

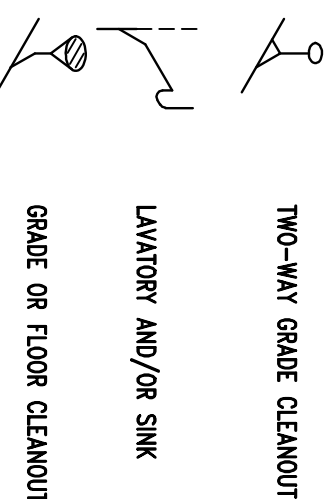
ABBREVIATIONS

AF	ABOVE FINISHED FLOOR
BF	BELOW FINISHED FLOOR
CO	CLEANOUT
CW	COLD WATER
DN	DOWN
D	DRAIN
DD	DECK DRAIN
EL	ELEVATION
EQIP	EQUIPMENT
EXIST	EXISTING
F	FLOOR
FD	FLOOR DRAIN
FL	FLOOR FURNEL DRAIN
GO	GRADE CLEANOUT
GV	GATE VALVE
INV	INGET (VENT IN FIELD)
PO	PLUGGED OUTLET
RD	ROOF DRAIN
S	SANITARY
ST	STORM DRAIN
SW	SOFT WATER
TYP	TYPICAL
UG	UNDERGROUND
UN	UNLESS OTHERWISE NOTED
V	VENT
VIF	VENT IN FIELD
VO	VALVED OUTLET
W	WASTE

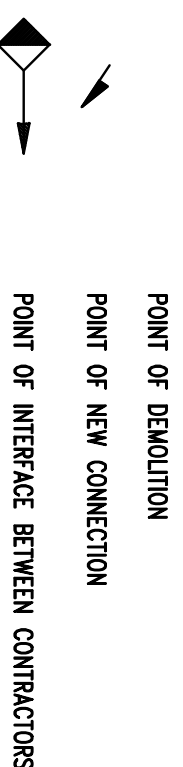
PIPING

---	EXISTING COLD WATER PIPING
- - -	EXISTING SANITARY PIPING
- - -	NEW COLD WATER PIPING
- - -	NEW SANITARY PIPING
- - -	NEW VENT PIPING
- - -	NEW STORM WATER PIPING
---	GRADE CLEANOUT
---	TWO-WAY GRADE CLEANOUT
---	VALVE IN RESER
---	DIRECTION OF FLOW
---	TOP CONNECTION, 45 OR 90 DEG.
---	BOTTOM CONNECTION, 45 OR 90 DEG.
---	SIDE CONNECTION
---	CAPPED OUTLET
---	DROP IN PIPING
---	RISE IN PIPING
---	UNION
---	BALL VALVE
---	GATE VALVE
---	BACKFLOW PREVENTER
---	INTERIOR HOSE BIBB W/VACUUM BREAKER
---	EXTERIOR WALL HYDRANT W/ VACUUM BREAKER

ISOMETRIC SYMBOLS



DRAWING SYMBOLS



PLUMBING GENERAL NOTES

- CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. WORK CONSISTS OF FINISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS, INCLUDE ANY INCIDENTAL APPLIANCES, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
- PRIOR TO ANY EXCAVATION OR DEMOLITION THE CONTRACTOR MUST COORDINATE HIS WORK WITH THE OTHER TRADES. THE OWNER'S MAINTENANCE DEPARTMENT, AND ANY OTHER AVAILABLE SOURCE OF INFORMATION AS TO ABOVE OR BELOW GROUND SERVICES THAT SHALL BE AVOIDED.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING THAT MAY BE REQUIRED DUE TO SCOPE OF WORK. COORDINATE WITH THE GENERAL CONTRACTOR.
- ALL PLUMBING WORK SHALL BE DESIGNED, INSTALLED, TESTED, AND CLEANED IN ACCORDANCE WITH FLORIDA BUILDING CODE 2004 (WITH ALL REVISIONS) - PLUMBING REQUIREMENTS.
- VERIFY THE EXACT LOCATION OF EXISTING SOIL, WASTE, VENT, HOT AND COLD WATER PIPING MAINS FROM THE ACTUAL JOB SITE PRIOR TO SUBMITTING BID. SUBMISSION OF YOUR PROPOSAL SHALL BE CONSIDERED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE REQUIRED FOR CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO CONSULT WITH THIS REQUIREMENT.
- MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.
- WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER OR ARE CONCEALED BEHIND WALLS, THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE COLOR AND STYLE WITH ENGINEER/ARCHITECT.
- PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING UTILITIES IN SERVICE. ANY SHUT DOWNS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ROUGHING DIMENSIONS OF ALL PLUMBING FIXTURES, DRAINS, ETC.
- INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
- PROVIDE DETECTING UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.
- FIELD VERIFY ALL EXISTING PIPE SIZES PRIOR TO INSTALLATION.
- NO VENT THROUGH ROOF SHALL TERMINATE CLOSER THAN 10 FT. TO ANY OUTSIDE AIR INTAKE OR VENTILATION LOUVERS, DOORS, WINDOWS AND OTHER BUILDING OPENINGS.
- ALL SANITARY AND WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 18" BELOW GRADE OR FINISHED FLOOR UNLESS NOTED OTHERWISE.
- PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BACK IS BEING Laid. DO NOT CUT BLOCK WALL.
- PROVIDE ALL SINKS AND LAVATORIES WITH SIP JOINT TRAP FITTINGS FOR CLEANOUT.
- PROVIDE ALL REFRIGERATORS WITH A 3/8" COLD WATER SUPPLY FOR AN ICE MAKER. TERMINATE SUPPLY LINE AT REFRIGERATOR. PROVIDE A CHARGE FILLER STOP. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF REFRIGERATORS.
- CONTRACTOR IS RESPONSIBLE TO ALSO CHECKING FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE(1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- ALL FLOOR DRAINS SHALL BE SERVED BY AN APPROVED TRAP PRIMER.
- ALL HOSE BIBBS, WALL HYDRANTS, AND HOSE END CONNECTIONS SHALL BE EQUIPPED WITH AN APPROVED INTEGRAL VACUUM BREAKER.
- ALL NEW SANITARY, VENT, COLD & HOT WATER PIPING SHALL BE PER SPECIFICATIONS.
- PROVIDE AIR CHAMBERS AT COLD AND HOT WATER CONNECTION TO ALL FIXTURES FOR SHOCK ABSORPTION PER SPECIFICATIONS.

NOTE:

THESE ARE STANDARD SYMBOLS AND GENERAL NOTES AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER WHENEVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

DRAWING INDEX

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PLUMBING FIXTURE SCHEDULE

MARK	ITEM	COLD WATER	HOT WATER	SANITARY AND/OR WASTE	VENT
P-1	WATER CLOSET, AMERICAN STANDARD CLOSET 3 #2386-012 FLOOR MOUNTED ELONGATED BOWL, VITREOUS CHINA, COMPOSITION (1.6 GFL) SINK, CENTRO OPEN FRONT SEAT FRONT LESS COVER, COLOR/ FINISH BY ARCHITECT	1/2"	-	4"	2"
P-2	LAVATORY, ADA AMERICAN STANDARD LUCERNE # 0355-012 WALL MOUNTED VITREOUS CHINA, 4" CENTER HOLES FAUCET: AMERICAN STANDARD #2395-403 SINGLE LEVER FAUCET, GRID DRAIN SUPPLIES: 1/2" CHROME PLATED SUPPLIES WITH WHEEL HANDLE STOPS PRIMER FAUCETS AND CLEANOUT 1-1/2" (1) GRADE CHROME PLATED "P" TRAP WITH TRAP FLOOR CARBER: JOSAM SERIES 17100 CONCEALED AWM CARBER COLOR/ FINISH BY ARCHITECT	1/2"	1/2"	1-1/4"	1-1/2"
P-3	SINK, FREE STANDING, SINGLE COMPARTMENT, SERVICE SINK W/24 DAMBOARD, STAINLESS STEEL EXLAK # S8174 SERIES, DRAIN KIT, FLAT GRID STRAINER WITH STOPPER, FAUCET #A907BROT2H 8" CENTERSET, WITH 7" SPOUT REACH	1/2"	1/2"	2"	2" A.A.V.
GO	GRADE CLEANOUT: ZURN 2174 WITH ZURN 2146 ACCESS COVER AND FERRULE SET FLUSH WITH FINISHED FLOOR. SEE SPECIFICATIONS FOR PIPE SIZE.	-	-	SEE DWG'S	-
EW AND SHIB	EMERGENCY EYE WASH AND SHOWER: FREE STANDING BRADLEY MODEL S19-310007W WITH PLASTIC SHOWER HEAD WITH STAINLESS STEEL BOWL WITH DUST COVER	1-1/4"	-	1-1/2"	-
WH-1	WATER WASTER, METURNE HP TURBINE CLASS II TURBINE -TYPE RATED TO MAXIMUM GPM.	-	-	-	-
EMH	ELECTRIC WATER HEATER, EQUAL TO CURRENT LABORATORIES INSTANT-TYPE MODEL #4-20-1400 WATS. 0.5 GPM FLOW RATE, FLOW SWITCH ACTIVATED STAINLESS STEEL HEATING COILS, 208/7/50	1/2"	1/2"	-	-
ED	FLOOR DRAIN: NINE INCH SQUARE POLISHED BRONZE TOP, WITH SEDIMENT AND TRAP PRIMER CONNECTION	-	-	4"	3"
ED-1	FLOOR DRAIN: NINE INCH SQUARE DURA-COATED CAST IRON TOP, WITH SEDIMENT BUCKET, EQUAL TO ZURN #2520-78-1-Y PROVIDE WITH DEEP SEAL TRAP	-	-	4"	3"
ED-2	FLOOR DRAIN: FIVE INCH SQUARE INCKALLOY TOP, EQUAL TO JOSAM #3000-5, PROVIDE WITH DEEP SEAL TRAP AND 1/2" TRAP PRIMER, CONNECT TRAP PRIMER TO NEAREST LAVATORY	1/2"	SEE DWG'S	SEE DWG'S	1-1/2"
H8	HOSE BIBB, CHROME FINISH WITH EZZ VACUUM BREAKER - BACKFLOW PREVENTER, 3/4" ABOVE FLOOR	3/4"	-	-	-
WH	WALL HYDRANT, POLISHED CHROME FACE, INTEGRAL VACUUM BREAKER - BACKFLOW PREVENTER, 3/4" CONNECTION - ZURN #7321-C, MOUNT @ 18" ABOVE GRADE	3/4"	-	-	-
TBC	TRAP BRINEER CONNECTION UNIT: (1) SURFACED MOUNTED METAL CABINET VACUUM BREAKER 3/4" CONNECTION - PRI MODEL #PT5-20 @ 48" ABOVE SLAB	3/4"	-	-	-
DD	DECK DRAIN: NINE INCH SQUARE CAST IRON TOP, WITH SEDIMENT BUCKET, EQUAL TO ZURN 525-2 -H -SS-1 #31120-7-12-88	-	SEE DWG'S	SEE DWG'S	-
RD	ROOF DRAIN: COATED CAST IRON BODY, LARGE ALUMINUM, LOCKING DOOR, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET, ZURN 121-2A-C.	-	SEE DWG'S	SEE DWG'S	-

UNIVERSITY OF SOUTH FLORIDA SOUTH EAST CHILLER PLANT BR-590 COMPONENT #6

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SEAL

DEAN S. KENTON, P.E.
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Signature: _____ Date: _____
DRAWING REVISIONS

REVISION	COMMENTS
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DRAWING TITLE :
LEGENDS, ABBREVIATIONS AND GENERAL NOTES

Drawing Progress: 100% CONSTRUCTION DOCUMENTS

FILE NAME: 081106_P-1.DWG
DATE: 03-31-2008
PLOT SIZE: AS NOTED
CALORED BY: ROR
DESIGNED BY: TSH
CHECKED BY: TSH

PROJECT NO.
081106
SHEET NO.

P-1

1 OF 6