## Dwgs\PRO\7051Kr01.dwg, Ö

ABBREVIATIONS: DIAMETER ALLIM AL LIMINITA BLIND FLANGE BLDG BUILDING CB CAST IRON CO CONC CONT CPL DET DIA DISCH DMH DI DN DR ECC CLEANOLIT CONCRETE CONTINUED COUPLING DETAIL DIAMETER DISCHARGE DRAIN MANHOLE DUCTILE IRON DOWN ECCENTRIC ELL ELL F! FVATION FLBOW EQUIPMENT EXISTING EXPANSION FLOOR DRAIN EQUIP EXIST EXP FD FE FIT FLG FLR FM FPHB FRP FINAL EFFLUENT FINAL EFFLUENT
FLOW INDICATING TRANSMITTER
FLANGE
FLOOR
FORCE MAIN
FROST PROOF HOSE BIBB FIBERGLASS REINFORCED POLYESTER GT GA GALV HB HP HYD GAUGE GALVANIZED ID INF INSIDE DIAMETER INFI LIENT INVERT LEVEL ELEMENT
LEVEL INDICATING TRANSMITTER
LONG RADIUS MAXIMUM MECHANICAL MANUFACTURER MANHOLF MH MIN MJ MTD NO NPT OC OD OH PE PRV PRW PVC MINIMETER MECHANICAL JOINT MECHANICAL JOINT
MOUNTED
NUMBER
NATIONAL PIPE THREAD ON CENTER OUTSIDE DIAMETER OVERHEAD POLYETHYLENE PRESSURE RELIEF VALVE OR PRESSURE REGULATING VALVE PROCESS WATER (CITY WATER USED FOR PROCESS — NON-POTABLE) POLYVINYL CHLORIDE RED REDUCER REQ'D S SAM SCH SEWER SAMPLE LINE SCHEDULE SD SECT STORM DRAIN SECTION SECTION
SHEET
SLUICE GATE
SANITARY SEWER MANHOLE
SUMP PUMP
SUMP PUMP
SUMP PUMP DISCHARGE
STAINLESS STEEL
STAINLESS STEEL SHT SLG SMH SP SPD SS STD STG STL SW THK TYP UD VERT STOP GATE STEEL SEAL WATER THICKNESS TYPICAL UNDERDRAIN VERTICAL POTABLE WATER

YARD HYDRAN

## PROCESS GENERAL NOTES:

1. ALL EQUIPMENT AND PIPING LAYOUT DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH 1. ALL EQUIPMENT AND PIPING LAYOUT DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH EQUIPMENT SUPPLIED, AND/OR EXISTING CONDITIONS. SOME INFORMATION ASSOCIATED WITH EXISTING STRUCTURES, PIPING AND EQUIPMENT LOCATIONS, ELEVATIONS AND SIZES, WERE TAKEN FROM THE RECORD DRAWINGS FOR THE TOWN OF EAST LONGMEADOW. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES, EQUIPMENT OR PIPING THAT MAY BE AFFECTED. IN SOME SPECIFIC INSTANCES, SOME DIMENSIONS, ELEVATIONS, ELEVATIONS, ELEVATIONS, ELEVATIONS, ELEVATIONS, ELEVATIONS, ELEVATIONS, THIS DOES NOT HOWEVER, LIMIT THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATED ALL NECESSARY INFORMATION FOR HIS CONSTRUCTION.

2. ALL BURIED CONNECTIONS TO STRUCTURES, INCLUDING BUT NOT LIMITED TO SEWER FORCE MAIN AND GRAVITY PIPING SHALL HAVE SLEEVE TYPE CONNECTIONS APPROXIMATELY 4 FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED (SCLID SLEEVE TYPE). REFER TO SPECIFICATION SECTION 15088.

3. ALL PIPING (EXCLUDING BUILDING DRAINS/SEWER) INSTALLED BELOW SLABS SHALL BE ENCASED IN CONCRETE. SEE STRUCTURAL DRAWINGS FOR DETAILS.

4. PROVIDE CAST OR DUCTILE IRON WALL CASTINGS, OR GALVANIZED STEEL PIPE SLEEVES, FOR ALL PIPE PENETRATIONS MADE THROUGH CONCRETE FOUNDATIONS, WALLS AND SLABS. ALL WALL SLEEVES AND WALL CASTINGS SHALL HAVE WATERSTOPS. SEE PROCESS, MECHANICAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF PENETRATIONS. NEW PENETRATIONS THROUGH EXISTING STRUCTURE WALLS SHALL BE BY CORING MACHINE AND "LINK-SEAL" TYPE SEALS, UNLESS OTHERWISE INDICATED. OPENINGS TO BE COMPATIBLE WITH REQUIRED PIPING AND STANDARD LINK SEAL SIZES.

5. FOR PIPING MATERIAL, SEE THE PIPE SCHEDULE IN SPECIFICATION SECTION 15050.

6. ALL FLOW ELEMENTS SHALL BE LOCATED A MINIMUM OF TEN PIPE DIAMETERS DOWNSTREAM AND FIVE DIAMETERS UPSTREAM OF ANY HYDRAULIC DISTURBANCE, EXCEPT IN SITUATIONS WHERE DIMENSIONAL CONSTRUNTS PRECLUDE THESE SEPARATION DISTANCES. IN THESE CASES THE ENGINEER WILL REVIEW THE LAYOUT AND PROVIDE REVISED MINIMUM SEPARATION DISTANCES.

7. PROVIDE DRIP PANS, WITH CENTRAL COLLECTION POINT AND DRAIN TO FLOOR, FOR ELECTRICAL AND INSTRUMENTATION EQUIPMENT LOCATED BENEATH LIQUID CARRYING PIPES.

8. ALL WATER HOSE BIBBS SHALL BE PROVIDED WITH A HOSE RACK AND HOSE, ALONG WITH A SIGN INDICATING "NOT SUITABLE FOR DRINKING". FOR ADDITIONAL HOSE BIBB AND HOSE RACK INFORMATION SEE SPECIFICATION SECTION 15401 AND DRAWINGS. PROVIDE 50" OF HOSE AS SPECIFIED IN SPECIFICATION SECTION 15401 AT EACH HOSE BIBB UNLESS OTHERWISE INDICATED.

9. INSTALL CORPORATION COCKS ON ALL BUILDING AND STRUCTURE INTERIOR PIPING HIGH POINTS TO PREVENT AIR BINDING, CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT NUMBER AND LOCATIONS OF THESE CORPORATION COCKS BASED UPON INFORMATION DEPICTED ON DRAWINGS AND ACTUAL FIELD ROUTING OF PIPING. REVIEW LOCATIONS WITH ENGINEER BEFORE INSTALLATION. THESE MANUAL AIR RELEASES SHALL INCLUDE A 1/2-INCH BRASS CORPORATION COCK WITH 1/2-INCH COPPER TUBING ADEQUATELY SUPPORTED, EXTENDING TO A LOCAL AREA DRAIN. ROUTING OF TUBING AND SELECTED DRAIN TO BE REVIEWED WITH, AND ACCEPTED BY, ENGINEER.

10. PIPES 3-INCH IN DIAMETER AND UNDER SHALL HAVE UNIONS INSTALLED ADJACENT TO EQUIPMENT AND TANKS, UNLESS OTHERWISE NOTED ON DRAWINGS. FLANGES ARE ACCEPTABLE ON 3-INCH DIAMETER PIPING.

11. ALL PIPES SHALL BE ADEQUATELY RESTRAINED AND SUPPORTED IN ACCORDANCE WITH SPECIFICATION SECTION 15094.

12. AFTER INSTALLATION, ALL PIPELINES SHALL BE PRESSURE TESTED FOR TIGHTNESS IN ACCORDANCE WITH SPECIFICATION SECTIONS 15050 AND 02755. ALL LEAKS SHALL BE CORRECTED AND RETESTED UNTIL PRESSURE TEST IS SATISFACTORY COMPLETED

13. ALL PIPING SHALL BE CLEANED, TO THE SATISFACTION OF THE ENGINEER, BEFORE TESTING.

PROVIDE 3 1/2-INCH HIGH (MIN.) REINFORCED CONCRETE PAD UNDER ALL EQUIPMENT, CONTROL PANELS, PIPE AND EQUIPMENT SUPPORTS, TANKS, ETC. UNLESS OTHERWISE INDICATED.

15. DO NOT SCALE DISTANCES OR DIMENSIONS FROM THE DRAWINGS, WRITTEN DIMENSIONS SHALL PREVAIL. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

16. REFER TO SPECIFICATION SECTION 01070 AND THIS DRAWING FOR A LISTING OF COMMONLY USED

17. DISCHARGE LINES FOR EACH PUMP SHALL INCLUDE A 3/4" TAP AND BALL VALVE FOR DRAINING THE LINE DURING PUMP MAINTENANCE.

18. ALL REDUCERS SHALL BE CONCENTRIC TYPE UNLESS DESIGNATED AS ECCENTRIC (ECC) ON THE DRAWINGS. ECCENTRIC REDUCERS SHALL BE INSTALLED WITH FLAT SIDE UP.

19. PRESSURE GAGES SHALL BE PROVIDED ON THE SUCTION AND DISCHARGE LINES OF EACH PUMP, PRESSURE GAGES SHALL BE INSTALLED AS SHOWN ON DRAWING PR-4.

20. ALL PENETRATIONS BETWEEN CLASS 1, DIVISION 1 AREAS AND UNCLASSIFIED AREAS SHALL BE GAS

21. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE INSTALLATION. THE USE OF UNI-FLANCES WILL NOT BE ALLOWED.

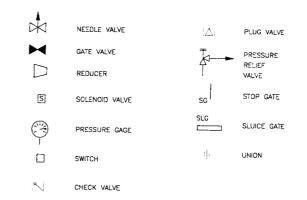
22. CONTRACTOR TO NOTE THAT ALL EXISTING INFORMATION ON THE DRAWINGS IS SHOWN WITH A LIGHTER LINE WEIGHT AND INDICATED WITH A SLANTED TYPE TEXT.

23. CONTRACTOR SHOULD BE AWARE OF THE CONVENTION USED IN IDENTIFYING PIPE ELEVATIONS. IN GENERAL, UNLESS OTHERWISE INDICATED, ALL PIPES EXITING A STRUCTURE WHICH ARE CONTINUED ON CIVIL DRAWINGS, HAVE INVERT ELEVATIONS SHOWN. ALL PIPE ELEVATIONS GIVEN WITHIN A STRUCTURE ARE

24. CONTRACTOR SHALL PROVIDE A PIPING LAYOUT DRAWING VERIFYING THE LOCATIONS OF ALL PIPE PENETRATIONS INCLUDING ELECTRICAL CONDUIT RUNS, ELEVATIONS, EQUIPMENT LOCATIONS, PIPE INVERT ELEVATIONS PRIOR TO THE PLACEMENT OF ANY CONCRETE.

25. THE GENERAL CONTRACTOR SHALL BE REQUIRED TO COORDINATE THE INSTALLATION OF THE PROCESS PIPING AND EQUIPMENT WITH THE ELECTRICAL, MECHANICAL, AND PLUMBING SUBCONTRACTORS.

## **LEGEND**



DRAWN BY TAP
CHECKED BY SCH.
DATE 12-19-02
APROVED BY SCH
DATE 1-31-03
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