## Project:

NEW SINGLE FAMILY HOME

### Location:

25 PAINE STREET - LOT 1 BOSTON (ROSLINDALE), MA 02131

### Prepared by:

CM KIRBY ENGINEERING, PLLC CHRISTOPHER M. KIRBY, PE P.O. BOX 291 NORWOOD, MA 02062 (617) 872-5553



FRONT ELEVATION

#### **CODE INFORMATION:**

BUILDING CODE: MA STATE BUILDING CODE, 9th EDITION 2015 IRC w/ MA AMENDMENTS

USE GROUP: R3 - SINGLE FAMILY DETACHED

CONSTRUCTION TYPE: V-B (UNPROTECTED WOOD FRAME)

#### FLOOR LOADS:

DESIGN LIVE LOADS AS PER TABLE (R)301.5:

COMMON AREAS (OTHER THAN SLEEPING): 40 PSF SLEEPING AREAS : 30 PSF RESIDENTIAL ATTICS w/ FIXED STAIRS: 30 PSF RESIDENTIAL ATTICS(STORAGE): 20 PSF RESIDENTIAL ATTICS(NO STORAGE): 10 PSF DECKS: 40 PSF

### **SNOW LOADING**:

GROUND SNOW LOAD PER TABLE (R)301.2(4): GROUND SNOW LOAD, Pg = 40 PSF

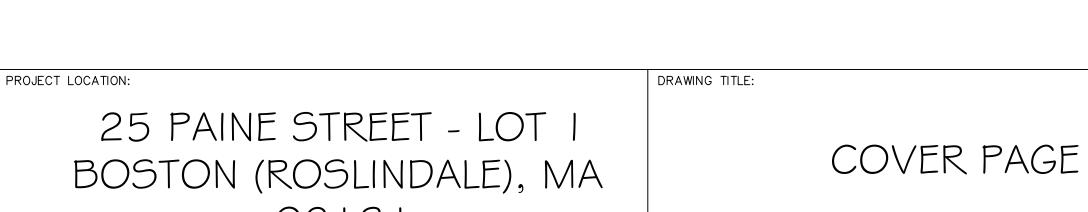
### WIND LOADING:

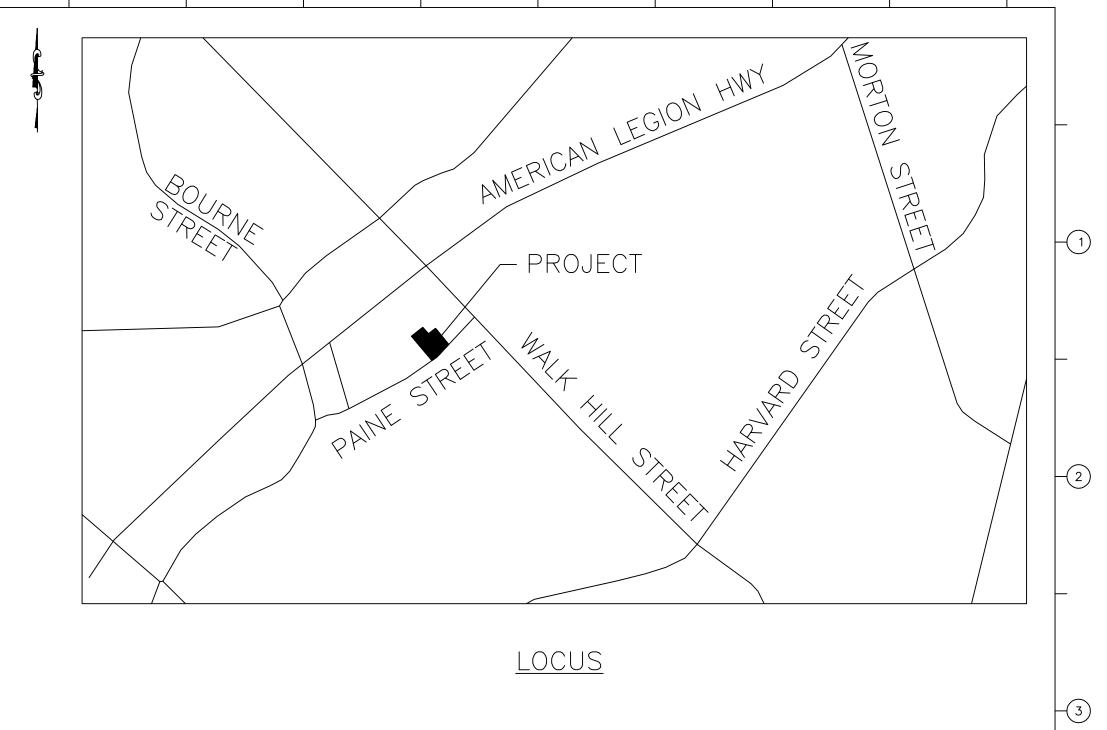
WIND LOAD PER TABLE (R)301.2(4): BASIC WIND SPEED (ULTIMATE), Vult = 128 PSF BASIC WIND SPEED (ALLOWABLE), Vasd = 100 PSF (WIND SPEED CONVERSION PER TABLE (R)301.2.1.3)

# SQUARE FOOTAGE:

= 0 SF BASEMENT FIRST FLOOR = 1242 SF= 1584 SFSECOND FLOOR ATTIC FLOOR TOTAL = 2826 SF

- 1. NO WORK SHALL COMMENCE UNTIL A BUILDING PERMIT HAS BEEN OBTAINED.
- 2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND APPROVALS REQUIRED BY THE LOCAL ZONING AND BUILDING
- DEPARTMENTS AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE, 9th EDITION 4. DRAWINGS ARE NOT TO BE SCALED. ALL WORK SHALL BE LAID OUT BY DIMENSIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER IMMEDIATELY. ALL DEVIATIONS SHALL BE CORRECTED BY CONTRACTOR BEFORE HE BEGINS HIS
- 5. DRAWINGS ARE THE PROPERTY OF THE DESIGNER AND SHALL NOT BE COPIED OR DUPLICATED IN ANY MANNER.
  6. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER AS TO PROTECT WORKMEN AND GENERAL PUBLIC FROM INJURY &
- ADJACENT PROPERTY FROM DAMAGE.
- 7. THE DRAWINGS ARE PREPARED FOR THE PURPOSE OF PERMIT APPLICATION ONLY. 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER IN CASE OF ANY OR ALL DEVIATIONS FOR THESE DRAWINGS. THE ENGINEER SHALL BE HELD HARMLESS AS A RESULT OF ANY UNAUTHORIZED CHANGES TO THESE PLANS. ADDITIONAL FEES MAY OCCUR FOR "AS-BUILT" DOCUMENTATION DUE TO CIRCUMSTANCES BEYOND THE ENGINEERS CONTROL, OR OWNER / CONTRACTOR CHANGES TO THESE DRAWINGS.





### DRAWING LIST

- 1. COVER PAGE
- 2. SITE PLAN
- 3. GENERAL NOTES
- 4. ELEVATIONS
- BASEMENT & FIRST FLOOR PLANS
- 6. SECOND & ATTIC FLOOR PLANS
- 7. FOUNDATION & FIRST FLOOR FRAMING PLANS
- SECOND FLOOR, CEILING & ROOF FRAMING PLANS

DRAWING NO.

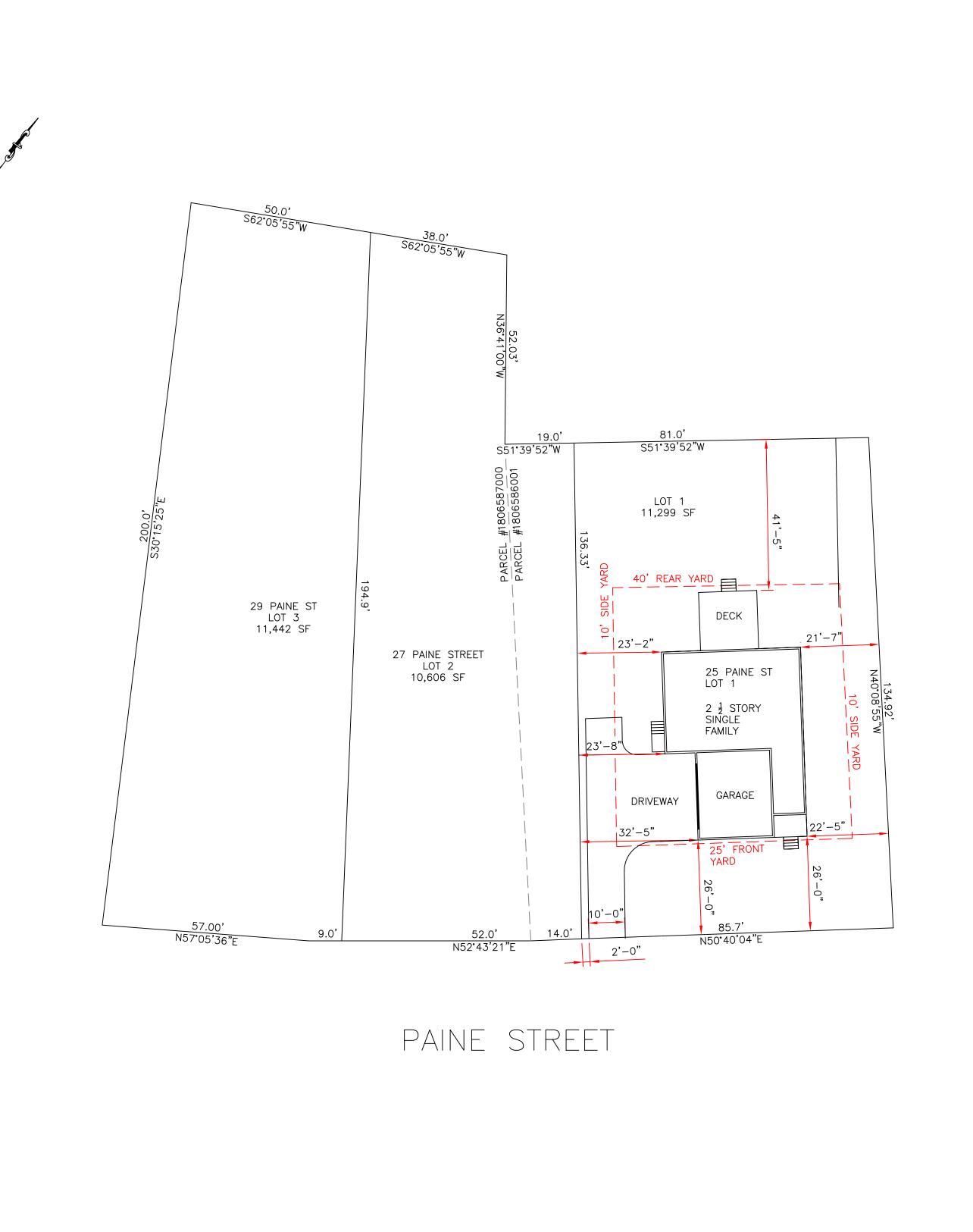
REVISION NO.

- 9. CROSS SECTIONS
- 10. STANDARD DETAILS

CMK FOR SUBMISSION 0 | 2/11/2021 | DATE REMARKS

CM KIRBY ENGINEERING, PLLC P.O. BOX 291 NORWOOD, MA 02062

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# NOTE

- 1. SEE CITY OF BOSTON ASSESSORS PARCELS #1806587000 AND #1806586001 FOR THE SITE. SITE IS KNOWN AS #27 PAINE STREET IN DEED BOOK. THE TWO PARCELS WILL BE SUBDIVIDED INTO THREE PARCELS TO CREATE LOTS 1, 2 AND 3 - 27 PAINE STREET.
- 2. ZONE DISTRICT: ROSLINDALE NEIGHBORHOOD ZONING SUBDISTRICT: 1F-6000 SUBDISTRICT TYPE: SINGLE-FAMILY RESIDENTIAL ZONING OVERLAY DISTRICT: NEIGHBORHOOD DESIGN REVIEW OTHER LAYER: PARKS DESIGN REVIEW, ORDINANCE 7.4-11

|   |   | ning Table<br>EET - LOT 1 - 1 FAN | MILY       |  |  |  |  |
|---|---|-----------------------------------|------------|--|--|--|--|
| Zoning Tables Dimensional Requirements 1F-6000 - ROSLINDALE |   |                                   |            |  |  |  |  |
| Dimensional<br>Regulations                                  | Requirements for<br>Residential<br>Subdistrict<br>1F-6000 | Proposed                          | Comment    |  |  |  |  |
| Lot Area, sf  | 6000  | 11299                             | CONFORMING |  |  |  |  |
| Lot Width, ft   | 60  | 85.7                              | CONFORMING |  |  |  |  |
| Lot Frontage, ft  | 60  | 85.7                              | CONFORMING |  |  |  |  |
| F/A/R<br>(Max.)   | 0.5   | 0.25 (2826 sf ±)                  | CONFORMING |  |  |  |  |
| Building height (stories)                                   | $2\frac{1}{2}$  | $2\frac{1}{2}$                    | CONFORMING |  |  |  |  |
| Building height (feet)                                      | 35'-0"  | 29'-1" Grade @<br>Sidewalk        | CONFORMING |  |  |  |  |
| Usable Open Space<br>per Dwelling Unit                      | 1800 sf   | 7651 sf ±                         | CONFORMING |  |  |  |  |
| Front Yard<br>Depth, ft                                     | 25  | 26.0                              | CONFORMING |  |  |  |  |
| Side Yard<br>Depth, ft                                      | 10  | 21.58                             | CONFORMING |  |  |  |  |
| Rear Yard<br>Depth, ft                                      | 40  | 41.42                             | CONFORMING |  |  |  |  |
| Rear yard Max. Occ. by Accessory Buildings                  | 25%   | N/A                               | CONFORMING |  |  |  |  |

SCALE I"=20' (22x34 PAPER) CMK FOR SUBMISSION REMARKS

0' 10' 20' 40'

CM KIRBY ENGINEERING, PLLC P.O. BOX 291

NORWOOD, MA 02062 (617) 872-5553 PE LICENSE No. 41662, EXP 6/30/2022

25 PAINE STREET - LOT I BOSTON (ROSLINDALE), MA 02131

SITE PLAN

DRAWING NO. REVISION NO.

#### GENERAL CONSTRUCTION NOTES

- 1. ALL DIMENSIONS ARE CALCULATED FROM OUTSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF INTERIOR STUD WALLS UNLESS OTHERWISE NOTED. STUD WALLS NOT DIMENSIONED ARE TYPICALLY 2x6 (5 1/2") FOR BOTH INTERIOR AND EXTERIOR WALLS.
- 2. THE PROJECT IS A NEW STRUCTURE. EXACT DIMENSIONS, ELEVATIONS, TIE-IN POINTS, ROOF SLOPES, BEARING POINT LOCATIONS ARE REPRESENTED AS ACCURATE AS KNOWN AT THE TIME OF THE DRAWING SET CREATION. FIELD VERIFICATION OF ALL ELEMENTS IS REQUIRED BY THE CONTRACTOR AND IF INCONSISTENCIES OCCUR, NOTIFY THE ENGINEER FOR DIRECTION. THE ENGINEER IS NOT RESPONSIBLE FOR CHANGES TO THE PLANS WITHOUT DIRECTION.
- 3. WINDOWS APPEARING ON THE FLOOR PLANS AND EXTERIOR ELEVATIONS ARE TO BE CONFIRMED BY
- 4. THE WINDOW FINAL SILL HEIGHT AT THE FIRST FLOOR IS 24" ABOVE FINISH FLOOR UNLESS NOTED
- 5. GENERAL CONTRACTOR TO REVIEW ALL BUILT IN REQUIREMENTS WITH THE OWNER INCLUDING SHELVING, CLOSETS, PANTRY, ETC., IF APPLICABLE.
- 6. ALL REQUIREMENTS FOR SECURITY SYSTEMS, CENTRAL VACUUM, AND ANY AUDIO, COMPUTER OR CABLE TELEVISION SYSTEMS TO BE COORDINATED WITH OWNER.
- 7. ALL PERMITS AND VARIANCES, IF NECESSARY, ARE THE RESPONSIBILITY OF THE OWNER AND GENERAL CONTRACTOR PRIOR TO START OF CONST.
- 8. ALL FINISH COLORS TO BE THE RESPONSIBILITY OF THE OWNER.

#### GENERAL FLOOR PLAN NOTES

- 1. DO NOT SCALE DRAWINGS. FOLLOW DRAWING DIMENSIONS ONLY. DIMENSION IS NOT CALLED OUT, VERIFY DIMENSIONS WITH ENGINEER.
- 2. ALL DIMENSIONS ARE CALCULATED FROM OUTSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF INTERIOR STUD WALLS (UNO). STUD WALLS NOT DIMENSIONED ARE TYPICALLY 2x6 FOR EXTERIOR WALLS AND 2x4 FOR INTERIOR WALLS (UNO).
- 3. ALL INTERIOR WALLS ARE TO BE COVERED WITH 1/2" GYPSUM BOARD, METAL CORNER REINFORCING, TAPE SEAMS AND PLASTER SKIMCOAT.
- 4. ALL WALLS IN THE GARAGE TO HAVE A LAYER OF 5/8", TYPE "X" FIRE RATED GYPSUM
- 5. ALL BATH AND TOILET AREA WALLS AND CEILINGS ADJACENT TO WET AREAS TO HAVE WATER
- RESISTANT GYPSUM BOARD. 6. BEDROOM WINDOWS TO HAVE A MINIMUM NET CLEAR OPENING OF 3.38 SQFT., A MINIMUM NET CLEAR OPENING OF 20" WIDE x 24" HIGH IN EITHER DIRECTION, AND HAVE A MAXIMUM
- FINISHED SILL HEIGHT OF 44" FROM FINISHED FLOOR. 7. ALL GLASS LOCATED WITHIN 18" OF FLOOR OR 24" OF A DOOR SWING MUST BE TEMPERED
- 8. BATHROOMS AND UTILITY ROOMS TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF 50 CFM FAN. RANGE HOODS TO BE VENTED TO THE OUTSIDE.
- 9. SUBCONTRACTOR TO FIELD VERIFY ALL CABINET DIMENSIONS BEFORE FABRICATION.

#### GENERAL ELEVATION NOTES

- 1. ICE & WATER SHIELD TO BE INSTALLED CORRECTLY AT ALL CONNECTIONS BETWEEN ROOFS, WALLS, CHIMNEYS, PROJECTIONS, AND PENETRATIONS AND UNDER FIRST 36" OF PERIMETER OF ROOF.
- 2. ICE & WATER SHIELD TO BE PLACE OVER ENTIRE ROOF SURFACE WHEN ROOF SLOPE IS
- 3. ADEQUATE ATTIC VENTILATION AND ROOF VENTS ARE TO BE PROVIDED AS SHOWN ON
- 4. ALL PLUMBING AND MECHANICAL VENTS TO BE LOCATED CLOSE TOGETHER WITHIN THE ATTIC SPACE WHEN POSSIBLE TO MINIMIZE THE NUMBER OF ROOF PENETRATIONS. ALL PLUMBING AND MECHANICAL VENTS WHICH APPEAR ABOVE THE ROOF TO BE LOCATED AWAY FROM ANY PROMINENT VIEW. NO VENT TO BE ALLOWED ON THE FRONT ROOF. ALL METAL AND PVC VENTS AND PENETRATIONS TO BE PRIMED AND PAINTED TO CLOSELY MATCH ROOF COLOR.
- 5. GUTTERS AND DOWN SPOUTS ARE NOT LOCATED ON ELEVATION DRAWINGS. LOCATIONS OF DOWN SPOUTS ARE TO BE DETERMINED ON-SITE DUE TO TOPOGRAPHICAL CONDITIONS TO ALLOW POSITIVE DRAINAGE AWAY FROM THE HOUSE. DOWN SPOUTS NOT TO BE LOCATED IN PROMINENT LOCATIONS, GUTTERS AND DOWN SPOUTS ARE TO CLOSELY MATCH TRIM COLOR OF THE HOUSE.
- 6. ALL FLASHING TO BE OF THE SAME MATERIAL. DISSIMILAR METALS NOT ALLOWED. 7. OWNER RESPONSIBLE FOR SELECTING ROOF COLOR.

#### GENERAL STAIRWAY NOTES

- 1. STAIRWAYS SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND THE PERMITTED HEADROOM HEIGHT. THE MINIMUM WIDTH AT OR BELOW THE HANDRAIL HEIGHT SHALL NOT BE LESS THAN 32" WHERE A HANDRAIL IS INSTALLED ON ONE SIDE AND 28" WHERE HANDRAILS ARE PROVIDED ON BOTH SIDES.
- 2. THE MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR THE NOSING FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM.
- 3. THE MAXIMUM RISER HEIGHT SHALL BE 8 1/4" AND THE MINIMUM TREAD DEPTH SHALL BE 9". TREAD NOSING SHALL NOT EXTEND MORE THAN 1 1/2" BEYOND THE FACE OF THE RISER
- 4. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30" ABOVE THE FLOOR/GRADE SHALL HAVE GUARDRAILS, WHICH SHALL ALSO SERVE AS HANDRAILS, NOT LESS THAN 36" IN **HEIGHT**
- 5. REQUIRED GUARDRAILS ON OPEN SIDES OF STAIRWAYS, BALCONIES, PORCHES, DECKS AND RAISED FLOOR AREAS, SHALL HAVE BALUSTERS WHICH PREVENT THE PASSAGE OF AN OBJECT 4" OR MORE IN DIAMETER.

#### GENERAL FOUNDATION NOTES

- 1. ALL FOUNDATIONS TO HAVE 48" COVER, MIN
- 2. ALL CONCRETE WORK SHALL CONFORM WITH THE LATEST REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI).
- 3. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT THE END OF 28 DAYS SHALL BE 4000
- 4. ALL SLABS TO BE PLACED ON A 6 MIL VAPOR BARRIER OVER 6" OF COMPACTED GRAVEL.
- 5. PROVIDE A 1/2" EXPANSION JOINT MATERIAL BETWEEN ALL CONCRETE SLABS ON ABUTTING CONCRETE OR MASONRY WALLS OCCURRING IN EXTERIOR OR UNHEATED AREAS.
- 6. PROVIDE DEEP SCORE CONTROL JOINTS AT MID POINTS OF ALL SLABS, BOTH DIRECTIONS.
- 7. ALL FOUNDATION WALLS SHALL RECEIVE A MINIMUM OF 1 COAT OF ASPHALT DAMPPROOFING OVER ROOF CEMENT PARGED TIE-ROD HOLES.
- 8. ALL FOUNDATIONS SHALL BE PLACE A MINIMUM OF 1'-0" ABOVE THE SEASONAL HIGH GROUNDWATER TABLE. THE SEASONAL HIGH GROUNDWATER TABLE ELEVATION SHALL BE DETERMINED BY OTHERS.

#### SMOKE, CARBON MONOXIDE AND HEAT ALARMS

- 1. INSTALL THE REQUIRED SMOKE ALARMS, CARBON MONOXIDE ALARMS AND HEAT DETECTORS PER 2015 IRC SECTION R314, NFPA 70 AND APPENDIX J OF THE MASSACHUSETTS RESIDENTIAL AMENDMENTS.
- 2. WHERE MORE THAN 1 DEVICE (SMOKE, CARBON MONOXIDE OR HEAT) IS REQUIRED, THE ALARM DEVICES SHALL BE INTERCONNECTED, R314.4
- SMOKE ALARMS SHALL BE THE PHOTOELECTRIC TYPE, R314.1.1
- 4. SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS, R314.3:
- 4.1. IN EACH SLEEPING ROOM 4.2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS
- 4.3. ON EACH STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS, AND NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS
- 4.4. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN THREE FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER
- 4.5. FOR EACH 1,000 SF OF AREA OR PART THEREOF 4.6. NEAR ALL STAIRS
- 5. HEAT DETECTORS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS, R314.8: 5.1. ANY GARAGE ATTACHED TO OR UNDER THE DWELLING
- 6. COMMON AREAS, R314.9
- 6.1. IN ALL BUILDINGS WHICH ARE NOT PROTECTED WITH SPRINKLERS, EACH UNIT SHALL HAVE ADDITIONAL INTERCONNECTED SMOKE DETECTORS ON THE STAIRWAY SIDE OF ALL DOORS LEADING TO COMMON INTERIOR STAIRWAYS. IF THERE IS A COMMON BASEMENT, A SEPARATE INTERCONNECTED SYSTEM OF SMOKE DETECTORS, INCLUDING SMOKE DETECTORS ON THE STAIRWAY SIDE OF ALL DOORS LEADIING TO INTERIOR STAIRWAYS, SHALL BE PROVIDED TO SERVE THE BASEMENT LEVEL ONLY.
- 7. CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS, R315.3: 7.1. SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA WITHIN 10 FEET OF THE
- 7.2. ONE ALARM ON EACH STORY OF THE DWELLING UNIT, INCLUDING BASEMENTS AND CELLARS BUT NOT CRAWL SPACES OR UNINHABITABLE ATTICS.

### GENERAL FRAMING NOTES:

| LOCATION         | LIVE (PSF) | DEAD   | (PSF) DEI | FLECTION |    |     |
|------------------|------------|--------|-----------|----------|----|-----|
| COMMON AREAS     |            | 40     | 1         | 5        | L/ | 360 |
| SLEEPING AREAS   |            | 30     | 1         | 5        | L/ | 360 |
| ATTIC (STORAGE)  |            | 20     | 1         | 5        | L/ | 240 |
| ATTIC (NO STORAG | SE)        | 10     | 1         | 5        | L/ | 240 |
| ROOF (SNOW LOAD  | O)         | VARIES | 1         | 5        | L/ | 240 |
| DECK             |            | 40     | 1         | 5        | L/ | 360 |
| BALCONY          |            | 60     | 1         | 5        | L/ | 360 |
|                  |            |        |           |          |    |     |

- 1. ALL FRAMING MATERIAL TO BE MINIMUM #2 OR BETTER KD LUMBER,
- 2. ALL WOOD FRAMING IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESSURE
- 3. PROVIDE DOUBLE FLOOR JOISTS UNDER ALL WALLS WHICH RUN PARALLEL TO THE DIRECTION OF THE JOIST SPAN,
- 4. PROVIDE 1"x3" CROSS BRIDGING OR 2"x6" BLOCKING AT THE MIDSPAN OF ALL
- 5. FLOOR CONSTRUCTION: 3/4" TONGUE AND GROOVE SUBFLOOR GLUED AND SCREWED TO FLOOR FRAMING. FINISH FLOORING TO BE EITHER 3/4" HARDWOOD,
- 6. ALL STUD FRAMED WALLS TO BE FRAMED AT 16" ON CENTER, MAXIMUM,
- 7. ALL ANGLED WALLS ARE TO BE FRAMED AT 45 DEGREES (UNO),
- 8. HEADER SIZE OVER WINDOWS TO BE (3)2"x8" (UNO),
- 9. ALL HEADERS TO BE FREE FROM SPLITS AND CHECKS.
- 10. PROVIDE FULL SOLID BEARING OR STUD BEARING UNDER ALL BEAM BEARING POINTS, 11. ALL BEAM AND JOIST INTERSECTIONS TO BE FLUSH FRAMED WITH GALVANIZED JOIST
- HANGERS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS,
- 12. ALL BEAMS TO HAVE TRIPLE STUD BEARING UNDER EACH END,
- 13. FOR LVL'S (3) XX LVL MEANS "3 PLY" XX LVL'S,
- 14. UNLESS OTHERWISE NOTED, PROVIDE DOUBLE HEADER JOIST AND TRIMMERS AT ALL FLOOR OPENINGS,
- 15. STAIR CONSTRUCTION TO CONSIST OF 3-2"x12" STRINGERS, MINIMUM,
- 16. TEMPORARY GUARDRAILS MUST BE INSTALLED AT ALL FLOOR OPENINGS,
- 17. ALL WALLS OVER 10'-0" HIGH TO BE 2"x6"s AT 16" ON CENTER AND RECEIVE 1
- ROW OF 2"x6" BLOCKING AT MID-HEIGHT, 18. 2"x6" EXTERIOR WALLS TO BE SHEATHED WITH 1/2" EXTERIOR GRADE PLYWOOD. SHEATHING TO SPAN OVER ALL PLATES AND HEADERS. INSTALL SHEATHING WITH AN 1/8" GAP BETWEEN PANELS AND BLOCK ALL SEAMS — BOTH VERTICAL AND
- 19. FLOOR FRAMING LAYOUT IS CONSTRUCTED AS TO PROVIDE BEST POSSIBLE ACCESS TO THE HVAC DUCTS AND UNOBSTRUCTED RUNS FOR THE DUCT WORK,
- 20. PROVIDE BLOCKING AT ALL CABINET LOCATIONS,
- 21. PROVIDE 2"x4" RAFTER TIES AT ALL PLATES WHERE JOIST RUN IS PERPENDICULAR TO RAFTERS,
- 22. HIP VALLEY RAFTERS AND RIDGE BOARDS TO BE ONE SIZE LARGER THAN TYPICAL RAFTERS UNLESS OTHERWISE NOTED ON PLANS,
- 23. PROVIDE 1"x6" COLLAR TIES AT UPPER 1/3 OF VERTICAL DISTANCE BETWEEN RIDGE
- BOARD AND CEILING JOIST AT 48" ON-CENTER, 24. PROVIDE INSULATION BAFFLES AT EAVE VENTS BETWEEN RAFTERS,
- 25. REQUIRED GUARDRAILS ON BALCONIES, PORCHES, DECKS, AND RAISED FLOOR AREAS, SHALL HAVE A MINIMUM HEIGHT OF 36" MEASURED VERTICALLY FROM THE FINISHED
- 26. ALL HARDWARE AND FLASHING IN CONTACT WITH ACQ TREATED LUMBER MUST BE
- HOT DIPPED GALVANIZED OR STAINLESS STEEL, 27. INSTALL ALL LUMBER PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS,
- 28. INSTALL FASTENERS PER TABLE (R)602.3(1) OF LATEST EDITION OF THE MA STATE
- 29. IF ON-SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY FOR DIRECTION.

#### GENERAL ELECTRICAL NOTES

- 1. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ADHERING TO ALL CODES AND
- 2. GENERAL AND ELECTRICAL CONTRACTOR TO REVIEW THE PLAN(S) AND WALK THROUGH THE JOB TO VERIFY THAT THE DESIGN INTENT IS MAINTAINED.
- 3. ELECTRICAL SERVICE TO BE PROVIDED AS REQUIRED FOR ALL APPLIANCES AND EQUIPMENT SUCH AS REFRIGERATOR, DISH WASHER, DISPOSAL, HVAC EQUIPMENT, ALARM PANEL, LAWN SPRINKLER SYSTEM, ETC. OUTLET TO BE PROVIDED ABOVE THE RANGE FOR MICROWAVE OR HOOD VENT IF FINAL KITCHEN LAYOUT REQUIRES.
- 4. ALL OUTLETS PLACED NEAR ANY WATER CONDITION TO BE G.F.C.I.
- SWITCHES AND OUTLETS TO BE COORDINATED WITH OWNER.
- PROVIDE EXTERIOR WATERPROOF OUTLETS AS REQUIRED BY CODE. ALL PHONE OUTLETS, COMPUTER OUTLETS, CABLE TV OUTLETS, AND ELECTRONIC
- DEVICE OUTLETS TO BE VERIFIED BY OWNER. 8. DIMMERS TO BE SIZED FOR THE APPROPRIATE LOAD OF THE FIXTURES AND LAMPS
- 9. VERIFY TRIM SIZE FOR ALL DOORS AND WINDOWS PRIOR TO LOCATING SWITCHES. ALL
- LOCATIONS SHOULD BE CLOSE TO TRIM AND ALIGNED WITH ONE ANOTHER, IF THERE ARE MULTIPLE.
- 10. BLOCK AND PREWIRE SEPARATE SWITCHES TO EACH LIGHT AND CEILING.
- 11. IF EXTERIOR SECURITY LIGHTING IS DESIRED BY OWNER THE TYPE, LOCATION, AND REQUIRED SWITCHING MUST ALL BE VERIFIED BY OWNER.
- 12. IF AN ALARM IS DESIRED ALL OF THE REQUIREMENTS MUST BE COORDINATED WITH THE
- 13. PANEL BOX TO BE SIZED TO ACCOMMODATE ALL CALCULATED LOADS AND PROVIDE FOR
- A MINIMUM OF EIGHT (8) SPARES. 14. RECESSED FIXTURES LOCATED IN FIRE RATED WALLS (i.e. - GARAGE CEILINGS OR FIRE SEPARATION ASSEMBLIES) SHALL BE RATED FIXTURES, FIRE RATED TO THE LEVEL OF
- FIRE SEPARATION OF THE WALL/CEILING IN WHICH THE FIXTURE IS INSTALLED. 15. PROVIDE ENERGY EFFICIENT LIGHTING AS REQUIRED PER THE 2015 IECC.

### GENERAL PLUMBING/HVAC NOTES

- 1. PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL APPLICABLE CODES
- AND SAFETY REQUIREMENTS. 2. PROVIDE GAS SERVICE TO ALL WATER HEATERS, APPLIANCES, AND HVAC EQUIPMENT, AS
- 3. IF WALL PLATES OR JOISTS ARE CUT DURING INSTALLATION OF PLUMBING FIXTURES OR EQUIPMENT, PROVIDE BRACING TO TIE FRAMING BACK TOGETHER.
- 4. ALL GAS WATER HEATERS TO BE VENTED AT TOPOUT. 5. ALL PLUMBING AND MECHANICAL VENT STACKS TO BE LOCATED CLOSE TOGETHER IN THE ATTIC. VENT STACKS TO BE LOCATED TO THE REAR OF THE HOUSE AWAY FROM PROMINENT VIEW. ALL VENT STACKS TO BE PRIMED AND PAINTED TO CLOSELY MATCH
- 6. HVAC CONTRACTOR TO PROPERLY SIZE HEATING AND COOLING SYSTEM FOR THE
- 7. IF A NEW KITCHEN EXHAUST FAN OVER 400 CFM IS INSTALLED, AN OUTSIDE MAKE-UP AIR SYSTEM IS REQUIRED.

### **ENERGY EFFICIENCY**

DRAWING TITLE:

- 1. ENERGY EFFICIENCY TO BE THE "PRESCRIPTIVE METHOD" IN ACCORDANCE WITH CHAPTER 4 (RESIDENTIAL ENERGY EFFICIENCY) OF THE THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE (2015 IECC). SEE THIS CHAPTER FOR COMPLETE
- 2. THE BUILDINGS (NEW PORTION) THERMAL ENVELOPE SHALL MEET THE REQUIREMENTS OF TABLE R402.1.2. A SHORT VERSION OF TABLE R402.1.2 IS LISTED BELOW AND THE FULL VERSION SHALL BE REVIEWED FOR COMPLETE REQUIREMENTS.
- 3. THE 2015 IECC HAS STRICT REQUIREMENTS FOR ENERGY EFFICIENCY AND CHANGES TO THE CODE INCLUDE: HIGHER WALL R-VALUES. PERMANENT CERTIFICATE OF BUILDING COMPONENTS POSTED, AIR LEAKAGE TEST, BASEMENT INSULATION TO A DEPTH OF 10 FEET BELOW GRADE OR THE BASEMENT FLOOR (WHICHEVER IS LESS). RIM JOIST/WALL SEALING, RECESSED LIGHTING SHALL BE SEALED FIXTURES, JUNCTION BOXES ON EXTERIOR WALLS SHALL BE INSULATED, ATTIC ACCESS SHALL BE SEALED,
- 4. THE TOWN OF XXXXXX HAS ADOPTED THE "STRETCH ENERGY CODE". ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS MAY APPLY.

| TABLE R402.1.2 - PARTIAL LIST (2015 IECC) |                          |                      |    |                               |                  |  |
|---|--------------------------|----------------------|----|-------------------------------|------------------|--|
| CLIMATE<br>ZONE                           | FENESTRATION<br>U-FACTOR | SKYLIGHT<br>U-FACTOR |    | WOOD<br>FRAME WALL<br>R-VALUE | FLOOR<br>R-VALUE |  |
| 5   | 0.30                     | 0.55                 | 49 | 20                            | 30               |  |

0 | 2/11/2021 | CMK | FOR SUBMISSION REV. NO. DATE **REMARKS** 

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GENERAL NOTES

REVISION NO.

DRAWING NO.

