GENERAL NOTES

1. Design Loads

   A. Roof snow loads are as follows:
   Barracks Building - 35 psf
   Admin. & Supply Bldg. - 20 psf
   Battalion HQ. - 20 psf
   Red Cross Bldg. - 30 psf
   Clothing Store - 23 psf
   Dining Facility - 25 psf

   B. Second and third floor loads for the Barracks Buildings are as follows:
   60 psf Live Load for corridors
   40 psf Live Load for all other areas
   80 psf Dead Load which includes 70 psf plank and topping weight

   C. Seismic Factors
   Zone 1, Z=3/16, CS=.14, K=1.33, I=1.0 except Dining Facility I=1.25

   D. Wind Loads (ANSI A58.1-1982)
   Wind Velocity= 70 mph. Exposure "C"

   E. Allowable Soil Bearing Pressure
   Barracks Bldgs. 2000 psf
   Admin. & Supply Bldg. 1500 psf
   Battalion HQ. 1500 psf
   Red Cross Bldg. 3000 psf
   Clothing Store 3000 psf
   Dining Facility 4000 psf
   All footings shall bear a minimum of one foot into virgin soil or to frost depth, whichever is lower.
   F. Maximum frost depth is 2 1/2 feet below finished grade.

2. Materials

   A. Concrete shall have a minimum compressive strength of 3000 psi at 28 days.

   B. Reinforcing shall conform to ASTM A615, A616, or A617 Grade 60.

   C. Steel joists shall conform to the latest SJI Standard Specifications for open web steel joists. Bridging shall be anchored into the masonry walls.

   D. Structural steel shall conform to ASTM A36.

   E. Steel roof deck - minimum structural properties
   22 gage, 1 1/2" depth UNO
   Barracks Bldgs. I=0.130 S=0.138 20 GAGE
   Admin. & Supply Bldg. I=0.127 S=0.140
   Battalion HQ. I=0.074 S=0.085
   Clothing Store I=0.081 S=0.057
   Dining Facility I=0.162 S=0.158 20 GAGE

   F. Use E70XX electrodes for all welding.

   G. Anchor bolts shall conform to ASTM A307. All other bolts shall conform to ASTM A325-N.

   H. Precast planks shall be designed for the loads given. Maximum deflection or increase in camber for short and/or long term deflection shall not be greater than L/480. Planks supporting masonry walls shall be designed for a linear load of 270 plf along the length of the wall, in addition to the uniform loads given.

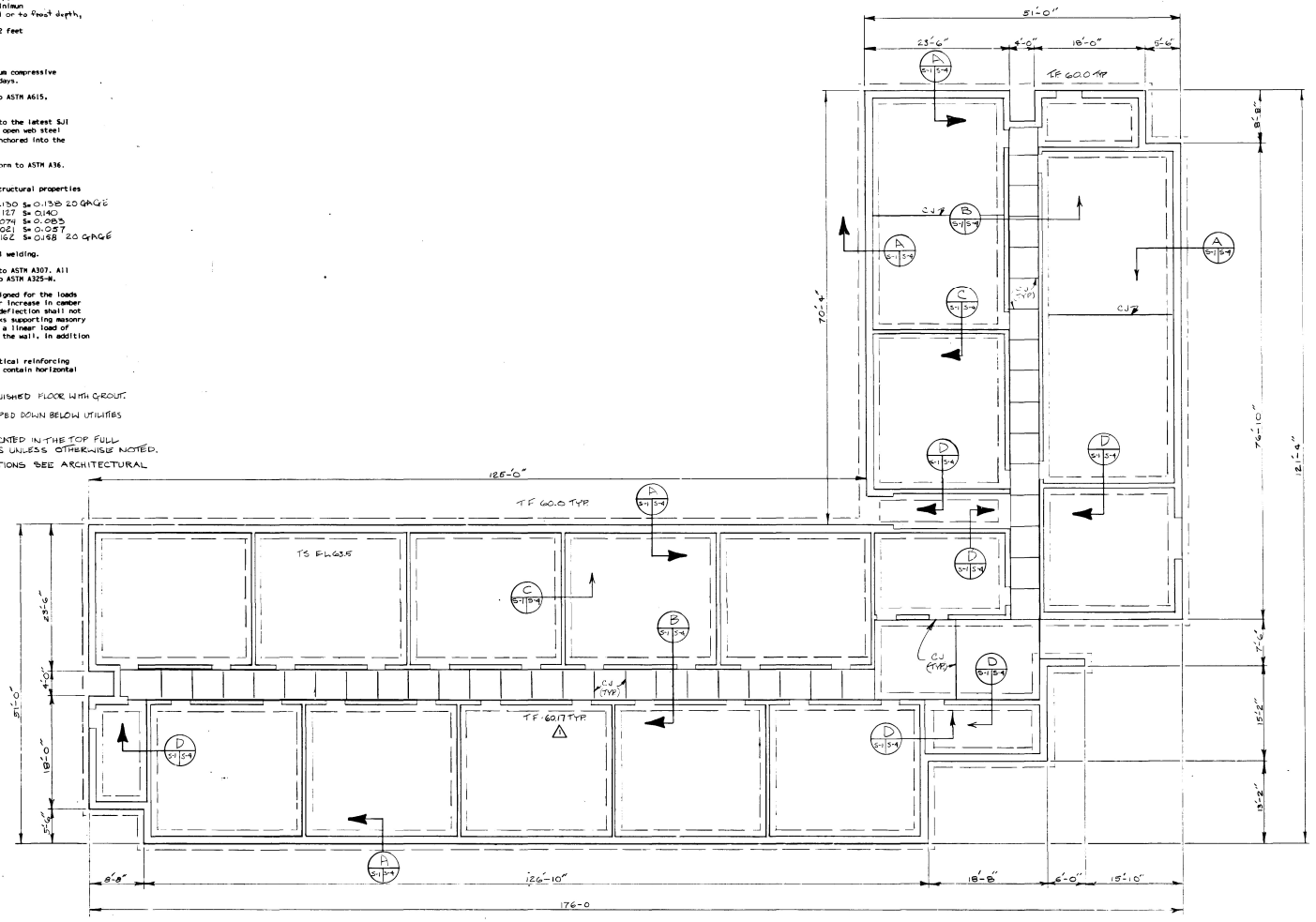
3. All CMU walls shall contain #5 vertical reinforcing at 8'-0" o.c. UNO. All walls shall contain horizontal joint reinforcing at 16" o.c. UNO.

4. FILL ALL CMU CELLS BELOW FINISHED FLOOR WITH GROUT.

5. ALL FOOTINGS SHALL BE STEPPED DOWN BELOW UTILITIES ENTERING THE BUILDINGS.

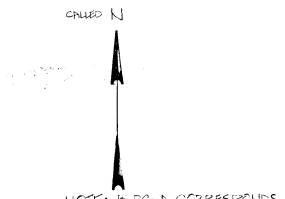
6. BOND BEAMS SHALL BE LOCATED IN THE TOP FULL COURSE OF MASONRY WALLS UNLESS OTHERWISE NOTED.

7. FOR PARTITION WALL LOCATIONS SEE ARCHITECTURAL FLOOR PLANS.



FOUNDATION - PLAN
SCALE: 1/8"=1'-0"
4 0 4 8 12 16 20

NOTE: ALL MASONRY WALLS NOT SHOWN SHALL BE LIGHTWEIGHT.



NOTE: BLDG A CORRESPONDS TO BLDG 5 ON THE SITE PLAN.

REV	DATE	DESCRIPTION	BY
1	MAY 90	REVISED AS BUILT	

U.S. ARMY ENGINEER DISTRICT, BALTIMORE
CORPS OF ENGINEERS
BALTIMORE, MARYLAND

ABERDEEN PROVING GROUND MARYLAND

ENLISTED BARRACKS PHASE IV
BARRACKS BLDG A

FOUNDATION PLAN

DRAWING NUMBER F-721-90-12 | PLATE 98

SCALE: AS SHOWN | DATE: 5 FEB. 1987 | SHEET S-1

41803