANE, KOHLER, ELIER
P-5	MOP SINK	3/4"	3/4"	3"	-	FIAT	MSB2424	FAUCET: 830AA W/VACUUM BREAKER. HOSE: 832-AA. MOP HANGER: 889-CC. STRAINER: E72-DD. SEE NOTE 3.	
P-6	HAND SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2" X 3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK. PROVIDE MIXING VALVE. REFER TO MIXING VALVE DETAIL ON THIS SHEET.	
P-7	FINISHED FLOOR CLEANOUT (FORKLIFT AREAS)	-	-	4"	-	SIoux CHEF	834-4PH (BASE) 834-4DR (TOP)	PVC BASE AND DUCTILE TOP. SEE NOTE 1,3.	NO ALTERNATIVES
P-8	FINISHED FLOOR CLEANOUT (FOOT TRAFFIC AREAS)	-	-	4"	-	SIoux CHEF	834-4PHR	COMPLETE ASSEMBLY WITH PVC BASE AND NICKEL BRONZE TOP.	
P-9	WALL CLEANOUT CONCRETE	-	-	4"	-	SIoux CHEF	873	STAINLESS STEEL WITH CAST BRASS PLUG.	
P-10	FLOOR SINK	-	-	3"	-	MIFAB	FS1720-150-5	HALF TOP GRATE. 12" X 12" TOP AND SEDIMENT BUCKET.	
P-11	FLOOR DRAIN (PRIMED) (NON WASHDOWN AREAS)	-	-	3"	-	MIFAB	F1000-R8-7	NICKEL BRONZE, DEEP SEAL TRAP. PROVIDE PRIMER TAP. SEE NOTE 4.	
P-12	FLOOR DRAIN (USED IN AREAS THAT ARE WASHED DOWN)	-	-	3"	-	MIFAB	F1000-R8	NICKEL BRONZE, DEEP SEAL TRAP.	
P-13	TRENCH DRAIN (PREP AREAS)	-	-	4"	-	ACO	K100-425/426	DEEP SEAL TRAP SLOTTED LOAD CLASS "C" GALVANIZED STEEL GRATE.	
P-14	TRENCH DRAIN (NON-PREP AREAS)	-	-	4"	-	ACO	K100S-461	DEEP SEAL TRAP SLOTTED LOAD CLASS "C" DUCTILE IRON GRATE.	
P-15	POT FILLER	1/2"	-	-	-	T&S BRASS	B-06050	INCLUDE VACUUM BREAKER.	
P-16	1 COMP. PREP SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2" X 3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK.	
P-17	2 COMP. PREP SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2" X 3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK.	NO ALTERATIONS
P-18	3 COMP. PREP SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2" X 3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK.	AMERICAN STANDARD KOHLER
P-19	ELECTRIC WATER COOLER H/O COMBINATION	1/2"	-	1-1/4"	1/2" ANGLE	ELKAY	EMABFL8C	SPLIT LEVEL TWO STATION WATER COOLER WITH BARRIER FREE ACCESS. MODEL EMABFL8C, 8.8 GPM, 4.0 L/A AT 120 VOL.	
P-20	CLEANING CENTER OPERATOR AND DRAIN	3/4"	3/4"	3"	BALL	FIAT	830AA	INCLUDE VACUUM BREAKER AND JOSAM 3000-E SERIES DRAIN W/STRAINERS AND RINKALOP TOP. 36" X 36" FIELD BUILT BASIN.	
P-21	EYE WASH	1/2"	-	1-1/4"	-	BALL	BRADLEY	WALL MOUNT. PIPE INDIRECTLY TO CLEANING CENTER. INCLUDE BARLEY S19-2000 EFXB THERMOSTATIC MIX VALVE TO TEMPER EYE WASH WATER TO OSHA STANDARDS. INCLUDE SHUT OFF VALVES ON HOT AND COLD WATER LINES.	

NOTES:
1. MATERIAL AND INSTALLATION SHALL BE PER STATE HANDICAP CODE REQUIREMENTS AND ADA REQUIREMENTS.
2. TOILETS SHALL FLUSH ON A MAXIMUM OF 1.28 GALLONS PER FLUSH.
3. LAVATORIES SHALL HAVE .5 GPM FLOW METERS.
4. INDICATED FLOOR DRAINS SHALL BE PRIMED WITH 1/2" COPPER LINE FROM NEARBY CLEAR WATER FIXTURE (LAVATORY). TAP CLEAR WATER FIXTURE TAIL PIECE WITH WATER SAVER TRAP PRIMER AND ROUTE COPPER SUPPLY LINE UNDER SLAB TO DRAIN PRIMER CONNECTION. WATER SERVER TRAP PRIMER SHALL BE ACCESSIBLE AND CODE APPROVED. IF A CLEAR WATER FIXTURE SUCH AS A LAVATORY IS NOT AVAILABLE, TAP NEARBY COLD WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE. CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE AND INSTALLED ON WALL ABOVE FLOOR SINK OF CLOSEST PREP SINK.
5. INSTALL CHECK VALVE ON COLD AND HOT WATER SUPPLY LINES SERVING MOP SINK AND CLEANING CENTER.
6. FIXTURES BY ALTERNATE MANUFACTURERS MUST BE APPROVED BY LOWES FOODS ENGINEERING PRIOR TO PURCHASE.

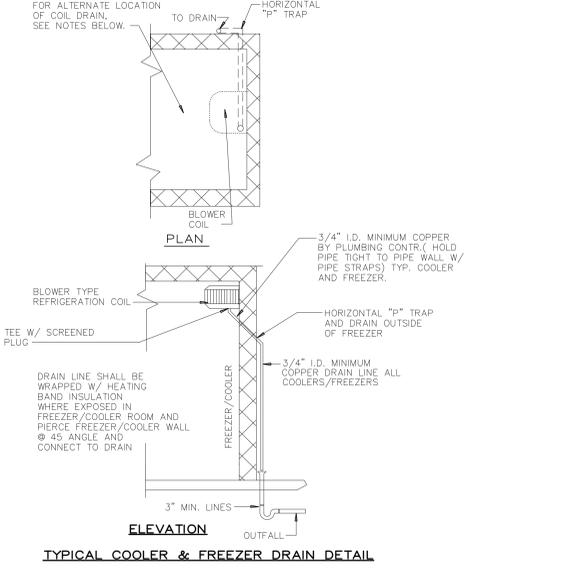
GENERAL PLUMBING NOTES

- Drawings are diagrammatic and shall not be scaled. Refer to architectural plans and elevations for exact location of all plumbing fixtures, equipment, etc. Plumbing contractor shall furnish and install all items required for a complete and acceptable working installation. Contractor is responsible to install all fixtures and equipment in strict compliance with the manufacturers installation instructions. This requirement is to supersede any details or information contained on these drawings.
- All work and materials shall comply with the latest edition of the National, State, and all local codes and Ordinances having jurisdiction.
- The plumbing contractor shall visit the site and thoroughly familiarize himself with all existing conditions. All execution and backfill as required for this phase of construction shall be a part of this contract.
- All material shall be new.
- All work shall be performed by a licensed plumbing contractor in a first class workmanlike manner. The completed system shall be fully operative and accepted by engineer/architect.
- All required insurance shall be provided for protection against public liability or property damage for the duration of the work.
- The plumbing contractor shall secure and pay all permit fees, inspections, and tests.
- All work shall be coordinated with other trades to avoid interference with the progress of construction.
- The plumbing contractor shall guarantee all materials and workmanship free from defects for a period of not less than (1) one year from date of acceptance. Correction of any defects shall be completed without additional charge and shall include replacement or repair of any other phase of the installation which may have been damaged thereby.
- Verify location, size and inverts of all existing utilities prior to start of construction. Advise architect/engineer of any discrepancies.
- All fixtures shall be provided with readily accessible stops.
- Water piping shall be type "L" copper for up to and including 2" and shall be type "K" for 2 1/2" and larger.
- Soil, wastes and vent piping shall be PVC #40 DMV. Waste and vent piping above slab shall be PVC. If approved by local authorities having jurisdiction, otherwise cast iron. PVC shall not be installed in A/C return air plenum or penetrate fire rated walls or floors.
- Air conditioning condensate drain piping shall be PVC #40 or copper drain waste and vent pipe and fittings. Insulate all condensate piping except exterior piping. Install all condensate piping for air conditioning units as required per local codes.
- Furnish and install approved water hammer arrestors at each plumbing fixture and PDI approved shock arrestors on main lines and risers.
- Provide chrome plated combination covered plate and cleanout plug for all wall cleanouts, Josam 58890.
- Insulate lines as follows:
a.) 1" thick armoalex preformed insulation shall be provided on both c.w. & h.w. re-circulating piping.
b.) Condensate piping: 1/2" thick armoalex preformed or approved equal.
- All drain lines in prep areas to be insulated or painted white by ref. contractor per Lowes foods specifications.



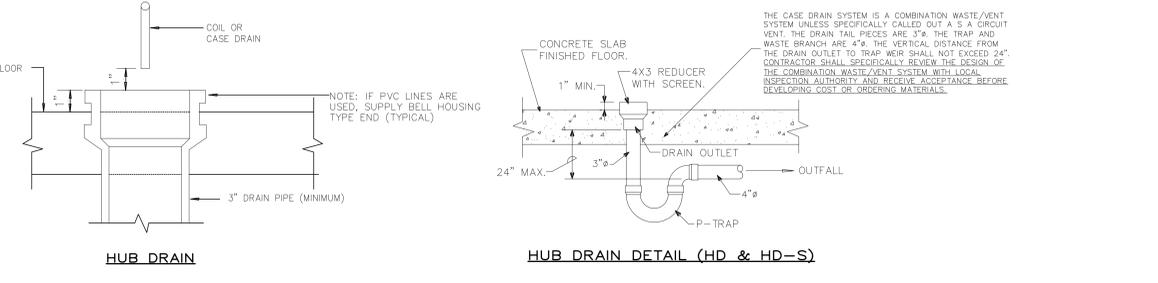
2 MIXING VALVE FOR HAND SINKS AND LAV'S DETAIL

NO SCALE



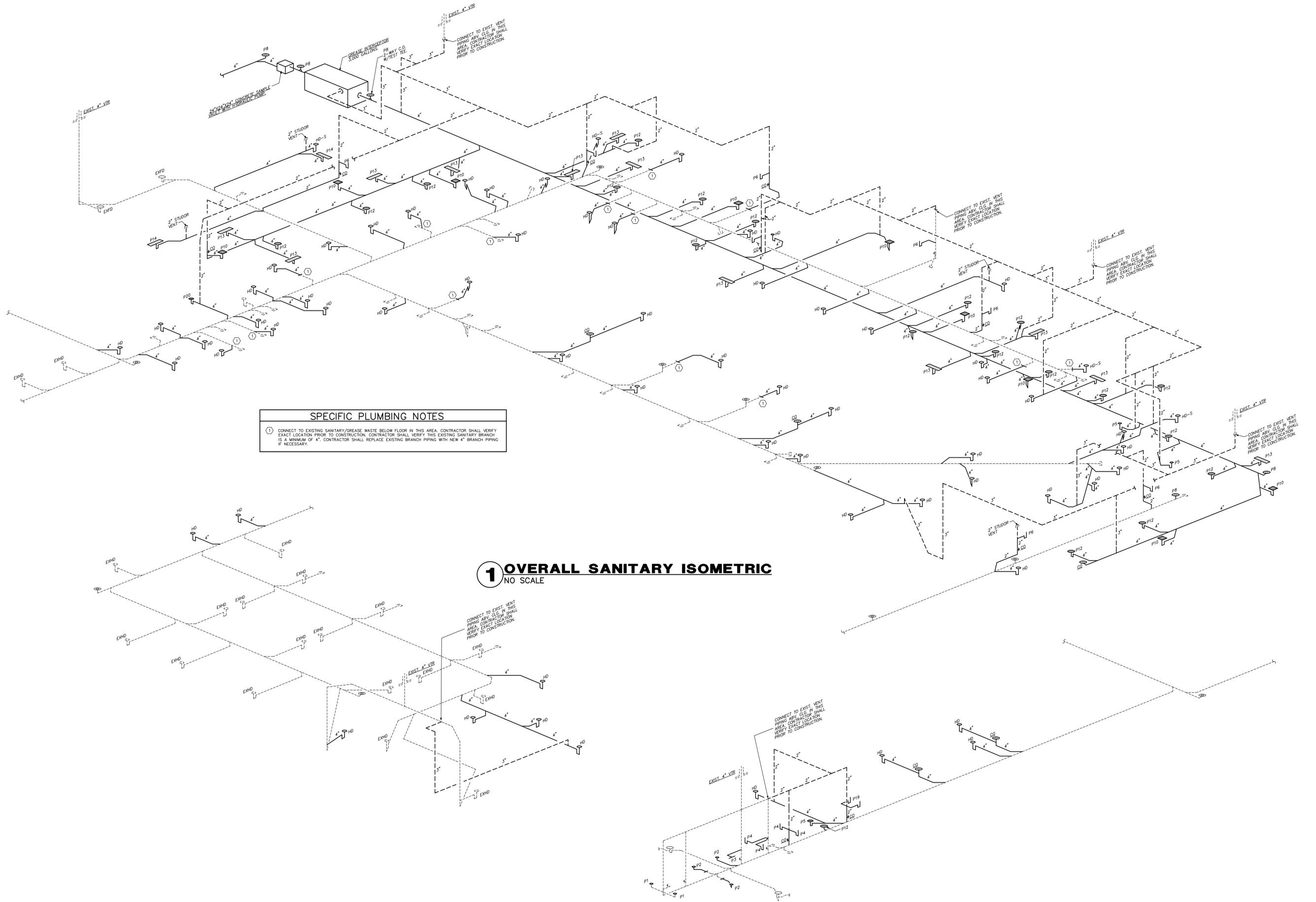
3 TYP. COOLER & FREEZER DRAIN DETAIL

NO SCALE



4 HUB DRAIN DETAILS

NO SCALE



SPECIFIC PLUMBING NOTES

① CONNECT TO EXISTING SANITARY/GREASE WASTE BELOW FLOOR IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THIS EXISTING SANITARY BRANCH IS A MINIMUM OF 4". CONTRACTOR SHALL REPLACE EXISTING BRANCH PIPING WITH NEW 4" BRANCH PIPING IF NECESSARY.

1 OVERALL SANITARY ISOMETRIC
NO SCALE