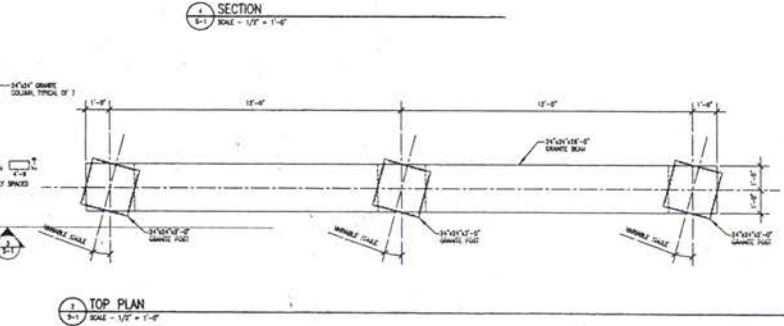
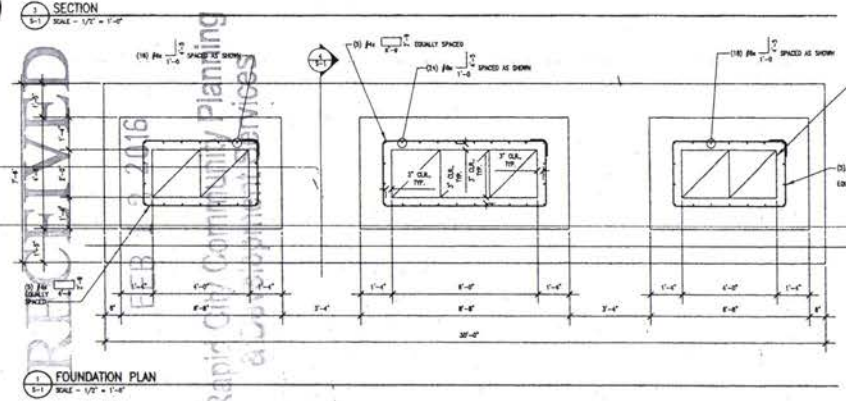


- GENERAL NOTES:**
- A. GENERAL
    1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2010 INTERNATIONAL BUILDING CODE.
    2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND.
    3. DESIGN LOADS:
      - A. LIVE LOAD - 5000 = 30 PSF ROOF (12 PSF GRADE)
      - B. WIND - 140 = 120 MPH WIND PER WIND CATEGORY C, BUILDING HEIGHT CATEGORY I, TERRAIN FACTOR EX = 1.0, EXPOSURE WIND LOAD = 0.02 PSF
      - C. SEISMIC - DESIGN CATEGORY B, BUILDING HEIGHT CATEGORY II,  $S_w = 0.141$ ,  $S_s = 0.02$  AND  $S_1 = 0.172$ ,  $S_2 = 0.09$ ,  $R = 0.5$ ,  $I_p = 1.0$ ,  $C_e = 1.0$ ,  $C_d = 1.0$ ,  $C_t = 1.0$ ,  $C_{v2}$  = 1.0,  $C_{v3}$  = 1.0,  $C_{v4}$  = 1.0,  $C_{v5}$  = 1.0,  $C_{v6}$  = 1.0,  $C_{v7}$  = 1.0,  $C_{v8}$  = 1.0,  $C_{v9}$  = 1.0,  $C_{v10}$  = 1.0,  $C_{v11}$  = 1.0,  $C_{v12}$  = 1.0,  $C_{v13}$  = 1.0,  $C_{v14}$  = 1.0,  $C_{v15}$  = 1.0,  $C_{v16}$  = 1.0,  $C_{v17}$  = 1.0,  $C_{v18}$  = 1.0,  $C_{v19}$  = 1.0,  $C_{v20}$  = 1.0,  $C_{v21}$  = 1.0,  $C_{v22}$  = 1.0,  $C_{v23}$  = 1.0,  $C_{v24}$  = 1.0,  $C_{v25}$  = 1.0,  $C_{v26}$  = 1.0,  $C_{v27}$  = 1.0,  $C_{v28}$  = 1.0,  $C_{v29}$  = 1.0,  $C_{v30}$  = 1.0,  $C_{v31}$  = 1.0,  $C_{v32}$  = 1.0,  $C_{v33}$  = 1.0,  $C_{v34}$  = 1.0,  $C_{v35}$  = 1.0,  $C_{v36}$  = 1.0,  $C_{v37}$  = 1.0,  $C_{v38}$  = 1.0,  $C_{v39}$  = 1.0,  $C_{v40}$  = 1.0,  $C_{v41}$  = 1.0,  $C_{v42}$  = 1.0,  $C_{v43}$  = 1.0,  $C_{v44}$  = 1.0,  $C_{v45}$  = 1.0,  $C_{v46}$  = 1.0,  $C_{v47}$  = 1.0,  $C_{v48}$  = 1.0,  $C_{v49}$  = 1.0,  $C_{v50}$  = 1.0,  $C_{v51}$  = 1.0,  $C_{v52}$  = 1.0,  $C_{v53}$  = 1.0,  $C_{v54}$  = 1.0,  $C_{v55}$  = 1.0,  $C_{v56}$  = 1.0,  $C_{v57}$  = 1.0,  $C_{v58}$  = 1.0,  $C_{v59}$  = 1.0,  $C_{v60}$  = 1.0,  $C_{v61}$  = 1.0,  $C_{v62}$  = 1.0,  $C_{v63}$  = 1.0,  $C_{v64}$  = 1.0,  $C_{v65}$  = 1.0,  $C_{v66}$  = 1.0,  $C_{v67}$  = 1.0,  $C_{v68}$  = 1.0,  $C_{v69}$  = 1.0,  $C_{v70}$  = 1.0,  $C_{v71}$  = 1.0,  $C_{v72}$  = 1.0,  $C_{v73}$  = 1.0,  $C_{v74}$  = 1.0,  $C_{v75}$  = 1.0,  $C_{v76}$  = 1.0,  $C_{v77}$  = 1.0,  $C_{v78}$  = 1.0,  $C_{v79}$  = 1.0,  $C_{v80}$  = 1.0,  $C_{v81}$  = 1.0,  $C_{v82}$  = 1.0,  $C_{v83}$  = 1.0,  $C_{v84}$  = 1.0,  $C_{v85}$  = 1.0,  $C_{v86}$  = 1.0,  $C_{v87}$  = 1.0,  $C_{v88}$  = 1.0,  $C_{v89}$  = 1.0,  $C_{v90}$  = 1.0,  $C_{v91}$  = 1.0,  $C_{v92}$  = 1.0,  $C_{v93}$  = 1.0,  $C_{v94}$  = 1.0,  $C_{v95}$  = 1.0,  $C_{v96}$  = 1.0,  $C_{v97}$  = 1.0,  $C_{v98}$  = 1.0,  $C_{v99}$  = 1.0,  $C_{v100}$  = 1.0
    4. FOUNDATION DESIGN CRITERIA PER SOILS REPORT: AMERICAN GEOTECHNICAL ENGINEERING, INC. (LTD) ACT PROJECT NO. 17-2016 DATE ISSUED: NOVEMBER 20, 2015
    5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND SHALL AFTER THE STRUCTURE IS COMPLETED AS A FULL COMPLETION SHALL BE RESPONSIBLE TO STABILIZE EXISTING FOUNDATIONS AND EXISTING STRUCTURES IN THE VICINITY OF THE STRUCTURE. EXISTING FOUNDATIONS SHALL BE REINFORCED AS NECESSARY TO MAINTAIN EXISTING FOUNDATIONS AND EXISTING STRUCTURES IN THE VICINITY OF THE STRUCTURE.
    6. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY OWNER PRIOR TO FOUNDATION OR CONSTRUCTION.
  - B. EXCAVATION
    1. ARCHITECT/OWNER ASSUMES NO RESPONSIBILITY FOR ACCURACY OF TEST BORINGS.
    2. CONTRACTOR SHALL BE AWARE OF AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, TANKS, ETC.
    3. THE CARE SHALL BE EXERCISED DURING EXCAVATION SUCH THAT EXISTING UTILITIES ARE NOT DAMAGED.
    4. ANY BRICKS OR DAMAGED UTILITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
  - C. FOUNDATIONS
    1. ALLOWABLE BEARING CAPACITY = 2500 PSF ON APPROXIMATE BOREHOLE OR COMPACTED GRANULAR (CHECKED) FILL OVER APPROXIMATE BOREHOLE.
  - D. MATERIALS
    1. CONCRETE - ASTM C1191 OR HIGHER GRADE 3
    2. REINFORCING STEEL - ASTM A631 OR HIGHER GRADE 3
    3. TENSILE RODS - ASTM A193 OR HIGHER GRADE 3
    4. ALL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) AND THE AMERICAN WELDING SOCIETY (AWS) STANDARD FOR TENSILE WELDING METALS AND FILLS FOR FUSION WELDING OF STEEL AND STEEL ALLOYS.
  - E. CONCRETE AND REINFORCING
    1. UNLESS OTHERWISE SPECIFIED, ALL MATERIAL OF CONCRETE PACKING, REINFORCING CODE REINFORCING FOR REINFORCED CONCRETE (ACI 318-11), SHALL BE OBTAINED FROM A QUALIFIED SUPPLIER.
    2. CONCRETE PROPERTIES -
 

CONCRETE PROPERTIES	28 DAY		MIN. COMPRESSIVE		MIN. TENSILE	
	STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)	STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)	STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)
CONCRETE PROPERTIES	4000	4.0E+6	4000	4.0E+6	4000	4.0E+6
    3. CONCRETE SHALL CONTAIN 20 LB/CY TO 1/2 IN. SCHEDULING POLYPROPYLENE FIBERS.
    4. REINFORCING STEEL PROPERTIES -
 

REINFORCING STEEL PROPERTIES	MIN. TENSILE		MIN. YIELD		MIN. ELONGATION	
	STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)	STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)	ELONGATION (%)	ELONGATION (%)
REINFORCING STEEL PROPERTIES	60000	29.0E+6	60000	29.0E+6	10	10
    5. ALL SEAM AND/OR WALL OPENINGS SHALL BE REINFORCED WITH 2" x 2" W/40 EACH SIDE AND COVERED 2" MIN. BEYOND THE SPONGING.
    6. ALL PLUMBING, HEATING AND ELECTRIC OPENINGS MUST SHOW UP ON THE PLANS SHALL BE SLEEVED THROUGH SPACING OF 3 SLEEVES (PRACTICE OR CONTROL).
    7. SPICES IN REINFORCING SHALL BE ACCORDING TO LAP SCHEDULE (SEE SPEC).
    8. USE TYPE II PORTLAND CEMENT FOR ALL CONCRETE WORK.
    9. REINFORCING STEEL WIRE CHAINS SHALL BE USED IN FINISH SLAB UNDER AND SPACING REINFORCING TOP PLACEMENT OF REINFORCING STEEL IN CONCRETE. (SEE SPEC. ETC. WILL BE ALLOWED).
    10. CURS FORMING OF CONCRETE ELEMENTS IS NOT PERMITTED UNLESS SPECIFICALLY CALLED OUT ON DRAWING.
    11. FINAL CONCRETE WE DECIDE TO PROVIDE FOR EXTENDED CURETIME (IT WILL BE BY OWNER AS APPROVED BY OWNER).
  - F. GRAVEL
    1. GRAVEL PROPERTIES -
 

GRAVEL PROPERTIES	MINIMUM AVERAGE		MINIMUM AVERAGE		MINIMUM AVERAGE	
	COMPRESSION STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)	COMPRESSION STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)	COMPRESSION STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)
GRAVEL PROPERTIES	1500	1.0E+6	1500	1.0E+6	1500	1.0E+6



NOTE:  
 1. PLACE AND TEMPORARILY BRACE CONCRETE COLUMNS PRIOR TO PLACING WALL CONCRETE. PROVIDE LINE BRACING WITH NON-SHRENE SLOTT AS REQUIRED.  
 2. SEE ALL DETAILS WITH OWNER.

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BAILEY ASSOCIATES, INC.  
 RAPID CITY, SOUTH DAKOTA  
 PROJECT NO. 15-064 DRAWING NO. S-1  
 DATE: 12-01-15  
 SCALE: AS SHOWN  
 If this drawing is not 30" x 42" it is a reduced print.

