PLUMBING MATERIAL SCHEDULE

USE	MATERIAL
DOMESTIC WATER	TYPE L COPPER ABOVE GRADE, TYPE K COPPER BELOW GRADE
SOIL & WASTE	CAST IRON SOIL PIPE WITH NO-HUB FITTINGS ABOVE GRADE. SCHEDULE 80 P.V.C. WITH SOLVENT WELD FITTINGS BELOW GRADE.
GREASE WASTE	CAST IRON WITH NO-HUB FITTINGS ABOVE GRADE.
NATURAL GAS	SCHEDULE 40 BLACK STEEL.
STORM DRAIN	CAST IRON WITH NO-HUB FITTINGS ABOVE GRADE. SCHEDULE 80 P.V.C. WITH SOLVENT WELD FITTINGS BELOW GRADE.
PUMPED SEWAGE/ STORM DRAIN	SCHEDULE 40 GALVANIZED STEEL WITH VICTAULIC COUPLINGS ABOVE GRADE, SCHEDULE 80 P.V.C. WELD FITTINGS BELOW GRADE.
COMPRESSED AIR PIPING	TYPE L COPPER WITH BRAZED SOLDERED FITTINGS
COMPRESSED AIR VALVES	APOLLO 70-100-41 BRONZE BALL VALVE
COMPRESSED AIR QUICK DISCONNECT	SNAP TIGHT, AIR LIQUID
COMPRESSED AIR REGULATOR	INGERSOLL RAND, NORGEN

GREASE INTERCEPTOR CALCULATIONS

FIXTURE	FLOOR SINK	FLOOR DRAIN	GREASE WASTE FIXTURE UNITS	GPM
DISHWASHER	3"	---	6	10
POT SINK	3"	---	4	5
PRE-RINSE FAUCET	(1)	---	---	3
TROUGH DRAIN (2)	---	2"	2	6 (3 GPM EACH)
FLOOR DRAIN	---	2"	---	EMERGENCY
TOTAL GPM	---	---	---	24

NOTES:

(1) DRAINS TO DISHWASHER FLOOR SINK.

SEWERAGE AND WATER BOARD SECTION 9.12.1
THE GREASE RETAINING CAPABILITY OF EACH GREASE INTERCEPTOR, IN POUNDS OF GREASE, SHALL EQUAL TWICE THE FLOW RATE OF FLOW CAPACITY PER MINUTE OF WASTE WATER DISCHARGE.
SELECT HIGHLAND TANK GREASE STOPPER GS-25 (GPM) FOR 91 POUNDS OF GREASE HOLDING CAPACITY.

TEMPERING STATION SCHEDULE

(LEONARD AS STANDARD)

ITEM	MEGATRON MODEL NO.	THERMOSTATIC MIXING VALVE	G.P.M.	SYSTEM PRESS. DROP (P.S.I.G.)	TACO CIRC. PUMP MODEL NO.	RECIRC. G.P.M.	T.D.H. FOR RECIRC. PUMP	HP. / V. / ø	LOCATION	NOTES
T.S.-1	TM26	SINGLE	2.5	5	0013-BF3	1.0	16	1/8 / 120 / 1	JANITOR 007	(1)
T.S.-2	TM26	SINGLE	5	5	0013-BF3	1.0	16	1/8 / 120 / 1	JANITOR 004	(1)
T.S.-3	TM26	SINGLE	4	5	0013-BF3	1.0	16	1/8 / 120 / 1	JANITOR 104	(1)

NOTES:

(1) FURNISH COMPLETE WITH VALVES, GAUGES, THERMOSTATS, CIRCULATING PUMPS, AND GALVINIZED STEEL SUPPORT. INCLUDE OPTION FS (LEGS TO FLOOR).

PLUMBING EQUIPMENT SCHEDULE

ITEM	DESCRIPTION
S.P.-1 (TYP.-4)	SUMP PUMP: HYDROMATIC MODEL SHEF50 SUBMERSIBLE SUMP PUMP FOR 50 G.P.M. AT 32' T.D.H. WITH 1/2 H.P., 115V/1ø MOTOR. FURNISH WITH FLOAT SWITCH LEVEL CONTROL, EXERCISE CIRCUIT, AND Q-ALERT XT ALARM SYSTEM (WEATHERPROOF ENCLOSURE) WITH AUXILIARY DRY CONTACTS FOR DDC INTERFACE. WIRING SHALL BE IDENTIFIED FOR USE IN WET LOCATIONS IN ACCORDANCE WITH NFPA 70.
S.E.-1	SEWAGE EJECTOR: HYDROMATIC PUMP MODEL VORTEX S4MVX 750-2 DUPLEX SEWAGE EJECTOR FOR 175 G.P.M. (EACH) AT 44' T.D.H. WITH 7 1/2 H.P., 1750 R.P.M., 460V/3ø MOTOR. FURNISH FOR INSTALLATION WITHIN EXISTING 10'-6" x 4'-10" x 7'-2" DEEP CONCRETE BASIN. FURNISH FIELD INSTALLED PULTRUDED GUIDE RAILS, STAINLESS STEEL DISCHARGE PIPING, FLOAT BRACKET AND STAINLESS STEEL LIFTING CHAINS WITH SHACKLES. FURNISH REMOTE CONTROL PANEL COMPLETE WITH CIRCUIT BREAKERS, MOTOR STARTERS, H.O.A. SELECTOR FOR EACH PUMP, LEAD/LAG CIRCUITRY, HIGH WATER ALARM WITH INDICATING LIGHT, DUPLEX ELAPSED TIME METERS, ULTRASONIC LEVEL CONTROL WITH CONTROL FLOATS AND E.M.C.S. INTERFACE FOR HIGH WATER ALARM. FURNISH H-20 RATED COVER WITH VAPOR-TIGHT SEALS SIZED WITH HINGED HATCH TO MATCH MANUFACTURER'S REQUIREMENTS. OVERALL COVER SIZE TO MATCH EXISTING BASIN OPENING (APPROXIMATELY 10'-6" x 4'-10").
G.W.E.-1	GROUND WATER EJECTOR: HYDROMATIC PUMP MODEL VORTEX S3HVX 500-2 DUPLEX GROUND WATER EJECTOR FOR 100 G.P.M. (EACH) AT 44' T.D.H. WITH 5 H.P., 3450 R.P.M., 460V/3ø MOTOR. FURNISH FOR INSTALLATION WITHIN EXISTING 4'-4" x 3'-6" x 7'-2" DEEP CONCRETE BASIN. FURNISH FIELD INSTALLED PULTRUDED GUIDE RAILS, STAINLESS STEEL DISCHARGE PIPING, FLOAT BRACKET AND STAINLESS STEEL LIFTING CHAINS WITH SHACKLES. FURNISH REMOTE CONTROL PANEL COMPLETE WITH CIRCUIT BREAKERS, MOTOR STARTERS, H.O.A. SELECTOR FOR EACH PUMP, LEAD/LAG CIRCUITRY, HIGH WATER ALARM WITH INDICATING LIGHT, DUPLEX ELAPSED TIME METERS, ULTRASONIC LEVEL CONTROL WITH CONTROL FLOATS AND E.M.C.S. INTERFACE FOR HIGH WATER ALARM. FURNISH H-20 RATED COVER WITH VAPOR-TIGHT SEALS SIZED WITH HINGED HATCH TO MATCH MANUFACTURER'S REQUIREMENTS. OVERALL COVER SIZE TO MATCH EXISTING BASIN OPENING (APPROXIMATELY 4'-6" x 3'-6").
S.E.-2	SEWAGE EJECTOR/GROUND WATER EJECTOR: HYDROMATIC PUMP MODEL VORTEX S3HVX 500-2 DUPLEX SEWAGE/GROUND WATER EJECTOR FOR 100 G.P.M. (EACH) AT 44' T.D.H. WITH 5 H.P., 3450 R.P.M., 460V/3ø MOTOR. FURNISH FOR INSTALLATION WITHIN NEW 4'-6" x 4'-6" x 11'-0" DEEP CONCRETE BASIN. FURNISH FIELD INSTALLED PULTRUDED GUIDE RAILS, STAINLESS STEEL DISCHARGE PIPING, FLOAT BRACKET AND STAINLESS STEEL LIFTING CHAINS WITH SHACKLES. FURNISH REMOTE CONTROL PANEL COMPLETE WITH CIRCUIT BREAKERS, MOTOR STARTERS, H.O.A. SELECTOR FOR EACH PUMP, LEAD/LAG CIRCUITRY, HIGH WATER ALARM WITH INDICATING LIGHT, DUPLEX ELAPSED TIME METERS, ULTRASONIC LEVEL CONTROL WITH CONTROL FLOATS AND E.M.C.S. INTERFACE FOR HIGH WATER ALARM. FURNISH FACTORY H-20 RATED COVER WITH VAPOR-TIGHT SEALS SIZED WITH HINGED HATCH TO MATCH MANUFACTURER'S REQUIREMENTS (APPROXIMATELY 24" x 38"). COORDINATE OPENING SIZES AND LOCATIONS IN CONCRETE BASIN FOR HATCH, PIPING, WIRING, ETC.
G.W.E.-2	SEWAGE EJECTOR/GROUND WATER EJECTOR: HYDROMATIC PUMP MODEL VORTEX S3HVX 500-2 DUPLEX SEWAGE/GROUND WATER EJECTOR FOR 100 G.P.M. (EACH) AT 44' T.D.H. WITH 5 H.P., 3450 R.P.M., 460V/3ø MOTOR. FURNISH FOR INSTALLATION WITHIN NEW 4'-6" x 4'-6" x 11'-0" DEEP CONCRETE BASIN. FURNISH FIELD INSTALLED PULTRUDED GUIDE RAILS, STAINLESS STEEL DISCHARGE PIPING, FLOAT BRACKET AND STAINLESS STEEL LIFTING CHAINS WITH SHACKLES. FURNISH REMOTE CONTROL PANEL COMPLETE WITH CIRCUIT BREAKERS, MOTOR STARTERS, H.O.A. SELECTOR FOR EACH PUMP, LEAD/LAG CIRCUITRY, HIGH WATER ALARM WITH INDICATING LIGHT, DUPLEX ELAPSED TIME METERS, ULTRASONIC LEVEL CONTROL WITH CONTROL FLOATS AND E.M.C.S. INTERFACE FOR HIGH WATER ALARM. FURNISH FACTORY H-20 RATED COVER WITH VAPOR-TIGHT SEALS SIZED WITH HINGED HATCH TO MATCH MANUFACTURER'S REQUIREMENTS (APPROXIMATELY 24" x 38"). COORDINATE OPENING SIZES AND LOCATIONS IN CONCRETE BASIN FOR HATCH, PIPING, WIRING, ETC.

PLUMBING EQUIPMENT SCHEDULE CONTINUED

ITEM	DESCRIPTION
B.P.-1	BOOSTER PUMP: GRUNDFOS BOOSTERPAQ PACKAGED BOOSTER PUMP MODEL MPC-E3CRE10-3 FOR 181 GPM FLOW WITH 17.25 PSI ENTERING WATER PRESSURE TO MAINTAIN A CONSTANT WATER PRESSURE OF 55 PSI. THE SYSTEM SHALL HAVE THREE (3) GRUNDFOS MODEL CRE-15-3 PUMPS EACH FOR 90 GPM AT 128 FEET TDH, TWO (2) PRIMARY PUMPS WITH ONE (1) STANDBY, WITH VARIABLE FREQUENCY CONTROL FOR EACH PUMP. THE PUMPS SHALL BE VERTICAL MULTI-STAGE DESIGN. EACH PUMP MOTOR SHALL BE 7 1/2 HP, 460V/3ø TO OPERATE AT A NOMINAL 3500 RPM. FURNISH WITH 100 GALLON HYDROPNEUMATIC TANK, SPEED CONTROLS, FACTORY MOUNTED CONTROLLER, DISCONNECT SWITCH, PUMP RUN LIGHTS, PUMP FAULT LIGHTS, PANEL ILLUMINATION LIGHTS, 4" STAINLESS STEEL MANIFOLD, VALVES ON THE INLET AND OUTLET OF EACH PUMP WITH A CHECK VALVE ON EACH OUTLET AND PRESSURE REDUCING VALVE, SINGLE POINT CONNECTION FOR 460V/3ø SERVICE. MAXIMUM OPERATING WEIGHT 1000 POUNDS.
W.H.-1 W.H.-2	DOMESTIC WATER HEATERS: LOCHINVAR CHARGER MODEL CNR199-100-DF9, 100 GALLON STORAGE CAPACITY, FOR 194 G.P.H. RECOVERY AT 100° RISE, 199 CFH GAS INPUT WITH MULTI-FLUE DESIGN, FUSED GLASS LINING, POLYURETHANE FOAM INSULATION, TANK SAVER ANODES, HEAVY STEEL JACKET WITH BAKED ENAMEL FINISH, 150 PSI WORKING PRESSURE, AUTOMATIC RESET HIGH-LIMIT, SPARK IGNITION, SLIDE OUT BURNER TRAY, AUTOMATIC FIRE DAMPER, 115V DC SERVICE, LOW WATER CUT-OFF, TEMPERATURE GAUGE, PRESSURE GAUGE, WATER HEATER SHALL MEET LATEST EDITION OF ASHRAE ENERGY EFFICIENCY STANDARDS, FURNISH WITH ASME PRESSURE AND TEMPERATURE RELIEF VALVE, 1600 POUND MAXIMUM OPERATING WEIGHT, 6" FLUE.
H.C.P.-1	RECIRCULATING PUMP: GRUNDFOS MODEL UPS 40-240/2 HOT WATER RECIRCULATING PUMP FOR 40 G.P.M. AT 50' T.D.H., 1 1/2" FLANGED BRONZE HOUSING, STAINLESS STEEL ROTOR CAN, BEARING PLATE AND ROTOR CLADDING, BUILT-IN THERMAL OVERLOAD SWITCH, 2-SPEED, 1 1/2 H.P., 460V/3ø MOTOR.
D.E.T.-1	EXPANSION TANK: WESSELS MODEL TXA 200 BLADDER TYPE EXPANSION TANK FOR 53 GALLON TANK AND 53 GALLON ACCEPTABLE VOLUME. ASME STAMPED FOR 150 PSIG, FOR USE IN POTABLE WATER SYSTEM. 675# MAX. OPERATING WEIGHT.
G.I.-1	GREASE INTERCEPTOR: HIGHLAND TANK BY LOWE ENGINEERING GREASE STOPPER GS-25 AUTOMATIC GREASE INTERCEPTOR FOR 25 GPM WITH 91 POUND GREASE HOLDING CAPACITY, FURNISH WITH DIGITAL TIMER WITH PLUG FOR 110V CONNECTION, HEAVY DUTY STAINLESS STEEL ENCLOSURE WITH REMOVABLE COVER, SCREEN INLET BASKET, HEATING ELEMENT AND THERMOSTAT, GREASE RECOVERY PIPE WITH RECOVERED GREASE CONTAINER, GREASE SKIMMER BLADE, 2'-0" HIGH STAND, U.L. LISTED, CONFORMS TO PDIG101; CERTIFIED TO ASME A112.14.3 AND 14.4 AND CERTIFIED U.P.C. LISTED.
C.A.U.-1	COMPRESSED AIR UNIT: CHICAGO PNEUMATIC MODEL QRS10HPD AIR COMPRESSOR FOR 52 CFM AT 125 PSI OPERATING PRESSURE WITH INLET AIR FILTER, COOLANT/AIR SEPARATOR, VARIABLE FREQUENCY DRIVE, ENCLOSURE, COOLANT FILTER, CONTROL PANEL, COMPRESSED AIR FILTRATION, AIR DRYER, MOTOR INSULATOR, 15 HP, 208V/3ø, WITH RECEIVER TANK, 66 DECIBEL NOISE LEVEL, 3/4" AIR OUTLET WITH FLEXIBLE CONNECTOR AND INGERSOLL RAND PACE ECONOMIC SYSTEM CONTROL. SET AT 80-90 PSI. (INGERSOLL RAND COMPRESSED AIR UNIT COMPLETE AIR SYSTEM AS EQUAL)

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02.19.10	1	PERMIT SET
04.02.10	2	GMP CONTRACT SET

DATE:	No.:	REVISION:
11.11.10		CONTRACT SET

SHEET TITLE:
SCHEDULES AND NOTES

09.0394

P-0.02

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