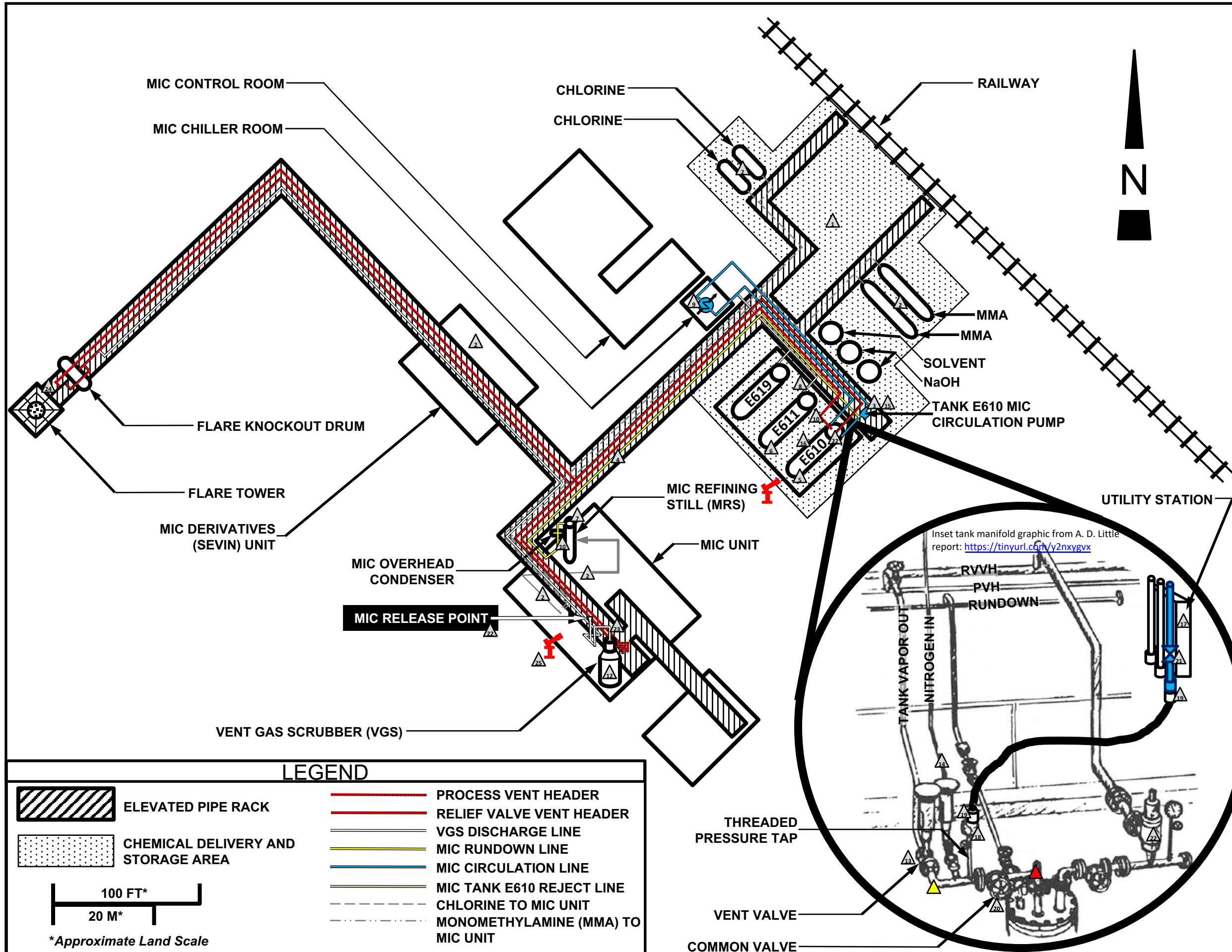


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NOTES

- 1 Excess raw material inventory remained in the Chemical Delivery and Storage Area.
- 2 A plan was created to deplete excess raw material inventory by January 1, 1985.
- 3 Tank E610's MIC circulation pump was repaired
- 4 Tank E610's MIC rundown line was restored
- 5 Tank E610 served as the "PARENT" tank
- 6 Tank E611 served as the "CHILD" tank
- 7 MIC rundown into Tank E610 started on October 7, 1984
- 8 Tank E610 MIC reject line was used to fill Tank E611 on October 18, 1984
- 9 MIC refrigeration function failed on October 19, 1984 (MIC circulation pump seal leaked)
- 10 Trimer-choked PVH backpressure caused MRS tower flooding & E610 contamination
- 11 MIC production was stopped on October 22, 1984 (Tank E610 was filled to capacity)
- 12 VGS was shut down on October 23, 1984
- 13 Trimer-choked Tank E610 vent valve failed to close
- 14 Nitrogen pressure in Tank E610 failed due to vent valve leak into PVH
- 15 Tank E610 feed out through Tank E611 failed (circulation pump leaked and was isolated)
- 16 Tank E610 feed out through MIC transfer pump failed (transfer pump was abandoned)
- 17 Tank E610 cleaning attempt was made on December 2, 1984 with utility station water
- 18 Tank E610 head manifold pressure gauge was replaced with a threaded hose coupling
- 19 Utility station water hose was connected to Tank E610 head manifold pressure tap
- 20 Trimer-choked Tank E610 common valve failed to close
- 21 Utility station water valve was opened to flush trimer deposits out of the vent valve
- 22 Intended water flow direction (through the vent valve, into the PVH)
- 23 Actual water flow direction (through the common valve, into Tank E610)
- 24 40 PSIG in Tank E610 opened pressure relief valve at 12:30 AM on December 3, 1984
- 25 VGS failure (max design rate exceeded and low NaOH concentration)
- 26 Flare failure (corroded and partially disassembled flare header piping)
- 27 Water curtain failure (low supply header pressure from multiple fire monitors online)

LEGEND

	ELEVATED PIPE RACK		PROCESS VENT HEADER
	CHEMICAL DELIVERY AND STORAGE AREA		RELIEF VALVE VENT HEADER
			VGS DISCHARGE LINE
			MIC RUNDOWN LINE
			MIC CIRCULATION LINE
			MIC TANK E610 REJECT LINE
			CHLORINE TO MIC UNIT
			MONOMETHYLAMINE (MMA) TO MIC UNIT

*Approximate Land Scale

