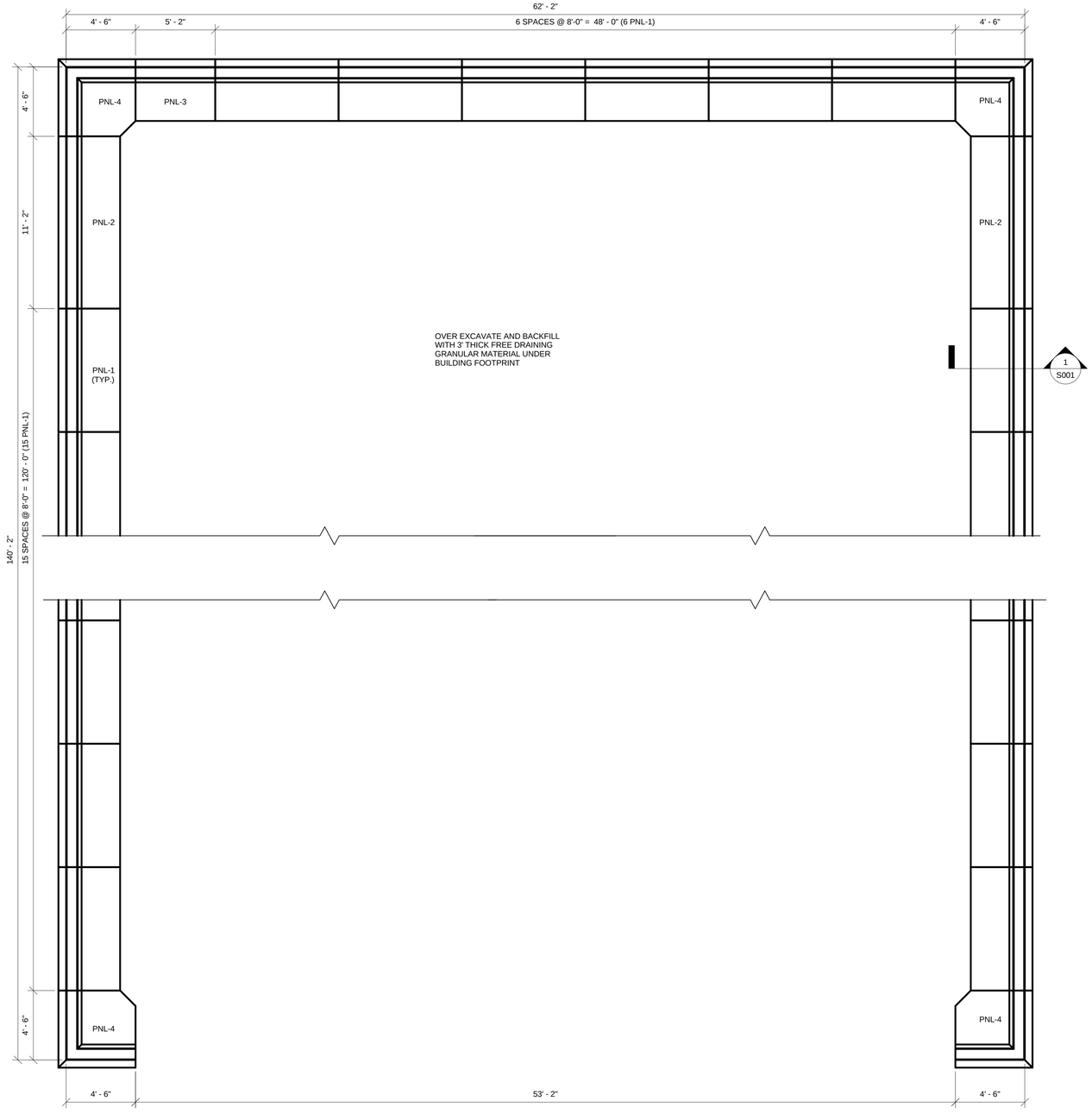

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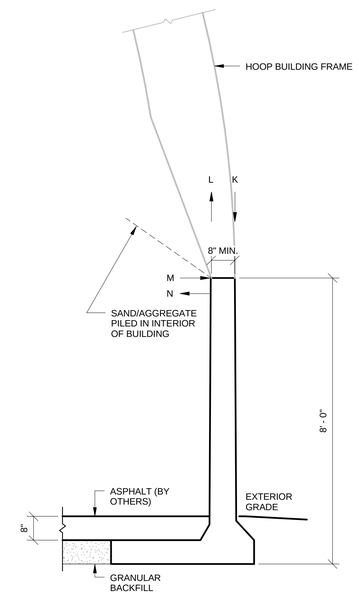
FOUNDATION PLAN - HOOP BUILDING
1/4" = 1'-0"

NOTES:

ALL ELEVATIONS REFERENCED TO FINISHED FIRST FLOOR LINE (+0'-0") = 911.00
FOR DIMENSIONS AND ELEVATIONS NOT SHOWN SEE ARCHITECTURAL

PERFORMANCE CRITERIA FOR PRECAST FOUNDATIONS:

1. FOUNDATIONS SHALL BE DESIGNED TO RESIST ALL APPLIED LOADS, INCLUDING:
   - REACTIONS FROM HOOP FRAMES (VERTICAL AND LATERAL). DESIGN SHALL CONSIDER THESE LOADS WHEN THE BUILDING IS EMPTY AND WHEN THE BUILDING IS FULL OF MATERIAL
   - LATERAL AND VERTICAL LOAD FROM SAND/AGGREGATE PILE ON INTERIOR OF BUILDING.
   - WIND LOAD.
2. BASIS FOR HOOP BUILDING FRAMING IS SPAN - TECH STB60X 2190 SERIES FABRIC BUILDING WITH 12'-0" FRAME SPACING AND 24'-10" FRAME HEIGHT.
3. SPAN - TECH FRAME REACTIONS AT TOP OF FOUNDATION WALL (SERVICE LEVEL):
   ENCLOSED CONDITION (K) VERTICAL LOAD 3.7K
   (L) VERTICAL LOAD 6.5K
   (M) HORIZONTAL LOAD 4.2K
   (N) HORIZONTAL LOAD 3.7K
   PARTIALLY ENCLOSED CONDITION (K) VERTICAL LOAD 5.6K
   (L) VERTICAL LOAD 6.5K
   (M) HORIZONTAL LOAD 4.2K
   (N) HORIZONTAL LOAD 4.1K
4. VERIFY ALL LOADS PROVIDED WITH HOOP BUILDING MANUFACTURER.
5. PROVIDE DETAILS OF ANY REQUIRED PANEL TO PANEL CONNECTIONS.
6. PRECAST FOUNDATION PANELS SHALL BE DESIGNED BY AN IOWA REGISTERED PROFESSIONAL ENGINEER FOR LOADS INDICATED ABOVE. CERTIFIED CALCULATIONS, SHOP DRAWINGS, AND LAYOUT PLAN SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.



1 PANEL SECTION
1/2" = 1'-0"

DESIGN NET ALLOWABLE FOUNDATION BEARING PRESSURE = 1500 PSF. VERIFY PRIOR TO PLACING PRECAST FOUNDATIONS.

GEOTECHNICAL ENGINEER TO EVALUATE SOIL UNDER NEW PRECAST FOUNDATIONS TO DETERMINE IF ANY OVER EXCAVATION AND BACKFILL IS REQUIRED.

PRECAST FOUNDATION SCHEDULE

Count	Type Mark	Wall Width
36	PNL-1	8'-0" PANEL
2	PNL-2	11'-2" PANEL
1	PNL-3	5'-2" PANEL
4	PNL-4	4'-6" X 4'-6" CORNER PANEL

0 8 16 32
SCALE (FEET)

SHUCK-BRITSON INC
CONSULTING ENGINEERS

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DISTRICT: 01
COUNTY: POLK
PROJECT NUMBER: BG-4D22(000)-80-77

DES MOINES, IOWA

STANDARD HOOP BUILDING
HOOP BUILDING FOUNDATION PLAN

IOWA DOT
SMARTER | SIMPLER | CUSTOMER DRIVEN
OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY
AMES, IOWA 50010 (515)239-1299

DATE: 05/20/15
DRAWN BY: CMH
APPROVED: JWS
REVISIONS: 07-15-15
SHEET OF
S001