



FOOD LION
REMODEL
STORE #1208
13490 DUMFRIES RD
MANASSAS, VA 20112

PROJECT NO: 2019.017

DATE: 2-13-20

26 OF 47
P1.01

SANITARY SEWER AND
DRAIN PLAN

CHECKED: PD DRAWN: AE

PLUMBING LEGEND

	NEW CLEAN OUT FLUSH WITH FINISH FLOOR		REFRIGERATION EVAPORATORS
	EXISTING CLEAN OUT		CONNECT TO EXISTING
	EXISTING FLOOR SINK		ABOVE FINISH FLOOR
	NEW FLOOR DRAIN		EXISTING
	EXISTING FLOOR DRAIN		NEW CONDENSATE DRAIN LINES
	WALL CLEAN OUT (WCO)		NEW VENT LINES
	NEW HUB DRAIN WITH 4.5 BELL REDUCER		NEW SANITARY SEWER LINES
	EXISTING HUB DRAIN TO REMAIN EXISTING		GREASE WASTE EXISTING
	HUB DRAIN TO BE REMOVED		EXISTING WASTE LINE
	VENT THROUGH ROOF		EXISTING VENT LINE
	EXISTING VENT THROUGH ROOF		NO DRAIN WORK
	EXISTING LINE CAPPED OFF		TRENCH DRAIN

GENERAL NOTES

- IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COMPLY WITH STATE AND LOCAL PLUMBING CODES AND VERIFY THE ACCEPTABILITY OF SIMILAR, AS RELATED TO THE REQUIRED ITEMS, BUT NOT LIMITED TO, GREASE INTERCEPTORS, FLOW PREVENTERS.
 - PLUMBING CONTRACTOR SHALL VERIFY AND LABEL ALL ANY SPECIAL FIXTURES FOR CODE COMPLIANCE SUCH AS GREASE INTERCEPTORS, BACKFLOW PREVENTERS, ETC.
 - PLUMBING CONTRACTOR SHALL PROVIDE ALL VISIBLE HUB DRAINS WITH RECESSED "SNAP-IN" HUB SCREENS. NO "SNAP-IN" SCREENS ARE REQUIRED FOR HUB DRAINS UNDER CASES. ORDER DRAIN COVER FROM PLASTIC OBJECTS 1-800-433-5555 SHEET NO. 85-310
 - REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR RUNNING PVC DRAIN LINES FROM DRAINS ON CASES TO THEIR RESPECTIVE HUB DRAINS.
 - ALL SANITARY HUB DRAIN VENT PIPING SHALL BE NO-HUB ASSEMBLY, CAST IRON WITH STAINLESS STEEL BANDS OR PVC 40 ASTM-D2685
- QUALITY CONTROL NOTES:**
- GENERAL CONTRACTOR TO ENSURE:
- POSITIVE DRAINING IN PREP AREAS, RESTROOMS AND COOLERS.
 - CLEAN OUT COVERS AND TILE RINGS TO BE FLUSH WITH FINISH FLOOR TILE.
 - NO FLOOR CLEANOUTS SHALL BE LOCATED IN AREAS WITH ACRYLIC RESIN FLOOR WHERE POSSIBLE. SEE SHEET A1.05.
 - SEE SHEET P6.01 FOR HUB DRAIN INSTALLATION DETAILS.
- PLUMBING CONTRACTOR SHALL COORDINATE FLOOR DRAIN LOCATIONS WITH GENERAL CONTRACTOR AND SHEET A1.02.
 - PLUMBING CONTRACTOR TO VERIFY THAT ALL SANITARY DRAINS AND HUB DRAINS ARE CLEAR OF DEBRIS. HUB DRAINS ARE TO BE TEMPORARILY SEALED WITH PVC PLUG UNTIL A CASE IS INSTALLED OR CONDENSATE IS FLOWING.
 - ALL SANITARY TEES SHALL BE COMBINATION TEES.
 - DIMENSIONS ARE SHOWN FROM INTERIOR SURFACE OF EXTERIOR BUILDING WALLS OR COLUMN CENTER LINE, UNLESS OTHERWISE INDICATED. DIMENSIONS SHALL BE MAINTAINED WITHIN ONE INCH AS INDICATED ON PLANS.
 - PROVIDE 7'-0" FLOOR DRAIN-F-DOMESTIC-WATER-AND-FIRE-RESISTANT-PRESSURE-ZONE-ASSEMBLY (BAMF-PREVENTER-ARE-REQUIRED-BY-LOCAL-WATER-PURVEYOR-OR-AUTHORITY-HAVING-JURISDICTION-OVER-FLOOR-DRAIN-F-DOMESTIC-WATER-ASSEMBLY-TYPE-BACKFLOW-PREVENTER-IS-ACCEPTABLE).
 - HYDRA-COMPOSITE PIPING SHOWN ON THIS PLUMBING DRAWING FOR ROUTING PURPOSES.
 - V.I.R.'S SHALL BE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE. COORDINATE AS REQUIRED WITH MECHANICAL CONTRACTOR AND MECHANICAL PLAN.
 - P-10 SHALL BE USED WHEN BASKET STRAINER IS REQUIRED BY CODE.
 - PLUMBING CONTRACTOR TO CAP OFF EXISTING DRAINS, CLEANOUTS, ETC. AND ABANDONED SEWER LINES THAT CAN NOT BE REUSED. REPAIR FLOOR AS REQUIRED.
 - PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING DRAINS AND SANITARY SEWER LINES. PLUMBING CONTRACTOR TO REPORT ANY DISCREPANCIES TO THE DELHAIZE CONSTRUCTION SUPERVISOR.
 - WHERE EXISTING CLEANOUTS OCCUR UNDER CASEWORK, RELOCATE AS REQUIRED.
 - PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR:
 - INSTALLING/RELOCATING HUB DRAINS (4" BELL HUBS ARE REQUIRED WHERE TWO CASES SHARE ONE CONDENSATE HUB IN THE FLOOR FOR EXISTING CASES, 4" BELL HUBS REQUIRED WHERE CASES ARE NEW OR RELOCATED). ALL EXPOSED HUBS SHALL BE 4" BELL TYPE WITH PVC SCREEN INSERTS. (NO MORE THAN TWO CASES CAN BE PIPED TO ONE HUB). PLUMBING CONTRACTOR WILL BE REQUIRED TO INSTALL HUBS AS NOTED ON THE PLANS AND SHALL NOT COMBINE HUBS IN AREAS OF NEW WORK.
 - VERIFYING ALL HUB DRAIN PLACEMENTS WITH THE DRAWINGS, CASE MANUFACTURER SPECS, AND THE CONSTRUCTION SUPERVISOR. IF THIS IS NOT DONE, ALL ASSOCIATED COST WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL HUB DRAINS SHALL EXTEND ABOVE FINISHED FLOOR USING A 4" HUB BELL. (SEE HUB DRAIN DETAIL #3 ON SHEET P6.01)
 - HOOKING UP ALL PRODUCE & DAIRY CASE WATER QUICK CONNECTS.
 - REFRIGERATION CONTRACTOR TO INSTALL CASE DRAINS. CASE DRAINS TO BE CUT ON A 45° ANGLE WITH AN APPROPRIATE AIR GAP AS DICTATED BY THE LOCAL JURISDICTION. CASE DRAINS SHALL NOT BE VISIBLE OUTSIDE OF THE KICK PLATES. PLUMBING CONTRACTOR TO INSTALL/RELOCATE HUB DRAINS, EVAPORATOR COOL, CONDENSATE DRAINS. EACH CASE WILL BE PIPED TO ITS OWN CONDENSATE HUB. THE REFRIGERATION CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING PERMITS & FINAL INSPECTIONS FOR THEIR WORK.
 - PLUMBING CONTRACTOR SHALL ADJUST EXISTING FLOOR CLEANOUT COVERS TO BE FLUSH AND LEVEL WITH THE NEW FINISHED FLOOR. SEE BID NOTES FOR QUANTITY. NO STAINLESS STEEL COVER PLATES WILL BE ALLOWED. IF THE EXISTING CLEANOUT COVER IS OF THE ADJUSTABLE TYPE, THE CONTRACTOR SHALL RAISE OR LOWER THE COVER TO MATCH THE NEW FINISHED FLOOR ELEVATION. LEVELING SHALL BE ACCOMPLISHED BY CORE DRILLING OR SHOOTING SURFPOUR CONCRETE TO ACCESS THE LINE. PLUMB AND LEVEL THE COVER. REPLACE ANY DAMAGED CLEANOUT COVERS. IF THE EXISTING CLEANOUT COVER IS NOT OF THE ADJUSTABLE TYPE, THE CONTRACTOR SHALL CORE DRILL AROUND ROUND CLEANOUT COVERS OR SAWCUT AROUND RECTANGULAR COVERS TO ACCESS THE LINE. REPLACE THE CLEANOUT WITH AN ADJUSTABLE CLEANOUT AS SPECIFIED (SODAK SHEET #34-4PWS). VERIFY COMPATIBILITY WITH DRAIN LINES. REPLACEMENT CONCRETE WHERE CONCRETE HAS BEEN REMOVED TO ACCOMPLISH THE WORK SHALL BE MINIMUM 3000 PSI.
 - THE REFRIGERATION CONTRACTOR CAN THE DRAINS FROM ADJACENT CASES INTO THE SAME HUB DRAIN ABOVE SLAB. TWO CASE MAXIMUM PER HUB DRAIN.
 - PLUMBING CONTRACTOR TO RUN COPPER DRAIN LINE FOR WALK-IN EVAPORATOR COOLS.

WASTE AND VENT KEY NOTES

- EXISTING CONDENSATE DRAINS FROM EVAPORATORS TO REMAIN.
- NEW CONDENSATE LINES AT NEW EVAPORATOR. CONDENSATE NOTES ON SHEET P6.01.
- EXTEND 3" WASTE LINE TO NEW HUB DRAIN. VERIFY LOCATION WITH OWNER PRIOR TO CONSTRUCTION. REPAIR FLOOR TO MATCH EXISTING. SEE DETAIL ON SHEET P6.01.
- EXTEND 1/2" DRAIN FROM MISTING SYSTEM TO THE EXISTING HUB DRAIN.
- EXTEND 1/2" DRAIN FROM MISTING SYSTEM SOLENOID/MANFOLD BOX TO EXISTING HUB DRAIN DIRECTLY BELOW THE MANFOLD BOX.
- INSTALL NEW EYE WASH (P-33). SEE DETAIL #7 ON SHEET P6.01.
- RELOCATED ADA WATER CLOSET 4" CLOSER TO SIDE WALL AND TRAP LEVER ON OPEN SIDE OF STALL TO MEET ADA REQUIREMENTS. SEE SHEET A4.03 FOR DETAIL INDICATING DIMENSIONAL INFORMATION FOR EXACT LOCATION. ADJUST EXISTING WASTE PLUMBING AND WATER PIPING AS REQUIRED FOR RECONNECTION. PREPARE FLOOR AND WALL TO RECEIVE NEW FINISHES.
- RELOCATED ADA WATER CLOSET 1 1/2" CLOSER TO SIDE WALL WITH OFFSET FLANGE KIT AND TRAP LEVER ON OPEN SIDE OF STALL TO MEET ADA REQUIREMENTS. SEE SHEET A4.03 FOR DETAIL INDICATING DIMENSIONAL INFORMATION FOR EXACT LOCATION. ADJUST EXISTING WASTE PLUMBING AND WATER PIPING AS REQUIRED FOR RECONNECTION. PREPARE FLOOR AND WALL TO RECEIVE NEW FINISHES.
- RELOCATED EXISTING URINAL. SEE SHEET A4.03 FOR DETAIL INDICATING DIMENSIONAL INFORMATION FOR EXACT LOCATION. ADJUST EXISTING WASTE AND WATER PIPING AS REQUIRED FOR RECONNECTION. PREPARE WALL TO RECEIVE NEW FINISHES.
- RELOCATED EXISTING LAVATORY. SEE SHEET A4.03 FOR DETAIL INDICATING DIMENSIONAL INFORMATION FOR EXACT LOCATION. ADJUST EXISTING WASTE AND WATER PIPING AS REQUIRED FOR RECONNECTION. PREPARE WALL TO RECEIVE NEW FINISHES.
- REINSTALL EXISTING WATER CLOSET AFTER FINISH INSTALLATION. MAINTAIN EXISTING LOCATION.
- REINSTALL EXISTING LAVATORY AFTER FINISH INSTALLATION. MAINTAIN EXISTING LOCATION.
- THE DRAIN FOR THIS CASE INTO HUB DRAIN OF A SIMILAR ADJACENT CASE ABOVE SLAB.
- REINSTALL EXISTING HIGH-LOW DRINKING FOUNTAIN AFTER NEW WALL INSTALLATION. MAINTAIN EXISTING LOCATION.

NOTE
PER THE HEALTH DEPARTMENT, ALL NEW SINKS AND DRAINS NEED AIR GAP OR VACUUM AIR BREAKER TO PREVENT ANY BACK FLOW CONTAMINATION. REFER TO SHEET P6.01 DETAIL 5 FOR MORE INFORMATION.

708.5 Values for continuous and semi-continuous flow.
(Drainage fixture unit values for continuous and semi-continuous flow for a drainage system that is completed on the basis that 1 gpm (0.133 l/s) of flow is required to be used.)

2015 International Plumbing Code
(2015, 2018, Aug 2019)

FIXTURE DRAIN OR TRAP SIZE

FIXTURE DRAIN OR TRAP SIZE (inch)	DRAINAGE FIXTURE UNIT VALUE
1 1/2"	1
2"	2
3"	3
4"	4

GREASE TRAP SIZING CALCULATION
(BASED ON FIXTURE UNIT CALCULATION METHOD)

1 GPM = 3 DFU (BASED ON INTERNATIONAL PLUMBING CODE 708.3)
3" DRAIN TRAP SIZE FOR FLOOR SINK AND MDP SINK = 3 DFU
TOTAL FORMULA = 1 (GPM) X 3 (DFU) = 3

MEAT PREP
FLOOR SINKS (MEAT PREP - 3 COMP SINK) = (1) X 3 DFU = 3 DFU
MDP SINK (LANTERN ROOM) = (1) X 3 DFU = 3 DFU
TOTAL FORMULA = 3 (GPM) X 1 (DFU) = 3 GALLON

EXISTING GREASE INTERCEPTOR CAPACITY IS 21 GALLON BASED ON CONSTRUCTION REPORT.

DRAIN REPORT REPAIRS

THE FOLLOWING ITEMS HAVE BEEN NOTED AS DELHAIZE REQUIRED REPAIRS AS INDICATED IN THE CONSTRUCTION SERVICES, LLC DRAIN REPORT AND ALL COSTS INVOLVED IN MAKING THE REPAIRS SHALL BE INCLUDED IN THE PLUMBING CONTRACTOR'S SCOPE OF WORK FOR THIS PROJECT:

SMOKED MEAT ISSUE / SMOKED FROM C011.
LOCATION: INSIDE / MEAT PREP
DESCRIPTION: GREASE INTERCEPTOR C011 LEAKING SMOKE. RESPONSE: NEW SEAL SHOULD BE INSTALLED.

D-14 C014 LINE - FRACTURED CONNECTOR, (10'00 TO 2'00 LINE POSITION, NO SOIL VISIBLE)
LOCATION: OUTSIDE > REAR STORE LEFT
DESCRIPTION: FRACTURED CONNECTOR. ISSUE LOCATED 4' FROM REAR STORE WALL AND 42"6" LEFT OF LEFT DOOR WALL; LINE IS APPROXIMATELY 1" DEEP.
RESPONSE: AT C014 AT 10' SHOULD BE REMOVED.

FIELD VERIFY ALL EXISTING HUB DRAINS FOR ALL NEW/RELOCATED REFRIGERATED CASES AND RE-USE IF POSSIBLE.

EXISTING SALES AREA

REMODELED WORK ROOM

EXIST DELI/BAKERY STORAGE ROOM

EXIST DELI/BAKERY COOLER

EXIST DELI/BAKERY PREP

EXIST DELI/BAKERY FREEZER

EXIST DELI/BAKERY CLOSURE

EXIST DELI/BAKERY CLOSURE

EXIST DELI/BAKERY CLOSURE

EXIST DELI/BAKERY CLOSURE

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2 ROOFTOP MECHANICAL ROOM
P1.01 SCALE: 3/32" = 1'-0"

1 SANITARY SEWER AND DRAIN PLAN
P1.01 SCALE: 3/32" = 1'-0"



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