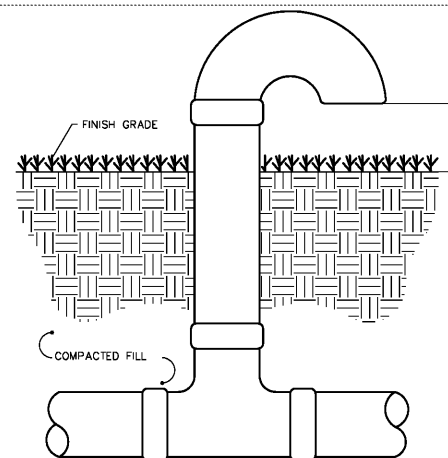


- NOTES:
 1. TRAP PRIMER SHALL BE LOCATED TO ALLOW ACCESS FOR MAINTENANCE.
 2. 1/2" TYPE 'K' COPPER WITH NO JOINTS FROM TRAP PRIMER UNIT TO FLOOR DRAINS
 3. PROVIDE ACCESS PANEL FOR T.P.'S LOCATED INSIDE CHASES OR ANY OTHER INACCESSIBLE LOCATION

TRAP PRIMER DETAIL

SCALE: NTS



RELIEF VENT DETAIL

SCALE: NTS

PLUMBING BRANCH SCHEDULE								
ITEM	DRAINAGE FIXTURE UNIT	COLD WATER FIXTURE UNIT	HOT WATER FIXTURE UNIT	DESCRIPTION	SAN.	TRAP	H.W.	C.W.
HCWC	4	PUBLIC 10 PRIVATE 6	-	HANDICAPPED WATER CLOSET - FLUSH VALVE	4"	-	-	1"
WC	4	PUBLIC 10 PRIVATE 6	-	WATER CLOSET - FLUSH VALVE	4"	-	-	1"
HCWC	4	PUBLIC 10 PRIVATE 6	-	HANDICAPPED WATER CLOSET - FLUSH TANK	4"	-	-	1/2"
WC	4	PUBLIC 10 PRIVATE 6	-	WATER CLOSET - FLUSH TANK	4"	-	-	1/2"
HCUR	4	5	-	HANDICAPPED URINAL	3"	-	-	3/4"
UR	4	5	-	URINAL	3"	-	-	3/4"
HCLAV	1	PUBLIC 1.5 PRIVATE 0.5	PUBLIC 1.5 PRIVATE 0.5	HANDICAPPED LAVATORY WALL MOUNTED	2"	1-1/4"	1/2"	1/2"
LAV	1	PUBLIC 1.5 PRIVATE 0.5	PUBLIC 1.5 PRIVATE 0.5	LAVATORY COUNTERTOP	2"	1-1/4"	1/2"	1/2"
HCSH	2	PUBLIC 3 PRIVATE 1	PUBLIC 3 PRIVATE 1	HANDICAPPED SHOWER	2"	1-1/2"	1/2"	1/2"
SH	2	PUBLIC 3 PRIVATE 1	PUBLIC 3 PRIVATE 1	SHOWER	2"	1-1/2"	1/2"	1/2"
HCBT	2	PUBLIC 3 PRIVATE 1	PUBLIC 3 PRIVATE 1	HANDICAPPED BATHTUB	2"	1-1/2"	1/2"	1/2"
BT	2	PUBLIC 3 PRIVATE 1	PUBLIC 3 PRIVATE 1	BATHTUB	2"	1-1/2"	1/2"	1/2"
BD	1	1.5	1.5	BIDET	2"	1-1/4"	-	1/2"
EWC	0.5	0.25	-	ELECTRIC WATER COOLER BARRIER FREE	2"	1 1/4"	-	1/2"
HI/LO DF	1	0.5	-	HANDICAPPED HI/LO DRINKING FOUNTAIN	2"	1 1/4"	-	1/2"
HCDF	0.5	0.25	-	HANDICAPPED SINGLE DRINKING FOUNTAIN	2"	1 1/4"	-	1/2"
SK	2	PUBLIC 1 PRIVATE 1	PUBLIC 1 PRIVATE 1	SINK (PUBLIC - HOTEL, RESTAURANT - SINK ONLY)	2"	1-1/2"	1/2"	1/2"
DW	2*	-	PRIVATE 1.4*	DISH WASHER, PRIVATE	2"	1-1/2"	1/2"	-
WM	2	1	1	CLOTHES WASHER - PRIVATE, 8LBS	3"	2"	3/4"	3/4"
WM	3	2.25	2.25	CLOTHES WASHER - PUBLIC, 8LBS	3"	2"	3/4"	3/4"
WM	3	3	3	CLOTHES WASHER - PUBLIC, 15LBS	3"	2"	3/4"	3/4"
LT	2	1	1	LAUNDRY TRAY	2"	1-1/2"	1/2"	1/2"
JS, MS, OR SS	2	2.25	2.25	JANITOR'S SINK, MOP SINK, OR SERVICE SINK	2"	1-1/2"	1/2"	1/2"

SOME ITEMS MAY NOT BE USED.
 *WHERE APPLICABLE.

Order Plans @

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY (a)
LAVATORY, PRIVATE	1.5 GPM @ 60 PSI
LAVATORY, PUBLIC (METERING)	0.25 GPM PER METERING CYCLE
LAVATORY, PUBLIC (OTHER THAN METERING)	0.5 GPM @ 60 PSI
SHOWER HEAD (g)	2.0 GPM @ 80 PSI
SINK FAUCET	1.0 GPM @ 60 PSI
URINAL	0.5 GALLON PER FLUSHING CYCLE
WATER CLOSET	1.28 GALLON PER FLUSHING CYCLE
DISHWASHER (RESIDENTIAL) (*)	(ENERGY STAR/WATER SENSE CERTIFIED) LESS THAN 1.2 GALLONS PER RACK FOR FILL AND RINSE MACHINES AND LESS THAN 0.9 GALLONS PER RACK FOR LOW TEMPERATURE MACHINES
DISHWASHER (COMMERCIAL)	1.0 GALLONS PER RACK FOR HIGH TEMPERATURE MACHINES AND 1.7 GALLONS PER RACK FOR LOW TEMPERATURE MACHINES
WASHER UNDER COUNTER MACHINES (COMMERCIAL)	1.0 GALLONS PER RACK FOR HIGH TEMPERATURE MACHINES AND 1.7 GALLONS PER RACK FOR LOW TEMPERATURE MACHINES
WASHER MACHINES (a)	WATER FACTOR OF 8 OR LOWER (ENERGY STAR/WATER SENSE CERTIFIED) (g)

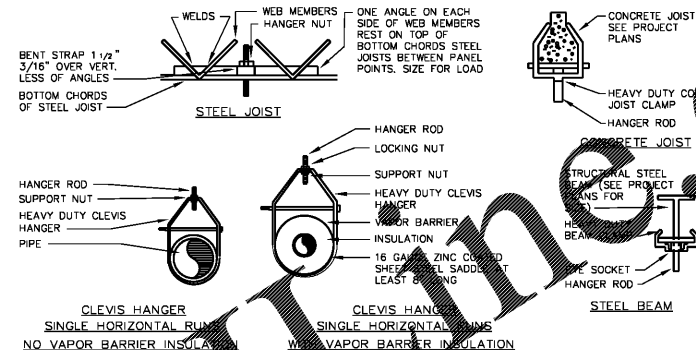
IF INSTALLED:
 a. A HANDICAPPED SHOWER SPRAY IS A SHOWER HEAD.
 b. CONSUMPTION TOLERANCES SHALL BE DETERMINED FROM REFERENCE STANDARDS.
 c. WATER FACTOR IN GALLONS PER CYCLE PER CUBIC FOOT.

EXCEPTIONS:
 1. BLOWOUT DESIGN WATER CLOSETS HAVING A MAXIMUM WATER CONSUMPTION OF 3.5 GALLONS (13L) PER FLUSHING CYCLE.
 2. VEGETABLE SPRAYS.
 3. CLINICAL SINKS HAVING A MAXIMUM WATER CONSUMPTION OF 4.5 GALLONS (17L) PER FLUSHING CYCLE.
 4. SERVICE SINKS.
 5. EMERGENCY SHOWERS.
 6. ALL FIXTURE, FITTINGS, AND APPLIANCES WITH U.S. ENVIRONMENTAL AGENCY WATERSENSE® (EPA) LABEL.

PLUMBING SPECIFICATIONS

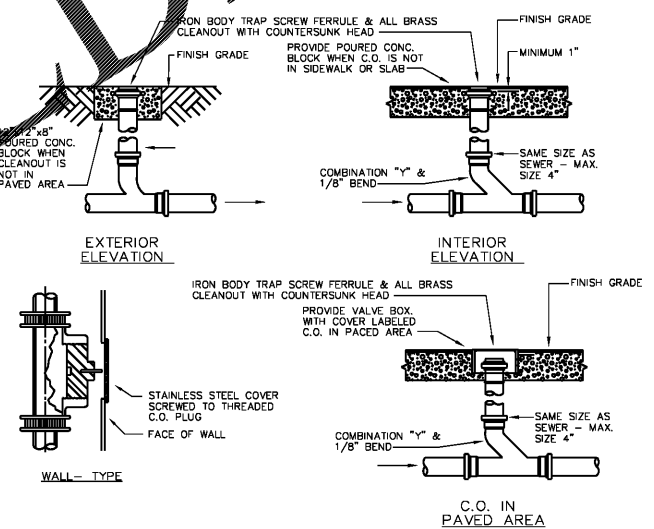
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCE. ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS, AND OF AMERICAN MANUFACTURE. ALL REQUIREMENTS AND MATERIALS SHALL BE AS PROVIDED FOR ORIGINAL BUILDING AND AS INDICATED IN THESE DRAWINGS AND SPECIFICATIONS.
- SANITARY, WASTE, VENT, AND STORM PIPING SHALL BE CENTRIFUGAL CAST IRON BELL AND SPIGOT BELOW GRADE AND NO-HUB SYSTEM WITH STAINLESS STEEL COUPLINGS ABOVE GRADE EXCEPT VENTS ABOVE GRADE MAY BE SCHEDULE 40 GALVANIZED IRON, WHERE ALLOWED BY LOCAL AUTHORITIES DWV PVC MAY BE USED INSTEAD OF CAST IRON AND GALVANIZED.
- CONDENSATE DRAINS ABOVE GROUND SHALL BE INSULATED COPPER TYPE "M" OR DWV AS SPECIFIED FOR SANITARY PIPING. BELOW GROUND SHALL BE DWV AS SPECIFIED FOR SANITARY PIPING.
- POTABLE WATER PIPING BELOW GROUND SHALL BE TYPE "K" SOFT TEMPER AND HOT AND COLD WATER PIPING ABOVE GROUND SHALL BE TYPE "L" HARD TEMPER COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SOLDER-FREE JOINTS. POTABLE WATER PIPING SHALL NOT BE INSTALLED BELOW ANY FLOOR ON GRADE OR FILL.
- PIPE SUPPORTS SHALL BE PROVIDED TO BE COMPATIBLE WITH PIPING, INSULATION, STRUCTURE, AND COMPENSATE FOR CONTRACTION AND EXPANSION.
- THE CONTRACTOR SHALL CONNECT TO ALL EQUIPMENT FURNISHED BY THE OWNER.
- EACH NEW FIXTURE AND EQUIPMENT SUPPLY SHALL BE PROVIDED WITH A SUPPLY STOP OR SHUT-OFF VALVE AS APPLICABLE.
- WATER HAMMER ARRESTORS SHALL BE PROVIDED AND INSTALLED AS PER PDI-WM 201 & FPC 604.9.
- PROVIDE DIELECTRIC FITTINGS IN ALL PIPING SYSTEMS WHERE CONNECTING DISSIMILAR MATERIALS AND PROTECT AGAINST CONTACT OF DISSIMILAR THROUGHOUT THE INSTALLATION.
- INSULATE ALL HOT WATER, CONDENSATE DRAINS, AND WATER COOLER WASTES PROVIDED.
- INSULATE HOT WATER PIPING WITH 1" ARMAFLEX INSULATION.
- INSULATE ALL AIR CONDITIONING AND REFRIGERATION CONDENSATE DRAINS IN PLENUM AREAS. FINISH WHERE EXPOSED WITH 2 COATS OF WHITE LATEX PAINT ALL AS PER THE MANUFACTURER'S INSTRUCTIONS.
- ALL HOSE BIBBS AND HOSE CONNECTIONS THIS PROJECT SHALL BE PROVIDED WITH VACUUM BREAKERS AND SHALL BE SEPARATELY VALVED.
- ALL WATER, SOIL, WASTE, VENT, AND STORM PIPING PROVIDED SHALL BE TESTED PER FPC 312 TESTS AND INSPECTIONS.
- CONTRACTOR SHALL OBTAIN APPROVED MANUFACTURER'S INSTALLATION DRAWINGS FOR ALL EQUIPMENT AND CASEWORK AND CASEWORK DIMENSIONED ROUGH-IN LAYOUT PRIOR TO PROCEEDING WITH ANY WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIXTURE, CASEWORK, AND EQUIPMENT ROUGH-IN DIMENSIONS AND CORRECT FLOOR AND WALL PENETRATION.
- SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND EQUIPMENT TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
- CONTRACTOR SHALL PROVIDE ALL SYSTEMS INDICATED IN THE SPECIFICATIONS ON THE DRAWINGS AND AS REQUIRED TO COMPLY WITH LOCAL CODES AND ORDINANCES AS APPLICABLE TO COMPLETING AND/OR INTENDING TO APPLY. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS FOR THE CONTRACTOR TO PROVIDE COMPLETE AND OPERATING INSTALLATIONS INCLUDING PREVIOUSLY NEEDED ITEMS EVEN THOUGH ITEMS ARE NOT INCLUDED ON THE DRAWINGS OR IN SPECIFICATIONS.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BIDDING COMPLETELY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK.
- PROVIDE TEMPORARY POTABLE WATER SERVICE AS REQUIRED ON SITE FOR ALL TRADES.
- VERIFY ALL DIMENSIONS AND STRUCTURE PRIOR TO ANY FABRICATION OR INSTALLATION.
- CUT ALL OPENINGS AND CHANGES REQUIRED TO ACCOMMODATE THE WORK BY THIS CONTRACTOR AND REPAIR ALL DOORS, WALLS, ETC. DAMAGED BY SUCH CUTTINGS. WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO ALL LOCAL AND STRUCTURAL REQUIREMENTS, AND FINISH AND QUALITY OF WORKMANSHIP REQUIRED OF APPLICABLE TRADES FOR THE BUILDING.
- PROVIDE ACCURATE LAYOUT, GRADES, AND ELEVATIONS. SET SLEEVES AND OPENINGS EARLY TIME. TAKE PROPER PRECAUTIONS TO PROTECT ALL WORK AND EQUIPMENT FROM DAMAGE INCLUDING EXISTING.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCES WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- PROVIDE FIXTURES AND WATER HEATERS AS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL PERFORM AND/OR PAY FOR ALL TESTS INDICATED AND REQUIRED FOR ALL SYSTEMS PROVIDED.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TAXES REQUIRED TO INSTALL AND COMPLETE SYSTEMS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- AT COMPLETION OF WORK REMOVE ALL RUBBISH AND DEBRIS CAUSED BY THIS WORK AND THOROUGHLY CLEAN ALL RELATED FIXTURES AND EQUIPMENT.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN 1 (ONE) YEAR FROM DATE OF ACCEPTANCE.
- CONTRACTOR TO KEEP ACCURATE AS-BUILTS AND SHALL SUBMIT THREE (3) COPIES TO ARCHITECT/ENGINEER SEVENTY TWO (72) HOURS PRIOR TO FINAL INSPECTION.
- CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER IMMEDIATELY UPON ANY DISCREPANCIES, IF FOUND.
- ALL EQUIPMENT CONNECTED FOR CONSUMPTION TO HAVE BACKFLOW PREVENTER.
- ALL EXPOSED PIPING UNDER LAVATORIES SHALL BE INSULATED AS PER FBC ACCESSIBILITY 606.5.
- ALL VALVES SHALL BE IDENTIFIED AS PER FPC 606.4.
- ALL PIPING TO BE IDENTIFIED AS PER FPC 606.7 & 608.8.
- ALL INDIRECT WASTE PIPING TO BE TRAPPED AS PER FPC 802.2.
- ALL MATERIALS LOCATED IN A PLENUM MUST BE PLENUM RATED.
- ALL MATERIALS LOCATED IN A FIRE RATED ASSEMBLY SHALL BE NON-COMBUSTIBLE.
- ALL MATERIALS PENETRATING A FIRE RATED ASSEMBLY SHALL BE FIRE STOPPED.
- USE OF CORRUGATED STAINLESS STEEL TUBING (CSST) WILL NOT BE ACCEPTED.
- ALL PLUMBING FIXTURES TO COMPLY WITH FPC TABLE 604.4.

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 6"	5/8" DIA.
2 1/2" TO 3"	1/2"	6" THRU 12"	7/8" DIA.



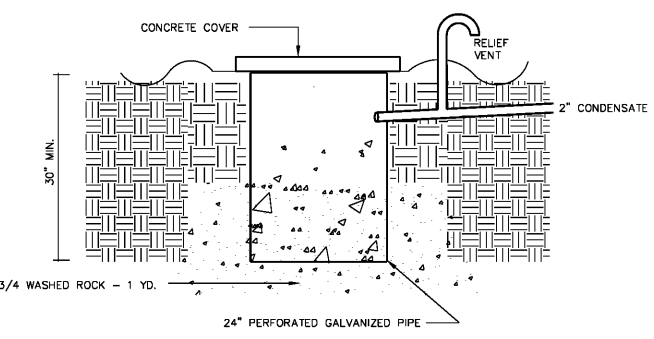
PIPE SUPPORT DETAIL

SCALE: NTS



TYPICAL CLEANOUTS DETAIL

SCALE: NTS



DRYWELL DETAIL

SCALE: NTS

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FLORIDA DEPT. OF PROFESSIONAL REGULATION
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