

**GENERAL NOTES:**

1. TYPICAL STRUCTURAL DETAILS AND NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. EXAMINE SITE AND DRAWINGS TO DETERMINE LOCATIONS AND DIMENSIONS OF UTILITIES, AND SITE IMPROVEMENTS.
3. THE STRUCTURAL DESIGN IS BASED ONLY ON THE STRUCTURE IN ITS COMPLETED STATE. CONTRACTORS AND THEIR SUBCONTRACTORS SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO WITHSTAND ALL HORIZONTAL AND VERTICAL LOADING THAT MAY BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS PRIOR TO THE COMPLETION OF THE STRUCTURE.
4. WRITTEN DISTANCES & ELEVATIONS SHALL GOVERN OVER SCALED DISTANCES & ELEVATIONS.
5. SCALES SHOWN ARE BASED ON FULL SIZE (22X34) DRAWINGS. REDUCE SCALES BY 2 FOR 11X17 DRAWINGS.

**MATERIAL NOTES:**

<b>REINFORCED CONCRETE:</b>	
CONCRETE:	4000 PSI @ 28 DAYS
REINFORCEMENT BARS:	ASTM A615, GRADE 60
DEFORMED BARS	

**DESIGN CRITERIA & LOADING**

1. CODE: 2015 INTERNATIONAL BUILDING CODE (IBC) and 2015 IOWA BUILDING CODE AMENDMENTS.

**DESIGN LOADING**

<b>DEAD LOADS (D)</b>	CALCULATED
<b>MATERIALS</b>	

**LIVE LOADS (L)**

<b>FLOOR</b>	
<b>ROOF LIVE LOADS (L/r)</b>	
<b>UNIFORM</b>	20 PSF

**SNOW LOADS (S)**

P <sub>g</sub>	GROUND SNOW LOAD	39 PSF
P <sub>f</sub>	FLAT-ROOF SNOW LOAD	33.1 PSF
C <sub>e</sub>	SNOW EXPOSURE FACTOR	1.0
I <sub>s</sub>	SNOW LOAD IMPORTANCE FACTOR	1.1
C <sub>t</sub>	THERMAL FACTOR	1.1
C <sub>s</sub>	SLOPE FACTOR	1.0

**WIND LOAD (W)**

V	BASIC WIND SPEED	101 MPH (3 SECOND GUST)
V <sub>asd</sub>	ASD WIND SPEED (V*(0.6))	84 MPH
RISK (OCCUPANCY) CATEGORY	II	
EXPOSURE CATEGORY	C	
G <sub>Cpi</sub>	INTERNAL PRESSURE COEFFICIENT	+/- 0.18

**FOUNDATION AND SOIL NOTES:**

1. PROVIDE A MINIMUM OF 5'-0" OF SOIL COVER AT ALL UNHEATED STRUCTURE FOOTINGS.
2. PROTECT FOUNDATION SOILS FROM FREEZING DURING CONSTRUCTION.
3. PLACE FILL AND BACKFILL AND COMPACT TO FOLLOWING MAXIMUM STANDARD PROCTOR DENSITIES UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS:
 

LOCATION	DENSITY
FILL BELOW FOOTINGS	100%
FILL BELOW SLABS ON GRADE	98%
PIPE AND STRUCTURE EXCAVATIONS	95%
GREEN SPACES	90%
4. ASSUMED SOIL BEARING PRESSURES:  
ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF

**EXCAVATION NOTES:**

1. TEMPORARY GROUND CONTROL IS BY CONTRACTOR DESIGN.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY SHEETING AND BRACING NECESSARY TO PROTECT PERSONNEL AND ADJACENT PROPERTY FROM INJURY OR DAMAGE DURING CONSTRUCTION OPERATION.
3. EXCAVATIONS OR TRENCHING WITHIN CLOSE PROXIMITY TO UNDERGROUND STRUCTURES, UTILITIES, OR UTILITY POLES WILL REQUIRE PROTECTION AND SUPPORT TO PREVENT DAMAGE OR INTERRUPTION TO SERVICE. THE COST TO PROVIDE THIS PROTECTION SHALL BE INCLUDED IN THE CONTRACTOR'S TOTAL BASE BID PRICE.

**CONCRETE NOTES:**

1. LAP SPLICES AND 90 DEGREE END HOOKS SHALL BE AS SHOWN BELOW UNLESS NOTED. WHEN BARS OF TWO DIFFERENT SIZES ARE SPLICED, THE LONGER LAP LENGTH SHALL APPLY.

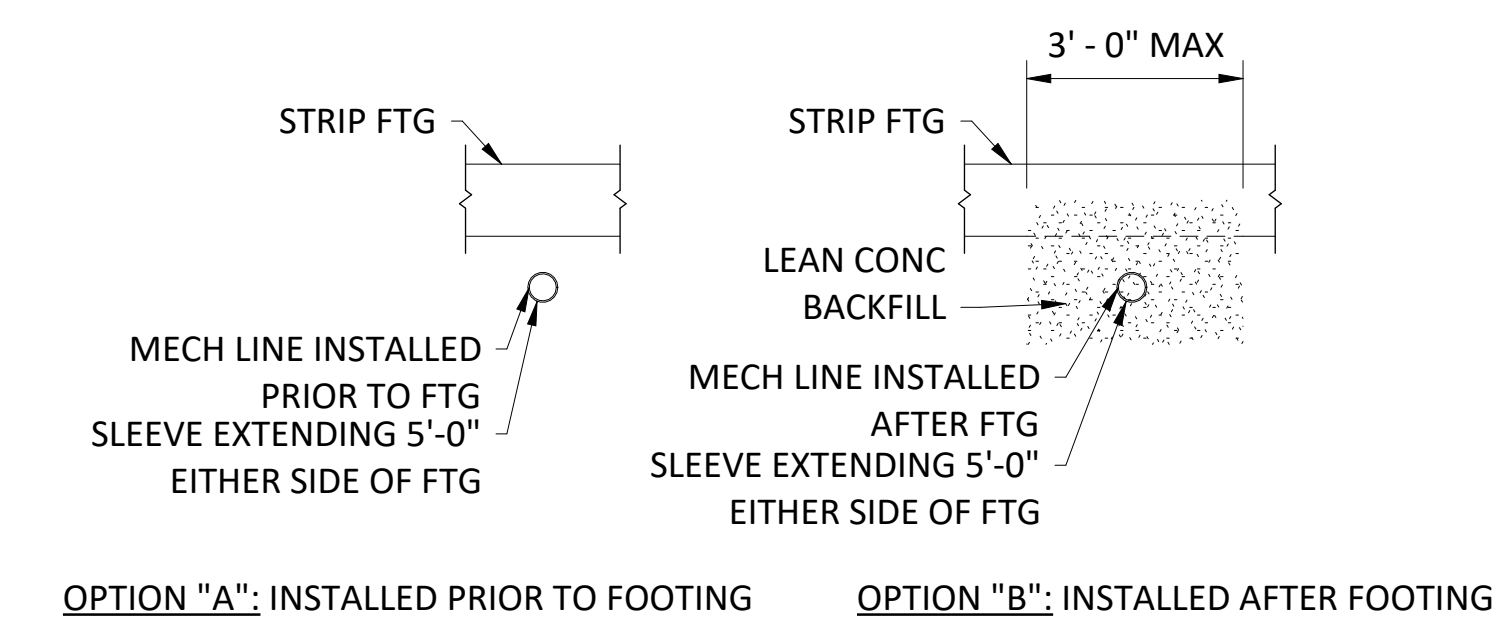
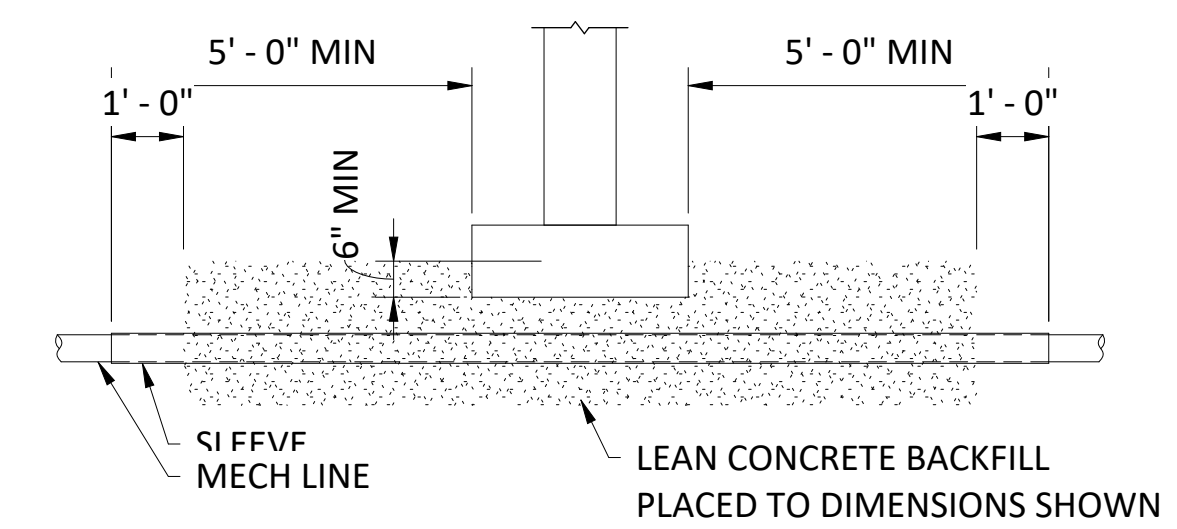
F'C=4000 PSI	SLAB, WALL		90 DEGREE HOOK
BAR SIZE	BAR LAP	TOP BAR	
#4	25 IN.	32 IN.	8 IN.
#5	31 IN.	40 IN.	10 IN.

- \*TOP BAR LAP SPLICES ARE HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 IN. OF CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.
2. REINFORCING BARS SHALL HAVE THE FOLLOWING CONC. COVER UNLESS NOTED OTHERWISE.
 

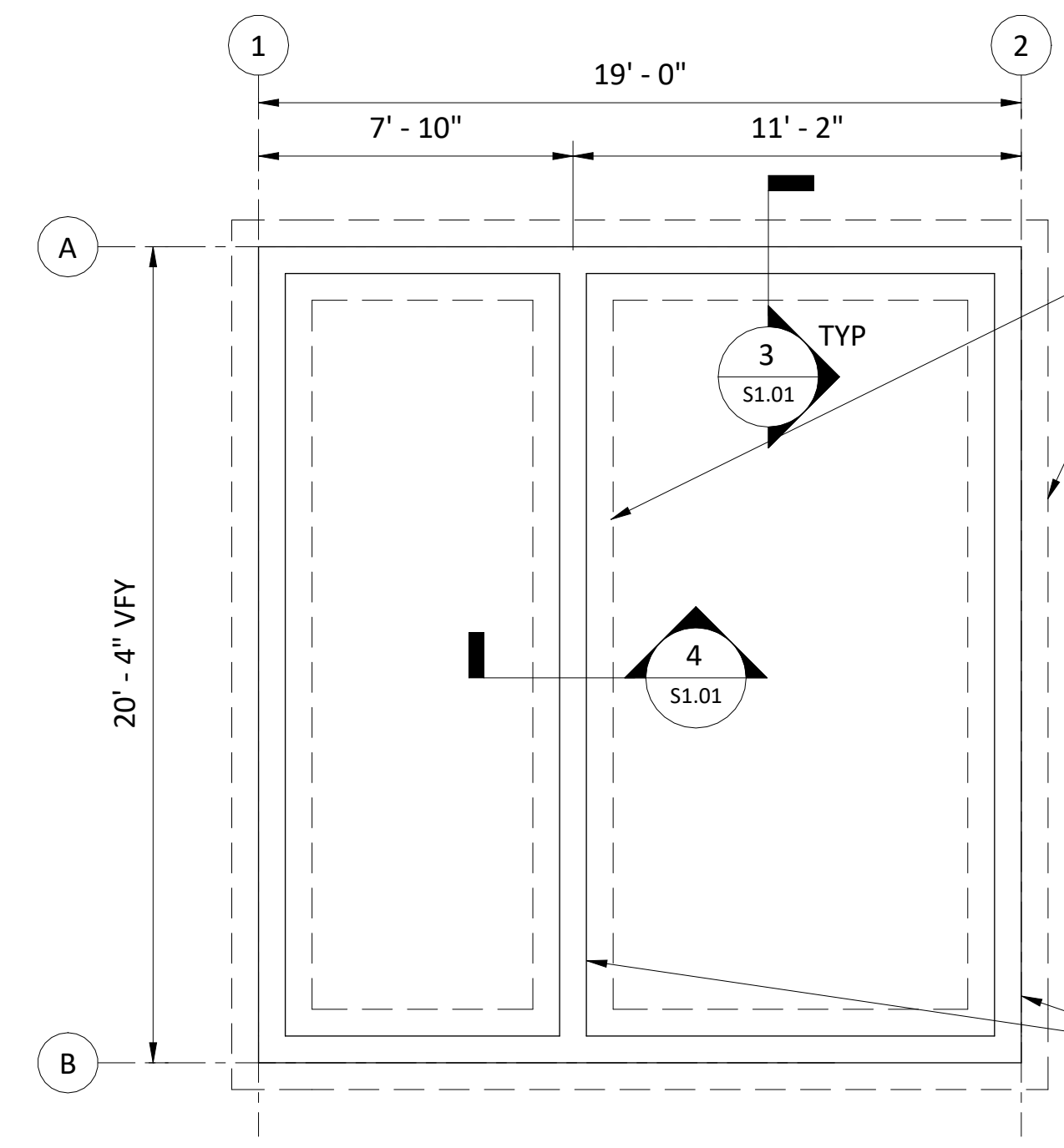
FOOTINGS AND OTHER UNFORMED SURFACES	3"
CONCRETE EXPOSED TO EARTH, WEATHER OR FLUIDS	
#5 BARS OR SMALLER	1-1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS & JOISTS	3/4"
  3. CONCRETE SHALL BE PLACED WITHOUT CONSTRUCTION JOINTS EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.
  4. CAST-IN-PLACE CONCRETE SHALL NOT BE PLACED IN STANDING WATER, ON FROZEN SOIL OR ON FROZEN CONCRETE.
  5. FOR LOCATIONS AND DIMENSIONS OF SLEEVES, AND OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE CIVIL/MECHANICAL, PLUMBING, HVAC AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE REQUIREMENTS FOR AND LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
  6. BEVEL ALL EXPOSED CORNERS OF CONCRETE 3/4" x 3/4".

**FOUNDATION PLAN NOTES:**

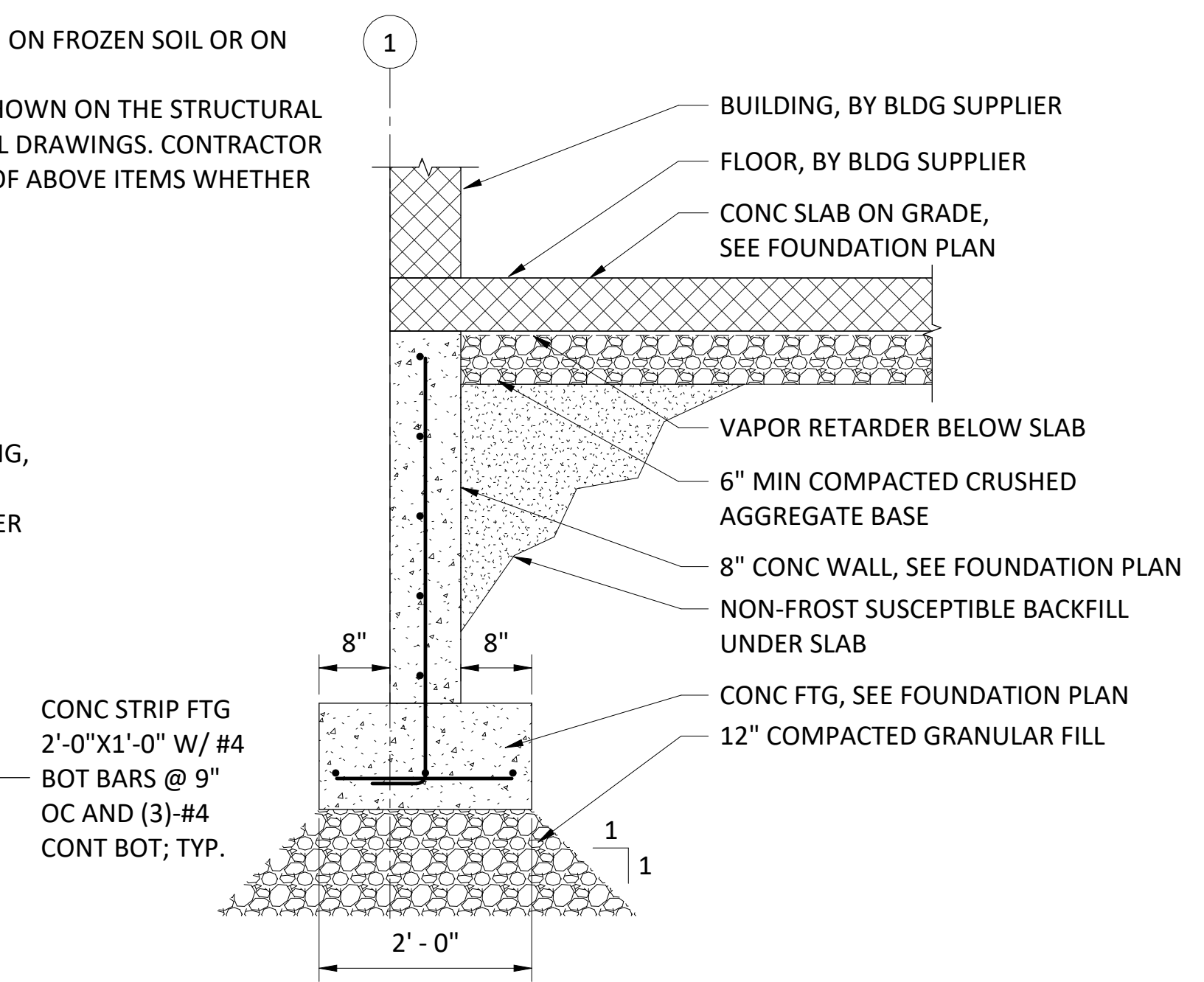
1. REFERENCE ELEVATION 100'-0" = EXISTING GRADE
2. FOOTINGS ARE CENTERED ON WALLS, U.N.O.
3. FOR PIPE BELOW FOOTING, SEE DTL 2/S1.01.
4. FOR CONTRACTORS OPTION OF MECH LINES BENEATH FOOTING, SEE DTL 5/S1.02.
5. CONNECTION OF BUILDING TO FOUNDATION BY BLDG SUPPLIER



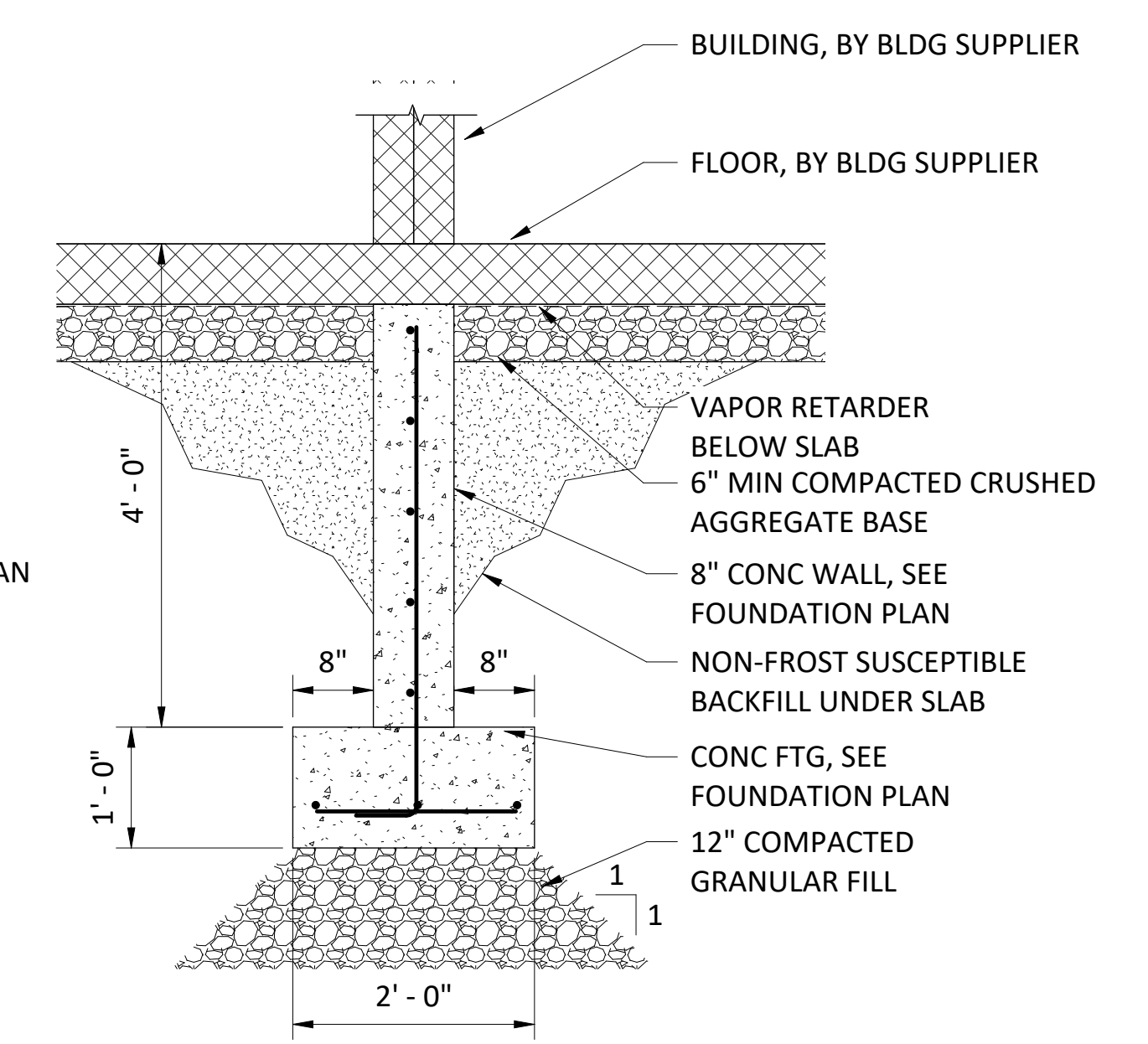
2 DETAIL - CONTRACTORS OPTIONS AT MECH LINES BENEATH FTG  
3/8" = 1'-0"



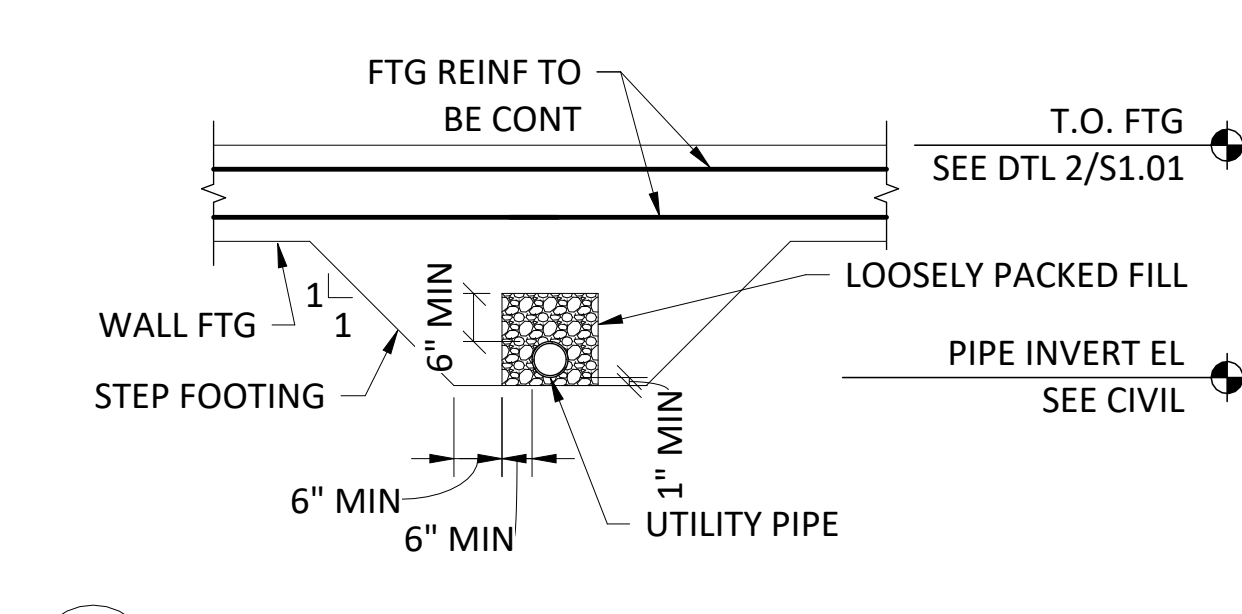
1 PLAN - FOUNDATION  
1/4" = 1'-0"



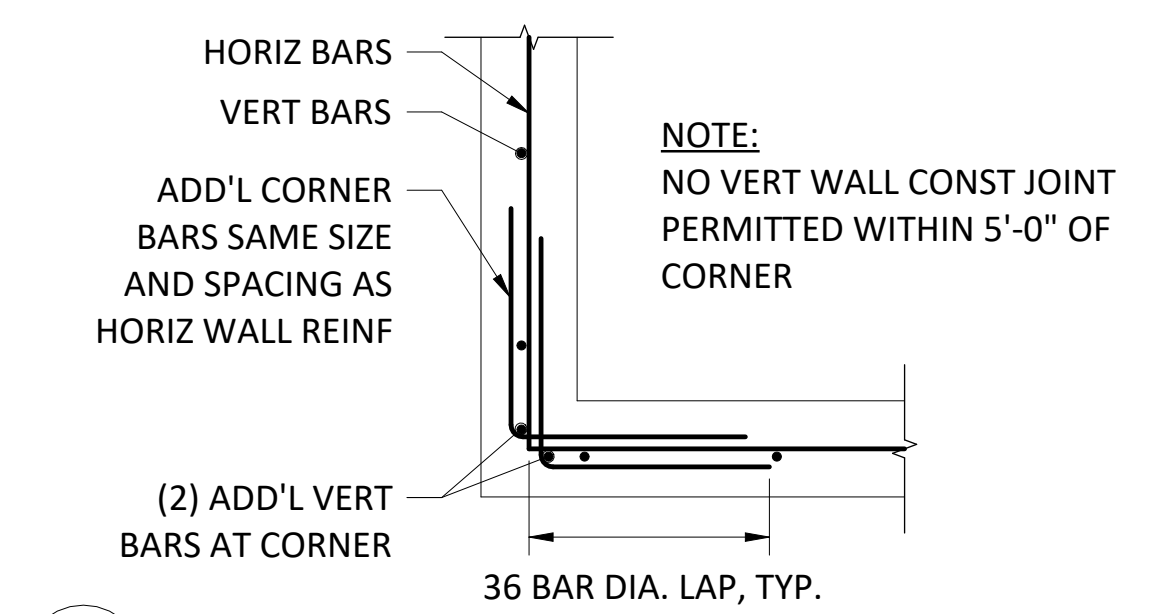
3 DETAIL - TYPICAL EXTERIOR FOUNDATION  
3/4" = 1'-0"



4 DETAIL - TYPICAL INTERIOR FOUNDATION  
3/4" = 1'-0"



5 DETAIL - STEPPED FOOTING FOR PIPE BELOW  
1/2" = 1'-0"



6 DETAIL - TYPICAL FOUNDATION WALL CORNER  
3/4" = 1'-0"

Preliminary  
Not for Const.

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JWE			
JWE			
JCG			
CLIENT PROJ. NO.			

CLAYTON COUNTY CONSERVATION  
OSBORNE PARK IMPROVEMENTS  
STRUCTURAL NOTES AND FOUNDATION PLAN

SHEET  
S1.01

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CLAYTON COUNTY CONSERVATION

OSBOURN PARK IMPROVEMENTS

STRUCTURAL STRUCTURAL DETAILS

SHEET  
S1.02