

MAINTENANCE SCHEDULE FOR PROPOSED STORMWATER MANAGEMENT PRACTICES:

RAINGARDENS:

RAIN GARDENS ARE INTENDED TO BE RELATIVELY LOW MAINTENANCE. HOWEVER, THESE PRACTICES MAY BE SUBJECT TO SEDIMENTATION AND INVASIVE PLANT SPECIES WHICH COULD CREATE MAINTENANCE PROBLEMS. IF THE RECHARGE ABILITY IS LOST BY ACCUMULATION OF FINE SEDIMENT, MOSQUITO BREEDING MAY OCCUR. ADEQUATE ARRANGEMENTS FOR LONG TERM MAINTENANCE OF THESE SYSTEMS AND UPDATED INVENTORIES OF THEIR LOCATION ARE ESSENTIAL FOR THE LONG-TERM PERFORMANCE OF THESE PRACTICES. RAIN GARDENS SHOULD BE TREATED AS A COMPONENT OF THE LANDSCAPING, WITH ROUTINE MAINTENANCE SPECIFIED THROUGH A LEGALLY BINDING MAINTENANCE AGREEMENT. ROUTINE MAINTENANCE MAY INCLUDE THE OCCASIONAL REPLACEMENT OF PLANTS, MULCHING, WEEDING AND THINNING TO MAINTAIN THE DESIRED APPEARANCE. WEEDING AND WATERING ARE ESSENTIAL THE FIRST YEAR, AND CAN BE MINIMIZED WITH THE USE OF A WEED-FREE FREE MULCH LAYER. STUDIES HAVE FOUND THAT RAIN GARDENS, ESPECIALLY WHEN NATIVE PLANTS ARE USED, ARE WELL ACCEPTED IF THEY APPEAR ORDERLY AND WELL MAINTAINED. HOMEOWNERS AND LANDSCAPERS MUST BE EDUCATED REGARDING THE PURPOSE AND MAINTENANCE REQUIREMENTS OF THE RAIN GARDEN, SO THE DESIRABLE ASPECTS OF PONDED WATER ARE RECOGNIZED AND MAINTAINED. SELECT LOWER GROWING SPECIES THAT STAY UPRIGHT. KEEP PLANTS PRUNED IF THEY START TO GET "LEGGY" AND FLOPPY. CUT OFF OLD FLOWER HEADS AFTER A PLANT IS DONE BLOOMING. KEEPING THE GARDEN WEEDS IS ONE OF THE MOST IMPORTANT TASKS, ESPECIALLY IN THE FIRST COUPLE OF YEARS WHILE THE NATIVE PLANTS ARE ESTABLISHING THEIR ROOT SYSTEMS. ONCE THE RAIN GARDEN HAS MATURED, THE GARDEN AREA SHOULD BE FREE OF BARE AREAS EXCEPT WHERE STEPPING STONES ARE LOCATED. INSPECT FOR SEDIMENT ACCUMULATIONS OR HEAVY ORGANIC MATTER WHERE RUNOFF ENTERS THE GARDEN AND REMOVE AS NECESSARY. THE TOP FEW INCHES OF PLANTING SOIL SHOULD BE REMOVED AND REPLACED WHEN WATER PONDS FOR MORE THAN 48 HOURS. BLOCKAGES MAY CAUSE DIVERSION OF FLOW AROUND THE GARDEN. IF THE GARDEN OVERFLOW DEVICE IS AN EARTHEN BERM OR LIP, CHECK FOR EROSION AND REPAIR AS SOON AS POSSIBLE. IF THIS CONTINUES, A HARDER ARMORING OF STONE MAY BE NECESSARY. MAKE SURE ALL APPROPRIATE ELEVATIONS HAVE BEEN MAINTAINED, NO SETTLEMENT HAS OCCURRED AND NO LOW SPOTS HAVE BEEN CREATED.

| STORMWATER MANAGEMENT PRACTICE | * RESPONSIBLE MAINTENANCE ENTITY | RESPONSIBLE MAINTENANCE CONTACT INFO | INSPECTION FREQUENCY | MAINTENANCE REQUIRED | GENERAL NOTES |
|--------------------------------|----------------------------------|--|---|--|---|
| INDIVIDUAL RAIN GARDEN | HOMEOWNERS & DISTRICT | AS PER DEED OF RECORD ONFILE WITH THE DUTCHESS COUNTY CLERKS OFFICE. | WATERING, WEEDING, DEBRIS REMOVAL, AND REPLANTING AS REQUIRED WHEN REQUIRED TO MAINTAIN THE HEALTH OF THE GARDEN. | GENERAL INSPECTION - WATERING, WEEDING, & REMOVE DEBRIS, REPLANT AS REQUIRED | RAIN GARDENS ARE INTENDED TO BE RELATIVELY LOW MAINTENANCE. WEEDING AND WATERING ARE ESSENTIAL THE FIRST YEAR, AND CAN BE MINIMIZED WITH THE USE OF A WEED FREE MULCH LAYER. RAIN GARDENS SHOULD BE TREATED AS A COMPONENT OF THE LANDSCAPING, WITH ROUTINE MAINTENANCE PROVIDED BY THE HOMEOWNER, INCLUDING THE OCCASIONAL REPLACEMENT OF PLANTS, MULCHING, WEEDING AND THINNING TO MAINTAIN THE DESIRED APPEARANCE. |

2-18-25 Type III 24-hr 100-YEAR Rainfall=8.22"
Prepared by Day & Stokosa Engineering PC Printed 2/19/2025
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Summary for Pond RG1: (RAIN GARDEN #1)

| Volume #1 | Invert | Avail Storage | Storage Description |
|------------------|-------------------|---|-------------------------|
| 288.67 | 61 cf | Custom Stage Data (Prismatic) listed below (Recalc) | |
| Elevation (feet) | Surf Area (sq ft) | Inc. Store (cubic-feet) | Cum. Store (cubic-feet) |
| 288.57 | 53 | 0 | 0 |
| 288.00 | 59 | 7 | 7 |
| 288.20 | 81 | 14 | 21 |
| 289.40 | 103 | 18 | 40 |
| 289.60 | 115 | 22 | 61 |

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Summary for Pond RG2: (RAIN GARDEN #2)

| Volume #1 | Invert | Avail Storage | Storage Description |
|------------------|-------------------|---|-------------------------|
| 287.95 | 62 cf | Custom Stage Data (Prismatic) listed below (Recalc) | |
| Elevation (feet) | Surf Area (sq ft) | Inc. Store (cubic-feet) | Cum. Store (cubic-feet) |
| 287.95 | 68 | 0 | 0 |
| 288.00 | 72 | 4 | 4 |
| 288.20 | 87 | 16 | 19 |
| 288.40 | 101 | 19 | 38 |
| 288.60 | 134 | 23 | 62 |

Green Infrastructure Improvements

Wq_v Calculations - Green Infrastructure Improvements Proposed
 $WQ_v = (P \times R_v \times A) / 12$
 $R_v = 0.05 + 0.009(I) > \text{Min } R_v = 0.2$
 $I = \text{Impervious Cover } (\%)$
 $P = 90\% \text{ Rainfall event (Drainage Manual, pg 4-2)}$
 $A = \text{Drainage area (acres)}$

Green Infrastructure Practice - Rain Garden (RG) - Lot #2 West & East

| Drainage Area | Total Area (SP) | Total Area (AO) | Impervious Area (AO) | Impervious Cover | R _v | R _v | P | WQ _v (ac-ft) | Req. WQ _v (cf) |
|----------------|-----------------|-----------------|----------------------|------------------|----------------|----------------|-----|-------------------------|---------------------------|
| 1/2 House Roof | 800.0 | 0.018 | 0.018 | 100% | 0.95 | 0.95 | 1.4 | 0.002 | 89 |

| Green Infrastructure Practice | Depth of Soil Media (ft) d _f | k (ft/day) | Depth of drainage layer (ft) d _l | Filter bed Drain time (h) t _f | Area of Rain Garden (ft ²) A _f |
|-------------------------------|---|------------|---|--|---|
| Rain Garden | 1.00 | 1 | 0.5 | 1.00 | 59 |

5.3.6.3.2 Sizing Criteria

- The required WQ_v is to be provided above the top of the filter media.
- Infiltration and filtration rain gardens shall be sized based on the principles of Darcy's Law. Calculate the minimum bottom area.

$$A_f = \frac{(WQ_v)(d_f)}{(k)(d_l + d_f)(t_f)}$$

Where:

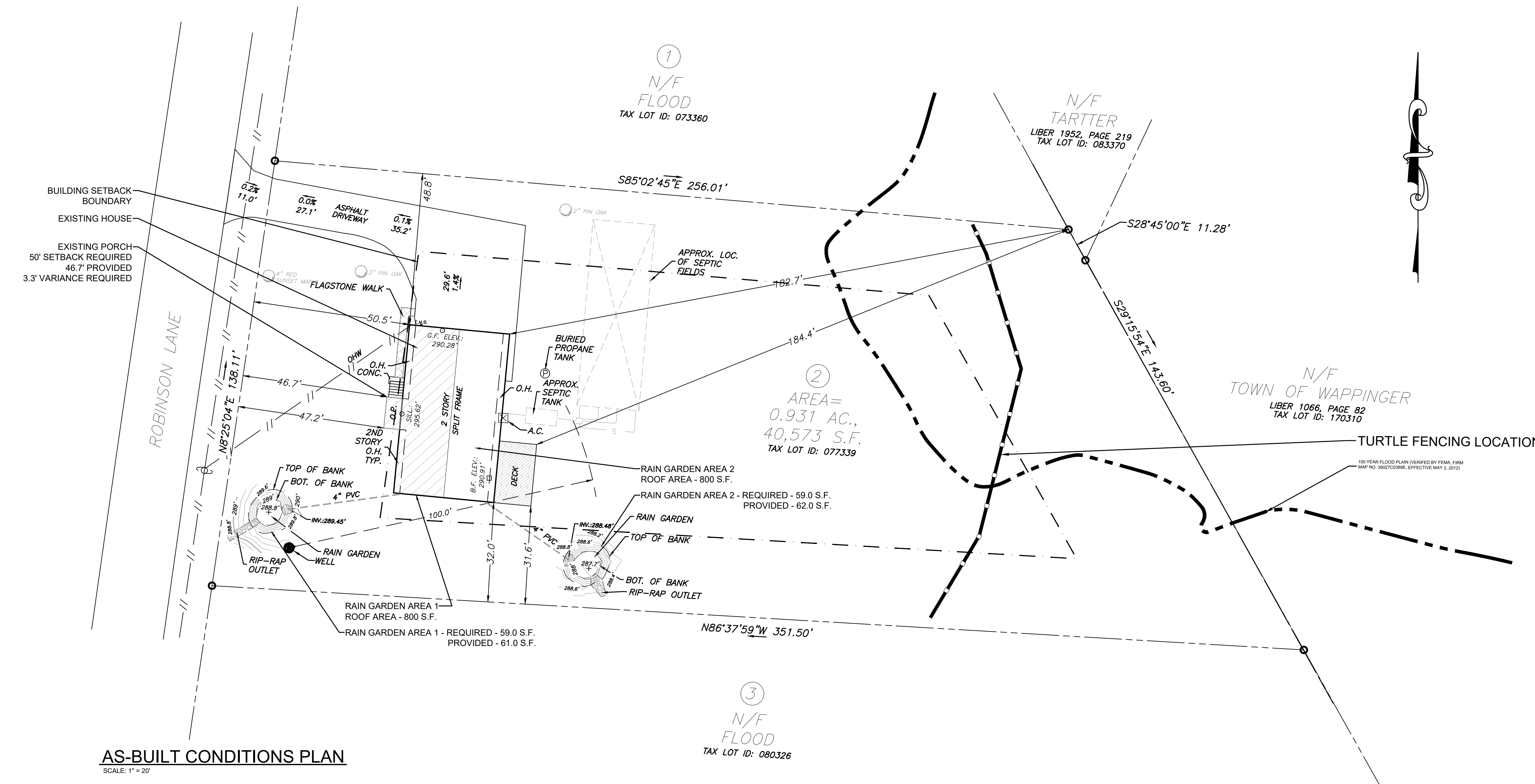
- A_f = Surface area of filter bed (sf)
- WQ_v = Water Quality Volume (cf)
- d_f = Filter bed depth (ft)
- k = Permeability flow rate of filter media (1 ft/day)
- t_f = Average height of ponding (ft) (0.5 ft max.)

RAIN GARDEN ROOF CALCULATIONS

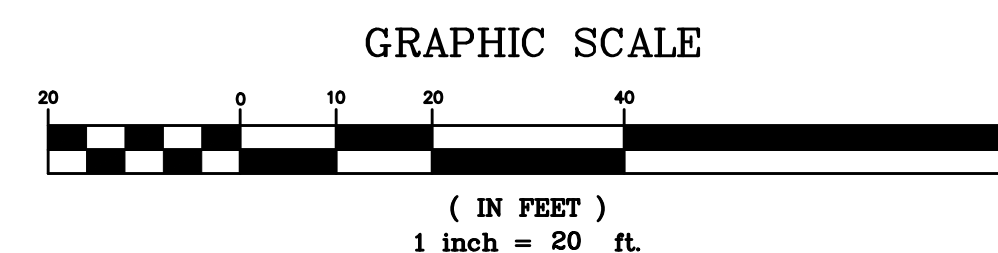
N.T.S.

SITE SPECIFIC NOTES:

- SURVEY AS-BUILT CONDITIONS TAKEN FROM MAPPING PROVIDED BY GEOLOGIC LAND SURVEYING, PLLC DATED LAST REVISED SEPTEMBER 11, 2024.



AS-BUILT CONDITIONS PLAN
SCALE: 1" = 20'



| ZONING TABLE | | | | |
|--------------|-----------------|------------|-----------|-----------|
| R-40 | LOT AREA (S.F.) | FRONT YARD | SIDE YARD | REAR YARD |
| REQUIRED | 40,000 | 50' | 25' | 50' |
| AS-BUILT | 40,573 | 46.7** | 31.6' | 182.7' |

*3.3' FRONT YARD VARIANCE REQUIRED

Brian J. Stokosa, PE

 Project No. 2022.532 License No. 083970

DAY STOKOSA
ENGINEERING P.C.

3 Van Wyck
Wappingers Falls, New York
(845)-223-3202

PROJECT
WAPPINGER FARMS ESTATES - LOT #2
PREPARED FOR DONALD A. FLOOD
FILED MAP #12764 FILED ON 09/19/2022
Town of Wappingers Dutchess County, New York

DRAWING
ZBA APPLICATION
AS-BUILT PLOT PLAN
105 ROBINSON LANE

| SCALE | DRAWN BY | DRAWING No. |
|----------|------------|-------------|
| AS NOTED | BJS | 1 |
| DATE | CHECKED BY | |
| 2-20-25 | BJS | 1 of 1 |

**Generated by REScheck-Web Software
Compliance Certificate**

Project: New Residence 2022.532

Energy Code: 2018 IECC
Location: Wappingers Falls, New York
Construction Type: Single-Family
Project Type: New Construction
Conditioned Floor Area: 2,592 R2
Glazing Area: 34%
Climate Zone: 5 (6391 HDD)
Permit Date:
Permit Number:

Construction Site: Lot #2 Wappinger Farm Estates, Town of Wappinger, NY
Owner/Agent: Kect Construction, P.O. Box 313, Wappinger, NY 12592
Designer/Contractor: Day & Stokosa, 3 Van Wyck Lane, Wappingers Falls, NY 12590

Compliance: Passes using UA trade-off

Compliance: 0.3% Better Than Code Maximum UA: 318 Your UA: 317
The UA Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules.
A UA of 0.000000 indicates a minimum energy use or cost relative to a minimum code house.
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 of Perimeter | Cavity R-Value | Cont. R-Value | Prop. U-Factor | Req. U-Factor | Prop. UA | Req. UA |
|---|-------------------------|----------------|---------------|----------------|---------------|----------|---------|
| Ceiling 1: Cathedral Ceiling (no attic) | 1,726 | 35.0 | 0.0 | 0.030 | 0.028 | 52 | 45 |
| Wall: Wood Frame, 16" o.c. | 2,284 | 21.0 | 0.0 | 0.057 | 0.050 | 107 | 113 |
| Door 2: Solid Door (under 50% glazing) | 42 | | | 0.330 | 0.300 | 10 | 13 |
| Door: Solid Door (under 50% glazing) | 18 | | | 0.140 | 0.300 | 3 | 5 |
| Door 1: Glass Door (over 50% glazing) | 79 | | | 0.300 | 0.300 | 24 | 24 |
| Window: Vinyl Frame | 261 | | | 0.300 | 0.300 | 78 | 78 |
| Wall 1: Wood Frame, 16" o.c. | 185 | 15.0 | 0.0 | 0.077 | 0.060 | 14 | 11 |
| Floor: All-Wood Joist/Truss | 667 | 30.0 | 0.0 | 0.033 | 0.033 | 22 | 22 |
| Floor 2: Slab-On-Grade (Uninsulated) | 197 | 30.0 | 0.0 | 0.033 | 0.033 | 7 | 7 |
| Insulation depth: 4" 0" | 92 | 10.0 | 0.480 | 0.540 | 0 | 0 | 0 |

Project Title: New Residence 2022.532
Data filename:
Report date: 12/12/23
Page 1 of 2

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.

BRIAN J. STOKOSA, P.E.
Name - Title
Date: 12-12-23



Project Title: New Residence 2022.532
Data filename:
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Page 2 of 2

NOTES:

- 1) ALL WINDOW SIZES CALLED OUT ON FLOOR PLANS ARE "ANDERSEN UNIT NUMBERS". IF "ANDERSEN" WINDOWS ARE NOT USED, A WINDOW OF EQUAL TYPE AND UNIT DIMENSION IS TO BE USED
- 2) ALL GLAZING TO BE DOUBLE INSULATED
- 3) ALL GLAZING TO BE "HIGH PERFORMANCE", "LOW-E" GLASS
- 4) ALL GLAZING WITHIN 18" OF FINISHED FLOOR TO BE TEMPERED

ALL OPERABLE WINDOWS THAT HAVE A SILL HEIGHT OF LESS THAN 24" ABOVE THE FINISHED FLOOR AND MORE THAN 72" ABOVE FINISHED GRADE MUST BE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F 2090

CONTRACTOR TO AFFIX AN APPROVED SIGN/SYMBOL TO THE EXTERIOR ELECTRIC BOX AT THE SERVICE POINT. THE SIGN IS TO INDICATE THE USE OF TRUSSES, PRE-ENGINEERED WOOD GIRDERS, BEAMS OR JOISTS THAT ARE BONDED WITH ADHESIVES (INCLUDING I-JOISTS, STRUCTURAL GLUED LAMINATED TIMBERS, STRUCTURAL LOG MEMBERS, STRUCTURAL COMPOSITE LUMBER & CROSS-LAMINATED TIMBER) AND/OR TIMBER CONSTRUCTION

| SQUARE FOOTAGE: | |
|--------------------|------|
| 1st FLOOR: | 1728 |
| FINISHED BASEMENT: | 864 |
| TOTAL: | 2592 |
| GARAGE: | 667 |

EGRESS REQUIREMENTS

| WINDOW | SQ.FT. CLEAR | WIDTH CLEAR | HEIGHT CLEAR |
|--------|--------------|-------------|--------------|
| 3049 | 5.7 | 32.56" | 25.20" |



RAILING & STAIR NOTES:

FRONT PORCH STAIR RAILINGS NOT SHOWN ON FRONT ELEVATION.

STAIRS WITH (4) OR MORE RISERS SHALL BE PROVIDED WITH HANDRAILS ON AT LEAST ONE SIDE. HANDRAILS SHALL BE A MINIMUM OF 34" IN HEIGHT AND NOT MORE THAN 38" IN HEIGHT. RAILS ARE TO BE MEASURED VERTICALLY FROM THE NOSING OF THE TREADS. CIRCULAR HANDRAILS SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1 1/4" AND NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR IT SHALL HAVE A PERIMETER OF AT LEAST 4" AND NOT MORE THAN 6 1/4".

PORCHES, DECKS, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS A MINIMUM OF 36" HIGH.

RISERS ARE TO BE CLOSED SUCH THAT THE OPENING BETWEEN THE TREADS DOES NOT PERMIT THE PASSAGE OF A 4" DIAMETER SPHERE.

FRONT ELEVATION

SCALE: 1/4" = 1'-0"

TABLE R301.2(1)
CLIMATE AND GEOGRAPHIC DESIGN CRITERIA

| GROUND SNOW LOAD | WIND DESIGN | | | | SEISMIC DESIGN CATEGORY | SUBJECT TO DAMAGE FROM | | | WINTER DESIGN TEMP | ICE BARRIER UNDERLYMT REQUIRED | FLOOD HAZARDS | AIR FREEZING INDEX | MEAN ANNUAL TEMP |
|------------------|-------------|---------------------|---------------------|------------------------|-------------------------|------------------------|------------------|--------------------|--------------------|--------------------------------|---------------|--------------------|------------------|
| | SPEED (mph) | TOPOGRAPHIC EFFECTS | SPECIAL WIND REGION | WIND-BORNE DEBRIS ZONE | | WEATHERING | FROST LINE DEPTH | TERMITE MOD.-HEAVY | | | | | |
| 40 | 115 MPH | NO | YES | NO | B | SEVERE | 42" | MOD.-HEAVY | -1 | YES | MAY 2, 2012 | 1500 | 47.4 |

WINDOW & DOOR SCHEDULE

| TAG/UNIT# | NO. | TYPE | MANUF. | U-FACTOR | ROUGH OPENING | MEETS EGRESS REQUIREMENTS | TEMPERED GLASS |
|--------------------------------------|-----|------------------------------------|---------------------|----------|----------------------|---------------------------|----------------|
| 3049 | 8 | DOUBLE HUNG | ANDERSON 200 SERIES | 0.30 | 3'-0" X 4'-9" | YES | NO |
| (2) 3049 | 5 | DOUBLE HUNG - MULLED | ANDERSON 200 SERIES | 0.30 | T.B.D. X 4'-9" | YES | NO |
| 3036 | 1 | DOUBLE HUNG | ANDERSON 200 SERIES | 0.30 | 3'-0" X 3'-6" | NO | NO |
| 2830 | 1 | DOUBLE HUNG | ANDERSON 200 SERIES | 0.30 | 2'-8" X 3'-0" | NO | YES |
| 2849-FX5049-2849 | 1 | DH-PICT-DH - MULLED | ANDERSON 200 SERIES | 0.30 | T.B.D. X 4'-9" | NO | NO |
| FWG6068 | 2 | FRENCHWOOD GLIDING PATIO DOOR | ANDERSON 400 SERIES | 0.30 | 6'-0" X 6'-8" | YES | YES |
| 2/8 X 6/8 | 1 | S.C.F.D. 20 MIN. RATED | T.B.D. | 0.14 | 32" X 80" *UNIT SIZE | NO | NO |
| 3/0 X 6/8 W/(2) SIDELIGHTS & TRANSOM | 1 | SIDE HINGED SWINGING DOOR | THERMATRU | 0.23 | T.B.D. | YES | YES |
| 3/0 X 6/8 | 1 | SIDE HINGED SWINGING 1/2 LITE DOOR | THERMATRU | 0.23 | T.B.D. | YES | YES |

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSONS TO ALTER THESE PLANS, SPECIFICATIONS, OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

| | |
|----------------------|--------------------|
| Brian J. Stokosa, PE | |
| 08-14-24 | |
| 06-10-24 | |
| 02-20-24 | |
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| 01-18-23 | |
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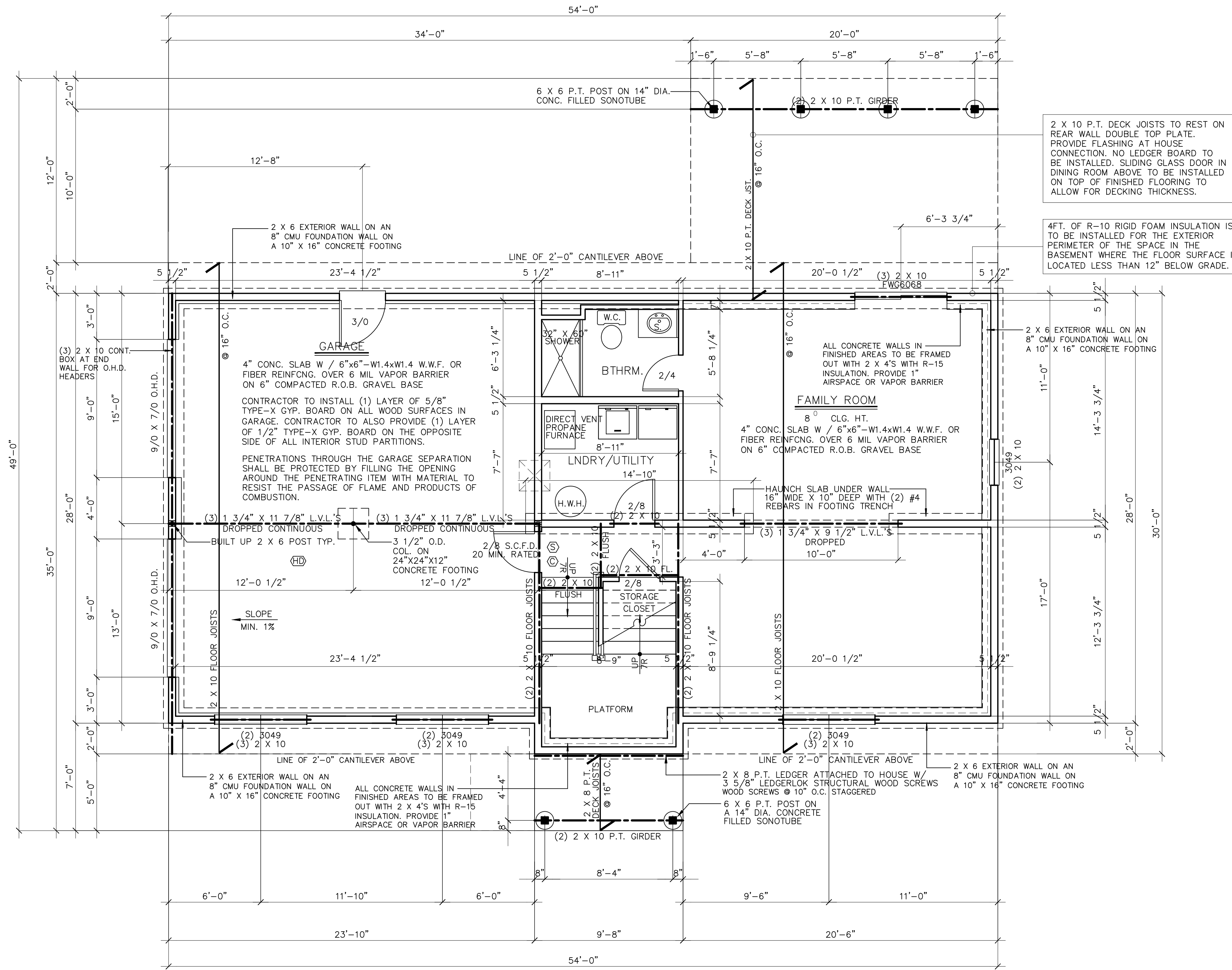
**DAY STOKOSA
ENGINEERING P.C.**

3 Van Wyck Lane
Wappingers Falls, New York
(845)-223-3202

PROJECT: Lot #2, Wappinger Farm Estates
Town of Wappinger
Dutchess County, New York

New Residence For:
Kect Construction

| | | |
|---------------------|--------------------|--|
| SCALE: 1/4" = 1'-0" | DRAWN BY: S.M.M. | |
| DATE: 01-05-23 | CHECKED BY: B.J.S. | |
| E1 | | |



2 X 10 P.T. DECK JOISTS TO REST ON REAR WALL DOUBLE TOP PLATE. PROVIDE FLASHING AT HOUSE CONNECTION. NO LEDGER BOARD TO BE INSTALLED. SLIDING GLASS DOOR IN DINING ROOM ABOVE TO BE INSTALLED ON TOP OF FINISHED FLOORING TO ALLOW FOR DECKING THICKNESS.

4FT. OF R-10 RIGID FOAM INSULATION IS TO BE INSTALLED FOR THE EXTERIOR PERIMETER OF THE SPACE IN THE BASEMENT WHERE THE FLOOR SURFACE IS LOCATED LESS THAN 12" BELOW GRADE.

NOTES:

ALL EXTERIOR WALLS ARE TO BE 2X6 WOOD STUDS
 ALL INTERIOR WALLS ARE TO BE 2X4 WOOD STUDS

DOUBLE ALL FLOOR JOISTS UNDER WALLS ABOVE, THAT ARE FRAMED PARALLEL TO FLOOR FRAMING UNLESS OTHERWISE NOTED ON PLAN.

ALL FLOOR JOISTS, CEILING JOISTS & RAFTERS ARE TO BE S.P.F.

ALL BEAMS, GIRDERS AND HEADERS ARE TO BE DOUG FIR LARCH #2 OR BETTER WITH A F_b RATING OF 875 AND A MODULUS OF ELASTICITY OF 1600000 MINIMUM UNLESS OTHERWISE NOTED ON PLAN.

ALL LAMINATED VENEER LUMBER (L.V.L.) BEAMS, GIRDERS AND HEADERS, LABELED ON PLAN, TO HAVE A F_b RATING OF 2950 AND A MODULUS OF ELASTICITY OF 2,000,000 MINIMUM UNLESS OTHERWISE NOTED ON PLAN. STRUCTURAL LAMINATED BEAMS TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.

CUTS, NOTCHES & HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUE-LAMINATED MEMBERS OR I-JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURER'S RECOMMENDATIONS.

FOR LOAD-BEARING PARTITIONS INSTALL DOUBLE JAMB STUDS UNDER HEADER FOR OPENINGS 6' AND LESS IN WIDTH. TRIPLE JAMB STUDS FOR WIDER OPENINGS. FOR NON-BEARING PARTITIONS INSTALL ONE JAMB STUD FOR OPENINGS LESS THAN 4' IN WIDTH AND DOUBLE JAMB STUDS FOR WIDER OPENINGS.

CONTRACTOR TO PROVIDE SOLID 2 X 10 BLOCKING TO BE LOCATED BETWEEN FLOOR JOISTS WHERE POSTS, FROM ABOVE, CARRYING STRUCTURAL HEADERS LAND BETWEEN FLOOR JOISTS BELOW. BLOCKING TO BE BUILT UP TO THE SAME WIDTH AS POST IT IS CARRYING ABOVE.

ALL JOISTS TO OVER LAP GIRDER OR BEARING WALL A MINIMUM OF 3".

ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE START OF CONSTRUCTION. ANY DISCREPANCIES ON THE PLANS, OR SPECIFICATIONS, MUST BE REPORTED TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

INSTALL 2 X 6 COLLAR TIES AT 32" O.C. COLLAR TIES TO BE LOCATED DOWN FROM THE MAIN RIDGE A MINIMUM OF 1/3RD OF THE TOTAL HEIGHT BETWEEN THE CEILING JOISTS AND THE TOP OF THE MAIN RIDGE.

CONTRACTOR TO VENT DRYER TO EXTERIOR SUCH THAT IT SHALL NOT TERMINATE LESS THAN 3 FEET FROM ANY OPENING INTO THE BUILDING. DRYER DUCT IS NOT TO EXCEED 25 FEET IN LENGTH AND IS TO BE CONSTRUCTED OF A MIN. OF 0.016 INCH THICK RIGID METAL DUCTS, HAVING A SMOOTH SURFACE & JOINTS RUNNING IN THE DIRECTION OF AIR FLOW. PROVIDE REDUCTION FOR EACH 90 DEGREE BEND.

BASEMENT PLAN

- (S) INTERCONNECTED 110 VOLT SMOKE DETECTOR W/ BATTERY BACKUP TESTED IN ACCORDANCE WITH UL217 & NFPA72
- (C) INTERCONNECTED CARBON MONOXIDE ALARM W/ BATTERY BACKUP TESTED IN ACCORDANCE WITH UL 2034 & CSA 6.19 - TO BE INSTALLED ON EACH FLOOR CONTAINING A SLEEPING AREA OR CARBON MONOXIDE SOURCE. TO BE INSTALLED WITHIN 15 FEET OF EACH SLEEPING AREA
- (HD) INTERCONNECTED HEAT DETECTOR W/ BATTERY BACKUP - RATED FOR AMBIENT OUTDOOR TEMPERATURES

SCALE: 1/4" = 1'-0"

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