PROPOSED 4 CONDO UNITS FOR:

MANFIELD SBG

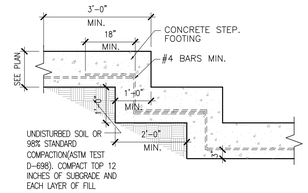
13 HAWTHORN DRIVE
VILLAGE OF S. BLOOMING GROVE
ORANGE COUNTY, NEW YORK

INDEX

RELEASE DATE:
12/23/2025

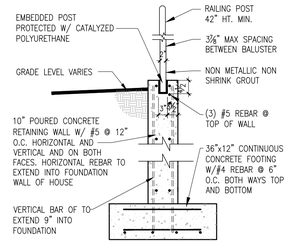
Hartman Design
COMMERCIAL • RESIDENTIAL

412 N. MAIN STREET. SUITE 301
MONROE NY 10950 845-781-4222
LARRY@LHARTMANDESIGN.COM



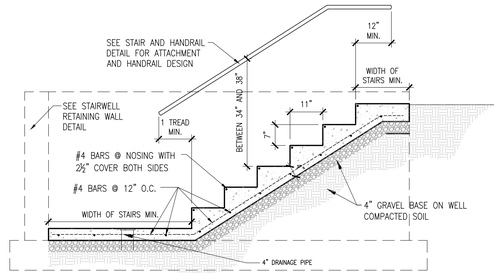
2 A-101 STEPED FOOTING DETAIL

SCALE: 1/2" =1'-0"



3 A-101 STAIRWELL RETAINING WALL

SCALE: 1/2" =1'-0"



4 A-101 STAIRWELL STAIRS DETAIL

SCALE: 1/2" =1'-0"

FOOTING LEGEND

F2	2'-0" x 2'-0" BY 12" THICK W/ #4 REBARS @ 6" O.C. BOTH WAYS BOTTOM
F2.5	2'-6" x 2'-6" BY 12" THICK W/ #4 REBARS @ 6" O.C. BOTH WAYS BOTTOM
F3.5	3'-6" x 3'-6" BY 12" THICK W/ #4 REBARS @ 6" O.C. BOTH WAYS BOTTOM
SN4	14" SONO TUBE 3'-6" BELOW GRADE W/ (4) #4 REBAR (TYP.)
SN6	16" SONO TUBE 3'-6" BELOW GRADE W/ (4) #4 REBAR (TYP.)

1 A-101 FOUNDATION PLAN

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

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LICENSE NO: 082844

PROPOSED 4 CONDO UNITS FOR:

MANFIED SBG

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WRITTEN STATEMENT

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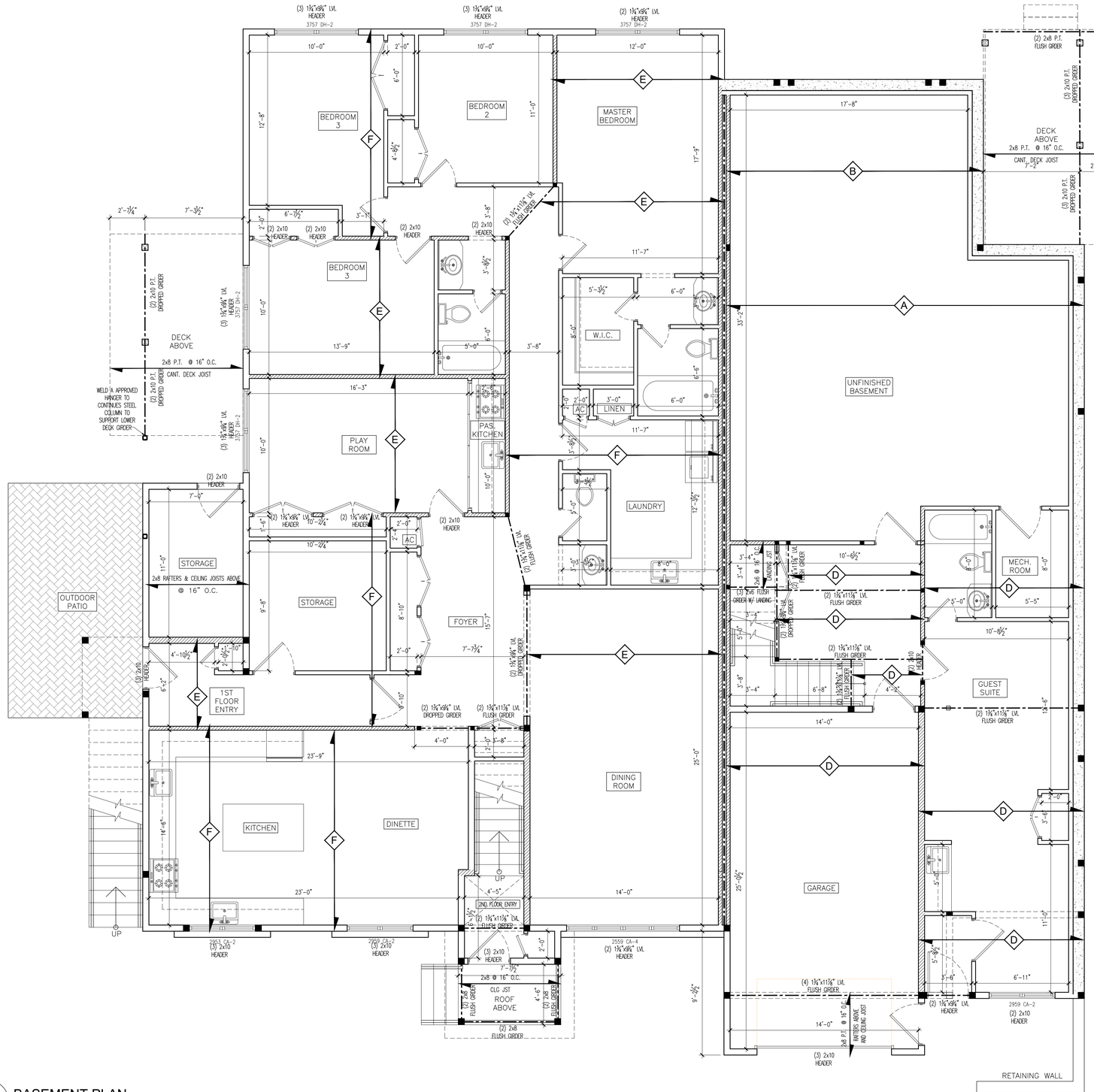
Project No. 55101
Drawn By: LH
Reviewed By: JR
Date DEC. 23, 2025

A-101



1 A-102 BASEMENT PLAN
SCALE: 1/4" = 1'-0"

WALL LEGEND

2x4 OR 2x6 WALL BEARING PARTITION

NEW 2X4 WALL FOR INTERIOR AND 2X6 FOR EXTERIOR

■ — WOOD POST IN A WALL

□ — POINT LOAD FROM ABOVE

— HARD WIRED SMOKE DETECTOR CEILING MOUNTED

— CARBON MONOXIDE DETECTOR CEILING MOUNTED

FLOOR JOIST SCHEDULE

A
16" **OJ420** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 12" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

B
16" **OJ418** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

C
16" **OJ315** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

D
16" **OJ314** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. OR 11⅞" **OJ314** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

E
11⅞" **OJ314** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

F
11⅞" **OJ315** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

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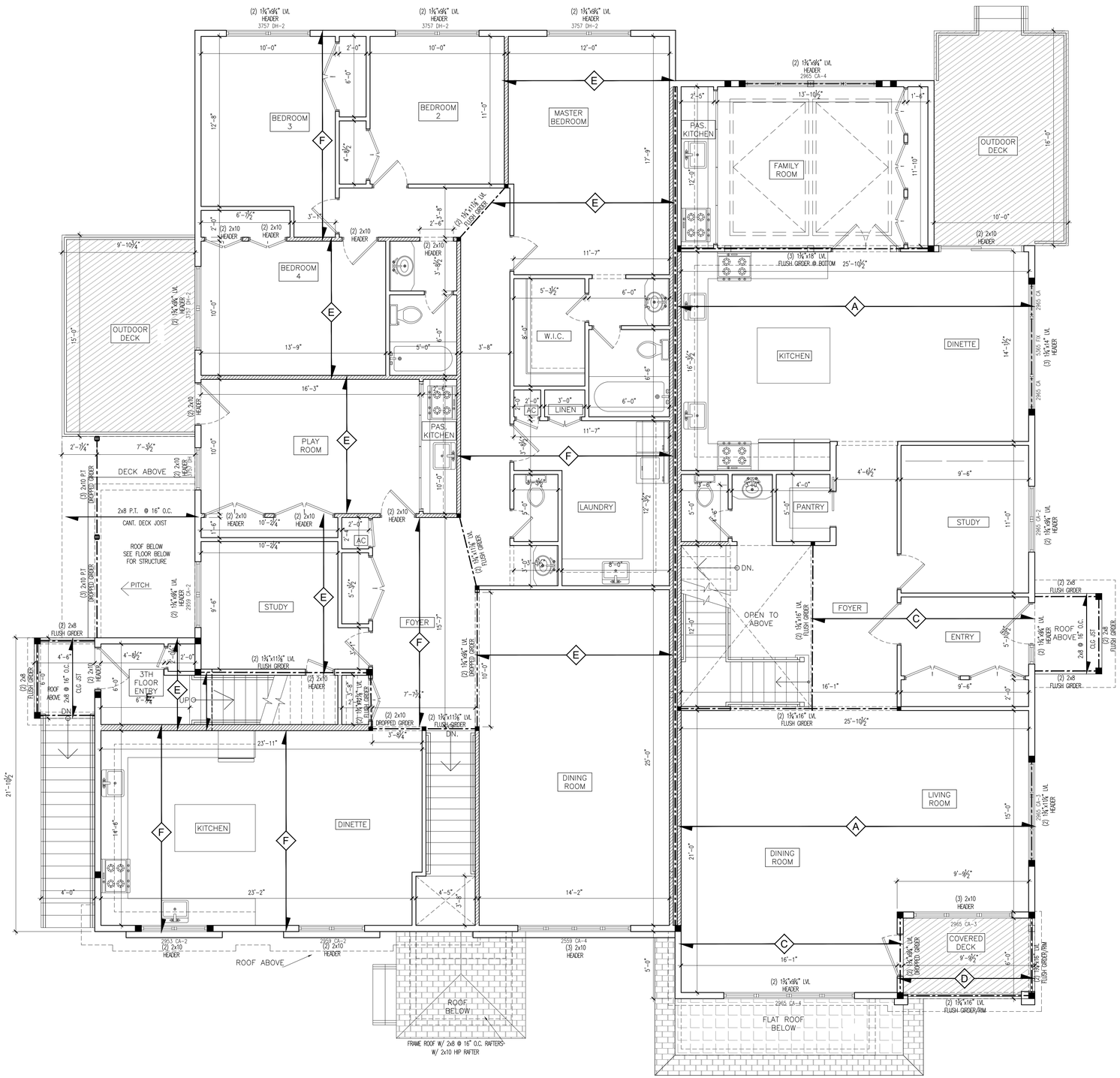
A-102



1 / A-103 FIRST FLOOR PLAN
SCALE: 1/4" =1'-0"

WALL LEGEND

2x4 OR 2x6 WALL BEARING PARTITION

NEW 2X4 WALL FOR INTERIOR AND 2X6 FOR EXTERIOR

■ — WOOD POST IN A WALL

□ — POINT LOAD FROM ABOVE

— HARD WIRED SMOKE DETECTOR CEILING MOUNTED

— CARBON MONOXIDE DETECTOR CEILING MOUNTED

FLOOR JOIST SCHEDULE

A

16" **OJ420** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. **@ 12"** O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

B

16" **OJ418** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

C

16" **OJ315** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

D

16" **OJ314** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. OR 11⅞" **OJ314** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

E

11⅞" **OJ314** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

F

11⅞" **OJ315** OPEN-WEB (TRI-FORCE) FLOOR JOIST ABV. @ 16" O.C. BRIDGE & BLOCK AS PER MANUF. SPEC.

FRAMING NOTES:

1. ALL POSTS WITHIN A WALL (NOT SPECIFIED ON PLAN THE AMOUNT OF STUDS) SUPPORTING A BEAM ABOVE TO HAVE AT LEAST A MIN. OF 3 2X, IF BEAM IS WIDER THAN 4.5" ADD 2X TO COVER FULL WIDE OF BEAM ABOVE
2. ALL BEARING WALLS TO HAVE BLOCKING WITH A MAX SPACING OF 4'-0".
3. ALL FLUSH BEAMS TO BE ATTACHED TO PERPENDICULAR BEAMS AND JOISTS WITH PROPER FULL HEIGHT SIMPSON STRONG-TIE HANGERS
4. PROVIDE DOUBLE JACK STUDS UNDER ALL HEADERS THAT ARE 48" LONG OR LONGER
5. ALL DECK LUMBER TO BE PRESSURE TREATED
6. ALL PRESSURE TREATED WOOD FASTENERS TO BE HOT DIP GALVANIZED OR STAINLESS STEEL
7. PROVIDE SOLID BLOCKING BETWEEN JOIST FOR ALL CONSECRATED LOADS FROM ABOVE CONTINUING DOWN IN WALL BELOW

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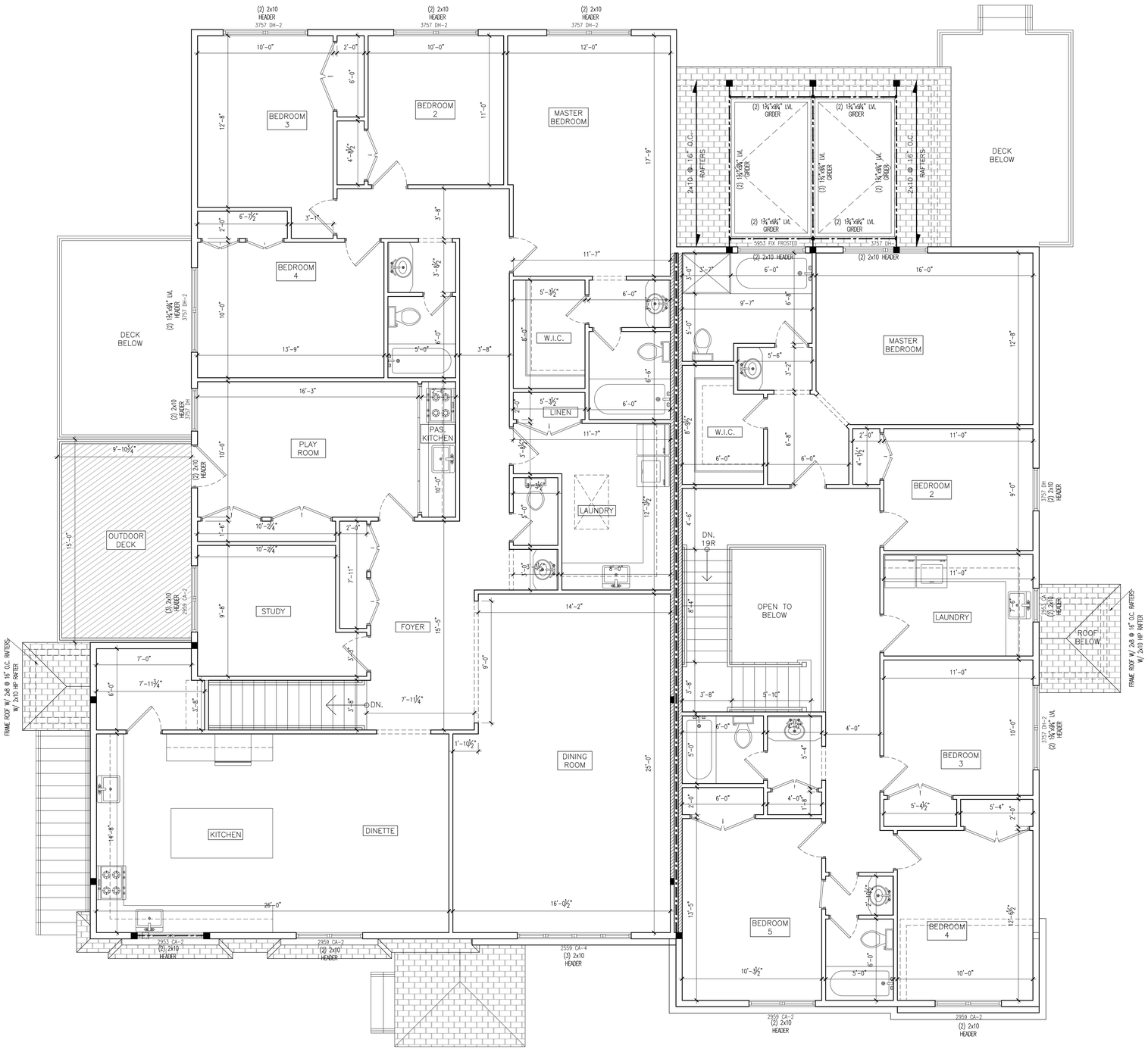
Date DEC. 23, 2024

A-103



1 / A-104 SECOND FLOOR PLAN

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

WALL LEGEND

2x4 OR 2x6 WALL BEARING PARTITION

NEW 2X4 WALL FOR INTERIOR AND 2X6 FOR EXTERIOR

■ — WOOD POST IN A WALL

□ — POINT LOAD FROM ABOVE

— HARD WIRED SMOKE DETECTOR CEILING MOUNTED

— CARBON MONOXIDE DETECTOR CEILING MOUNTED

WINDOW NOTES

EMERGENCY ESCAPE & RESCUE OPENINGS

–BASEMENTS WITH HABITABLE SPACE & EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE & RESCUE OPENING.

–SILL HEIGHT SHALL NOT BE MORE THAN 44" ABOVE FINISH FLOOR

–WINDOW WELL REQUIREMENT FOR BELOW GRADE EMERGENCY & RESCUE OPENING SHALL BE AS FOLLOWS. HORIZONTAL DIMENSIONS THAT ALLOW THE DOOR OR WINDOW TO BE FULLY OPENED, W/ A MINIMUM NET CLEAR AREA OF 9 SF & A MINIMUM HORIZ. PROJECTION & WIDTH OF 36" (A LADDER OR STEPS SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED DIMENSIONS OF THE WINDOW WELL.)

–WINDOW WELLS WITH A VERTICAL DEPTH GREATER THAN 44" SHALL BE EQUIPPED W/A PERMANENTLY AFFIXED LADDER OR STEPS.

–MIN. OPENING AREA–5.7 SQ. FT.
–GRADE FLOOR OPENINGS–5.0 SQ. FT.
–MIN. OPENINGS HGHT–24"
–MIN. OPENING WIDTH–20"

PROVIDE TEMPERED GLAZING IN THE FOLLOWING ...

ALL GLAZING IN DOORS
ALL WINDOWS WITH BOTTOM EDGE LESS THAN 18" A.F.F.
ALL WINDOWS OVER HOT TUBS, BATHS, ETC...
ALL WINDOWS IN STAIRWAYS OR STAIRWAY LANDINGS

CONTRACTOR TO CHECK WITH WINDOW MANUFACTURER REP. TO VERIFY WINDOWS THAT REQUIRE TEMPER GLASS.
CONTRACTOR TO VERIFY WINDOW QUANTITY AND DESIGNATION BEFORE ORDERING WINDOWS.

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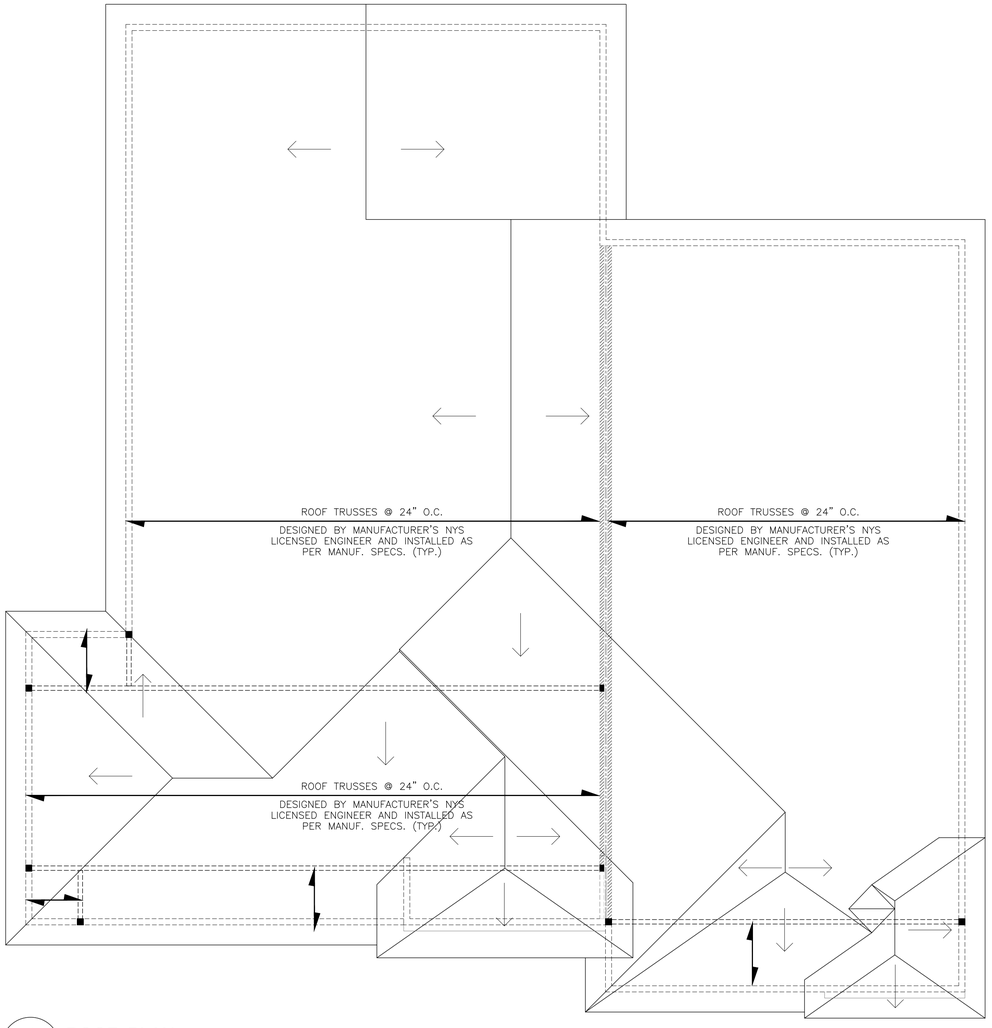
Project No.	55101
Drawn By:	LH
Reviewed By:	JR
Date	DEC. 23, 2025

A-104

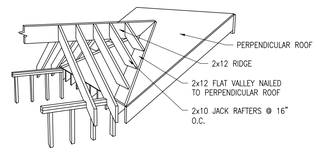


1 A-105 ROOF PLAN

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

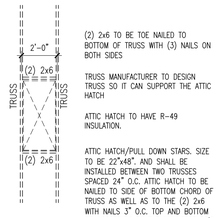
TRUSS NOTES:

- TRUSS MANUFACTURER TO SUBMIT TO BUILDING DEPARTMENT A FULL ROOF TRUSS DESIGN INCLUDING THE LOCATION AND SIZE OF BRACING AND SHOULD BE APPROVED BY THE BUILDING DEPARTMENT PRIOR TO TO ANY INSTALLATIONS IN THE FIELD
- ALL BRACING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S PLAN BY THE TIME OF FRAMING INSPECTION
- ALL TRUSSES AND GIRDER TRUSSES TO BE DESIGNED BY NYS LICENSED ENGINEER AND SHOULD COMPLY WITH THE LATEST NYS BUILDING CODE AND SHOULD BE INSTALLED AS PER MANUFACTURE'S SPECS
- TRUSS MANUFACTURER TO DETERMINE ALL CONCENTRATED AND UNIFORM LOADS TO BE SUPPORTED BY TRUSSES AT AFFECTED LOCATIONS
- ALL LVL BEAMS SUPPORTING TRUSSES CAN BE SUBSTITUTED WITH A GIRDER TRUSS AND SHALL BE DESIGNED BY MANUFACTURER'S NYS LICENSED ENGINEER



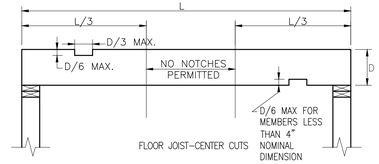
2 A-105 ROOF OVERFRAME DETAIL

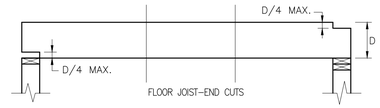
SCALE: 1/4" =1'-0"

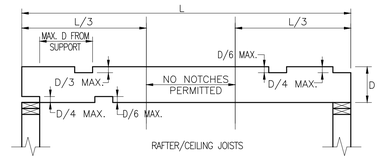


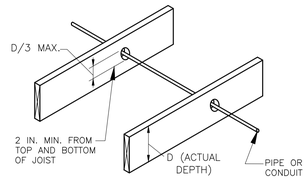
2 A-105 ATTIC HATCH DETAIL

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



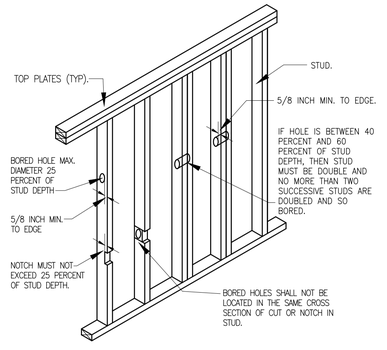






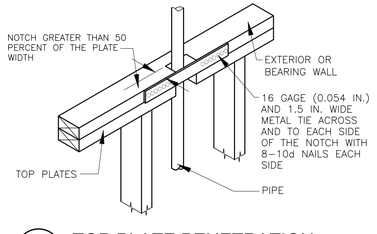
3 A-105 NOTCHING DETAILS

SCALE : 1/2" = 1'-0"



4 A-105 EXTERIOR WALL PENETRATION

SCALE : N.T.S.



5 A-105 TOP PLATE PENETRATION

SCALE: N.T.S.

NOTE: THESE DETAILS ARE FOR DIMENSIONAL LUMBER ONLY FOR ALL OTHER ENGINEERED WOOD/SEE MANUFACTURER'S SPECIFICATIONS

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Drawn By: LH
Reviewed By: JR
Date DEC. 23, 2025

Revisions:

A-105

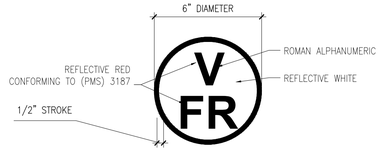
1 A-201 FRONT ELEVATION

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

PROVIDE AN FDC SIGN AT THE FIRE DEPARTMENT CONNECTION

2 A-201 FIRE DEPT. CONNECTION SIGN

SCALE: NTS



TRUSS SIGN SHALL BE INSTALLED ACCORDING TO TITLE 19 (NYCRR) CHAPTER XXXIII, SUBCHAPTER C, PART 1264

3 A-201 TRUSS SIGN

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

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A-201

1 A-202 RIGHT ELEVATION

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

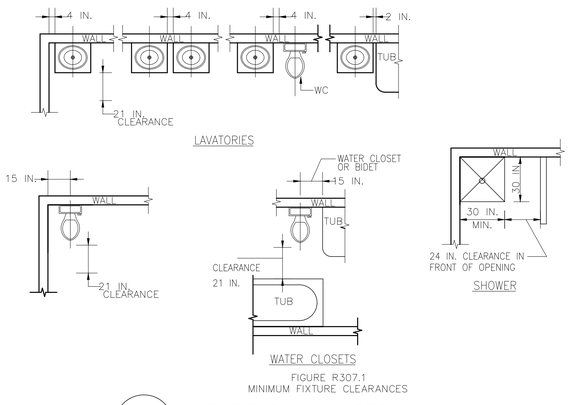

FIGURE R307.1
MINIMUM FIXTURE CLEARANCES

3 A-202 FIXTURE CLEARANCES

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

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A-202

1 / A-203 REAR ELEVATION

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

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Date	DEC. 23, 2025

A-203

2 / A-204 LEFT ELEVATION

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

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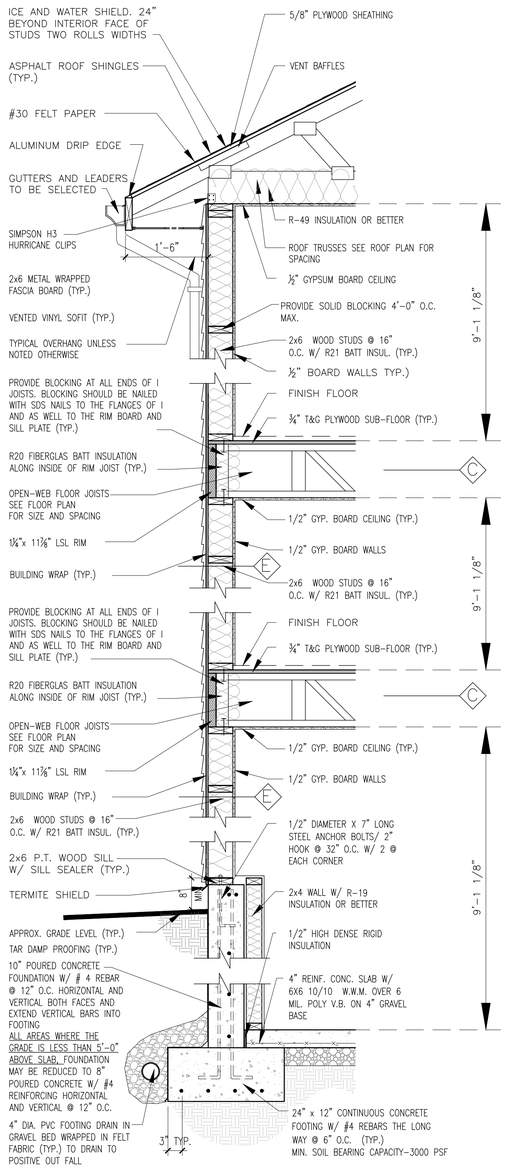
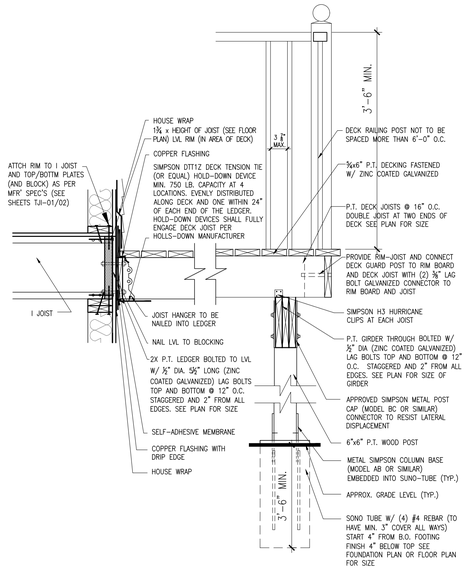
Project No.	59101
Drawn By:	LH
Reviewed By:	JR
Date	DEC. 29, 2025

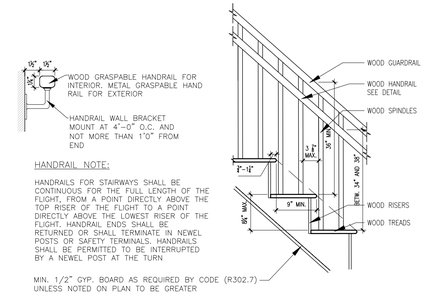
A-204



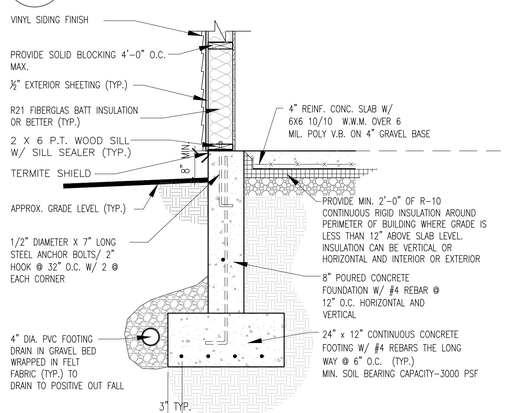
1 A-301 TYP. WALL SECTION
SCALE: 3/4" =1'-0"



4 A-301 WOOD DECK DETAIL
SCALE: 3/4" =1'-0"



3 A-301 STAIR AND HANDRAIL DETAIL
SCALE: 1" =1'-0"



2 A-301 SLAB ON GRADE WALL SECTION
SCALE: 3/4" =1'-0"

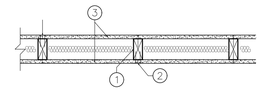
GA FILE NO. FC 5407	GENERIC	1 HOUR FIRE	35TO 39 STC SOUND

WOOD "I" JOISTS, GYPSUM WALLBOARD

BASE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOIST OR TRUSS 24" O.C. WITH 11/4" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR VENEER BASE APPLIED AT RIGHT ANGLES TO JOIST OR TRUSS THROUGH BASE LAYER WITH 17/8" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOIST OR TRUSS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS, 12" O.C.

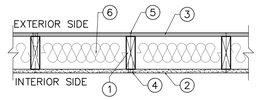
Approx. Ceiling Weight: 5 psf
Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98
Sound Test: Estimated

C 1 HOUR FIRE RATED FLOOR DES. #FM FC-172 GA FILE #FC 5407
NYSBC TABLE 721 ITEM NUMBER #21-1.1



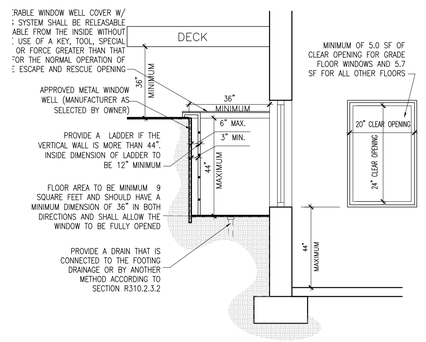
1. WOOD STUDS — 2X4 OR 2X6 @16" O.C. MAX, EFFECTIVELY FIRESTOPPED.
2. JOINTS AND NAIL-HEADS — EXPOSED OR COVERED WITH FIBER TAPE AND JOINT COMPOUND, EXCEPT WHERE REQUIRED FOR SPECIFIC EDGE CONFIGURATION. FOR TAPERED, ROUNDED-EDGE GYPSUM BOARD, JOINTS COVERED WITH JOINT COMPOUND OR FIBER TAPE AND JOINT COMPOUND. AS AN ALTERNATE, NOM 3/32 IN. THICK GYPSUM VENEER PLASTER MAY BE APPLIED TO THE ENTIRE SURFACE OF CLASSIFIED VENEER BASEBOARD. JOINTS REINFORCED. NAILHEADS EXPOSED OR COVERED WITH JOINT COMPOUND.
3. GYPSUM BOARD* — 5/8 IN. THICK (UL TYPE SCX) 4 FT WIDE PAPER OR VINYL SURFACED, WITH BEVELED, SQUARE, OR TAPERED EDGES, APPLIED EITHER HORIZONTALLY OR VERTICALLY. GYPSUM PANELS NAILED 7 IN. OC WITH 6D CEMENT COATED NAILS 1-7/8 IN. LONG, 0.0915 IN. SHANK DIAM AND 15/64 IN. DIAM HEADS.

A SEPARATION WALL UNIT
1 HR FIRE RATED IBC ITEM NUMBER #14-1.3
32 STC SOUND TRANSFER



1. FRAMING- NOMINAL 2X6 WOOD STUDS, SPACED 16 IN. O.C., DOUBLE TOP PLATES, SINGLE BOTTOM PLATE
2. INTERIOR SHEATHING - 5/8 IN. TYPE X GYPSUM WALLBOARD, 4 FT. WIDE, APPLIED VERTICALLY. ALL PANEL EDGES BACKED BY FRAMING OR BLOCKING.
3. EXTERIOR SHEATHING- 5/8 IN. TYPE X GYPSUM WALLBOARD, 4 FT. WIDE, APPLIED VERTICALLY. ALL PANEL EDGES BACKED BY FRAMING OR BLOCKING.
4. GYPSUM FASTENERS - 2-1/4 IN. #6 TYPE S DRYWALL SCREWS, SPACED 7 IN. O.C.
5. PANEL FASTENERS - 6D COMMON NAILS (BRIGHT)- 12 IN. O.C. IN THE FIELD, 6 IN. O.C. PANEL EDGES
6. INSULATION- R-21 MINERAL WOOL INSULATION MINIMUM
7. JOINTS AND FASTENER HEADS- WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND, FASTENER HEADS COVERED WITH JOINT COMPOUND

E EXTERIOR WALL
1 HR FIRE RATED WALL IBC ITEM NUMBER #15-1.13



5 A-301 WINDOW WELL DETAIL
SCALE: 3/8" =1'-0"

Hartman Design
COMMERCIAL - RESIDENTIAL
412 N. MAIN STREET, SUITE 301
MONROE NY 10950 845-781-4222
LARRY@HARTMANDESIGN.COM

SEAL

LICENSE NO: 042303

PROPOSED 4 CONDO UNITS FOR:
MANFIED SBG
13 HAWTHORN DRIVE
VILLAGE OF S. BLOOMING GROVE ORANGE COUNTY NEW YORK

WRITTEN STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AS CURRENTLY IN EFFECT.

Project No. 25101
Drawn By: LH
Reviewed By: JR
Date DEC. 23, 2025

Revisions:

A-301

WIND AND CLIMATIC DESIGN CRITERIA

CLIMATE ZONE	GROUND SNOW LOAD	WIND SPEED (mph)	SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM: WEATHERING	FROST LINE DEPTH	TERMITE	DECAY	WINTER DESIGN TEMP	ICE SHIELD UNDERLAYMENT REQUIRED	FLOOD HAZARDS
5	30	115	B	SEVERE	42"	MODERATE TO HEAVY	SLIGHT TO MODERATE	6	YES	

ROOF LIVE LOAD =21 LB / DEAD LOAD =15 LB
WIND EXPOSURE =B

CODE:

ALL CONSTRUCTION MEANS AND METHODS SHALL CONFIRM TO THE LATEST EDITION OF THESE BUILDING CODES.

2020 BUILDING CODE OF NEW YORK STATE (BCNYS)
2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (ECCNYS)
2020 NYS PLUMBING CODE, MECHANICAL CODE, FIRE CODE AND FUEL GAS CODE

CHAPTER 3 BCNYS

USE AND OCCUPANCY: R-2 RESIDENTIAL GROUP

CHAPTER 5&6 BCNYS (TYPE Va WITH SPRINKLER)

MAXIMUM BUILDING HEIGHT ALLOWED = 60'-0"
MAXIMUM STORIES ALLOWED = 4-STORIES
MAXIMUM AREA ALLOWED (PER FIRE AREA) = 36,000 SF

BUILDING ELEMENT	TYPE V A
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDER AND TRUSSES	1
BEARING WALLS EXTERIOR INTERIOR	1
NONBEARING WALLS AND PARTITIONS EXTERIOR	SEE TABLE 602
NONBEARING WALLS AND PARTITIONS INTERIOR	0
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	1
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	1

FOUNDATION NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE PRIOR TO COMMENCEMENT OF WORK. AT SITE PRIOR TO COMMENCEMENT OF WORK.
2. CONCRETE MATERIAL. READY MIXED CONCRETE SHALL HAVE A 28 DAYS COMPRESSIVE STRENGTH (F'C) OF 4000 PSI UNLESS OTHERWISE NOTED
3. CONCRETE SLUMP SHALL BE NO MORE THAN 5" BEFORE ADDITION OF WATER REDUCING ADMIXTURES.
4. ALL FOOTINGS TO BE MIN. 3'-6" BELOW GRADE ON LEVEL UNDISTURBED SOIL OR ENGINEERED FILLS.
5. REINF. BARS SHALL BE OF DEFORMED BILLET STEEL NOT LESS THAN 60,000 P.S.I. (GRADE 60)
6. ALL SPLICES OF REINF. BARS SHALL NOT BE LAPPED LESS THAN 30 BAR DIAMETERS.
7. ALL SPLICES OF WELDED WIRE FABRIC SHALL BE LAPPED BY (2) SPACINGS OF CROSS WIRE. COVERING OF 2".
8. ALL W.W.F. SHALL CONFORM TO THE LATEST A.S.T.M. SPECIFICATIONS FOR WELDED WIRE FABRIC.
9. ALL REINF. STEEL SHALL HAVE A MIN. CONCRETE COVER OF 2".
10. PROVIDE INSULATION UNDER ALL SILL PLATES.
11. MIN. SOIL BEARING CAPACITY – 3000 P.S.F.
12. ALL CONCRETE FORMWORK IS TO REMAIN IN PLACE FOR A MINIMUM OF 24 HOURS AFTER POUR.
13. FOOTING SHOULD BE STEPPED WHERE THE SLOPE OF THE BOTTOM SURFACE OF THE FOOTING WOULD EXCEED 10% (1 VERTICAL. 10 HORIZONTAL.)
14. SLAB THICKNESS TO BE MINIMUM 4" (UNLESS NOTED OTHERWISE.)
15. SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH ANCHOR BOLTS AT 32" O.C. MIN. WITH A BOLT LOCATED WITHIN 12" OF THE END OF EACH PLATE SECTION. BOLTS SHOULD BE MIN. 1/2" DIAMETER AND SHALL EXTEND AT LEAST 12" INTO MASONRY/CONCRETE
16. ANCHOR STRAPS MAY BE USED IF THEY ARE SPACED APPROPRIATELY TO PROVIDE EQUIVALENT ANCHORAGE TO ANCHOR BOLTS
17. BRACE FOUNDATION WALL ADEQUATELY PRIOR TO BACK FILL
18. DRAINS SHALL BE PROVIDED AROUND ALL CONCRETE OR MASONRY FOUNDATIONS THAT RETAIN EARTH AND ENCLOSE HABITABLE OR USEABLE SPACE LOCATED BELOW DRAINS SHALL BE INSTALLED AT OR BELOW THE AREA TO BE PROTECTED AND SHALL DISCHARGE BY GRAVITY OR MECHANICAL MEANS INTO AN APPROVED DRAINAGE SYSTEM. GRAVEL OR CRUSHED STONE DRAINS SHALL EXTEND AT LEAST 12" BEYOND THE OUTSIDE EDGE OF THE FOOTING AND 6" ABOVE THE TOP OF THE FOOTING AND BE COVERED WITH AN APPROVED FILTER MEMBRANE MATERIAL. (DRAINAGE SYSTEM IS NOT REQUIRED WHEN FOUNDATION IS INSTALLED ON WELL-DRAINED GROUND ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM, GROUP 1 SOILS.)

BACK-FILL

1. MAXIMUM UNBALANCED BACKFILL BEFORE FIRST FLOOR FRAMING IS DONE TO BE NO MORE THAN 6'-0" UNLESS NOTED OTHERWISE

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE PRIOR TO COMMENCEMENT OF WORK.
2. THE STRUCTURES DEPICTED IN THESE PLANS ARE DESIGNED TO BE SELF-SUPPORTING ONLY WHEN FULLY ERECTED AND COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PROVISION OF ALL REQUIRED TEMPORARY SUPPORTS, SHORING, BRACING, ETC.
3. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS.
4. CONTRACTOR TO COORDINATE THEIR WORK WITH ALL OTHER TRADES SO AS NOT TO CAUSE ANY UNNECESSARY DELAYS IN PROJECT.
5. CONTRACTOR TO BE RESPONSIBLE FOR APPROVALS AND FINAL INSPECTIONS OF HIS WORK BY LOCAL BUILDING INSPECTIONS.
6. CONTRACTOR SHALL PREPARE ALL SURFACES AND INSTALL ALL MATERIALS AS PER MANUFACTURERS RECOMMENDATIONS.
7. ALL HORIZONTAL DIMENSIONS ARE TO FACE OF FRAMING OR FACE OF FURRING. ALL VERTICAL DIMENSIONS ARE TO TOP OFF SUB-FLOOR OR FACE OF CEILING FRAMING.
8. STAIRS TO HAVE A MAXIMUM OF 7" RISERS AND A MINIMUM OF 11" TREAD DEPTH. (STAIRS WITHIN A UNIT CAN HAVE A MAXIMUM OF 7¾" RISERS AND A MINIMUM OF 10" TREAD DEPTH). NOSING SHALL BE PROVIDED FOR A THREAD LESS THAN 11" AND SHALL BE BETWEEN ¾" AND 1¼". MINIMUM STAIR HEAD ROOM TO BE 6'-8"
9. DO NOT CUT, DRILL, REMOVE, OR DAMAGE STRUCTURAL MEMBERS IN ANY WAY WITHOUT WRITTEN CONSENT OF THE ARCHITECT OR ENGINEER.
10. DRILL WOOD WHICH IS LIKELY TO SPLIT BEFORE NAILING. REPLACE ALL SPLIT PIECES.
11. ALL STUDS, SILL, AND POSTS SHALL BE SPRUCE-PINE-FIR ALLOWING 75% NO.1 AND 25% NO. 2 GRADE
12. ALL BEAMS, JOISTS, RAFTERS, AND HEADERS SHALL BE KD-NO. 1 DOUGLAS-FIR 19% MAXIMUM MOISTURE CONTENT. DENSE NO. 2 GRADE OR BETTER (UNLESS DRAWING CALLS FOR ENGINEERED LUMBER)
13. OTHER FRAMING LUMBER TO BE NO. 2 SPF
14. ALL INTERIOR DOOR HEADERS IN NON-BEARING WALLS TO BE BUILT WITH (2) 2x8 AND ALL DOOR HEADERS IN BEARING WALLS TO BE BUILT WITH (2) 2x10, UNLESS OTHERWISE NOTED
15. ALL JOIST UNDERNEATH ALL BATHTUBS TO BE DOUBLED
16. EXTERIOR WALLS TO BE 2x6 WOOD STUDS @ 16" O.C. UNLESS NOTED OTHERWISE
17. EXTERIOR SHEATHING TO BE 1/2" CDX EXTERIOR PLYWOOD UNLESS NOTED OTHERWISE
18. EXTERIOR SIDING SHALL BE (SELECTED BY OWNER) UNLESS NOTED OTHERWISE.
19. ALL INTERIOR WALLS TO BE 2x4 STUDS WITH 1/2" THICK GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
20. ALL WET WALLS SHALL BE WATER RESISTANT GYPSUM WALL BOARD.
21. PROVIDE 5/8" TYPE "X" GYPSUM WALL BOARD WHERE INDICATED FOR FIRE RATING.
22. PROVIDE A MINIMUM OF ½" GYPSUM BOARD TO UNDERSIDE OF ALL FLOOR FRAMING MEMBERS (EVEN IN UNFINISHED SPACES) AS RUQUIRED BY CODE
23. ALL EXTERIOR DECKING AND POSTS SHALL BE PRESSURE TREATED (WOLMANIZED OR OSMOSE).
24. ALL WOOD IN CONTACT W/ CONC. OR GRADE TO BE NO. 2 GRADE SOUTHERN YELLOW PINE AND BE PRESSURE TREATED. (WOLMANIZED OR OSMOSE) TO PREVENT AGAINST TERMITES AND DECAY.
25. CABINETS/CASEWORK TO BE DESIGNED BY OTHERS. CABINET DESIGNER SHOULD FIELD MEASURE AREA OF WORK AFTER DRYWALL INSULATION FOR PROPER FITTING.
26. ALL SELECTIONS OF FINISHED MATERIALS, STAINS, COLORS, ETC. TO BE SELECTED BY OWNER UNLESS NOTED OTHERWISE.
27. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH TABLE 803.13 OF THE 2020 BCNYS FOR FLAME SPREAD.
28. MOISTURE CONTROL IN ALL FRAMED WALLS, FLOORS AND ROOF/CEILINGS COMPRISING ELEMENTS OF THE BLDG. THERMAL ENVELOPE, A VAPOR RETARDER SHALL BE INSTALLED ON THE WARM IN WINTER SIDE OF THE INSULATION.
29. PROVIDE A HARD-WIRED SMOKE DETECTOR AT THE FOLLOWING LOCATIONS:
    A. IN EACH SLEEPING ROOM.
    B. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM.
    C. ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENTS
30. PROVIDE A HARD-WIRED CARBON MONOXIDE ALARM OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN ALL DWELLINGS THAT CONTAIN A FUEL FIRED APPLIANCE OR IS ATTACHED TO A GARAGE THAT HAS AN OPENING TO THE DWELLING.
31. ALL HABITABLE ROOMS SHALL HAVE NATURAL LIGHT NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS. AND NOT LESS THAN 4 PERCENT OF NATURAL VENTILATION.
32. SECTION 903.2.8 AN AUTOMATIC SPRINKLER SYSTEM INSTALLED ACCORDING TO SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP "R" FIRE AREA

FRAMING NOTES

1. ALL POSTS WITHIN A WALL TO HAVE AT LEAST 1 STUD FOR EACH LVL IN BEAM ABOVE AND A MIN. OF 3
2. ALL BEARING WALLS TO HAVE BLOCKING WITH A MAX SPACING OF 4'-0".
3. ALL FLUSH BEAMS TO BE ATTACHED TO PERPENDICULAR BEAMS AND JOISTS WITH PROPER FULL HEIGHT SIMPSON STRONG-TIE HANGERS
4. PROVIDE DOUBLE JACK STUDS UNDER ALL HEADERS THAT ARE 48" LONG OR LONGER
5. ALL DECK LUMBER TO BE PRESSURE TREATED
6. ALL PRESSURE TREATED WOOD FASTENERS TO BE HOT DIP GALVANIZED OR STAINLESS STEEL
7. PROVIDE SOLID BLOCKING BETWEEN JOIST FOR ALL CONSECRATED LOADS FROM ABOVE CONTINUING DOWN IN WALL BELOW 8. ALL WOOD IN CONTACT W/ CONC. OR GRADE TO BE NO. 2 GRADE SOUTHERN YELLOW PINE AND BE PRESSURE TREATED. (WOLMANIZED OR OSMOSE) TO PREVENT AGAINST TERMITES AND DECAY.
9. ALL EXTERIOR DECKING AND POSTS SHALL BE PRESSURE TREATED (WOLMANIZED OR OSMOSE). 10. ALL STUDS, SILL, AND POSTS SHALL BE SPRUCE-PINE-FIR ALLOWING 75% NO.1 AND 25% NO. 2 GRADE
11. ALL BEAMS, JOISTS, RAFTERS, AND HEADERS SHALL BE KD-NO. 1 DOUGLAS-FIR 19% MAXIMUM MOISTURE CONTENT. DENSE NO. 2 GRADE OR BETTER (UNLESS DRAWING CALLS FOR ENGINEERED LUMBER)
12. OTHER FRAMING LUMBER TO BE NO. 2 SPF 13. ALL INTERIOR DOOR HEADERS IN NON-BEARING WALLS TO BE BUILT WITH (2) 2X8 AND ALL DOOR HEADERS IN BEARING WALLS TO BE BUILT WITH (2) 2X10, (UNLESS NOTED OTHERWISE.)
14. ALL JOIST UNDERNEATH ALL BATHTUBS TO BE DOUBLED.
15. EXTERIOR WALLS TO BE 2X6 WOOD STUDS @ 16" O.C. (UNLESS NOTED OTHERWISE.)
16. EXTERIOR SHEATHING TO BE 1/2" CDX EXTERIOR PLYWOOD (UNLESS NOTED OTHERWISE.)
17. ALL INTERIOR WALLS TO BE 2X4 STUDS WITH 1/2" THICK GYPSUM WALL BOARD – (UNLESS NOTED OTHERWISE.)
18. HEADER OR GIRDER THAT HAVE A STEEL OPTION, IF USED THE SUPPORT 1 STEEL COLUMN. (UNLESS NOTED OTHERWISE.) TO BE A HSS 4x4x ¼

HVAC

1. PROVIDE FRESH AIR INTAKE AS REQUIRED IN MECHANICAL ROOM AND APPROVED FLUE AS PER MANUFACTURERS SPECS.
2. ALL WORK TO MEET REQUIREMENTS OF CHAPTER 28 OF THE 2020 BUILDING CODE OF NYS (BCNYS) AND THE 2020 MCNYS AND THE 2020 FGCNYS.
3. ALL DUCTWORK OUTSIDE OF CONDITIONED SPACE TO BE INSULATED WITH A MIN. OF R-8. IF DUCTWORK IS WITH IN CONDITIONED ENVELOPE NO INSULATION IS REQUIRED.

ELECTRICAL

2. ALL WORK TO MEET THE ELECTRICAL PROVISIONS OF THE 2017 N.E.C AS WELL AS THE THE BUILDING CODE OF NYS (BCNYS) CHAPTER 27.
3. A MINIMUM OF 90 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.

PLUMBING

1. ALL WORK TO COMPLY WITH THE PLUMBING PROVISIONS-CHAPTER 29 OF THE 2020 BUILDING CODE OF NEW YORK STATE (BCNYS) AND THE 2020 PLUMBING CODE OF NEW YORK STATE (PCNYS)
2. WATER HEATERS WITH VERTICAL PIPE RISERS SHALL HAVE A HEAT TRAP ON BOTH THE INLET & OUTLET OF THE WATER HEATER UNLESS THE WATER HEATER HAS AN INTEGRAL HEAT TRAP OR IS PART OF CIRCULATING SYSTEM.
3. PLUMBING AND DRAINAGE SYSTEM TO BE TESTED AS PER CODE.
4. ALL PLUMBING LINES IN EXTERIOR WALLS OR IN CONCEALED AREAS OR EXPOSED UNHEATED AREA TO BE INSULATED WITH R=5 BATTS MIN.

WALL FINISH

1. CAULK AND/ OR SEAL ALL EXPOSED EXTERIOR AND INTERIOR JOINTS DIRECTLY EXPOSED TO WEATHER INFILTRATION ABUTTING TWO MATERIALS OR SURFACES, SETTING BEDS, UNDER FLASHING, GAPS IN MATERIALS, ETC.
2. STONE VENEER TO BE CULTURED STONE SIMULATED STONE PRODUCT MANUFACTURED BY STONE PRODUCTS CORPORATION OR EQUIVALENT. COLORS AND STYLE CHOICES AS PRESENTED BY DEVELOPER INSTALL AS PER MANUFACTURERS SPECIFICATIONS INCLUDING THE USE OF METAL LATH AND APPLICATION COAT OVER CONCRETE FOUNDATION

FLOOR NOTES

1. ALL LUMBER MATERIALS SHALL BE NEW, SOUND, DRY MATERIAL FREE FROM DEFECTS AND IMPERFECTIONS WHERE BY THE STRENGTH MAY BE IMPAIRED AND SHALL BE OF THE SIZES INDICATED ON THE DRAWINGS.
2. SUB-FLOOR TO BE ¾" CDX PLYWOOD, TONGUE-AND-GROVE, NAILED.
4. MINIMUM FLOOR JOISTS BEARING SHALL BE AT LEAST 1 1/2" ON WOOD AND AT LEAST 3" ON MASONRY OR CONCRETE. FLOOR JOIST FRAMING FROM OPPOSITE SIDES OVER A BEARING SUPPORT SHALL LAP NOT LESS THAN 3" AND SHOULD BE NAILED TOGETHER WITH A MINIMUM OF THREE 10D FACE NAILS
3. FLOOR JOISTS SHALL BE SUPPORTED LATERALLY BY SOLID BLOCKING AND DIAGONAL WOOD OR METAL BRIDGING AT INTERVALS NOT EXCEEDING 8 FEET.
4. WOOD TRUSSES SHALL NOT BE CUT, NOTCHED, SPLICED, OR OTHERWISE ALTERED. TRUSSES DESIGN DRAWING PREPARED BY A LICENSED ENGINEER SHALL BE PROVIDED TO CODE ENFORCEMENT OFFICER PRIOR TO INSULATION.
5. END JOISTS IN SUB-FLOORING SHALL OCCUR OVER SUPPORTS.
6. PARTICLEBOARD USED FOR FLOOR UNDERLAYMENT SHALL BE MIN. 1/4" THICK AND SHALL CONFORM TO TYPE PBU.
7. ALL ENGINEER LUMBER TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
8. ALL SIMPSON (OR OTHER) FASTENERS TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
9. DOUBLE THE JOIST UNDERNEATH BATH AREA

ENERGY NOTES

BUILDING TO COMPLY WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS).

SECTION R401.3 CERTIFICATE
A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM OR AN APPROVED LOCATION INSIDE THE BUILDING. WHERE LOCATED ON AN ELECTRICAL PANEL, THE CERTIFICATE SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION (SLAB, BASEMENT WALL, CRAWLSPACE WALL AND FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES; U-FACTORS FOR FENESTRATION AND THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION, AND THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING. WHERE THERE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL LIST THE VALUE COVERING THE LARGEST AREA. THE CERTIFICATE SHALL LIST THE TYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT. WHERE A GAS-FIRED UNVENTED ROOM
HEATER, ELECTRIC FURNACE OR BASEBOARD ELECTRIC HEATER IS INSTALLED IN THE RESIDENCE, THE CERTIFICATE SHALL LIST "GAS-FIRED UNVENTED ROOM HEATER," "ELECTRIC FURNACE" OR "BASEBOARD ELECTRIC HEATER," AS APPROPRIATE. AN EFFICIENCY SHALL NOT BE LISTED FOR GAS-FIRED UNVENTED ROOM HEATERS, ELECTRIC FURNACES OR ELECTRIC BASEBOARD HEATERS.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE,

SECTION 402 BUILDING THERMAL ENVELOPE

ALL VALUES INDICATED ARE THE PRESCRIPTIVE METHOD FOR CLIMATE ZONE 5. IF A RESCHECK IS PROVIDED WITH SUBSTIUTED VALUES, THAN THE RESCHECK SHALL BE FOLLOWED.

ALL R-VALUES ARE ACCORDING TO TABLE R402.1.2, AND U-FACTOR VALUES ARE ACCORDING TO TABLE R402.1.4.

CEILING TO HAVE R-49 INSULATION

R-38 SHALL BE DEEMED TO SATISFY THE REQUIREMENT FOR R-49 WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-38 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES (100% OF THE CEILING AREA)

WOOD FRAMED WALLS OF BUILDING TO HAVE R-20 CAVITY INSULATION OR R-13 CAVITY INSULATION + R-5 CONTINUES INSULATION

MASS WALLS ABOVE GROUND (IF APPLICABLE) TO HAVE R-13 INSULATION OR R-17 IF MORE THAN HALF OF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL

BASEMENT WALLS SHALL HAVE MINIMUM OF R-15 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE BASEMENT WALL OR A MINIMUM OF R-19 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL.

BASEMENT WALLS ASSOCIATED WITH CONDITIONED BASEMENTS SHALL BE INSULATED FROM THE TOP OF THE BASEMENT WALL DOWN TO 10 FEET BELOW GRADE OR TO THE BASEMENT FLOOR, WHICHEVER IS LESS. WALLS ASSOCIATED WITH UNCONDITIONED BASEMENTS SHALL MEET THIS REQUIREMENT UNLESS THE FLOOR OVERHEAD IS INSULATED

FLOORS TO HAVE R-30 INSULATION OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY, R-19 MINIMUM.

FENESTRATION OF BUILDING TO HAVE A U-FACTOR OF 0.30 (EXCLUDING SKYLIGHTS).

SLAB ON GRADE (IF APPLICABLE) TO HAVE R-10 INSULATION FOR A DEPTH OF 2 FEET.

SLAB-ON-GRADE FLOORS WITH A FLOOR SURFACE LESS THAN 12 INCHES (305 MM) BELOW GRADE SHALL BE INSULATED WITH R-10 INSULATION. THE INSULATION SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB ON THE OUTSIDE OR INSIDE OF THE FOUNDATION WALL. INSULATION LOCATED BELOW GRADE SHALL BE EXTENDED 2'-0" BY ANY COMBINATION OF VERTICAL INSULATION,

CRAWL SPACE SHALL HAVE MINIMUM R-15 OF CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE WALL

OR MINIMUM OF R-19 OF CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL.

SKYLIGHTS TO HAVE A U FACTOR OF 0.55.

MAXIMUM FENESTRATION U-FACTOR AND SHGC
THE AREA-WEIGHTED AVERAGE MAXIMUM FENESTRATION U-FACTOR PERMITTED USING TRADEOFFS FROM SECTION R402.1.5 OR R405 SHALL BE 0.48. FOR VERTICAL FENESTRATION, AND 0.75 FOR SKYLIGHTS.

FIRE SEPARATION WALLS BETWEEN WELLING UNITS IN TWO-FAMILY DWELLINGS AND MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES) SHALL BE INSULATED TO NO LESS THAN R-10 AND THE WALLS SHALL BE AIR SEALED IN ACCORDANCE WITH SECTION 402.4

THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION.

THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH TABLE R402.4.1.1 OF THE 2020 ECCCNYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE CRITERIA INDICATED IN TABLE R402.4.1.1, AS APPLICABLE TO THE METHOD OF CONSTRUCTION.

WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT (1.5 L/S/M2), AND SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FOOT (2.6 L/S/M2), WHEN TESTED ACCORDING TO NFRC 400 OR AAMA/WDMA/CSA 101/I.S.2/A440 BY AN ACCREDITED, INDEPENDENT LABORATORY AND LISTED AND LABELED BY THE MANUFACTURER

VAPOR BARRIER TO BE ON HEATED OR LIVING SIDE IN FLOORS, WALLS AND CEILING (WHERE APPLICABLE)

FIBERGLASS SILL PLATE INSULATION TO BE USED UNDER ALL SILL PLATES, WHETHER ON CRAWL SPACE WALLS OR SLABS.

TESTING BUILDING ENVELOPE SHALL BE TESTED ACCORDING TO SECTION R402.4.1.2

THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING THREE AIR CHANGES PER HOUR IN CLIMATE ZONES 3 THROUGH 8. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM E 779 OR ASTM E 1827 AND REPORTED AT A PRESSURE OF 0.2 INCH W.G. (50 PASCALS). TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE.

SECTION R403 SYSTEMS
BUILDING MECHANICAL SYSTEMS SHALL COMPLY WITH SECTION R403 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

EACH UNIT TO HAVE AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR EACH SEPARATE HEATING AND COOLING

CONTROLLING THE PRIMARY HEATING OR COOLING SYSTEM OF THE DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY. THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C). THE THERMOSTAT SHALL INITIALLY BE PROGRAMMED BY THE MANUFACTURER WITH A HEATING TEMPERATURE SET POINT NO HIGHER THAN 70°F (21°C) AND A COOLING TEMPERATURE SET POINT NO LOWER THAN 78°F (26°C).

HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC-RESISTANCE HEAT SHALL HAVE CONTROLS THAT, EXCEPT DURING DEFROST, PREVENT SUPPLEMENTAL HEAT OPERATION WHEN THE HEAT PUMP COMPRESSOR CAN MEET THE HEATING LOAD.

ALL SUPPLY AND RETURN DUCTS IN ATTICS SHALL BE INSULATED TO A MINIMUM OF R-8 WHERE 3 INCHES IN DIAMETER AND GREATER AND R-6 WHERE LESS THAN 3 INCHES IN DIAMETER. SUPPLY AND RETURN DUCTS IN OTHER PORTIONS OF THE BUILDING SHALL BE INSULATED TO A MINIMUM OF R-6 WHERE 3 INCHES IN DIAMETER OR GREATER AND R-4.2 WHERE LESS THAN 3 INCHES IN DIAMETER.

EXCEPTION: DUCTS OR PORTIONS THEREOF LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE.

SEALING: DUCTS, AIR HANDLERS AND
FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH EITHER THE INTERNATIONAL MECHANICAL CODE OR INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE.

EXCEPTIONS:

1. AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.

2 FOR DUCTS HAVING A STATIC PRESSURE CLASSIFICATION OF LESS THAN 2 INCHES OF WATER COLUMN (500 PA), ADDITIONAL CLOSURE SYSTEMS SHALL NOT BE REQUIRED FOR CONTINUOUSLY WELDED JOINTS AND SEAMS, AND LOCKING-TYPE JOINTS AND SEAMS OF OTHER THAN THE SNAP-LOCK AND BUTTON-LOCK TYPES.

ALL DUCTS TO BE TESTED FOR LEAKAGE ACCORDING TO SECTION R403.3.3 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS

ALL DUCTS TO COMPLY WITH SECTION R403.3.3 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCNYS)

ALL MECHANICAL SYSTEM PIPING INSULATION TO COMPLY WITH SECTION R403.4 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

SERVICE HOT WATER SYSTEMS TO COMPLY WITH SECTION R403.5 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

HEATED WATER CIRCULATION SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION R403.5.1.1. HEAT TRACE TEMPERATURE MAINTENANCE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION R403.5.1.2. AUTOMATIC CONTROLS, TEMPERATURE SENSORS AND PUMPS SHALL BE ACCESSIBLE.

MANUAL CONTROLS SHALL BE READILY ACCESSIBLE.

R403.5.1.1 CIRCULATION SYSTEMS. HEATED WATER CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP. THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE. GRAVITY AND THERMOSYPHON CIRCULATION SYSTEMS SHALL BE PROHIBITED. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.

R403.5.1.2 HEAT TRACE SYSTEMS. ELECTRIC HEAT TRACE SYSTEMS SHALL COMPLY WITH ICEE 515.1 OR UL 515. CONTROLS FOR SUCH SYSTEMS SHALL AUTOMATICALLY ADJUST THE ENERGY INPUT TO THE HEAT TRACING TO MAINTAIN THE DESIRED WATER TEMPERATURE IN THE PIPING IN ACCORDANCE WITH THE TIMES WHEN HEATED WATER IS USED IN THE OCCUPANCY

MECHANICAL VENTILATION TO COMPLY WITH SECTION R403.6 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

R403.7 EQUIPMENT SIZING AND EFFICIENCY RATING.
HEATING AND COOLING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ACCA MANUAL S BASED ON BUILDING LOADS CALCULATED IN ACCORDANCE WITH ACCA MANUAL J OR OTHER APPROVED HEATING AND COOLING CALCULATION METHODOLOGIES. NEW OR REPLACEMENT HEATING AND COOLING EQUIPMENT SHALL HAVE AN EFFICIENCY RATING EQUAL TO OR GREATER THAN THE MINIMUM REQUIRED BY FEDERAL LAW FOR THE GEOGRAPHIC LOCATION WHERE THE EQUIPMENT IS INSTALLED.

R403.8 SYSTEMS SERVING MULTIPLE DWELLING UNITS.
SYSTEMS SERVING MULTIPLE DWELLING UNITS SHALL COMPLY WITH SECTIONS C403 AND C404 OF THE ECCCNYS -COMMERCIAL.
PROVISIONS IN LIEU OF SECTION R403.

R403.9 SNOW MELT AND ICE SYSTEM CONTROLS.
SNOW- AND ICE-MELTING SYSTEMS, SUPPLIED THROUGH ENERGY SERVICE TO THE BUILDING, SHALL INCLUDE AUTOMATIC CONTROLS CAPABLE OF SHUTTING OFF THE SYSTEM WHEN THE PAVEMENT TEMPERATURE IS ABOVE 50°F (10°C), AND NO PRECIPITATION IS FALLING AND AN AUTOMATIC OR MANUAL CONTROL THAT WILL ALLOW SHUTOFF WHEN THE OUTDOOR TEMPERATURE IS ABOVE 40°F (4.8°C).

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS
A MINIMUM OF 90 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
FUEL GAS SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS.
IN ALL BUILDINGS HAVING INDIV

TABLE 2304.10.1 FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Roof		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (21/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3"14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (21/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-16 d common (31/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (31/2" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common (21/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	3-16d common (31/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5)	3-10 common (3" × 0.148"); or 3-16d box (31/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown	Toenailc
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (31/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown; or	End nail
	3-10d common (3" × 0.148"); or 4-16d box (31/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail
Wall		
8. Stud to stud (not at braced wall panels)	16d common (31/2" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (31/2" × 0.162"); or	16" o.c. face nail
	16d box (31/2" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common (31/2" × 0.162"); or	16" o.c. each edge, face nail
	16d box (31/2" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common (21/2" × 0.131"); or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common (31/2" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (31/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (31/2" × 0.162"); or	16" o.c. face nail
	16d box (31/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (31/2" × 0.162"); or 3-16d box (31/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common (21/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or	Toenail
	2-16d common (31/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common (31/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail
18. 1" brace to each stud and plate	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Face nail
19. 1" × 6" sheathing to each bearing	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common (21/2" × 0.131"); or 3-10d box (3" × 0.128")	Face nail
Floor		
21. Joist to sill, top plate, or girder	3-8d common (21/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (21/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
24. 2" subfloor to joist or girder	2-16d common (31/2" × 0.162")	Face nail
25. 2" planks (plank & beam — floor & roof)	2-16d common (31/2" × 0.162")	Each bearing, face nail
26. Built-up girders and beams, 2" lumber layers	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bottom staggered on opposite sides
	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Ends and at each splice, face nail
27. Ledger strip supporting joists or rafters	3-16d common (31/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Each joist or rafter, face nail
28. Joist to band joist or rim joist	3-16d common (31/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	End nail
29. Bridging or blocking to joist, rafter or truss	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Each end, toenail
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framinga		
		Edges (inches) / Intermediate supports (inches)
30. 3/8" —½"	6d common or deformed (2" × 0.113") (subfloor and wall)	6 / 12
	8d common or deformed (21/2" × 0.131") (roof) or RSRS-01 (23/8" × 0.113") nail (roof)	6 / 12
	23/8" × 0.113" nail (subfloor and wall)	6 / 12
	13/4" 16 gage staple, 7/16" crown (subfloor and wall)	4 / 8
	23/8" × 0.113" nail (roof)	4 / 8
	13/4" 16 gage staple, 7/16" crown (roof)	3 / 6
31. 19/32" —¾"	8d common (21/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall)	6 / 12
	8d common or deformed (21/2" × 0.131") (roof) or RSRS-01 (23/8" × 0.113") nail (roof)d	6 / 12
	23/8" × 0.113" nail; or 2" 16 gage staple, 7/16" crown	4 / 8
32. ⅞" —1 ¼"	10d common (3" × 0.148"); or 8d deformed (21/2" × 0.131")	6 / 12
Other exterior wall sheathing		
33. ½" fiberboard sheathing b	11/2" galvanized roofing nail (7/16" head diameter); or 11/4" 16 gage staple with 7/16" or 1" crown	3 / 6
34. 25/32" fiberboard sheathing b	13/4" galvanized roofing nail (7/16" diameter head); or 11/2" 16 gage staple with 7/16" or 1" crown	3 / 6
Wood structural panels, combination subfloor underlayment to framing		
35. ¼" and less	8d common (21/2" × 0.131"); or 6d deformed (2" × 0.113")	6 / 12
36. ⅞" — 1"	8d common (21/2" × 0.131"); or 8d deformed (21/2" × 0.131")	6 / 12
37. 1⅛" — 1¼"	10d common (3" × 0.148"); or 8d deformed (21/2" × 0.131")	6 / 12
Panel siding to framing		
38. ½" or less	6d corrosion-resistant siding (17/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")	6 / 12
39. ⅝"	8d corrosion-resistant siding (23/8" × 0.128"); or 8d corrosion-resistant casing (21/2" × 0.113")	6 / 12
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framinga Interior paneling		
40. ¼"	4d casing (11/2" × 0.080"); or 4d finish (11/2" × 0.072")	6 / 12
41. ⅜"	6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches)	6 / 12

For SI: 1 inch = 25.4 mm.

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.

b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).

c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.

d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

Hartman Design
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LARRY@LHARTMANDESIGN.COM

SEAL

LICENSE NO: 082893

PROPOSED 4 CONDO UNITS FOR:

MANFIED SBG

13 HAWTHORN DRIVE

VILLAGE OF S. BLOOMING GROVE ORANGE COUNTY NEW YORK

WRITTEN STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AS CURRENTLY IN EFFECT.

Project No. 55101
Drawn By: LH
Reviewed By: JR
Date DEC. 23, 2025

Revisions:

SP-02

TRIFORCE®

1 800 263-7265

www.openjoisttriforce.com

BUILT BY Barrette

open joist

11/5 Edition

This Installation Guide is intended to provide general information for a proper TRIFORCE® open joist installation. This Installation Guide must be used in conjunction with the manufacturer's Specifier Guide or Placement Guide. For further information or assistance, contact a Barrette Structural Distribution representative.

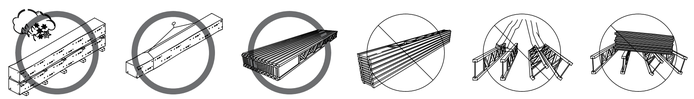
In keeping with its ongoing commitment to product development, Barrette Structural Distribution periodically updates its literature. Please visit our website (www.openjoisttriforce.com) to confirm that this version is the most recent.

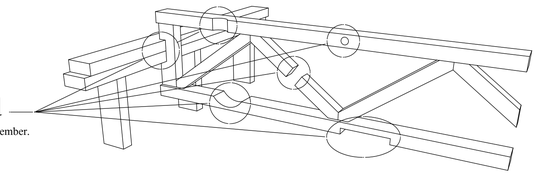
Storage and Handling

1. Keep TRIFORCE ® open joist bundles wrapped until the time of installation to protect them from bad weather.
2. Use wood filler to separate bundles.
3. Always store, stack and handle TRIFORCE® open joist vertically and level—never flat.
4. Do not store TRIFORCE® open joist in direct contact with the ground.
5. Be cautious when using forklift to avoid damage. If the ground is uneven in the storage area, reduce forklift speed to avoid "bouncing" the load.
6. When handling with a crane, use a spreader to pick up the load, if necessary, to minimize handling stresses. Keep TRIFORCE® open joist vertical.
7. Maintain stack height within safe limits.
8. Handling of TRIFORCE® open joists with a crane or forklift should be done by lifting from below the bottom of the bundle.
9. Do not stack other material on top of TRIFORCE® open joist bundles.
10. Bundle wrap can be slippery, especially when wet or icy. Avoid walking on material.

Installation Instructions

1. Except for trimming the joist length on the OSB end panel, chords should never be cut, drilled or notched.
2. Install TRIFORCE® open joist so that top and bottom flanges are within 1/2" of true vertical alignment.
3. Joists must be restrained at the ends to prevent rollover.
4. Apply concentrated loads only on top flanges. Do not suspend concentrated loads from bottom flanges, except for light loads such as ceiling fans or light fixtures.
5. TRIFORCE® open joists must be protected from bad weather prior to installation.
6. Joists should be used in dry conditions only.
7. Never install a damaged TRIFORCE® open joist.
8. If optional strongbacks are installed, they must be made of dry lumber.
9. End bearing must be a minimum of 1 ½". Placement Guide may specify longer bearings.
10. To transfer a vertical load applied above the joist to a bearing, it may be necessary to add a rim board, squash blocks or blocking panels.
11. Joists must not be in direct contact with masonry or concrete.
12. DO NOT WALK ON JOISTS until properly braced. Serious injury may occur.
13. DO NOT PILE construction materials on joists until they are fully installed, braced and have subfloor installed.
14. When nailing into the joist flange, nails must be spaced at least 2 ½" o.c.
15. Details on the following pages show only the installation requirements specific to TRIFORCE® open joists. For other installation requirements, refer to the bulding code or manufacturers' instructions.
16. Adhesives used for floor systems should comply with ASTM D3498-03 Standard Specification for Field-Gluing Plywood to Lumber Framing for Floor Systems. When gluing the subfloor to the joists, follow the instructions of the adhesive manufacturer.

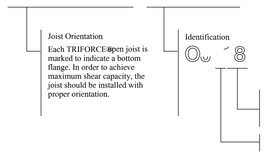




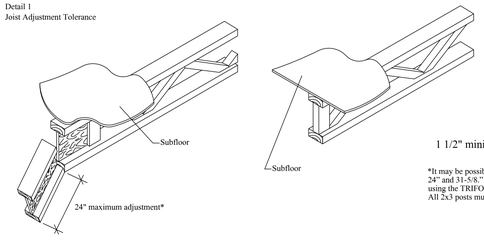
Not Permitted

Never notch, cut or drill a joist member.

Joist Identification and Orientation



Detail 1
Joist Adjustment Tolerance



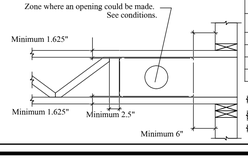
1 1/2" minimum BEARING REQUIRED

*It may be possible to trim the OSB end panel of the joist between 24" and 31-5/8." However, the joist capacity MUST be analyzed using the TRIFORCE®Analyzer software to confirm. All 2x3 posts must ALWAYS REMAIN INTACT.

Openings in the OSB End Panel of a Joist

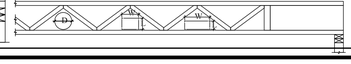
Conditions:

1. One (1) round hole of 1.5" or less diameter can be made in this zone without any adjustment of the joist capacity.
2. For any other quantity or type of hole, the joist capacity has to be analyzed using TRIFORCE® Analyzer software.



Mechanical Clearances

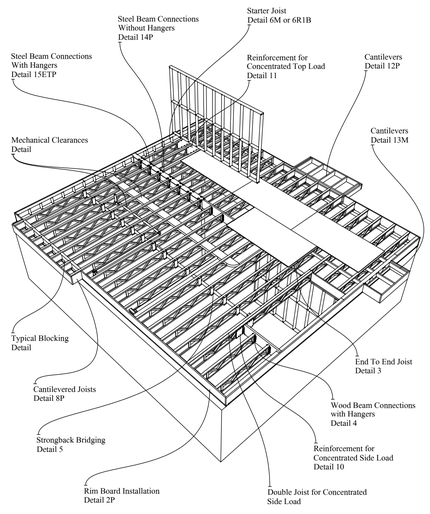
Maximum Size of Pipes, Ducts and Cable Trays Through Diagonal Web Members			
Depth	Round D	Square W x L	Rectangular W x L
9½"	5"	4" x 6"	3" x 9"
11⅞"	7⅛"	5¼" x 5¼"	3" x 13"
14"	8½"	6½" x 6½"	3" x 14", 6" X 8"
16"	9½"	7½" x 7½"	3" x 15"



Standard Details

This section provides standard details for normal framing situations. For loads that are not uniformly distributed and/or for joists supported by bearings other than end bearings, joist capacity must be verified using the manufacturer's Analyzer software.

The project designer and/or general contractor is responsible for determining if standard details apply.



Rim Board Installation

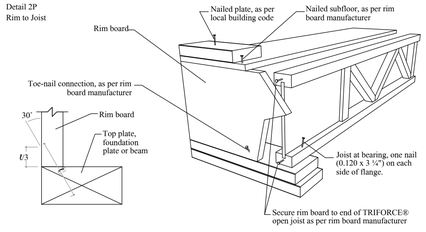
Standard Rim Board Sizes
Depth (inches): 9 ½, 11 ¾, 14, 16.

A structural rim board is required when TRIFORCE® open joists are installed perpendicular to bearing walls.

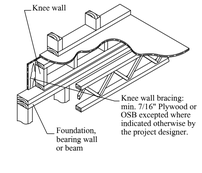
TRIFORCE® open joists should not be used as solo starter joists on exterior walls.

The vertical and/or horizontal loads to be transfered must be verified using the manufacturer's proprietary capacities.

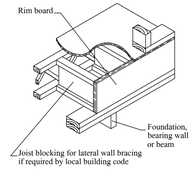
Detail 2P
Rim to Joist



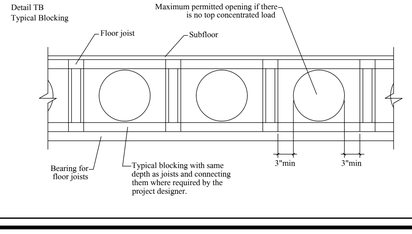
Detail 6M
Knee Wall



Detail 6R1B
Rim Board and Blocking at Exterior Wall

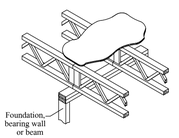


Detail TB
Typical Blocking

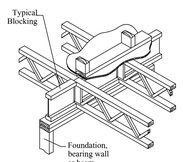


Detail 3
End To End Joist

Blocking not required between joists for detached one- and two-family dwellings, assigned to Seismic Design Category A, B or C or located where the mapped Ss<0.4g

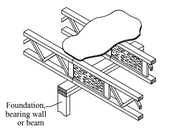


Detail 3B
End to End Joist with Bearing Wall Above

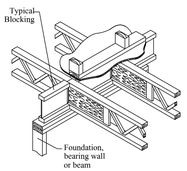


Detail 3P1
End To End Joist

Blocking not required between joists for detached one- and two-family dwellings, assigned to Seismic Design Category A, B or C or located where the mapped Ss<0.4g

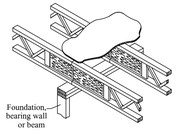


Detail 3P1B
End to End Joist with Bearing Wall Above

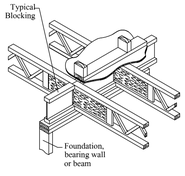


Detail 3P2
End To End Joist

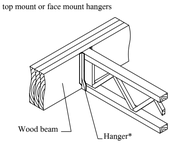
Blocking not required between joists for detached one- and two-family dwellings, assigned to Seismic Design Category A, B or C or located where the mapped Ss<0.4g



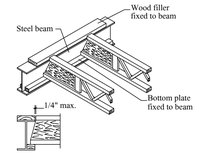
Detail 3P2B
End to End Joist with Bearing Wall Above



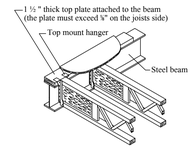
Detail 4
Wood Beam Connections with Hangers
* top mount or face mount hangers



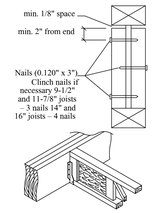
Detail 14P
Steel Beam Bottom Flange Bearing



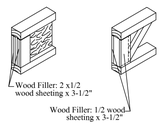
Detail 15ETP
Steel Beam Connections With Top Plate and Hanger



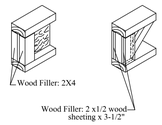
Lateral Bracing for a Single
Joist with Hanger
Only required if the hanger does not provide lateral support for the joist's top chord.



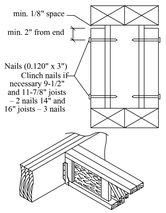
Joists with 3X2 chords



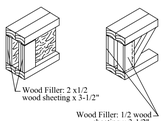
Joists with 4X2 chords



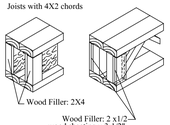
Lateral Bracing for a Double
Joist with Hanger
Only required if the hanger does not provide lateral support for the joist's top chord.



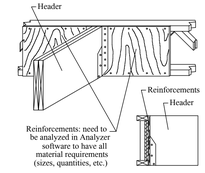
Joists with 3X2 chords



Joists with 4X2 chords

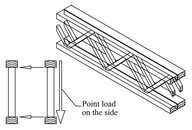


Detail 10
Reinforcement for a Concentrated Side Load

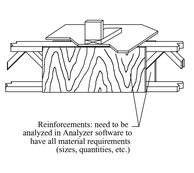


Detail DJ
Doubled Joist Load Transfer

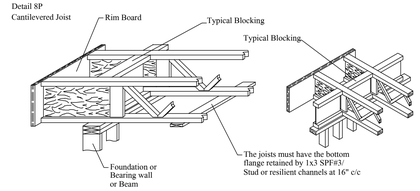
Use load distribution brackets (multi-joist connectors or the equivalent) having the capacity to transfer load as indicated in manufacturer's Analyzer software report.



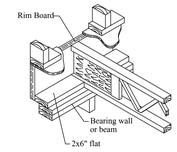
Detail 11
Reinforcement for a Concentrated Top Load



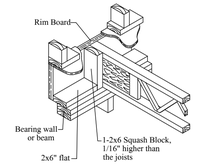
Detail 8P
Cantilevered Joist



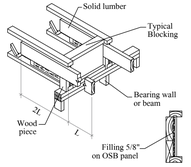
Detail 8BD
Multiple Level
Brick at Lower Level



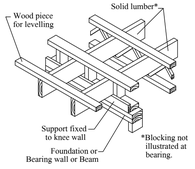
Detail 8BDG
Multiple Level
Brick at Lower Level



Detail 12P
Cantilevered Balcony



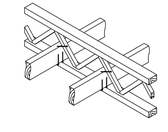
Detail 13M
Cantilever Perpendicular to Open Joist



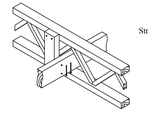
Detail 5
Strongback Bridging

Use gun nails 0.122"x3.25" or 3" screws to secure strongback at mid span of joist.

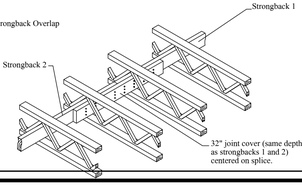
Option #1 (Good)



Option #2 (Better)



Strongback Overlap



TRIFORCE

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PROPOSED 4 CONDO UNITS FOR:

MANFIED SBG

13 HAWTHORN DRIVE

VILLAGE OF S. BLOOMING GROVE ORANGE COUNTY NEW YORK

WRITTEN STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AS CURRENTLY IN EFFECT.

Project No. 55101
Drawn By: LH
Reviewed By: JR
Date DEC. 23, 2025

TJI-01

ELECTRICAL SYMBOLS

- $ — SINGLE–POLE SWITCH
- $^3 — 3–WAY SWITCH
- $^T — TIMER SWITCH
- ⊕ — DUPLEX OUTLET
- ⊕^WP — EXTERIOR GFI OUTLET IN WEATHERPROOF BOX W/ LID
- ⊕^GFI — GROUND FAULT INTERRUPTER OUTLET
- ▲ — TELEPHONE JACK
- ○ — WALL MOUNT SURFACE INCANDESCENT LIGHT FIXTURE
- ○^WP — EXTERIOR WALL MOUNT SURFACE INCANDESCENT LIGHT FIXTURE W/ WEATHERPROOF COVER
- ⌖ — CEILING MOUNT SURFACE INCANDESCENT LIGHT FIXTURE AS SELECTED BY OWNER
- ⌖ — CEILING MOUNT RECESSED INCANDESCENT LIGHT FIXTURE AS SELECTED BY OWNER
- ⌖^WP — CEILING MOUNT WATERPROOF RECESSED INCANDESCENT LIGHT FIXTURE AS SELECTED BY OWNER
- ◇^EF/L — CEILING MOUNT DUCTED EXHAUST FAN W/ LIGHT FIXTURE
- ⊛ — HARD–WIRED SMOKE ALARM CEILING MOUNT
- ⊛ — CARBON MONOXIDE ALARM CEILING MOUNT
- ⊠ — DOORBELL CHIME
- → — DOORBELL PUSH–BUTTON

1 / E-101 BASEMENT ELECTRICAL PLAN

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

2 / E-101 FIRST FLOOR ELECTRICAL PLAN

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

3 / E-101 SECOND FLOOR ELECTRICAL PLAN

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

Hartman Design
COMMERCIAL • RESIDENTIAL
412 N. MAIN STREET, SUITE 301
MONROE NY 10950 845-781-4222
LARRY@LHARTMANDESIGN.COM

SEAL

LICENSE NO: 082844

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E-101