Champion Home Builders, Inc. DBA Highland Manufacturing Model: 290-KBM-3266S33005

## **Index:**

## Plans package

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State of Colorado Division of Housing

Apr 12 2024



DESIGN CRITERIA: COLORADO

2021 INTERNATIONAL RESIDENTIAL CODE - WITH AMENDMENTS

2023 NATIONAL ELECTRICAL CODE - WITH AMENDMENTS

2021 INTERNATIONAL ENERGY CONSERVATION CODE - WITH AMENDMENTS

8 CCR 1302-14 Administrative Rules

HOME LOCATION: 820 SOUTH STREET, VRAIN AVE., ESTES PARK, COLORADO 80517

LOCAL AUTHORITY HAVING JURISDICTION: LARIMER COUNTY, CO

SIZE: 30'-0" x 76'-0"; 66' HOUSE; 10' PORCH

FLOOR AREA: 2,280.00 SQ.FT.; 1,980.00 SQ.FT. FINISHED; 300 SQ.FT.; UNFINISHED (PORCH) ATTIC VENTILATION (1/300): 7.60 TOTAL (3.80 SQ.FT. - SOFFIT; 3.80 SQ.FT. - RIDGE VENT)

DESIGN LOADS:

LOCATION WIND SPEED: 175 MPH (VULT) = 136 MPH (VASD) TRUSS DESIGN LOADS: 77.0 PSF (RLL) = 100 PSF (GSL)

ROOF DESIGN LOAD: 42 PSF ROOF DEAD LOAD: 15 PSF FLO FLO

Notes:

Any heating equipment and ducts installed are for the main manufactured UNIT ONLY.

ATTENTION LOCAL INSPECTIONS DEPARTMENT:

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY CHAMPION HOMES AND ARE TO BE COMPLETED ONSITE BY THE CONTRACTOR AND INSPECTED BY THE AUTHORITY HAVING JURISDICTION:

- FOUNDATION CONSTRUCTION AND ALL EARTH WORK.
- SERVICE CONNECTIONS FOR ELECTRICAL, GAS, WATER AND WASTE.
- ANY PLUMBING OR HVAC NOT INSTALLED OR SITE INSTALLED BELOW FLOOR SYSTEM IS TO BE COMPLETED BY A LICENSED TRADE PROFESSIONAL.
- BASEMENT/CRAWL SPACE WALL INSULATION.
- SHIP LOOSE SIDING/SHUTTERS.
- RIDGE CAP/VENT AND SET-UP OF FOLD DOWN TRUSSES IF APPLICABLE.
- Unit to unit connections.

FLOOR LIVE LOAD:									SAFETY	(8.13 SQ.FT.)	5.99	2.95	74	.26		
FLOOR DEAD LOAD: WALL DEAD LOAD:	10 PSF 5 PSF					- INSTALLATION OF INTERIOR DOORS ON MATE LINE AND FINISHING.					30 1/4" x 8 1/4" (1.73 SQ.FT.)	1.01	0	12.6 (LIGHT ONLY)	.26	
SEISMIC DESIGN:	ZONE C		OR 🖂	∕I AIR REGISTER ⊒ -COLD AIR RETURN	<ul> <li>FIELD EXTENSION OF GAS VENTS AND/OR CHIMNEYS TO THE EXTERIOR.</li> <li>INSTALLATION OF STAIRS TO THE BASEMENT.</li> </ul>					3015	30 1/4" x 15 1/4" (3.20 SQ.FT.)	1.87	0	23.4 (LIGHT ONLY)	.26	
CONSTRUCTION TYPE: OCCUPANCY:	VB R3	-AIR TO AIR EXCHANGE LOCATION (MN ONLY)  SP -REQUIRED SUPPORT POST LOCATION  LE STORY			- SITE INSTALLED DOORS OR WINDOWS. - GARAGES.				3036	30 1/4" x 36 1/4"	5.55	2.64	66	.26		
NUMBER OF FLOORS:	SINGLE ST				- EXTERIOR DISCONNECTING MEANS & SURGE PROTECTION AT THE SERVICE PANEL.				3042	(7.62 SQ.FT.) 30 1/4" x 42 1/4"	7.10	0	88.8	.33		
ELECTRICAL (	CIRCUIT D	IRECTO	DRY	SINGLE POLE SWITCH			ELE	CTRICAL LEGE	END	3012	(8.88 SQ.FT.)	7.10	0	(LIGHT ONLY)	55	
CIRCUIT# CIRCUIT DE	SCRIPTION	BREAKER	WIRE	(D DENOTES DIMMER) (3 DENOTES 3-WAY)	di				- CEILING VENT FAN WITH	3061	30 1/4" x 61 1/4" (12.87 SQ.FT.)	10.13	5.12	127	.34	
1 KITCHEN		#*20	12-2/WG	(4 DENOTES 4-WAY)	240 VOLT RECEPTACLE		ACLE	-Q- CEILING LIGHT	-Q- LIGHT	3608	36 1/4" x 8 1/4"	1.21	0	15.1	.26	
2 KITCHEN 3 REFRIGERATOR	-	#*20 #*20	12-2/WG 12-2/WG	☐ GENERAL LIGHTING RECEPTACLE	HEAT TAPE RECEPTACLE		PTACLE	1			(2.08 SQ.FT.)	1.21		(LIGHT ONLY)	20	
4 WASHER		#*20	12-2/WG 12-2/WG	120 VOLT - 15 AMP	==== 120	VOLT - 20 AM	4P (GFCI)	→ WALL LIGHT	CEILING VENT FAN	3661 EGRESS	36 1/4" x 61 1/4" (15.41 SQ.FT.)	12.43	6.11	153	.26	
5 LIVING ROOM		#15	14-2/WG	GENERAL LIGHTING RECEPTACLE	A			LED CAN LIGHT	P.F. PREP	4661	46 1/4" x 61 1/4"	16.27	7.94	199	.26	
6 ENTRY/WIP/BEDI 7 BEDROOM #3/PR		#15 #15	14-2/WG 14-2/WG	120 VOLT - 15 AMP G.F.I. PROTECTED	Фін	ERMOSTAT		- LED CAN LIGHT - HIGH EFFICACY	PADDLE FAN PREP	EGRESS	,	16.27	7.94	199	.26	
8 DINING ROOM/P		#15	14-2/WG 14-2/WG	Д SMALL APPLIANCE RECEPTACLE	Ø SD	<b>₽</b> SD/CO	@ co	-(P)- PENDANT LIGHT	PADDLE FAN	6040	60 1/4" x 40 1/4" (16.84 SQ.FT.)	13.80	7.19	174	.26	
9 RANGEHOOD		#20	12-2/WG	● 120 VOLT - 20 AMP	SD SD	SD/CO	© to	PP PENDANT LIGHT	PADDLE FAN		72 1/4" x 24 1/4"			128.3		
10 UTILITY/SMOKE A	Alarms	#15	14-2/WG	SMALL APPLIANCE RECEPTACLE	1 MAY 20 D	AL DANIEL	•	LED PUCK / UNDER	SPECIAL PURPOSE	7224	(12.17 SQ.FT.)	10.26	0	(LIGHT ONLY)	.26	
11 DRYER 13 DISHWASHER		*30 +*#20	10-3/WG 12-2/WG	120 VOLT - 20 AMP G.F.I. PROTECTED	MA.	IN PANEL		LED PUCK / UNDER CABINET LIGHT	CONNECTION	8260	82 1/4" x 60 1/4"	30.55	8.31	208	.26	
14 WATER HEATER		20	10/2	- ALL EXTERIOR RECEPTACLES AND LIGH				(	✓ COMMUNICATIONS PORT		(34.41 SQ.FT.)					
15 DINING ROOM RE	ECPTS	#20	12-2/WG		UBS ARE SUITABLE FOR WET LOCATIONS.			JUNCTION BOX	(TV, INTERNET, OR PULL BOX)	DOOR SCHEDULE - EXTERIOR						
16 WALL OVEN		+40	8-3/WG	- CIRCUIT NUMBERS MAY VARY AND NOT ALL CIRCUITS ARE IN USE.  NOTES: -IF FURNACE IS INSTALLED, INSTALLATION PER IRC (MRC FOR MI) - DATA PLATE AND ALL 3rd PARTY LABELS SHALL BE & THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.							38" x 83"	0	45	375		
17 FURNACE BLOWE		20	12-2/WG								(22.06 SQ.FT.)	U	15	(VENT ONLY)	.17	
18 EXTERIOR RECEPT 20 UTILITY	TS (WP REQ'D)	#*20 #*20	12-2/WG 12-2/WG	LOCATED ON THE INSIDE OF THE	IS FLOOR MOUNTED WITH A	7280	72 1/2" x 85 3/4" (40.50 SO.FT PATIO)	33.36	16.30	408	.33					
23 KITCHEN	1	#15	14-2/WG	CABINET PANEL.			PAN. PA	N DRAIN TERMINATION PER	IRC. ALL WATER HEATERS		, , ,				$\overline{}$	
24 BATH #2/M.CLOS	SET/PRIM'Y BEDR	#15	14-2/WG	- STATE LABELS LOCATED BY DA				SMICALLY SECURED WITH ST	TRAPS AT THE TOP AND	7580	75 1/2" x 83" (43.25 SQ.FT ATRIUM)	33.36	16.30	408	.33	
27 FREEZER		#*20	12-2/WG	- NEC: ALL 15 & 20-AMP CIRCUITS SUPPLYING BOTTOM 1/3.						DOOD COLEDUIE INTEDIOS						
30 BATHROOMS		#*20	12-2/WG	POWER INSTALLED IN KITCHENS, LIVING ROOMS, - AIR LEAKAGE TEST SHALL BE CONDUCTED BY OTHERS AFTER PARLORS, LIBRARIES, FAMILY ROOMS, DINING. SET UP PER IECC. REQUIRED MECHANICAL VENTILATION SHALL						DOOR SCHEDULE - INTERIOR						
33 MICROWAVE		#*20	12-2/WG	DENS, BEDROOMS, SUNROOMS,				ALLED ON SITE BY OTHERS.	ANICAL VENTILATION SHALL	CALL		UNDER CUT				
* GFCI PROTECTED # AFCI PROTE	CTED + LOCKOUT RE	Q'D WP = WE	ATHER PROOF	HALLWAYS, LAUNDRY AREAS, OF				LER SYSTEMS MAY BE REQU	JIRED PER LOCAL CODES	SIZE	OPENING	SIZE (IN)	USABLE (SQ.	IN.) MAX (S	¿Q.FT.)	
ALL BATH FANS ARE 50 CPM W/ 4" ROUND FLEX DUCT State of Colorado SHALL HAVE AFCLEROTECTION SPRINKLER SYSTEMS ARE NOT INSTALLED AT THE FACTORY & IF									2480	25 1/2" x 83 1/4"	2.5	30.0	15	50		
FINAL DESTINATION OF HOUSE MAY BE WITHIN THE DIVISION OF HOUSING. ACCESS FOR TUB/WHIRLPOOL DRAIN & MOTOR IS REQUIRED, WILL BE INSTALLED ON SITE BY OTHERS.													_			
STATE OF COLORADO AS LONG AS IT MEETS THE ABOVE APT 12 2024 REQUIRED.  - ALL SETBACK DISTANCES TO PROPERTY LINES AND/OR LISTED CODE REQUIREMENTS AND THE FOLLOWING  - TUBS SHALL HAVE INTEGRAL TILING FLANGE OR A  - ALL SETBACK DISTANCES TO PROPERTY LINES AND/OR  - TUBS SHALL HAVE INTEGRAL TILING FLANGE OR A  - ADJACENT BUILDINGS ON THE LOT ARE THE RESPONSIBILITY OF								3080	31 1/2" x 83 1/4"	2.5	37.5	18	38			
DESIGN REQUIREMENTS:	S AND THE FOLLO	WING &	OF COLOR	SPACE MUST BE MAINTAINED FO				MEOWNER & SHALL FOLLOW		3680	37 1/2" x 83 1/4"	2.5	45.0	22	25	
<ol> <li>MAX WIND SPEED = 1</li> </ol>		12/	-0000	BETWEEN THE PLATFORM & BAS	E.	-			STEM DESIGN FOR THE HOME.	3000	37 1/2 × 03 1/4	2.3	45.0		٠.	
2. MAX ROOF SNOW LOAD		× 4		*/						4880	49 1/2" x 83 1/4"	2.5	60.0	30	00	
<ol><li>Max elevation = 6,1</li></ol>	TOO FEET	1.		/												

- 1.
- 2.

MODIFICATIONS

КВМ-3266S33005 76'-0" x 30'-0" 3BD 3BT Customer: Tarczali

FILENAME: 004959 (KBM-3266S33005) (TARCZALI) DRAWN BY: EDDIE ANSTINE DATE: 03-14-24

**COVER SHEET** 

CS-101

Plan Approval #: PFS 50025800

(SQ.FT.) VALUE

39.5

IGHT ONLY

29

U

.26

.26

WINDOW SCHEDULE

(SQ.FT.)

3.16

16.27

ROUGH

OPENING

10 1/4" x 76 1/4"

(5.42 SQ.FT.)

24 1/4" x 24 1/4"

(4.08 SQ.FT.)

2448SG 24 1/4" x 48 1/4"

CALL

SIZE

1076SG

SAFETY

2424

IGHT AREA VENT AREA ROOM AREA

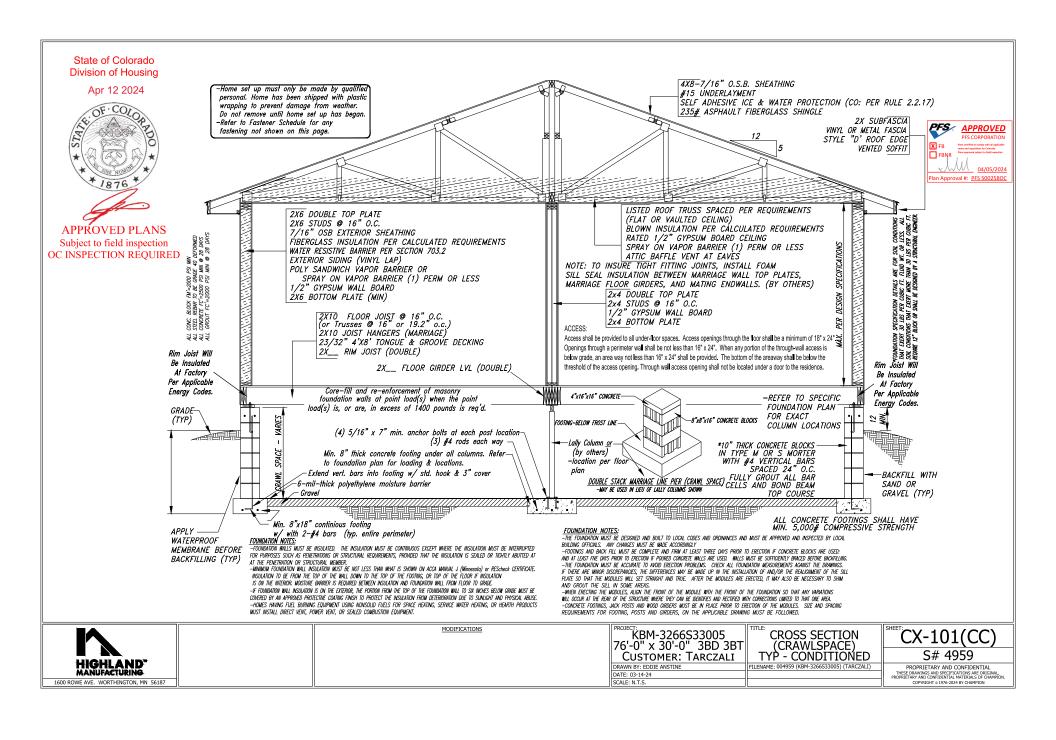
(SQ.FT.)

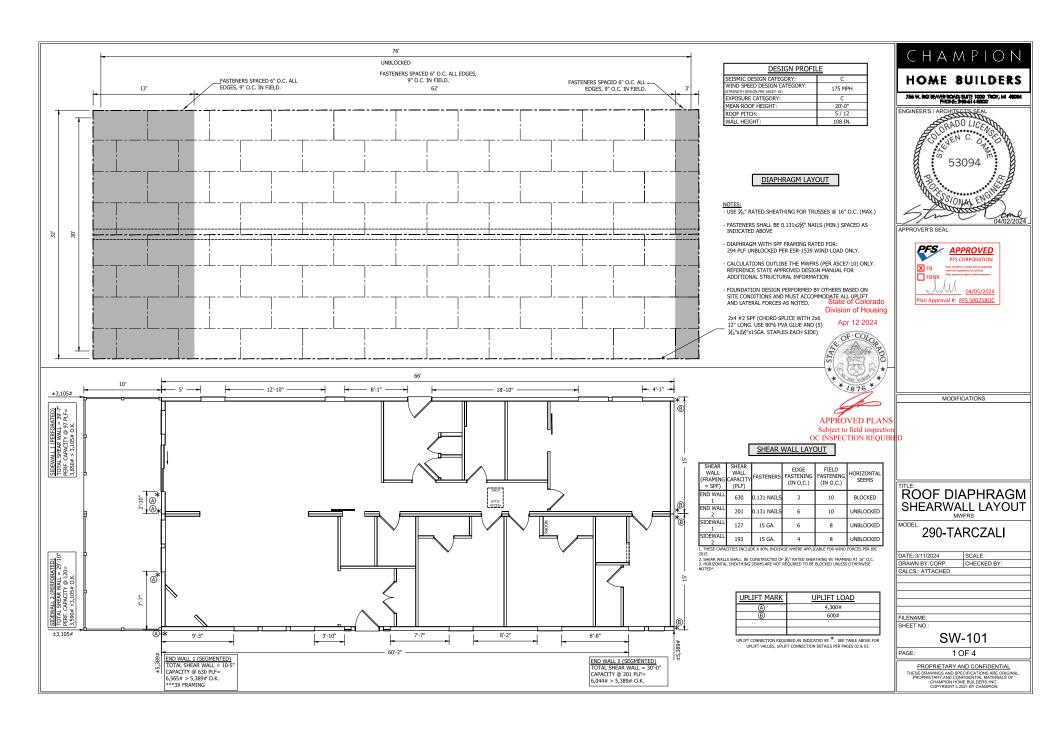
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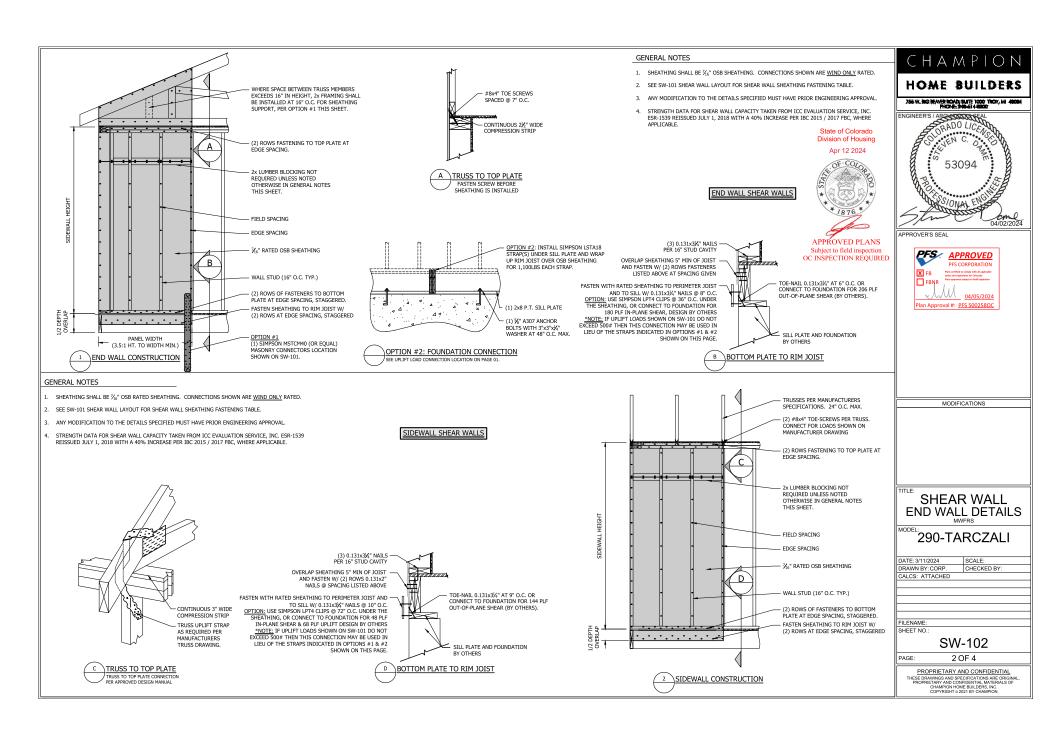
PROPRIETARY AND CONFIDENTIAL

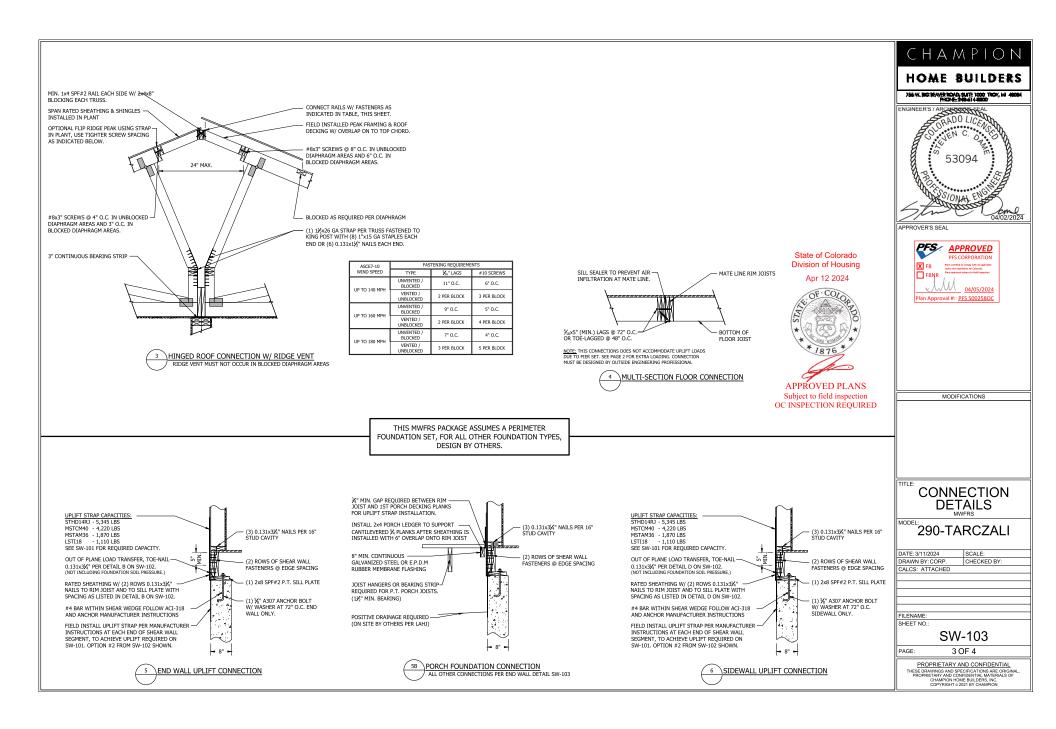


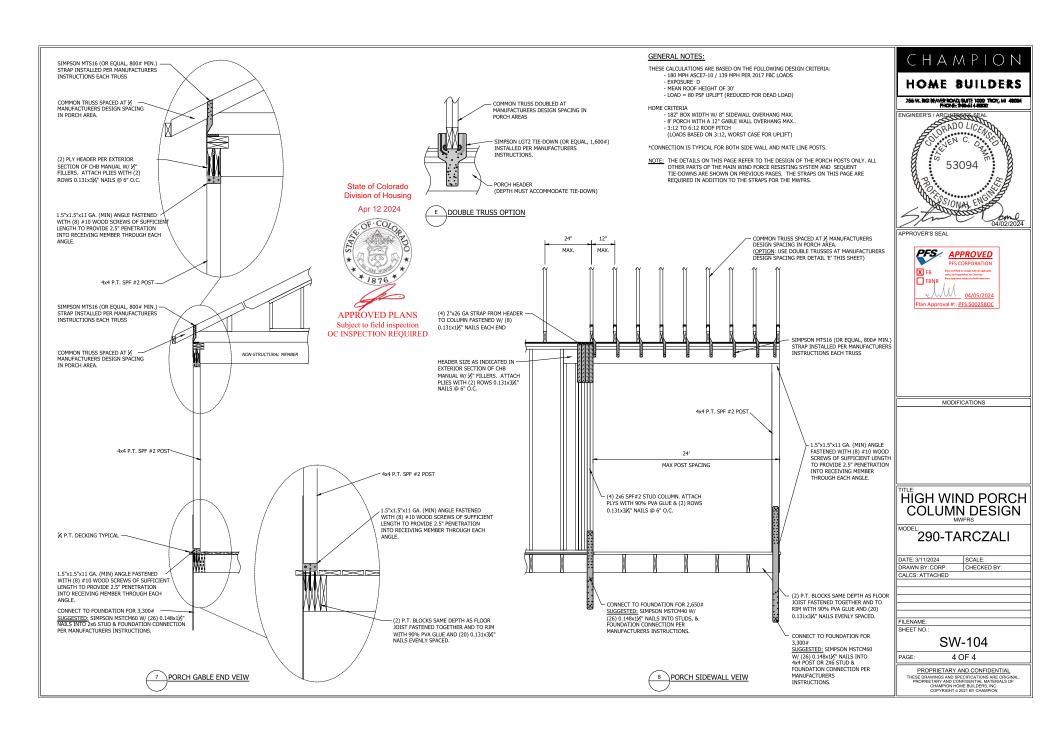


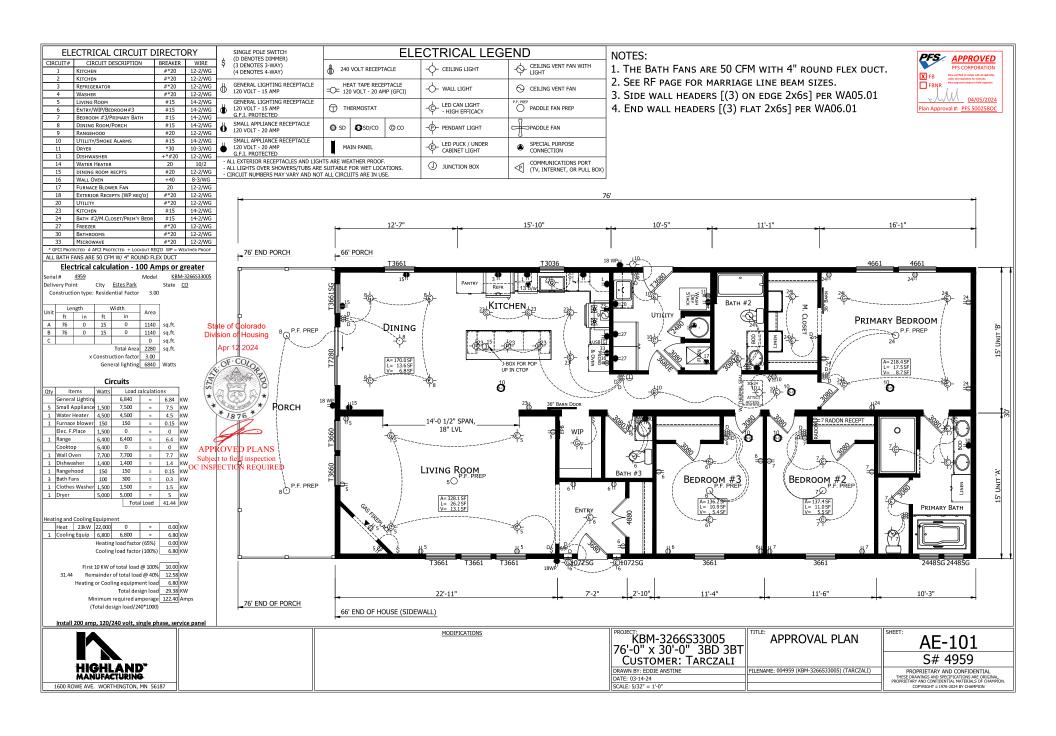


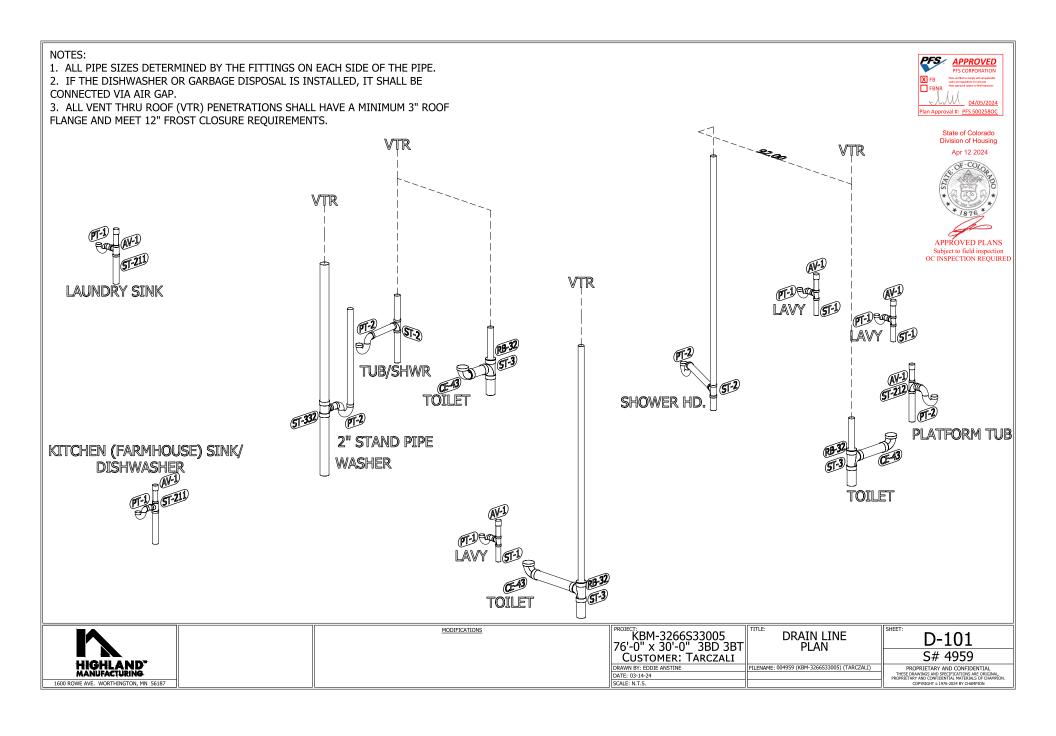


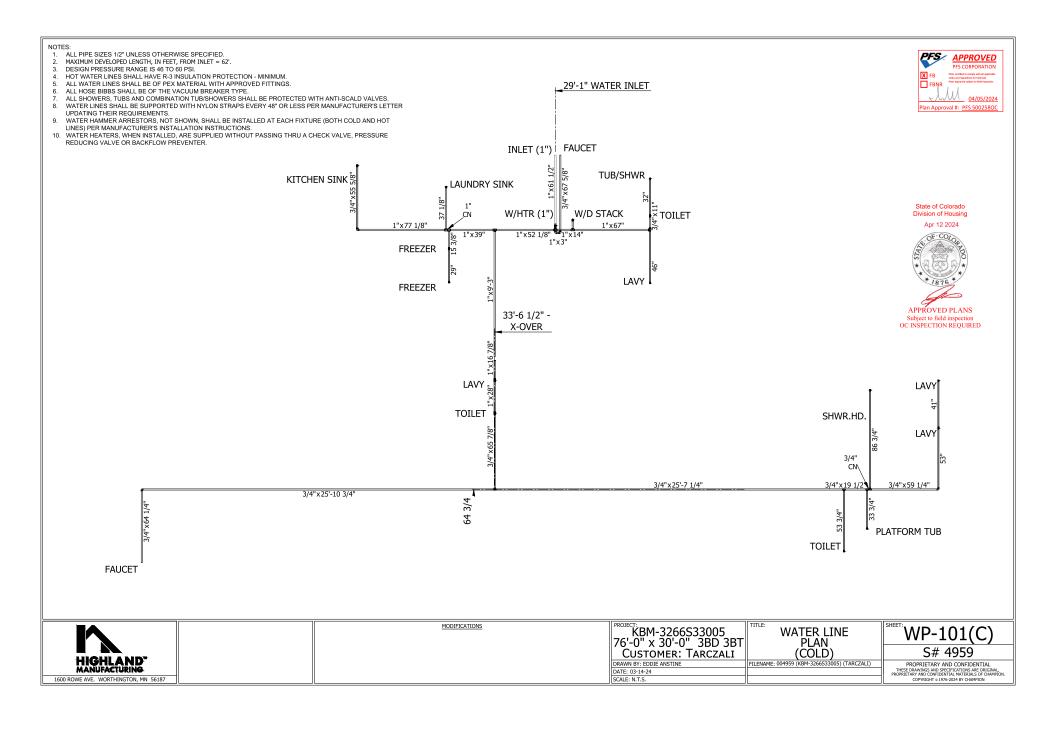












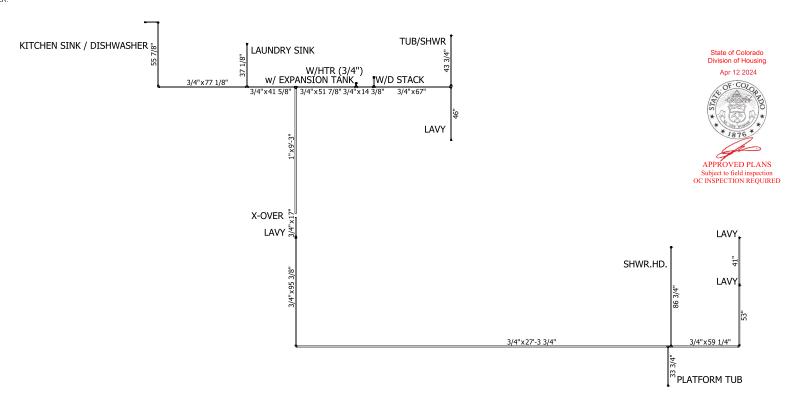
- ALL PIPE SIZES 1/2" UNLESS OTHERWISE SPECIFIED.
  MAXIMUM DEVELOPED LENGTH, IN FEET, FROM INLET = 62'.

- DESIGN PRESSURE RANGE IS 46 TO 60 PSI.
  HOT WATER LINES SHALL HAVE R-3 INSULATION PROTECTION MINIMUM.
- ALL WATER LINES SHALL BE OF PEX MATERIAL WITH APPROVED FITTINGS.

- ALL HOSE BIBBS SHALL BE OF THE VACUUM BREAKER TYPE.
  ALL SHOWERS, TUBS AND COMBINATION TUB/SHOWERS SHALL BE PROTECTED WITH ANTI-SCALD VALVES.
  WATER LINES SHALL BE SUPPORTED WITH NYLON STRAPS EVERY 45" OR LESS PER MANUFACTURER'S LETTER
- UPDATING THEIR REQUIREMENTS.

  WATER HAMMER ARRESTORS, NOT SHOWN, SHALL BE INSTALLED AT EACH FIXTURE (BOTH COLD AND HOT LINES) PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 10. WATER HEATERS, WHEN INSTALLED, ARE SUPPLIED WITHOUT PASSING THRU A CHECK VALVE, PRESSURE REDUCING VALVE OR BACKFLOW PREVENTER.







MODIFICATIONS

KBM-3266S33005 76'-0" x 30'-0" 3BD 3BT CUSTOMER: TARCZALI DRAWN BY: EDDIE ANSTINE

DATE: 03-14-24

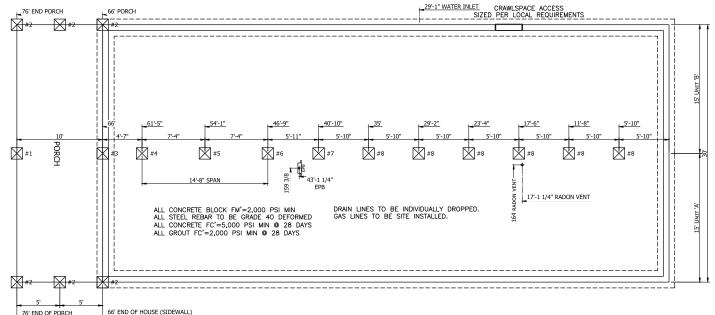
PLAN (HOT) FILENAME: 004959 (KBM-3266S33005) (TARCZALI)

WATER LINE

WP-101(H)

PROPRIETARY AND CONFIDENTIAL





**APPROVED** 04/05/2024 State of Colorado Division of Housing Apr 12 2024 E OF COLOR

APPROVED PLANS Subject to field inspection OC INSPECTION REQUIRED

FOUNDATION NOTES:
- REFER TO TYPICAL CROSS SECTION

TUB ACCESS TO BE ADDED IN THE BASEMENT IF PLUMBING IS CONCEALED.

\_76' END OF PORCH

DEALER/INSTALLER MAY USE I-BEAM UNDER MATE WALL TO INCREASE JACK POST SPACING. CONSULT A LOCAL PROFESSIONAL ENGINEER. UNCONDITIONED CRAWL SPACE: (SEE HVAC PLAN)

- CRAWL SPACE ACCESS & VENTILATION PER LOCAL CODES OR IRC R408.1 & R408.2, WHICHEVER IS MORE

CONDITIONED CRAWL SPACE: (SEE HVAC PLAN)

- NO VENT OPENINGS REQUIRED

- VAPOR RETARDER REQUIRED (6 MIL MIN. THICK), ALL JOINTS SEALED MIN 6" UP ONTO CRAWL WALLS - INSULATE CRAWL WALLS PER RESCHECK/ENERGY CALCULATIONS (THERMAL BARRIER OVER FOAM INSULATION)

EGRESS BASEMENT WINDOW REQUIREMENTS: - THE CLEAR HORIZONTAL DIMENSIONS SHALL ALLOW THE WINDOW WELL TO BE FULLY OPENED AND PROVIDE A MINIMUM ACCESSIBLE NET CLEAR OPENING OF 9 SQUARE FEET, WITH A MINIMUM DIMENSION OF 36".

- WINDOW WELLS WITH A VERTICAL DEPTH OF MORE THAN 44" SHALL BE EQUIPPED WITH AN APPROVED PERMANENTLY AFFIXED LADDER OR STAIRS THAT ARE ACCESSIBLE WITH THE WINDOW IN THE FULLY OPENED POSITION. THE LADDER OR STAIRS SHALL NOT ENCROACH INTO THE REQUIRED DIMENSIONS OF THE WINDOW WELL BY MORE THAN 6"

- AT LEAST ONE EGRESS BASEMENT WINDOW IS REQUIRED AND IT MAY BE PLACED AT THE DISCRETION OF THE LOCAL ENGINEER'S DESIGN.

FOUNDATION DRAIN:

- THE DRAIN SHALL CONSIST OF GRAVEL, CRUSHED STONE OR DRAIN TILE.

GRAVEL OR CRUSHED STONE DRAINS SHALL CONTAIN NOT MORE THAN 10% MATERIAL THAT PASSES A NO. 4 SIEVE. THE DRAIN SHALL EXTEND A MINIMUM OF 12" BEYOND THE OUTSIDE EDGE OF THE FOOTING. THE DEPTH SHALL BE SUCH THAT THE BOTTOM OF THE DRAIN IS NOT HIGHER THAN THE BOTTOM OF THE BASE MATERIAL UNDER THE FLOOR AND THE TOP OF THE DRAIN IS NOT LESS THAN 6" ABOVE THE SPREAD PORTION OF THE FOOTING. THE TOP OF THE DRAIN SHALL BE COVERED WITH AN APPROVED FILTER MEMBRANE

- DRAIN TILE OR PERFORATED PIPE SHALL BE PLACED SUCH THAT THE INVERT OF THE PIPE OR TILE IS NOT HIGHER THAN THE FLOOR ELEVATION. THE TOP OF THE JOINTS OR THE PERFORATIONS SHALL BE PROTECTED WITH AN APPROVED FILTER MEMBRANE MATERIAL. THE PIPE OR TILE SHALL BE PLACE ON TOP OF A MINIMUM OF 2" OF GRAVEL OR CRUSHED STONE COMPLYING WITH THIS SECTION AND COVERED BY A MINIMUM OF 6" OF

MODIFICATIONS

DUE TO EXTERIOR WALL SHEATHING, OPTIONAL MARRIAGE WALL SHEATHING, OR POSSIBLE MARRIAGE LINE GAPS, IT IS PERMISSIBLE TO ADD 1" TO 11" TO THE TOTAL WIDTH OF THE FOUNDATION DIMENSION SHOWN ON THIS

FOOTING SIZES: USE SITE SPECIFIC SOIL BEARING CAPACITY

30'-0" WIDE FLOOR W/ DOUBLE LVL BEAMS PER HALF LVL TO BE  $1\frac{1}{2}$ " X  $9\frac{1}{4}$ ", 2.0E, 2,900 Fb (MINIMUM) ASSUMED LOADS ARE 80/15 PSF & 40/10 PSF & 5 PSF. ALL LOADS ARE BASED ON ACTUAL SUPPORT PIER SPACING

FINAL FOUNDATION IS TO BE DESIGNED BY A LOCAL PROFESSIONAL ENGINEER.

POSTS WHICH ARE NOT LOCATED AT CONCENTRATED LOADS OR LVL SPLICE LOCATIONS MAY BE MOVED AS LONG AS THE MAXIMUM POST SPACING IS NOT EXCEEDED. MAXIMUM ALLOWABLE PIER SPACING:

1. FLOOR & ROOF LOADS = 6'-9"

2. FLOOR LOADS ONLY = 8'-1"

PIER	LOAD TYPE	LOAD (#)				
PIER #1	(CONCENTRATED LOADS)	12,500				
PIER #2	(FLOOR LOADS ONLY)	4,600				
PIER #3	(FLOOR & ROOF LOADS)	10,300				
PIER #4	(CONCENTRATED LOADS)	17,000				
PIER #5	(FLOOR LOADS ONLY)	6,600				
PIER #6	(CONCENTRATED LOADS)	22,500				
PIER #7	(FLOOR & ROOF LOADS)	14,900				
PIER #8	(FLOOR & ROOF LOADS)	14,800				

## NOTICE:

THE FLOOR IS NOT INSULATED IN THE FACTORY. IT IS THE RESPONSIBILITY OF THE RETAILER AND/OR CUSTOMER TO INSULATE THE FLOOR AND/OR FOUNDATION WALLS TO BRING THE HOME INTO THERMAL ENVELOPE COMPLIANCE PER THE PROVIDED THERMAL CALCULATIONS.



КВМ-3266S33005 76'-0" x 30'-0" 3BD 3BT CUSTOMER: TARCZALI

PIER AND FOUNDATION DROPS **PLAN** 

F-101 S# 4959

FILENAME: 004959 (KBM-3266S33005) (TARCZALI) DRAWN BY: EDDIE ANSTINE DATE: 03-14-24

PROPRIETARY AND CONFIDENTIAL

