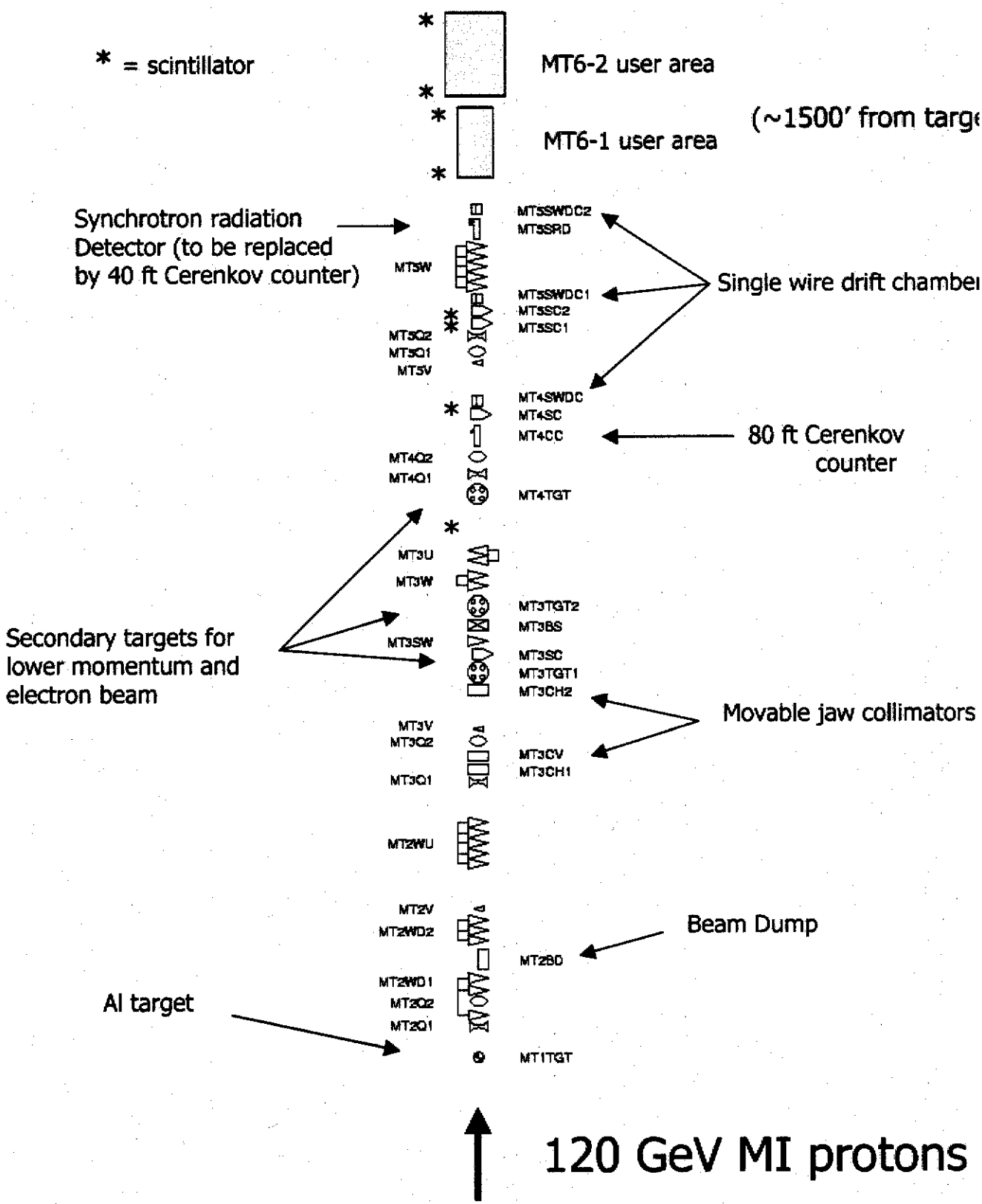
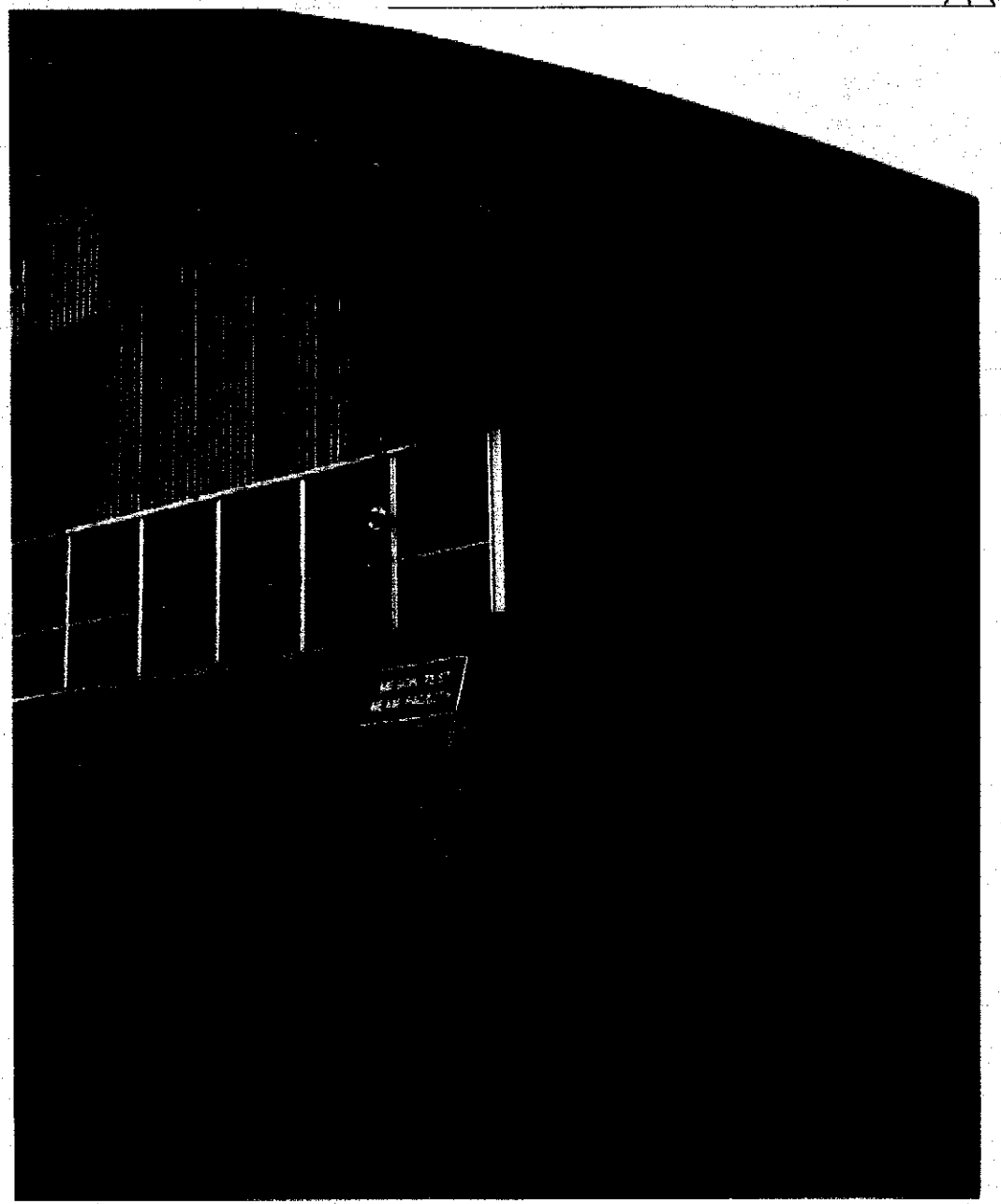
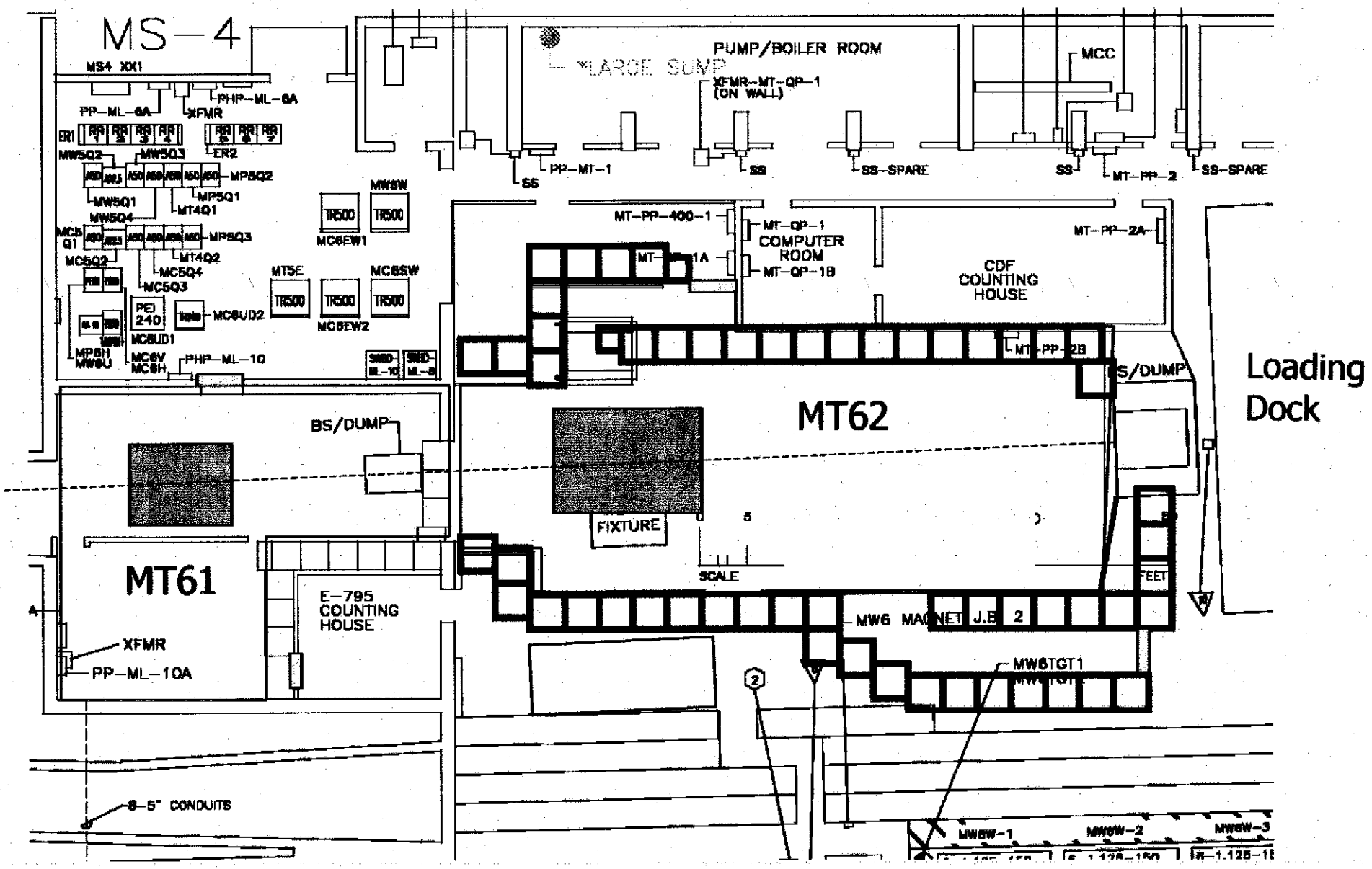
Operational Characteristics

- Tom Kobilarcik is the beamline physicist and has come up with a plan for the beamline.
- There will be three operational modes:
  - Proton Mode: We will tune all bend magnets for 120 GeV. To reduce flux in user areas, we have to turn off focusing quadrupoles and insert pinhole collimator. Rates will be on the order of 1 MHz.
  - Secondary, or 'Pion' Mode: We will vary tune of bend magnets according to momentum needed. Quads will be in focusing mode and pinhole collimator will be out. Maximum tune will be 80 GeV. Rates will be on the order of 50 kHz.
  - Electron Mode: Depending on momentum, this tune will probably use the secondary targets and select for photons impinging on a tertiary target. Rates will be low and momentum is probably limited to 5 GeV and above.
- Spot sizes can probably be made as small as a few mm square


* = scintillator
MT6-2 user area
MT6-1 user area
(~1500' from targe
Synchrotron radiation Detector (to be replaced by 40 ft Cerenkov counter)
MT5SWDC2
MT5SRD
MT5W
MT5SWDC1
MT5SC2
MT5SC1
MT5Q2
MT5Q1
MT5V
Single wire drift chamber
MT4SWDC
MT4SC
MT4CC
80 ft Cerenkov counter
MT4Q2
MT4Q1
MT4TGT
MT3U
MT3W
MT3TGT2
MT3BS
MT3SW
MT3SC
MT3TGT1
MT3CH2
Secondary targets for lower momentum and electron beam
Movable jaw collimators
MT3V
MT3Q2
MT3CV
MT3CH1
MT3Q1
MT2WU
MT2V
MT2WD2
Beam Dump
MT2BD
MT2WD1
MT2Q2
MT2Q1
Al target
MT1TGT
120 GeV MI protons

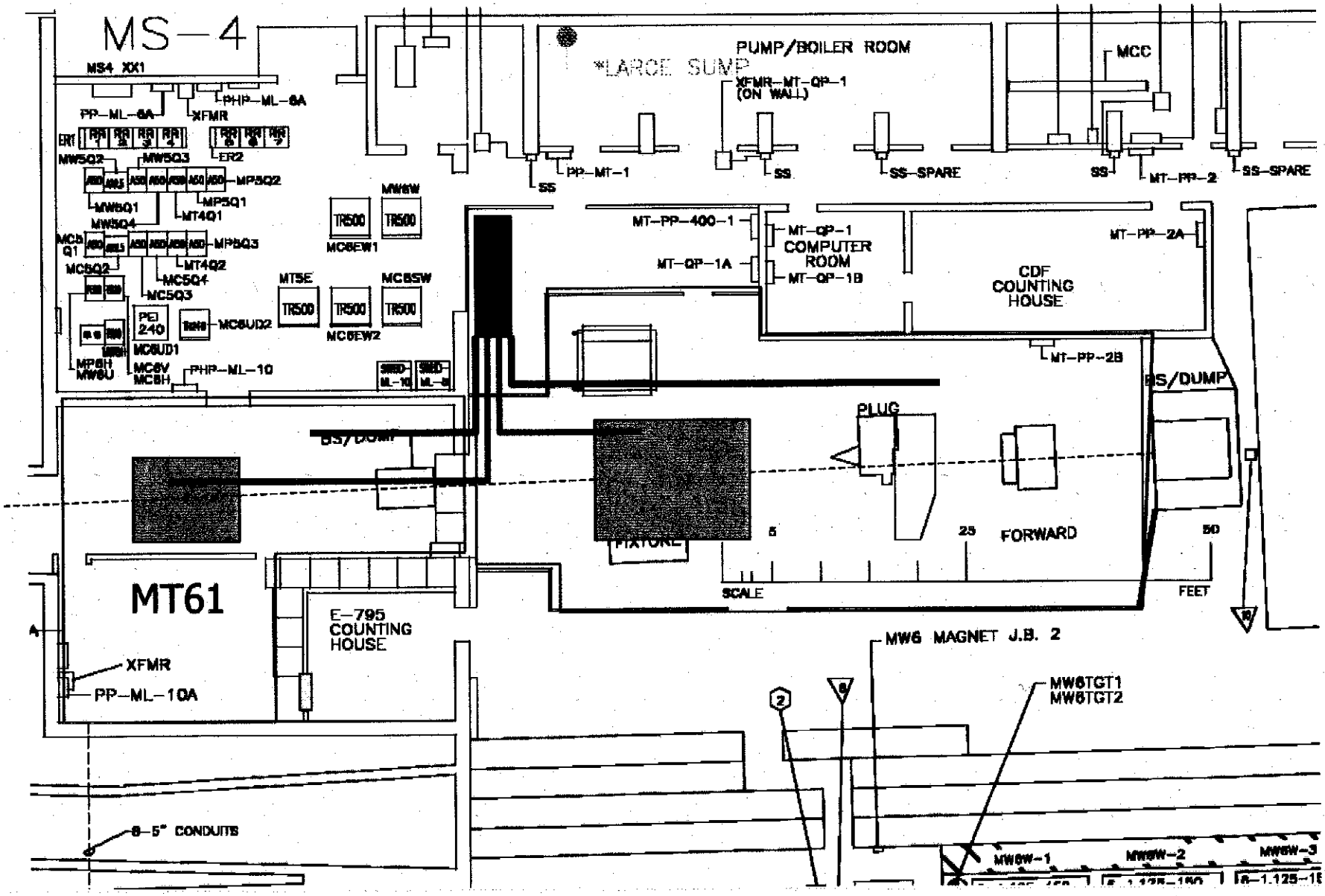


MT6 Test Beam User Areas



= Concrete = Enclosed climate control areas = Controlled access gate

MT6 Test Beam User Areas – General purpose Gas Lines



= Mixing system = Gas Lines