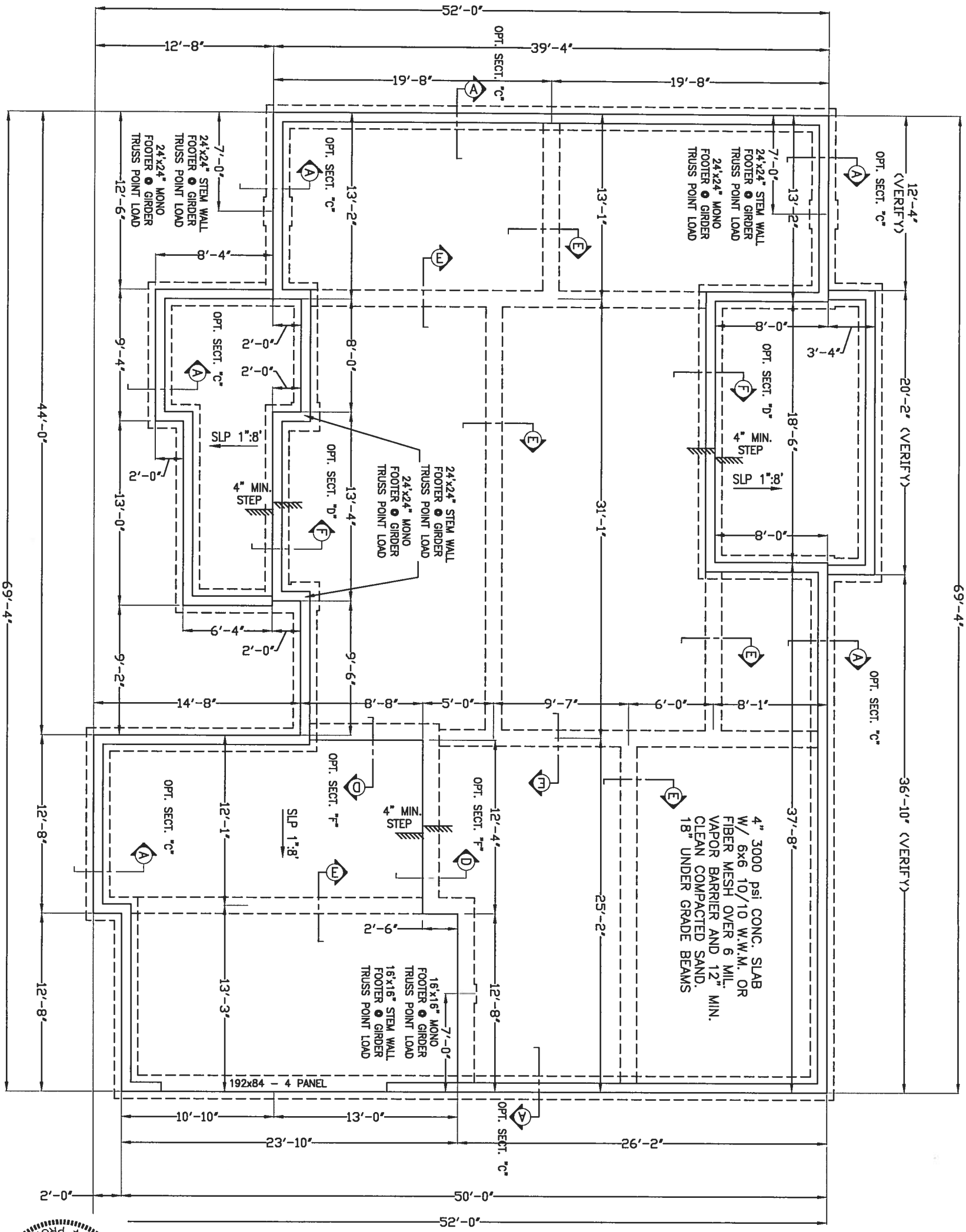

FOUNDATION PLAN

1/8" = 1'-0"

NOTE:
1. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR FOUNDATION PLAN PRIOR TO CONSTRUCTION
2. LOCATION AND QUANTITY OF FLOOR OUTLETS AND OTHER FOUNDATION PENETRATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO SLAB POUR.

NOTE:
INTERIOR LOAD CONDITIONS SHALL BE VERIFIED WITH TRUSS MANUFACTURER. ADDITIONAL INTERIOR GRADE BEAMS AS PER SECTION "E" SHALL BE REQUIRED UNDER ANY LOAD BEARING WALLS OR COLUMNS. GRADE BEAMS SHALL TIE INTO AND BE POURED CONTINUOUS WITH ADJACENT GRADE BEAMS AND/OR OUTER EDGE OF SLAB.

COLUMBIA COUNTY BUILDING DEPARTMENT
PLANS EXAMINER
FILE COPY
Received for Code Compliance

R. MICHAEL LATIMER, P.E.
LICENSE #41970
DEC ENGINEERING INC.
STATE CERTIFICATION #4244

R. MICHAEL LATIMER LICENSE No. 41970 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date: 2019.03.21 14:40:12 -04'00'

37859

PROJECT:	237 SW Paddock Ct, Lot 8, lake City, Fl. 32024
TITLE:	Foundation Plan
SCALE:	1/8"=1'-0"
CLIENT:	Gibraltar Contracting, LLC
File Name:	
Designed:	D.A.W.
Drawn:	D.A.W.
Checked:	R.M.L.
Date:	3-21-19

Revised by:	Date:	Description:

No. 18D-202

Sheet 1 of 5

DEC Engineering, Inc.
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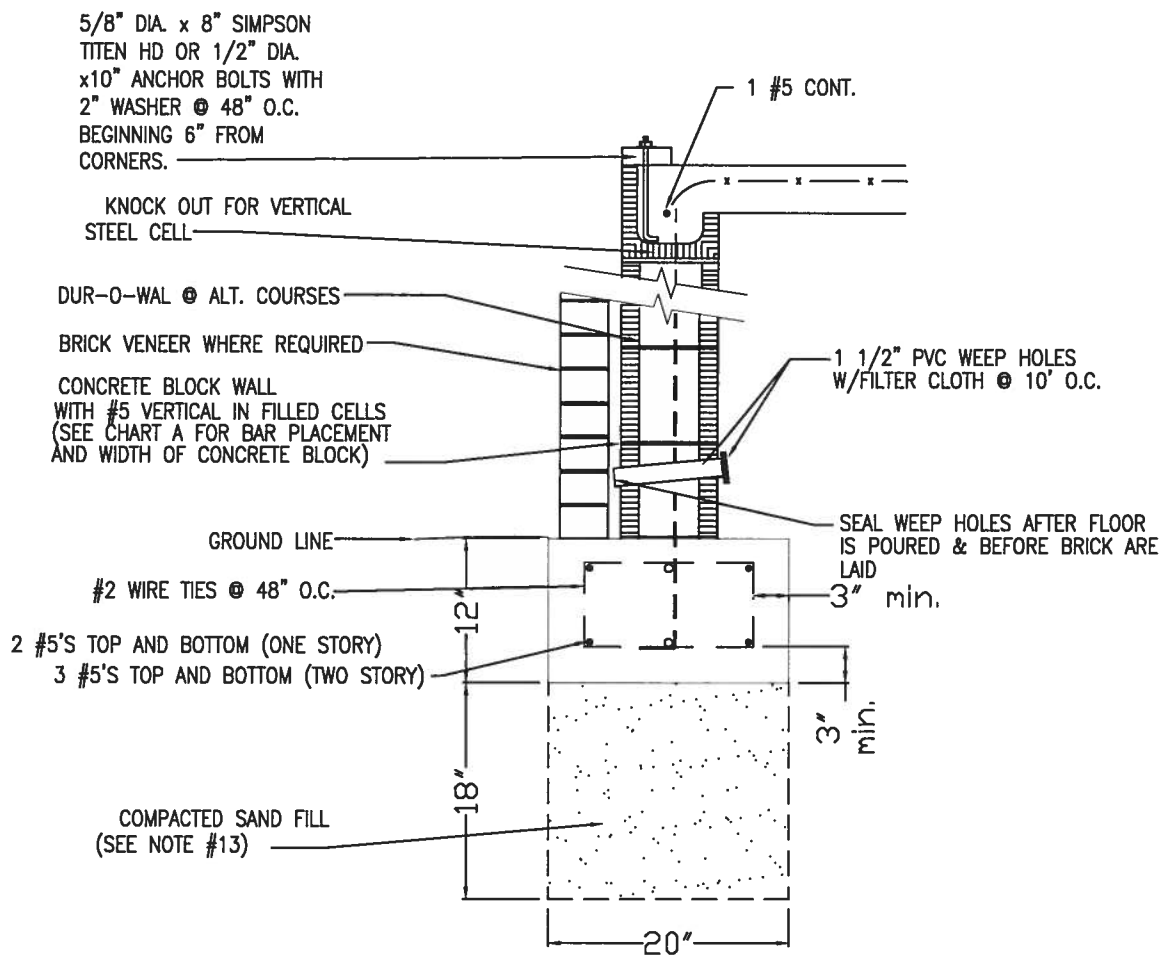
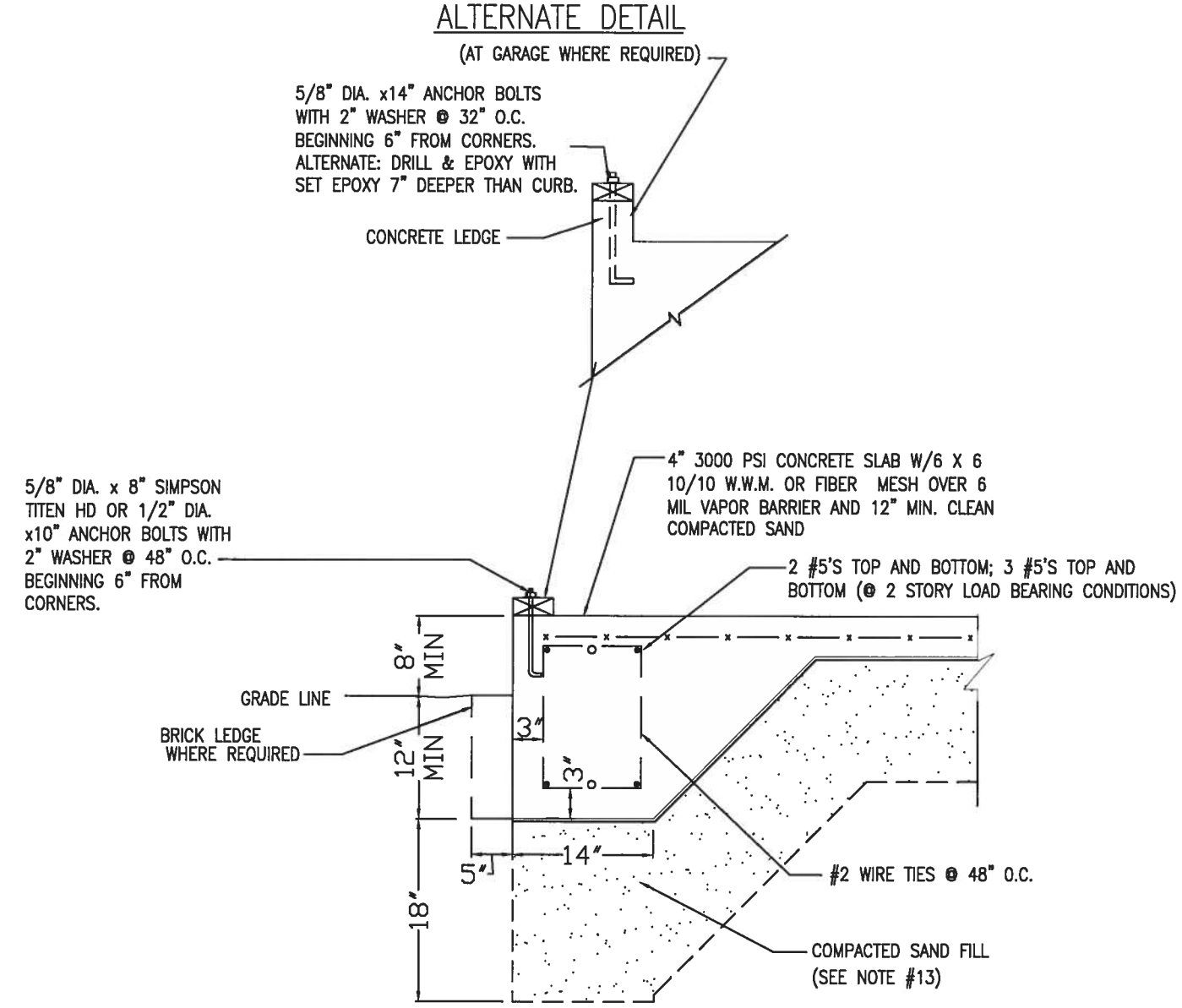


A. SECTION



C. TYPICAL EXTERIOR GRADE BEAM

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PROJECT: 237 SW Paddock Ct, Lot 8, Lake City, Fl. 32024
TITLE: Foundation Details | SCALE: 3/4"=1'-0" | CLIENT: Gibraltar Contracting, LLC

Revised by:	Date:	Description:

File Name:	
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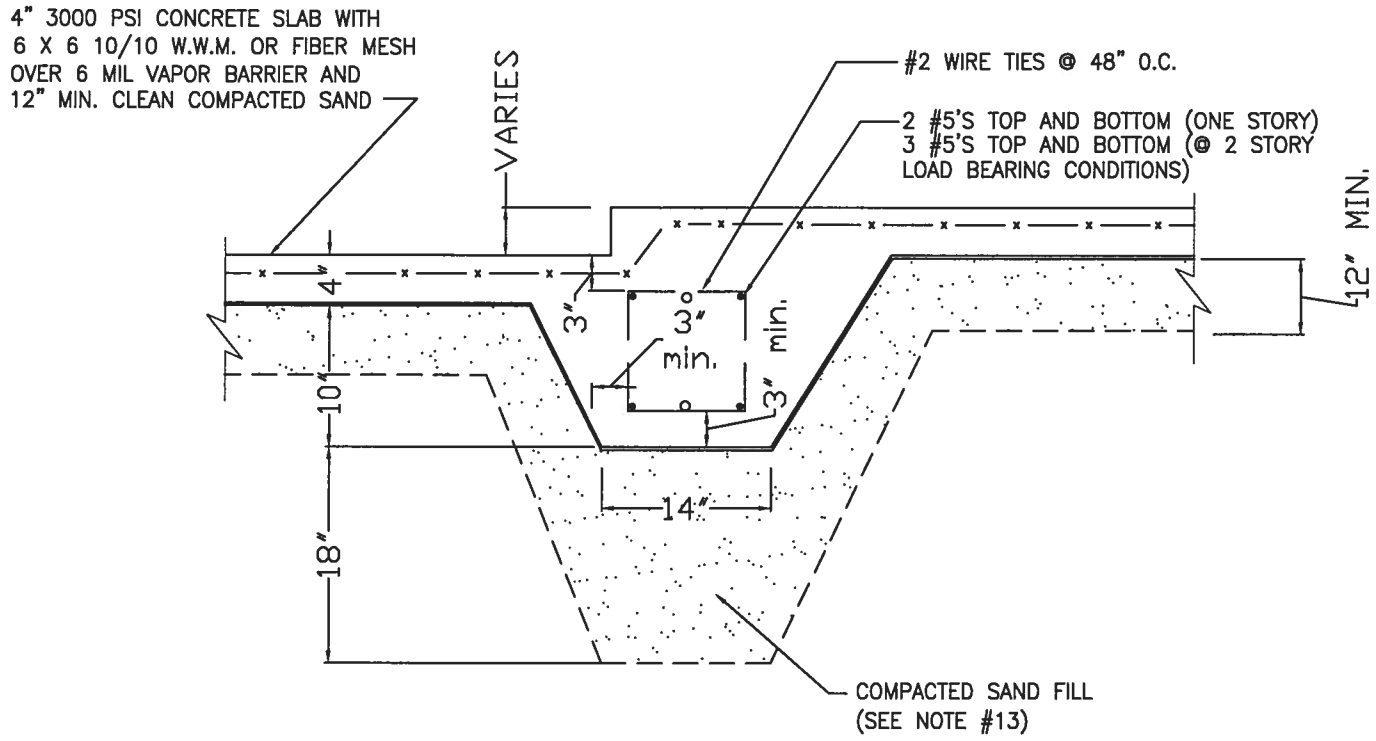
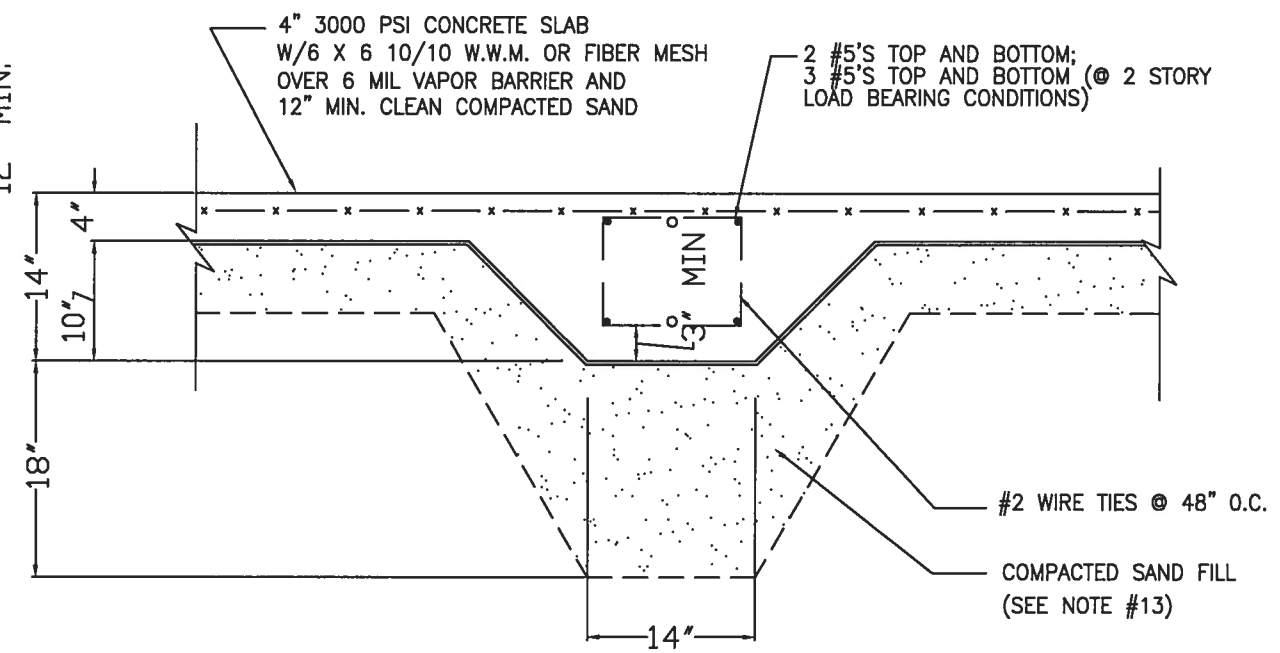
Sheet 2 of 5

NO. 18D-202



D. STEP-DOWN DETAIL

NOTE: WHERE USED WITH BLOCK STEM, INTERIOR GRADE BEAM SHALL BE TIED TO PERIMETER WALL/FOOTER BY TURNING 2 OF THE SHOWN #5 BARS DOWN THROUGH FILLED CELLS AND INTO PERIMETER FOOTER.



E. TYPICAL INTERIOR GRADE BEAM

NOTE: WHERE USED WITH BLOCK STEM, INTERIOR GRADE BEAM SHALL BE TIED TO PERIMETER WALL/FOOTER BY TURNING 2 OF THE SHOWN #5 BARS DOWN THROUGH FILLED CELLS AND INTO PERIMETER FOOTER.

R. MICHAEL LATIMER LICENSE No. 41970 STATE OF FLORIDA PROFESSIONAL ENGINEER

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PROJECT: 237 SW Paddock Ct, Lot 8, Lake City, Fl. 32024
TITLE: Foundation Details
SCALE: 3/4"=1'-0"
CLIENT: Gibraltar Contracting, LLC

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Sheet 3 of 5

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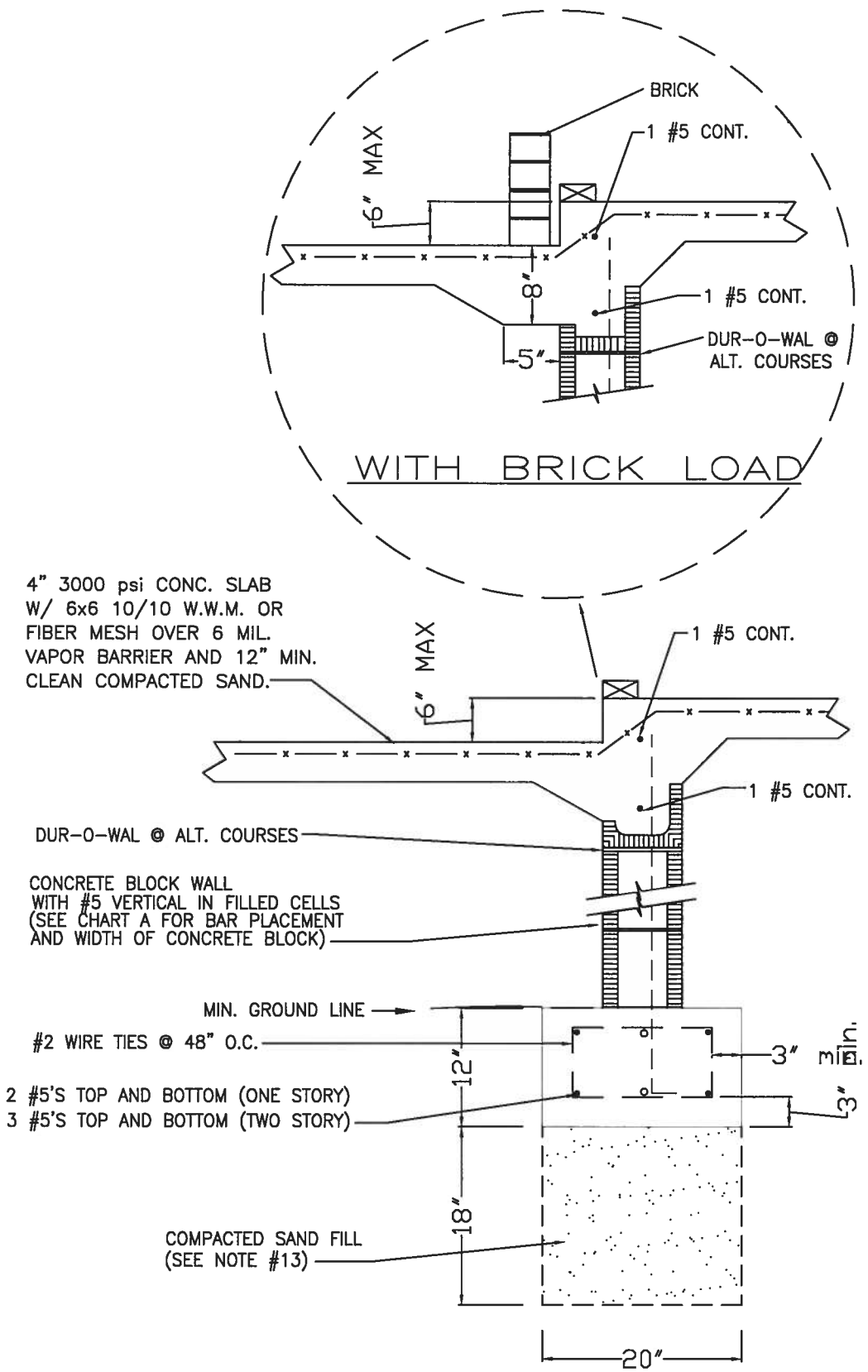

F. STEP DOWN AT GRADE BEAM

GENERAL NOTES FOR SPECIAL FOUNDATION

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2017 FLORIDA BUILDING CODE.
2. IN THE EVENT OF A CONFLICT BETWEEN PLANS AND THE CODES, THE CODES SHALL GOVERN.
3. LOT SHALL BE LANDSCAPED TO PREVENT THE DETENTION OF SURFACE WATER.
4. CONCRETE: 3000 PSI STEEL: GRADE 60
5. ALL FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST.

   DEFINITION:
   a. COMPACTION TEST WILL NOT BE REQUIRED WHEN THE FILL IS LESS THAN 12 INCHES IN DEPTH. THE INSPECTOR'S SHALL USE BEST JUDGEMENT.
   b. WHEN THE FILL IS 12 INCHES TO 18 INCHES IN DEPTH, COMPACTION TEST WILL BE REQUIRED ONLY IF THE INSPECTOR'S JUDGEMENT IS THAT THE COMPACTION IS QUESTIONABLE.
   c. WHEN THE FILL IS 18 INCHES IN DEPTH OR MORE COMPACTION TEST WILL BE REQUIRED.
6. ALL SPLICES IN FOOTING STEEL SHALL BE LAPPED 40 BAR DIAMETERS IN CONCRETE BLOCK AND 30 BAR DIAMETERS IN MONOLITHIC SLAB.
7. STEEL IN INTERIOR GRADE BEAMS SHALL BE SPLICED TO STEEL IN EXTERIOR GRADE BEAMS TO ASSURE CONTINUITY OF FOOTING THROUGHOUT STRUCTURE.
8. EXTERIOR GRADE BEAMS SHALL RUN CONTINUOUS AROUND THE PERIMETER OF THE STRUCTURE TO ASSURE CONTINUITY.
9. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED MAXIMUM 15 FEET IN EACH DIRECTION.
10. SOIL SHALL BE CHEMICALLY TREATED FOR TERMITES PER F.B.C. (SEE NOTE 23 FOR ALTERNATE)
11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO BEGINNING CONSTRUCTION.
12. ALL REINFORCING STEEL SHALL BE LOCATED MIN. 3" FROM CONCRETE SURFACE.
13. A CLEAN COMPACTED SAND FILL AT LEAST 18 INCHES THICK SHALL BE PLACED UNDER ALL EXTERIOR AND INTERIOR GRADE BEAMS.
    NOTE:
    THIS MAY BE OMITTED IN AREAS THAT HAVE AT LEAST 30 INCHES OF CLEAN PACTED NATURAL SOIL THAT HAS A MINIMUM BEARING CAPACITY OF 2000 PSF AND IS FREE OF MULCH, ORGANIC MATERIAL AND PLASTIC CLAYS AND CONSIST OF AT LEAST 50% SAND (EST.)
14. ANY ORGANIC MATERIAL UNDER FOUNDATION SHALL BE REMOVED PRIOR TO CONSTRUCTION, UNLESS OTHERWISE SPECIFIED.
15. FOR STEM WALLS 56" OR HIGHER, FORMWORK SHALL BE BRACED BEFORE BACKFILLING.
16. CONCRETE BLOCK SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI.
17. ADDITIONAL #5 W/ FILLED CELLS @ LOAD BEARING POINTS ON WALL
18. INCREASE OVERALL STEMWALL FOOTER WIDTH BY 4" WHEN BLOCK SIZE IS INCREASED FROM 8" BLOCK TO 12" BLOCK.
19. FOUNDATION DESIGN UNLESS NOTED IN SOILS REPORT IS A MIN. BEARING CAPACITY OF 2000 PSF.
20. USE 3#5's @ FOOTER FOR ANY SECOND STORY LOADING PER DETAIL.
21. WIND LOAD REQUIREMENTS FOR ANCHOR BOLTS TAKE PRECEDENT
22. FOOTER @ A 12" MIN. INTO UNDISTURBED SOIL.
23. APPLICATION OF WOOD-TREATMENT TERMITCIDE SHALL BE AS REQUIRED BY LABEL DIRECTIONS FOR USE, AND MUST BE COMPLETED PRIOR TO FINAL BUILDING APPROVAL. CHANGES IN FRAMING OR ADDITIONS TO FRAMING IN AREAS OF THE STRUCTURE REQUIRING TREATMENT THAT OCCUR AFTER WOOD TREATMENT MUST BE TREATED PRIOR TO FINAL BUILDING APROVAL.

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Phone: (850) 385-5288 Fax: (850) 386-7586
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PROJECT: 237 SW Paddock Ct, Lot 8, Lake City, Fl, 32024
TITLE: Foundation Details
CLIENT: Gibraltar Contracting, LLC
SCALE: 3/4"=1'-0"

Revised by:	Date:	Description:

File Name:	
Designed:	D.A.W.
Drawn:	D.A.W.
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Sheet 4 of 5

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R. MICHAEL LATIMER, P.E.
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CHART A
VERTICAL BAR PLACEMENT FOR
BLOCK WALL WITH CONCRETE FLOOR SLAB OR JOIST DESIGN

FOR FLOOR JOIST DESIGN USE BOND BEAM WITH 1 #5 REINFORCED BAR CONTINUOUS FOR SLAB FLOOR, POUR INTO BLOCK WITH WELDED WIRE MESH. (SEE CHART BELOW.)

**IN ALL CASES VERTICAL BARS SHALL BE PLACED AT EITHER SIDE OF OPENINGS IN WALL AND AT EACH CORNER. VERTICAL BARS SHALL BE BENT 24" INTO SLAB EACH REINFORCED CELL SHALL BE FILLED WITH CONCRETE **

*** FLOOR SYSTEM TO BE PLACED BEFORE BACKFILLING

H--HEIGHT OF WALL	WIDTH OF BLOCK	VERTICAL BAR SPACING
H ≤ 56	8"	NO. 5 @ 48" O.C.
56 < H ≤ 72	8"	NO. 5 @ 32" O.C.
72 < H ≤ 88	12"	NO. 5 @ 32" O.C. W/ BOND BEAM W/ 1 #5 @ MID-HEIGHT
	8" *	NO. 5 @ 32" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1- #5 SHALL BE PROVIDED @ MID-HEIGHT)
88 < H ≤ 96	12"	NO. 5 @ 24" O.C. W/ BOND BEAM W/ 1 #5 @ MID-HEIGHT
	8" *	NO. 5 @ 24" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1 #5 SHALL BE PROVIDED @ MID-HEIGHT)
96 < H ≤ 120	12"	NO. 5 @ 16" O.C. (ALL CELLS FILLED W/3000 PSI CONC.) W/ BOND BEAM W/ 1 #5 @ 48" O.C. OR LESS ***
	8" *	NO. 5 @ 24" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1 #5 SHALL BE PROVIDED @ MID-HEIGHT)
120 < H ≤ 132	12"	NO. 6 @ 8" O.C. (ALL CELLS FILLED W/3000 PSI CONC.) W/ BOND BEAM W/ 1 #6 @ MID-HEIGHT
	8" *	NO. 5 @ 24" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1 #5 SHALL BE PROVIDED @ MID-HEIGHT)

CHART B
PHYSICAL PROPERTIES OF MASONRY CEMENTS

MASONRY CEMENT TYPE	N	* S	* M
TIME OF SETTING			
INITIAL SET, MINIMUM, HR.	2	1 1/2	1 1/2
FINAL SET, MAXIMUM, HR.	24	24	24
COMPRESSIVE STRENGTH (AVERAGE OF 3 CUBES), MIN.			
7 DAYS, PSI (MPa)	500 (3.4)	1300 (9.0)	1800 (12.4)
28 DAYS, PSI (MPa)	900 (6.2)	2100 (14.5)	2900 (20.0)

* FOR THE PURPOSE OF THESE PLANS USE GRADE 'S' OR 'M'

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Sheet 5 of 5

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