

MICHIGAN

BUILDING CODE:

2015 MICHIGAN RESIDENTIAL CODE
2015 MICHIGAN PLUMBING CODE
2015 MICHIGAN UNIFORM ENERGY CODE

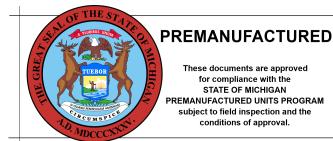
ATTENTION LOCAL INSPECTIONS DEPARTMENT
THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY CHAMPION MODULAR HOMES,
HAVE NOT BEEN INSPECTED BY PES, & ARE NOT CERTIFIED BY THE MICHIGAN MODULAR
LABEL. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL:

- 1) CLG FANS
- 2) ALL DOOR EXT. LIGHTS
- 3) ALL SITE CONNECTIONS PER INSTALLATION MANUAL AND FINISH
MANUAL
- 4) RODENT PROOFING FOR OPENINGS IN FLR & CLG FOR PASSAGE OF
PIPES
- 5) WINDOW GUARDS AS REQUIRED-SEE NOTE ON PAGE #3
- 6) ALL FIELD CONNECTIONS IN ROOF SYSTEM DONE ON-SITE BY BUILDER
SEE PAGE #9 & #10 & #11
- 7) ALL SIDING ON-SITE BY BUILDER
- 8) ELECTRICAL CONNECTIONS BETWEEN MODULES, TO PANEL BOX & TO
MAIN SERVICE
- 9) HOLD DOWN DEVICES BETWEEN MODULES AND FROM MODULES TO
FOUNDATION SYSTEM
- 10) HEATING/COOLING (HVAC) SYSTEM
- 11) HOLD DOWN STRAPS FROM FOUNDATION TO THE HOUSE

THIS HOME HAS BEEN DESIGNED SPECIFICALLY FOR:

FLINT

309 WEST 5TH AVE.
FLINT, MI 48502
GENESEE COUNTY
(DUPLEX)



PREMANUFACTURED
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for compliance with the
STATE OF MICHIGAN
PREMANUFACTURED UNITS PROGRAM
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conditions of approval.

BUILDER:
**INNOVALAB
DEVELOPMENT
GROUP**



FRONT ELEVATION

NOTES:

1. ITEMS SHOWN ON THE EXTERIOR ELEVATION DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY
2. GRILLS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY (SEE WINDOW MANUFACTURER CATALOG FOR ACTUAL GRILL PATTERN)

NOTES:

- 1) HEATING SYSTEM AND HEAT LOSS CALCULATIONS FOR THIS HOUSE ARE TO BE COMPLETED ONSITE. ALL HEATING SYSTEM EQUIPMENT IS SUPPLIED ONSITE BY BUILDER.
- 2) THIS HOUSE MAY BE CONSTRUCTED AS AN EXACT MIRROR OF ITSELF (EITHER SIDE TO SIDE, OR FRONT TO BACK).
- 3) 1-HOUR FIRE SEPARATION REQUIRED FROM BSMT FLOOR TO UNDERSIDE OF ROOF SHEATHING. (WP3370)

DRAWING INDEX:	
PAGE NUMBER	DESCRIPTION
1 of 33	COVER PAGE
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4 of 33	2ND FLOOR PLAN
5 of 33	1ST FLOOR ELECTRICAL PLAN
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7 of 33	CIRCUIT SCHEDULE
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10-11 of 33	CROSS SECTION & CONNECTION DTLs.
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15 of 33	PLUMBING RISER DIAGRAM
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17 of 33	WINDOW/DOOR SCHEDULE
18 of 33	ELECTRICAL LOAD CALC
19-28 of 33	RESCHECK (10 PAGES)
29-33 of 33	TRUSS PRINT (5 PAGES)

NOTE:

THE MANUFACTURER HAS NOT COMPLETED THE FOLLOWING ITEMS IN THE PRODUCTION FACILITY: THE THIRD PARTY HAS NOT INSPECTED THE ITEMS, AND THE ITEMS ARE NOT CERTIFIED BY THE MARYLAND AND THIRD PARTY CERTIFICATION LABEL. ALL MANUFACTURER SUPPLIED, AND FIELD INSTALLED ITEMS MUST BE INSPECTED AT THE LOCAL LEVEL:

- 1) PORCH KIT INSTALLATION
- 2) FIELD CONNECTIONS
- 3) TRUSS CONNECTIONS
- 4) GUTTERS
- 5) SPLASH BLOCKS
- 6) LEADERS
- 7) RIDGE VENT
- 8) ENERGY COMPLETION
- 9) HVAC UNIT, INCLUDING HEAT LOSS CALCULATIONS
- 10) BASEMENT STAIRS
- 11) PANEL BOX
- 12) WATER HEATER
- 13) PLUMBING CONNECTIONS
- 14) CONNECTIONS BELOW SILL PLATE
- 15) CONDITIONED BASEMENT

SITE CONDITIONS:	
GROUND SNOW LOAD:	30 PSF
WIND SPEED:	115 VULT MPH
EXPOSURE:	B
SEISMIC CATEGORY:	-
USE GROUP:	TWO FAMILY
CONSTRUCTION TYPE:	VB WOOD FRAME UNPROTECTED

SQUARE FOOTAGE:	
FIRST FLOOR:	1,544 SQ. FT.
SECOND FLOOR:	1,544 SQ. FT.
BONUS ROOM:	- SQ. FT.
GARAGE:	- SQ. FT.
TOTAL:	3,088 SQ. FT.
OVERALL SIZE	31'-4 1/4" x 50'-0"
MODEL:	2-STORY DUPLEX

CHAMPION FACTORY 041
CHAMPION MODULAR, INC.
10642 S. SUSQUEHANNA TRAIL
LIVERPOOL, PA 17045
**CHAMPION[®]
MODULAR**

BRAND:
**excel[®]
HOMES**

BUILDER:
INNOVALAB
CUSTOMER/PROJECT:
FLINT
ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

PROJECT:
**44592
DUPLEX**

TITLE:
COVER SHEET

DRAWN BY: MAB
DATE: 06-15-23
SCALE:
FILENAME: 44592 FN
FN

SHEET:
COVER
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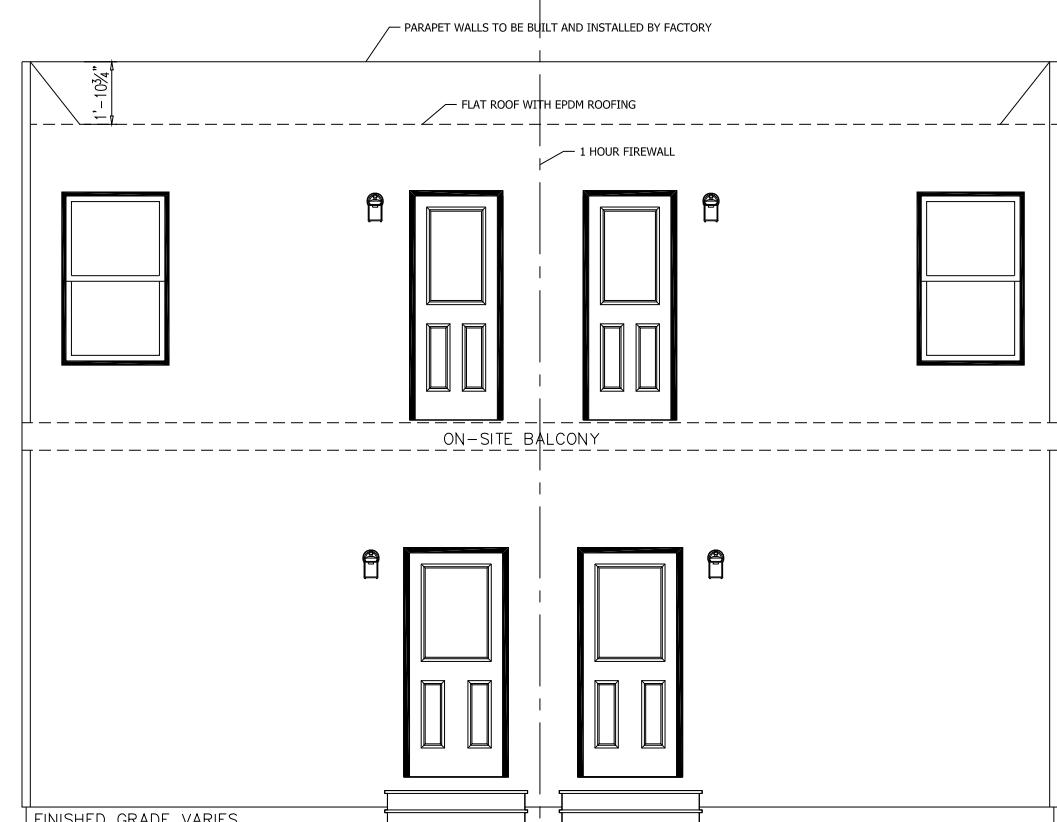
+/- 22'-7" TOP OF SILL TO PEAK

8'-0" 2ND FLOOR CEILING HEIGHT

2ND FLOOR FLOOR

9'-0" 1ST FLOOR CEILING HEIGHT

1ST FLOOR FLOOR
TOP OF SILL
GRADE



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MODIFICATIONS

PROJECT:

44592
DUPLEX

TITLE:

ELEVATIONS

DRAWN BY: MAB

DATE: 06-15-23

SCALE:

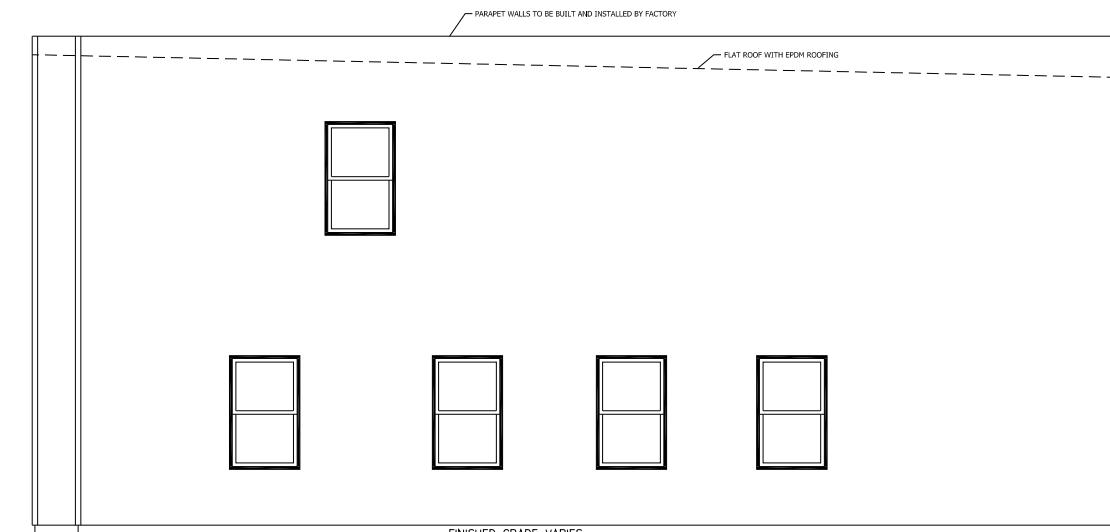
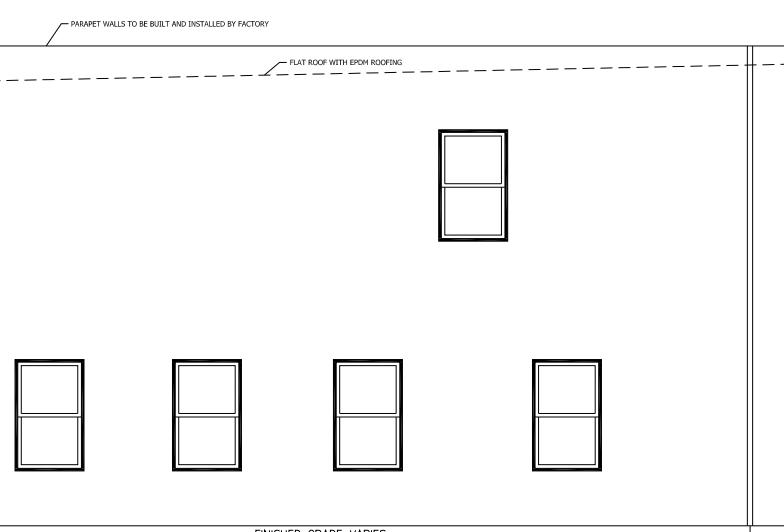
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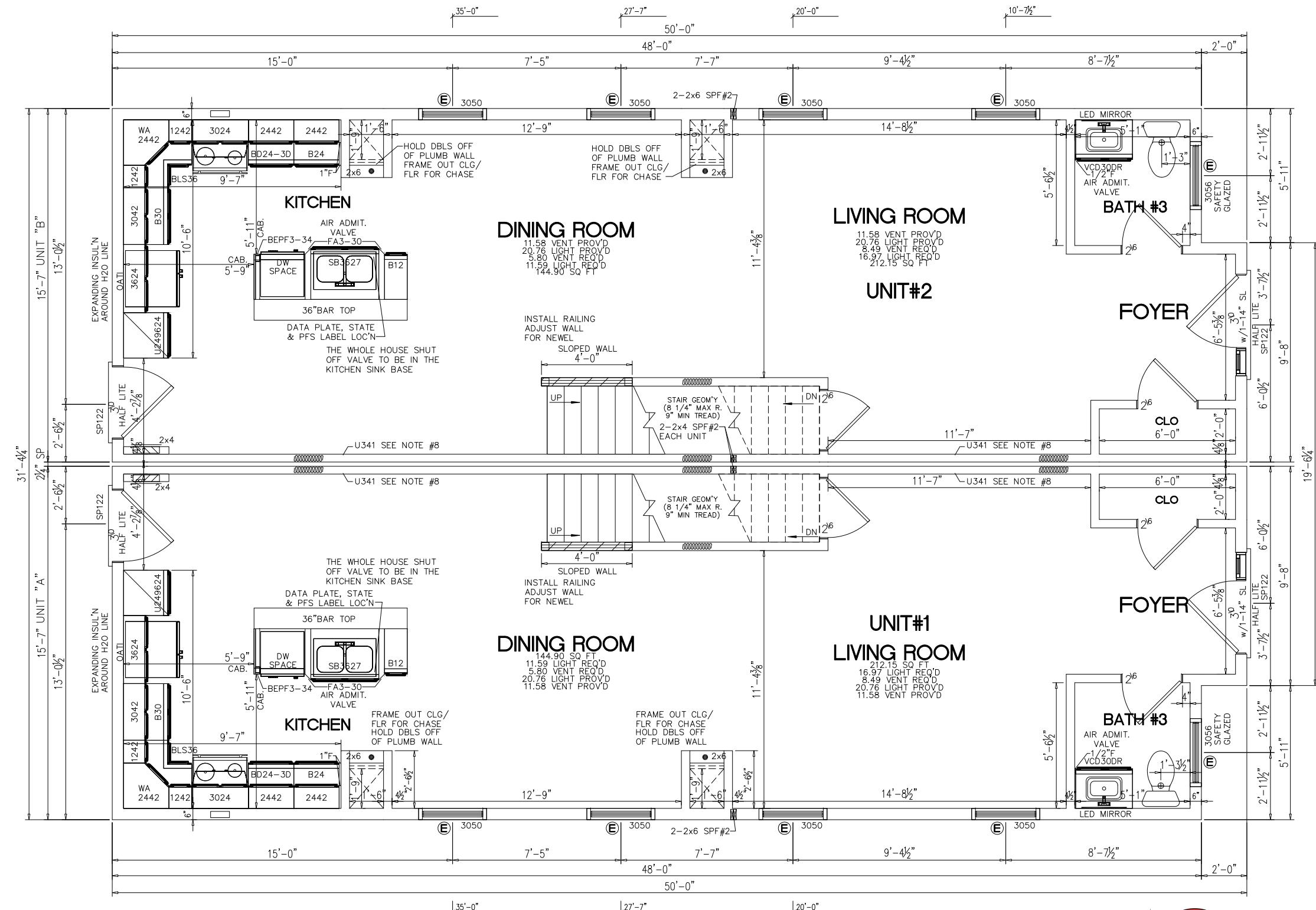
ELEVATIONS

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NOTES:

1. ITEMS SHOWN ON THE EXTERIOR ELEVATION DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY



NOTES:

1. 2x6 EXT WALLS @ 16" O.C./2x4 MARR WALLS @ 16" O.C. (EXCEPT AS NOTED)
2. 9'-0" CLG HT.
3. 2x10 SPF#2 FLOOR JOISTS @ 16" O.C.
4. ROOF SYSTEM TO BE 16" O.C.
5. ANDERSEN 100 SERIES SINGLE HUNG WINDOWS
6. BASED ON 115 VULT MPH WIND LOAD & EXPOSURE "-"
7. SITE LOCATION: FLINT, MI; GENESEE COUNTY; 30 PSF GROUND SNOW LOAD
8. 1 LAYER 5/8" TYPE "X" GYP. ONE SIDE @ MARR. WALL OVER 2x4 STUDS @ 16" O.C., (CROSS BRACED AT MID HEIGHT), ATTACH w/6d CEMENT COATED NAILS @ 7" O.C. (U341)

FACTORY TO INSTALL 1ST STORY SUPPLY LINES

NO DOOR/WINDOW HEADERS, EXCEPT AS NOTED
DOUBLE 2x12 CEILING PERIMETER CANNOT BE SPLICED OVER OPENINGS
(1ST LEVEL OF 2-STORY....UNIT A & B)

(E) = EGRESS WINDOWS

SEE THE DOOR AND WINDOW SCHEDULE FOR
OPENING SIZES AND EGRESS REQUIREMENTS

DOOR w/SWEEP LOCATED AT THE TOP OF THE
BASEMENT STAIRS TO CLOSE OFF THE BASEMENT
FROM THE THERMAL ENVELOPE OF THE 1ST STORY
INSULATE BSMT STAIR WALLS w/R-13

MICHIGAN
2015 INTERNATIONAL RESIDENTIAL CODE
2015 IECC
2017 NFPA NATIONAL ELECTRICAL CODE



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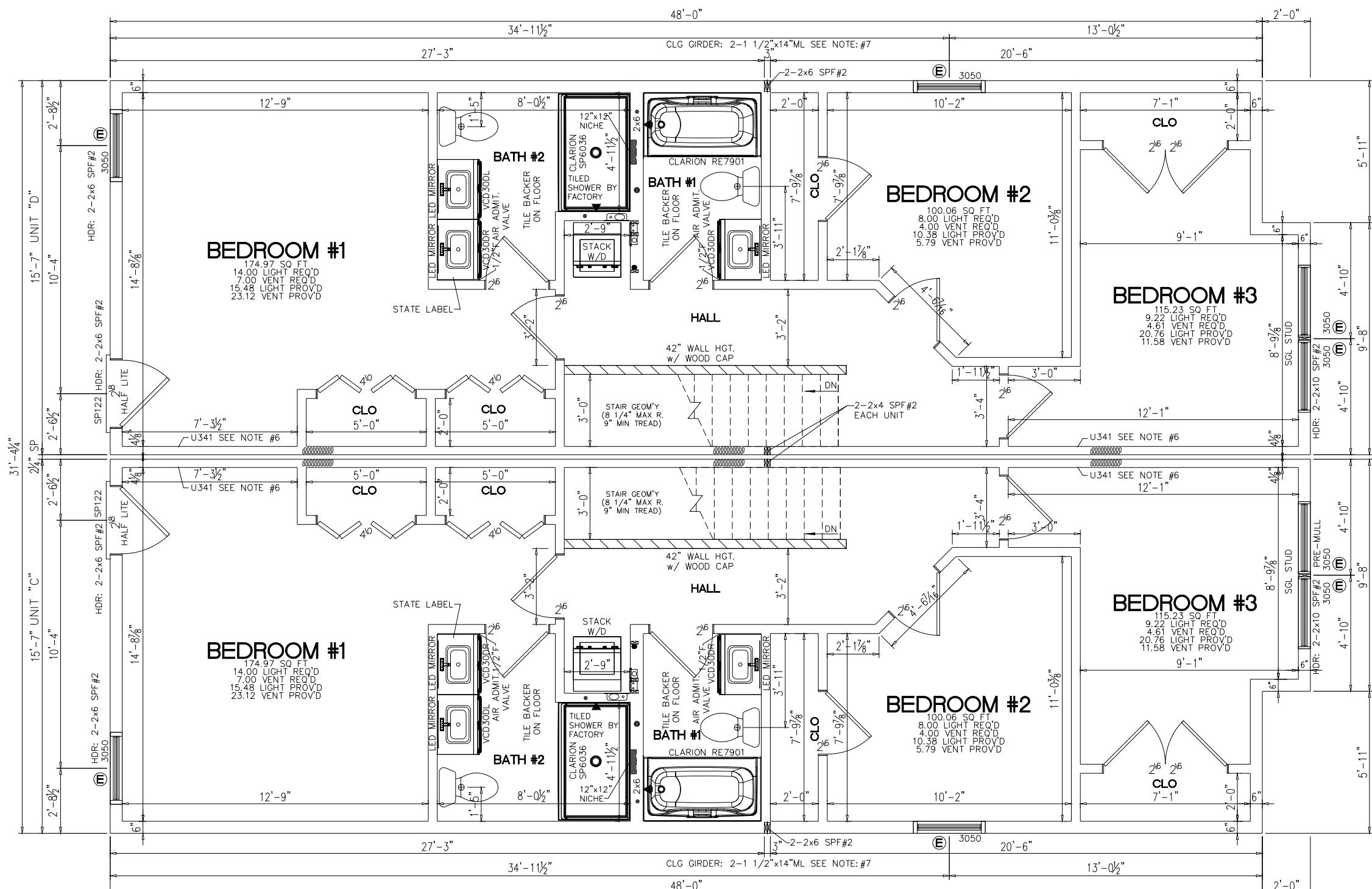
PROJECT:
44592 DUPLEX

TITLE:
**FIRST FLOOR
FLOOR PLAN**

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 3/16" = 1'-0"
FILENAME: 44592 FN
FN

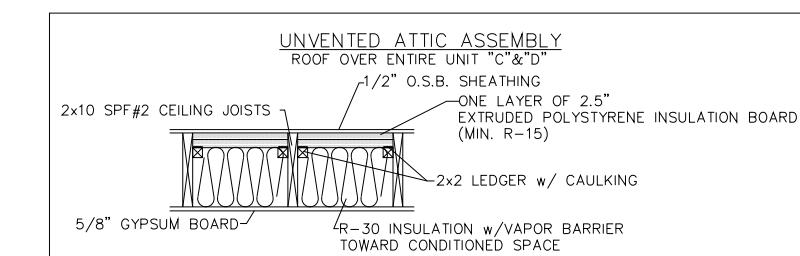
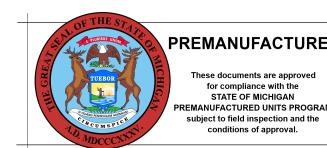
SHEET:
1ST FLR

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2. 8'-0" CLG HT.
3. 2x10 SPF#2 FLOOR JOISTS @ 16" O.C.
4. ROOF SYSTEM TO BE 16" O.C.
5. ANDERSEN 100 SERIES SINGLE HUNG WINDOWS
6. 1 LAYER 5/8" TYPE "X" GYP. ONE SIDE @ MARR. WALL OVER 2x4 STUDS @ 16" O.C., (CROSS BRACED AT MID HEIGHT), ATTACH w/6d CEMENT COATED NAILS @ 7" O.C. (U341)
7. CLG GIRDER OVER CLOSET/HALL/STAIR TO BE: 2-1 1/2"x14"x15'-7" M.I. (EACH UNIT)



E = EGRESS WINDOWS

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MODIFICATIONS

PROJECT: 44592 DUPLEX

SECOND FLOOR FLOOR PLAN

AWN BY MAP

AWN BY: MAB
ATE: 06-15-23
ALE: 3/16" = 1'-0"
LENAME: 44592 FN

HEET:
2ND FLR

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HOMES**

BUILDER:

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CUSTOMER/PROJECT:

FLINT

ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

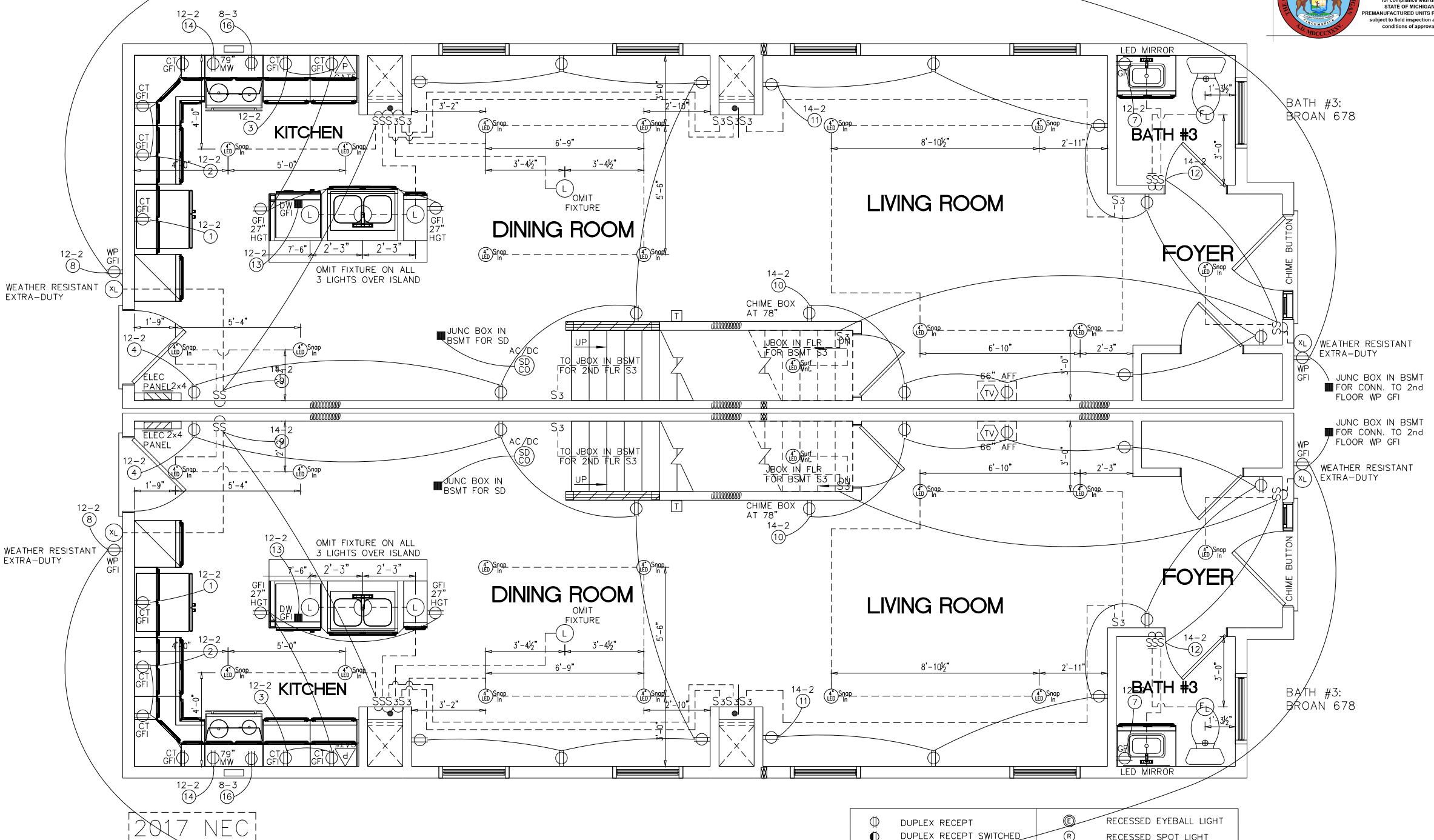
PROJECT:
**44592
DUPLEX**

TITLE:
**FIRST FLOOR
ELECTRICAL PLAN**

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 3/16" = 1'-0"
FILENAME: 44592 FN
FN

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APPROVERS SEAL

MODIFICATIONS

PROJECT:
44592
DUPLEX

TITLE:
SECOND FLOOR
FLOOR PLAN

DRAWN BY: MAB

DATE: 06-15-23

SCALE: 3/16" = 1'-0"

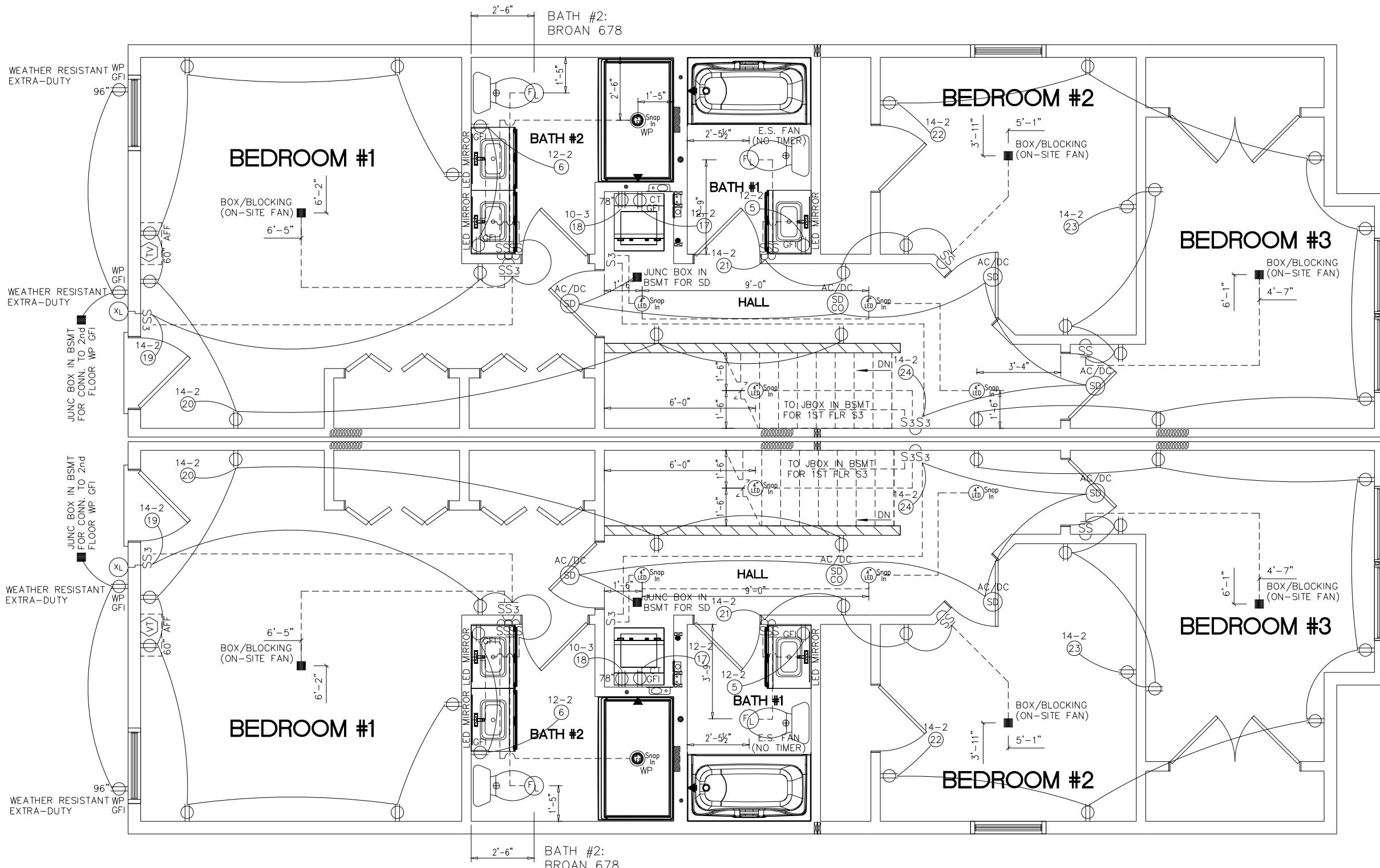
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The logo for Excel Homes. It features the word "excel" in a lowercase, bold, sans-serif font, with a registered trademark symbol (®) in the top right corner. Below "excel" is the word "HOMES" in a larger, bold, black sans-serif font. A thick, black, diagonal wedge shape is positioned to the left of the "e" in "excel".

ILDER: **INNOVALAB**
STOMER/PROJECT: **FLINT**
CINEERICK / ARCHITECTIC GEM

ENGINEER'S / ARCHITECT'S SEAL

UNIT - 1

CIRCUIT SCHEDULE (200 AMP PANEL)

UNIT - 2

CIRCUIT SCHEDULE (200 AMP PANEL)



PROJECT:
44592
DUPLEX

TITLE: **PANEL BOX LAYOUT**

AWN BY: MAB
TE: 06-15-23
ALE:
LENAME: 44592 FN

MEET: **PANEL BOX**

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ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

PROJECT:
44592
DUPLEX

TITLE:
TYPICAL ELECTRICAL
NOTES

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 1/8" = 1'-0"
FILENAME: 44592.FN
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TYP ELEC

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ELECTRICAL CODE REVIEW
Electrical Wiring Layout or Diagram

A. Overall Project – General Requirements.

- (1) Proper working clearance must be provided and maintained about all electrical equipment especially main service equipment, all panels, disconnects, transformers, ect. They shall be located in dedicated spaces, no foreign pipes ducts or equipment permitted in these dedicated spaces. Illuminstion shall be provided.
- (2) Standard receptacles installed on 15 and 20 amp branch circuits shall be grounding type.
- (3) At least one receptacle with GFCI protection in addition to any provided for laundry equipment required in basements of dwelling units and in each attached garage with electrical power. This refers to basement receptacles.
- (4) At least one wall switch-controlled lighting outlet shall be installed in every habitable room, in bathrooms, hallways, stairways, attached garages, detached garages with electrical power, at outdoor entrances and exits and at entrances to basement, crawlspace and attics. At least one switched lighting outlet required in attic, crawlspace or basement if these spaces are used for storage or contain equipment requiring servicing. This refer especially to basement and attic lights.
- (5) In unfinished basements, all nonmetallic sheathed cables smaller than two #6 or three #8 shall either be run through bored holes in joists or on running boards.
- (6) All nonmetallic- sheathed cable requires an equipment grounding conductor within the cable.
- (7) All nonmetallic- sheathed cable shall be rated 90 deg.c and the ampacity shall be that of 60 deg.c.
- (8) All recessed fixtures shall be properly installed, be of proper construction and provide adequate clearances. This includes combination fan/light units.
- (9) All recessed incandescent fixtures shall have thermal protection and be so identified. This includes combination fan/light units as per State of Michigan, Electrical Administrative Board letter dated 4/20/88.
- (10) All florescent fixtures installed indoors shall have thermal protection integral within the ballast.
- (11) Branch circuit conductors supplying a single motor shall have an ampacity not less than 125% of the motor full load current rating.
- (12) Proper thermal overload protection shall be required for all motors.
- (13) Motors shall have proper short circuit and ground fault (overcurrent) protection using 250% rule maximum for breakers and 300% rule maximum for fuses. Therefore, all motors 6 full load amps or less on breaker circuits or 5 full load amps or less on breaker circuits shall require 15 amp maximum overcurrent protection .
- (14) A disconnecting means shall be located in sight from the motor location and the driven machinery location and each motor shall be provided with an individual disconnecting means.

in horsepower, a circuit breaker, or a molded case switch (nonautomatic circuit interrupter) and for a cord and plug connected motor, a horsepower rated attachment plug and receptacle.

- (16) Nonmetallic-sheathed cable shall be secured in place at intervals not exceeding 4-1/2 feet and within 12 inches from every cabinet, box or fitting.

- (17) A branch circuit supplying a fixed storage type water heater having a capacity of 120 gallons or less or any appliance that is continuously loaded shall have a rating not less than 125% of the nameplate rating of the water heater or appliance.

(18) All sub-panels fed with a non-metallic wiring system shall require a cable with a equip. grounding conductor. A grounding connection shall not be made to any grounded (neutral) conductor on the load side of the service disconnecting means. Likewise, feeders to ranges and dryers fed from sub-panels shall require separate equip. grounding conductors in nonmetallic cables.

(19) Receptacle outlets serving countertops in kitchen, dining, island, or peninsular areas shall be located so that no point is more than 24" from a receptacle and be installed above or within 12" of countertop.

(20) Proper service bonding req'd.

(21) No wiring systems of any type shall be installed in ducts used to transport dust, loose stock or flammable vapor.

(22) Outlet boxes shall not be used as the sole support for ceiling (paddle) fans.

(23) Junction, pull and outlet boxes shall be accessible.

(24) Fixtures in clothes closets shall have proper clearance from combustibles. Incandescent fixtures with open or partially enclosed lamps shall not be permitted.

(25) Hydromassage bathtubs and their associated electric components shall be supplied by a circuit with GFIC protection.

(26) A receptacle is required within 25 ft. of each heating, air conditioning and refrigeration unit.

(27) Openings around electrical penetrations through fire resistance rated walls, partitions, floors, or ceilings shall be firestopped using approved methods to maintain the fire resistance rating.

(28) Boxes used at lighting fixture outlets shall be designed for the purpose. Switch boxes shall not be used for support of fixtures.

(29) Horsepower and/or full load amp rating, voltage and phase shall be required for motors to verify proper conductor size, overload and overcurrent protection, ect.

C. Floor Plan

- (1) Switchboards or panelboards in wet locations or outside of a building shall be enclosed in a waterproof enclosure or cabinet.
- (2) Fixtures in wet, damp or corrosive locations or in ducts or hoods shall be suitable for such locations and so marked.

- (3) Three-way and four-way switches shall be so wired that all switching is done only in underground circuit conductor. Switches or circuit breakers shall not disconnect the grounded conductor of a circuit.

D. Panel Schedule

- (1) A fuse or circuit breaker shall be connected in series with ea. ungrounded conductor and a circuit breaker shall open all ungrounded conductors of the circuit.

B. Service Riser Diagram

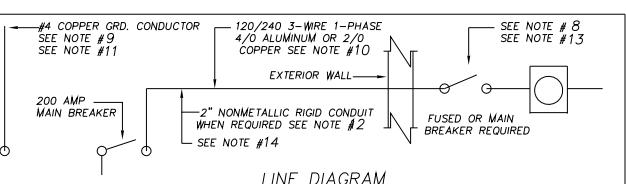
- (1) Amp rating, voltage, phase and number of conductors required for the service. Only 200 amp service panel noted.
- (2) Proper wire type and size and conduit size required for service entrance conductors.

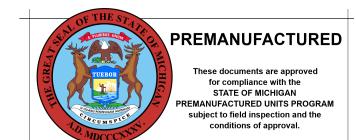
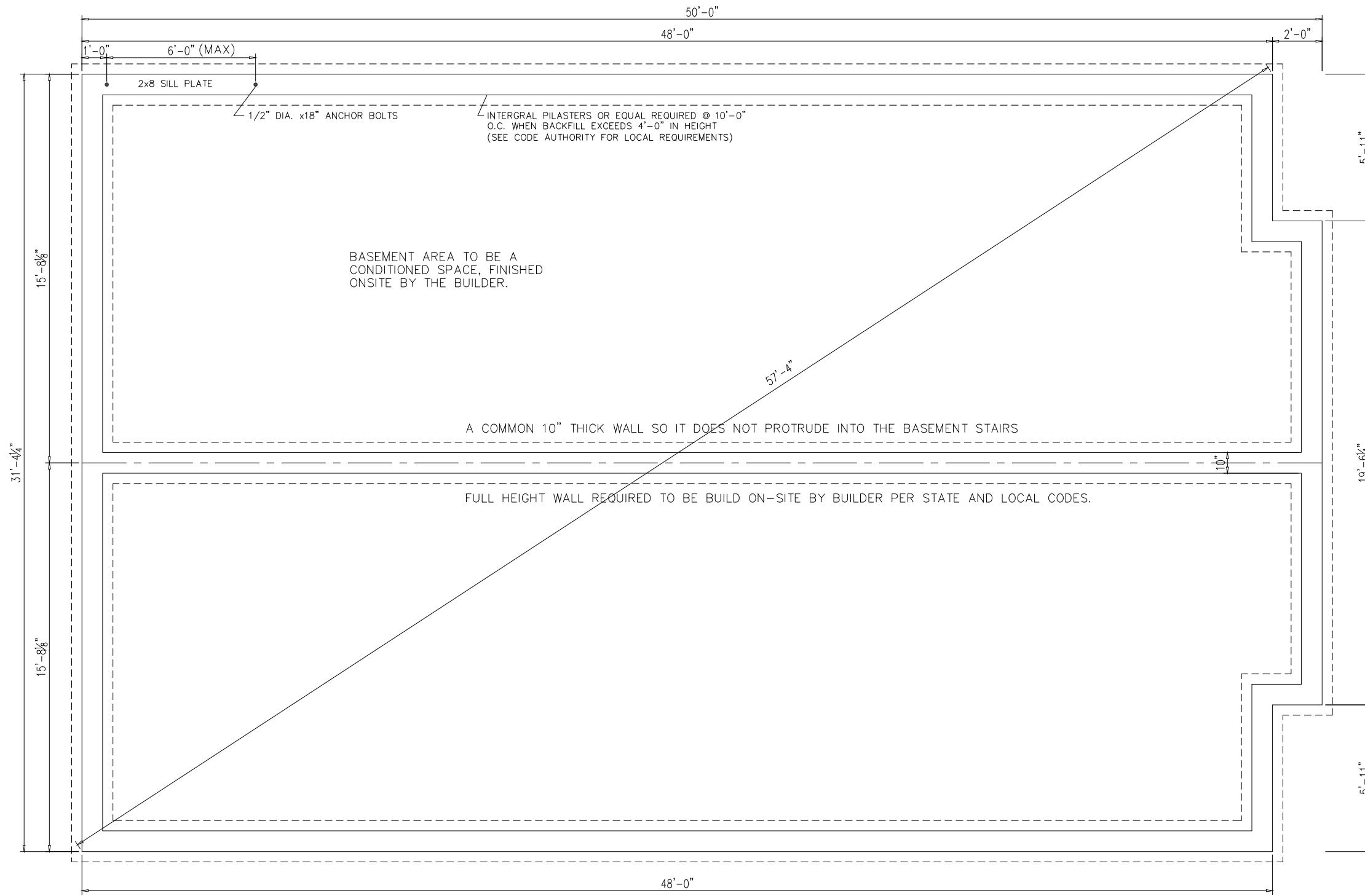
- (E) (1) Service equipment shall be suitable for the short circuit (fault) current available at its supply terminal.

ALL 125 VOLT 15AMP AND 20AMP RECEPTACLES TO BE LISTED AS TAMPER RESISTANT



NOTES & SPECIFICATIONS





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MODIFICATIONS

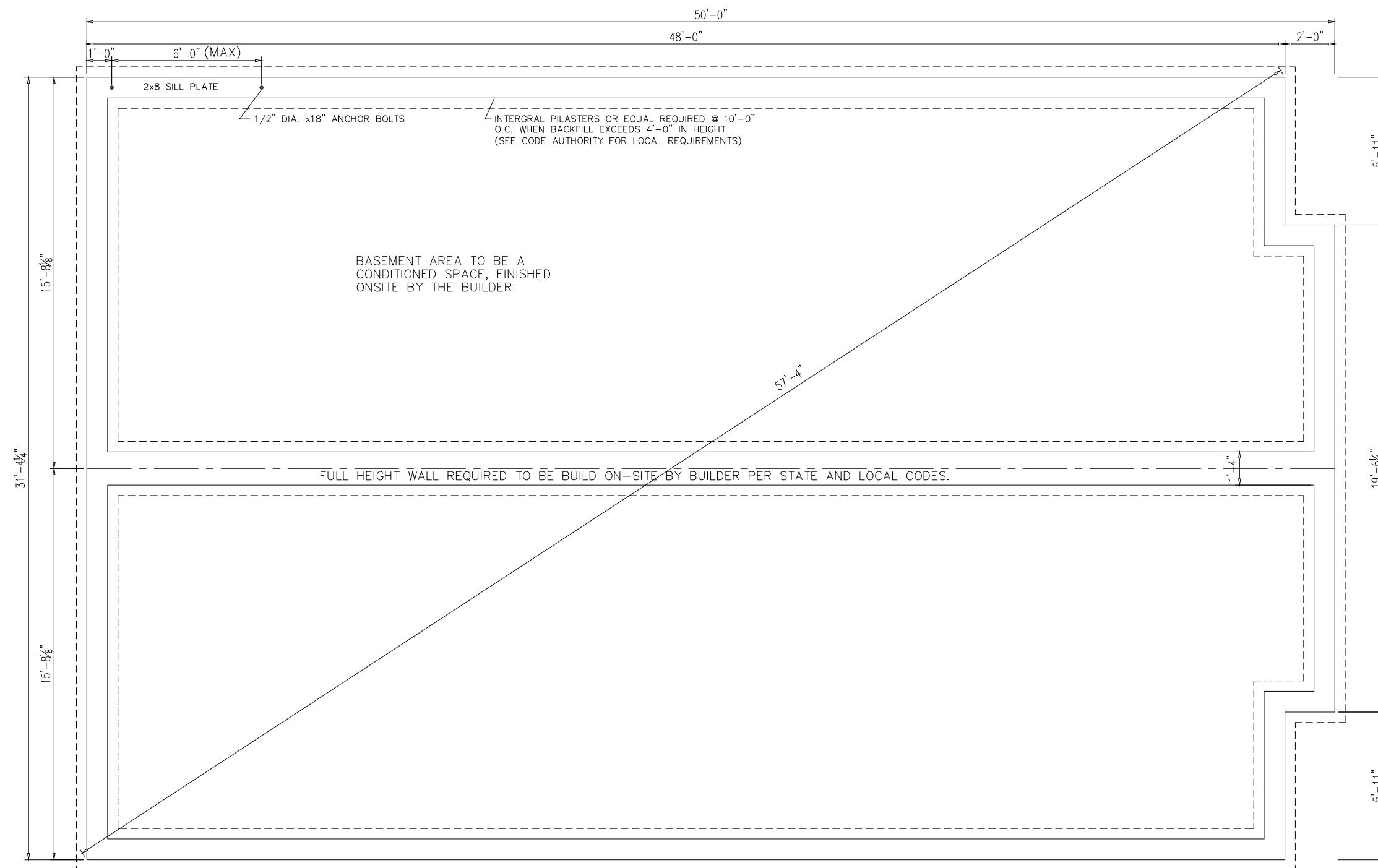
PROJECT:
44592
DUPLEX

TITLE:
FOUNDATION
PLAN

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 3/16" = 1'-0"
FILENAME: 44592 FN
FN

SHEET:
FOUNDATION

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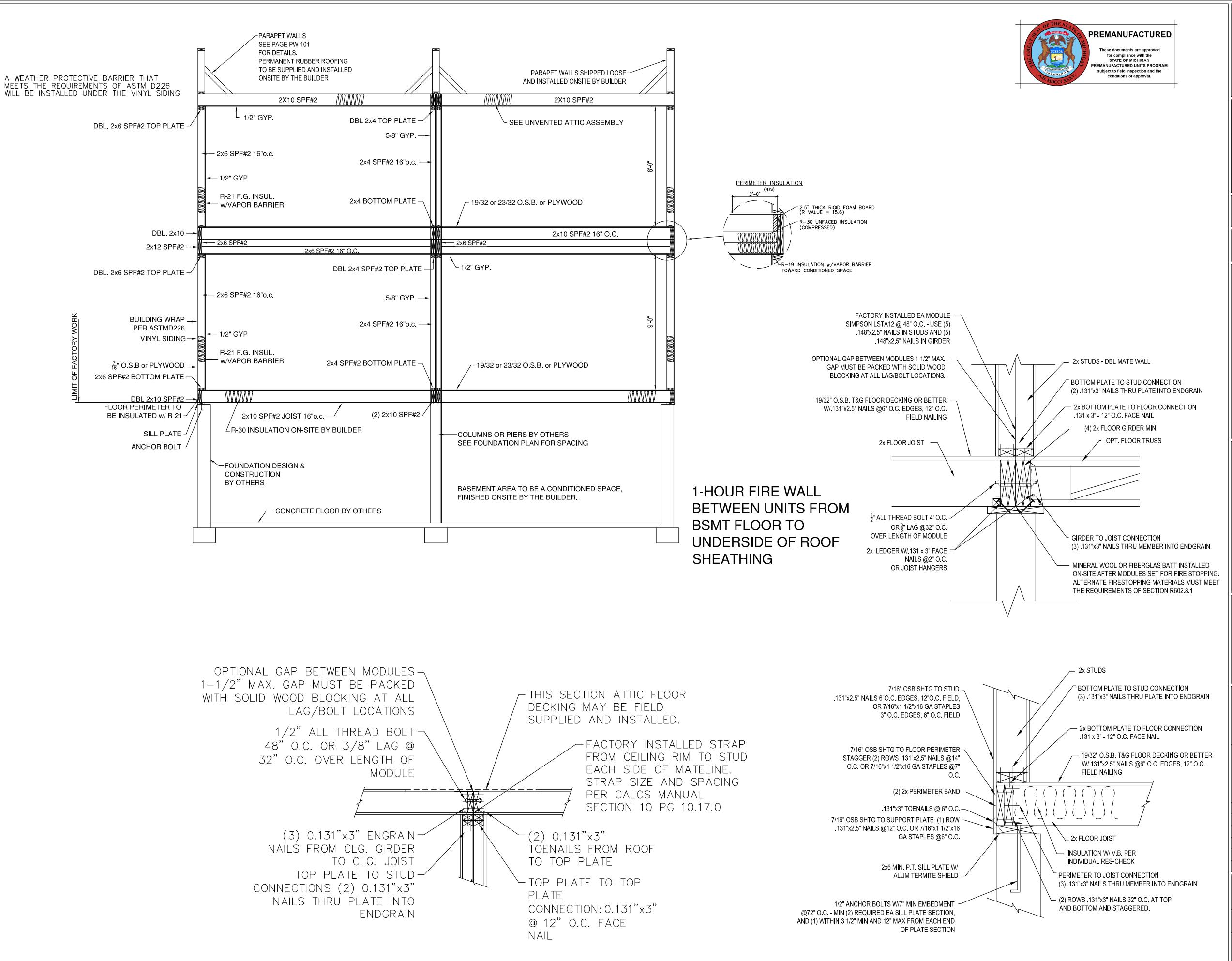
NOTES:

- 1) THIS FOUNDATION DRAWING AND NOTES ARE FOR REVIEW ONLY. ACTUAL FOUNDATION DESIGN SHALL BE DESIGNED FOR YOUR SPECIFIC SITE AS REQUIRED PER LOCAL CODE.
- 2) ALL CONSTRUCTION AND MATERIALS BELOW THE BOTTOM OF THE FLOOR JOISTS IS THE RESPONSIBILITY OF CHAMPION MODULAR'S BUILDER. FOUNDATION WALL, FOOTER, LOLLY COLUMNS & PADS ARE ALL TO BE DETERMINED ON-SITE IN ACCORDANCE WITH LOCAL CODES & CONDITIONS
- 3) REINFORCED MASONRY UNIT REQUIRED AT CENTER BEARING LOCATIONS.
- 4) LOLLY COLUMNS ARE TO BE SPACED ACCORDING TO SPAN SCHEDULE BASED ON TYPE OF HOUSE, LOCAL SNOW LOAD & WIDTH OF UNIT. ADD'L COLUMNS MAY BE REQ'D & ARE NOTED ON FLOOR PLAN. LOLLY COLUMN SPACING IS BASED ON MIN. 1/2"x6"x12" STEEL PLATE BETWEEN COLUMN & CENTER BEAM.
- 5) FOUNDATION IS TO BE CONSTRUCTED IN ACCORDANCE w/ALL APPLICABLE CODES.
- 6) FOUNDATION SIZES REFLECT WOOD TO WOOD DIMENSIONS OF MODULAR UNITS, ALLOWING SHEATHING AND SIDING TO OVERHANG THE FOUNDATION. IF STYROFOAM IS USED FOUNDATION MAY BE INCREASED IN LENGTH AND WIDTH TO ACCOMODATE.
- 7) PERIMETER FLOOR JOISTS TO BE ATTACHED TO SILL PLATE w/16d NAILS AT 16" O.C.
- 8) INSTALLATION OF WASHER, DRYER AND/OR WATER HEATER IN BASEMENT PER STATE AND LOCAL CODES IS THE RESPONSIBILITY OF MODULAR MANUFACTURERS, BUILDER.
- 9) SMOKE DETECTORS IN BASEMENT SHALL BE THE RESPONSIBILITY OF THE BUILDER TO PROVIDE AND INSTALL. (COIL WIRE IN BSMT BY MODULAR MANUFACTURER, INC)
- 10) CRAWL SPACE FOUNDATION REQUIRES A MINIMUM 18"x24" ACCESS OPENING, INSECT & RODENT PROOF CROSS VENTS WITHIN 3' OF CORNERS AND PROVIDE 1/150 OF FLOOR AREA WITH VENTILATION.
- 11) SEE MODULAR MANUFACTURERS' SUBMISSION SET-PAGE FOR ADDITIONAL NOTES AND DETAILS.
- 12) GFCI RECEPT AND LIGHTS FOR BASEMENT AND CRAWLSPACES PER ALL STATE AND LOCAL CODES
- 13) BACKFILLING AND TAMPING TO BE DONE PER LOCAL REQUIREMENTS



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APPROVERS SEAL	
MODIFICATIONS	
PROJECT:	44592 DUPLEX
TITLE:	FOUNDATION PLAN
DRAWN BY: MAB	
DATE: 06-15-23	
SCALE: 3/16" = 1'-0"	
FILENAME: 44592 FN	
FN	
SHEET:	FOUNDATION
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MODIFICATIONS

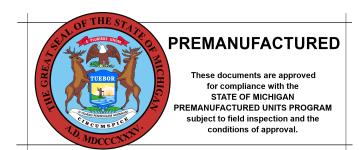
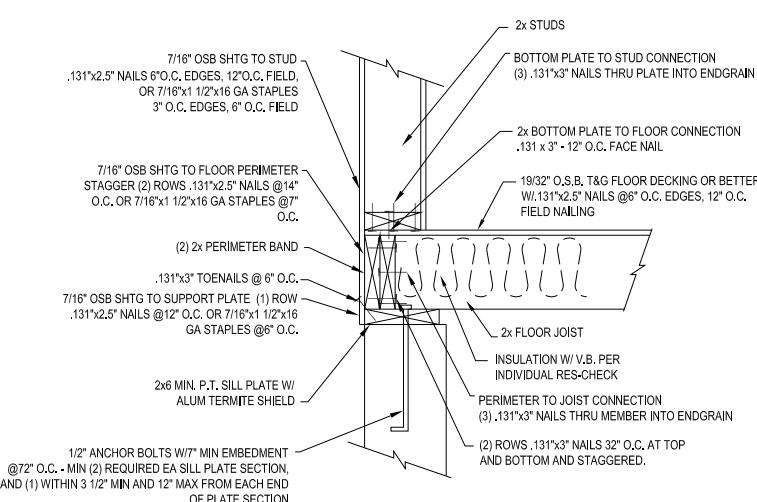
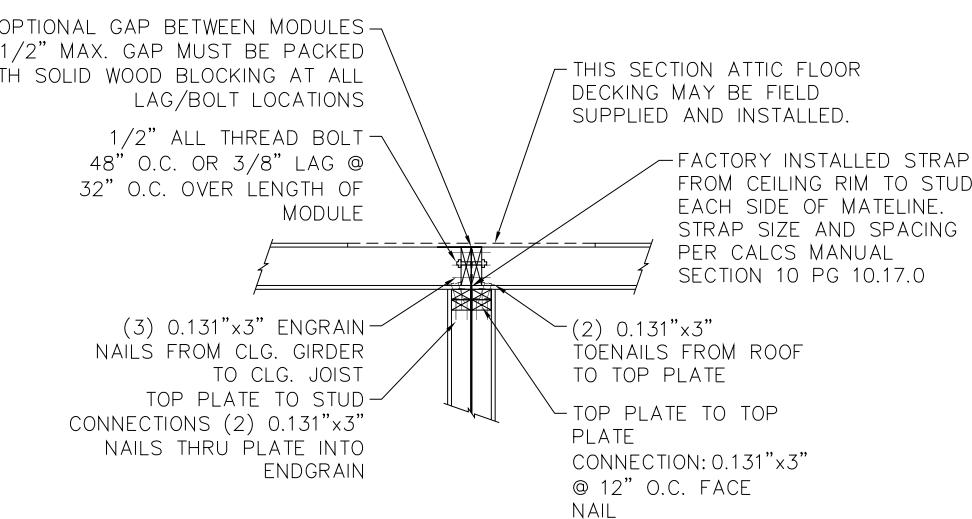
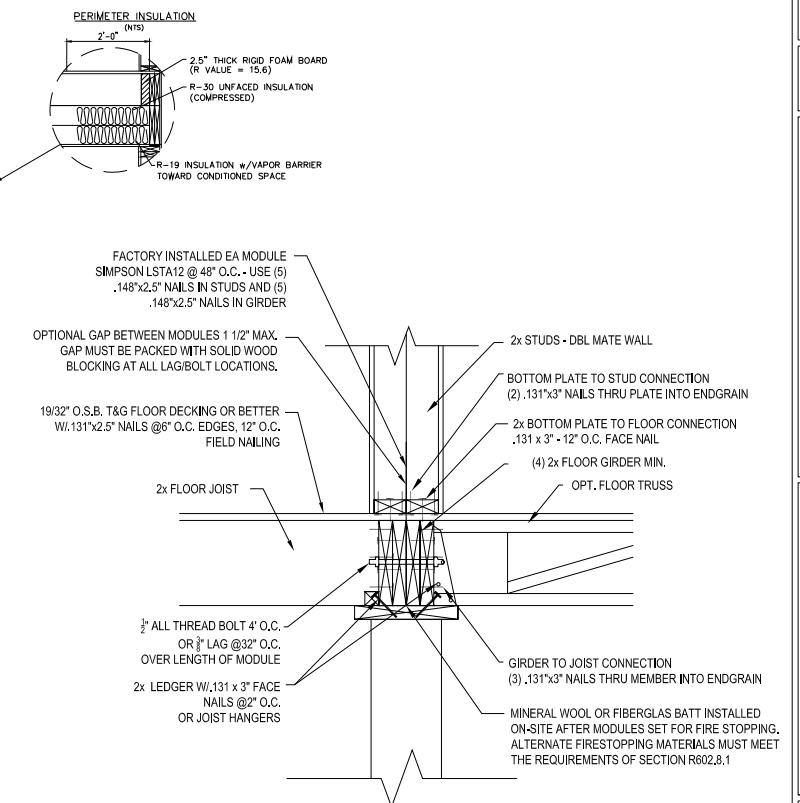
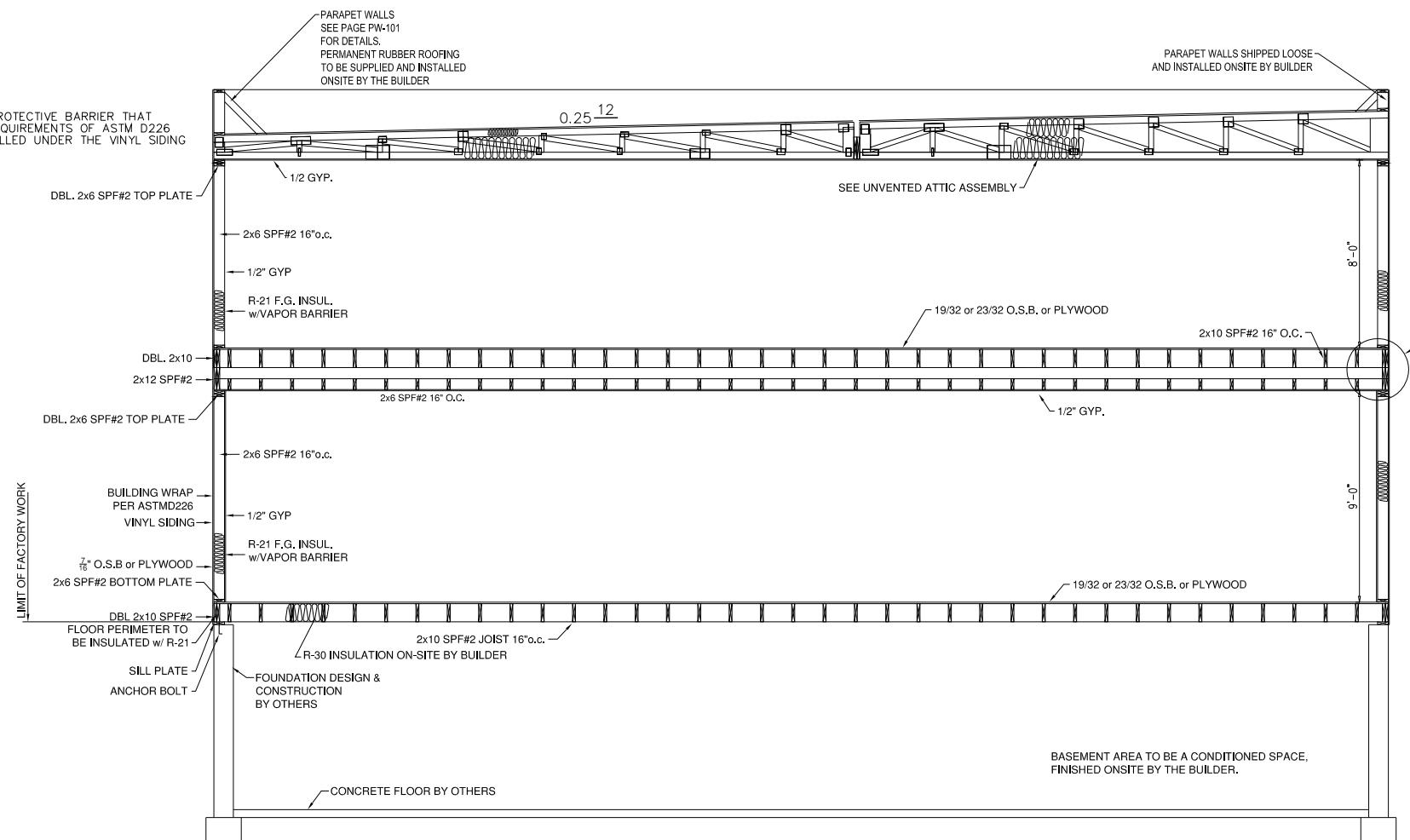
PROJECT:
44592 DUPLEX

TITLE:
SECTIONS

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 1/8" = 1'-0"
FILENAME: 44592.FN
FN

SHEET:
SECTION (2)

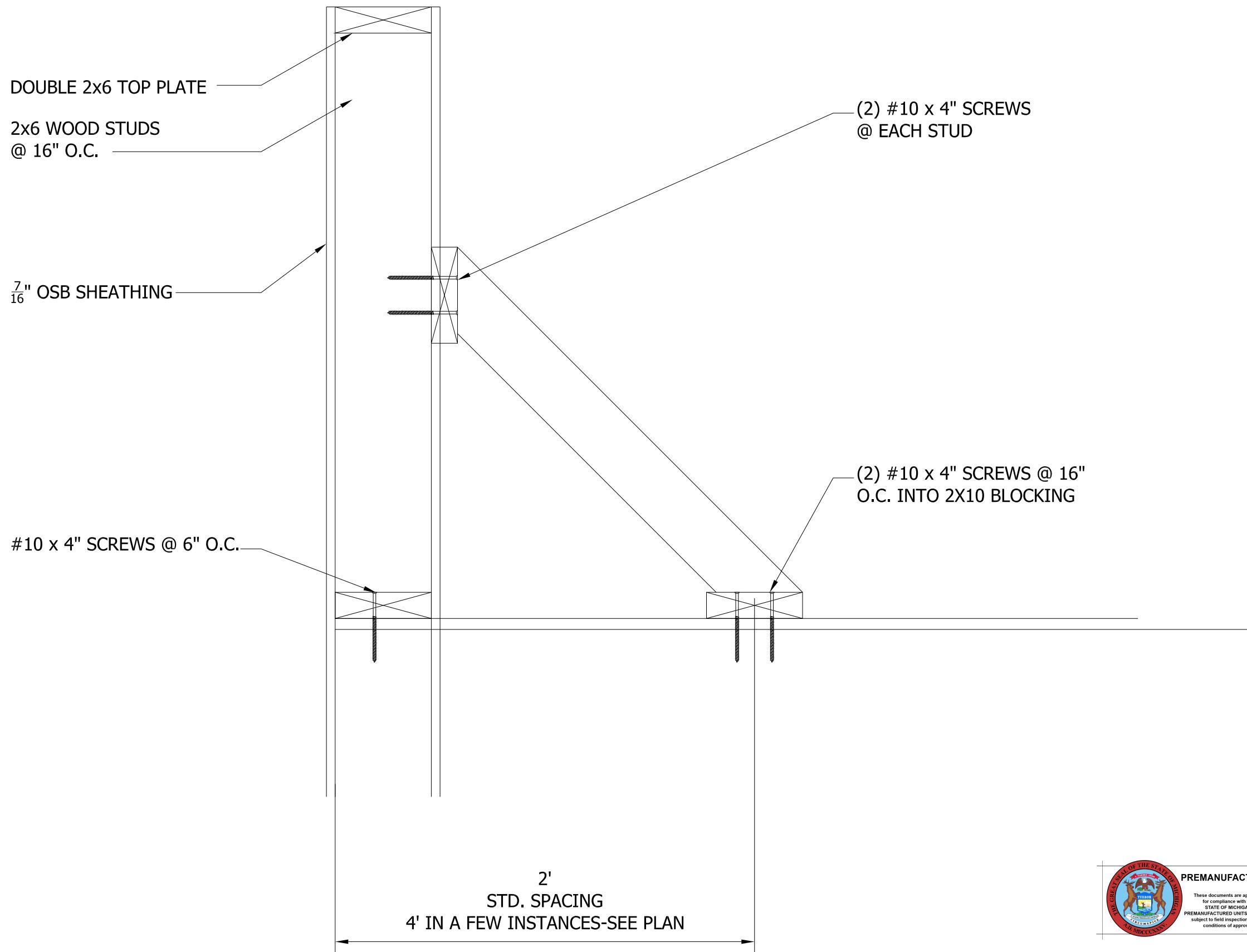
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PLANT AND INSTALLED ON SITE.
WALLS TO BE ON FRONT AND SIDES
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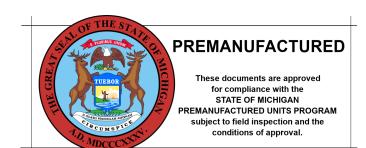
MODIFICATIONS

PROJECT:
44592 DUPLEX

TITLE:
PARAPET WALL DETAIL

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 1/8" = 1'-0"
FILENAME: 44592.FN
FN

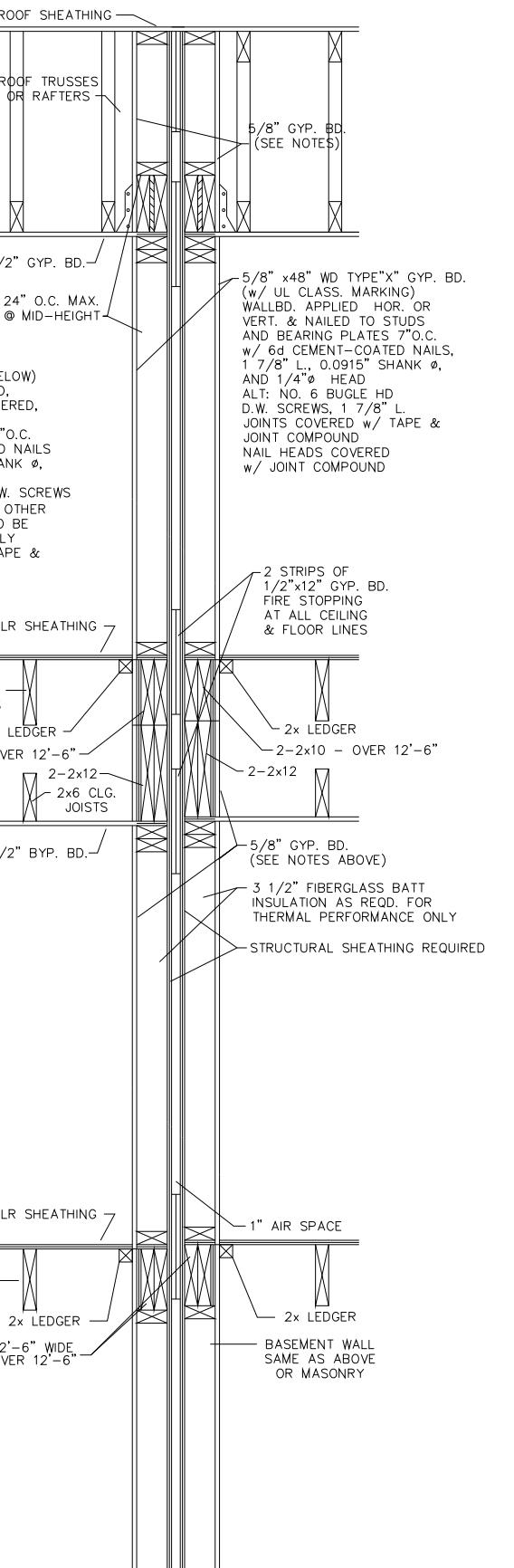
SHEET:
PARAPET



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ONE HOUR FIRE SEPARATION WALL

DESIGN NUMBER— U341
STC RATING— 46



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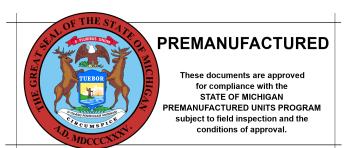
MODIFICATIONS

PROJECT:
44592
DUPLEX

TITLE:
**FIRE SEPARATION
WALL DETAIL**

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 1/8" = 1'-0"
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FIRE DET



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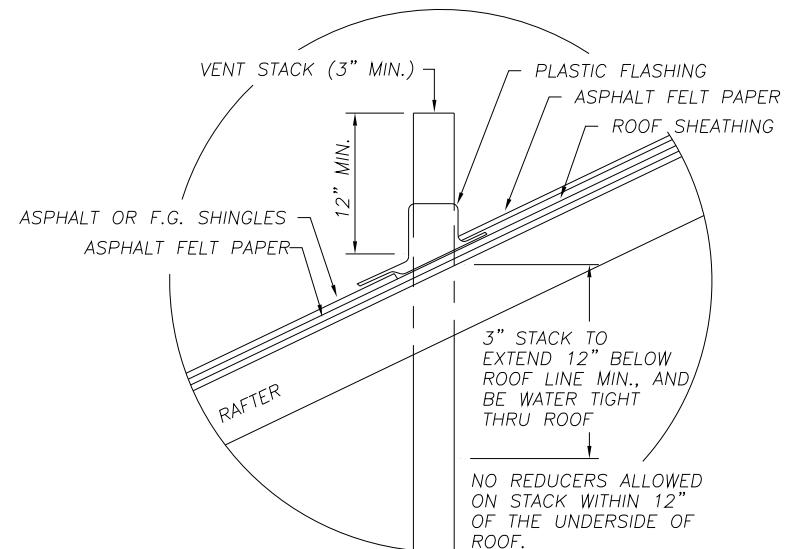
BUILDING CODE REVIEW 2015 MICHIGAN RESIDENTIAL CODE

1. STAIR HANDRAILS SHALL BE MOUNTED 34"-38" ABOVE STAIR. HANDRAILS SHALL BE RETURNED TO A WALL OR POST. SECTION R311.7.8
2. OPEN GUARDRAILS SHALL HAVE BALUSTERS OR OTHER CONSTRUCTION TO PREVENT PASSAGE OF A 4" DIAMETER SPHERE. SECTION R312.1.3
3. A SMOKE DETECTOR SHALL BE PROVIDED IN EACH SLEEPING AREA, OUTSIDE OF EACH SEPARATE SLEEPING AREA, AND EACH ADDITIONAL FLOOR, INCLUDING THE BASEMENT (IF APPLICABLE) IN SUCH A MANNER THAT ACTUATION OF ONE WILL ACTUATE ALL DETECTORS. SECTION R314.3
4. SLEEPING ROOMS AND BASEMENT WITH HABITABLE SPACE SHALL HAVE EGRESS WINDOWS. SECTION R311
5. ENTRANCE DOOR SIDE LIGHTS SHALL BE SAFETY GLAZED(IF APPLICABLE) SECTION R308.4.2
6. ALL FLUE CHASES ARE TO BE FIRESTOPPED AT BOTH FLOOR LEVEL AND CEILING LEVEL. SECTION R1003.20
7. A READILY-ACCESSIBLE OPENING NOT LESS THAN 22"x30" SHALL BE PROVIDED TO ANY ATTIC AREA HAVING A CLEAR HEIGHT OF OVER 30". SECTION R807
8. VENTILATION IS TO BE PROVIDED IN ATTIC AREA PER SECTION R806
9. SKYLIGHT APPLICATIONS SHALL COMPLY WITH SECTION R308.6
10. THE FLOOR CUT-OUT FOR THE BATHTUB PLUMBING LINES SHALL BE FIRESTOPPED. SECTION R302.11 AND SECTION 602.8
11. ALL TRUSSES, RAFTERS, AND JOISTS BEARING ON A SINGLE TOP PLATE MUST BE CENTERED OVER STUD, PLUS OR MINUS 1". A SINGLE TOP PLATE USED IN BEARING WALLS SHALL BE ADEQUATELY TIED AT JOISTS, CORNERS, AND INTERSECTING WALLS BY AT LEAST THE EQUIVALENT OF GALVANIZED STEEL THAT IS 3"x6"x0.0036" THICK AND NAILED TO EACH WALL BY (6) 8d NAILS ON EACH SIDE, OR THE EQUIVALENT, AND THE RAFTERS, JOISTS, OR TRUSSES ARE CENTERED OVER THE STUDS. SECTION R602.3.2
12. THE MINIMUM NET FREE AREA FOR ATTIC VENTILATION MUST BE PROVIDED PER SECTION R806.2
13. ALL SHINGLED ROOFS WITH A SLOPE OF LESS THAN 4:12 SHALL BE PROVIDED NOT LESS THAN (2) LAYERS OF TYPE 15 ASPHALT-SATURATED FELT UNDERLAYMENT PER SECTION R905.1.1
14. A ROOF ICE PROTECTION SHALL BE USED IN AREAS WHERE THE AVERAGE DAILY TEMPERATURE IN JANUARY IS 25°F OR LESS. SECTION
15. FIRESTOPPING PROVIDED AROUND ALL VENTS, PIPES, DUCTS, CHIMNEYS, AND FIREPLACES AT CEILING/FLOOR LEVELS PER SECTION R602.8 AND SECTION R302.11

MECHANICAL CODE REVIEW MICHIGAN

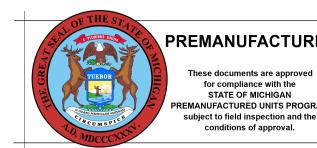
1. BATH EXHAUST-EXHAUST FROM EXHAUST FANS SHALL BE VENTED TO EXTERIOR AND TERMINATE AT A CAP. SECTION M1601.3
2. BATH EXHAUST-FLEXIBLE DUCTS SHALL CONFORM TO THE REQUIREMENTS OF UL 181 LISTED IN APPENDIX A FOR CLASS O OR CLASS I FLEXIBLE AIR DUCTS. SECTION M1601.1
3. BATHROOM EXHAUST-OUTSIDE AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY HAZARD OR NOXIOUS CONTAMINANTS SUCH AS VENTS, CHIMNEYS, PLUMBING VENTS AND EXHAUST FANS, UNLESS SUCH OPENING IS A MINIMUM OF 2 FEET BELOW THE CONTAMINANT SOURCE. SECTION M1804.2
4. MECHANICAL EXHAUST SYSTEMS SHALL BE REQUIRED FOR EACH NON-PUBLIC RESTROOM. PLEASE NOTE THAT A SOLID SOFFIT MATERIAL SHALL BE USED FOUR FEET ON EITHER SIDE OF EXHAUST CAP TERMINATION. SECTION 1804.2
5. EACH COMBUSTION AIR OPENINGS THROUGH A WALL OR HORIZONTAL DUCT SHALL HAVE AN UNOBSTRUCTED AREA EQUAL TO A MINIMUM OF 1 SQUARE INCH PER 2000 TRUE TOTAL INPUT RATINGS. SECTION M1703.2. EACH COMBUSTION AIR OPENING THROUGH A FLOOR, CEILING, OR VERTICAL DUCT SHALL HAVE AN UNOBSTRUCTED AREA EQUAL TO A MINIMUM OF 1 SQUARE INCH PER 4000 BTUH INPUT RATING. SECTION M1703.2
6. FLOOR REGISTERS SHALL NOT BE ALLOWED IN ANY OF THE FOLLOWING ROOMS: TOILET ROOMS, BATHROOMS, WASHROOMS, LAUNDRY ROOMS, UTILITY ROOMS, KITCHENS, OR BASEMENTS.
7. WIND LOADING DESIGN CRITERIA AS PER 1996 BNBC MICHIGAN AMENDMENTS PARTS 1,2,3, AND 4; REFERENCE THE FOLLOWING TABLE FROM 2015 MBC SECTION R301.2(4)A FOR EFFECTIVE WIND DESIGN. MINIMUM OF 90MPH FOR MICHIGAN.
8. SITE INSTALLED FIREPLACES SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. EXCEPTION: COMBUSTION AIR INTAKE MUST BE INSTALLED.
9. PLEASE SEE HVAC CALCULATIONS AND LAYOUT ON PAGES:

PLUMBING VENT THROUGH ROOF



NOTE: VENT THRU ROOF CONNECTION
TO BE COMPLETED IN FIELD BY OTHERS.

NOTES & SPECIFICATIONS



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MODIFICATIONS

PROJECT:

44592
DUPLEX

TITLE:

BUILDING NOTES &
MECHANICAL SPECS

DRAWN BY: MAB

DATE: 06-15-23

SCALE: 1/8" = 1'-0"

FILENAME: 44592 FN

FN

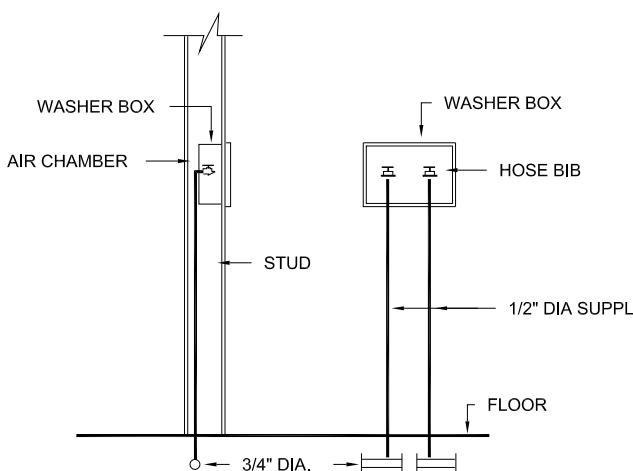
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BLDG-MECH

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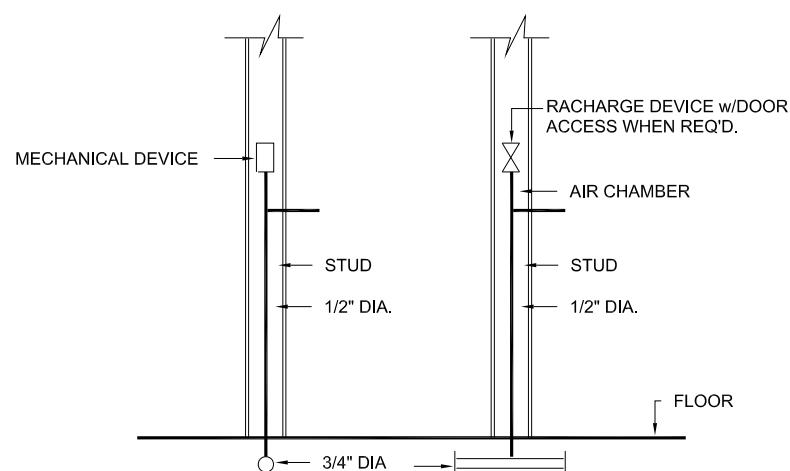
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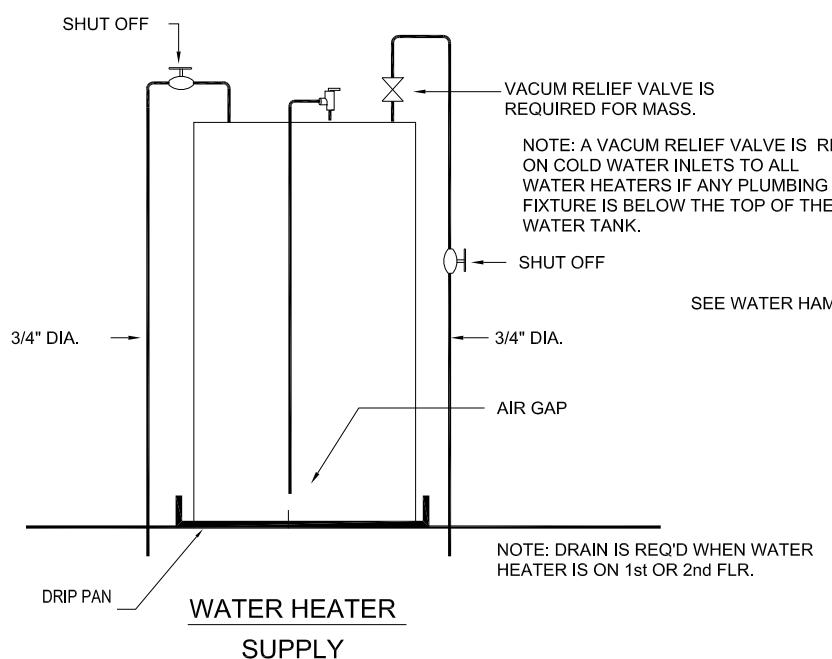
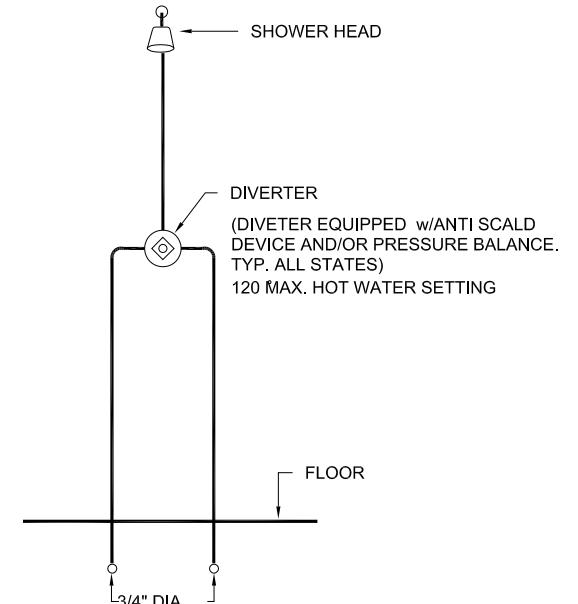
WASHER BOX

NOTE: THE PAN DRAIN SHALL EXTEND FULL-SIZE AND TERMINATE OVER A SUITABLY LOCATED INDIRECT WASTE RECEPTOR OR FLOOR DRAIN OR EXTEND TO THE EXTERIOR OF THE BUILDING AND TERMINATE NOT LESS THAN 6 INCHES OR MORE THAN 24 INCHES ABOVE THE ADJACENT GROUND SURFACE,(ON-SITE)

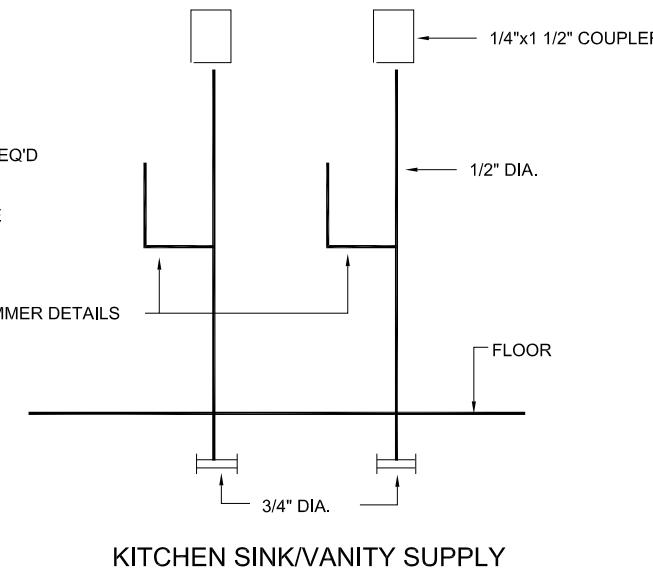


SUPPLY LINE DETAILS
WATER HAMMER

MECHANICAL DEVICES ARE TO BE USED WHERE HIGH WATER PRESSURE (70 psi) OR OR QUICK CLOSING FAUCETS & VALVES ARE INSTALLED TO PREVENT WATER HAMMER AND OBJECTIONABLE LINE NOISES. (WASHER, D/W & ICE MAKER) REQUIRED TO MEET ASSE 1010



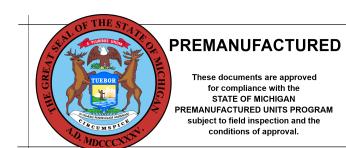
WATER HEATER
SUPPLY



KITCHEN SINK/VANITY SUPPLY

WATER SUPPLY GENERAL NOTES

1. PIPING IS CPVC OR PEX WITH APPROVED FITTINGS.
2. CONNECTIONS OF CPVC ARE MADE USING AN APPROVED PRIMER AND SOLVENT CONFORMING TO ASTM 493. (NO SLIP JOINT FITTING ARE TO BE USED)
3. HORIZONTAL AND VERTICAL PIPING IS TO BE SUPPORTED AT 3' O.C.
4. DISCHARGE TUBES FROM RELIEF VALVES ARE RUN FULL SIZE TO THE OUTLET. VALVES ARE NOT PERMITTED IN RELIEF VALVE DISCHARGE PIPES.
5. MAIN INLET AND WATER HEATER INLET ARE INSTALLED WITH FULL OPEN VALVES.
6. ALL FIXTURES ARE CONNECTED WITH APPROVED SHUT-OFFS.
7. EXTERIOR FAUCETS SHALL BE PROTECTED BY AN APPROVED VACUUM BREAKER.
8. TUBS AND SHOWERS ARE EQUIPPED WITH CONTROL VALVES OF THE BALANCE TYPE, CAPABLE OF LIMITING WATER TEMPERATURE TO A HIGH OF 120 DEGREES.
9. DISHWASHERS, WASHER, AND LAVS ARE EQUIPPED WITH WATER HAMMER ARRESTORS. MECHANICAL ARRESTORS ARE USED ON QUICK CLOSING DEVICES AS REQUIRED BY THE RESPECTIVE CODE.
10. PIPE MAY BE DELETED AND INSTALLED ON-SITE BY THE BUILDER IN ACCORDANCE WITH THE LOCAL JURISDICTION.
11. WATER HAMMER ARRESTORS MUST CONFORM TO ASSE 1010 AND BE INSTALLED IN ACCORDANCE WITH THEIR LISTINGS. ACCESS SHALL BE PROVIDED TO ALL ARRESTORS.
12. EXTERIOR FAUCET SHUT OFF VALVES LOCATED IN EITHER THE CRAWLSPACE, OR IN A BASEMENT, SHALL BE IDENTIFIED BY A SELF ADHESIVE LABEL OR A STRING TAG. THE LABEL SHALL READ "SHUT-OFF FOR EXTERIOR FAUCET".
13. IN CONCEALED LOCATIONS, WHERE PIPING IS INSTALLED THROUGH HOLES OR NOTCHES IN STUD, JOISTS, RAFTERS, OR SIMILAR MEMBERS LESS THAN 1 1/2" FROM THE NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE A MINIMUM OF 0.0575" THICK STEEL, SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS OR BORED AND SHALL EXTEND A MINIMUM OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES.
14. ACCESS AT WHIRLPOOL TUB PUMP SHALL BE THRU A 12"x12" MIN. OPENING. IF PUMP IS MORE THAN TWO FEET FROM THE ACCESS PANEL, THE OPENING MUST BE A MIN. OF 18"x18". (IF APPLICABLE)
15. WHEN HOME IS PLACED ON UNHEATED FOUNDATIONS THERE MUST BE ON-SITE PROVISIONS TO PREVENT FREEZING OF WATER SUPPLY AND DWV MUST BE SUPPLIED AND INSTALLED ON-SITE BY OTHERS.
16. NO LUMBER MAY BE NOTCHED, BORED, OR CUT IN THE FIELD UNLESS IN ACCORDANCE WITH THE CODE AUTHORITY.
17. A 1 1/2" WATER SUPPLY SHALL SUPPLY ONLY (1) FIXTURE.
18. ACCESS FOR TUB MOTORS SHALL BE PROVIDED WHERE APPLICABLE.



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PROJECT:
44592
DUPLEX

TITLE:
PLUMBING RISER
MECHANICAL Specs
DIAGRAM

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 1/8" = 1'-0"
FILENAME: 44592 FN
FN

SHEET:
PL1

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MODIFICATIONS

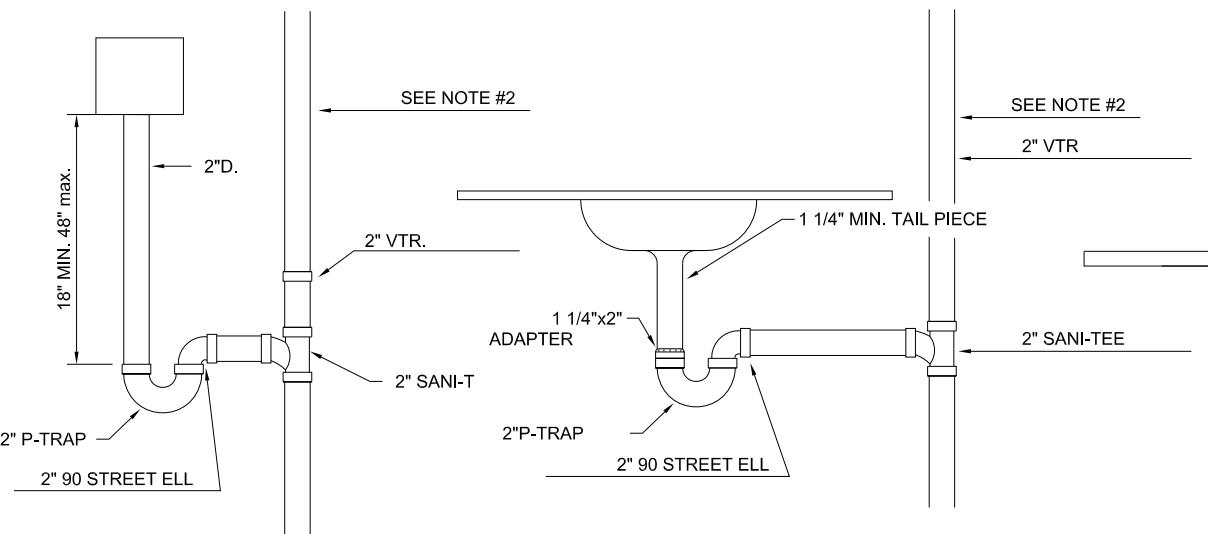
PROJECT:
44592 DUPLEX

TITLE:
TYPICAL PLUMBING

DRAWN BY: MAB
DATE: 06-15-23
SCALE: 1/8" = 1'-0"
FILENAME: 44592 FN
FN

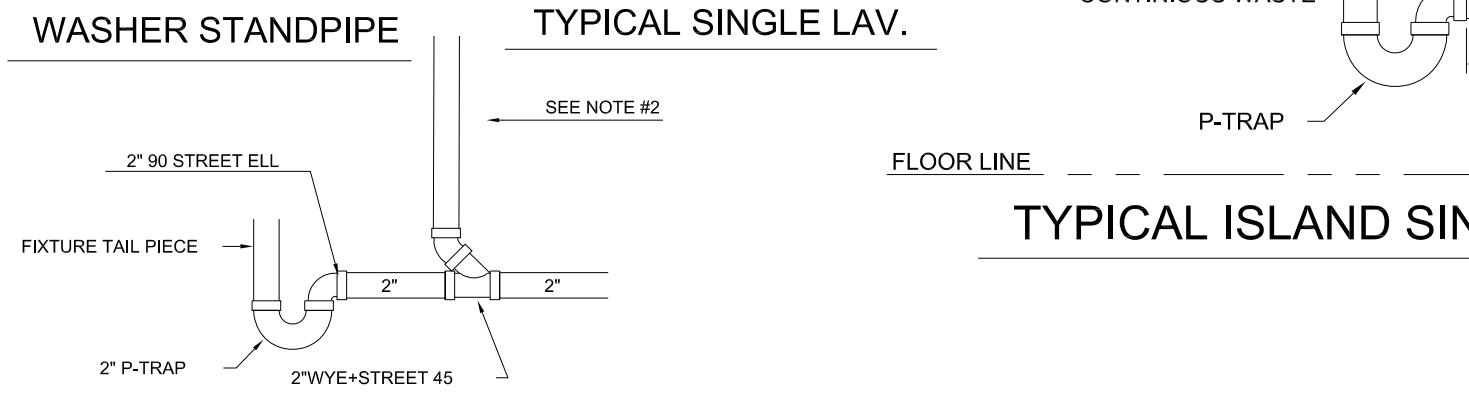
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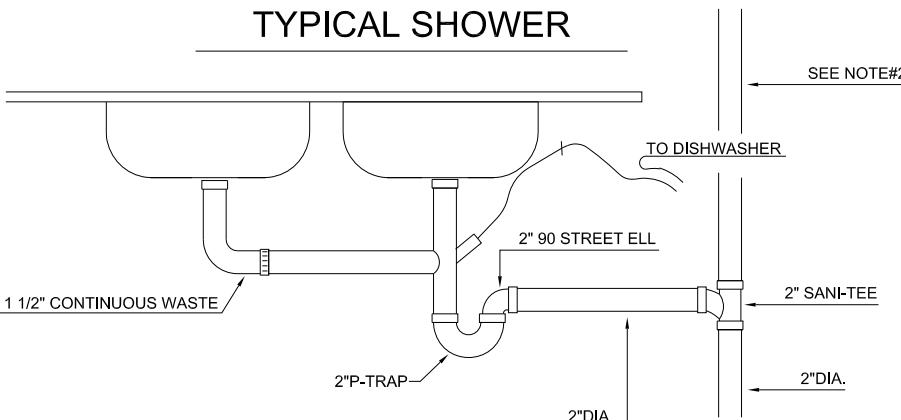


WASHER STANDPIPE

TYPICAL SINGLE LAV.



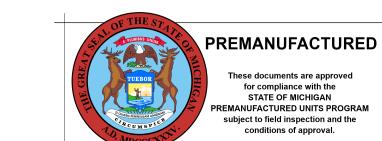
TYPICAL SHOWER



**TYPICAL KITCHEN SINK
w/OPT. DISHWASHER**

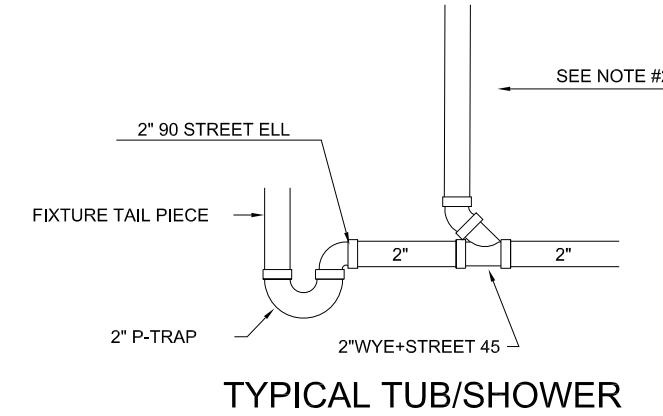
NOTES:

- 1.) ONE 2" DIA. FUTURE VENT REQ'D AND MUST BE TAGGED & PLUGGED.
- 2.) THIS VENT CONNECTS TO 3" MAIN VENT WITH 3x3x1 1/2" TEE
- 3.) ANTI-SCALD DEVICES MUST BE INSTALLED ON ALL TUBS & SHOWERS PER STATE CODE.
- 4.) FIRESTOPPING PROVIDED AROUND ALL VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING/FLOOR LEVELS
- 5.) ALL WET VENTS SHALL BE 2" MIN.
- 6.) ALL WATER CLOSETS SHALL HAVE A MIN. 2" VENT.

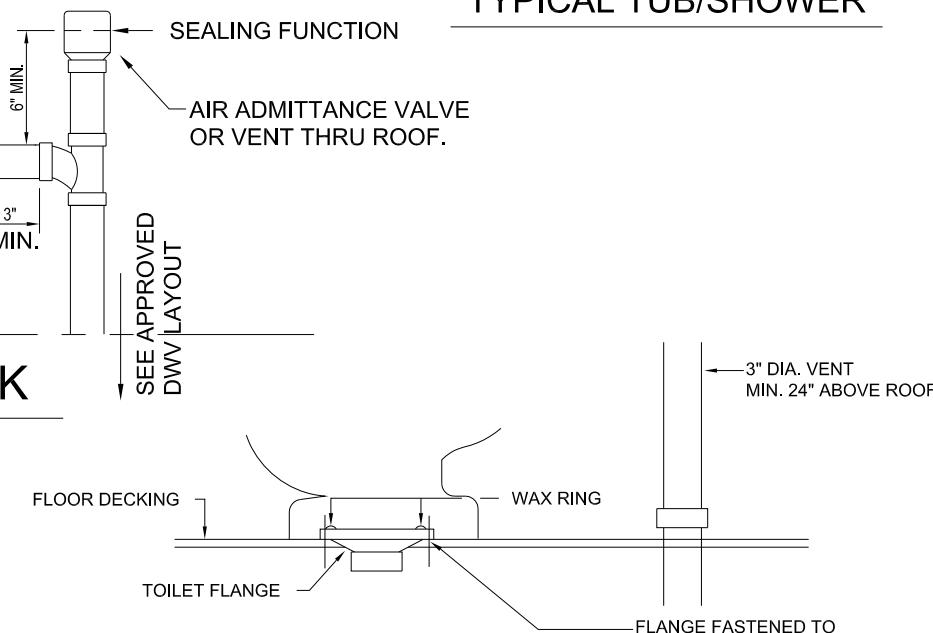


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TYPICAL TUB/SHOWER



TYPICAL ISLAND SINK

MAIN VENT AND WATER CLOSET
MAIN VENT MUST EXTEND 2' ABOVE ROOF MIN.

5.) ALL WET VENTS SHALL BE 2" MIN.

6.) ALL WATER CLOSETS SHALL HAVE A MIN. 2" VENT.

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44592 WINDOW / DOOR SCHEDULE

MANUF. CODE	ROUGH OPENING	MANUF.	TYPE	REMARKS	"U"	AREA	SQ. FT. LIGHT	SQ. FT. VENT	CLEAR OPENING
3050	36 1/2" x 60 1/4"	ANDERSEN 100	SH	EGRESS	.30	15.27	11.95	6.06	33" x 26 7/16"
3056	36 1/2" x 66 1/4"	ANDERSEN 100	SH	EGRESS	.30	16.79	13.22	6.75	33" x 29 7/16"
32" HALF LITE	34 3/4" x 82 3/4"	PLASTPRO		EGRESS	.25	20	4.9	17.33	
36" HALF LITE	38 3/4" x 82 3/4"	PLASTPRO		EGRESS	.25	22.3	4.9	19.26	
36" W/1-14" SL	53 3/4" x 82 3/4"	PLASTPRO		EGRESS	.25	30.9	1.7	19.26	

APPROVERS SEAL

MODIFICATIONS

PROJECT:
44592 DUPLEX

TITLE:
WINDOW AND DOOR SCHEDULE

DRAWN BY: MAB

DATE: 06-15-23

SCALE: 1/8" = 1'-0"

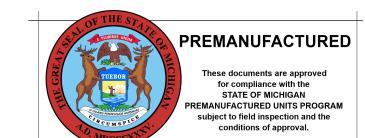
FILENAME: 44592 FN

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SHEET:

WIN-DR

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ELECTRIC LOAD CALCULATION

Manuf. *Champion Modular Inc.* **Date** 7/6/2023

QN # 44592 One unit only By DDC

<u>HEAT / COOLING LOADS</u>	Watts	Watts (Volt-Amps)
Air Conditioning (100%)*	By Bldr	By Bldr
Central Electric Space Heating (# of Watts x .65)*	0	0
Less Than 4 Separately Controlled Electric Space Heating Units (# of Watts x .65)	0	0
Four or More Separately Controlled Electric Space Heating Units (# of Watts x .40)	0	0

* Use the larger of the Air-Conditioning Load or
The diversified demand of the heating load

<u>OTHER LOADS</u>		Watts	Ampacity	Wire Size
General Lighting	1535 (sq. ft.) (x 3)	4605	15A	14-2
Small Appliances	3 (# of circuits) (x 1500)	4500	20A	12-2
Laundry		1500	20A	12-2
Furnace		By Bldr	By Bldr	By Bldr
Optional Dryer		5000	30A	10-3
Optional Water Heater		4500	25A	10-2
Optional Range (8KW Max. - Tab. 220-19)		8000	40A	8-3
Optional Dishwaher		1035	20A	12-2
Optional Garbage Disposal		575	15A	14-2
Opt.				
	Subtotal:	29715		
	First 10KW of subtotal at 100%	10,000		
	Remainder at 40%	7886		
	Total Calc. Load	17,886		
	Req'd Service (T.C.L./240)	74.525	AMPS	
	Installed Service	200	AMPS	



PREMANUFACTURED
These documents are approved
for compliance with the
STATE OF MICHIGAN
PREMANUFACTURED UNITS PROGRAM
subject to field inspection and the
conditions of approval.



Generated by **REScheck-Web** Software

Compliance Certificate

Project 44592



Energy Code: **2018 IECC**
Location: **Flint, Michigan**
Construction Type: **Single-family**
Project Type: **New Construction**
Conditioned Floor Area: **3,088 ft²**
Glazing Area **12%**
Climate Zone: **5 (6979 HDD)**
Permit Date:
Permit Number:

Construction Site:
309 WEST 5TH AVE.
FLINT, MI 48502

Owner/Agent:
INNOVALAB DEVELOPMENT GROUP,
LLC.
6610 EGYPT RIDGE ROAD NE
ROCKFORD, MI 49341

Designer/Contractor:
CHAMPION MODULAR, INC.
10642 SOUTH SUSQUEHANNA
LIVERPOOL, PA 17045

Compliance: Passes using UA trade-off

Compliance: **1.7% Better Than Code** Maximum UA: **419** Your UA: **412**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules.
It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Ceiling: Flat Ceiling or Scissor Truss	1,544	45.0	0.0	0.027	0.026	42	40
Exterior Walls: Wood Frame, 16" o.c.	2,766	21.0	0.0	0.057	0.060	133	140
Doors: Glass Door (over 50% glazing)	146			0.250	0.300	37	44
Windows: Vinyl Frame	291			0.280	0.300	81	87
Perimeter Bands clg/flr: Wood Frame, 16" o.c.	298	15.6	0.0	0.076	0.060	23	18
Stair Walls: Wood Frame, 16" o.c.	521	13.0	0.0	0.082	0.060	40	29
Door: Solid Door (under 50% glazing)	33			0.140	0.300	5	10
Floor: All-Wood Joist/Truss	1,544	30.0	0.0	0.033	0.033	51	51

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2018 IECC requirements in REScheck Version : REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Doug Cramer
Name - Title

Doug Cramer
Signature

7/7/23
Date



Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.1, 103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
302.1, 403.7 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr _____ Cooling: Btu/hr _____	Heating: Btu/hr _____ Cooling: Btu/hr _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Foundation Inspection	Complies?	Comments/Assumptions
303.2.1 [FO11] ² 	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.9 [FO12] ² 	Snow- and ice-melting system controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4 [FR1] ¹ 	Door U-factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹ 	Glazing U-factor (area-weighted average).	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹ 	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.1.1 [FR23] ¹ 	Air barrier and thermal barrier installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.3 [FR20] ¹ 	Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤ 2.0 cfm leakage at 75 Pa.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.1 [FR12] ¹ 	Supply and return ducts in attics insulated $\geq R-8$ where duct is ≥ 3 inches in diameter and $\geq R-6$ where < 3 inches. Supply and return ducts in other portions of the building insulated $\geq R-6$ for diameter ≥ 3 inches and R-4.2 for < 3 inches in diameter.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.2 [FR13] ¹ 	Ducts, air handlers and filter boxes are sealed with joints/seams compliant with International Mechanical Code or International Residential Code, as applicable.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.5 [FR15] ³ 	Building cavities are not used as ducts or plenums.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4 [FR17] ² 	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to $\geq R-3$.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4.1 [FR24] ¹ 	Protection of insulation on HVAC piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.3 [FR18] ² 	Hot water pipes are insulated to $\geq R-3$.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ² 	All installed insulation is labeled or the installed R-values provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.6 [IN1] ¹ 	Floor insulation R-value.	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.8 [IN2] ¹ 	Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN3] ¹ 	Wall insulation R-value. If this is a mass wall with at least $\frac{1}{2}$ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹	Ceiling insulation R-value.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.3 [FI22] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.4 [FI3] ¹	Attic access hatch and door insulation \geq R-value of the adjacent assembly.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.1.2 [FI17] ¹	Blower door test @ 50 Pa. \leq 5 ach in Climate Zones 1-2, and \leq =3 ach in Climate Zones 3-8.	ACH 50 =____	ACH 50 =____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.3 [FI27] ¹	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	____ ft^2 cfm/100	____ ft^2 cfm/100	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.4 [FI4] ¹	Duct tightness test result of \leq 4 cfm/100 ft ² across the system or \leq =3 cfm/100 ft ² without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	____ ft^2 cfm/100	____ ft^2 cfm/100	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at \leq =2% of design air flow.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits per Table R403.6.1.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2 [FI26] ²	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1.1 [FI28] ²	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermos-syphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1.2 [FI29] ²	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.2 [FI30] ²	Demand recirculation water systems have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to <= 104°F.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1 [FI6] ¹	90% or more of permanent fixtures have high efficacy lamps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1.1 [FI23] ³ 	Fuel gas lighting systems have no continuous pilot light.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
401.3 [FI7] ²	Compliance certificate posted.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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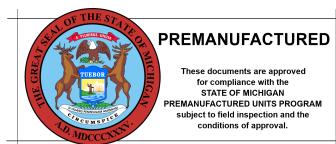


2018 IECC Energy Efficiency Certificate

Insulation Rating	R-Value	
Above-Grade Wall	21.00	
Below-Grade Wall	0.00	
Floor	30.00	
Ceiling / Roof	45.00	
Ductwork (unconditioned spaces):	_____	
Glass & Door Rating	U-Factor	SHGC
Window	0.28	
Door	0.25	
Heating & Cooling Equipment	Efficiency	
Heating System: _____	_____	
Cooling System: _____	_____	
Water Heater: _____	_____	

Name: _____ Date: _____

Comments



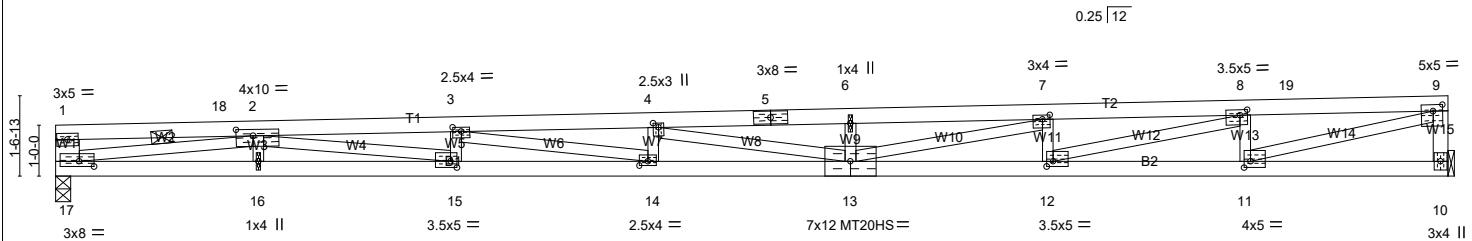
Job 113625	Truss SF400101	Truss Type SLOPING FLAT	Qty 1	Ply 1	CHAMPION HOMES 212
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UFP Industries Inc., Grand Rapids, MI 49525, Corey Daubert

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3-11-10 3-10-6 3-10-6 3-10-6 3-10-6 3-10-6 3-11-10



3-11-10 3-10-6 3-10-6 3-10-6 3-10-6 3-10-6 3-11-10

27-3-0

Plate Offsets (X,Y)-- [2:0-4-0-0-1-8], [3:0-2-0-0-1-0], [4:0-1-0-0-1-4], [7:0-1-12,0-1-0], [8:0-1-12,0-1-4], [9:0-2-4,0-1-8], [11:0-1-8,0-1-8], [12:0-1-8,0-1-4], [14:0-2-0-0-1-0], [15:0-1-8,0-1-8], [17:0-3-8,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.8 (Ground Snow=40.0)	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -1.02 13-14 >316 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -1.59 13-14 >203 180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.11 10 n/a n/a		
BCDL 10.0	Code IBC2015/TP12014	Matrix-R		Weight: 98 lb	FT = 0%

LUMBER-	BRACING-	
TOP CHORD 2x4 SPF No.2 *Except* T1: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 1-5-9 oc purlins, except end verticals.[P]
BOT CHORD 2x4 SP 2700F 2.2E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* W1: 2x6 SPF No.2, W15: 2x4 SPF No.2	WEBS	1 Row at midpt 2-17

REACTIONS. (lb/size) 17=910/0-3-8, 10=910/Mechanical

Max Horz 17=15(LC 9)

Max Uplift 17=-80(LC 8), 10=-80(LC 12)

Max Grav 17=1006(LC 18), 10=1006(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-219/34, 1-18=-771/59, 2-18=-766/60, 2-3=-6111/483, 3-4=-6800/538, 4-5=-6258/495, 5-6=-6255/495, 6-7=-6257/497, 7-8=-4924/392, 8-19=-2736/217, 9-19=-2732/218, 9-10=-930/90

BOT CHORD 16-17=-314/3850, 15-18=-314/3850, 14-15=-492/6108, 13-14=-546/6797, 12-13=-394/4920, 11-12=-218/2734, 10-11=-18/215

WEBS 2-16=-62/42, 3-15=-410/67, 4-14=-93/42, 6-13=-226/53, 7-12=-606/83, 8-11=-837/103, 2-17=-3152/249, 2-15=-182/2305, 3-14=-55/706, 4-13=-559/46, 7-13=-111/1388, 8-12=-184/2288, 9-11=-211/2655

NOTES-

1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 24-1-4, Exterior(2) 24-1-4 to 27-1-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) TCLL: ASCE 7-10; Pg=40.0 psf (ground snow); Ps=30.8 psf (roof snow); Category II; Exp B; Partially Exp.; Ct=1.10

3) Roof design snow load has been reduced to account for slope.

4) Unbalanced snow loads have been considered for this design.

5) Provide adequate drainage to prevent water ponding.

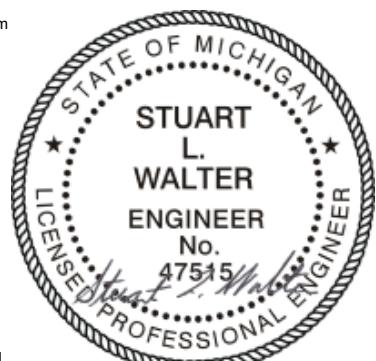
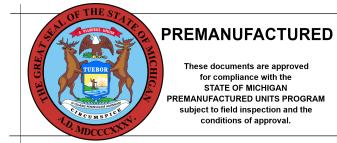
6) All plates are MT20 plates unless otherwise indicated.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 17 and 80 lb uplift at joint 10.

10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TP1 1.



The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

WARNING - Verify design parameters and READ NOTES

Truss shall not be cut or modified without approval of the truss design engineer.

This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TP1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\mitkSupp\templates\ufp.tpe

UFP Industries, Inc.
PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525



Job 113625	Truss SF400201	Truss Type SLOPING FLAT	Qty 1	Ply 1	CHAMPION HOMES 212
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UFP Industries Inc., Grand Rapids, MI 49525, Corey Daubert

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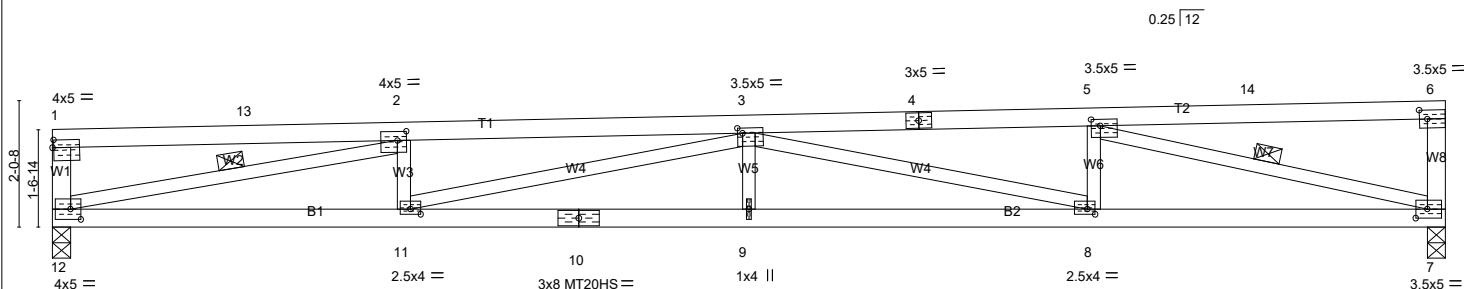
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5-8-2

5-6-14

5-6-14

5-8-2



5-8-2

5-6-14

5-6-14

5-8-2

22-6-0

Plate Offsets (X,Y)-- [1:0-0-4,0-1-8], [2:0-1-12,0-1-12], [3:0-1-0,0-1-0], [5:0-1-12,0-1-4], [6:0-1-9,0-1-12], [7:0-2-4,0-1-12], [8:0-1-8,0-1-0], [11:0-2-0,0-1-0], [12:0-2-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.8 (Ground Snow=40.0)	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.33 in (loc) 9-11 >807 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.52 9-11 >513 180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.10 7 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014	Matrix-R		Weight: 75 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1,W8: 2x4 SPF No.2

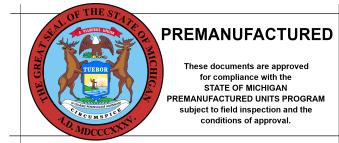
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins, except end verticals [P]
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-12, 5-7

REACTIONS. (lb/size) 12=752/0-3-8, 7=752/0-3-8
Max Horz 12=30(LC 11)
Max Uplift 12=66(LC 8), 7=66(LC 12)
Max Grav 12=822(LC 18), 7=822(LC 18)

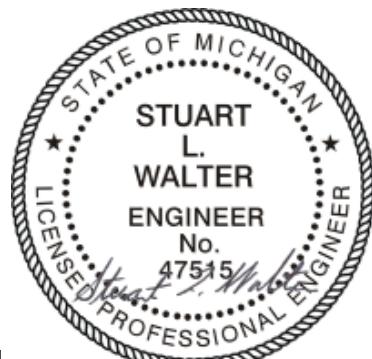
FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-192/39, 1-13=-254/21, 2-13=-250/22, 2-3=-2489/204, 3-4=-2166/180, 4-5=-2162/181, 5-14=-153/25, 6-14=-149/25, 6-7=-173/37
BOT CHORD 11-12=-191/2485, 10-11=-240/3094, 9-10=-240/3094, 8-9=-240/3095, 7-8=-165/2162
WEBS 2-11=0/223, 3-9=0/152, 5-8=0/306, 2-12=-2305/186, 3-11=-632/51, 3-8=-967/78, 5-7=-2098/169

NOTES-

- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 19-4-4, Exterior(2) 19-4-4 to 22-4-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pg=40.0 psf (ground snow); Ps=30.8 psf (roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 12 and 66 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rests with the building official or designated appointee.



WARNING - Verify design parameters and READ NOTES

Truss shall not be cut or modified without approval of the truss design engineer.

This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\mitkSupp\templates\ufp.tpe

UFP Industries, Inc.
PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525



Job 113625	Truss SF400301	Truss Type SLOPING FLAT	Qty 1	Ply 1	CHAMPION HOMES 212
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UFP Industries Inc., Grand Rapids, MI 49525, Corey Daubert

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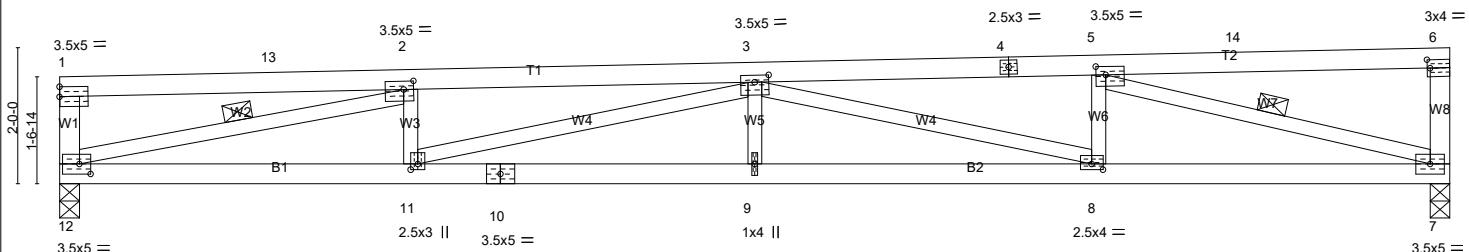
5-2-2

5-0-14

5-0-14

5-2-2

0.25 $\sqrt{12}$



5-2-2

5-0-14

5-0-14

20-6-0

5-2-2

Plate Offsets (X,Y) -- [2:0-1-12,0-1-8], [3:0-2-8,0-1-4], [5:0-1-12,0-1-8], [6:0-0-8,0-1-8], [8:0-2-0,0-1-0], [11:0-1-0,0-1-4], [12:0-2-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.8 (Ground Snow=40.0)	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.23 in (loc) 9 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.36 9-11 >664 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.07 7 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014	Matrix-R			
				Weight: 69 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1,W8: 2x4 SPF No.2

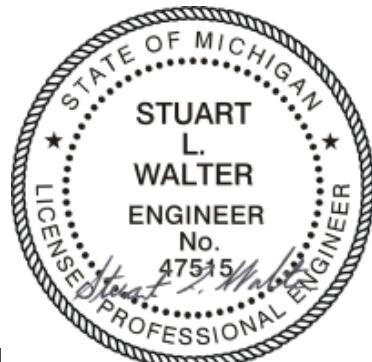
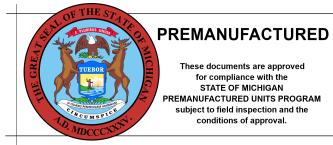
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins, except end vertical [P]
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-12, 5-7

REACTIONS. (lb/size) 12=684/0-3-8, 7=684/0-3-8
Max Horz 12=29(LC 11)
Max Uplift 12=60(LC 8), 7=60(LC 12)
Max Grav 12=745(LC 18), 7=745(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-173/35, 1-13=-209/18, 2-13=-205/18, 2-3=-2065/171, 3-4=-1817/153, 4-5=-1812/153, 5-14=-130/23, 6-14=-127/24, 6-7=-157/34
BOT CHORD 11-12=-158/2061, 10-11=-200/2583, 9-10=-200/2583, 8-9=-200/2584, 7-8=-138/1813
WEBS 2-11=0/205, 3-9=0/138, 5-8=0/274, 2-12=-1925/156, 3-11=-544/45, 3-8=-803/65, 5-7=-1769/143

NOTES-

- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCLL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-4-4, Exterior(2) 17-4-4 to 20-4-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pg=40.0 psf (ground snow); Ps=30.8 psf (roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 12 and 60 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rests with the building official or designated appointee.

6/23/2023

WARNING - Verify design parameters and READ NOTES

Truss shall not be cut or modified without approval of the truss design engineer.

This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\mitkSupp\templates\ufp.tpe

UFP Industries, Inc.
PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525



Job 113625	Truss SF400401	Truss Type SLOPING FLAT	Qty 1	Ply 1	CHAMPION HOMES 212
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UFP Industries Inc., Grand Rapids, MI 49525, Corey Daubert

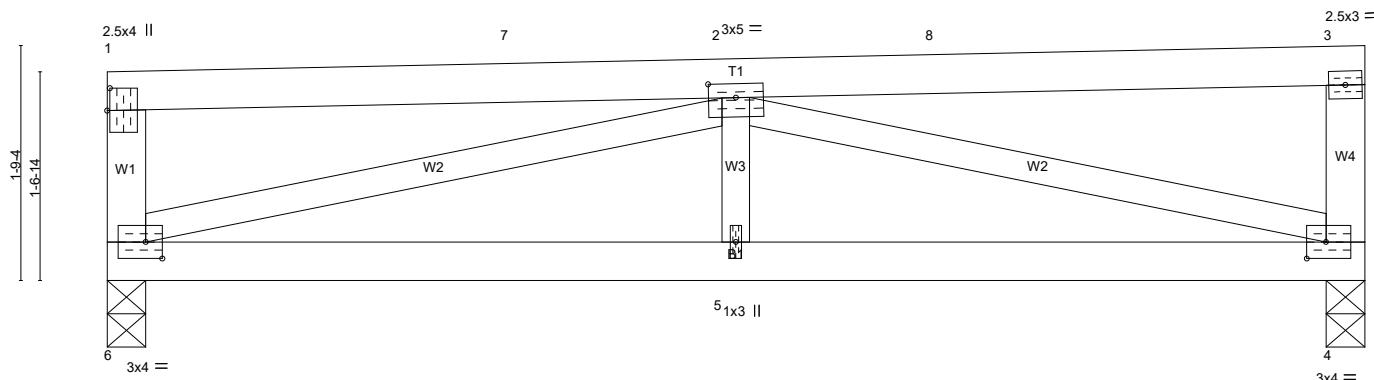
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4-9-0

4-9-0

0.25 [12]



4-9-0

9-6-0

4-9-0

Plate Offsets (X,Y)-- [1:0-2-1,0-0-4], [2:0-2-8,0-1-4], [4:0-1-12,0-1-8], [6:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.8 (Ground Snow=40.0)	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.18 BC 0.23	Vert(LL) -0.02 5 >999 240 Vert(CT) -0.03 5 >999 180 Horz(CT) 0.01 4 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES	WB 0.29			
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-R			
BCDL 10.0				Weight: 32 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1,W4: 2x4 SPF No.2

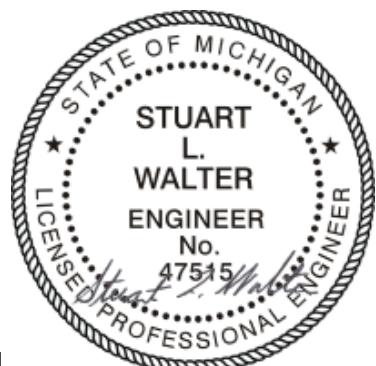
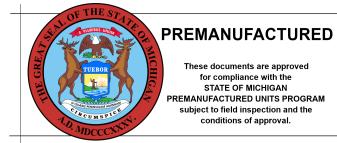
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=312/0-3-8, 4=312/0-3-8
Max Horz 6=24(LC 11)
Max Uplift 6=-28(LC 8), 4=-27(LC 12)
Max Grav 6=327(LC 18), 4=327(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-139/45, 1-7=-122/18, 2-7=-118/19, 2-8=-104/28, 3-8=-101/29, 3-4=-134/44
BOT CHORD 5-6=-47/597, 4-5=-47/597
WEBS 2-5=0/116, 2-6=-499/59, 2-4=-518/51

NOTES-

- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCLL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-4-4, Exterior(2) 6-4-4 to 9-4-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pg=40.0 psf (ground snow); Ps=30.8 psf (roof snow); Category II; Exp B; Partially Exp.; Ct=1.60
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 6 and 27 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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6/23/2023

WARNING - Verify design parameters and READ NOTES

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This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\mitkSupp\templates\ufp.tpe

UFP Industries, Inc.
PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525



Job 113625	Truss SF400501	Truss Type SLOPING FLAT	Qty 1	Ply 1	CHAMPION HOMES 212
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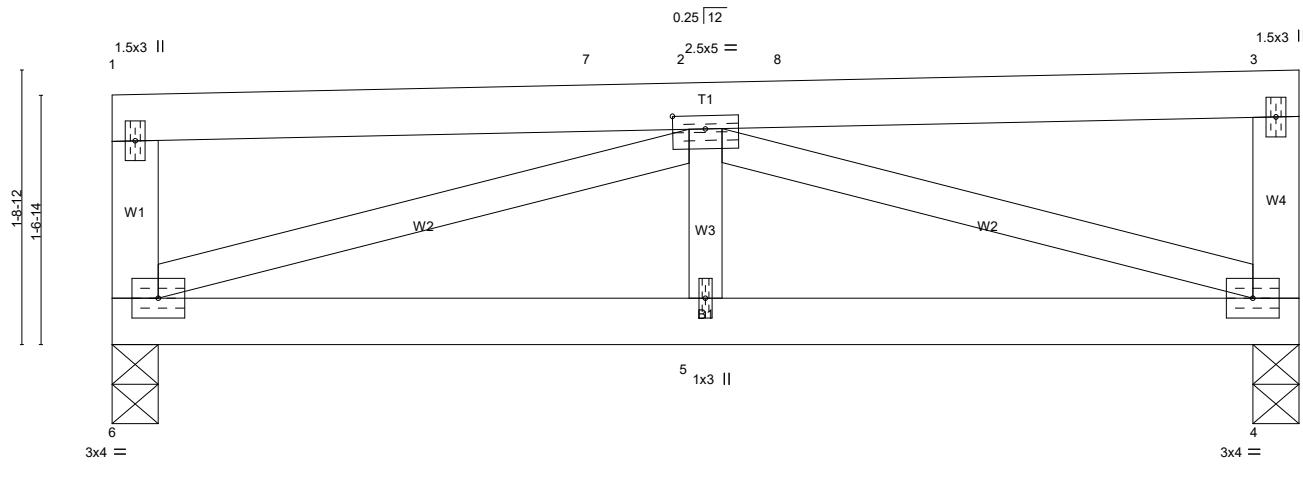
UFP Industries Inc., Grand Rapids, MI 49525, Corey Daubert

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3-9-0

3-9-0



3-9-0

7-6-0

3-9-0

Plate Offsets (X,Y)-- [2:0-2-8,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.8 (Ground Snow=40.0)	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.13 BC 0.13 WB 0.16 Matrix-P	Vert(LL) -0.01 in (loc) 5 >999 L/d 240 Vert(CT) -0.02 5 >999 180 Horz(CT) 0.00 4 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2015/TPI2014				
BCDL 10.0				Weight: 26 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

W1,W4: 2x4 SPF No.2

REACTIONS. (lb/size) 6=244/0-3-8, 4=244/0-3-8

Max Horz 6=23(LC 11)

Max Uplift 6=-22(LC 8), 4=-21(LC 12)

Max Grav 6=254(LC 18), 4=254(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-81/32, 1-7=-1/1, 2-7=0/3, 2-8=-15/14, 3-8=-14/15, 3-4=-82/32

BOT CHORD 5-6=-50/395, 4-5=-50/396

WEBS 2-5=0/115, 2-6=-423/82, 2-4=-423/70

NOTES-

1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCLL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-4-4, Exterior(2) 4-4-4 to 7-4-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) TCDL: ASCE 7-10; Pg=40.0 psf (ground snow); Ps=30.8 psf (roof snow); Category II; Exp B; Partially Exp.; Ct=1.10

3) Roof design snow load has been reduced to account for slope.

4) Unbalanced snow loads have been considered for this design.

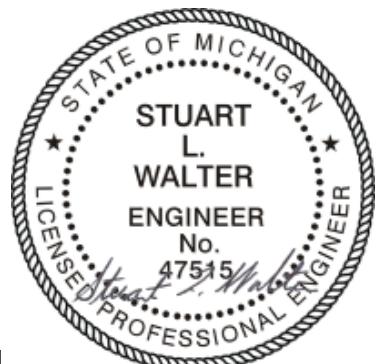
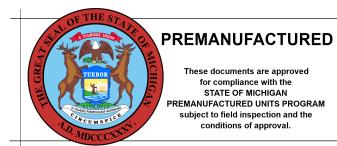
5) Provide adequate drainage to prevent water ponding.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 6 and 21 lb uplift at joint 4.

9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rests with the building official or designated appointee.

6/23/2023

WARNING - Verify design parameters and READ NOTES

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This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\mitekSupport\templates\ufp.tpe

UFP Industries, Inc.
PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525

