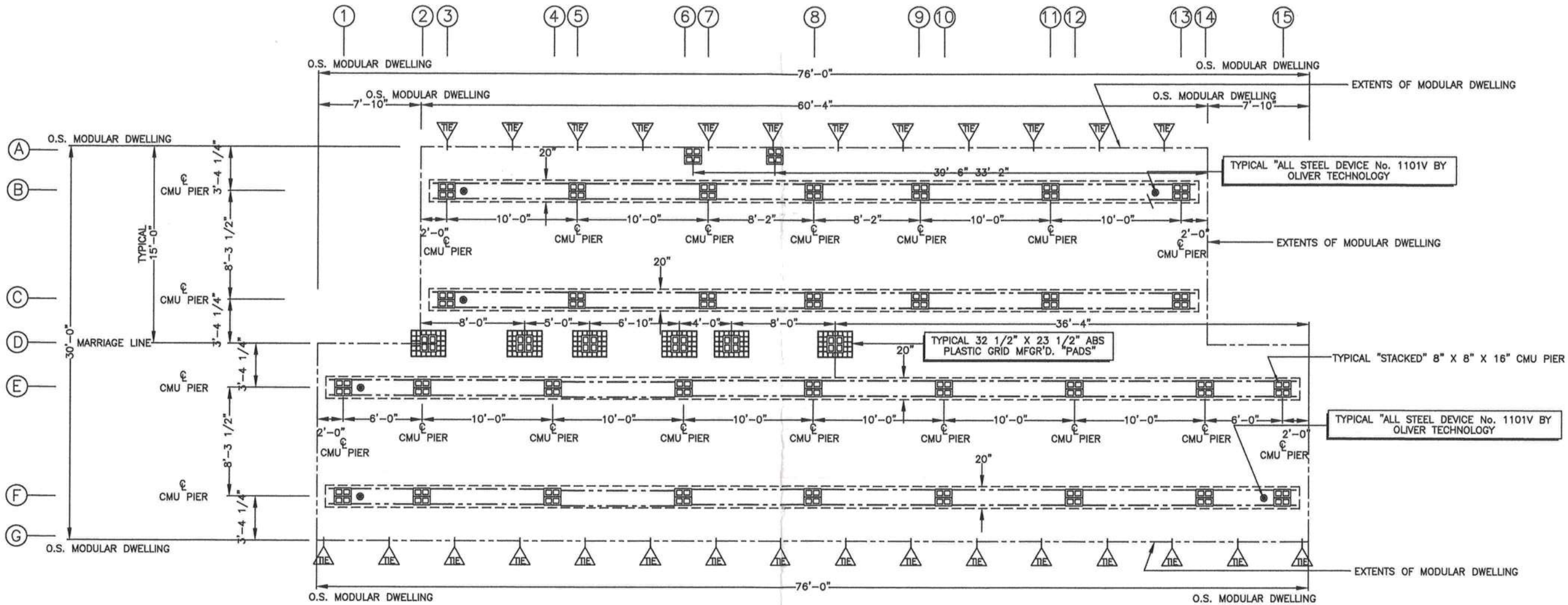
NOTE: WIND RELATED STRUCTURAL ELEMENTS ONLY – NO OTHER REGULATORY, CODE OR STATUTES ARE ADDRESSED BY THE ENGINEER. THE CONTRACTOR SHALL CONFIRM COMPLIANCE W/ ALL APPLICABLE CODES AND REGULATORY STATUTES OF APPLICABLE STATE, COUNTY OR MUNICIPAL AUTHORITY.

SCALE NOTE:
PLAN VIEW: 1/8"=1'-0

NOTE:
THE PRESCRIPTIVE REQUIREMENTS DETAILED ON THESE PLANS ARE SPECIFIC TO THE CONDITIONS FOR THIS SITE AND APPLICATION. USE OF THE REQUIREMENTS INDICATED IN THESE PLANS FOR ALTERNATE CONDITIONS OR SITES WILL NOT PROVIDE COMPLIANCE W/ APPLICABLE SECTIONS OF THE FLORIDA BUILDING CODE.




1 S1.0.0 DIMENSIONED FOUNDATION PLAN VIEW
SCALE: 1/8" = 1'-0

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

CERTIFICATION:
THIS FOUNDATION PLAN FOR THE MTF-2530-EZ-476-1 WILL COMPLY WITH SECTION 1609 OF THE 2010 FLORIDA BUILDING CODE, FOR A 120 MPH WIND LOAD, 3 SECOND GUST, EXPOSURE B, WITH THE INTERNAL PRESSURE OF + 0.18 AND – 0.18 INCLUDED IN THESE LOADS. THIS DESIGN IS FOR THE FOOTINGS, COLUMNS AND CONNECTIONS. HOME IS NOT A PART.

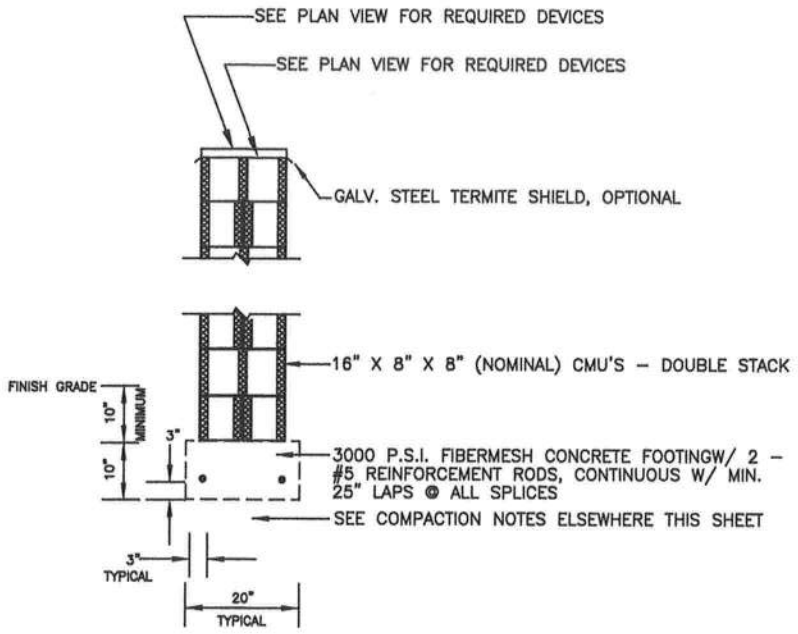
CURTIS E. KEEN, PE #23836

ENERGY HOMES MODEL MFT-2530-EZ-476-1

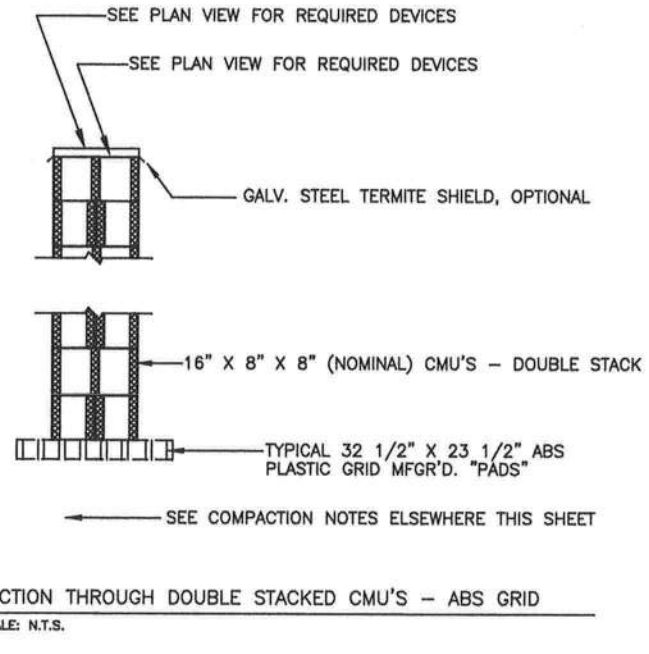
| | | | | |
|---|---|---|---|---|
| PROJECT No. WILSON-S1.0.0.DWG<br>SHEET No. S1.0.0<br>DATE 08/13/12 | DIMENSIONED FOUNDATION SYSTEM PLAN VIEW<br>MISC. NOTES, REFERNCES & INSTRUCTIONS<br> | Curtis E. Keen, PE #23836<br>Certification of Authorization #3761<br>DATE: | WILSON RESIDENCE<br>COLUMBIA COUNTY, FLORIDA | KEEN ENGINEERING & SURVEYING, INC.<br>9263 CR 417<br>LIVE OAK, FLORIDA 32060<br>386-362-4787<br>ENG. LIC. EB 3761 |

NOTE: WIND RELATED STRUCTURAL ELEMENTS ONLY – NO OTHER REGULATORY, CODE OR STATUTES ARE ADDRESSED BY THE ENGINEER. THE CONTRACTOR SHALL CONFIRM COMPLIANCE W/ ALL APPLICABLE CODES AND REGULATORY STATUTES OF APPLICABLE STATE, COUNTY OR MUNICIPAL AUTHORITY.

SCALE NOTE:
DETAILS/SECTIONS: N.T.S.




1 / S1.1.0 SECTION THROUGH DOUBLE STACKED CMU'S – CONCRETE
SCALE: N.T.S.




2 / S1.1.0 SECTION THROUGH DOUBLE STACKED CMU'S – ABS GRID
SCALE: N.T.S.

## CONCRETE & RELATED REQUIREMENTS

CONCRETE

1. CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318," & "MANUAL CONCRETE PRACTICE, PART 1 ACI 305 & ACI 306," & MANUAL OF CONCRETE PARACTICE, PART 1 ACI 305 & 306" LATEST EDITION
2. CEMENT FOR CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C 150
3. AGGREGRATES FOR CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C 33
4. WATER FOR CONCRETE SHALL BE POTABLE WATER
5. OPTIONAL: TEST CONCRETE FOR COMPRESSION WITH 1 SET OF 3 CYLINDERS FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED ON A GIVEN DAY. BREAK 1 CYLINDER @ 7 DAYS AND THE OTHERS @ 28 DAYS. TESTING WILL BE PAID FOR BY OWNER.
6. CONCRETE SHALL HAVE STRENGTHS AND CHARACTERISTICS AS INDICATED ELSEWHERE THESE PLANS
7. SAWED JOINTS MUST BE SAWED WITHIN 24 HOURS OF PLACEMENT OF CONCRETE
8. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615 GR 60 UNLESS OTHERWISE NOTED
9. NOT USED
10. NOT USED
11. SLAB REINFORCING SWHALLBE IN TOP 1/2 OF SLAB OR AS ILLUSTRATED
12. VIBRATE OR SCREEN ALL CONCRETE THOROUGHLY INTO PLACE
13. MINUMUM COVER OF REINFORCEMENT SHALL BE AS REQUIRED BY CODE
14. MOIST CURE CONCRETE FOR 7 DAYS AFTER PLACING
15. PROVIDE VAPOR BARRIER OF POLYETHELENE UNDER SLAB(S)
16. PLACE CONTROL JOINTS IN SLAB TO PROVIDE MAXIMUM SLAB SIZE OF 600 SQUARE FEET
17. CONCRETE TEMPERATURE SHALL NOT EXCEED 90 DEGREES F DURING PLACEMENT
18. CONCRETE SHALL BE PLACED IN A MANNER TO PRVENT SEGREGATION
19. CONCRETE SHALL NOT BE ALLOWED TO FREE FALL MORE THAN 60 INCHES
20. AREAS TO RECEIVE CONCRETE SHALL BE CLEAR OF ANY DEBRIS AND SHALL HAVE REINFORCING STEEL PROPERLY POSITIONED PRIOR TO CONCRETE PLACEMENT
21. FOR LOCATION OF CONTROL OR CONSTRUCTION JOINTS OTHER THAN THOSE ILLUSTRATED VERIFY W/ ENGINEER
22. NOT USED
23. ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A 307
24. ANCHOR BOLTS AND DOWELS SHALL BE SET IN SUCH A MANNER THAT THEIR FULL EMBEDDED LENGTH SHALL BE COVERED WITH CONCRETE
25. LAP SPLICES SHALL BE 40 BAR DIAMETERS OR AS SHOWN OR NOTED ELSEWHERE THESE PLANS
26. DETAILING, FABRICATION AND PLACEMENT OF REINFORCEMENT STEEL SHALL CONFORM TO CURRENT CRSI AND ACI SPECIFICATIONS
27. REINFORCING STEEL SHALL BE FREE OF LOOSE RUST, MIL SCALE AND COATINGS THAT WOULD REDUCE OR DESTROY BOND
28. REINFORCING BARS SHALL NOT BE REDUCED IN SECTION, KINKED OR BENT OTHER THAN INDICATED
29. NOT USED
30. SUPPORT REINFORCING STEEL IN CHAIRS
31. KEEP ONE SET OF CONCRETE CYLINDERS ON SITE AT ALL TIMES TO MAKE SAMPLES IN CASE CONCRETE CHARACTER CHANGES

REINFORCING STEEL

1. REINFORCEING STEEL SHALL BE #5 UNLESS OTHERWISE NOTED
2. ALL REINFORCING STEEL SHALL BE A MINIMUM OF GRADE 40 AND IDENTIFIED IN ACCORDANCE W/ ASTM A615, A616, A617 OR A 706
3. SPLICES SHALL BE LAP SPLICES W/ A MINIMUM OF 25" FOR #5 BARS
4. FOR MINIMUM COVER OVER REINFORCEMENT – SEE DETAILS & SECTIONS ELSEWHERE THESE PLANS
5. ALL REINFORCEMENT IN CMU'S SHALL EXTEND A MINIMUM OF 6" INTO ALL FOOTINGS W/ A 6" STANDARD BEND

METAL ACCESSORIES

1. ALL JOINT REINFORCEMENT & ANCHOR TIES SHALL CONFORM TO ASTM A36 & A366 AS REQUIRED
2. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDED IN MOTAR OR GROUT W/ A MINIMUM COVER OF 5/8" WHEN EXPOSED TO EARTH OR WEATHER AND A MINIMUM OF 1/2" WHEN NOT EXPOSED TO EARTH OR WEATHER
3. METAL ACCESSORIES USED IN EXTERIOR WALL CONSTRUCTION SHALLBE GALVANIZED IN ACCORDANCE W/ ASTM A153 CLASS B–2
4. METAL ACCESSORIES USED IN INTERIOR WALL CONSTRUCTION SHALL BE MILL GALVANIZED IN ACCORDANCE W/ ASTM A641, CLASS 1

FILL COMPACTION

1. PRIOR TO GRADING OPERATIONS ALL SOIL, ORGANIC LITTER AND FILL SHALL BE STRIPPED FROM BUILDING AREA
2. COMPACTION SHALL NOT BE LESS THAN 98% OF THE STANDARD PROCTOR DENSITY
3. ALL FILL MATERIAL SHALL BE INORGANIC W/ NOT MORE THAN 30% BY WEIGHT FINER THAN 200 U.S. STANDARD SIEVE CONFORMING TO
   A. LIQUID LIMIT, LW.....30 MAXIMUM
   B. ELASTICITY, LW.....15, MAXIMUM
   C. DRY UNIT WEIGHT.....100 LBS. PER CU. FT.
4. ALL FILL MATERIAL SHALL BE UNIFORMLY PLACED @ OPTIMUM MOISTURE CONTENT IN 6" UNIFORM LAYERS AND COMPACTED TO A DENSITY OF 98% OF THE STANDARD PROCTOR IN ACCORDANCE W/ ASTM D698T
5. FOOTINGS EXCAVATIONS SHALL BE INSPECTED PRIR TO PLACING ANY CONCRETE TO ENSURE THAT FOOTINGS REST UPON SOUND EARTH
6. ALL SUBGRADES MUST BE LEVEL, SMOOTH AND UNIFORMLY COMPACTED
7. SUB GRADE MUST BE ACCURATE WITHING 1/4" OF THE DESIGNATED LEVEL
8. ANY WALL WHICH IS TO RECEIVE BACK FILL ON BOTH SIDES SHALL HAVE THE BACK FILL PLACED SIMULTANEOUSLY ON BOTH SIDES IN EVEN LAYERS AS PREVIOUSLY DESCRIBED SO AS NOT TO APPLY UNEVEN LOADS

GENERAL

1. FOOTINGS SHALL BE LEVEL OR STEPPED AS INDICATED ON PLAN VIEWS & DETAILS OR SECTIONS
2. SOIL, WASTE PIPES OR BUILDING DRAINS PASSING UNDER A FOOTING OR THROUGH A FOUNDATION SHALL BE PROVIDED W/ A RELIEVING ARCH OR AN IRON PIPE SLEEVE A MINIMUM OF 2 – PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH
3. STEM WALLS SHALL EXTEND NO GREATER THAN 3 FEET ABOVE THE FINISH GRADE AND CONSTRUCTED W/ THE PREVIOUSLY DESCRIBED MASONRY UNITS
4. ALL STATE AND LOCAL CODES SHALL BE COMPLIED WITH BY THE CONTRACTOR
5. A 2,000 P.S.F. SOIL BEARING PRESSURE SHALL BE OBTAINED UNDER ALL FOOTINGS & SLABS

| PROJECT No. | DATE |
|---|---|
| WILSON–S1.1.0.DWG | 08/13/12 |
| SHEET No. | |
| S1.0.0 | |

REFERENCED SECTONS & DETAILS
MISC. NOTES, REFERNCES & INSTRUCTIONS



Curtis E. Keen, PE #23836
Certification of Authorization #3761
DATE:

WILSON RESIDENCE
COLUMBIA COUNTY, FLORIDA

KEEN ENGINEERING & SURVEYING, INC.
9263 CR 417
LIVE OAK, FLORIDA 32060
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