

3-D VIEWS ARE FOR QUICK GRASP OF PROJECT WITHOUT SPECIFIC DETAIL, SEE ELEVATION DRAWINGS

| REV. # | START UP | REVISION DESCRIPTION | DATE |
|--------|--------------------------|----------------------|----------------|
| | PRELIMINARY | | FEB. 05, 2011 |
| | ESTIMATING & TRADE INPUT | | NOV. 16, 2011 |
| | REVIEW FOR PERMITS | | DEC. 16, 2011 |
| | FLIP STAIR | | FEB. 05, 2012 |
| | | | FEB. 20, 2012 |
| | | | JULY 12, 2012 |
| | | | SEPT. 10, 2012 |

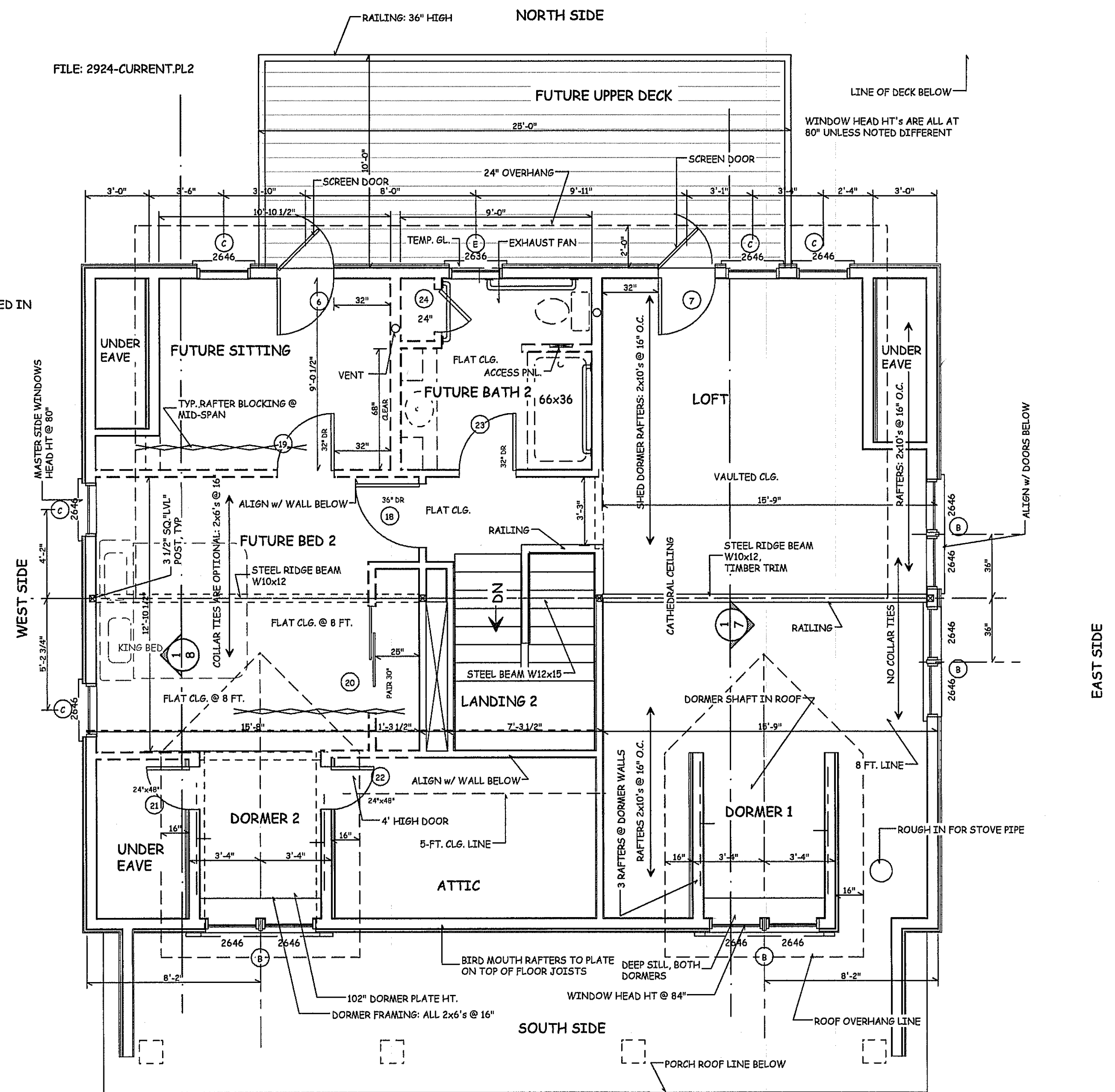
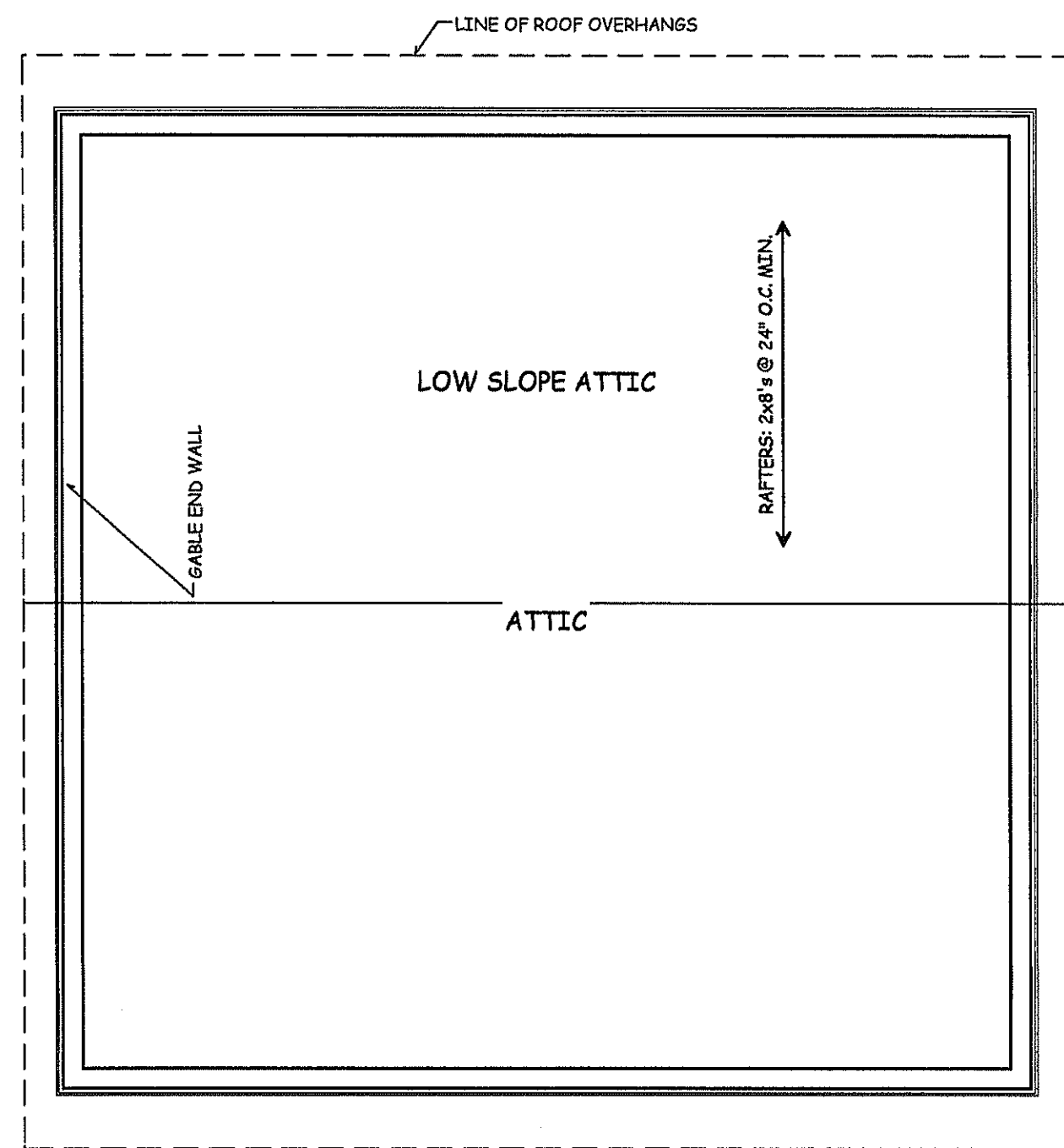
ONLY VALID FOR PERMITS w/ EMBOSSED SEAL & ORIGINAL "RED" SIGNATURE

HOUSE & GARAGE ARE BOTH PRESENTED IN THIS SET OF DRAWINGS, HOWEVER WILL BE SEPARATE PROJECTS.

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STEEL ONLY REVISED 2012-09-17

NOTE: ENGINEERED RIDGE BEAM NOT REQUIRED IN ROOMS WITH CEILING JOISTS (COLLAR TIES)



WHOLE HOUSE FAN SYSTEM

1. THE PURPOSE IS TO CREATE A FORCED VENTILATION SYSTEM. GENERALLY, THESE SYSTEMS ARE INSTALLED TO BRING IN COOL EXTERIOR AIR VIA WINDOWS, THUS REDUCING NEED FOR SUMMER SEASON AIR CONDITIONING.
2. RUN AND COOL HOUSE WITH THE EARLY MORNING AIR, THEN CLOSE UP THE HOUSE TO PREVENT INTRODUCTION OF HOT HUMID AIR DURING THE DAY. IN THE EVENING, AFTER THE SUN GOES DOWN, USE THE SYSTEM TO EXHAUST THE STALE HOUSE AIR, REPLACING WITH COOL EVENING AIR. USE IN COMBINATION WITH AC FOR MOST EFFECTIVE COMFORT.
3. WITH USE OF A "LIMIT" THERMOSTAT, THE FAN WILL AUTOMATICALLY TURN ITSELF OFF AT A PRESET TEMP, AND NOT RUN ALL NIGHT.
4. A GOOD CONTROL PACKAGE CAN MAKE THE SYSTEM MOST EFFECTIVE.
5. THE FAN MUST BE LOCATED IN THE LAST INSULATION LAYER OF HOUSE. USE AS BIG A FAN AS POSSIBLE, TURNING AS SLOWLY AS POSSIBLE FOR BEST EFFECT WITHOUT TOO MUCH FAN NOISE OR WIND VELOCITY. INSTALL FAN ON HINGES SO IT CAN BE EASILY SWUNG ASIDE AND AN INSULATION BOARD INSTALL FOR WINTER.
6. EXHAUST FANS CAN ONLY EXHAUST AIR IN THE SAME PROPORTION AS MAKE-UP AIR COMING IN. IF THE WHOLE HOUSE FAN IS SPINNING TO MOVE 1,000 CUBIC FEET PER MINUTE (CFM), THEN 1,000 MUST BE ALLOWED IN THROUGH THE WINDOWS OR THE FAN WILL "STALL." OPEN WINDOWS TO DETERMINE WHERE INCOMING AIR PULLS FROM. AIR WILL FOLLOW THE PATH OF LEAST RESISTANCE.
7. LIKE THE HVAC, THE HOUSE IS DIVIDED INTO TWO ZONES, FIRST FLOOR AND SECOND FLOOR, THERE ARE TWO LOUVERS SHOWN FROM THE ATTIC TO THE INTERIOR. DEPENDING ON HOW THE LOUVERS ARE OPENED WILL DETERMINE AIR FLOW AND BALANCE. THESE LOUVERS CAN BE EITHER GRAVITY OPERATION, OR INSTALLED WITH MOTORS LINKED TO FAN.

FRESH AIR EXCHANGE SYSTEM:

1. AS BUILDINGS ARE MADE TIGHTER AND TIGHTER MECHANICAL CODES ARE SUGGESTING THE INTRODUCTION OF EXTERIOR FRESH AIR INTO OCCUPIED ENVIRONMENTS TO PREVENT "SICK BUILDING SYNDROME."
2. INSTALL ENERGY RECOVERING FRESH AIR EXCHANGER. THIS UNIT TO BE A STAND ALONE PACKAGE, DIRECTING AIR TO THE RETURNS OF EACH FLOOR'S AIR HANDLER. DOES NOT HAVE TO BE A HARD CONNECTION. SEE DRAWING FOR LOCATION IN ATTIC. UNIT SHALL NOT RUN CONSTANTLY, BUT SHALL HAVE CONTROL INTERCONNECTION AND RUN ONLY WHEN AIR HANDLERS ARE OPERATING, WITH OVERRIDE.

PRODUCT: PERFECTAIRE, MODEL 8100 FRESH AIR EXCHANGER, OR APPROVED

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SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

2nd. FLOOR PLAN

NEW PRIVATE RESIDENCE
 TAMARACK ROAD
 NICHOLSON TWP, WYOMING CO., PENNSYLVANIA
 DEED BOOK 162, PAGE 654, TAX ID # 79-0-50.0, 5.228 ACRES

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