PLUMBING NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, FIXTURES, TOOLS AND SERVICES NECESSARY FOR THE COMPLETE AND SAFE INSTALLATION OF THE PLUMBING (SANITARY, WASTE, CLEAR WATER DRAIN, VENT, DOMESTIC WATER, AND NATURAL GAS SYSTEMS IN FULL CONFORMITY WITH THE TOWN OF BABYLON, NEW YORK BUILDING DEPARTMENT, THE NEW YORK STATE BUILDING CODE, THE NEW YORK STATE PLUMBING CODE, THE NEW YORK STATE FUEL GAS CODE, THE NEW YORK STATE DEPARTMENT OF STATE AND ALL AUTHORITIES HAVING JURISDICTION.
2. THE BUILDING IS CONSIDERED B OCCUPANCY AS DEFINED IN THE NEW YORK STATE BUILDING CODE, SECTION 304
3. ALL WORK SHOWN ON THESE DOCUMENTS IS DIAGRAMATIC AND SHALL BE INSTALLED TO FIT ACTUAL BUILDING CONDITIONS. THE CONTRACTOR SHALL, AS PART OF THIS CONTRACT, FURNISH AND INSTALL ALL INCIDENTALS SUCH AS PIPES, FITTINGS, FIXTURES, VALVES, HANGERS, INSULATION, SLEEVES, SUPPORTS, ETC... AND ALL TESTING, CLEANING AND MISCELLANEOUS ITEMS NECESSARY TO LEAVE EACH SYSTEM COMPLETE IN EVERY DETAIL AND READY FOR OPERATION.
SLOPE OF WORK:
4. THE SCOPE OF WORK SHALL INCLUDE BUT NOT NECESSARILY BY LIMITED TO THE FOLLOWING:
A. VISITING THE SITE AND VERIFY CONDITIONS PRIOR TO COMMENCEMENT OF WORK
B. PREPARATION OF COMPLETE AND DETAILED WORKING DRAWINGS FOR SUBMITTAL TO THE ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION.
C. OBTAINING, FILING AND PAYING FOR ALL NECESSARY APPROVALS, PERMITS AND CERTIFICATES FROM THE BUILDING DEPARTMENT AND AUTHORITIES HAVING JURISDICTION
D. INCLUDING ALL REPRODUCTION AND DRAWING.COSTS.
E. FURNISHING AND INSTALLING ALL FIXTURES, PIPING, FITTINGS, PUMPS, VALVES, DEVICES, ACCESSORIES,ETC.
F. FURNISHING AND INSTALLING ALL NECESSARY DRAINS AND DRAIN VALVES.
G. FURNISHING AND INSTALLING OF ALL SLEEVES ESCUTCHEONS, HANGERS AND SUPPORTS.
H. FURNISHING AND INSTALLING ALL CITY WATER CONNECTIONS FOR DOMESTIC WATER AND SPRINKLER WATER AS REQUIRED, INCLUDING NEW TAPS TO EXISTING STREET MAIN, UNDERGROUND PIPING, CURB VALVE, METERS, BACKFLOW PREVENTERS (RPZ'S) AND INDOOR MAIN SHUTOFF VALVES
I. CUTTING, EXCAVATING, SHORING, INSTALLATION OF PIPING BELOW SLAB ON GRADE, PROTECTION OF PIPING BELOW SLAB ON GRADE, BACKFILLING AROUND PIPING, INSTALLATION OF CLEANOUTS AND REPAIR OF CONCRETE SLAB.
J. FURNISHING AND INSTALLING INSULATION
K. FURNISHING AND INSTALLING ELECTRIC DOMESTIC WATER HEATER.
L. FURNISHING AND INSTALLING GAS FIRED WATER HEATER FOR FILTERED WATER SYSTEM.
M. FURNISHING AND INSTALLING NATURAL GAS METER DETAIL AND NATURAL GAS DISTRIBUTION PIPING TO WATER HEATERS AND GAS FIRED AIR CONDITIONING EQUIPMENT
N. FURNISHING AND INSTALLING NEW HOT WATER CIRCULATING PUMPS AND ACCESSORIES.
O. FURNISHING AND INSTALLING NEW HOUSE TRAP, FRESH AIR INLET AND HOUSE SEWER FROM THE BUILDING WALL TO THE POINT OF CONNECTION TO THE EXISTING HOUSE SEWER
P. OBTAINING ALL APPROVALS, ACCEPTANCES AND CERTIFICATIONS FROM ALL AUTHORITIES HAVING JURISDICTION.

5. ALL PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH NEW YORK STATE PLUMBING CODE CHAPTER 4.
6. ALL DOMESTIC HOT WATER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE PLUMBING CODE CHAPTER 5.
7. ALL SANITARY DRAINAGE PIPING AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE PLUMBING CODE CHAPTER 7.
8. ALL INDIRECT WASTE AND SPECIAL WASTE PIPING AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE CHAPTER 8.
9. ALL VENT PIPING AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE CHAPTER 9.
10. ALL TRAPS, INTERCEPTORS AND SEPARATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE CHAPTER 10.
11. STORM WATER IS TO BE CARRIED BY EXISTING DRAINS AND LEADERS AND ARE NOT SHOWN ON THESE PLANS. REFER TO ARCHITECTURAL DRAWINGS AND SITE DRAWINGS FOR STORM DRAINAGE.
12. ALL INSULATION SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE AND THE NEW YORK STATE ENERGY CONSERVATION CODE.
13. ALL INDIRECT WASTE PIPING AND DIALYSIS FILTERED WATER, ACID, ALKALI, ETC... PIPING SHALL BE FURNISHED AND BY OTHERS
14. DIALYSIS MACHINE & INDIRECT WASTE DRAINAGE SHALL BE
15. ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE SILTED IN CONFOMANE WITH ALL APPLABLE ONES AND STANDARD ACCEPTABLE TRADE PRACTICE
16. SPECIAL NOTE: ALL EQUIPMENT AND PIPING ASSOCIATED WITH THE DIALYSIS MACHINES INCLUDING BUT NOT NECESSARILY LIMITED TO REVERSE OSMOSIS FILTERS, WATER SOFTENERS, MIXING TANKS, CIRCULATING PUMPS, SERVICE BOXES, INDIRECT WASTE PIPING, BICARBONATE TANKS, ETC... SHALL BE FURNISHED AND INSTALLED BY THE WATER FILTRATION CONTRACTOR. THE WATER FILTRATION CONTRACTOR SHALL VERIFY THAT THE DRAINAGE SYSTEM SHOWN ON THESE DRAWINGS SATISFIES THE SPECIFIC NEEDS OF THE EQUIPMENT.

PLUMBING SPECIFICATIONS

1. ALL PLUMBING FIXTURES NOT SPECIFIED ON THESE PLANS SHALL BE AS SPECIFIED BY THE ARCHITECT. ALL WATER CLOSETS SHALL BE 1.6 GALLONS PER FLUSH. ALL FAUCETS AND SHOWER MIXING VALVES SHALL BE THE ANTI-SCALD TYPE.

A. WATER CONSERVATION SHALL BE ACHIEVED IN THIS BUILDING THROUGH FLOW RATES AND FLUSH RATES FOR FIXTURES AND FIXTURE FITTINGS NOT EXCEEDING THE FOLLOWING:
1. WATER CLOSETS - 1.6 GALLONS PER FLUSH
2. LAVATORY, PUBLIC - .25 GPM AT 60 PSI
3. SINK FAUCET - 2.2 GPM AT 60 PSI

B. PLUMBING FIXTURES SHALL BE CONSTRUCTED OF APPROVED MATERIALS, WITH SMOOTH, IMPERVIOUS SURFACES, FREE FROM DEFECTS AND CONCEALED FOULING SURFACES, AND SHALL CONFORM TO STANDARDS CITED IN THIS CODE. ALL PORCELAIN-ENAMELED SURFACES ON PLUMBING FIXTURES SHALL BE ACID RESISTANT.
C. SUPPLY LINES AND FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW.
D. FLOOR DRAINS SHALL CONFORM TO ASME A112.21.1, ASME A112.3.1 OR CSA CAN-B79.
E. LAVATORIES SHALL CONFORM TO ANSI Z124.3, ASME A112.19.1, ASME A112.19.2, ASME A112.19.3, ASME A112.19.4, ASME A112.19.9, CSA B45.1, CSA B45.2, CSA B45.3 OR CSA B45.4.
N. SINKS SHALL CONFORM TO ANSI Z124.6, ASME A112.19.1, ASME A112.19.2, ASME A112.19.3, ASME A112.19.4, CSA B45.1, CSA B45.2, CSA B45.3 OR CSA B45.4.
F. WATER CLOSETS SHALL CONFORM TO ANSI Z124.4, ASME A112.19.2, CSA B45.1, CSA B45.4 OR CSA B45.5, AS WELL AS ADDITIONAL REQUIREMENTS SET FORTH IN SECTION 420 OF THE PLUMBING CODE OF NEW YORK STATE (PCNYS).
G. FAUCETS AND FIXTURE FITTING SHALL CONFORM TO ASME A112.18.1 OR CSA B125. FAUCET AND FIXTURE FITTINGS THAT SUPPLY DRINKING WATER FOR HUMAN INGESTION SHALL CONFORM TO THE REQUIREMENTS OF ANSI/NSF 61, SECTION 9.
H. FLUSHING DEVICES FOR WATER CLOSETS AND URINALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN SECTION 425 OF PCNYS.

2. ALL STORM SITE DRAINAGE SHALL BE AS SHOWN ON THE ARCHITECTURAL AND/ OR SITE PLANS.
3. THE INSTALLATION OF A NEW DOMESTIC WATER SERVICE AND A NEW SPRINKLER WATER SERVICE SHALL BE FILED FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN THE REQUIRED APPROVALS FROM SUFFOLK COUNTY WATER AUTHORITY, THE DEPARTMENT OF HEALTH AND ALL AUTHORITIES HAVING JURISDICTION.

4. THE INSTALLATION OF A NEW SEPTIC SYSTEM, IF REQUIRED, IS SHOWN ON SEPARATE DOCUMENTS.
5. THE FURNISHING AND INSTALLATION OF A NATURAL GAS METER DETAIL SHALL INCLUDED IN THE CONTRACTORS SCOPE OF WORK. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH LIPA
6. ALL DOMESTIC COLD, HOT AND HOT WATER RETURN IS TO BE TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND LEAD FREE SOLDERED JOINTS.
7. ALL SANITARY AND WASTE PIPING NOT BURIED IN EARTH OR CONCRETE SHALL BE CAST IRON PIPING WITH NO-HUB JOINTS.
8. ALL SANITARY AND VENT PIPING BURIED IN EARTH OR CONCRETE SHALL BE SERVICE CLASS CAST IRON HUB AND SPIGOT PIPING WITH GASKETED JOINTS.
9. ALL VENT PIPING NOT BURIED IN EARTH OR CONCRETE SHALL BE CAST IRON NO-HUB PIPING WITH NO-HUB JOINTS.
10. ALL DOMESTIC COLD WATER PIPING SHALL BE INSULATED AS FOLLOWS:
A. ALL SIZES: 1/2" THICK PREMOLDED FIBERGLASS WITH FOIL VAPOR JACKET. ALL FITTINGS SHALL BE WRAPPED IN FIBERGLASS BLANKET WITH FOIL VAPOR JACKET SECURED BY COPPER WIRE. ALL JOINTS SHALL BE SEALED WITH TAPE. PIPING MAY BE INSULATED WITH 1/2" THICK "ARMAFLEX" (FLEXIBLE ELASTOMERIC THERMAL INSULATION) IN LIEU OF FIBERGLASS AS DESCRIBED ABOVE.
11. ALL RECIRCULATED HOT WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED AS FOLLOWS:
A. SIZES 2" AND SMALLER: 1" THICK PREMOLDED FIBERGLASS WITH FOIL VAPOR JACKET. ALL FITTINGS SHALL BE WRAPPED IN FIBERGLASS BLANKET WITH FOIL VAPOR JACKET SECURED BY COPPER WIRE. ALL JOINTS SHALL BE SEALED WITH TAPE. PIPING MAY BE INSULATED WITH 1" THICK "ARMAFLEX" (FLEXIBLE ELASTOMERIC THERMAL INSULATION) IN LIEU OF FIBERGLASS AS DESCRIBED ABOVE.
B. SIZES LARGER THAN 2": 1-1/2" THICK PREMOLDED FIBERGLASS WITH FOIL VAPOR JACKET. ALL FITTINGS SHALL BE WRAPPED IN FIBERGLASS BLANKET WITH FOIL VAPOR JACKET SECURED BY COPPER WIRE. ALL JOINTS SHALL BE SEALED WITH TAPE. PIPING MAY BE INSULATED WITH 1-1/2" THICK "ARMAFLEX" (FLEXIBLE ELASTOMERIC THERMAL INSULATION) IN LIEU OF FIBERGLASS AS DESCRIBED ABOVE.
12. ALL NON-RECIRCULATED HOT WATER SHALL BE INSULATED AS FOLLOWS:
C. SIZES 1" AND SMALLER: 1/2" THICK PREMOLDED FIBERGLASS WITH FOIL VAPOR JACKET. ALL FITTINGS SHALL BE WRAPPED IN FIBERGLASS BLANKET WITH FOIL VAPOR JACKET SECURED BY COPPER WIRE. ALL JOINTS SHALL BE SEALED WITH TAPE. PIPING MAY BE INSULATED WITH 1/2" THICK "ARMAFLEX" (FLEXIBLE ELASTOMERIC THERMAL INSULATION) IN LIEU OF FIBERGLASS AS DESCRIBED ABOVE.
D. SIZES LARGER THAN 1": 1" THICK PREMOLDED FIBERGLASS WITH FOIL VAPOR JACKET. ALL FITTINGS SHALL BE WRAPPED IN FIBERGLASS BLANKET WITH FOIL VAPOR JACKET SECURED BY COPPER WIRE. ALL JOINTS SHALL BE SEALED WITH TAPE. PIPING MAY BE INSULATED WITH 1" THICK "ARMAFLEX" (FLEXIBLE ELASTOMERIC THERMAL INSULATION) IN LIEU OF FIBERGLASS AS DESCRIBED ABOVE.

13. ALL NATURAL GAS PIPING WITHIN THE BUILDING SHALL BE AS FOLLOWS"
A. 2" AND SMALLER: SCHEDULE 40 STEEL PIPE WITH MALLEABLE IRON FITTINGS.
B. LARGE THAN 2" STEEL PIPE WITH WELDED STEEL FITTINGS.

14. VALVES:
A. COLD, HOT AND HOT WATER RETURN PIPING, ALL SIZES: ALL VALVES SHALL BE BALL VALVES, CAST BRONZE BODY, CHROME PLATED BRASS BALL, RTFE SEAL AND PTFE PACKING. 600 PSI NON-SHOCK COLD WATER (2" AND SMALLER), 400 PSIG NON-SHOCK COLD WATER (2-1/2" AND 3") SIMILAR TO HAMMOND 8501/8511.
B. CHECK VALVES SHALL BE BRONZE BODY, BRONZE CAP, BROZE DISC, STAINLESS STEEL HINGE PIN, 200 PSI NON-SHOCK COLD WATER, THREADED CONNECTIONS SIMILAR TO "HAMMOND"IB904.
15. DOMESTIC WATER HEATER SHALL BE AS SPECIFIED ON THE PLANS.
16. FLOOR DRAINS SHALL BE GRAY IRON, WITH 6" DIAMETER NICKEL BRONZE STRAINER WITH SEDIMENT BUCKET, TRAP PRIMER VALVE CONNECTION, MEDIUM DUTY SIMILAR TO "ZURN" Z-415.
17. ALL FLOOR DRAIN TRAPS SHALL BE AUTOMATICALLY PRIMER BY A DOMESTIC COLD WATER CONNECTION TO THE TRAP CONTROLLED BY AN AUTOMATIC SOLENOID VALVE. THE AUTOMATIC SOLENOID VALVE SHALL BE CONTROLLED BY A PROGRAMMABLE TIMECLOCK
18. FLOOR CLEANOUTS SHALL BE SIMILAR TO "ZURN" Z-1454 WITH NICKEL BRONZE SCORIATED TOP.
19. FREEZE PROOF WALL HYDRANTS SHALL BE SIMILAR TO "ZURN" Z-1305 ENCASED FREEZE PROOF HYDRANT.
20. WATER HAMMER ARRESTORS SHALL BE INSTALLED ON EVERY HOT WATER AND COLD WATER FIXTURE BRANCH TAKEN FROM THE RISERS TO SERVE A FIXTURE OR BATTERY OF FIXTURES. WATER HAMMER ARRESTORS SHALL BE SIMILAR TO "ZURN" SHOCK-TROL.
21. EXPANSION TANKS IN THE DOMESTIC HOT WATER SYSTEM SHALL SIMILAR TO "TACO" PAX 84, ASME RATED BLADDER TYPE TANK. ACCEPTANCE VOLUME 12 GAL.
22. THERMOMETERS SHALL BE INSTALLED ON THE INLET AND OUTLET OF EACH HOT WATER HEATER AND AS SHOWN ON THE PLANS. THERMOMETERS SHALL BE 9" MERCURY THERMOMETERS WITH BRASS THERMOMETER WELLS SIMILAR TO "WEKSLER".
23. PRESSURE GAUGES SHALL BE INSTALLED ON THE INLET AND OUTLET OF EACH PUMP AND AS SHOWN ON THE PLANS.
24. THE CONTRACTOR SHALL PROVIDE CHROME PLATED BRASS SHUT OFF VALVES WITH FINISH ESCUTCHEONS AT EACH FIXTURE.
25. DOMESTIC HOT WATER RECIRCULATING PUMPS SHALL BE SIMILAR TO "TACO" 113 INLINE CIRCULATOR, ALL BRONZE CASING WITH CAST BRONZE IMPELLER,ALLOY STEEL SHAFT AND MECHANICAL SEAL. 10 GPM @ 15 FT HEAD, 1/8 HP.
26. THERMOSTATIC TEMPERING VALVES SHALL BE INSTALLED ON THE HOT WATER SUPPLY TO THE FILTERED WATER SYSTEM. THE FILTERED WATER SYSTEM, ACID, BICARBONATE SYSTEMS AND ALL ASSOCIATED VALVES, PIPING AND SERVICE CONNECTION BOXES SHALL BE PROVIDED UNDER SEPARATE CONTRACT. ALL INDIRECT WASTE PIPING FROM THE SERVICE CONNECTION BOX DRAINS TO THE FUNNEL FLOOR DRAINS SHALL BE UNDER SEPARATE CONTRACT.
27. PACKAGE SEWAGE EJECTOR PUMP & BASIN SIMILAR TO "ALYAN" SEP 2551 50 GPM @ 20 FT HD 208/3Ø/60, (2) 1 HP MOTORS, CAPABLE OF DISCHARGING 2" SOLIDS 4" INLET TO BASIN. BASIN TO BE FIBERGLASS 36"Øx48" HIGH. INSTALL FLUSH WITH FLOOR. PROVIDE AUDIBLE HIGH LEVEL ALARM & LEAD LAG CONTROLLER WITH AUTOMATIC CHANGEOVER.
28. GAS FIRED, CONDENSING SEALED COMBUSTION CHAMBER DOMESTIC WATER HEATER. "A.O. SMITH" CYCLONE XHE BTH 250. 240 MBH INPUT, 100 GAL STORAGE. PROVIDE PVC COMBUSTION AIR INLET AND CONDENSING FLUE UP THRU SLAB AND OUT THROUGH EXTERIOR WALL.
2. ELECTRIC DOMESTIC WATER HEATER SUSPENDED FROM CEILING. SIMILAR TO "A.O. SMITH" DSE-5, 1500W, 208/1Ø, 5 GALLON STORAGE. 6 GPH RECOVERY RATE. PROVIDE 3/4" CW INLET, 3/4" HW INLET, PRESSURE & TEMPERATURE SAFETY RELIEF VALVE WITH 3/4" BLOW OFF PIPES TO JANITORS CLOSET ON GROUND FLOOR.

JOB#: 9039
DATE: 1/16/07
SCALE: N/A
DRAWING NUMBER
P-7

OCEAN MEDICAL PROPERTIES
3 NORTH MAIN STREET
FREEPORT, NY 11520

DRAWING: PLUMBING SPECIFICATIONS

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1	4/08/10	GENERAL REVISIONS	TET

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Received Revised Set - 4/15/2010