



KEYNOTE

AFF	ABOVE FINISHED FLOOR
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CO	FLOOR CLEANOUT
COR	CONTRACTING OFFICER'S REPRESENTATIVE
DEG	DEGREE
DT	DRAIN TILE
EF	EXHAUST FAN
EX	EXISTING
FD	FLOOR DRAIN
FPHB	FROSTPROOF HOSE BIBB
KW	KILLOWATTS
OSI	OIL/WATER SEPARATOR
RP	RAIN WATER CONNECTORS
SP	SUMP PUMP
UH	UNIT HEATER

SANITARY

SUMP PUMP WITH HEAVY DUTY STRUCTURAL
FOAM BASIN, "TORQUE-STOP" PUMP
RESTRAINTS, COMPRESSION MOLDED
FIBERGLASS COVER WITH NO-SKID PATTERN
LIBERTY PUMP OR VA APPROVED EQUAL
MODEL# 702/L7E2A, 3/4 HP, 208 VOLT, 20 FT HEAD
MODEL# AE24L-3, 120 VOLT, CONTROL PANEL

PIPE SIZING BASED ON LOCAL RATES OF RAINFALL, PER INTERNATIONAL PLUMBING CODE, OF 3" PER HOUR. COVERED PARKING LEVELS ARE CALCULATED BY CONTRIBUTION FROM WIND BLOWN RAIN. WIND BLOWN RAIN IS BASED ON 50% OF OPEN WALL AREA TIMES RAINFALL OF 3" PER HOUR.

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON WITH NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON WITH HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. ALL R.W.C.'S SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "L" COPPER PIPE U.N.O..
2. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR AT SUPPORTED TIERS AND 1" AT GROUND TIER. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.
3. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED WITH PIPE GUARDS. SEE DETAIL #7, DRAWING P-301.
4. PROVIDE CAST IRON PIPE SLEEVES 2" LARGER THAN PIPE OUTSIDE DIAMETER AT GRADE SLAB PENETRATIONS. WRAP PIPES WITH 1/2" FIBERGLASS AND SEAL OPENING WITH APPROVED SEALANT. TYPICAL AT GRADE SLAB.
5. PROVIDE 1/3 CU. YD. CONCRETE THRUST BLOCK AT BASE OF ALL RAIN WATER COLLECTORS AND AT ALL BENDS BELOW GRADE, FOR SUPPORT.
6. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE LOADS AND RETAIN THE PIPING SECURELY IN POSITION UNDER FULLY LOADED CONDITIONS. REFER TO HANGER DETAILS ON DRAWING P-301.
7. COORDINATE ALL BLOCK-OUTS REQUIRED WITH GENERAL CONTRACTOR.
8. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
9. THE USE OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS IS PROHIBITED. MOUNTING HOLES FOR ALL FASTENERS CAST IN PLACE ADDITIONAL MOUNTING HOLES MAY BE DRILLED WITH APPROVAL OF STRUCTURAL ENGINEER.
10. ALL PIPING AND MECHANICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN A MINIMUM HEADROOM CLEARANCE OF 8'-3".

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