

GENERAL NOTES

1. GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.

2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS AND READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND EQUIPMENT

1 1/2"

MANUFACTURER RECOMMENDATIONS. 3. STORE MUST BE KEPT IN OPERATION. ARRANGE ALL WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS

TO A MINIMUM. COORDINATE WITH EXISTING AND NEW CONSTRUCTION. COORDINATE ANY DISRUPTIONS WITH CLUB MANAGER AND SAM'S CLUB CONSTRUCTION MANAGER. PAY ALL NECESSARY FEES AND PERMITS. 4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION, REPAIR OR CONSTRUCTION OF PLUMBING

5. IF NEW CONSTRUCTION WILL DISRUPT EXISTING UNDERGROUND SERVICES (GAS. SEWER. DOMESTIC WATER, FIRE SPRINKLER, ETC.), PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION. COORDINATE ANY DISRUPTIONS WITH CLUB MANAGER AND SAM'S CLUB CONSTRUCTION MANAGER.

RELATED EQUIPMENT. (REF D1, A1, AND A4).

MINIMUM OF 36" FROM ROOF EDGE AND/OR PARAPET WALLS. INSTALL VTR'S, FLUES AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE OF ROOF TOP UNITS. INSTALL EXHAUST FANS AND ROOF TOP UNITS A MINIMUM OF 10 FT FROM ROOF EDGE OR A MINIMUM OF 60" FROM PARAPET WALLS THAT ARE AT LEAST 42" HIGH.

6. INSTALL VTR'S A MINIMUM OF 24" AND FLUES A

7. PLUMBING VTR PIPES NOTED TO BE DEMOLISHED ON PLAN SHALL BE CUT 6" BELOW BOTTOM OF ROOF DECK. CAP ABANDONED VTR WATERTIGHT ABOVE AND BELOW ROOF. SECURE VENT PIPE FROM STRUCTURE WITH UNISTRUT AND PIPE CLAMP TO PREVENT MOVEMENT.

8. EXISTING PIPE SIZES AND LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING PIPING THAT IS BEING CONNECTED TO OR MODIFIED, AND TO VERIFY THAT PROPER SLOPES AND ELEVATIONS ARE AVAILABLE. MAINTAIN MINIMUM SLOPE OF 1/8" PER FOOT FOR SANITARY SEWER PIPING 4" OR LARGER. MAINTAIN MINIMUM SLOPE OF 1/4" PER FOOT FOR SANITARY SEWER PIPING SMALLER THAN 4". REF

ARCH. FOR TRENCHING REQUIREMENTS. 9. VERIFY EXISTING SEWER AND VENT PIPE SIZE ELEVATION, AND PROPER SLOPES ARE AVAILABLE BEFORE CUTTING FLOOR SLAB FOR NEW SEWER PIPING FOR FLOOR SLABS NOT SHOWN TO BE REMOVED ON THE DEMOLITION PLAN.

10.PROVIDE ACCESS DOORS TO ALL INACCESSIBLE WATER VALVES AND CLEANOUTS.

11.PLUMBING CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY FOR PROPER SEWER SYSTEM OPERATION.

12. SANITARY DRAINAGE LINES AND FITTINGS (DRAIN, WASTE AND VENT) SHALL BE PVC-DWV PLASTIC SCHEDULE 40. WHERE REQUIRED BY LOCAL CODES, CAST IRON, COATED INSIDE AND OUTSIDE SHALL BE USED. ALL PHOTOLAB PLUMBING SHALL BE PVC. REFER TO SPECIFICATIONS.

13.PROVIDE AUTOMATIC TRAP PRIMERS ON FLOOR DRAINS IF REQUIRED BY LOCAL PLUMBING CODES. 14.ALL FLOOR CLEANOUTS SHALL BE INSTALLED FLUSH

CONCRETE SLAB IF NO FLOOR FINISH MATERIAL IS CALLED OUT FOR ON ARCHITECTURAL DRAWINGS. 15.LOCATE ALL FLOOR CLEANOUTS OUT OF TRAFFIC WAYS WHILE MAINTAINING ACCESSIBILITY. LOCATE

WITH FLOOR FINISH MATERIAL OR FLUSH WITH

PER DIMENSIONS IF SHOWN ON PLANS. 16.FLOOR CUTS SHALL BE STRAIGHT AND CLEAN, REPLACE REMOVED SLAB WITH CONCRETE FLUSH AND SMOOTH WITH ADJACENT FLOOR SLAB. COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL

17.CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE.

18.CUT AND PATCH EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW UNDERGROUND PLUMBING PIPE. MATCH EXISTING CONSTRUCTION.

19.DO NOT INSTALL PIPING WITHIN COOLER PANELS. INSTALL EXPOSED PIPING IN PREP AREAS A MINIMUM OF 1" FROM PANEL WALL AND 6" ABOVE FINISHED FLOOR TO ALLOW FOR CLEANING. USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.

20.PROVIDE ESCUTCHEON PLATES FOR PLUMBING PENETRATIONS THROUGH GROCERY CEILINGS AND

21.PROVIDE AIR TIGHT SEAL AROUND PIPING PENETRATIONS THROUGH COOLER/FREEZER WALLS AND CEILINGS. FINISH WITH ESCUTCHEON PLATE.

22.PROVIDE HEAT TAPE AND INSULATION ON ALL WATER AND DRAIN PIPING EXPOSED TO FREEZING.

23.INSTALL CONTINUOUS SEALANT JOINT AT ALL EXTERIOR WALL PENETRATIONS. 24.PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC DESIGN CATEGORY

REQUIREMENTS PER SMACNA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING. 25.EXISTING CONDITIONS ARE BASED UPON PREVIOUS

CONSTRUCTION DRAWINGS AND/OR SITE VISIT AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS, SIZES AND LOCATIONS OF EQUIPMENT PRIOR TO FINAL BID. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS AS

26.BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.

27.INSTALL CENTERLINE OF GROCERY AREA UTILITY WALL PENETRATIONS AND WALL CLEANOUTS AT 12" AFF MINIMUM.

28.REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULES FOR ALL PIPING AND PIPE SIZES NOT SHOWN ON PLAN. RISER DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT REFLECT EVERY OFFSET, RISER OR UNION. PIPE FITTINGS AND UNIONS, IF SHOWN ON THE RISER, SHALL NOT BE USED FOR TAKE-OFF OR ESTIMATING PURPOSES.

29. ALL UNISTRUT, UNISTRUT CLAMPS AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.

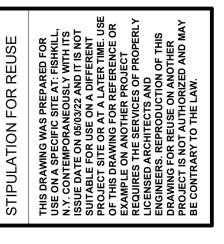
24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND E-MAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. THEN SEND A FOLLOW UP E-MAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND

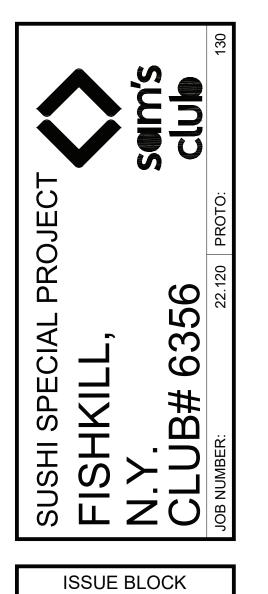
EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

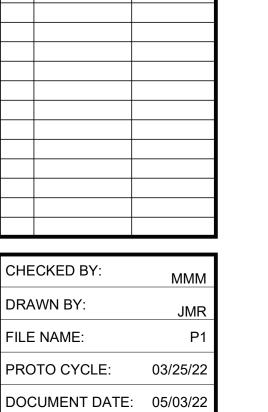
EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS INFORMATION.

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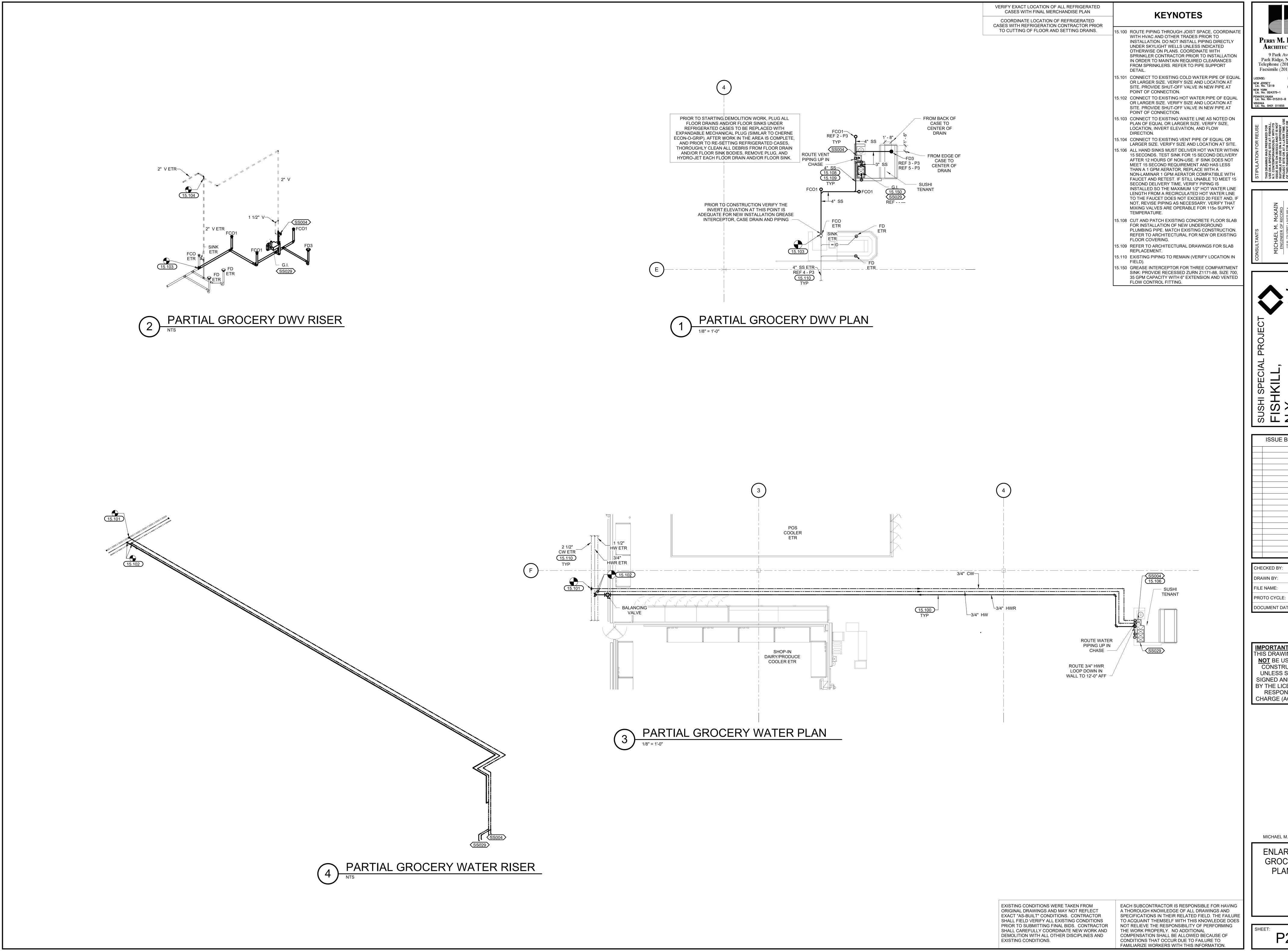




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PLUMBING



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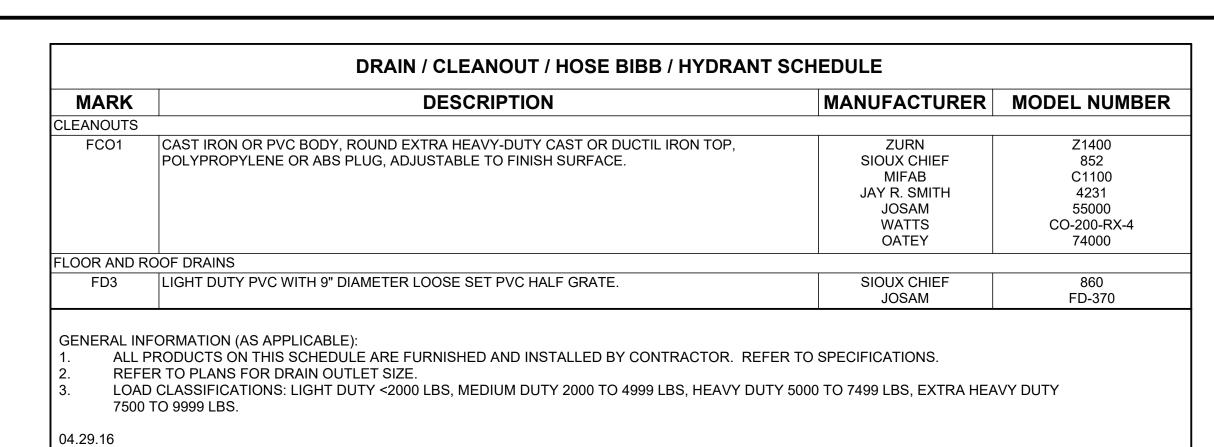
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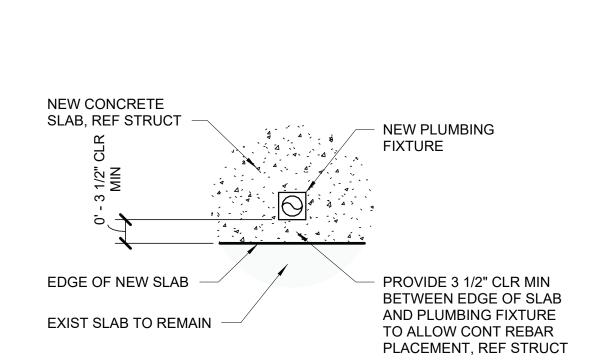
MICHAEL M. McKAIN

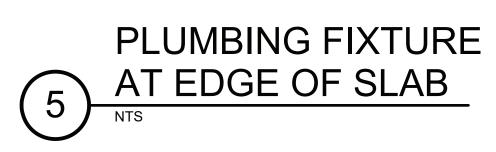
ENLARGED GROCERY

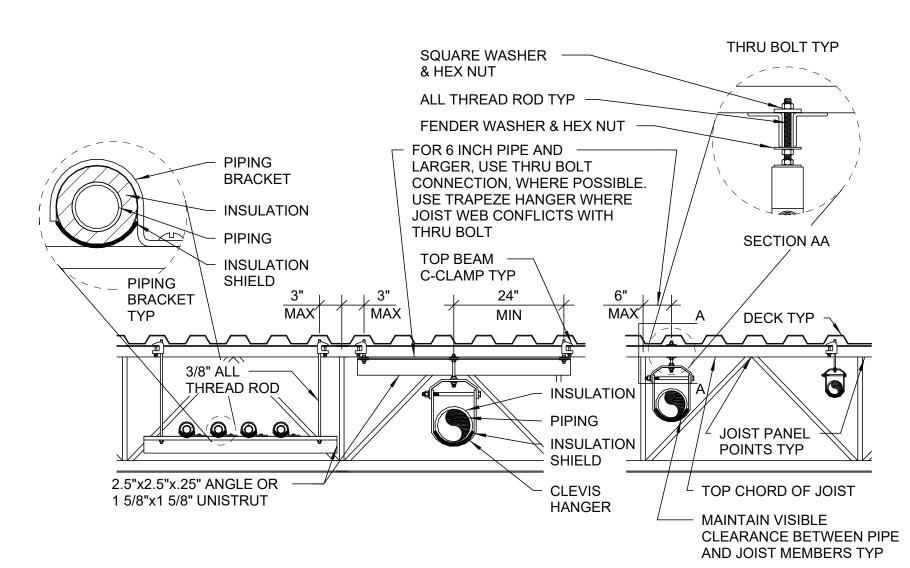
		SPECIALTY PLUMBING FIXTU	IRE SCHEDULE							
ИARK	FIXTURE	FIXTURE DESCRIPTION								
,, ,, ,, ,,	, , , , , , , , , , , , , , , , , , ,	MANUFACTURER/CATALOG NUMBER								
WHA	WATER HAMMER ARRESTOR	LEAD FREE, CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010.								
	JOSAM SERIES 75000	PRECISION PLUMBING PRODUCTS SS #316 SERIE	S WATTS SS SERIES	WILKINS MODEL 1250XL SERIE						
	JAY R. SMITH HYDROTROLS	SIOUX CHIEF HYDRA-RESTER	MIFAB MWH							
	VALVES (DO NOT USE FOR GAS)	LEAD FREE, FULL PORT BRASS BALL VALVE WITH	HPLASTIC JACKETED LEVER TYPE HA	NDLE.						
	RED-WHITE 5044AB OR 5049AB	APOLLO SERIES 70LF CRANE LF9210 SE	RIES WATTS LF-FBV-3C OR F	BVS-3C NIBCO FP-600-A-LF						
	GAS VALVES	QUARTER TURN BALL VALVE, UL LISTED FOR NA- ENDS, BRONZE BODY, CHROME PLATED BRASS E ADJUSTABLE PACKING GLAND, VINYL COVERED S	BALL, TEFLON OR "TFE" SEATS AND S							
	CONBRACO (APOLLO)	NIBCO T-585-70-UL SERIES (1/2" - 1")	WATTS B6000-UL SERIE	ES (1/4" - 4")						
	80-100 SERIES (1/4" - 3")	T-580-70-UL SERIES (1 1/4" - 3")								
	DOUBLE-CHECK VALVE	LEAD FREE, INCLUDE TWO INDEPENDENT-ACTING	G CHECK VALVES, TWO SHUT-OFF VA	ALVES, AND						
	BACKFLOW PREVENTER	REQUIRED MEANS FOR TESTING FOR EACH ASSI	EMBLY. MINIMUM 175 PSI WORKING P	RESSURE.						
	WATTS LF007QT OR LF709	FEBCO LF850 WILKINS 350XL OF	R 950XLT2							
	REDUCED PRESSURE	LEAD FREE, PROVIDE STRAINER, SHUT-OFF VALV	/ES AND TEST COCKS: INSTALL DRAI	N LINE WITH AIR GAP ASSEMBLY TO						
	BACKFLOW PREVENTER	RECEPTOR APPROVED BY AUTHORITY HAVING J	URISDICTION. MINIMUM 175 PSI WOR	KING PRESSURE.						
ĺ	WATTS LF009QT OR LF909	FEBCO LF860 WILKINS 375XL OF	R 975XL							
	TRAP PRIMER	LEAD FREE, PROVIDE ALL BRONZE PRIMER VALV	E WITH REMOVABLE OPERATING PAR	RTS, INTEGRAL						
	(SINGLE TRAP)	VACUUM BREAKER, AND GASKETED ACCESS CO	VER.							
	PRECISION PLUMBING PRODUCTS PRIME	E-RITE OR OREGON #1 SIOUX CHIEF 695								
	TRAP PRIMER	LEAD FREE, PROVIDE ALL BRONZE PRIMER VALV	E WITH REMOVABLE OPERATING PAI	RTS, INTEGRAL						
	(MULTIPLE TRAPS)	VACUUM BREAKER, GASKETED ACCESS COVER,	AND MULTIPLE TRAP CAPABILITY							
	PRECISION PLUMBING PRODUCTS PRIME	E-RITE OR OREGON #1 MIFAB M-500-NPB	JOSAM 88300	SIOUX CHIEF SERIES 695						
	VACUUM RELIEF VALVE	LEAD FREE, BRASS BODY. CSA/ANSI Z21.22								
	WATTS LFN36-M1									
	WATER PRESSURE GAUGE	2.5 INCH STAINLESS STEEL CASE, ALL WETTED P 1.6% ACCURACY, 30" HG VAC TO 100 PSI RANGE.	ARTS STAINLESS STEEL, LIQUID FILL	ED, 1/4 INCH NPT CONNECTIOR						
	AMETEK 656	TRERICE D83LFSS2502BA050	WEISS INSTRUMENTS L	F252						

MARK	FIXTURE	CW	FW	HW	WASTE	VENI	ROUGH-IN REQUIREMENTS	NOTES
SS004	HAND SINK	1/2"		1/2"	2"	1 1/4"	WATER: 18" AFF WASTE: 18" AFF	B, C, I, O
SS029	3-COMPARTMENT SINK	3/4"		3/4"	(IND)		WATER: 12" AFF	C, D, F, M, I
1. EQUIPMENT NOTES: A. PROVIDE SH B. PROVIDE P- C. PROVIDE CH D. SINK FAUCE E. PROVIDE FL F. IF PLUMBING NOT APPLY. G. PROVIDE BA H. PROVIDE ST COPPER OR I. INSTALL THE THERMOSTA J. INSTALL THE K. ROUTE 1 1/2 RD024 FURN L. ROUTE RD0. M. INSTALL 1.2 SPRAY HEAI N. ATTACH SIN HOLES DRIL AND THREE SINKS TO CO O. REFER TO A	ACKFLOW PREVENTER ON WATER SUPPLICATION OF THE	CHEON. STOPS WITH ESCALVES. END OPEN OVER NK INDIRECTLY Y PER LOCAL CO OF CARBONATO WITH SINK WITH ET AT 105°F. AND QUICK-DISC ED AUTO GREAS OTISSERIE PIPIN GAP. ROUTE GI YER FURNISHED ED STAINLESS S ANGE OF SINK E MPARTMENT SIN H SCREWS AT 12	CUTCHE R RECEF CONNEC ODE RE E SERVI OR BACK H HARD- CONNEC SE SEPA G DETAI REASE S BY FIXT	CON AND CTOR WI CTED TO QUIREM NG CAR (FLOW F PIPED C TS FURI ARATOR IL. SEPARA TURE MA LOTTED LASH. F O CONNE	FLEXIBLE R TH 2" AIR GA D FLOOR SIN ENTS. BONATOR P PREVENTER. CONNECTION NISHED WITH , ROUTE 1" A ANUFACTURI FOR FRAMED ECT TO WALL ONG BACKS	ISER. IP. IK OR HU ER LOCA IS TO AN H OVEN. JUTO-CLE TO FLOO! ER. PLU! D FASTE) WALLS, L STUDS. PLASH.	TRACTOR, UNLESS NOTED OTHERWISE. IB DRAIN, THEN WASTE ROUGH-IN HEIGHT AND IL CODE REQUIREMENTS. PROVIDE PEX TUBIN GLE STOPS AND FLEXIBLE CONNECTIONS BETO EAN DISCHARGE TO FLOOR SINK. ROUTE OVEN R SINK WITH AIR GAP. REFER TO ROTISSERIE IN MBING CONTRACTOR SHALL PROVIDE OWNER ENERS OR SHEET METAL SCREWS INSTALLED TO USE TWO EVENLY SPACED FASTENERS FOR PORTOR SINKS INSTALLED ON COOLER PANEL WA	G (NOT WEEN N DRAINS TO PIPING DETAIL. WITH ORIGINAL THROUGH PREP SINKS ALLS, ATTACH









1. UTILIZE FOR ALL PIPING EXCEPT SPRINKLER, ROOF DRAIN, AND REFRIGERATION PIPING. 2. SPACE HANGERS AND SUPPORTS IN ACCORDANCE WITH SPECIFICATIONS. 3. LOCATE HANGERS WITHIN 3 INCHES OF JOIST PANEL POINTS U.N.O. 4. DO NOT SUPPORT PIPING FROM BOTTOM CHORD OF BAR JOISTS. 5. INDIVIDUAL PIPES 3 INCH AND SMALLER NOT REQUIRED TO BE WITHIN 3 INCHES OF PANEL POINT. 6. FOR PIPE RUNNING PARALLEL TO JOISTS, ATTACH TRAPEZE BEAM CLAMPS TO JOISTS ON EACH SIDE OF PIPE TYP. 7. TRAPEZE HANGERS AND ALL THREAD RODS ARE SIZED TO CARRY (MAX) 6 - 3 INCH DIAMETER COPPER PIPES FULL OF WATER (37.62 LBS/FT) OR EQUIVALENT. IF LOAD EXCEEDS MAXIMUM, CONTACT THE EOR FOR PROPER SIZING.

·		. '
SS	SANITARY SEWER (SS)	
——GW——	GREASE WASTE (GW)	
A	COMPRESSED AIR (A)	
v	PLUMBING VENT (V)	
——т——	TEPID WATER (T)	
——110°——	TEMPERED WATER (110°)	
ST	STORM PIPING (ST)	
—	SHUT OFF VALVE (SOV)	
₩C	SHUT OFF VALVE IN RISE	
— ю — э	RISE AND FALL IN PIPE	
— o FCO	NEW FLOOR CLEANOUT (FCO)	
	EXISTING FLOOR CLEANOUT (FCO)	
	EXISTING ITEMS TO BE REMOVED OR RELOCATED (SHOWN HATCHED AND NOTED)	
	FLOOR DRAIN, CASE DRAIN &	
	FUNNEL FLOOR DRAIN (FFD) PREP AREA DRAIN & STOCKBOOM FLOOR DRAIN (FD)	
	STOCKROOM FLOOR DRAIN (FD) FOOD SINK DRAIN (FS)	
	TRENCH DRAIN (TD)	-
	PLUMBING RISER NUMBER	
	CONNECT TO EXISTING	
X XX	- DETAIL NUMBER - SHEET NUMBER	
AFF	ABOVE FINISHED FLOOR	
BFF	BELOW FINISHED FLOOR	
3CS	THREE-COMPARTMENT SINK	
CTS	COUNTERTOP SINK	
DEMO	DEMOLISH AND REMOVE FROM PREMISES	
ETR	EXISTING TO REMAIN	
EW	EYEWASH	
EWC	ELECTRIC WATER COOLER	
FD	FLOOR DRAIN	
FS	FLOOR SINK	
FPWH	FREEZE PROOF WALL HYDRANT	
МНВ	MIXING HOSE BIBB	
HS	HAND SINK	
I.E.	INVERT ELEVATION	
НВ	HOSE BIBB	
MS	MOP SINK	
PS	PREP SINK	
UR	URINAL	
VBF	VENT BELOW FLOOR	
VBG	VENT BELOW GRADE	
VTR	VENT THRU ROOF	
WC	WATER CLOSET	
i T		

WATER HEATER

PLUMBING SYMBOLS

DOMESTIC COLD WATER (CW)

DOMESTIC HOT WATER (HW)

HOT WATER RECIRCULATION (HWR)

1t DENOTES GROCERY AND SNACK BAR

? PLUMBING KEY NOTES.

EQUIPMENT. REFER TO GROCERY PLUMBING

EQUIPMENT CONNECTION SCHEDULE.

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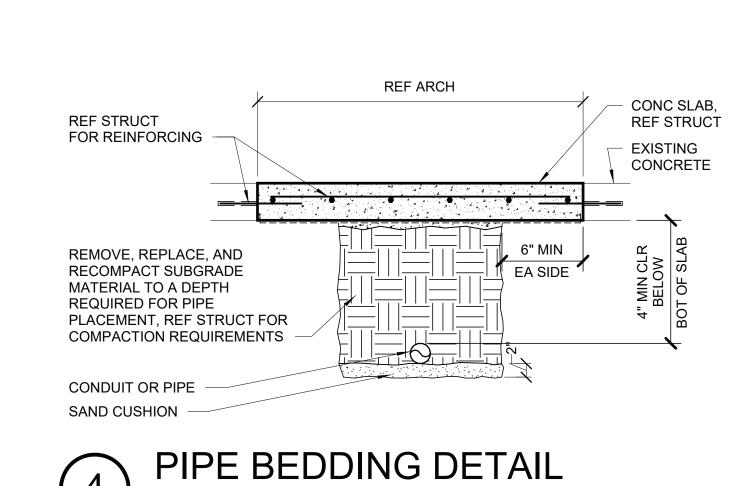
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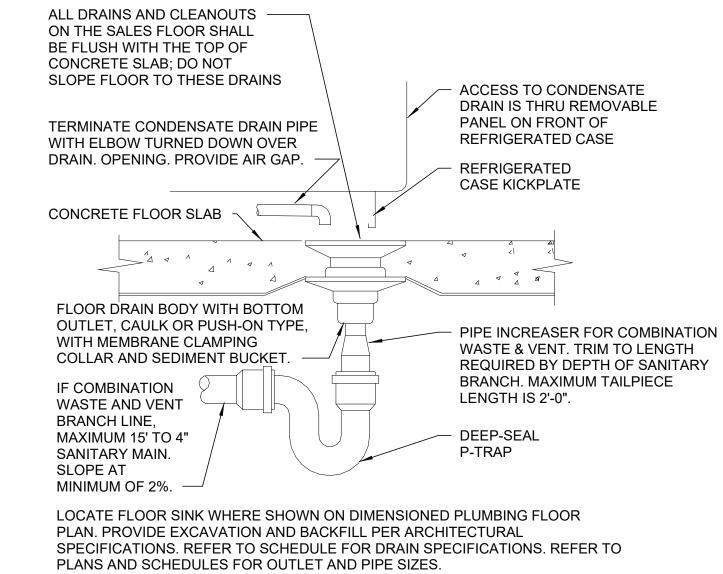
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PLUMBING **DETAILS AND** SCHEDULES











- MEMBRANE CLAMP

FLOOR SLAB ON GRADE

SAME SIZE AS SEWER

- LONG SWEEP ELBOW AT

END OR TURN OF RUN

UP TO 4" MAXIMUM