

GARCIA RESIDENCE

SINGLE FAMILY HOME RESTORATION

55 JACKSON ST. AURORA, IL 60505

CODE ANALYSIS

PROJECT DATA

- ZONING CLASSIFICATION: R2
- OCCUPANCY CLASSIFICATION: R
- CONSTRUCTION TYPE: TYPE 5B
- AUTOMATIC FIRE SUPPRESSION: YES NO
- ALLOWABLE BUILDING HEIGHT: 30'-0"
- ACTUAL BUILDING AREA:
 - EXISTING FIRST FLOOR: 1,413 Sq.Ft.
 - SECOND FLOOR ADDITION: 1,357 Sq.Ft.
 - TOTAL AREA ABOVE GROUND: 2,770 Sq.Ft. (0.29%)

GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
- NOTES WHICH APPLY AT ALL SIMILAR CONDITIONS SHALL GOVERN WHETHER REPEATED OR NOT.
- ALL WORK TO BE PERFORMED TO BE IN COMPLIANCE WITH ALL APPLICABLE CODES REGULATORY AGENCIES, STATUTES AND RECOGNIZED INDUSTRY STANDARDS.
- ALL WORK SHALL BE PERFORMED IN A TRADESMAN-LIKE MANNER AND SHALL CONFORM TO THE BEST STANDARD PRACTICES OF THE TRADE INVOLVED.
- ALL PERMITS TO BE BY OWNER
- ALL CONTRACTORS SHALL BE REQUIRED TO PURCHASE A BUSINESS LICENSE SHALL IT BE REQUIRED BY VILLAGE.

BUILDING CODES

ZONING
 BUILDING

CITY OF AURORA ZONING ORDINANCE
 2015 INTERNATIONAL BUILDING CODE - INCLUDING APPENDIX CHAPTERS (A, B, F, H, K);
 2015 INTERNATIONAL MECHANICAL CODE - INCLUDING APPENDIX CHAPTER (A);
 2015 INTERNATIONAL FUEL AND GAS CODE - INCLUDING APPENDIX CHAPTERS (A, B, C, D);
 2015 INTERNATIONAL RESIDENTIAL CODE - INCLUDING APPENDIX CHAPTERS (E, F, G, J, K, M, O, P);
 2015 INTERNATIONAL EXISTING BUILDING CODE - INCLUDING APPENDIX CHAPTERS (A, B);
 2015 INTERNATIONAL FIRE CODE - INCLUDING APPENDIX CHAPTERS (A, B, C, D, F, H, I, J);
 2015 INTERNATIONAL SWIMMING POOL AND SPA CODE;
 2015 INTERNATIONAL SOLAR ENERGY PROVISIONS;
 2014 NATIONAL ELECTRICAL CODE (NFPA 70) AS ADOPTED AND AMENDED BY ARTICLE III. ELECTRICITY SEC. 12-31 AND 12-32 OF THE AURORA CODE OF ORDINANCES.

DESIGN CRITERIA LOADS

LIVE LOADS:		ROOF LIVE LOADS:	
ATTIC W/STORAGE	20 PSF	RISE 4 INCHES PER FOOT	16 PSF
ATTIC W/O STORAGE	10 PSF	(1:3) TO LESS THAN 12	
GUARDRAILS & HANDRAILS	200 PSF	INCHES PER FOOT (1:1)	
ROOMS OTHER THAN SLEEPING ROOMS	40 PSF	SNOW LOAD:	30 PSF
SLEEPING ROOMS	30 PSF	WIND SPEED:	90 MPH
STAIRS	40 PSF		

2018 ILL. ENERGY CONSERVATION CODE

SECTION R402 BUILDING THERMAL ENVELOPE
TABLE R402.1.2
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT.

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{d,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^f	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE WALL R-
5 and Marine 4	0.32	0.55	NR	49	20 OR 13+5	13/17	30	10/13	10, 2 FT	15/19

SHEET INDEX

NO.	SHEET TITLE
T1	COVER SHEET & SITE PLAN
A0	DEMOLITION PLANS
A1	FLOOR PLANS
A2	DETAILS
A3	NEW ELEVATIONS
A4	GARAGE PLANS
M1	GENERAL NOTES AND DETAILS
M2	MECHANICAL FLOOR PLANS
M2	MECHANICAL NOTES AND SCHEDULES
P1	PLUMBING FLOOR PLANS
P2	PLUMBING DETAILS AND RISER DIAGRAMS
E1	ELECTRICAL FLOOR PLANS

ABBREVIATIONS

AB	ANCHOR BOLT	ID	INSIDE DIMENSION
ACT	ACOUSTICAL CLG TILE	INCL	INCLUDING
AD	AREA DRAIN	INFO	INFORMATION
ADDL	ADDITIONAL	INSUL	INSULATION
ADJ	ADJUSTABLE	JT	JOINT
AFF	ABOVE FINISHED FLOOR	KDHM	KNOCK DOWN HOLLOW METAL
AL	ALUMINUM	LAM	LAMINATE
ANOD	ANODIZED	LIN	LINEAR
APPROX	APPROXIMATELY	LL	LOWER LEVEL
ARCH	ARCHITECTURAL	LP	LOW POINT
BD	BOARD	LWT	LIGHT WEIGHT
BETWN	BETWEEN	MAX	MAXIMUM
BLDG	BUILDING	MC	MINERAL CORE
BLK	BLOCK, BLOCKING	MECH	MECHANICAL
BM	BENCH MARK	MEJ	MASONRY EXPANSION JOINT
BOT	BOTTOM	MFR	MANUFACTURER
BRG	BEARING	MH	MANHOLE
BSMT	BASEMENT	MIN	MINIMUM
BUR	BUILT-UP ROOFING	MISC	MISCELLANEOUS
CAB	CABINET	MO	MASONRY OPENING
CAR	CARPET	MTD	MOUNTED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CJ	CONTROL JOINT	NLWT	NORMAL WEIGHT
CL	CENTER LINE	NO	NUMBER
CLG	CEILING	NOM	NOMINAL
CLR	CLEAR	NS	NEAR SIDE
CMT	CERAMIC MOSAIC TILE	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CO	CLEANOUT	OD	OUTSIDE DIAMETER
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS	PR	PAIR
CP	CEMENT PLASTER	PL	PLATE
CJ	CERAMIC TILE	PLAM	PLASTIC LAMINATE
CU	CUBIC	PLAS	PLASTER
DEMO	DEMOLITION	PLYWD	PLYWOOD
DET	DETAIL	PT	PAINT
DA	DIAMETER	PIFRT	PRESSURE IMPREGNATED FIRE RETARDANT TREATED
DM	DIMENSION	QT	QUARRY TILE
DF	DRINKING FOUNTAIN	R	RADIUS
DN	DOWN	REINF	REINFORCED, REINFORCING
DS	DOWNSPOUT	REQD	REQUIRED
DWG	DRAWING	RD	ROOF DRAIN
EA	EACH	RM	ROOM
EF	EACH FACE	RO	ROUGH OPENING
EL	ELEVATION	SC	SOLID CORE
ELEC	ELECTRIC	SCHED	SCHEDULE
EP	EPOXY PAINT	SEC	SECTION
EQ	EQUAL	SGT	STRUCTURAL GLAZED TILE
EQUIP	EQUIPMENT	SHT	SHEET
EWC	ELECTRIC WATER COOLER	SIM	SIMILAR
EXIST	EXISTING	SM	SHEET METAL
EXP	EXPANSION	SOG	SLAB ON GRADE
EXP JT	EXPANSION JOINT	SP	STARTING POINT
EW	EACH WAY	SPEC	SPECIFICATIONS
FD	FLOOR DRAIN	SQ	SQUARE
FDN	FOUNDATION	SS	STAINLESS STEEL
FE	FIRE EXTINGUISHER	STD	STANDARD
FEC	FIRE EXTINGUISHER CABINET	STL	STEEL
FHC	FIRE HOSE CABINET	STRUC	STRUCTURAL
FLR	FLOOR	ST&V	STAIN & VARNISH
FS	FAR SIDE	SUSP	SUSPENDED
FT	FEET	T&B	TOP AND BOTTOM
FTG	FOOTING	THK	THICK
GA	GAUGE, GAGE	TYP	TYPICAL
GALV	GALVANIZED	UNL	UNLESS NOTED OTHERWISE
GB	GYPNUM BOARD	UL	UNDERWRITERS LABORATORY
GL	GLASS	VCT	VINYL COMPOSITION TILE
GMU	GLAZED MASONRY UNIT	VENT	VENTILATION
GST	GLAZED STRUCTURAL TILE	VERT	VERTICAL
GP	GYPNUM PLASTER	VEST	VESTIBULE
GR	GRADE	VIF	VERIFY IN FIELD
HC	HOLLOW CORE	VOL	VOLUME
HDCP	HANDICAPPED	VT	VINYL TILE
HDWD	HARDWOOD	W/	WITH
HM	HOLLOW METAL	WC	WALL COVERING
HORZ	HORIZONTAL	WD	WOOD
HP	HIGH POINT	WH	WALL HEATER
HR	HOUR	W/O	WITHOUT
HT	HEIGHT	WWF	WELDED WIRE FABRIC
HTG	HEATING		
HVAC	HEATING / VENTILATION / AIR CONDITIONING		
HWY	HIGHWAY		

SYMBOLS/MATERIAL LEGEND

SECTION/DETAIL NOTATION

SECTION OR DETAIL REFERENCE: 4, 7, 1

SHEET WHERE SECTION / DETAIL IS DRAWN: A6, AB, A5

DETAIL SYMBOL

BUILDING SECTION

TENANT SPACE: 101

DEMOLITION

KEYNOTE: 1

EXISTING CONSTRUCTION TO BE REMOVED

PARTITION SYMBOL

REFERENCE LETTER FOR PARTITION TYPE: A

ELEVATION SYMBOL

EXTERIOR: 2, 4

ELEVATION LETTER: A4

SHEET NUMBER WHERE ELEVATION IS DRAWN: 2

INTERIOR: 1, 4

ELEVATION NUMBER: 1

SHEET NUMBER WHERE ELEVATION IS DRAWN: 3

DOOR SYMBOLS

DOOR NUMBER: 101

NEW DOOR

EXISTING DOOR TO REMAIN

ELEVATION MARKER

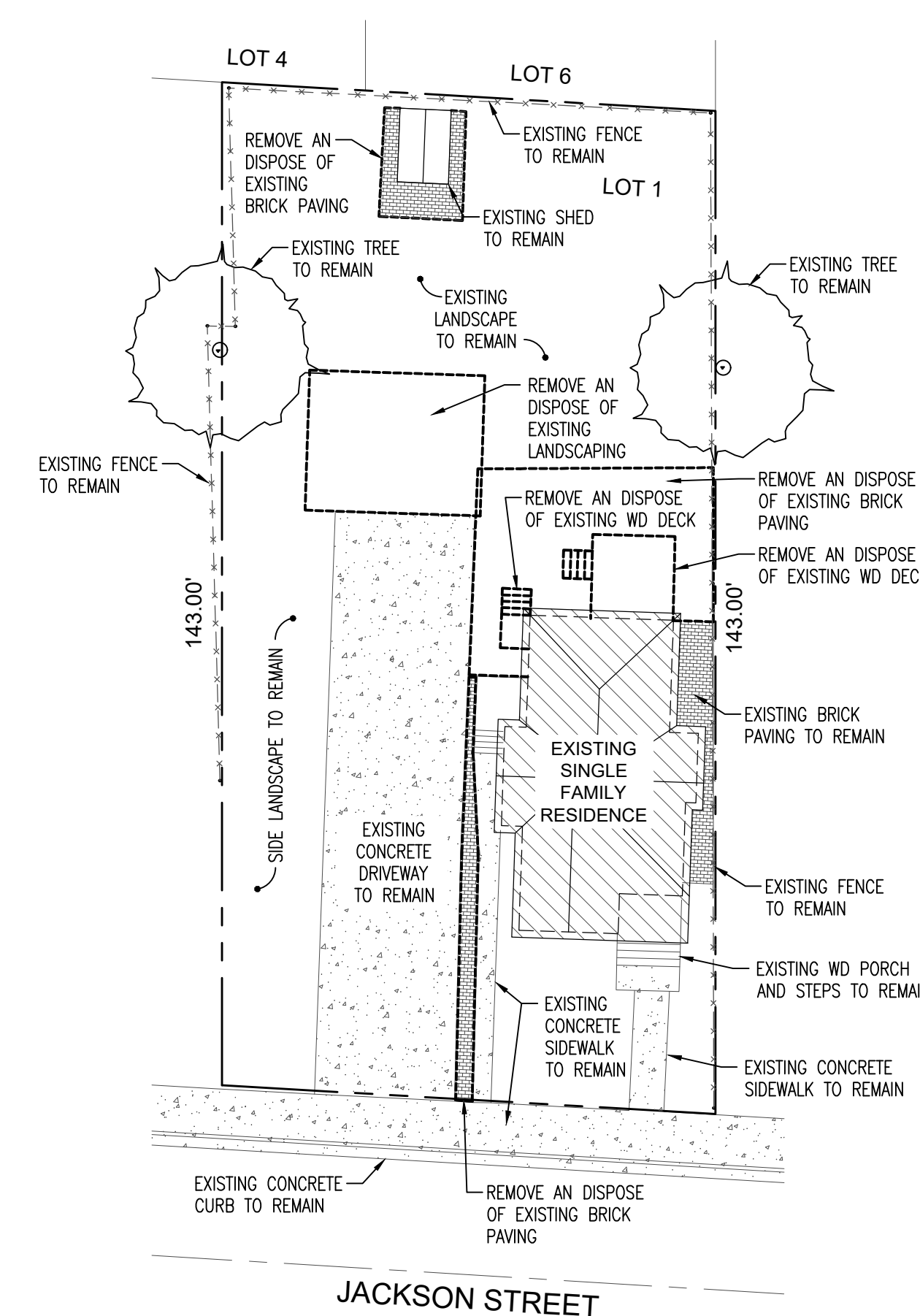
1ST FLOOR EL. 100'-0"

MATERIALS

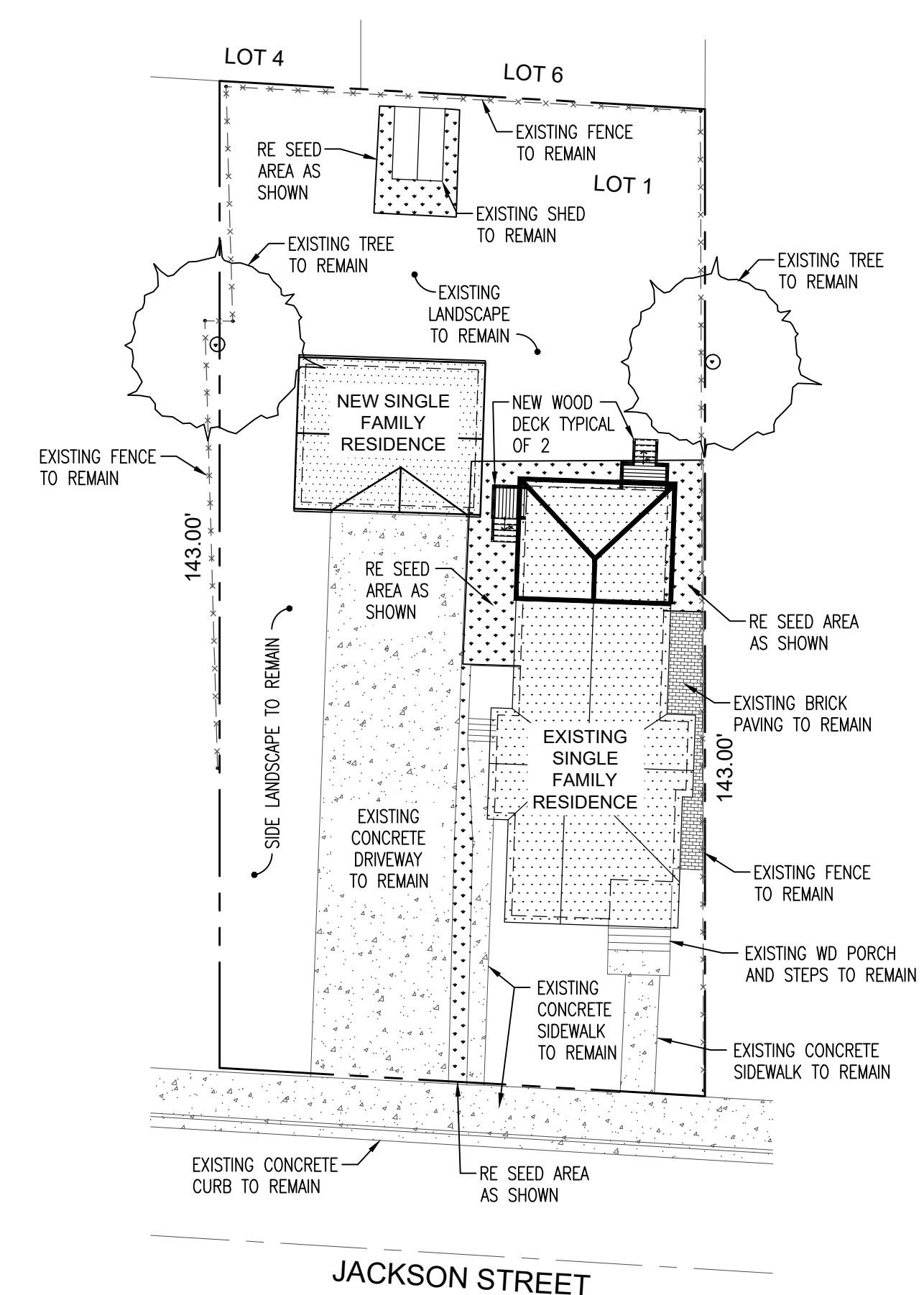
CONCRETE (CAST IN PLACE OR PRECAST)	GYPSUM
BRICK	PLYWOOD
CONCRETE MASONRY UNIT	WOOD, FINISHED
EARTH	WOOD, ROUGH
BATT INSULATION	STRUCTURAL STEEL LARGE SCALE
RIGID INSULATION	MISC METAL LARGE SCALE
UNDERBED MATERIAL	STRUCTURAL STEEL MISC METAL SMALL SCALE

FINAL LOT COVERAGE TABULATION

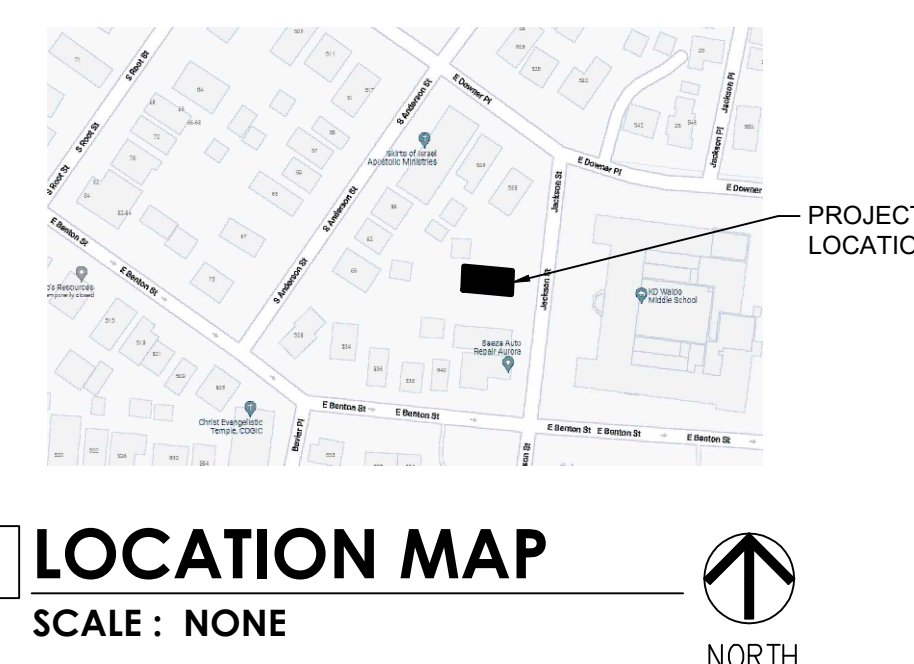
LOT AREA, MORE OR LESS = 10,071±
 39.1% ACTUAL COVERAGE = 3,936±



1 SITE PLAN - DEMOLITION
SCALE: 1" = 20'-0" NORTH



2 SITE PLAN - NEW WORK
SCALE: 1" = 20'-0" NORTH

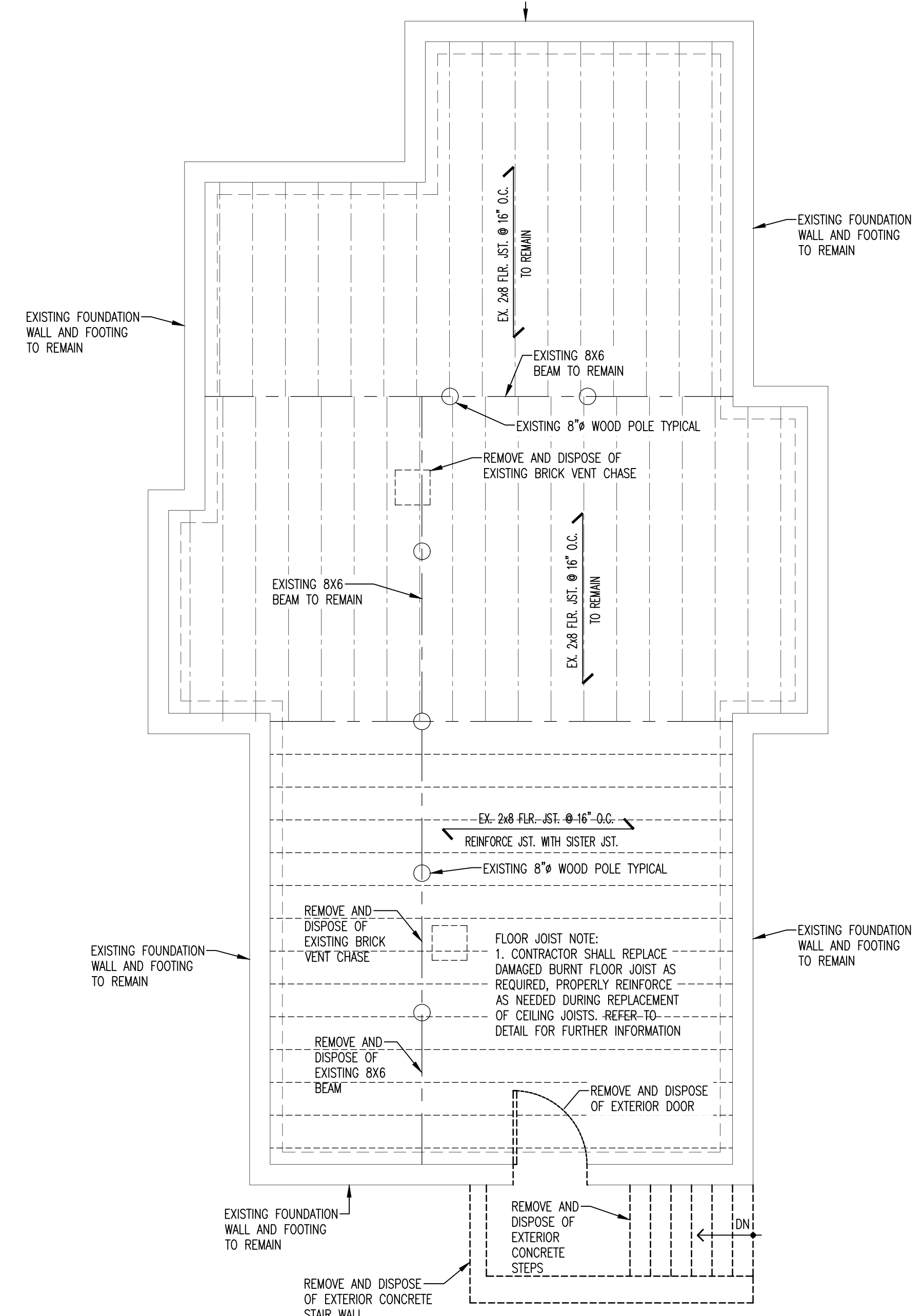


3 LOCATION MAP
SCALE: NONE NORTH

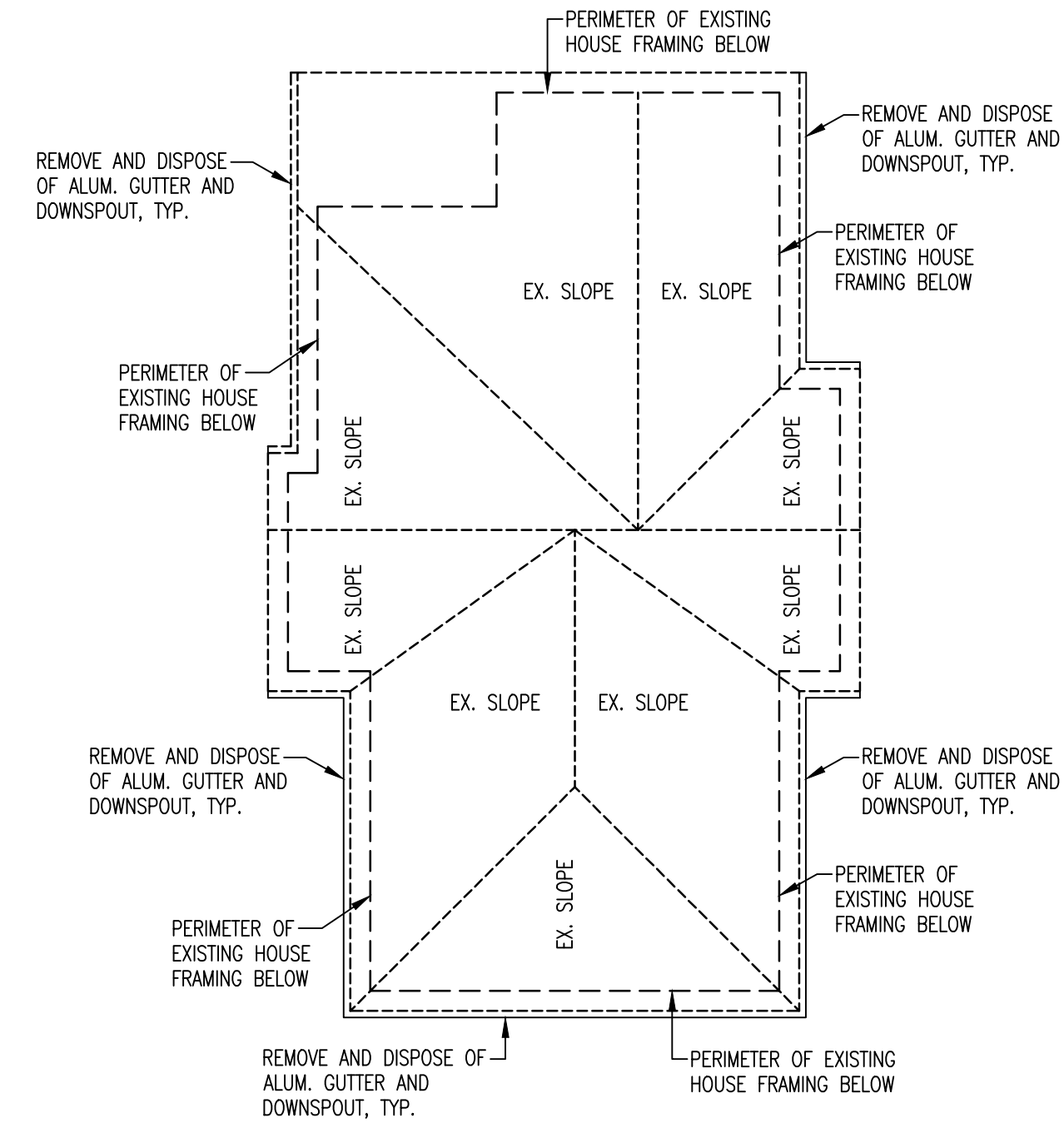
I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLY WITH THE CODES AND ORDINANCES OF THE CITY OF AURORA AND THE STATE OF ILLINOIS.

ENRIQUE CASTEL, LICENSED ARCHITECT - NO. 001-026545
 LICENSE EXPIRES 11-30-2022

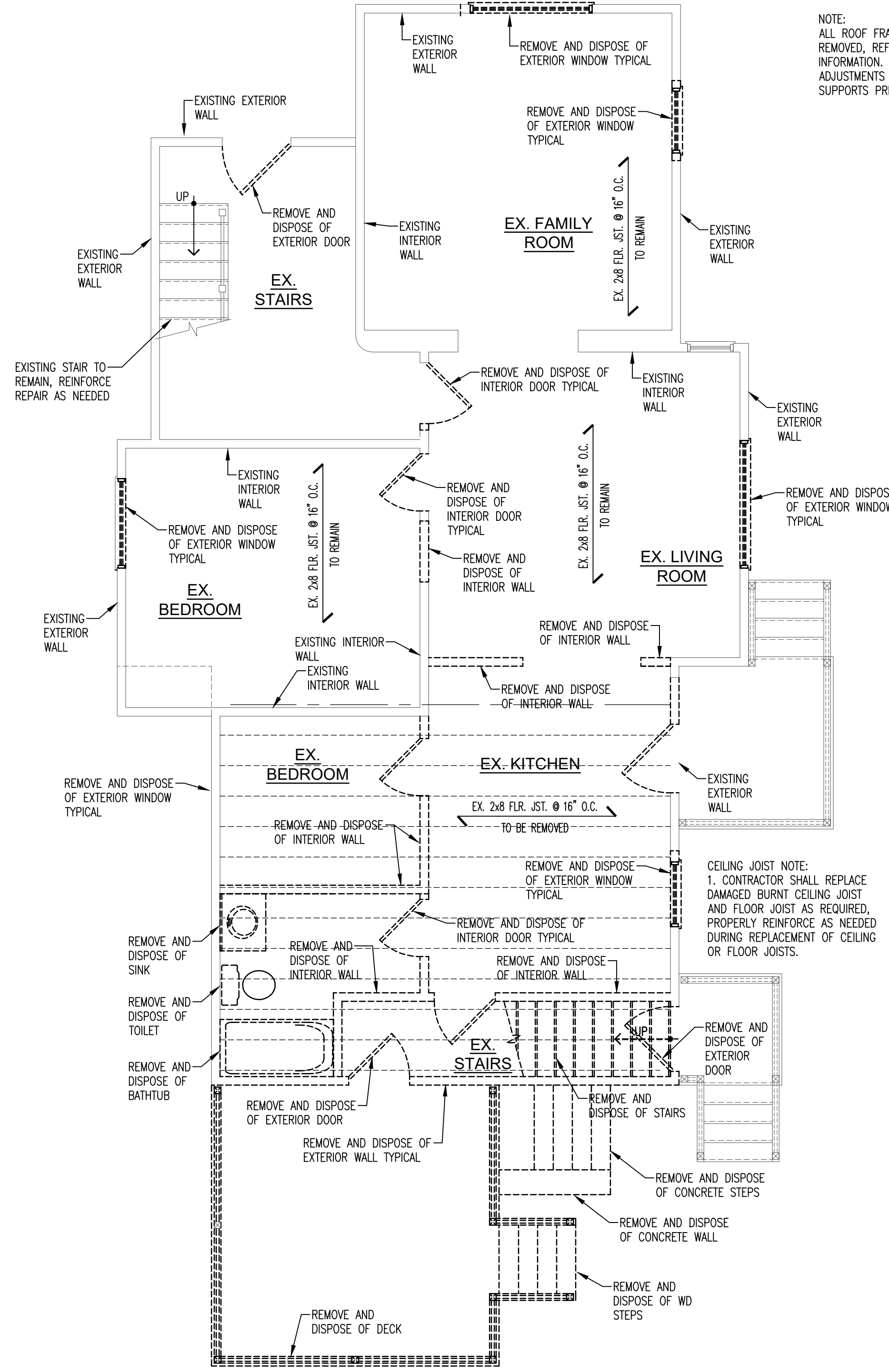
08.26.2022
 08.26.22
 03.02.2022



1 FOUNDATION PLAN DEMOLITION
SCALE: 1/4" = 1'-0"

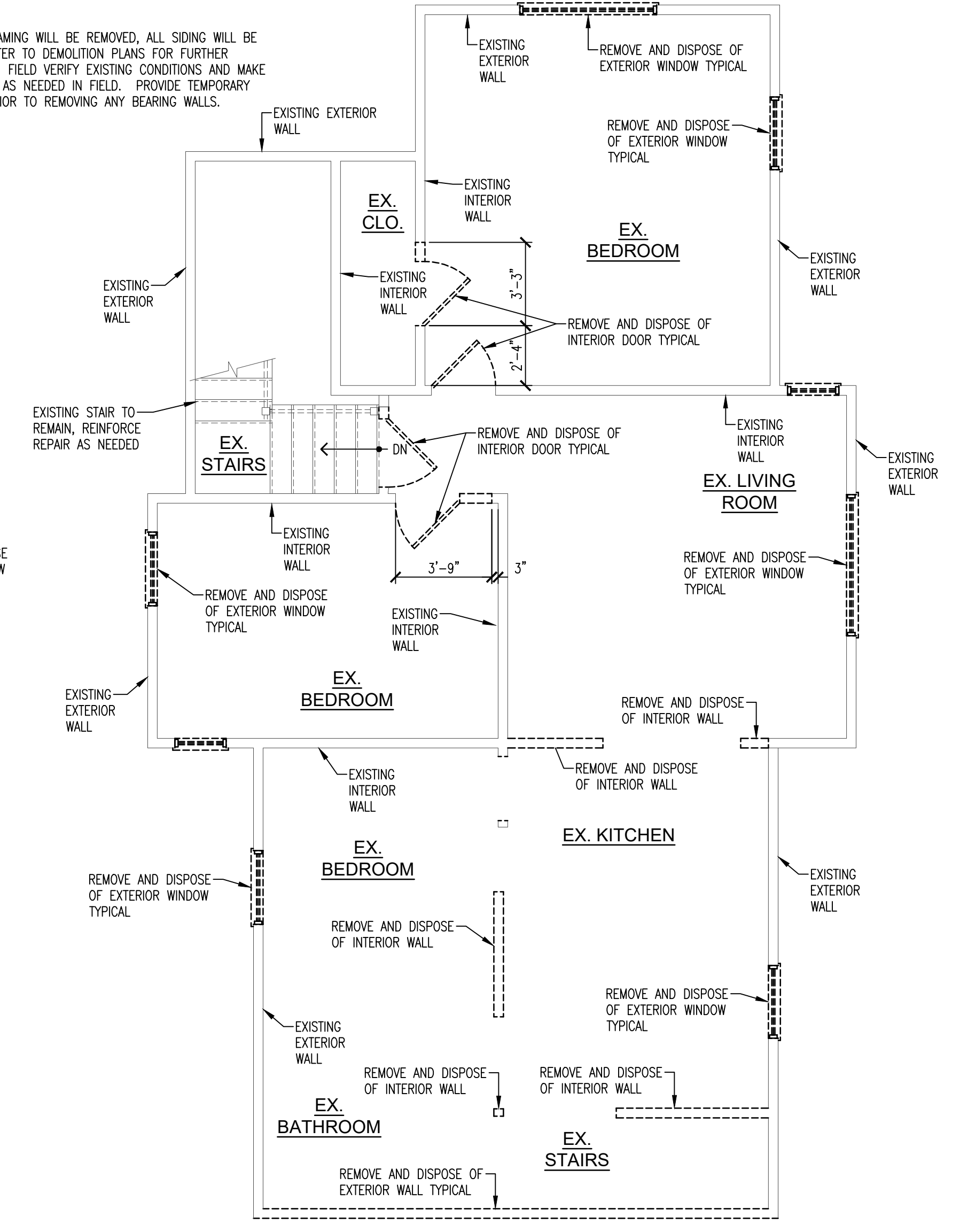


4 EXISTING ROOF PLAN
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR PLAN DEMOLITION
SCALE: 1/4" = 1'-0"

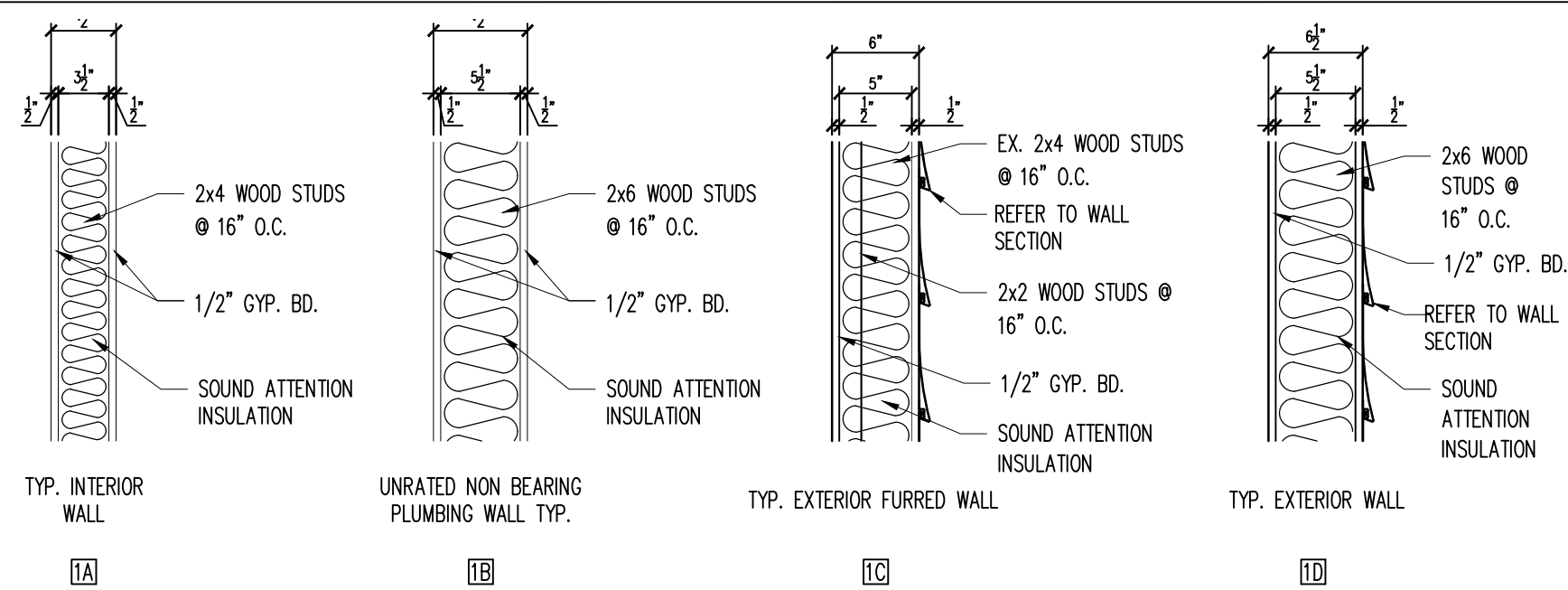
NOTE:
ALL ROOF FRAMING WILL BE REMOVED, ALL SIDING WILL BE REMOVED, REFER TO DEMOLITION PLANS FOR FURTHER INFORMATION. FIELD VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NEEDED IN FIELD. PROVIDE TEMPORARY SUPPORTS PRIOR TO REMOVING ANY BEARING WALLS.



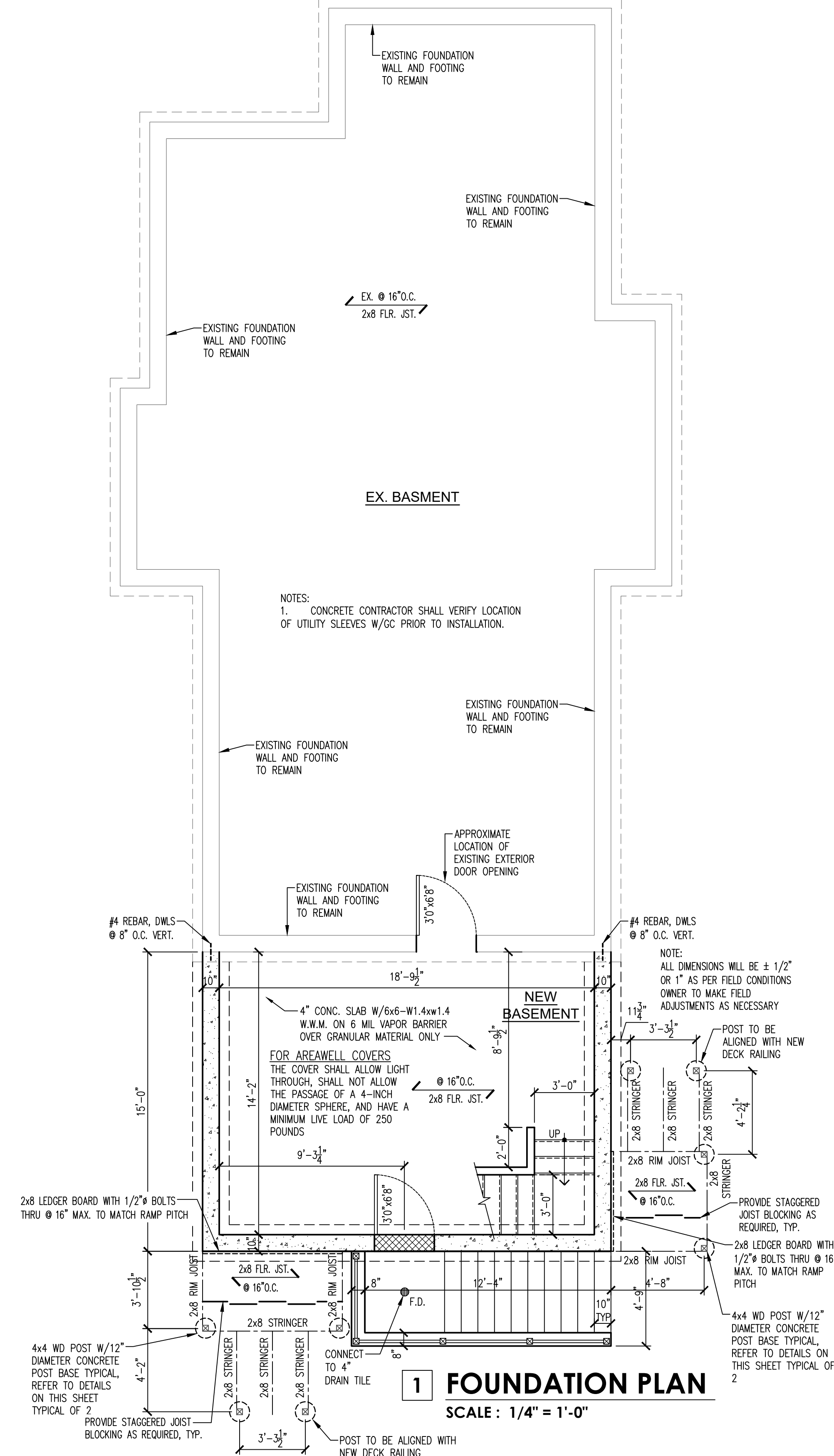
3 SECOND FLOOR PLAN DEMOLITION
SCALE: 1/4" = 1'-0"

WALL LEGEND	
SYMBOL	DESCRIPTION
—	EXISTING WALL TO REMAIN
- - - - -	EXISTING WALL TO BE REMOVED

No.	Date	Revisions / Submissions
03.02.2022	Date	
08.26.22	Date	
ISSUED FOR PERMIT		
ENC		
08.26.22		
2021-138		
AS NOTED		

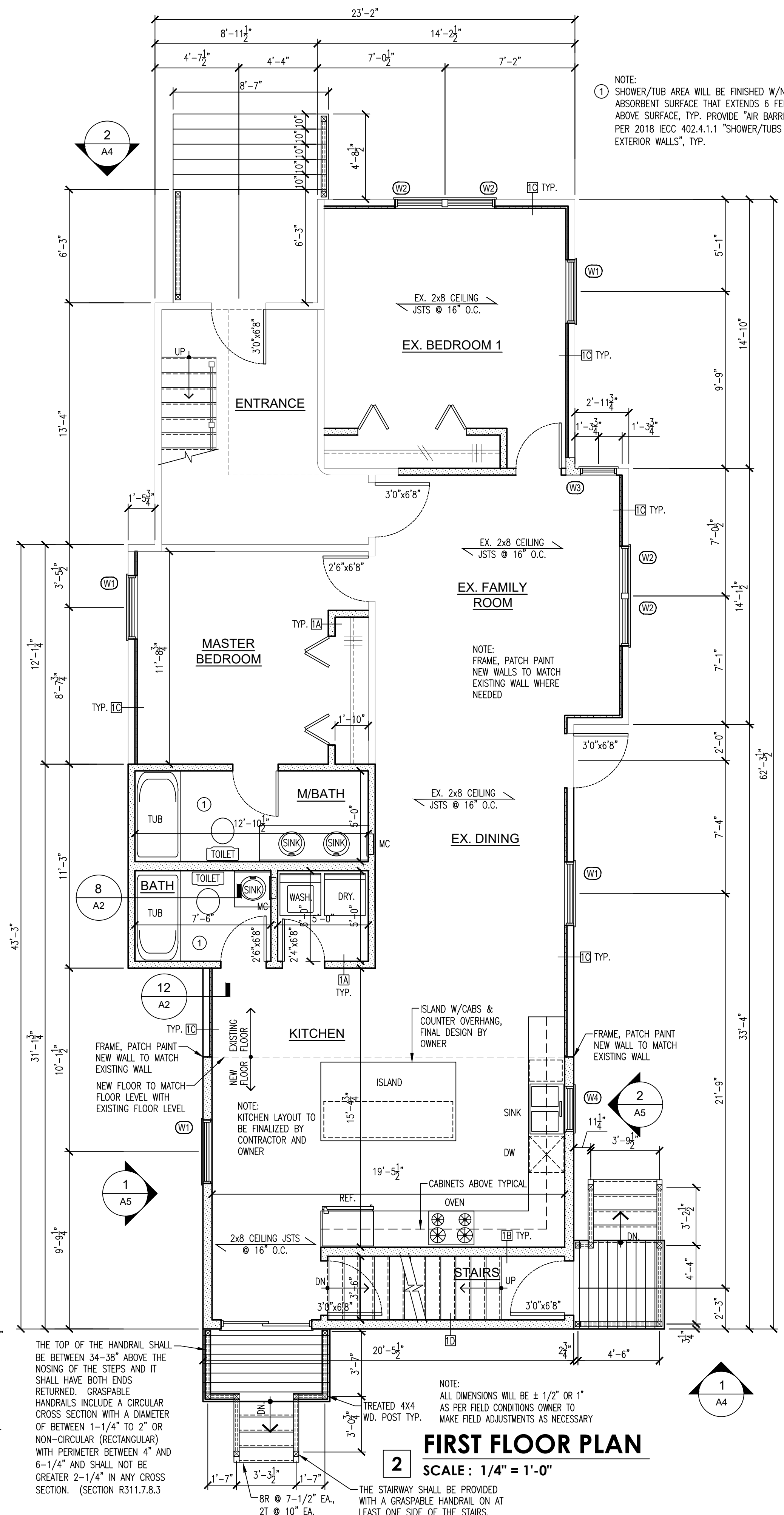


4 PARTITION TYPE DETAILS
SCALE: NONE



EXCEPTION NOTES:

- AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL NOT BE REQUIRED FOR ADDITIONS OR ALTERATIONS TO EXISTING BUILDING THAT ARE NOT ALREADY PROVIDED WITH AN AUTOMATIC RESIDENTIAL SPRINKLER SYSTEM.
- AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER FIRE SYSTEM SHALL NOT BE REQUIRED FOR NEW CONSTRUCTION WHEN THE UNDERSIDE OF ALL INTERIOR OF ALL INTERIOR STAIRS ARE PROTECTED WITH FIRE TAPED 5/8 TYPE GYPSUM BOARD OR EQUAL.THE



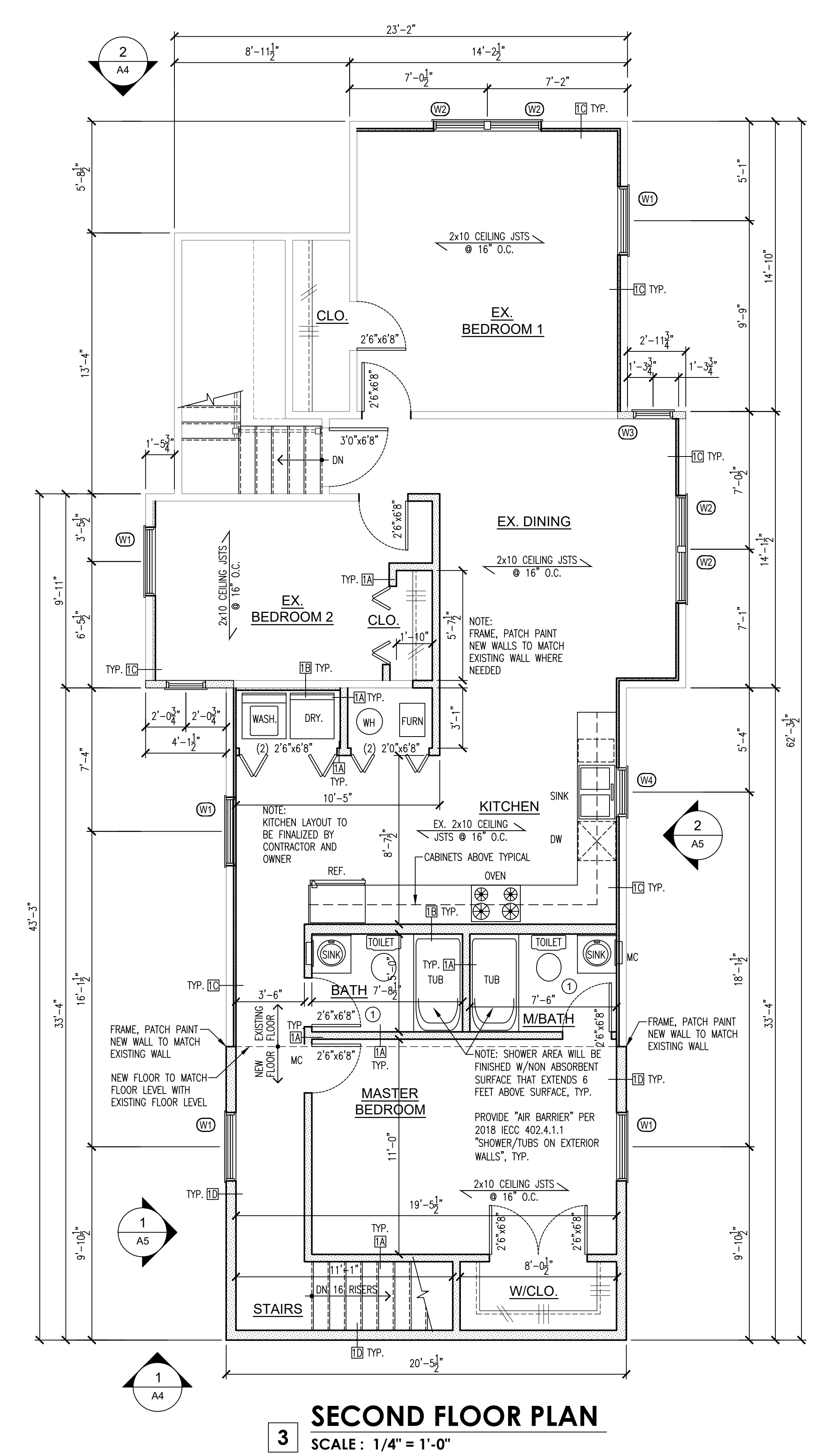
WOOD LINTEL SCHEDULE

SPAN	LINTEL SIZE
0 - 4 FEET	3- 2 x 6 'S
4 - 6 FEET	3- 2 x 8 'S
6 - 8 FEET	3- 2 x 10 'S
8 - 10 FEET	3- 2 x 12 'S

PROVIDE 1/2" RIGID INSUL. SPACERS, TYP.

GENERAL FLOOR PLAN NOTES :

- ALL DIMENSIONS ARE ACTUAL UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE TAKEN TO INSIDE FACE OF GYPSUM BOARD FOR INSIDE DIMENSION AND OUTSIDE FACE OF MASONRY FOR EXTERIOR DIMENSIONS. PROVIDE AND CONNECT AUTOMATIC GARAGE DOOR OPENER AND TRANSMITTER.
- PROVIDE DOOR STOPS @ ALL SWING DOORS.
- ALL UTILITIES EXCEPT WATER SHALL ENTER AT THE REAR OF THE BUILDING.
- VERIFY LOCATION OF CEILING LIGHTS OR CEILING FAN JUNCTION BOX ON DINING ROOM CEILING.
- ALL CLOSET, PANTRY, LAUNDRY AND LINEN SHELVES WILL BE PLASTIC COATED WIRE SHELVING UNITS.
- CABINET PLAN AND ELEVATIONS ARE FOR LAYOUT PURPOSES ONLY. CONTRACTOR SHALL MAKE MINOR ADJUSTMENT TO CABINETS AFTER FIELD MEASUREMENTS HAVE BEEN VERIFIED.
- PROVIDE PROPER BLOCKING, PRIOR TO GYPSUM BOARD INSTALLATION FOR CABINETS, TOWEL RODS AND GRAB BAR SUPPORTS.
- HORIZONTAL DIMENSIONS OF WINDOWS ON PLANS ARE WINDOW CENTERLINES UNLESS OTHERWISE NOTED.



TYP. ROOF CONSTRUCTION:
25 YR. 3 TAB SHINGLES ON 2 LAYERS OF #15 FELT PAPER OVER 5/8" EXT. GRADE PLWD ON 2x10'S @ 16" O.C. INSULATION Baffles EACH SPACE R-49 BATT. & BLOWN-IN INSULATION PROVIDE 1" MIN. AIR SPACE BETWEEN INSULATION AND EXTERIOR PLYWOOD

PROVIDE 36" MIN. ICE DAM AND SHIELD 2 LAYERS
SIMPSON STRONG TIE OR EQ. H2.5A CLIP @ EACH TRUSS, TYP.

TYP. EAVE CONSTRUCTION
ALUM. GUTTERS & DOWN SPOUT 1X8 CEDAR FASCIA, VINYL SOFFIT WITH SOFFIT VENTS

1x6 FRIEZE BOARD, TYP.

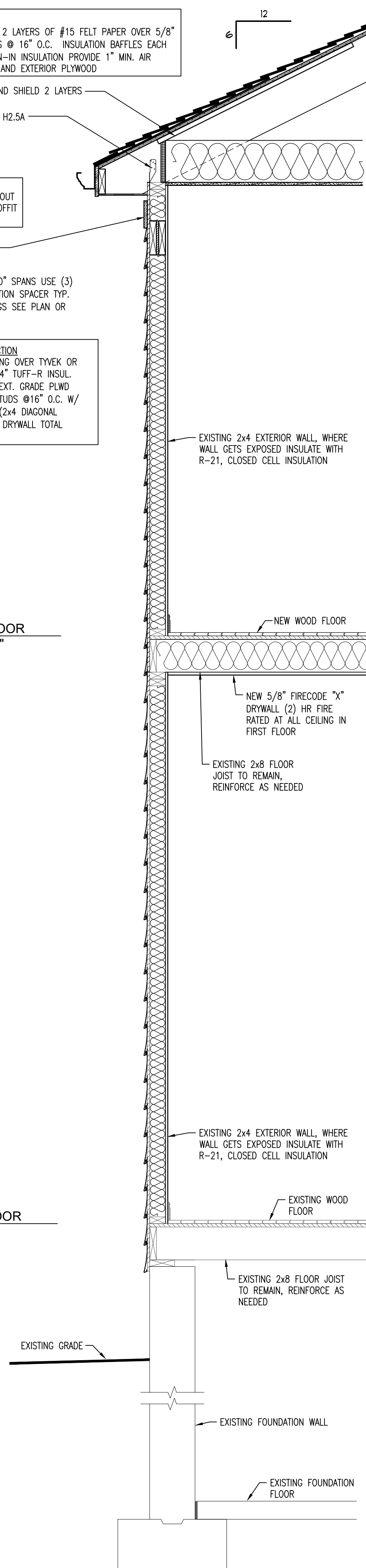
WINDOW HEADERS UP TO 6'-0" SPANS USE (3) 2X8'S W/ 1/2" RIGID INSULATION SPACER TYP. (U.N.O.) FOR LARGER OPENINGS SEE PLAN OR SCHED.

TYP. FRAME WALL CONSTRUCTION
OWNER SELECTED VINYL SIDING OVER TYVEK OR EQ. BUILDING WRAP ON 3/4" TUFF-R INSUL SHEATHING (R 5) ON 1/2" EXT. GRADE PLWD SHEATHING ON 2x4 WOOD STUDS @16" O.C. W/ R-21 CLOSED CELL INSUL. (2x4 DIAGONAL BRACING @ CORNERS) 5/8" DRYWALL TOTAL R-VALUE R-21

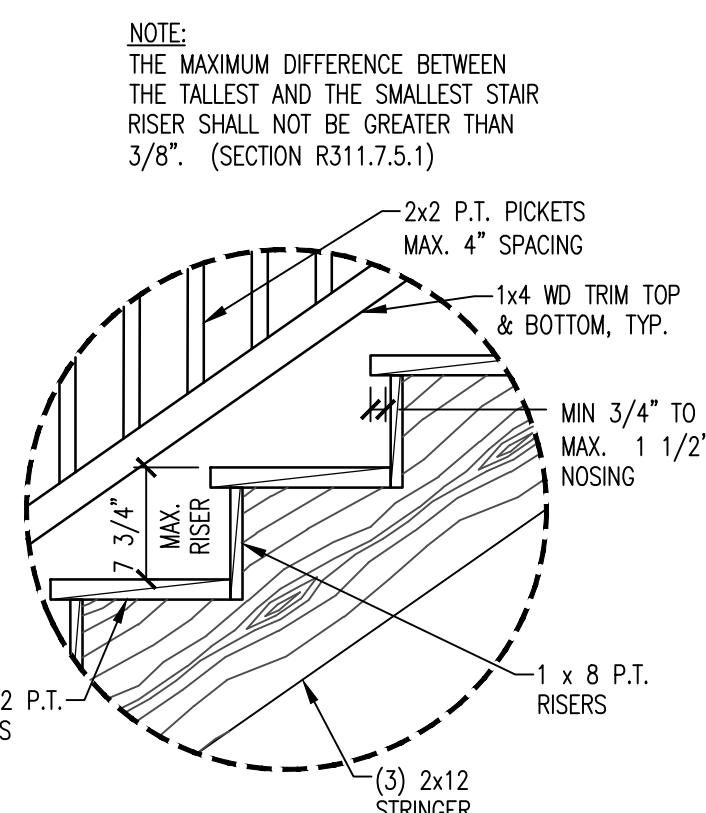
PROVIDE ADDITIONAL FRAMING AS REQUIRED

T / FINISH FLOOR
EL.: 10'-9 1/2"

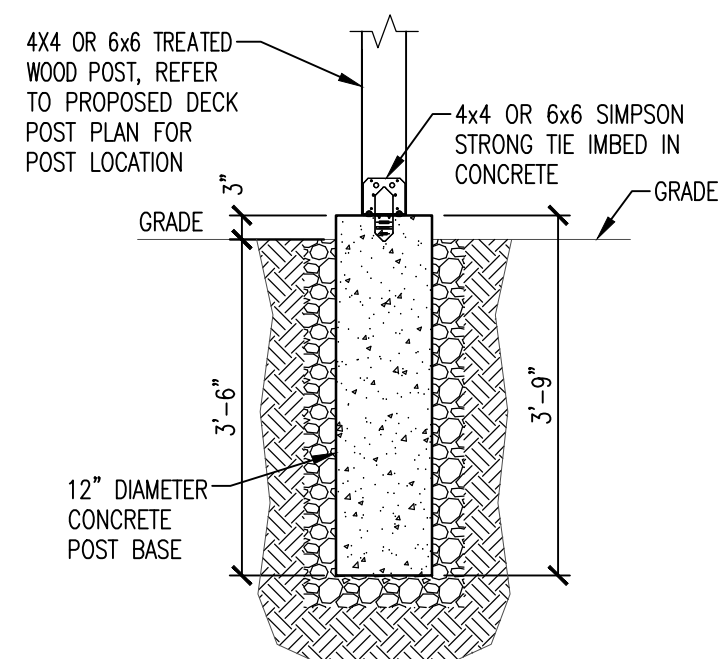
T / FINISH FLOOR
EL.: 0'-0"



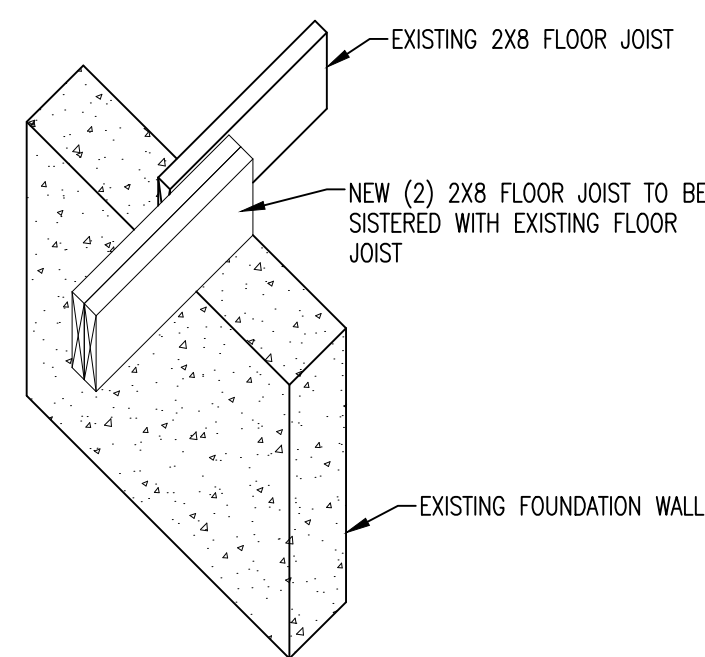
12 WALL SECTION
SCALE: 3/4" = 1'-0"



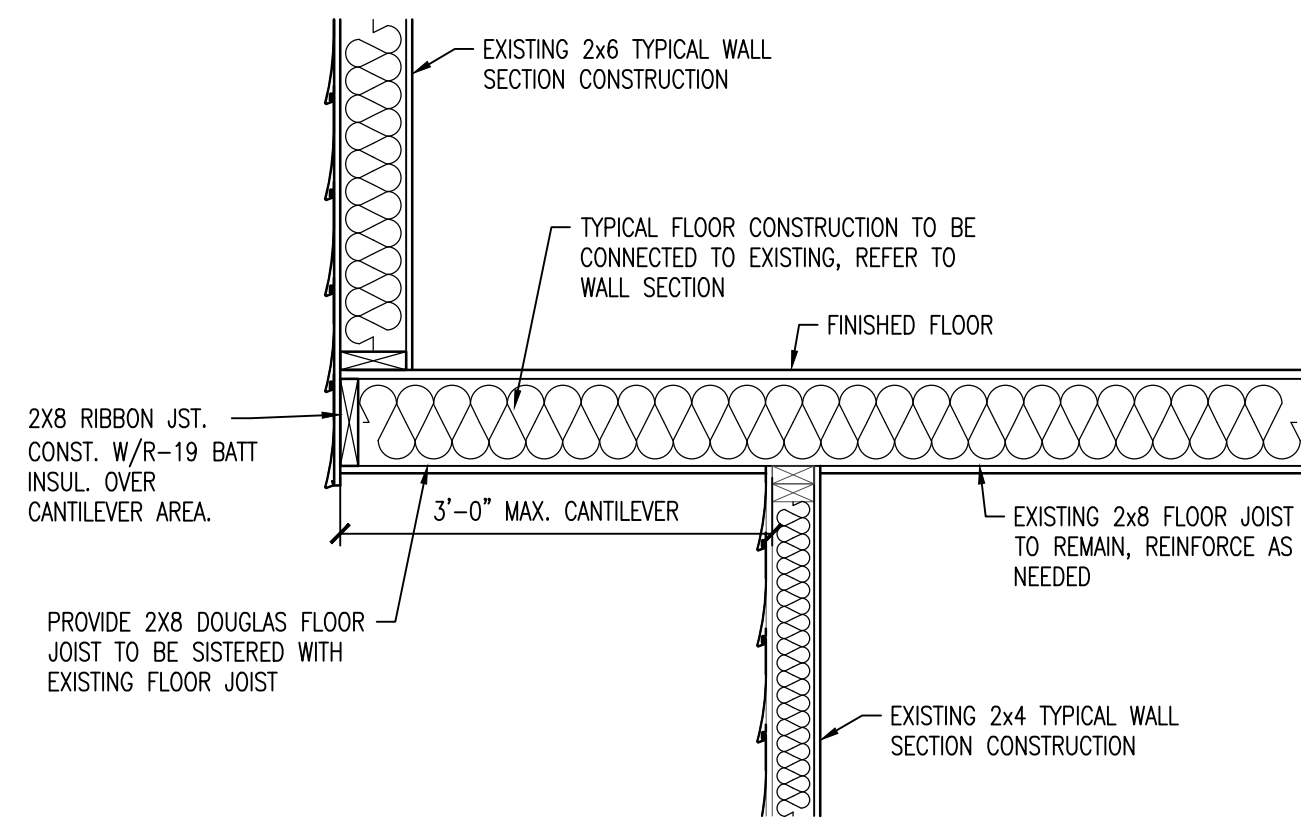
11 DECK STAIR DETAIL
N.T.S.



10 POST DETAIL
N.T.S.

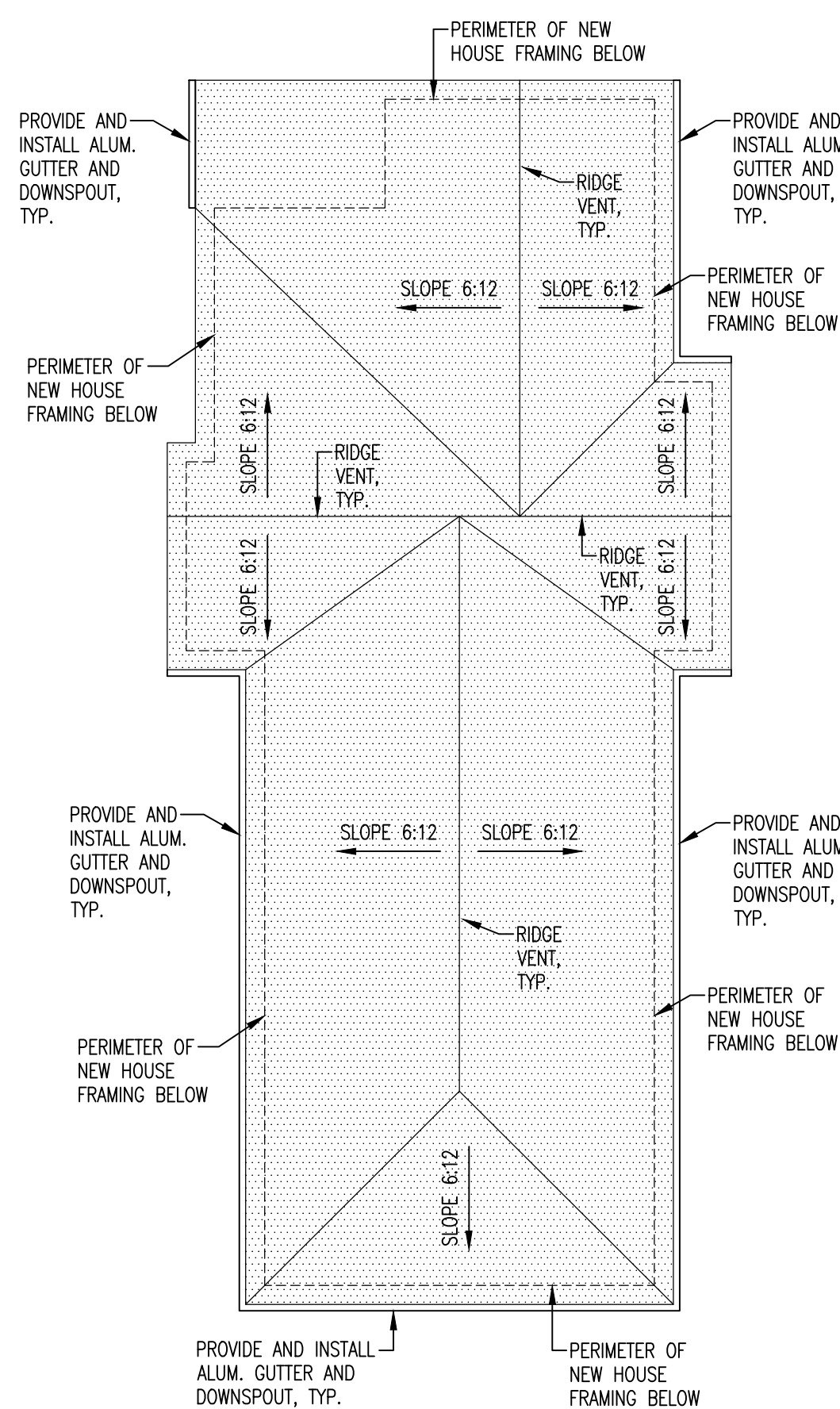


9 SISTER JOIST DETAIL
SCALE: 1/4" = 1'-0"

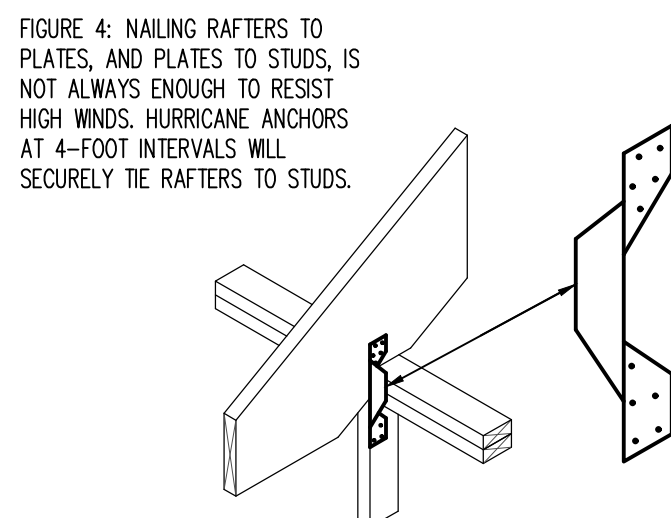


8 CANTILEVER DETAIL
SCALE: 3/4" = 1'-0"

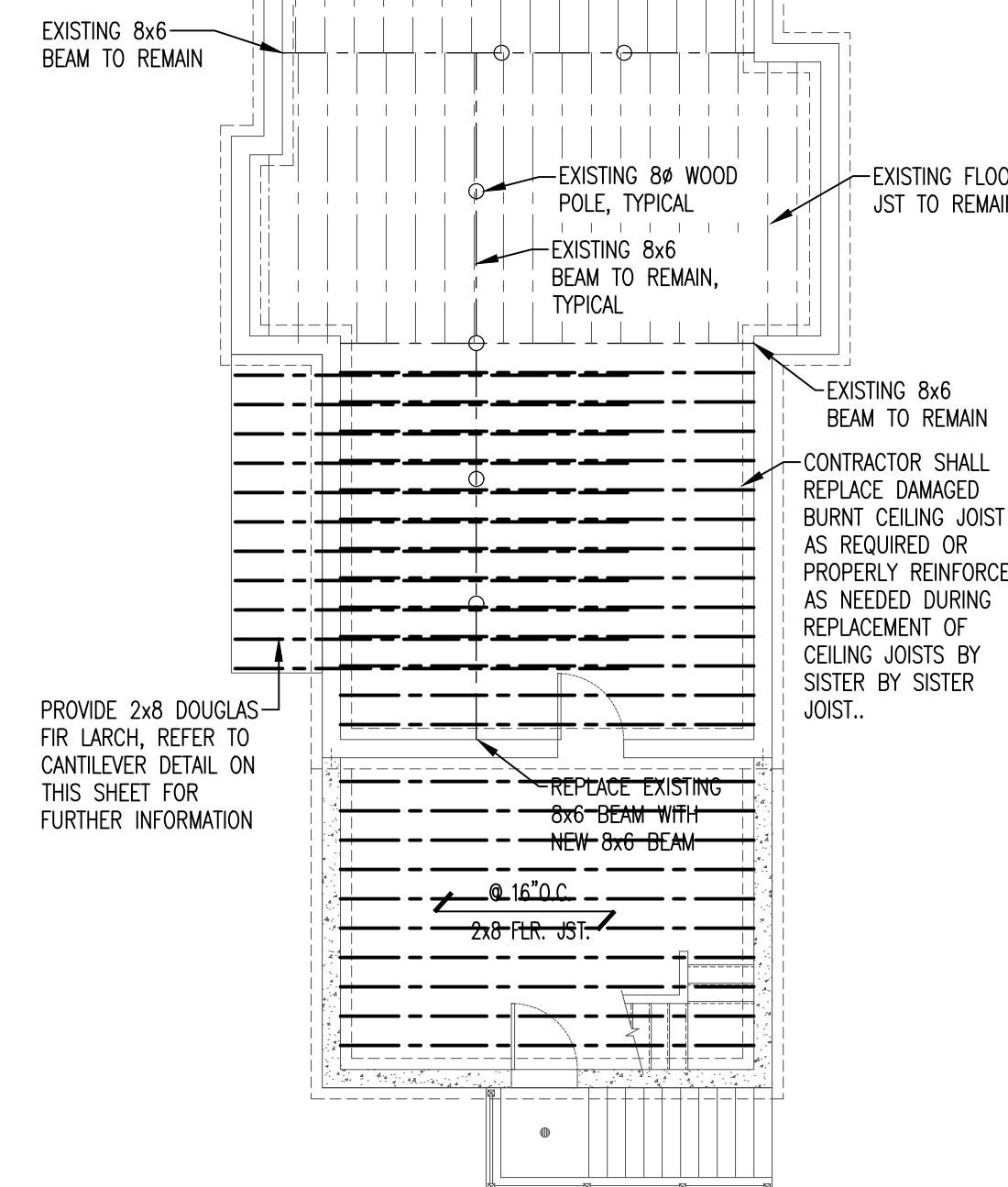
ROOF VENTILATION:
THE REQUIRED AREA SHALL BE 1/150 OR 1/300 IF A VAPOR BARRIER HAVING A TRANSMISSION RATE NOT EXCEEDING 1 PERM IS INSTALLED ON THE WARM SIDE OF THE CEILING. WHERE RIDGE OR GABLE VENTS ARE UTILIZED, RIDGE OR GABLE VENTS SHALL PROVIDE 1/2 OF THE VENTILATION OPENINGS, WITH THE BALANCE OF THE VENTILATION PROVIDED BY THE EAVE OR CORNICE VENTS. THE OPENING SHALL BE COVERED WITH CORROSION-RESISTANT MESH OR OTHER APPROVED MATERIAL WITH OPENING NOT MORE THAN 1/4"



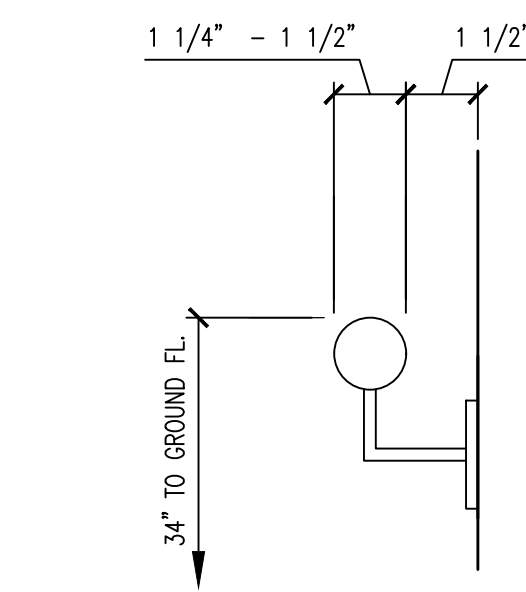
1 ROOF PLAN
SCALE: 1/8" = 1'-0"



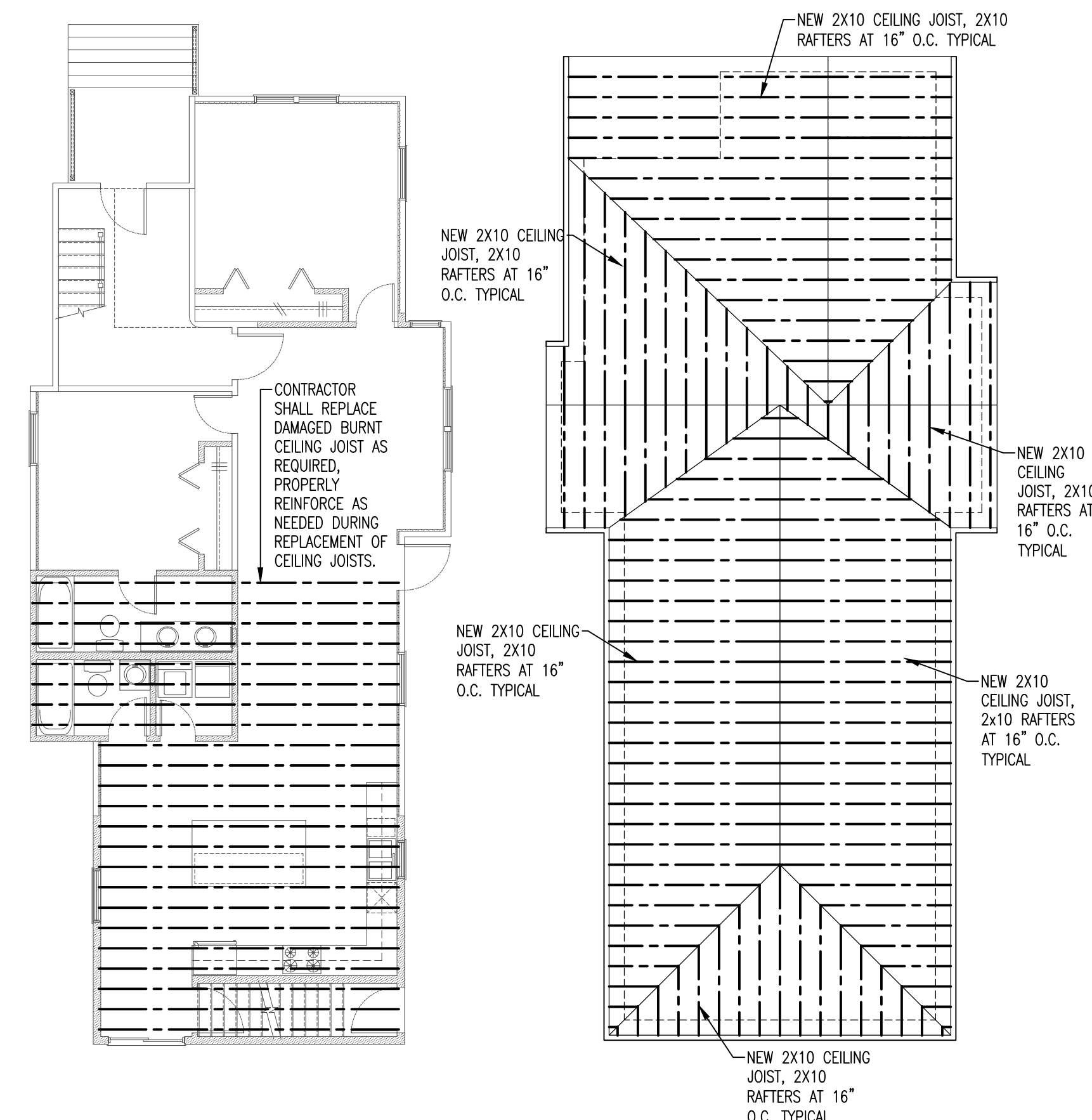
7 HURRICANE ANCHOR
NONE



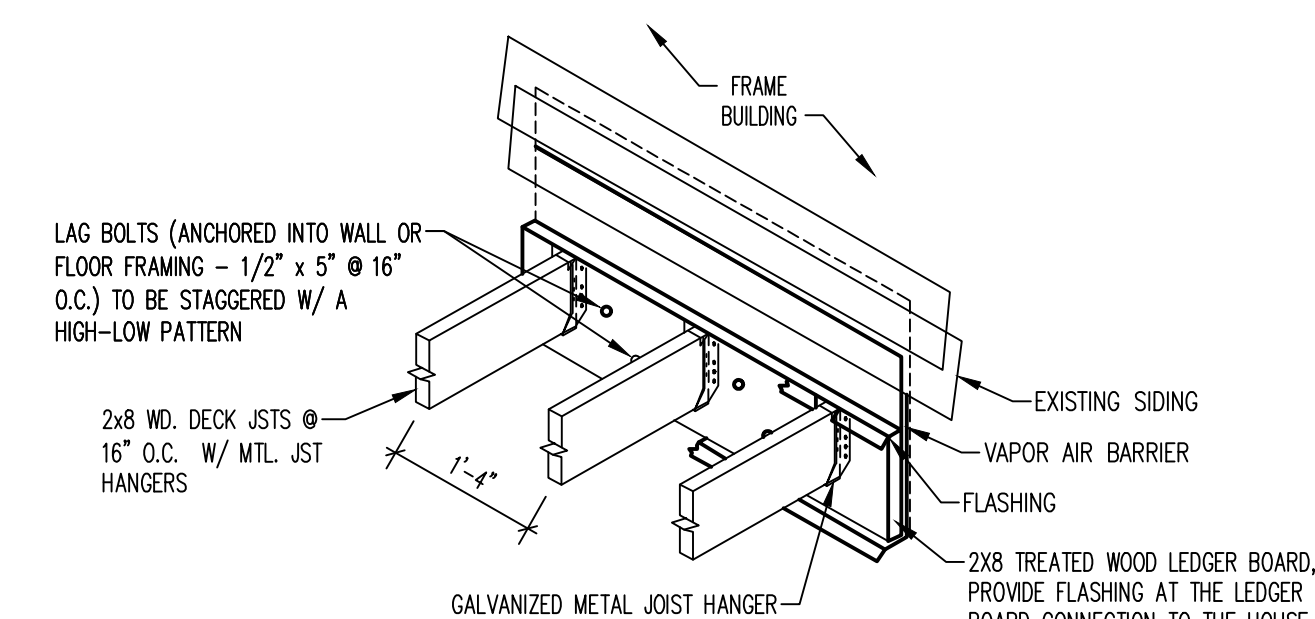
2 FOUNDATION FRAMING PLAN
SCALE: 1/8" = 1'-0"



6 HANDRAIL DETAIL
SCALE: 1/4" = 1'-0"



3 FIRST FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

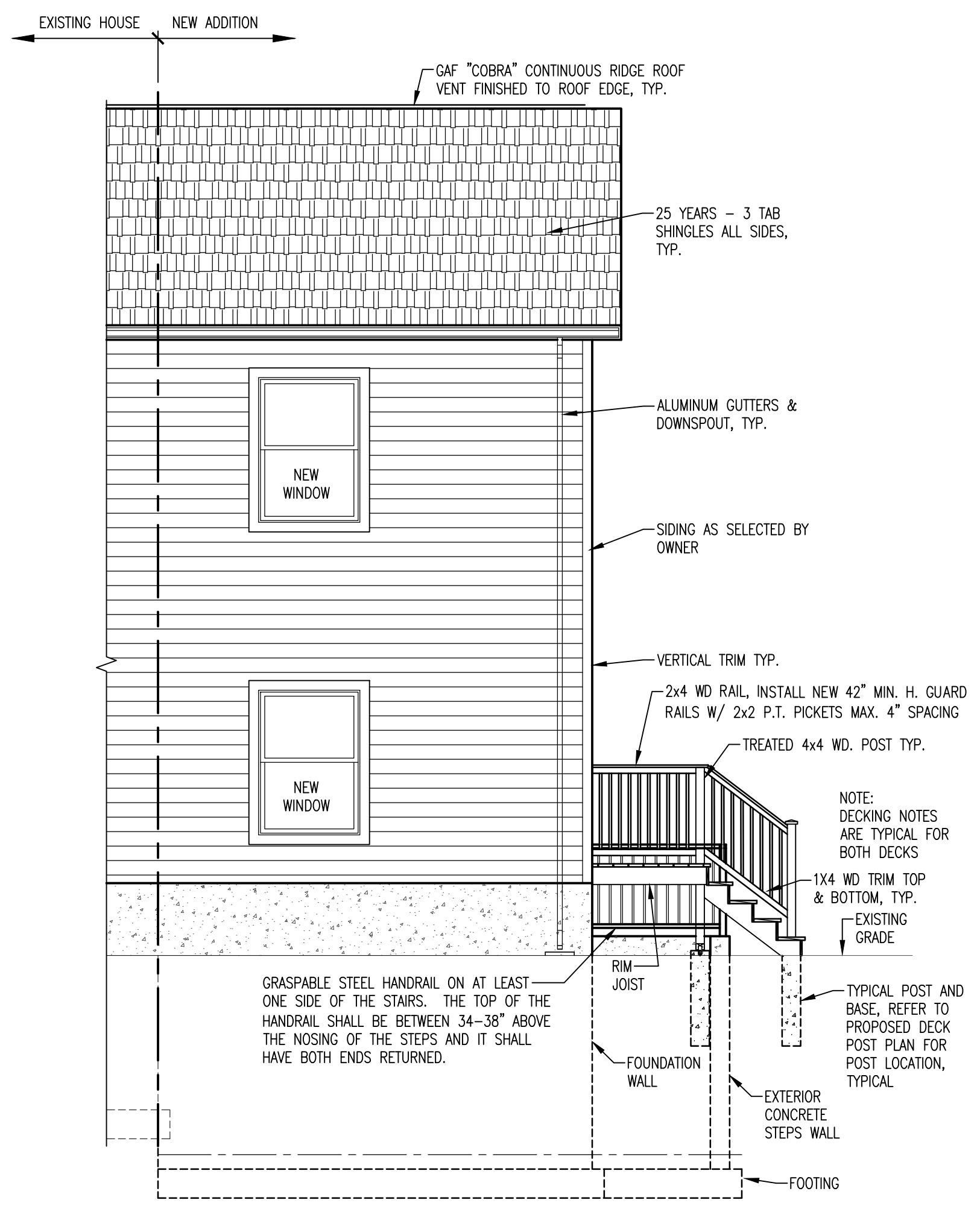


5 LEDGER BOARD DETAIL
N.T.S.

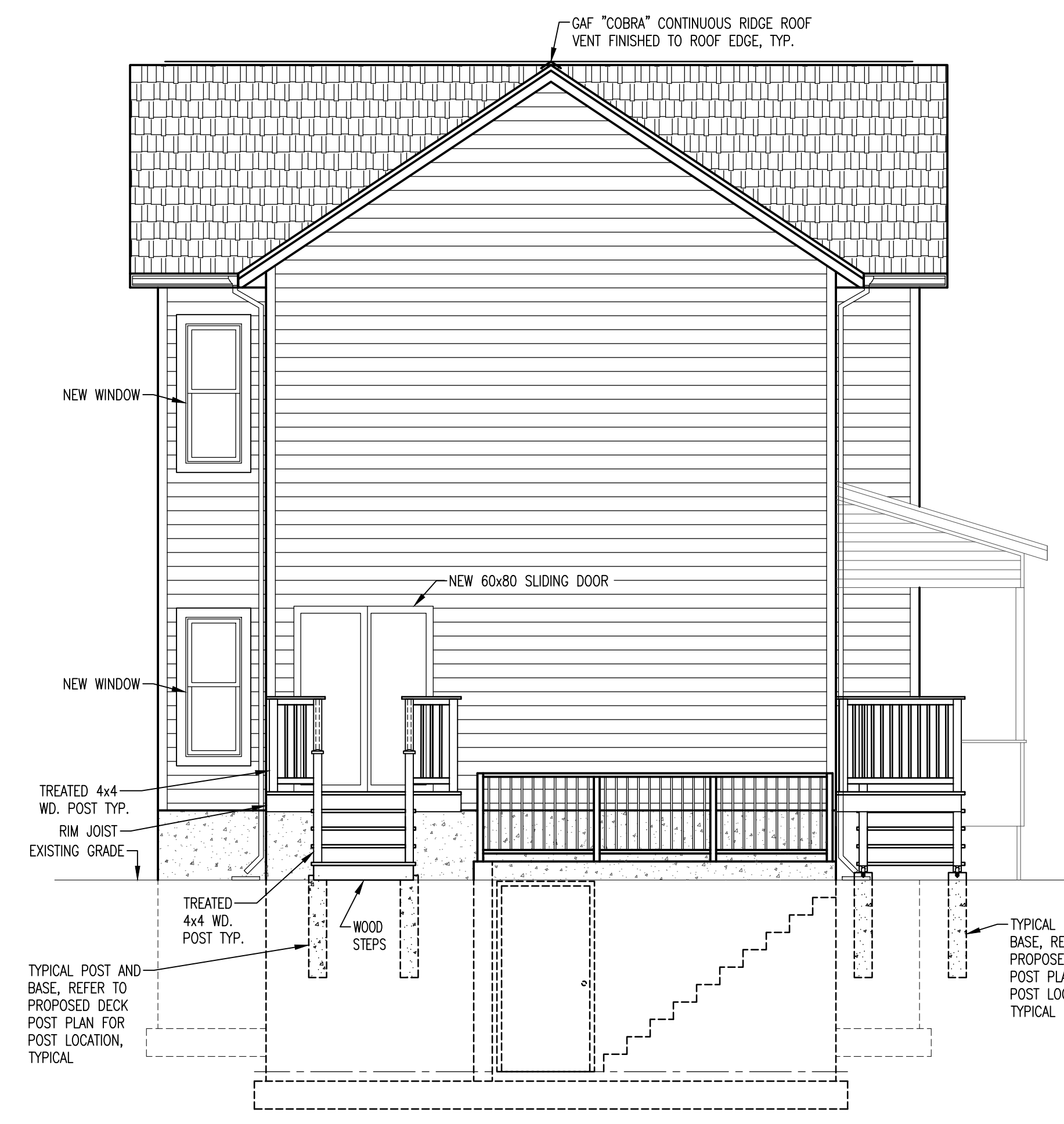
ROOM	AREA	GL. REQ'D.	GL. ACT'L.	VENT. REQ'D.	VENT. ACT'L.	REMARKS
1ST FL BEDROOM 1	183.3	14.7	33.13	7.35	16.56	
1ST FL KITCHEN	396.5	31.68	34.95	15.84	17.47	
1ST FL DINING	228.6	18.3	19	9.15	9.5	
MASTER BEDROOM	127.1	10.2	21.43	5.1	10.71	
2ND FL DINING	160	12.8	19	6.4	9.5	
2ND FL KITCHEN	204	16.32	20.83	8.16	8.16	
2ND FL BEDROOM 1	191.1	15.3	33.13	7.65	16.56	
2ND FL BEDROOM 2	116.6	9.3	21.43	4.65	10.71	
2ND FL MASTER BEDROOM	171.4	13.7	14.13	6.85	7.06	

UNIT #	WINDOW SIZE	TYPE	MANUF.	GLASS	VENT	REMARKS
(V1)	3'-6"x5'-0"	DOUBLE HUNG	ANDERSEN (WDH) WOODRIGHT OR EQ.	14.13	6.8	1,2,3
(V2)	2'-6"x5'-0"	DOUBLE HUNG	ANDERSEN (WDH) WOODRIGHT OR EQ.	9.5	4.75	1,2
(V3)	2'-0"x5'-0"	DOUBLE HUNG	ANDERSEN (WDH) WOODRIGHT OR EQ.	7.3	3.65	1,2
(V4)	3'-0"x3'-0"	DOUBLE HUNG	ANDERSEN (WDH) WOODRIGHT OR EQ.	6.7	3.35	1,2

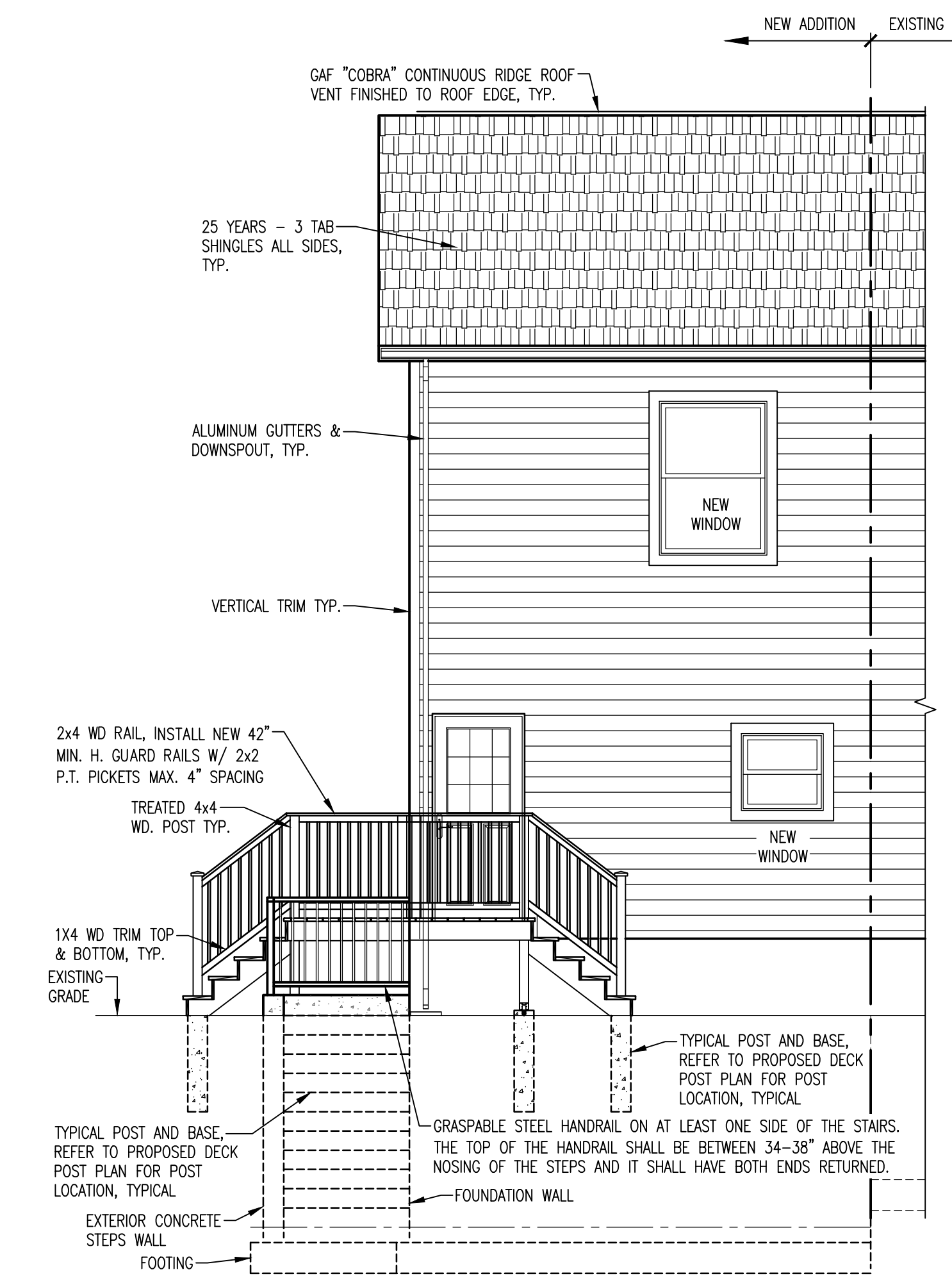
NOTES:
1. VERIFY ALL MANUFACTURER'S #'S PRIOR TO ORDERING
2. VERIFY INTERIOR FINISH WITH OWNER (PAINTED OR STAINED)
3. FINAL WINDOW SIZES TO BE SELECTED AS PER FINAL EXISTING FIELD CONDITIONS. WINDOWS WILL BE APPROVED AND SELECTED BY OWNER
4. ALL WINDOWS TO HAVE U-FACTOR OF .32 MAXIMUM
5. SEAL AND CAULK ALL INTERIOR/ EXTERIOR SIDES OF WINDOW PERIMETER
6. THIS WINDOW IS DESIGNATED TO BE AN "EMERGENCY ESCAPE AND RESCUE OPENING" WITH MIN. SIZE 5.7 SQ. FT. MIN. CLEAR OPENING HEIGHT DIMENSION 24" AND MIN. CLEAR OPENING WIDTH DIMENSION 20" MAX. SILL HEIGHT FROM FLOOR - 44". WINDOW OPENING TO BE TOOLLESS IN DIRECTION OF EGRES. NO PLACEMENT OF BARS, GRILLES, GRATES, ETC. AT THIS WINDOW OPENING. NO REMOVABLE SASH TYPE WINDOW WILL BE ALLOWED.



1 NORTH (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"

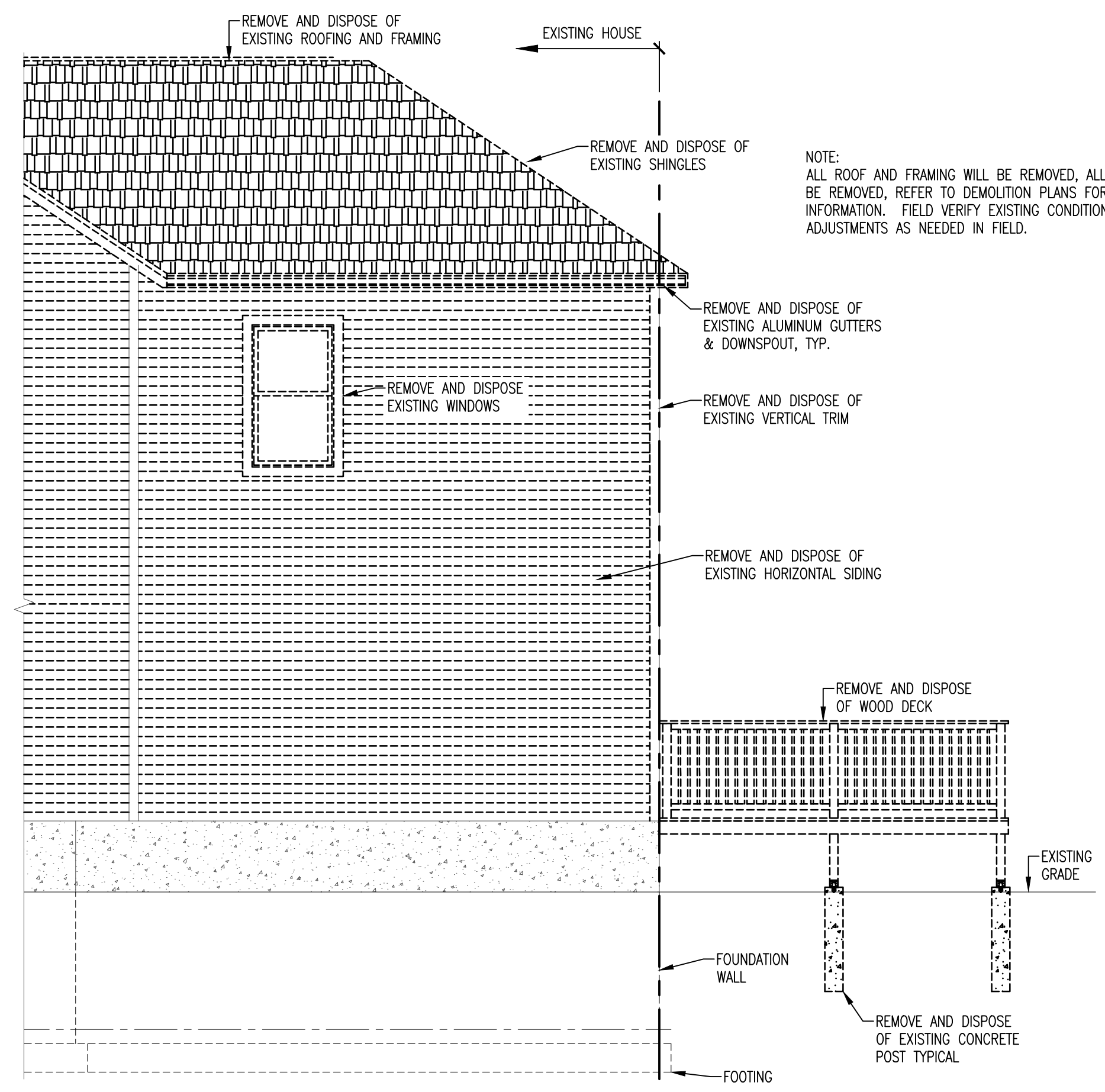


2 WEST (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"

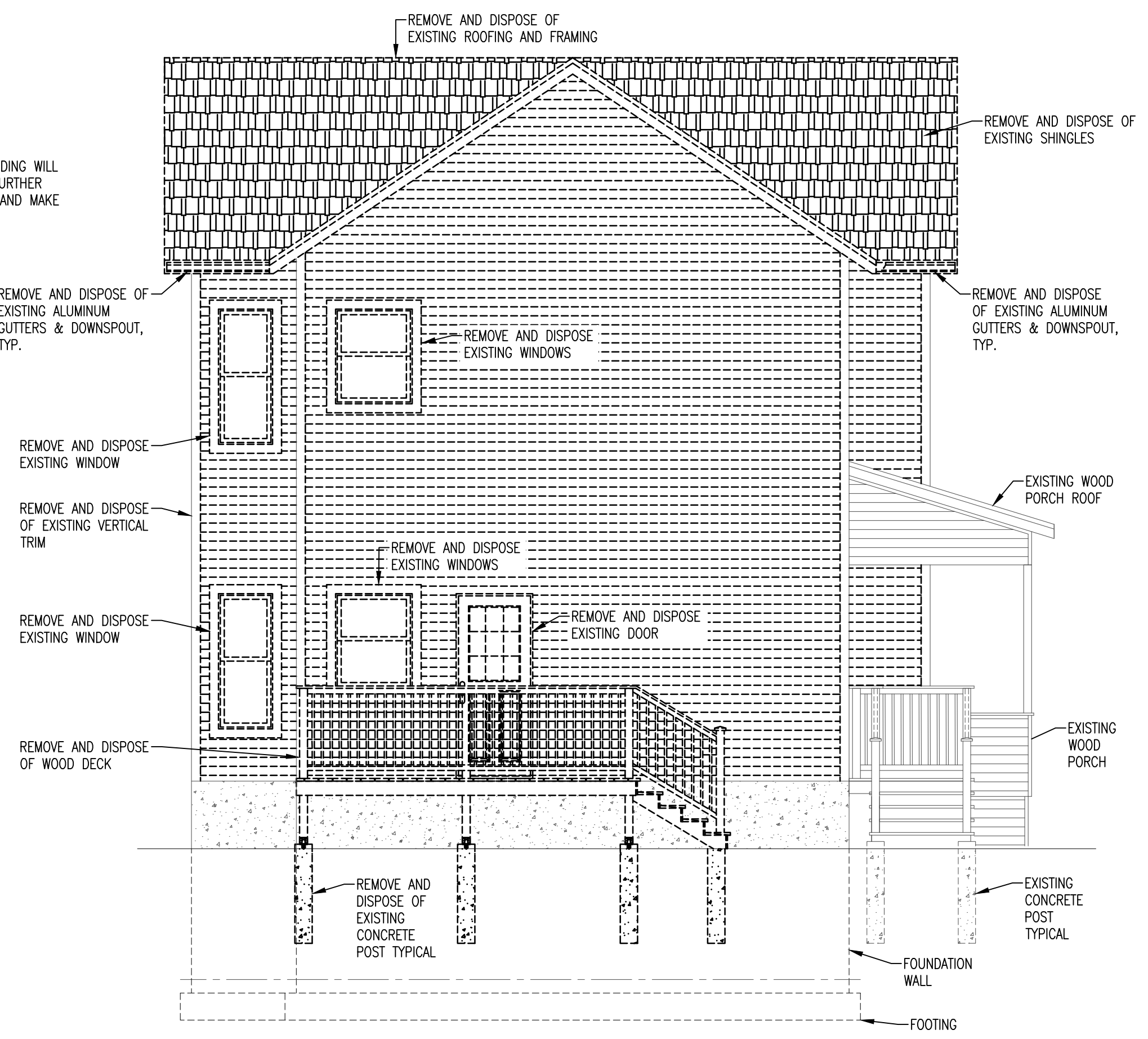


3 SOUTH (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"

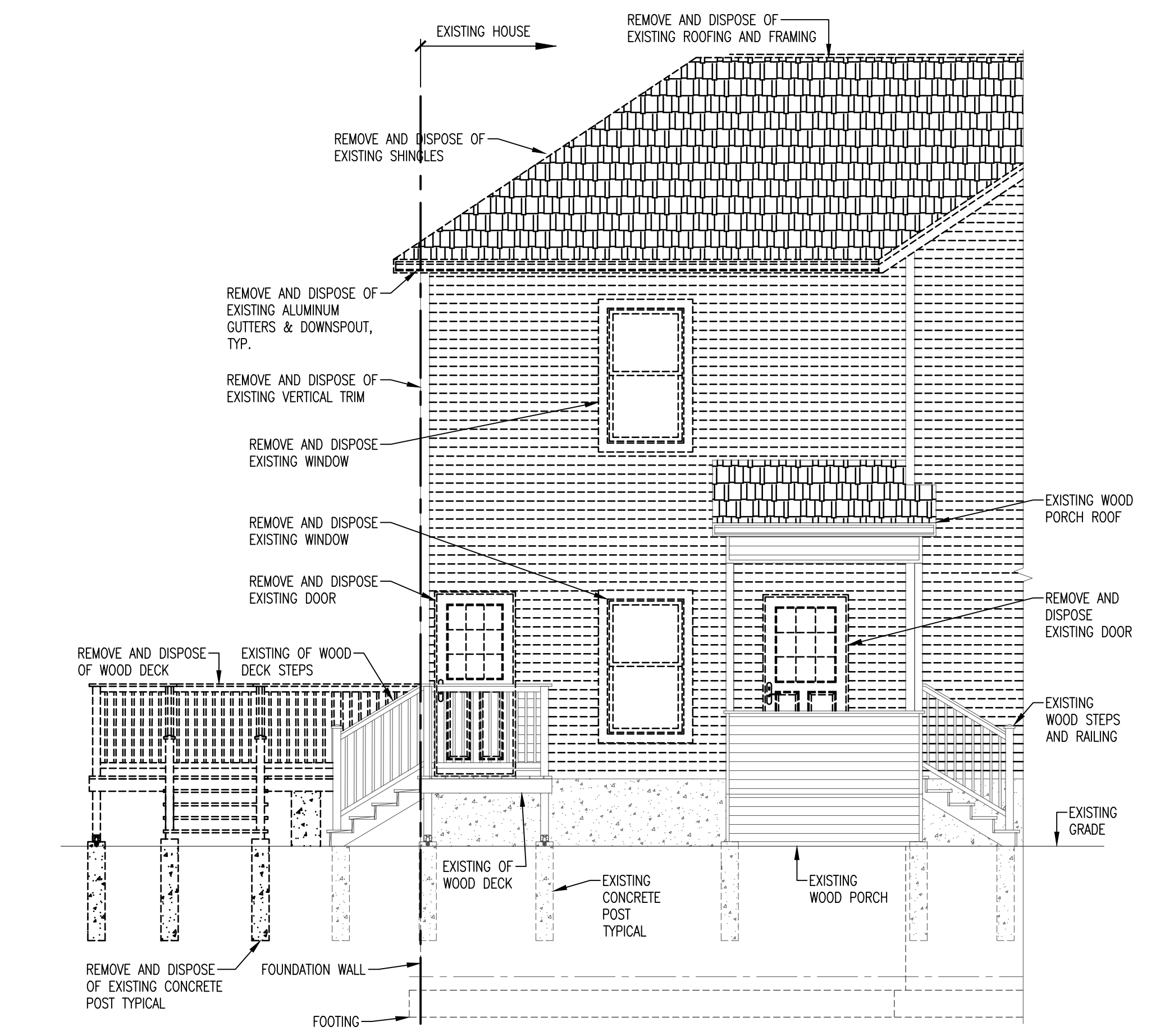
- GENERAL ELEVATION NOTES:**
1. FINISHED GRADE SHALL BE 6" BELOW TOP OF FOUNDATION WALL.
 2. GRADE SHALL SLOPE AWAY FROM CONCRETE WALL AT THE PORCH.
 3. FOR ROOF PENETRATIONS, REFER TO ELECTRICAL, PLUMBING AND HVAC PLAN.
 4. CORNER BRACING SHALL BE 1x4 DIAGONAL BRACING LET INTO 2x6 STUDS AT ALL OUTSIDE CORNERS & INTERIOR PARTITIONS OR 1/2" x 8'-0" FLUD SHEATHING.
 5. PROVIDE MINIMUM PITCH FOR ALL GUTTERS.



4 NORTH (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"

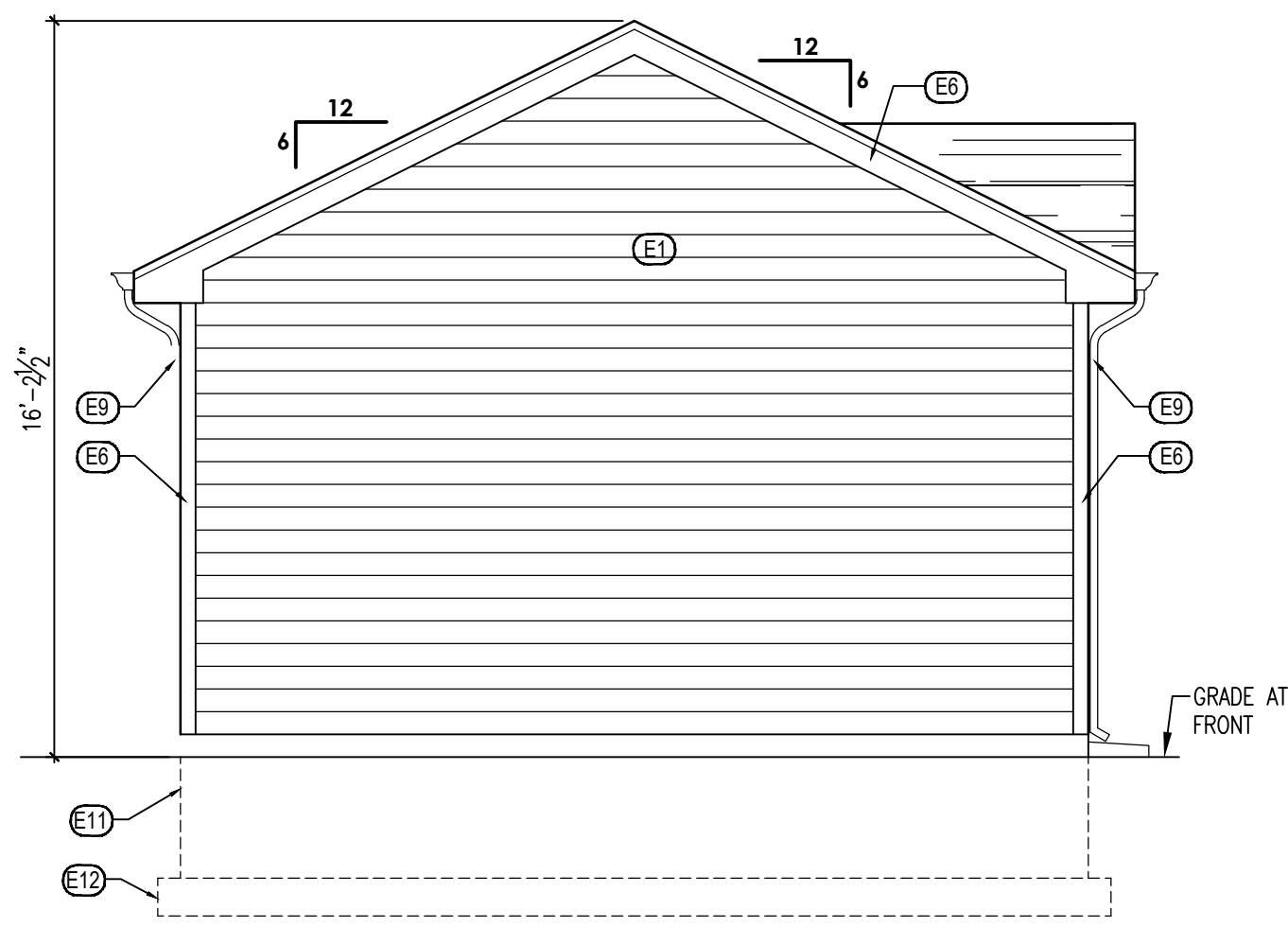


5 WEST (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"

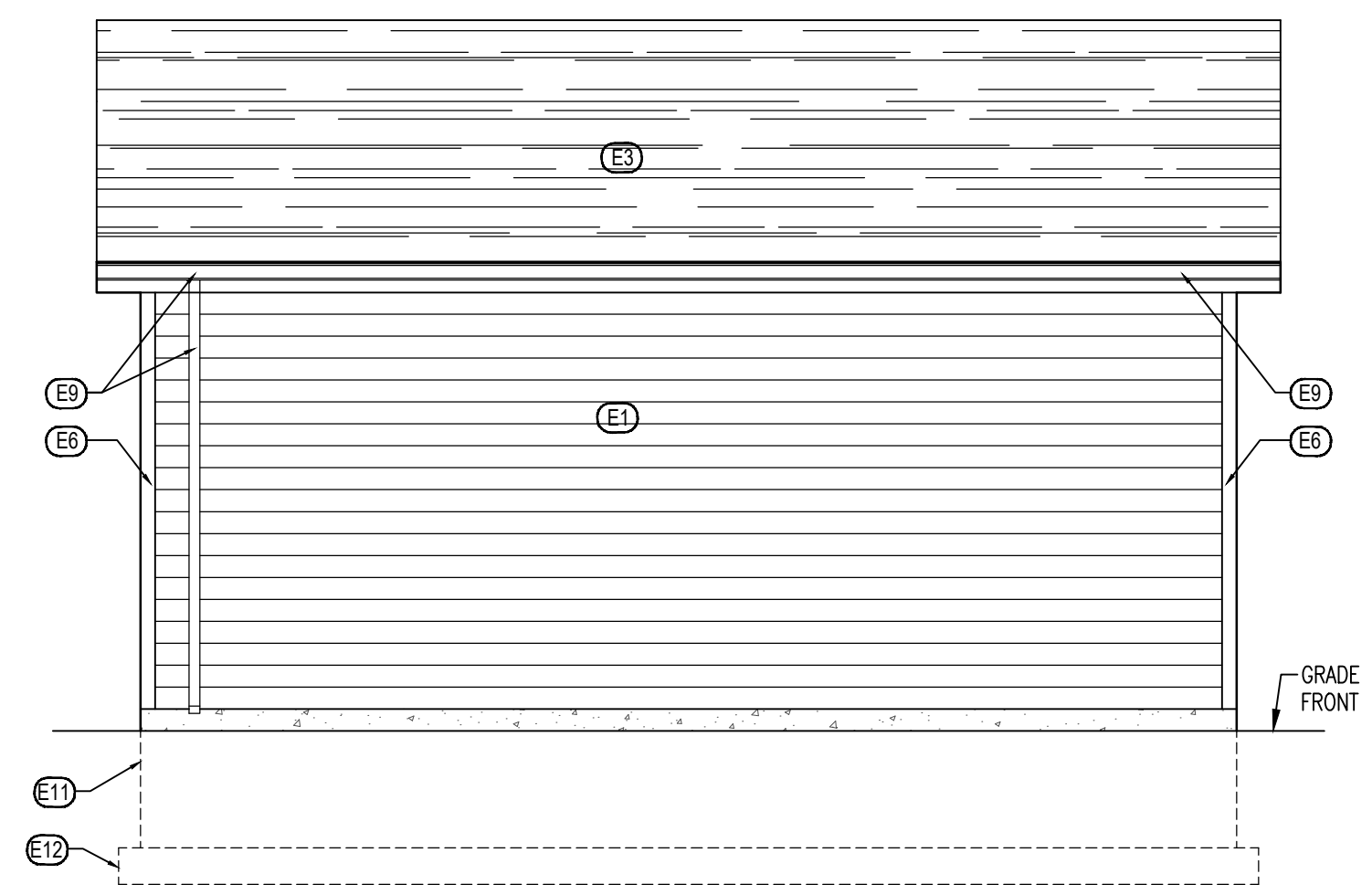


6 SOUTH (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"

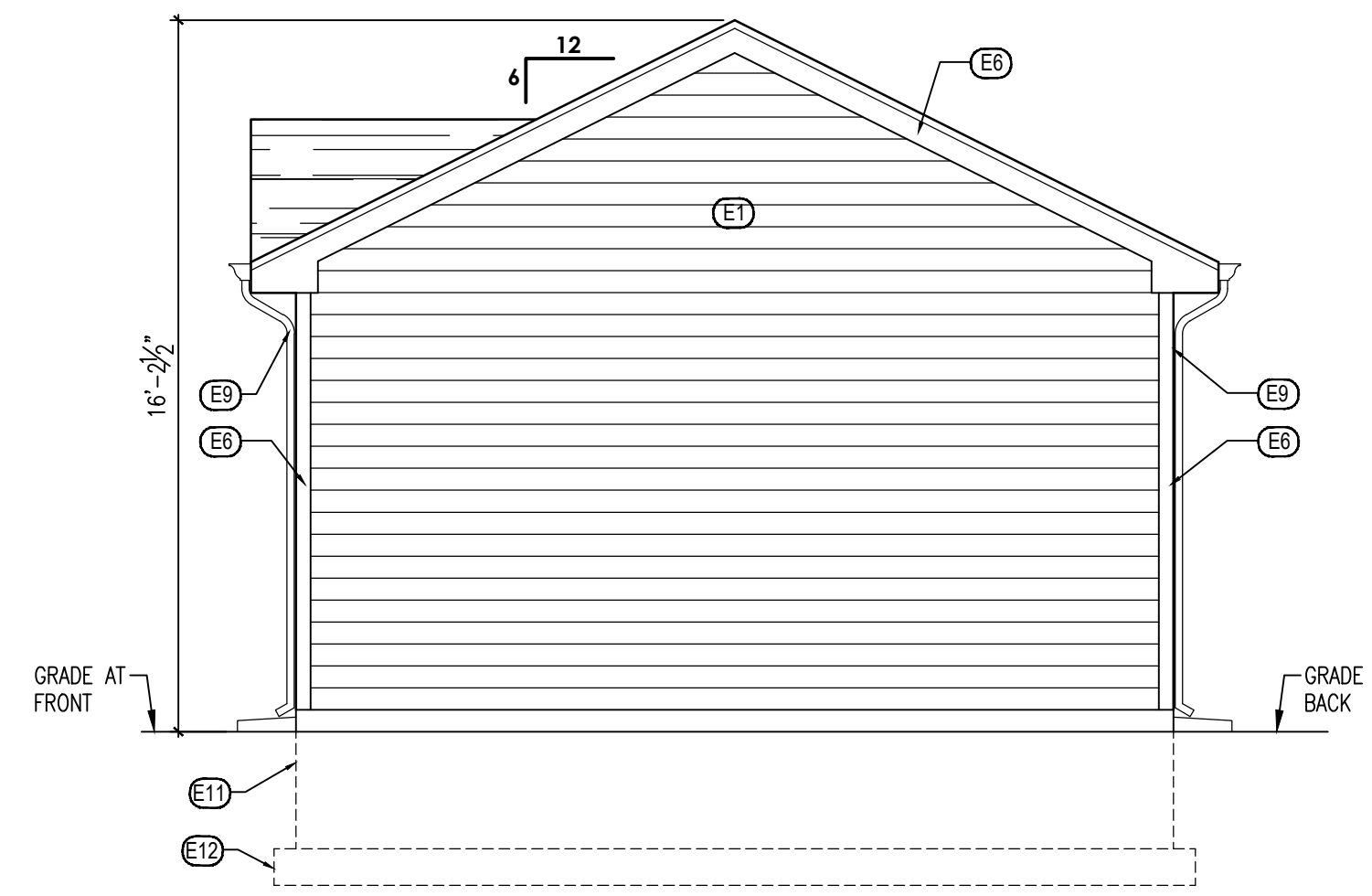
03.02.2022	Date
	Revisions / Submissions
08.26.22	Date
	Revisions / Submissions
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08.26.22	DATE
2021-138	PROJECT NO.
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	DRAWING NO.
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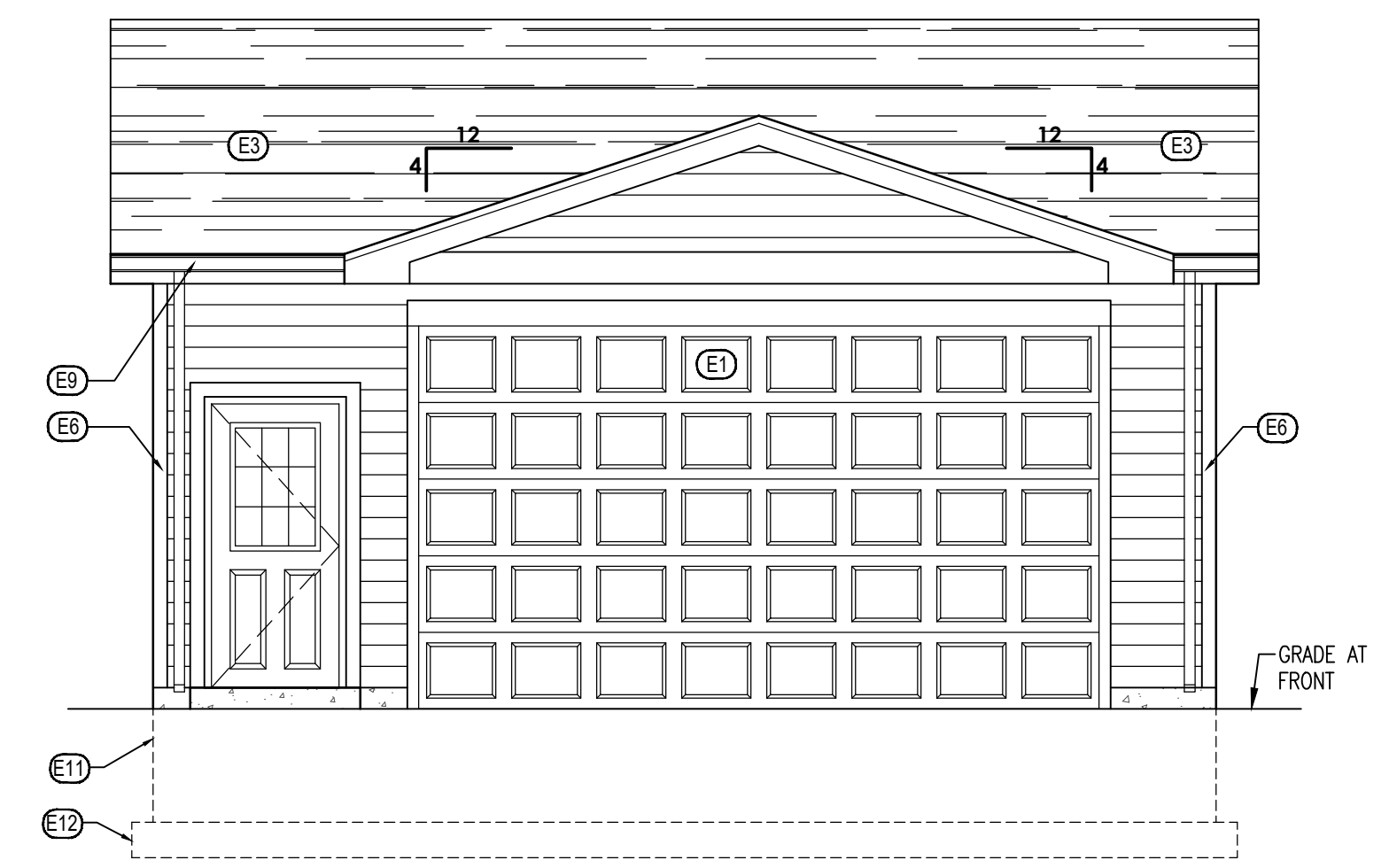
1 WEST (FRONT) ELEVATION
1/4" = 1'-0"



2 NORTH ELEVATION
1/4" = 1'-0"



3 EAST (REAR) ELEVATION
1/4" = 1'-0"



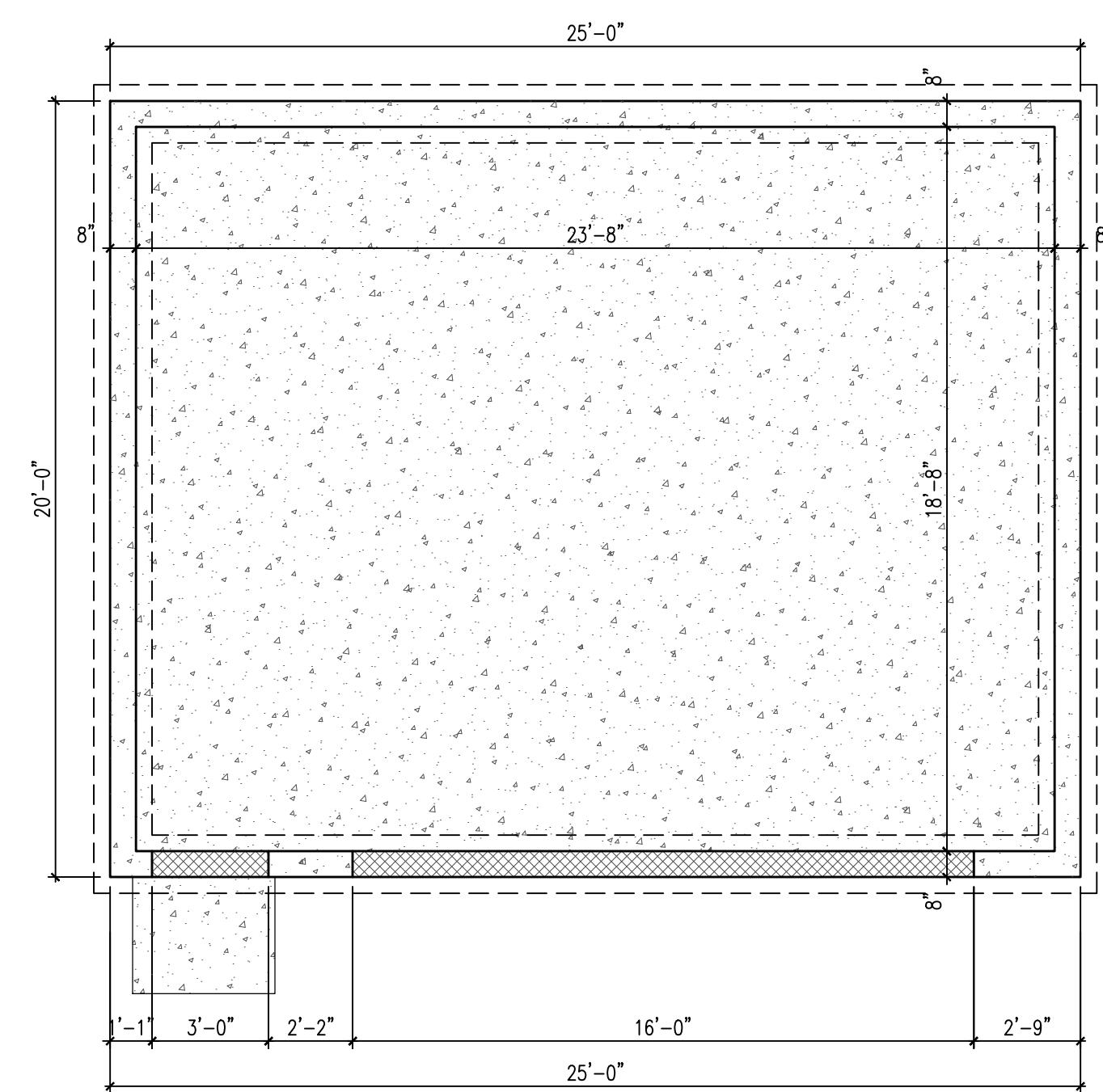
4 SOUTH ELEVATION
1/4" = 1'-0"

ELEVATION MATERIAL SCHEDULE

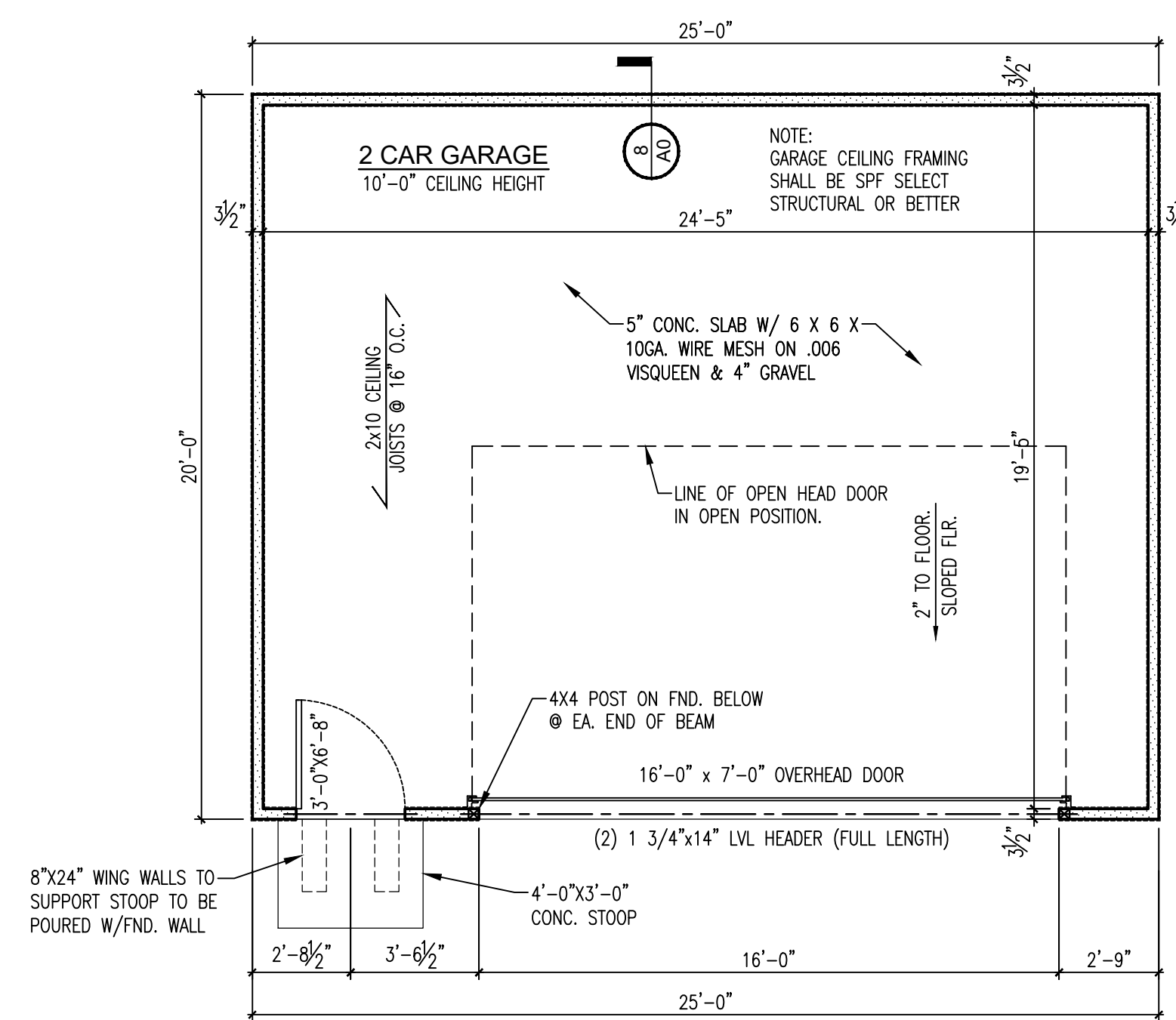
TAG	LOCATION	DESCRIPTION	MANUF.
E1	SIDING	HARDIEPLANK LAP SIDING SMOOTH COLOR: PEARL GRAY	JAMES HARDIE
E2	SIDING	HARDIEPLANK LAP SIDING SMOOTH COLOR: NIGHT GRAY	JAMES HARDIE
E3	NOT USED		
E4	ROOFING 1	ASPHALT SHINGLES COLOR: SLATE	GAF
E5	NOT USED		
E6	TRIM & FASCIA	HARDIETRIM COLOR: ARCTIC WHITE	JAMES HARDIE
E7	SOFFIT	HARDIESOFFIT VENTED SMOOTH COLOR: ARCTIC WHITE	JAMES HARDIE
E8	COLUMNS	CEDAR - PAINTED WHITE	SHERWIN WILLIAMS
E9	GUTTERS & DOWNSPOUTS	VINYL COLOR: WHITE	-
E10	LATTICE	CEDAR - PAINTED WHITE	SHERWIN WILLIAMS
E11	FOUNDATION WALL	CONCRETE	-
E12	FOOTING	CONCRETE	-

ELECTRICAL SCHEDULE

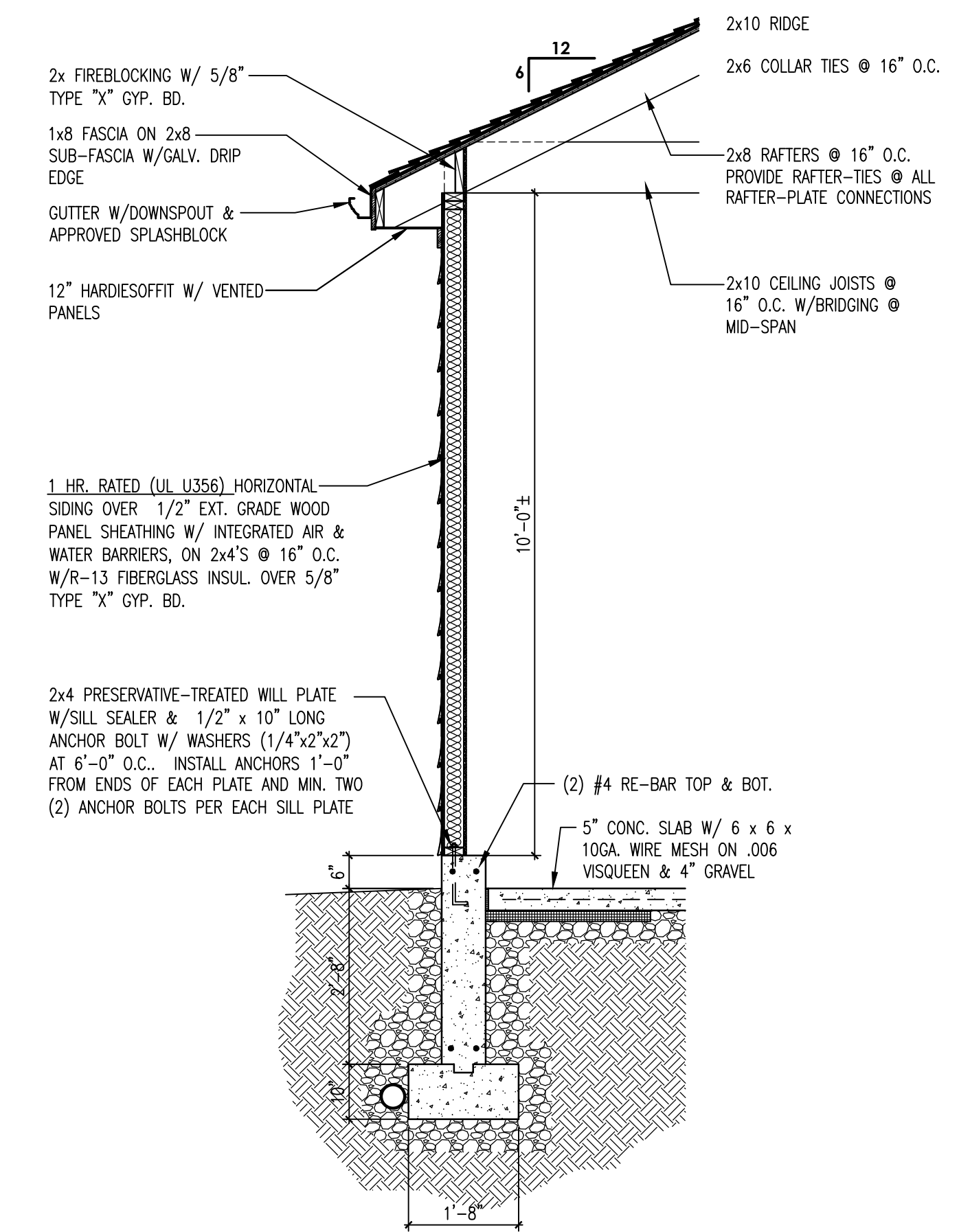
- 110 V. OUTLET, DUPLEX
- GFCI GROUND FAULT CONDUCTOR INTERRUPTOR
- QUADRUPLUX OUTLET, (4) RECEPTACLES/DEVICE
- JUNCTION BOX
- SWITCH, SEE PLAN FOR 3 WAY OR 4 WAY
- WALL MOUNTED LIGHT FIXTURE
- CEILING MOUNTED LIGHT FIXTURE



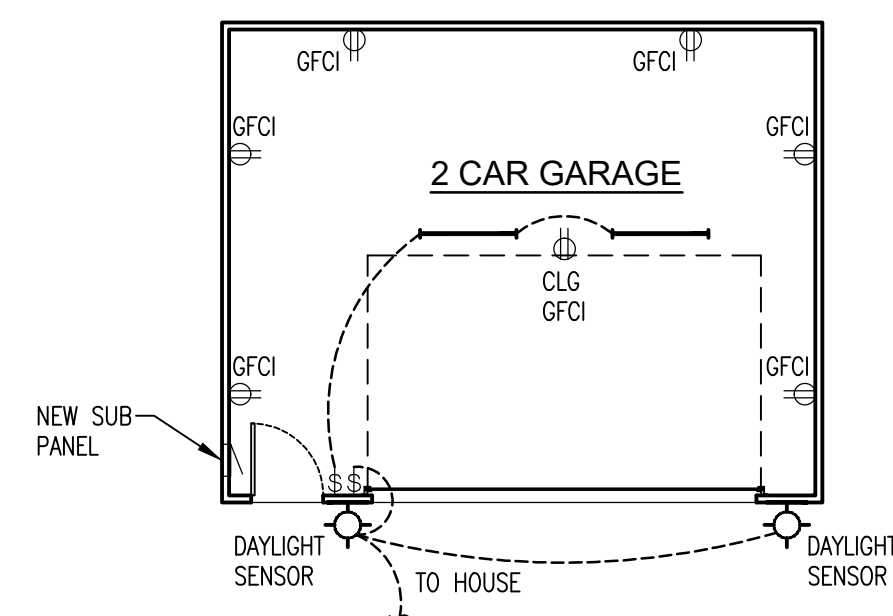
5 GARAGE FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



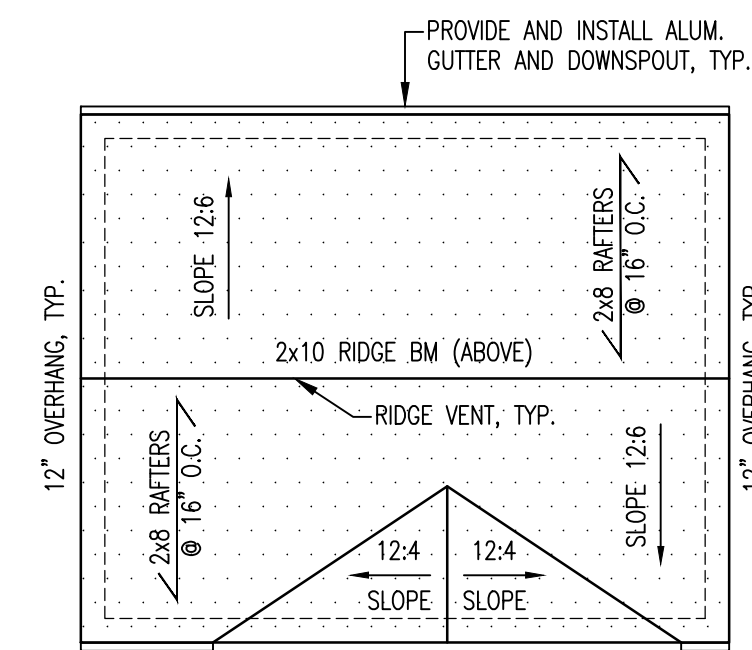
6 GARAGE FLOOR PLAN
SCALE: 1/4" = 1'-0"



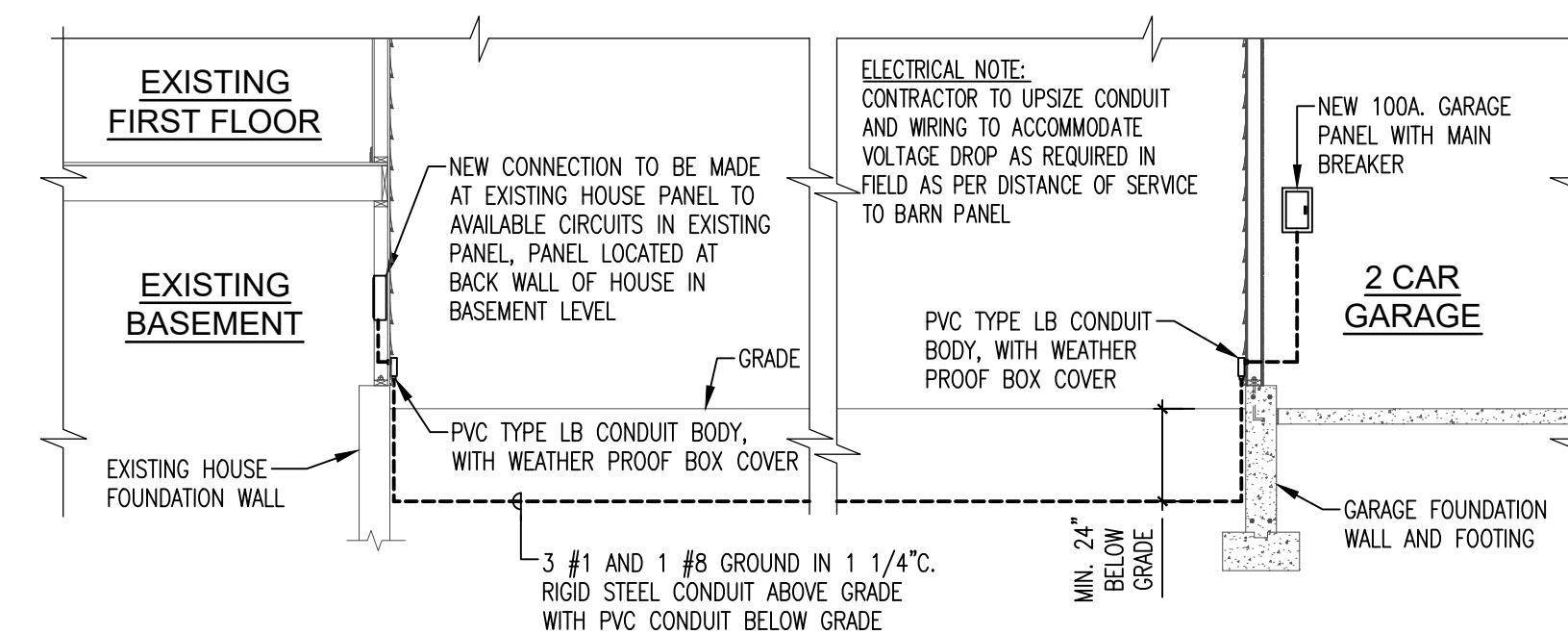
10 GARAGE WALL SECTION
1/2" = 1'-0"



7 GARAGE ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



8 GARAGE ROOF PLAN
SCALE: 1/8" = 1'-0"

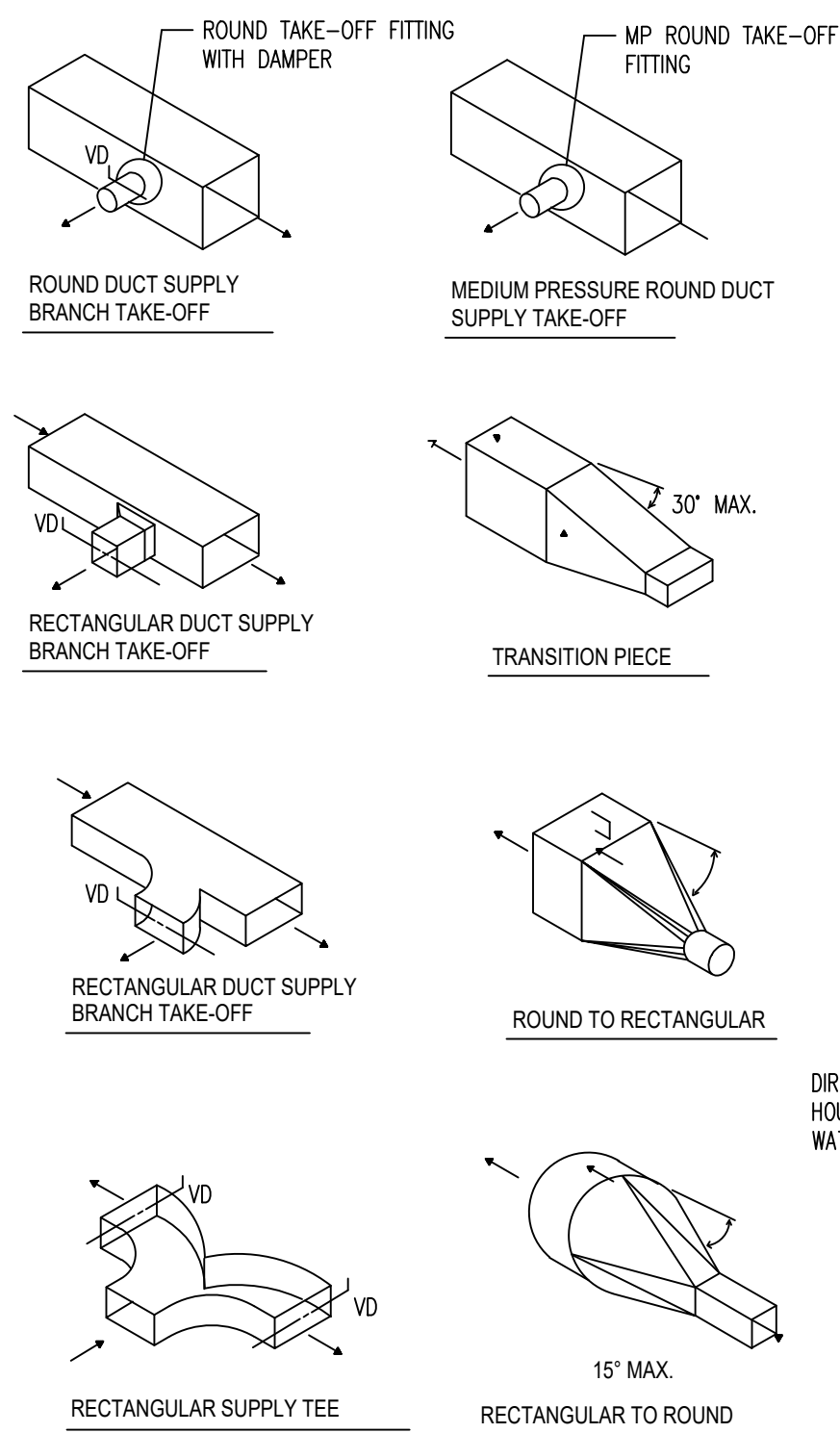


9 PROPOSED ELECTRICAL RISER DIAGRAM
NONE

GENERAL ELEVATION NOTES:

1. FINISHED GRADE SHALL BE 6" BELOW TOP OF FOUNDATION WALL.
2. GRADE SHALL SLOPE AWAY FROM CONCRETE WALK AT THE PORCH.
3. FOR ROOF PENETRATIONS, REFER TO ELECTRICAL, PLUMBING AND HVAC PLAN.
4. CORNER BRACING SHALL BE 1x4 DIAGONAL BRACING LET INTO 2x6 STUDS AT ALL OUTSIDE CORNERS & INTERIOR PARTITIONS OR 1/2" x 8'-0" PLWD SHEATHING.
5. PROVIDE MINIMUM PITCH FOR ALL GUTTERS.

No.	Date	Revisions / Submissions
03.02.2022	Date	
08.26.22	Date	
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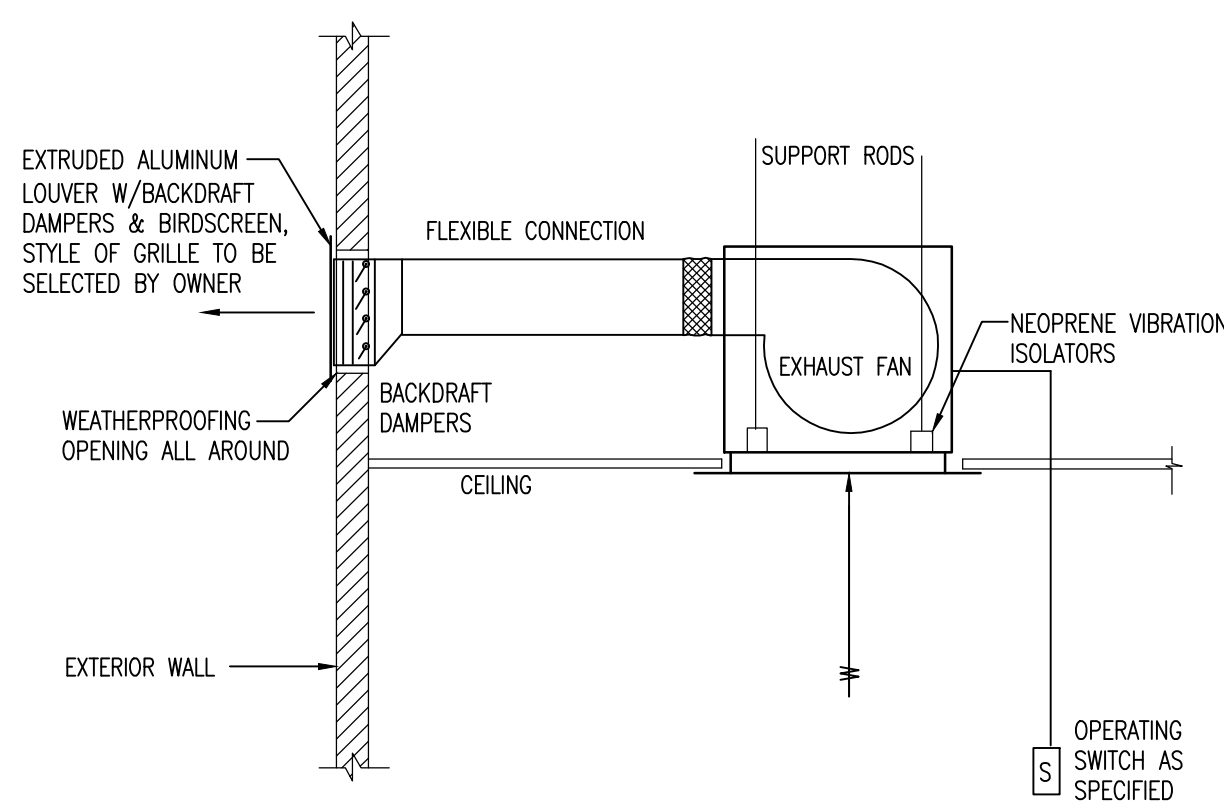


- NOTES:
1. PROVIDE STANDARD RADIUS ELBOWS WHEN POSSIBLE - SHORT RADIUS WHERE REQUIRED.
 2. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED & FASTENED AS RECOMMENDED BY SMACNA.
 3. NO SQUARE OR RECTANGULAR HEEL ELBOWS SHALL BE ALLOWED, EXCEPT WHERE INDICATED.

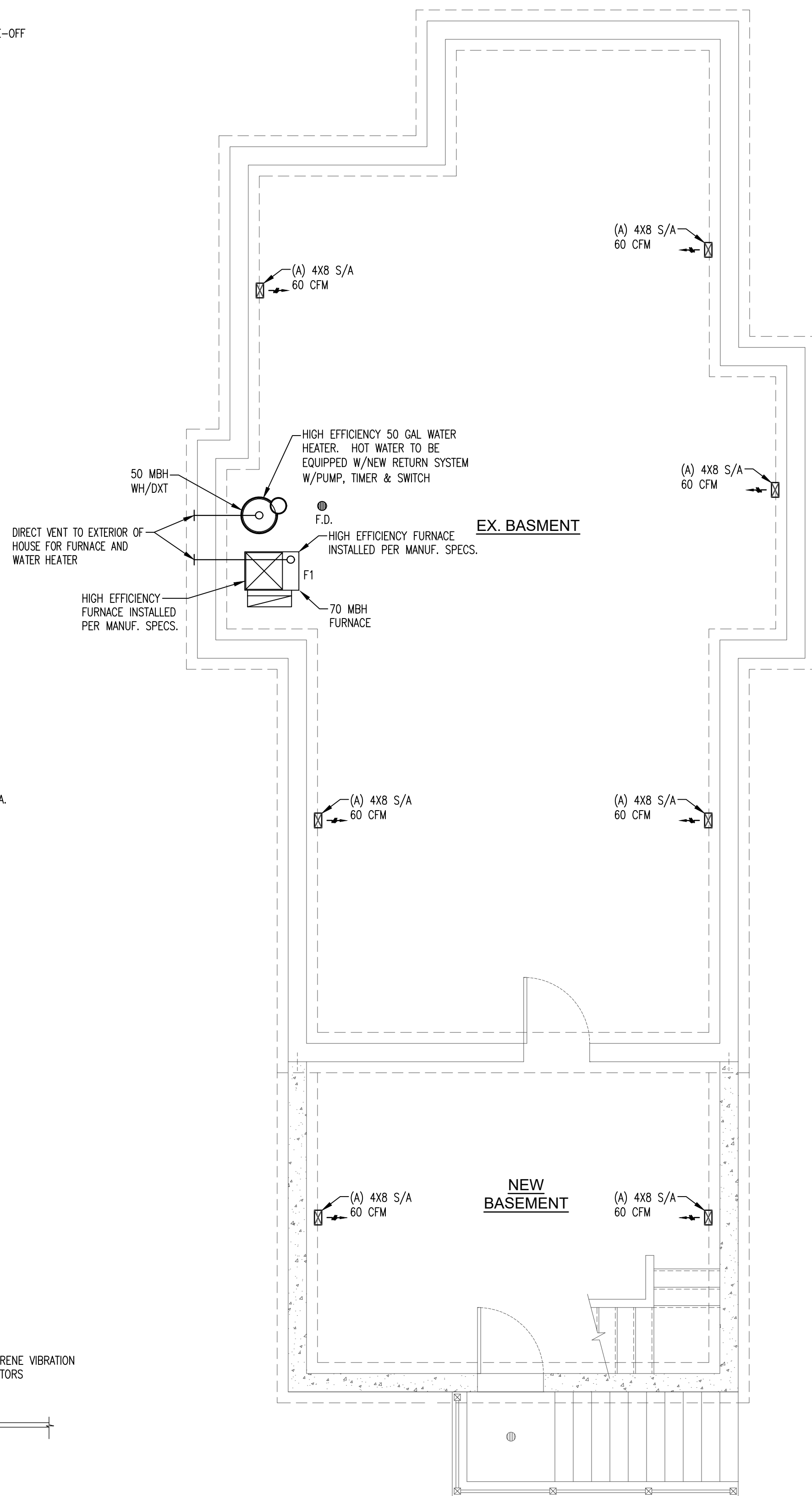
5 DUCTWORK DETAILS
NONE

NOTE:
PIPE INSULATION IS TO BE A MINIMUM OF R-3 FOR THE MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE ONE HUNDRED-FIVE DEGREES (109°).

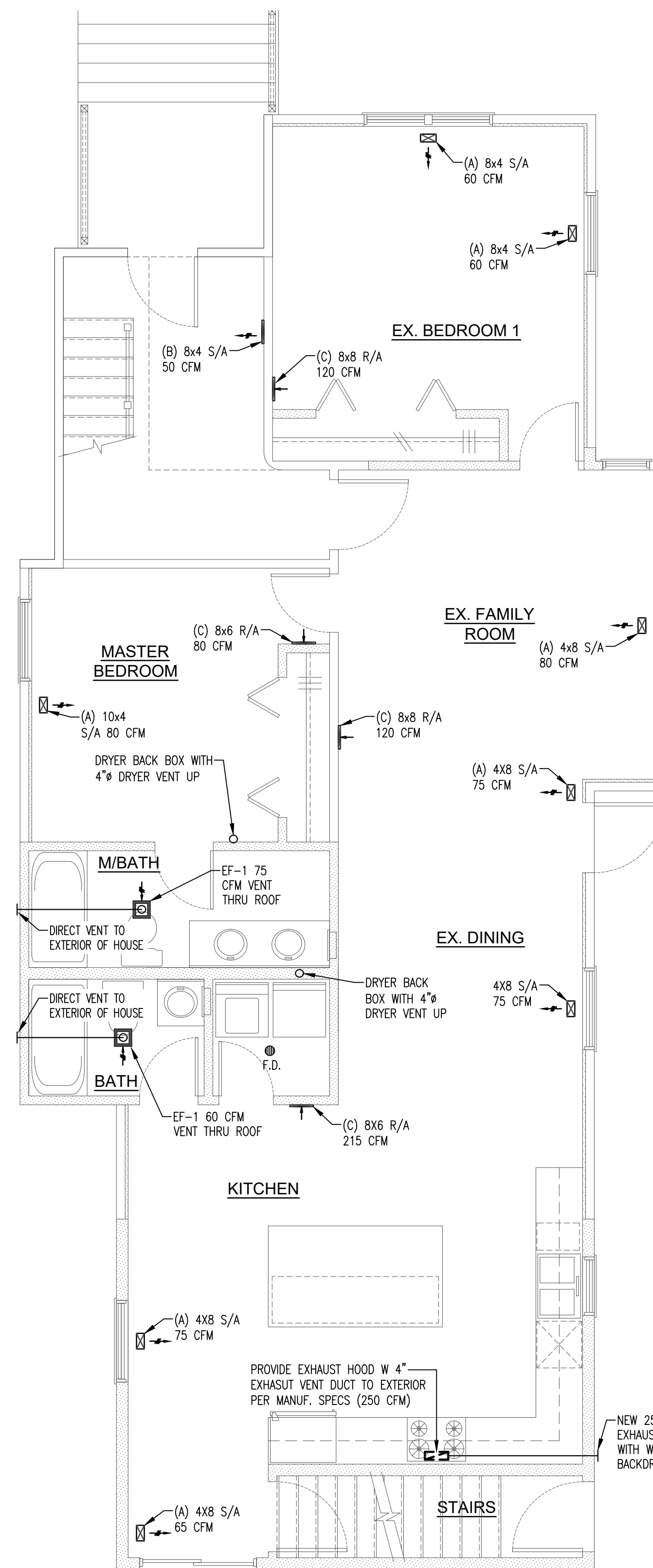
HEATING AND COOLING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ACCA MANUAL "S" AS CALCULATED IN ACCORDANCE WITH ACCA MANUAL "J". PROVIDE THIS DOCUMENT IN A RESUBMITTAL.



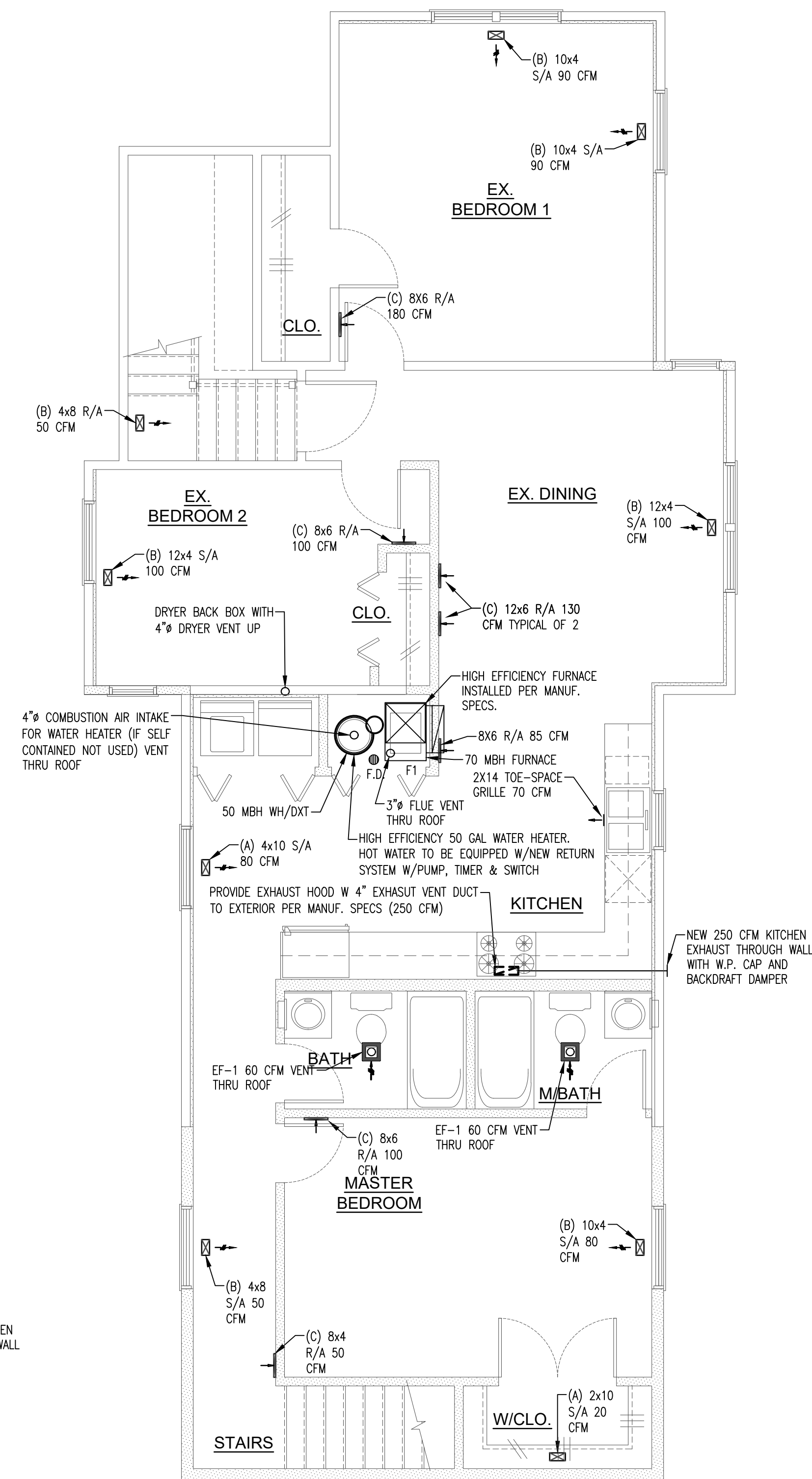
4 CEILING EXHAUST FAN DETAIL
SCALE: NONE



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



2 FIRST FLOOR PLAN - HVAC
SCALE: 1/4" = 1'-0"



3 SECOND FLOOR PLAN - HVAC
SCALE: 1/4" = 1'-0"

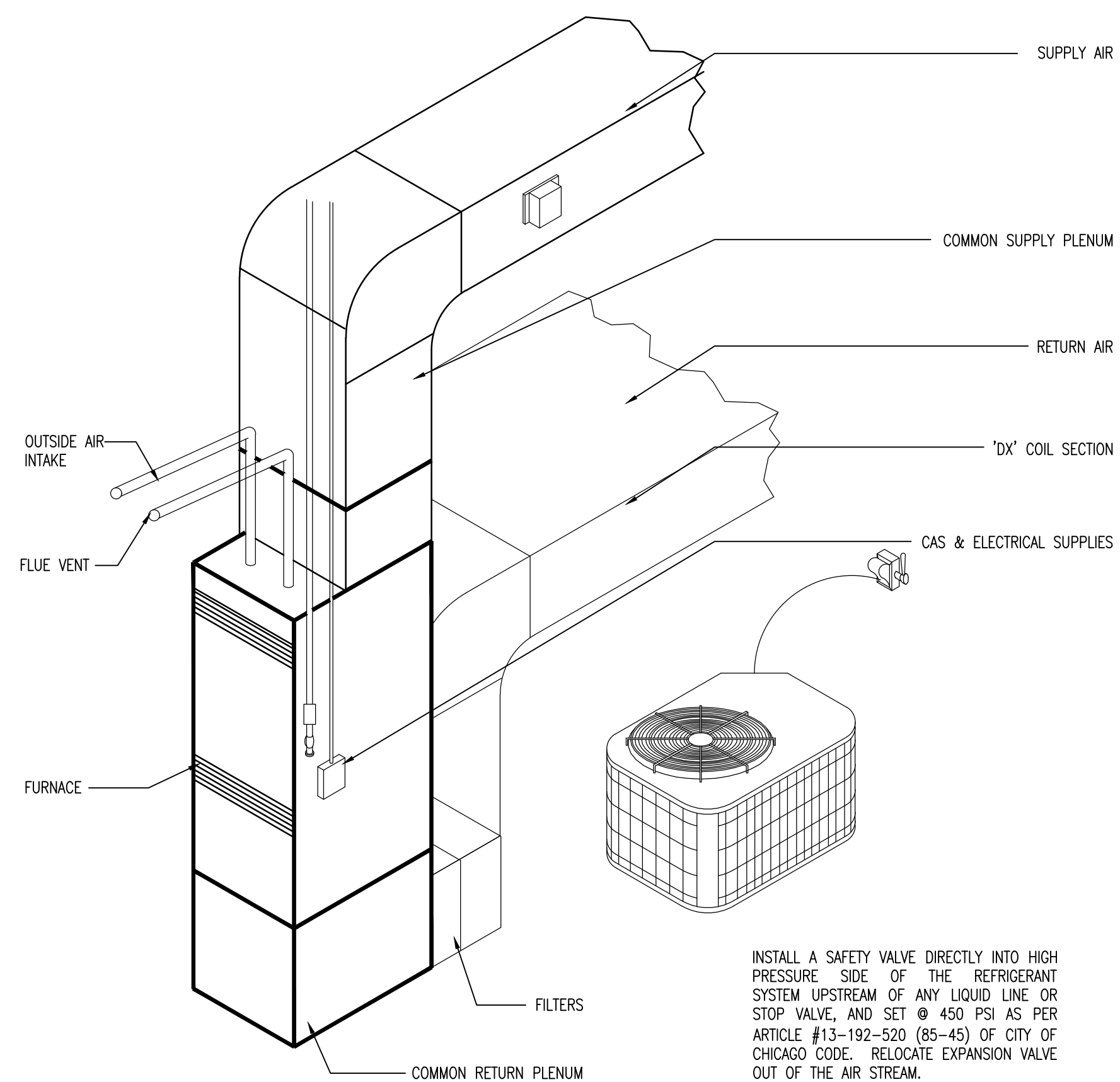
No.	Revisions / Submissions	Date
03.02.2022	Date	
08.26.22	Date	
ISSUED FOR PERMIT	Revisions / Submissions	
ENC	DATE:	08.26.22
PROJECT NO:	2021-138	
SCALE:	AS NOTED	
DRAWING NO:		

GENERAL MECHANICAL NOTES

- IT IS THE INTENT OF THESE DRAWINGS AND ATTACHED ARCHITECTURAL AND MECHANICAL SPECIFICATIONS THAT THE H.V.AC. CONTRACTOR SHALL PROVIDE, DELIVER, AND INSTALL ALL HEATING, VENTILATING, AND AIR-CONDITIONING SYSTEMS, DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, LOUVERS, INSULATION, EXHAUST AIR SYSTEMS, ACCESSORIES, TEMPERATURE CONTROL SYSTEMS, SPECIALTIES, PIPING, WIRING, GAS SERVICE AND DISTRIBUTION PIPING, TOOLS AND EQUIPMENT FOR A COMPLETE INSTALLATION OF ALL H.V.AC. SYSTEMS, GUARANTEE AND SERVICE.
- THE GENERAL CONDITIONS, LATEST A.I.A. EDITION, SUPPLEMENTARY GENERAL CONDITIONS AND SPECIFICATIONS ARE A PART OF THIS PROJECT.
- OSHA RULES, REGULATIONS AND REQUIREMENTS ARE A PART OF THIS PROJECT. H.V.AC. CONTRACTOR SHALL FOLLOW THEM ALONG WITH FEDERAL, STATE AND LOCAL REQUIREMENTS FOR THE SAFETY OF WORKERS ON THE JOB AND PASSERS-BY.
- PROVIDE ALL NECESSARY LIABILITY INSURANCE POLICIES AS REQUIRED BY THE ARCHITECTURAL SPECIFICATIONS. THIS CONTRACTOR SHALL KEEP THE ARCHITECT, ENGINEER, THEIR CONSULTANTS AND THE OWNER OF THE PROJECT HARMLESS FROM ALL CLAIMS, LOSSES, EXPENSES, OF ANY KIND, INCLUDING BUT NOT LIMITED TO ATTORNEY'S EXPENSES AND FEES, WHERE CLAIMS ARE FILED BY THEIR OWN EMPLOYEES OR ANY SUB-SUB-CONTRACTOR HIRED BY THIS CONTRACTOR AND/OR THEIR EMPLOYEES. THIS INDEMNITY SHALL ALSO APPLY TO ANY CLAIMS FILED BY OTHERS BECAUSE OF WORK DONE BY THIS CONTRACTOR.
- THIS CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL ITEMS SPECIFIED USING CONSTRUCTION METHODS THAT WILL PROTECT PROPERTY AT ALL TIMES AND PREVENT BODILY INJURY AND/OR DEATH. SPECIAL ATTENTION AND PRE-CAUTION SHALL BE PAID BY THE CONTRACTOR IN SELECTING THE SAFEST METHODS OR MEANS FOR THE INSTALLATION.
- THIS ARCHITECT/ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES, ACCEPTED BY THE ARCHITECT AND LEFT IN PERFECT OPERATING CONDITION.
- HVAC CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS FINAL BID. IF THERE ARE ANY DISCREPANCIES NOTIFY THE ARCHITECT AT ONCE.
- OBTAIN AND PAY ALL FEES AND PERMITS TO ALL PRIVATE AND PUBLIC AGENCIES HAVING JURISDICTION OVER THE PROJECT, PRIOR TO ORDERING, MANUFACTURING, PURCHASING OR INSTALLING ANY SYSTEM OR PIECE OF EQUIPMENT.
- CONSULT AND CHECK AT ALL TIMES THE LATEST ARCHITECTURAL, ELECTRICAL, PLUMBING AND EQUIPMENT DRAWINGS FOR EXACT LOCATION OF EACH DIFFUSER, REGISTER, GRILLE, LOUVER, DUCT AND EQUIPMENT. INSTALL, PIPE AND WIRE ALL EQUIPMENT AND DEVICES AS RECOMMENDED BY EACH MANUFACTURER.
- OMISSIONS FROM THE ARCHITECT'S DRAWINGS OR SPECIFICATIONS OF ANY ITEM NECESSARY FOR THE PROPER COMPLETION OR OPERATION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING THE SAME WITHOUT ANY ADDITIONAL COST TO THE OWNER. WHERE DIFFERENT DUCT, PIPE OR EQUIPMENT SIZES ARE SPECIFIED ON DRAWINGS THE LARGER SIZE SHALL BE USED.
- ALL EQUIPMENT SHALL BEAR THE UL/AGA LABEL FOR ITS SPECIFIC USE AND INSTALLATION.
- MAKE ALL NECESSARY ADJUSTMENTS, AIR BALANCING AND CORRECTIONS AS NEEDED FOR PROPER FUNCTION OF EACH SYSTEM WITHOUT EXTRA COST. AFTER COMPLETION OF THE PROJECT SUBMIT THREE SETS OF "AS BUILT", SHOP DRAWINGS AND ALL MANUFACTURERS WARRANTIES, GUARANTEES AND INSTRUCTIONS OF ALL INSTALLED SYSTEMS AND EQUIPMENT PROPERLY BOUND AND HANDED TO THE ARCHITECT FOR OWNER'S FILE.
- TEMPERATURE CONTROL SYSTEMS, PANELS, THERMOSTATS, CLOCKS, RELAYS, DEVICES, SPECIALTIES, WIRING, PIPING AND INTERLOCKING, SHALL BE PROVIDED BY THE H.V.AC. CONTRACTOR OR HIS TEMPERATURE SUB-CONTRACTOR. H.V.AC. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ENTIRE TEMPERATURE CONTROL INSTALLATION.

MECHANICAL GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF AURORA BUILDING CODE. PROVIDE ALL TESTS REQUIRED BY LOCAL CODES. ALL PERMITS, FEES, LICENSES, APPROVALS, AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- ALL SYSTEMS AND EQUIPMENT TO COMPLY WITH ALL GOVERNING LOCAL AND STATE CODES AS WELL AS CITY OF NORTH LAKE BUILDING CODES.
- EQUIPMENT NOISE LEVEL SHALL NOT EXCEED 55 DBA AT RESIDENTIAL PROPERTY LINES AND 62 DBA AT BUSINESS-COMMERCIAL PROPERTY LINES.
- DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH SEALED JOINTS CONSTRUCTED, INSTALLED, AND SUPPORTED IN ACCORDANCE WITH CURRENT SMACNA MANUAL.
- OUTSIDE AIR INTAKES SHALL BE MINIMUM 10' ABOVE GRADE AND MINIMUM OF 15' AWAY FROM ANY EXHAUST OR CONTAMINATION SOURCE.
- ALL ROUND FLEXIBLE DUCTWORK SHALL BE MAXIMUM OF 5'-0" IN LENGTH.
- ALL DIFFUSER BRANCHES SHALL BE INSTALLED WITH LOCKABLE DAMPERS THAT ARE ACCESSIBLE.
- ALL REGISTERS SHALL BE PROVIDED WITH INTEGRAL OPPOSED BLADE DAMPERS WHICH ARE FULLY ADJUSTABLE AND ACCESSIBLE FROM THE DIFFUSER FACE.
- ALL FLOOR MOUNTED DIFFUSERS SHALL BE INSTALLED WITHIN 9 INCHES OF THE PERIMETER WALL, DOOR, OR WINDOW.
- ALL SUPPLY AND RETURN OUTLETS SHALL BE BALANCED FOR PROPER AIRFLOW.
- DOMESTIC NATURAL GAS DRYER DUCTWORK SHALL BE METAL WITH SMOOTH INTERIOR FINISH, MALE END OVERLAPPED JOINTS SHALL EXTEND IN THE DIRECTION OF AIR FLOW. DUCTWORK SHALL NOT BE CONNECTED SHEET METAL SCREWS OR FASTENERS THAT WILL OBSTRUCT EXHAUST FLOW. FLEXIBLE TRANSITION DUCTS SHALL NOT EXCEED 8 FEET AND SHALL NOT BE CONCEALED WITHIN ANY WALLS OR CEILINGS. WEATHER AND RUST RESISTANT OUTLETS SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS.
- DOMESTIC KITCHEN DUCTWORK SHALL BE GALVANIZED STEEL DUCTWORK WITH SMOOTH INNER WALLS AND SEALED AIR TIGHT. PROVIDE BACKDRAFT DAMPER AT RISER CONNECTION AND/OR BUILDING EXIT.
- ALL EXHAUST DUCTWORK TO BE ROUTED TO THE EXTERIOR AND THE JOINTS SHALL BE TAPED AIR TIGHT. PROVIDE WEATHERPROOF TERMINATION CAP WITH A BACKDRAFT DAMPER.
- CARBON MONOXIDE DETECTORS AND SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE TO THE LOCAL CODES.
- REFRIGERANT PIPING TO BE TYPE K COPPER, SIZED AND INSTALLED IN ACCORDANCE WITH THE CONDENSING UNIT MANUFACTURER'S RECOMMENDATIONS.
- INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM OF ANY INTERVENING VALVES.
- COPPER TUBING USED IN REFRIGERATION SYSTEM SHALL HAVE BRAZED CONNECTIONS. SOLDERED JOINTS AND MECHANICAL JOINTS SHALL NOT BE USED.
- ALL NATURAL GAS SYSTEMS INCLUDING PIPING, VALVES, UNIONS, JOINTS, SUPPORTS, AND APPLIANCES SHALL BE INSTALLED TO MEET ALL STANDARDS SET FORTH BY APPLICABLE SECTIONS IN THE LATEST FUEL GAS CODE AND NFPA EDITIONS. ALL AMENDMENTS BY THE LOCAL GAS UTILITY AND BUILDING DEPARTMENT SHALL BE MET.
- ENSURE THAT PROPER COMBUSTION, VENTILATION, AND DILUTION AIR FLOWING FROM THE HABITABLE SPACE IS ADEQUATE FOR THE SAFE OPERATION OF THE CONNECTED APPLIANCES.
- INSTALL DRIPS AND DIRT LEGS AT POINTS WHERE CONDENSATE AND DIRT MAY COLLECT, INCLUDING SERVICE METER OUTLETS, ALL GAS APPLICANCE CONNECTIONS, LOW POINTS IN THE PIPING SYSTEM, AND BASE OF RISERS. ALL TRAPS TO BE ACCESSIBLE AND NOT SUBJECT TO FREEZING. USE MINIMUM NIPPLE LENGTH OF 3 PIPE DIAMETERS BUT NOT LESS THAN 3 INCHES.
- ALL NEW PIPING DOWNSTREAM OF THE METER SHALL BE TESTED FOR TIGHTNESS BEFORE APPLIANCES ARE INSTALLED. PIPING SHALL BE TESTED AT 3 PSIG FOR 30 MINUTES FOR PIPING SMALLER THAN 6 INCHES.
- INSTALL PIPING ADJACENT TO APPLIANCES TO ALLOW SERVICE AND MAINTENANCE. CONNECT PIPING TO APPLIANCES USING GAS WITH SHUT-OFF VALVES AND UNIONS. VALVE SHALL BE INSTALLED WITHIN 5 FEET OF EACH APPLIANCE.



5 FURNACE & A/C SYSTEM ISOMETRIC
SCALE : NONE

MECHANICAL EQUIPMENT SCHEDULE

F-1	FURNACE : RUUD OR EQ MODEL R95T0601317MSA, 600 CFM AT 0.5 E.S.P., 1/2 HP., 120V, 15 MOCp, "DX" COIL, DRAIN, 56,000 BTU/HR. INPUT, 48,384 BTU/HR OUTPUT, SINGLE STAGE BURNER, 95.0 AFUE, SEPARATE COMBUSTION & FLUE ASSEMBLY, HUMIDIFIER, REMOTE H-STAT., T-STAT, TEMPERATURE CONTROLS AND WIRING.
AC-1	CONDENSING UNIT: RUUD OR EQ. MODEL RA1518AJ1, 18,000 BTU/HR. COOLING CAPACITY, SCROLL COMPR. WITH 82 OZ. R410A REFRIGERANT, REFRIGERANT PIPING, ACCESSORIES, CONTROLS AND WIRING, CONCRETE PAD- 240V, 1PH., 60HZ., 20A MOCp.- SEER 14.5
F-2	FURNACE : RUUD OR EQ MODEL R95T0601317MSA, 800 CFM AT 0.5 E.S.P., 1/2 HP., 120V, 15 MOCp, "DX" COIL, DRAIN, 56,000 BTU/HR. INPUT, 48,384 BTU/HR OUTPUT, SINGLE STAGE BURNER, 95.0 AFUE, SEPARATE COMBUSTION & FLUE ASSEMBLY, HUMIDIFIER, REMOTE H-STAT., T-STAT, TEMPERATURE CONTROLS AND WIRING.
AC-2	CONDENSING UNIT: RUUD OR EQ. MODEL RA1524AJ1, 18,000 BTU/HR. COOLING CAPACITY, SCROLL COMPR. WITH 87 OZ. R410A REFRIGERANT, REFRIGERANT PIPING, ACCESSORIES, CONTROLS AND WIRING, CONCRETE PAD- 240V, 1PH., 60HZ., 20A MOCp.- SEER 14.5

DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG	MOUNT	MANUFR	MODEL	TYPE	FINISH	REMARKS
A	FLOOR REGISTER	HART & COOLEY	421	S.A. REGISTER	PER ARCHITECT	FACE OPERATED DAMPER
B	WALL/CEILING REGISTER	HART & COOLEY	682	S.A. REGISTER	PER ARCHITECT	FACE OPERATED DAMPER
C	WALL GRILLE	HART & COOLEY	672	R.A. GRILLE	PER ARCHITECT	----

EXHAUST FAN SCHEDULE

TAG	SERVES	MANU.	MODEL NUMBER	CFM	S.P.	WATTS	VOLT.	SONES	WALL OPENING	REMARKS
EF1	BATHROOMS	BROAN OR EQ.	ZB110L	100	.125	9.3	120	0.4	SEE DETAIL	1

REMARKS:

- INTERLOCKED WITH TOILET LIGHT SWITCH, FLAT WALL VENT - SEE DETAIL

ENERGY CODE NOTES

- ALL WORK AND EQUIPMENT SHALL MEET THE LATEST ENERGY CODE AS ADOPTED BY THE STATE OF ILLINOIS AND THE CITY OF AURORA.
- THE EXTERIOR DESIGN CONDITIONS ARE:
WINTER DB = -1 DEG F
SUMMER DB = 91 DEG F
SUMMER WB = 76 DEG F
HTG DEG DAYS= 6151
CLG DEG DAYS= 1015
- ALL ROOMS SHALL BE PROVIDED WITH SUFFICIENT HEAT TO MAINTAIN 70 DEG F WHEN IT IS -1 DEG F OUTDOORS.
- ALL JOINTS, SEAMS, OR PENETRATIONS IN THE PARTITIONS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SHALL BE SEALED.
- PROVIDE 3/4" INSULATION ON REFRIGERANT SUCTION PIPING.
- DUCTWORK LOCATED IN UNCONDITIONED ATTIC SPACES, PERIMETER WALLS, OR CRAWL SPACES WHERE THE AMBIENT TEMPERATURE IS EXPECTED TO REACH 87 DEG F, SHALL BE INSULATED WITH A 1-1/2" FIBERGLASS INSULATION (R-8 MIN). ALL SEAMS AND EDGES TO BE TAPED USING VAPOR BARRIER TAPE. ALL OUTSIDE AIR DUCTWORK SHALL BE INSULATED AS WELL.
- ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS, AND CONNECTIONS OF SUPPLY AND RETURN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. DUCT TAPE IS NOT PERMITTED AS SEALANT.

NOTES:

- OUTLET LOCATIONS MAY VARY DUE TO CODE CONDITIONS
- CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING AND LIGHTING LOADS, OR COMBINATIONS OF SUCH LOADS AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5 PERCENT, WILL PROVIDE REASONABLE EFFICIENCY OF OPERATION, NATIONAL ELECTRIC CODE 2011, 210.19 (A).
- ALL NEW BRANCH-CIRCUITS THAT SUPPLY OUTLETS (RECEPTACLE OUTLETS, LIGHTING OUTLETS, SMOKE ALARMS, ETC) SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
- WHERE EXISTING BRANCH-CIRCUIT WIRING OF THE EXISTING HOUSE IS MODIFIED, REPLACED, OR EXTENDED AS PART OF THIS ADDITION PROJECT, THE BRANCH CIRCUITS SHALL BE PROTECTED BY EITHER A COMBINATION-TYPE AFCI LOCATED AT THE ORIGIN OF THE BRANCH CIRCUIT OR AN OUTLET BRANCH-CIRCUIT TYPE AFCI LOCATED AT THE FIRST RECEPTACLE OUTLET OF THE EXISTING BRANCH CIRCUIT.

PLUMBING SPECIFICATIONS :

1. UNDERGROUND WATER SERVICE TO BE TYPE "K" COPPER AND SIZE AS SHOWN ON PLANS.
2. ABOVE GRADE WATER SUPPLY TO BE TYPE "L" OR "M" COPPER, SIZES AS SHOWN ON SCHEMATICS.
3. UNDER SLAB DWV PIPE TO BE A MIN. OF 4" SCH. 40 PVC OR CAST IRON.
4. PROVIDE SHUT OFF VALVES AND 12" AIR CHAMBERS AT EACH PLUMBING FIXTURE.
5. PROVIDE 24" AIR CHAMBERS AT ALL RISERS.
6. WATER CLOSETS TO BE 1.6 GAL. PER FLUSH.
7. FAUCETS TO BE 3 GAL. PER MIN.
8. TOILETS TO BE "KOHLER" WELLWORTH OR EQUAL.
9. FAUCETS TO BE "MOEN" IN CHROME OR EQUAL OR AS SELECTED.
10. FPHB MEANS FROST PROOF HOSE BIBS WITH VACUUM BREAKER PROTECTION, A MIN. OF TWO PER RESIDENCE.
11. S LINES TO BE BLACK IRON PIPE.
12. FD IS FLOOR DRAIN. VENT ALL FLOOR DRAINS.
13. PROVIDE A FLOOR DRAIN WITHIN 5 FT. OF FURNACES AND HOT WATER HEATERS.
14. PROVIDE 1" THICK INSULATION OVER PIPING IN CRAWL SPACE.
15. PROVIDE A 75 PSI AIR TEST OR WATER PRESSURE TEST AT TIME OF THE ROUGH INSPECTION.
16. PROVIDE A STACK TEST ON THE DRAINS AND VENTS AT THE TIME OF THE ROUGH INSPECTION.

DISREGARD ITEMS ABOVE THAT DO NOT APPLY

NOTE: INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND INSTALLATION DETAILS AND INSTRUCTIONS. USE ONLY CERTIFIED AND LICENSED INSTALLERS.

PLUMBING NOTES :

1. RUBBER CHECK VALVES ARE NOT PERMITTED ON SUMP DISCHARGE LINES.
2. HUBLESS PIPE OR FITTINGS ARE NOT TO BE USED.
3. TEES ARE NOT TO BE USED ON WASTE LINES.
4. CROSSES ARE NOT TO BE USED ON WASTE LINES.
5. INSTALL LEAD FLASHINGS - TYPICAL.
6. 25LB AIR TEST REQUIRED ON ANY NEW GAS PIPING AT TIME OF ROUGH INSPECTION.
7. ANTI-SCALD TUB/SOWER VALVES REQUIRED IN COMPLIANCE WITH SECTION 890.690.
8. PROVIDE A MINIMUM OF 120-DEGREE HOT WATER AND ADJUST LIMIT CONTROL STOPS ON TUB/SOWER VALVES TO 85 TO 115 DEGREES.
9. ALL EXISTING PLUMBING THAT MY POSE A HEALTH OR SAFETY HAZARD MUST BE REVISED TO MEET ILLINOIS PLUMBING CODE AND VILLAGE OF WOODBRIDGE ORDINANCES.
10. ALL NEW PLUMBING FIXTURES MUST BEAR THE WATER SENSE LABEL. DO NOT REMOVE THE WATERSENSE LABEL PRIOR TO PASSING THE FINAL INSPECTION AND HAVE FIXTURE CUT SHEETS ONSITE FOR FINAL INSPECTION

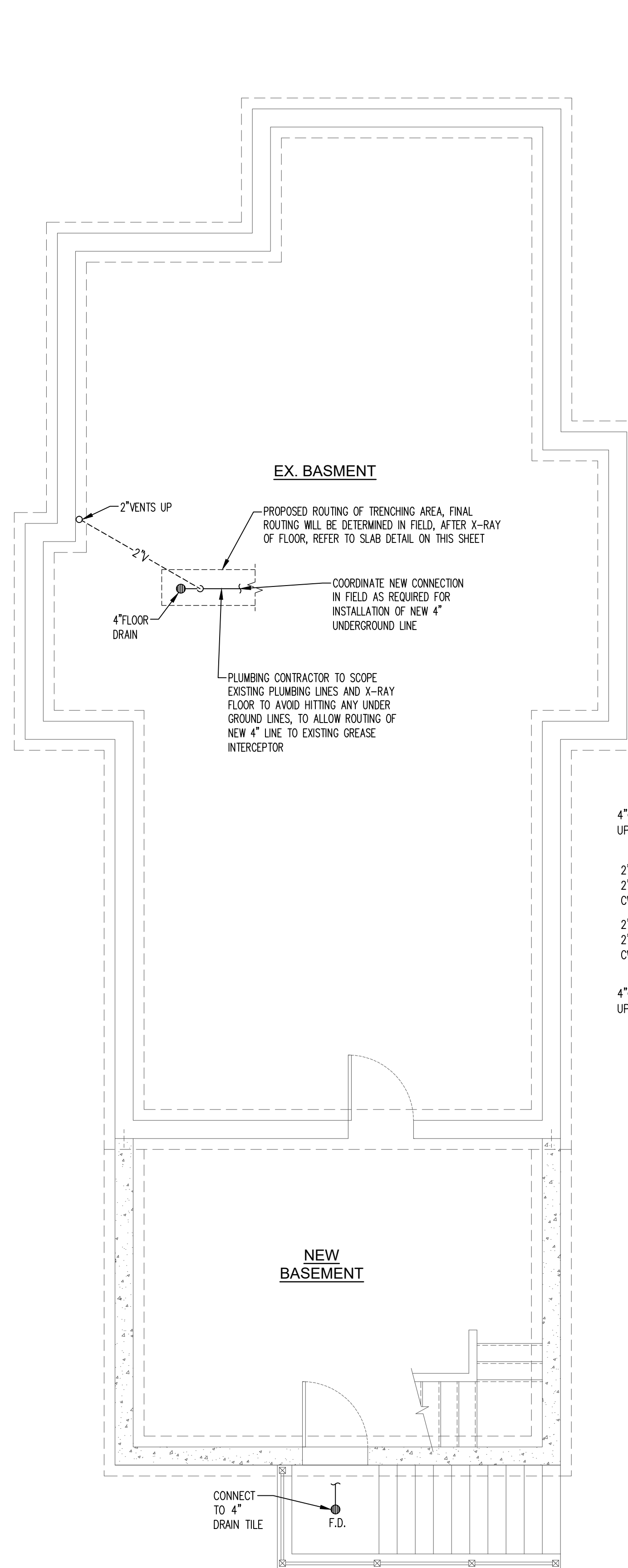
HEAT TRAPS. WATER HEATERS WITH VERTICAL PIPE RISERS SHALL HAVE A HEAT TRAP ON BOTH THE INLET AND OUTLET OF THE WATER HEATER UNLESS THE WATER HEATER HAS AN INTEGRAL HEAT TRAP OR IS PART OF A CIRCULATING SYSTEM.

WATER SUPPLY SCHEMATIC

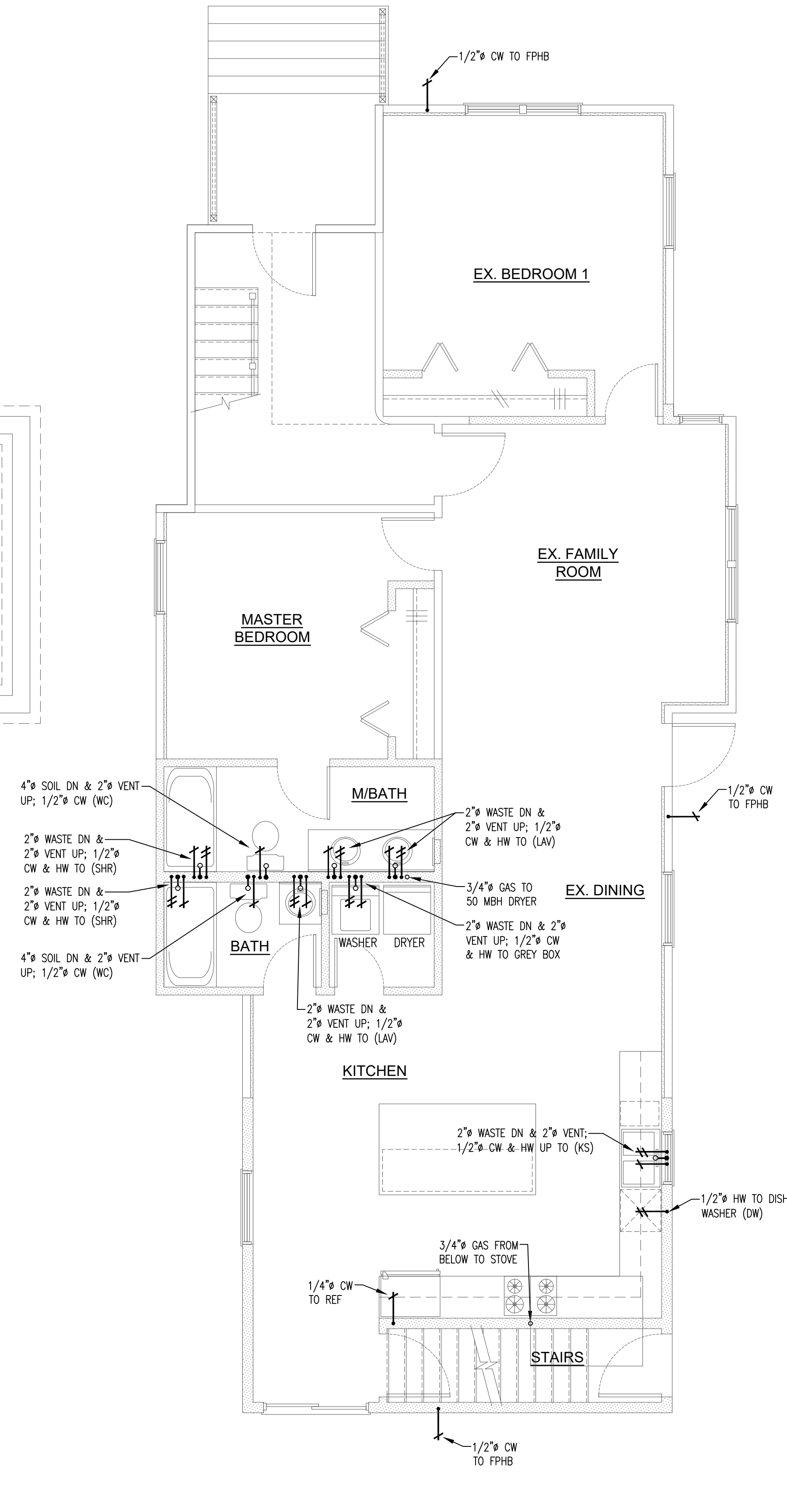
PROVIDE SHUT OFF VALVES & 12" AIR CHAMBERS @ ALL FIXTURES.
 TOILETS TO BE 1.6 GAL / FLUSH
 ALL FAUCETS TO BE 3 GAL / MIN.
 24" AIR CHAMBERS @ RISERS.
 ALL FAUCETS TO BE TEMPERATURE CONTROLLED ANTI - SCALD.
 USE MOEN TROL VALVES ON SHOWERS
 B-BOX TO BE INSTALLED ON WATER SERVICE

VILLAGE PLUMBING NOTES:

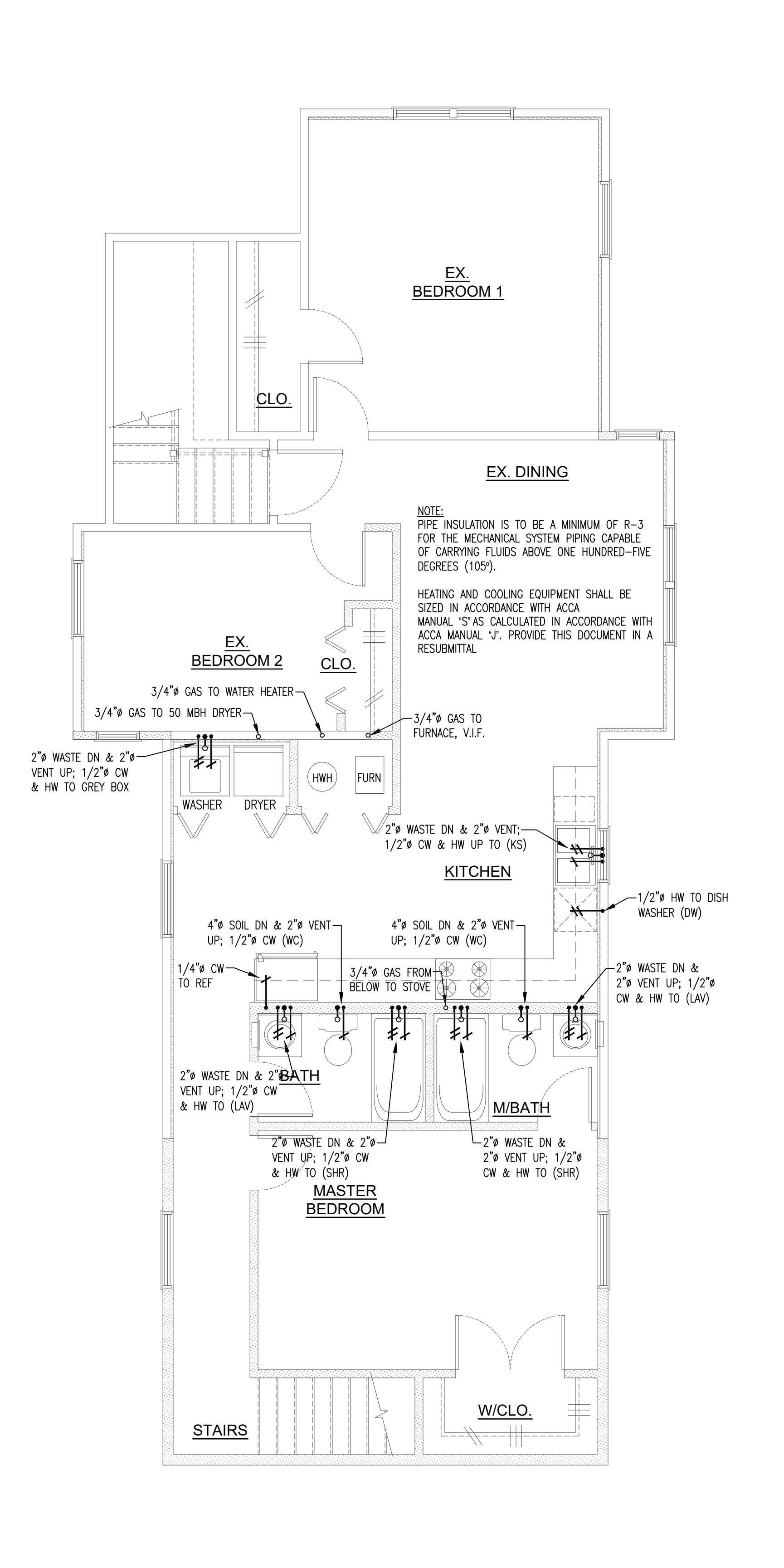
1. ALL WORK TO MEET PLUMBING CODES SET FORTH BY THE ILLINOIS DEPT. OF PUBLIC HEALTH - 2014.
2. ACCORDING TO PUBLIC ACT 094 0132 SEC. 37 - A LETTER OF INTENT SHALL BE INCLUDED WITH ALL PERMIT APPLICATIONS. THE LETTER SHALL BE WRITTEN ON THE LICENSED PLUMBER OF RECORD'S BUSINESS STATIONERY AND SHALL INCLUDE THE LICENSE HOLDER'S SIGNATURE AND, IF THE LICENSE HOLDER IS INCORPORATED, THE LICENSE HOLDER'S CORPORATE SEAL. IF THE LICENSE HOLDER IS NOT INCORPORATED, THE LETTER MUST BE NOTARIZED.
3. THE LICENSED PLUMBER OF RECORD LISTED ON THE PERMIT SHALL BE PRESENT ON ALL PLUMBING INSPECTIONS.
4. ALL GAS PIPING TO MEET IFGC - INCLUDING TESTING.
5. DOMESTIC WATER AS WELL AS SANITARY WASTE SHALL BE TESTED USING A TEST METHOD DESCRIBED IN 890.1930 A) - E)
6. EXHAUST HOODS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CFM SHALL BE PROVIDED WITH MAKEUP AIR APPROXIMATELY EQUAL TO THE EXHAUST. THE MAKEUP AIR SHALL EQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEOUSLY WITH THE EXHAUST SYSTEM. (GENERAL)FOLLOW THE REQUIREMENTS SET FORTH IN ILLINOIS ENERGY CODE REGARDING WORK TO BE DONE. PROVIDE PLAN REVIEW AT ALL INSPECTIONS. ALL UNDERGROUND PIPING SHALL BE BACKFILLED PER IDPH INCLUDING; 890.180, AS WELL AS MANUFACTURER SPECS. PROVIDE MANUFACTURER SPECS AT TIME OF INSPECTION.
7. ALL REQUIRED FIXTURES SHALL BEAR THE WATERSENSE LABEL.
8. ALL WORK SHALL BE INSPECTED AND APPROVED PRIOR TO BEING CONCEALED.
9. PROVIDE MANUFACTURE SPECS. FOR ALL NONMETALLIC SUPPLY AND DISTRIBUTION DOMESTIC WATER PIPING AT TIME OF INSPECTION.
10. SPRINKLER CONTRACTOR SHALL FOLLOW ILLINOIS PLUMBING LICENSE LAW (225 ILCS 320/2.5) IN ITS ENTIRETY.
11. IF APPLICABLE, SHOWER SAFE PAN MEMBRANE SHALL BE INSTALLED BY LICENSED PLUMBER AND BE INSPECTED BY VILLAGE PLUMBING INSPECTOR PRIOR TO POURING BASE ON TOP.
12. ANTI-SCALD SHOWER VALVES SHALL BE STAMPED ASSE-1016.
13. PROVIDE INSULATION AND DRYWALL BELOW THE RIM OF TUB ON ALL OUTSIDE WALLS.
14. FIRE BLOCKING SHALL BE INSTALLED AT ALL TUB AND SHOWER BASE FLANGES AT THE WALL CAVITIES.
15. KITCHEN SINK WASTE WITH DISHWASHER SHALL CONNECT TO A 2" DRAIN OR LARGER PER IDPH PLUMBING CODE 890 TABLE E.
16. ALL FAUCETS OR POTABLE WATER PIPE, FITTINGS, VALVES ETC SHALL MEET THE NEW NO-LEAD LAW.(NSF61)
17. SOLDER JOINTS BEFORE WATER METER IS PROHIBITED.
18. PROVIDE AN EJECTOR PIT FOR THE BASEMENT PLUMBING FIXTURES.



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



2 FIRST FLOOR PLAN - PLUMBING
 SCALE : 1/4" = 1'-0"



3 SECOND FLOOR PLAN - PLUMBING
 SCALE : 1/4" = 1'-0"

WATER SUPPLY FIXTURE UNIT (W.S.F.U.) SCHEDULE

FIXTURE	LOAD VALUES	TOTAL FIXTURES	C.W.S.F.U	H.W.S.F.U	TOTAL W.S.F.U
WATER CLOSET (Flush Tank)	C.W.S.F.U = 3 H.W.S.F.U = 0	4	12	-	12
LAVATORY	C.W.S.F.U = 75 H.W.S.F.U = 75	4	3	3	4
BATH TUB (residential)	C.W.S.F.U = 1.5 H.W.S.F.U = 1.5	2	6	6	8
KITCHEN SINK	C.W.S.F.U = 1.5 H.W.S.F.U = 1.5	2	3	3	4
LAUNDRY MACHINE	C.W.S.F.U = 1.5 H.W.S.F.U = 1.5	2	3	3	4
DISHWASHER (Residential)	C.W.S.F.U = 2 H.W.S.F.U = 2	2	-	2	2
TOTAL					88.25

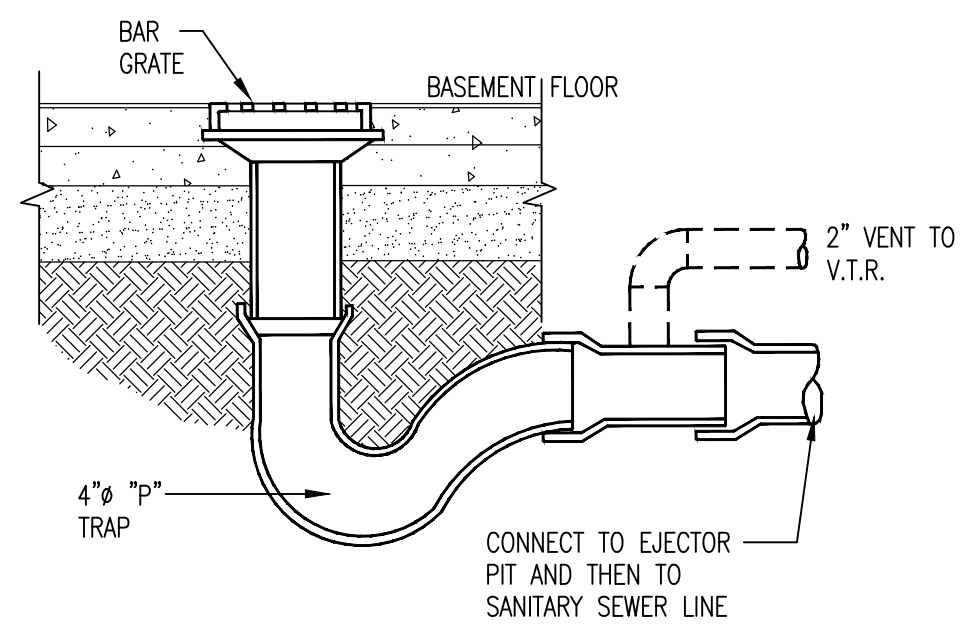
A CONTINUOUS WASTE SHALL NOT BE USED ON KITCHEN SINK DRAIN LINES. TWO TRAPS ARE REQUIRED, GARBAGE DISPOSAL AND BASKET STRAINER.

A 3" FULL SIZE STACK IS REQUIRED FOR WATER CLOSET UNLESS REVENTED BACK TO MAIN FULL SIZE STACK WITHIN 20 FEET.

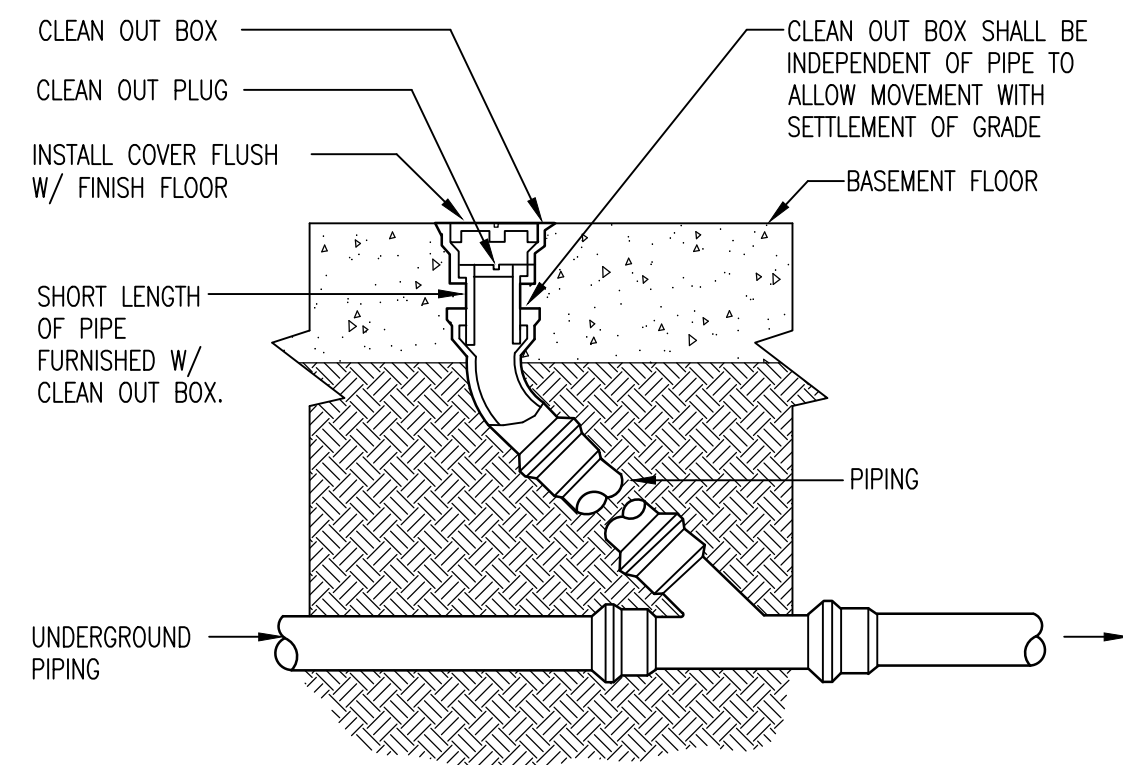
CIRCUIT AND LOOP VENTING AS PERMITTED PER 2014 ILL. PLUMBING CODE.

PLUMBING NOTES:

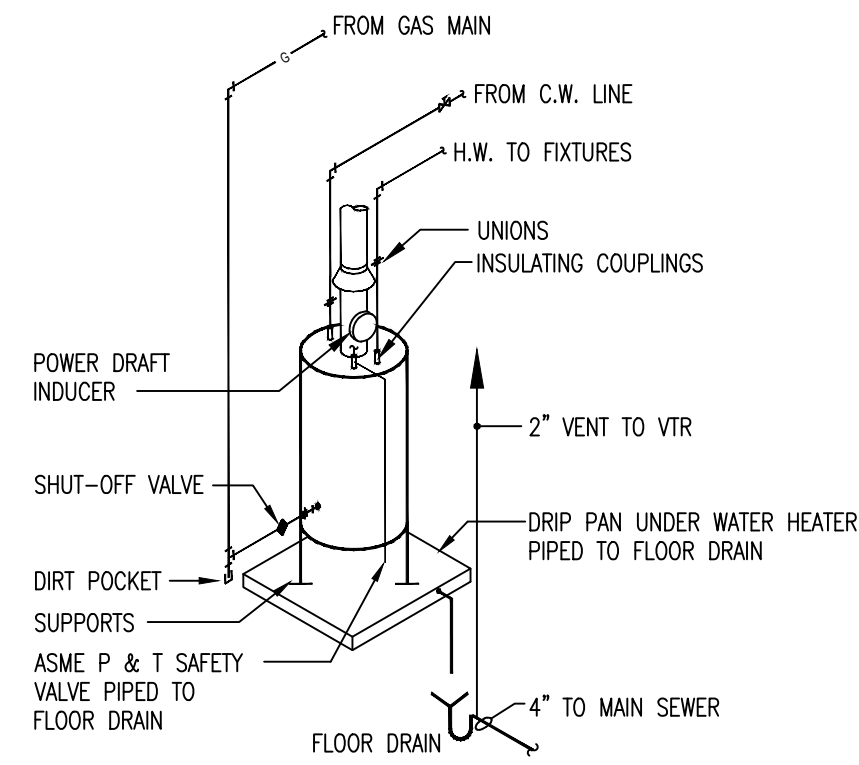
- RUBBER CHECK VALVES ARE NOT PERMITTED ON SUMP DISCHARGE LINES.
- HUBLESS PIPE OR FITTINGS ARE NOT TO BE USED.
- TEES ARE NOT TO BE USED ON WASTE LINES.
- CROSSES ARE NOT TO BE USED ON WASTE LINES.



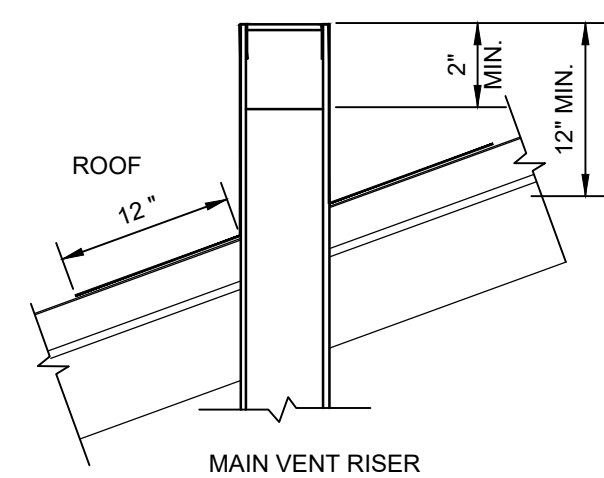
6 FLOOR DRAIN DETAIL
NONE



5 TYP. CLEANOUT DETAIL
NONE



4 WATER HEATER DETAIL
FOR ACTUAL PIPING CONNECTIONS FOLLOW MANUF. RECOMMENDATIONS



3 VENT THRU ROOF DETAIL
NONE

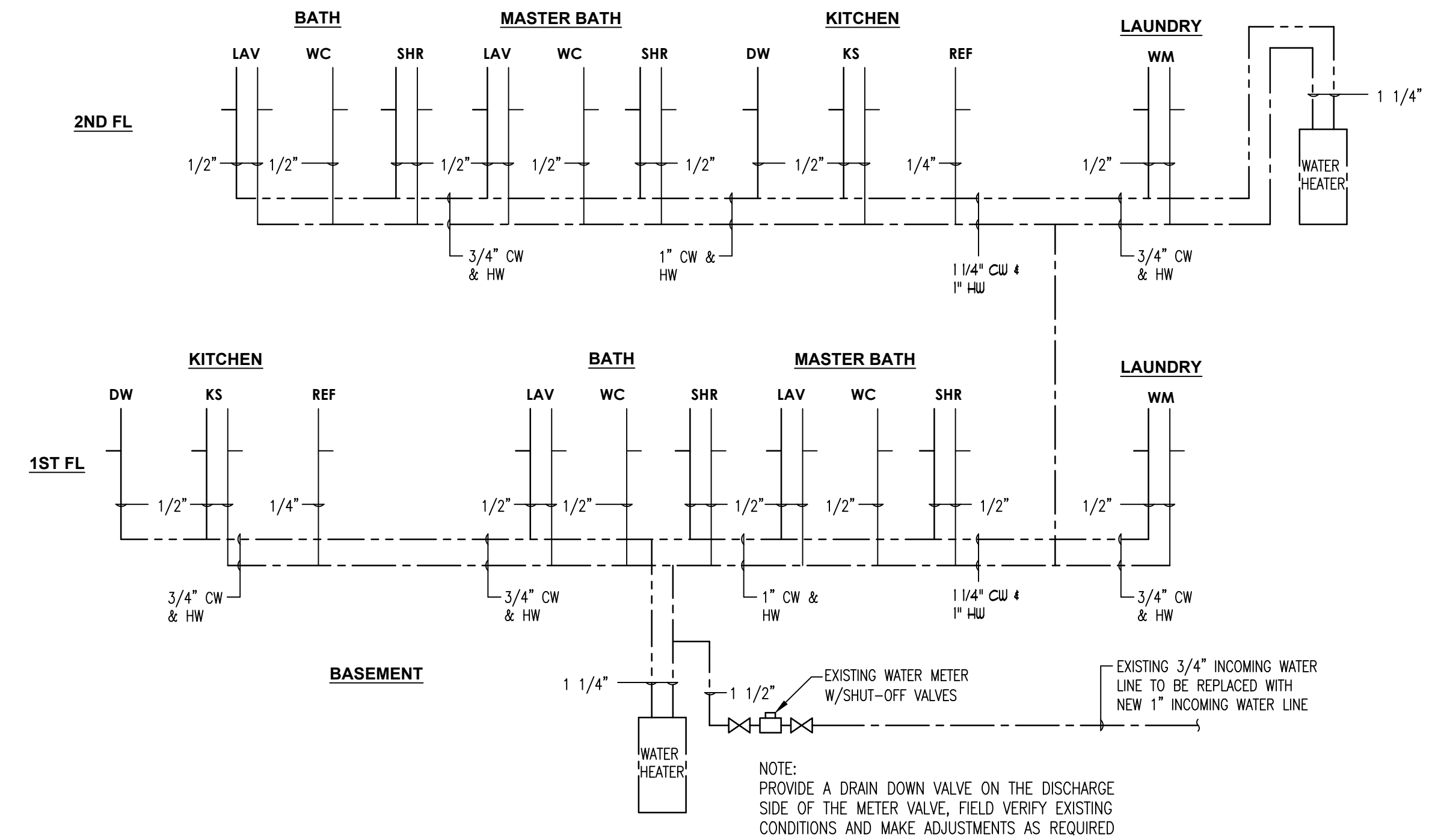
NOTE:
NEW WATER METER W/ELECTRONIC READER MUST BE INSTALLED BY LOMBARD PUBLIC WORKS DEPT. PRIOR TO THE FINAL INSPECTIONS. 1/2" CONDUIT, INSTALLED BY ELEC. CONTRACTOR IS REQUIRED FROM THE WATER METER LOCATION TO OUTSIDE OF THE BUILDING, NOT IN A FENCED-IN AREA.

REMOVAL OF AN EXISTING WATER METER IS PROHIBITED AND IT SHALL REMAIN OPERATION UNTIL THE NEW METER IS INSTALLED

IF A LARGER METER WITH LARGER SPREAD IS REQUIRED, A SPACER PIPE MAY BE USED IN ORDER TO ALLOW THE OLD METER REMAIN FUNCTIONAL.

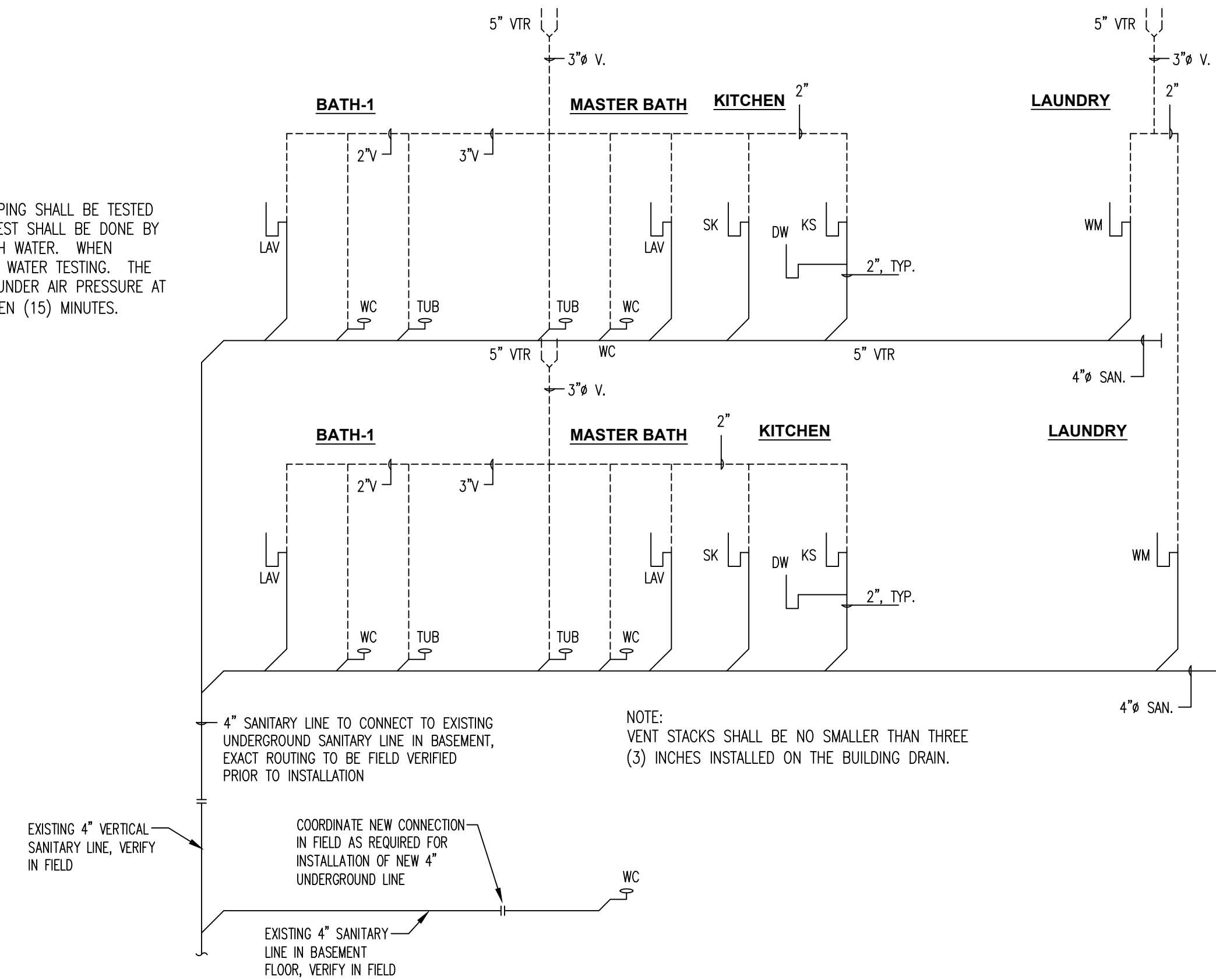
METER SPREADS: 1 1/2" NEPTUNE T-10 = 13" SPREAD

PLEASE CALL WATER BILLING AT 630-620-5920 TO SCHEDULE THE INSTALLATION



2 WATER DISTRIBUTION DIAGRAM
NONE

NOTE:
ALL DRAIN, WASTE AND VENT PIPING SHALL BE TESTED PRIOR TO ENCLOSING. SUCH TEST SHALL BE DONE BY FILLING THE ENTIRE SYSTEM WITH WATER. WHEN WEATHER CONDITIONS PRECLUDE WATER TESTING, THE ENTIRE SYSTEM SHALL BE PUT UNDER AIR PRESSURE AT 5 LBS. FOR A PERIOD OF FIFTEEN (15) MINUTES.



1 SANITARY DISTRIBUTION DIAGRAM
SCALE: NONE

No.	Date	Revisions / Submissions
03.02.2022	Date	
08.26.22	Date	
ISSUED FOR PERMIT		Revisions / Submissions

GENERAL NOTES

CLOSET
SURFACE MOUNTED FLUORESCENT FIXTURES INSTALLED NO CLOSER THAN 6" TO THE NEAREST STORAGE SPACE.

SURFACE MOUNTED INCANDESCENT FIXTURES INSTALLED NO CLOSER THAN 12" TO THE NEAREST STORAGE SPACE.

RECESSED INCANDESCENT OR FLUORESCENT FIXTURES WITH COMPLETELY ENCLOSED LAMP NO CLOSER THAN 6" TO THE NEAREST STORAGE SPACE.

KITCHEN
ANY POINT ALONG KITCHEN COUNTERTOP 12" OR WIDER SHALL NOT BE MORE THAN 24" FROM THE RECEPTACLE.

ALL RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE TAMPER RESISTANT GFI PROTECTED PER 2014 NEC SEC. 210-8, 210-52 - THE ENTIRE CCT SHALL BE ARC FAULT PROTECTED.

ELECTRICAL
RECEPTACLE RATING FOR A 20 AMPERE CIRCUIT RATING SHALL BE 20 AMPERES

RECESSED LIGHT FIXTURE
RECESSED LIGHT FIXTURE INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED (GASKET OR CAULK) TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES, BE IC RATED AND LABELED AS HAVING AN AIR LEAKAGE RATE OF NOT MORE THAN 2.0 CFM

A MIN. OF 90% OF THE NEW LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES WILL BE HIGH EFFICIENCY LAMPS PER 2018 IECC

BATHROOM
REFER TO NEC 2014, SEC. 210.11C FOR BATHROOM CIRCUIT REQUIREMENTS LOCAL AMENDMENT REQUIRES ENTIRE BATHROOM INCLUDING LIGHTS, OUTLETS AND FANS TO BE GFI PROTECTED

BATHROOM EXHAUST FAN SHALL BE EITHER 20 CFM CONTINUOUS OR 50 CFM INTERMITTENT USE AND SHALL TERMINATE ON THE EXTERIOR OF THE BUILDING UTILIZING A ROOF CAP OR WALL JACK SYSTEM AND EQUIPPED WITH BACK DRAFT DAMPER

HABITABLE ROOMS
ALL FINISHED AREAS TO HAVE A ARC-FAULT INTERRUPTERS PER NEC 2014 SEC. 210-12 ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE 15- AND 20 AMPERE OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AND ARC-FAULT CIRCUIT INTERRUPTER TO PROVIDE PROTECTION OF ENTIRE BRANCH CIRCUIT.

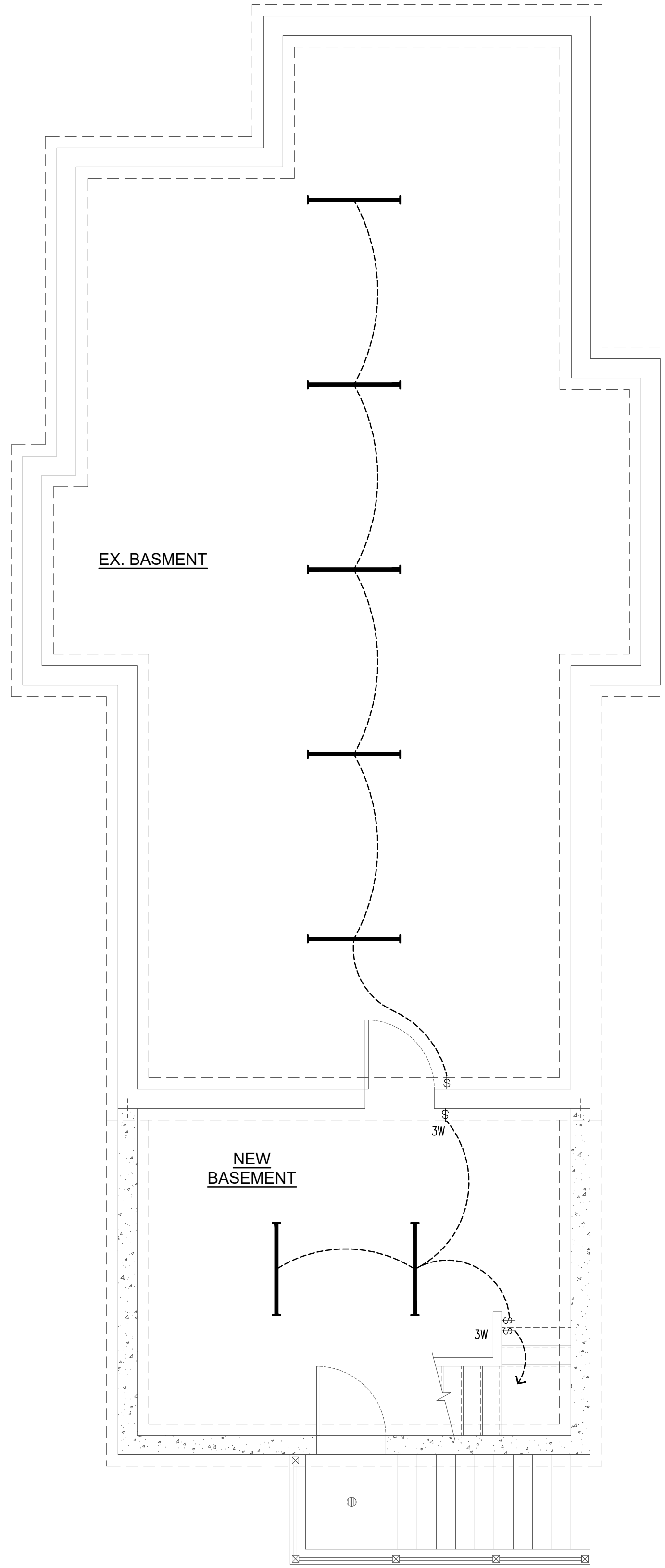
NEC 2017 SEC. 210-12 ARC-FAULT INTERRUPTERS
ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION SHALL BE PROVIDED AS FOLLOWS:
(A) DWELLING UNITS: ALL 120-VOLT, SINGLE PHASE 15- AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

- NOTES:**
1. OUTLET LOCATIONS MAY VARY DUE TO CODE CONDITIONS
 2. CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING AND LIGHTING LOADS, OR COMBINATIONS OF SUCH LOADS AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5 PERCENT, WILL PROVIDE REASONABLE EFFICIENCY OF OPERATION, NATIONAL ELECTRIC CODE 2014, 210.19 (A).
 3. ALL NEW BRANCH-CIRCUITS THAT SUPPLY OUTLETS (RECEPTACLE OUTLETS, LIGHTING OUTLETS, SMOKE ALARMS, ETC) SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
 4. ALL OUTLETS SHALL BE LISTED AND LABELED TAMPER RESISTANT.
 5. CO AND SMOKE DETECTORS SHALL BE ON A DEDICATED CIRCUIT (NON GFI-NON ARC FAULT). DETECTORS SHALL HAVE A BATTERY BACK UP
 6. SMOKE DETECTORS ON UNDERSIDE OF UNCONDITIONED SPACES (ATTICS) SHALL HAVE THE CONDUIT SEALED TO PREVENT MOISTURE FROM CONDENSATION FROM ENTERING THE DETECTOR AND SETTING OFF FALSE ALARMS
 7. IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM OR SIMILAR AREAS OF A DWELLING UNIT, THE TWO OR MORE 20 AMP SMALL APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE ALL WALL AND FLOOR OUTLETS AND ALL COUNTERTOP OUTLETS AS WELL AS OUTLETS FOR REFRIGERATION EQUIPMENT. 2014 NEC 210.52(B)

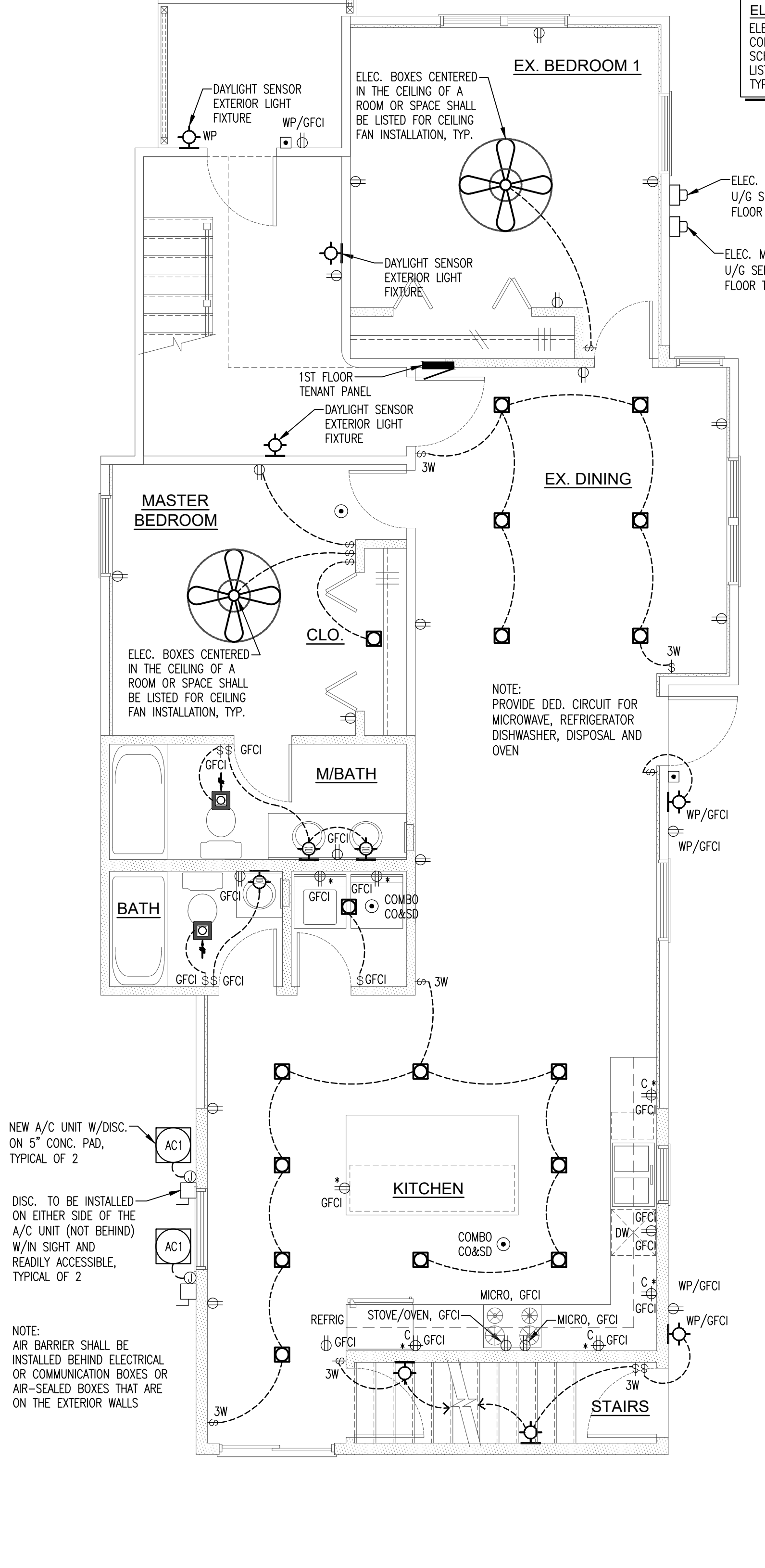
NOTES:

1. IN ALL OCCUPANCIES: STAIRS, HALLS, CORRIDORS, GARAGES, AND ROOMS OF ANY SHAPE, SIZE, OR LOCATION, WITH MORE THAN ONE ENTRY AND EXIT MUST HAVE THE LIGHTING FOR THAT AREA SWITCHED AT ALL EXITS AND ENTRIES AND THE PATH OF TRAVEL- WHEN ENTERING ONE ROOM AND LEAVING ANOTHER, YOU MUST BE ABLE TO TURN ON THE LIGHT WHEN ENTERING AND OFF WHEN LEAVING AT THAT POINT. THE SWITCH SHALL BE LOCATED AT THE LATCH SIDE OF THE DOOR, AND CANNOT BE LOCATED AT ANY POINT FURTHER THAN THREE- FEET IN PATH OF TRAVEL OR BEHIND OBJECTS. ALL ENTRANCE OR EXIT DOORS THAT PROVIDE ACCESS TO GRADE LEVEL MUST BE PROVIDED WITH EXTERIOR ILLUMINATION BY A LIGHT LOCATED ON THE BUILDING. (SINGLE FAMILY)
2. APPLIANCES: INDIVIDUAL CIRCUITS ARE REQUIRED FOR ALL APPLIANCES.
3. MAXIMUM OF ELECTRICAL OPENINGS PER CIRCUITS: 9 - 15 AMPS; 11 - 20 AMPS.
4. ALL BOXES MOUNTED IN CEILING MUST BE RATED FOR FAN SUPPORT.
5. INSTALL A LIGHTING FIXTURE OVER KITCHEN SINKS. IT MUST BE RECESSED TYPE OR ENCLOSED BULB TYPE.
6. INSTALL 1/2" EMT TO OUTSIDE OF BUILDING FROM WITHIN 1-FOOT OF WATER METER FOR R.O.M.
7. ARC FAULT OR GFI ALL HOUSE ROOM DEVICES.
8. ALL OUTLETS SHALL BE TAMPER RESISTANT (TR) TYPE.

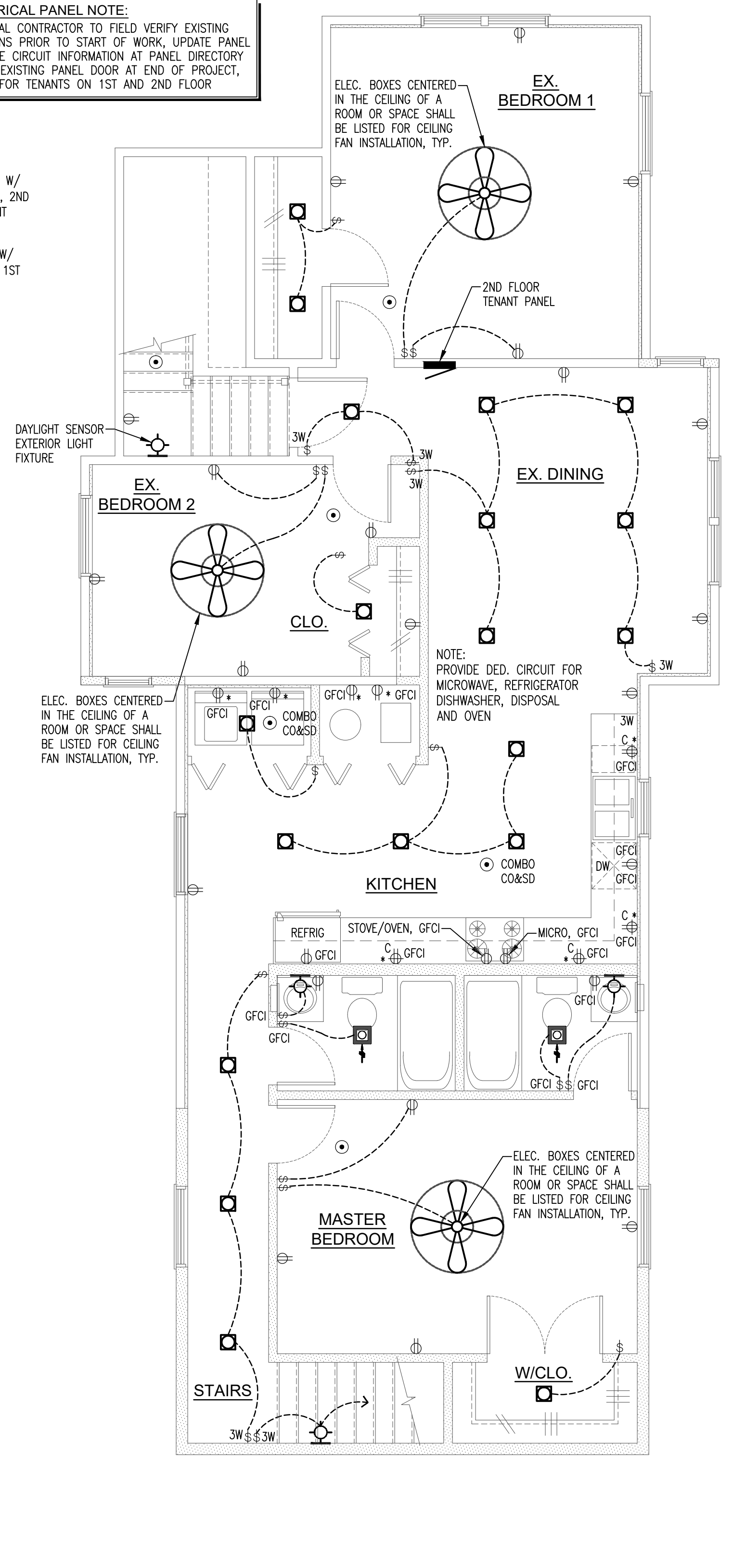
ELECTRICAL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED FIXTURE		CIRCUIT BREAKER PANEL NUMBER OF AMPS SHOWN ON PLAN.		DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTED & WEATHERPROOF
	RECESSED LIGHT FIXTURE (IC RATED WHERE REQUIRED)	WP	WEATHER PROOF		DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTED & WEATHERPROOF
	RECESSED LIGHT FIXTURE (WET RATED)	GFCI	GROUND FAULT CONDUCTOR INTERRUPTOR		110V SMOKE DETECTOR INTERCONNECTED W/BATTERY BACK-UP
	CEILING MOUNTED LIGHT FIXTURE		110V SMOKE DETECTOR INTERCONNECTED W/BATTERY BACK-UP		110V SMOKE DETECTOR INTERCONNECTED W/BATTERY BACK-UP
	COMBO LIGHT / EXHAUST FAN FIXTURE		DUPLEX RECEPTACLE		PUSH-BUTTON DOOR BELL
	WALL-MOUNTED SCONCE LIGHT FIXTURE		DUPLEX RECEPTACLE ABOVE COUNTER		DISCONNECT SWITCH
	CEILING FAN & LIGHT COMBO W/FAN-APPROVED JUNCTION BOX		DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTED		JUNCTION BOX
	SINGLE POLE SWITCH		220V RECEPTACLE		



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



2 FIRST FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



3 SECOND FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"

ELECTRICAL PANEL NOTE:
ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK, UPDATE PANEL SCHEDULE CIRCUIT INFORMATION AT PANEL DIRECTORY LIST ON EXISTING PANEL DOOR AT END OF PROJECT, TYPICAL FOR TENANTS ON 1ST AND 2ND FLOOR

NEW A/C UNIT W/DISC. ON 5" CONC. PAD, TYPICAL OF 2

DISC. TO BE INSTALLED ON EITHER SIDE OF THE A/C UNIT (NOT BEHIND) W/IN SIGHT AND READILY ACCESSIBLE, TYPICAL OF 2

NOTE: AIR BARRIER SHALL BE INSTALLED BEHIND ELECTRICAL OR COMMUNICATION BOXES OR AIR-SEALED BOXES THAT ARE ON THE EXTERIOR WALLS

NOTE: PROVIDE DED. CIRCUIT FOR MICROWAVE, REFRIGERATOR, DISHWASHER, DISPOSAL AND OVEN

NOTE: PROVIDE DED. CIRCUIT FOR MICROWAVE, REFRIGERATOR, DISHWASHER, DISPOSAL AND OVEN

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