



JS CONSULTING & DESIGN  
STRUCTURAL ENGINEERING  
11703 DURANT RD  
RALEIGH, NC 27614  
P (919) 675-1680  
F (919) 324-3681

CERTIFICATE NUMBER: P-1513

Client:

New Horizon Buildings and Concrete  
3281 Sky Haven Rd  
Randleman, NC 27317

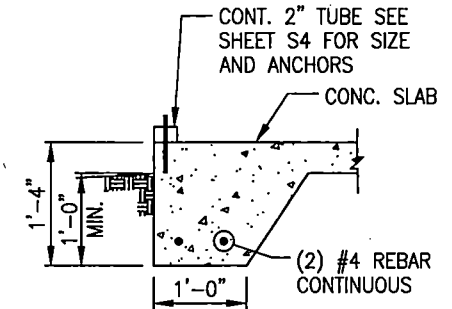
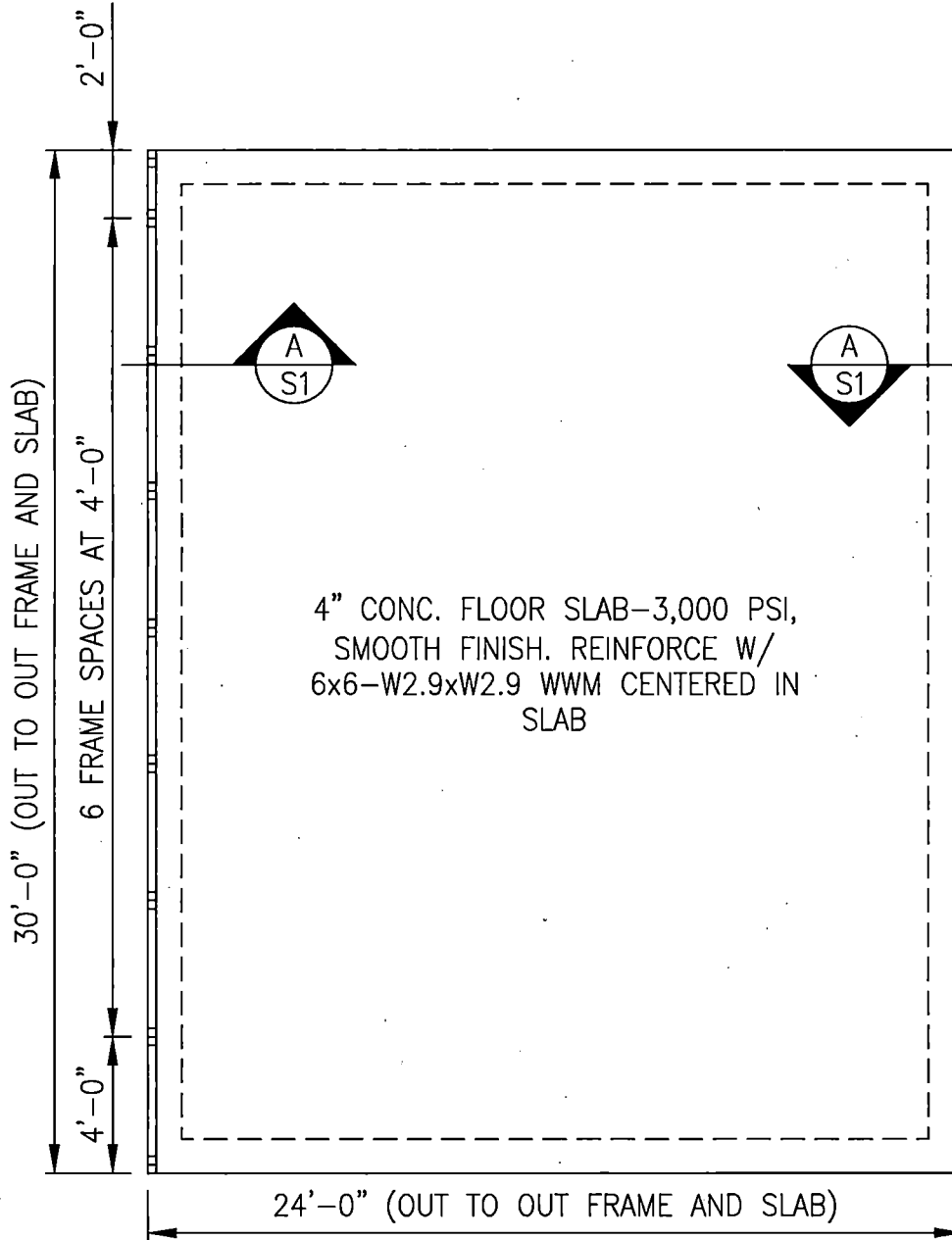
Project:

24'x31'x9'  
Chuck Dixon  
59 Grambridge Ln  
Fuquay-Varina, NC 27526

Job No:  
1801-679

Date:  
07/06/18

Sheet:  
S1



(A) SLAB TURN DOWN  
NOT TO SCALE

FOUNDATION PLAN  
NOT TO SCALE

DRAINAGE NOTE:  
OWNER TO PROVIDE POSITIVE  
DRAINAGE AWAY FROM BLDG. PAD.





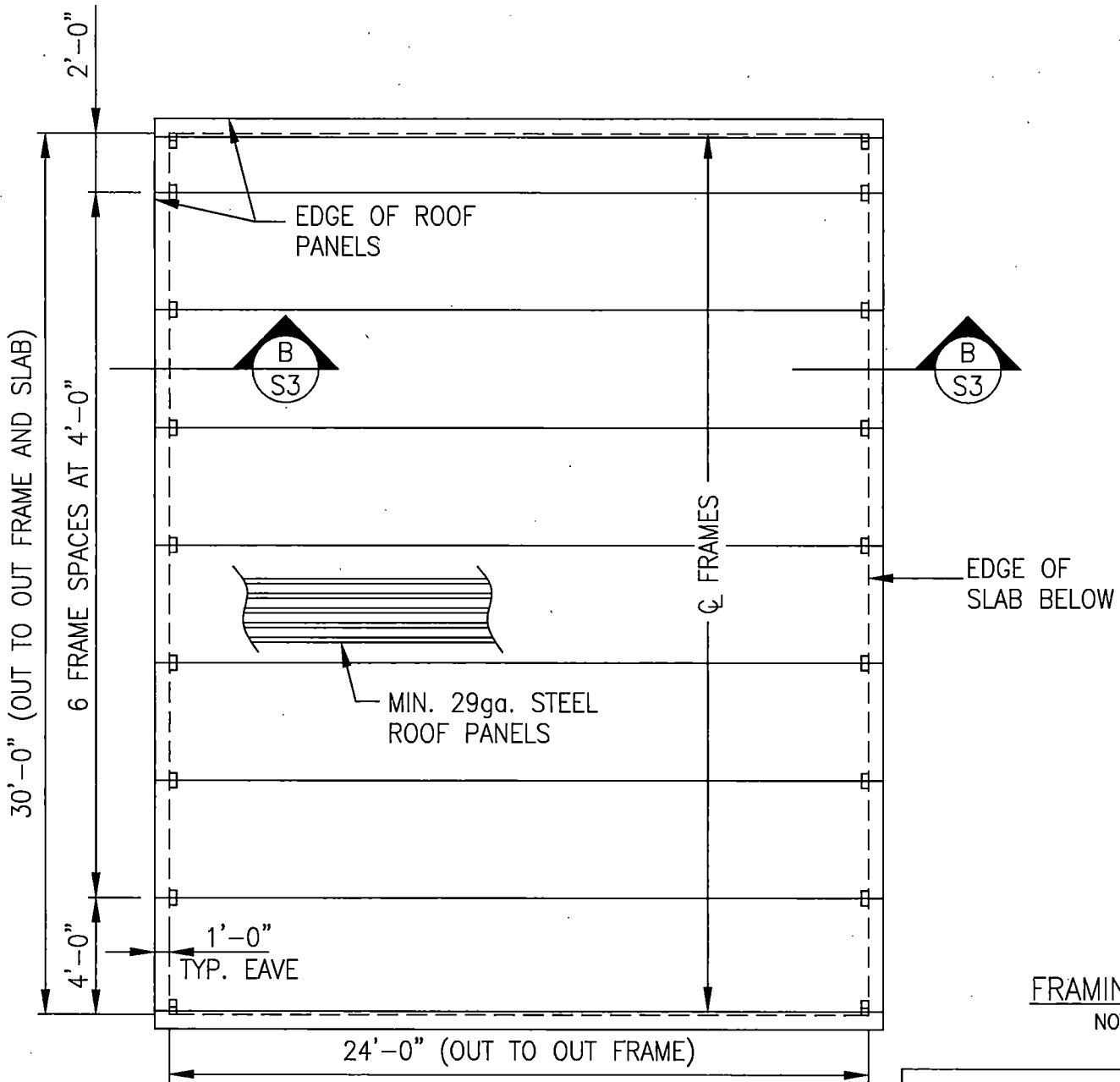
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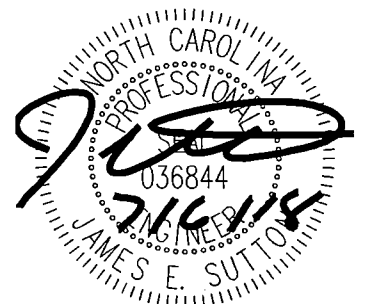
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FRAMING PLAN  
NOT TO SCALE





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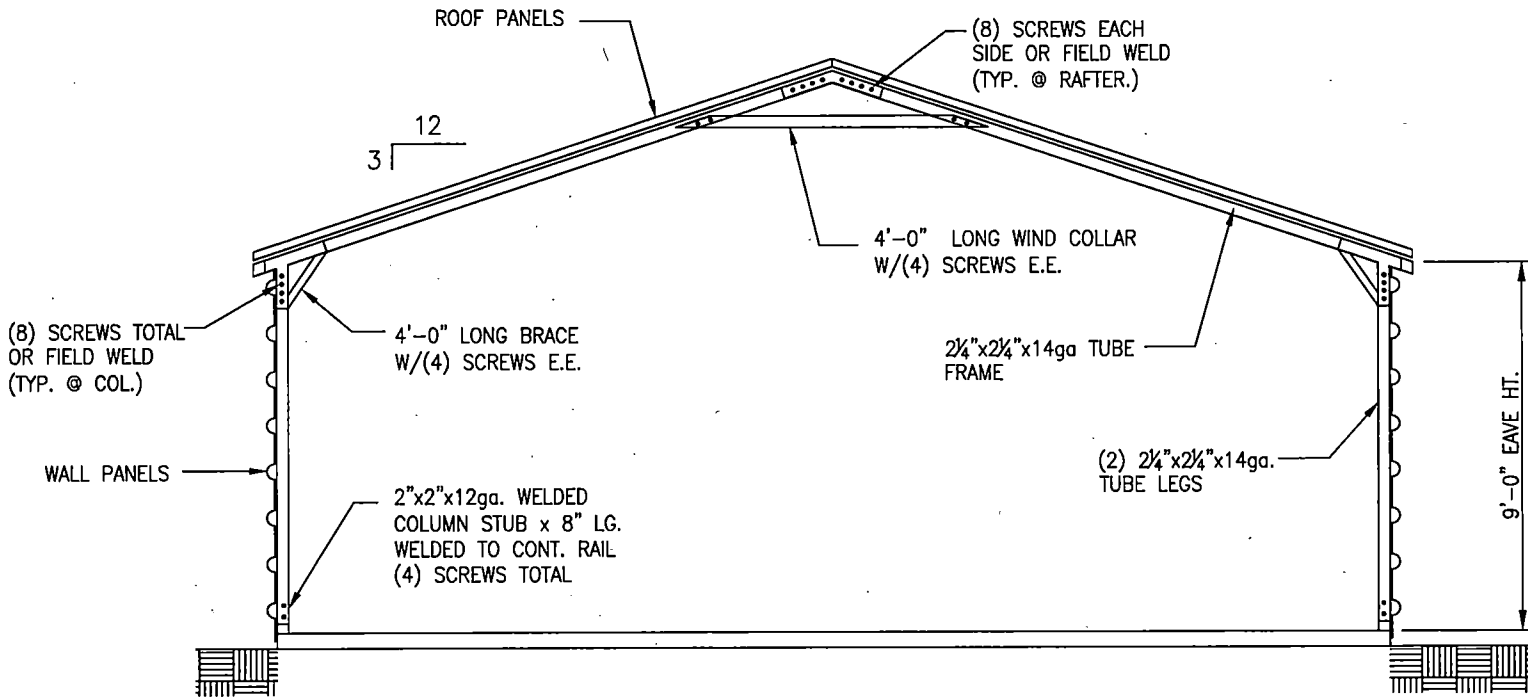
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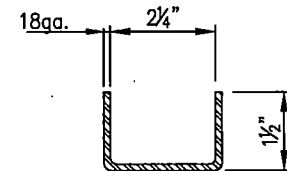
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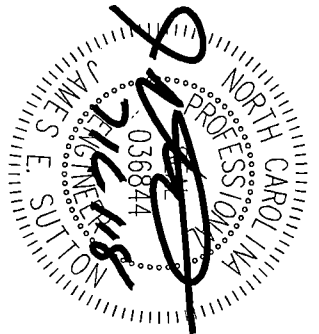


TYPICAL CROSS SECTION B-B  
 NOT TO SCALE



TYP. WIND COLLAR/BRACE  
 NOT TO SCALE

**GABLE END WALL FRAMING**  
 GABLE END WALLS SHALL BE FRAMED USING 2 1/4" 14ga SQUARE TUBES TO THE BOTTOM RAIL AND RAFTERS W/ L-CLIPS AND (2) SCREWS IN EACH LEG OF THE CLIP. ANY STUDS OVER 13'-0" IN LENGTH SHALL BE (2) 2 1/4" 14ga AND ATTACHED W/ (2) L-CLIPS AND (2) SCREWS IN EACH LEG OF THE CLIP.





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Client:

New Horizon Buildings and Concrete  
 3281 Sly Haven Rd  
 Randleman, NC 27317

Project:

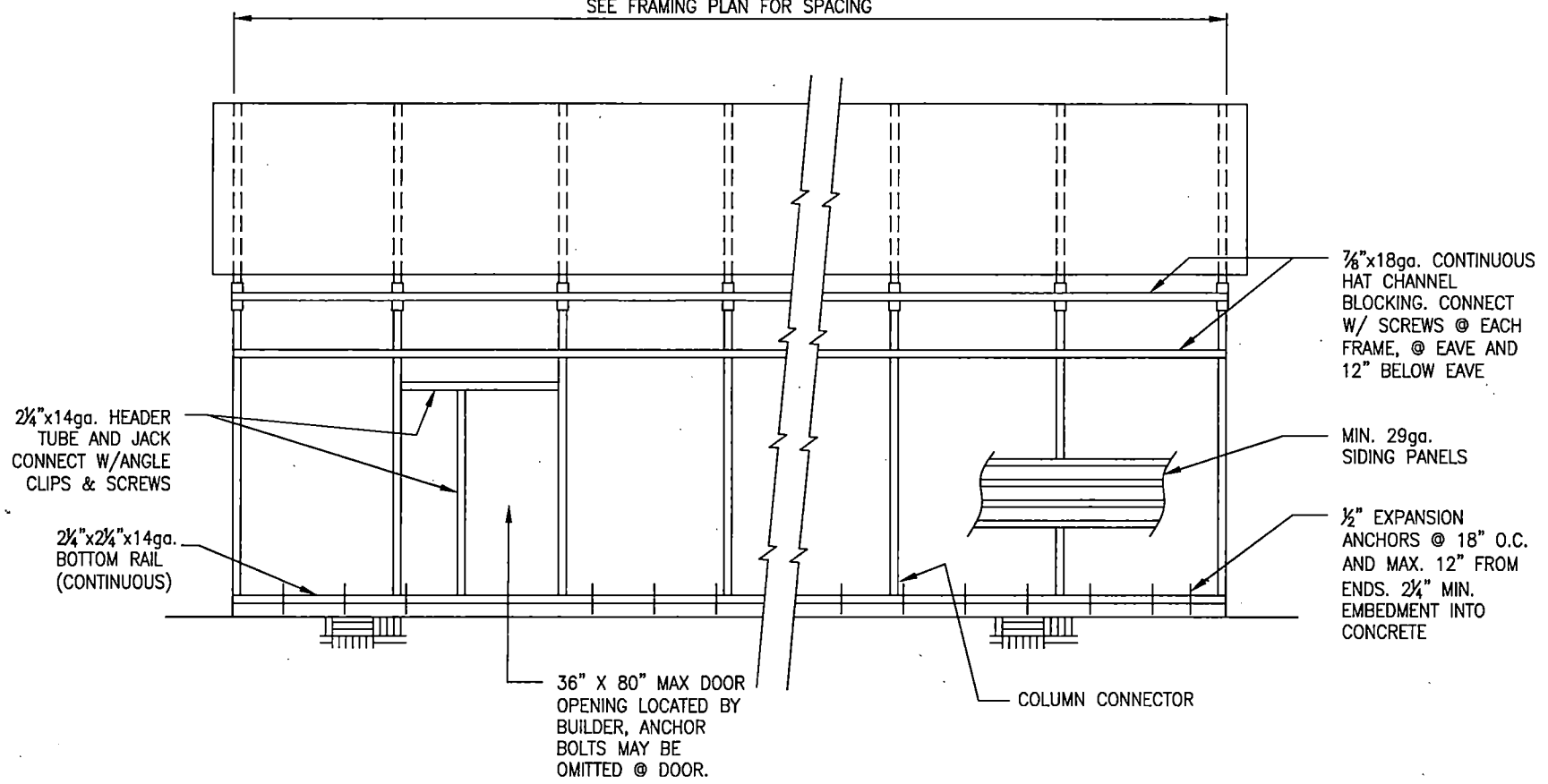
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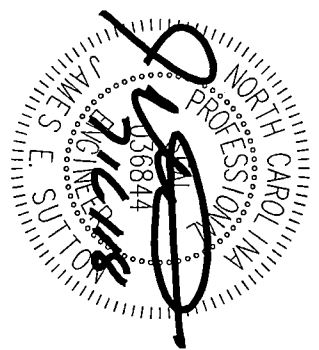
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SEE FRAMING PLAN FOR SPACING



SIDE ELEVATION  
 NOT TO SCALE

DOOR OPENING NOTE:  
 ROLL UP DOORS ONLY TO BE PLACED IN GABLE  
 END WALLS. EXACT LOCATION TO BE  
 DETERMINED BY BUILDER. MINIMUM HEADER SIZE  
 (2) 2 1/4" 14ga SQUARE TUBES ATTACHED  
 TOGETHER W/ CLIPS AND SCREWS @ 1'-0"  
 O.C. MINIMUM (1) 2 1/4" KING STUD EACH SIDE.  
 ATTACH USING ANGLE CLIPS AND SCREWS





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NOTES

DESIGN CRITERIA

1. BUILDING CODE.....2012 NORTH CAROLINA BUILDING CODE
2. IMPORTANCE FACTORS    WIND (lw)    0.87  
                                  SNOW (ls)    0.80  
                                  SEISMIC (lw)    1.0
3. GROUND SNOW LOAD.....15 PSF
4. ROOF LL.....5 PSF (NO FOOT TRAFFIC)
5. WIND
  - A) BASIC WIND SPEED (ASCE 7-05) .....100 MPH
  - B) WIND HAZARD EXPOSURE CATEGORY.....B
  - C) WIND BASE SHEARS (for MWFRS)     $V_x = 2.4 \text{ k}$      $V_y = 2.4 \text{ k}$  (PER FRAME)
6. SEISMIC
  - A) SEISMIC DESIGN CATEGORY A  
COMPLIANCE WITH SECTION 1616.4 ONLY?     YES     NO
  - B) SEISMIC DESIGN CATEGORY     B     C     D

SEISMIC USE GROUP    1

SPECTRAL RESPONSE ACCELERATION     $S_s$  24.2 %g     $S_1$  8.9 %g

SITE CLASSIFICATION D     FIELD TEST     PRESUMPTIVE     HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

BEARING WALL     DUAL W/SPECIAL MOMENT FRAME

BUILDING FRAME     DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL

MOMENT FRAME     INVERTED PENDULUM

SEISMIC BASE SHEAR     $V_x = 0.5 \text{ k}$      $V_y = 0.5 \text{ k}$  (PER FRAME)

ANALYSIS PROCEDURE  SIMPLIFIED     EQUIVALENT LATERAL FORCE     MODAL

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? NO

LATERAL DESIGN CONTROL: EARTHQUAKE     WIND

OTHER NOTES

1. PRESUMPTIVE SOIL PRESSURE = 2,000 PSF.
2. WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
3. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
4. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES OR SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN, AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER.
5. GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO THE STRUCTURE DURING CONSTRUCTION PROCEDURES ASSOCIATED WITH THIS PROJECT.
6. CONCRETE: CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI.
7. CONCRETE WORK SHALL COMPLY WITH ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301) AND APPLICABLE PROVISIONS OF ACI 318. KEEP A COPY OF ACI FIELD REFERENCE MANUAL (ACI-SP-15) WHICH INCLUDES ACI 301 AND OTHER ACI AND ASTM REFERENCES ON THE JOB.
8. FIBER MESH MAY BE SUBSTITUTED FOR WWM PER MANUFACTURER'S RECOMMENDATIONS.
9. ALL FOOTING FOUNDATIONS SHALL BE PLACED ON COMPETENT SOIL.
10. REINFORCING STEEL: ASTM A615, GRADE 60. PROVIDE 3" CLEARANCE TO EARTH SURFACES. LAP BARS 30 DIAMETERS.
11. ALL GALVANIZING SHALL BE PERFORMED AFTER FABRICATION, AND IN ACCORDANCE WITH ASTM A123 AND/OR A153.
12. THE MINIMUM YIELD STRENGTH OF THE STEEL USED IN THE LIGHT GAUGE METAL FRAMES SHALL BE 55,000 PSI, FOR RAW OR GALVANIZED TUBES.
13. THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER THREE SPANS, MINIMUM.
14. THE LIGHT GAUGE METAL FRAMES AND DECK SHALL BE OF THE GAUGE INDICATED ON THE PLAN/DETAILS.
15. ALL SCREWS FOR ASSEMBLING FRAMES SHALL BE #12 SIZE.
16. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
17. ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING.

