

GENERAL NOTES:

1. GENERAL:

THESE PLAN ILLUSTRATE THE FOUNDATION DESIGN FOR A PRE-ENGINEERED METAL BUILDING (PEMB) CANOPY TO BE CONSTRUCTED AT 5700 COLLEGE BLVD, FARMINGTON, NEW MEXICO.

THE CANOPY WILL HAVE ONE WALL AND A ROOF; THE OTHER WALLS WILL BE OPEN. THE FLOOR UNDER THE CANOPY WILL BE SYNTHETIC TURF.

THE PEMB IS TO BE DESIGNED AND SEALED BY THE PEMB MANUFACTURER.

THE TURF IS TO BE SPECIFIED BY THE TURF SUPPLIER

ALL OTHER ASPECTS OF THE BUILDINGS, INCLUDING ARCHITECTURAL, MECHANICAL AND ELECTRICAL FEATURES ARE TO BE DESIGNED BY OTHERS.

THE ELEVATIONS AND FRAMING SHOWN ARE FOR GENERAL INFORMATION ONLY AND WILL BE MORE FULLY DETAILED BY THE PEMB MANUFACTURER.

2. CODES AND MANUALS:

- INTERNATIONAL BUILDING CODE 2021
- ASCE/SEI 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - LATEST EDITION

3. DESIGN CRITERIA:

- ROOF LIVE LOAD (NON-REDUCIBLE) - 20 PSF
- SNOW LOAD:
 - ROOF SNOW LOAD - 20 PSF
 - SNOW EXPOSURE FACTOR - CE=0.9
 - SNOW LOAD IMPORTANCE FACTOR - IS=1.0
- WIND:
 - ULTIMATE WIND SPEED (FIGURE 1609A) - 115 MPH (3 SECOND GUST)
 - WIND IMPORTANCE FACTOR - IW = 1.0
 - BUILDING CATEGORY - II
 - EXPOSURE - 'C'
- ALLOWABLE BEARING PRESSURE = (ASSUMED 2500 PSF)
- FUTURE BUILDING EXPANSION: NONE

4. CAST-IN-PLACE CONCRETE:

THE OWNER SHALL EMPLOY THE SERVICES OF A CONCRETE CONSTRUCTION SPECIAL INSPECTOR TO INSPECT THE REBAR PLACEMENT AND FORM CONSTRUCTION PRIOR TO PLACEMENT OF THE CONCRETE.

THE OWNER SHALL EMPLOY THE SERVICES OF A MATERIALS TESTING COMPANY TO SAMPLE AND TEST THE FRESH CONCRETE DURING PLACEMENT. THE TESTING SHALL INCLUDE TEMPERATURE, SLUMP, AIR CONTENT, AND COMPRESSIVE STRENGTH. A MINIMUM OF ONE TEST PER DAY OR ONE TEST FOR EACH 50 YARDS OF CONCRETE PLACED, WHICHEVER IS GREATER, SHALL BE PERFORMED.

CONCRETE SHALL CONFORM TO ACI 301.

REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH ACI 347.

ALL CONCRETE SHALL HAVE THE MINIMUM SPECIFIED STRENGTH AS SHOWN IN THE TABLE ON THIS SHEET.

ALL CONCRETE SHALL HAVE 4.5 TO 7.5 PERCENT AIR-ENTRAINMENT EXCEPT THOSE SURFACES TO RECEIVE STEEL TROWEL FINISH.

CONCRETE SHALL HAVE A SLUMP OF 2 TO 4 INCHES AT THE TIME OF PLACEMENT.

THE CONTRACTOR SHALL NOT CAST CONCRETE FOR FOUNDATIONS OR VERTICAL WALLS DIRECTLY AGAINST EXCAVATED SURFACES UNLESS THE FOLLOWING CONDITIONS ARE MET:

- THE SIDES OF THE EXCAVATION SHALL BE ABLE TO STAND VERTICAL WITHOUT SLOUGHAGE.
- CONCRETE SHALL NOT BE CAST IN SANDY OR LOOSE CONDITIONS.
- THE WIDTH OF THE EXCAVATION SHALL BE AT LEAST ONE INCH WIDER THAN THOSE ON THE DRAWINGS.
- REBAR SHALL BE PROPERLY LOCATED, ALIGNED, AND MAINTAIN PROPER CLEAR DISTANCES DURING CONCRETE PLACEMENT.
- SLOUGHAGE IS NOT PERMITTED TO BE MIXED WITH WET CONCRETE AND SHALL BE REMOVED PRIOR TO AND DURING PLACEMENT.

CONCRETE EXPOSED TO SOIL SHALL BE MANUFACTURED WITH PORTLAND CEMENT TYPE II.

CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS SPECIFIED OTHERWISE.

5. REINFORCING STEEL:

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.

CONCRETE COVER SHALL BE AS SHOWN IN THE TABLE ON THIS SHEET.

TENSION AND COMPRESSION LAPS IN REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318, CHAPTER 12. THE MINIMUM LAP LENGTH SHALL BE AS SHOWN IN THE TABLE ON THIS SHEET.

HORIZONTAL REINFORCING SHALL HAVE BENT (CORNER) BARS OF THE SAME SIZE AND SPACING WITH THE APPROPRIATE LAP LENGTH AS SHOWN IN THE TABLE ON THIS SHEET.

REINFORCING BARS SHALL NOT BE WELDED IN ANY MANNER.

BAR SUPPORTS AND SPACERS SHALL BE SECURELY FASTENED TO BARS AND PROVIDED IN ACCORDANCE WITH ACI 315.

CHAIRS WITH 22 GAGE SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE.

6. POST INSTALLED ANCHORS:

ALL POST INSTALLED ANCHORS SHALL BE AS SPECIFIED IN THE DETAILS OF THESE DRAWINGS. THE CONTRACTOR MAY ONLY SUBSTITUTE PRODUCTS WITH ENGINEER'S APPROVAL.

SUBMIT ALL PROPOSED ANCHORING SYSTEMS, AS WELL AS, THE ICC-ES REPORTS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

7. PRE-ENGINEERED BUILDING:

THE FOUNDATION SIZES AND CONFIGURATION SHOWN ARE BASED ON ASSUMED PEMB PLANS THAT HAVE NOT YET BEEN DEVELOPED.

THE STRUCTURAL ENGINEER SHALL REVIEW THE FINAL SEALED AND SIGNED LAYOUT AND REACTIONS FROM THE PEMB MANUFACTURER TO VERIFY LOCATIONS AND SIZES OF FOUNDATIONS. ANY CHANGES TO THE LOADS OR LAYOUT MAY RESULT IN CHANGES TO THE FOUNDATION DESIGN.

THE BUILDING DESIGN SHALL AT A MINIMUM CONFORM TO THE DESIGN CRITERIA GIVEN HEREIN. THE BUILDING MANUFACTURER IS REQUIRED TO DETERMINE THE CORRECT LOADINGS TO CONFORM WITH THE INTERNATIONAL BUILDING CODE AND THE LOCAL JURISDICTION AMENDMENTS.

THE BUILDING SUPPLIER SHALL PROVIDE ALL PERTINENT DATA REGARDING MEMBERS SIZES, ANCHORAGE DETAILS, BAY SPACING, LATERAL STABILITY AT COLUMN BASES & DIMENSIONS.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE SEAL OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW MEXICO.

THE BUILDING SHALL BE DESIGNED, ERECTED, AND FABRICATED IN ACCORDANCE WITH AISC, MBMA, AND AISI SPECIFICATIONS.

COORDINATE METAL BUILDING WITH OTHER DISCIPLINE DRAWINGS.

8. SPECIAL INSPECTION:

CERTIFIED INSPECTION (APPROVED BY THE BUILDING OFFICIAL OR THE ENGINEER OF RECORD) SHALL BE PROVIDED BY THE OWNER IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

FOUNDATION NOTES:

GENERAL:

A GEOTECHNICAL EVALUATION HAS NOT BEEN PERFORMED FOR THIS SITE. A GEOTECHNICAL EVALUATION IS ALWAYS RECOMMENDED PRIOR TO DESIGN TO VERIFY SUBSURFACE CONDITIONS AND TO PROVIDE RECOMMENDATIONS RELATED TO THE FOUNDATION DESIGN. BASE ON THE SURFACE CONDITIONS AND OTHER WORK PERFORMED IN THE GENERAL AREA WE ANTICIPATE THAT THE FOUNDATIONS CAN BE SUPPORTED ON NATIVE SANDSTONE OR SHALE BEDROCK. IF IT IS DETERMINED THAT THE EXISTING SUBSURFACE IS NOT THE ASSUMED SANDSTONE OR SHALE, A GEOTECHNICAL EVALUATION OF THE SITE SHOULD BE COMPLETED.

FIELD OBSERVATION AND TESTS:

THE OWNER SHALL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. CONTINUOUS ON-SITE OBSERVATION SHALL BE CONDUCTED BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK.

TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:

- ONE FIELD DENSITY TEST PER EACH 100 SY OF COMPACTED SUBGRADE PRIOR TO PLACING FILL AND/OR TURF. A MINIMUM OF 3 TESTS SHALL BE CONDUCTED.
- ONE FIELD DENSITY TEST PER EACH 300 CUBIC YARDS OF FILL PLACED OR EACH HORIZONTAL LIFT OF FILL, WHICHEVER IS GREATER.
- ONE ATSM D1557 MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, INCLUDING SUBGRADE, BASE COURSE AND FILL, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.

THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS TO THE OWNER.

CLEARING AND GRUBBING:

STRIP AND REMOVE ALL BRUSH, RUBBISH, STUMPS, STUMP ROOTS, GRASS, AND GRASS ROOTS FROM THE PROPOSED BUILDING AREA.

REMOVE ANY EXISTING STRUCTURES INCLUDING FOUNDATION ELEMENTS AND ASSOCIATED DEVELOPMENT SUCH AS UNDERGROUND UTILITIES, SEPTIC TANKS, ETC.

REMOVE ALL TOPSOIL AND ORGANIC MATERIAL FROM THE CONSTRUCTION AREA OR USE TO RE-VEGETATE EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS.

BEARING SURFACE PREPARATION:

A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL.

FOOTINGS SHALL BE EMBEDDED AT LEAST 2 FEET INTO THE NATIVE SANDSTONE. IF SANDSTONE IS NOT ENCOUNTERED AT THE BOTTOM-OF-FOOTING ELEVATION, THE FOOTING SHALL BE EXTENDED AS REQUIRED TO BE EMBEDDED INTO SANDSTONE, OR THE THE DESIGN SHALL BE REVISED TO REFLECT THE CONDITIONS ENCOUNTERED.

IF FILL IS REQUIRED TO LEVEL THE SITE, THE FILL SHALL BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN 10 INCHES IN THICKNESS, MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE AND COMPACT TO THE DENSITY SPECIFIED HEREIN.

FILL SHOULD EXTEND APPROXIMATELY 3 FEET BEYOND THE PERIMETER OF THE BUILDING.

RECOMMENDED FILL MATERIAL:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3"	100
NO. 4	50-100
NO. 200	50 MAX

MAXIMUM EXPANSIVE POTENTIAL (%): 1.5

*MEASURED ON A SAMPLE COMPACTED TO 95 PERCENT OF THE ASTM D1557 MAXIMUM DRY DENSITY AT ABOUT 3 PERCENT BELOW OPTIMUM WATER CONTENT. THE SAMPLE IS CONFINED UNDER A 144 PSF SURCHARGE AND SUBMERGED.

NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE INCORPORATED INTO THE FILL.

COMPACTION REQUIREMENTS:

SUBGRADE SOILS, FILL MATERIALS AND BASE COURSE SHALL BE COMPACTED AT NEAR OPTIMUM MOISTURE CONTENT.

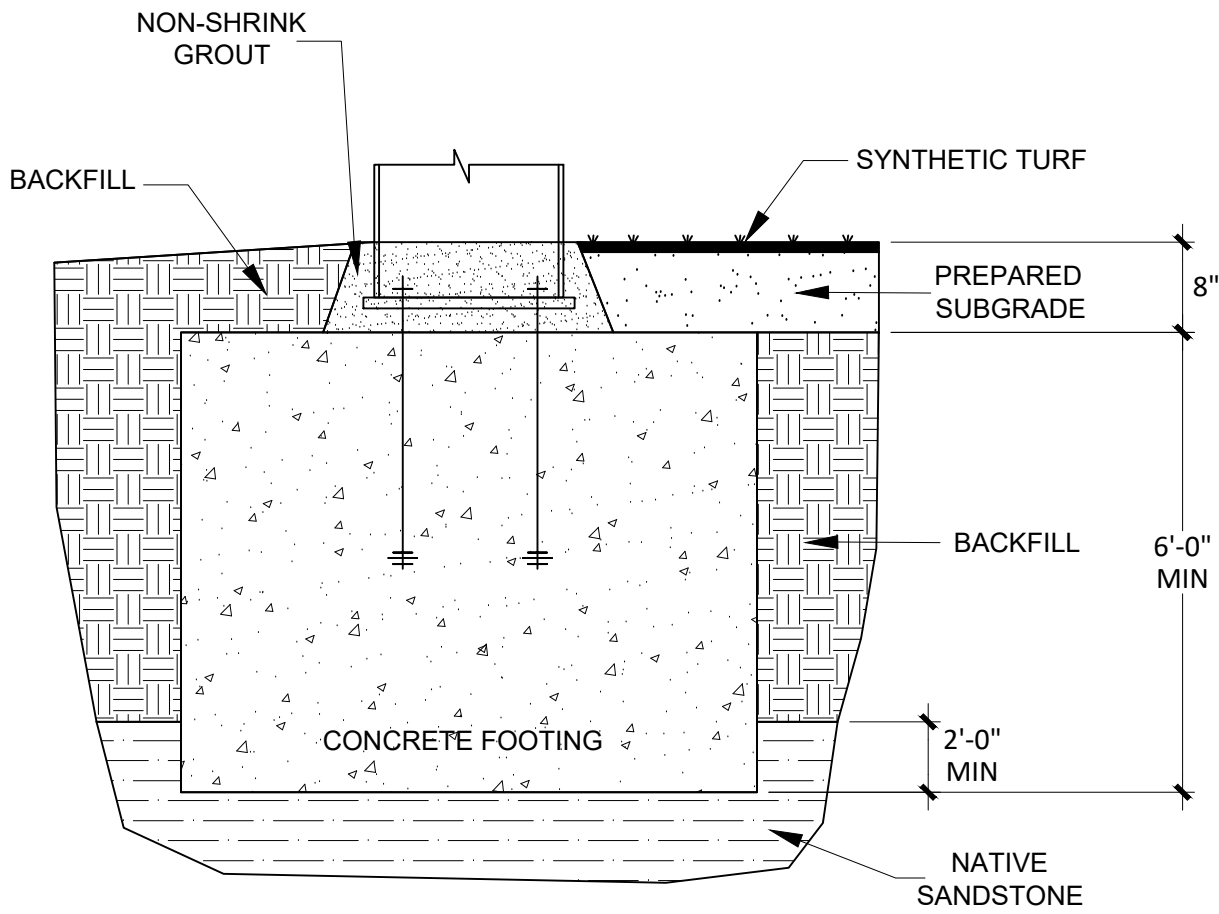
MATERIAL	MINIMUM PERCENT COMPACTION (ASTM D1557)
FILL MATERIAL IN THE BUILDING AREA	95
BASE COURSE (IF APPLICABLE)	95
SUBGRADE BELOW FILL OR BASE COURSE	95
NONSTRUCTURAL BACKFILL	90

FARMINGTON MUNICIPAL SCHOOLS

PVHS PAVILION - 100' x 100'

5700 COLLEGE BLVD, FARMINGTON, NEW MEXICO

SHEET INDEX	
SHEET	DESCRIPTION
1	COVER SHEET W/ TYP. EARTHWORK DETAIL, NOTES, TABLES & SPECIFICATIONS
2	FOUNDATION PLAN, SCHEDULES & DETAILS
3	FRAMING PLAN
4	ELEVATIONS



EARTHWORK NOTES:

- FOOTING SHALL BE AT LEAST 6'-0" THICK AND SHALL BEAR AT LEAST 2 FEET INTO THE NATIVE SANDSTONE.
- BACKFILL SHALL BE COMPACTED AT NEAR OPTIMUM MOISTURE TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AN ASTM D1557 PROCTOR.
- THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE TURF MANUFACTURER.
- THE TURF SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE TRUF MANUFACTURER.

TYPICAL EARTHWORK DETAIL

REQUIRED CONCRETE STRENGTH		
CONCRETE TYPE	REQUIRED F'C AT 28 DAYS	CONCRETE USE
NORMAL WEIGHT	4000 PSI	DRILLED PIERS, EXPOSED EXTERIOR FLATWORK
	3000 PSI	INTERIOR CONCRETE (FOOTINGS, TIE BEAMS, RETAINING WALLS, ETC.)
	3000 PSI	INTERIOR SLABS ON GRADE
	4000 PSI	CONCRETE OVER WOOD DECK

CONCRETE REINFORCING COVER		
TYPE OF USE	BAR SIZE/ELEMENT	COVER
CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL	ALL BARS	3"
CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER	GREATER THAN NO. 5	2"
	NO. 5 OR SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO SOIL OR WEATHER	COLUMNS, GIRDERS, AND BEAMS	1 1/2"
	STRUCTURAL SLABS, WALLS, AND JOISTS	3/4"

REQUIRED REINFORCING LAP LENGTH			
TYPE OF USE	BAR DIRECTION	BAR SIZE	MINIMUM LAP LENGTH
FOOTINGS/STEM WALLS	ALL BARS	ALL BARS	18 BAR DIAMETERS (18" MINIMUM)
RETAINING WALLS	VERTICAL BARS	NO. 6 AND SMALLER NO. 7 AND LARGER	57 DIAMETERS 72 DIAMETERS
	HORIZONTAL BARS	ALL BARS	30 BAR DIAMETERS (18" MINIMUM)
SLABS-ON-GRADE	ALL BARS	ALL BARS	30 BAR DIAMETERS (18" MINIMUM)

NO.	BY:	DATE:

PVHS PAVILION - 100' x 100'
5700 COLLEGE BLVD, FARMINGTON, NM

**COVER SHEET W/ TYP. EARTHWORK DETAIL,
NOTES, TABLES & SPECIFICATIONS**

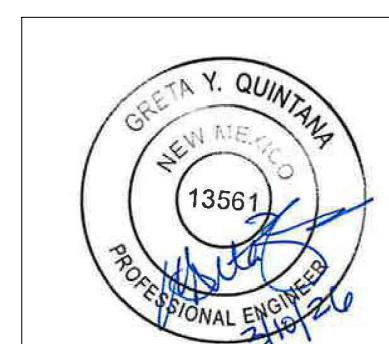
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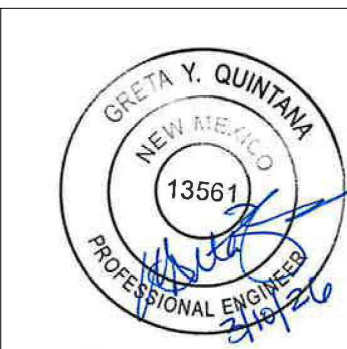
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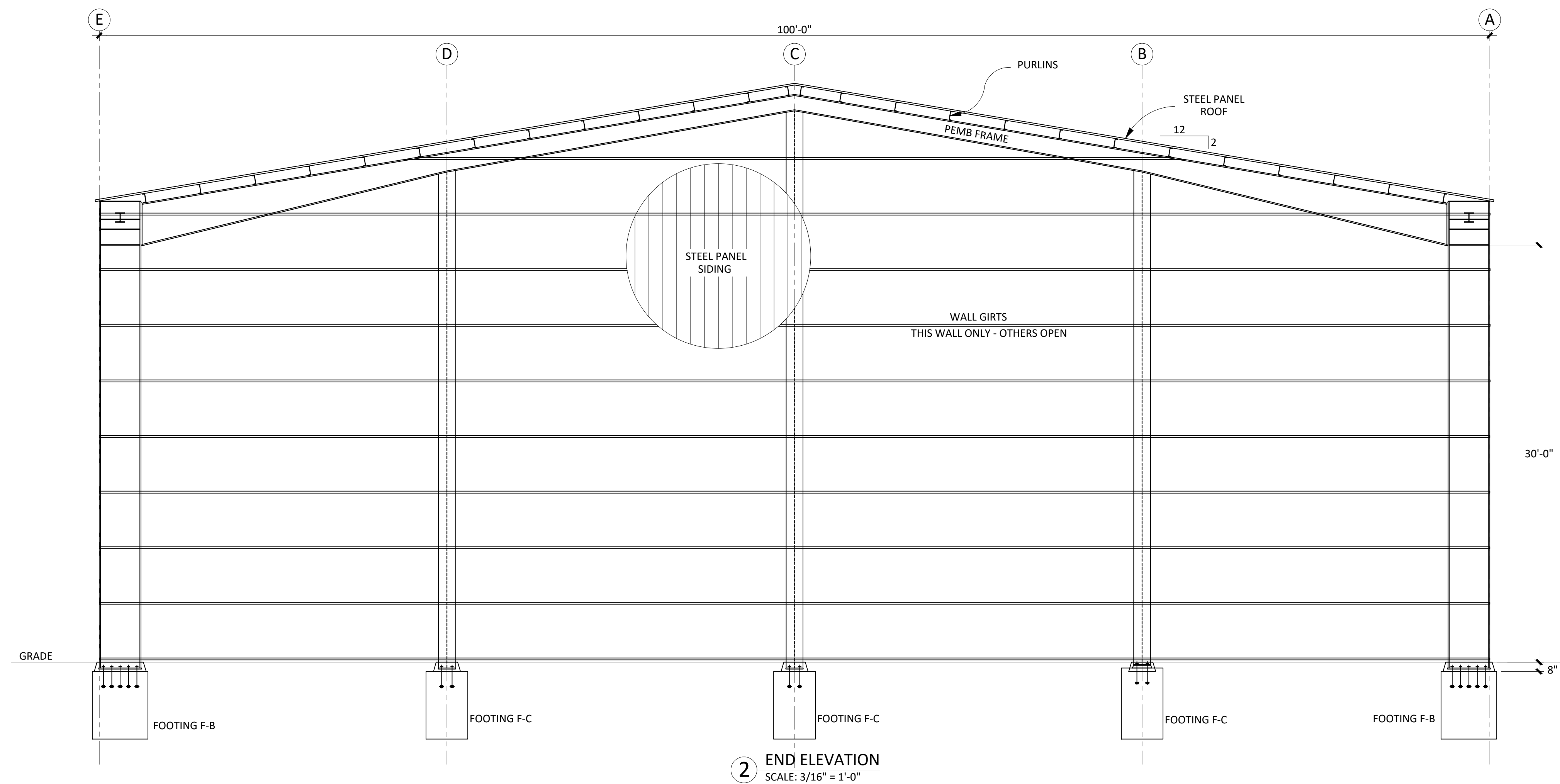
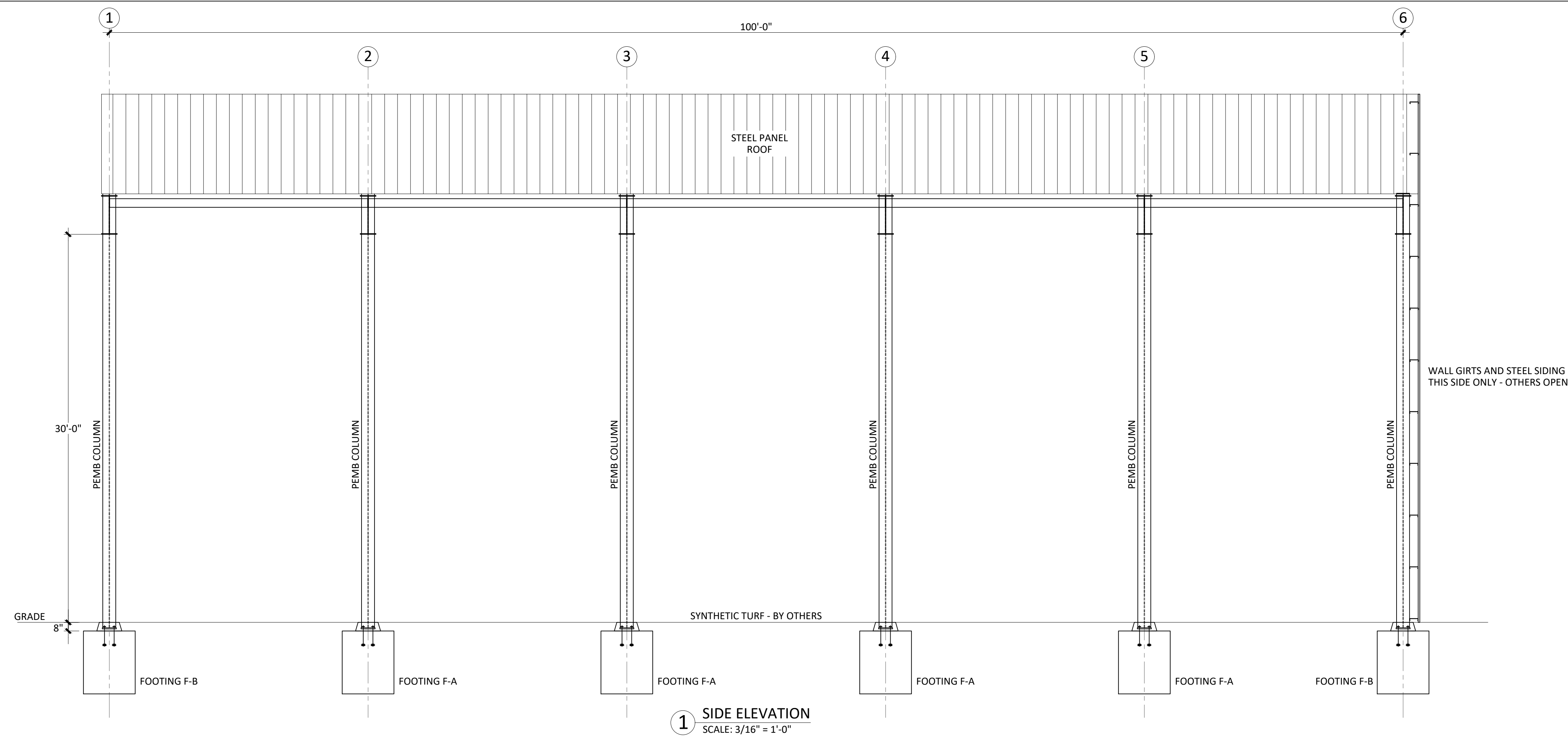
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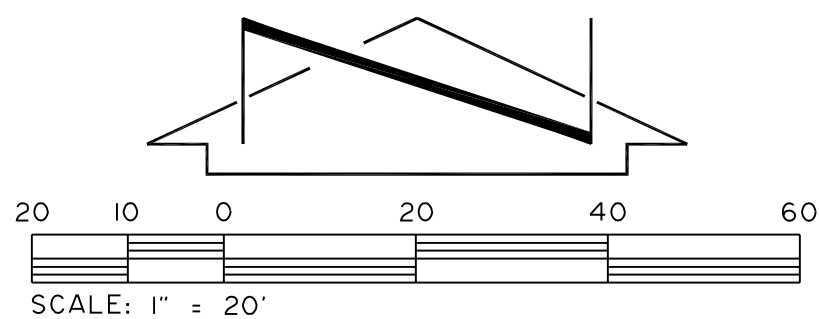
FARMINGTON MUNICIPAL SCHOOLS
3401 E. 30TH STREET
FARMINGTON, NM 87402











PROPOSED SITE PLAN
100'x100' PAVILLON

DATE: 03/03/2026
DRAWN BY: HWS
PROJ. 26114
SCALE: 1" = 20'
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SHEET

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CHENEY · WALTERS · ECHOLS
ENGINEERS · SURVEYORS

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