11 Church St. Duplex Residential Duplex 11 Church Street Foxborough, MA 02035

ARCHITECT

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IECC TABLE 402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT**						
ASSEMBLY	REQUIREMENT	ACTUAL				
WOOD FRAME CAVITY WALL 1	R=20	R=21				
WOOD FRAME FLOOR ¹	R=30	R=30				
WOOD FRAME CEILING ^{1 2 3}	R=49	R=49				
WINDOWS	U=0.300	U≤0.300				
DOORS	U=0.300	U≤0.300				
BASEMENT WALLS	15/19 ⁴	15/19 ⁴				

¹ R503.1.1 BUILDING ENVELOPE EXCEPTION 2

THE FOLLOWING ALTERATIONS NEED NOT COMPLY WITH THE REQUIREMNTS FOR NEW CONSTRUCTION PROVIDED THE ENERGY USE OF THE BUILDING IS NOT INCREASED: EXISTING CEILING, WALL OR FLOOR CAVITIES EXPOSED DURING CONSTRUCTION PROVIDED THAT THESE CAVITIES ARE FILLED WITH INSULATION.

² R402.2.1 CEILINGS WITH ATTIC SPACES.

WHEN SECTION R402.1.1 WOULD REQUIRE R-38 IN THE CEILING, INSTALLING R-30 OVER 100 PERCENT OF THE CEILING AREA REQUIRING INSULATION SHALL BE DEEMED TO SATISFY THE REQUIREMENT FOR R-38 WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. SIMILARLY, 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. THIS REDUCTION SHALL NOT APPLY TO THE U-FACTOR ALTERNATIVE APPROACH IN SECTION R402.1.3 AND THE TOTAL UA ALTERNATIVE IN SECTION R402.1.4.

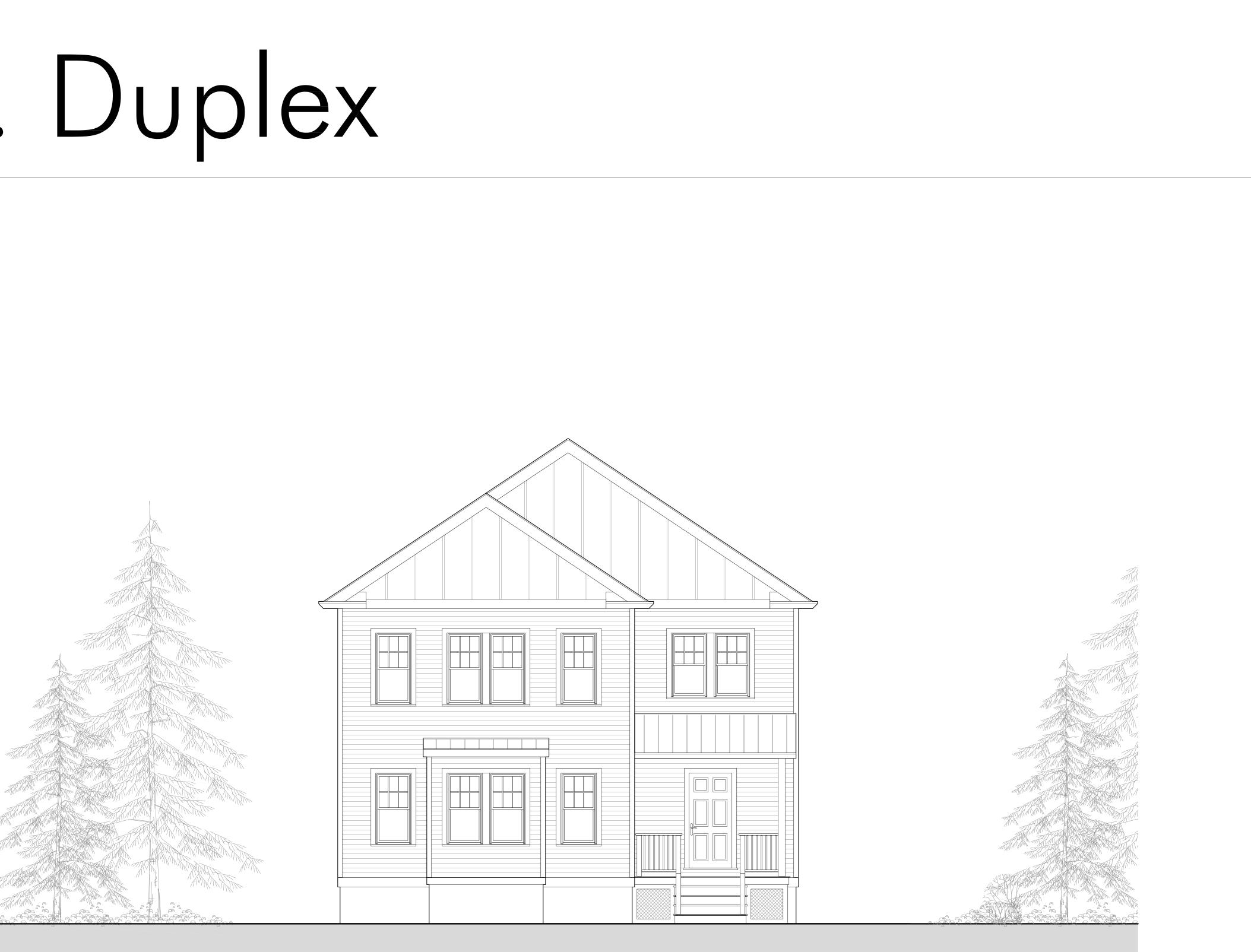
³ R402.2.2 CEILINGS WITHOUT ATTIC SPACES.

WHERE SECTION R402.1.1 WOULD REQUIRE INSULATION LEVELS ABOVE R-30 AND THE DESIGN OF THE ROOF/CEILING ASSEMBLY DOES NOT ALLOW SUFFICIENT SPACE FOR THE REQUIRED INSULATION, THE MINIMUM REQUIRED INSULATION FOR SUCH ROOF/CEILING ASSEMBLIES SHALL BE R-30. THIS REDUCTION OF INSULATION FROM THE REQUIREMENTS OF SECTION R402.1.1 SHALL BE LIMITED TO 500 SQUARE FEET (46 M2) OR 20 PERCENT OF THE TOTAL INSULATED CEILING AREA, WHICHEVER IS LESS. THIS REDUCTION SHALL NOT APPLY TO THE U-FACTOR ALTERNATIVE APPROACH IN SECTION R402.1.3 AND THE TOTAL UA ALTERNATIVE IN SECTION R402.1.4.

⁴ TABLE R402.1.2 BASEMENT R-VALUE

"15/19" MEANS R-15 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-19 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL. "15/19" SHALL BE PERMITTED TO BE MET WITH R-13 CAVITY INSULATION ON THE INTERIOR OF THE BASEMENT WALL PLUS R-5 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME

G.C. TO VERIFY WITH CODE OFFICIAL TO CONFIRM ADDITIONAL ENERGY CODE COMPLIANCE REQUIREMENTS



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@	AT
4	ANGLE
<	CENTERLINE
[上	Channel Perpendicular
>	PLATE
~	ROUND/DIAMETER
A.F.F.	ABOVE FINISH FLOOR
A.P.	ACCESS PANEL
A.T.	ASPHALT TILE
A/C	AIR CONDITIONING
AC.	ACRE
ACT.	
ADD'N. ADD.	ADDITION ADDENDUM
ADJUST.	ADJUSTABLE
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANCH.	ANCHOR(AGE)
anod. Approx.	ANODIZED APPROXIMATE
ARCH.	ARCHITECT(URAL)
ASB.	ASBESTOS
ASPH.	ASPHALT
B.M.	BENCHMARK
B.U.R.	BUILT-UP ROOF
B.W.	BOTH WAYS
B/O	BOTTOM OF
BD.	BOARD
BLDG. BLKG.	BUILDING BLOCKING
BLKT.	BLANKET
BM.	BEAM
BRG.	BEARING
BRK.	BRICK
BSMT. BVL.	BASEMENT BEVELED
C.E.S. C.H.	CARPET EDGING STRIP CHEMICAL HARDENER
C.I.	CAST IRON
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
C.L.L.	CONTRACT LIMIT LINE
C.M.P. C.M.T.	CORRUGATED METAL PIPE CERAMIC MOSAIC TILE
C.M.U.	CONCRETE MASONRY UNIT
C.T.	CERAMIC TILE
CABT.	CABINET
CARP.	CARPENTER
CB. CEM.	CHALKBOARD CEMENT
CL.	CLOSET
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN COMBINATION
COMB. COMP.	COMPOSITE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	
CONTR. CORR.	CONTRACTOR CORR I DOR
CORRUG.	CORRUGATED
CPT.	CARPET
CRS.	COURSE(S)
D.	DEPTH
D.F.	DRINKING FOUNTAIN
D.H.	DOUBLE HUNG
D.O.	DOOR OPENING/DITTO DEFLECTION
DEFL. D I A.	DIAMETER
DIAG.	DIAGONAL
DIMEN.	DIMENSION
DL	DEAD LOAD
DN. DTL.	DOWN
DIL. DWG.	detail Drawing
E.J. E.P.	EXPANSION JOINT ELECTRIC PANEL
E.S.R.	
E.J.K.	ELASTIC SHEET ROOFING
E.W.C.	ELASTIC SHEET ROOFING ELECTRIC WATER COOLER
E.W.C. EA.	ELECT RI C WATER COOLER EACH
E.W.C. EA. EL.	electric water cooler Each Elevation
E.W.C. EA.	ELECT RI C WATER COOLER EACH
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E.W.C. EA. EL. ELEC. ELEV. ENTR. EQ. EQUIP.	ELECTRIC WATER COOLER EACH ELEVATION ELECTRIC(AL) ELEVATOR ENTRANCE EQUAL EQUIPMENT
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FLOOR DRAIN

FIRE EXTINGUISHER

FIRE EXTINGUISHER CABINET

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	NNUNCIATION (ALARM) PANEL IDATION
FINISH	
F I XTUF FLASH	
FLOO	
	DRY MUTUAL IINE NAPKIN VENDOR
FRAM	
FRAM I FOOT	
FOOT	
furr i i Furni	ng Shed/furn i ture
	C WALL COVERING
GRAB	BAR RAL CONTRACTOR
	ED CERAMIC TILE
GAUG	GE AN I ZED
Gaski	
	5, GLAZING JM WALLBOARD
GYPSI	
he i gh	
	DW CORE DW METAL
HAND	ICAPPED
	BOARD WOOD
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	'GLARE/LIGHT REDUCING(GLASS Zontal
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PERIM.

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LT-GA

FRM'G

PLASTIC/PLATE PLASTIC LAMINATE PL.LAM. PLASTER **PLUMBING** PLYWD. PLYWOOD PANEL PAR PREFABRICATE(D) PREFAB. PT./PTD. PAINT/PAINTED PARTITION PAVEMENT QUARRY TILE QUANTITY RADIUS/RISER RUBBER BASE roof drain ROUGH OPENING REFERENCE REINFORCED REQUIRED RETURN revised/revision room RUBBER SOLID CORE STAINLESS STEEL Sound transmission class SCHEDULE SECTION SHEET Sheathing SIMILAR SEALANT SEALER Specification SPRINKLER SQUARE ST./STL. STEEL Standard STR./STRUCT STRUCTURE(-AL) SUSPENDED SYMMETRICAL TRANSFORMER/TREAD TONGUE & GROOVE TOP OF CONCRETE T/CONC TOP OF DECK TOP OF TOP OF STEEL TOP OF WAL TACKBOARD TELEPHONE TEMPERED TEMPERATURE TERMINAL TERRAZZO THICK(NESS) THRES. THRESHOLD TOILET TRANS. TRANSPORT TRANSF. TRANSFORMER TRANSP. TRANSPARENT TILE REDUCER STRIP TYPICAL UNDERCUT U.N.O. UNLESS NOTED OTHERWISE UNIV. OF CALIF. (TEST) UNDERWRITER'S LAB. (TEST) URETHANE COATING VINYI VAPOR BARRIER **VISION PANEL** VARNISH **VINYL BASE** VINYL COMPOSITION TILE VERTICAL VESTIBULE VENEER **VINYL TILE** VINYL WALLCOVERING WIDTH WATER CLOSET WIRE GLASS WATERPROOF/WORKPOINT WATER REPELLENT/RESISTANT WEATHER STRIP WINDOW WALL WELDED WIRE FABRIC W.W.F. WITH WITHOUT W/O WDW. WINDOW

PLAS.

PLBG.

PNL.

PVMT

R.B.

R.D.

R.O.

RFF

REINF.

req'd

RM.

RUB.

S.T.C.

SCH.

SECT.

SHTH.

SPR.

SUSP.

T.&G.

T/D

TEMP

UR

V.B.

V.P

VERT.

VEST.

VNR

W.C.

W.GL.

W.P.

W.R.

W.S.

W.W.

W/

GENERAL FOUND 1. SPREAD FOOTIN 2. IF BEARING MA Shall be removed 3. THE ARCHITECT 4. NO FOUNDAT 5. FOOTINGS SHA 6. BACKFILL UNDE 7. DO NOT BACKF 8. CONCRETE W FOR STRUCTURAL 9. CONCRETE FO MORE THAN 4" AN MAINTAIN PROPER 10. Steel reinfc 11. ALL CONCRET WELDED WIRE FA

SUFFICIENT CHAIR 12. WHERE CONT LAPS SHALL BE 40 E 13. NOTIFY ARCHI 14. PLACEMENT C WITH CONTINUO 15. ALL REINFORG APPLIED TO THE I

GENERAL FRAMING NOTES:

AND BASES FOR ALL POSTS. STANDARDS", BY RAMSEY & SLEEPER. WITH 2 $\frac{1}{2}$ DIAMETER BOLTS AT 16" ON CENTER.

ABBRFVIAT	

			- 2. ALL SCHEDULE 4 AND A.S.T.M. SPEC
COLUMN LINE		NEW STUD WALL	3. All "TS" DESIGN A.S.T.M. SPECIFICA 4. All ShOP AND FULL STRENGTH O
1 WALL / PARTITION TYPE		NEW C.M.U. WALL	5. NO PERMANEN 6. SUBMIT THREE C
100 ROOM NAME AND NUMBER		NEW BRICK WALL	CONNECTIONS AI REQUIREMENTS O
DOOR DESIGNATION	г — — — — — ¬	EXISTING WALL TO BE REMOVED	7. CONNECTION WELDED ALL AROU 8. ALL STEEL SHALL
A WINDOW TYPES			9. WELD ALL STEEL
1 GENERAL / SPECIFIC NOTES		EXISTING WALL TO REMAIN	10. provide a ¼" [<u>General notes:</u>
$ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	WALLS LEGEND Image: Concrete Image: Concrete </td <td>BATT INSULATION INSULATION</td> <td> GENERAL CONT ALL CONTRACT ALL PERMITS. THE CONTRACT ANY ERRORS, AI STARTED. CONTRACTOR S ALL FINISH MATH THE PRESENCE O THE PRESENCE O THE ACCEPTANG YEAR FROM COMP GENERAL CON GENERAL CON </td>	BATT INSULATION INSULATION	 GENERAL CONT ALL CONTRACT ALL PERMITS. THE CONTRACT ANY ERRORS, AI STARTED. CONTRACTOR S ALL FINISH MATH THE PRESENCE O THE PRESENCE O THE ACCEPTANG YEAR FROM COMP GENERAL CON GENERAL CON
SYMBOLS LEGEND	MATERIALS LEGEND		GENERA
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	 		_
NDATION & CONCRETE NOTES:			
DTINGS SHALL BEAR LEVEL ON UNDISTURBED SOIL HAVING AN ALLOWABLE BEARING CAPACITY OF 2 TONS PER SQUARE FOOT,	 		Т
MATERIALS WITH A LOWER BEARING CAPACITY THAN 2 TONS PER SQUARE FOOT ARE ENCOUNTERED AT THE SPECIFIED ELEVATIONS, THE UNDERLYING UNSUITABLE MATERIAL DVED AND REPLACED WITH SUITABLE MATERIAL TO BE APPROVED BY THE ENGINEER/ARCHITECT.		DRAWING	
ECT/ ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS.		NUMBER	
ATION SHALL BE PLACED IN WATER OR ON FROZEN GROUND.			
SHALL BE PROTECTED AGAINST FROST UNTIL PROJECT IS COMPLETED.		-	
IDER ANY PORTION OF THE BUILDING SHALL BE COMPACTED IN 6" LIFTS OF 95% COMPACTED GRAVEL AS APPROVED BY THE ENGINEER.		G1.0	
CKFILL EXTERIOR WALLS UNTIL PERMANENT STRUCTURAL SUPPORTS (FRAMED FLOORS AND SLABS) ARE IN PLACE. BRACE ALL WALLS AND GRADE BEAMS DURING BACKFILLING.		A1.0	
WORK SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE CODE FOR "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND "SPECIFICATIONS AL CONCRETE FOR BUILDINGS".	_	A1.1	+
FOUNDATION WALLS AND FOOTINGS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS AND 3,500 P.S.I. FOR SLABS, WITH A SLUMP OF NO	+	A1.2	+
AND AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION OR HEAT IN COLD WEATHER AND PER CURING PROCEDURES IN ACCORDANCE WITH THE A.C.I.	-	A1.3 A2.0	┼
FORCEMENT SHALL CONFORM TO A.S.T.M. 615. GRADE 60	_	A2.1	+
RETE SLABS ON GROUND SHALL BE REINFORCED WITH 6x6-10/10 (MIN.) WELDED WIRE FABRIC PLACED AT MID-DEPTH, OR AS OTHERWISE SHOWN ON THE DRAWINGS. FABRIC REINFORCEMENT SHALL CONFORM TO A.S.T.M. A185 AND SHALL LAP 6" MINIMUM OR ONE SPACE WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER. PROVIDE	ARCHITECTURAL	A3.0	t
IAIR OR SUPPORT BARS AS NECESSARY TO POSITION WELDED WIRE FABRIC.	CHI	A3.1	T
NTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. 40 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.	AR	A3.2	
CHITECT/ ENGINEER FOR INSPECTION OF COMPLETED INSTALLATION OF REINFORCEMENT AT LEAST 24 HOURS PRIOR TO SCHEDULED PLACEMENT OF CONCRETE.		A4.0	
T OF CONCRETE POURS FOR FOUNDATION WALLS OR GRADE BEAMS SHOULD NOT EXCEED 60 FEET IN ANY STRAIGHT LENGTH AND SHOULD HAVE A VERTICAL 2"x4" KEY UOUS REINFORCING (40 BAR DIAMETER MINIMUM) THRU THE CONSTRUCTION JOINT.	_		+
PRCING BARS SHALL BE COLD BENT IN ACCORDANCE TO THE PROPER RADII ESTABLISHED BY THE AMERICAN CONCRETE INSTITUTE. UNDER NO CONDITIONS SHALL HEAT BE E BARS TO OBTAIN BENDS.			+
			1

16. THE USE OF CONTROL JOINTS IN THE SLAB IS RECOMMENDED TO CONTROL CRACKING. SAW CUT TO A DEPTH ONE-QUARTER OF THE DEPTH OF THE SLAB. SEE PLAN FOR LAYOUT.

17. DAMP PROOF ALL FOUNDATION WALLS BELOW GRADE. OTHER THAN FROST WALLS..

18. GROUT TO BE NON-SHRINK AND NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 P.S.I. AT 28 DAYS. USE CEMENTITIOUS GROUT AS MANUFACTURED BY "FIVE-STAR PRODUCTS INC., SIKA CORP., FOSROC INC." OR APPROVED EQUAL.

1. ALL FRAMING LUMBER SHALL BE HEM-FIR GRADE NO. 2 OR S.P.F. (SPRUCE-PINE-FIR) GRADE NO. 2 OR APPROVED EQUAL (UNLESS OTHERWISE SPECIFIED) AND SHALL MEET THE REQUIREMENTS OF THE AMERICAN FOREST AND PAPER ASSOCIATION. THE MINIMUM ALLOWABLE BENDING STRESS (Fb) SHALL BE 875 P.S.I. THE MINIMUM ALLOWABLE COMPRESSION STRESS (Fc) SHALL BE 400 P.S.I. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 1,400,000 P.S.I. OTHER FRAMING MATERIAL FOR INTERIOR NON-LOAD BEARING STUDS MAY BE SUBSTITUTED ONLY UPON APPROVAL OF THE ENGINEER.

2. ALL PRESSURE TREATED (CCA TREATED) DIMENSIONAL FRAMING LUMBER SHALL BE SOUTHERN PINE GRADE NO. 2. THE MINIMUM ALLOWABLE BENDING STRESS (Fb) SHALL BE 1,050 P.S.I. THE MINIMUM ALLOWABLE COMPRESSION STRESS (Fc) SHALL BE 565 P.S.I. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 1,600,000 P.S.I.

3. ALL PRESSURE TREATED (CCA TREATED) SOLID TIMBERS SHALL BE SOUTHERN PINE GRADE NO. 2 (UNLESS OTHERWISE SPECIFIED ON DRAWINGS). THE MINIMUM ALLOWABLE BENDING STRESS (Fb) 850 P.S.I. THE MINIMUM ALLOWABLE COMPRESSION STRESS (Fc) SHALL BE 375 P.S.I. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 1,200,000 P.S.I. 4. ALL "LVL'S" SHOWN ARE TO BE PARALLAMS OR MICROLAMS. THE MINIMUM ALLOWABLE BENDING STRESS (Fb) SHALL BE 2,900 P.S.I. THE MINIMUM ALLOWABLE COMPRESSION STRESS (Fc)

PERPENDICULAR TO THE GRAIN SHALL BE 750 P.S.I. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 2,000,000 P.S.I. ALL PARALLAMS EXPOSED TO THE WEATHER SHALL BE PRESSURE TREATED (CCA TREATED). INSTALL MICROLLAMS AND PARALLAMS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. 5. USE ¼ "TONGUE AND GROOVE STRUCTURAL GRADE FIR PLYWOOD FLOOR SHEATHING , 5%" EXTERIOR STRUCTURAL GRADE FIR (C.D.X.) PLYWOOD ROOF SHEATHING, AND ½" EXTERIOR

STRUCTURAL GRADE FIR (C.D.X.) AT WALLS. ALL JOINTS SHALL BE BLOCKED WITH LUMBER OR OTHER APPROVED SUPPORTS.

6. INTERIOR STUD WALLS TO BE 2x4 MINIMUM @ 16" O.C. UNLESS OTHERWISE NOTED. 7. PROVIDE ADEQUATE WALL RESISTANCE TO RACKING BY DIAGONAL CORNER WIND BRACING ANCHORED TO SILL PLATES.

8. PROVIDE SOLID BLOCKING @ 8'-0" INTERVALS BETWEEN FLOOR JOISTS AND OR DOUBLE ALL JOISTS UNDER EACH PARTITION

9. USE FULLY NAILED METAL CONNECTORS (TECO, SIMPSON OR EQUAL), JOIST HANGERS WHEN JOISTS OR BEAMS FRAME INTO OTHER JOISTS OR BEAMS. PROVIDE METAL POST CAPS

10. FOR ROUGH WINDOW OPENINGS AND INTERIOR DOOR OPENINGS UP TO 3 FEET USE 2-2x6 HEADER BEAMS. FROM 3 TO 6 FEET, USE 2-2X8 HEADER BEAMS, AND FROM 6 TO 8 FEET USE 2-2x10 HEADER BEAMS, EXCEPT AS NOTED OTHERWISE ON THE PLANS OR SPECIFICATIONS. IF MICROLLAMS OR PARALLAMS ARE SPECIFIED ON PLANS, PROVIDE SOLID 4x4 POST SUPPORTS FOR DOUBLE HEADERS AND SOLID 4x6 POSTS FOR TRIPLE HEADERS, OR AS OTHERWISE SPECIFIED ON THE PLAN.

11. ALL FRAMING TO BE INSTALLED IN ACCORDANCE WITH STATE BUILDING CODE REQUIREMENTS AND GENERAL FRAMING PRACTICE AS DETAILED IN THE "ARCHITECTURAL GRAPHIC

12. ALL PLYWOOD FLOOR SHEATHING SHALL BE GLUED & SCREWED TO SUPPORTING WOOD FRAMING MEMBERS USING AMERICAN PLYWOOD ASSOCIATION (A.P.A.) GLUED FLOOR SYSTEM. WOOD GLUE TO BE CONTECH, INC. PL400 SUB FLOOR CONSTRUCTION ADHESIVE, OR APPROVED EQUAL.

13. ALL WALL STUDS TO ALIGN WITH FLOOR JOISTS AND ROOF RAFTERS.

14. THE CROSS WALLS AND TIE BEAMS ARE TO PROVIDE THE LATERAL RESTRAINT FOR THE BUILDINGS AND SHOULD BE SECURELY ATTACHED AT EACH END AND OR TO THE EXTERIOR WALLS. 15. BUILT-UP BEAMS (3 PIECE MAXIMUM) USING CONVENTIONAL FRAMING LUMBER SHALL BE FULLY SPIKED TOGETHER WITH 2-10D NAILS AND PARALLAMS, OR MICROLLAMS WITH 2-16D NAILS (TOP AND BOTTOM) AT 12" O.C., OR AS OTHERWISE NOTED ON THE DRAWINGS, OR AS RECOMMENDED BY THE MANUFACTURER. FOUR PLY. BUILT-UP BEAMS TO BE THRU-BOLTED

16. ALL NAILS, FASTENERS AND CONNECTORS EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED.

17. THE FLOOR JOISTS SHOWN AS "AJS" ARE WOOD "I JOISTS" AS MANUFACTURED BY BOISE CASCADE. THE INSTALLATION, BLOCKING RIM JOISTS, OPENINGS THRU WEBS, HEADERS, WEB STIFFENERS, ETC., ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. PROVIDE DESIGN AND LAYOUT DRAWINGS BY THE MANUFACTURER AND SUBMIT TO THE ENGINEER.

GENERAL STRUCTURAL STEEL NOTES:

1. ALL STEEL SHALL BE NEW STEEL CONFORMING TO THE A.I.S.C. SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND A.S.T.M.-GRADE

DULE 40 OR 80 PIPE SHALL BE NEW STEEL CONFORMING TO THE A.I.S.C. SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS . SPECIFICATION A53, TYPE "E" OR "S" , GRADE "B" , WITH A MINIMUM YEILD STRESS OF 35 KSI.

ESIGNATED TUBE SHALL BE NEW STEEL CONFORMING TO THE A.I.S.C. SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND CIFICATION A500, GRADE "B" , WITH A MINIMUM YIELD STRESS OF 46 KSI.

AND FIELD WELDS SHOWN SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE A.W.S. CODE FOR BUILDINGS. ALL WELDS SHALL DEVELOP THE TH OF THE MATERIAL BEING WELDED . USE EXX 70 ELECTRODES. ANENT CONNECTIONS SHOULD BE MADE UP UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED. PROVIDE TEMPORARY BRACING AS REQUIRED.

IREE COPIES OF SHOP DRAWINGS TO THE ARCHITECT/ENGINEER SHOWING SETTING PLANS, ERECTION PLANS, ALL DETAILS AND SIZES OF MEMBERS INCLUDING INS AND ALL ENGINEERING CALCULATIONS. STEEL FABRICATOR IS RESPONSIBLE FOR FINAL CONNECTION DETAILS AND DESIGN IN ACCORDANCE WITH THE MINIMUM ITS OF THE LATEST EDITION OF THE A.I.S.C. DETAILING MANUAL.

FION BOLTS TO BE $\frac{3}{4}$ " DIAMETER HIGH STRENGTH, A.S.T.M. A 325. PROVIDE A MINIMUM OF 2 BOLTS PER CONNECTION. USE $\frac{1}{2}$ " MINIMUM CAP PLATE OR BASE PLATES FULLY AROUND AT COLUMNS WITH A $\frac{3}{16}$ " FILLET WELD, OR AS OTHERWISE SPECIFIED ON THE DRAWINGS.

SHALL HAVE TWO COATS OF RUST-INHIBITIVE PRIMER PAINT. TOUCH UP ALL WELDS, SCRATCHES OR SCRAPES IN PAINT AFTER ERECTION.

STEEL CONTACT SURFACES (OTHER THAN BOLTED CONNECTIONS) WITH A CONTINUOUS $\frac{3}{16}$ " (MINIMUM) WELD.

A $\lambda_4^{\prime\prime}$ diameter weephole at the base of all tube and pipe columns.

CONTRACTOR SHALL INSPECT THE SITE AND SHALL BE FAMILIAR WITH ALL CONDITIONS AND WITH LIMITATION OF THE CONTRACT AND SCOPE OF WORK.

RACTORS SHALL ENSURE THAT ALL WORK AND MATERIALS SHALL COMPLY WITH ALL FIRE SAFETY, HEALTH, LOCAL AND STATE BUILDING CODES, AND SHALL BE RESPONSIBLE FOR

TRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH WORK.

DRS, AMBIGUITIES OR OMISSIONS IN DRAWINGS OR NOTES SHALL BE REPORTED TO THE ARCHITECT FOR CORRECTION OR CLARIFICATION BEFORE ANY PART OF THE WORK IS

TOR SHALL PERIODICALLY REMOVE FROM THE PREMISES ALL RUBBISH AND DEBRIS.

I MATERIAL SHALL BE STORED SO IT IS CLEAN AND FREE FROM STAIN OR DISCOLORATION.

NCE OF ANY HAZARDOUS MATERIAL MUST BE REPORTED TO THE OWNER IMMEDIATELY.

TRACTOR SHALL SUBMIT REQUIRED SHOP DRAWINGS, FINISH AND OR COLOR SAMPLES AND EQUIPMENT CUTS PRIOR TO INSTALLATION TO THE OWNER FOR APPROVAL BEFORE ION BEGINS.

PTANCE OF THE CONTRACT CARRIES WITH IT A GUARANTEE ON THE PART OF THE CONTRACTOR TO MAKE GOOD ANY DEFECTS IN WORK AND WORKMANSHIP FOR ONE COMPLETION OF THE ENTIRE CONTRACT.

. CONTRACTOR IS TO COORDINATE WITH ALL EXISTING CONDITIONS AND TO PRODUCE A FIRST-CLASS INSTALLATION.

CONTRACTOR SHALL CARRY ALL INSURANCE, SATISFACTORY TO OWNER.

COVER G1.0 A1.0 A1.1 A1.2 A1.3 A2.0 A2.1 A3.0 A3.1

TITLE **GENERAL INFORMATION & DRAWING LIST** FOUNDATION & FIRST FLOOR PLAN SECOND FLOOR AND ROOF PLAN FIRST AND SECOND FLOOR FRAMING PLAN CEILING AND ROOF FRAMING PLAN BUILDING ELEVATIONS

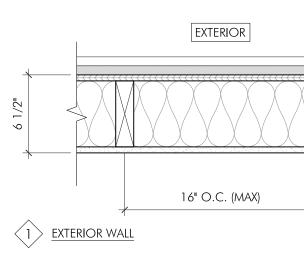
DRAWING

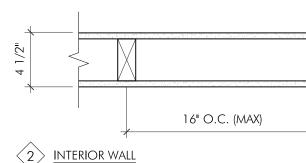
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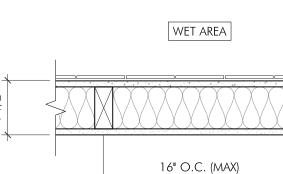
BUILDING SECTIONS AND DETAILS

- BUILDING SECTIONS AND DETAILS
- BUILDING SECTIONS AND DETAILS SCHEDULES

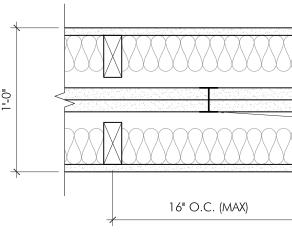
DRAWING LIST











4 2-HOUR AREA SEPARATION WALL (NON-LOAD

PARTITION TYPE NOTE:

1. ALL EXTERIOR WALLS TO BE CONSIDERED PARTITION TYPE 1 UNLESS 2. ALL OTHERWISE NOTED. OTHE PARTITION TYPES SCALE: 1 1/2"=1'-0"

DIMENSIONING NOTE:

TYPICAL UNLESS NOTED OTHERWISE

dimension string.

ALL DIMENSIONS SHOWN ARE SHOWN AS FOLLOWS: FRAMED CONSTRUCTION

WALLS: FACE OF STUD TO FACE OF STUD DOORS / WINDOWS: CENTERLINE OF UNIT

ALL ANGLES ARE 45* OR 90* UNLESS NOTED OTHERWISE

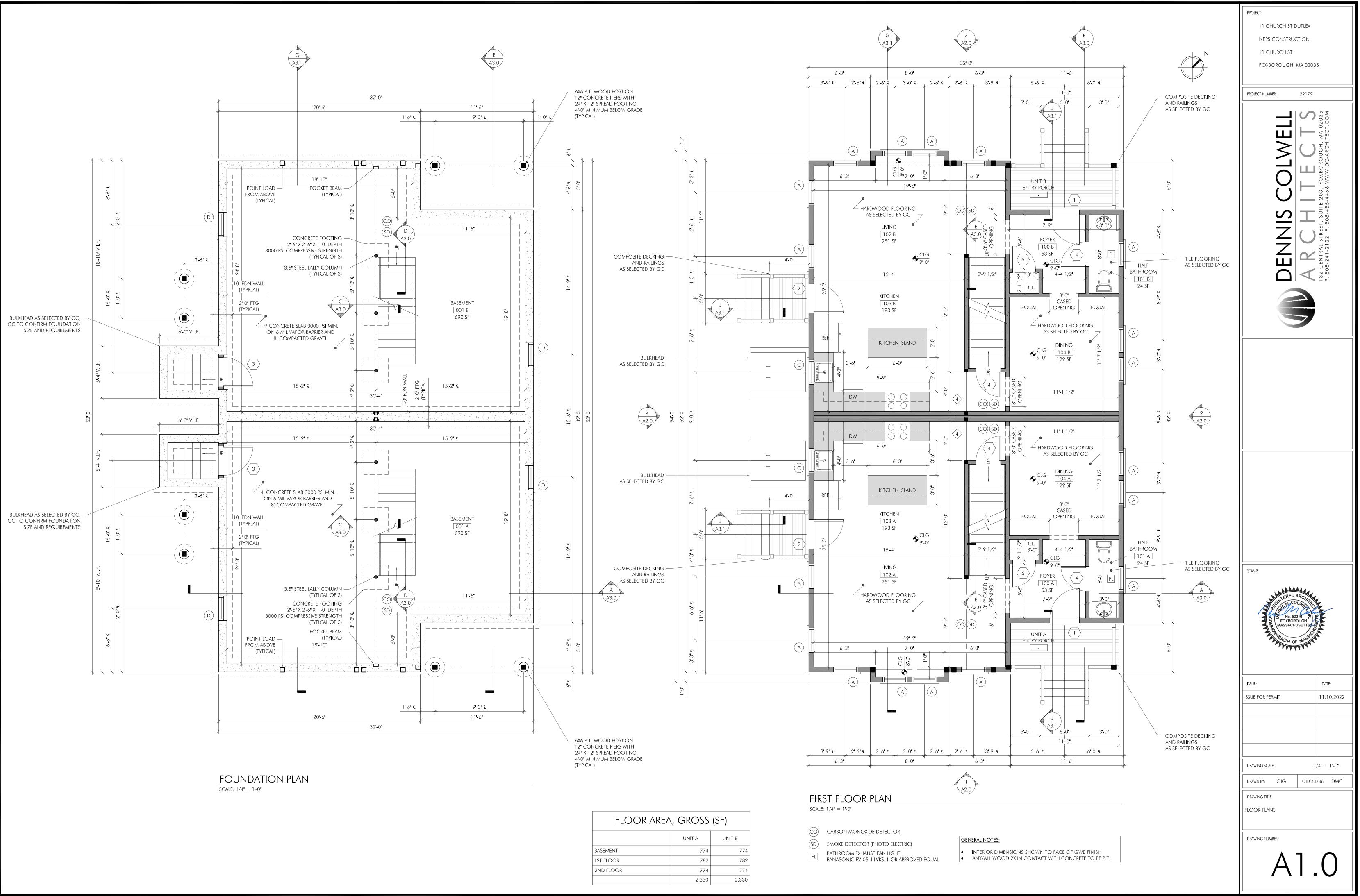
MASONRY / CONCRETE CONSTRUCTION WALLS: FACE OF MASONRY TO FACE OF MASONRY

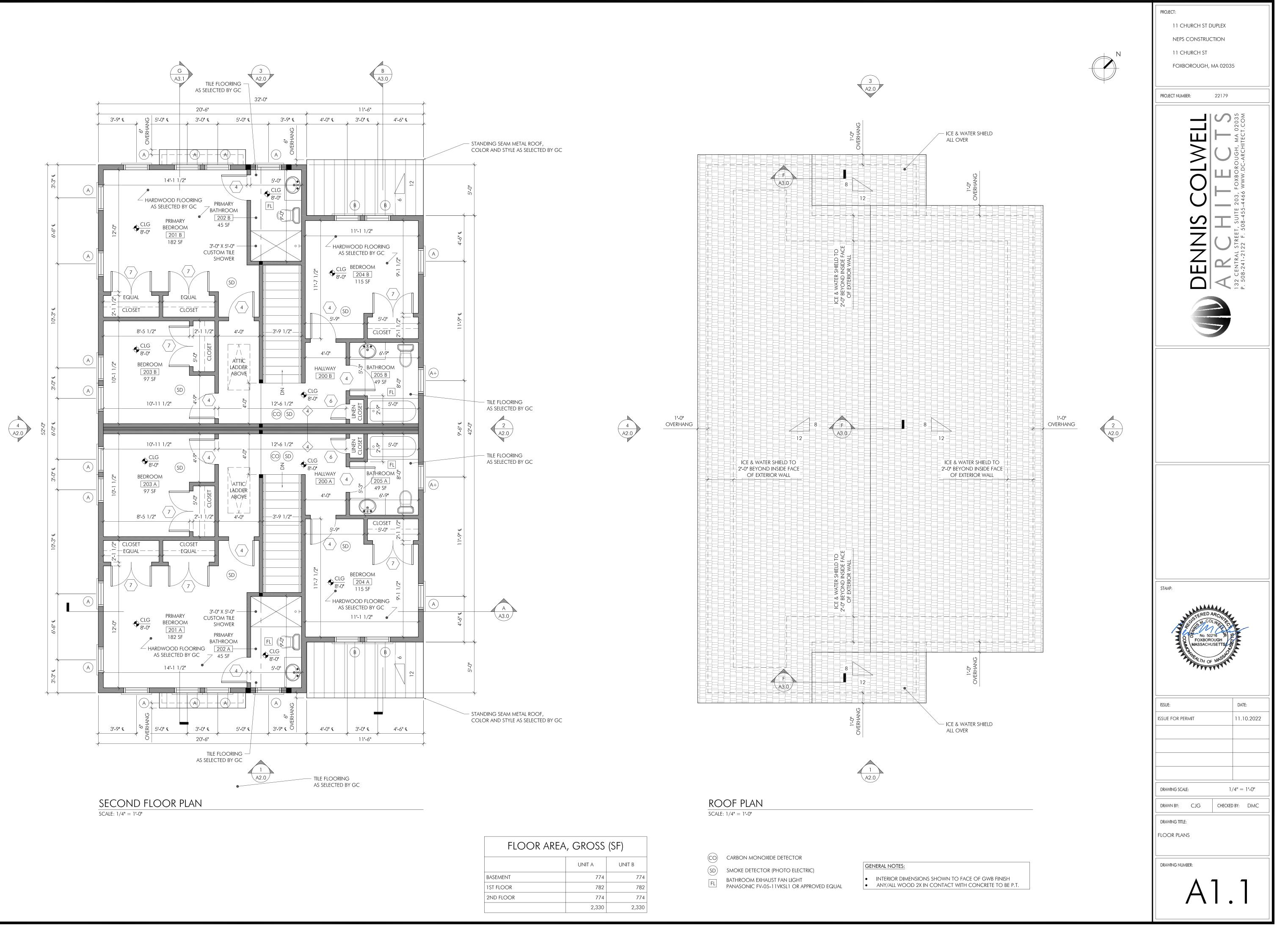
DOORS / WINDOWS: MASONRY OPENING FINISHED DIMENSIONS SHALL BE NOTED AS EITHER FINISHED OR CLEAR ON

DIMENSIONING NOTES

RAL CONSTRUCTION NOTES

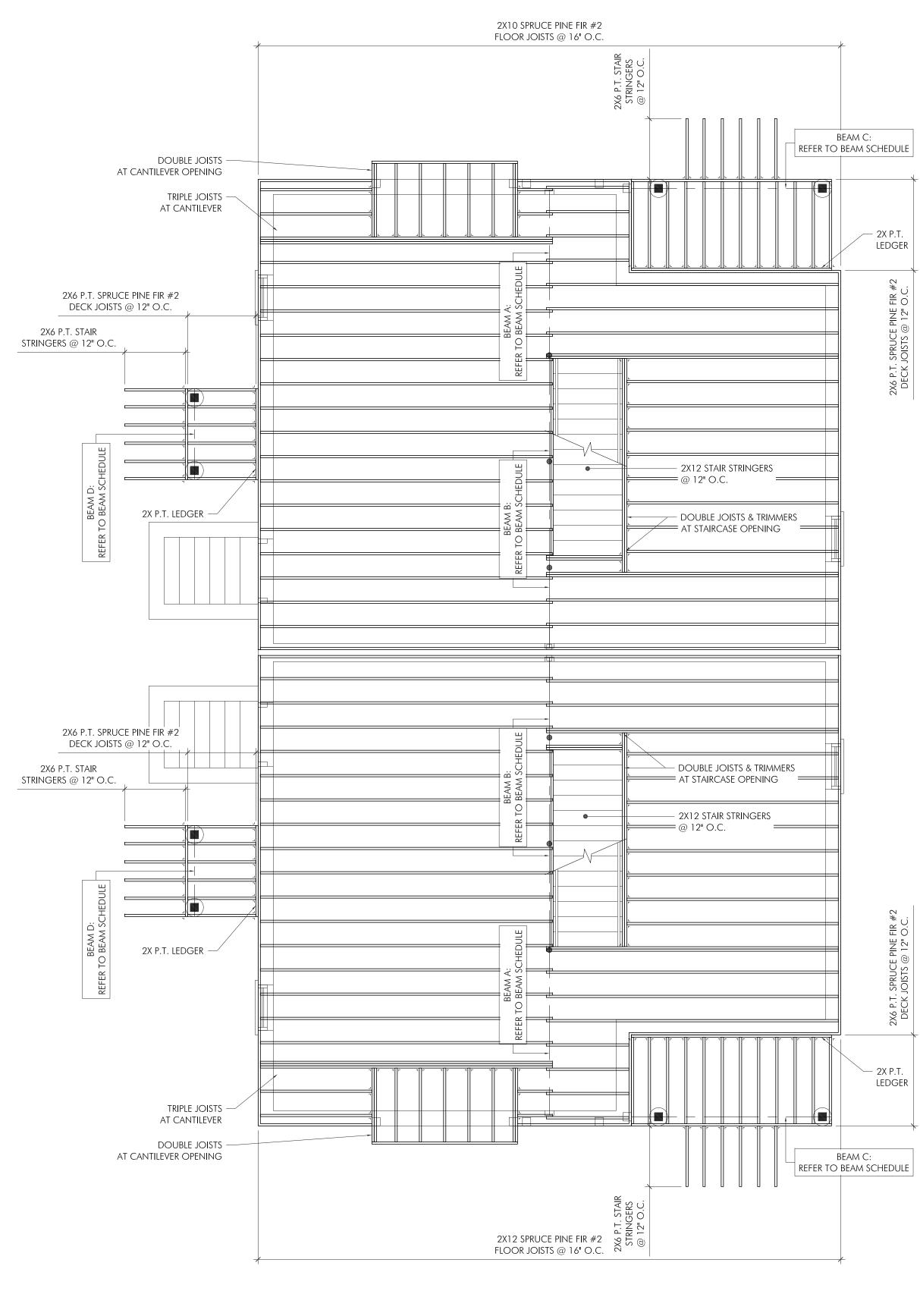
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PX4 WOOD STUDS @ 16' O.C. 3/4' AIR GAP (2) LAYERS 1' NATIONAL GYPSUM FIRE-SHIELD SHAFTUINER XP, OR APPROVED EQUAL 2' H-STUDS 3/4' AIR GAP 2' AVW OOD STUDS @ 16' O.C. 3' HBERGLASS BATT INSULATION 5/6' TYPE 'X' GYPSUM WALL BOARD, FINISH AS SELECTED BY OWNER EARING) EXTEND WALLTIGHT TO UNDERSIDE OF DECK, SEAL TIGHT. SEAL ALL JOINTS, PENETRATIONS, AND OPENINGS WITH 3-M FIRER RATED SEALANT, OR APPROVED EQUAL. INSTALL TIRE DAWHERS AT ALL DUCT PENETRATIONS. CHERWINE NOTED. OTHERWISE NOTED. OTHERWISE NOTED. OTHERWISE NOTED. OTHERWISE NOTE				finish a	S SELECT	ed by o	WNER					STAMP:	
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OR APPROVED EQUAL OR APPROVED EQUAL 2" H-STUDS 3/4" AIR GAP 2X4 WOOD STUDS @ 16" O.C. 3" FIBERGLASS BATT INSULATION 5/8" TYPE 'X" GYPSUM WALL BOARD, FINISH AS SELECTED BY OWNER EERING) EXTEND WALL TIGHT TO UNDERSIDE OF DECK, SEAL TIGHT. SEAL ALL JOINTS, PENETRATIONS, AND OPENINOS WITH 3.M FIRE RATED SEALANT, OR APPROVED EQUAL, INSTALL FIRE DAMPERS AT ALL DUCT PENETRATIONS. ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 2 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS ITERIOR WALLS TO BE CONSIDERED PARTITION TYPE 3 UNLESS						–						CISTERED AR	CHITE
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Image: construction is to comply with any and all applicable local and state building codes. DRAWN BY: CJG CHECKED BY: DMC G.1 All construction is to comply with any and all applicable local and state building codes. DRAWING TITLE: DRAWING TITLE: G.2 EACH PRIME SUBCONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR REQUIRED PERMITS AND SCHEDULING REQUIRED INSPECTIONS UNLESS DIRECTED OTHERWISE BY OWNER. DRAWING LIST G.3 GENERAL CONTRACTOR SHALL ERECT TEMPORARY BARRIERS, WARNING SIGNS, CONSTRUCTION FENCING ETC. TO DRAWING LIST												DRAWING SCALE:	NTS
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							equired) PERMIT	s and			GENERAL INFORMATION	& DRAWING LIST
				RRIERS, WA	ARNING SIC	gns, con	ISTRUCTI	ION FENG	CING ET(C. TO			
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G.5 CONTRACTOR SHALL PROTECT ALL REQUIRED MEANS OF EGRESS THROUGHOUT ENTIRE CONSTRUCTION PERIOD.													r
G.6 CONTRACTOR SHALL BE RESPONSIBLE FOR THE BRACING AND SHORING OF THE STRUCTURE THROUGH OUT THE ENTIRE CONSTRUCTION PERIOD.			ISIBLE FOR THE BRACI	NG AND S	HORING C	OF THE STR	UCTURE	THROUG	JH OUT	ſHE		(,	()
PERMITTING & LOCAL REQUIREMENTS	PERMITTI	NG & LOO	CAL REQU	JIRE	1en	ΓS							





CO	CARBON MONOXIDE DETECTOR
SD	SMOKE DETECTOR (PHOTO ELECTRIC)
FL	BATHROOM EXHAUST FAN LIGHT PANASONIC FV-05-11VKSL1 OR APPROVEI

FLOOR AREA, GROSS (SF)					
	UNIT A	UNIT B			
BASEMENT	774	774			
1ST FLOOR	782	782			
2ND FLOOR	774	774			
	2,330	2,330			

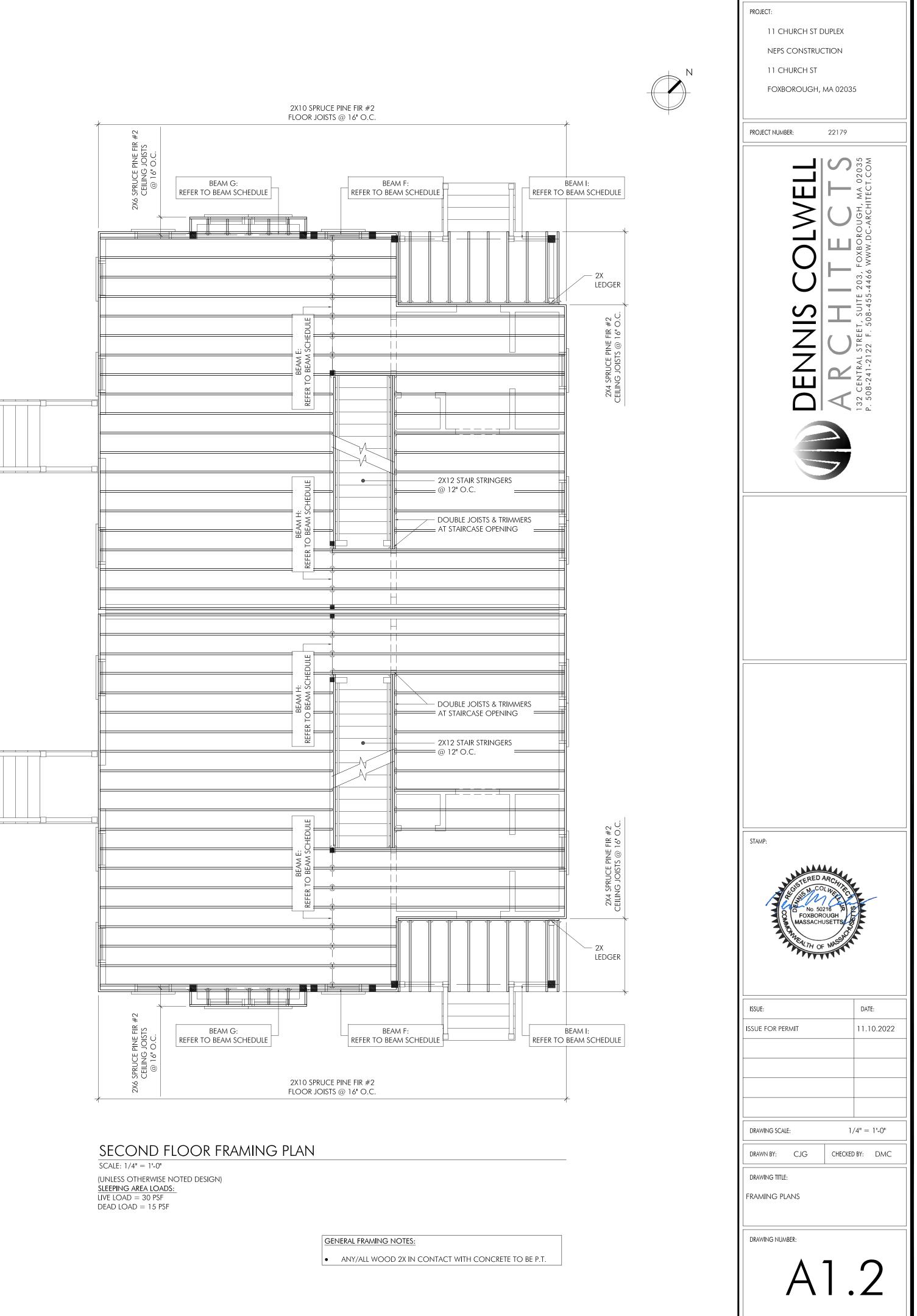


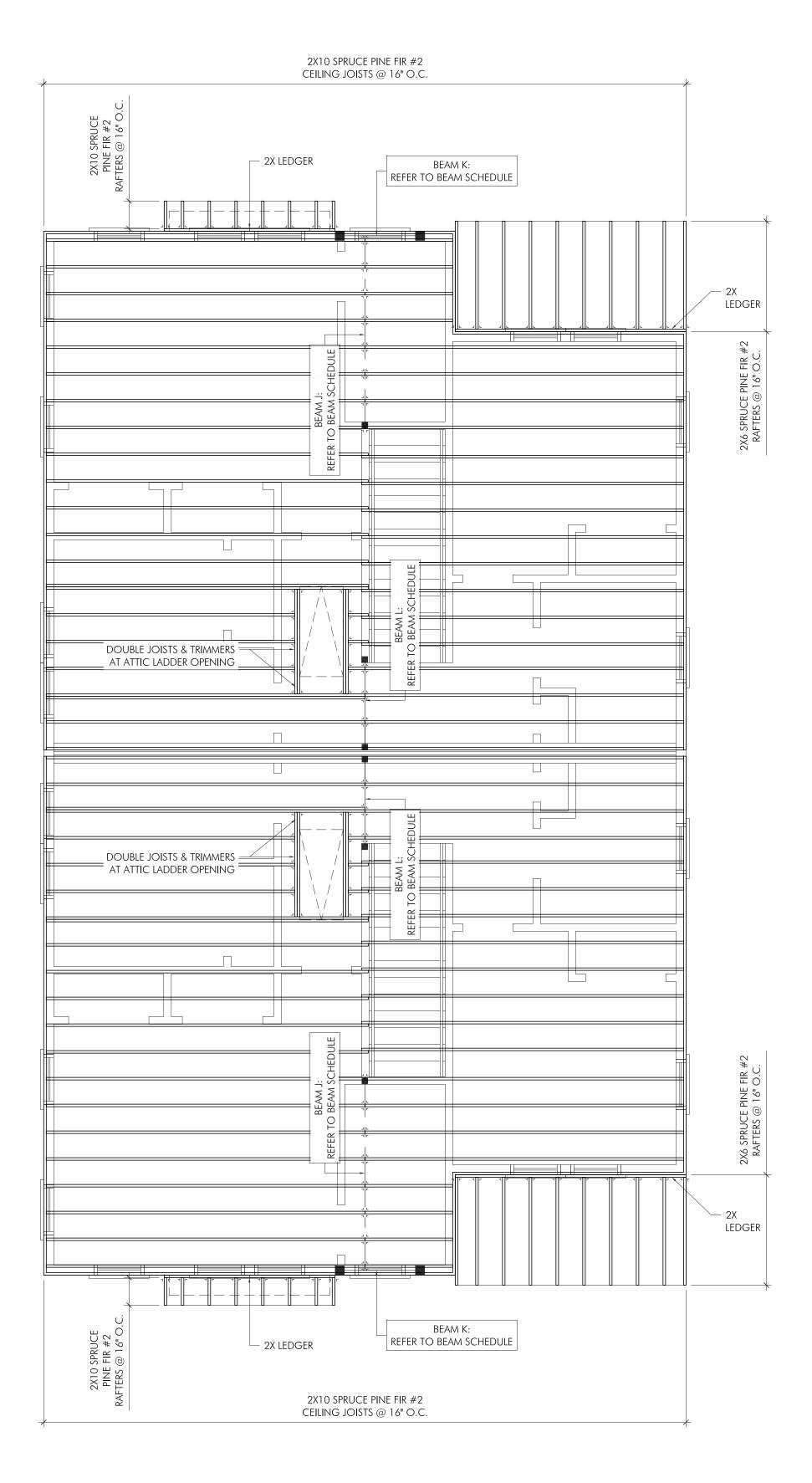
FIRST FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0" (UNLESS OTHERWISE NOTED DESIGN) LIVING AREA LOADS: LIVE LOAD = 40 PSF DEAD LOAD = 15 PSF

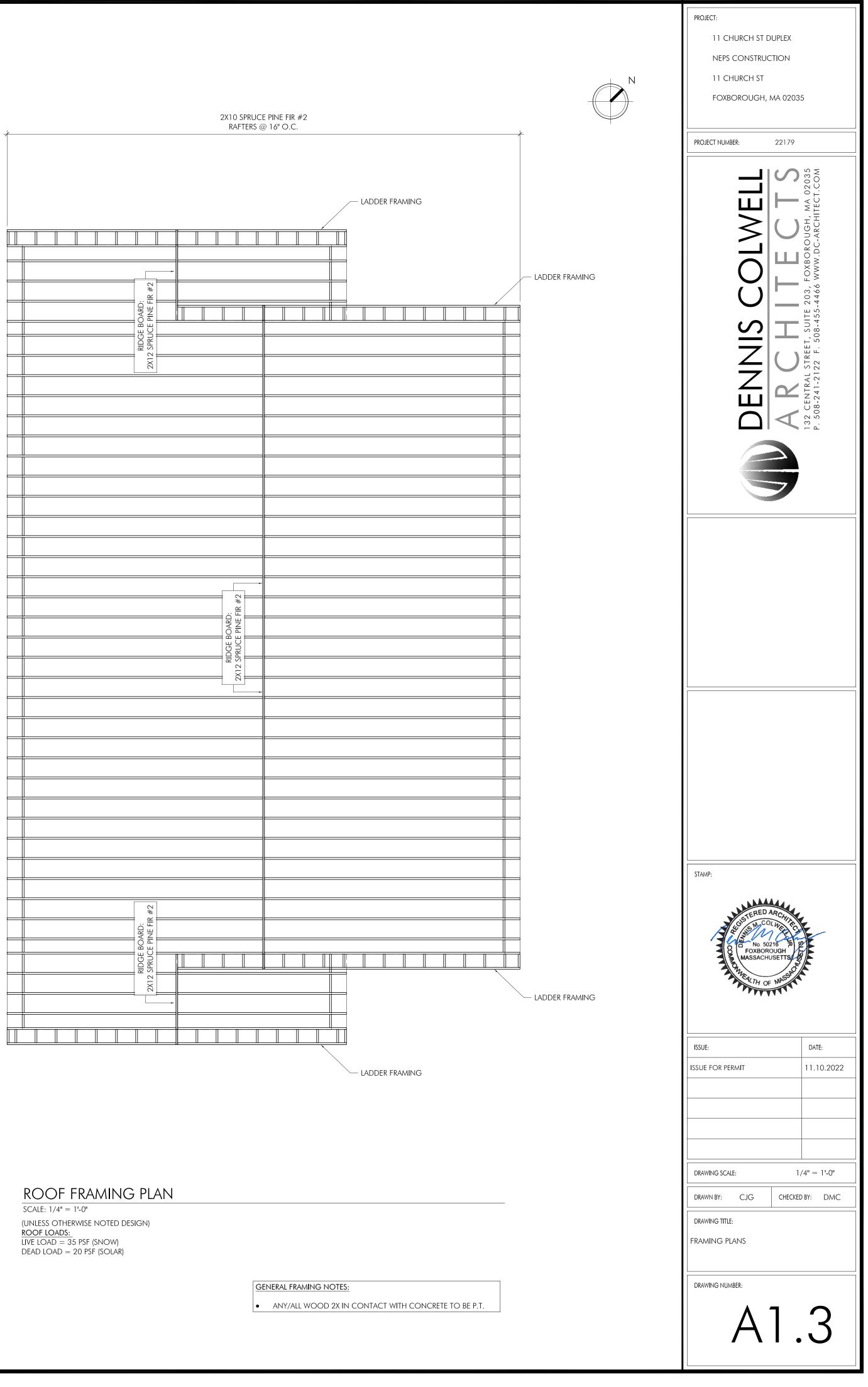
ADD ALTERNATIVE:

• FIRST FLOOR FRAMING: 2X10 SPRUCE PINE FIR #2 FLOOR JOISTS @ 12" O.C.





CEILING FRAMING PLAN SCALE: 1/4" = 1'-0" (UNLESS OTHERWISE NOTED DESIGN) ATTIC W/ LIMITED STORAGE LOADS: LIVE LOAD = 20 PSF DEAD LOAD = 10 PSF

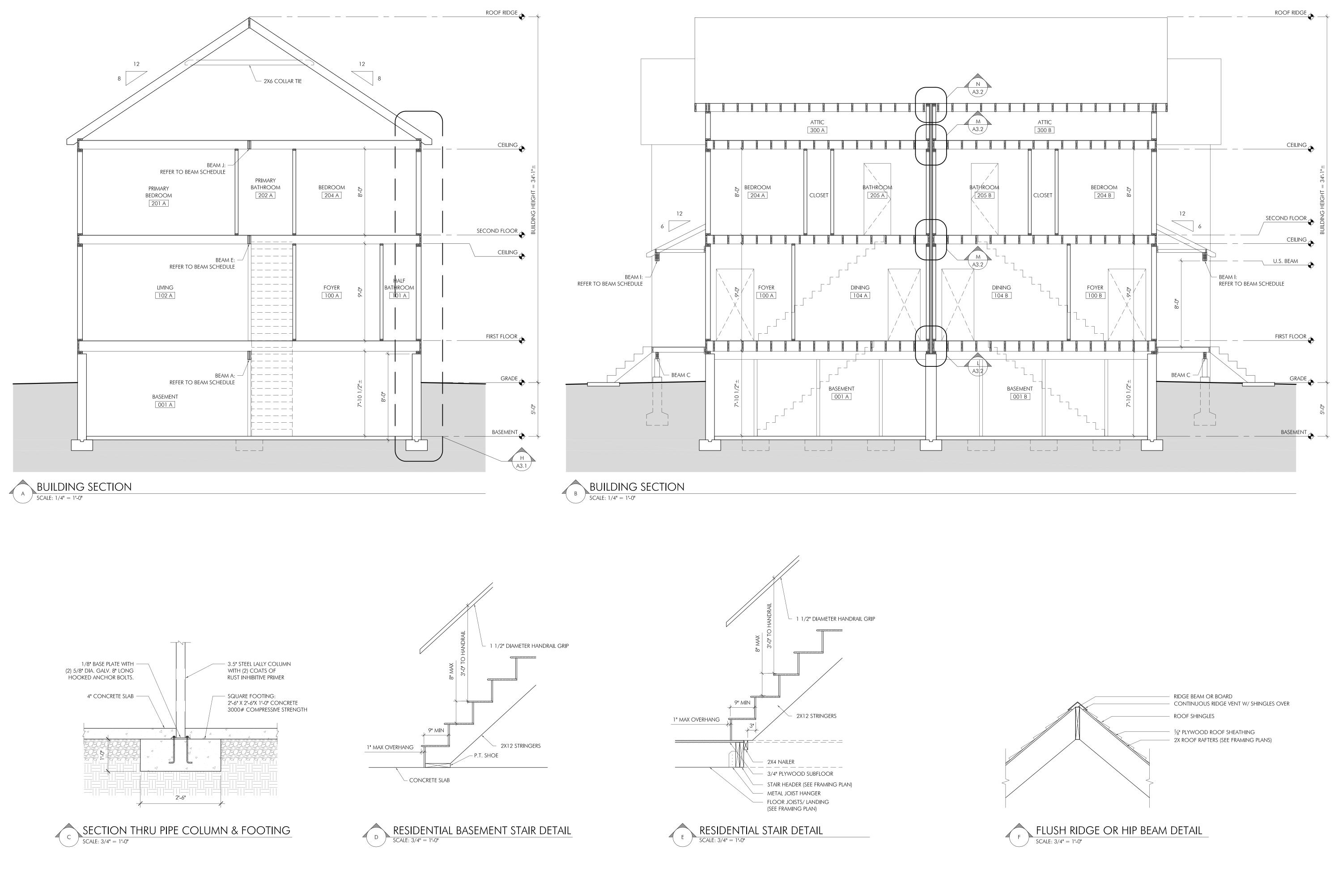








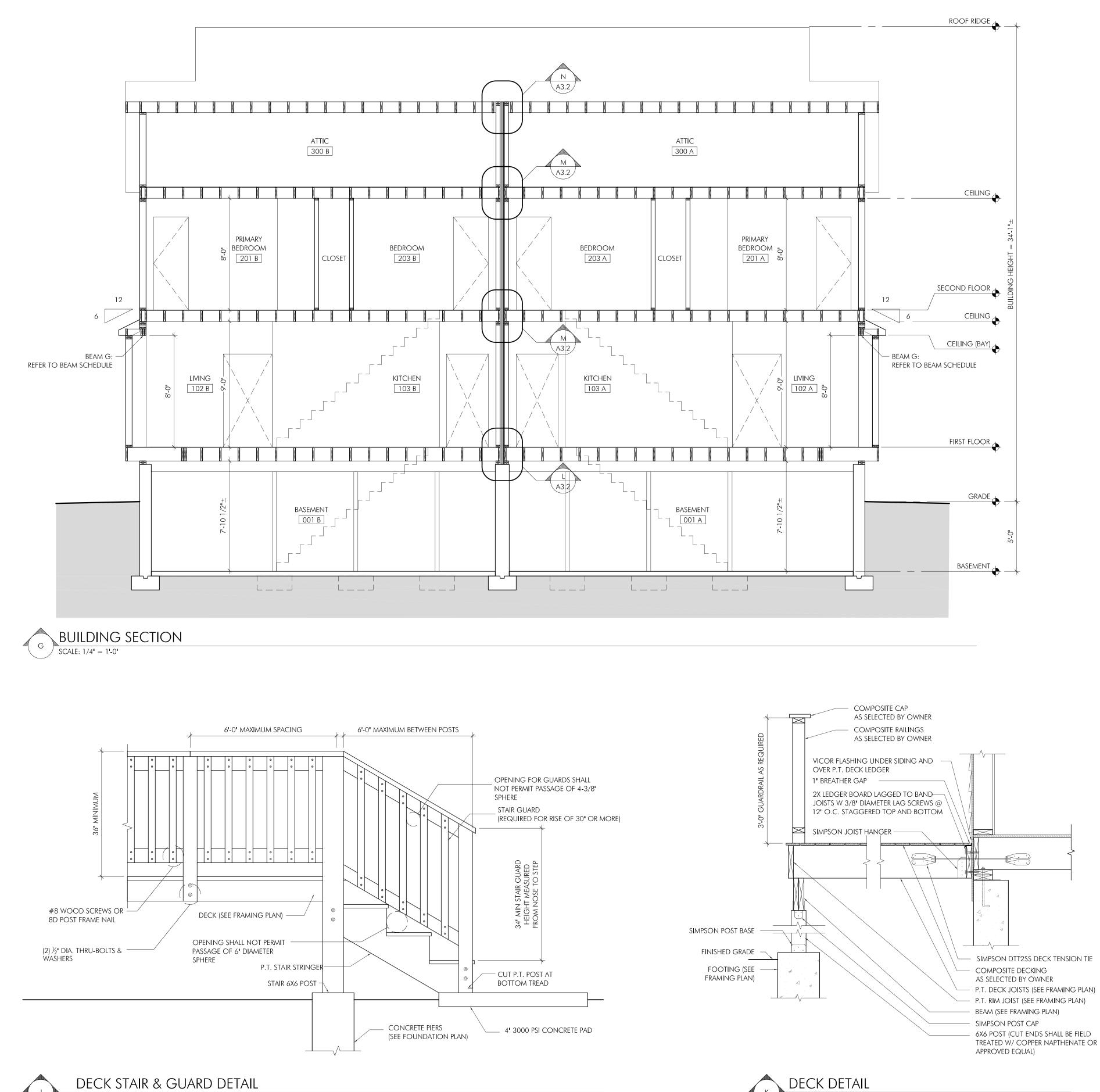






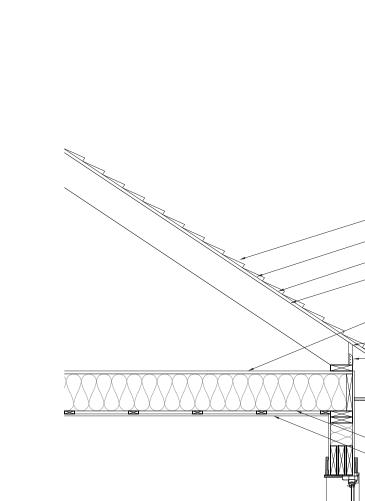
 11 CHURCH ST DUPLEX NEPS CONSTRUCTION 11 CHURCH ST FOXBOROUGH, MA 0203 	5
PROJECT NUMBER: 22179	
DENNIS COLWELL ARCHITECTS	132 CENTRAL STREET, SUITE 203, FOXBOROUGH, MA 02035 P. 508-241-2122 F. 508-455-4466 WWW.DC-ARCHITECT.COM
STAMP:	
ISSUE:	DATE:
ISSUE FOR PERMIT	11.10.2022
DRAWING SCALE: A	s noted
	DBY: DMC
drawing title: BUILDING SECTIONS DETAILS	
DRAWING NUMBER:	0

PROJECT:

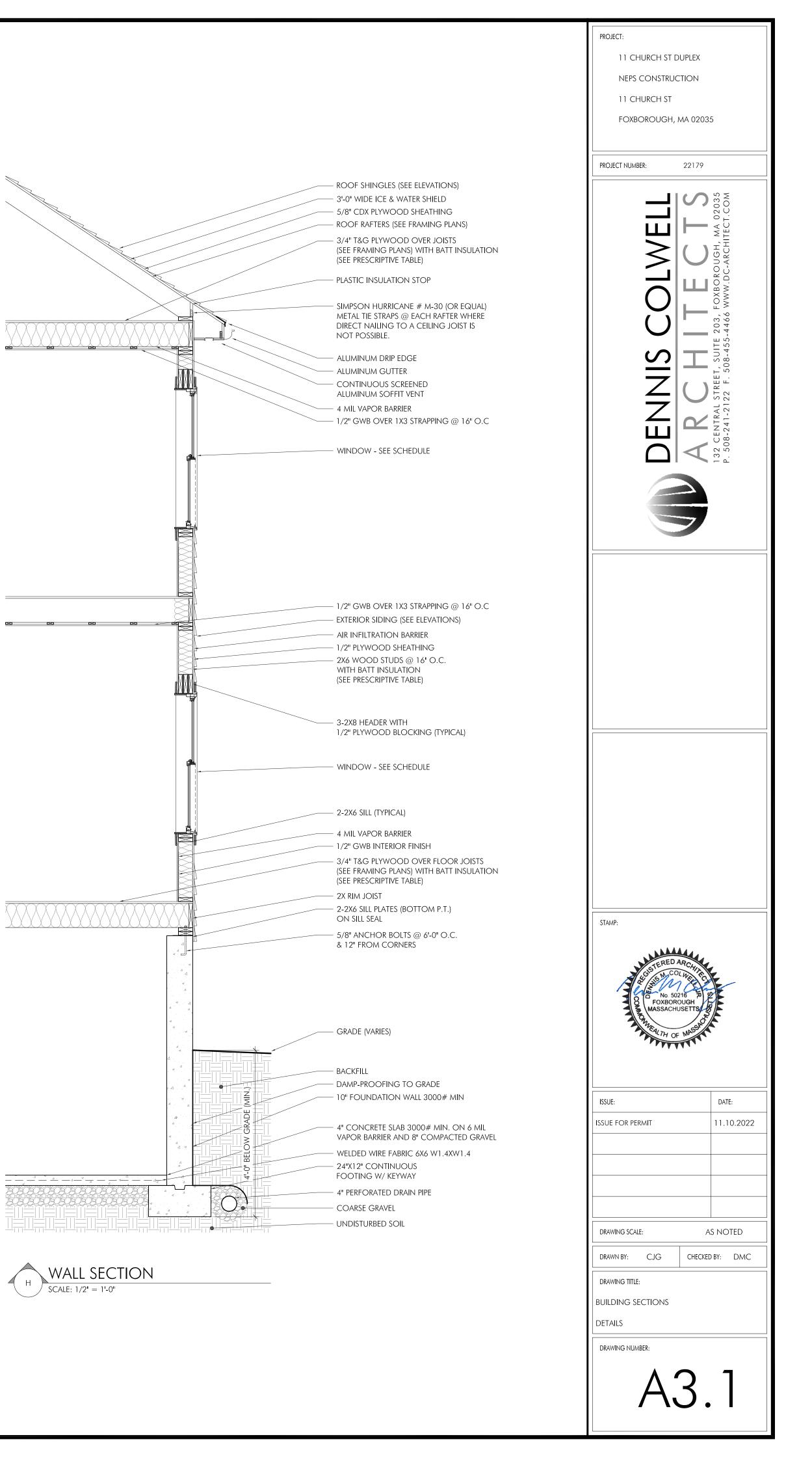


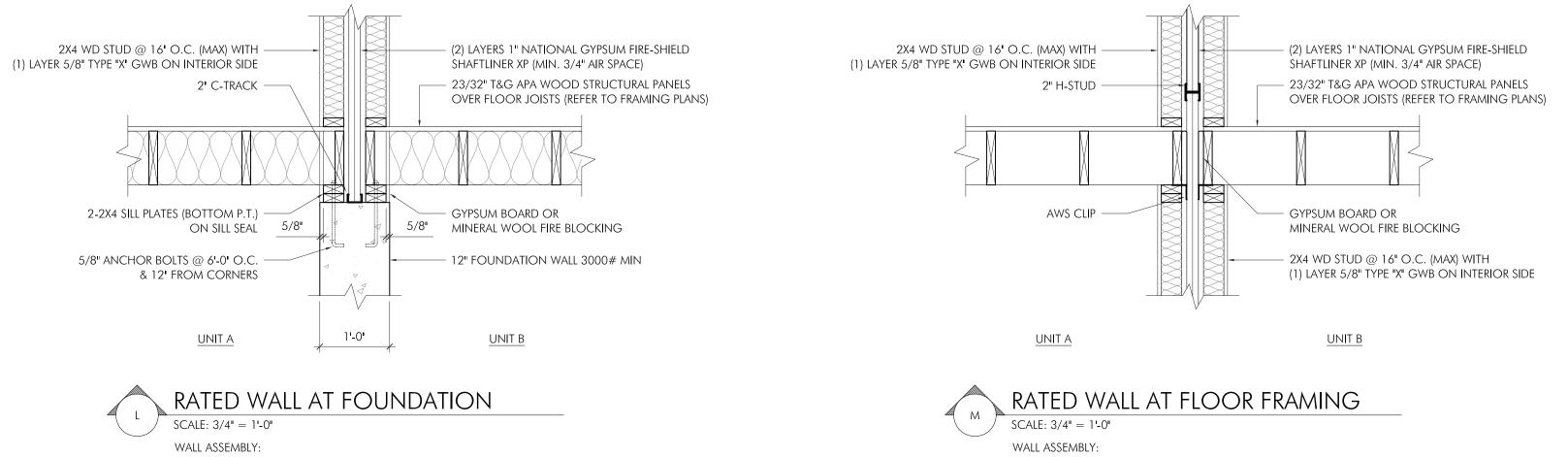
SCALE: 3/4" = 1'-0"

DECK STAIR & GUARD DETAIL SCALE: 3/4" = 1'-0"



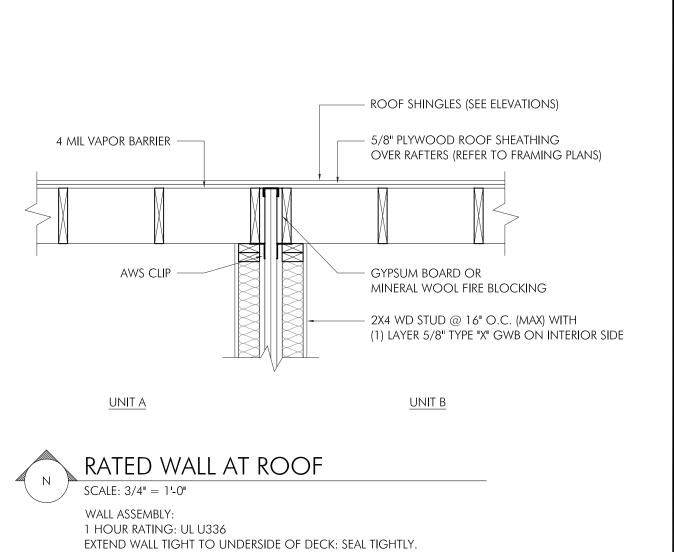






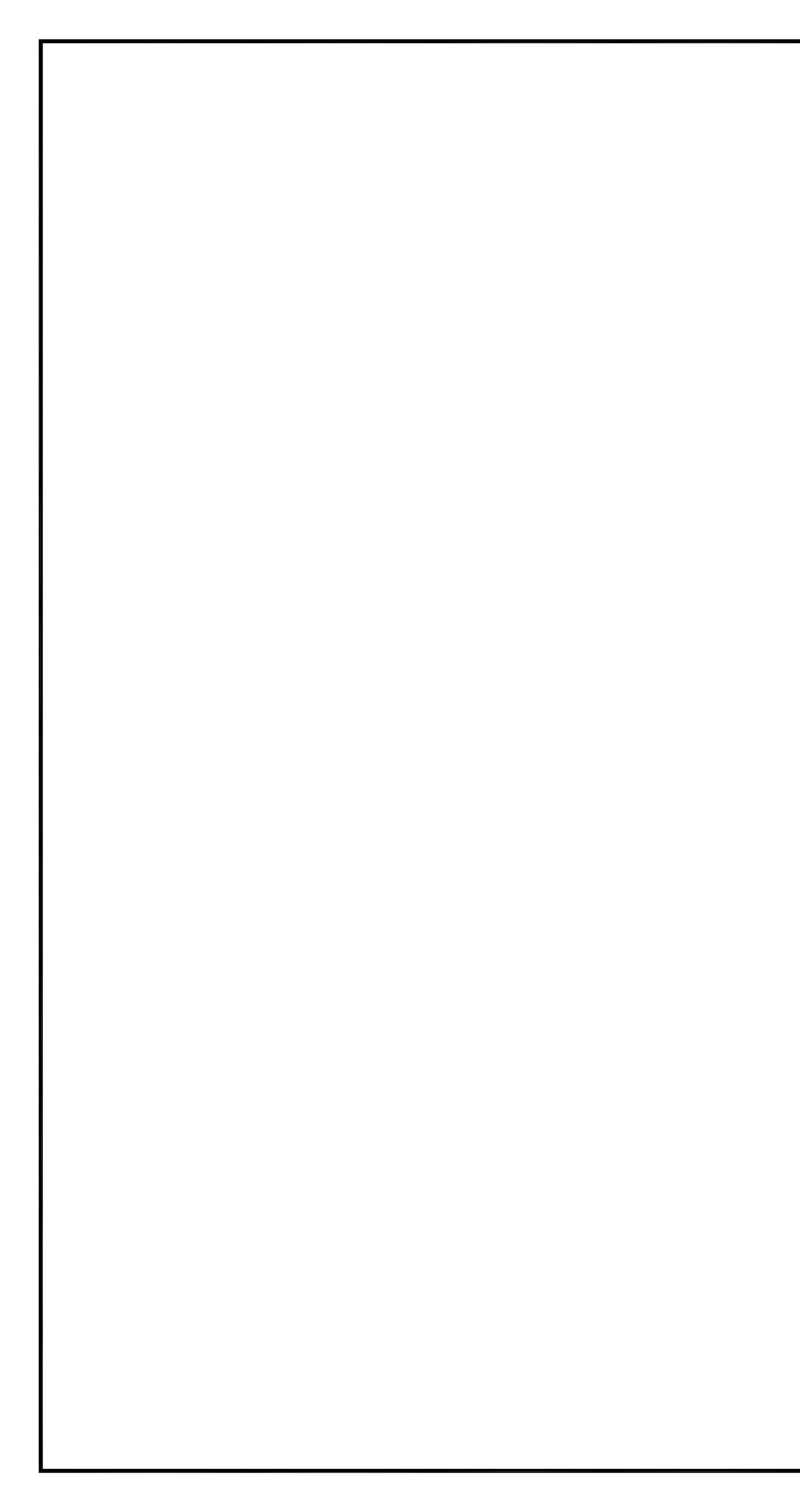
1 HOUR RATING: UL U336 EXTEND WALL TIGHT TO UNDERSIDE OF DECK: SEAL TIGHTLY.

1 Hour Rating: UL U336 EXTEND WALL TIGHT TO UNDERSIDE OF DECK: SEAL TIGHTLY.



NEPS CONSTRUCTION					
FOXBOROUGH, MA 02035					
PROJECT NUMBER: 22179					
DENNIS COLMEIL DENNIS COLMEIL A R C H I T E C T S 132 CENTRAI STREET, SUITE 203, FOXBOROUGH, MA 02035 P. 508-241-2122 F. 508-455-4466 WWW.DC-ARCHITECT.COM					
STAMP:					
No. 50216 FOXBOROUGH MASSACHUSETTS COMMENT HIGH TH OF MASSAC					
ISSUE: DATE:					
ISSUE FOR PERMIT 11.10.20					
DRAWING SCALE: AS NOTED					
DRAWN BY: CJG CHECKED BY: DMC					
DRAWING TITLE:					
BUILDING SECTIONS					
DETAILS					
drawing number:					

PROJECT:



DOOR SCHEDULE

TAG QTY DIMENSION		DIMENSION	ROUGH OPENING	MANUFACTURER	MATERIAL	
1	2	3'-0" X 6'-8" WITH LITE	AS VERIFIED BY G.C.	THERMATRU	FIBERGLASS & GLASS	
2	2	3'-0" X 6'-8"	AS VERIFIED BY G.C.	THERMATRU	FIBERGLASS	
3	2	3'-0" X 6'-8"	AS VERIFIED BY G.C.	THERMATRU	FIBERGLASS	
4	14	2'-6" X 6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY GC	WOOD	
5	2	2'-4" X 6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY GC	WOOD	
6	2	1'-6" X 6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY GC	WOOD	
7	8	(2) 2'-0" X 6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY GC	WOOD	

*ALL QUANTITIES TO BE VERIFIED BY G.C. BEFORE ORDERING **ALL ROUGH OPENINGS TO BE VERIFIED IN FIELD BEFORE ORDERING

	WINDOW SCHEDULE								
TAG	QTY	MODEL NUMBER	ROUGH OPENING	MANUFACTURER	MATERIAL				
A	34	2-6/5-0	2'-6" X 5'-0"	PELLA ENCOMPASS	VINYL				
A+	4	2-6/5-0 - TEMPERED	2'-6" X 5'-0"	PELLA ENCOMPASS	VINYL				
В	4	2-6/4-6	2'-6" X 4'-6"	PELLA ENCOMPASS	VINYL				
С	2	2-6/3-2	2'-6" X 5'-0"	PELLA ENCOMPASS	VINYL				
D	4	2-6/1-6 HOPPER	AS VERIFIED BY G.C.	PELLA	VINYL				

*ALL QUANTITIES TO BE VERIFIED BY G.C. BEFORE ORDERING **ALL ROUGH OPENINGS TO BE VERIFIED IN FIELD BEFORE ORDERING

		BEAM SCHEDULE					
TAG	QTY	DIMENSION	MANUFACTURER	MATERIAL			
A		(2) 1.75 X 9.25	BOISE CASCADE	2.0E-2900 - APA EWS LVL STRESS CLASSES	1U		
В		(3) 1.75 X 9.25	BOISE CASCADE	2.0E-2900 - APA EWS LVL STRESS CLASSES	٩U		
С		(2) 1.5 X 7.25 P.T.	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR (PRESSURE TREATED)	٩U		
D		(2) 1.5 X 5.5 P.T.	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR (PRESSURE TREATED)	٩U		
E		(2) 1.75 X 9.25	BOISE CASCADE	2.0E-2900 - APA EWS LVL STRESS CLASSES	AE		
F		(3) 1.5 X 7.25	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR	AE		
G		(3) 1.5 X 5.5	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR	AE		
Н		(2) 1.5 X 9.25	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR	AE		
		(3) 1.5 X 9.25	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR	AE		
J		(2) 1.75 X 9.25	BOISE CASCADE	2.0E-2900 - APA EWS LVL STRESS CLASSES	AE		
К		(3) 1.5 X 7.25	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR	AE		
L		(2) 1.5 X 9.25	AS SELECTED BY G.C.	#2 SPRUCE PINE FIR	AE		

*ALL LENGTHS & QUANTITIES TO BE VERIFIED IN FIELD BY G.C. BEFORE ORDERING.

**LVL BEAMS CONNECTORS: 1/2" STAGGERED THRU BOLTS GRADE A307, SDS SCREWS OR HIGHER

BOLTING PATTERN: MINIMUM 2" FROM TOP & BOTTOM AND 2 1/2" FROM ENDS. BOLTS EVERY 16" (VERIFY WITH MANUFACTURER.) CAUTION: DIFFERENTIAL SETTLEMENT MAY OCCUR BETWEEN SAWN LUMBER AND ENGINEERED WOOD COMPOSITES. GC TO VERIFY EXACT LENGTHS IN FIELD PRIOR TO ORDERING.

***STEEL BEAMS

CONNECTORS: 1/2" STAGGERED THRU BOLTS GRADE A307 OR HIGHER

BOLTING PATTERN: MINIMUM 2" FROM TOP & BOTTOM AND 2 1/2" FROM ENDS. BOLTS EVERY 16" (VERIFY WITH MANUFACTURER.) FOUNDATION SUPPORT: PROVIDE 3-1/2" MIN. BEARING LENGTH AS WIDE AS BEAM. SHIM AS NECCESSARY WITH STEEL PLATES, WELDED TOGETHER AND TO BEAM.

COLUMN SUPPORT: PROVIDE 1/4" THICK STEEL PLATE WITH A 3-1/2" MIN. BEARING LENGTH AS WIDE AS BEAM. WELD PLATE TO COLUMN and beam.

STEEL FABRICATOR IS RESPONSIBLE FOR FINAL CONNECTION DETAILS AND DESIGN IN ACCORDANCE WITH THE MINIMUM REQUIRMENTS OF THE LATEST EDITION OF THE A.I.S.C. DETAILING MANUAL. GC TO VERIFY EXACT LENGTHS IN FIELD PRIOR TO ORDERING.

DESCRIPTION EXTERIOR 6-PANEL SMOOTH WITH PRIVACY LITE, AS SELECTED BY GC FOYER 100 EXTERIOR 6-PANEL SMOOTH, AS SELECTED BY GC EXTERIOR, AS SELECTED BY GC 6-PANEL SMOOTH, AS SELECTED BY GC 6-PANEL SMOOTH, AS SELECTED BY GC 6-PANEL SMOOTH, AS SELECTED BY GC CLOSET DOUBLE DOORS, AS SELECTED BY GC

LOCATION KITCHEN 103 BASEMENT 001 VARIOUS FOYER 100 HALLWAY 200 BEDROOMS

DESCRIPTION DOUBLE HUNG, 6/1 DOUBLE HUNG, 6/1, TEMPERED DOUBLE HUNG, 6/1 DOUBLE HUNG, 6/1 HOPPER

LOCATION VARIOUS VARIOUS VARIOUS KITCHEN 103 BASEMENT 001

LOCATION

UNDER LIVING 102 UNDER KITCHEN 103 UNDER ENTRY PORCH UNDER KITCHEN ENTRY ABOVE LIVING 102 ABOVE LIVING 102 ABOVE LIVING 102 ABOVE KITCHEN 103 ABOVE ENTRY PORCH ABOVE PRIMARY BATHROOM 202 ABOVE PRIMARY BATHROOM 202 ABOVE HALLWAY 200

