SPECIFICATIONS

GENERAL: The work under this section shall be furnished and/or furnished and erected in conformity with the general conditions, special conditions, including modifications and governing contract documents.

WORK INCLUDED:

- 1. Furnish, deliver and erect all Prestressed floor and roof slabs.
- 2. If purchaser elects to do own erection, StresCore, Inc. reserves the right to direct and inspect the erection and grouting.
- 3. Furnish and install weld plates, headers, as required per shop drawings.
- 4. Grouting of the joints with 3:1 sand/cement mix design shall be done by the erector in a workmanlike manner.
- 5. Submit shop drawings to the Architect for approval, showing setting plan, reinforcing details.
- 6. The furnishing of openings greater than 6" in diameter, as shown on plans.

WORK NOT INCLUDED:

- 1. Caulking joints in finished ceiling area as required.
- 2. Concrete topping
- 3. Concrete for lintels at wall connections.
- 4. Forming, shoring and miscellaneous supports.
- 5. Hangers for piping, conduit, etc.
- 6. Mechanical openings less than 6" in diameter.

MATERIALS AND FABRICATION:

Floor and roof slabs shall be COREFLOOR as manufactured by StresCore Inc., of South Bend, Indiana.

MATERIALS USED IN THE MANUFACTURE OF COREFLOOR SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

- 1. All concrete materials shall be clean and properly graded. The concrete shall have a minimum compressive strength of 3500 PSI at release of prestress strands and 6500 PSI at 28 days.
- 2. Prestressing strands shall be uncoated, 7 wire low relaxation conforming to A.S.T.M. C-416

- 3. Portland Cement A.S.T.M. C-150.
- 4. Concrete Aggregates A.S.T.M. C-33.
- 5. Curing of slabs shall be by a method suitable to obtain uniformity of color and strength. The strength shall be as specified under item (1).
- 6. Slabs shall be 48" x 6", with 8-4" dia. cores, 48" x 8", with 6-6" dia. cores, 48" x 10", with 5-7½" dia. cores or 48" x 12", with 4-9 $^9/_{16}$ " dia. cores in each slab and prestressed to sustain the superimposed loads as indicated on the drawings. In general the design of the slabs shall conform to ACI 318-89.

ERECTION AND INSTALLATION:

- 1. Erection shall be carried out by experienced workman under competent supervision.
- 2. Bearing surface shall be prepared by others true to a level line. Minimum recommended bearing is 3" on masonry or concrete, and 2½" on structural steel.
- 3. Installation of the slabs shall be made by leveling the floor and roof units in a workmanlike manner, keeping the units tight and at right angles to the bearing walls.
- 4. ½" Ethafoam rope shall be placed in the bottom of the grout joint. The rope shall be placed securely so as not to permit grout to seep through the joint.
- 5. Slabs shall be grouted by a 1:3 cement-sand mix with proper care taken to see that the joints are properly filled. Grout requirements: 1 cubic yard per 2500 square feet.
- 6. Welding shall be done by experienced welders to fulfill the details shown on the drawings.

TOLERANCES:

- 1. Length $\pm \frac{1}{2}$ "
- 2. Cross section dimensions $\pm \frac{1}{4}$ "
- 3. Weld plates and inserts ± 1 "
- 4. Openings $\pm 1\frac{1}{2}$ "
- 5. Squareness $\pm \frac{1}{2}$ "
- 6. Differential camber of units of like design less than ½" per 10'-0", but not greater than ½".
- 7. Finish: Normal plant run finish. Small surface holes caused by air bubbles, minor chips and spalls will be tolerated.