GENERAL NOTES

1. MINIMUM SUMP INTERIOR DIMENSIONS OF 3' X 3' X 30", OR 30" X 3' X 3' DIA.

2. HIGH TEMPERATURE (200°F) RATED PUMP (CONTINUOUS SUBMERGENCE) AND HARD-WIRED HIGH TEMPERATURE (200°F) FLOAT. NO CONTROL PANELS, EVEN FOR DUPLEX PUMPS.

SIZE PIPING FOR 50% SAFETY MARGIN ON FRICTION HEAD LOSSES, NO MARGIN ON STATIC ELEVATION HEAD, ONLY ONE PUMP OPERATING AT A TIME (BUT BOTH PUMPS COULD OPERATE AT SAME TIME). PUMP MINIMUM GPM TO BE 25 GPM AT DESIGN HEAD (SINGLE PUMP OPERATING).

PIPE TO LEAVE VAULT/TUNNEL AND RUN MINIMUM 36" UNDERGROUND (FROST HEAVES) UNTIL IN CLOSE PROXIMITY OF DISCHARGE POINT

DRAIN, 1/2" BALL VALVE WITH THREADED CAP

WELDED-ON RING (FOR CAST-IN PLACE SUMPS)

1/2" MESH GRATING, REMOVABLE WITHOUT DISASSEMBLING PIPING, TRIM CRATE AS NECESSARY TO ALLOW PERSON TO REACH DOWN TO MANUALLY OPERATE PUMP SWITCH (TYP).

MINIMUM SLOPE OF 1/2" PER FOOT

STAINLESS STEEL WORM-GEAR CLAMP, OR MULTIPLE ZIPTIES (TYP). FLOATS TO BE SET 2-3" DIFFERENT IN ELEVATION

PLACE PUMPS ON TOP OF 8" CINDER BLOCK, OR INSIDE 12" TALL STAINLESS STEEL BASKET, WITH 3/16" DIA.PERFORATED HOLES (U.S. PLASTIC CORP., 12 X 12 STAINLESS DIPPING BASKETS).

STAINLESS STEEL BASIN OR FORMED CONCRETE

3 LAYERS OF NON-UNDERLAPPING RIDGED BOARD INSULATION (AS DICTATED ON A PROJECT BY PROJECT BASIS)

30" DEEP

SUMP PUMP

SUMP PUMP

SUMP PUMP

SUMP PUMP

UNION (TYP)

Facilities Planning & Construction
Standard Detail