

ARCHITECTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	FD	FLOOR DRAIN	MFR	MANUFACTURER
A.C.T.	ACOUSTICAL TILE	FE	FIRE EXTINGUISHER	M.O.	MASONRY OPENING
A.C.L.	AIR CONTROL LAYER	FG	FIBERGLASS	M.R.	MOISTURE RESISTANT
ACC.	ACCESSIBLE	FH	FIRE HYDRANT	MAT.	MATERIAL
A.D.	AREA DRAIN	F.O.	FACE OF	MAX.	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	F.O.F.	FACE OF FINISH	MECH.	MECHANICAL
A/C	AIR CONDITIONING	FIN.	FINISH(ED)	MEZZ.	MEZZANINE
ACOUS.	ACOUSTICAL	FIXT.	FIXTURE	MIN.	MINIMUM
ADJ.	ADJUSTABLE	FLR.	FLOOR	MISC.	MISCELLANEOUS
ALT.	ALTERNATE	FND.	FOUNDATION	MTL.	METAL
ALUM./AL	ALUMINUM	FR.	FRAME		
ANCH.	ANCHOR(AGE)	FT.	FOOT/FEET	N/A	NOT APPLICABLE
ANOD.	ANODIZED	FTG.	FOOTING	N.I.C.	NOT IN CONTRACT
A.P.	ACCESS PANEL	FUR.	FURRING	N.T.S.	NOT TO SCALE
APPROX.	APPROXIMATE	FURN.	FURNISHED/FURNITURE	NAT.	NATURAL
				NO.	NUMBER
				NOM.	NOMINAL
B.M.	BENCHMARK	G.W.B.	GYPSUM WALL BOARD	O.A.E.	OR APPROVED EQUAL
B.W.	BOTH WAYS	GA.	GAUGE	O.C.	ON CENTER
BD.	BOARD	GALV.	GALVANIZED	O.D.	OUTSIDE DIAMETER
BLDG.	BUILDING	GKT.	GASKET	OPNG.	OPENING
BLKG.	BLOCKING	GL.	GLASS	OPP.	OPPOSITE
BO	BY OTHERS	GYP.	GYPSUM		
BOT.	BOTTOM			PC	PRE-CAST
BSMT.	BASEMENT	H.B.	HOSE BIBB	PT	PRESSURE TREATED
		H.C.	HOLLOW CORE	PVC	POLYVINYL CHLORIDE
C.B.	CATCH BASIN	H.M.	HOLLOW METAL	PL	PLATE
C.I.	CAST IRON	HVAC	HEATING VENT. & AIR COND.	PLAM	PLASTIC LAMINATE
C.I.P.	CAST IN PLACE	H/C	HANDICAPPED	PLAS.	PLASTER
C.J.	CONTROL JOINT	HDWD.	HARDWOOD	PLG.	PLUMBING
C.M.U.	CONCRETE MASONRY UNIT	HDWR.	HARDWARE	PLYWD.	PLYWOOD
C.T.	CERAMIC TILE	HOR.	HORIZONTAL	PNL.	PANEL
CAB.	CABINET	HSS	HOLLOW STRUCTURAL SECTION	PREFAB.	PREFABRICATE(D)
C/L	CENTERLINE	HT.	HEIGHT	PTD.	PAINT(ED) (OR STAINED)
CLG.	CEILING	HWH	HOT WATER HEATER	PVMT.	PAVEMENT
CL.	CLOSET			Q.T.	QUARRY TILE
CLR.	CLEAR	I.D.	INSIDE DIAMETER	QTY.	QUANTITY
COL.	COLUMN	INCL.	INCLUDE(D) (-ING)		
CONC.	CONCRETE	INSUL.	INSULATE(D) (-ING)	R.	RADIUS/RISER
CONN.	CONNECTION	INT.	INTERIOR	R.B.	RUBBER BASE
COR.	CORRUGATED	INV.	INVERT	R.F.	RUBBER FLOORING
CPT.	CARPET	JC	JANITOR'S CLOSET	R.D.	ROOF DRAIN
CTR.	CENTER	JAN.	JANITOR	R.O.	ROUGH OPENING
		JST.	JOIST	REF.	REFERENCE
D.	DEPTH	JT.	JOINT	REINF.	REINFORCING
D.F.	DRINKING FOUNTAIN			REQ.	REQUIRED
D.H.	DOUBLE HUNG	L.	LENGTH	RM.	ROOM
D.O.	DOOR OPENING	LF	LINEAR FEET	S.S.	STAINLESS STEEL
DIA.	DIAMETER	L.L.	LIVE LOAD	SD	SOAP DISPENSER
DIAG.	DIAGONAL	L.L.H.	LONG LEG HORIZONTAL	STRUCT	STRUCTURAL
DIM.	DIMENSION	L.L.V.	LONG LEG VERTICAL	SQ. FT.	SQUARE FEET
DL.	DEAD LOAD	LAM.	LAMINATE		
DN.	DOWN	LAV.	LAVATORY	TB	THERMALLY BROKEN
DTL.	DETAIL	LOC.	LOCATE(D) (-ION)	TP	TOILET PARTITION
DWG.	DRAWING	LT.GA.	LIGHT GAUGE	TPD	TOILET PAPER DISPENSER
		LTC.	LIGHTING	TYP.	TYPICAL
E.J.	EXPANSION JOINT	LTL.	LINTEL	U.O.N.	UNLESS OTHERWISE NOTED
EA.	EACH	LVR.	LOUVER	V.C.L.	VAPOR CONTROL LAYER
ELEC.	ELECTRIC(AL)			V.I.F.	VERIFY IN FIELD
ELEV.	ELEVATION				
EP.	ELECTRICAL PANEL			WC	WASH CLOSET
EQ.	EQUAL			WRB	WEATHER RESISTIVE BARRIER
EQUIP.	EQUIPMENT			WS	WINDOW SHADE
EXP.	EXPOSED				
EXTG.	EXISTING				
EXT.	EXTERIOR				

DRAWING SYMBOLS

	INTERIOR ELEVATION REFERENCE		ELEVATION MARK
	BUILDING SECTION REFERENCE		FLOOR TRANSITION
	WALL SECTION REFERENCE		CENTERLINE
	DETAIL REFERENCE		BREAK LINE
	EXTERIOR ELEVATION REFERENCE		ASSEMBLY LEADER
	GRID BUBBLE		REVISION CLOUD & DELTA
	SPOT ELEVATION-PLAN		WALL TYPE DESIGNATION
	ROOM DESIGNATION		DOOR DESIGNATION
	NORTH ARROW		WINDOW DESIGNATION
			KEYNOTE REFERENCE
			FINISH REFERENCE
			ENLARGED DETAIL REFERENCE

SECTION DETAILS AND MATERIALS LEGEND

	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		BLOCKING
	RIGID FOAM INSULATION		PLYWOOD
	FILL INSULATION		
	RIGID MINERAL WOOL INSULATION		
	BATT INSULATION		



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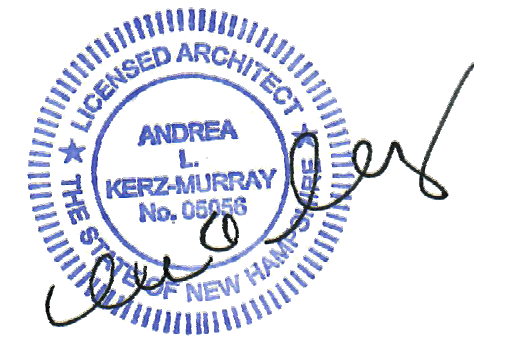
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DATE ISSUED: 05/15/23
Drawn: JG
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REVISIONS:

#	Date	Description

PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

LEGEND &
ARCHITECTURAL
INFORMATION

A-0.1

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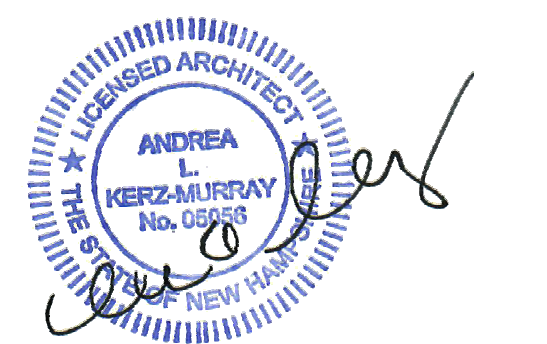
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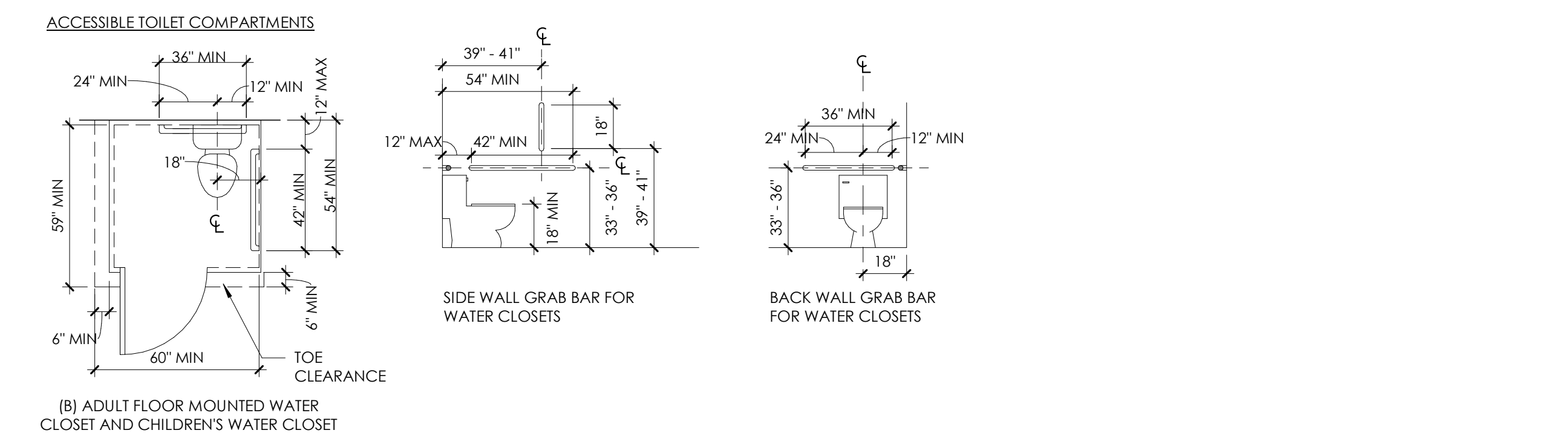
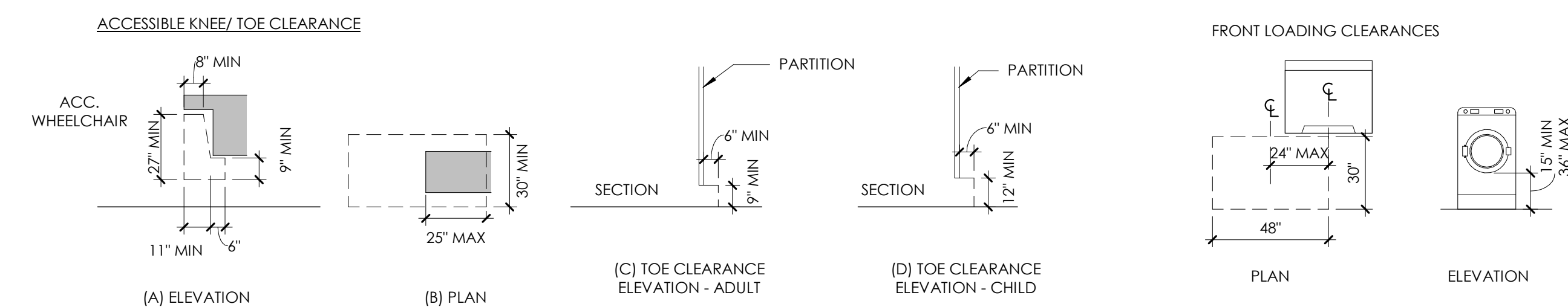
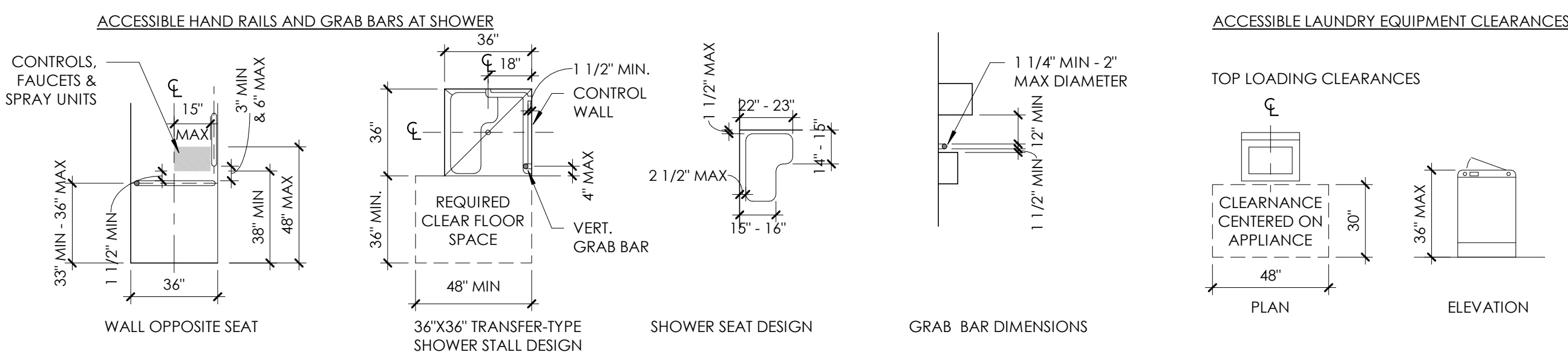
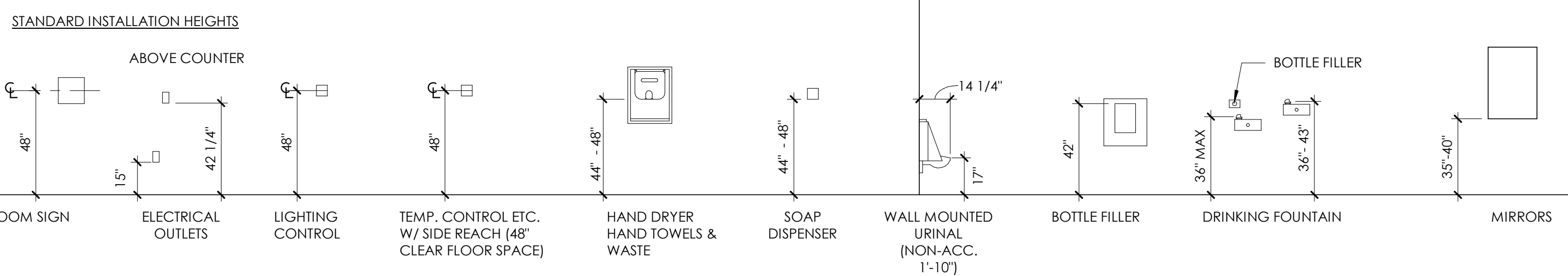
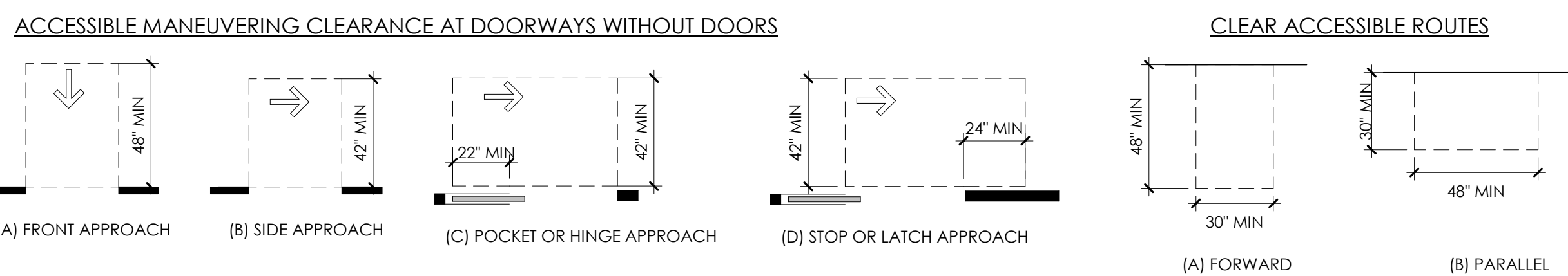
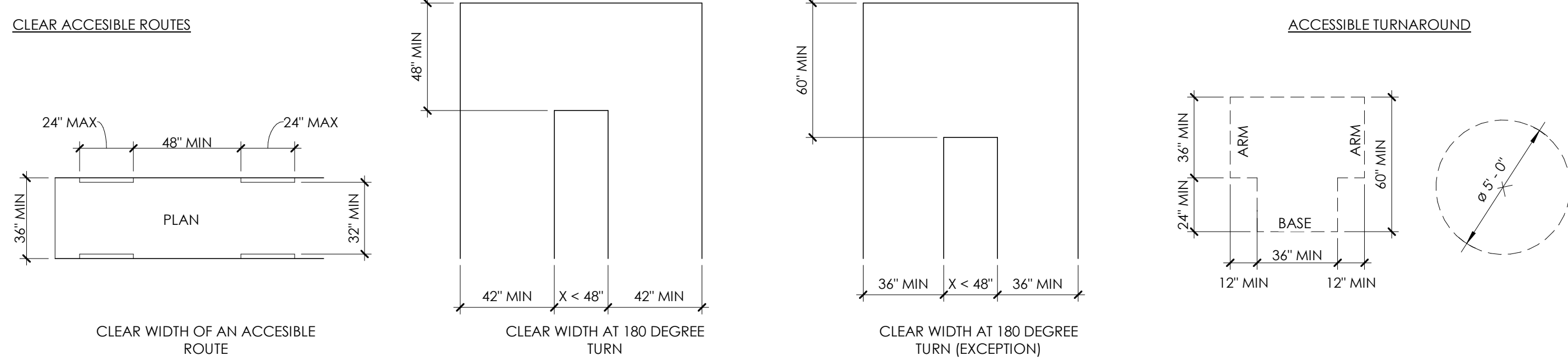
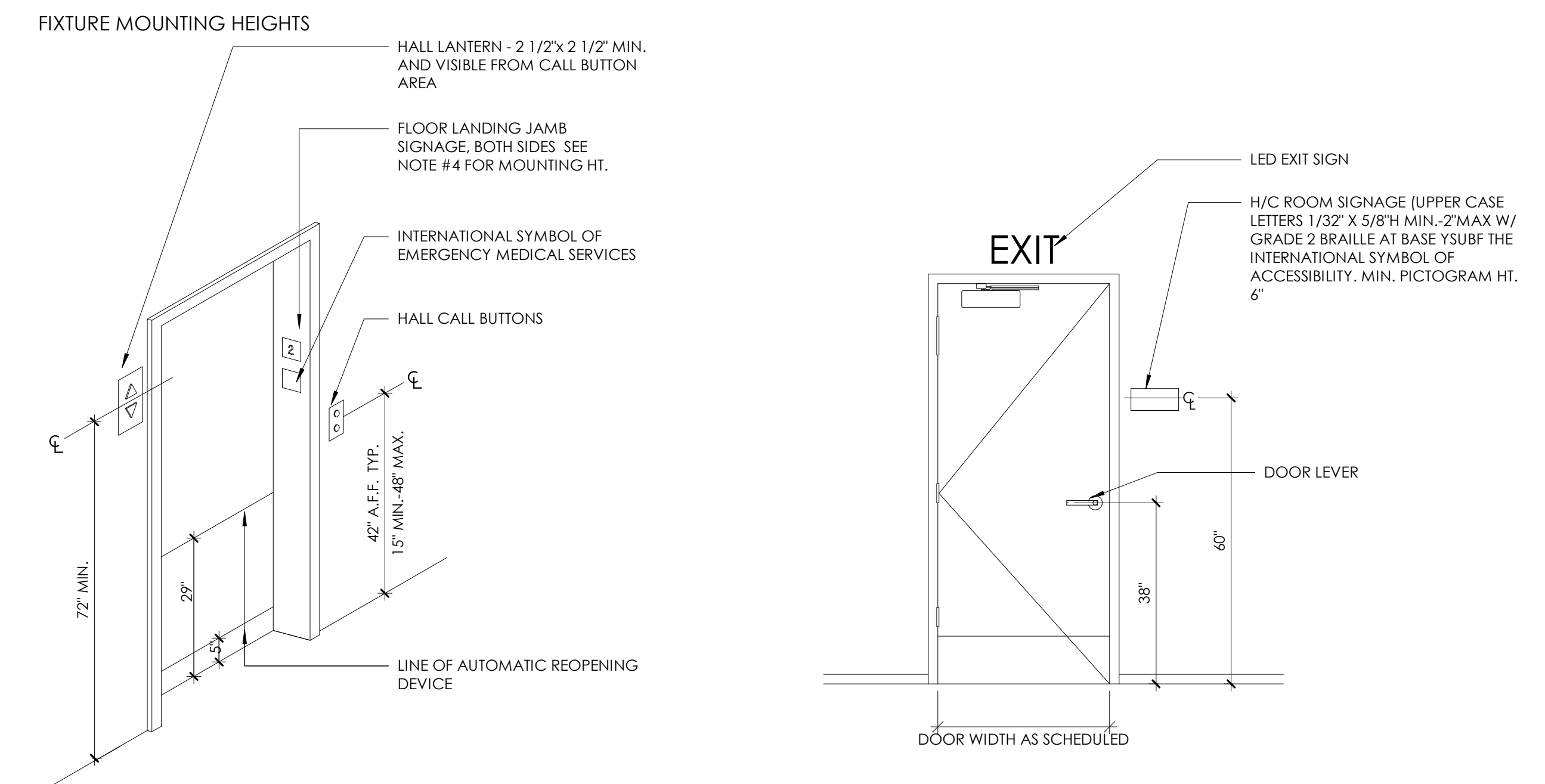
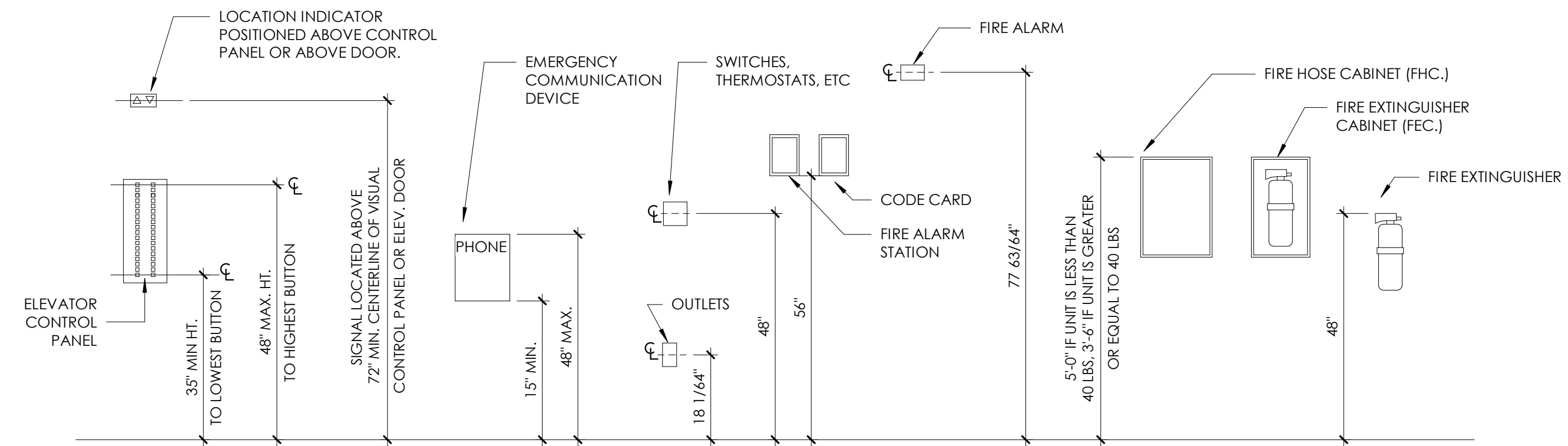
**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**TYPICAL
ACCESSIBILITY
DETAILS**

A-0.2

NOTE: WHEREVER POSSIBLE, WALL-MOUNTED DEVICES SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. IF UNSURE ABOUT ALIGNMENT, CONTRACTOR SHALL COORDINATE WITH ARCHITECT.



? Accessible Use Standards
1/4" = 1'-0"

? Accessible Doors and Clearances
1/4" = 1'-0"

Area Type Schedule		
Name	Area	Occupant Load
Basement - Dorms		
Storage	1735 SF	6 Occupants
Storage	3417 SF	13 Occupants
First Floor - Dorms		
Assembly A-3	1685 SF	127 Occupants
Dorm R-2	1388 SF	26 Occupants
Dorm R-2	2256 SF	36 Occupants
Residential R-3	1197 SF	6 Occupants
Residential R-3	1140 SF	6 Occupants
Residential R-3	1407 SF	6 Occupants
Second Floor - Dorms		
Assembly A-3	497 SF	28 Occupants
Dorm R-2	1314 SF	26 Occupants
Dorm R-2	2798 SF	55 Occupants
Residential R-3	1065 SF	6 Occupants
Residential R-3	1140 SF	6 Occupants
Residential R-3	1384 SF	6 Occupants

PROGRAM SCHEDULE - SECOND FLOOR	
KILTON DORM:	
COMMON AREAS:	445 SF
(1) DORM SINGLES:	147 SF
(6) DORM DOUBLES:	1,241 SF
(1) DORM BATHROOM:	299 SF
TOTAL NET SQUARE FOOTAGE:	2,162 SF
TOTAL GROSS SQUARE FOOTAGE:	3,903 SF
NET / GROSS RATIO	.55
NUMBER OF DORM BEDS	13 BEDS
KILTON FACULTY RESIDENCE A:	1,284 SF
KITON FACULTY RESIDENCE B:	1,065 SF

PROGRAM SCHEDULE - EXISTING	
KILTON EXISTING DORM (FLOORS 1 & 2):	
COMMON AREAS (2) LOUNGES:	0 SF
(5) DORM SINGLES:	691 SF
(3) DORM DOUBLES:	500 SF
(3) DORM BATHROOM:	266 SF
TOTAL NET SQUARE FOOTAGE:	1,457 SF
TOTAL GROSS SQUARE FOOTAGE:	2,644 SF
NET / GROSS SF RATIO	.55
NUMBER OF DORM BEDS	11 BEDS
EXISTING FACULTY RESIDENCE	2,280 SF

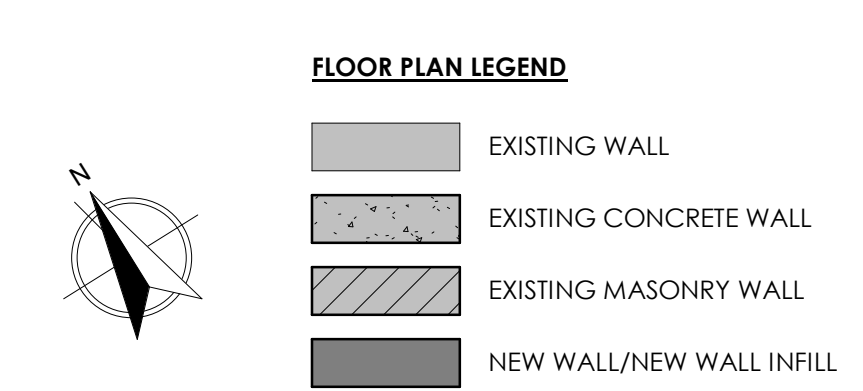
OCCUPANCY NOTES:
 -FLOOR AREA ALLOWANCES PER OCCUPANT ARE PER IBC TABLE 1004.5:
 -ASSEMBLY A3 (UNCONCENTRATED) AS PER IBC 303.4: 15 SF NET/OCCUPANT
 -RESIDENTIAL R2 (DORMS) AS PER IBC 310.3: 50 SF GROSS/OCCUPANT
 -RESIDENTIAL R3 (RESIDENCE) AS PER IBC 310.4: 200 SF GROSS/OCCUPANT
 -ACCESSORY STORAGE AS PER IBC 311.1.1: 300 SF GROSS/OCCUPANT
 -LAUNDRY (INCIDENTAL) PER IBC 509.2, 509.3 AND TABLE 509.

GENERAL FIREPROTECTION NOTES:
 -ALL BUILDINGS IN THIS PROJECT (NEW FACULTY RESIDENCES, NEW DORMS, EXISTING DORMS AND EXISTING FACULTY RESIDENCES) WILL BE PROTECTED THROUGH-OUT WITH A NFPA 13 AUTOMATIC SPRINKLER SYSTEM (SEE SPECIFICATIONS SECTION 210000 FOR PERFORMANCE SPECIFICATIONS) AND WILL BE PROVIDED WITH A FIRE AND SMOKE ALARM SYSTEM - SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 -THE EXTERIOR VENTED RANGE HOOD IN KITCHEN 120 SHALL BE EQUIPPED WITH AN APPROVED AUTOMATIC FIRE-EXTINGUISHING SYSTEM COMPLYING WITH IBC SECTION 904.13.1.1

PROGRAM SCHEDULE - TOTAL	
KILTON DORM:	
TOTAL NET SQUARE FOOTAGE:	7,672 SF
TOTAL GROSS SQUARE FOOTAGE:	12,218 SF
NET / GROSS RATIO	.63
NUMBER OF DORM BEDS	20 BEDS
KILTON FACULTY RESIDENCE A:	3,685 SF
KITON FACULTY RESIDENCE B:	3,621 SF

PROGRAM SCHEDULE - FIRST FLOOR	
KILTON DORM:	
COMMON AREAS:	1,574 SF
(1) DORM SINGLES:	147 SF
(3) DORM DOUBLES:	437 SF
(3) DORM BATHROOM:	275 SF
TOTAL NET SQUARE FOOTAGE:	2,433 SF
TOTAL GROSS SQUARE FOOTAGE:	3,890 SF
NET / GROSS SF RATIO	.63
NUMBER OF DORM BEDS	7 BEDS
KILTON FACULTY RESIDENCE A GROSS:	1,304 SF
KITON FACULTY RESIDENCE B GROSS:	1,339 SF

PROGRAM SCHEDULE - BASEMENT	
KILTON DORM:	
COMMON SPACES	296 SF
STORAGE/MECHANICAL	2,781 SF
TOTAL NET SQUARE FOOTAGE:	3,077 SF
TOTAL GROSS SQUARE FOOTAGE:	3,848 SF
NET / GROSS SF RATIO	.80
KILTON FACULTY RESIDENCE A GROSS:	1,293 SF
KILTON FACULTY RESIDENCE B GROSS:	1,273 SF
KILTON EXISTING BASEMENT GROSS:	1,735 SF



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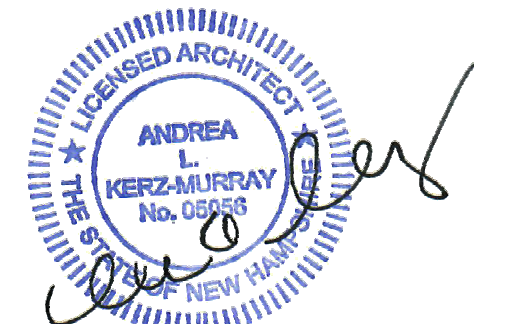
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1	04/12/23	Addendum 1; Bid Set 1
2	05/15/23	Scope Changes to Bid Set #1

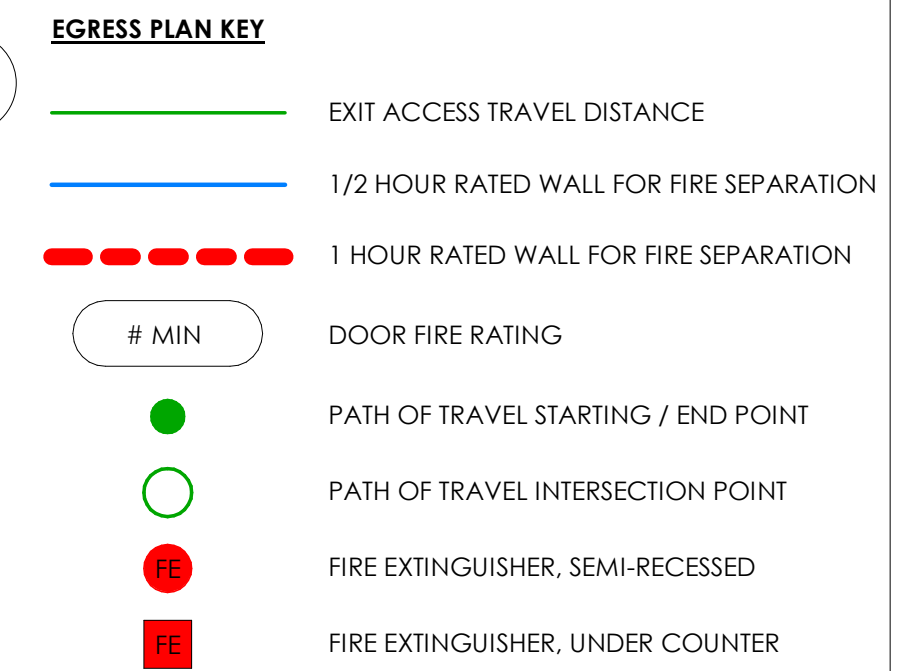
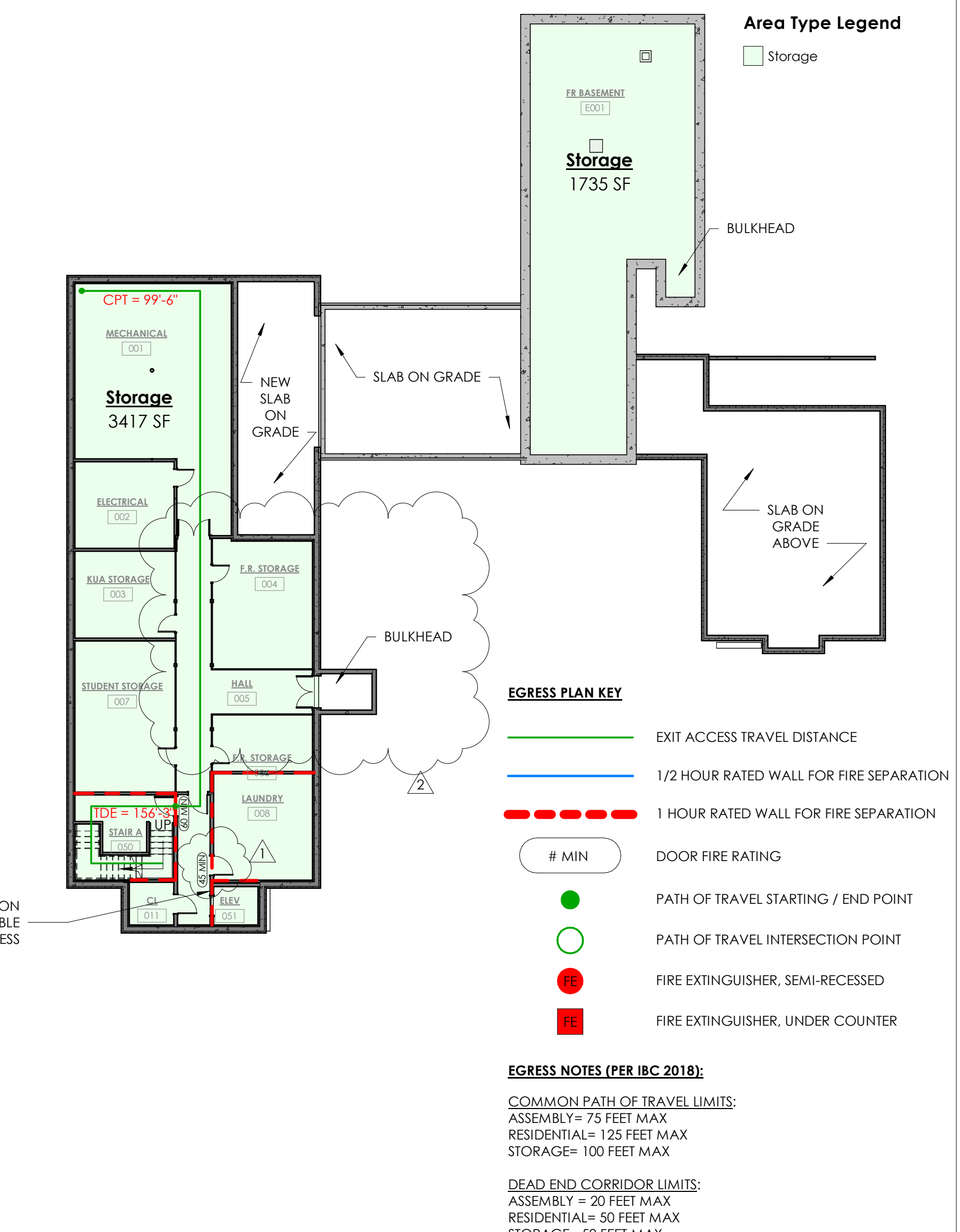
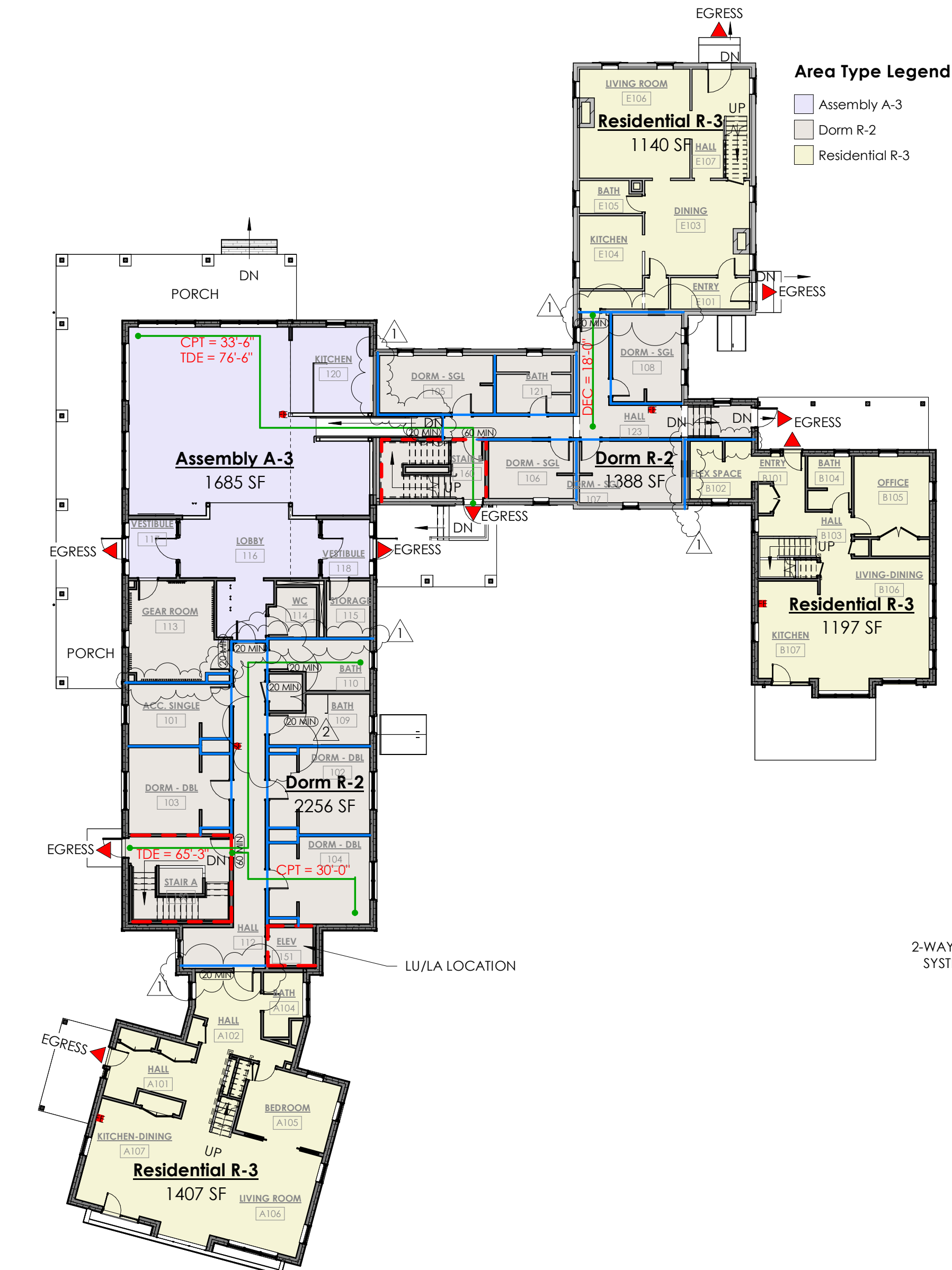
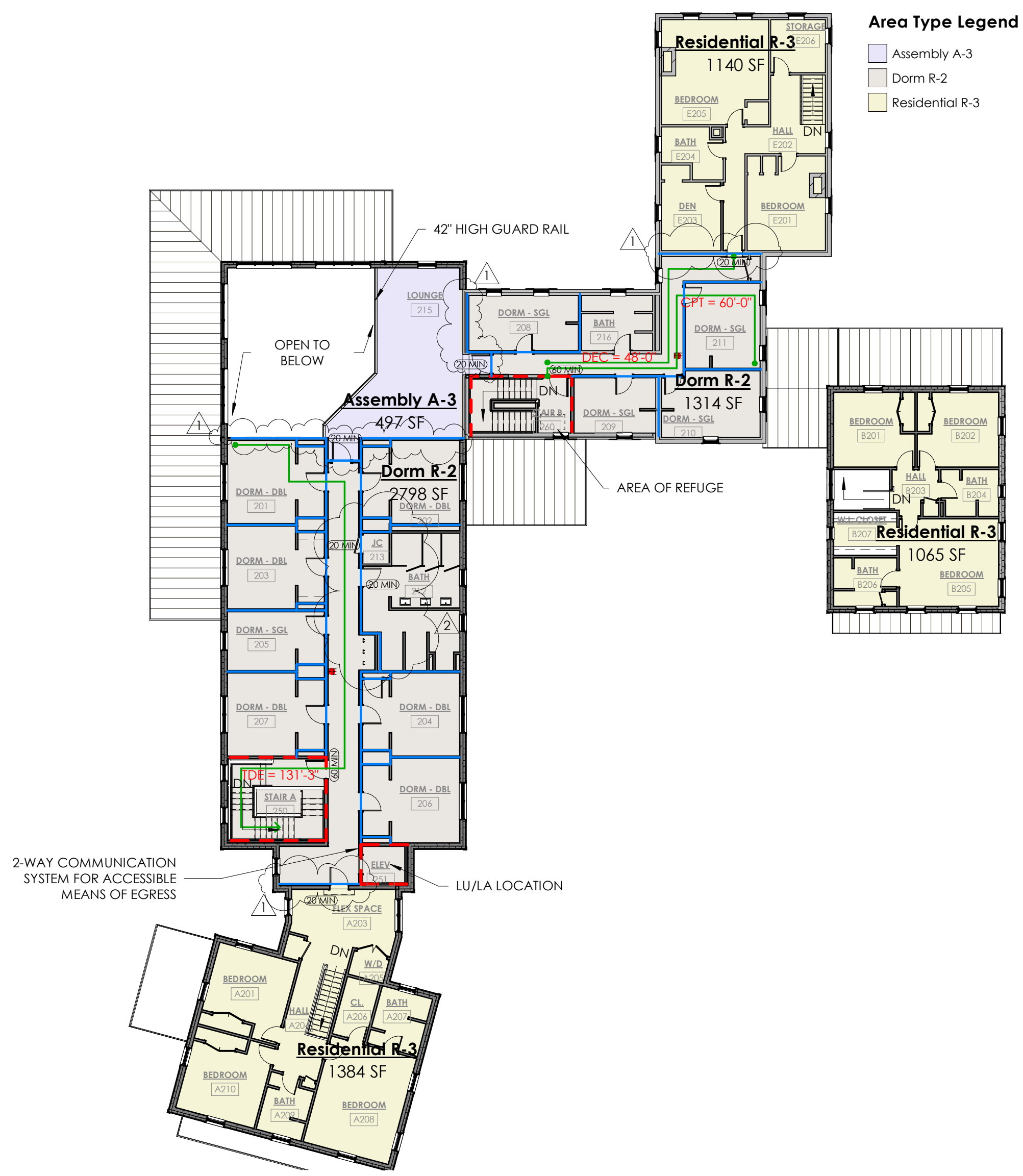
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 DORMITORIES

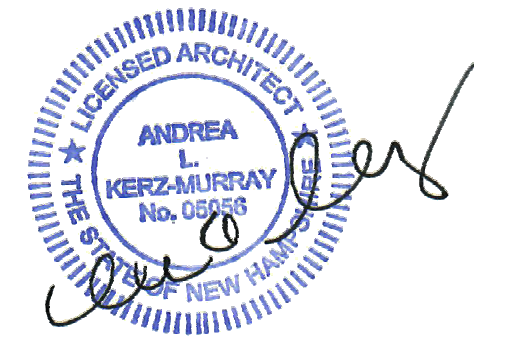
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KILTON
 FIRE EGRESS
 PLANS

AK-0.4



EGRESS NOTES (PER IBC 2018):
COMMON PATH OF TRAVEL LIMITS:
 ASSEMBLY = 75 FEET MAX
 RESIDENTIAL = 125 FEET MAX
 STORAGE = 100 FEET MAX
DEAD END CORRIDOR LIMITS:
 ASSEMBLY = 20 FEET MAX
 RESIDENTIAL = 50 FEET MAX
 STORAGE = 50 FEET MAX
EXIT ACCESS TRAVEL DISTANCE LIMITS:
 ASSEMBLY = 250 FEET MAX
 RESIDENTIAL = 250 FEET MAX
 STORAGE = 250 FEET MAX
CPT = COMMON PATH OF TRAVEL
TDE = TOTAL DISTANCE TO EXIT
DEC = DEAD END CORRIDOR



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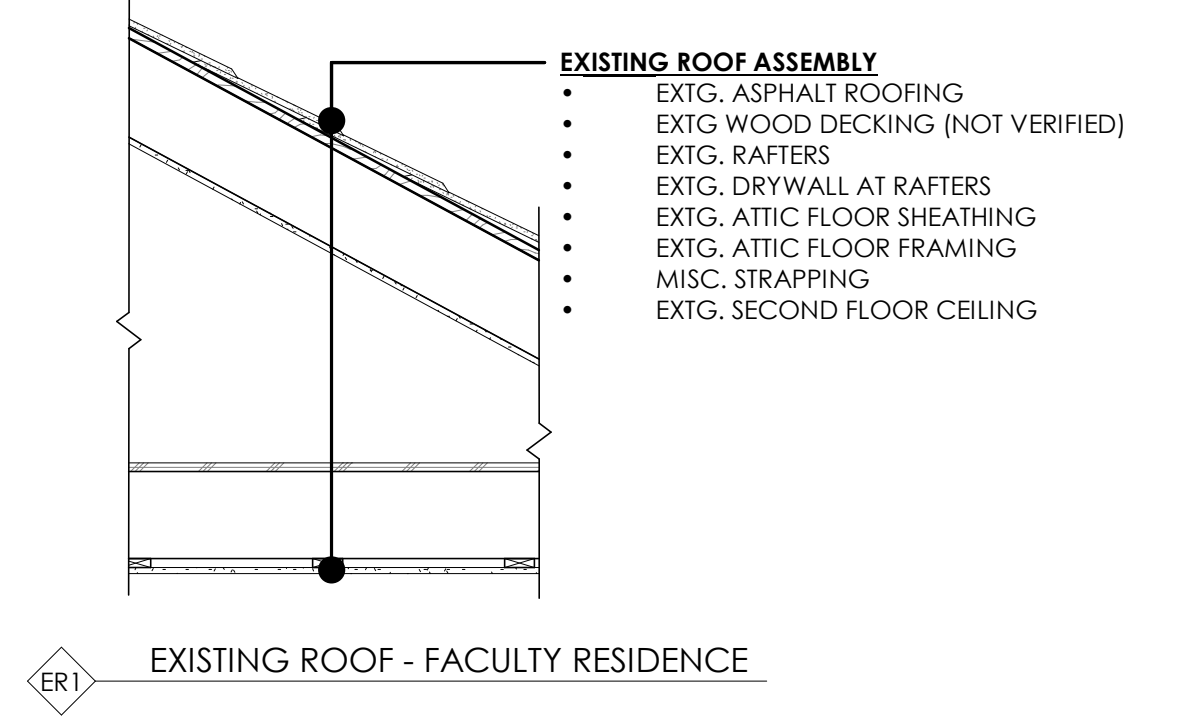
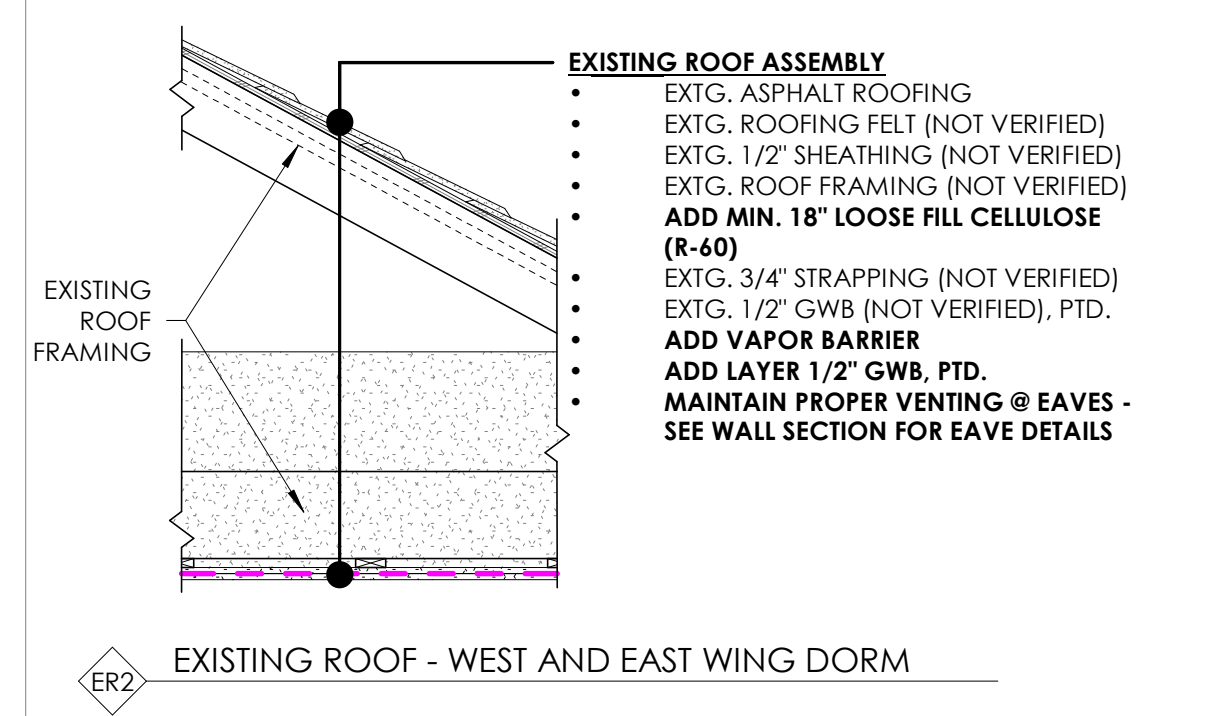
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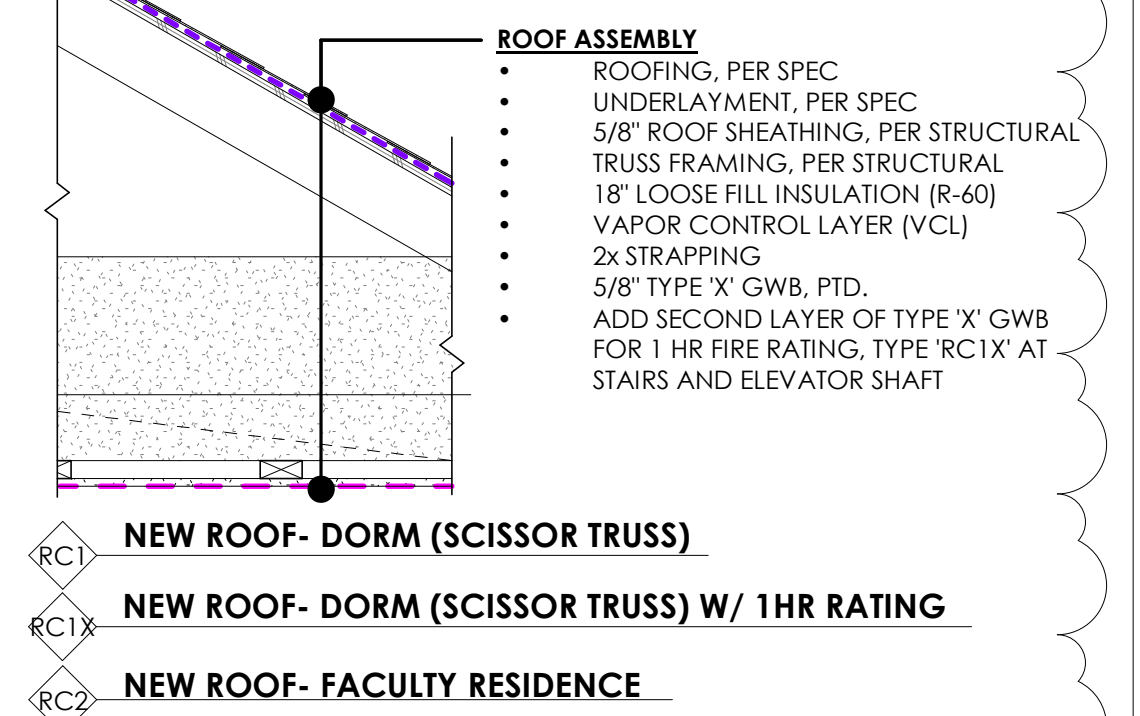
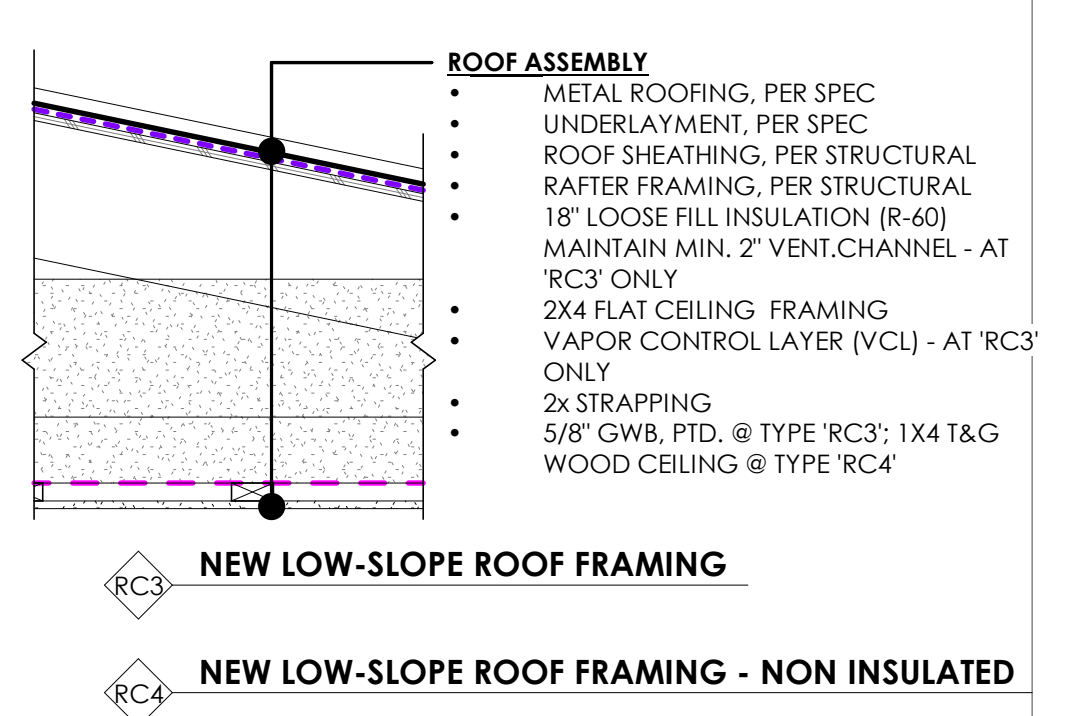
KILTON
ASSEMBLY TYPES

AK-0.5

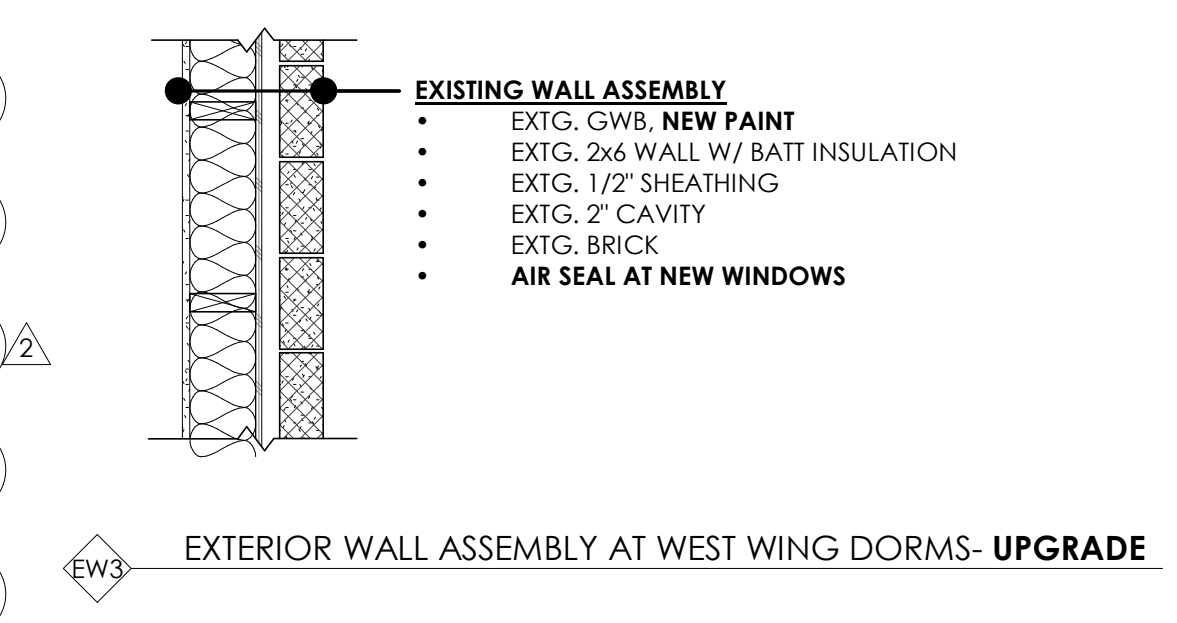
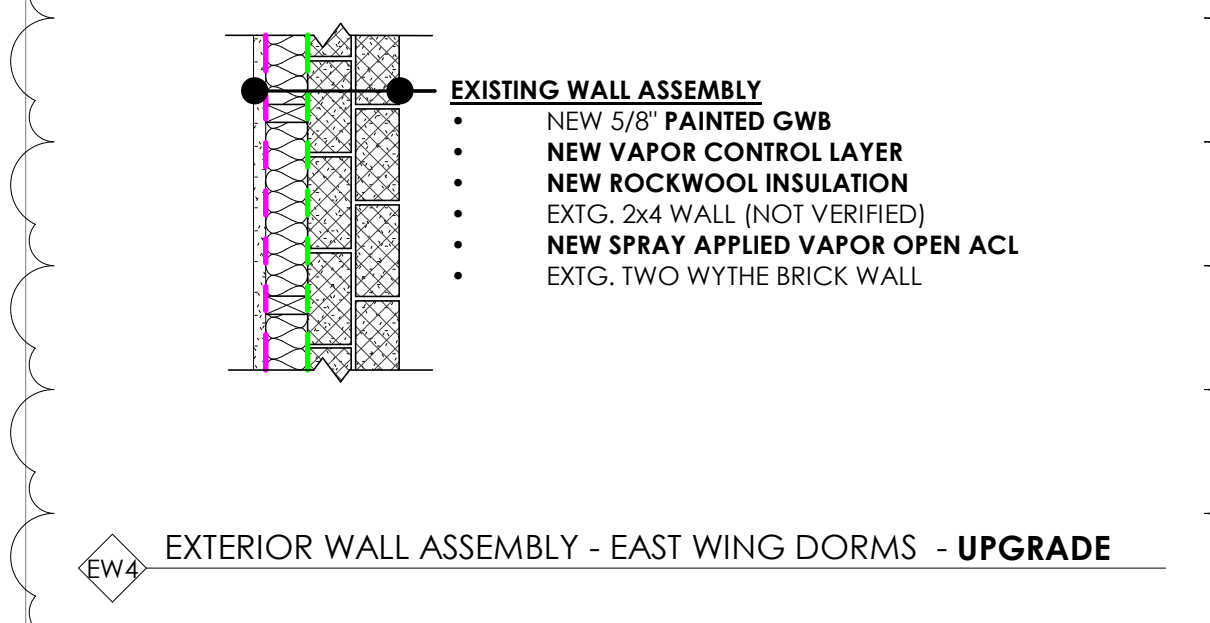
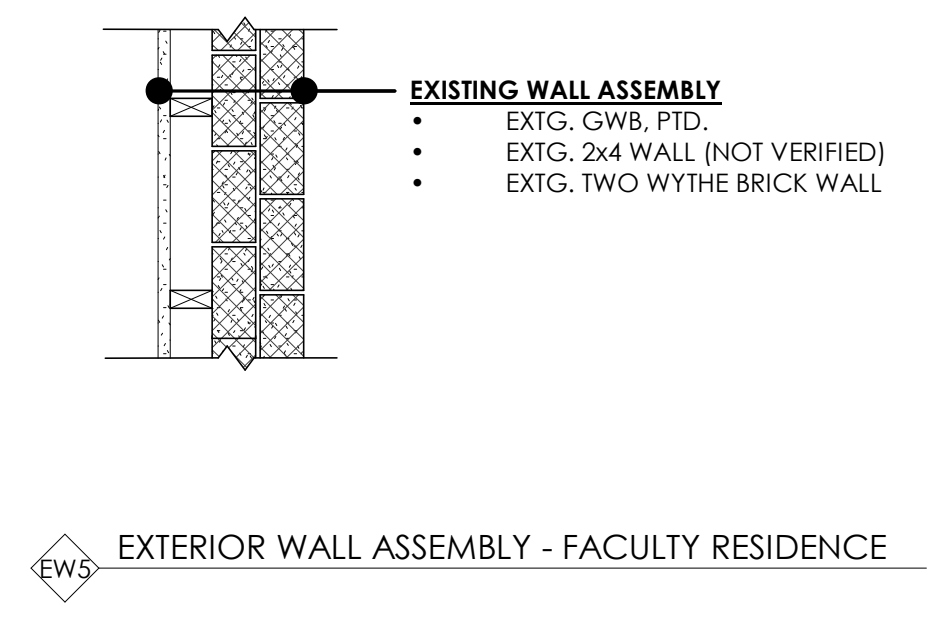
EXISTING ROOF ASSEMBLIES



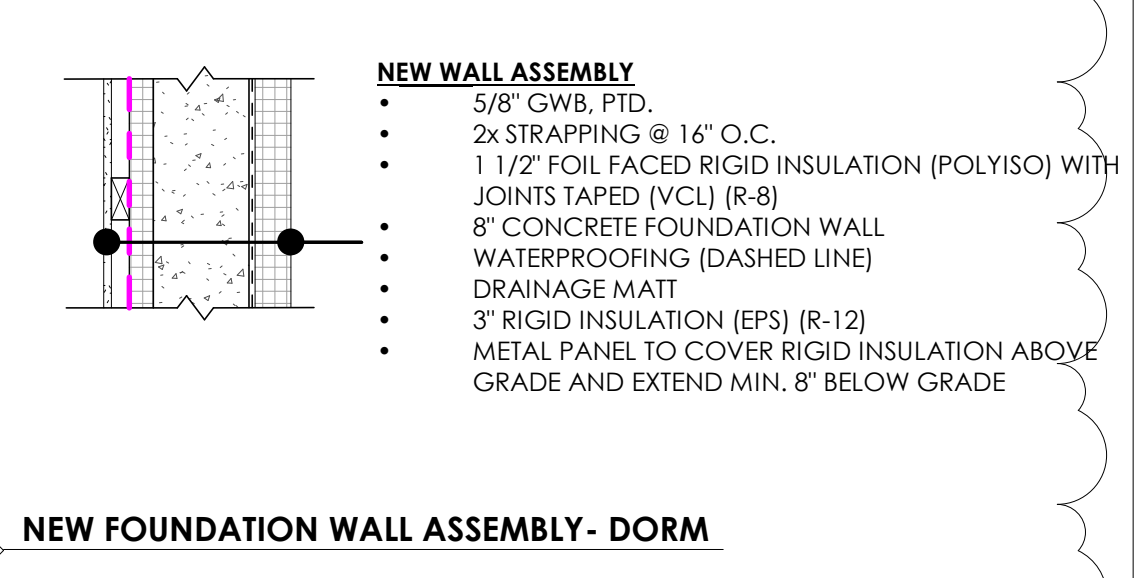
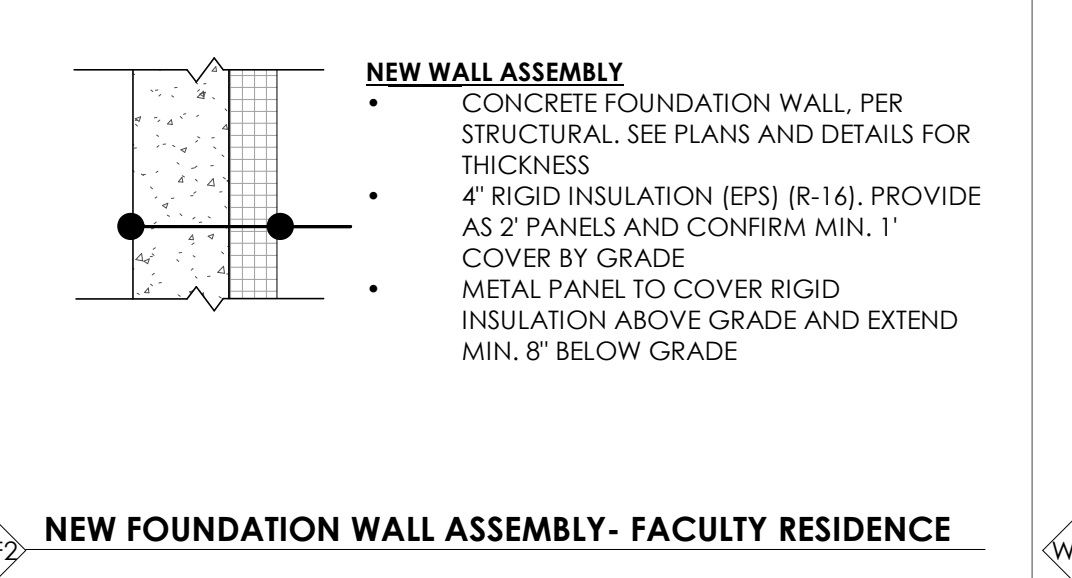
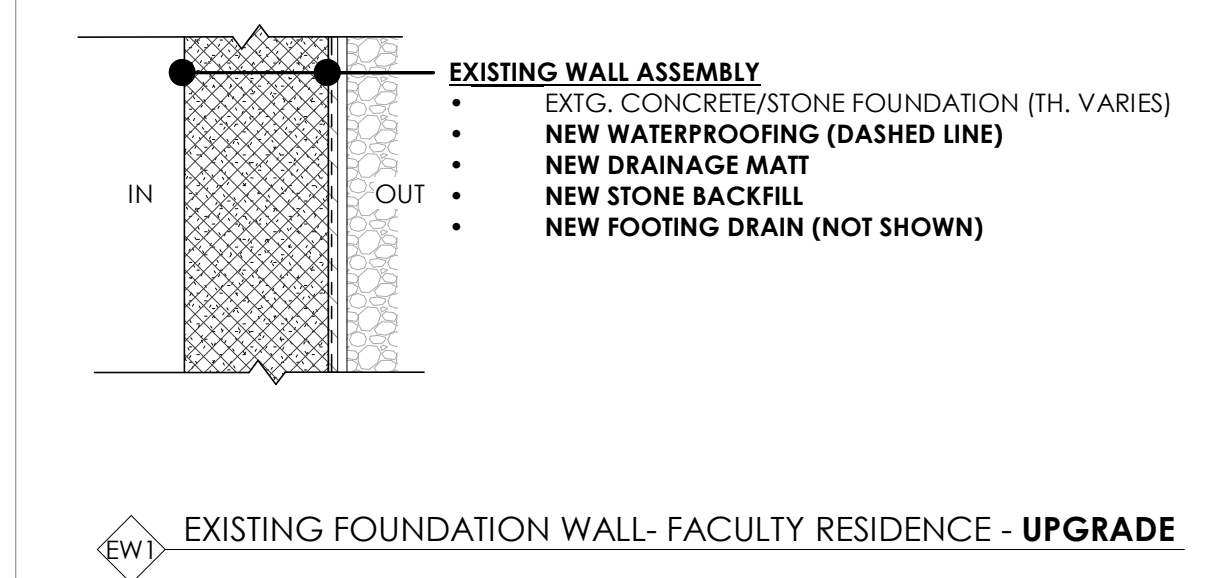
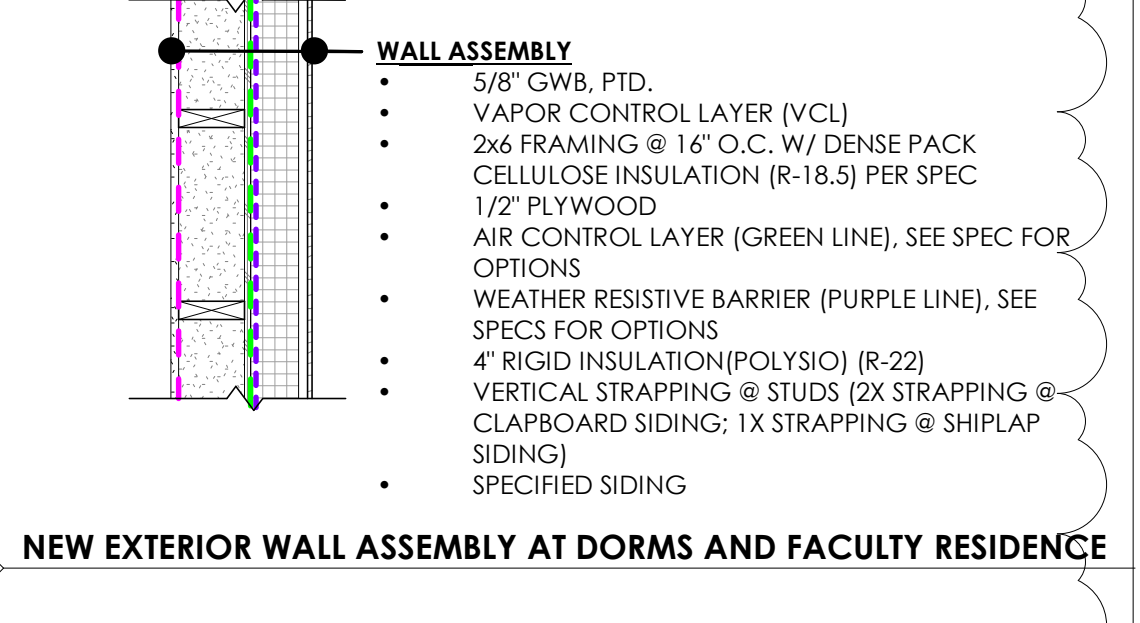
NEW ROOF ASSEMBLIES



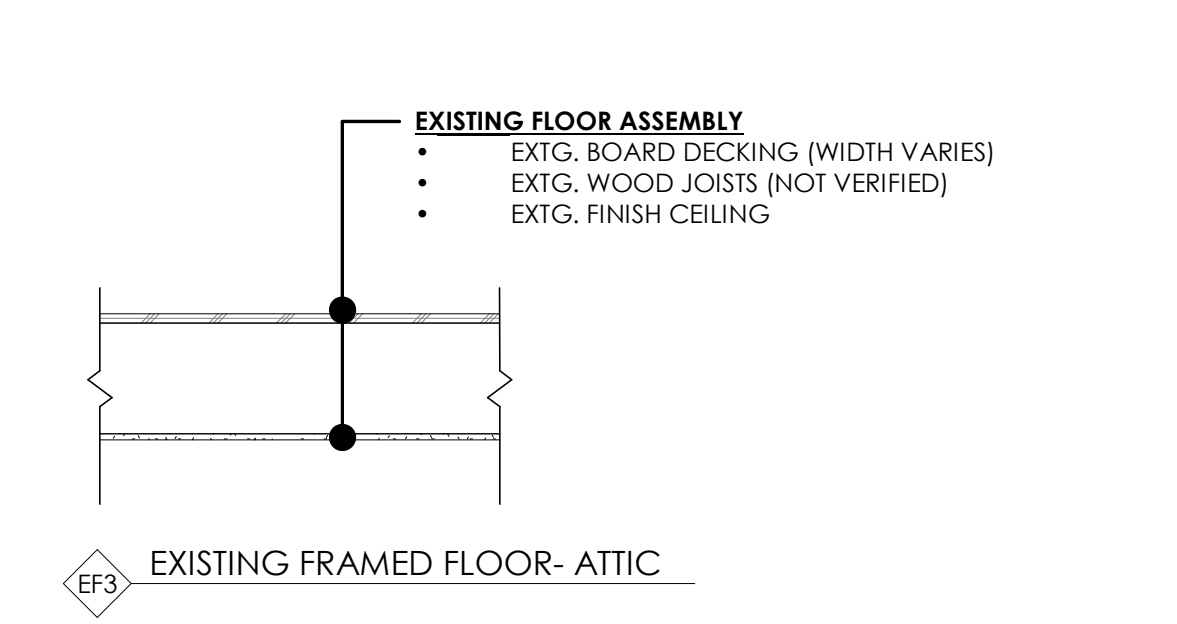
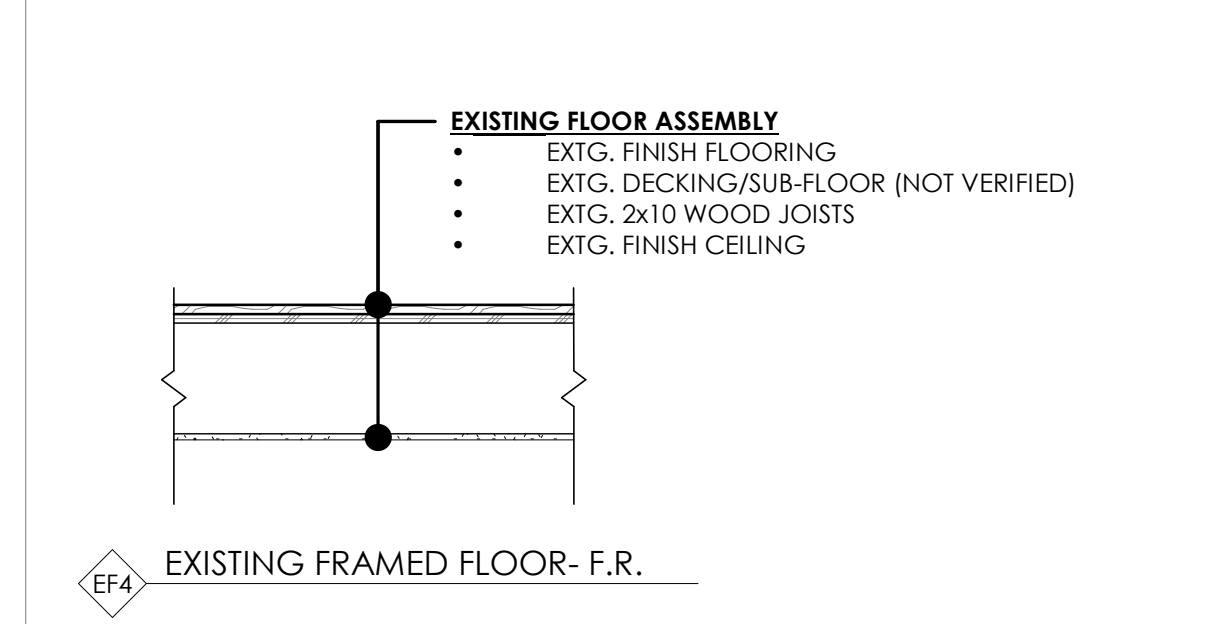
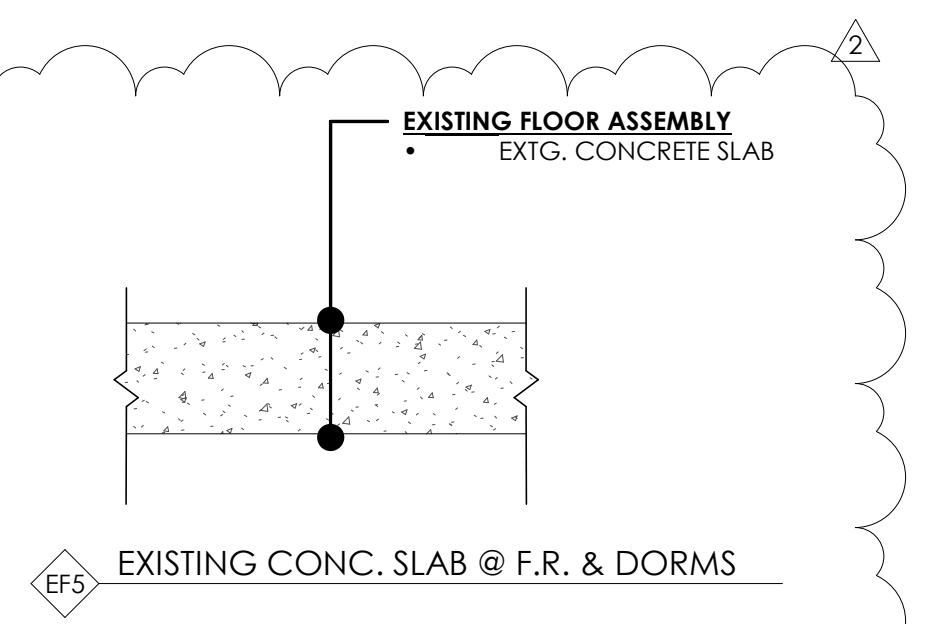
EXISTING EXTERIOR WALL ASSEMBLIES



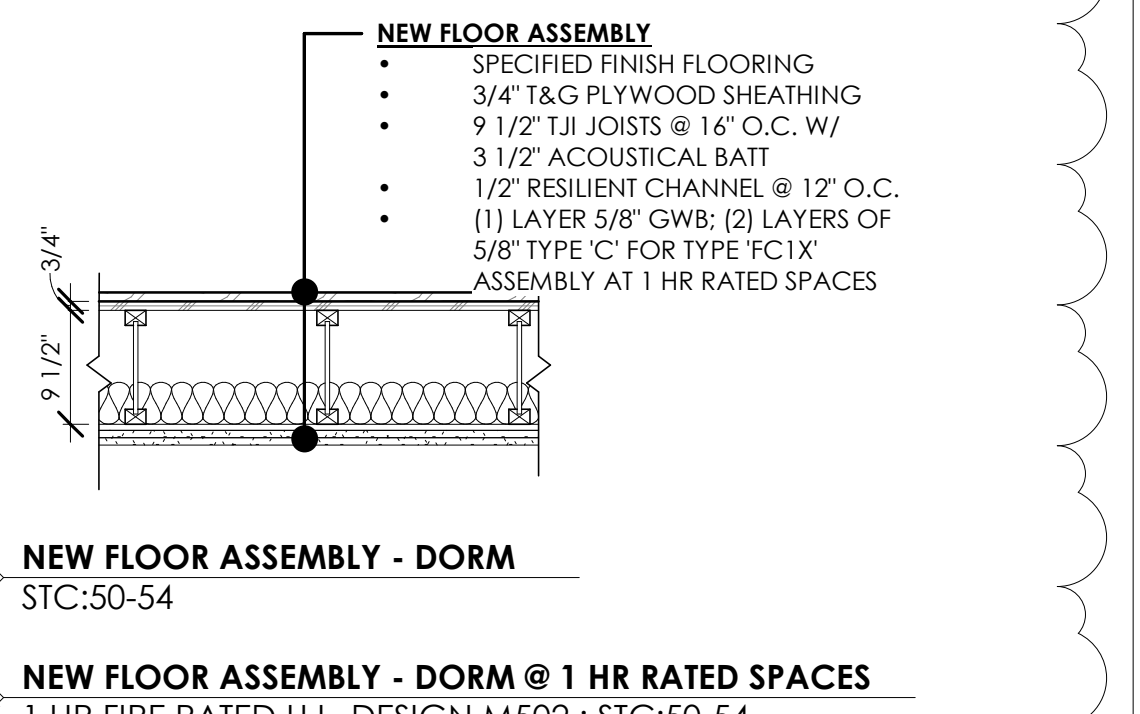
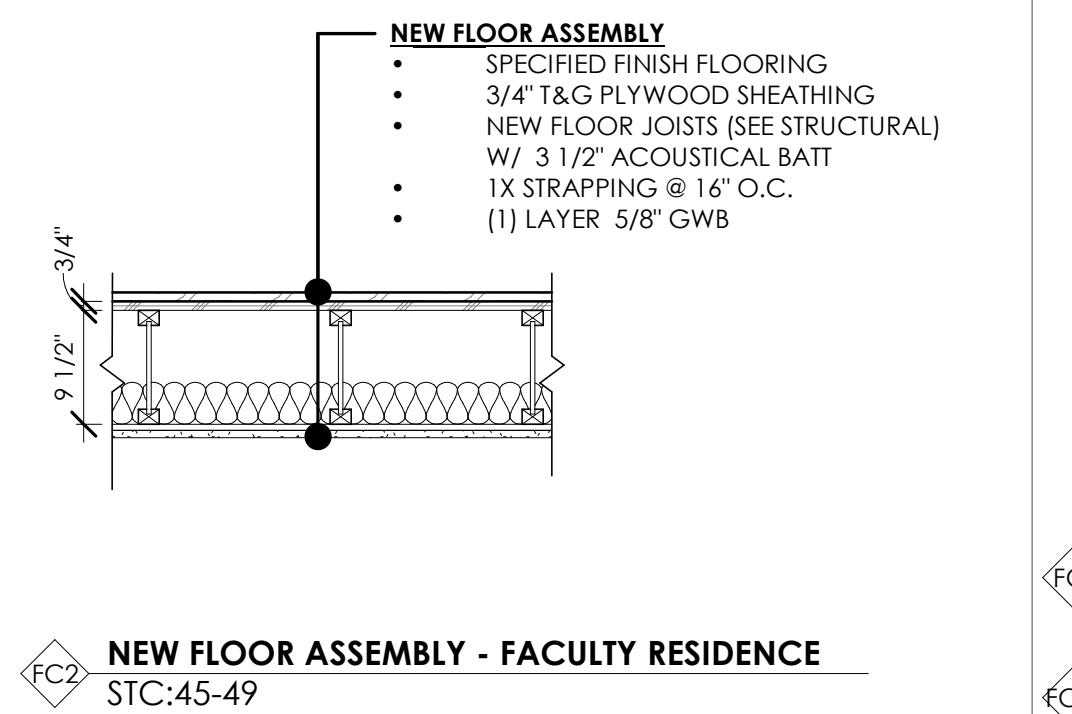
NEW EXTERIOR WALL ASSEMBLIES



EXISTING FLOOR ASSEMBLIES

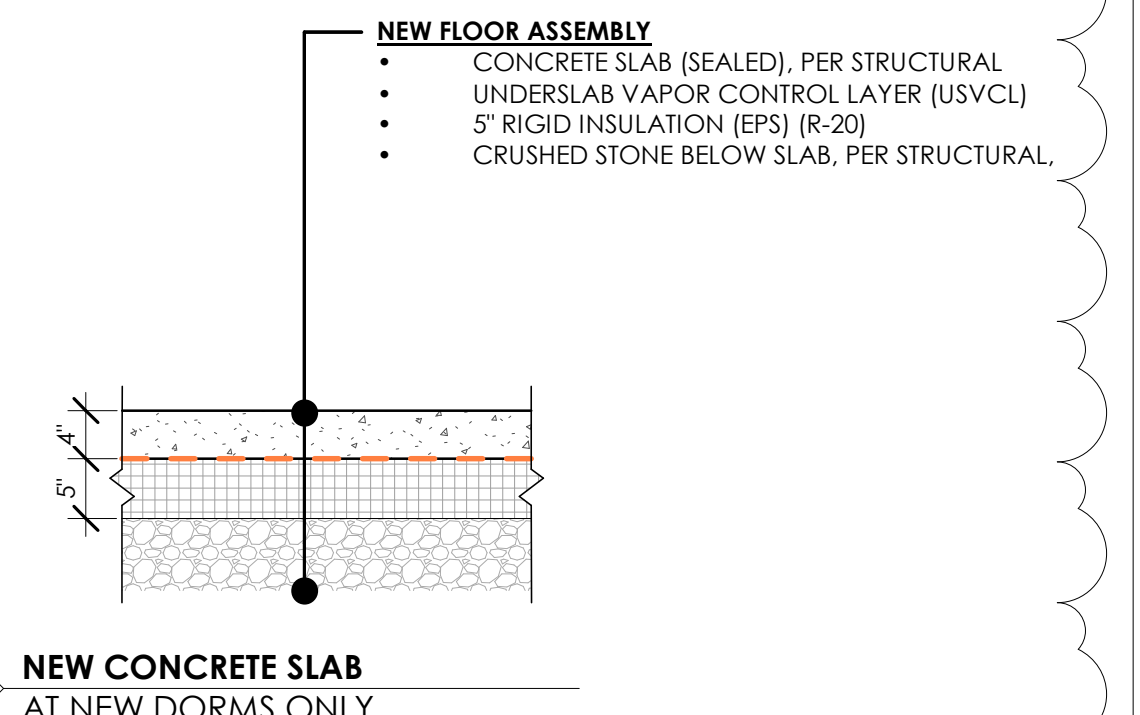
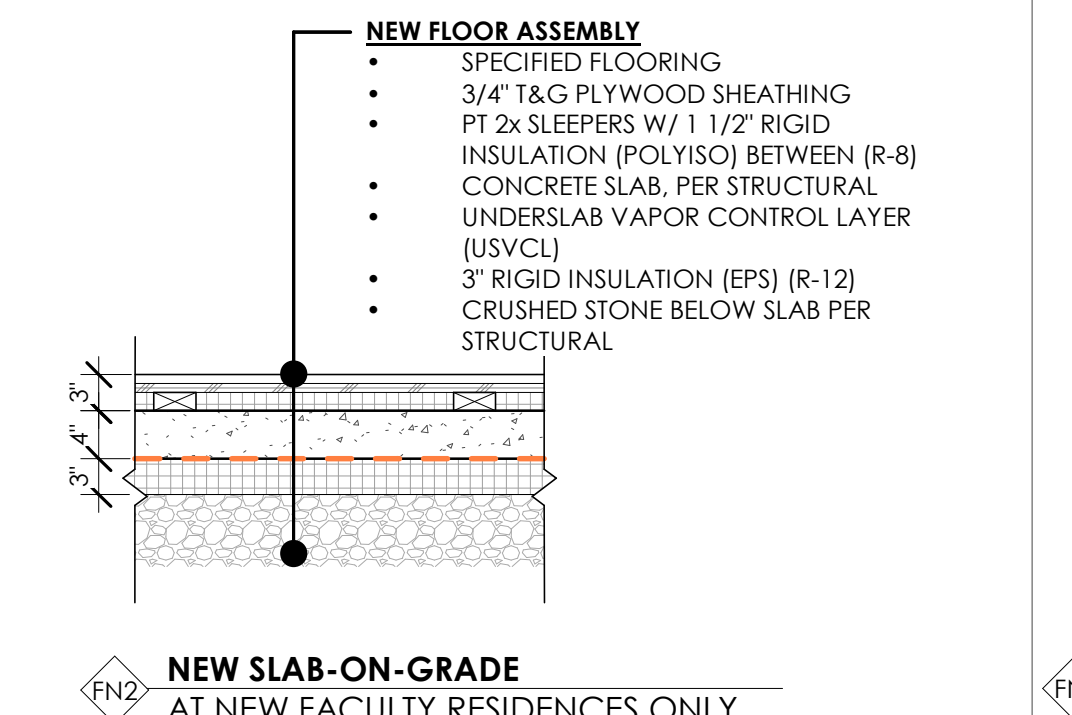
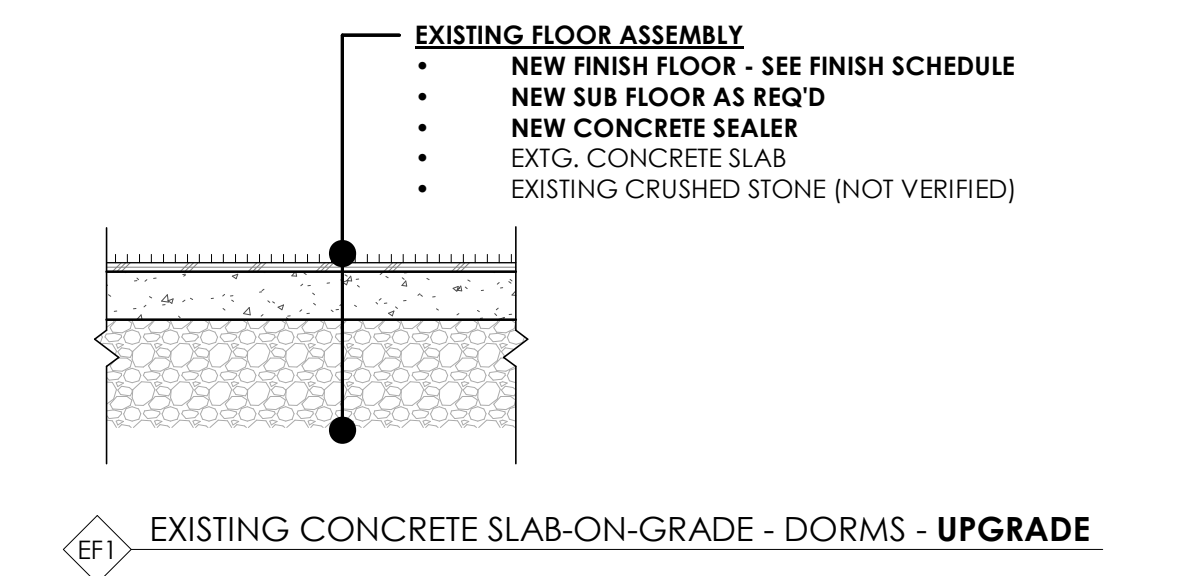
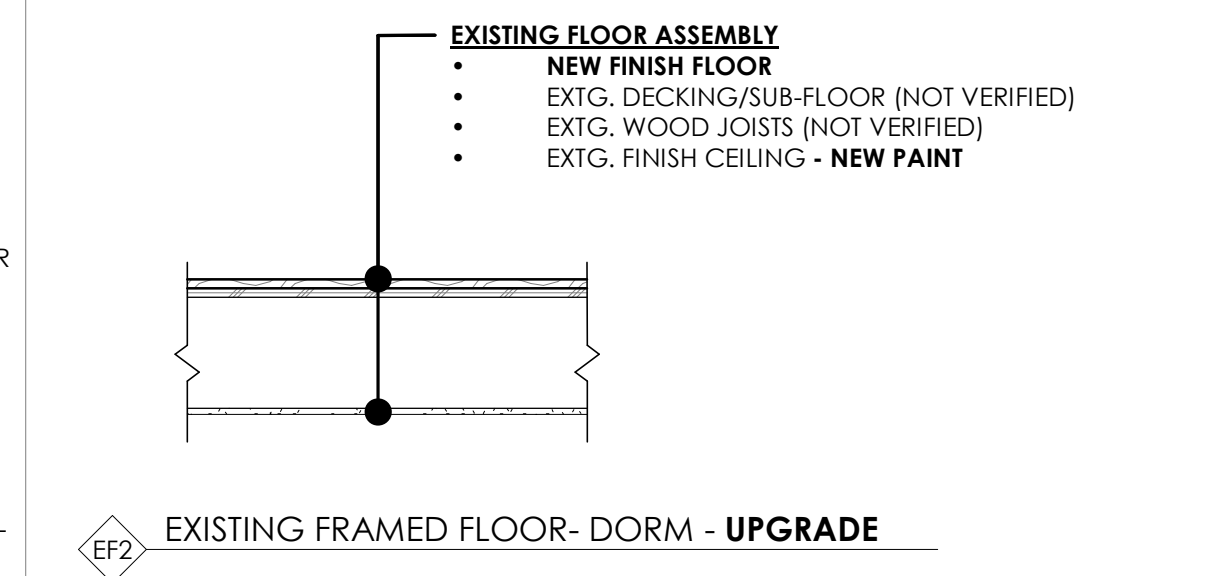


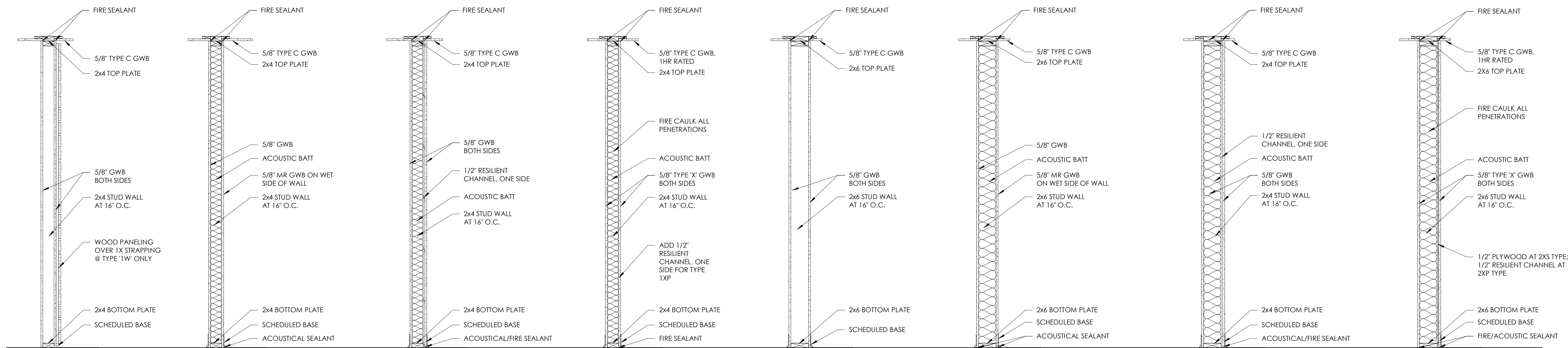
NEW FLOOR ASSEMBLIES



MATERIALS LEGEND

	WEATHER RESISTIVE BARRIER (WRB)		BRICK
	VAPOR CONTROL LAYER (VCL)		CONCRETE
	AIR CONTROL LAYER (ACL)		DIMENSIONAL LUMBER
	UNDER SLAB VAPOR CONTROL LAYER		BATT INSULATION
	TAPE/ SELF ADHERING WATERPROOF MEMBRANE (SAWM)		RIGID MINERAL WOOL
	PLYWOOD		
	RIGID FOAM INSULATION		
	FILL INSULATION		

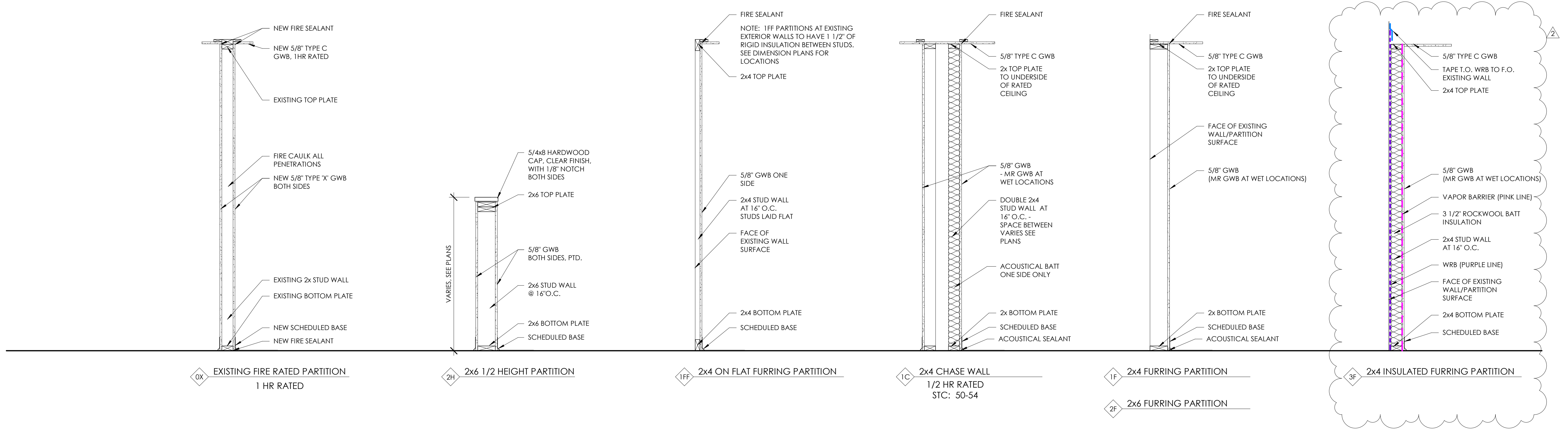




- 1 2x4 PARTITION
- 1M 2x4 MOISTURE PARTITION
STC: 35-39
- 1P 2x4 PARTY PARTITION
1/2 HR RATED
STC: 45-49
WHERE TYPE "1P" PARTITION IS LOCATED AT A BATHROOM, MOISTURE-RESISTANT GWB SHALL BE USED ON THE WET SIDE OF THE WALL

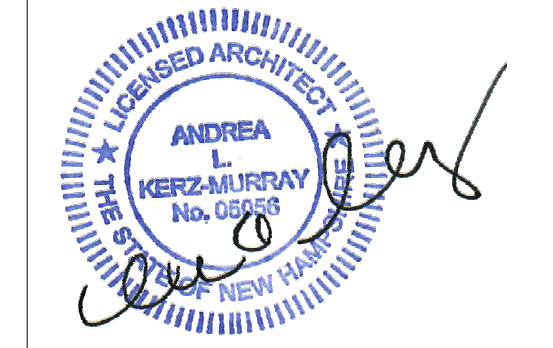
RESILIENT CHANNEL SHALL ALWAYS BE ON THE HALLWAY OR BATHROOM SIDE. WHERE TWO DORM ROOMS ABUT, 1/2" CHANNEL SHALL BE ON THE NORTH SIDE
- 1X 2x4 FIRE RATED PARTITION
1 HR RATED
UL DESIGN U305
STC: 35-39
- 1XS 2x4 FIRE RATED SHEAR PARTITION
SAME AS 1X PLUS LAYER OF 1/2" PLYWD SHEATHING ON THE WEST SIDE OF FRAMING
- 1XP 2x4 PARTY / CORRIDOR
SAME AS 1X PLUS ADD 1/2" RESILIENT CHANNEL
STC: 45-49
- 2 2x6 PARTITION
- 2M 2x6 MOISTURE PARTITION
- 2P 2x6 CORRIDOR PARTITION
1/2 HR RATED
STC: 45-49
WHERE TYPE "2P" PARTITION IS LOCATED AT A BATHROOM, MOISTURE-RESISTANT GWB SHALL BE USED ON THE WET SIDE OF THE WALL

RESILIENT CHANNEL SHALL ALWAYS BE ON THE HALLWAY SIDE
- 2X 2x6 FIRE RATED PARTITION
1 HR RATED
UL DESIGN U305
STC: 35-39
- 2XS 2x6 FIRE RATED SHEAR PARTITION
WITH 1/2" PLYWOOD
1 HR RATED
UL DESIGN U305
STC: 45-49
- 2XP 2x6 FIRE RATED PARTITION
SAME AS 2X EXCEPT WITH 1/2" RESILIENT CHANNEL



Interior Partition Types
3/4" = 1'-0"

GENERAL ACOUSTICAL NOTE:
 1. ALL WALLS BETWEEN DORM ROOMS; BETWEEN DORM ROOMS AND BATHROOMS; BETWEEN DORM ROOMS AND CORRIDORS: TO RECEIVE ACOUSTICAL BATT AND RESILIENT CHANNEL.
 2. RESILIENT CHANNELS REQUIRED IN SOME LOCATION TO ALLOW WALLS TO FLUSH OUT WITH ACOUSTICALLY TREATED WALLS.



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#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

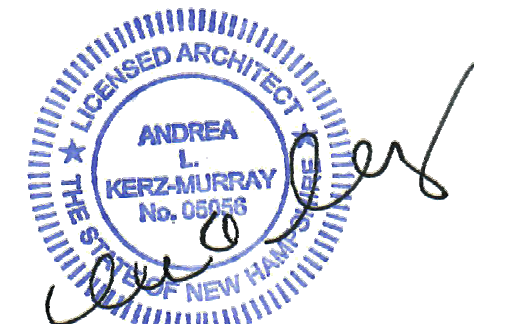
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KUA
 KILTON/WELCH
 DORMITORIES

Main Street,
 Meriden, NH 03770

KILTON
 INTERIOR
 PARTITIONS

AK-0.6



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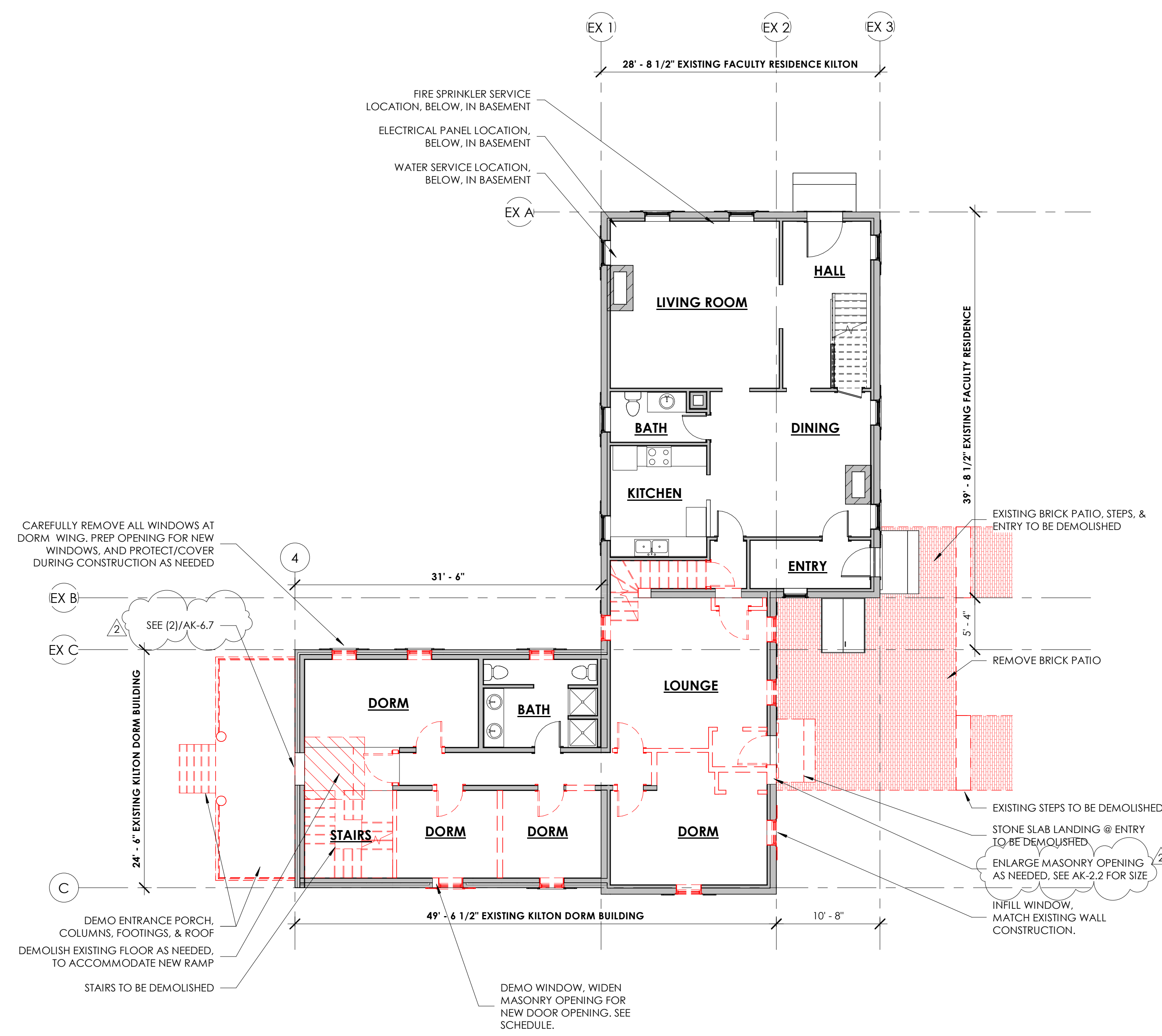
PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

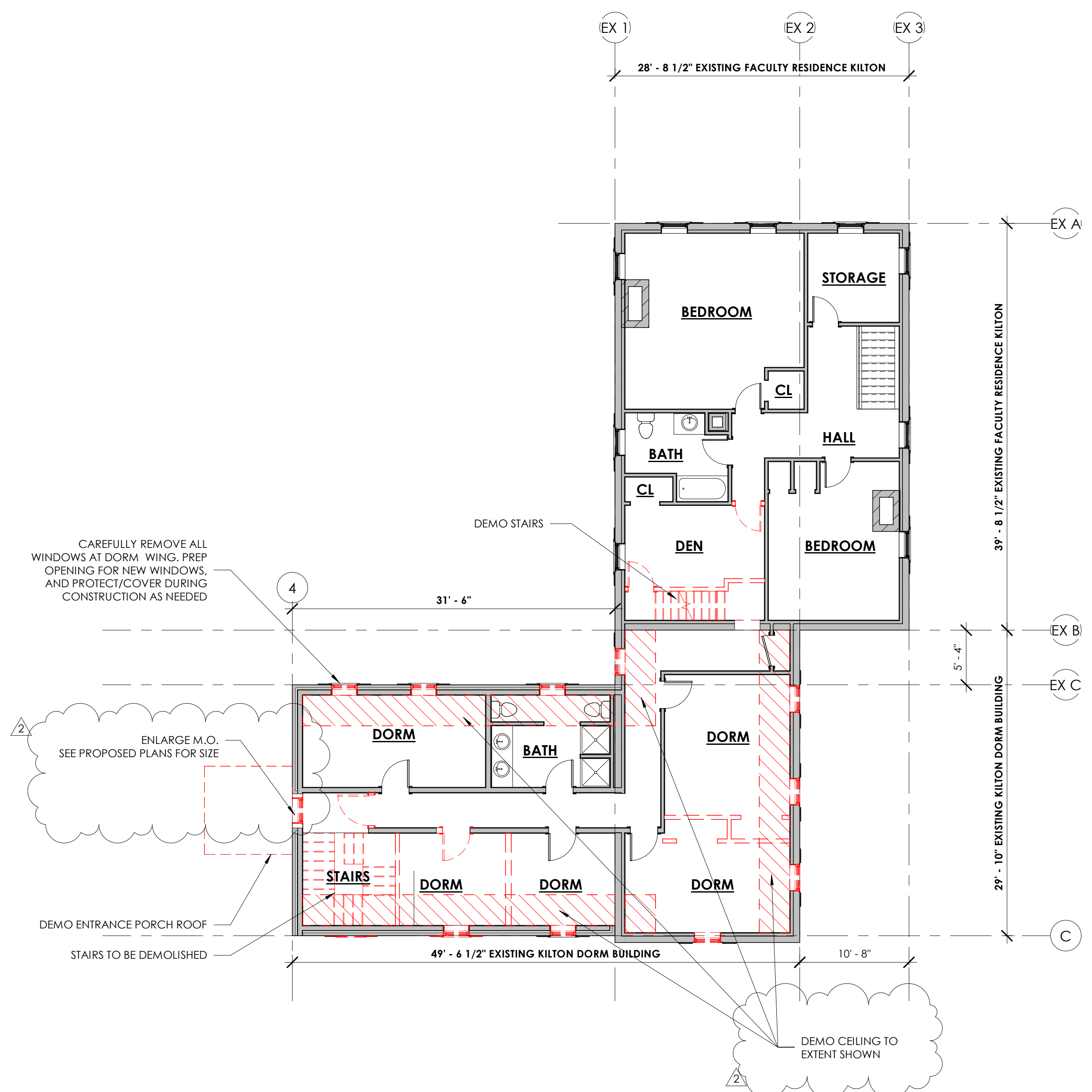
Main Street,
Meriden, NH 03770

**KILTON
EXISTING / DEMO
PLANS**

AK-1.0



1 First Floor (Existing/Demo Plan)
1/8" = 1'-0"



2 Second Floor (Existing/Demo Plan)
1/8" = 1'-0"

DEMO PLAN LEGEND

DEMOLISH/REMOVE

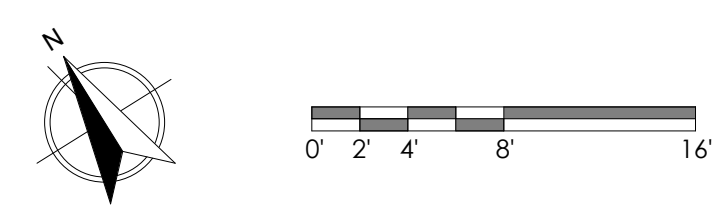
FLOOR PLAN LEGEND

EXISTING WALL

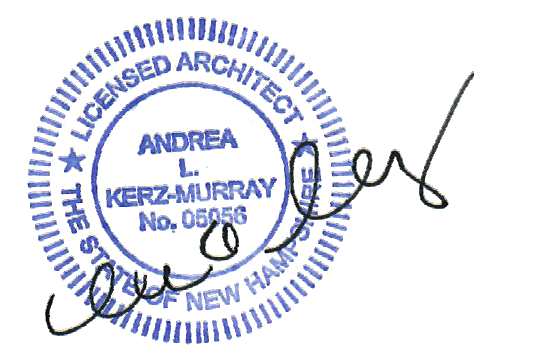
EXISTING CONCRETE WALL

EXISTING MASONRY WALL

NEW WALL/NEW WALL INFILL



- GENERAL DEMOLITION NOTES:**
- VERIFY EXISTING CONDITIONS IN-FIELD. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - RED DASHED ITEMS ARE FOR DEMOLITION.
 - DIMENSIONS SHOWN ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE.
 - SEE MEP DRAWINGS FOR DEMOLITION SCOPE OF EXISTING FIXTURES/DEVICES.
 - SEE CIVIL & MEP DRAWINGS FOR DEMOLITION SCOPE OF EXISTING FIXTURES/DEVICES, AND FOR EXTENT OF UTILITY, CONCRETE, & ASSOCIATED INFRASTRUCTURE TO BE REMOVED.
 - SALVAGE EXISTING WINDOWS AND DOORS FOR RE-USE. RETAIN ANY UNUSED SALVAGE MATERIAL FOR OWNER'S FUTURE USE.
 - SALVAGE LANDSCAPE BRICKS AT EAST ENTRY FOR RE-USE IN NEW WALKWAYS.



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#	Date	Description
1	04/12/23	Addendum 1; Bid Set 1
2	05/15/23	Scope Changes to Bid Set #1

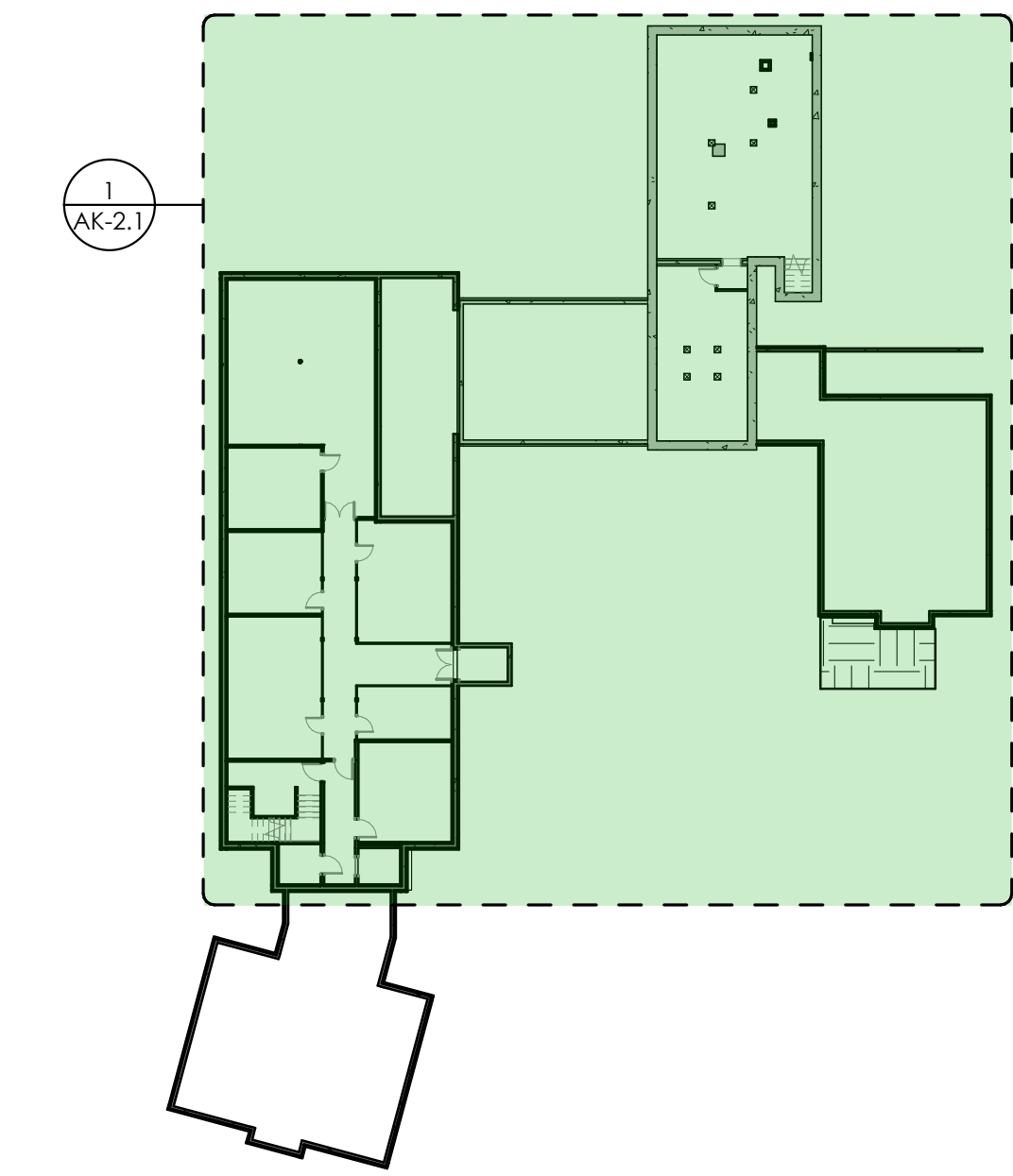
PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

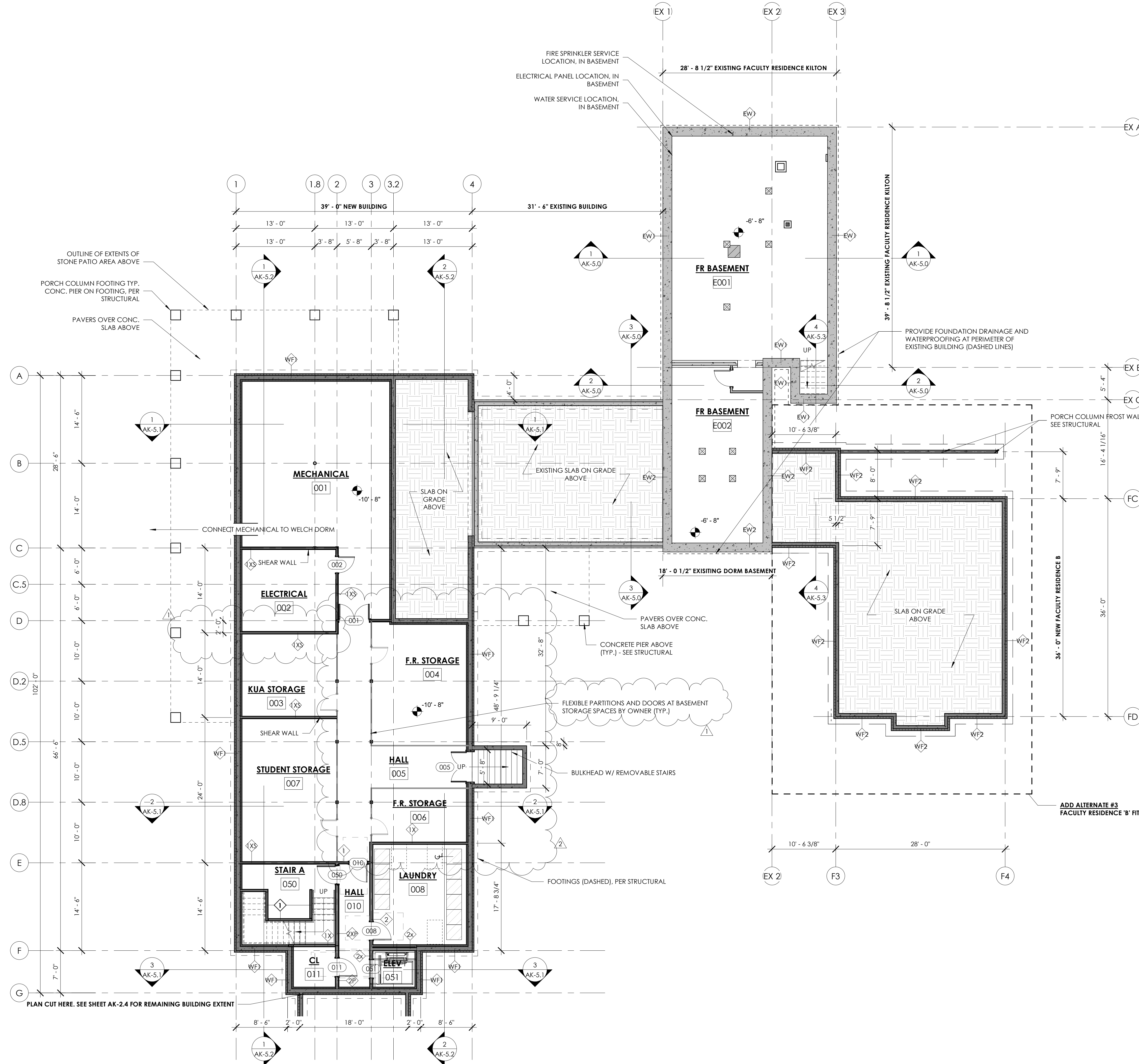
Main Street,
Meriden, NH 03770

**KILTON
BASEMENT PLAN**

AK-2.1

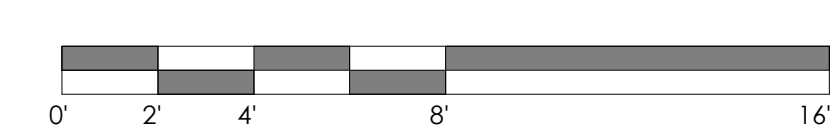


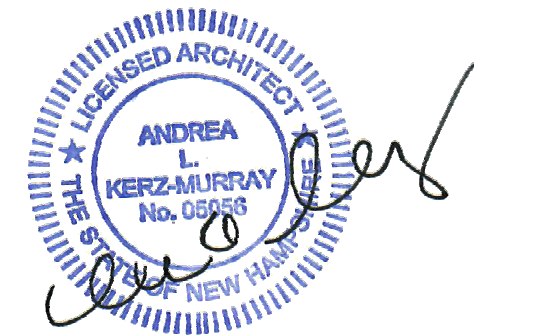
2 Basement Location Key
1" = 30'-0"



- GENERAL NOTES:**
- ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 - VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR.
 - SEE SHEETS AK-0.5 & AK-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 - FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWING SHEETS.
 - PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 - ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM, BUILT-IN BY CONTRACTOR.
 - ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 - SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

- FLOOR PLAN LEGEND**
- EXISTING WALL
 - EXISTING CONCRETE WALL
 - EXISTING MASONRY WALL
 - NEW WALL/NEW WALL INFILL





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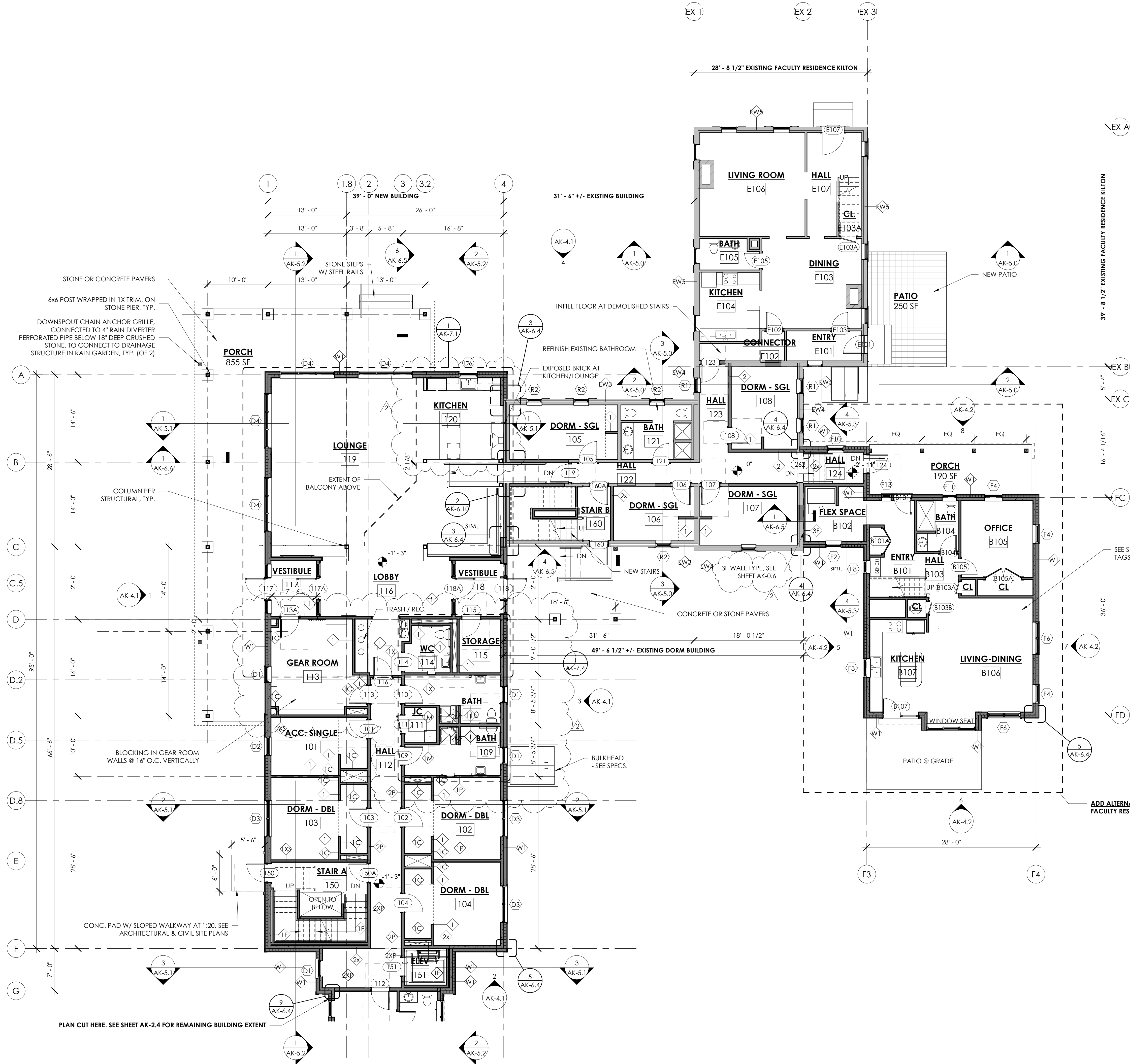
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**KUA
KILTON/WELCH
DORMITORIES**

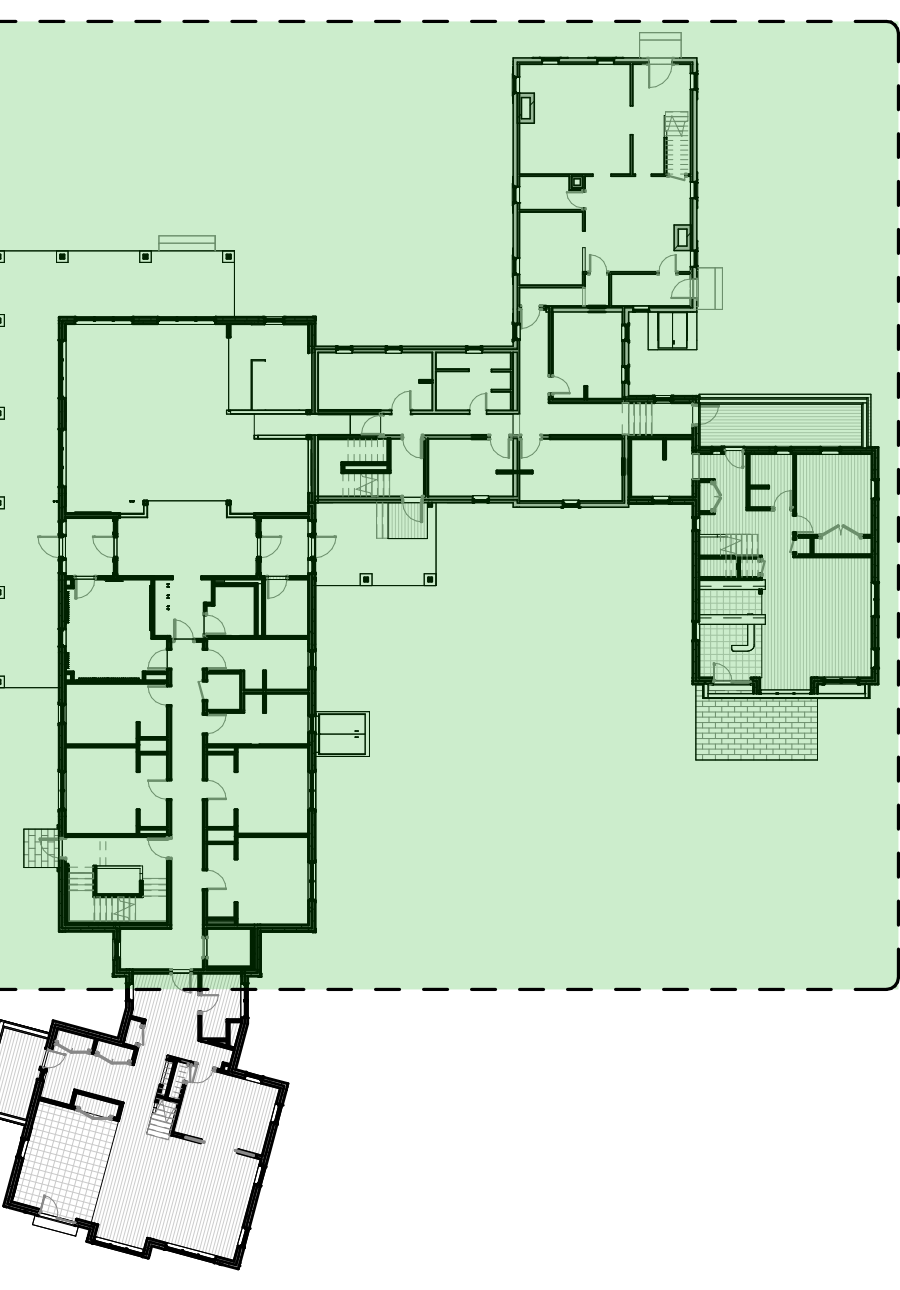
Main Street,
Meriden, NH 03770

**KILTON
FIRST FLOOR PLAN**

AK-2.2



2 First Floor Location Key
1" = 30'-0"

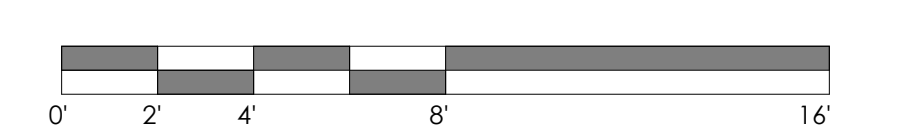


SEE SHEET AK-2.5 FOR PARTITION TYPE TAGS AT FACULTY RESIDENCE B

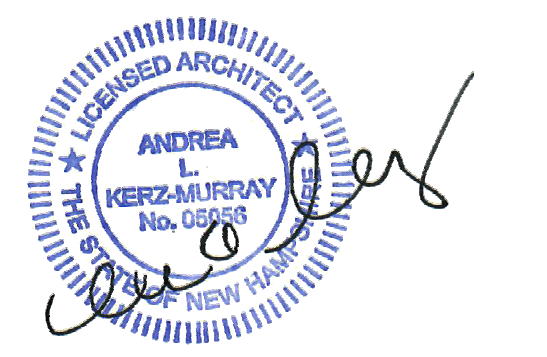
ADD ALTERNATE #3 FACULTY RESIDENCE 'B' FIT-UP

- GENERAL NOTES:**
- ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 - VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR. SEE SHEETS AK-0.5 & AK-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 - FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWING SHEETS.
 - PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 - ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM. BUILT-IN BY CONTRACTOR.
 - ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 - SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

- FLOOR PLAN LEGEND**
- EXISTING WALL
 - EXISTING CONCRETE WALL
 - EXISTING MASONRY WALL
 - NEW WALL/NEW WALL INFILL



1 First Floor Plan
1/8" = 1'-0"



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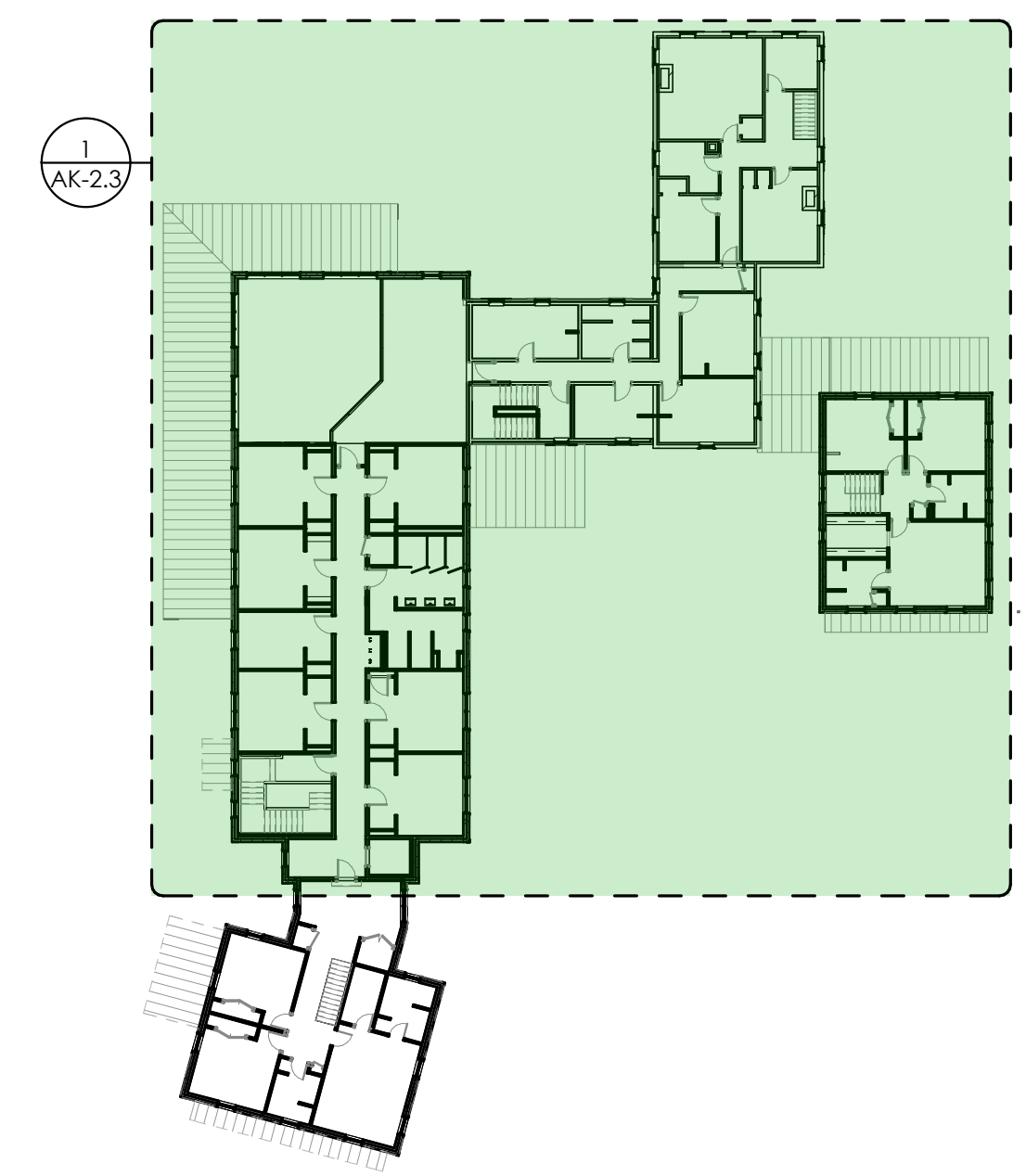
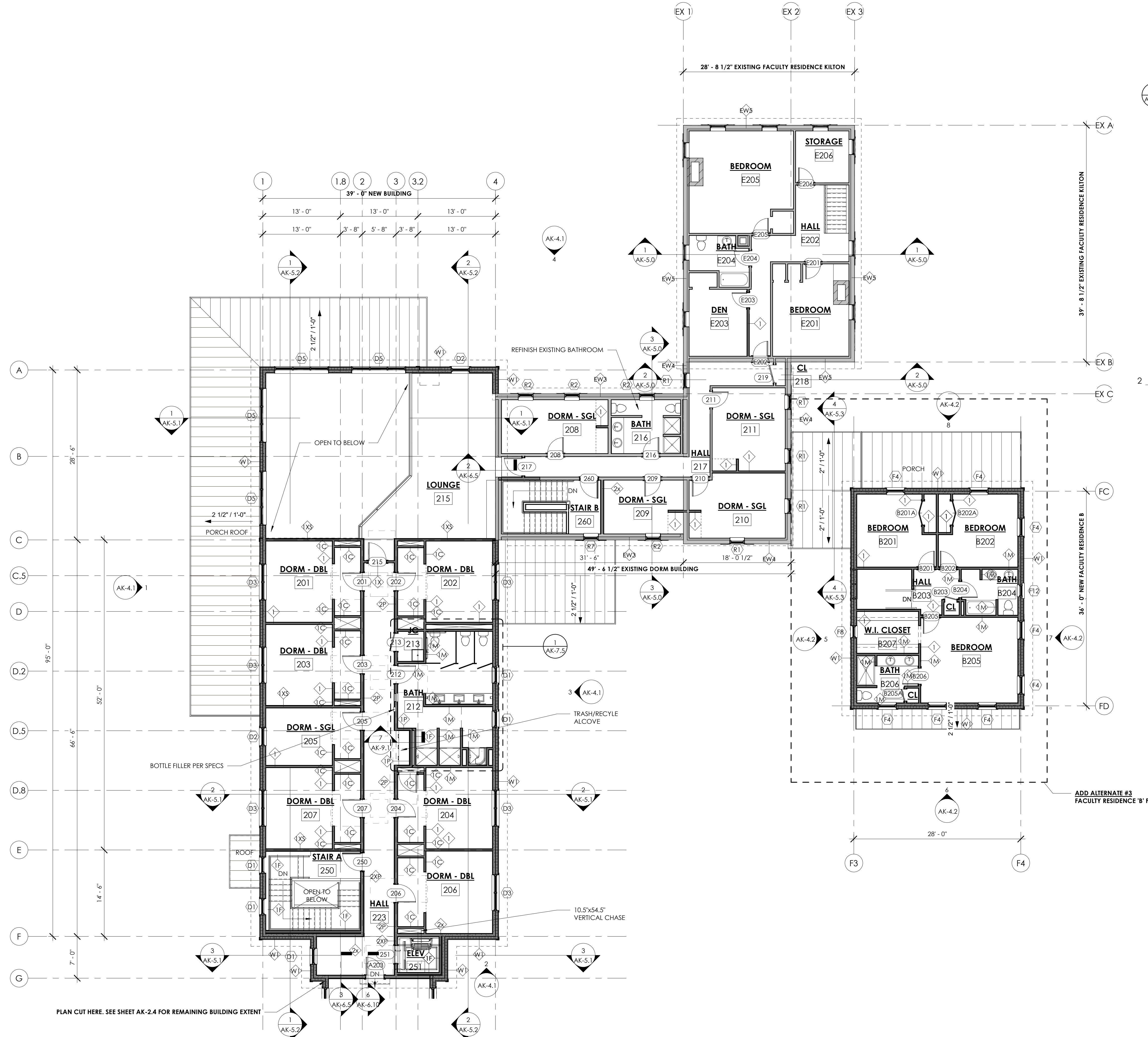
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**KUA
KILTON/WELCH
DORMITORIES**

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**KILTON
SECOND FLOOR
PLAN**

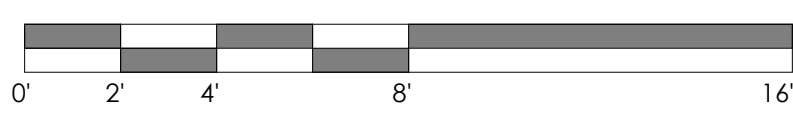
AK-2.3



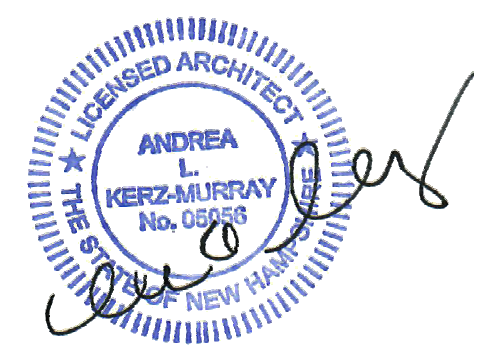
2 Second Floor Location Key
1" = 30'-0"

- GENERAL NOTES:**
1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 2. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR.
 3. SEE SHEETS AK-0.5 & AK-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 4. FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWING SHEETS.
 5. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 6. ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
 7. ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 8. SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

- FLOOR PLAN LEGEND**
- EXISTING WALL
 - EXISTING CONCRETE WALL
 - EXISTING MASONRY WALL
 - NEW WALL/NEW WALL INFILL



1 Second Floor Plan
1/8" = 1'-0"



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DORMITORIES

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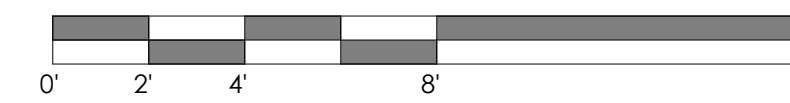
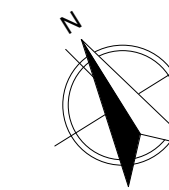
KILTON
FACULTY
RESIDENCE A
PLANS

AK-2.4

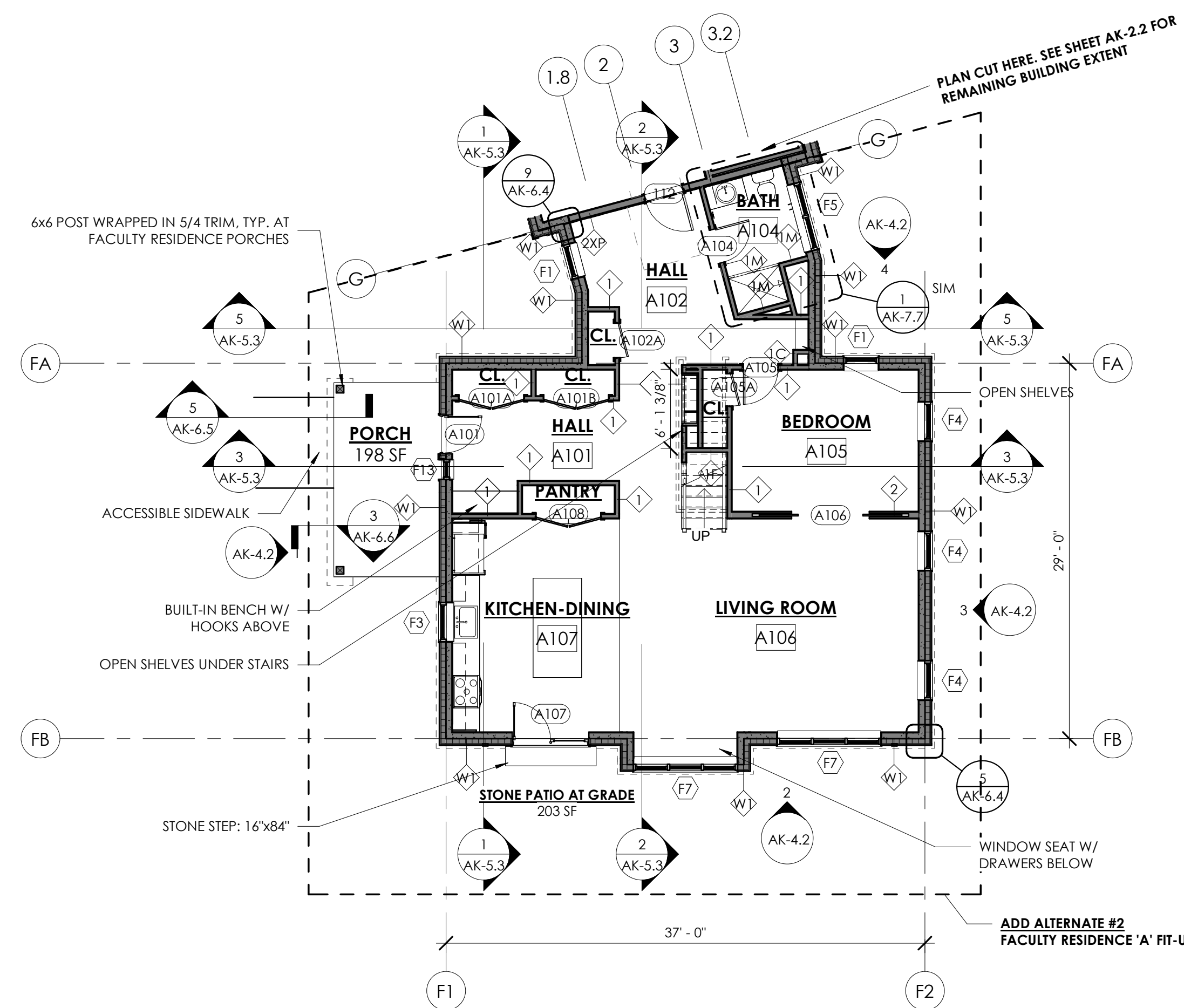
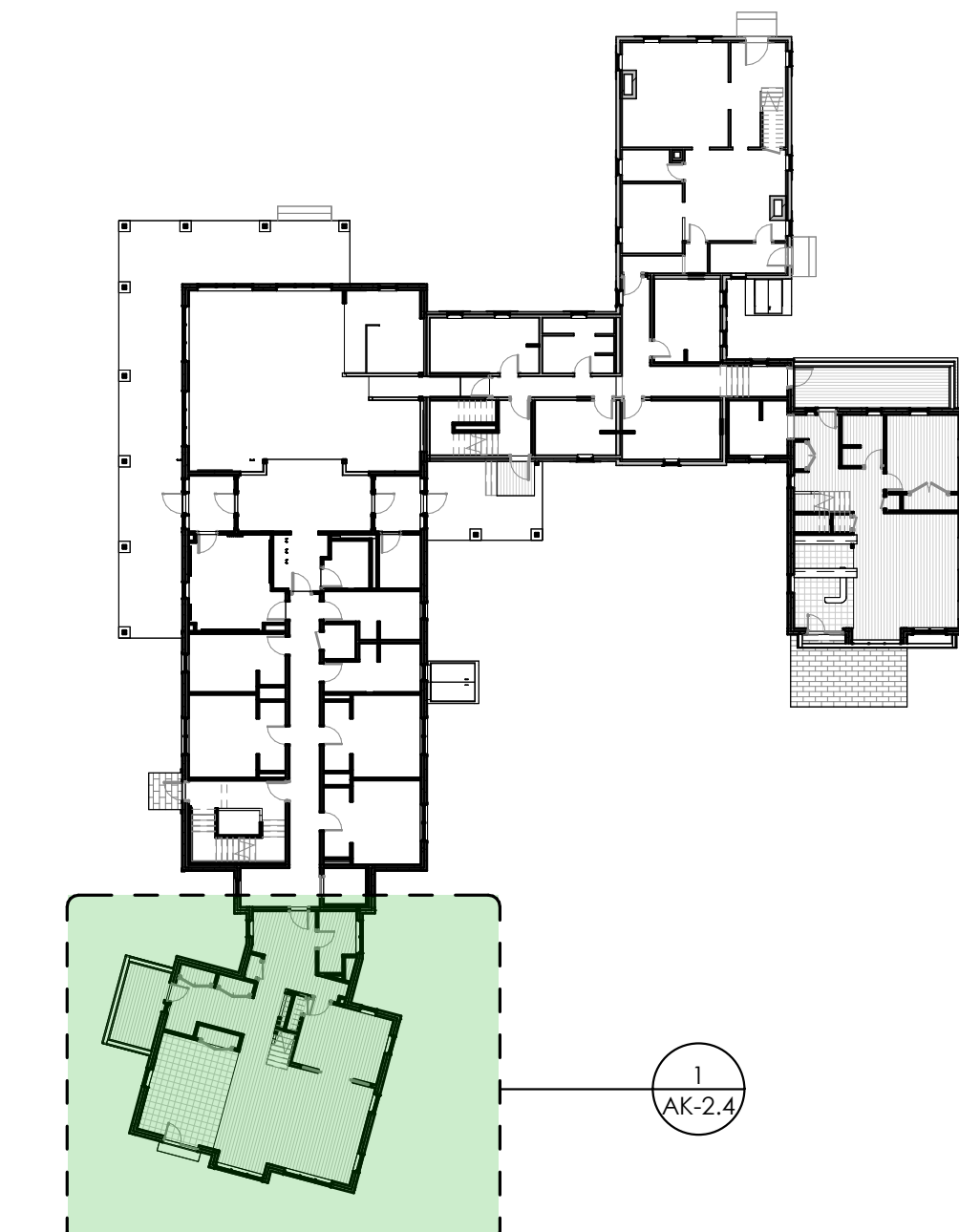
- GENERAL NOTES:**
- ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 - VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR. SEE SHEETS AK-0.5 & AK-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 - FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWINGS SHEETS.
 - PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 - ALL FURNITURE AND APPLIANCES BY OWNER: INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
 - ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE.
 - SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

FLOOR PLAN LEGEND

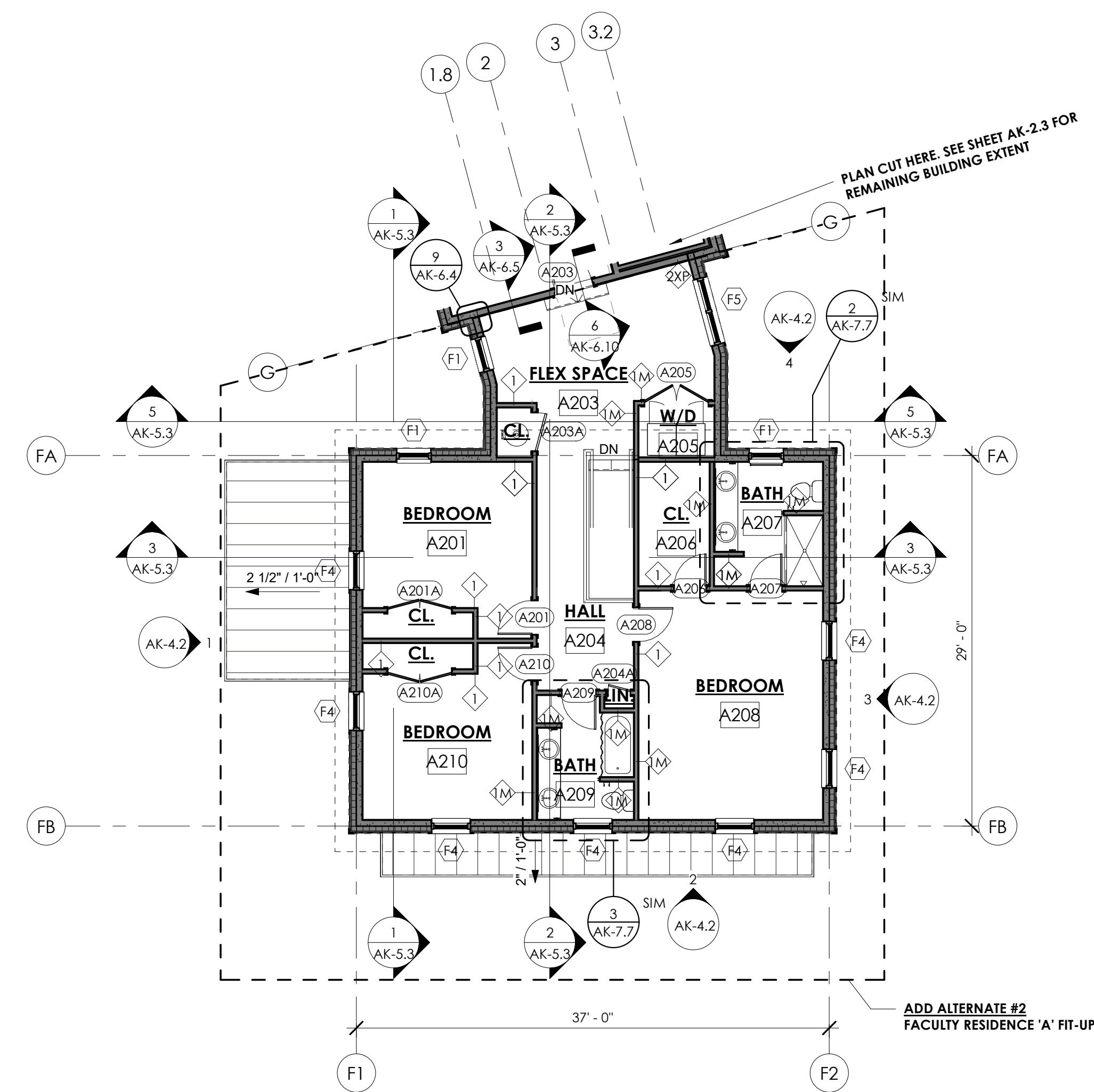
- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL



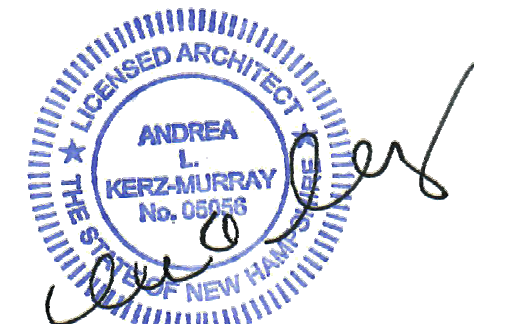
3 Faculty Residence A Location Key
1" = 30'-0"



1 First Floor Plan- Faculty Residence A
1/8" = 1'-0"



2 Second Floor Plan- Faculty Residence A
1/8" = 1'-0"



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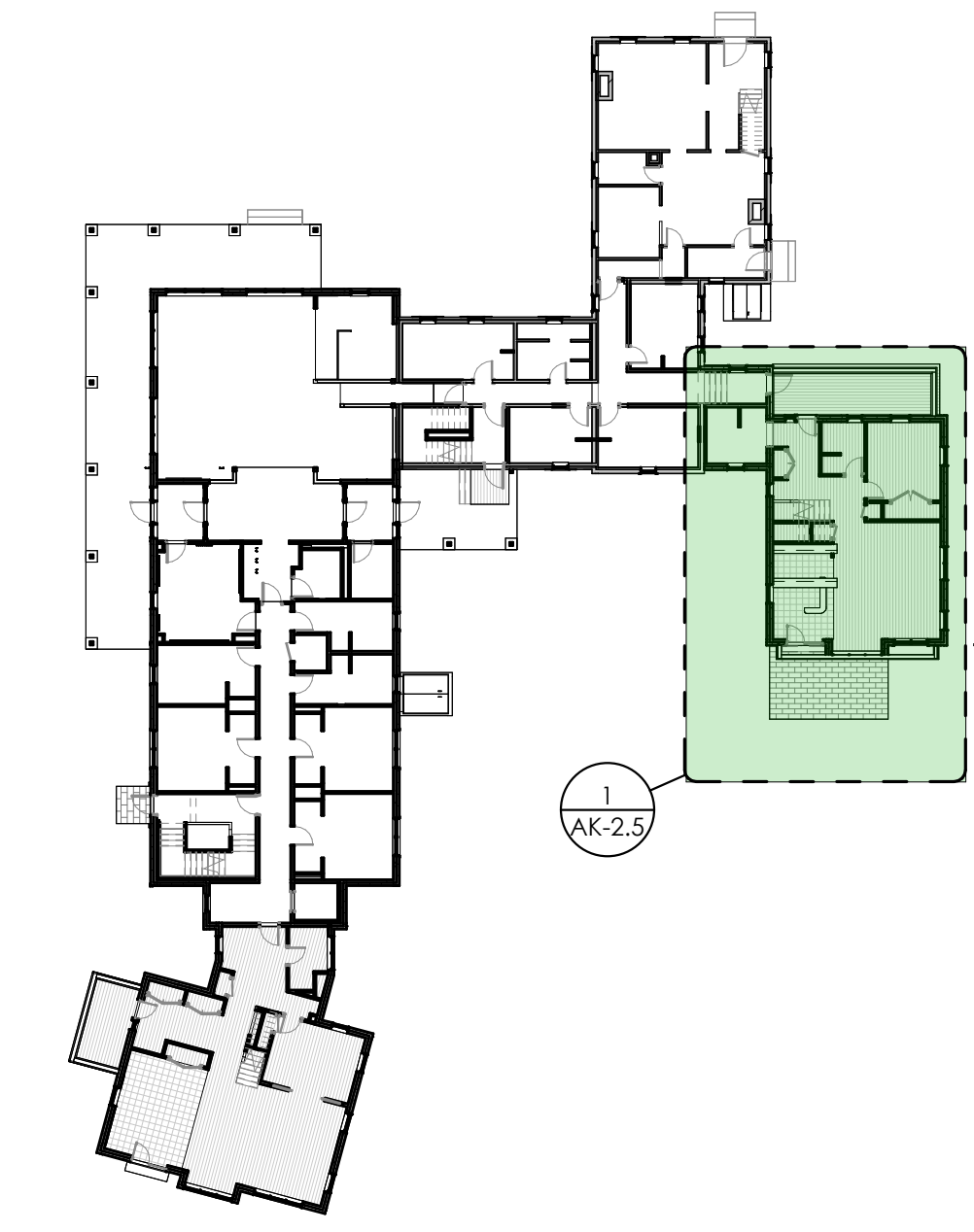
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DORMITORIES

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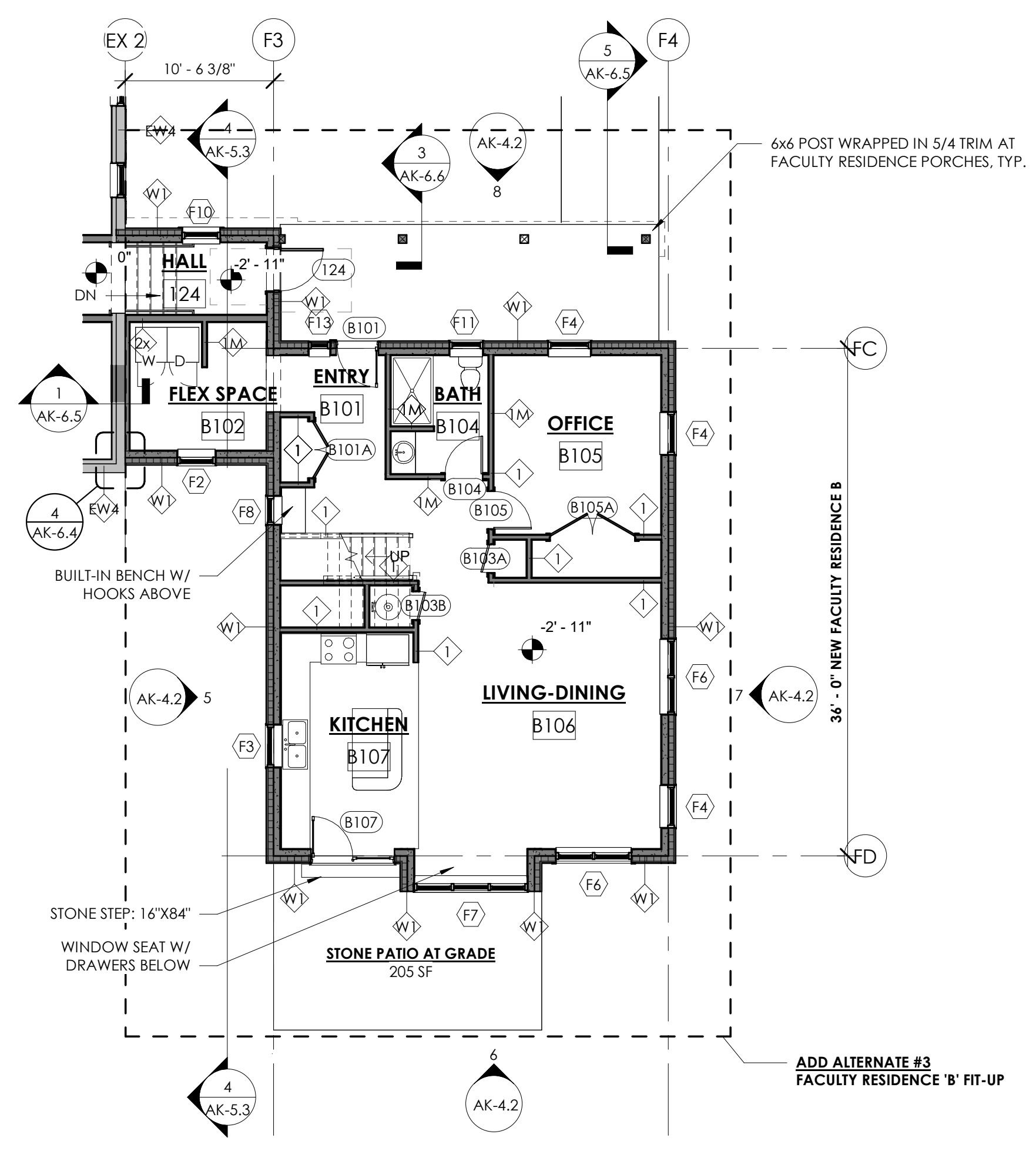
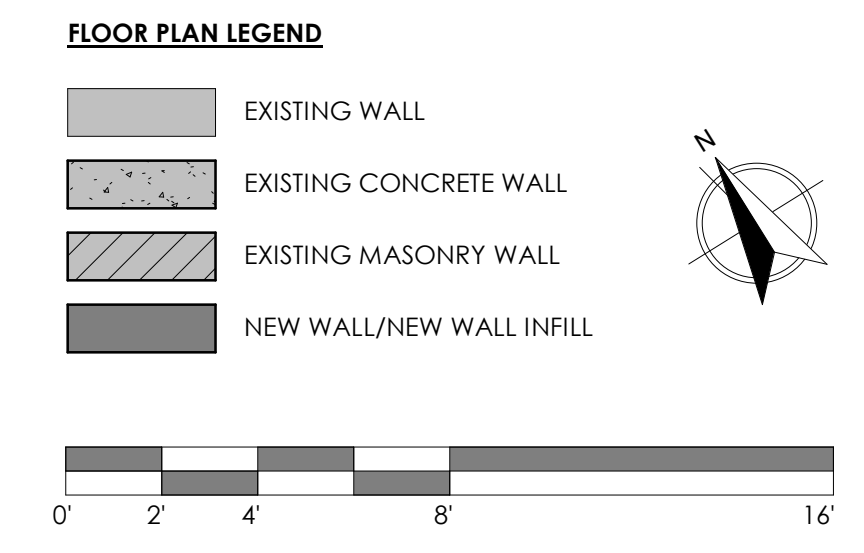
KILTON
FACULTY
RESIDENCE B
PLANS

AK-2.5

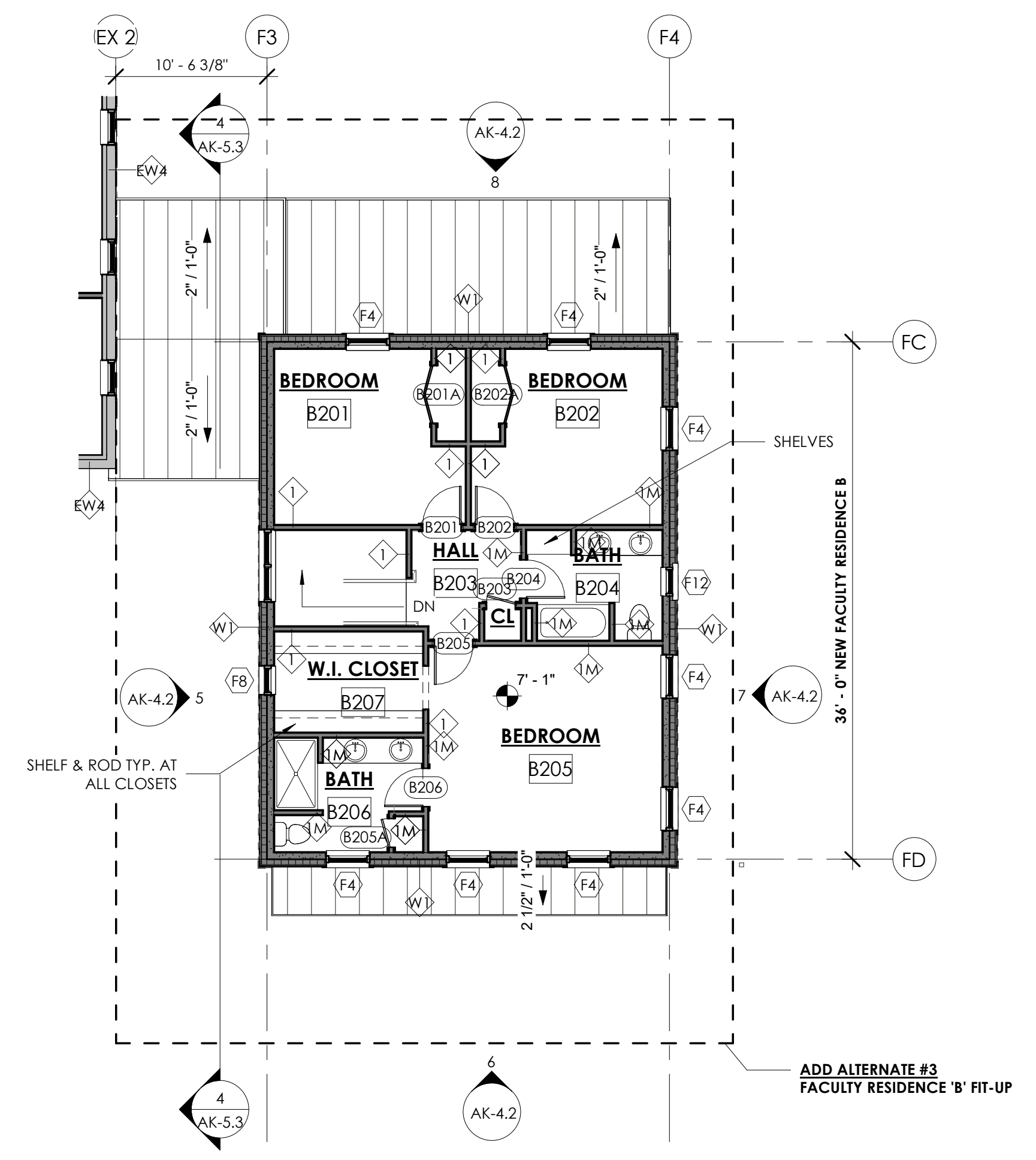


3 Faculty Residence B Location Key
1" = 30'-0"

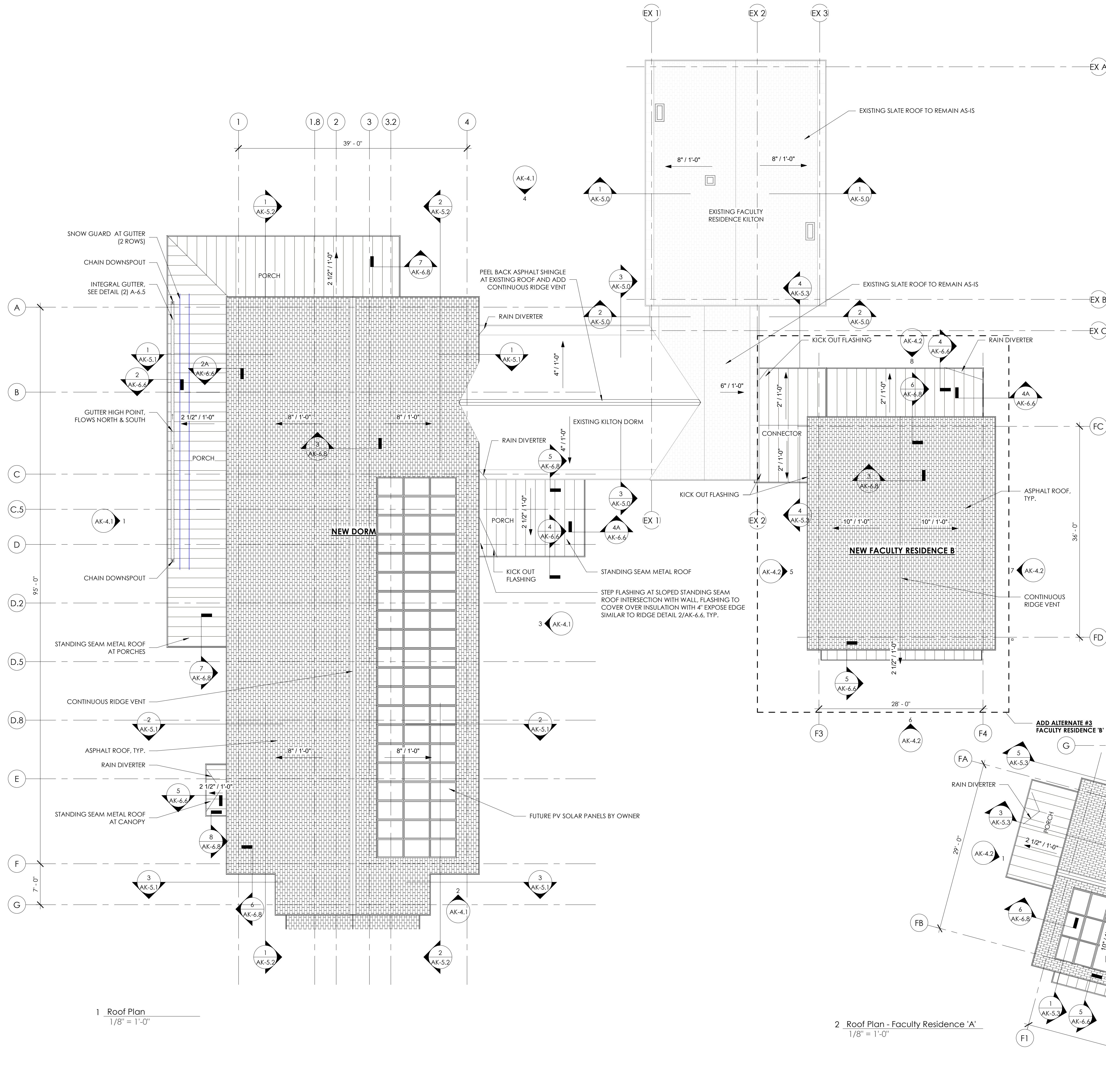
- GENERAL NOTES:**
- ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 - VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR. SEE SHEETS AK-0.5 & AK-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 - FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWINGS SHEETS.
 - PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 - ALL FURNITURE AND APPLIANCES BY OWNER: INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
 - ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 - SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.



1 First Floor Plan- Faculty Residence B
1/8" = 1'-0"



2 Second Floor Plan- Faculty Residence B
1/8" = 1'-0"



- ROOF GENERAL NOTES:**
1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 2. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
 3. PROVIDE BLOCKING FOR ALL ROOF MOUNTED EQUIPMENT.
 4. PROVIDE PLATES FOR ALL OVERBUILD AREAS, REMOVING EXISTING FINISH ROOFING PRIOR TO INSTALLATION.
 5. COORDINATE ALL ROOF VENT & PENETRATION LOCATIONS WITH ARCHITECT, ROOF PLANES SHOWING PV PANELS TO BE KEPT CLEAR OF ALL EQUIP. & PENETRATIONS, TYP.

- GENERAL NOTES:**
1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 2. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR.
 3. SEE SHEETS AK-0.5 & AK-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 4. FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWING SHEETS.
 5. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 6. ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
 7. ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 8. SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL

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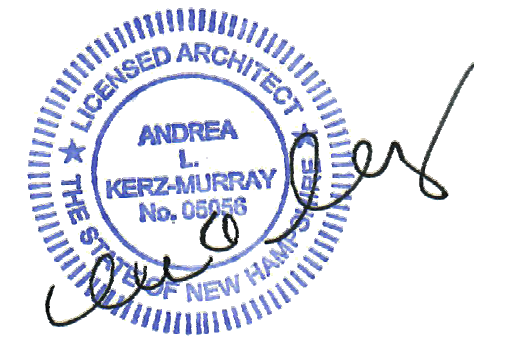
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**KUA
KILTON/WELCH
DORMITORIES**

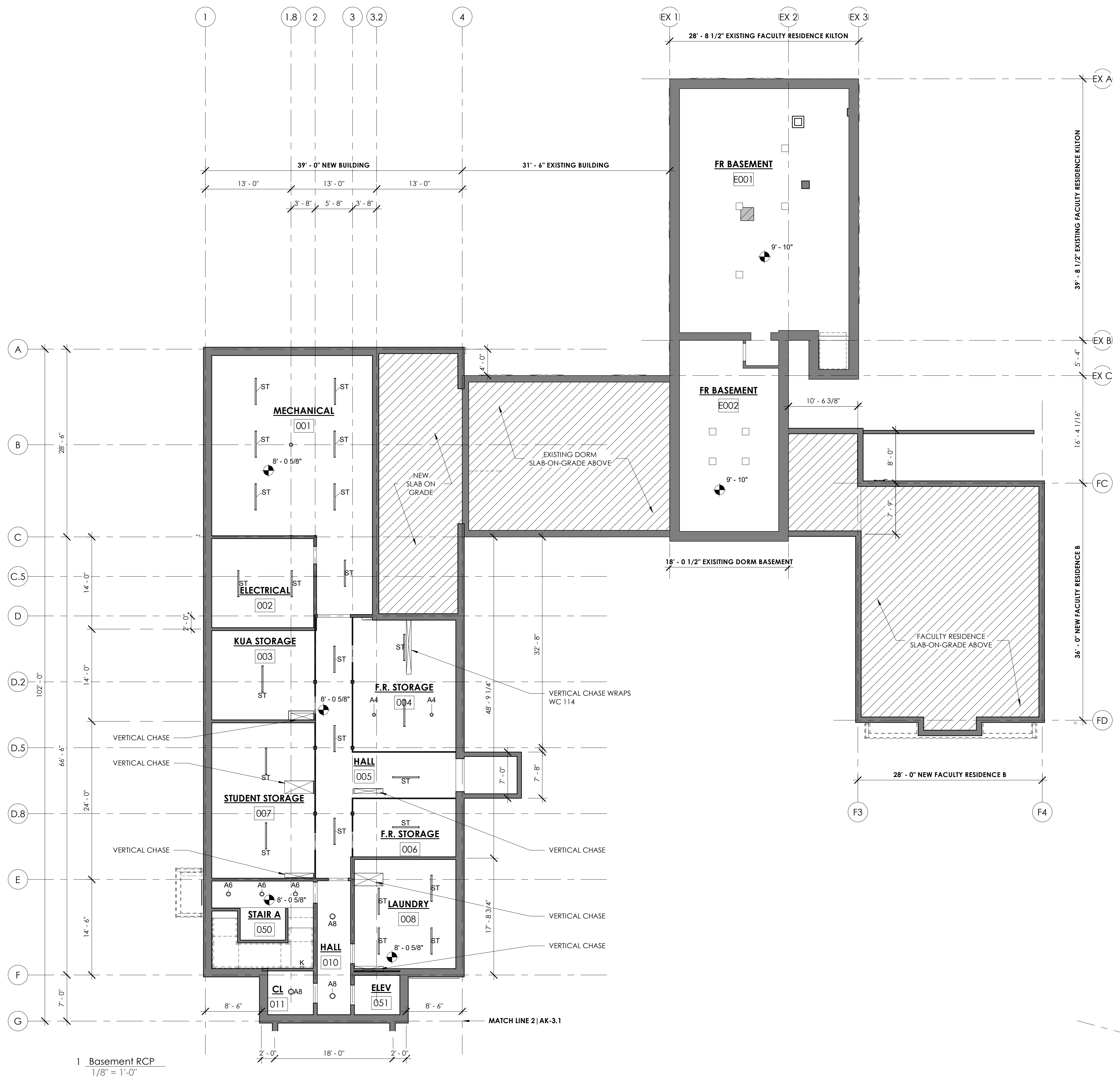
Main Street,
Meriden, NH 03770

**KILTON
ROOF PLAN**

AK-2.6

1 Roof Plan
1/8" = 1'-0"

2 Roof Plan - Faculty Residence 'A'
1/8" = 1'-0"



- RCP NOTES:**
1. CEILING HEIGHTS SHOWN ARE APPROXIMATE. TBD, VIF.
 2. SOFFIT WIDTHS SHOWN ARE TO OUTSIDE FACE-OF-FINISH. SEE DETAILS FOR CONSTRUCTION INFORMATION.
 3. COORDINATE WITH MECHANICAL DRAWINGS AS NEEDED FOR HVAC DEVICE/CONTROL LOCATIONS.
 4. SEE ELECTRICAL PLANS FOR EMERGENCY LIGHTING, EXIT SIGNAGE, FIRE-DETECTION DEVICES, ETC.
 5. ALL LIGHTING AND DEVICE QUANTITIES SHOULD BE PRICED FROM ELECTRICAL PLANS. LIGHTING ON ARCHITECTURAL PLANS ARE FOR LOCATIONAL REFERENCE ONLY.
 6. "TYPE E" - PENDANT FIXTURES SHALL BE CENTERED OVER THE KITCHEN ISLAND BELOW.
 7. COORDINATE MOUNTING HEIGHT OF FIXTURES WITH ARCHITECT.
 8. LOCATION OF FIXTURES SHOULD BE CENTERED WITHIN A CEILING, U.N.O.
 9. NEW AND EXISTING SPACES TO BE FULLY-EQUIPPED WITH A SPRINKLER SYSTEM.
 10. ASSUME GWB CEILING FINISH IN NEW STAIRS, UNDER EACH STRINGER. SEE DETAILS.
 11. EXISTING KILTON DORM 1ST FLOOR CEILING TO REMAIN, WITH NEW LIGHTING ALTERNATE #5.
 12. ALL DROPPED-SOFFITS IN DORM ROOMS TO BE FRAMED W/ 2X4 LUMBER W/ GWB. CORRIDOR & BATHROOM CEILING TO BE SUSPENDED GWB ON 650 GRID.

FLOOR PLAN LEGEND

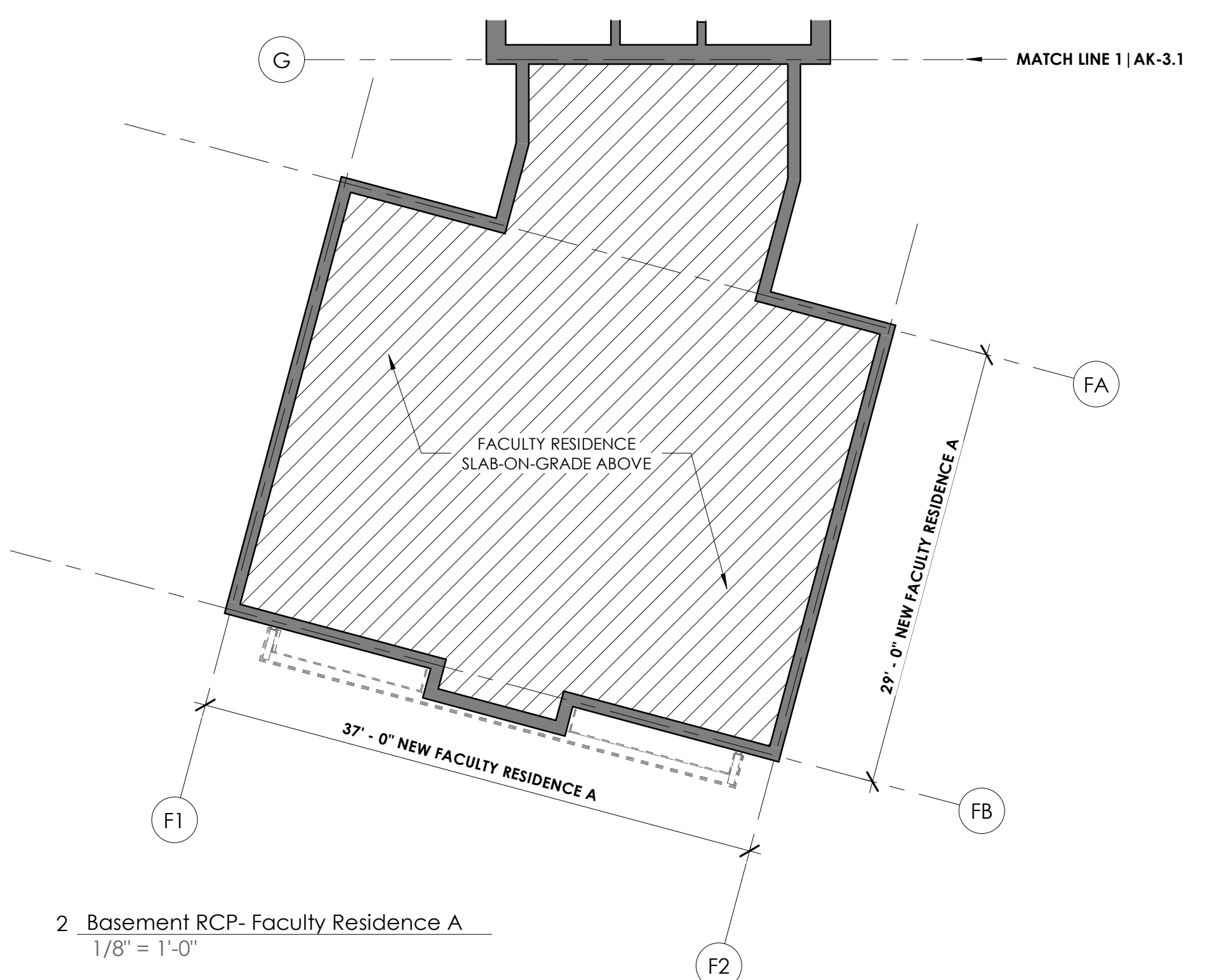
- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL

CEILING TYPES

- GYPHUM WALL BOARD
- NEW SLOPED GWB. CEILING
- WOOD CEILING

LIGHTING SCHEDULE

Type Mark	Description
A3	3 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A4	4 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A6	6 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A8	8 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
B	Interior Wall Luminaire
D	DECORATIVE PENDANT-LARGE
E	DECORATIVE PENDANT-SMALL
F	DECORATIVE PENDANT-MEDIUM
G	LED STRIP LIGHT AT BATH ROOMS
K	WALL MOUNTED SCONCE
ST	UTILITY LIGHT



2 Basement RCP- Faculty Residence A
1/8" = 1'-0"



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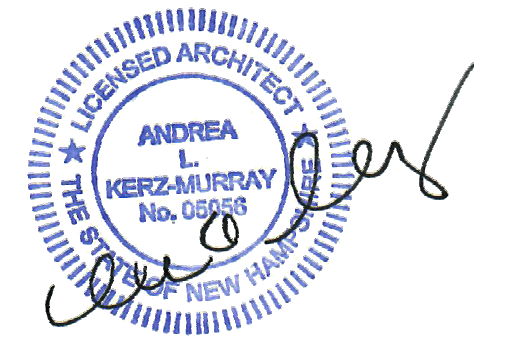
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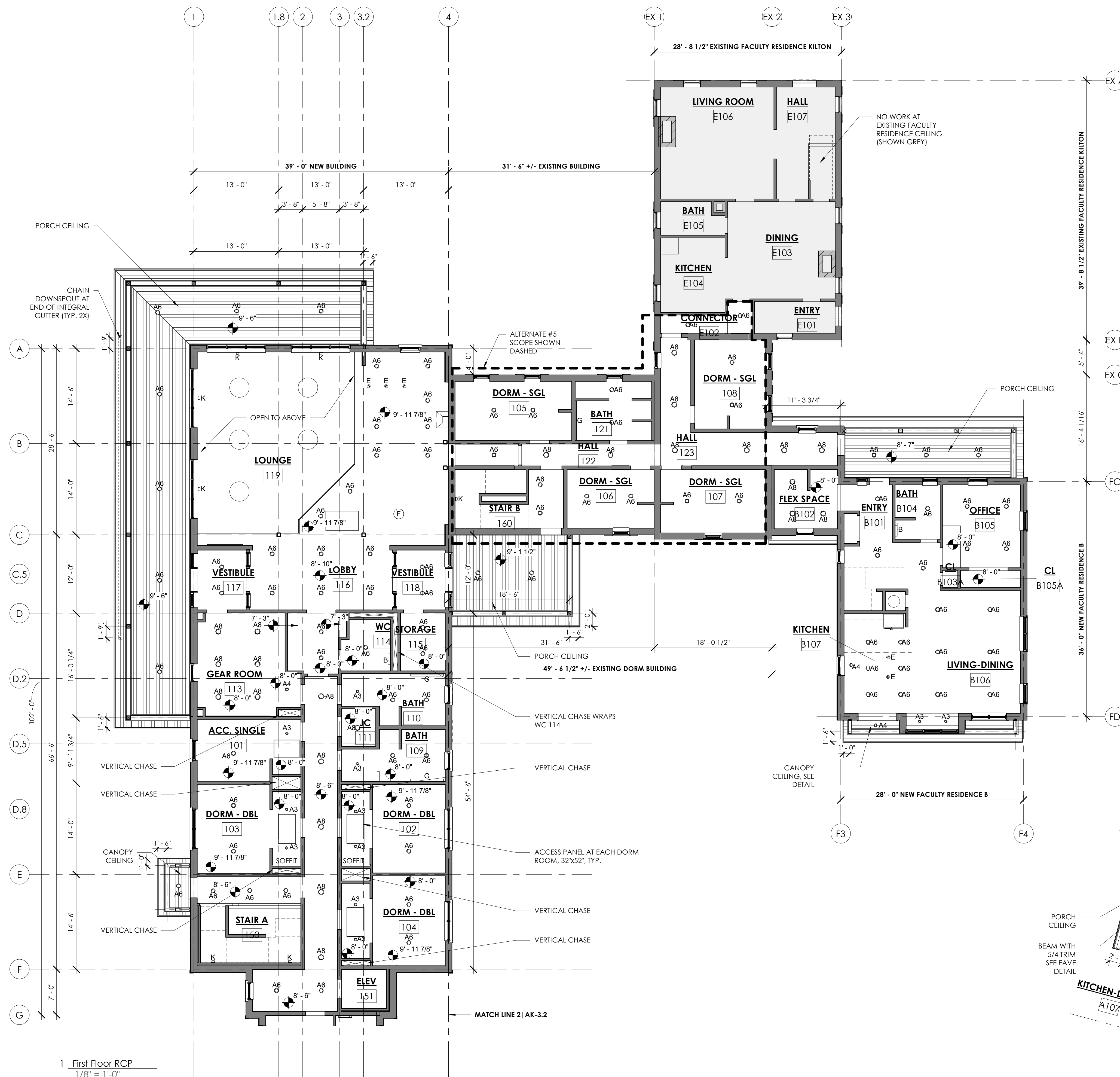
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KUA
KILTON/WELCH
DORMITORIES

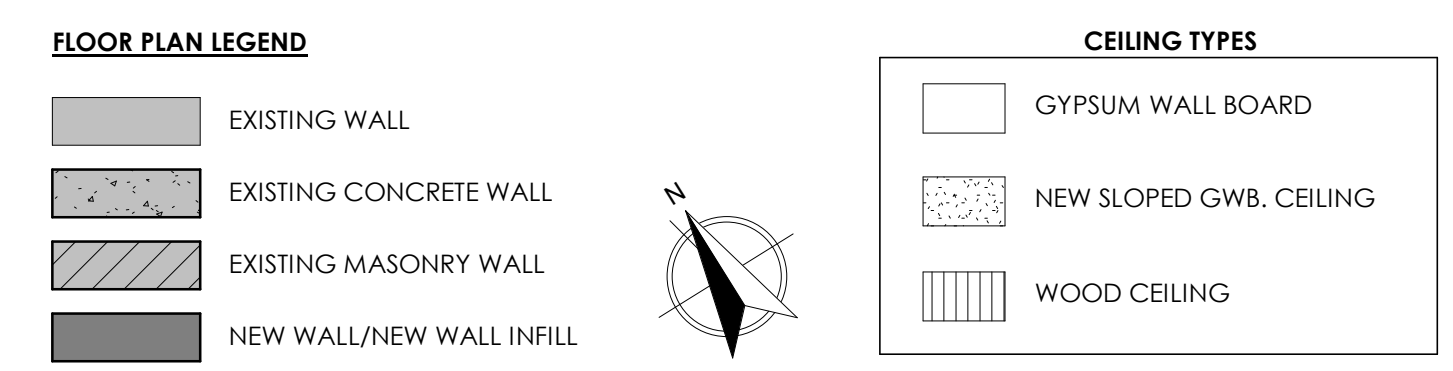
Main Street,
Meriden, NH 03770

KILTON
BASEMENT RCP

AK-3.1



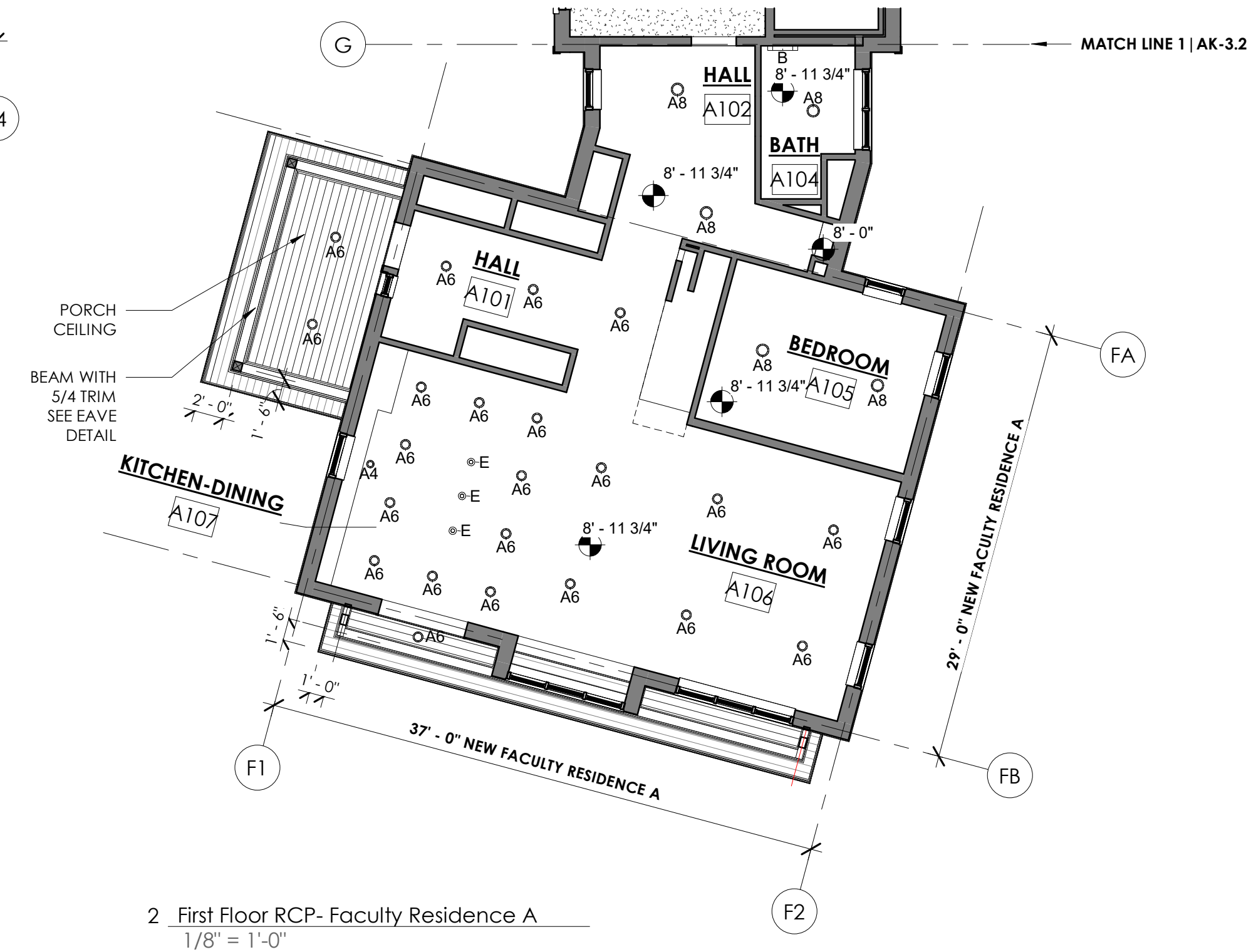
- RCP NOTES:**
1. CEILING HEIGHTS SHOWN ARE APPROXIMATE. TBD, VIF.
 2. SOFFIT WIDTHS SHOWN ARE TO OUTSIDE FACE-OF-FINISH. SEE DETAILS FOR CONSTRUCTION INFORMATION.
 3. COORDINATE WITH MECHANICAL DRAWINGS AS NEEDED FOR HVAC DEVICE/CONTROL LOCATIONS.
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LIGHTING SCHEDULE

Type Mark	Description
A3	3 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A4	4 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A6	6 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
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B	Interior Wall Luminaire
D	DECORATIVE PENDANT-LARGE
E	DECORATIVE PENDANT-SMALL
F	DECORATIVE PENDANT-MEDIUM
G	LED STRIP LIGHT AT BATH ROOMS
K	WALL MOUNTED SCONCE
ST	UTILITY LIGHT

1 First Floor RCP
1/8" = 1'-0"



2 First Floor RCP- Faculty Residence A
1/8" = 1'-0"



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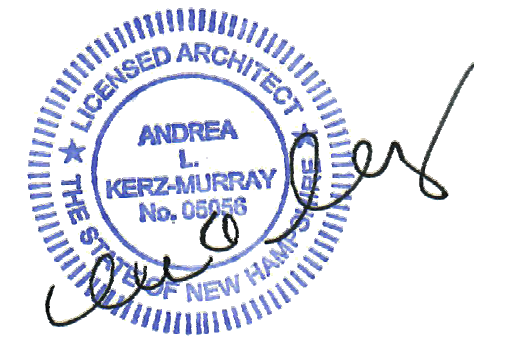
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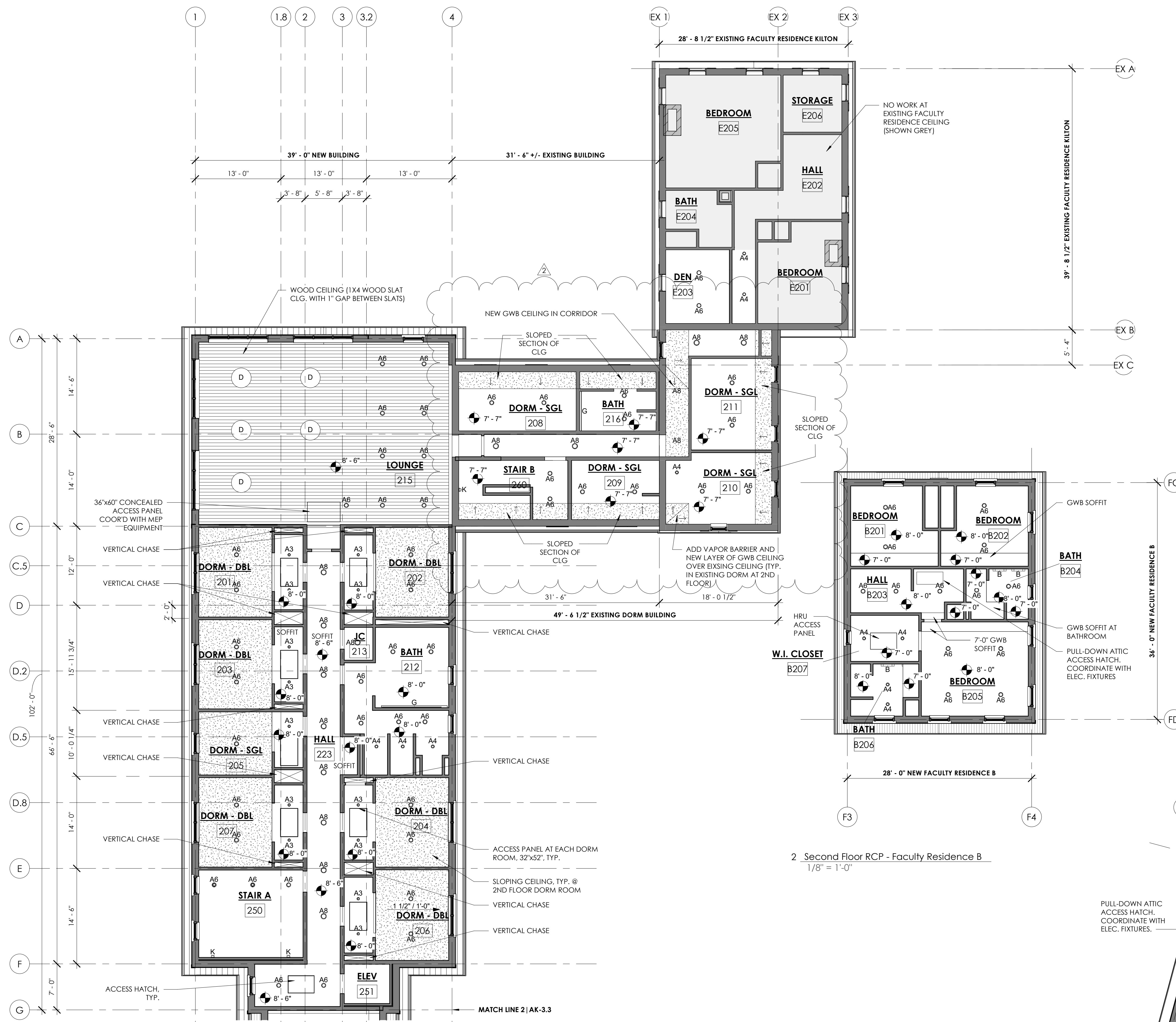
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KUA KILTON/WELCH DORMITORIES

Main Street,
 Meriden, NH 03770

KILTON FIRST FLOOR RCP

AK-3.2



1 Second Floor RCP
1/8" = 1'-0"

- RCP NOTES:**
1. CEILING HEIGHTS SHOWN ARE APPROXIMATE. TBD, VIF.
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FLOOR PLAN LEGEND

[Symbol]	EXISTING WALL
[Symbol]	EXISTING CONCRETE WALL
[Symbol]	EXISTING MASONRY WALL
[Symbol]	NEW WALL/NEW WALL INFILL

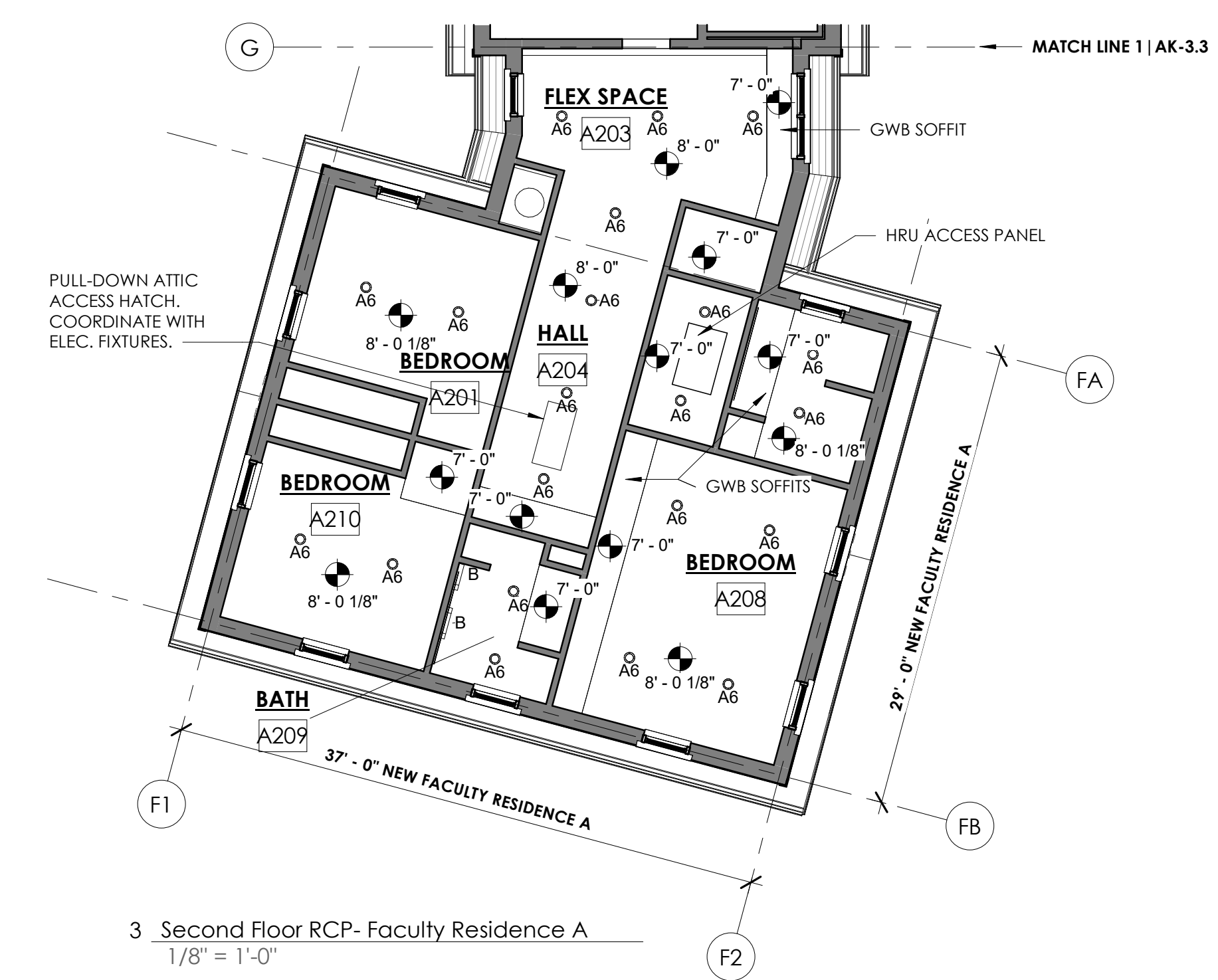
CEILING TYPES

[Symbol]	GYPSUM WALL BOARD
[Symbol]	NEW SLOPED GWB. CEILING
[Symbol]	WOOD CEILING

LIGHTING SCHEDULE

Type Mark	Description
A3	3 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
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A6	6 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
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F	DECORATIVE PENDANT-MEDIUM
G	LED STRIP LIGHT AT BATH ROOMS
K	WALL MOUNTED SCONCE
ST	UTILITY LIGHT

2 Second Floor RCP - Faculty Residence B
1/8" = 1'-0"



3 Second Floor RCP - Faculty Residence A
1/8" = 1'-0"



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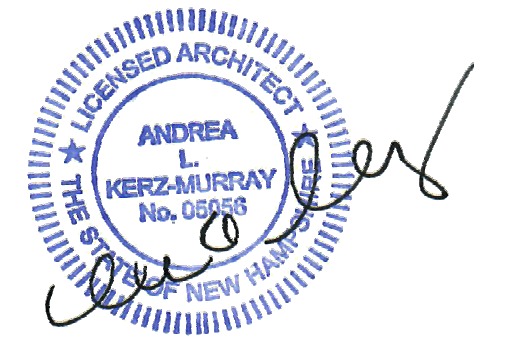
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KUA KILTON/WELCH DORMITORIES
Main Street, Meriden, NH 03770
KILTON SECOND FLOOR RCP

AK-3.3



#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

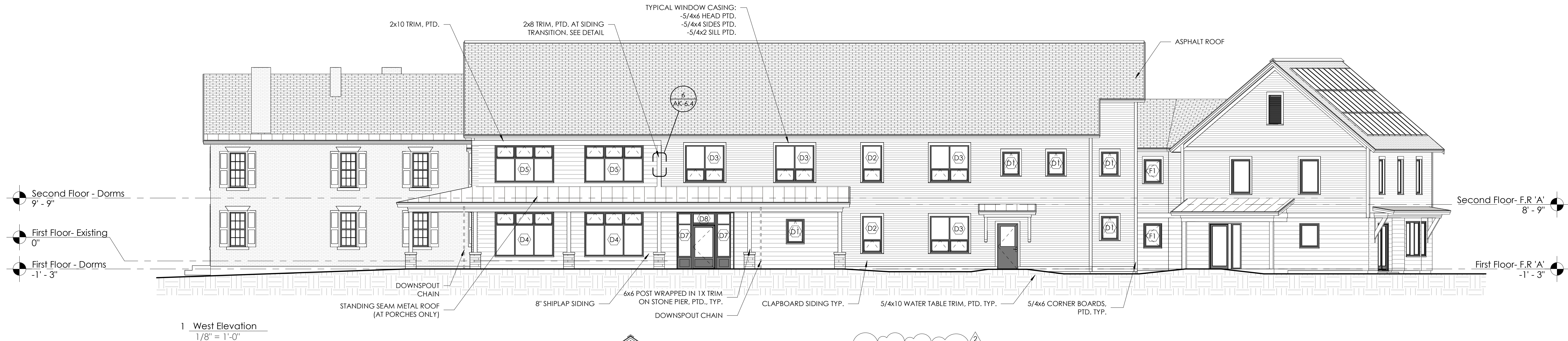
PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

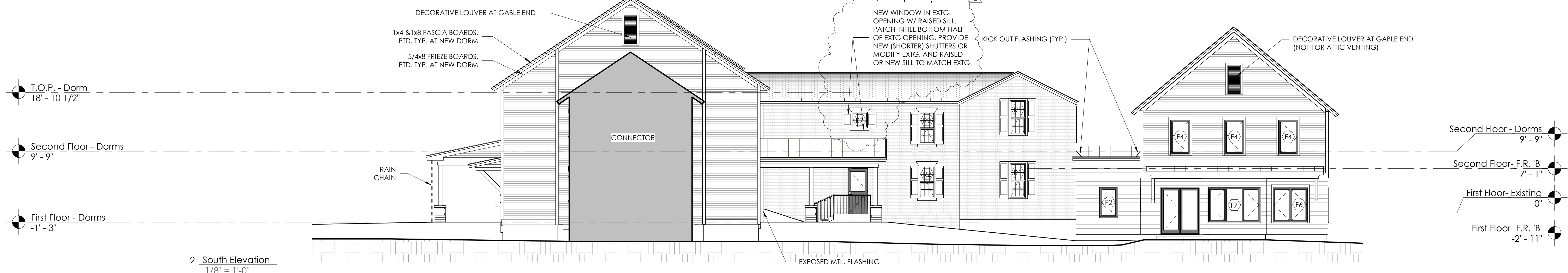
Main Street,
Meriden, NH 03770

**KILTON
DORM
ELEVATIONS**

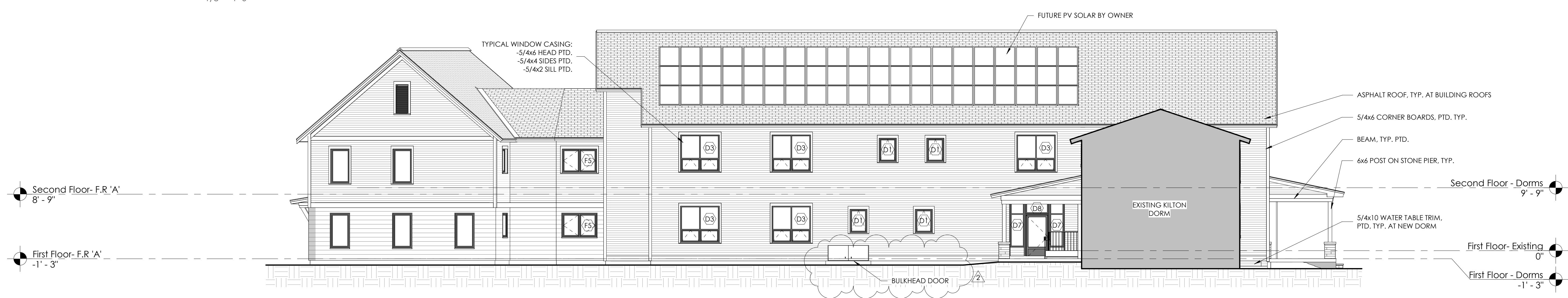
AK-4.1



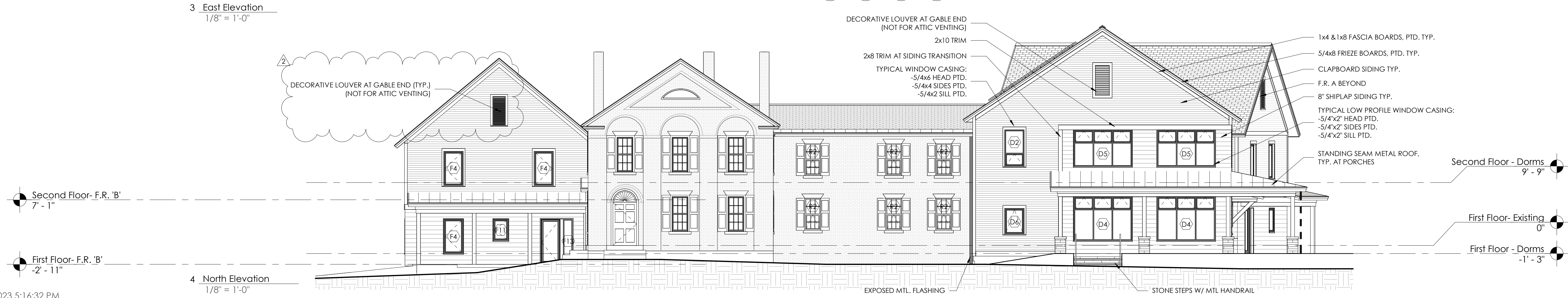
1 West Elevation
1/8" = 1'-0"



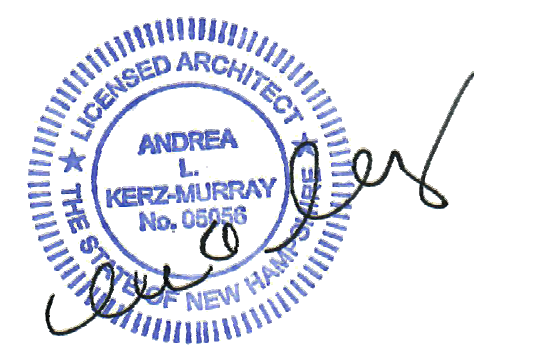
2 South Elevation
1/8" = 1'-0"



3 East Elevation
1/8" = 1'-0"



4 North Elevation
1/8" = 1'-0"



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PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

KILTON
FACULTY
RESIDENCE
ELEVATIONS

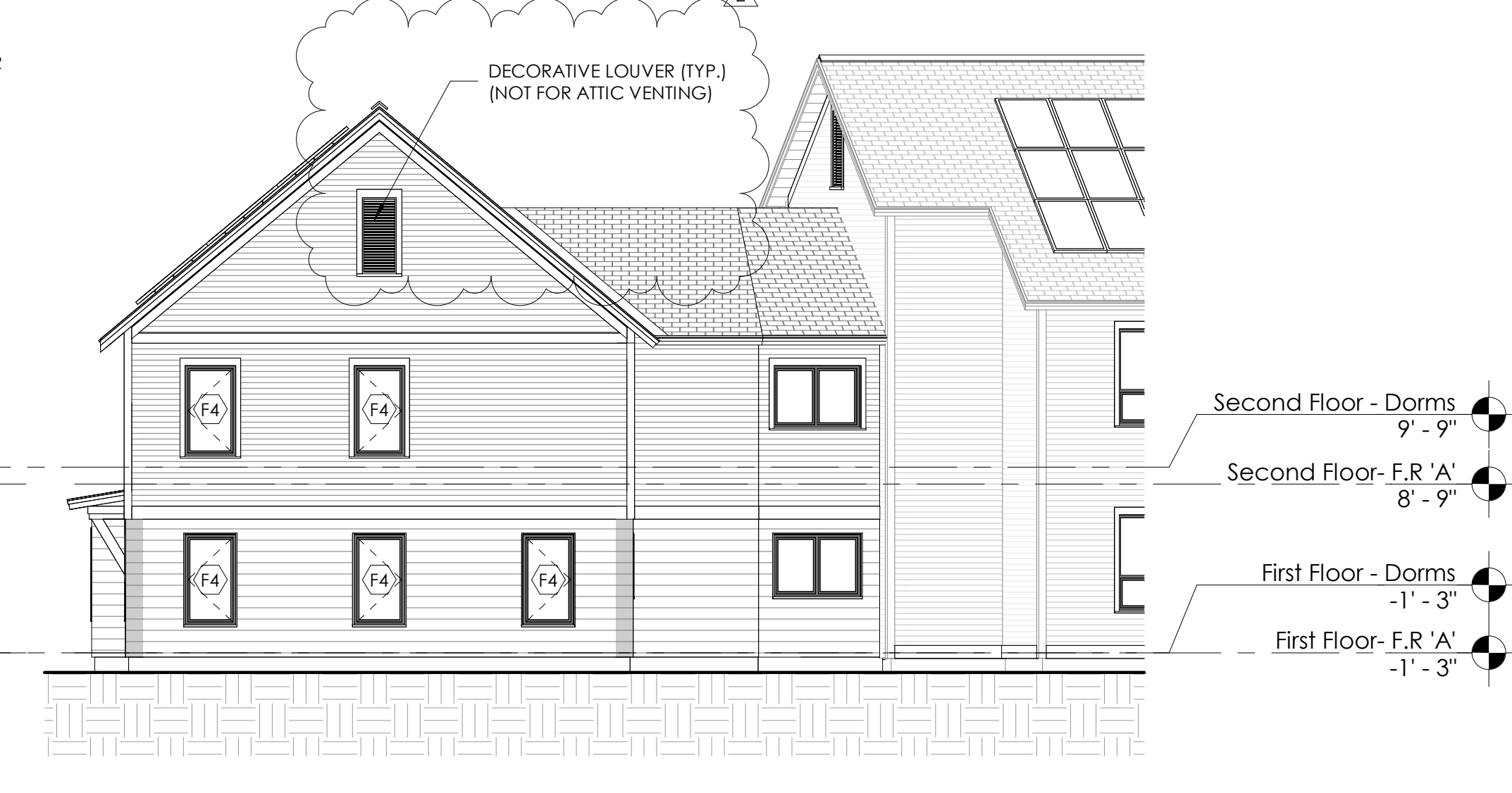
AK-4.2



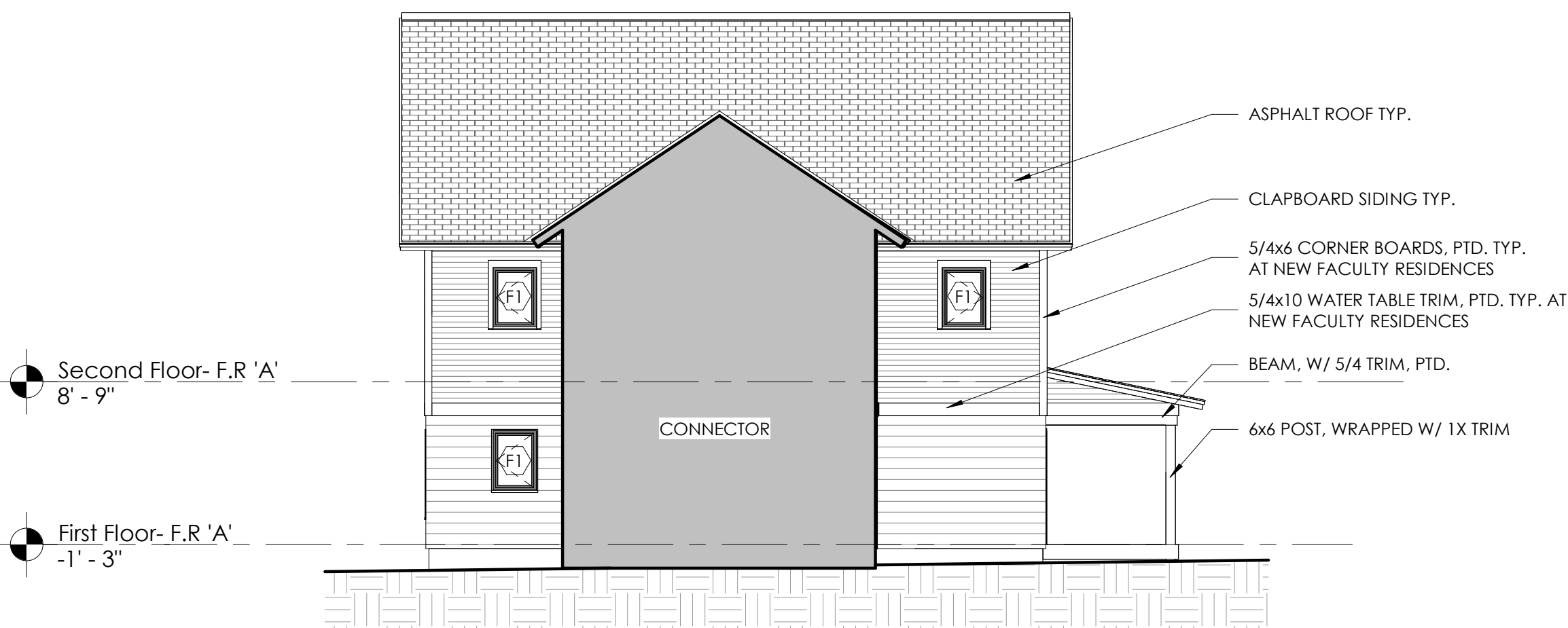
1 Faculty Residence 'A' West Elevation
1/8" = 1'-0"



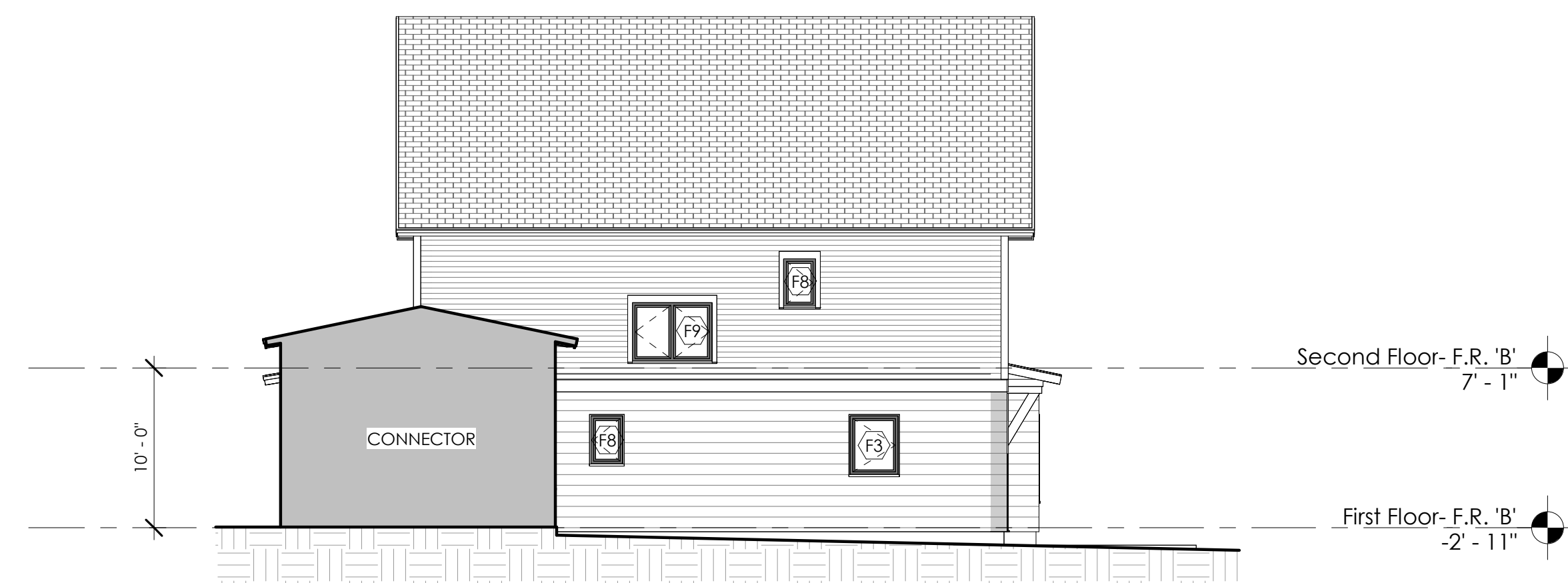
2 Faculty Residence 'A' South Elevation
1/8" = 1'-0"



3 Faculty Residence 'A' East Elevation
1/8" = 1'-0"



4 Faculty Residence 'A' North Elevation
1/8" = 1'-0"



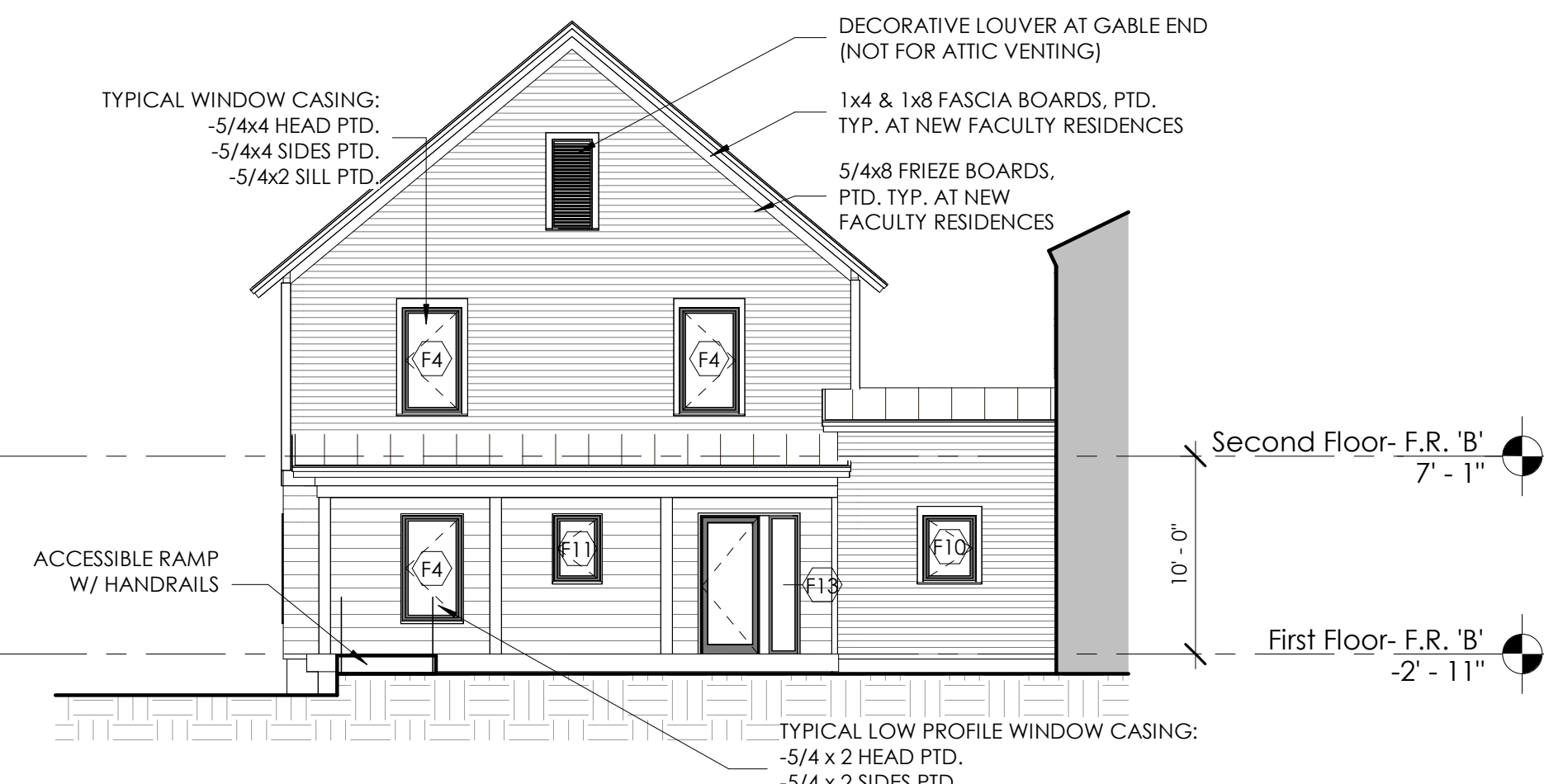
5 Faculty Residence 'B' West Elevation
1/8" = 1'-0"



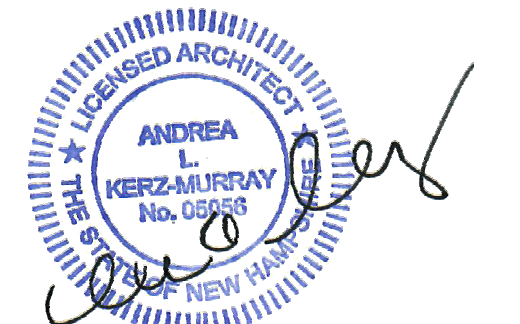
6 Faculty Residence 'B' South Elevation
1/8" = 1'-0"



7 Faculty Residence 'B' East Elevation
1/8" = 1'-0"



8 Faculty Residence 'B' North Elevation
1/8" = 1'-0"



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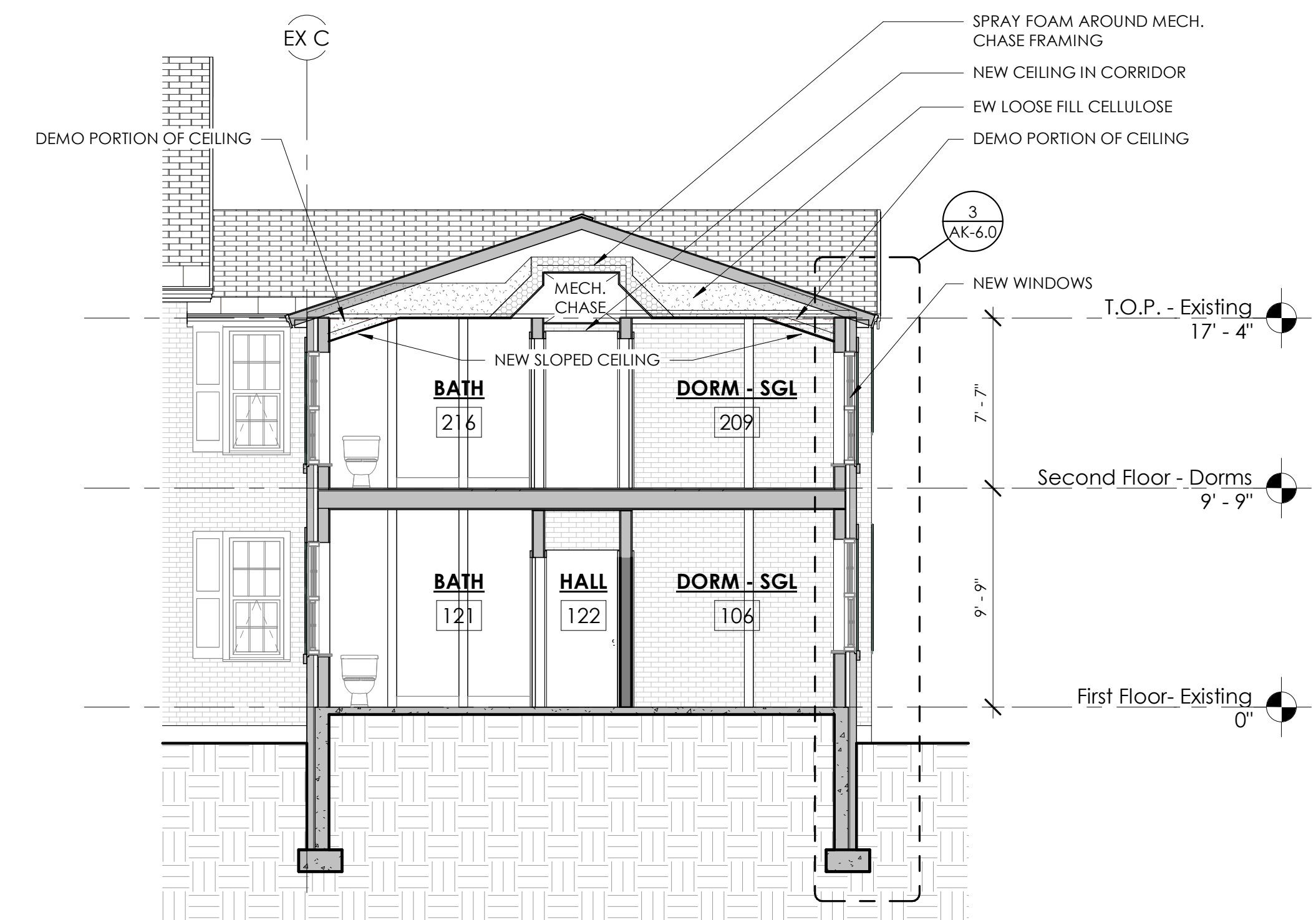
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

KILTON
BUILDING
SECTIONS AT
EXISTING

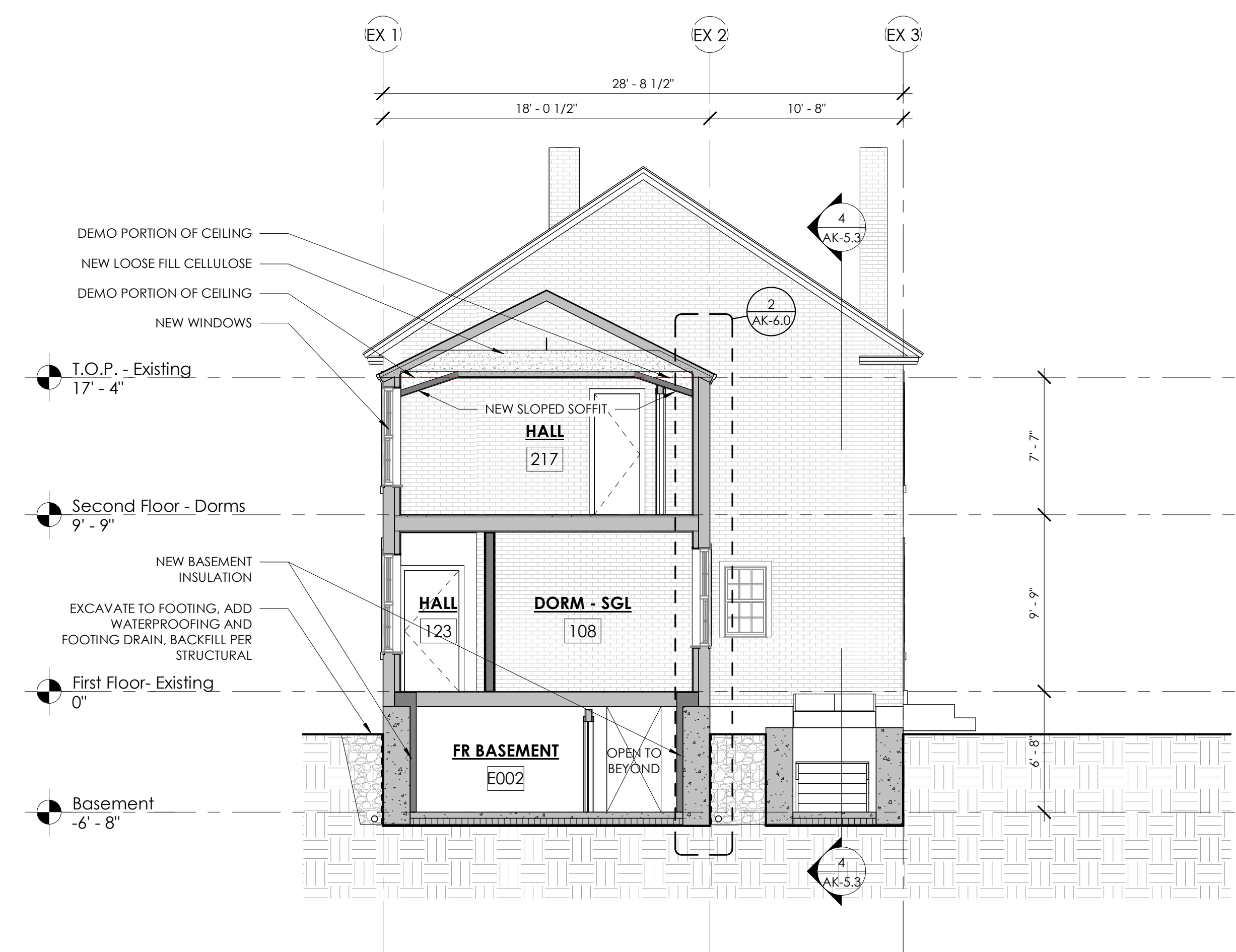
AK-5.0



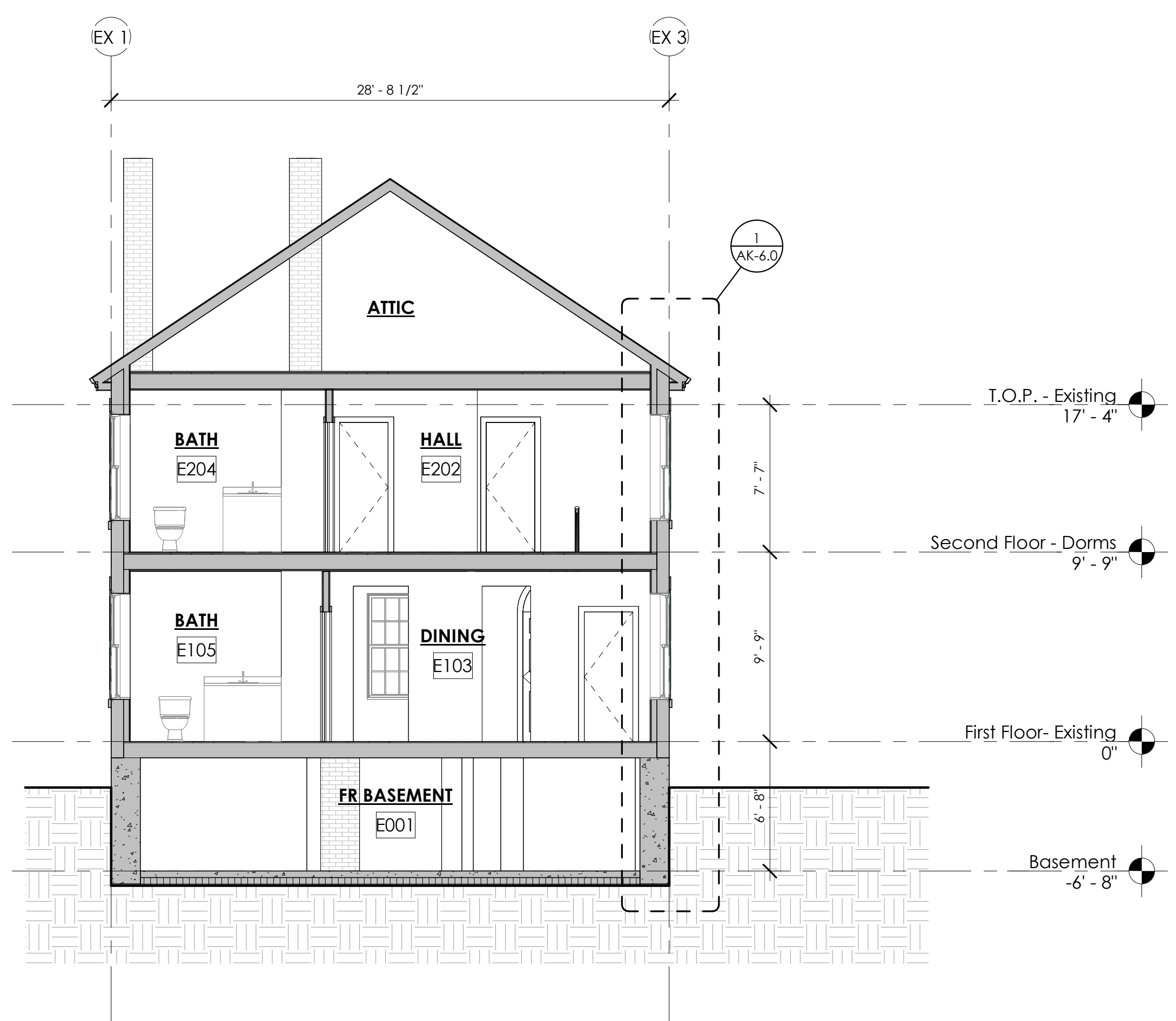
3 N-S Section at Existing West Wing
3/16" = 1'-0"

- SECTION GENERAL NOTES:**
1. VERIFY ALL DIMENSIONS IN-FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES ARISE.
 2. SEE AK-0.5 FOR ASSEMBLY TYPE INFORMATION.
 3. SEE STRUCTURAL DRAWINGS FOR SPECIFIC INFO ON STRUCTURAL ELEMENTS.

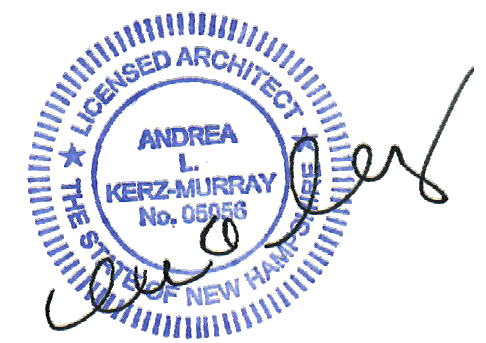
- FLOOR PLAN LEGEND**
- EXISTING WALL
 - EXISTING CONCRETE WALL
 - EXISTING MASONRY WALL
 - NEW WALL/NEW WALL INFILL



2 E-W Section of Existing East Wing Dorms
3/16" = 1'-0"



1 E-W Section of Existing East Wing Faculty Residence
3/16" = 1'-0"



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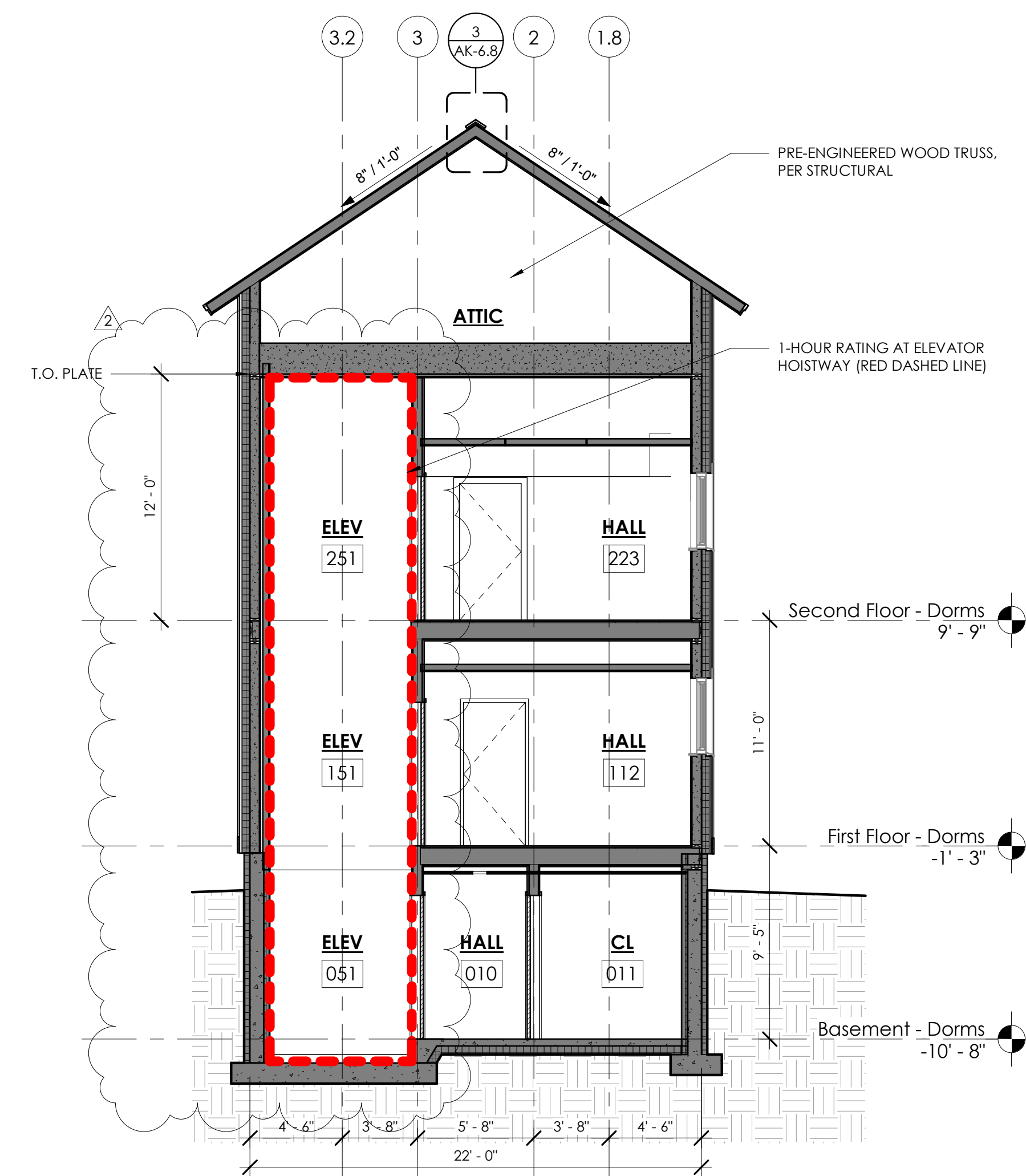
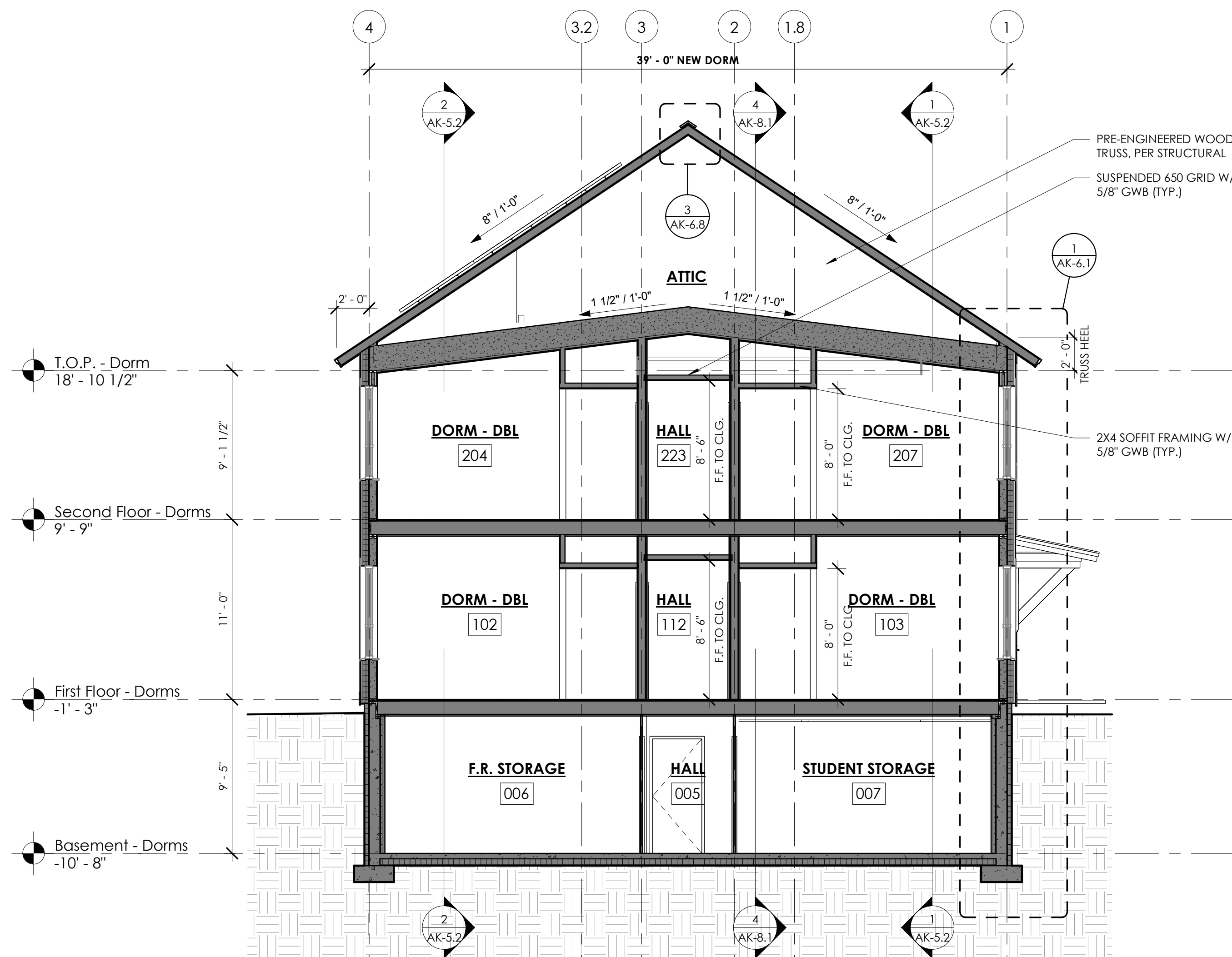
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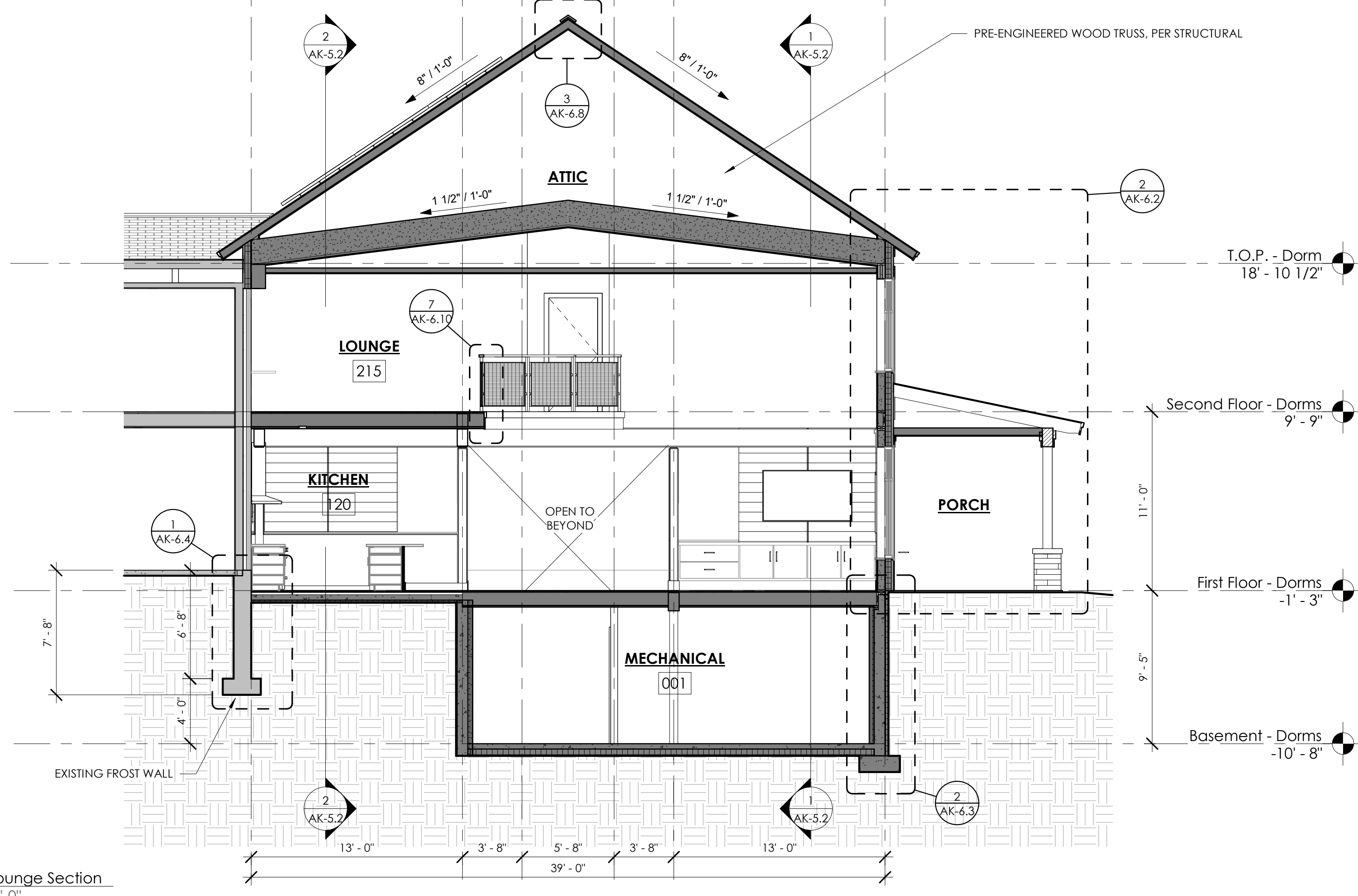
KILTON
BUILDING
SECTIONS AT NEW

AK-5.1



2 E-W Section at Dorms
3/16" = 1'-0"

3 E-W Section at Elevator
3/16" = 1'-0"

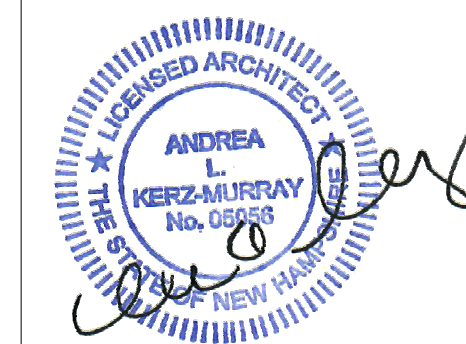


1 Dining/Lounge Section
3/16" = 1'-0"

- SECTION GENERAL NOTES:**
- VERIFY ALL DIMENSIONS IN-FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES ARISE.
 - SEE AK-0.5 FOR ASSEMBLY TYPE INFORMATION.
 - SEE STRUCTURAL DRAWINGS FOR SPECIFIC INFO ON STRUCTURAL ELEMENTS.

FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL



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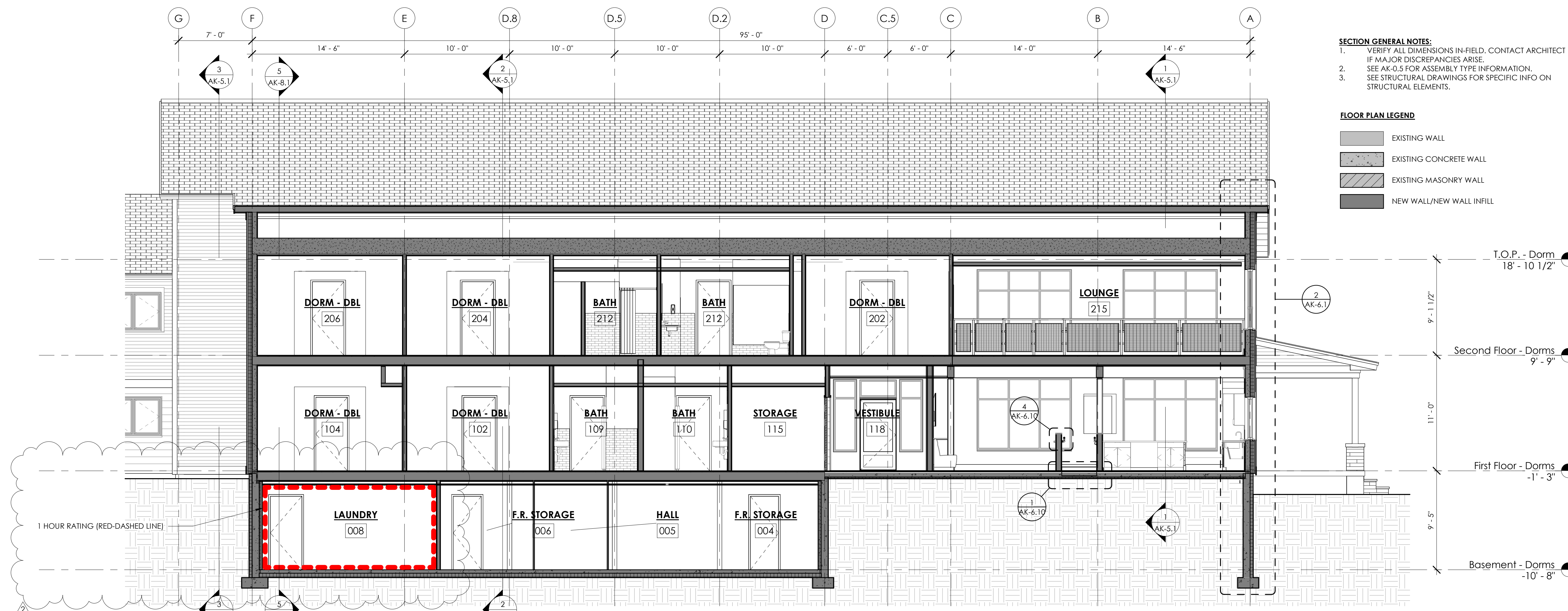
KILTON
BUILDING
SECTIONS AT NEW

AK-5.2

SECTION GENERAL NOTES:
1. VERIFY ALL DIMENSIONS IN-FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES ARISE.
2. SEE AK-0.5 FOR ASSEMBLY TYPE INFORMATION.
3. SEE STRUCTURAL DRAWINGS FOR SPECIFIC INFO ON STRUCTURAL ELEMENTS.

FLOOR PLAN LEGEND

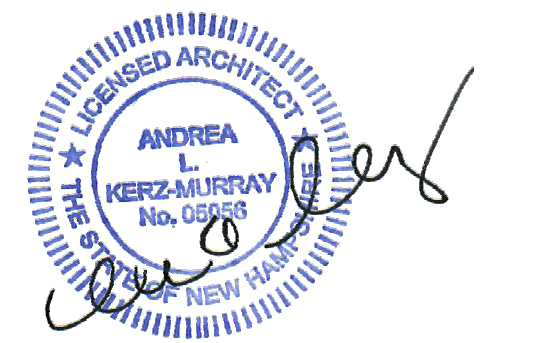
- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL



2 N-S Section at Dorm East Lounge
3/16" = 1'-0"



1 N-S Section at Dorm Full Height Lounge
3/16" = 1'-0"



#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

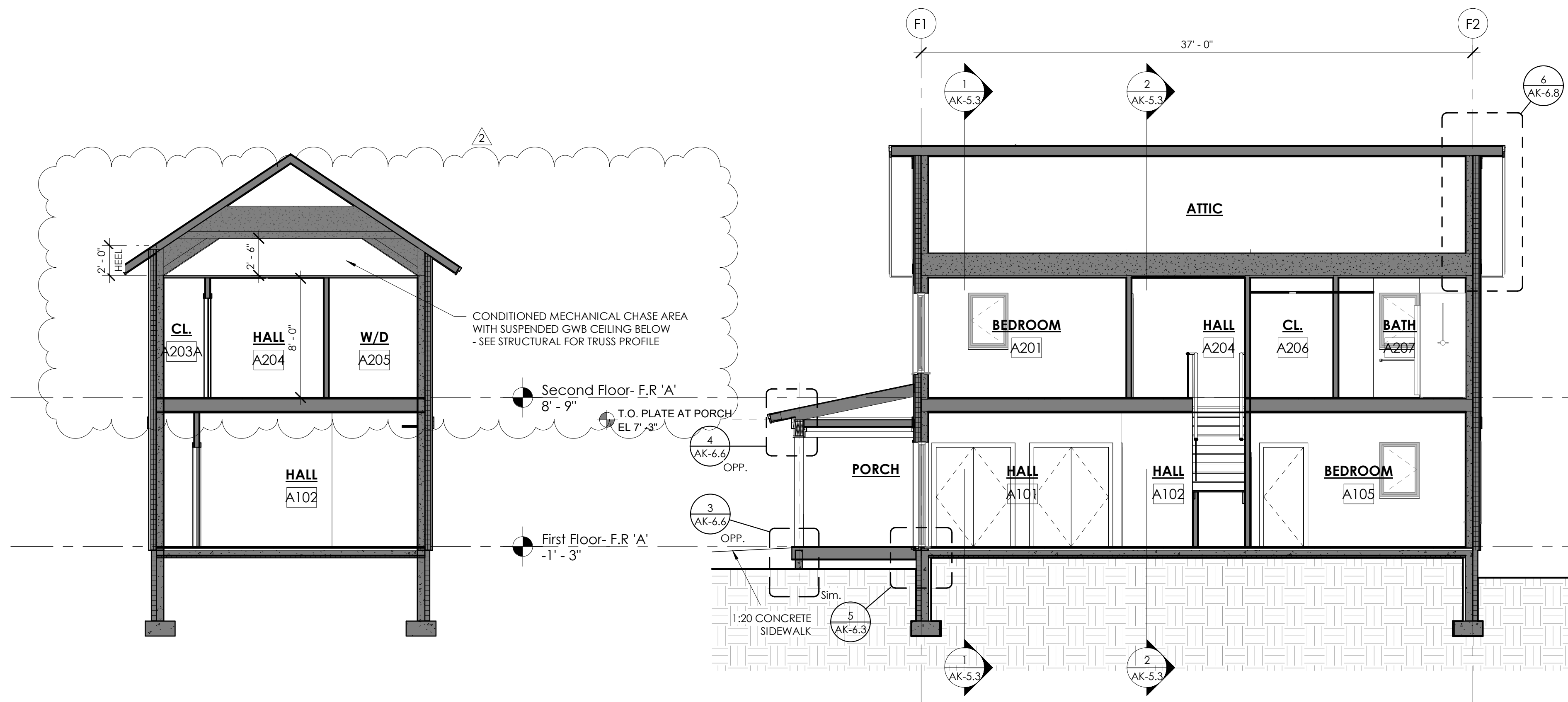
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KUA
KILTON/WELCH
DORMITORIES

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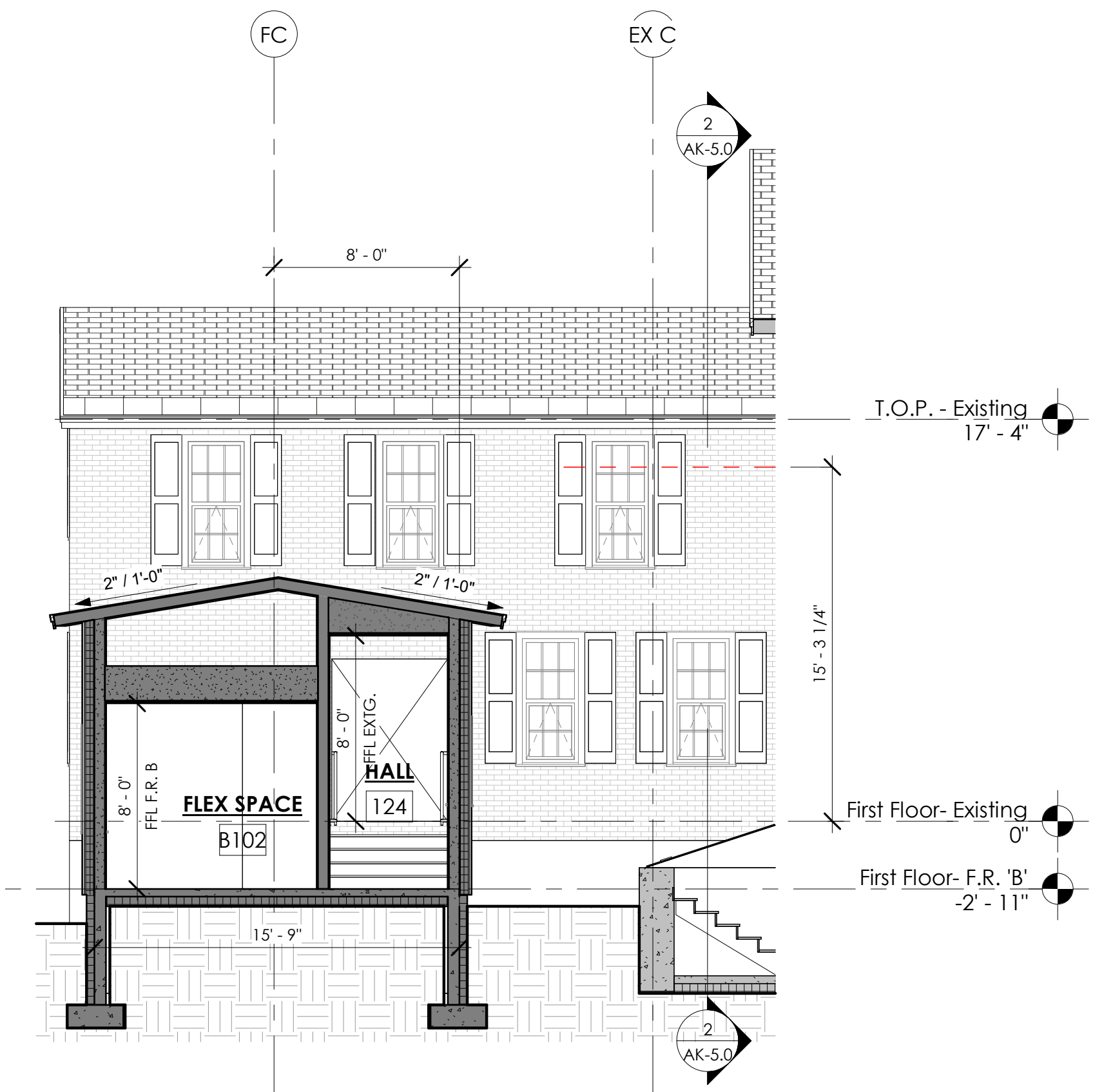
KILTON
BUILDING
SECTIONS AT NEW

AK-5.3



5 Building Section @ FR Connector
3/16" = 1'-0"

3 E-W Section at Faculty Residence
3/16" = 1'-0"

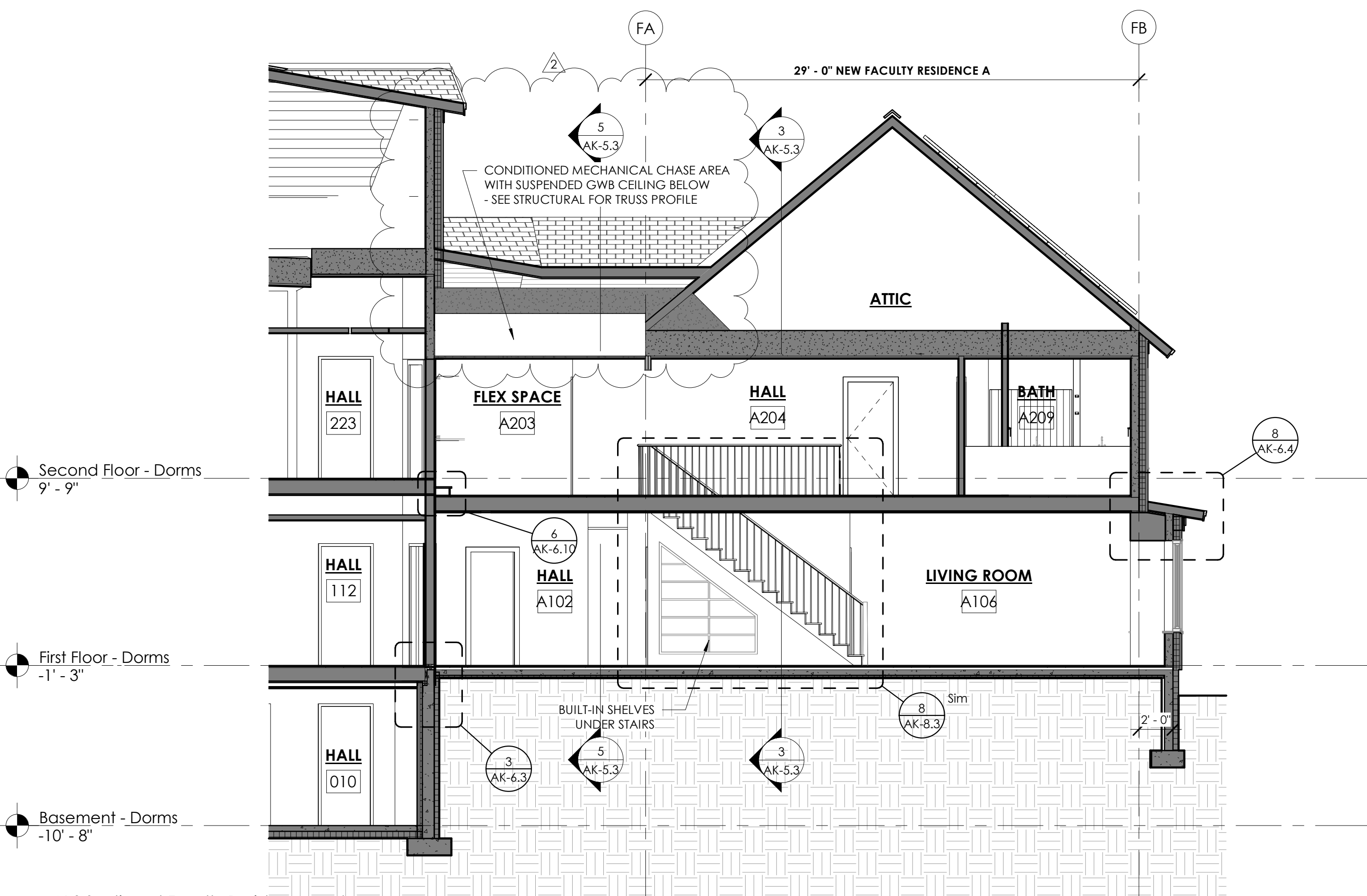


4 N-S Section at Connector to F.R. B
3/16" = 1'-0"

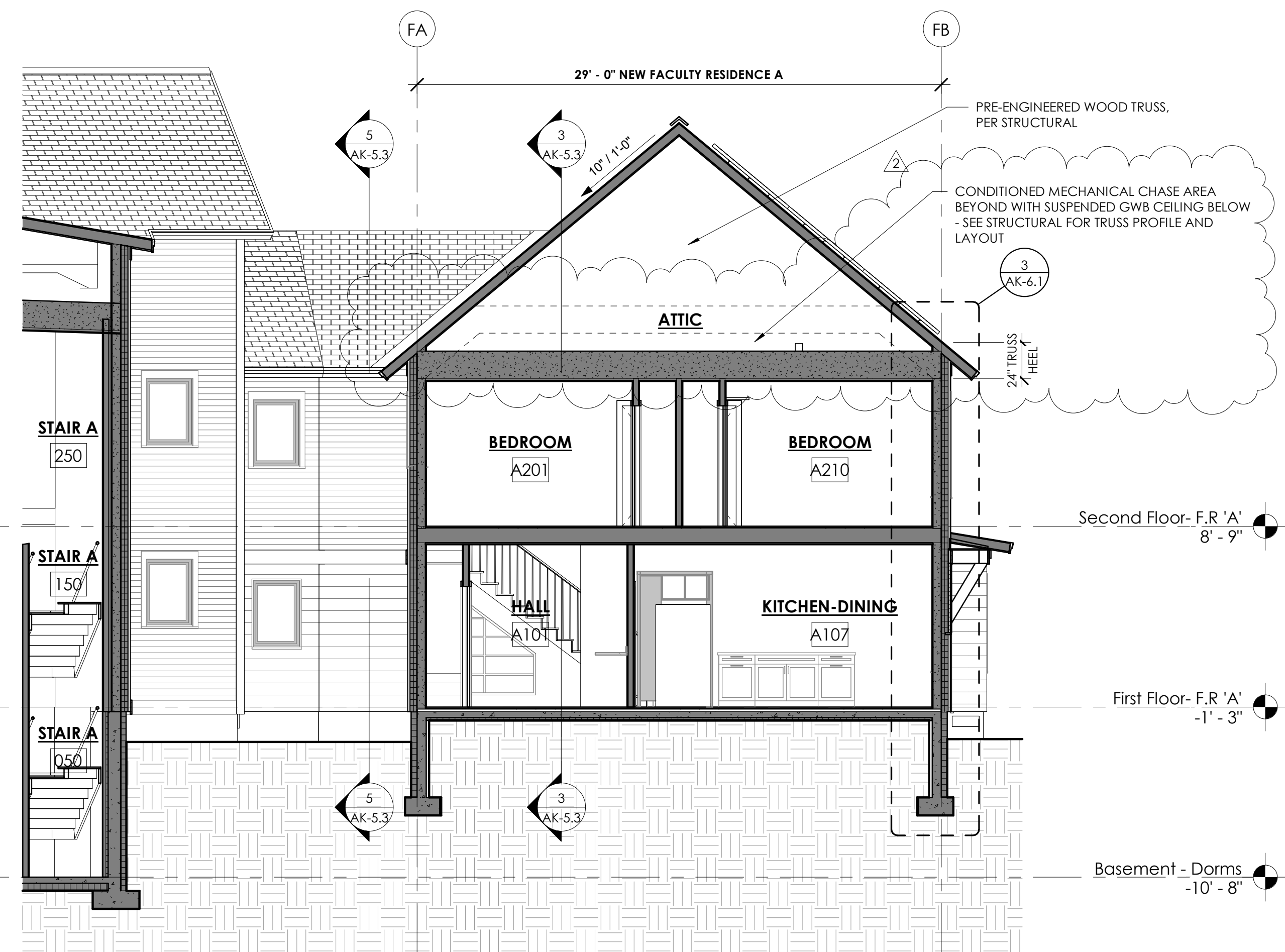
- SECTION GENERAL NOTES:**
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 - SEE AK-0.5 FOR ASSEMBLY TYPE INFORMATION.
 - SEE STRUCTURAL DRAWINGS FOR SPECIFIC INFO ON STRUCTURAL ELEMENTS.

FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL



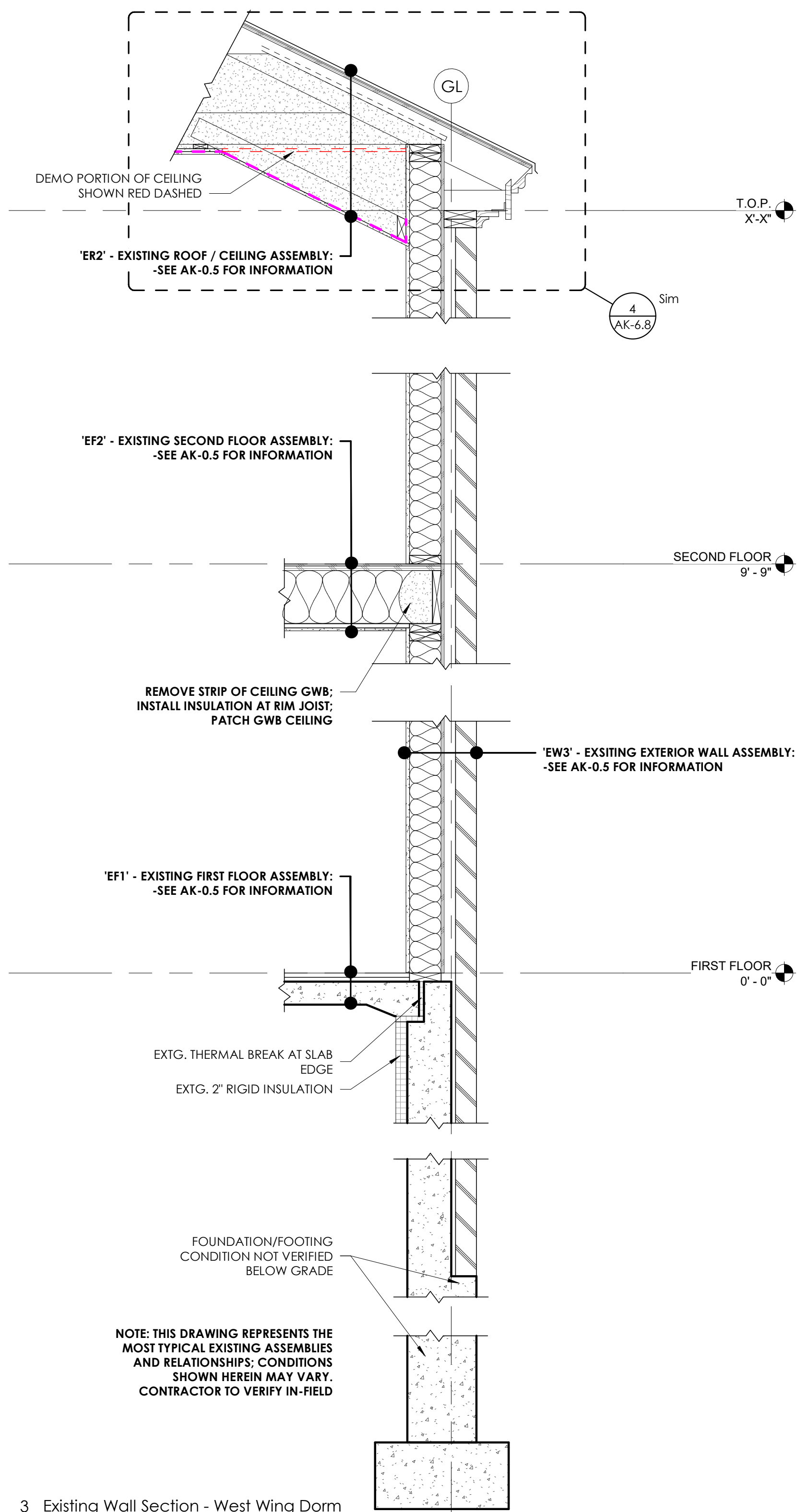
N-S Section at Faculty Residence and
2 Connector
3/16" = 1'-0"



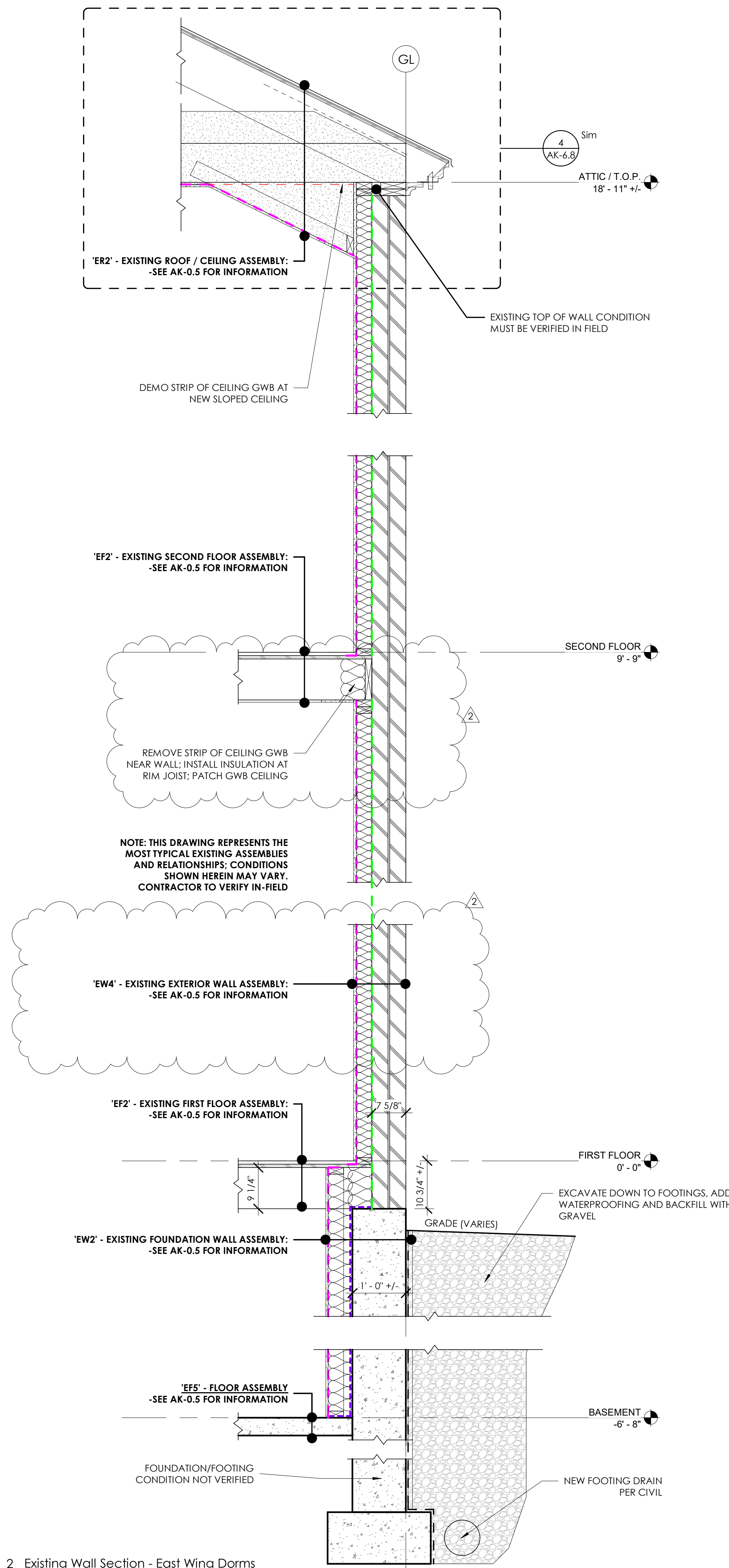
1 N-S Section at Faculty Residence
3/16" = 1'-0"

SECTION DETAILS AND MATERIALS LEGEND

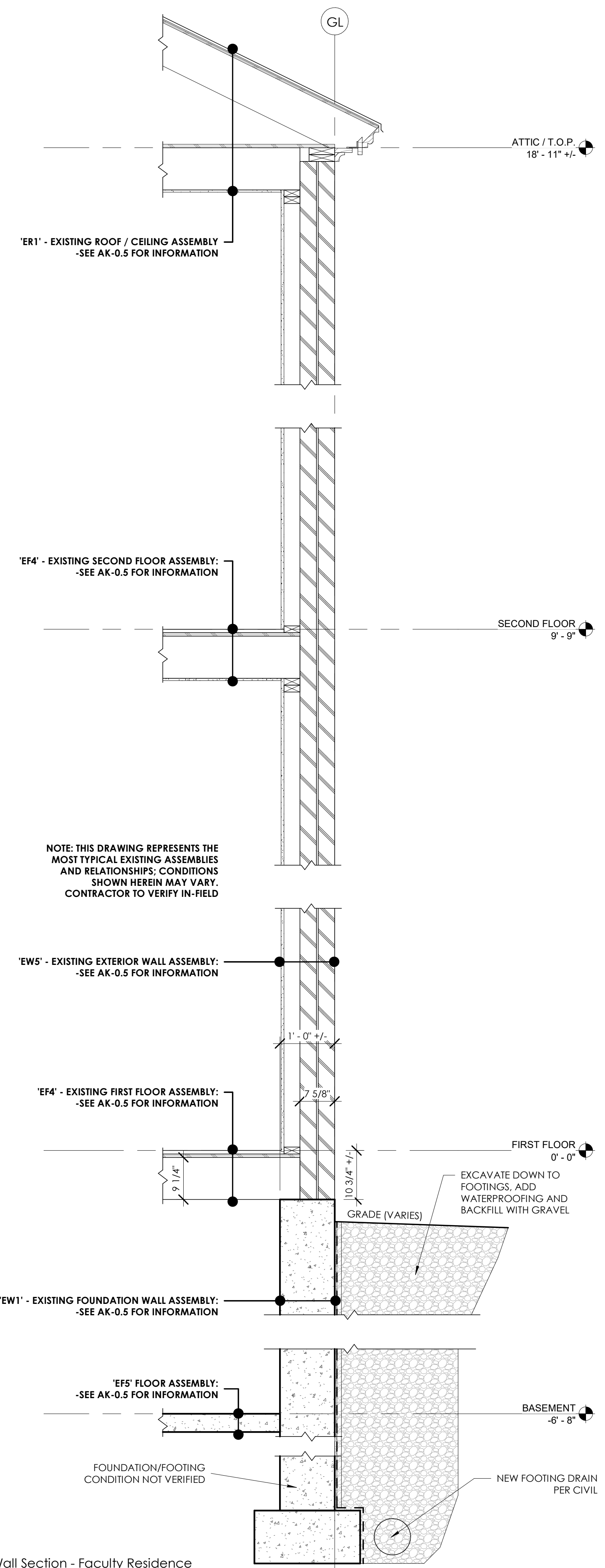
	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		BLOCKING
	RIGID FOAM INSULATION		PLYWOOD
	FILL INSULATION		
	RIGID MINERAL WOOL INSULATION		
	BATT INSULATION		



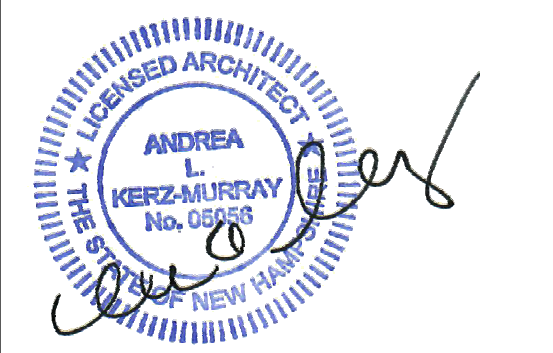
3 Existing Wall Section - West Wing Dorm
3/4" = 1'-0"



2 Existing Wall Section - East Wing Dorms
3/4" = 1'-0"



1 Existing Wall Section - Faculty Residence
3/4" = 1'-0"



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2	05/15/23	Scope Changes to Bid Set #1

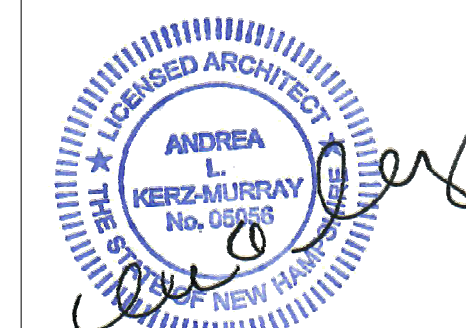
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

KILTON
EXTERIOR WALL
SECTIONS AT
EXISTING

AK-6.0



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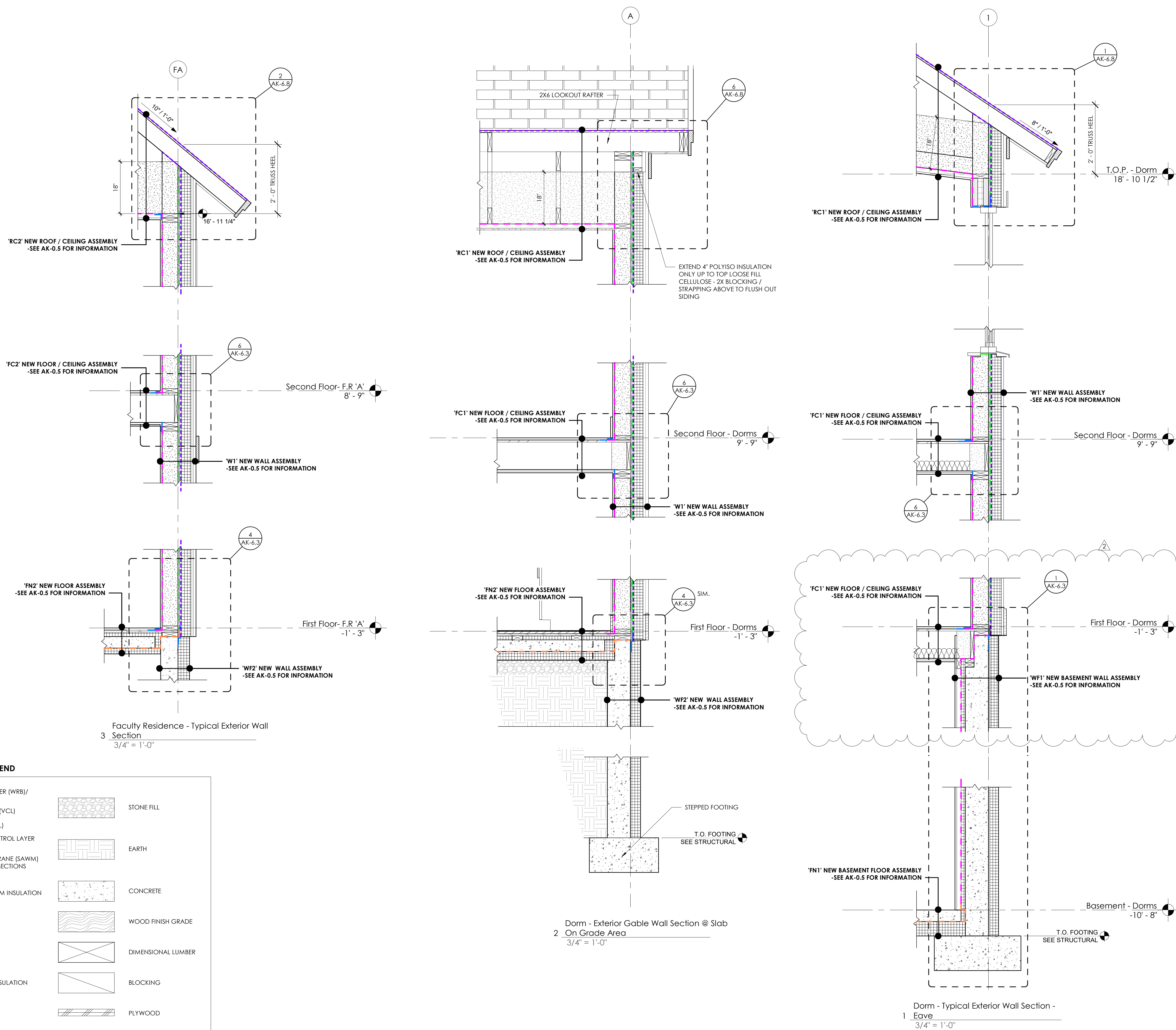
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

KILTON
EXTERIOR WALL
SECTIONS AT NEW

AK-6.1

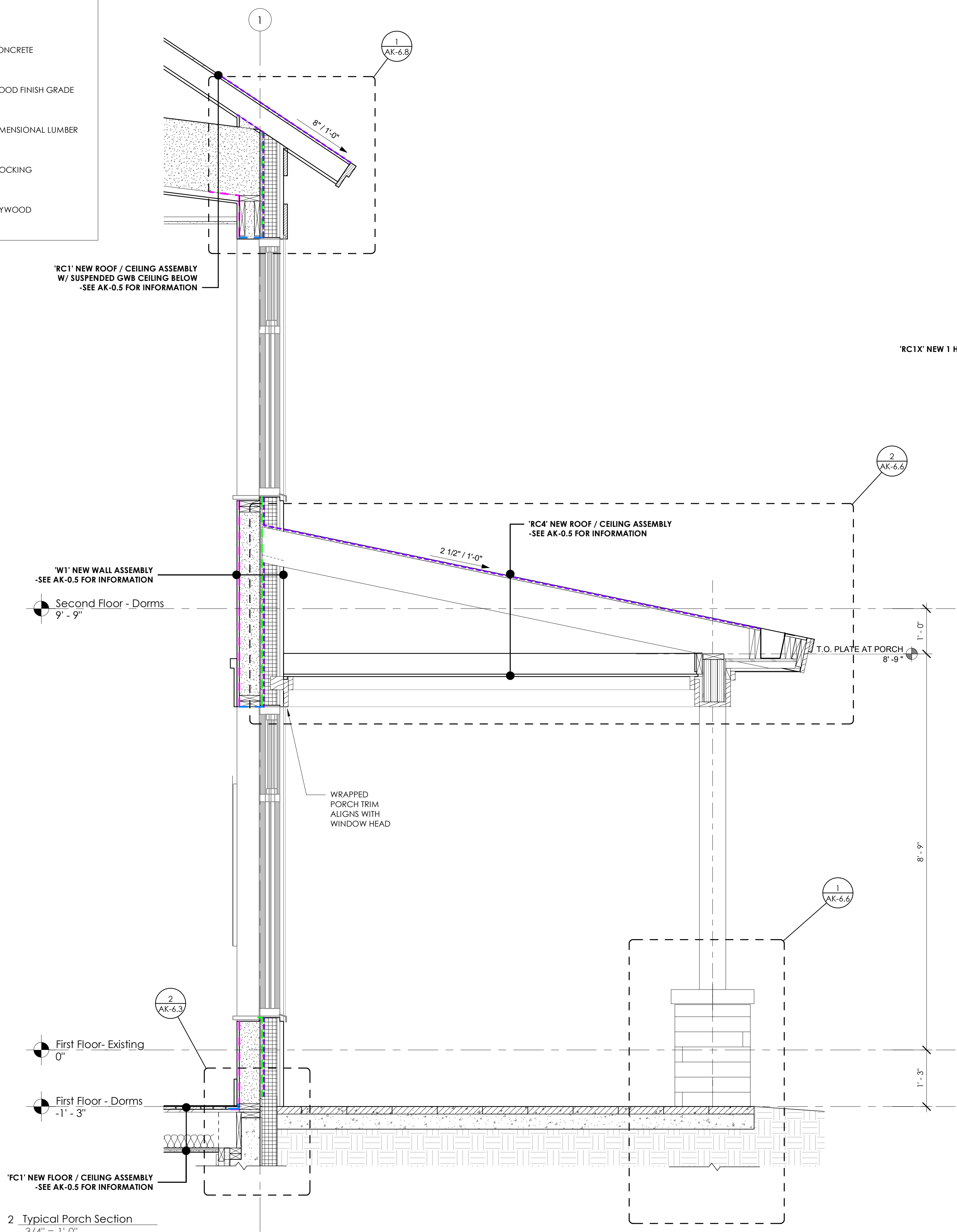


SECTION DETAILS AND MATERIALS LEGEND

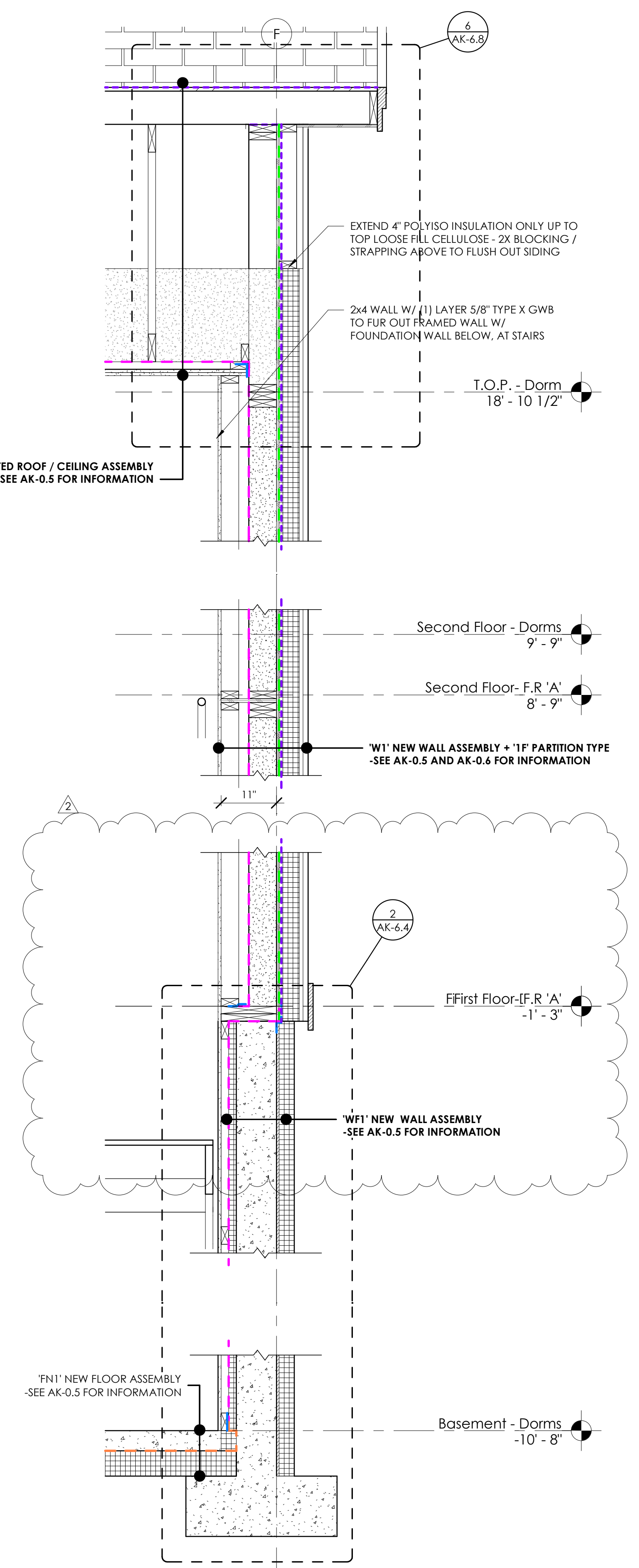
	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		CONCRETE
	RIGID FOAM INSULATION		WOOD FINISH GRADE
	FILL INSULATION		DIMENSIONAL LUMBER
	RIGID MINERAL WOOL INSULATION		BLOCKING
	BATT INSULATION		PLYWOOD

SECTION DETAILS AND MATERIALS LEGEND

	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		BLOCKING
	RIGID FOAM INSULATION		PLYWOOD
	FILL INSULATION		
	RIGID MINERAL WOOL INSULATION		
	BATT INSULATION		



2 Typical Porch Section
3/4" = 1'-0"



Typical Exterior Wall Section at Vertical
1 Circulation
3/4" = 1'-0"

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P.O. Box 862
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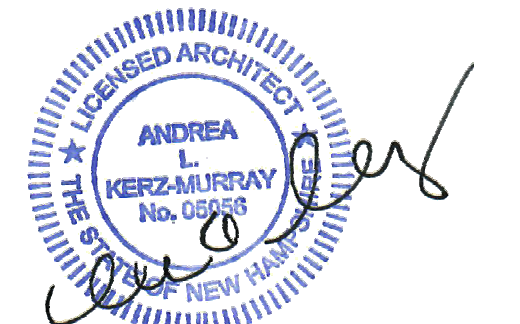
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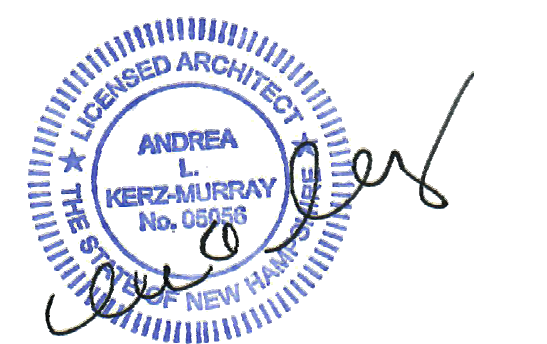
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KILTON
EXTERIOR WALL
SECTIONS AT NEW

AK-6.2



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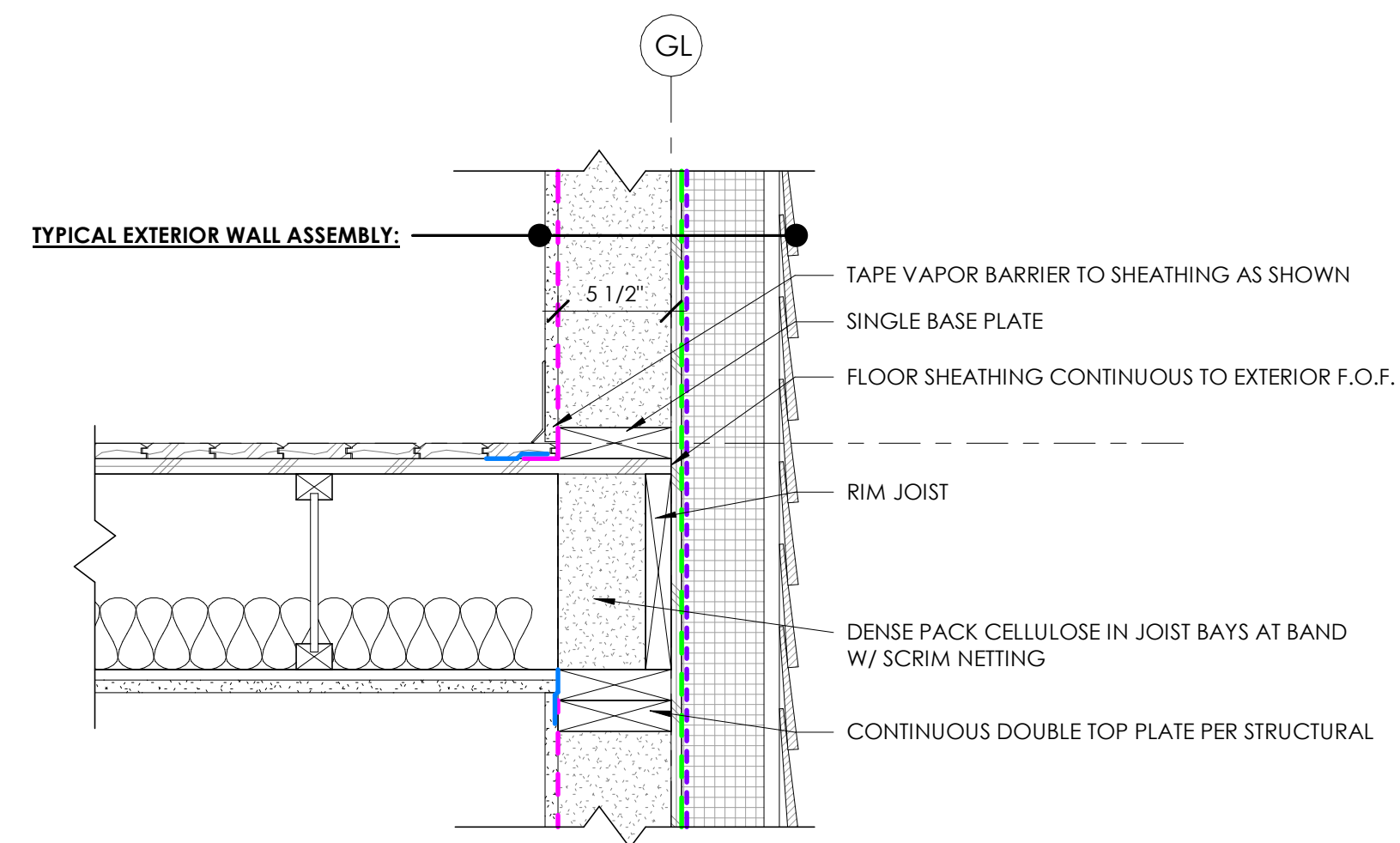
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

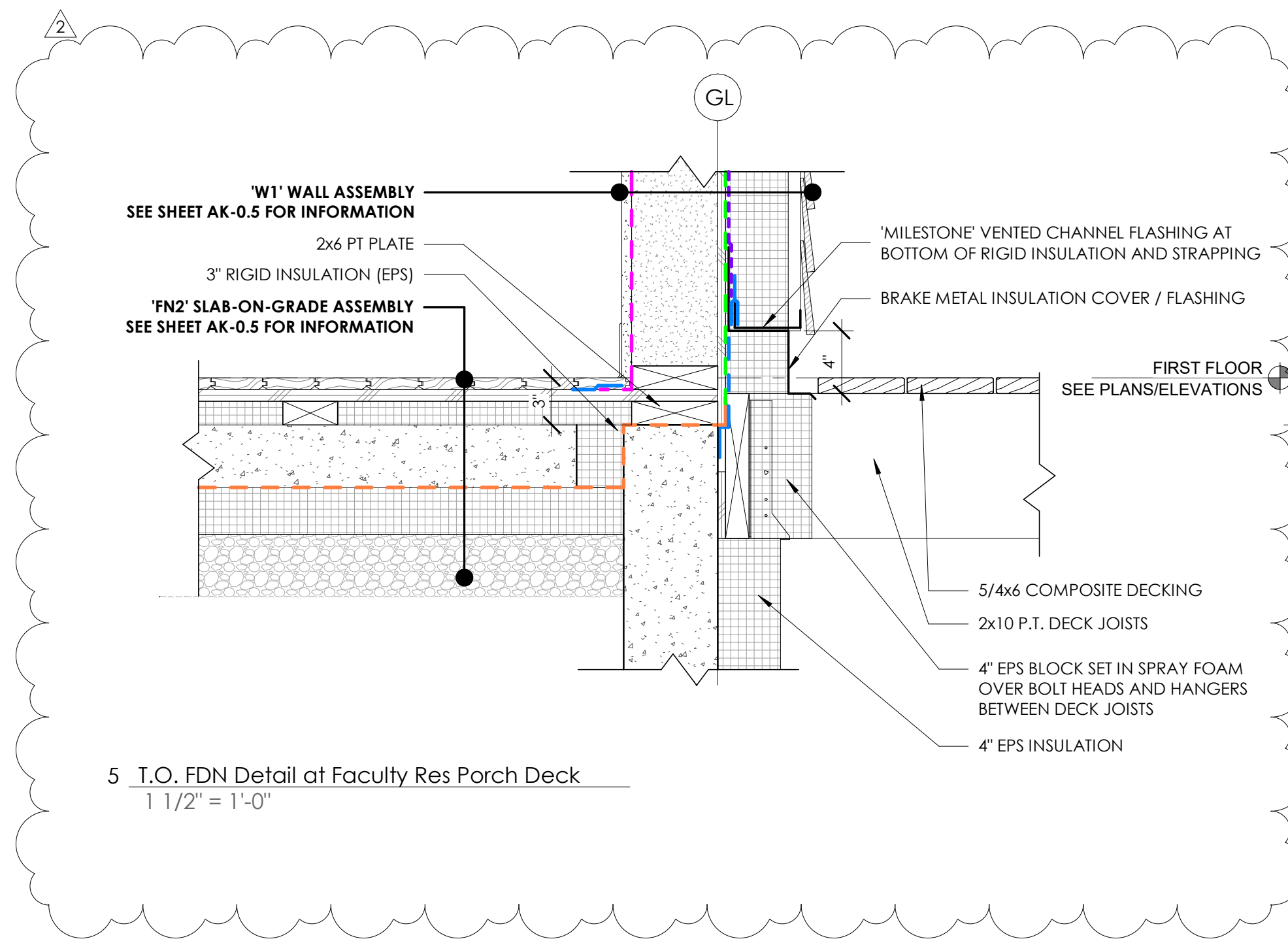
Main Street,
Meriden, NH 03770

KILTON
DETAILS

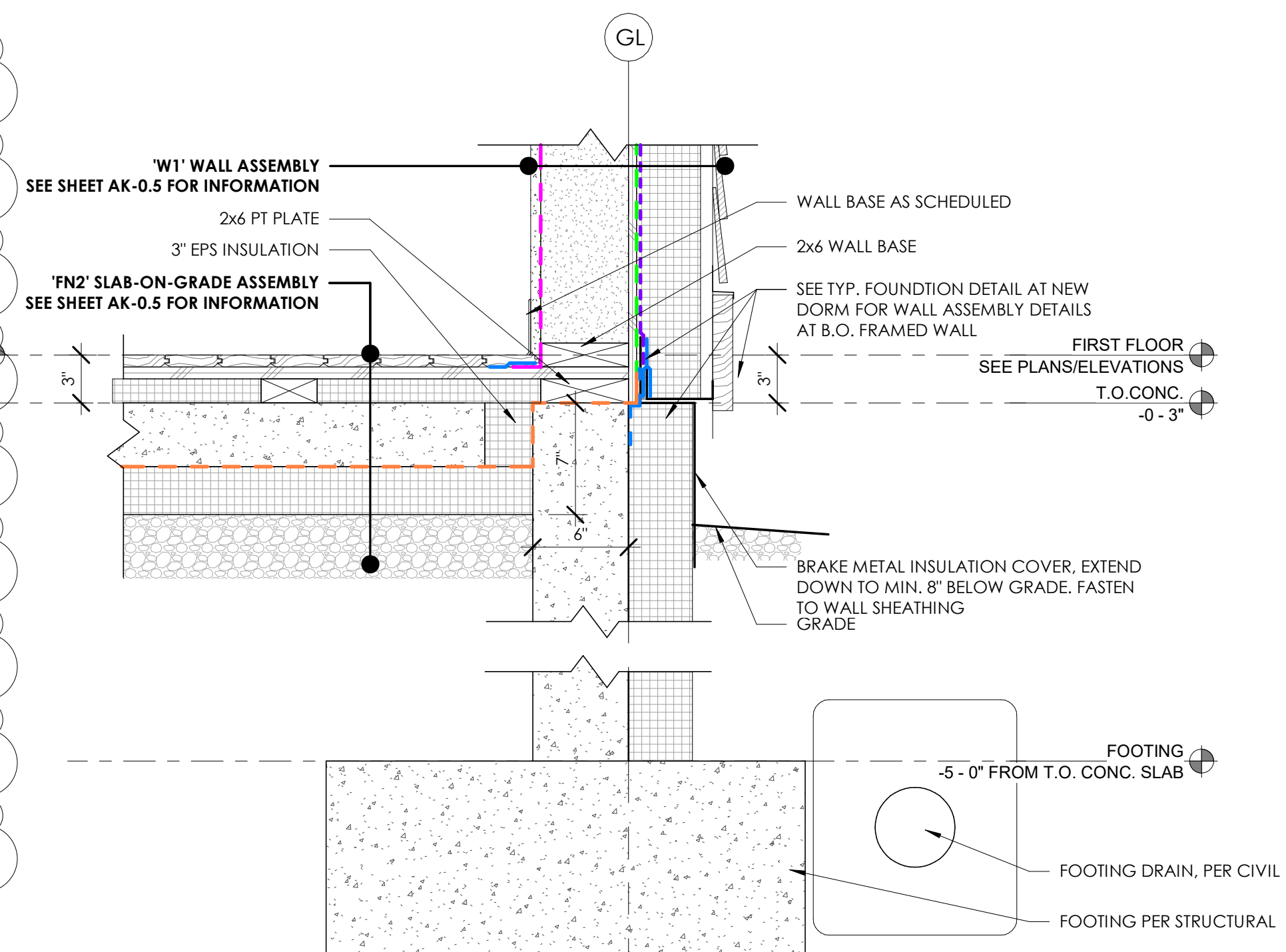
AK-6.3



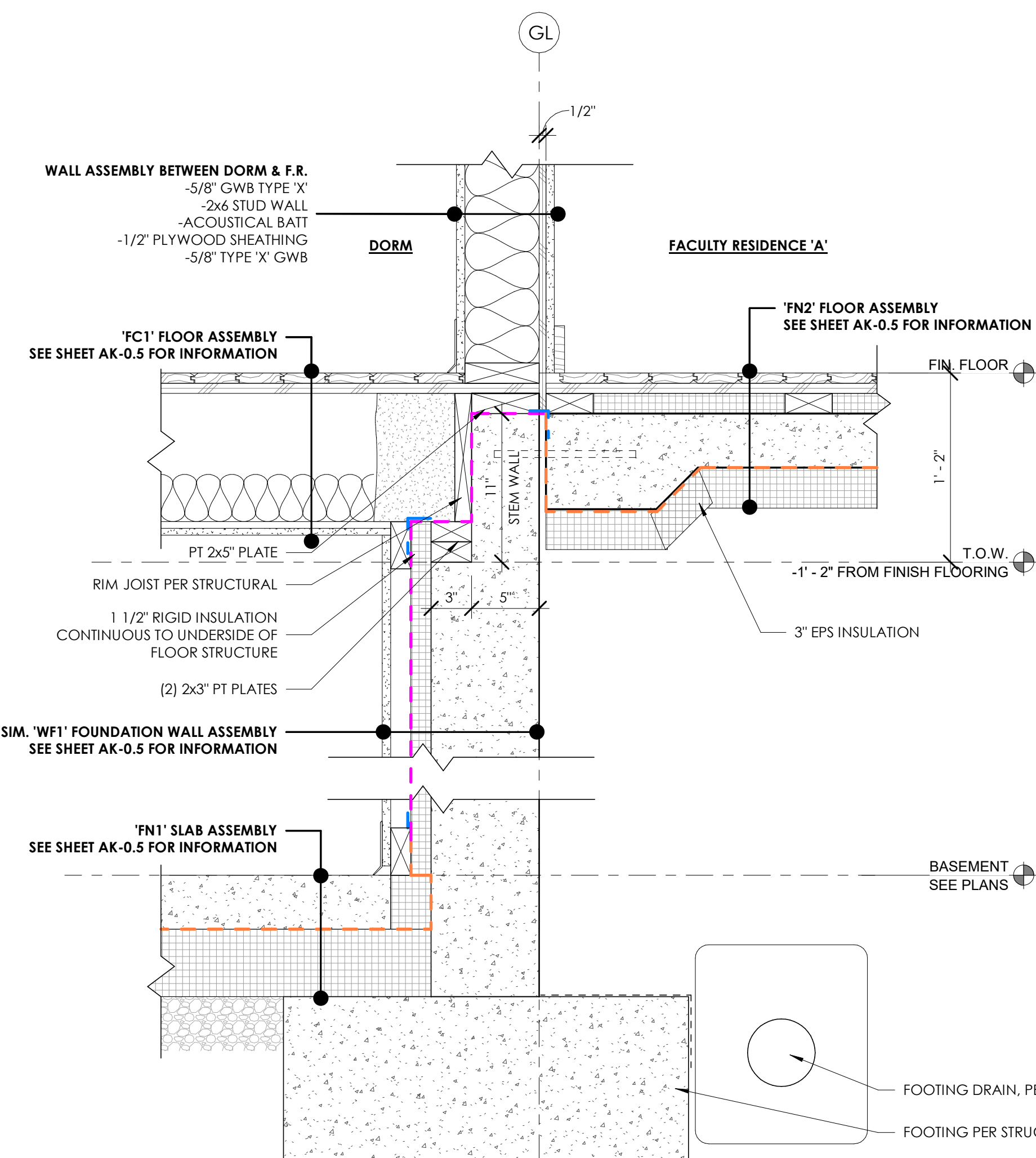
6 Typical Floor-Wall Detail
1 1/2" = 1'-0"



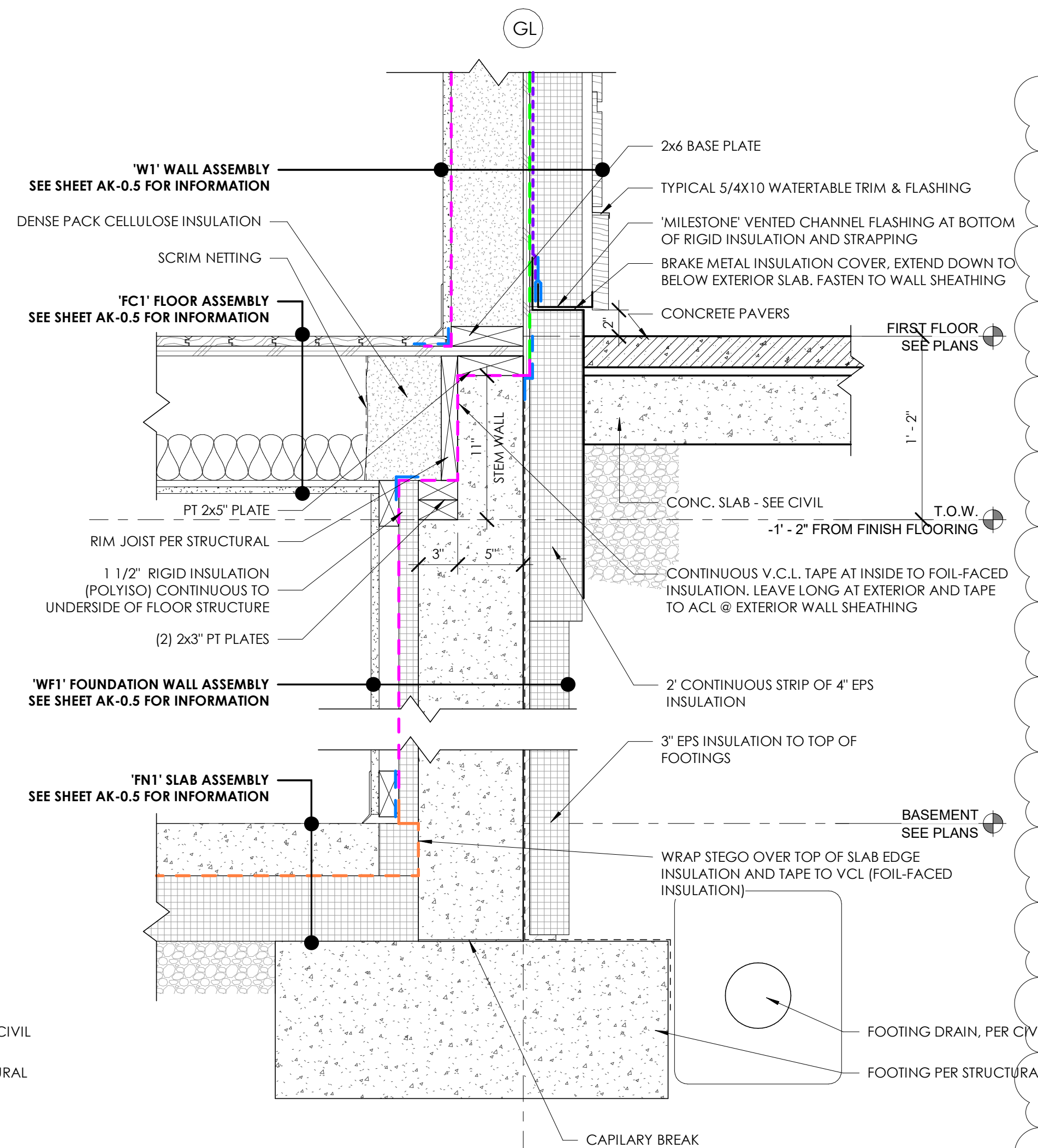
5 T.O. FDN Detail at Faculty Res Porch Deck
1 1/2" = 1'-0"



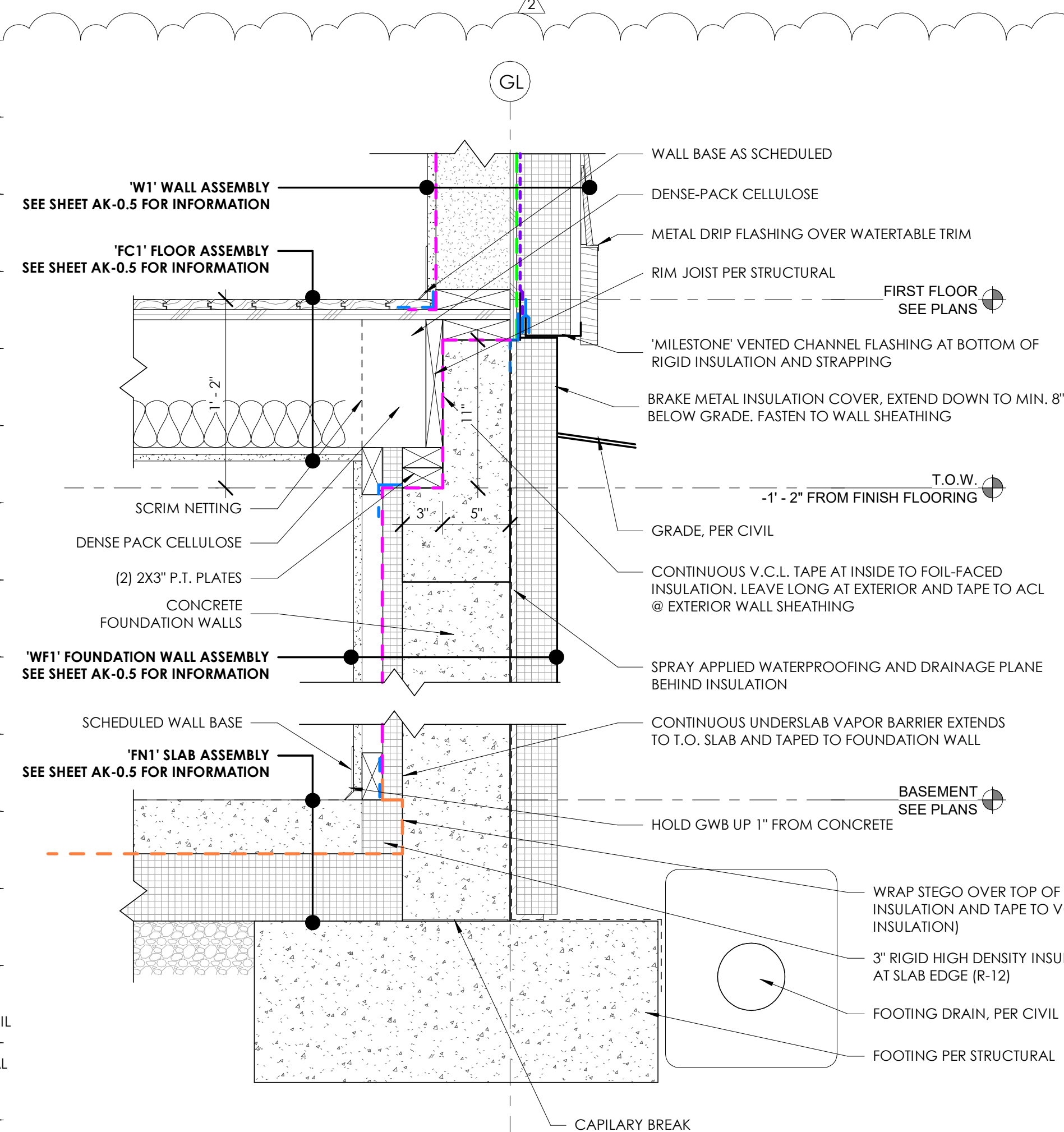
4 T.O. FDN Detail at Faculty Residence
1 1/2" = 1'-0"



T.O. FDN Detail Between Dorm & Faculty Residence
3
1 1/2" = 1'-0"



2 T.O. FDN Detail at New Dorm Plaza
1 1/2" = 1'-0"



1 T.O. FDN Detail at New Dorm TYP.
1 1/2" = 1'-0"



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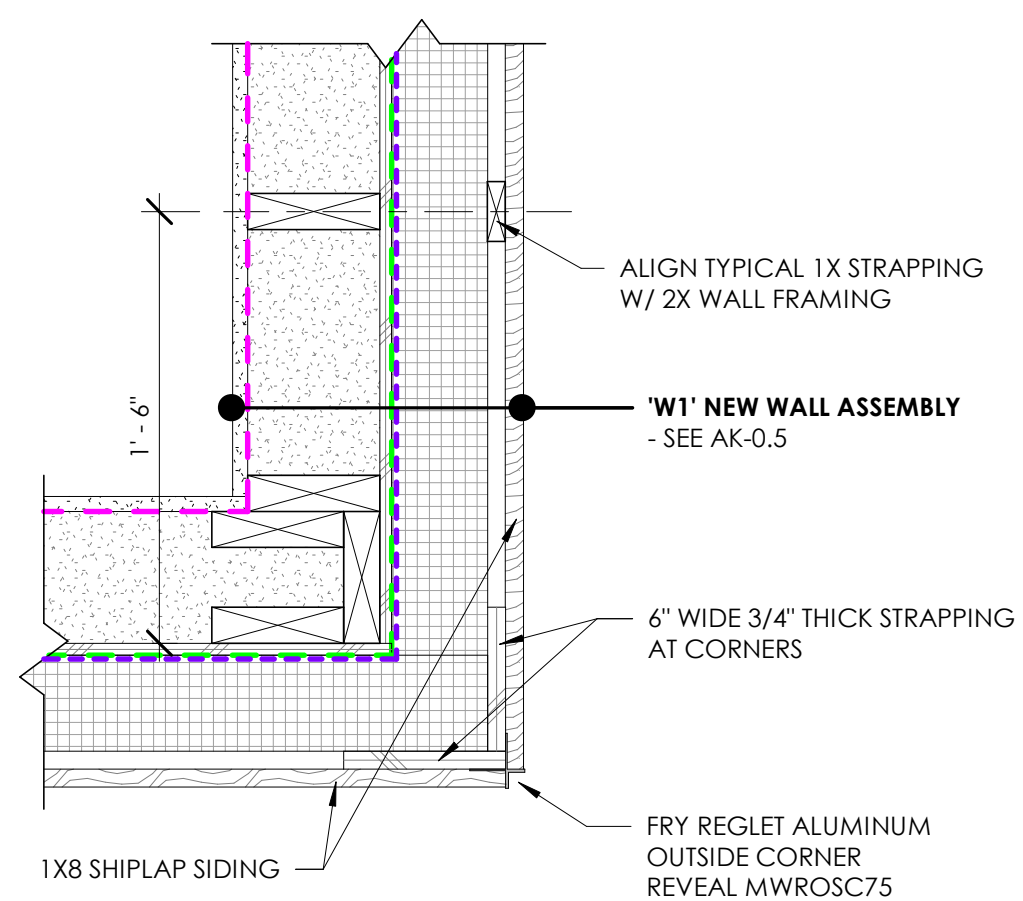
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

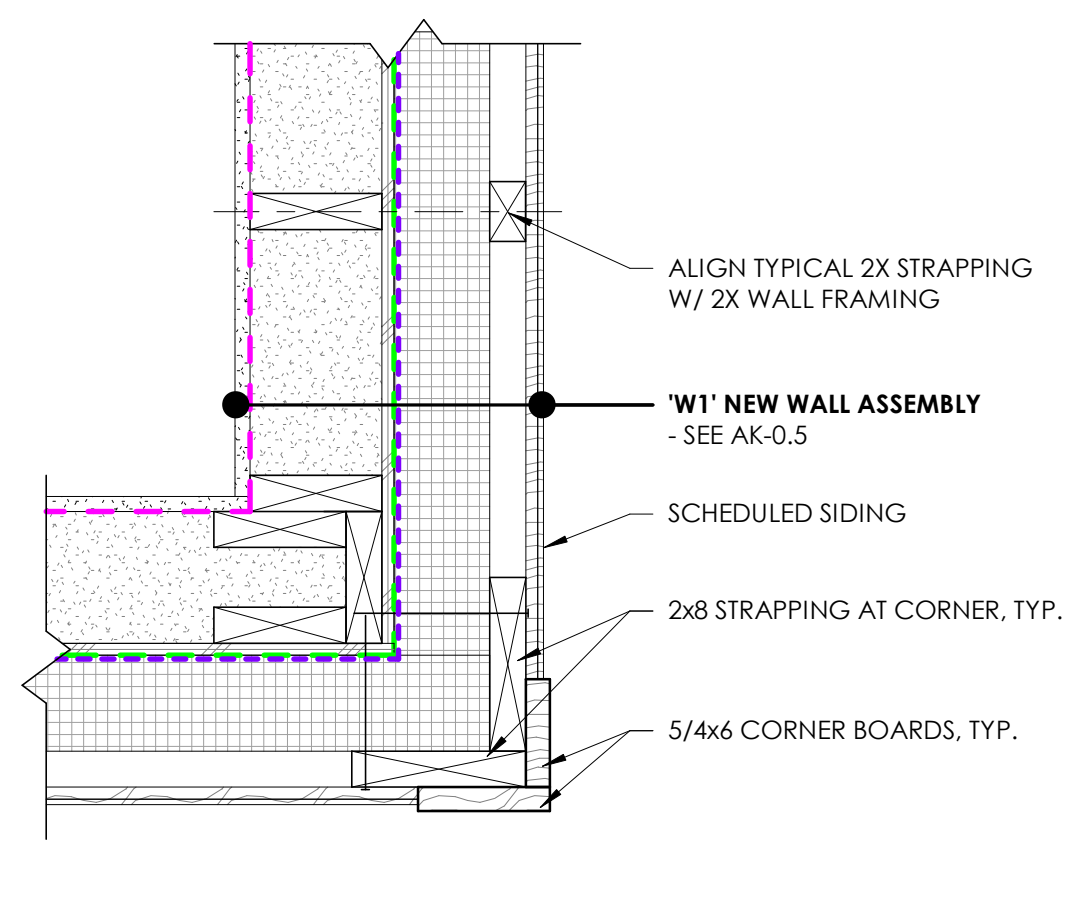
Main Street,
Meriden, NH 03770

KILTON
DETAILS

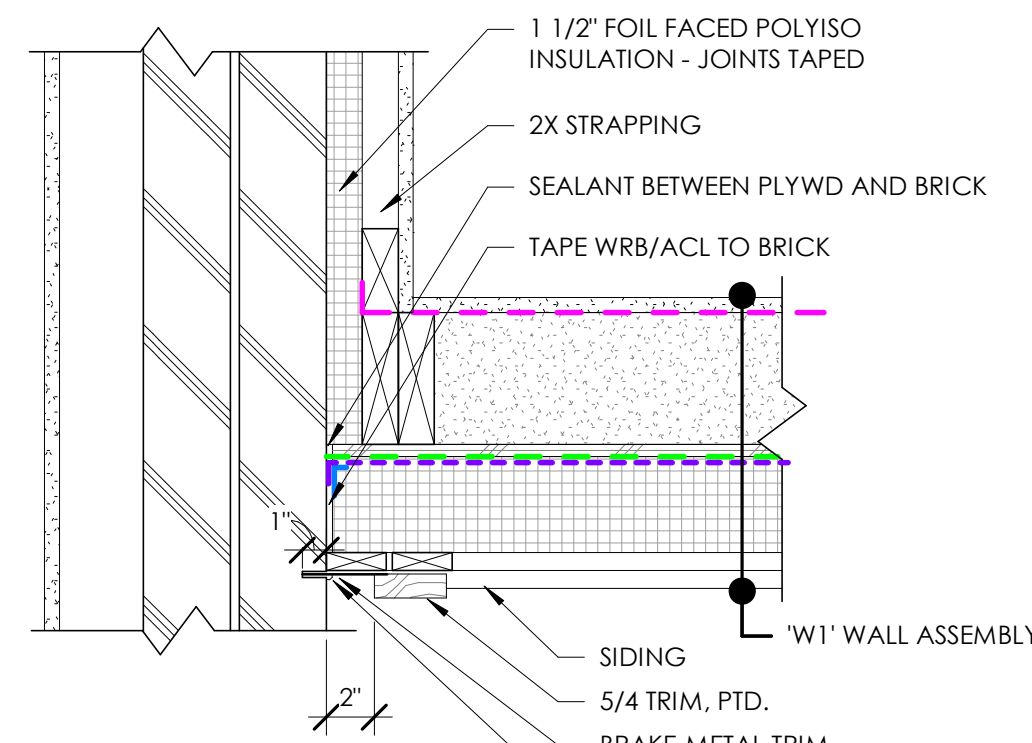
AK-6.4



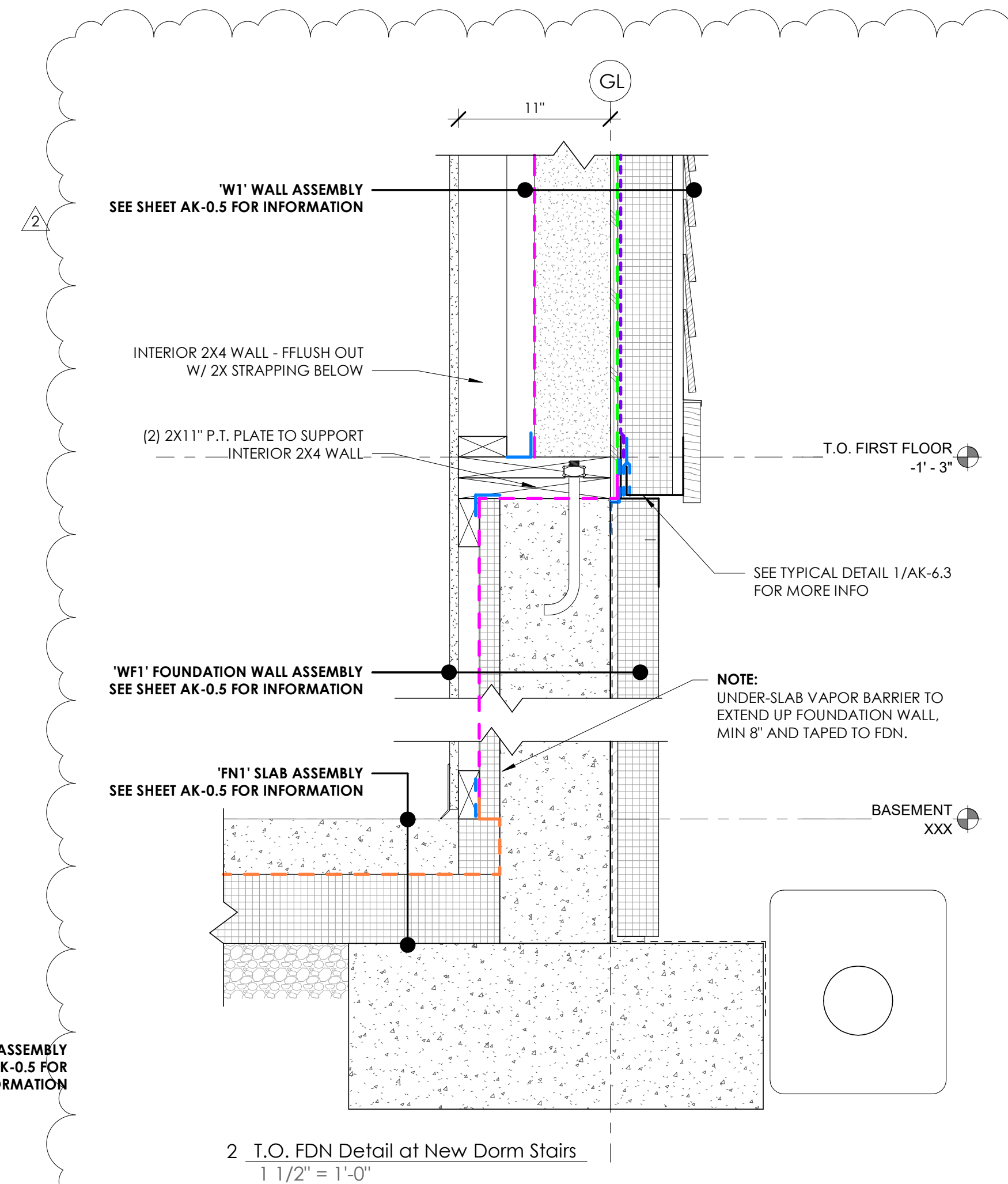
5 Plan Detail @ Siding Corner
1 1/2" = 1'-0"



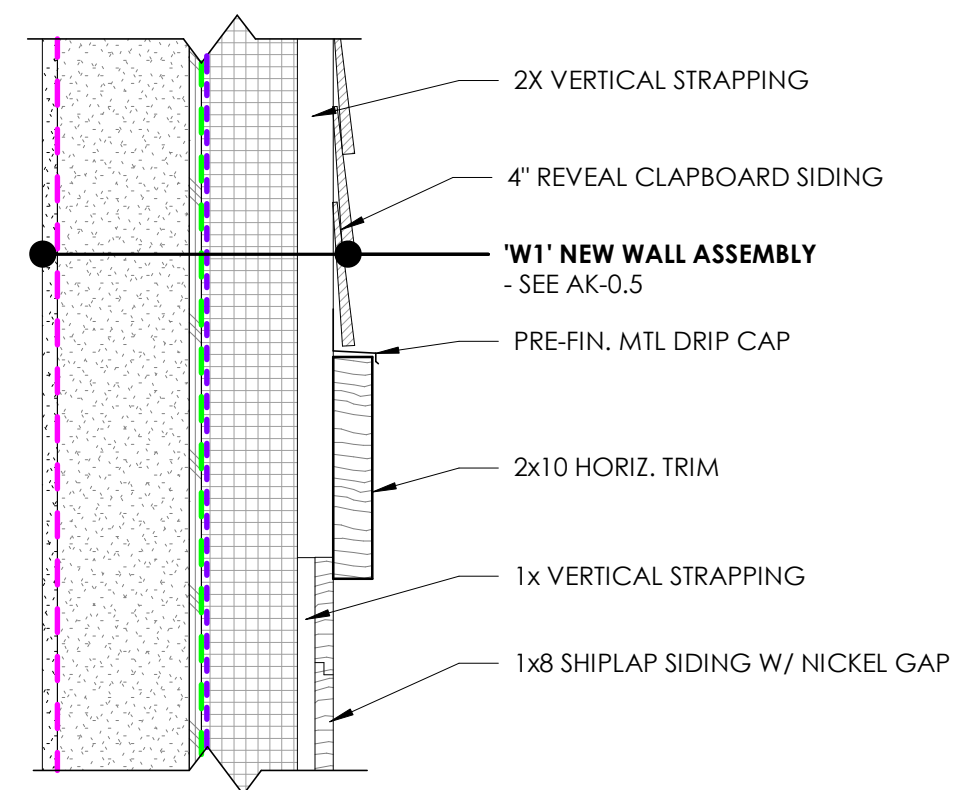
6 TYP. CLAPBOARD SIDING CORNER DETAIL
1 1/2" = 1'-0"



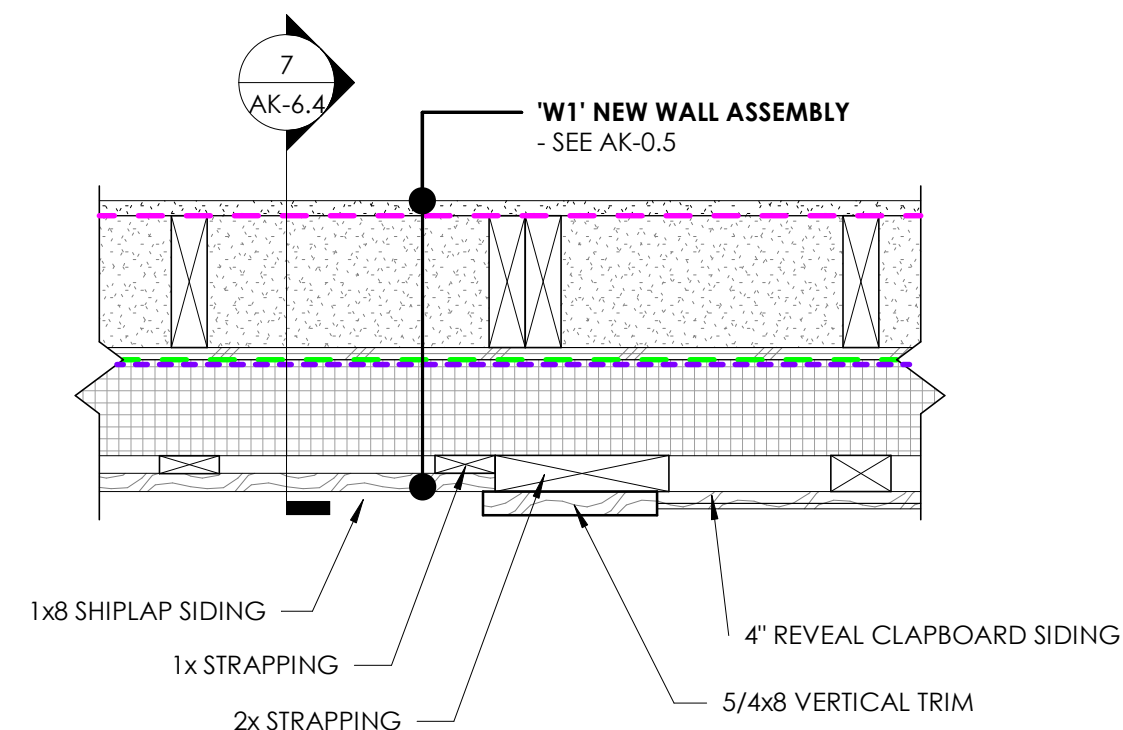
4 Plan Detail at FR & Existing Dorm
1 1/2" = 1'-0"



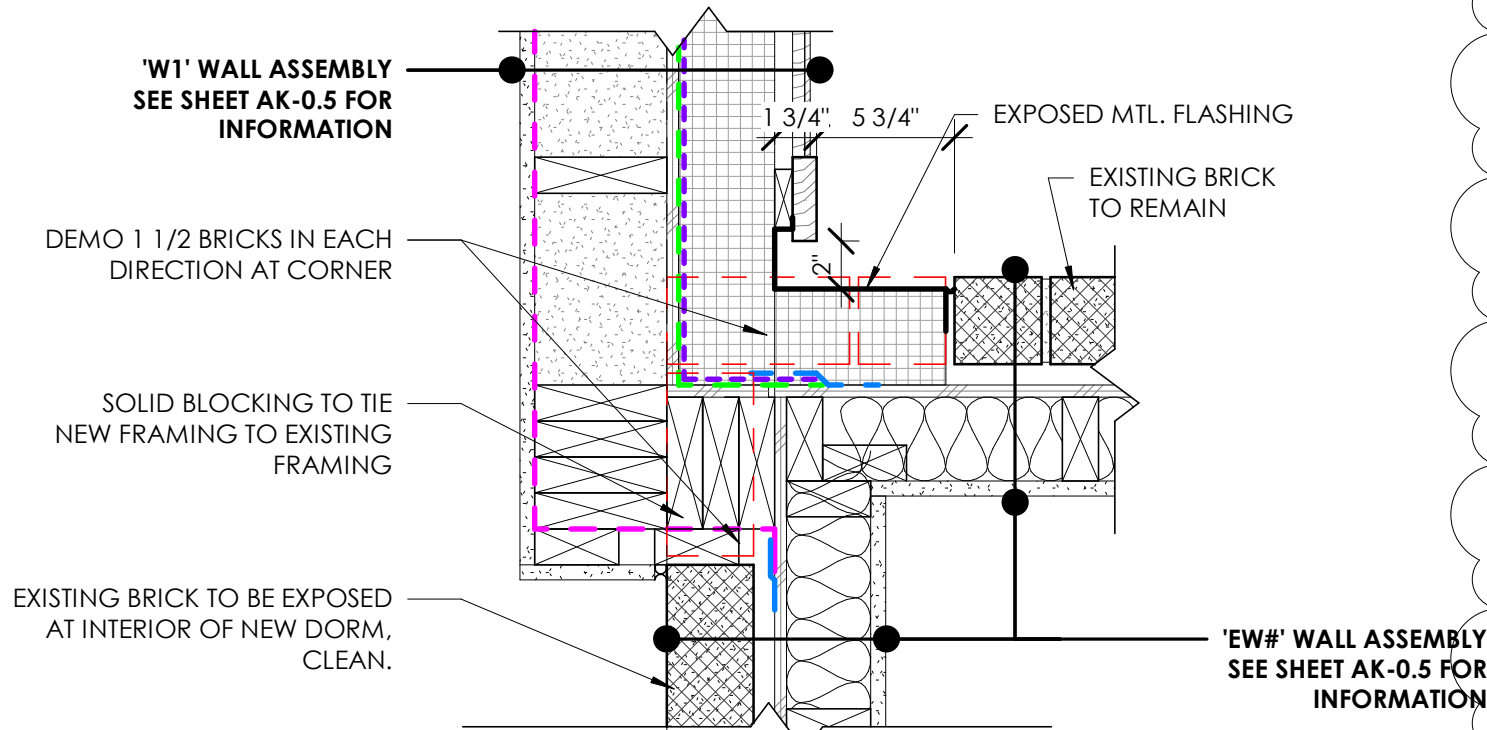
2 T.O. FDN Detail at New Dorm Stairs
1 1/2" = 1'-0"



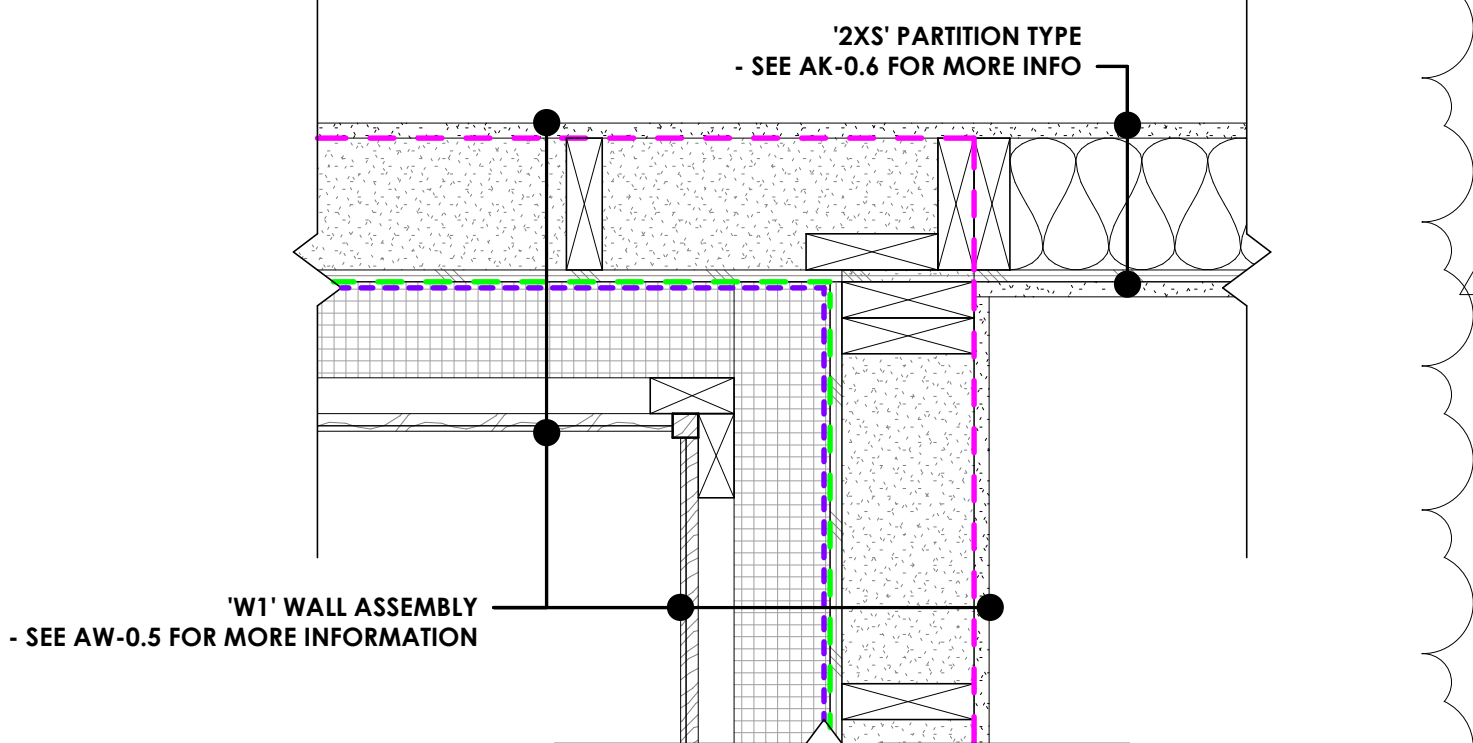
7 Detail @ Siding Transition
1 1/2" = 1'-0"



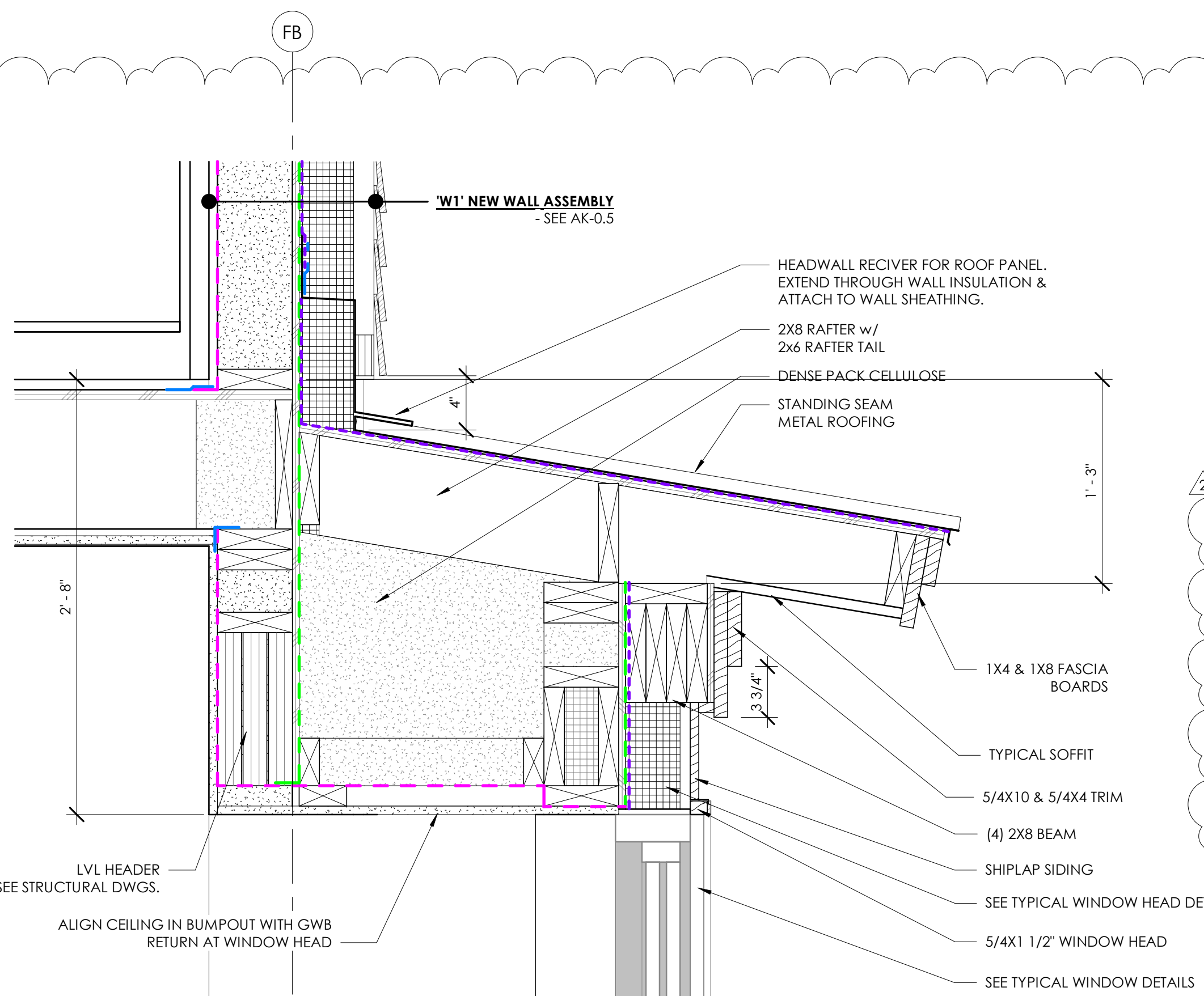
6 Plan Detail @ Siding Transition
1 1/2" = 1'-0"



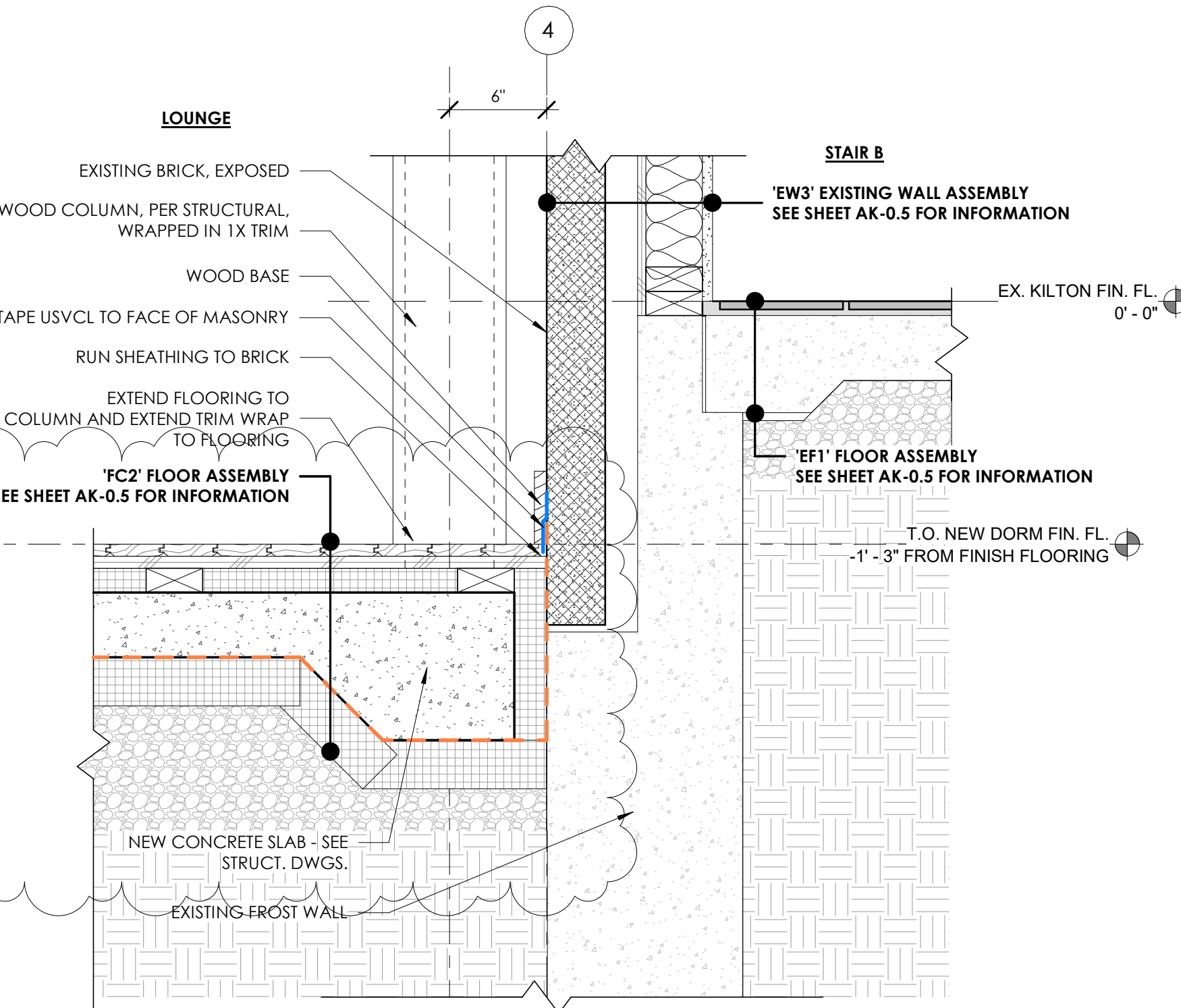
3 Plan Corner Detail Existing & New Dorm
1 1/2" = 1'-0"



9 Plan Detail @ Dorm / F.R. Junction
1 1/2" = 1'-0"



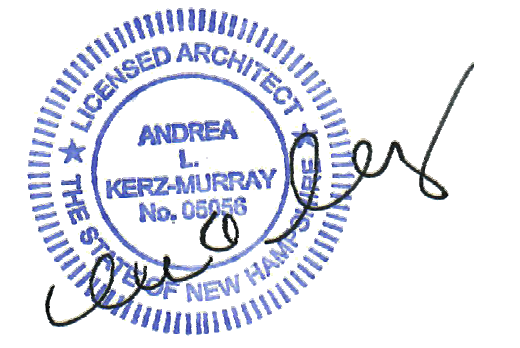
8 Canopy Detail @ F.R. Bump-out
1 1/2" = 1'-0"



1 Lounge
1 1/2" = 1'-0"

SECTION DETAILS AND MATERIALS LEGEND

	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		BLOCKING
	RIGID FOAM INSULATION		PLYWOOD
	FILL INSULATION		
	RIGID MINERAL WOOL INSULATION		
	BATT INSULATION		



#	Date	Description
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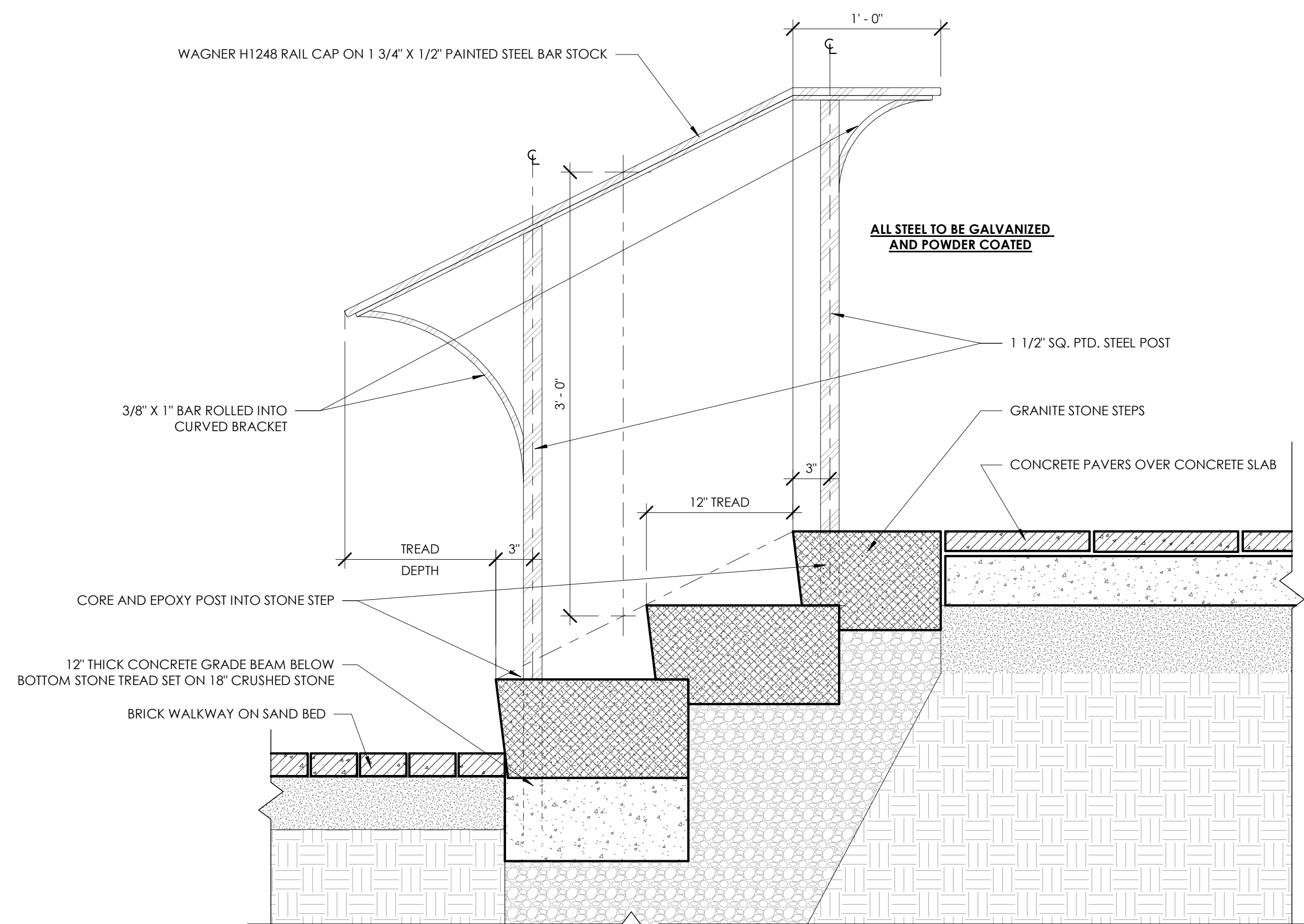
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**KUA
KILTON/WELCH
DORMITORIES**

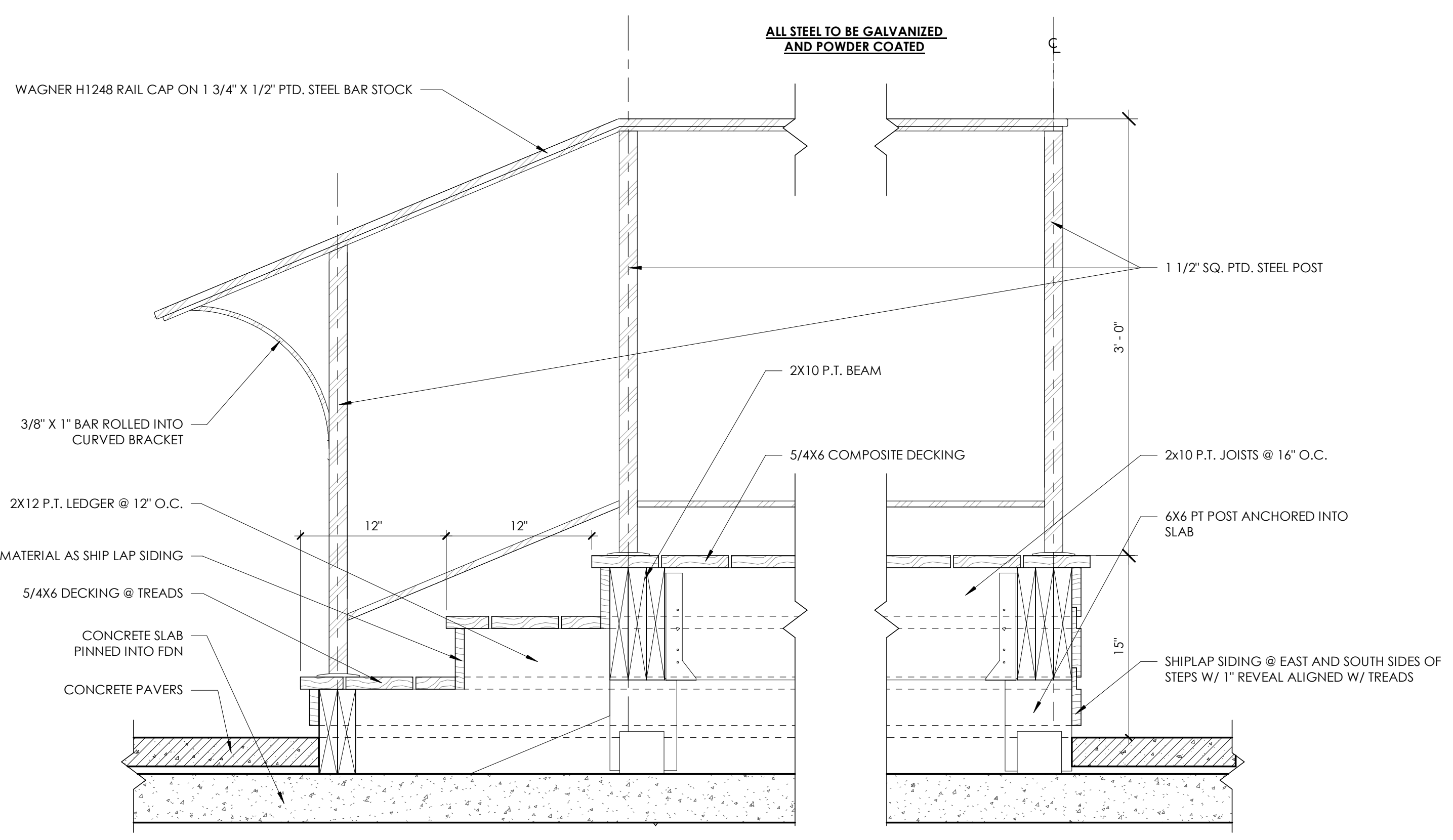
Main Street,
Meriden, NH 03770

**KILTON
DETAILS**

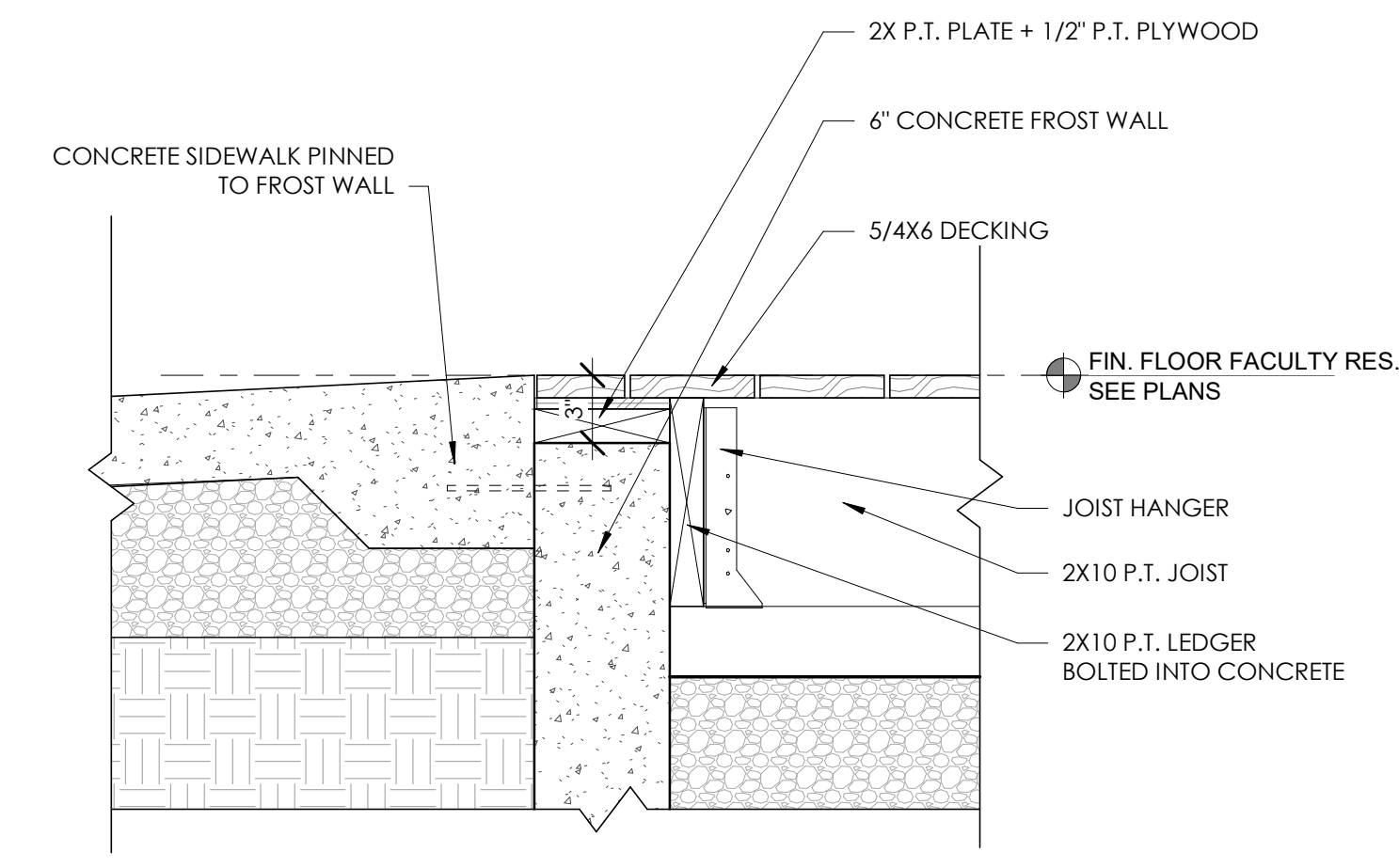
AK-6.5



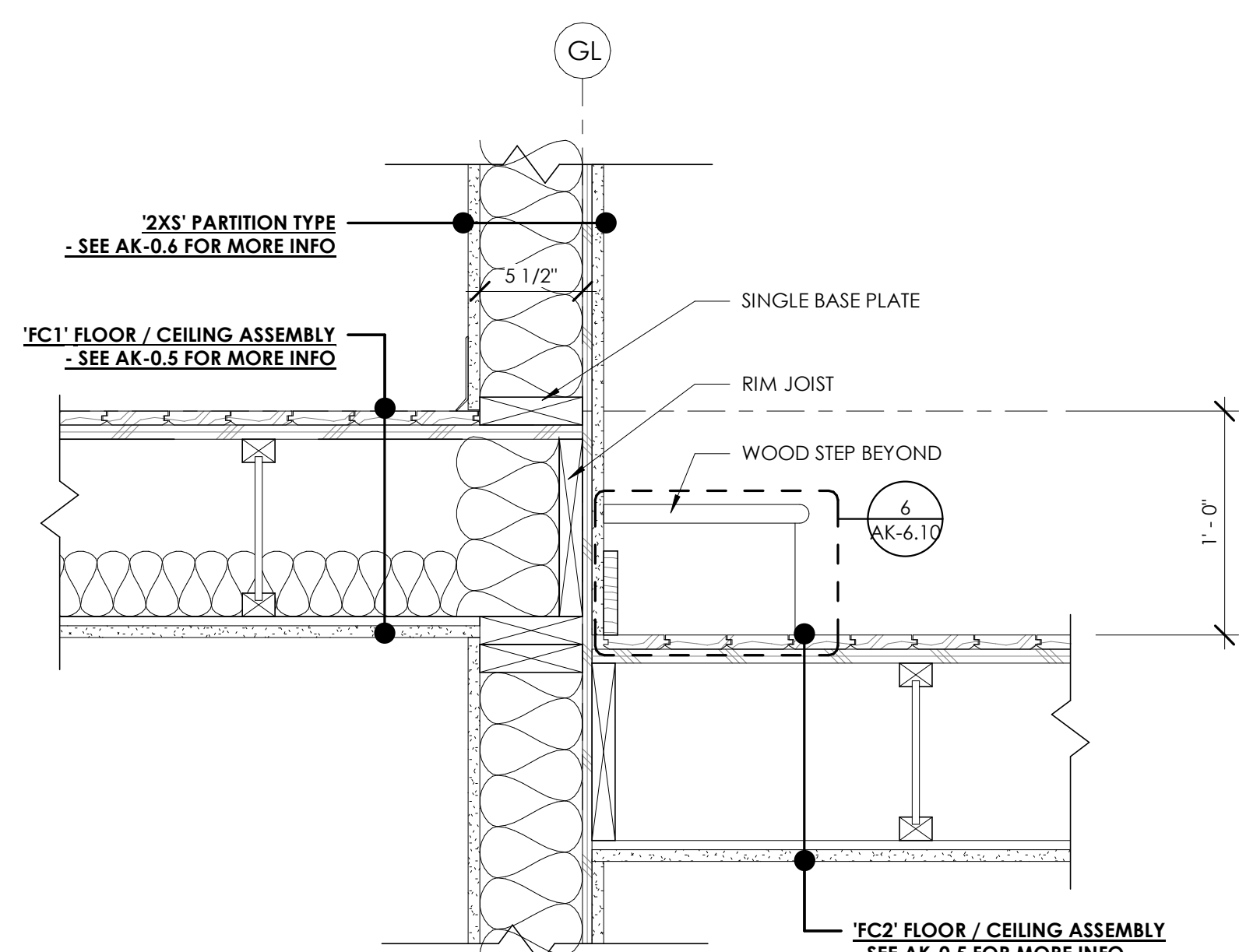
6 Exterior Stair Detail
1 1/2" = 1'-0"



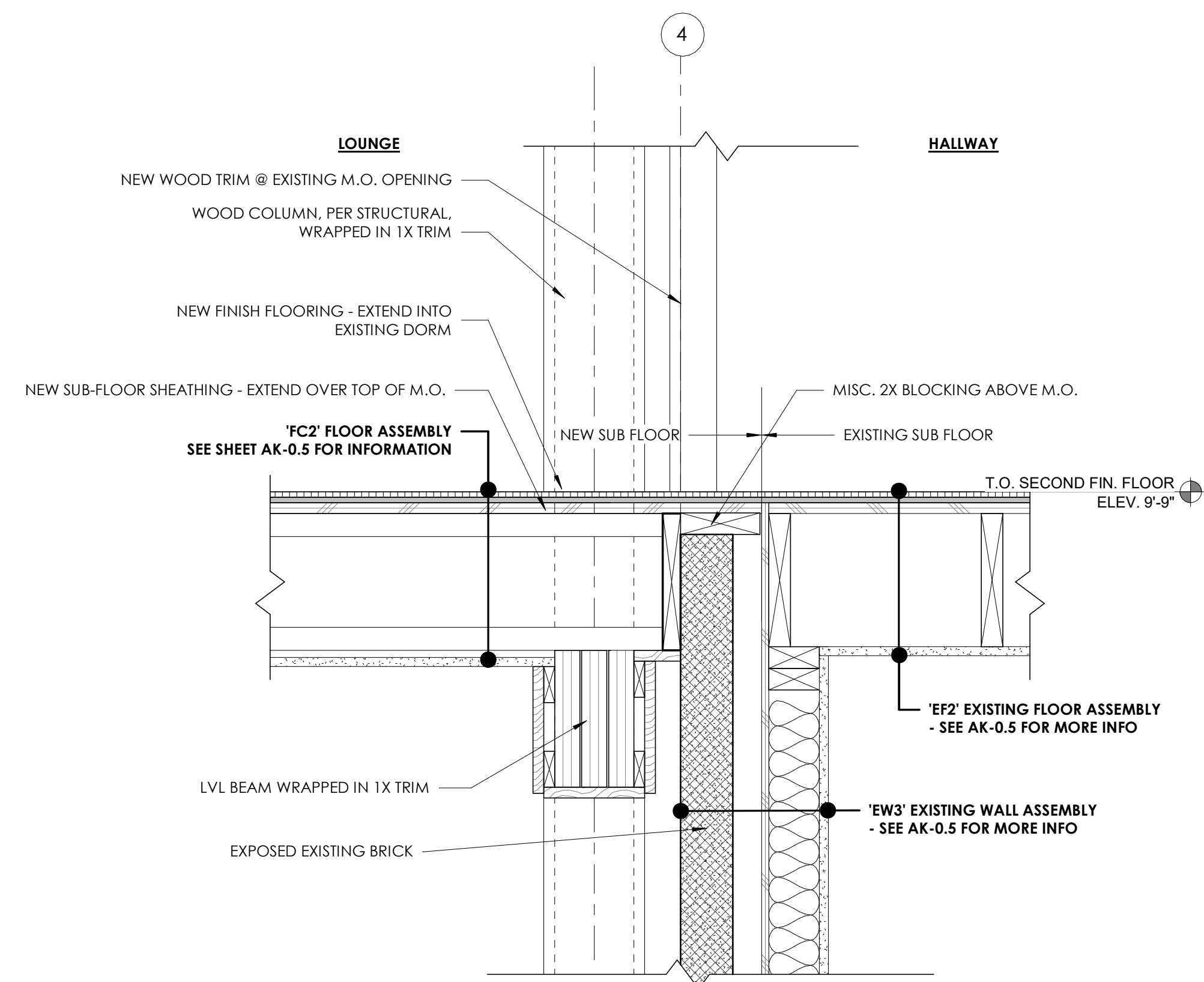
4 EXTERIOR STEP DETAIL @ STAIR 'B'
1 1/2" = 1'-0"



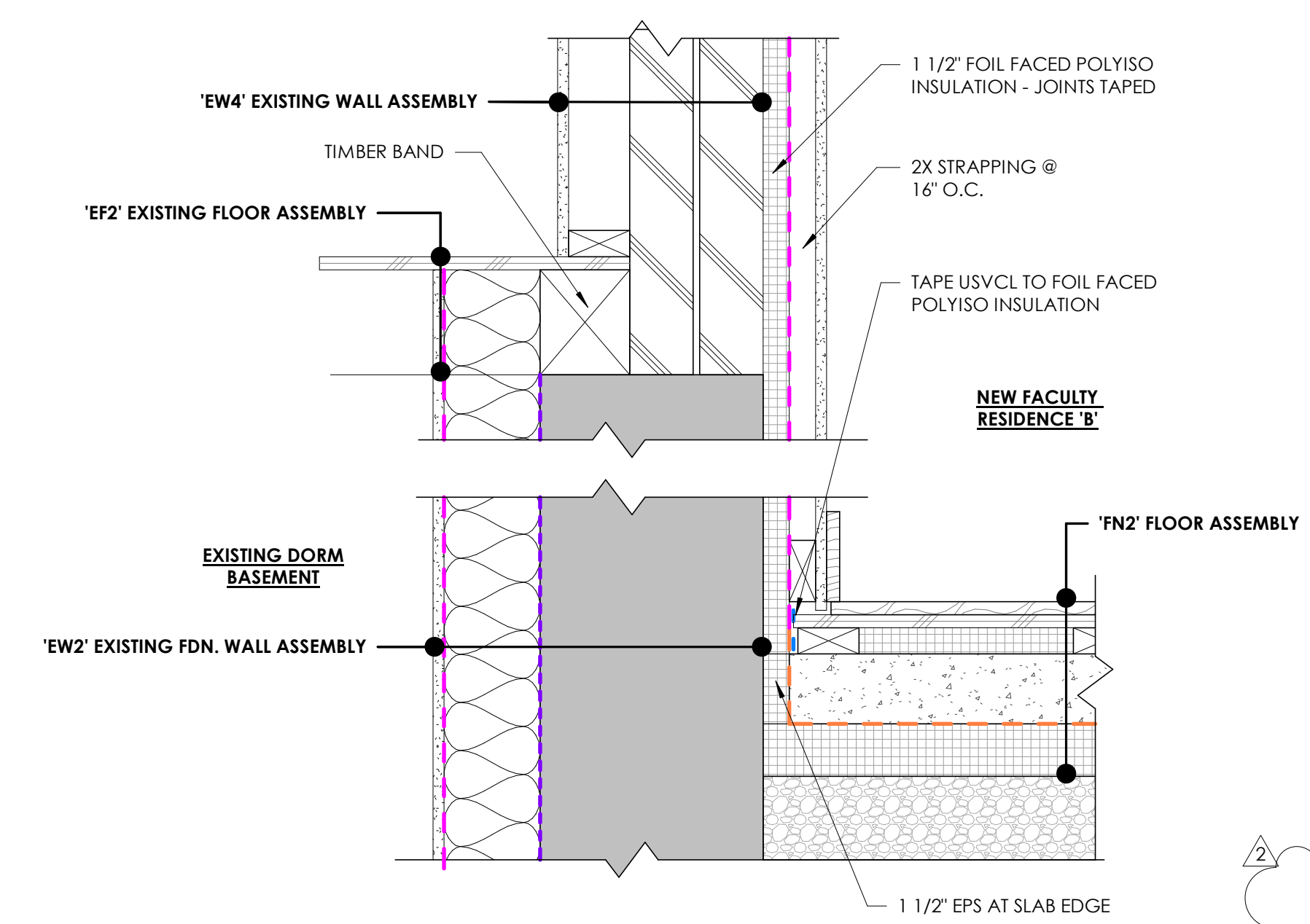
5 Deck Edge Detail @ Faculty Residences
1 1/2" = 1'-0"



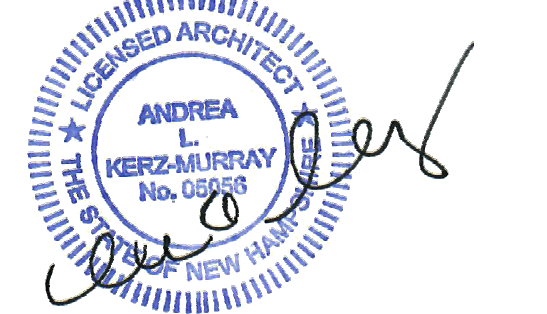
3 'A'
Typical Second Floor Jct. @ Dorm / F.R.
1 1/2" = 1'-0"



4 Detail @ Second floor Between new Dorm and Existing Dorm
1 1/2" = 1'-0"



1 Detail at FR 'B' & Existing Dorm Slab
1 1/2" = 1'-0"



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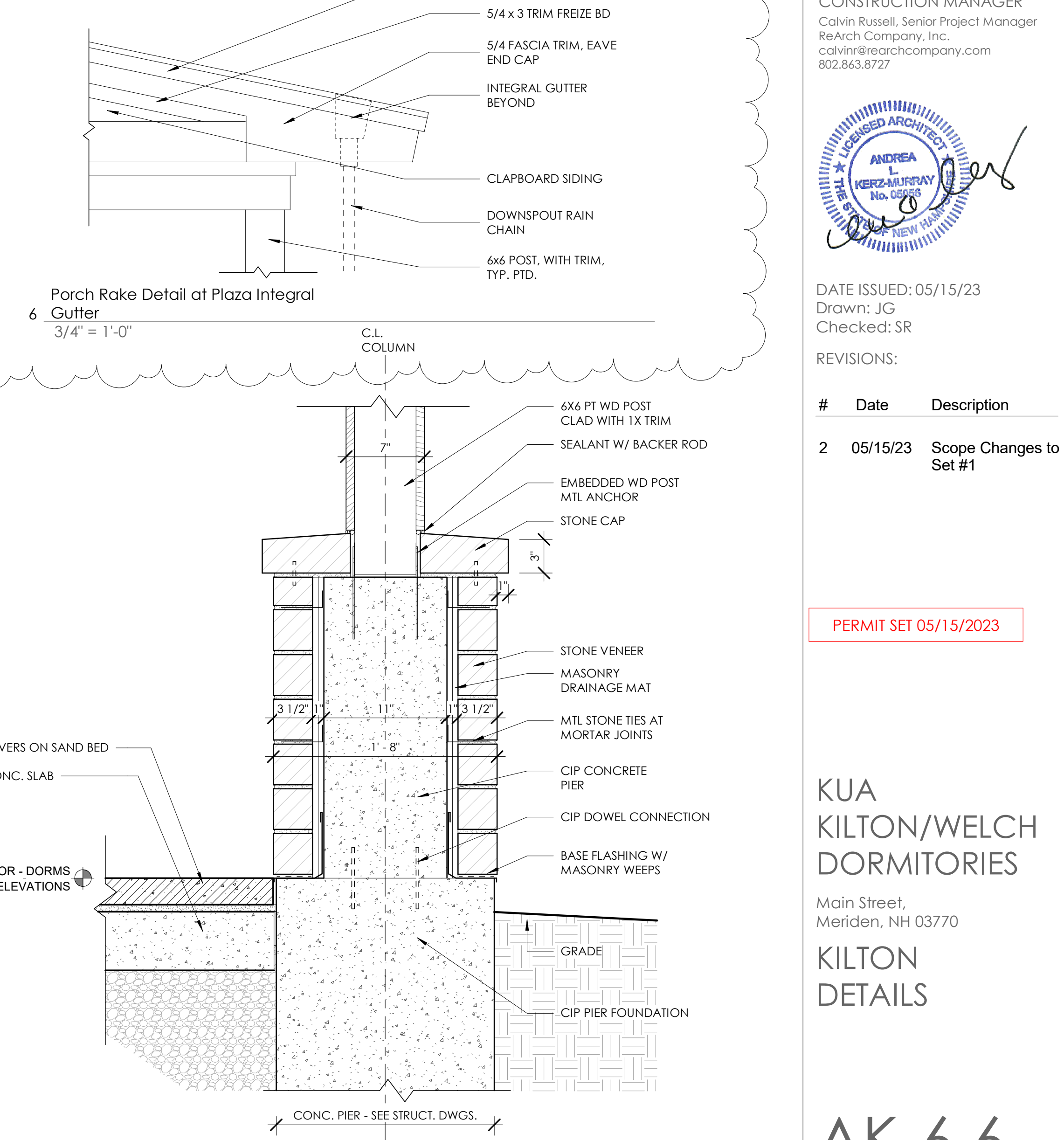
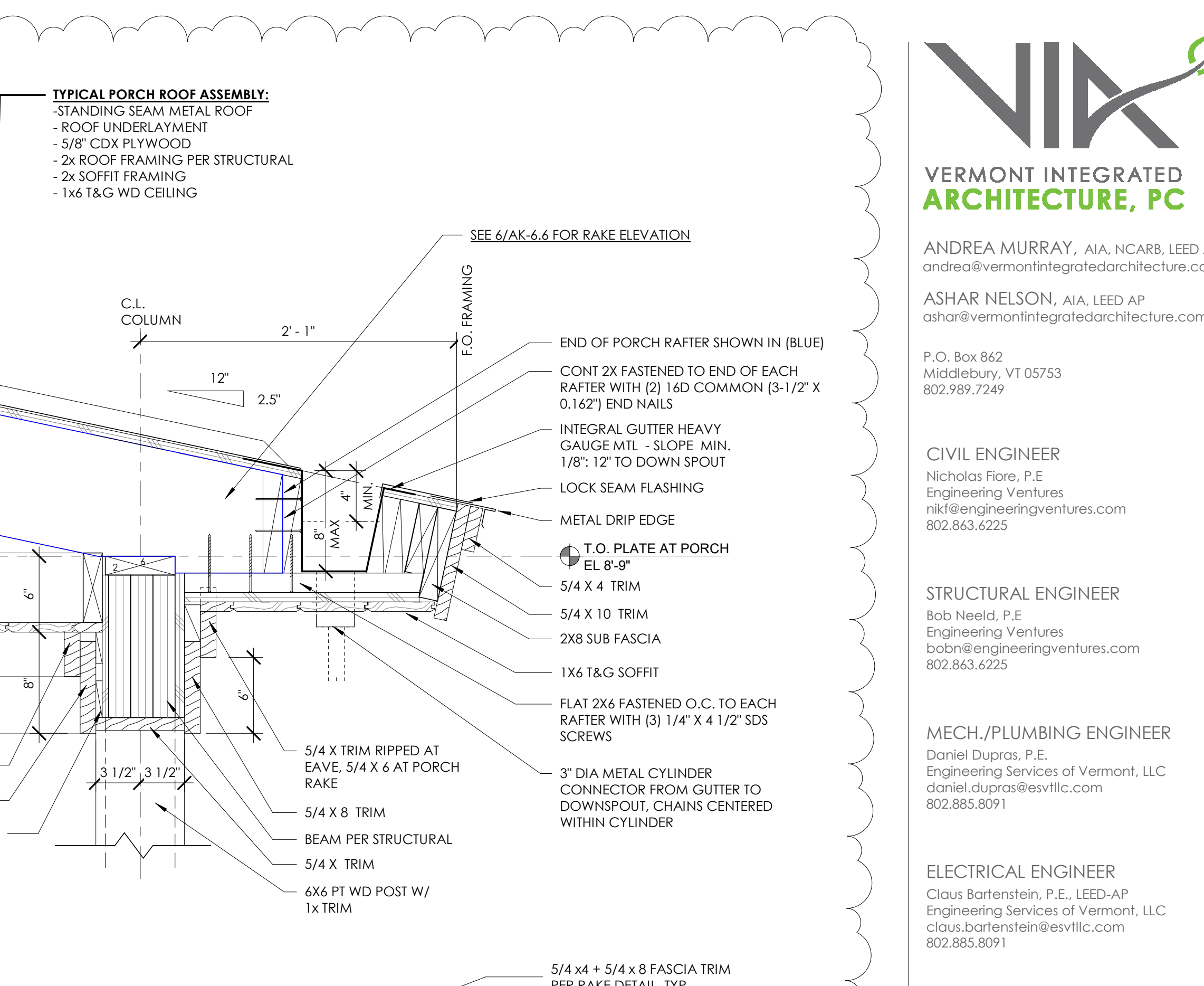
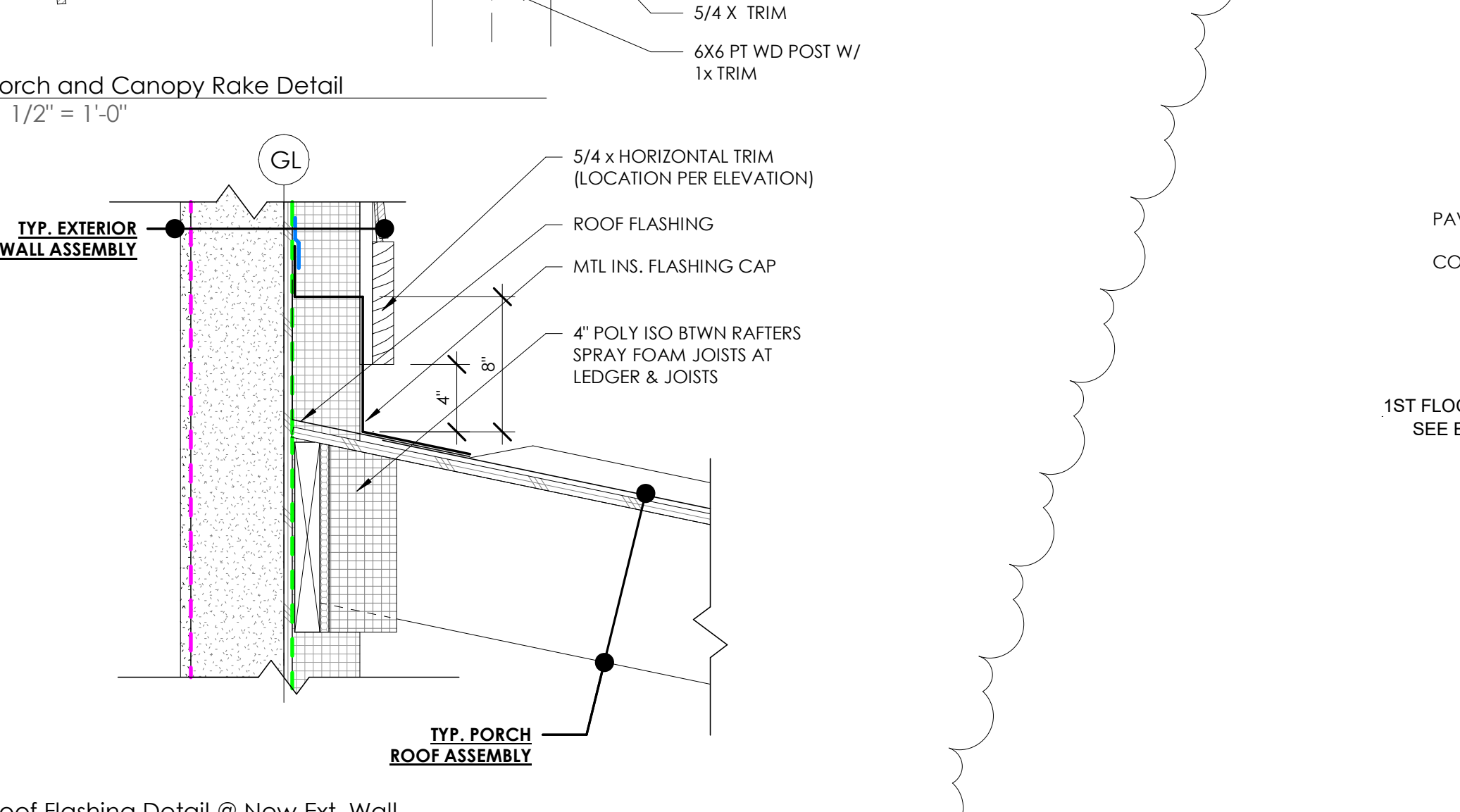
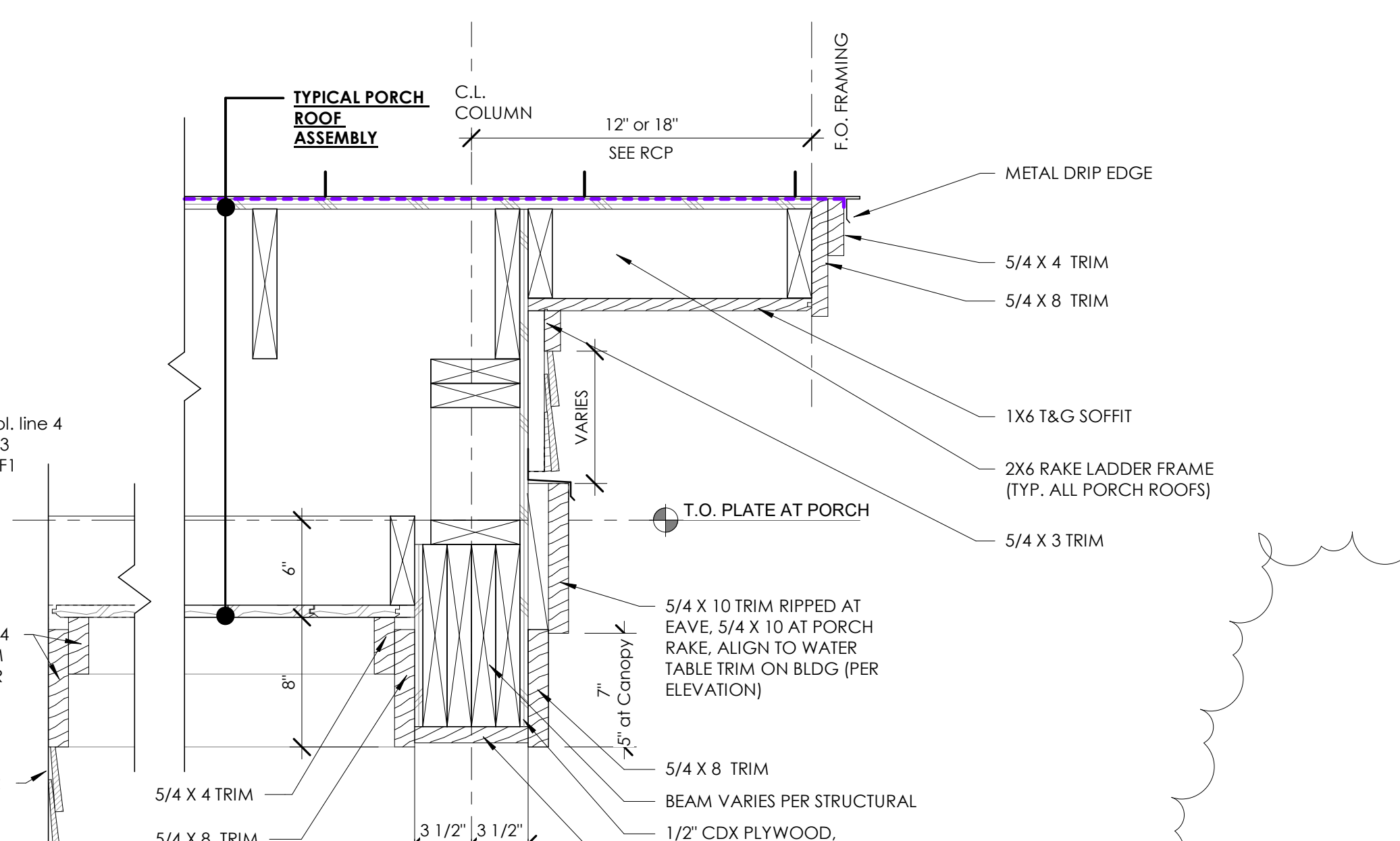
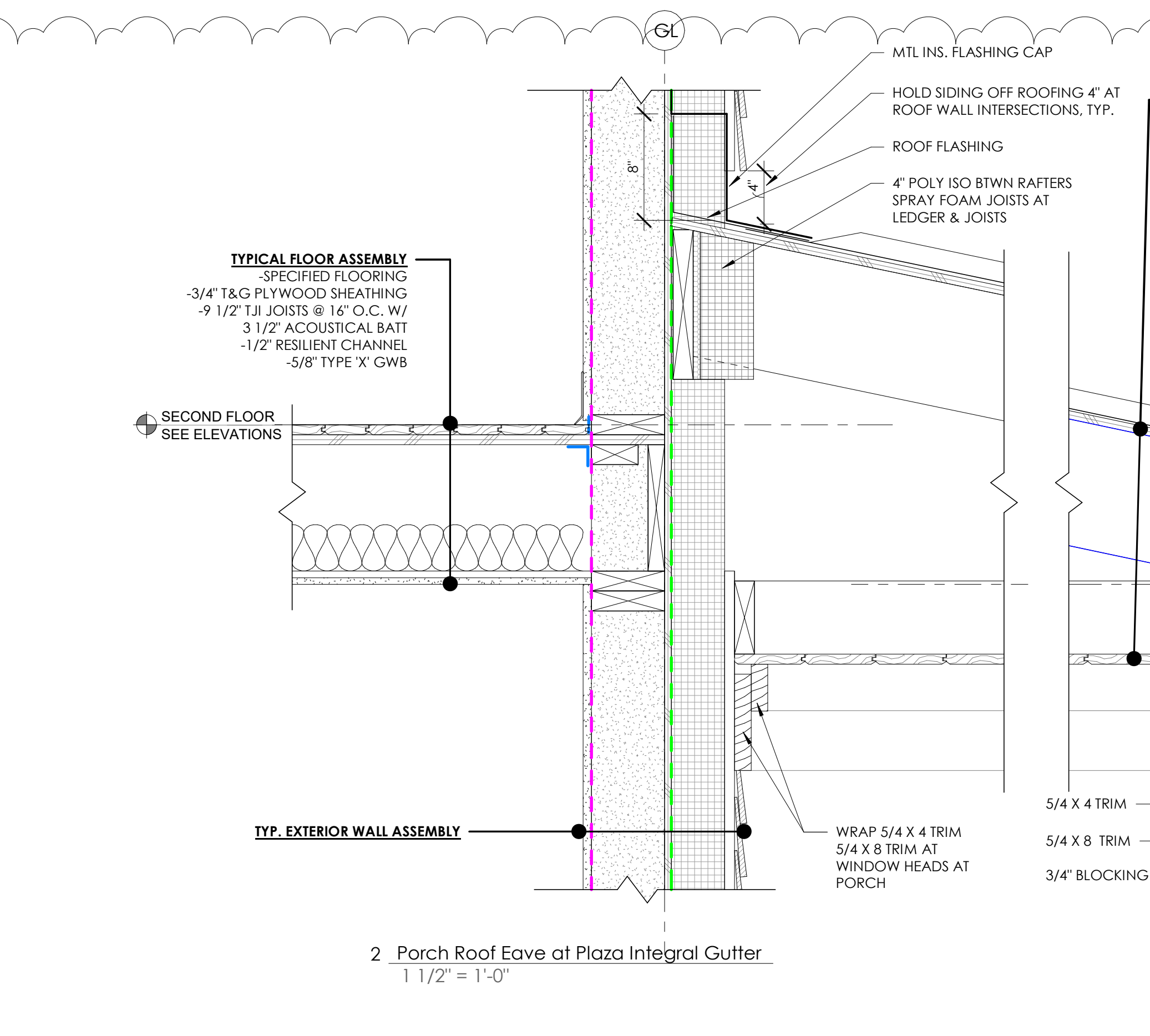
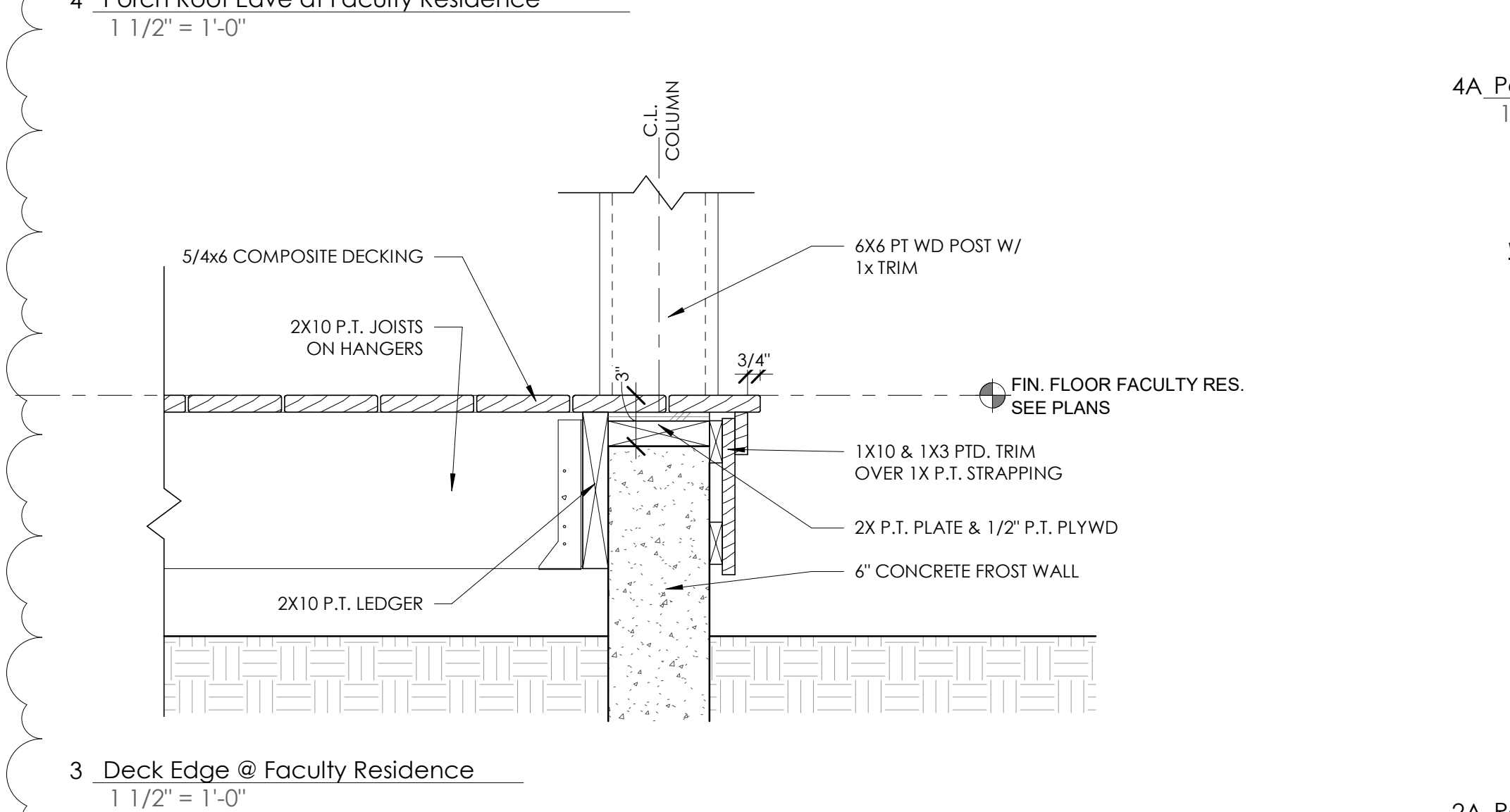
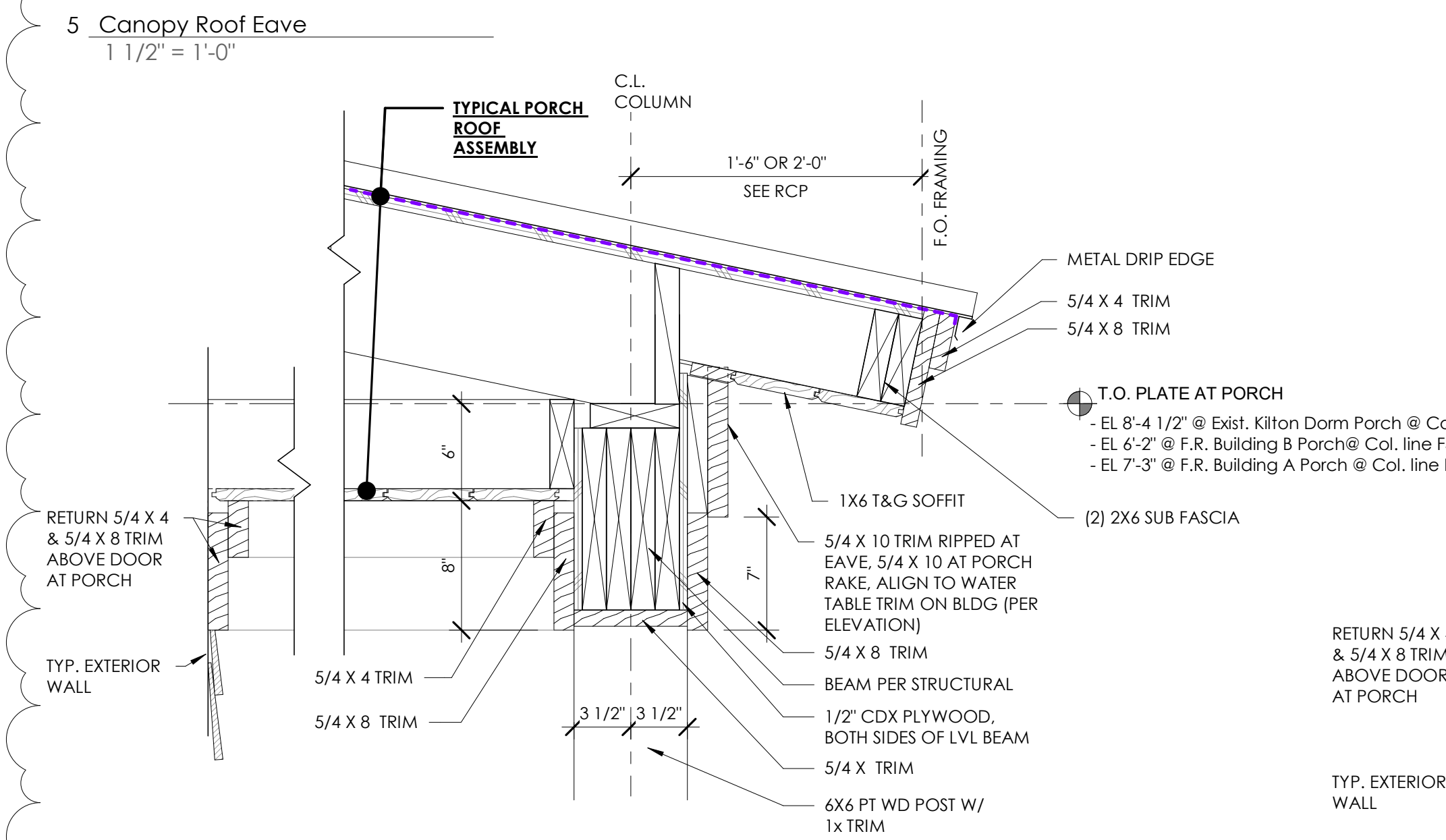
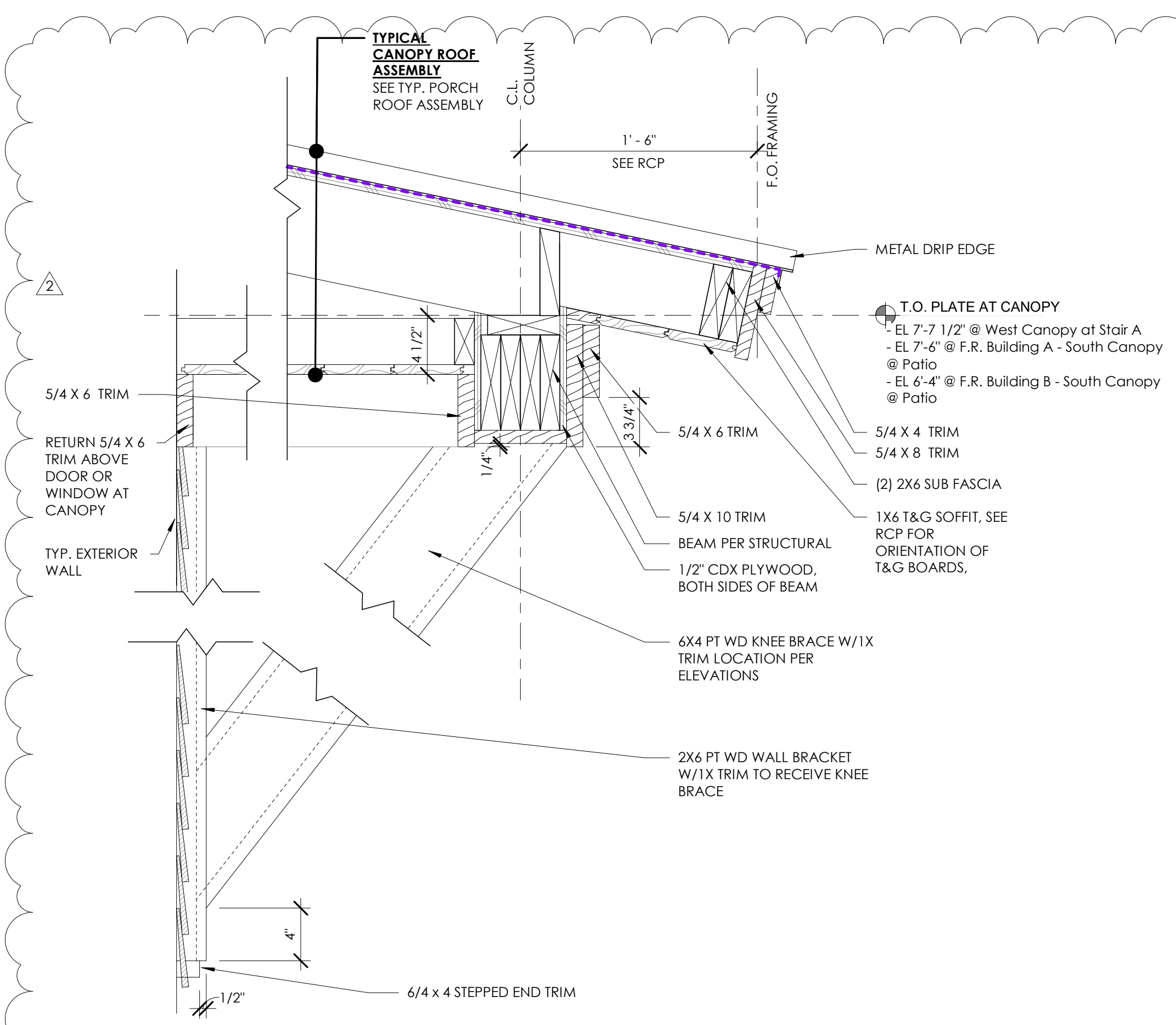
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DORMITORIES

Main Street,
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KILTON
DETAILS

AK-6.6





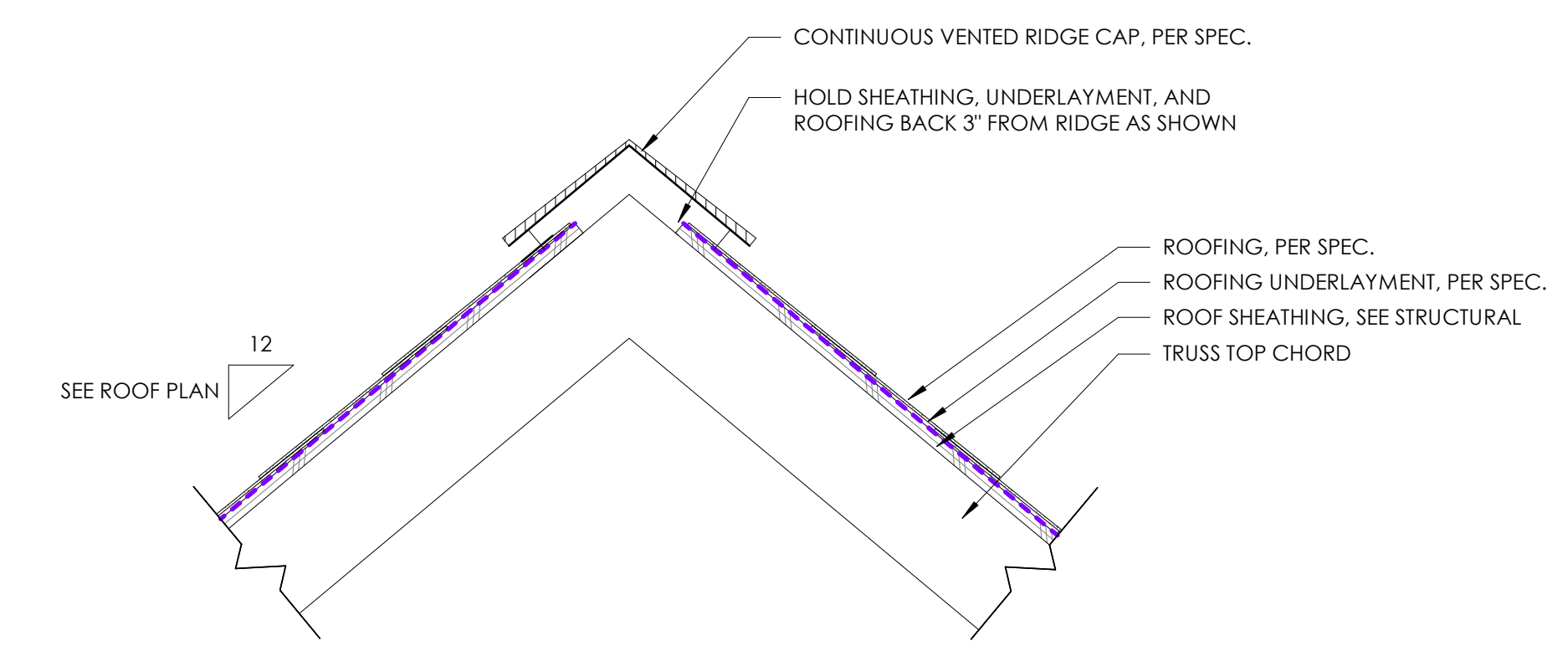
#	Date	Description
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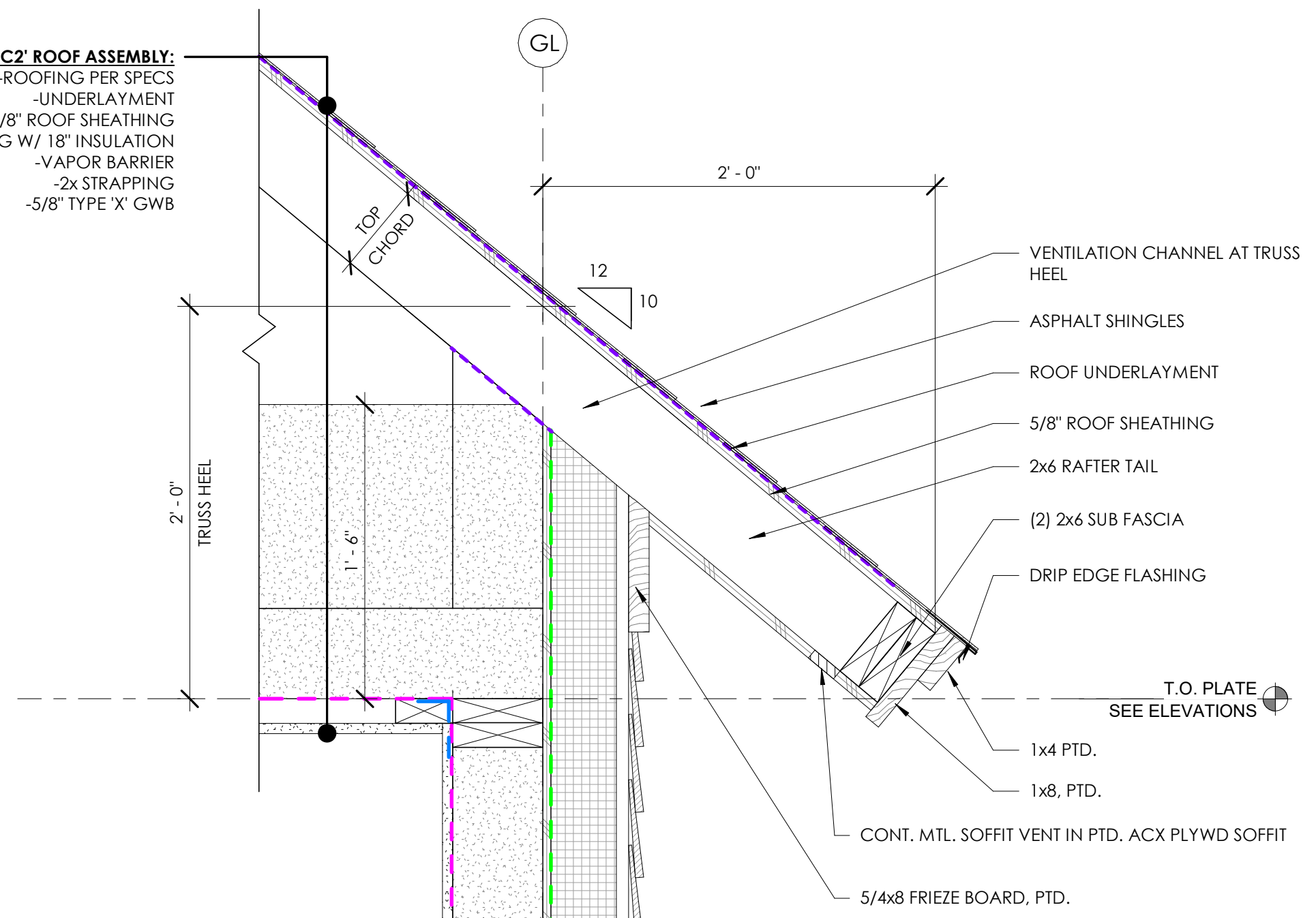
**KUA
KILTON/WELCH
DORMITORIES**

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Meriden, NH 03770

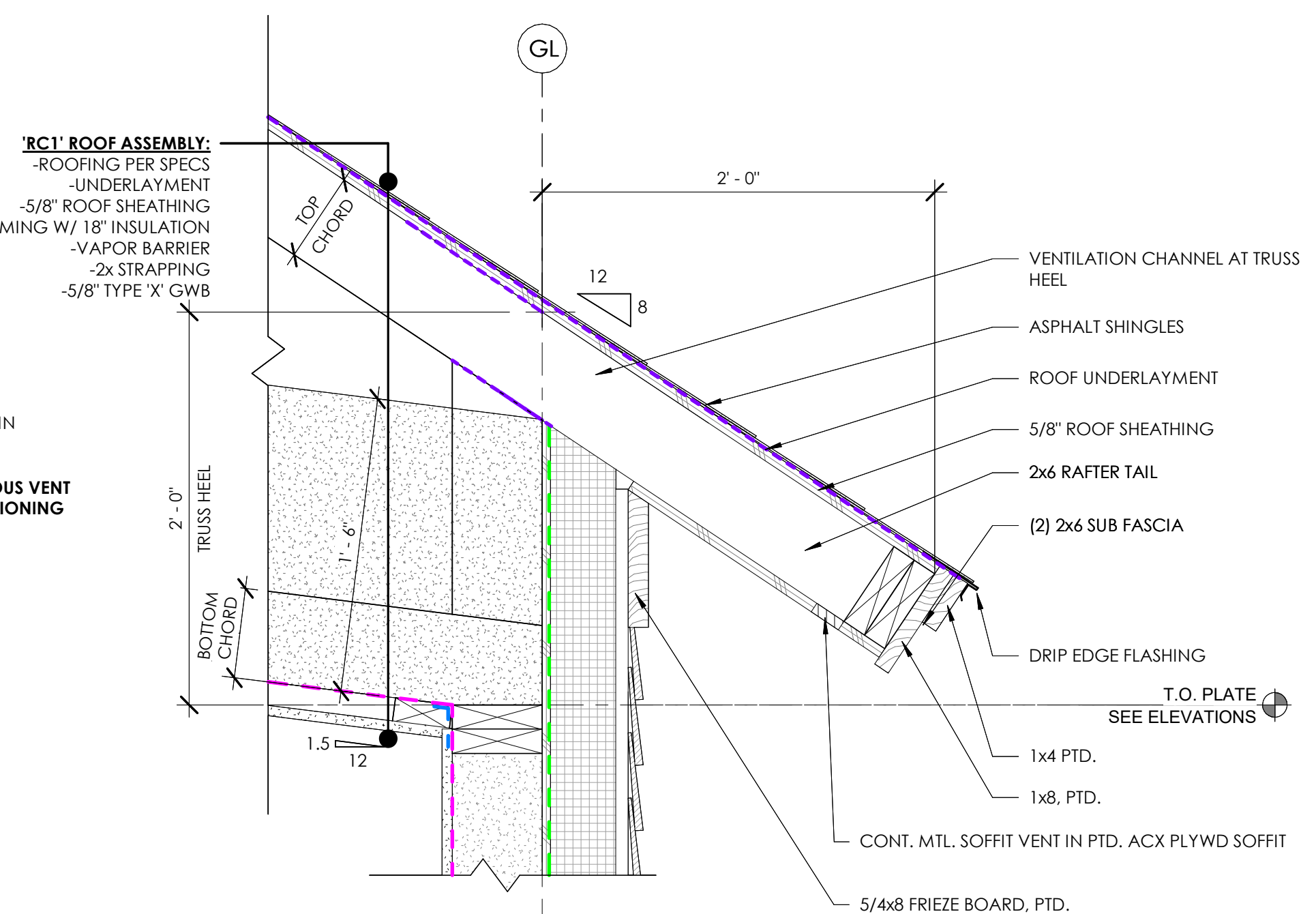
**KILTON
ROOF DETAILS**



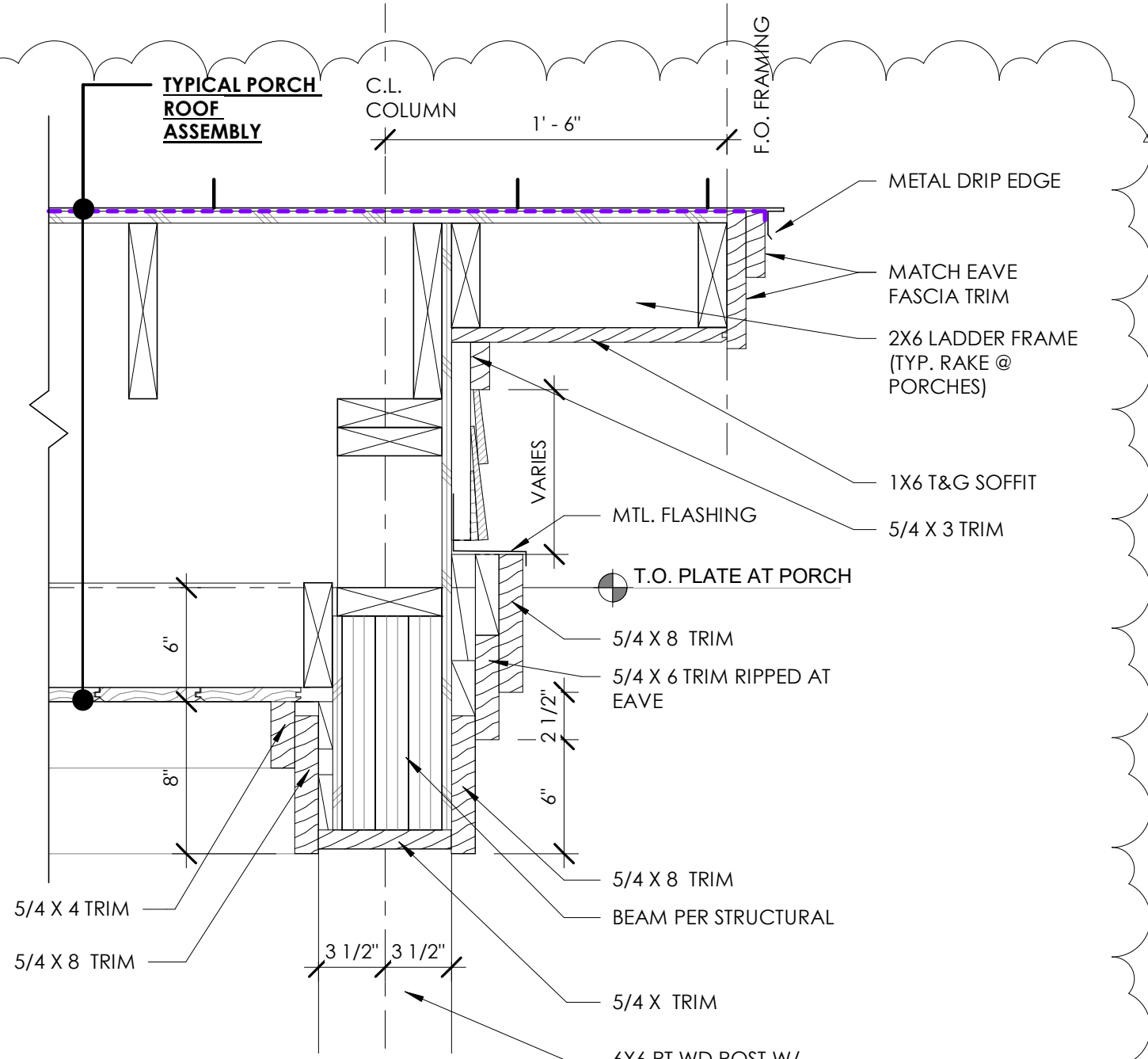
3 Typical Ridge Detail at New Construction
1 1/2" = 1'-0"



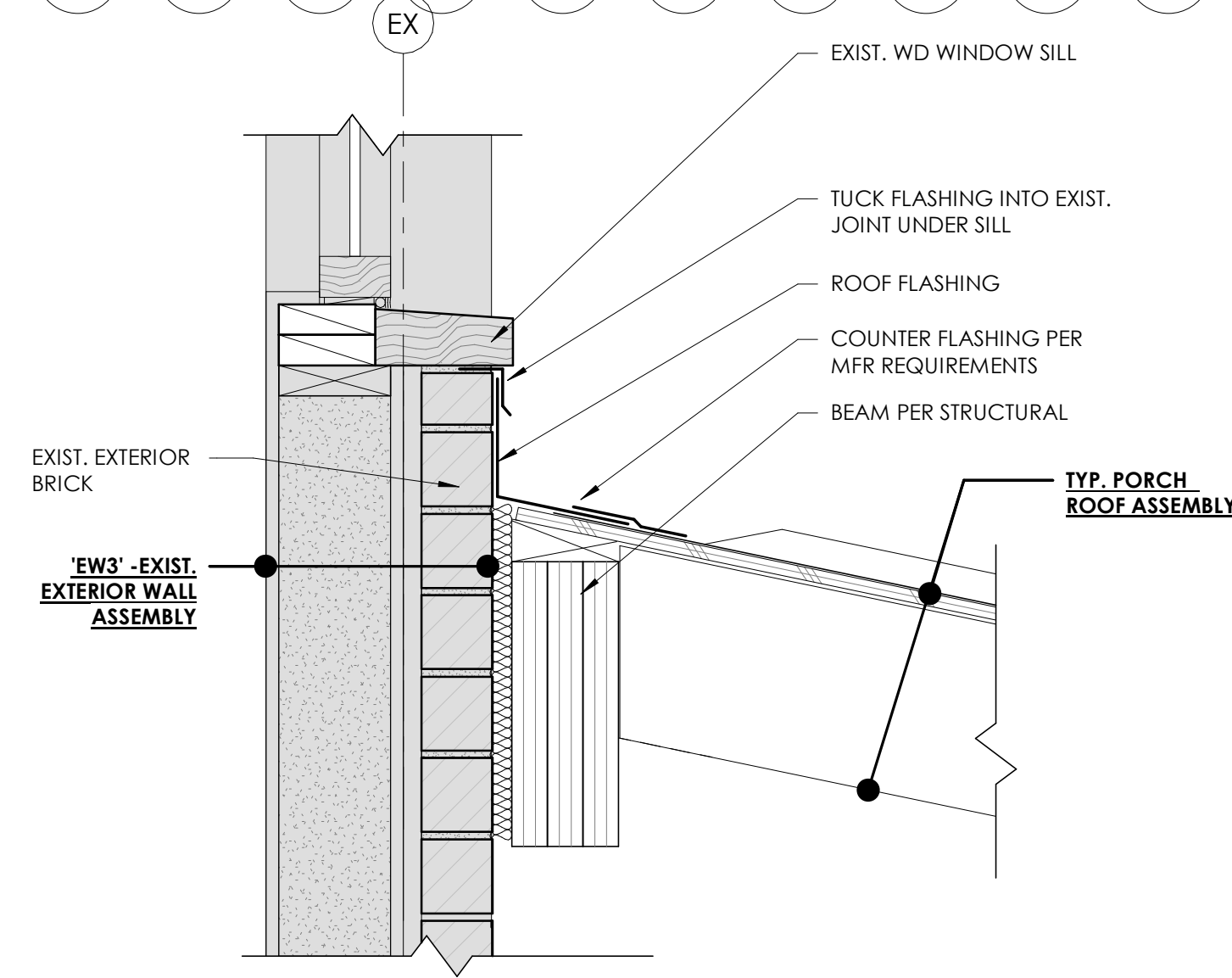
2 New Roof Eave Detail - Faculty Residence
1 1/2" = 1'-0"



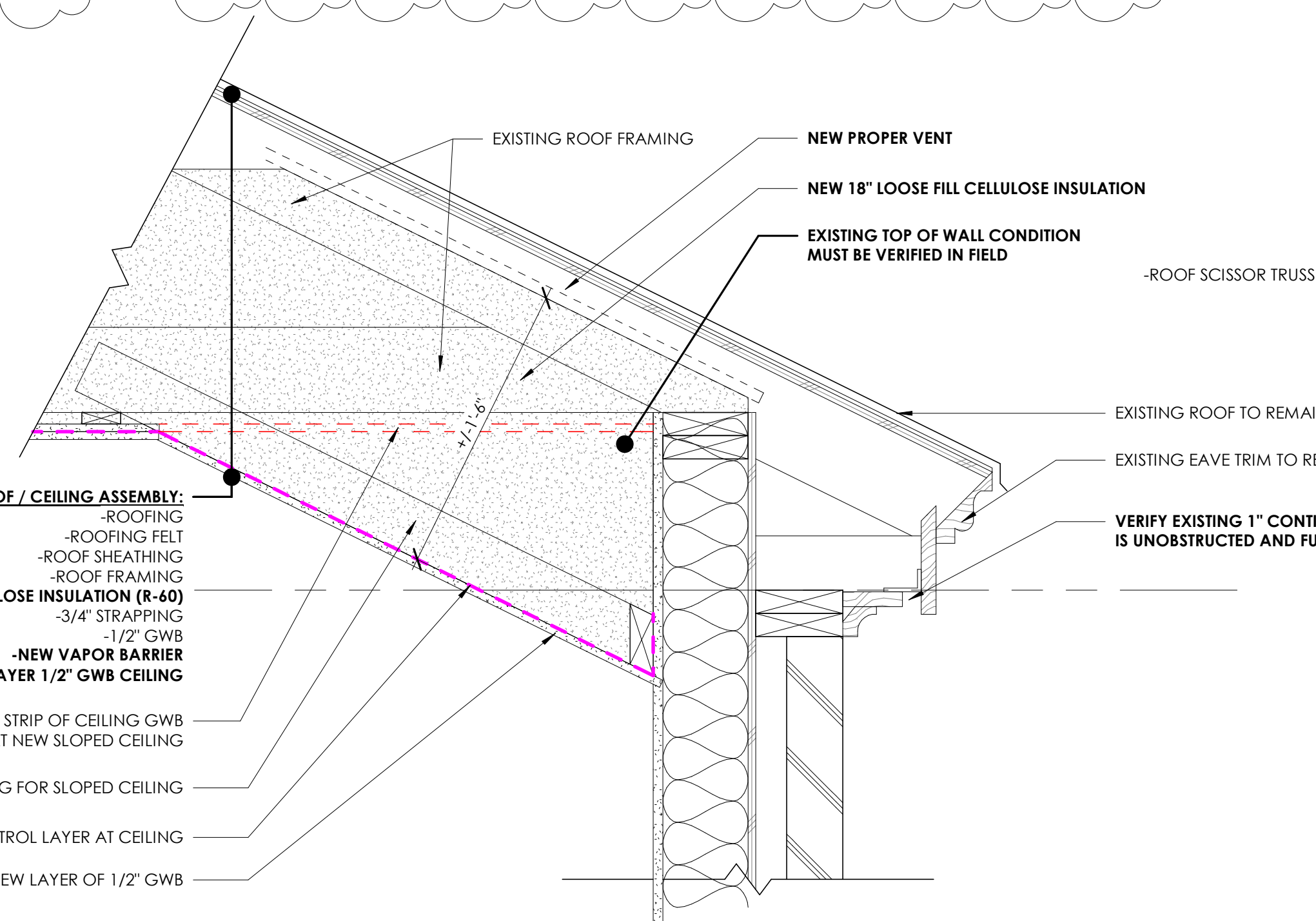
1 New Roof Eave Detail - Dorm
1 1/2" = 1'-0"



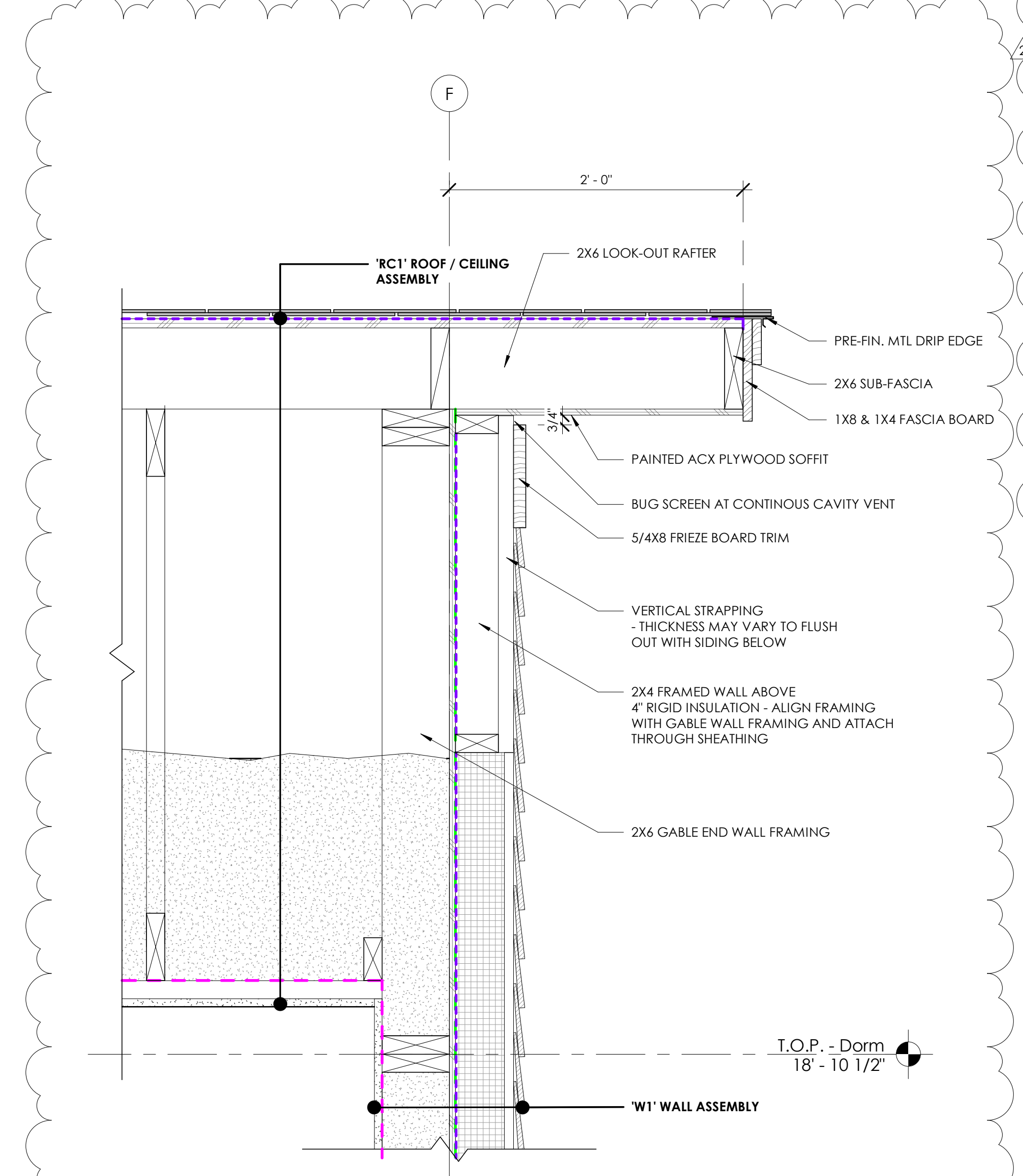
7 Porch Rake at Plaza Integral Gutter
1 1/2" = 1'-0"



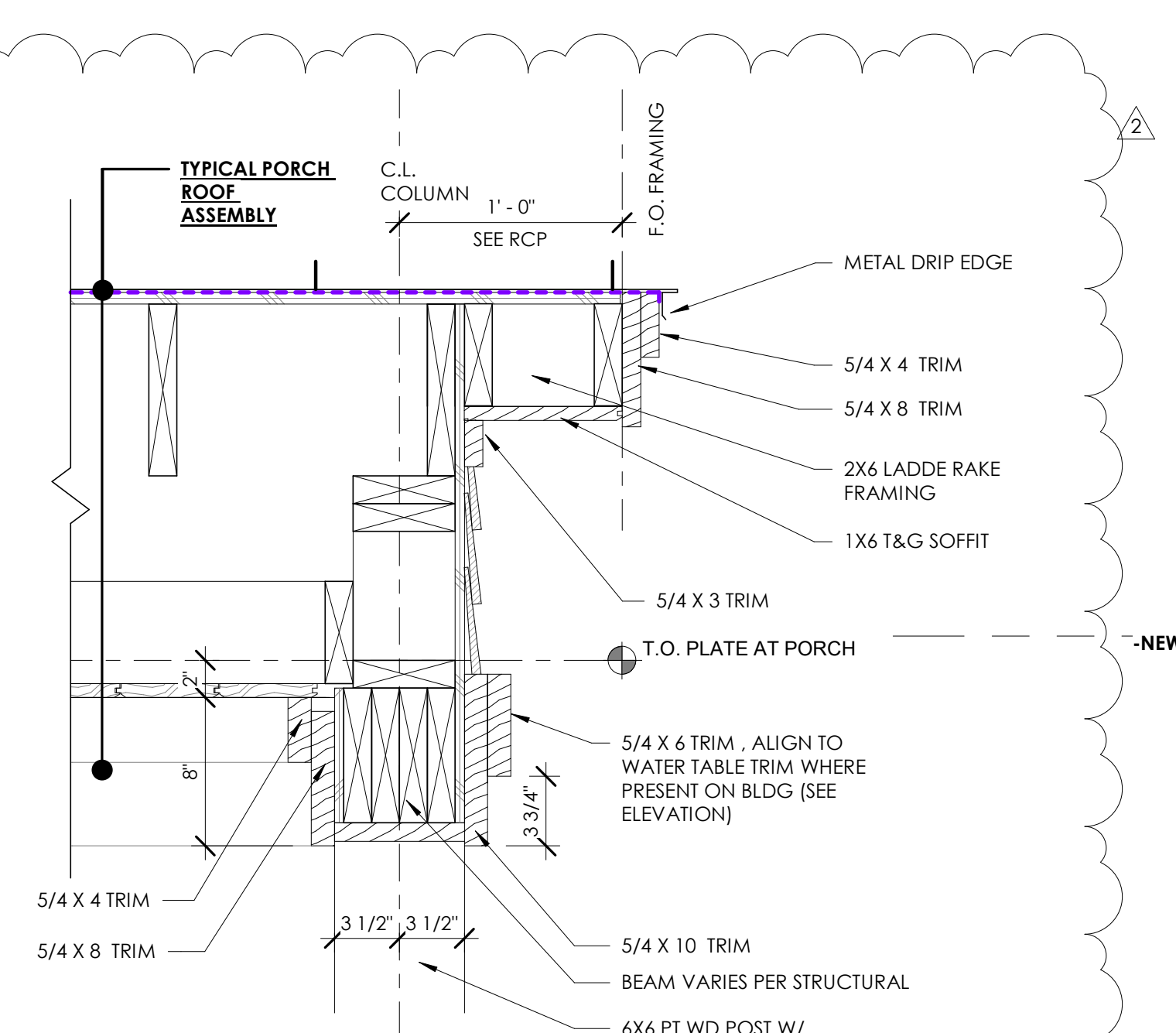
5 Roof Flashing Detail @ Existing Kilton Dorm
1 1/2" = 1'-0"



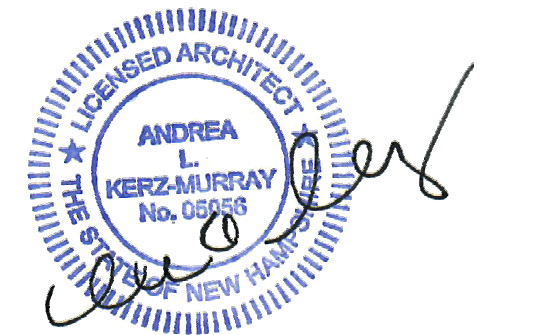
4 Existing Dorm Proposed Eave Upgrade
1 1/2" = 1'-0"



6 Typ. Rake Detail
1 1/2" = 1'-0"



8 Canopy Rake Detail
1 1/2" = 1'-0"



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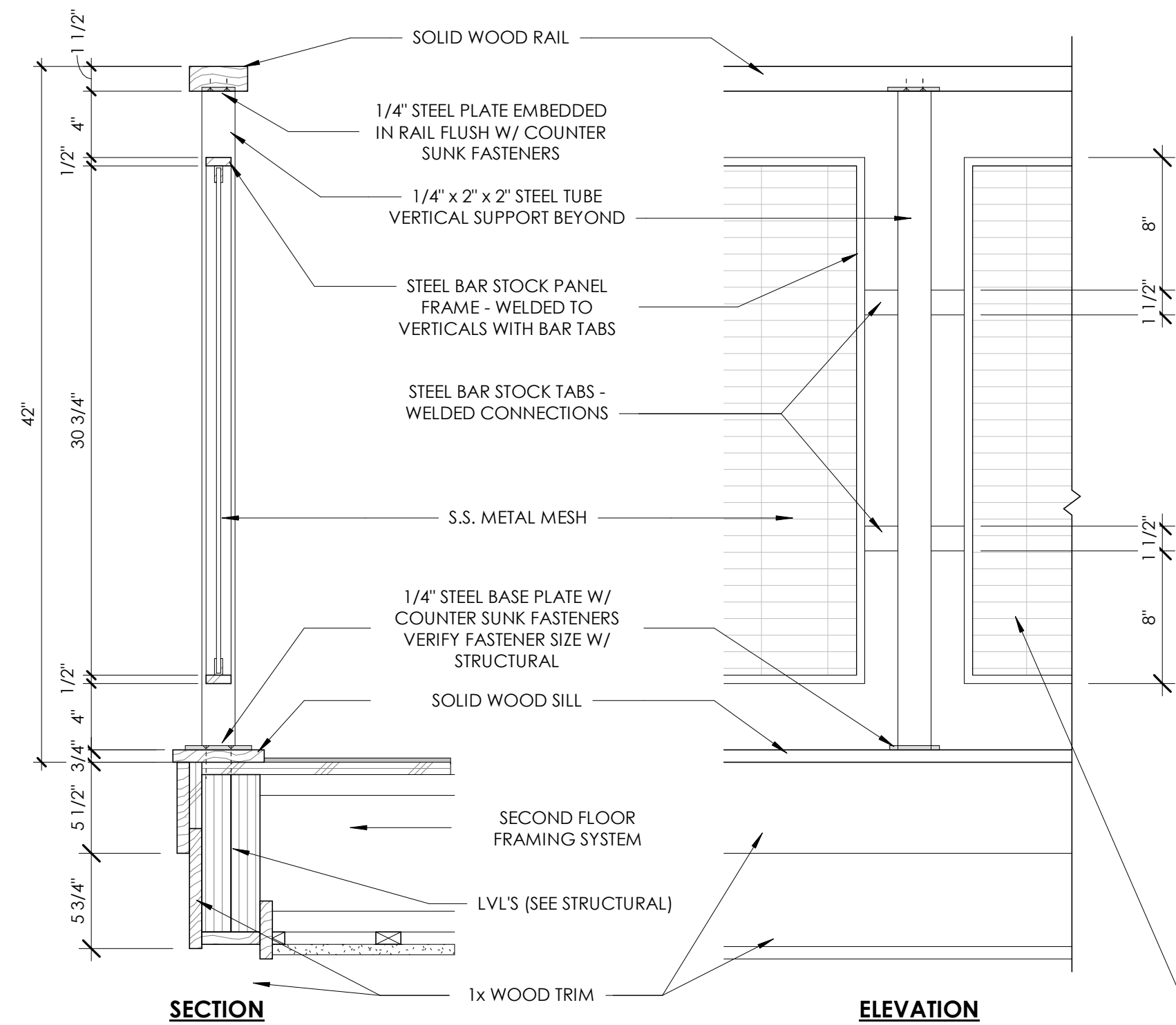
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
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KILTON
INTERIOR DETAILS

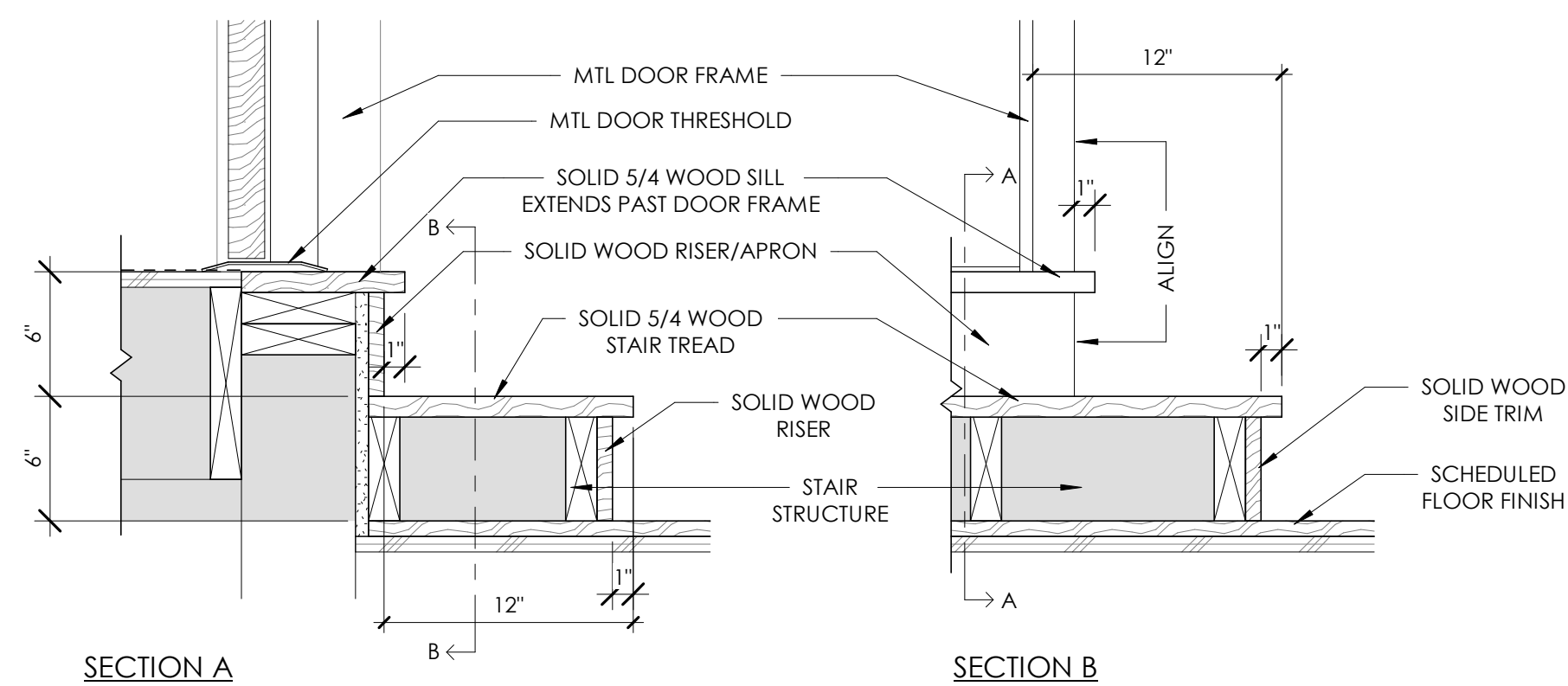
AK-6.10



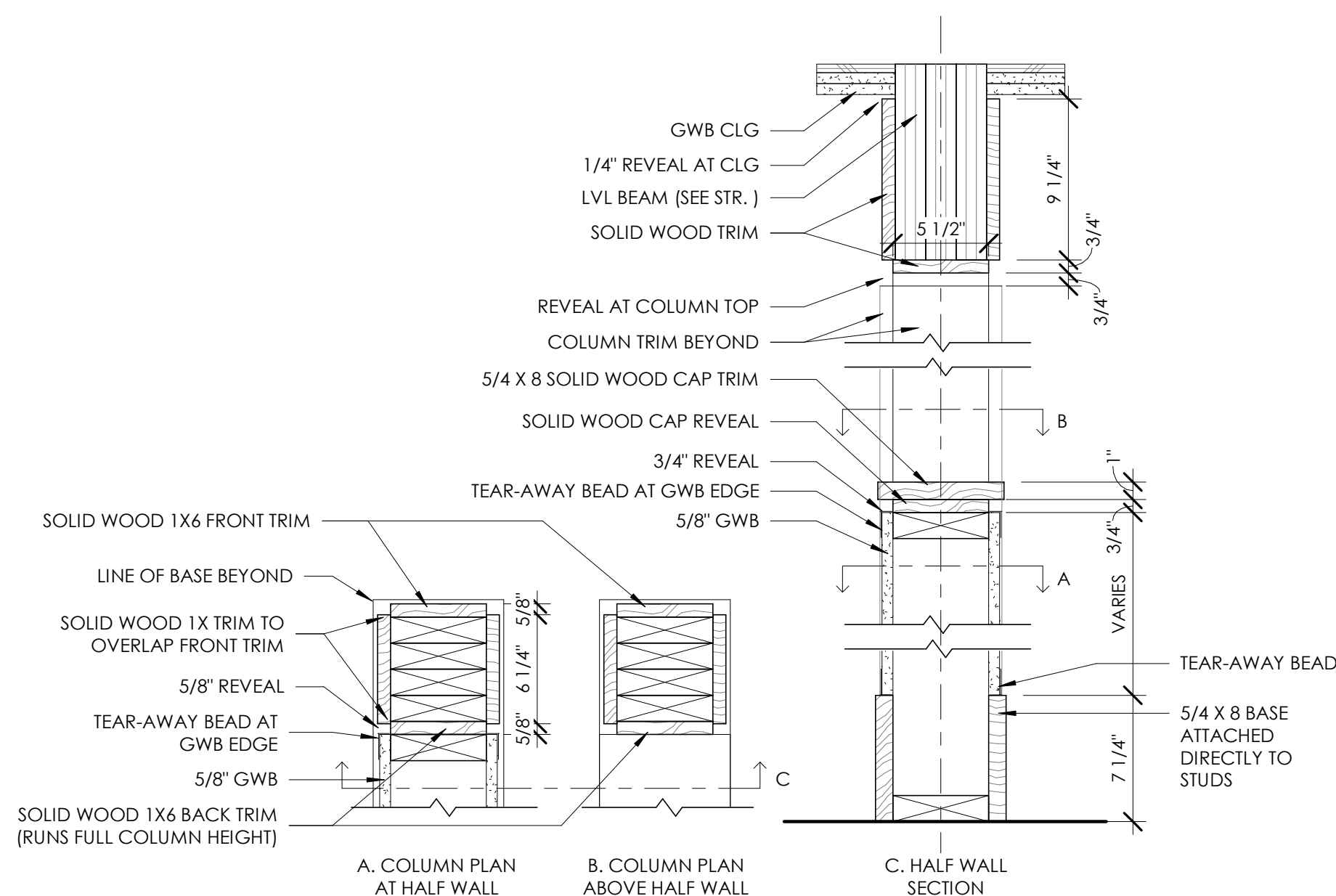
7 Lounge 215 Railing Details
1 1/2" = 1'-0"

Structural Performance: Provide railings capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

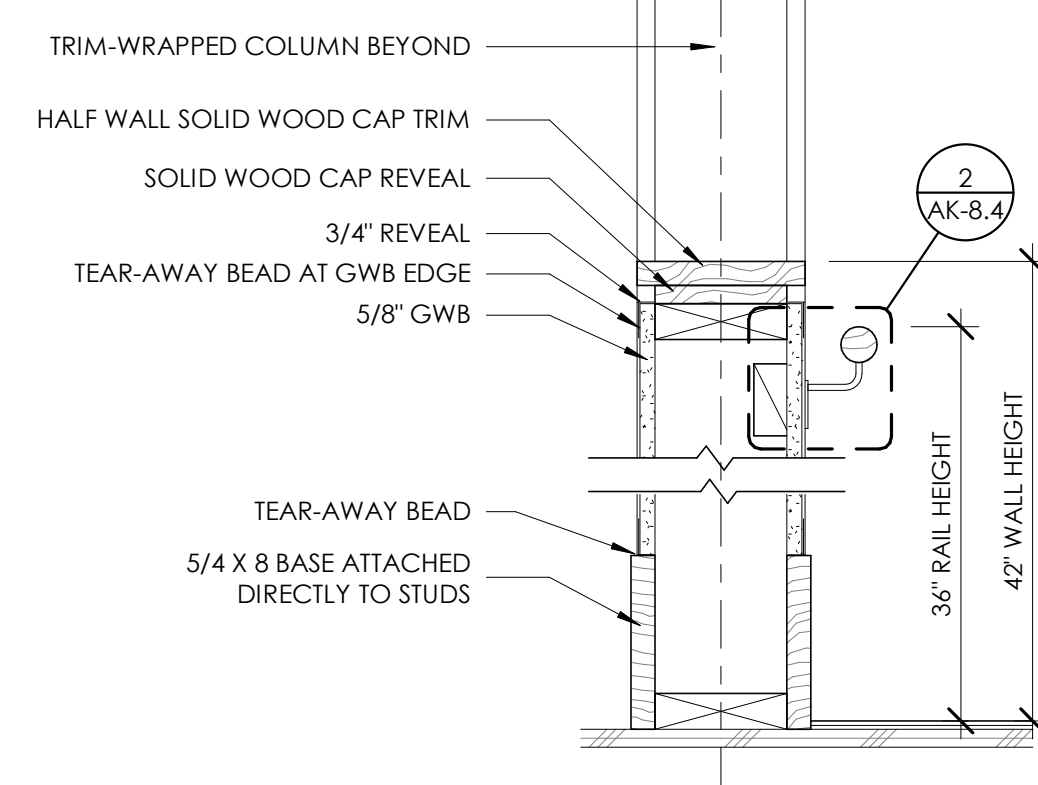
- Uniform load of 50 lbf/ft. applied in any direction.
 - Concentrated load of 200 lbf. applied in any direction.
 - Uniform and concentrated loads need not be assumed to act concurrently.
- Top Rails of Guards:
 - Uniform load of 50 lbf/ft. applied in any direction.
 - Concentrated load of 200 lbf. applied in any direction.
 - Uniform and concentrated loads need not be assumed to act concurrently.
 - Infill Area of Guards:
 - Horizontal concentrated load of 50 lbf. applied to 1 sq. ft. at any point in system, including panels, intermediate rails, balusters, or other elements composing infill area. Load on infill area need not be assumed to act concurrently with loads on top rails.



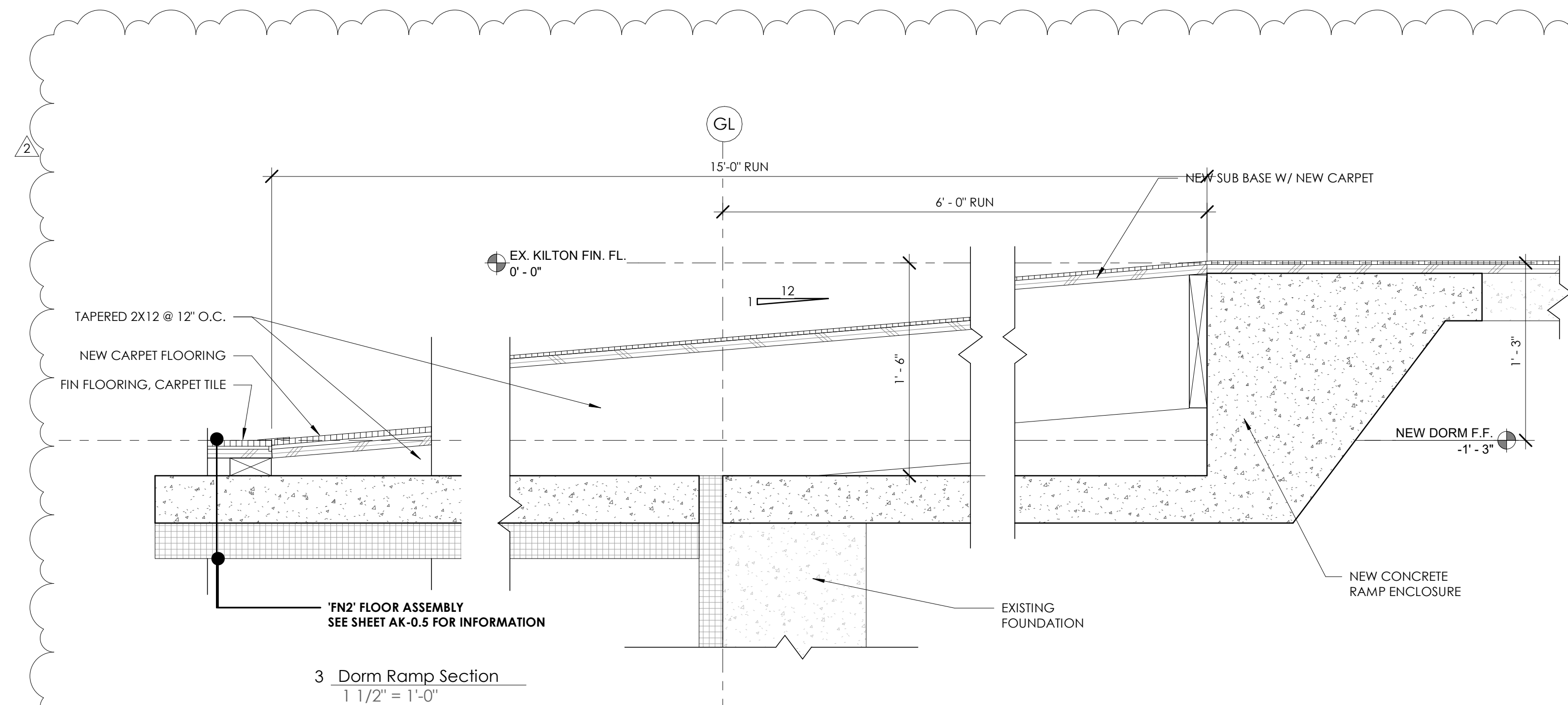
6 Faculty Res - Step Detail
1 1/2" = 1'-0"



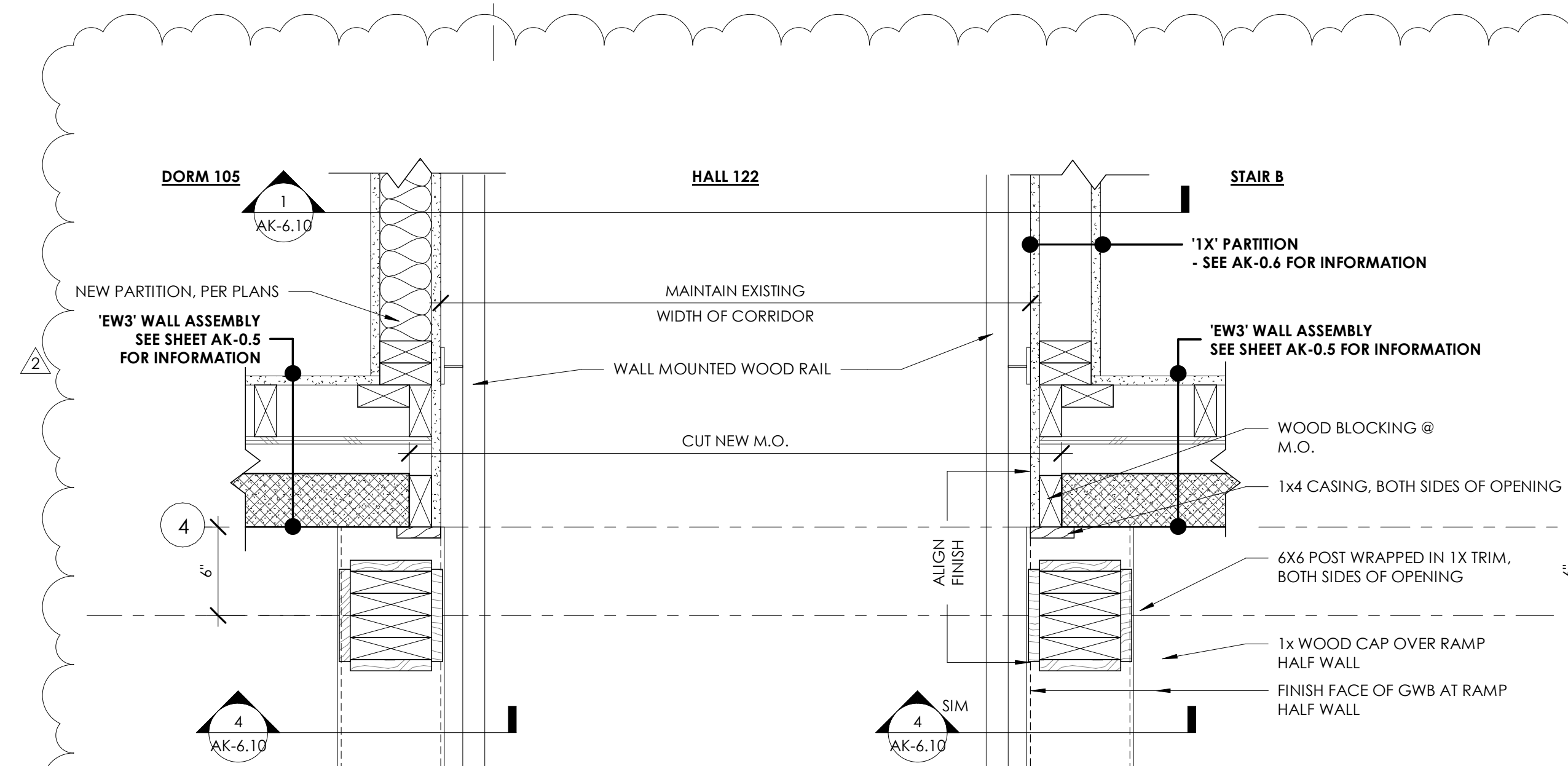
5 Half Wall / Column
1 1/2" = 1'-0"



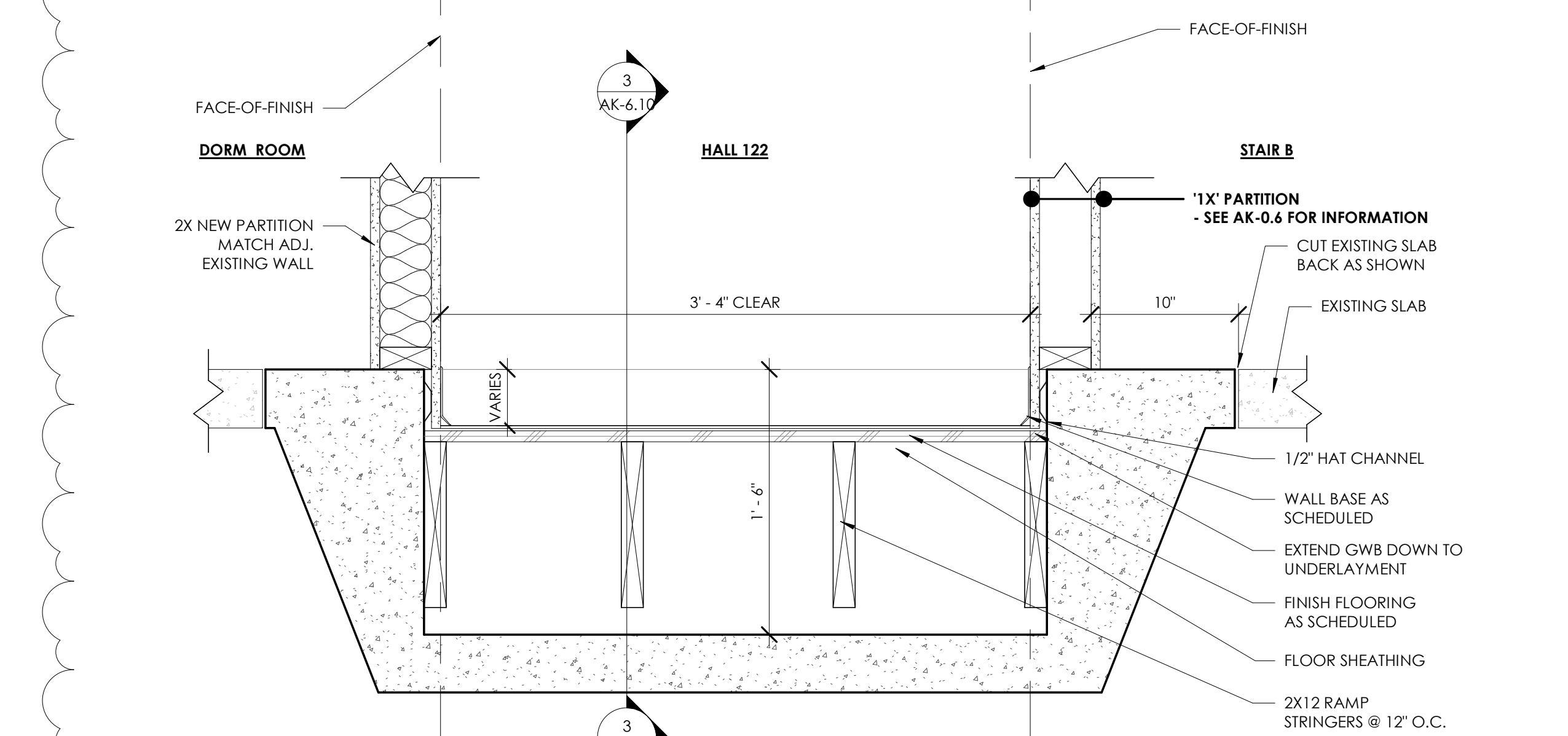
4 Ramp Half Wall & Rail Detail
1 1/2" = 1'-0"



3 Dorm Ramp Section
1 1/2" = 1'-0"



2 Dorm Ramp Jamb Detail
1 1/2" = 1'-0"



1 Dorm Ramp Cross Section Detail
1 1/2" = 1'-0"



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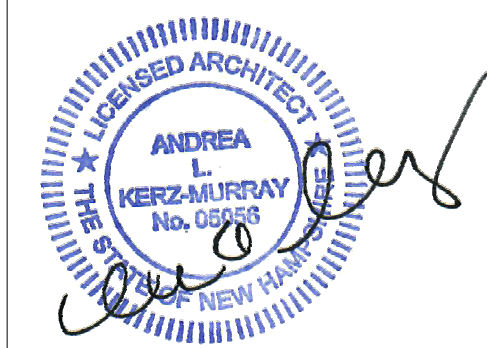
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DATE ISSUED: 05/15/23
Drawn: BA
Checked: JG

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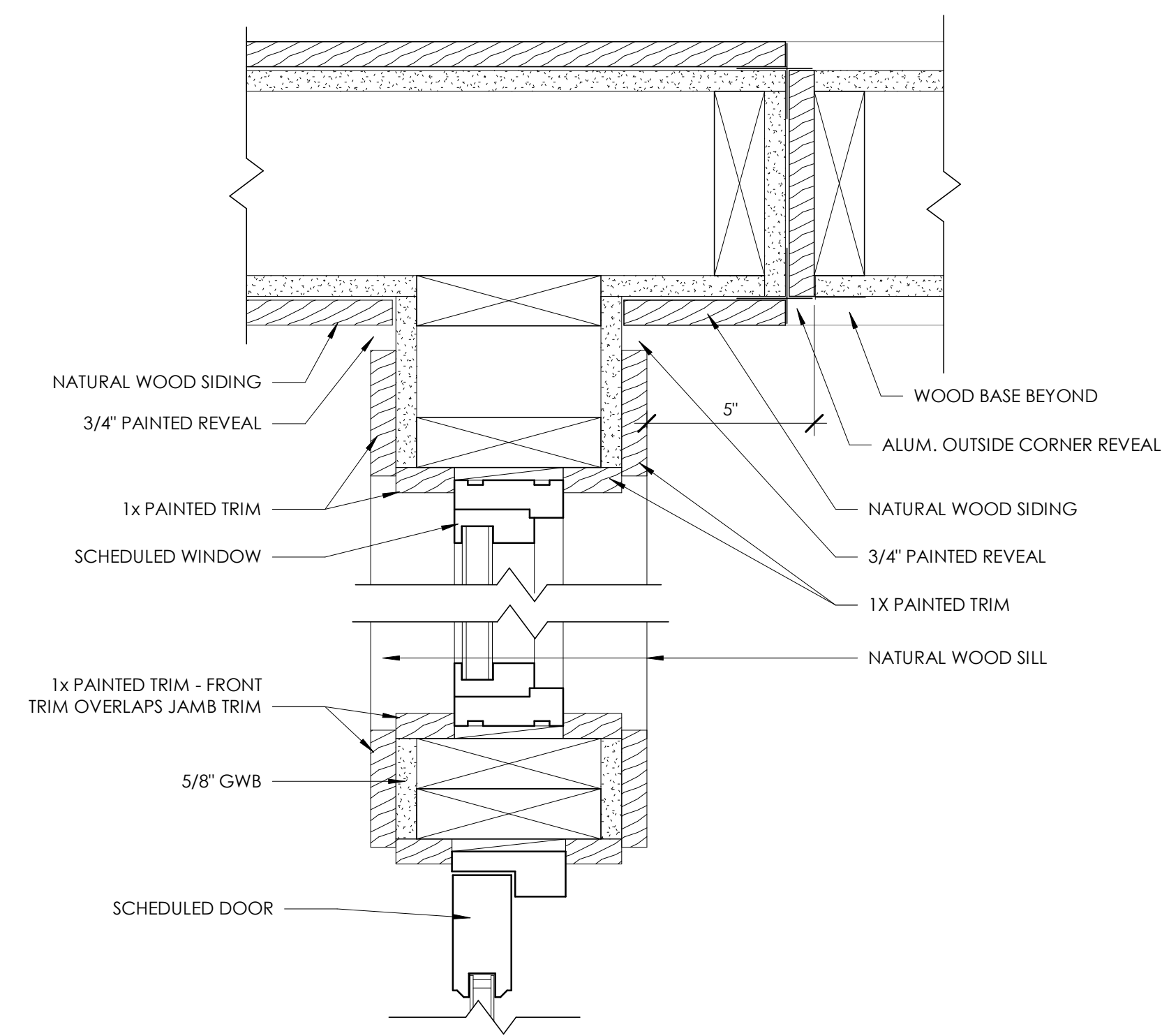
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**KUA
KILTON/WELCH
DORMITORIES**

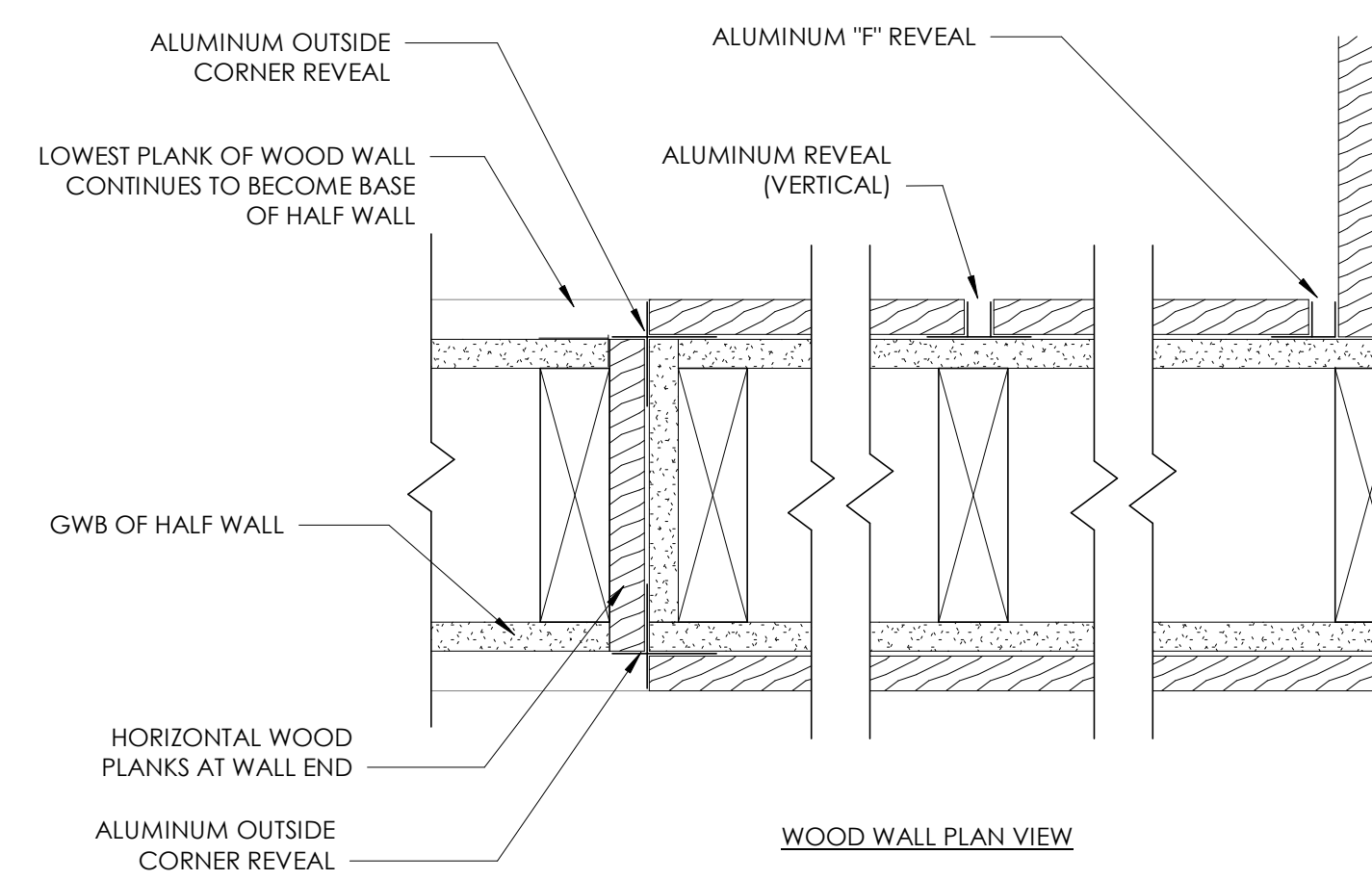
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**KILTON
INTERIOR DETAILS**

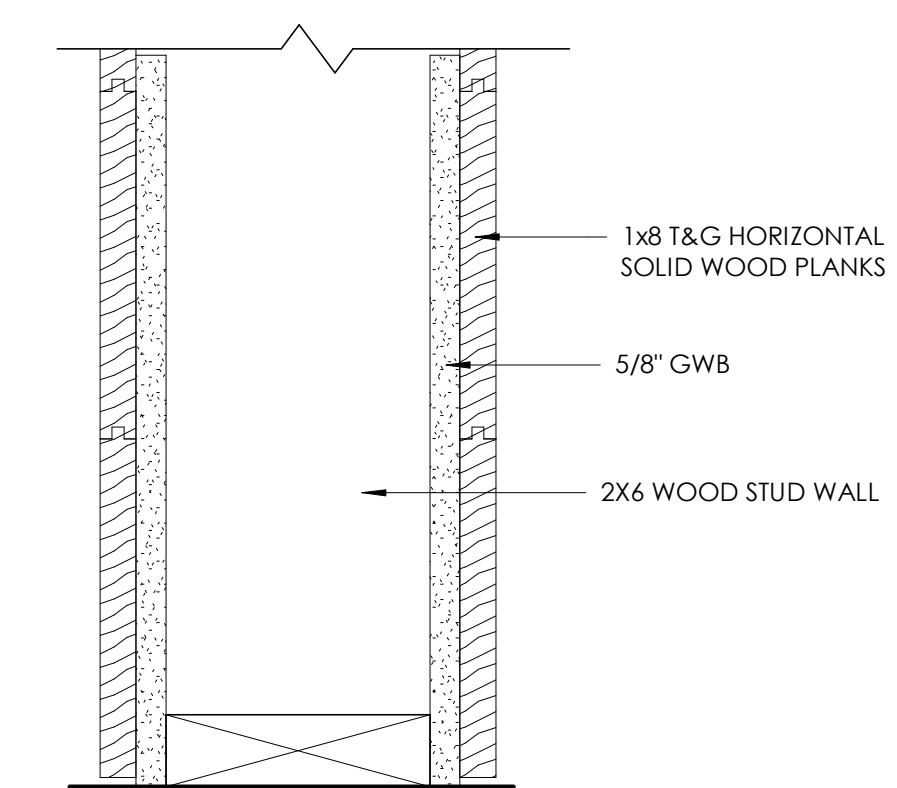
AK-6.11



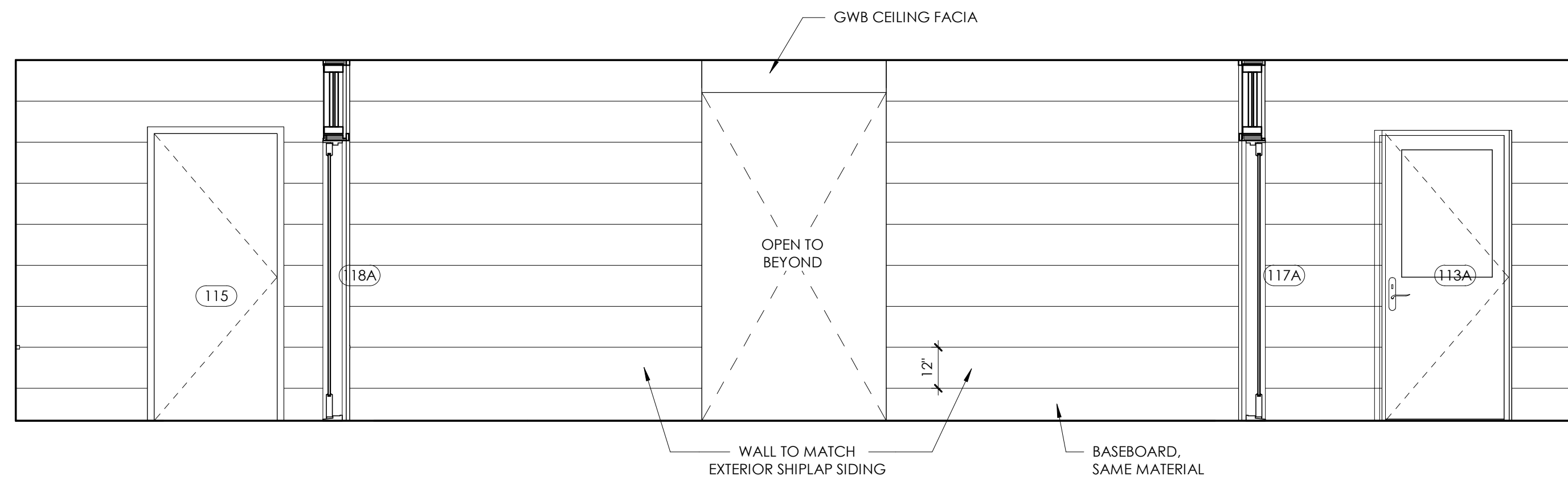
2 Vestibule Wall
3" = 1'-0"



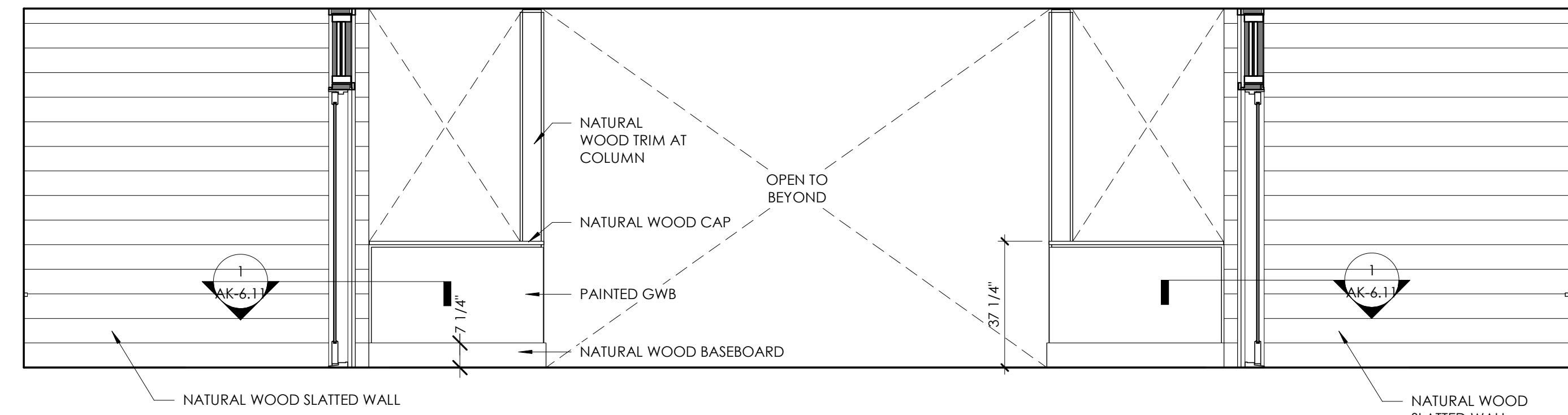
1 Wood Wall
3" = 1'-0"



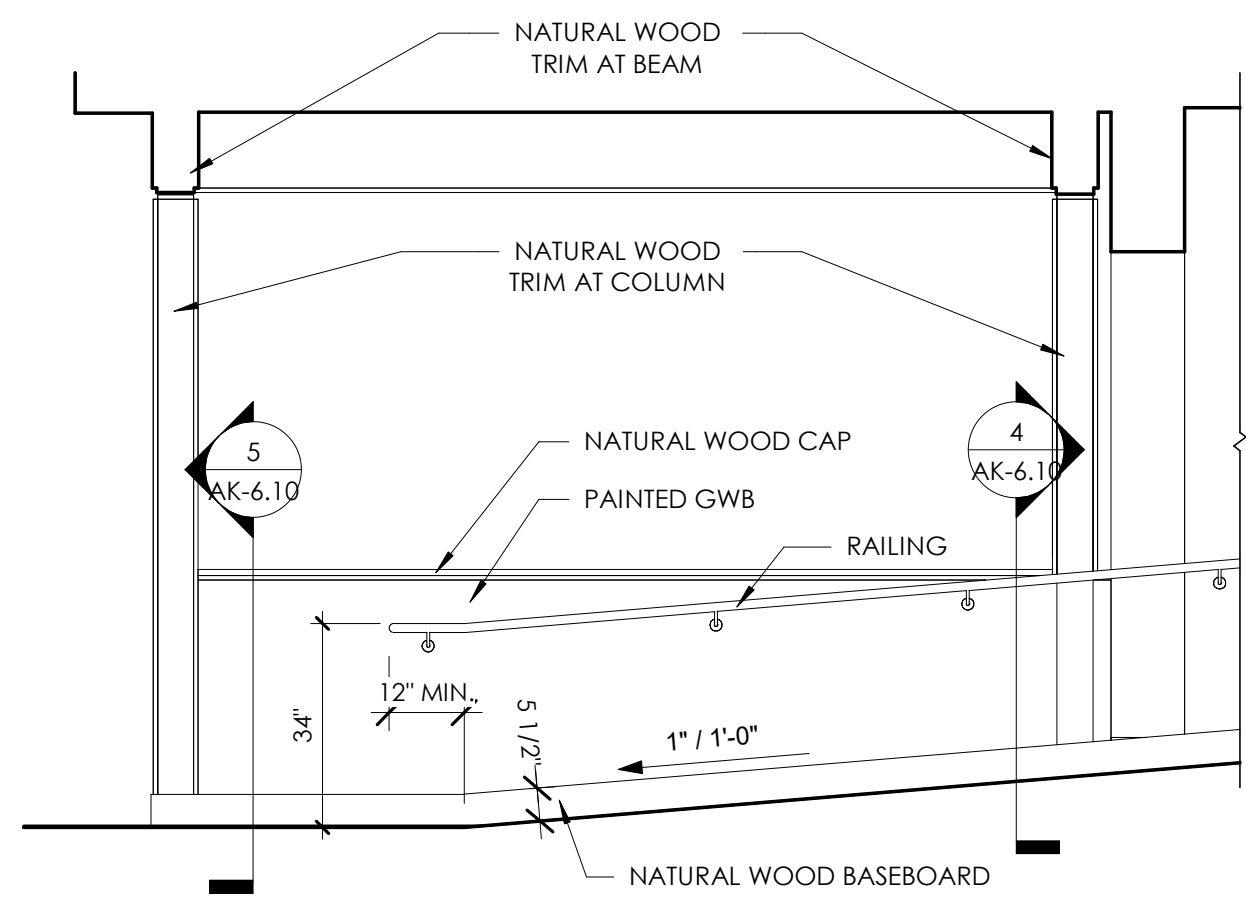
WOOD WALL SECTION



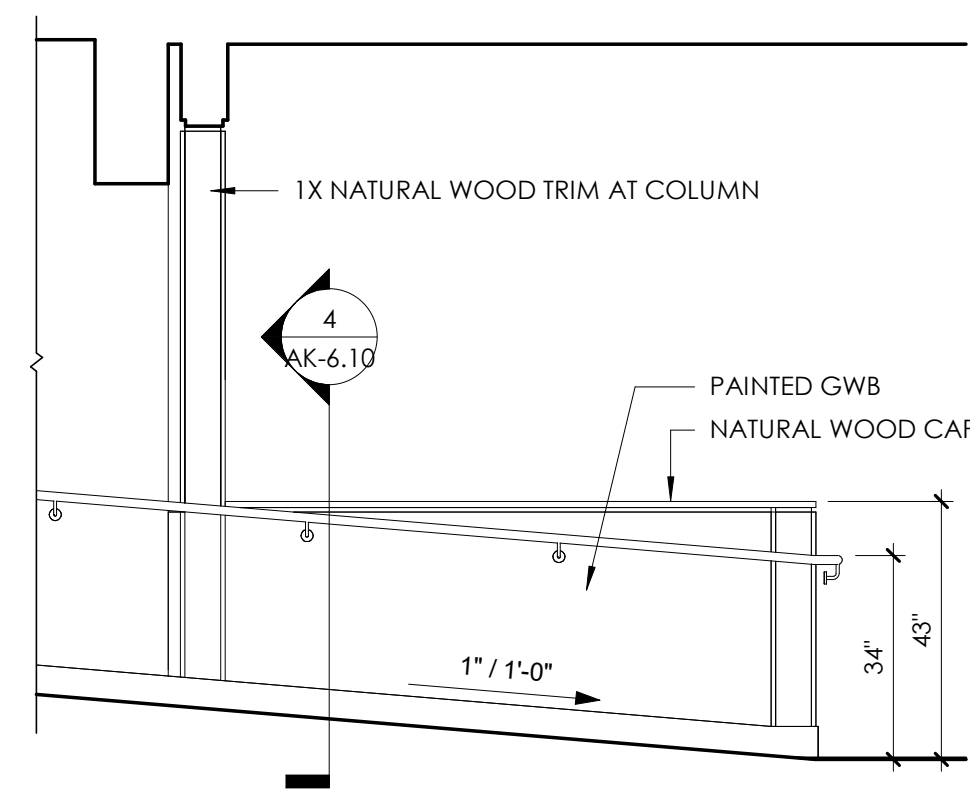
2 Lobby / Vestibules South
3/8" = 1'-0"



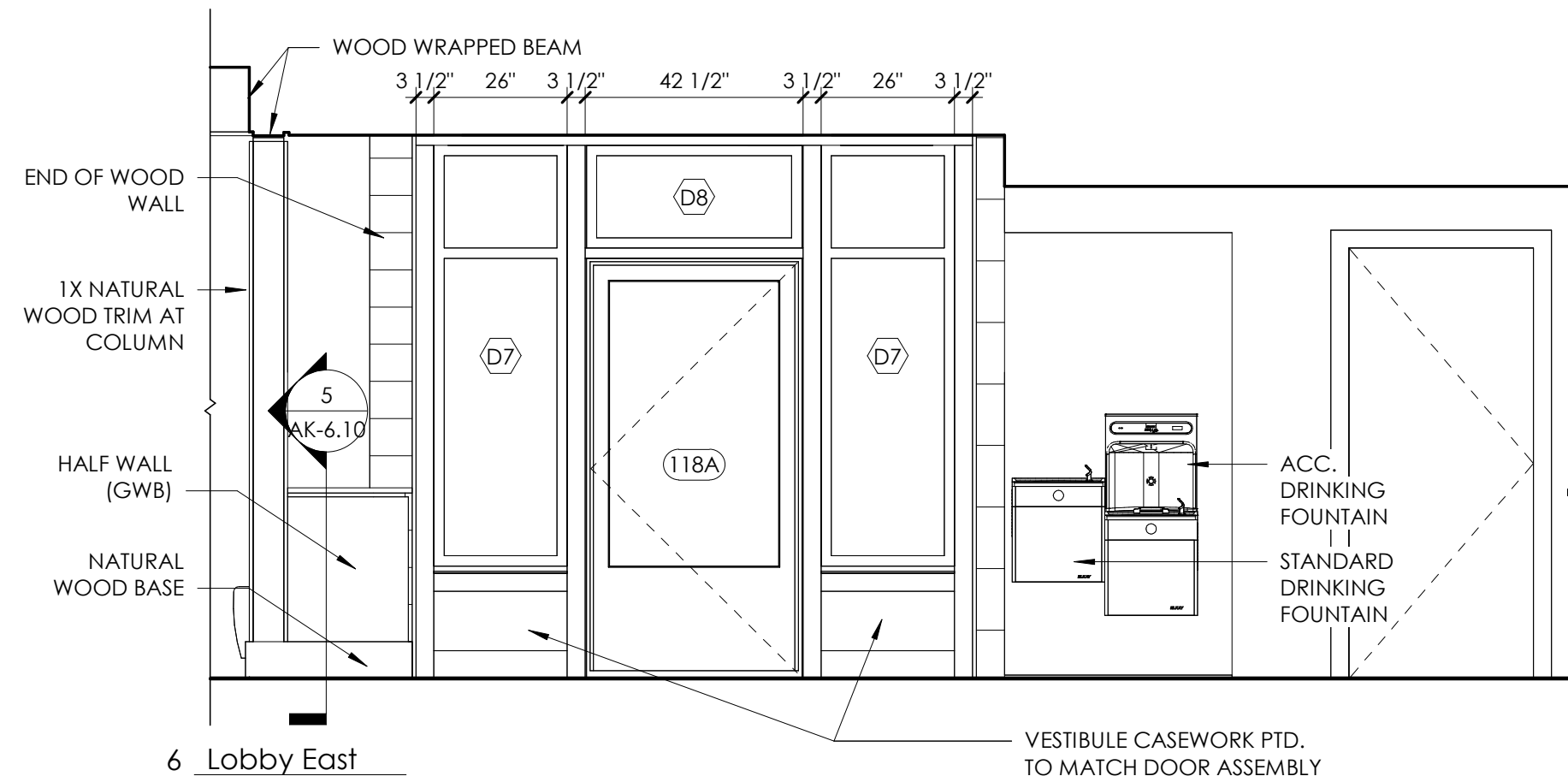
3 Lobby / Vestibules North
3/8" = 1'-0"



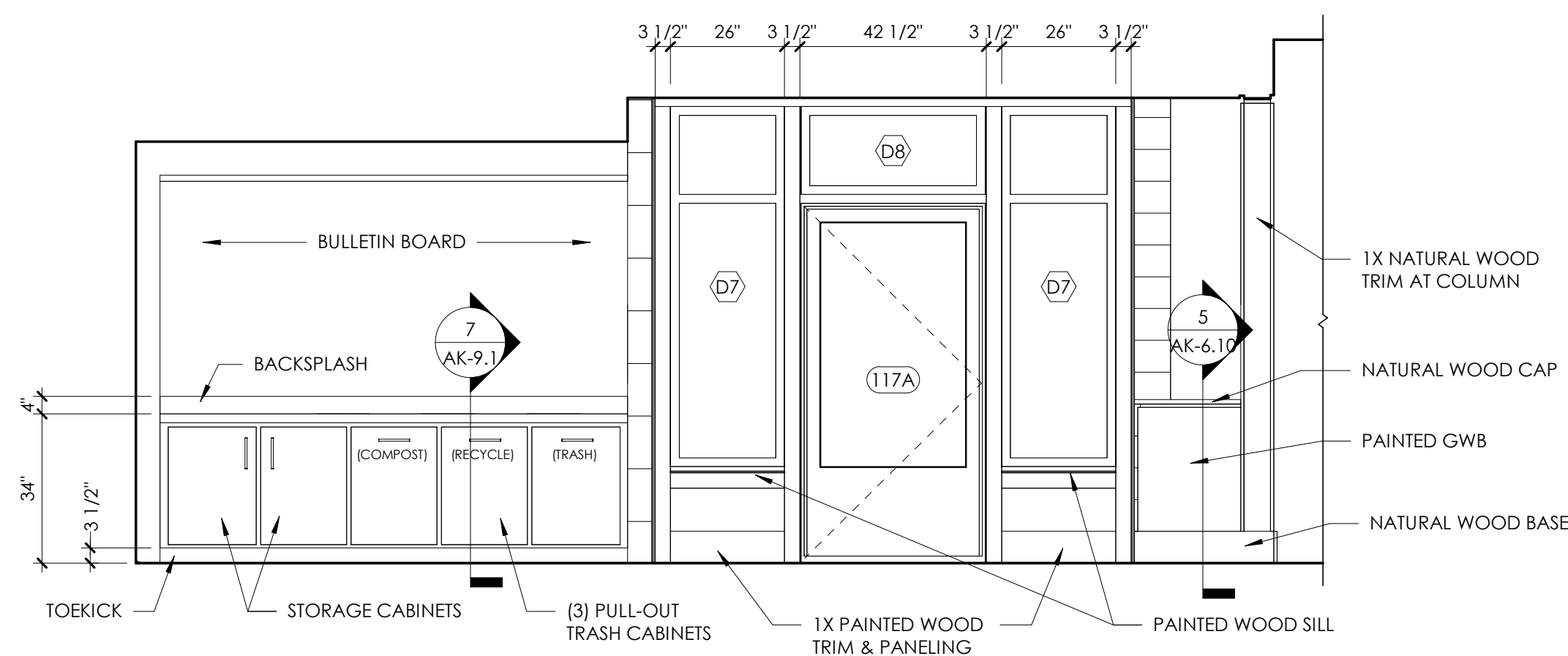
4 Ramp & Half Wall 1
3/8" = 1'-0"



5 Ramp & Half Wall 2
3/8" = 1'-0"



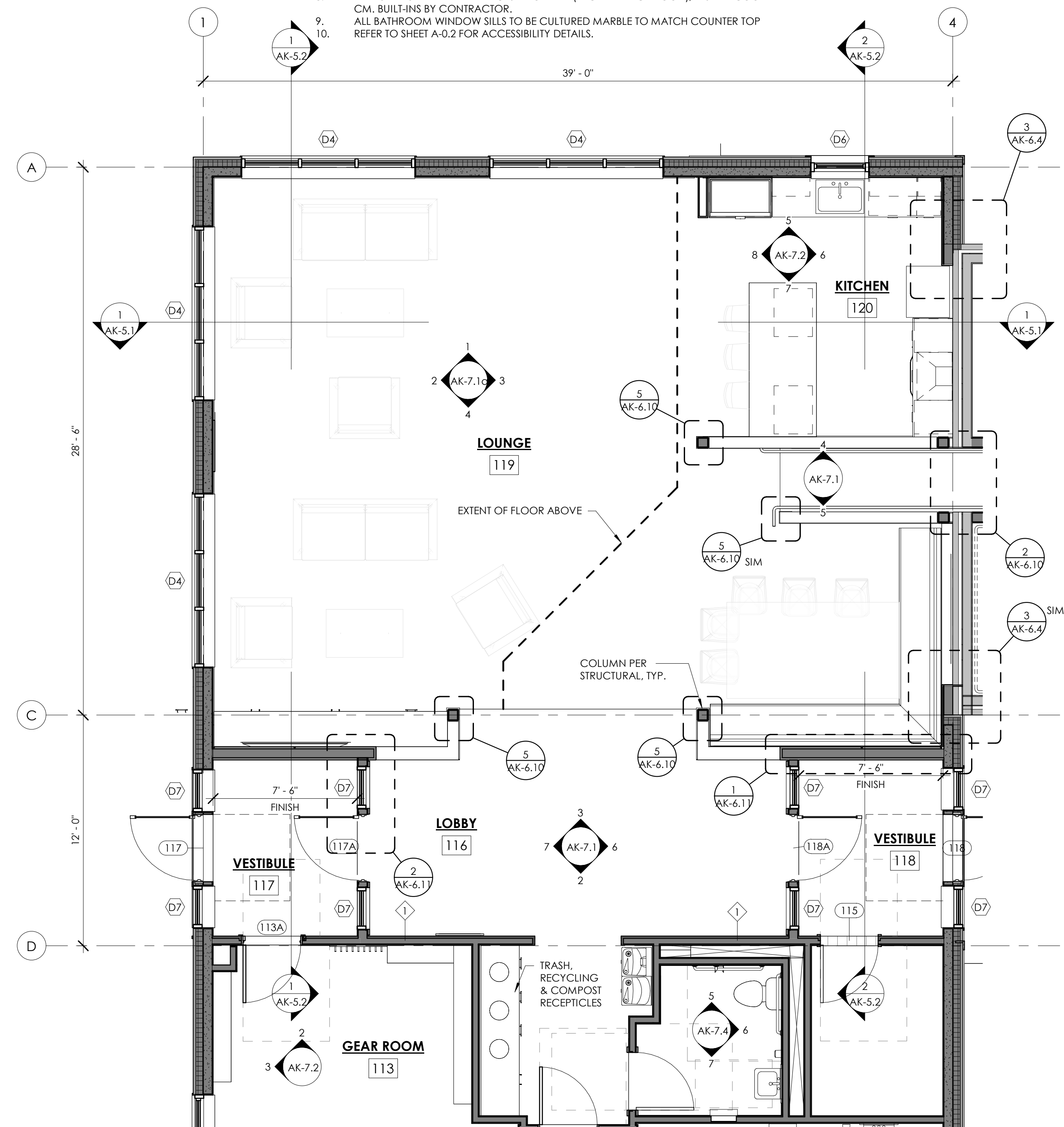
6 Lobby East
3/8" = 1'-0"



7 Lobby West
3/8" = 1'-0"

ENLARGED DRAWING GENERAL NOTES:

1. ALL WALL/PARTITION DIMENSIONS TO FACE-OF-FRAMING, U.O.N.
2. ALL DIMENSIONS TO BUILT-IN ITEMS AND IN BATHROOMS ARE TO FACE-OF-FINISH, U.O.N.
3. ALL DIMENSIONS TO FIXTURES ARE TO FACE-OF-FINISH OR CENTER-OF-FIXTURE.
4. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
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6. SEE SHEET AK-0.6 FOR INFORMATION ON INTERIOR PARTITIONS.
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8. ALL FURNITURE AND APPLIANCES BY OWNER (EXCEPT RANGE HOOD); INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
9. ALL BATHROOM WINDOW SILLS TO BE CULTURED MARBLE TO MATCH COUNTER TOP
10. REFER TO SHEET A-0.2 FOR ACCESSIBILITY DETAILS.



1 Dining-Lounge-Kitchen Enlarged Plan
1/4" = 1'-0"

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MECH./PLUMBING ENGINEER

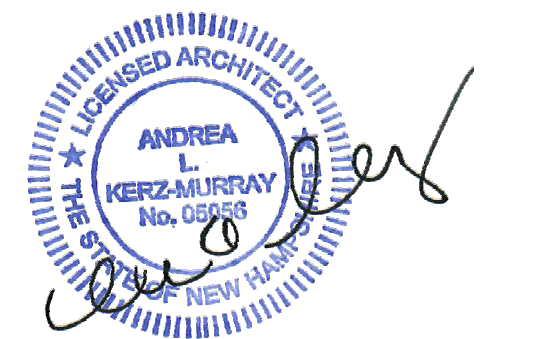
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802.863.8727



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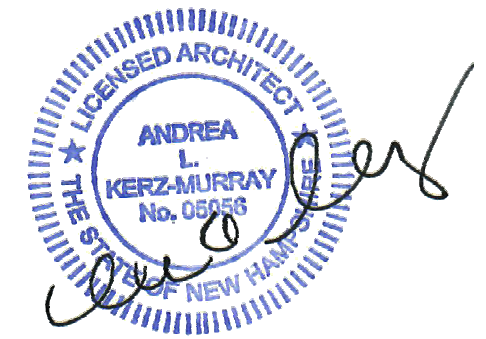
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

KILTON
ENLARGED
COMMON AREA
DRAWINGS

AK-7.1



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**KUA
 KILTON/WELCH
 DORMITORIES**

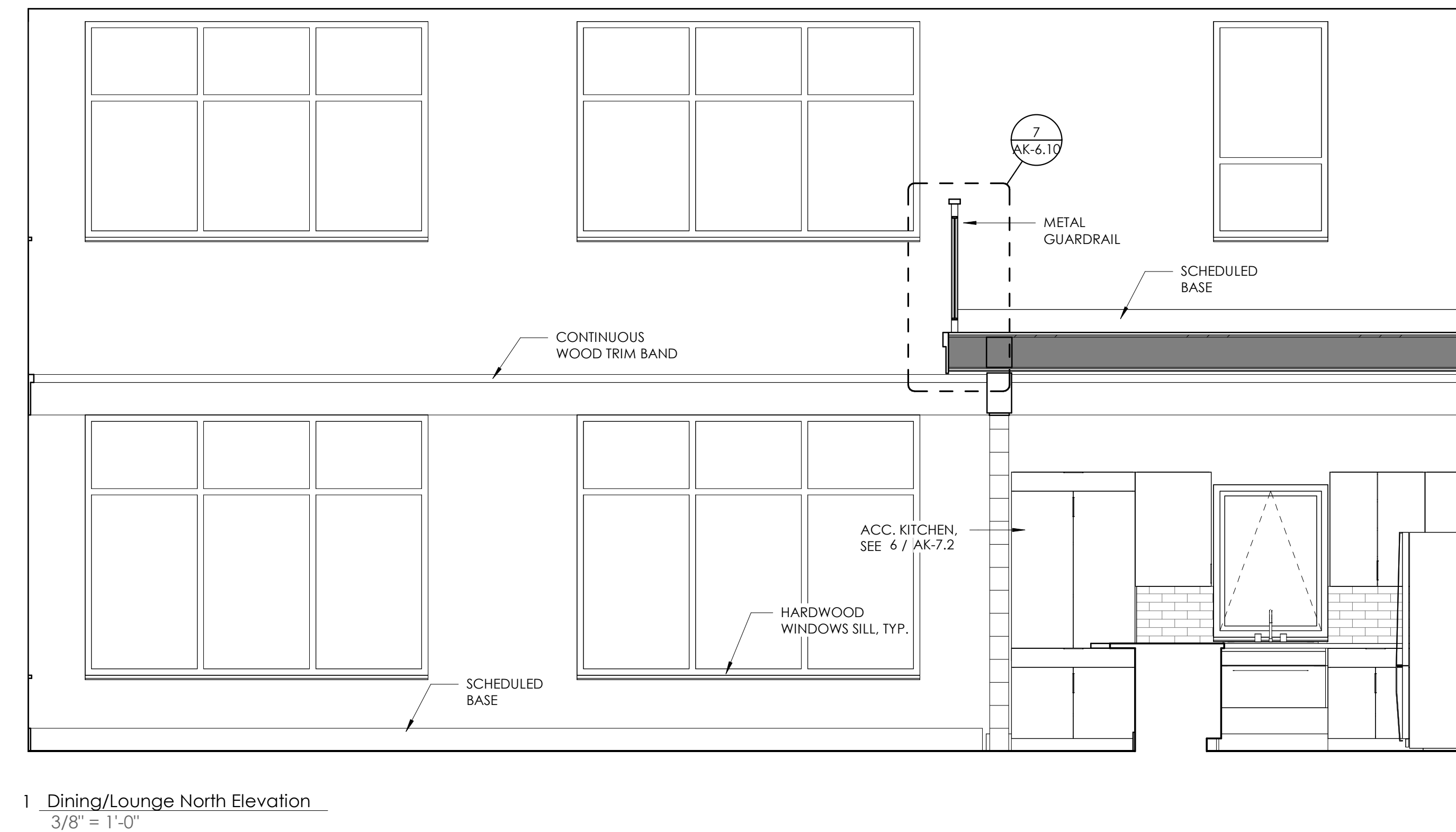
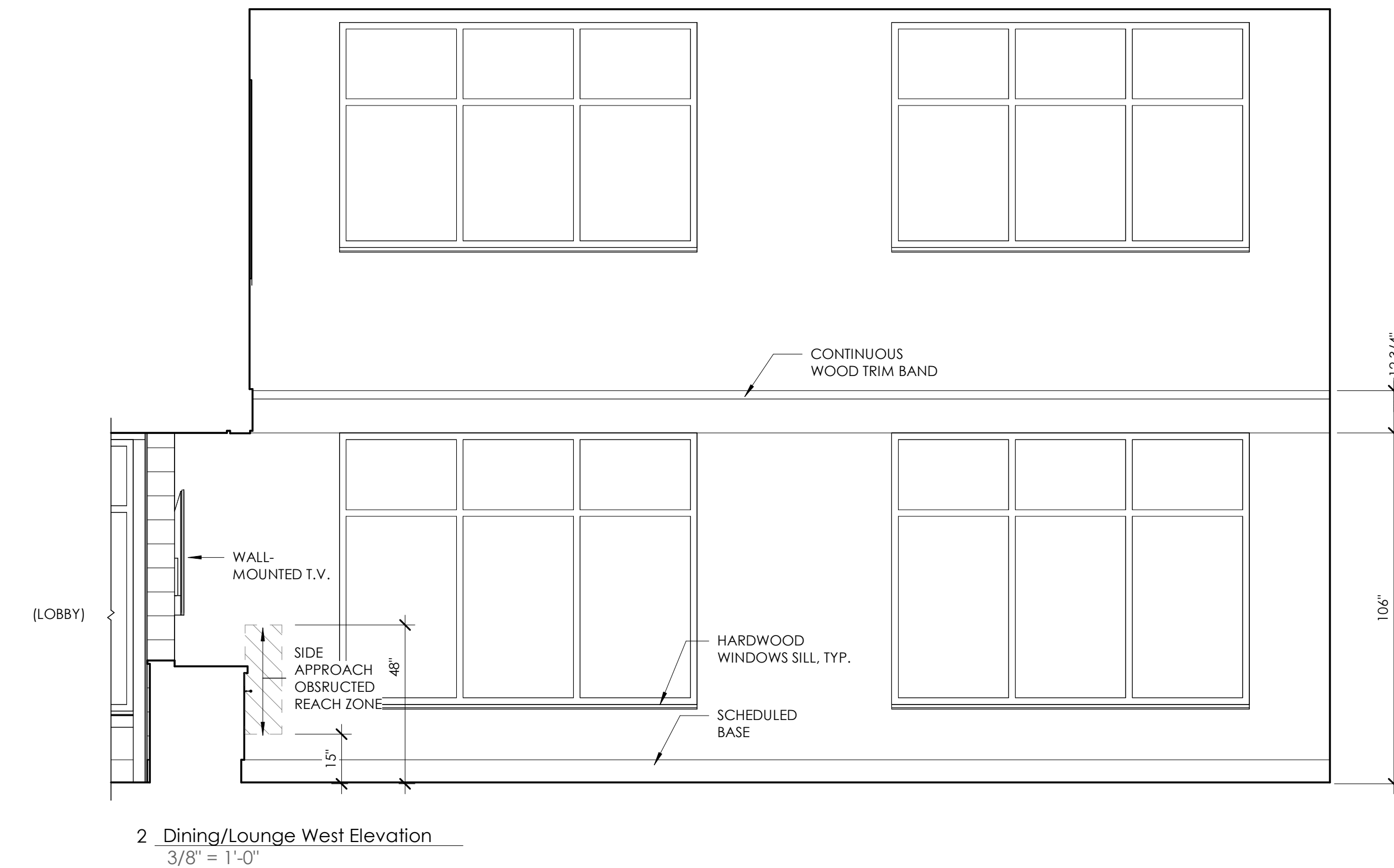
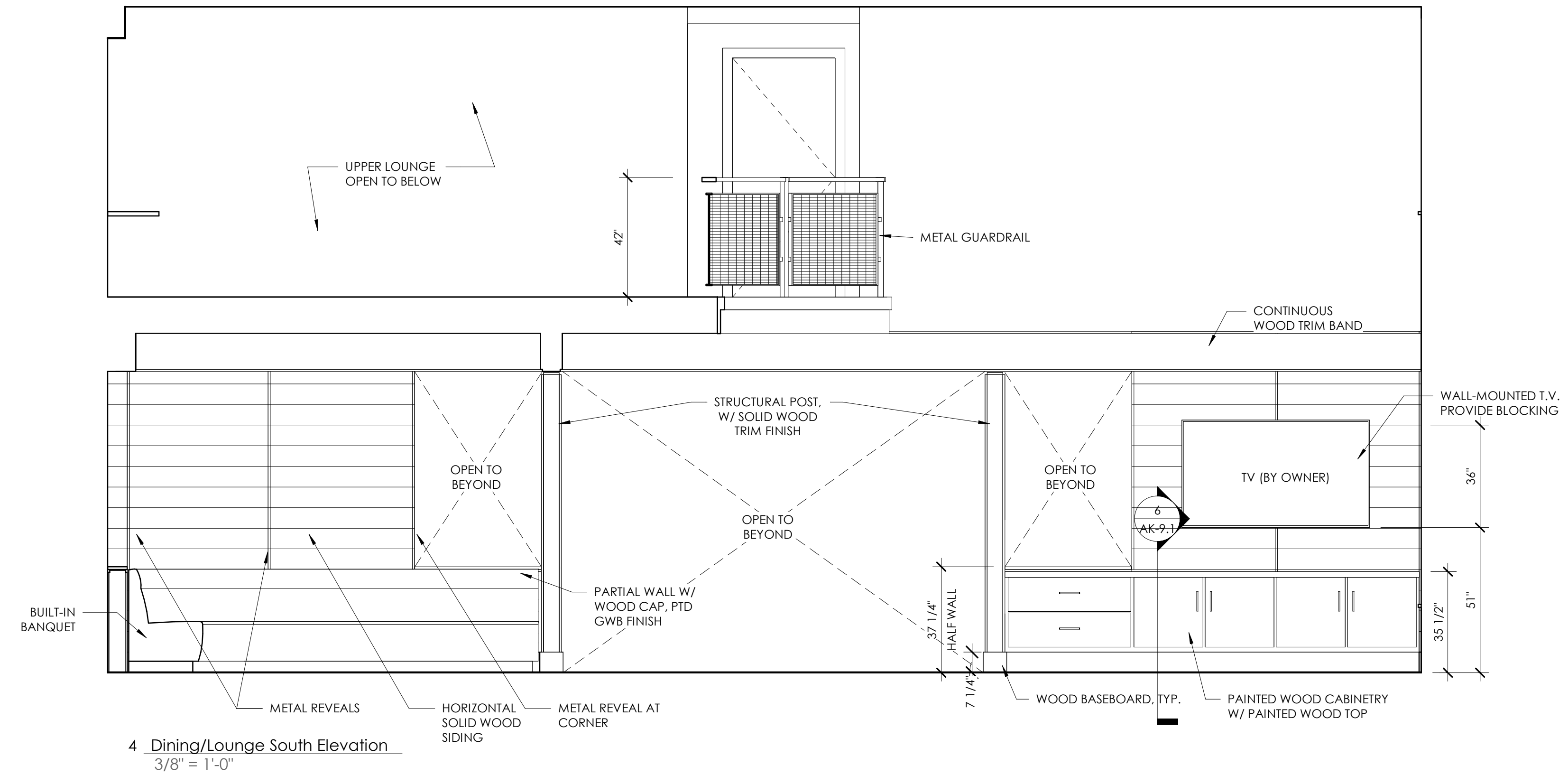
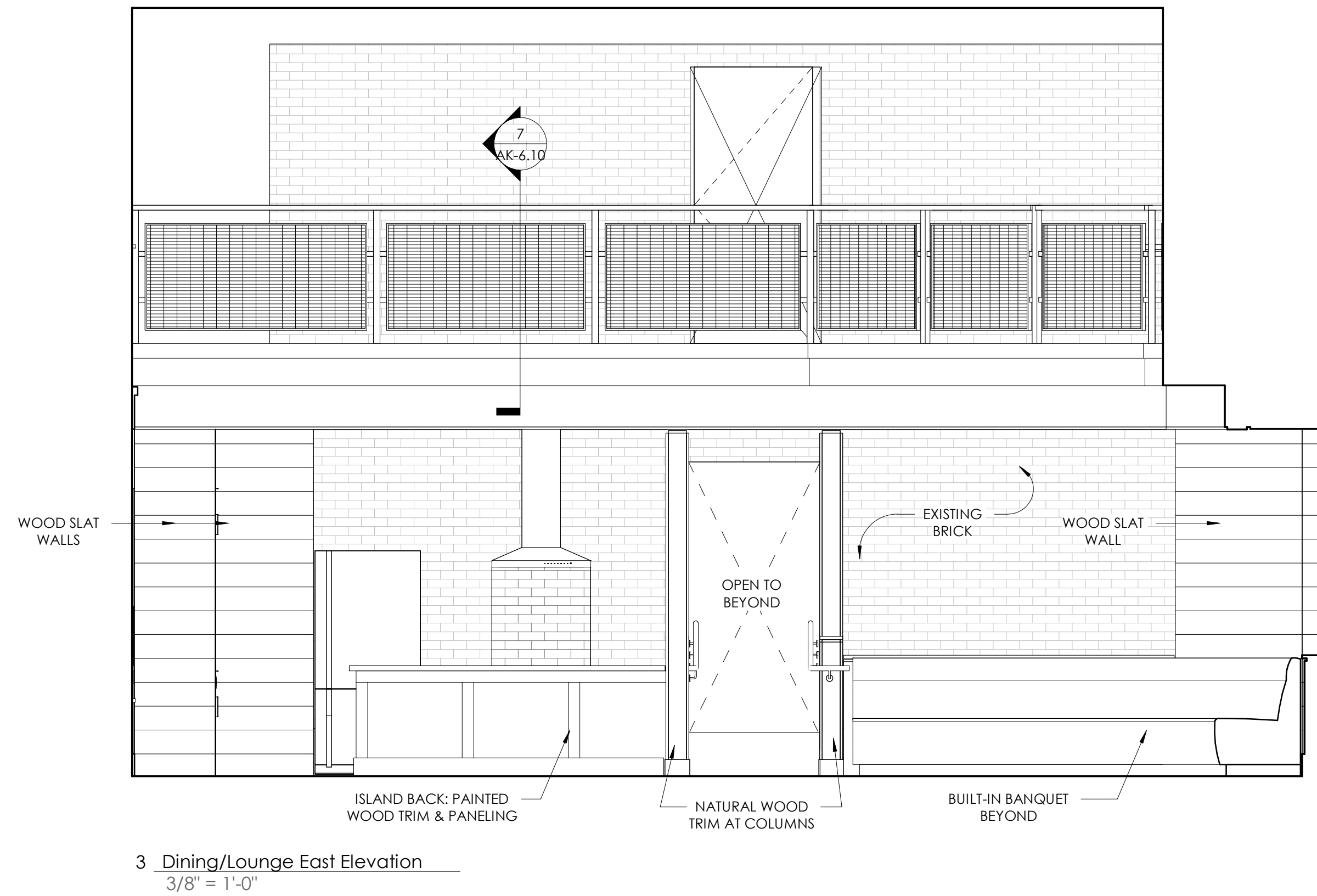
Main Street,
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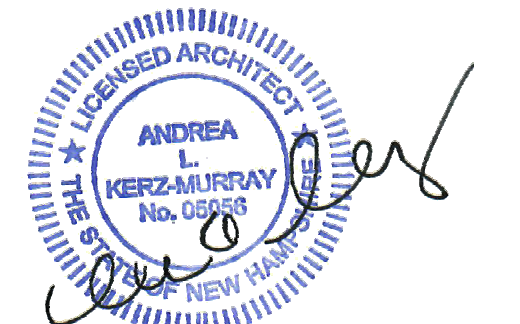
**KILTON
 ENLARGED
 COMMON AREA
 ELEVATIONS**

AK-7.1a

ENLARGED DRAWING GENERAL NOTES:

1. ALL WALL/PARTITION DIMENSIONS TO FACE-OF-FRAMING, U.O.N.
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10. REFER TO SHEET A-0.2 FOR ACCESSIBILITY DETAILS.





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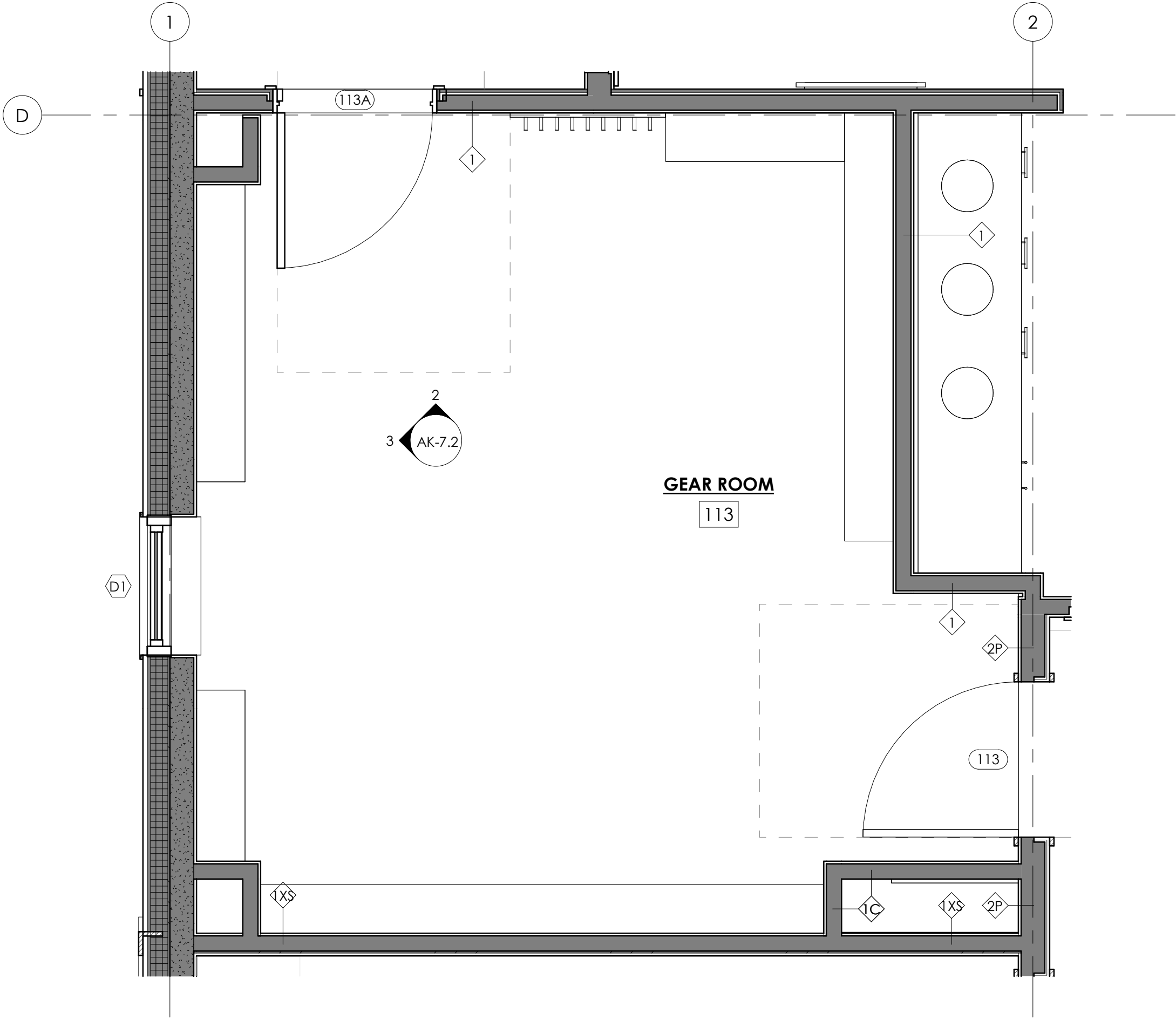
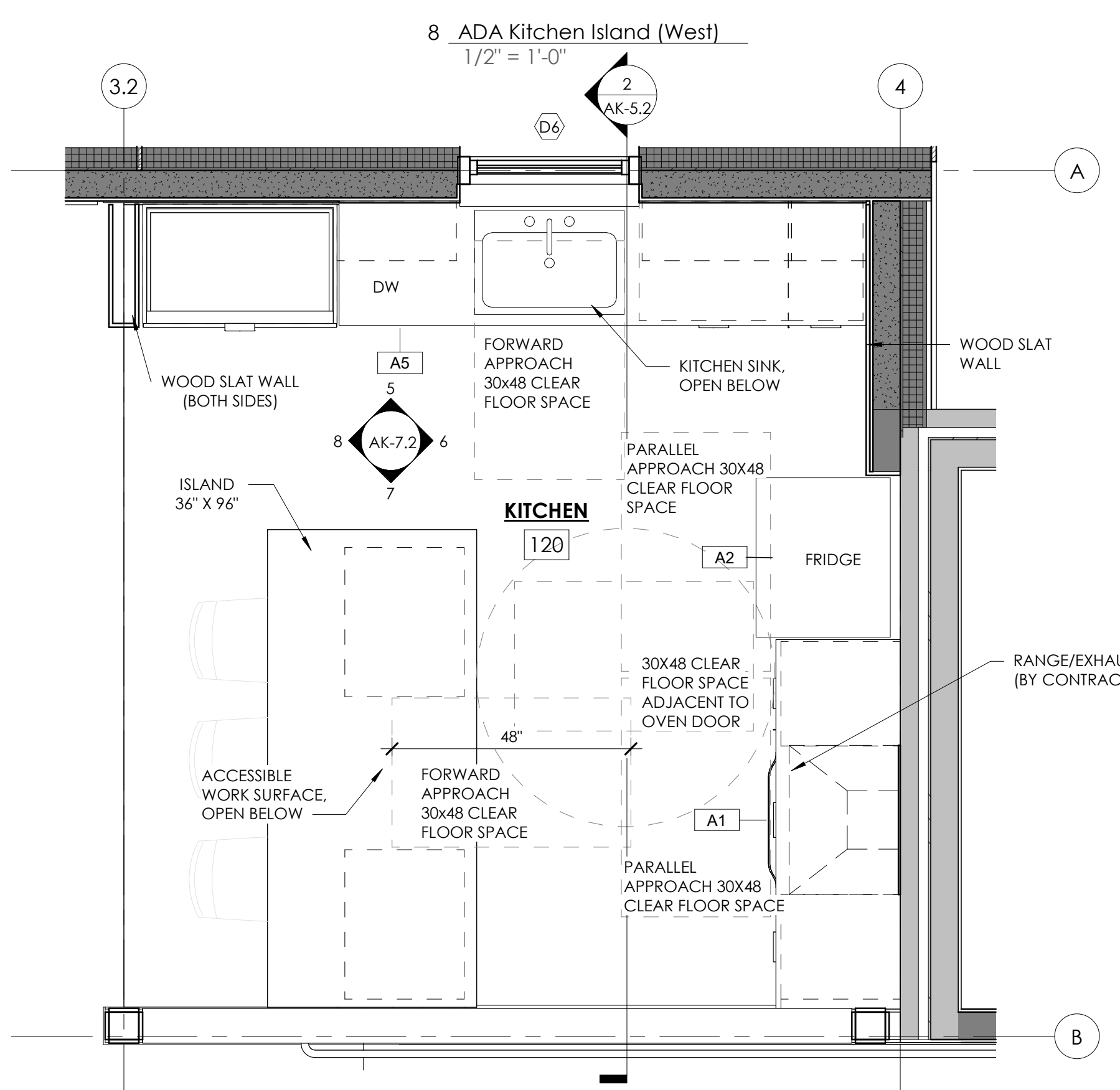
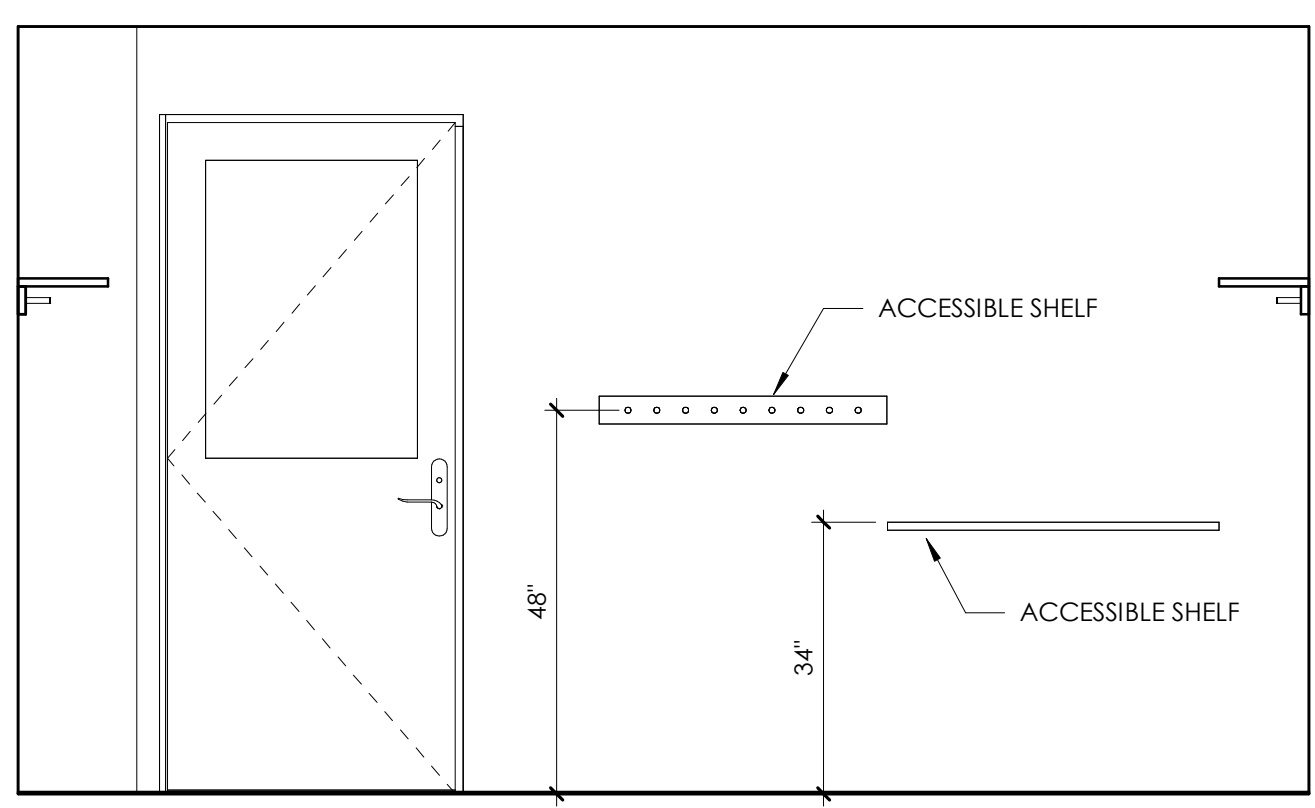
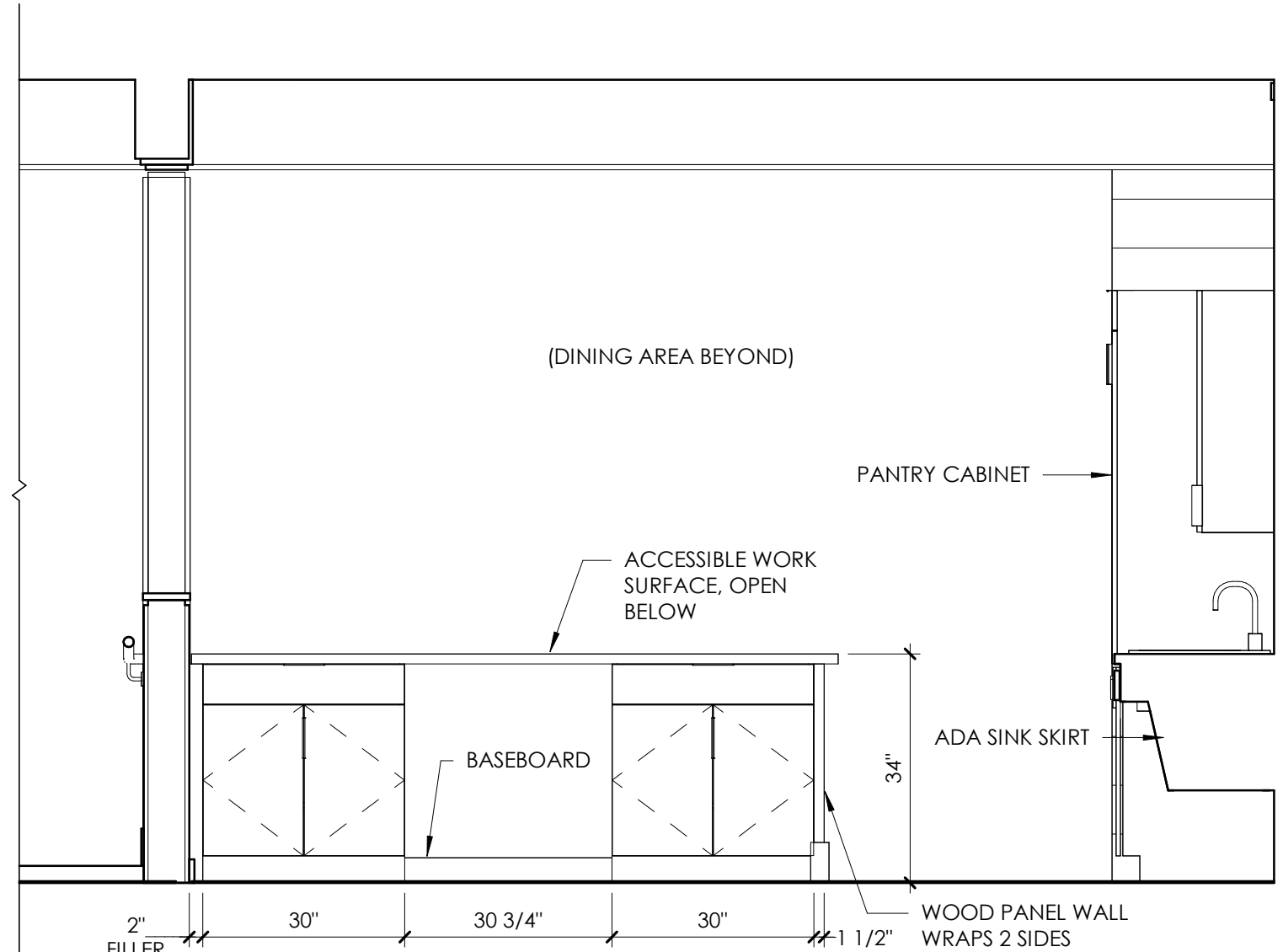
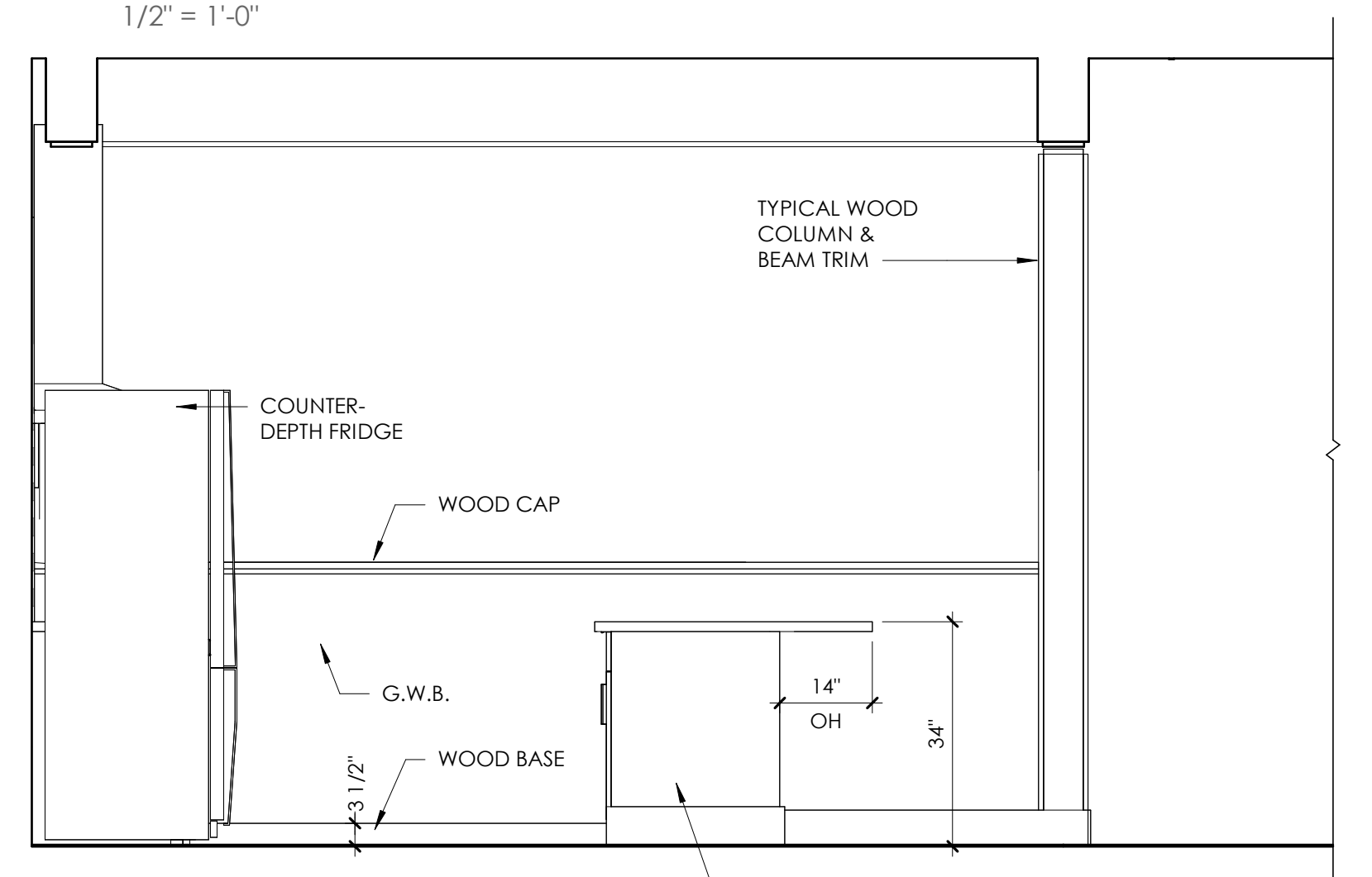
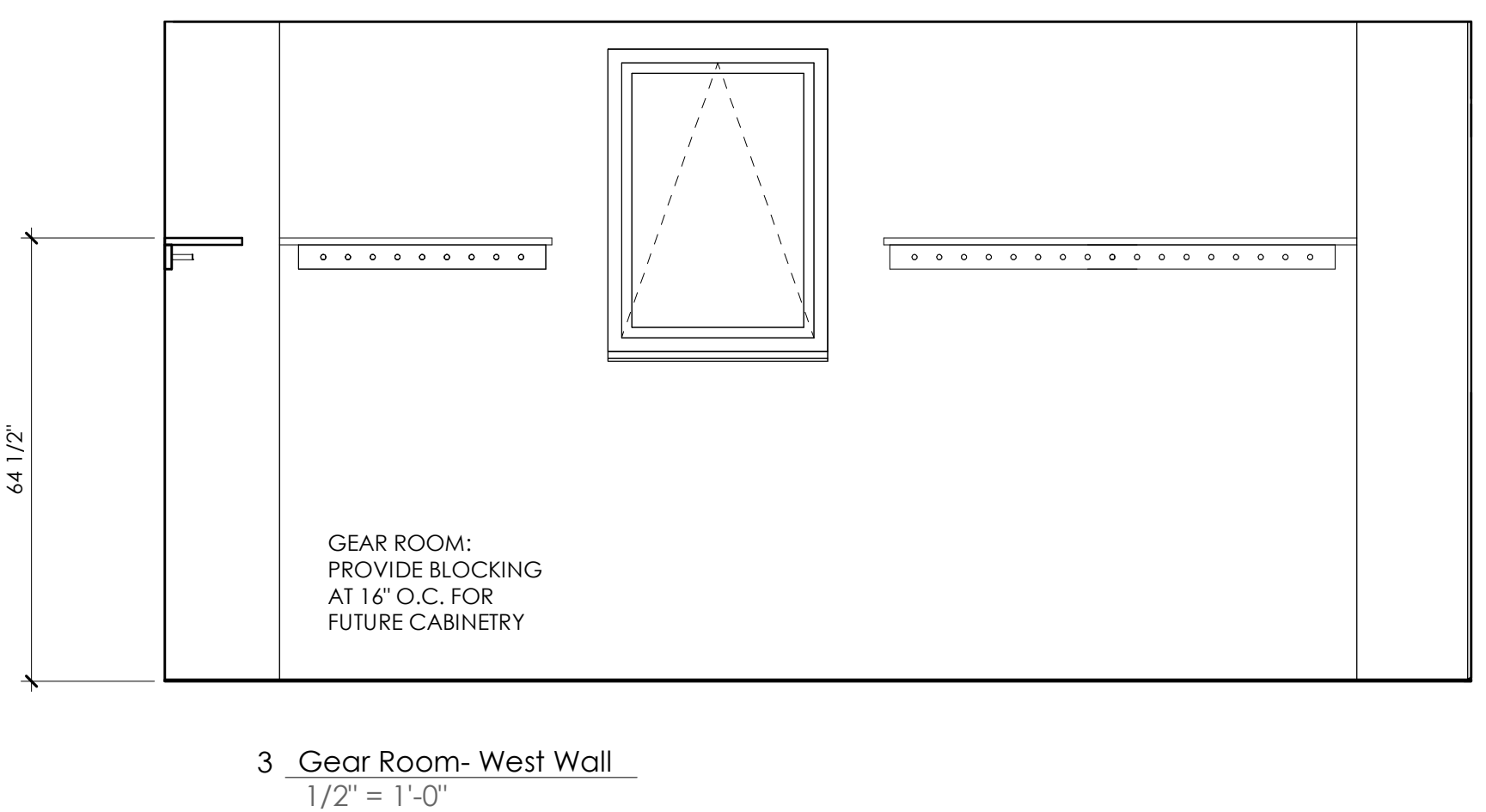
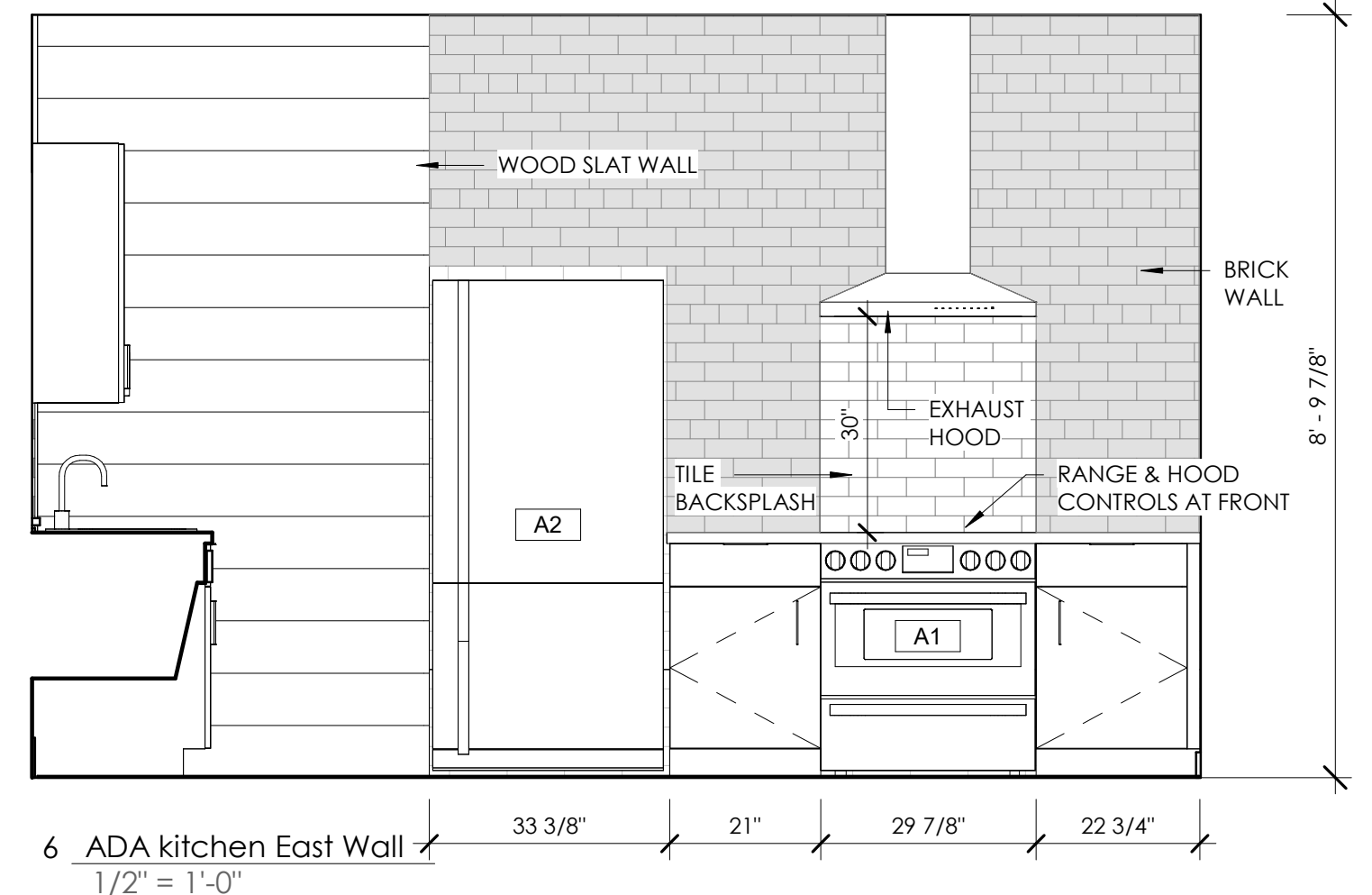
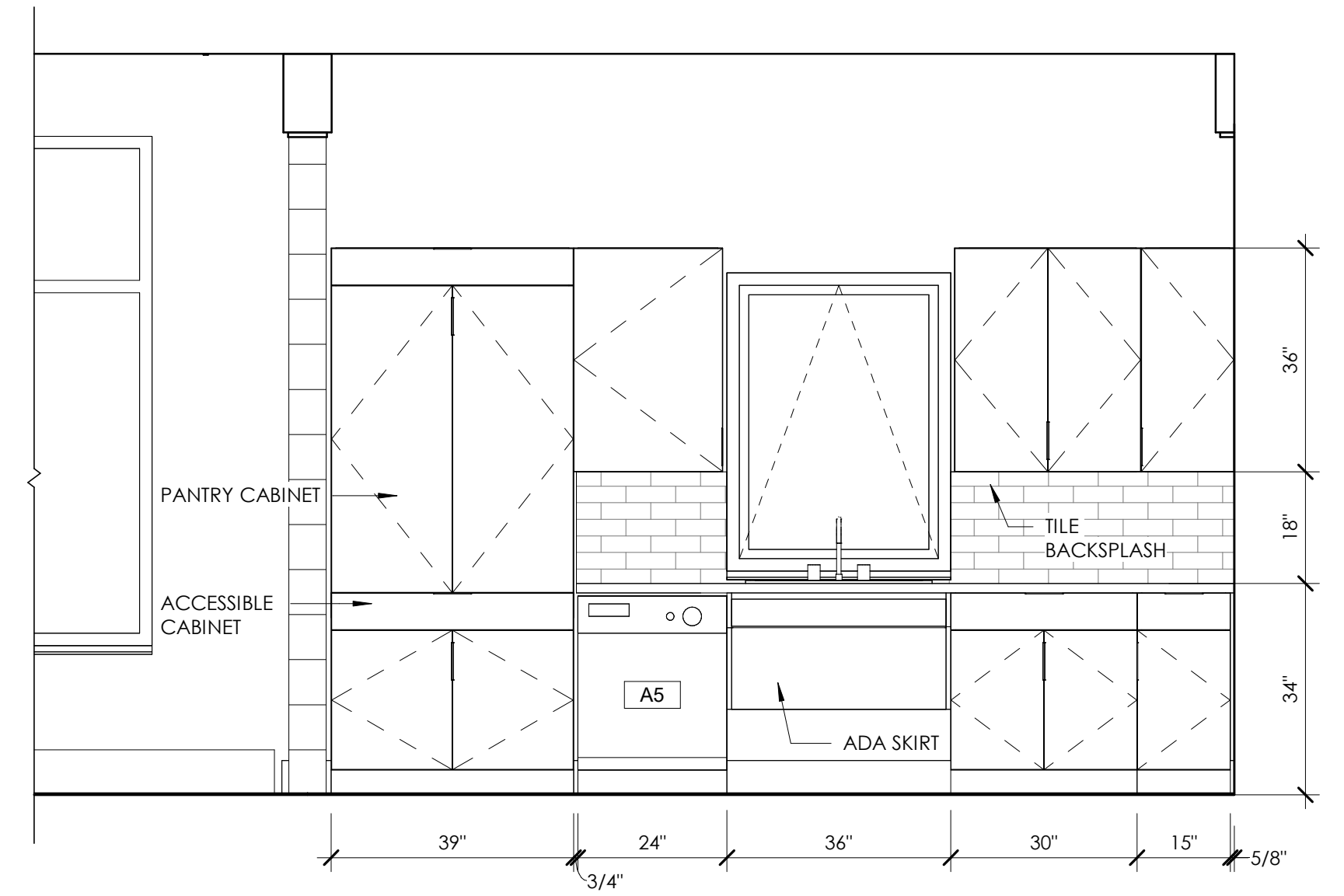
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

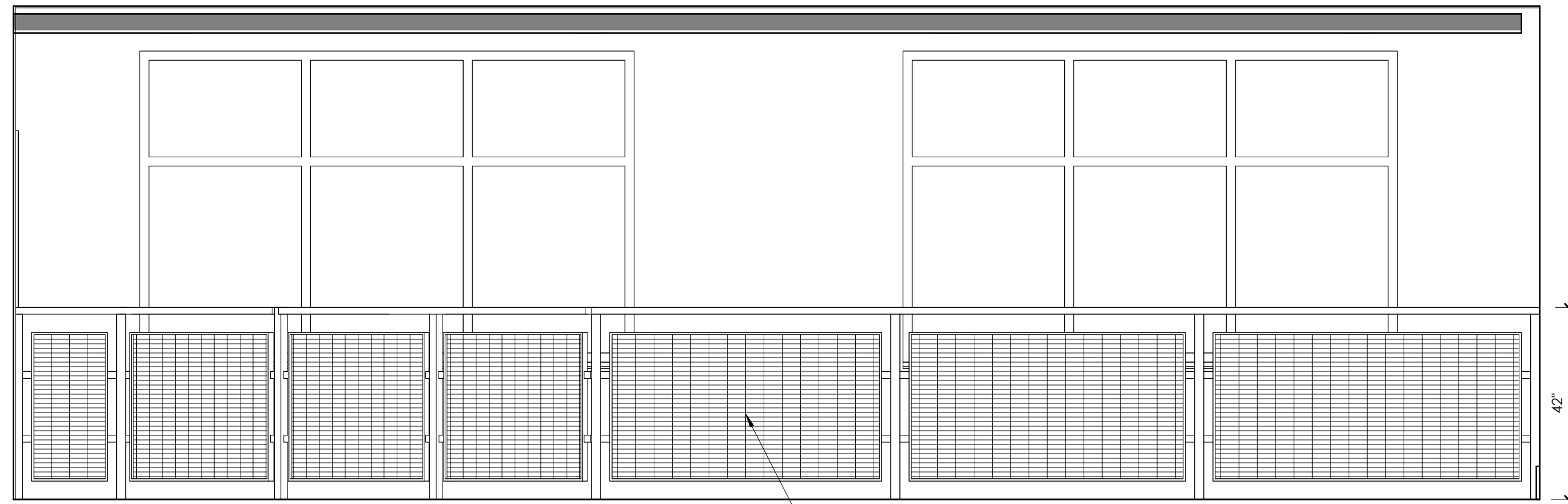
KILTON
ENLARGED PLANS
& ELEVATIONS
GEAR & KITCHEN

AK-7.2



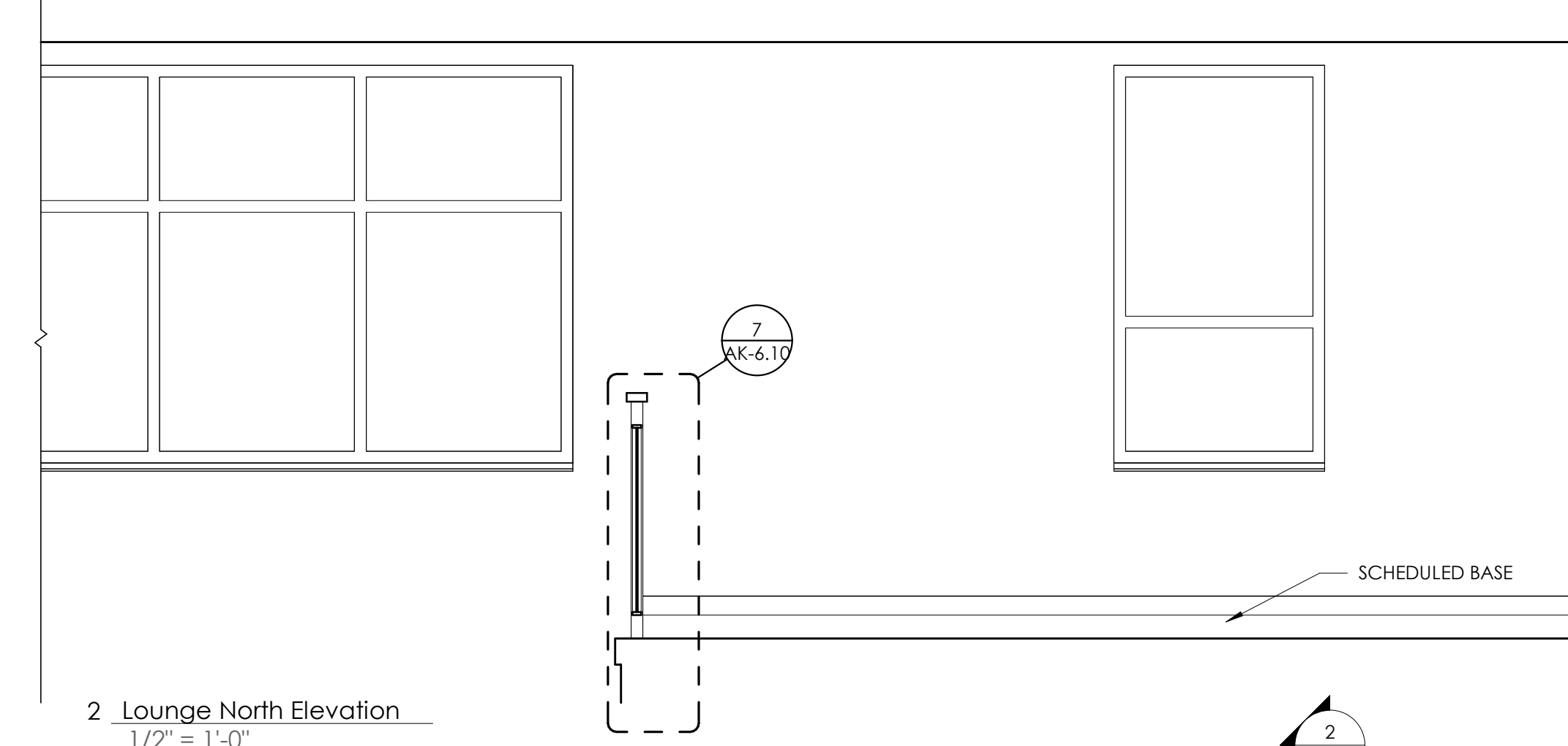
APPLIANCE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
A1	ADA Compliant Induction Range	GE	PH59301PFS	SLIDE-IN RANGE
A2	ADA Compliant Refrigerator	GE	GBE17HYRFS	COUNTER DEPTH REQ'D
A5	ADA Compliant Dishwasher	GE	GDT2255SLSS	

- ENLARGED DRAWING GENERAL NOTES:**
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 - REFER TO SHEET A-0.2 FOR ACCESSIBILITY DETAILS.



5 Lounge West Elevation
1/2" = 1'-0"

CUSTOM GAURD RAILING SYSTEM

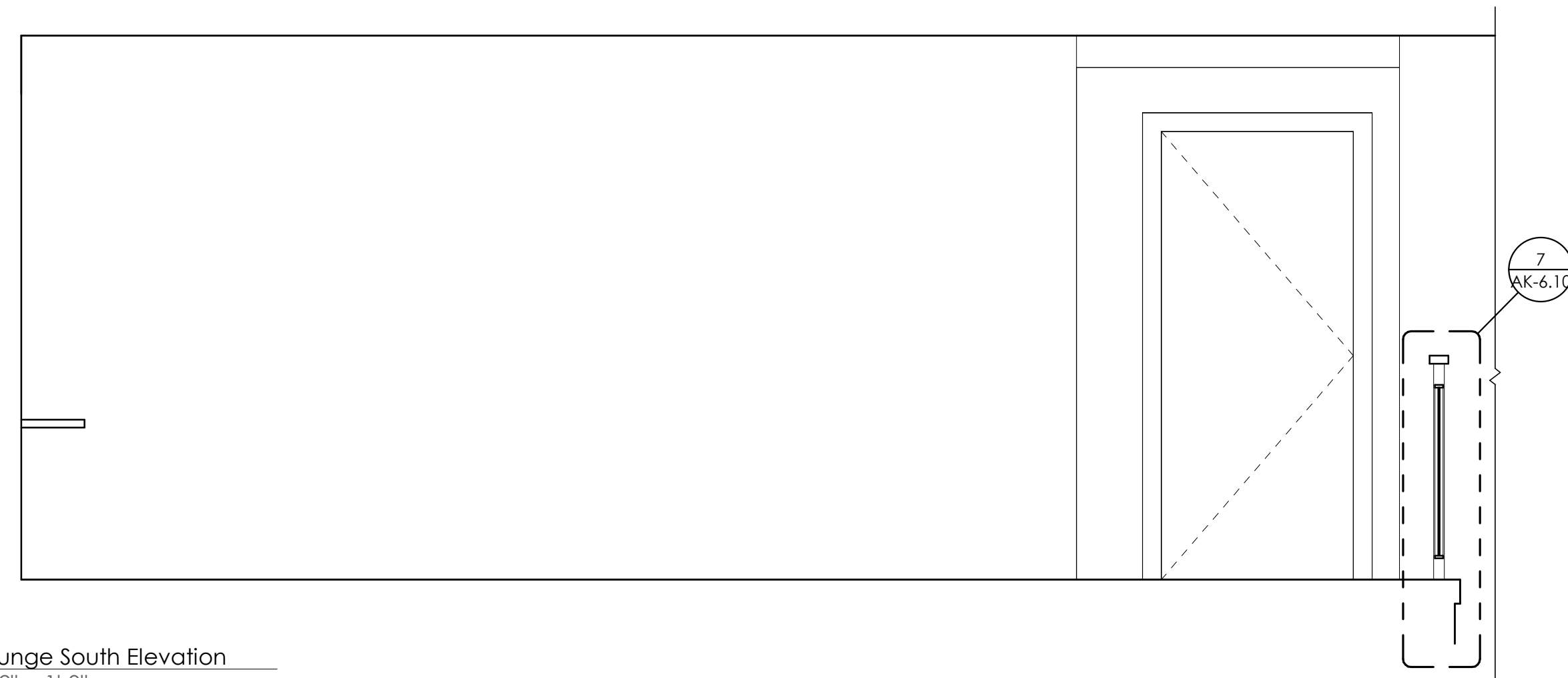


2 Lounge North Elevation
1/2" = 1'-0"

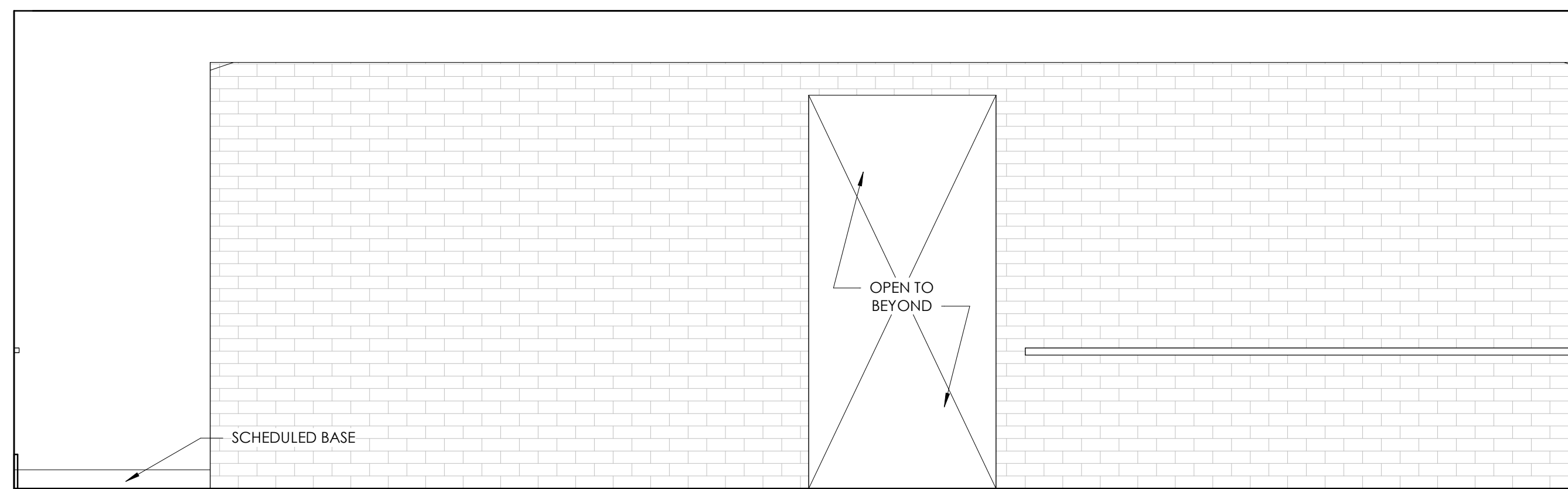
SCHEDULED BASE

ENLARGED DRAWING GENERAL NOTES:

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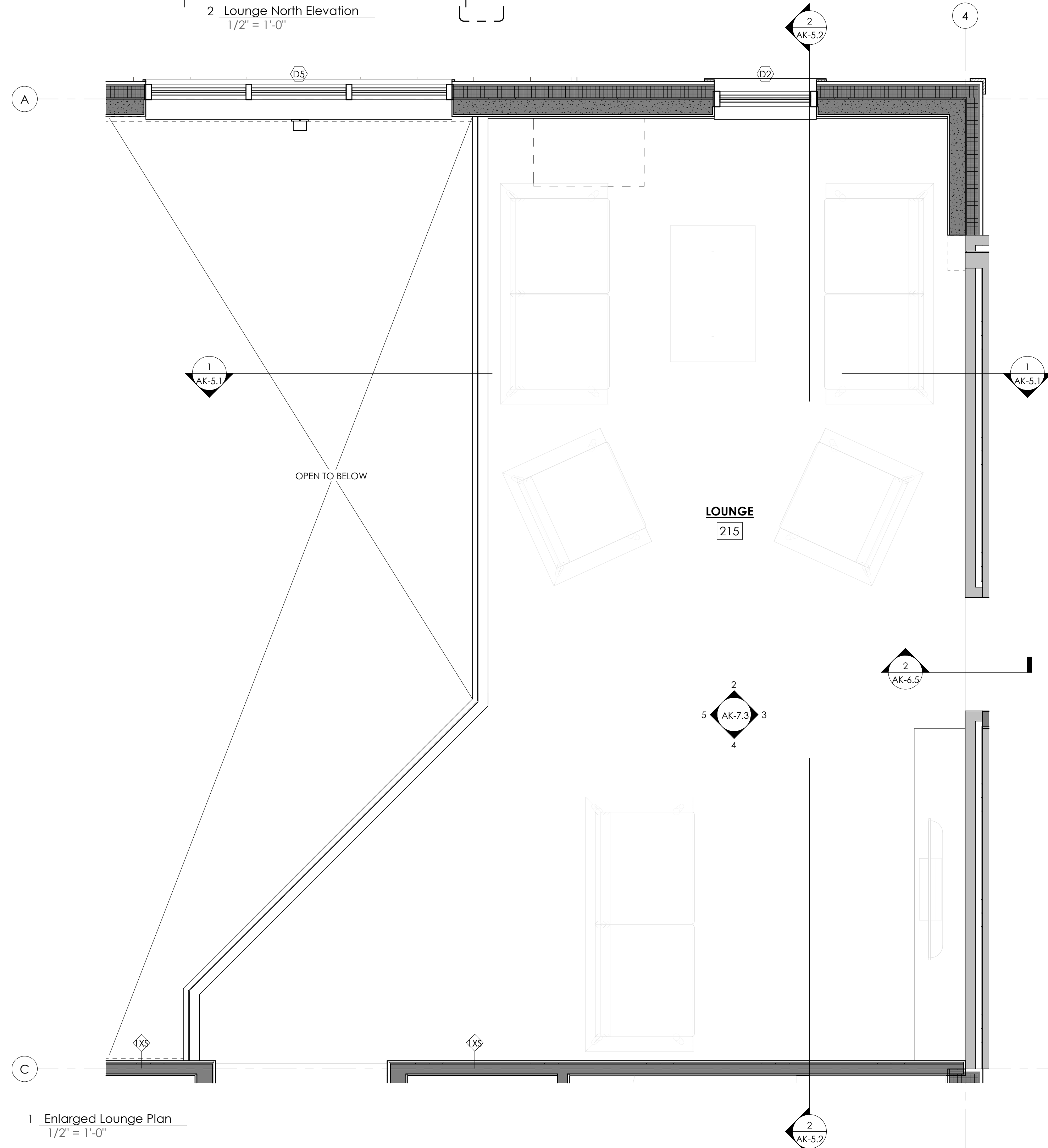
4 Lounge South Elevation
1/2" = 1'-0"



3 Lounge East Elevation
1/2" = 1'-0"

SCHEDULED BASE

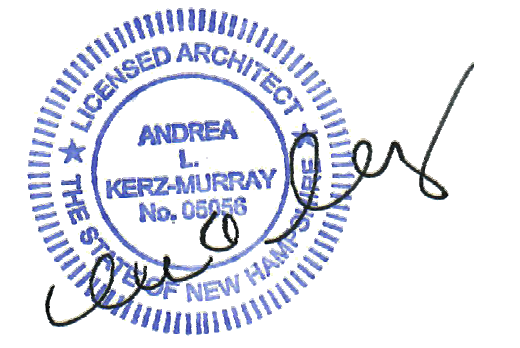
OPEN TO BEYOND



1 Enlarged Lounge Plan
1/2" = 1'-0"

OPEN TO BELOW

LOUNGE
215



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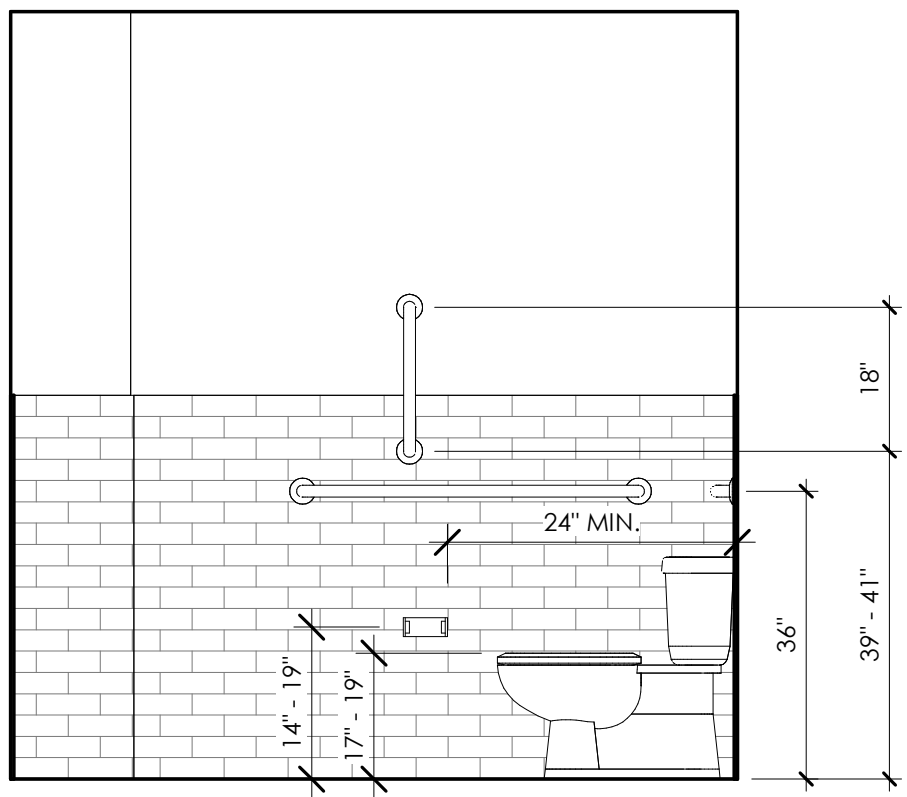
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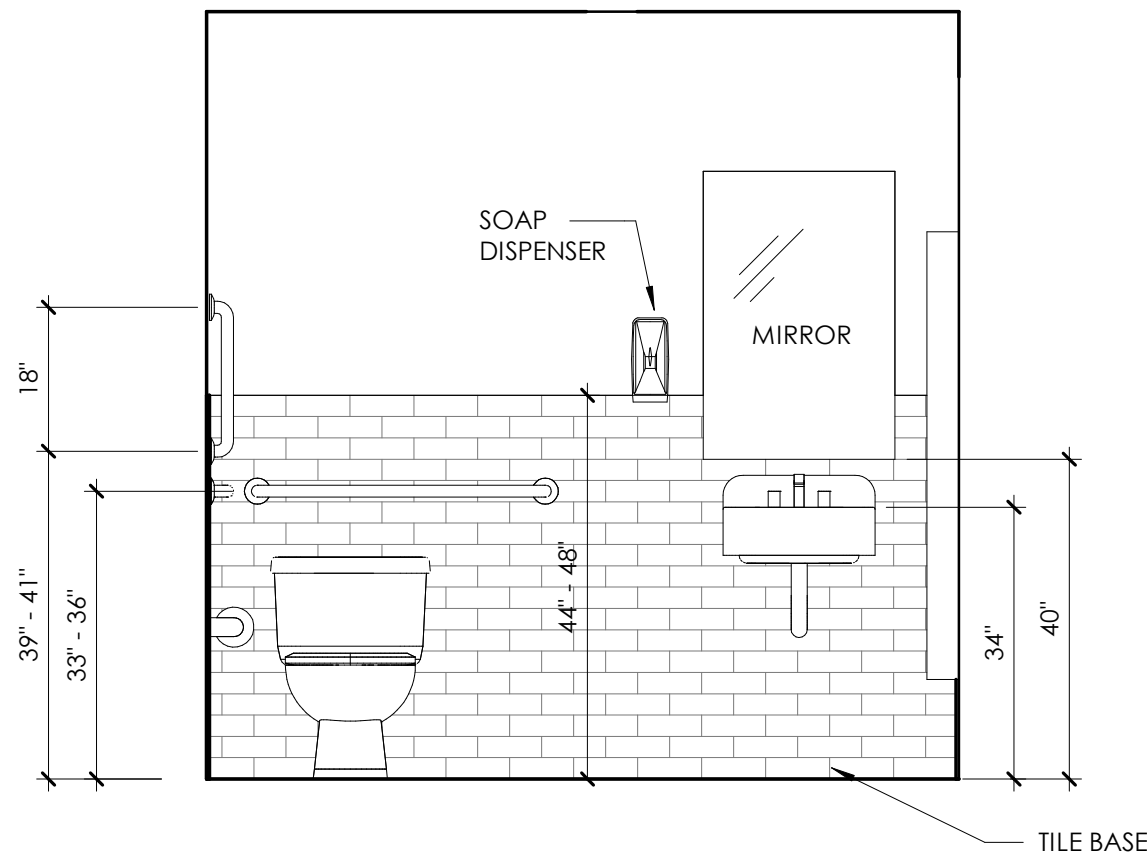
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KUA
KILTON/WELCH
DORMITORIES
Main Street,
Meriden, NH 03770
KILTON
ENLARGED UPPER
LOUNGE
DRAWINGS

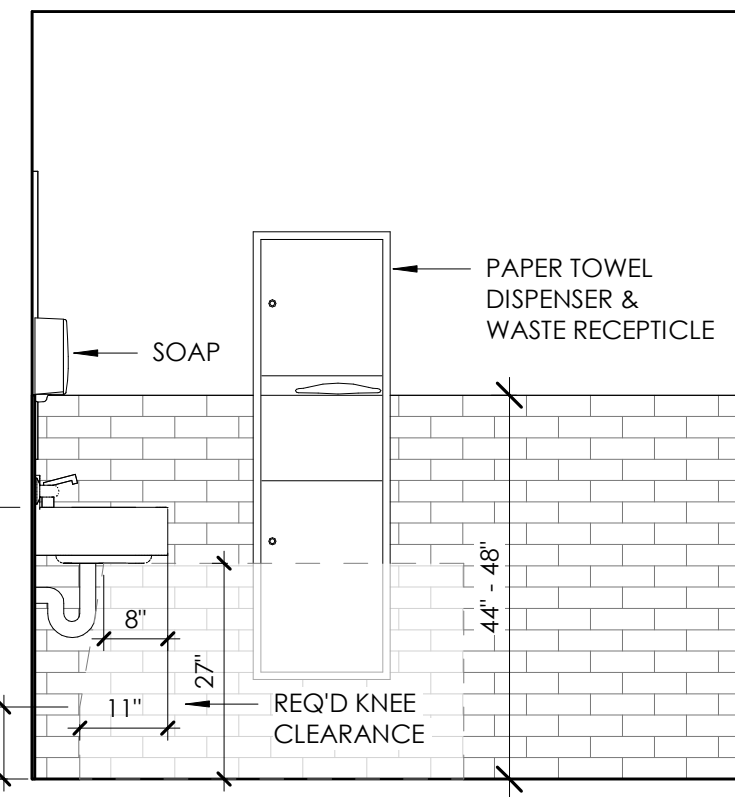
AK-7.3



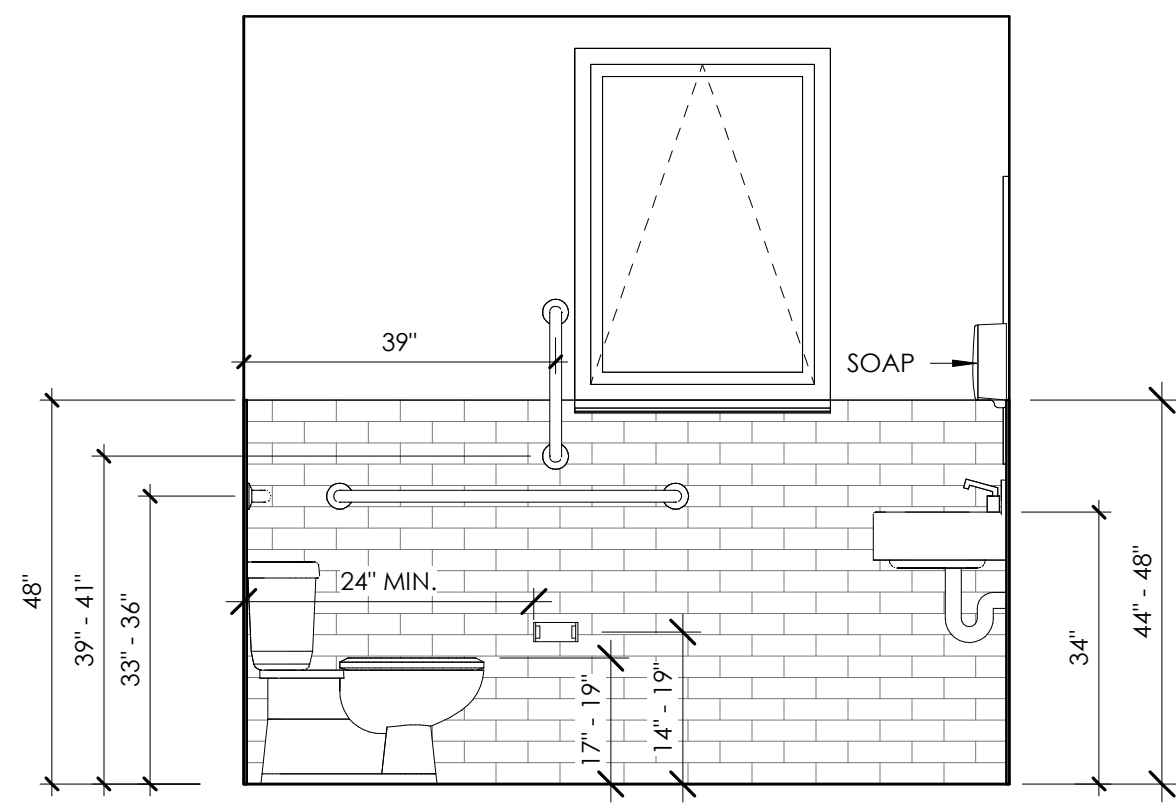
5 ADA W.C. North Wall
1/2" = 1'-0"



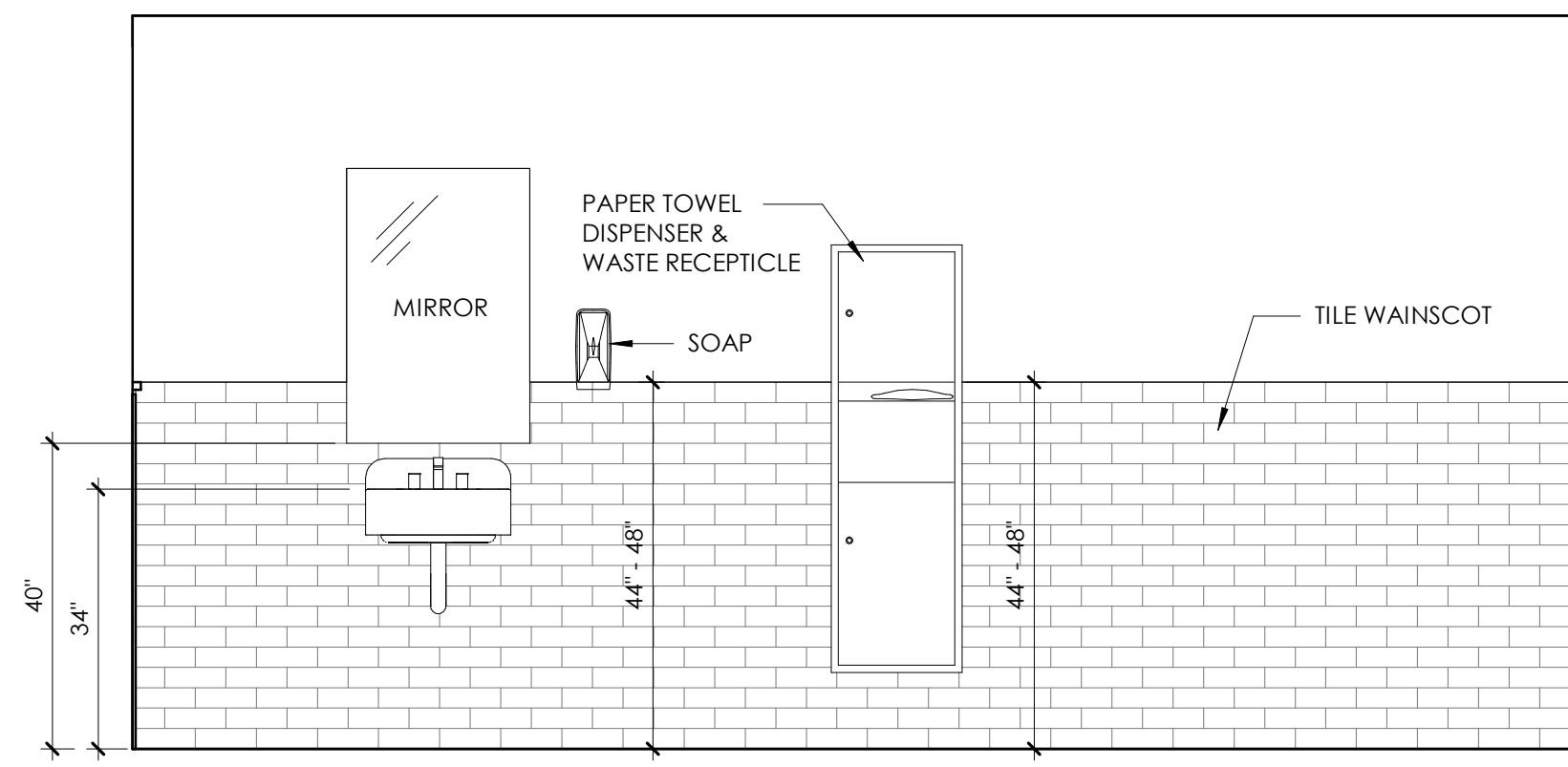
6 ADA W.C. East Wall
1/2" = 1'-0"



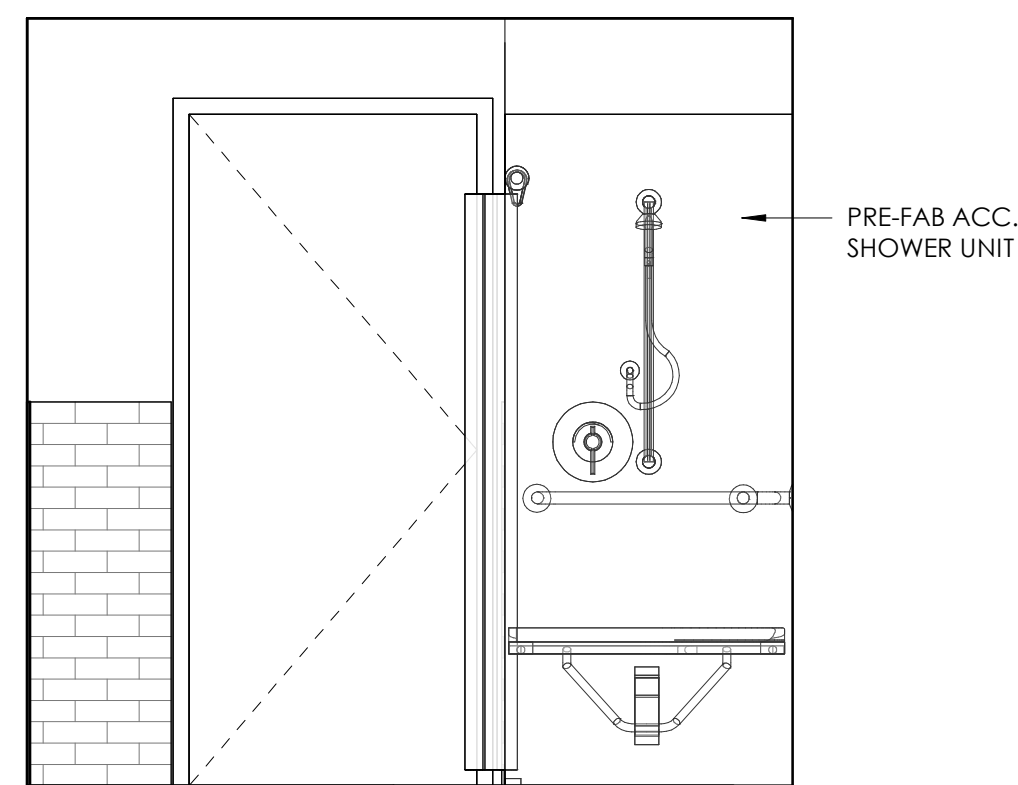
7 ADA W.C. South Wall
1/2" = 1'-0"



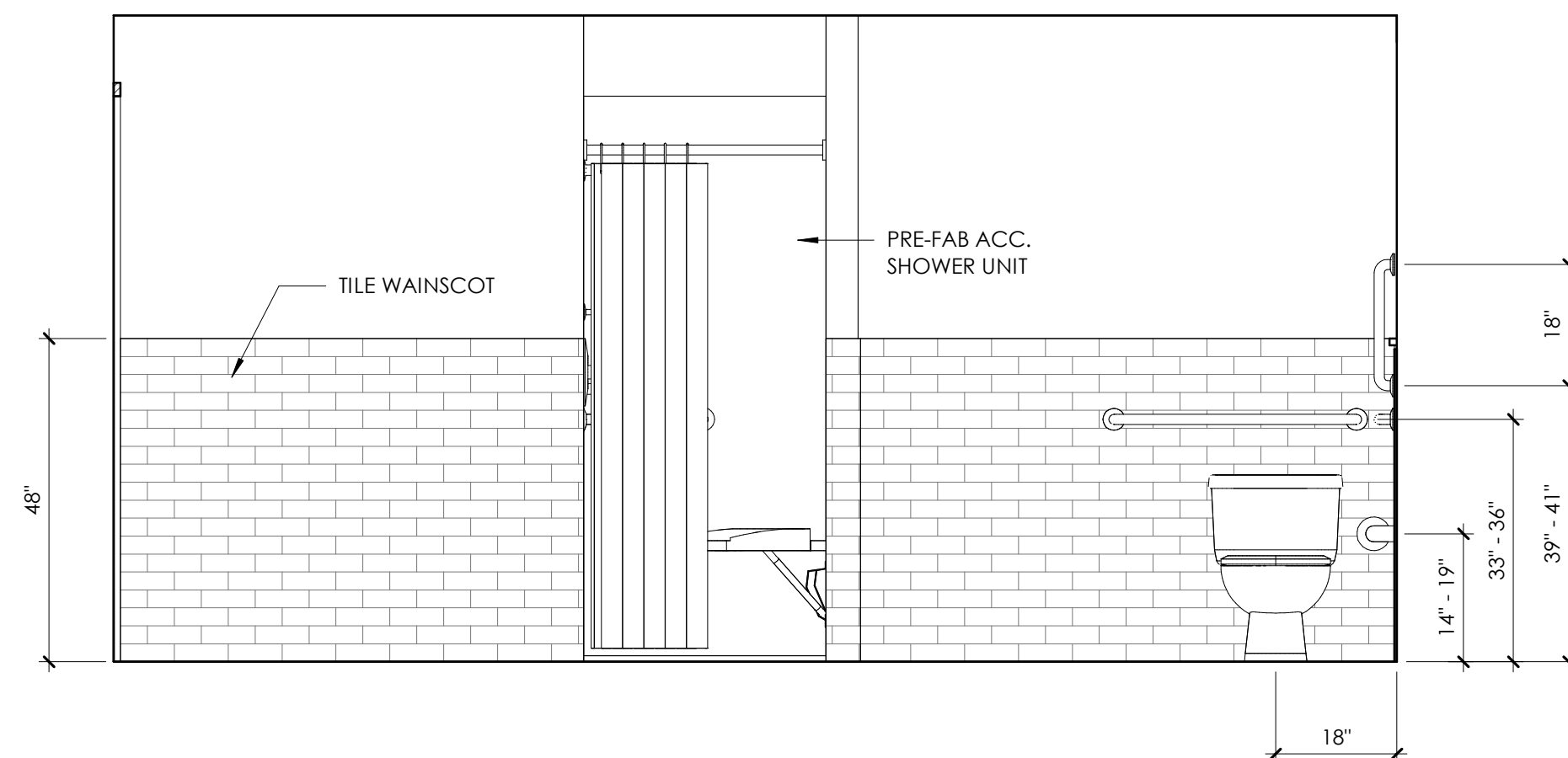
8 Bath East Elevation
1/2" = 1'-0"



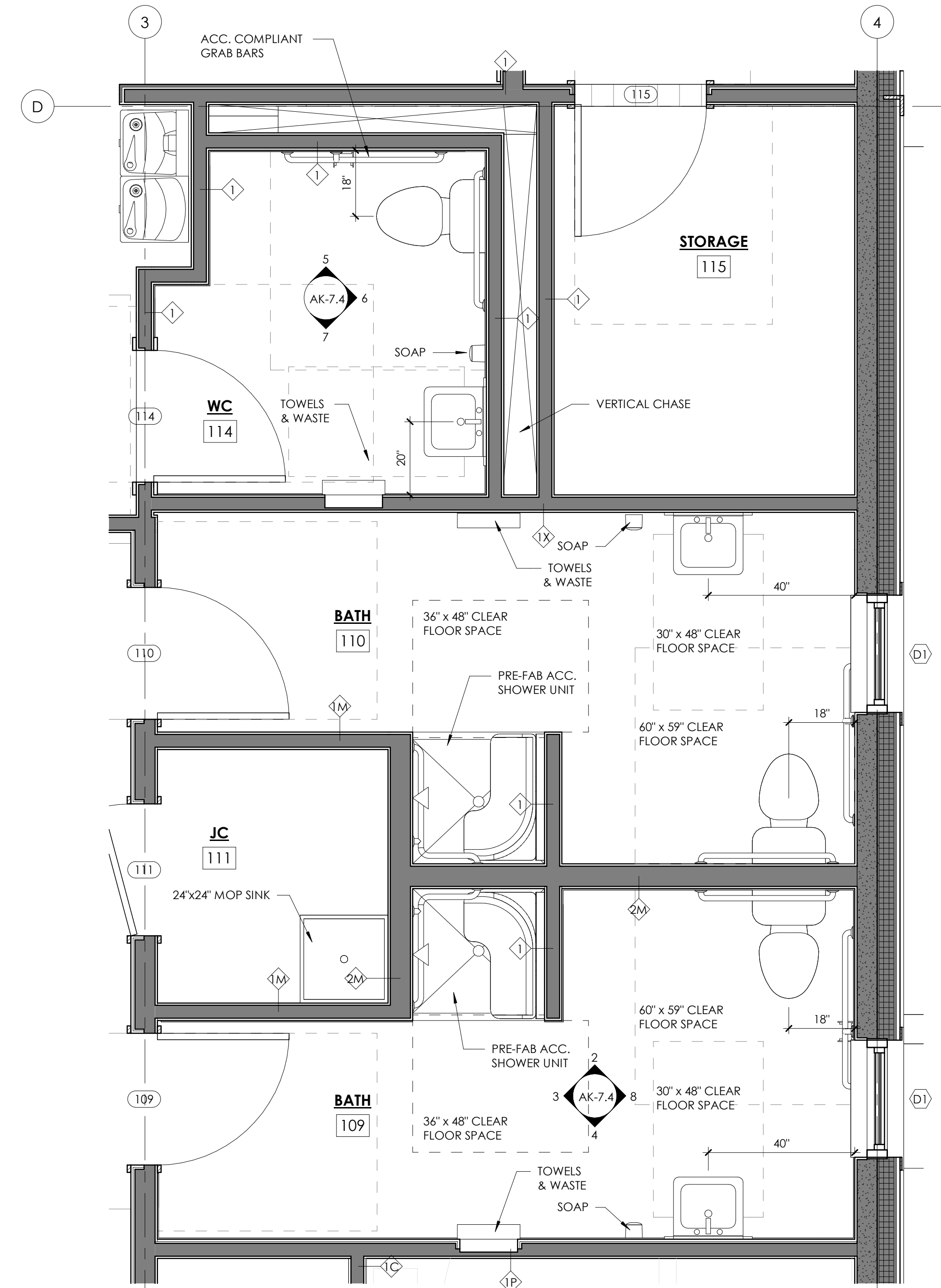
4 Bath South Elevation
1/2" = 1'-0"



3 Bath West Elevation
1/2" = 1'-0"

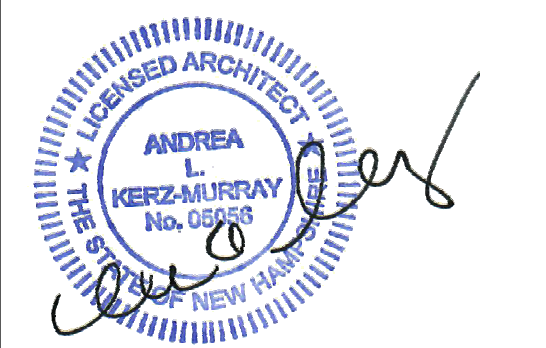


2 Bath North Elevation
1/2" = 1'-0"



1 Enlarged Bathroom Plan- First Floor
1/2" = 1'-0"

- ENLARGED DRAWING GENERAL NOTES:**
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 10. REFER TO SHEET A-0.2 FOR ACCESSIBILITY DETAILS.



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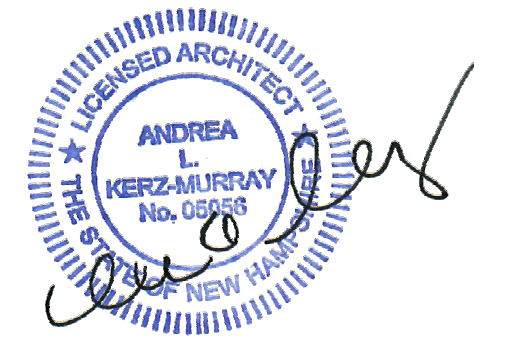
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

KILTON
ENLARGED
BATHROOM
DRAWINGS

AK-7.4



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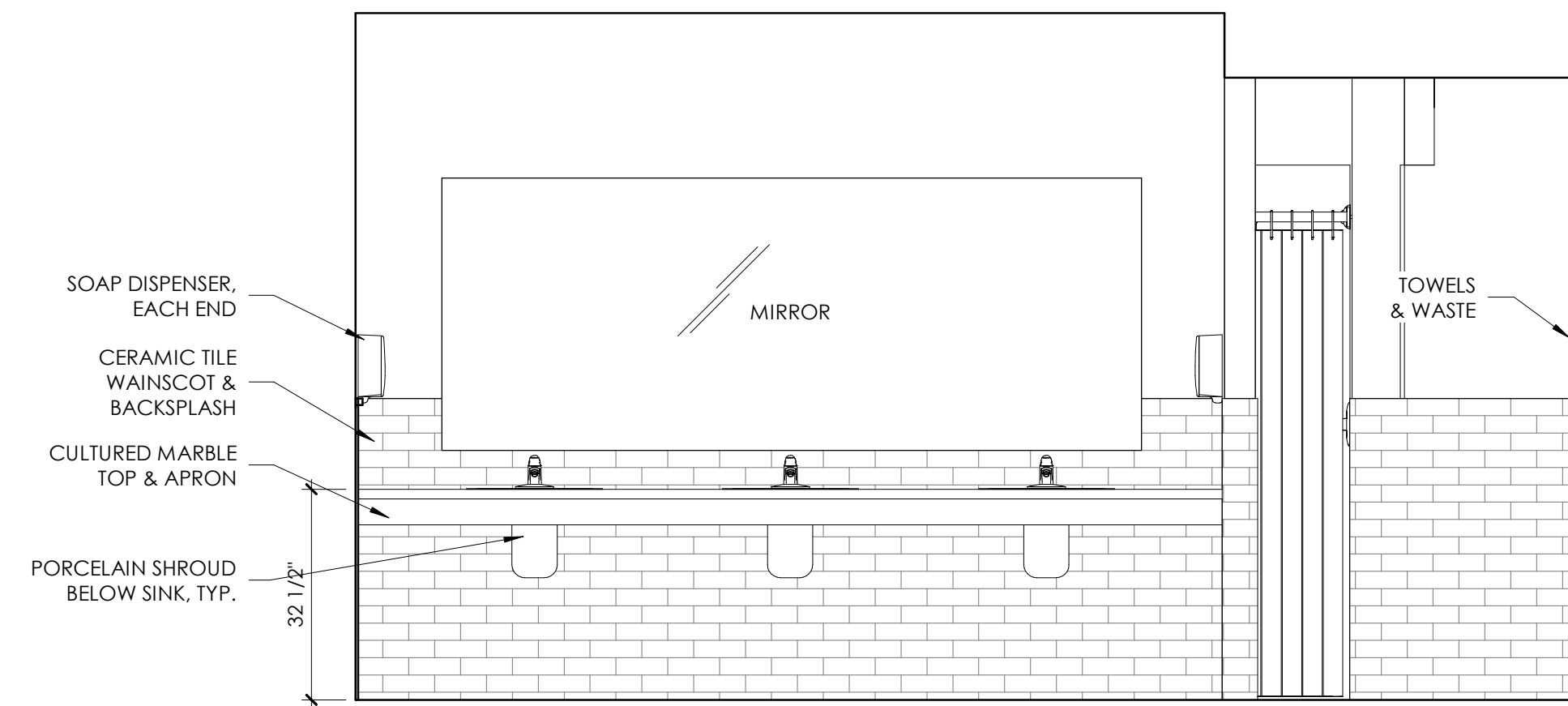
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**KUA
KILTON/WELCH
DORMITORIES**

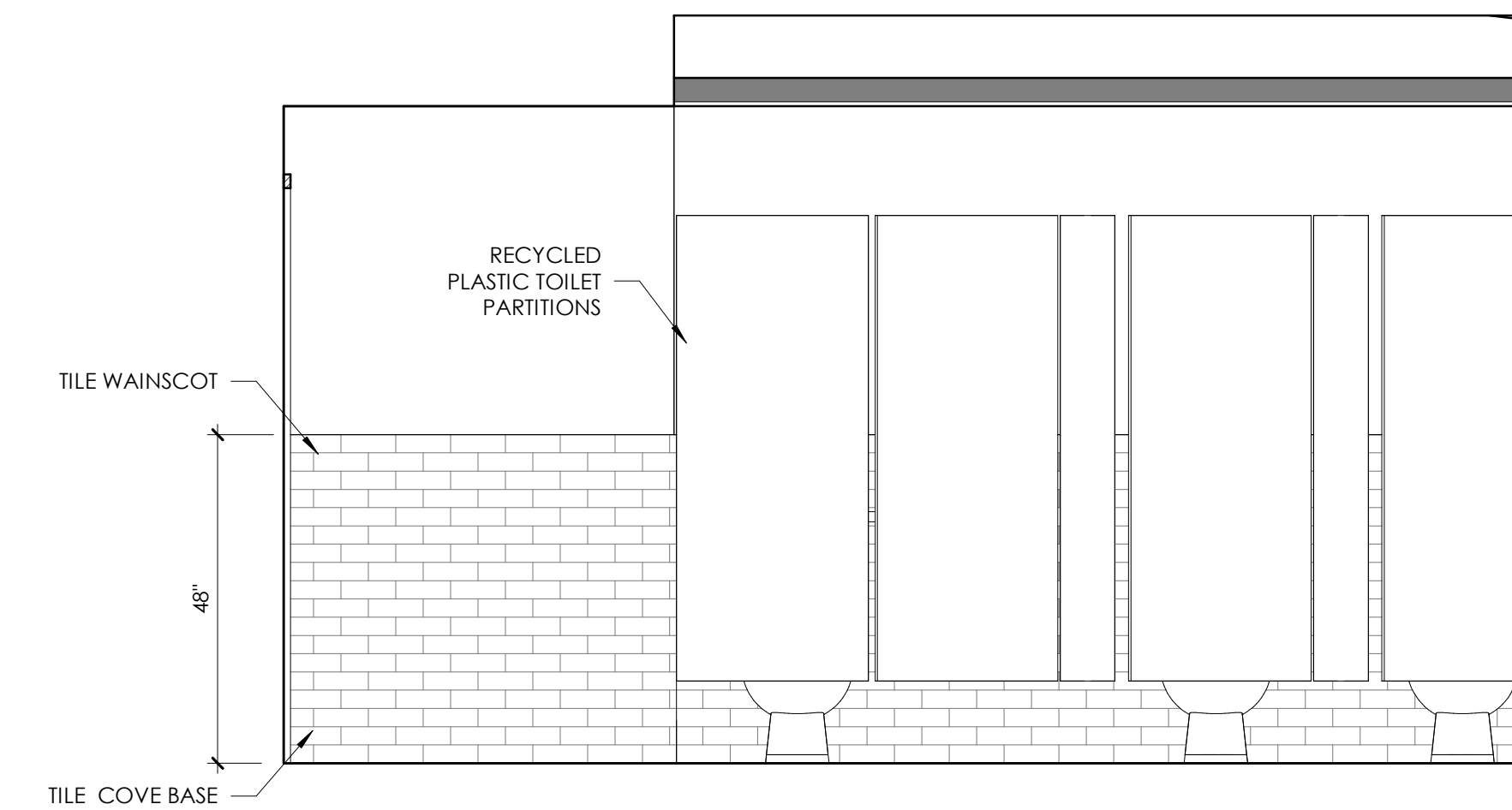
Main Street,
Meriden, NH 03770

**KILTON
ENLARGED
BATHROOM
DRAWINGS**

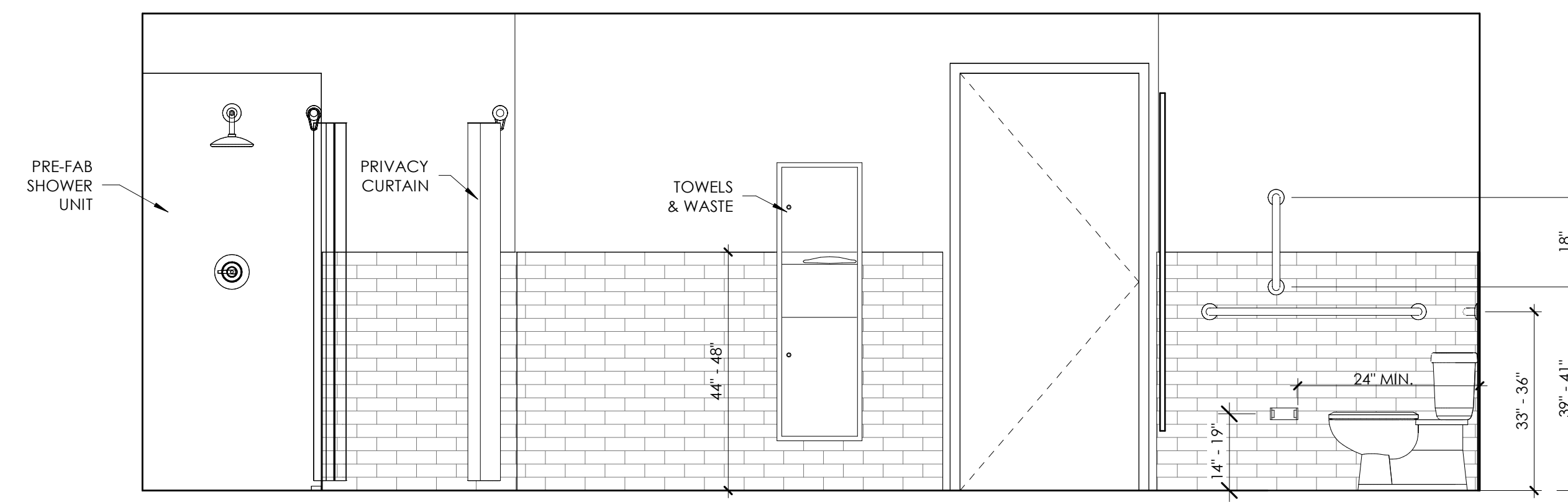
AK-7.5



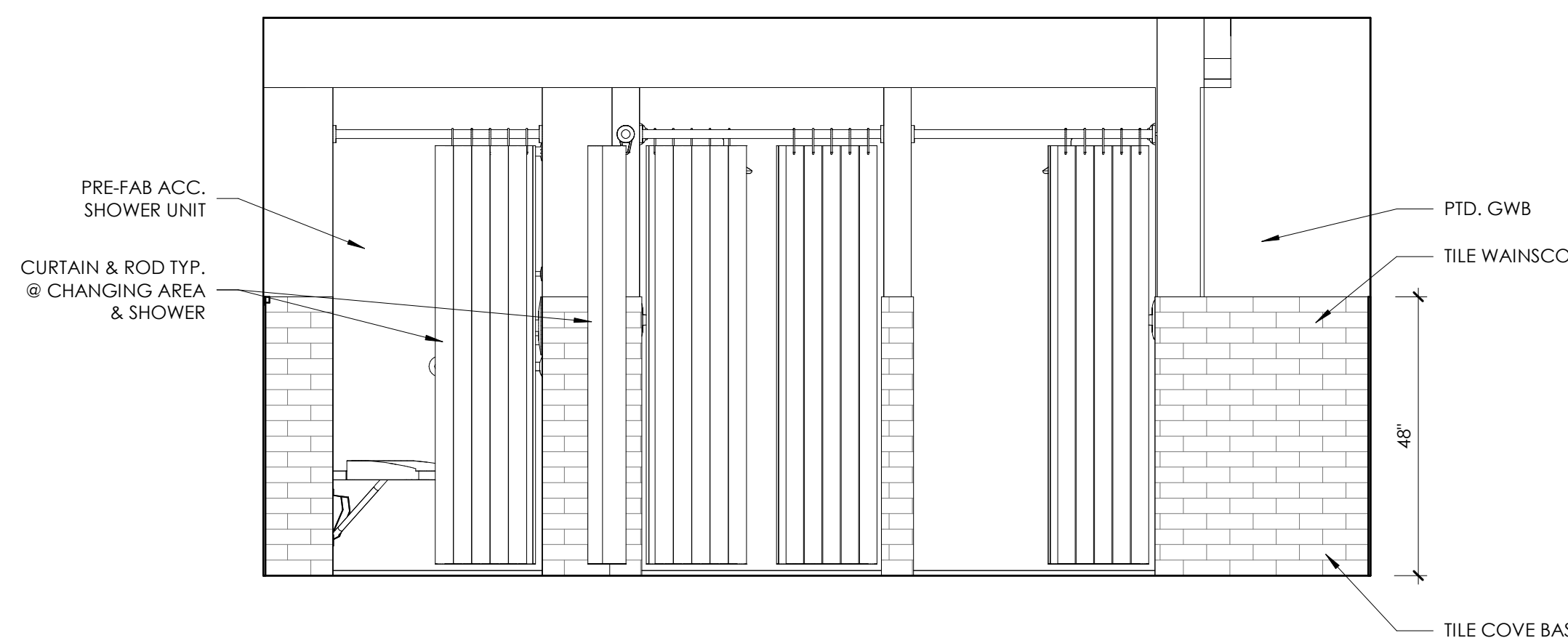
2 Common Bath Lavatory Wall
1/2" = 1'-0"



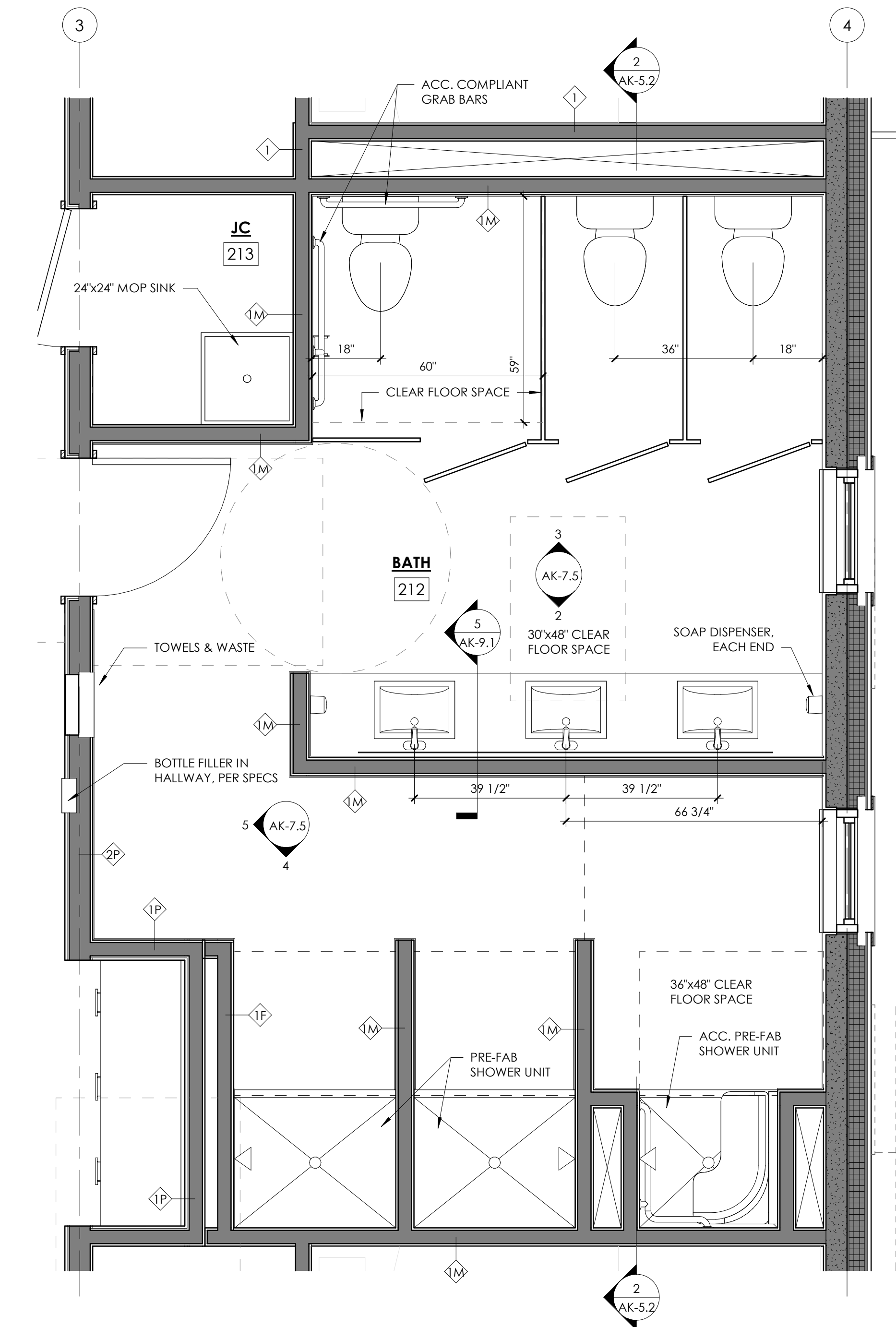
3 Common Bath North Wall
1/2" = 1'-0"



5 Common Bath West Wall
1/2" = 1'-0"



4 Common Bath Shower Wall
1/2" = 1'-0"



1 Enlarged Bathroom Plan - Second Floor
1/2" = 1'-0"

- ENLARGED DRAWING GENERAL NOTES:**
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 10. REFER TO SHEET A-0.2 FOR ACCESSIBILITY DETAILS.

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KUA KILTON/WELCH DORMITORIES

Main Street,
Meriden, NH 03770

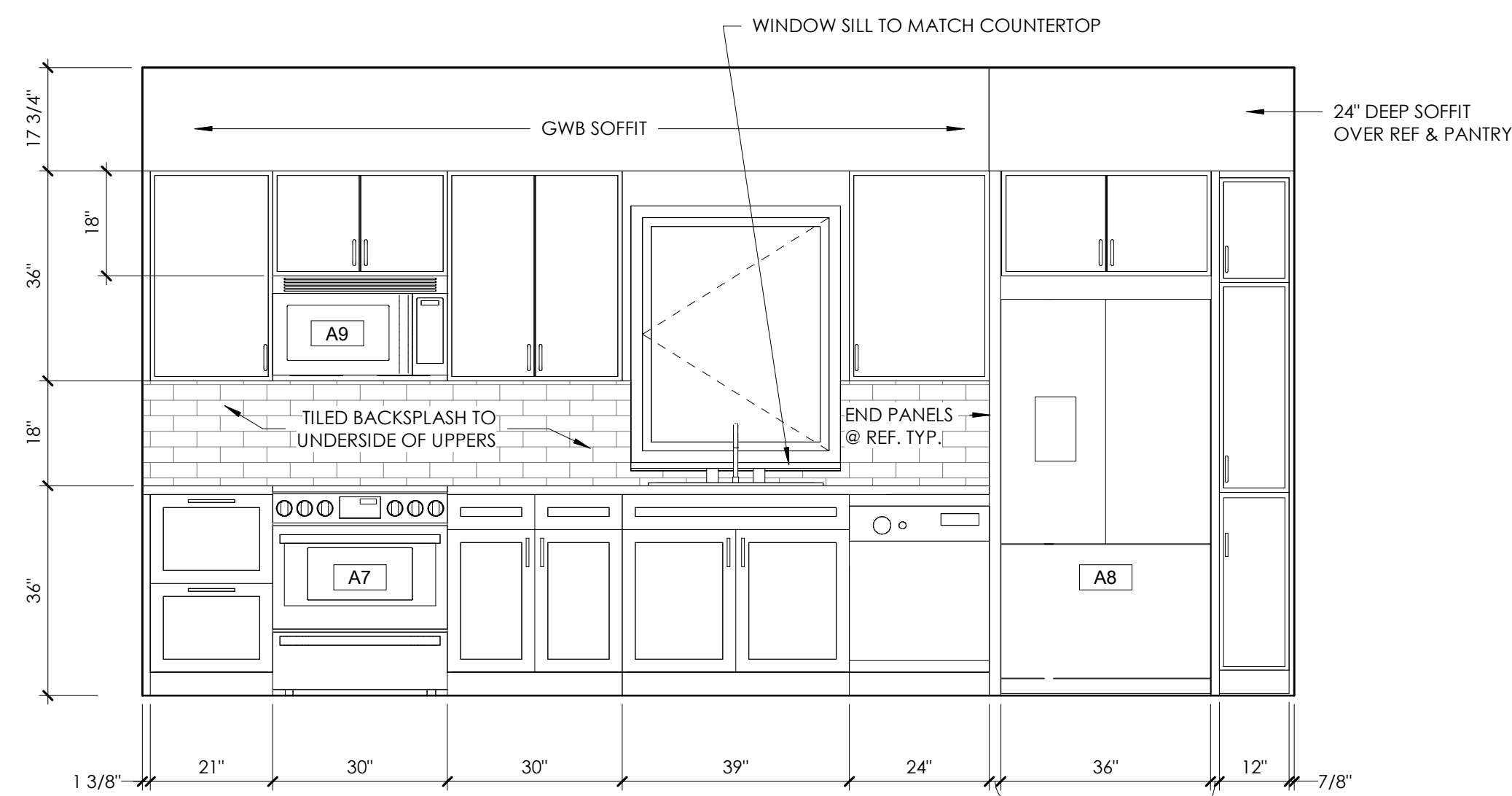
KILTON FACULTY RES. A ENLARGED PLANS & ELEVATIONS

AK-7.6

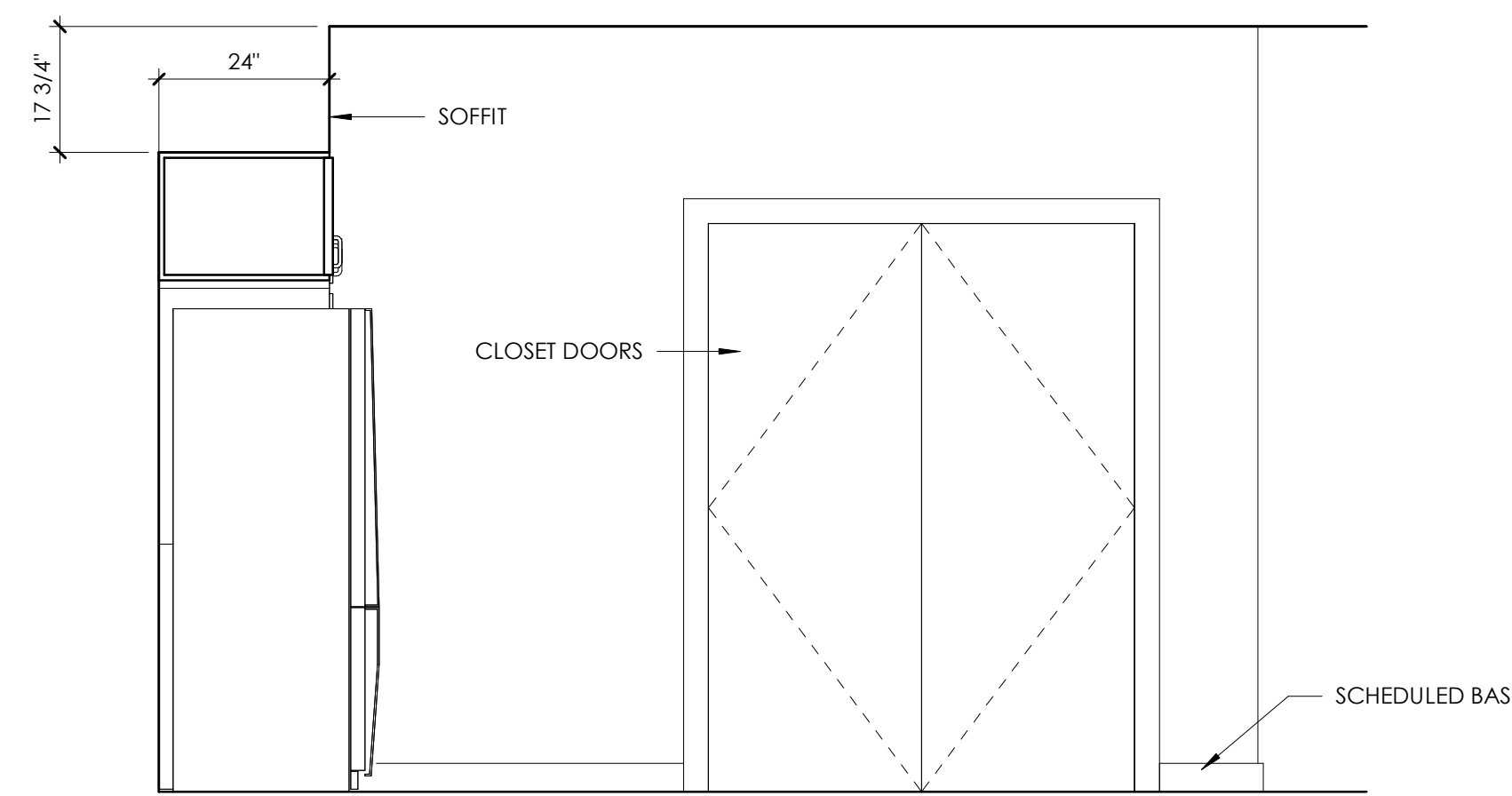
ENLARGED DRAWING GENERAL NOTES:

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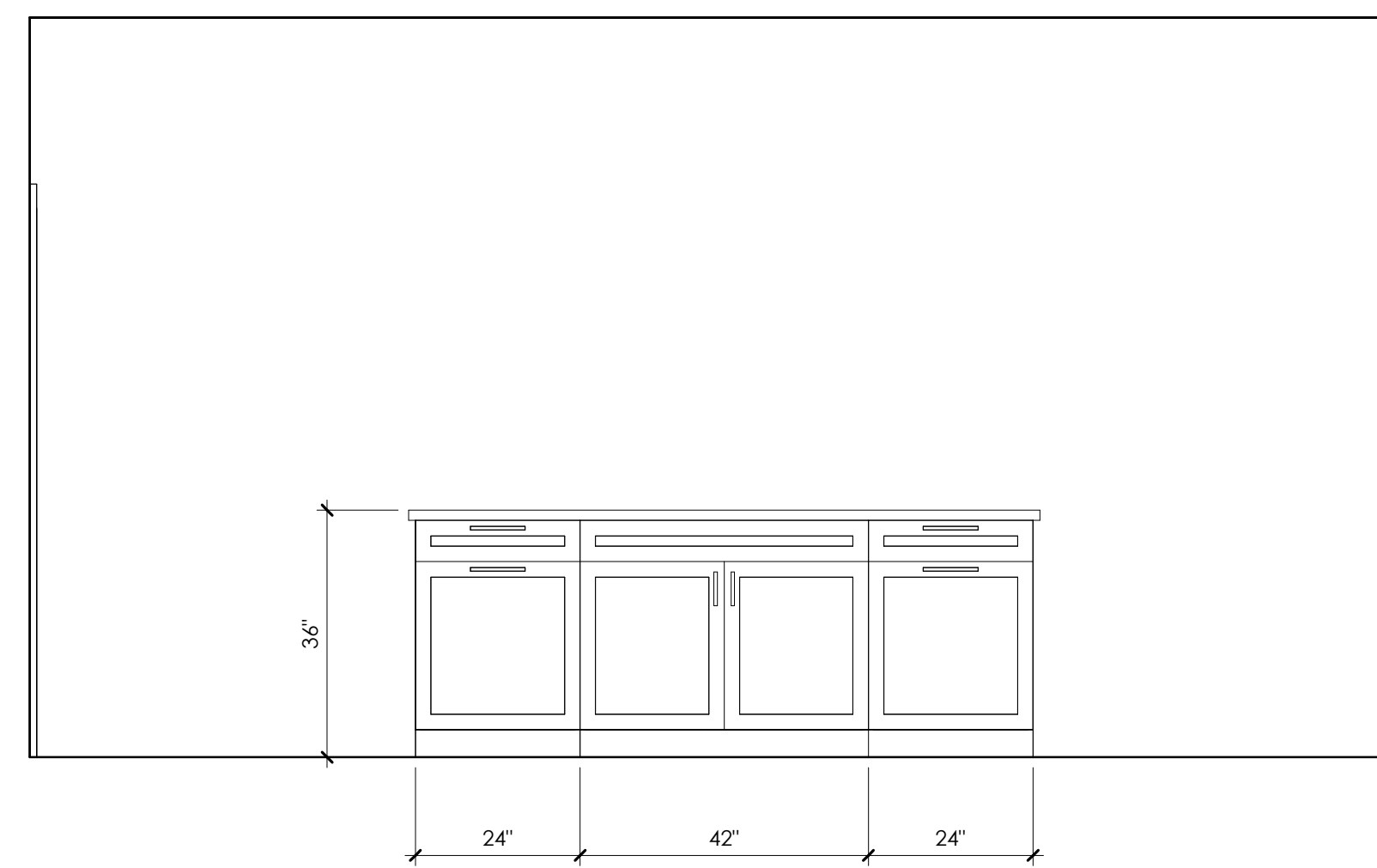
APPLIANCE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
A6	Standard Dishwasher	FRIGIDAIRE	FDSH4501AS	
A7	Standard Induction Range	FRIGIDAIRE	GCR3058AF	
A8	Refrigerator with Ice + Water	FRIGIDAIRE	FRFC2323AS	PROVIDE WATER LINE TO REF.
A9	Microwave over the Range	FRIGIDAIRE	FFMV1845VS	PROVIDE FOR EXHAUST



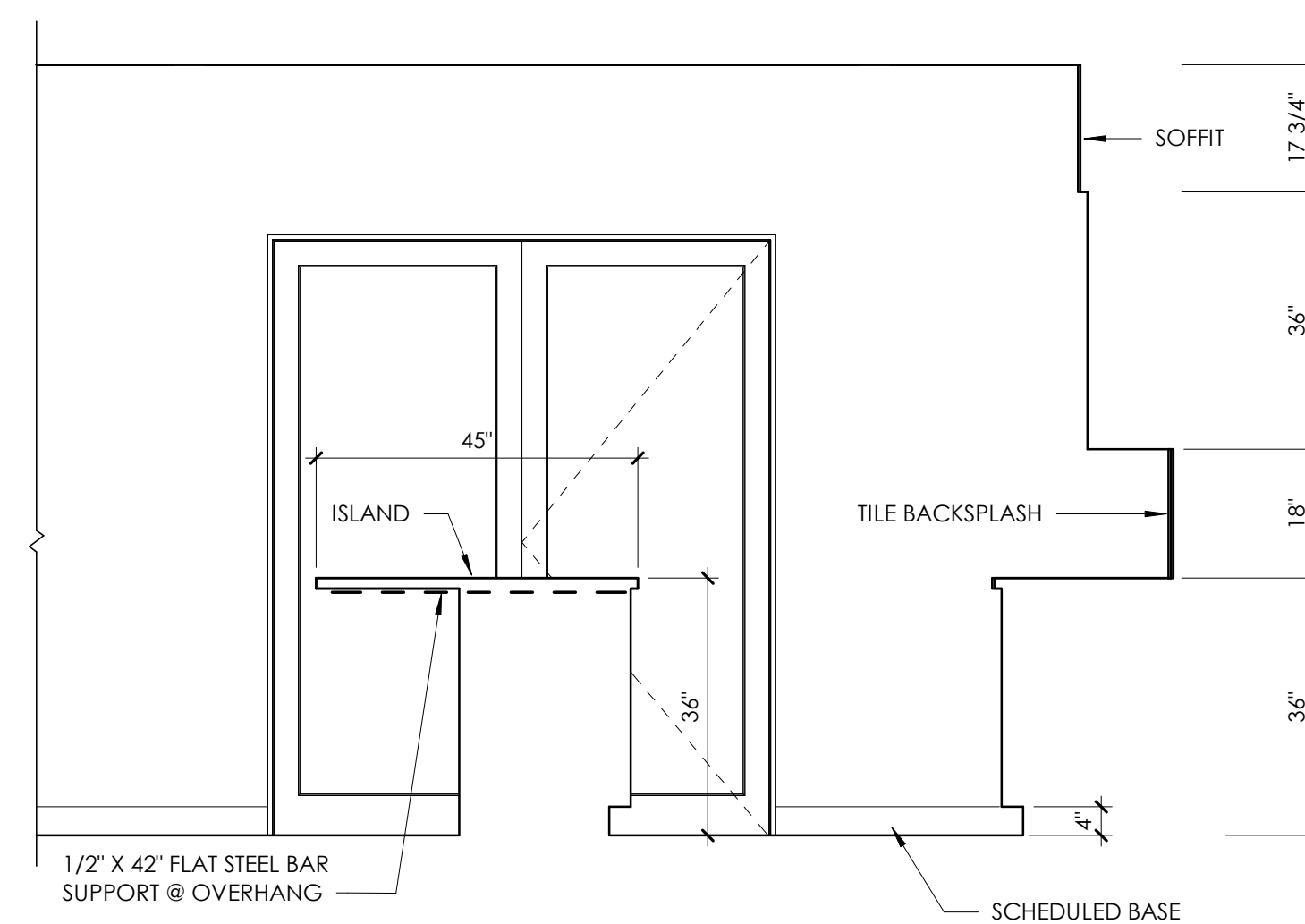
1a F.R. Kitchen West Wall Elevation
1/2" = 1'-0"



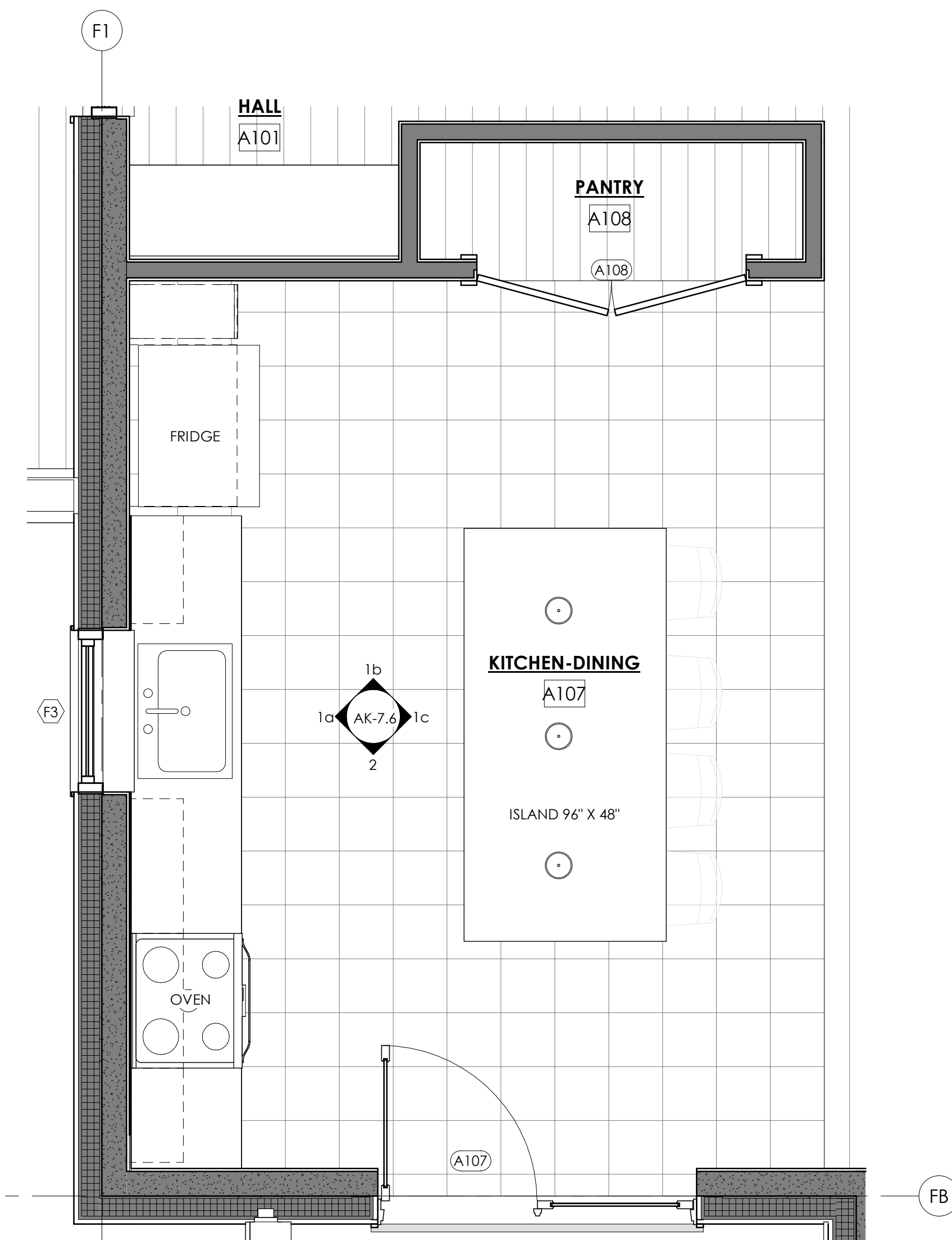
1b F.R. Kitchen North Wall Elevation
1/2" = 1'-0"



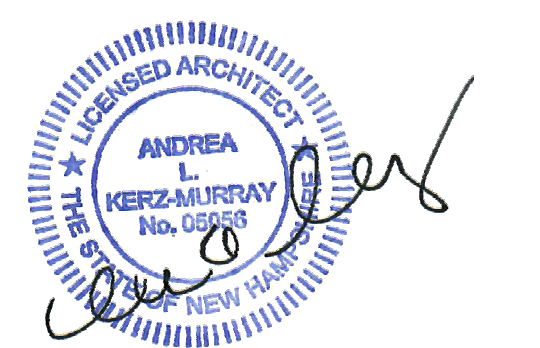
1c F.R. Kitchen East Wall Elevation
1/2" = 1'-0"



2 F.R. Kitchen South Wall Elevation
1/2" = 1'-0"



1 Faculty Residence A - Kitchen
1/2" = 1'-0"



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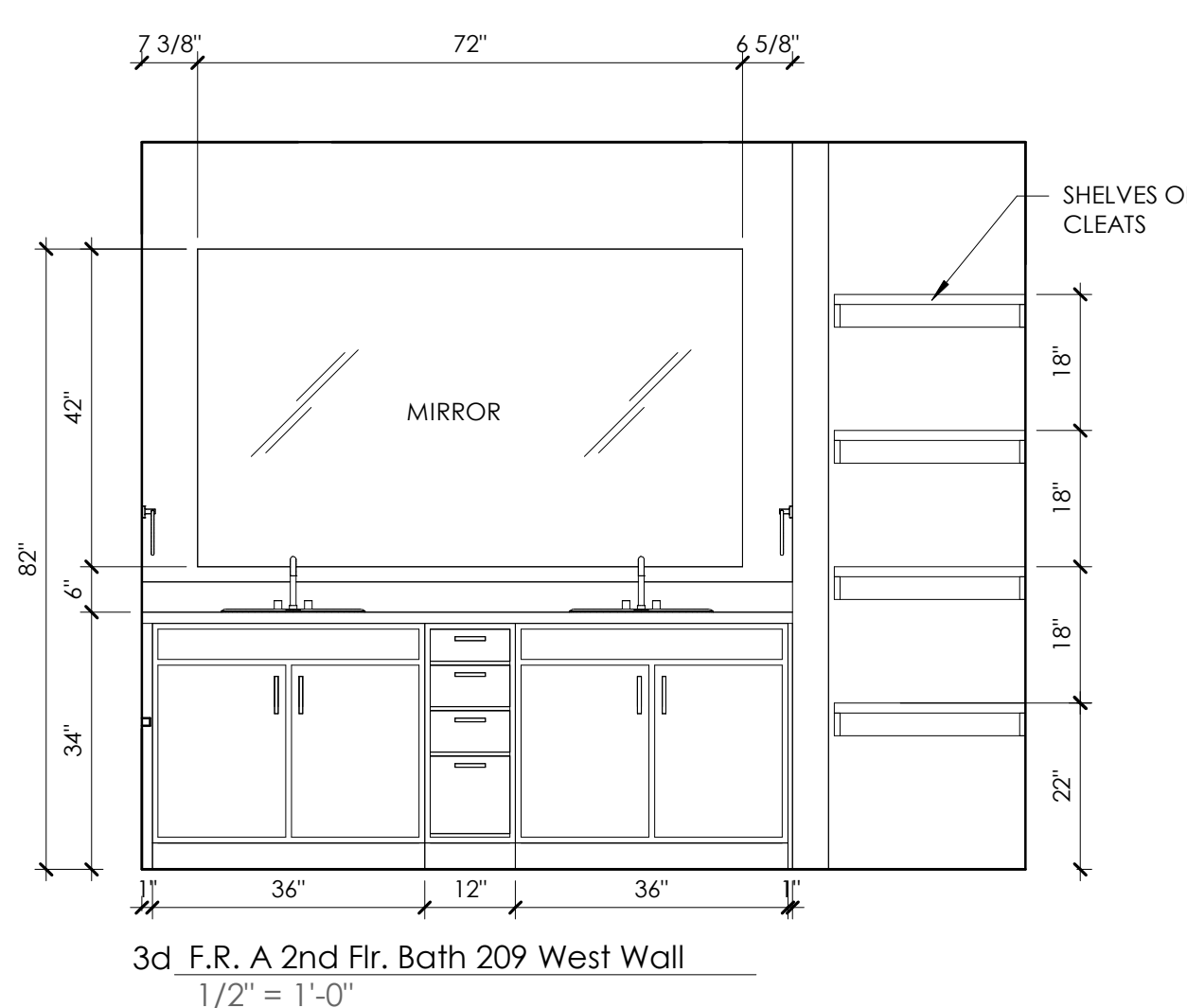
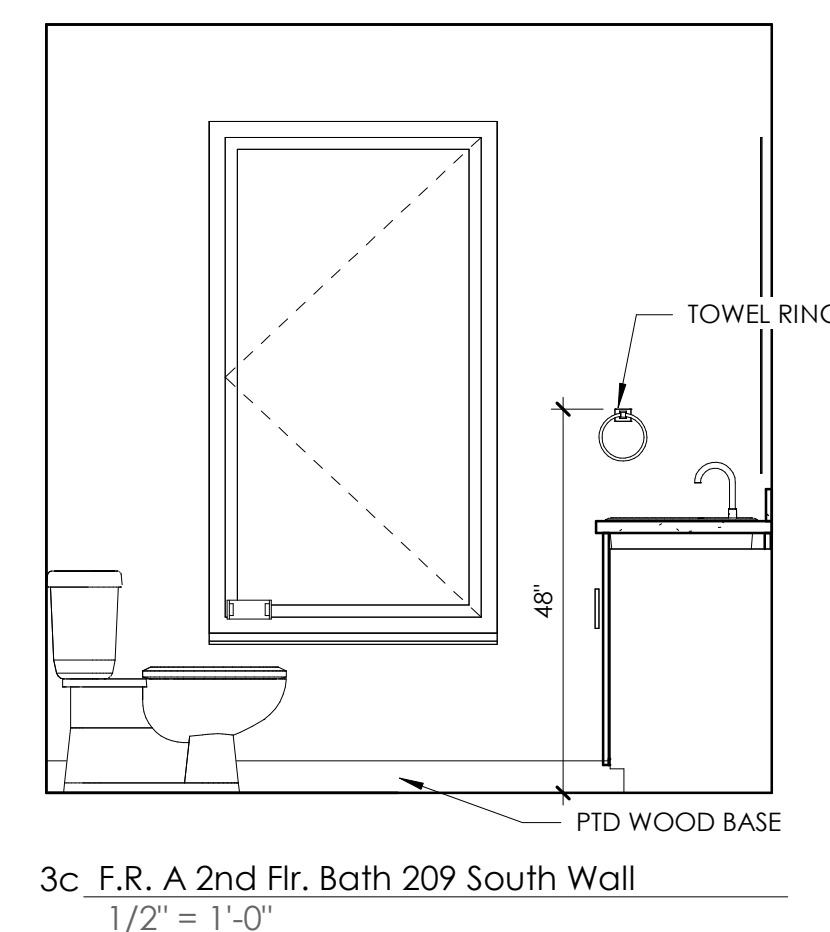
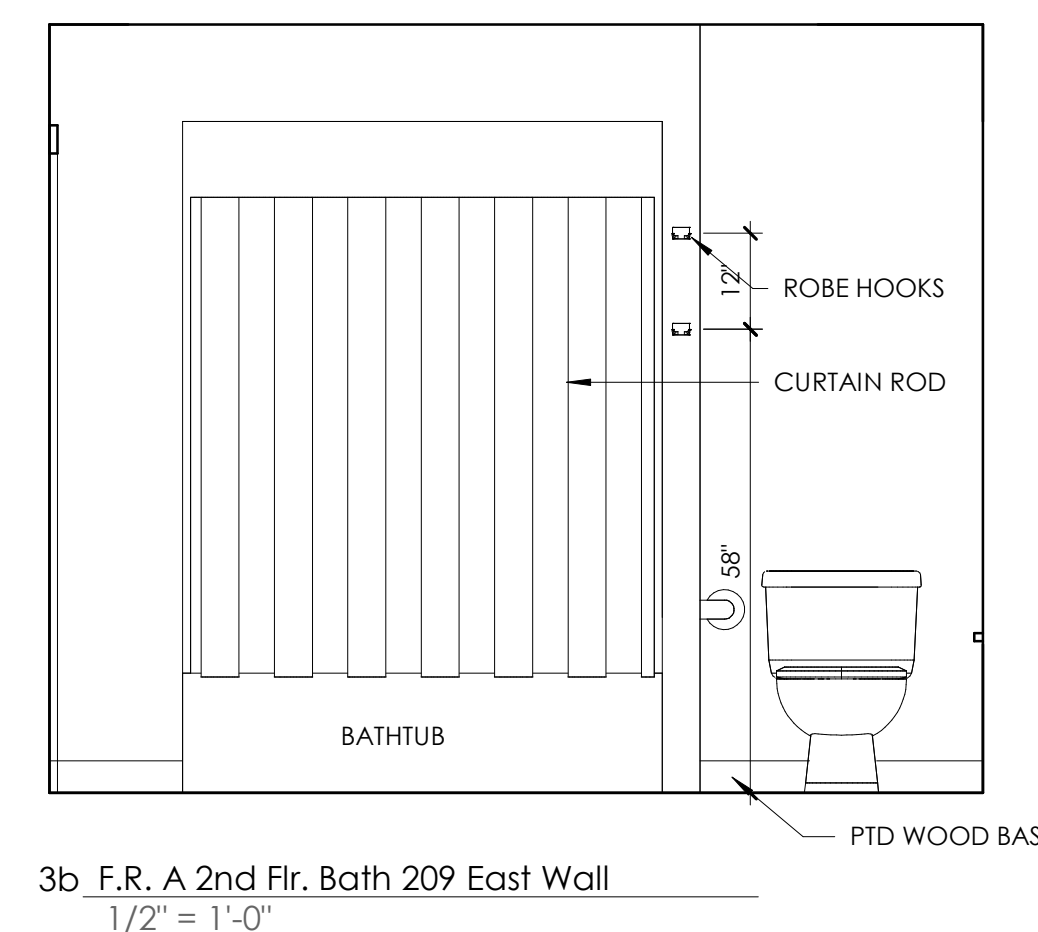
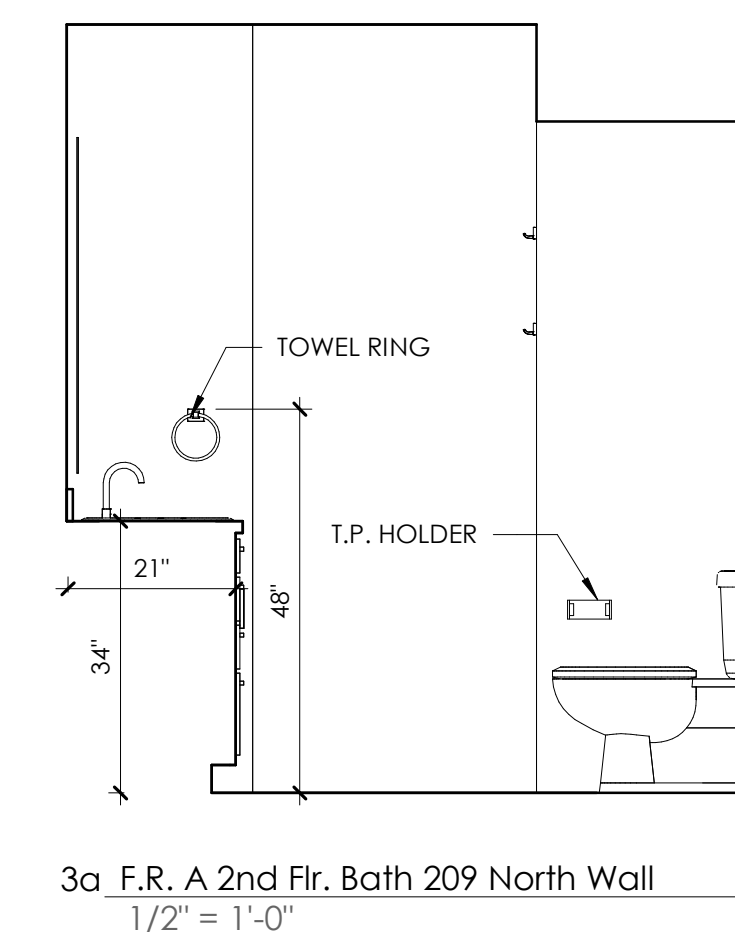
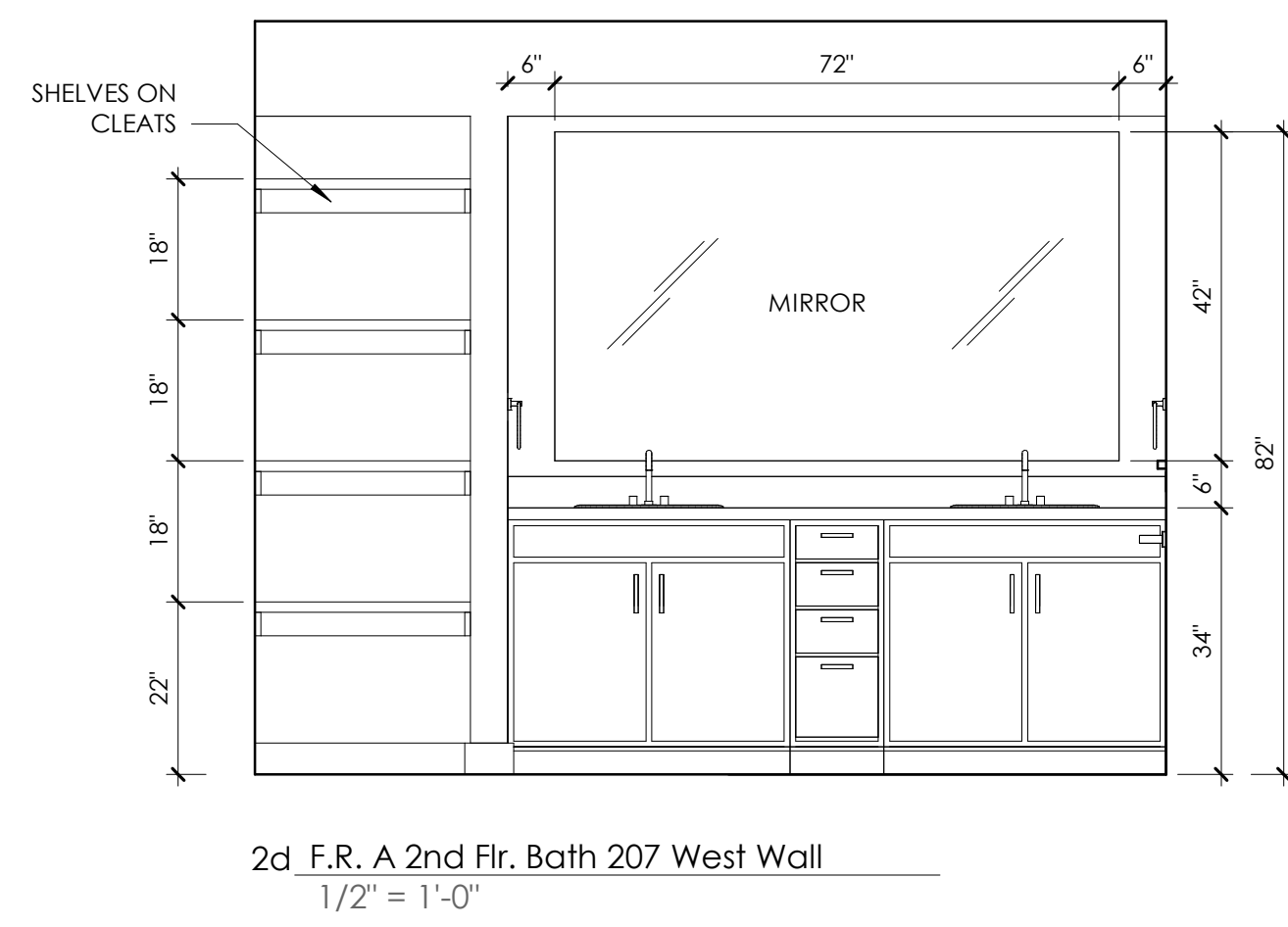
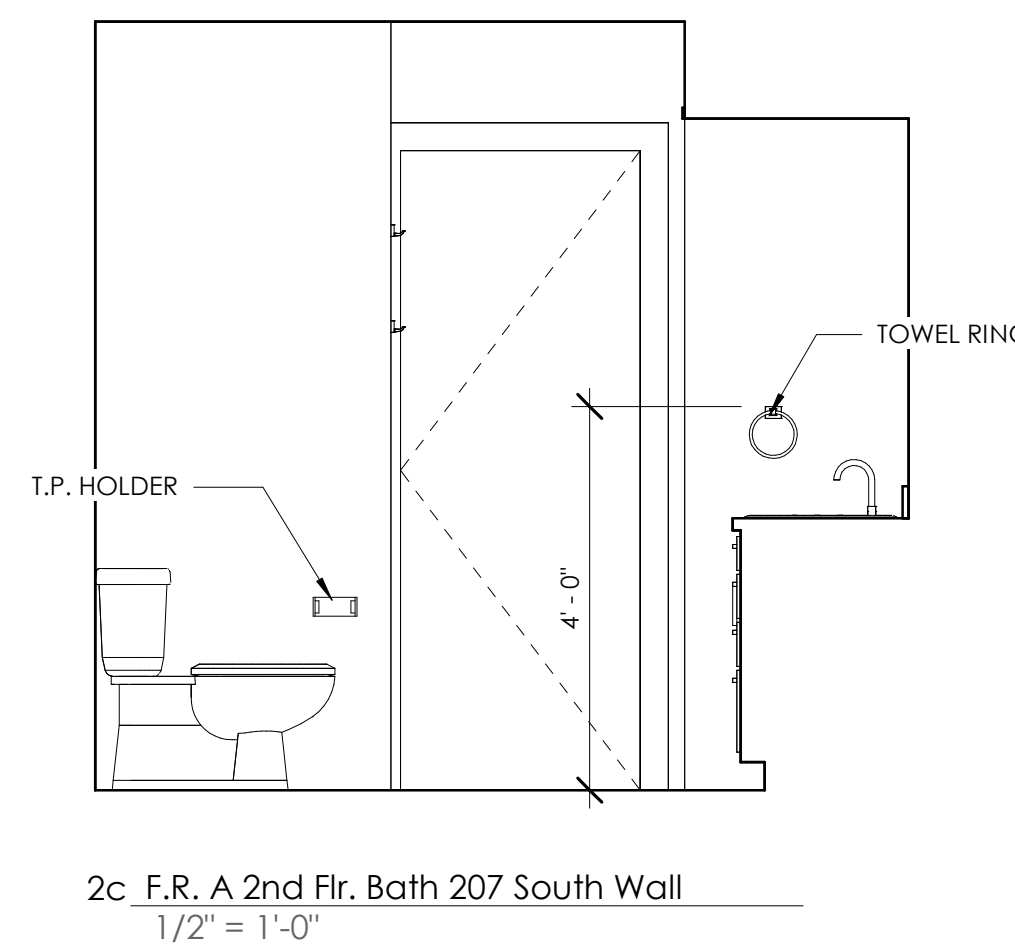
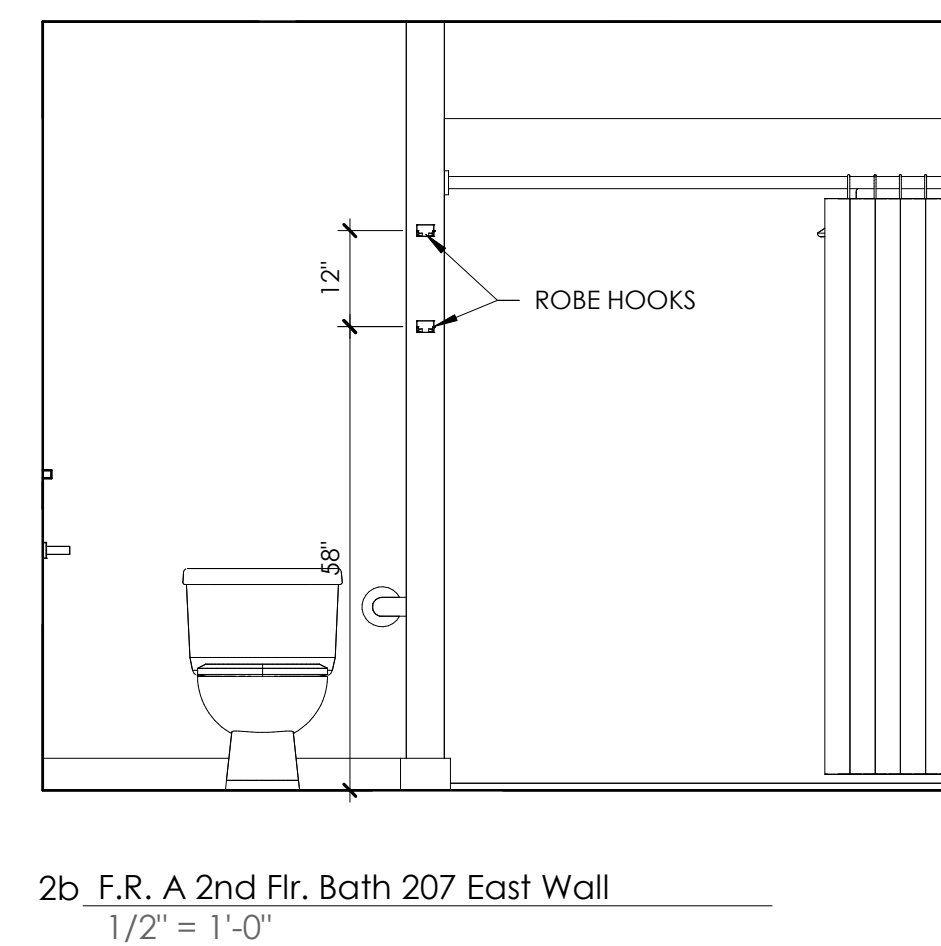
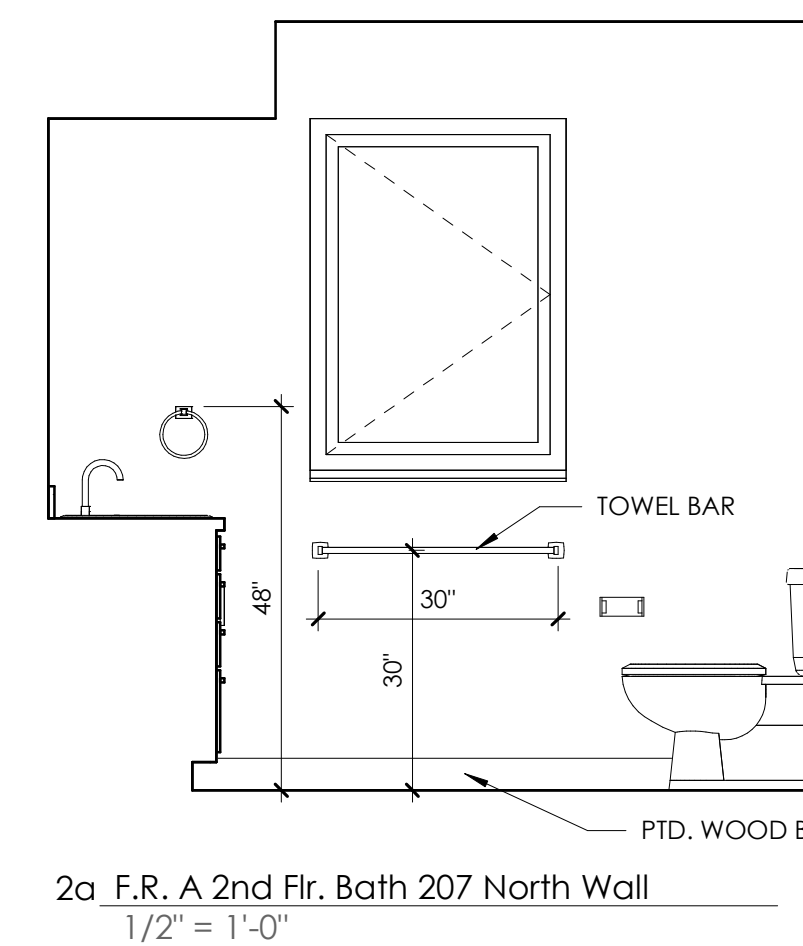
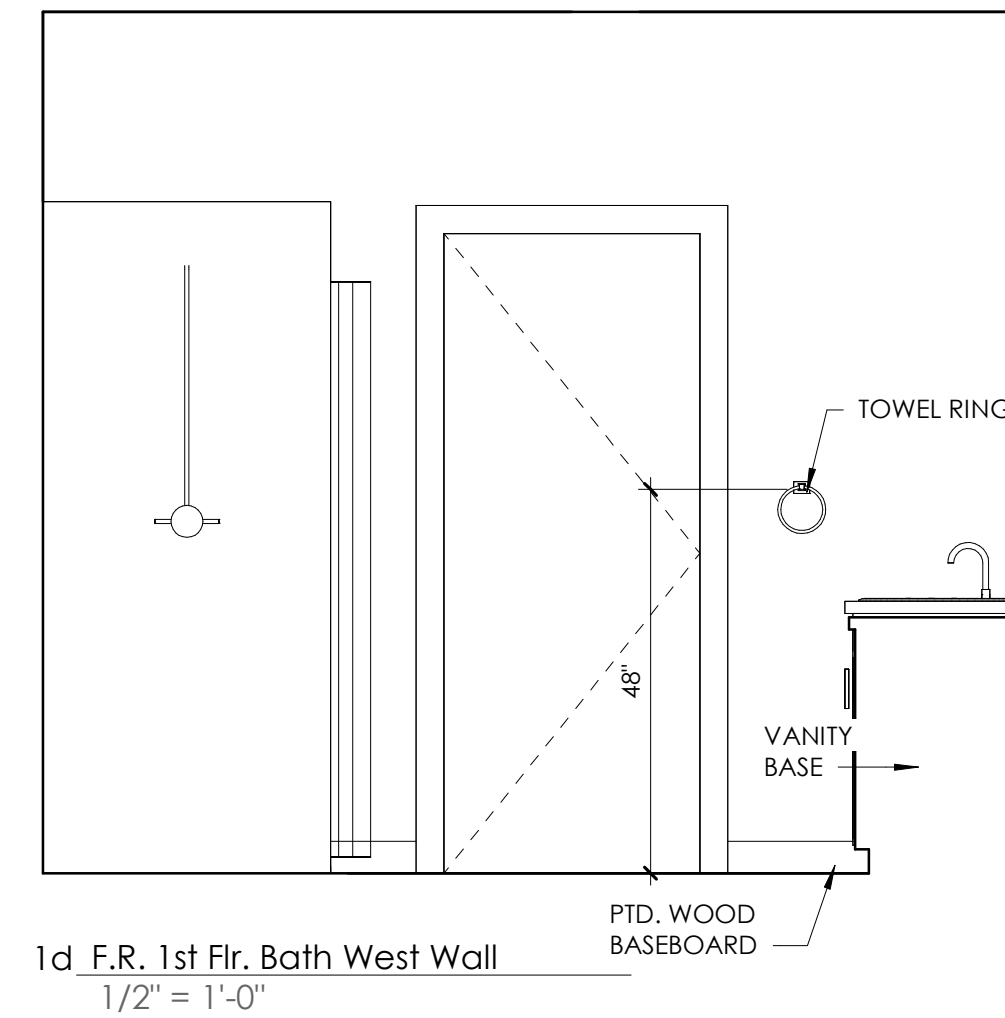
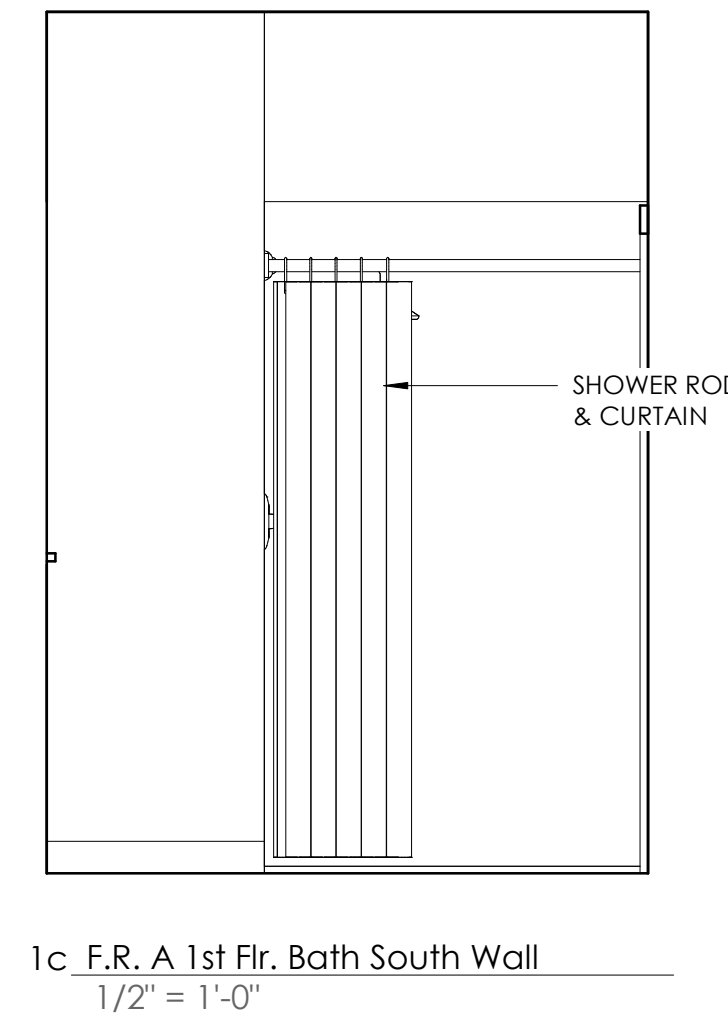
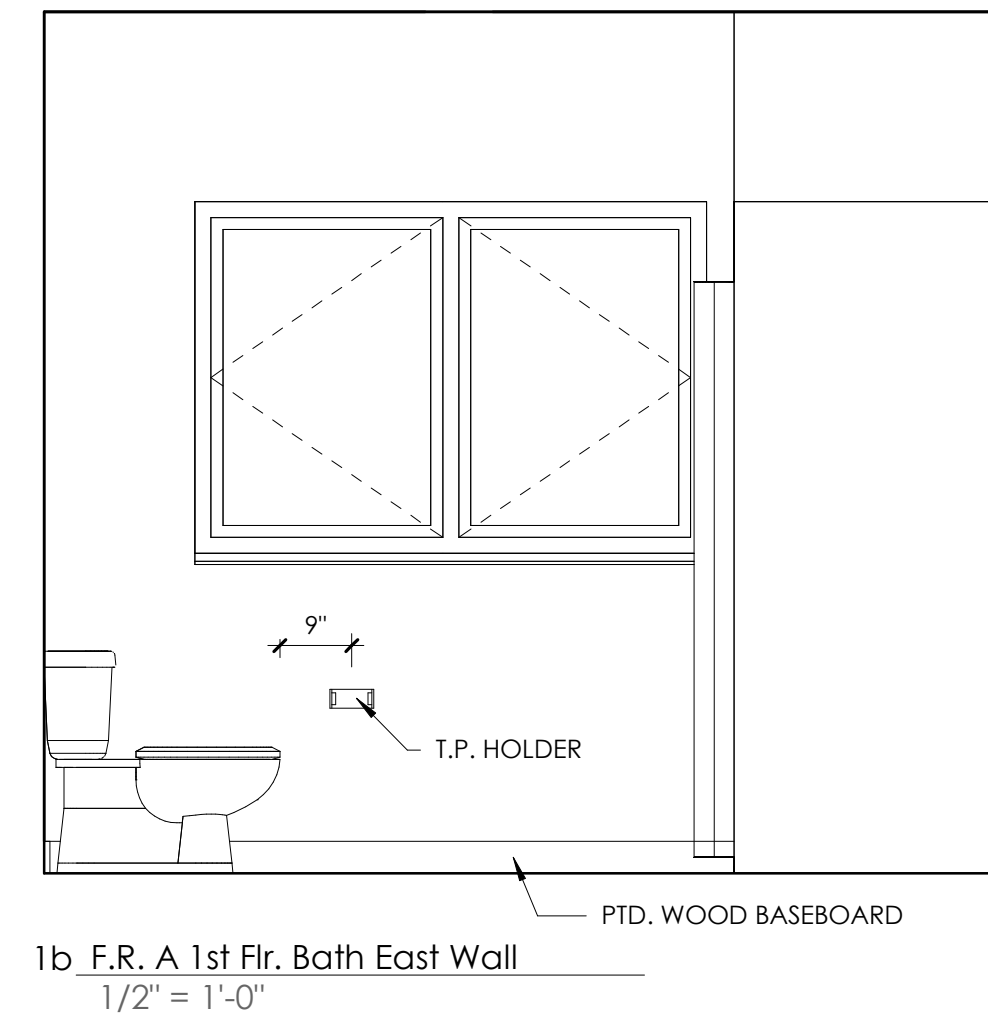
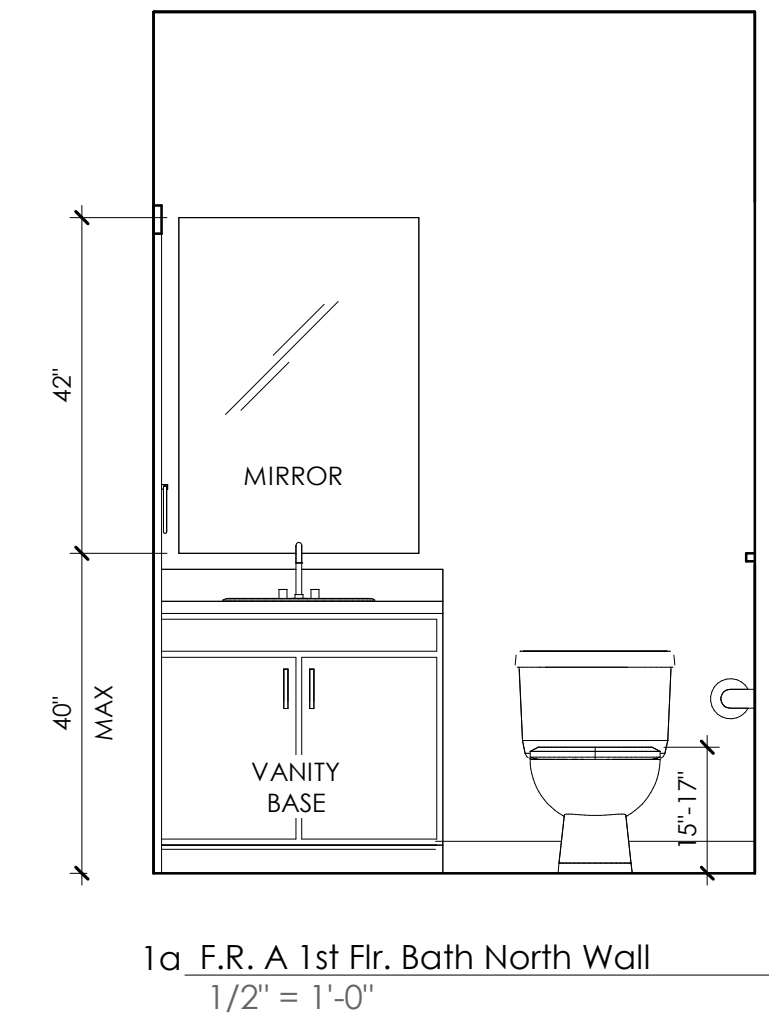
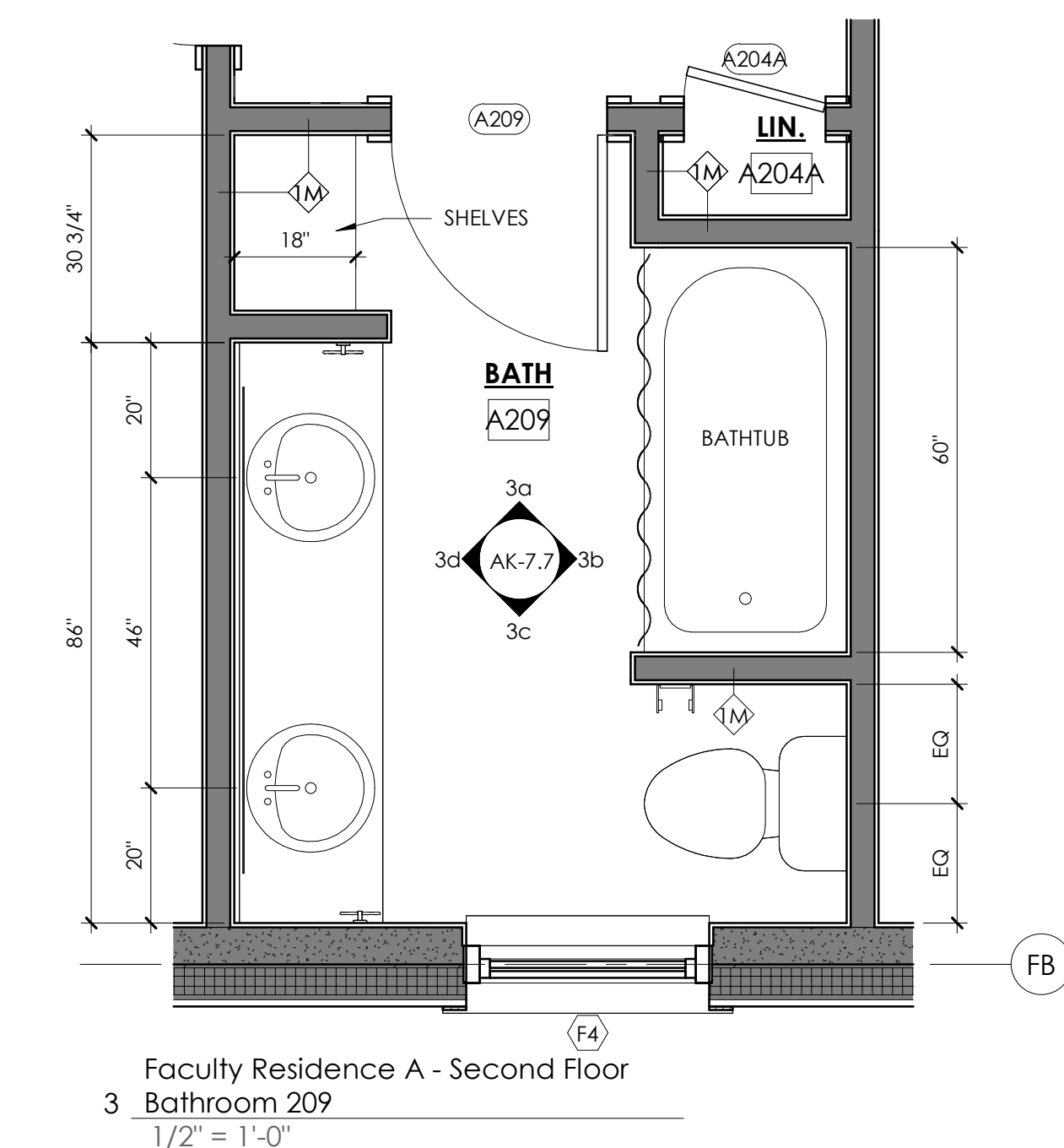
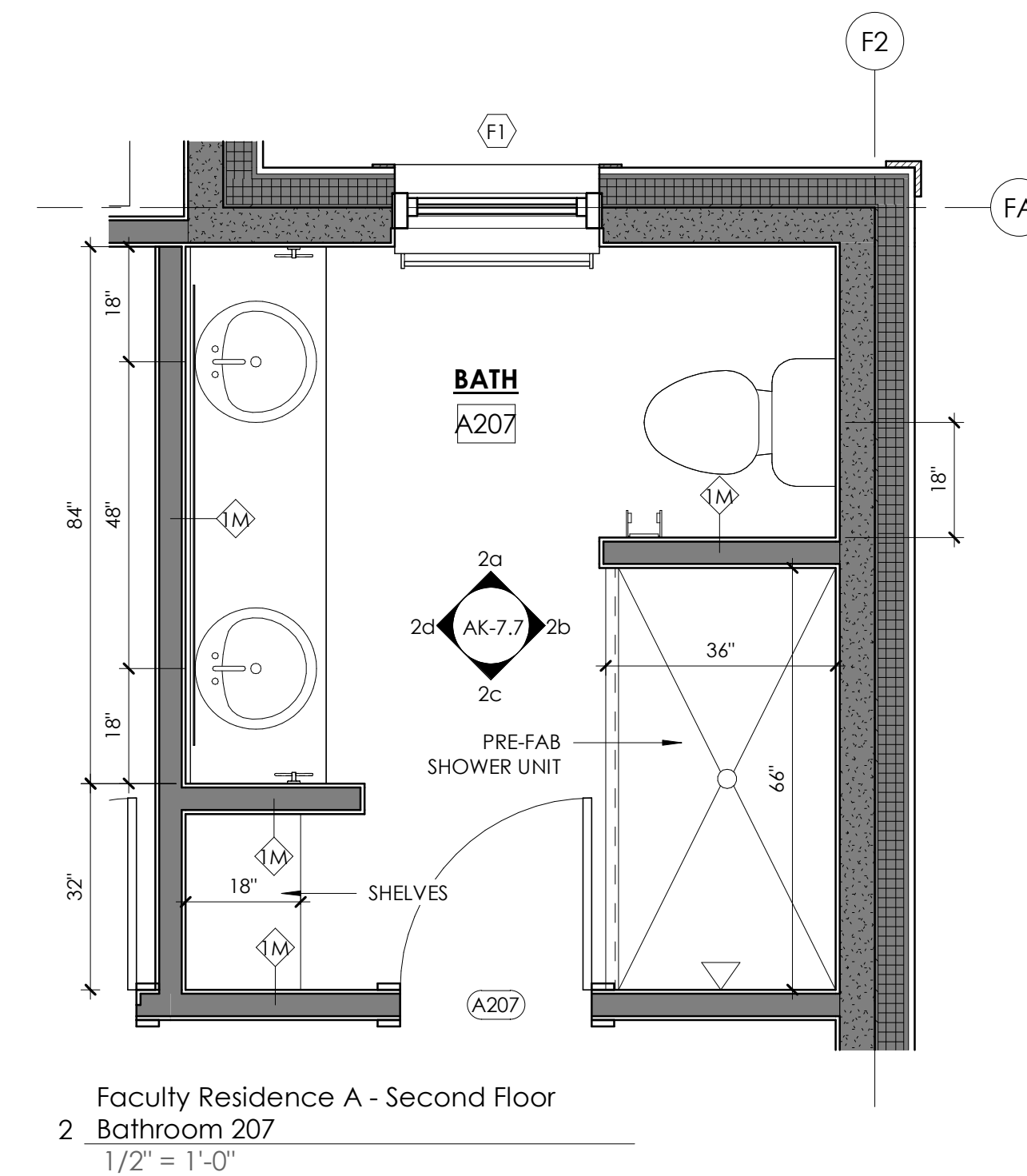
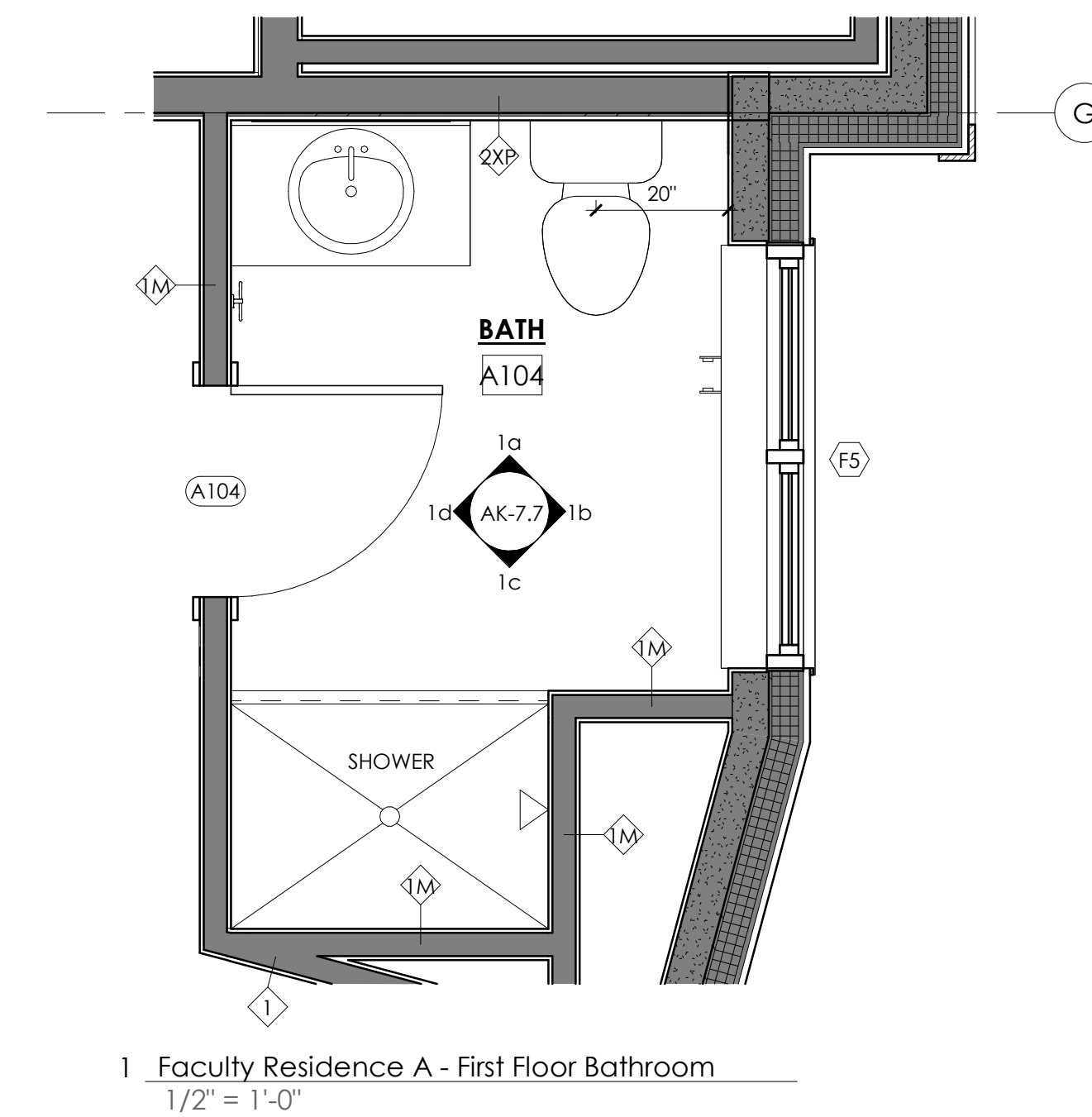
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KUA KILTON/WELCH DORMITORIES

Main Street,
 Meriden, NH 03770

KILTON FACULTY RES. A ENLARGED BATHROOMS

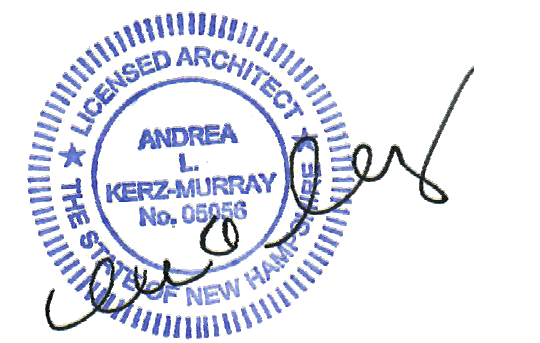
AK-7.7



- ENLARGED DRAWING GENERAL NOTES:**
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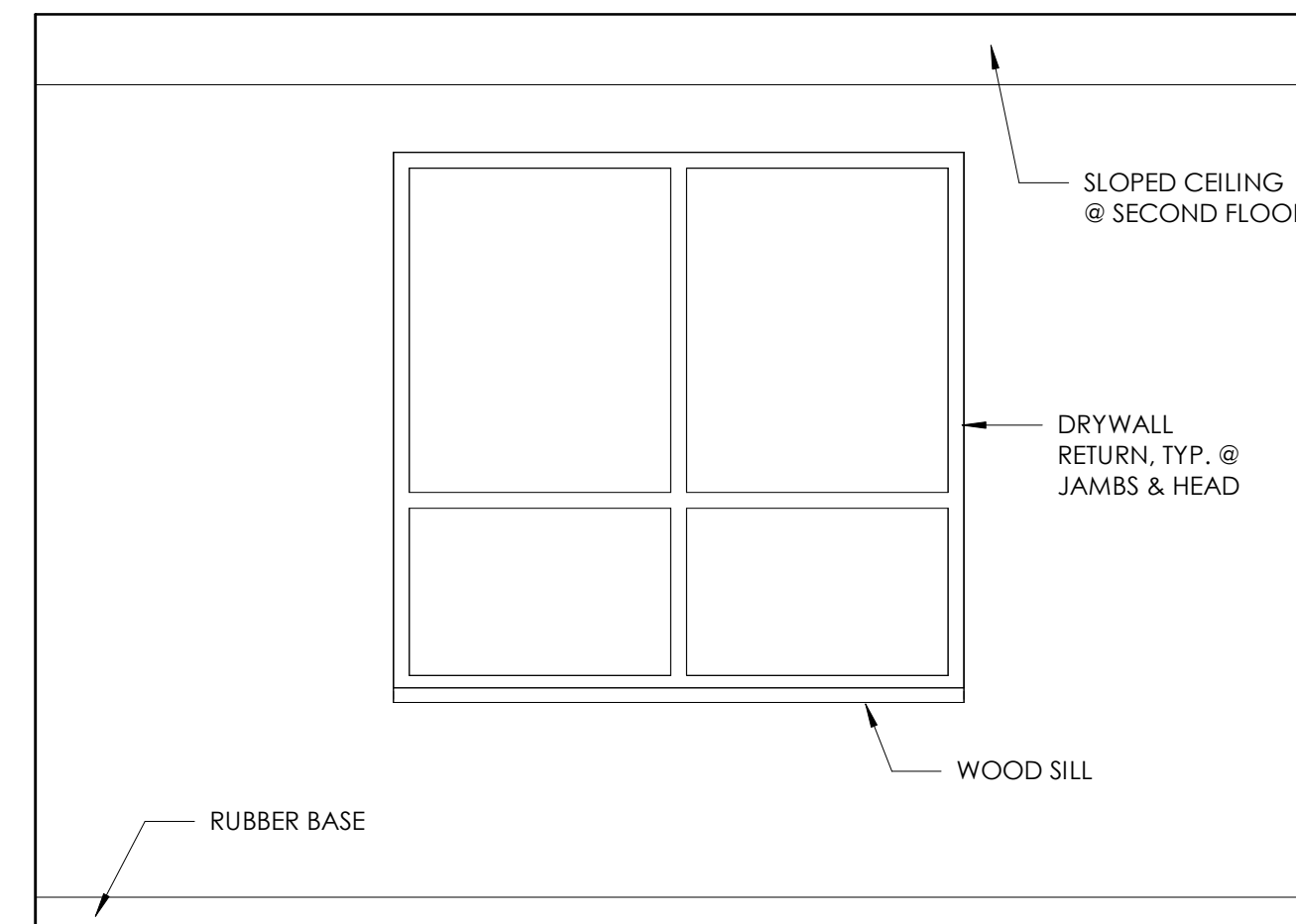
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**KUA
KILTON/WELCH
DORMITORIES**

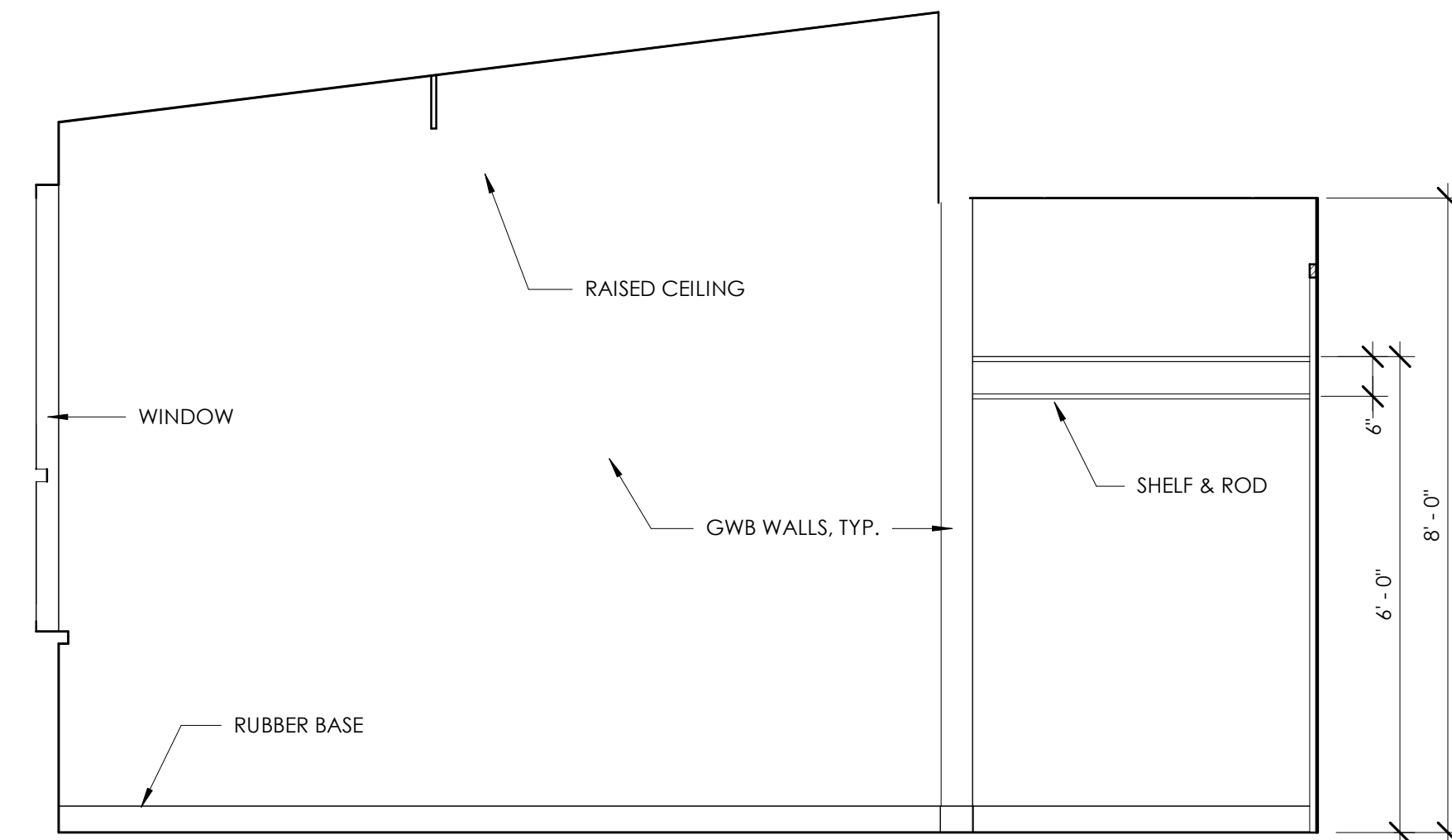
Main Street,
Meriden, NH 03770

**KILTON
ENLARGED DORM
ROOM
DRAWINGS**

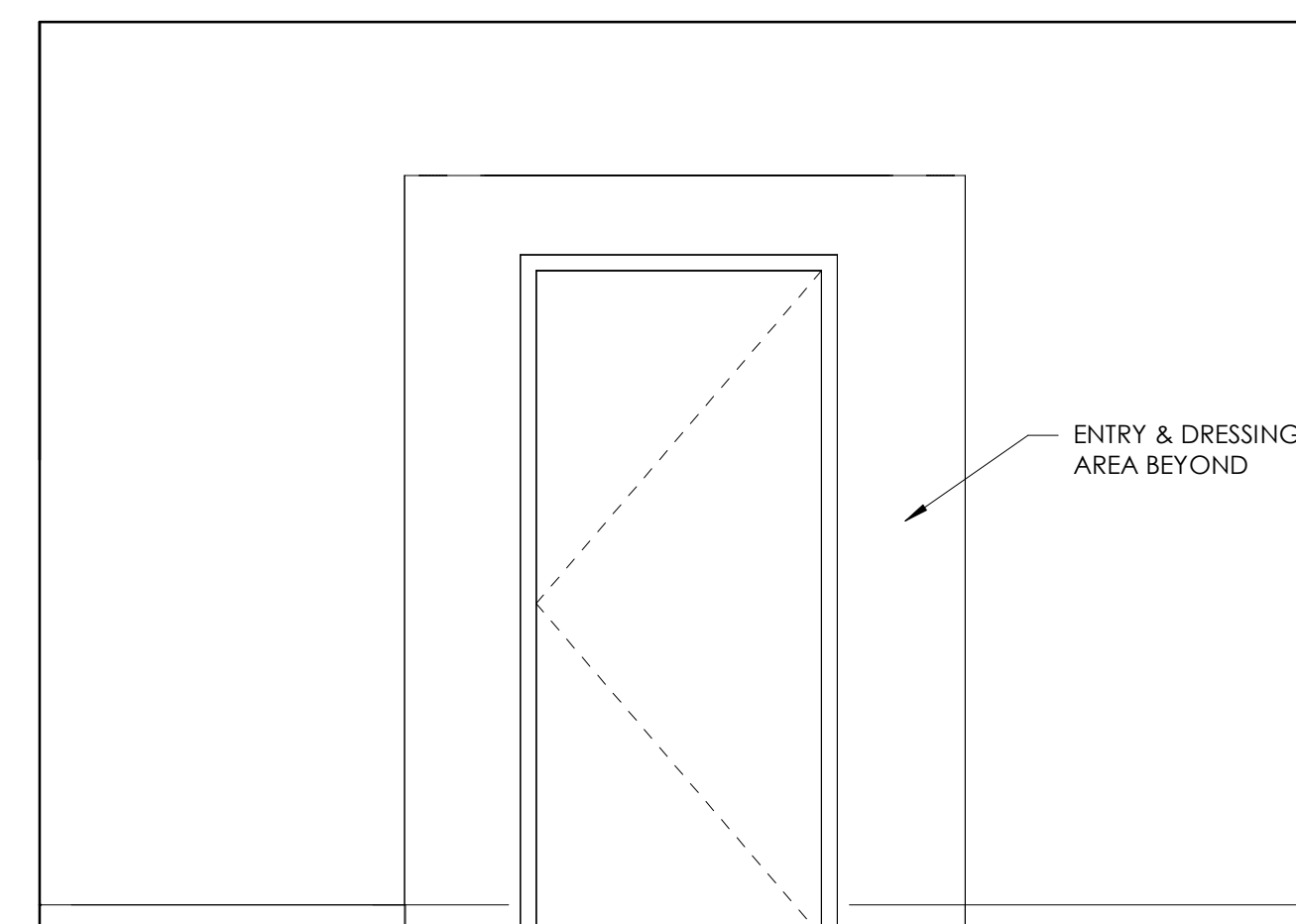
AK-7.8



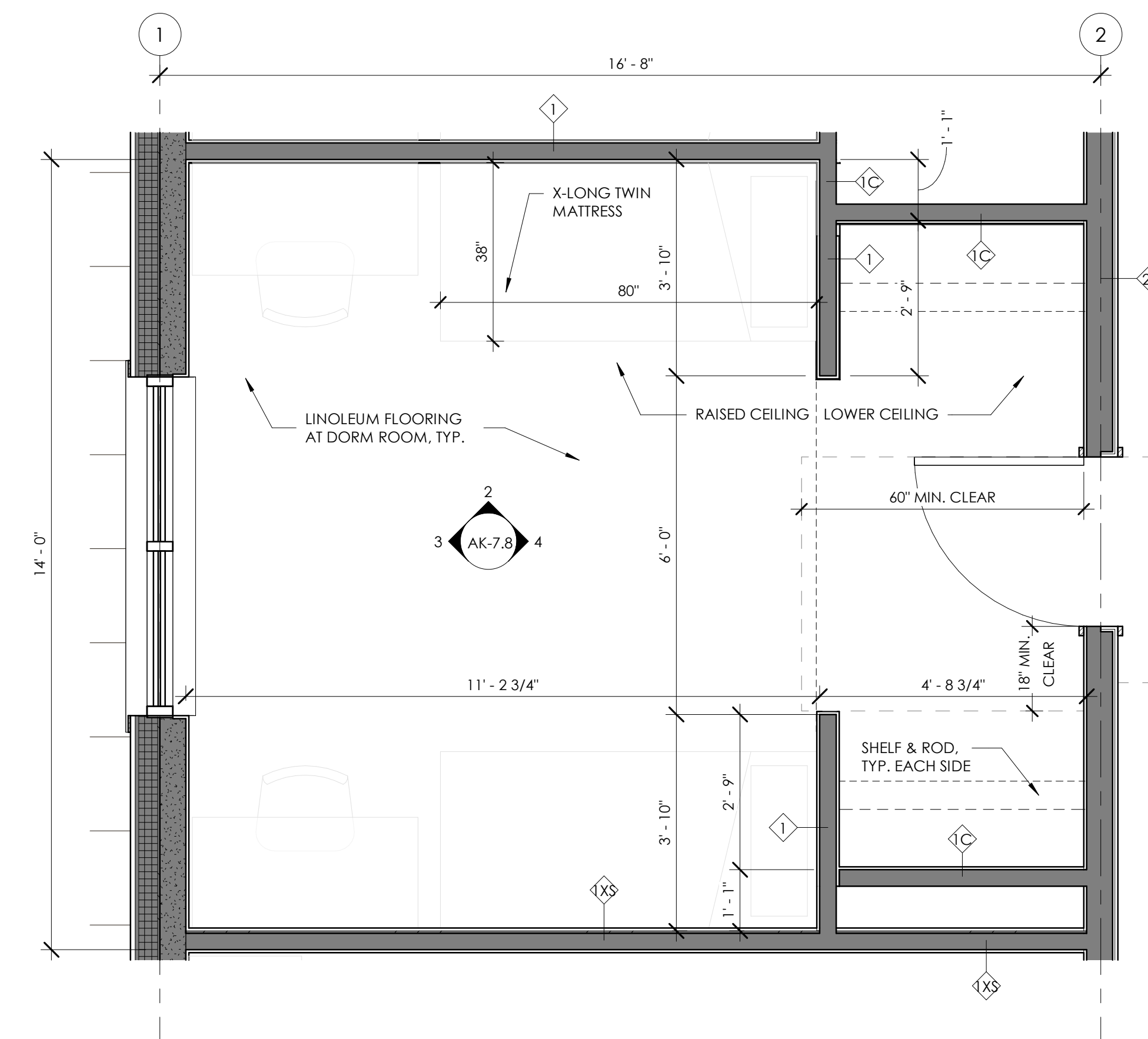
3 Dorm Room Exterior Wall
1/2" = 1'-0"



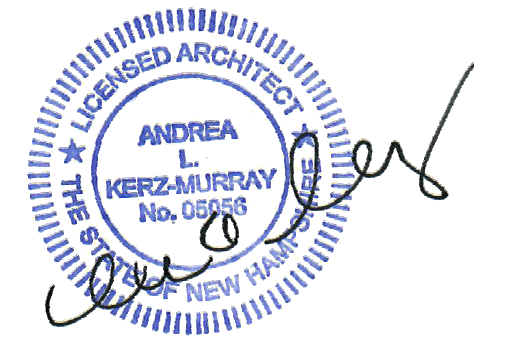
2 Dorm Room Unit Wall
1/2" = 1'-0"



4 Dorm Room Hallway Wall
1/2" = 1'-0"



1 Typical Enlarged Dorm Plan
1/2" = 1'-0"



#	Date	Description
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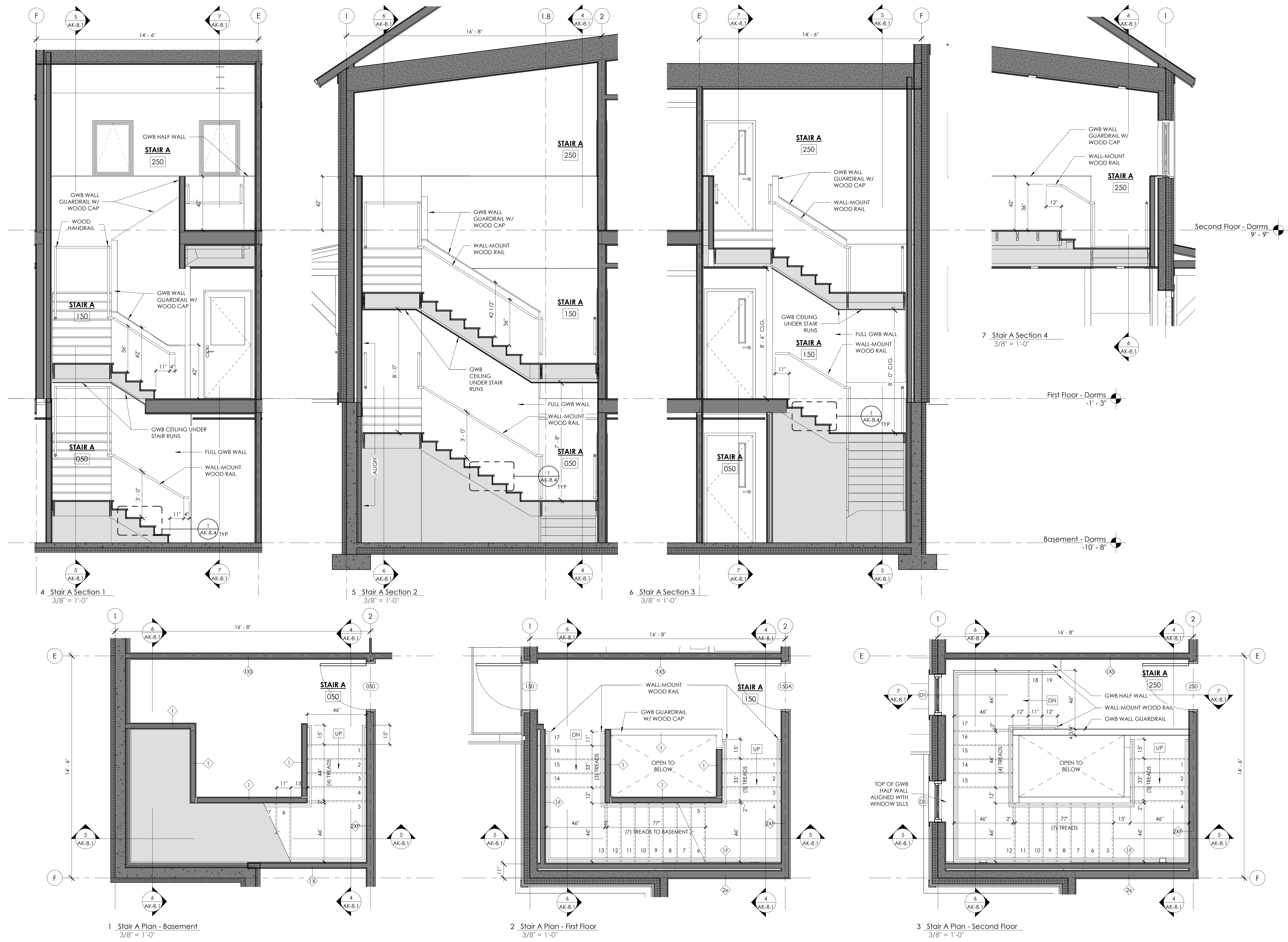
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**KILTON
DORM STAIR A
PLANS &
SECTIONS**

AK-8.1





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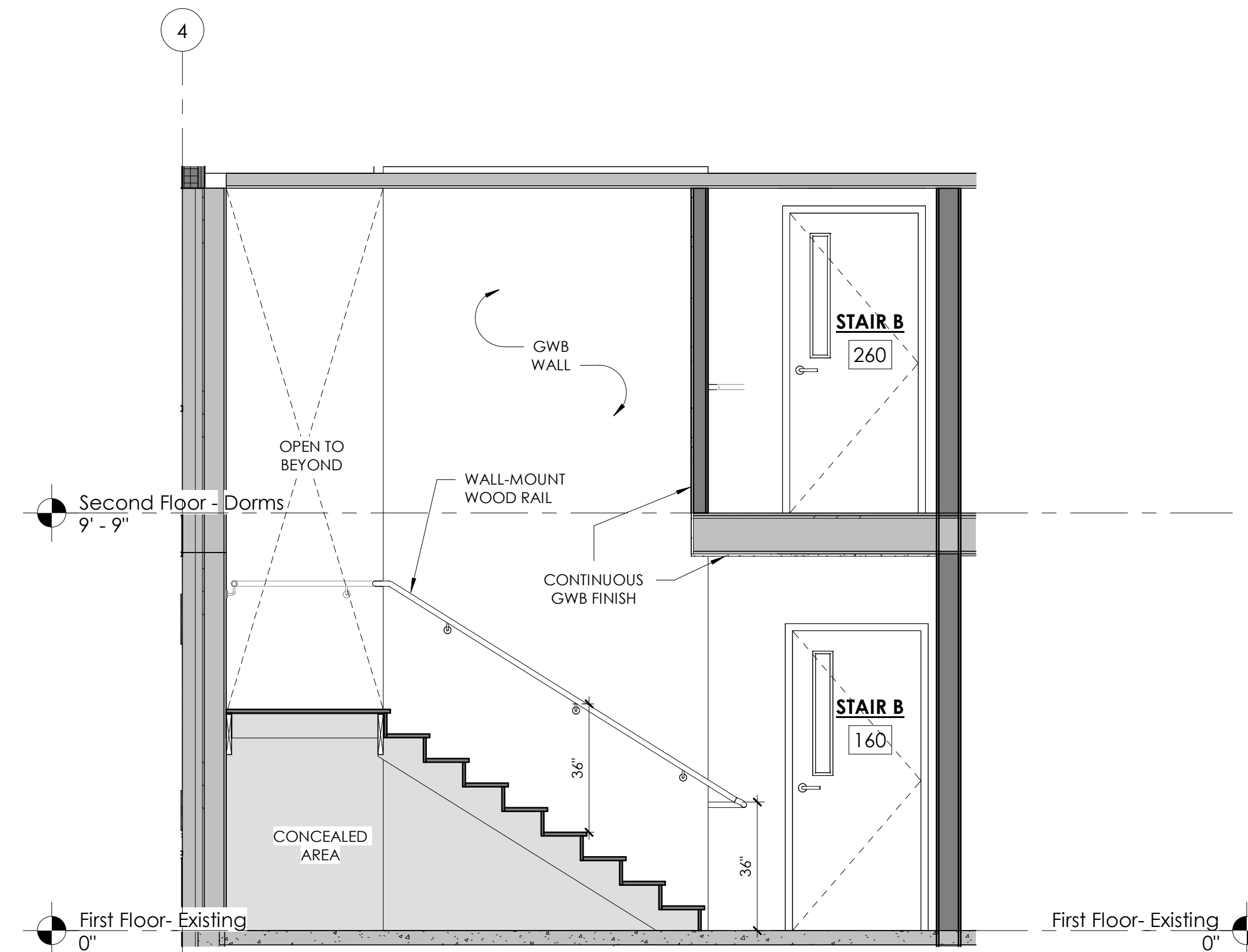
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KUA
KILTON/WELCH
DORMITORIES

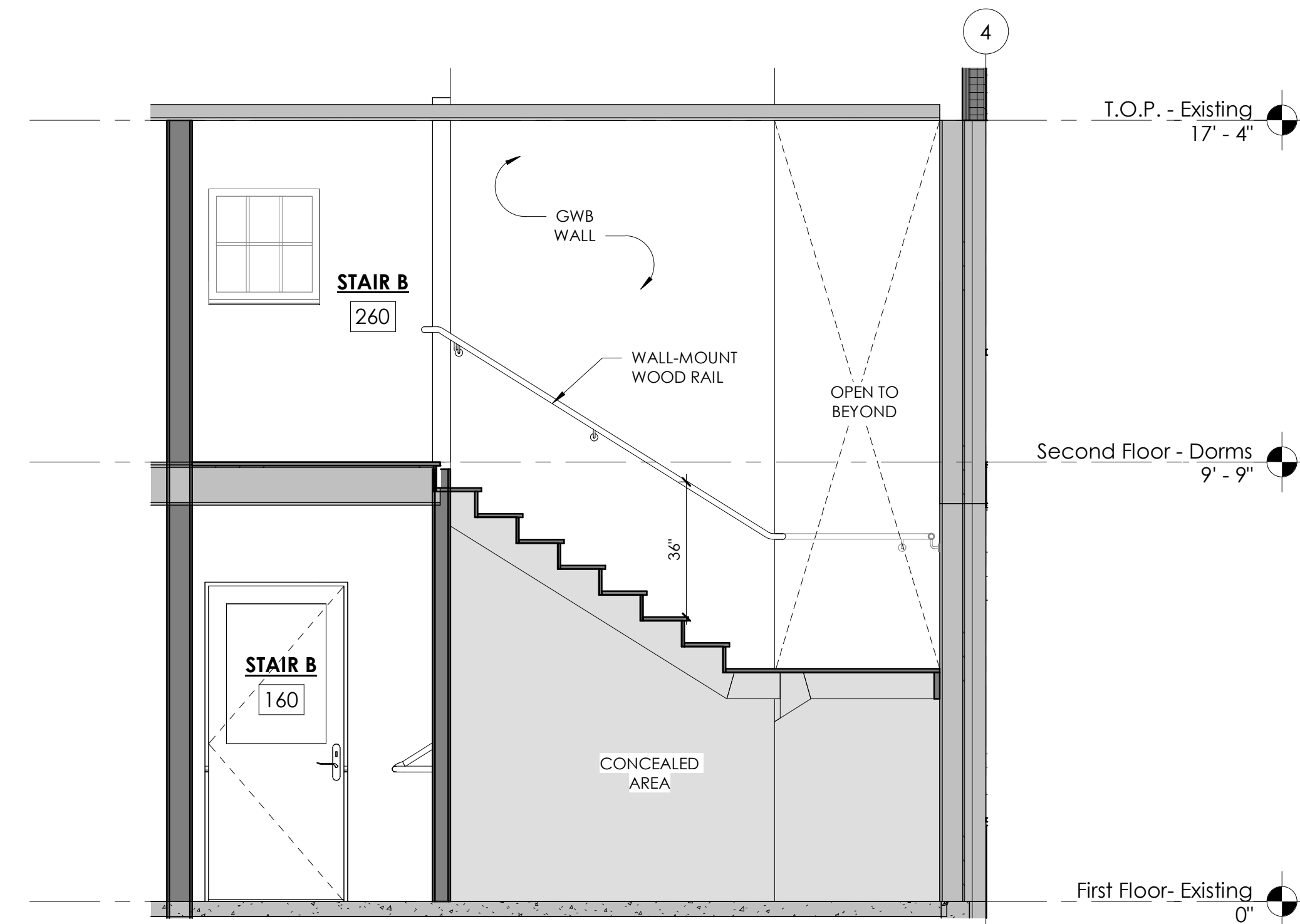
Main Street,
Meriden, NH 03770

KILTON
DORM STAIR B
PLANS &
SECTIONS

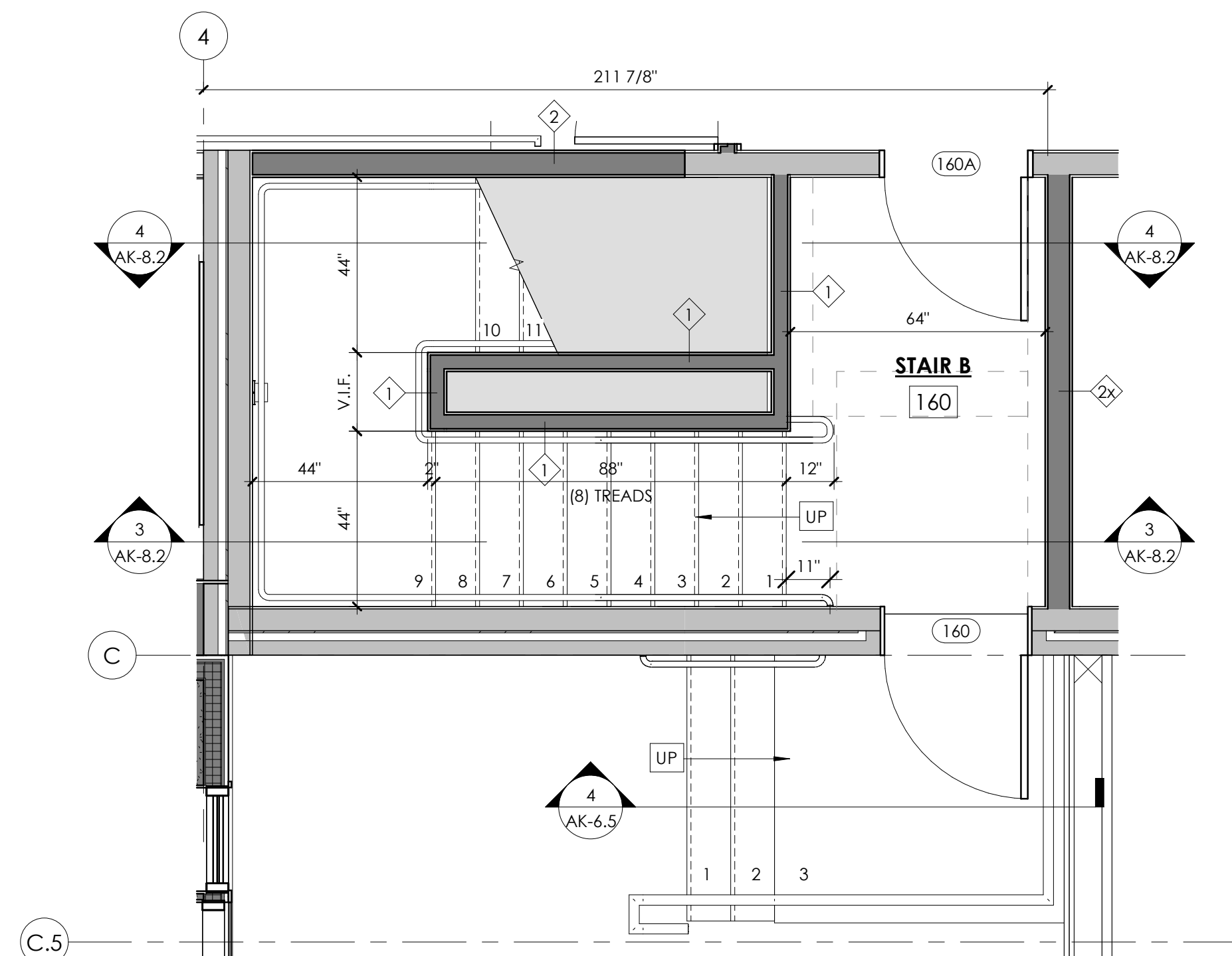
AK-8.2



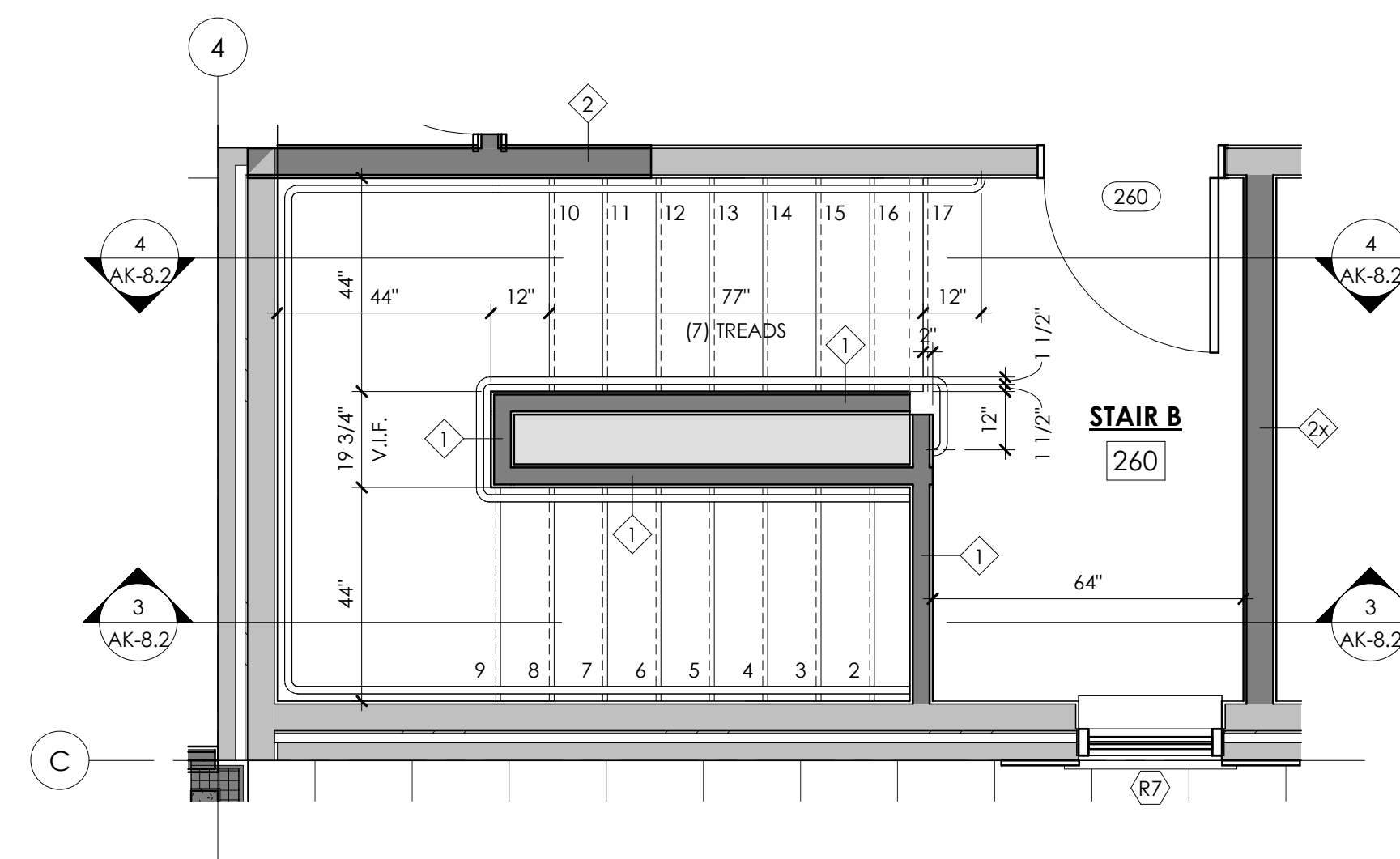
3 Stair B - Section 1
3/8" = 1'-0"



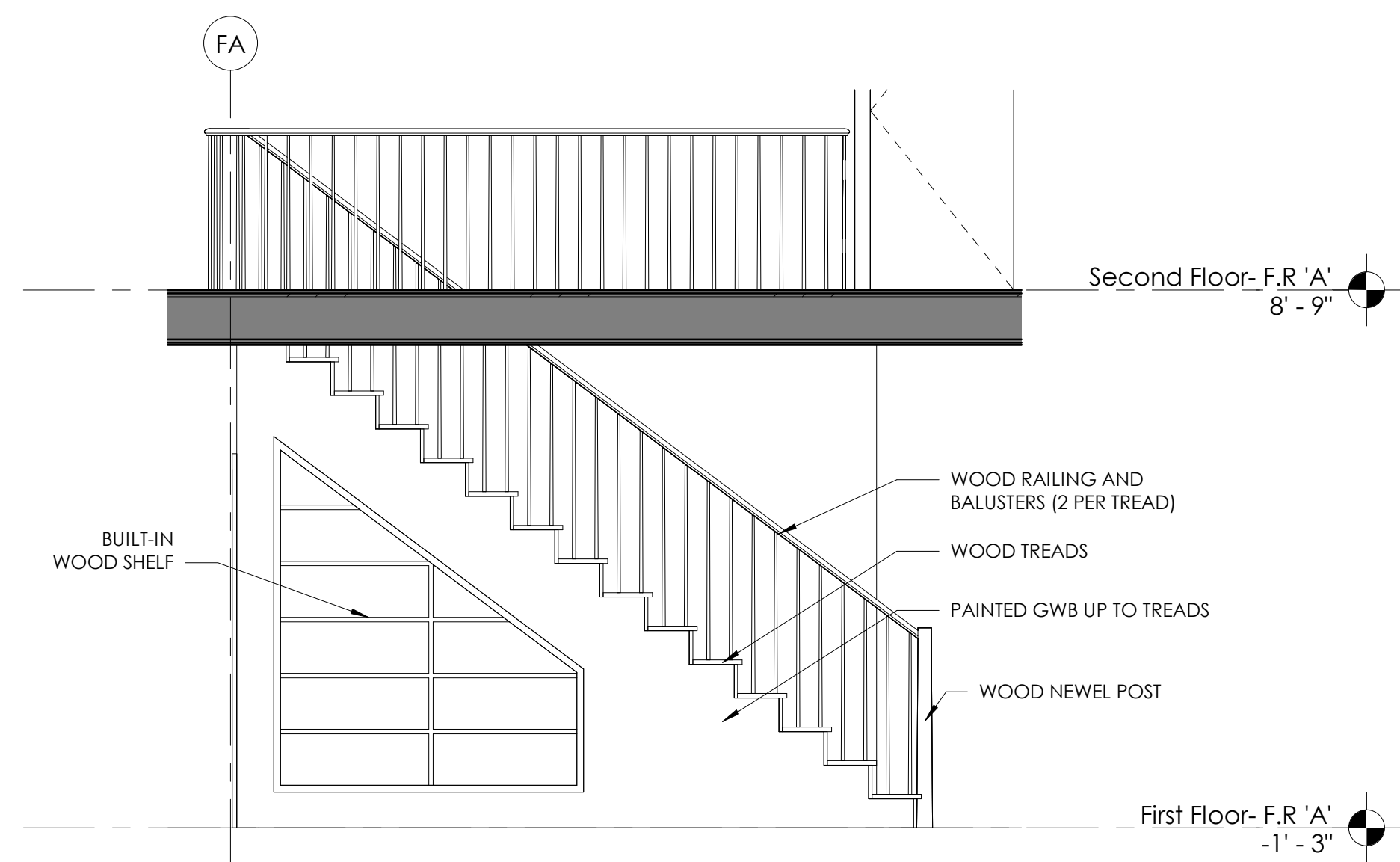
4 Stair B - Section 2
3/8" = 1'-0"



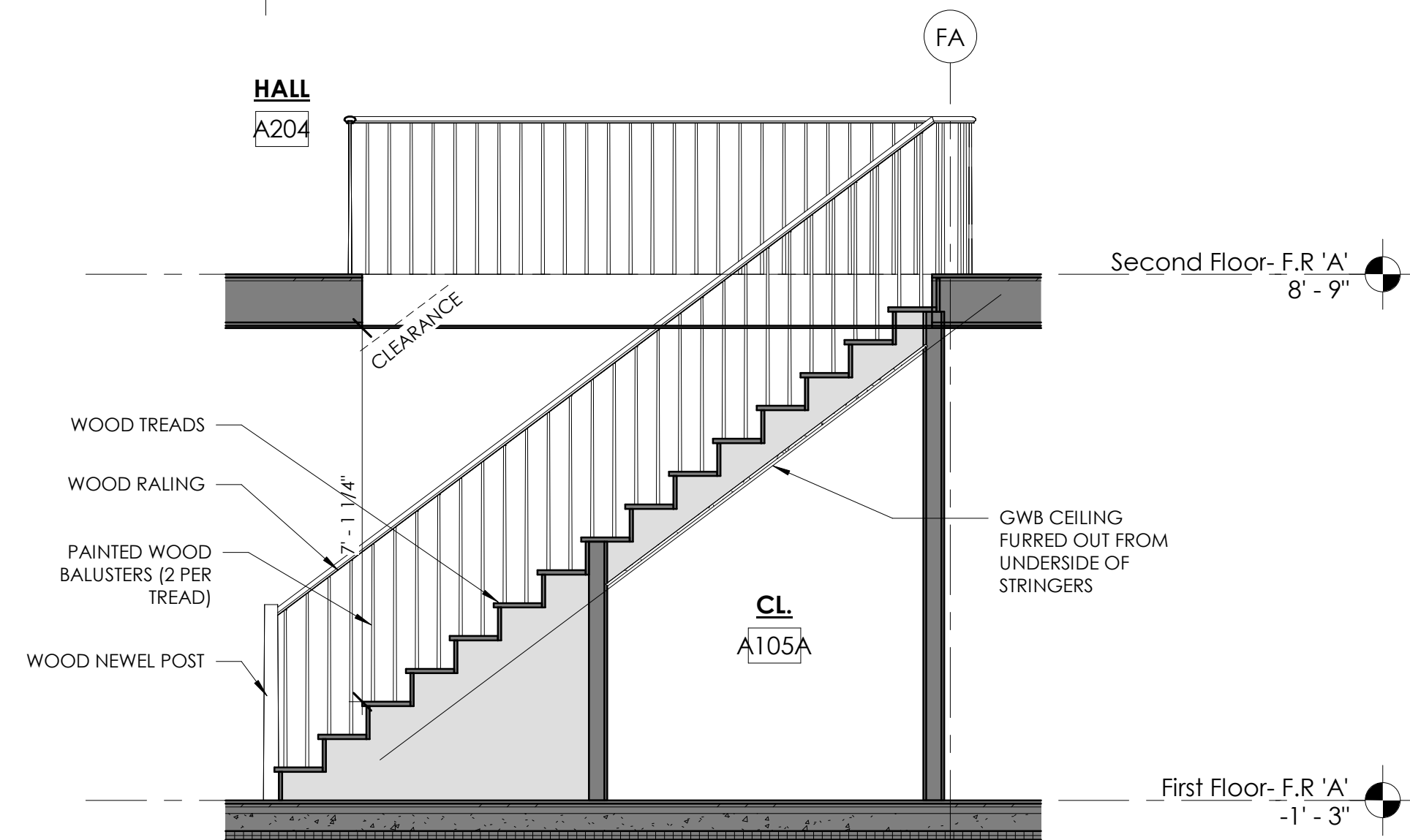
1 Stair B Plan - First Floor
3/8" = 1'-0"



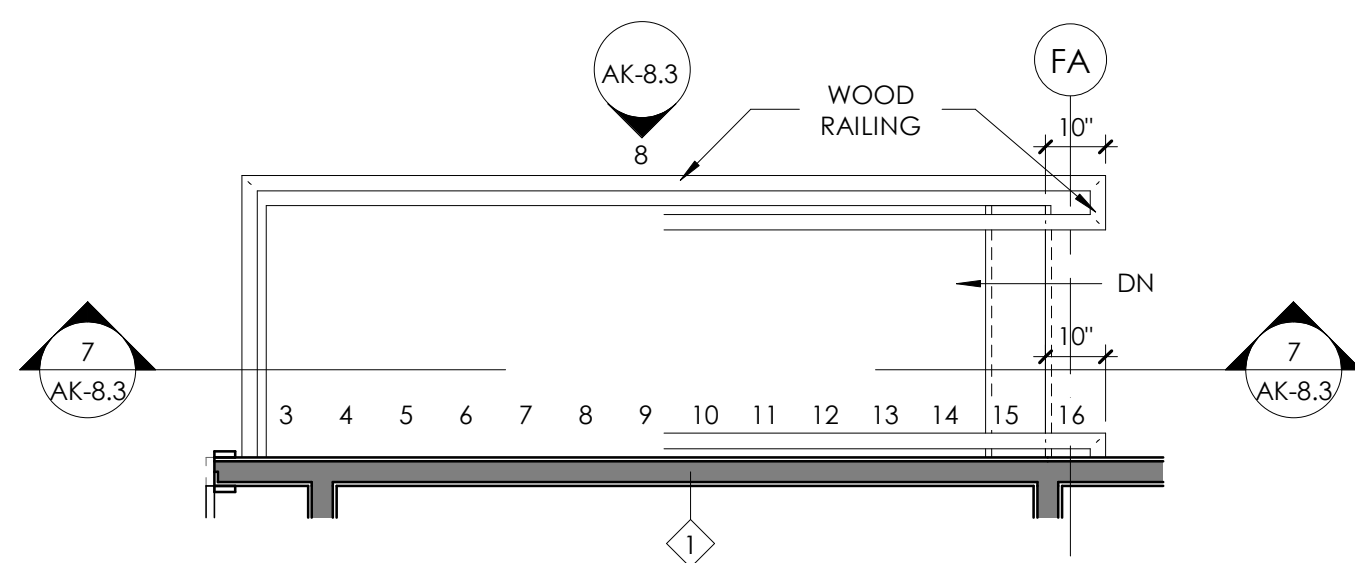
2 Stair B Plan - Second Floor
3/8" = 1'-0"



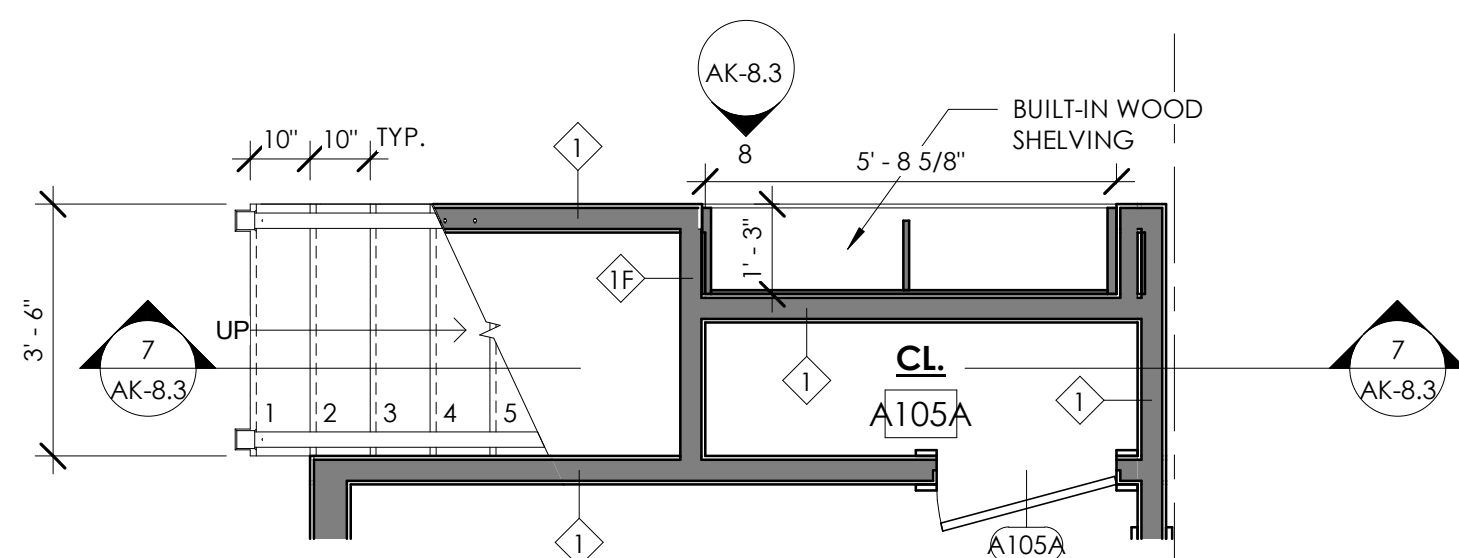
8 NEW FAC. RES. STAIR ELEVATION
3/8" = 1'-0"



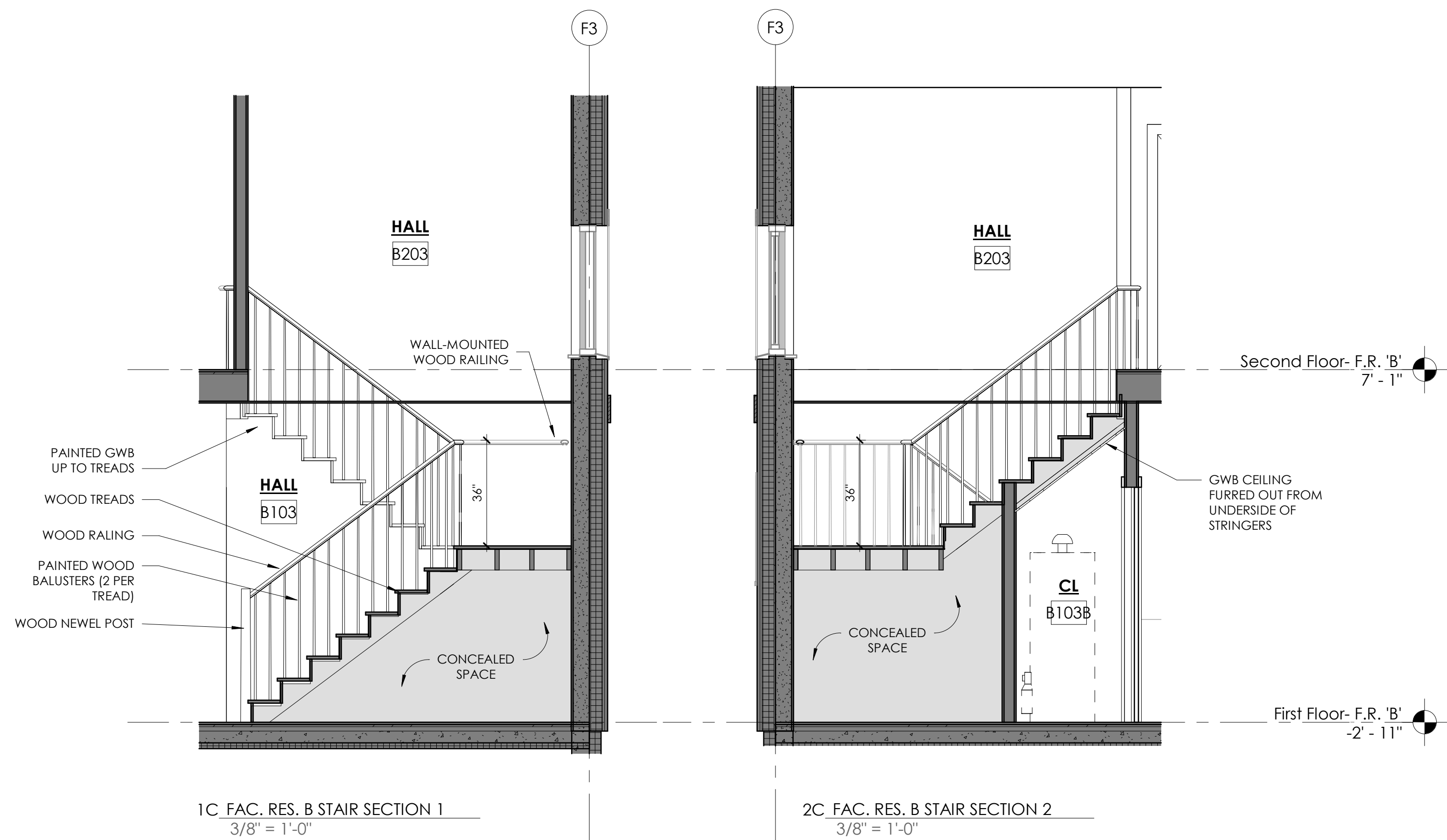
7 NEW FAC. RES. STAIR SECTION
3/8" = 1'-0"



6 NEW FAC. RES. 2ND FLR. STAIR PLAN
3/8" = 1'-0"

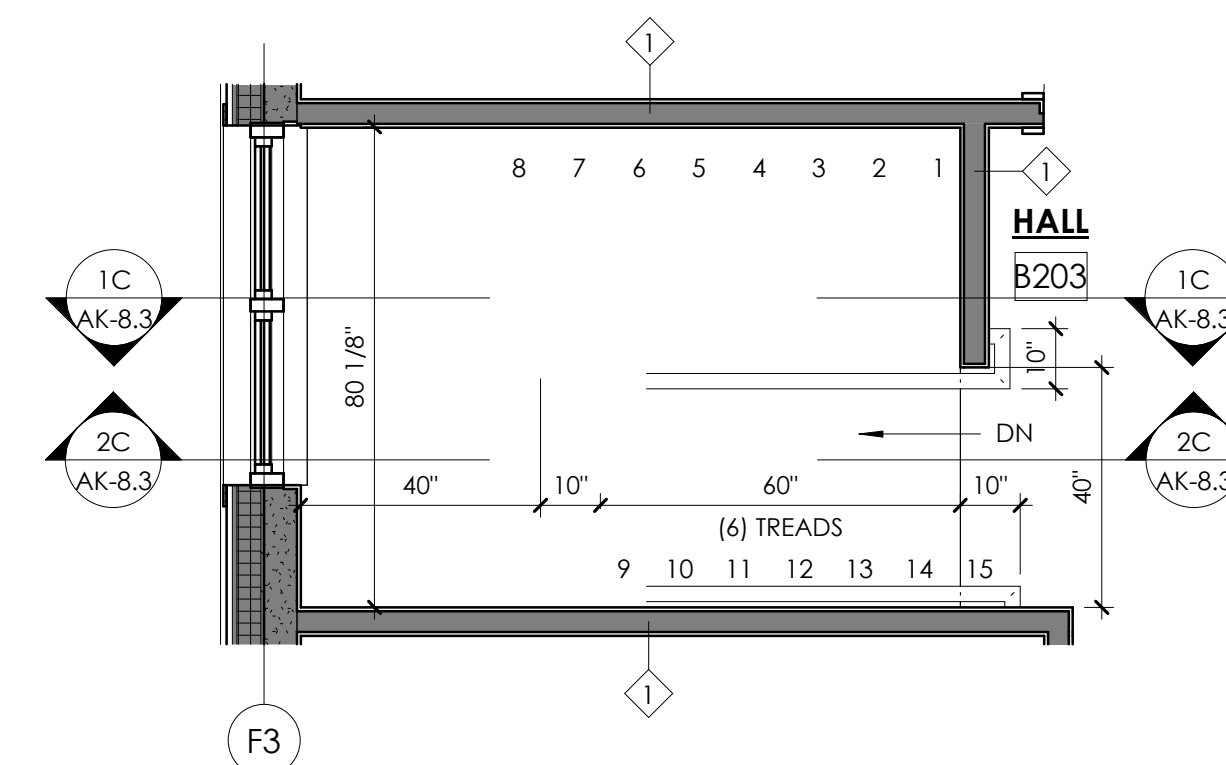


5 NEW FAC. RES. ENLG. 1ST FLR. STAIR PLAN
3/8" = 1'-0"

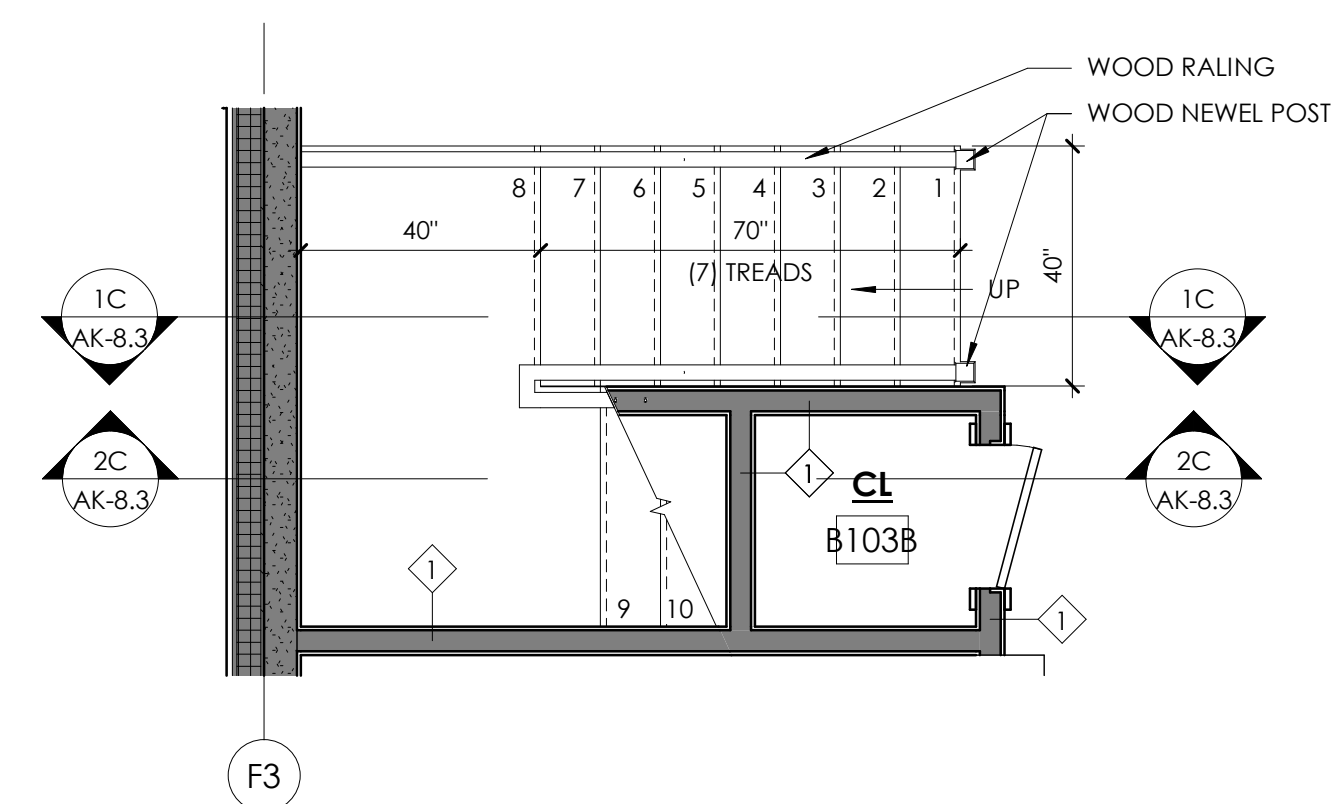


1C FAC. RES. B STAIR SECTION 1
3/8" = 1'-0"

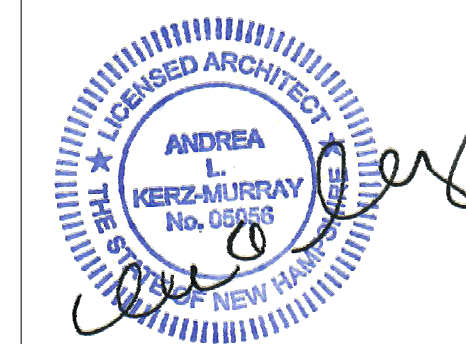
2C FAC. RES. B STAIR SECTION 2
3/8" = 1'-0"



4C FAC. RES. B ENLG. 2ND FLR. STAIR PLAN
3/8" = 1'-0"



3C FAC. RES. B ENLG. 1ST FLR. STAIR PLAN
3/8" = 1'-0"



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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

KILTON
FACULTY
RESIDENCES STAIR
SECTION

AK-8.3



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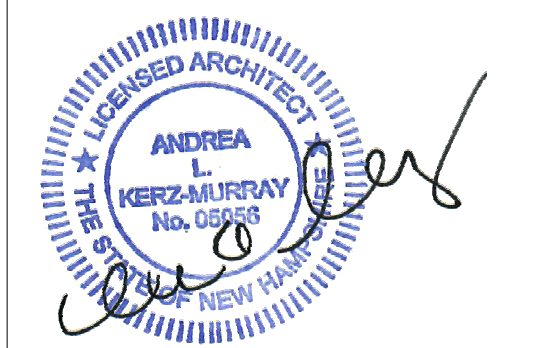
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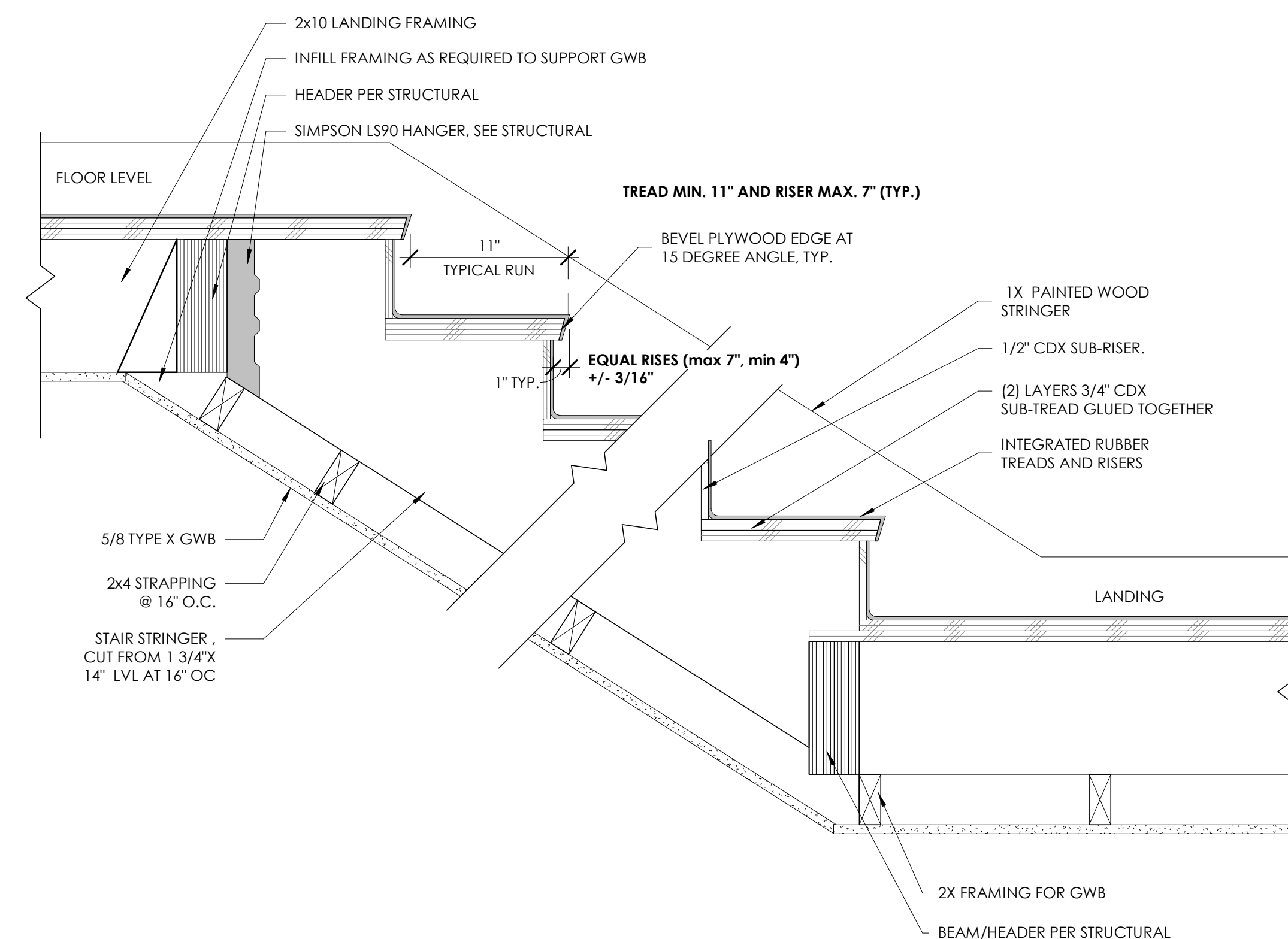
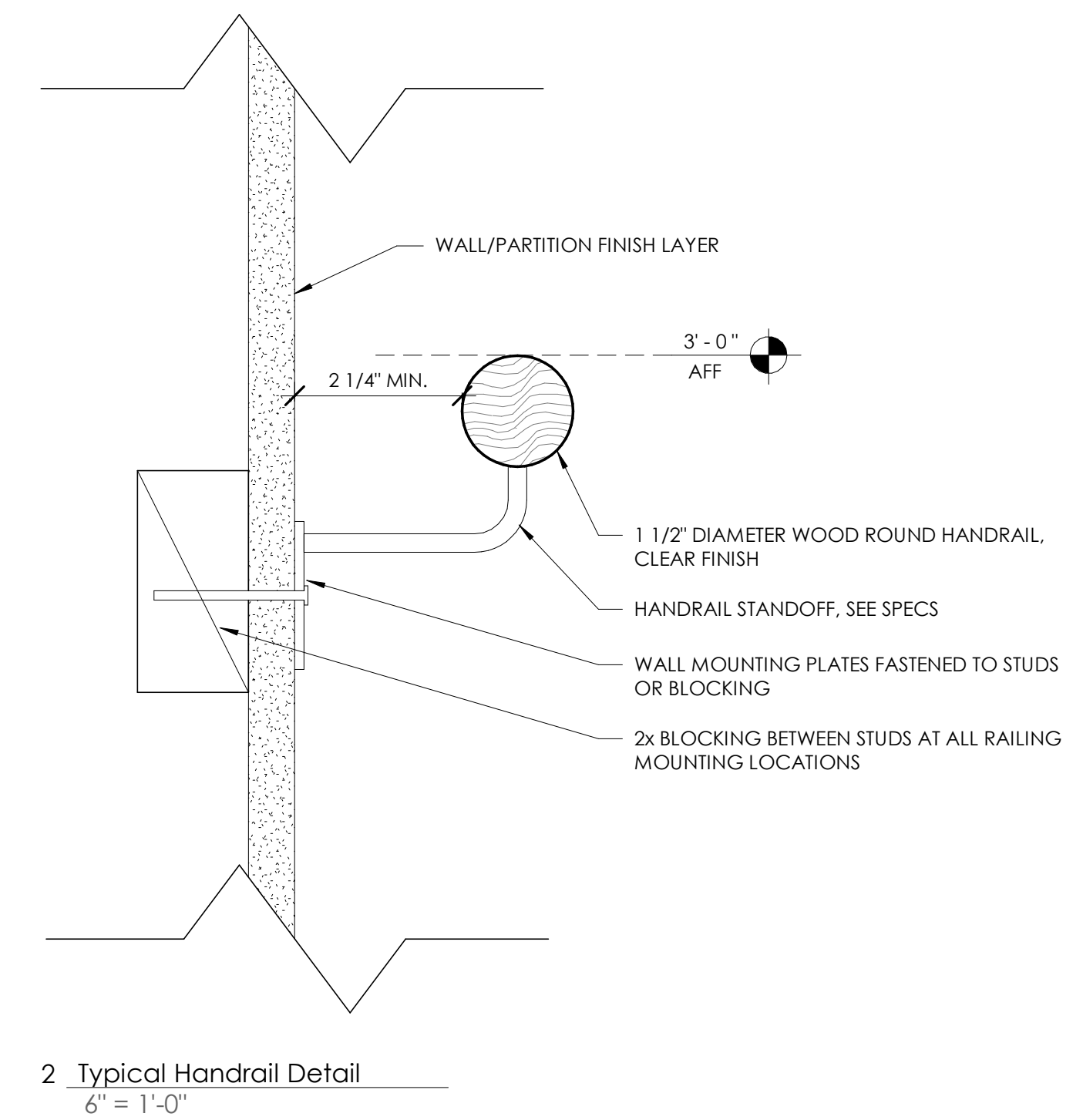
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
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**KILTON
STAIR DETAILS**

AK-8.4



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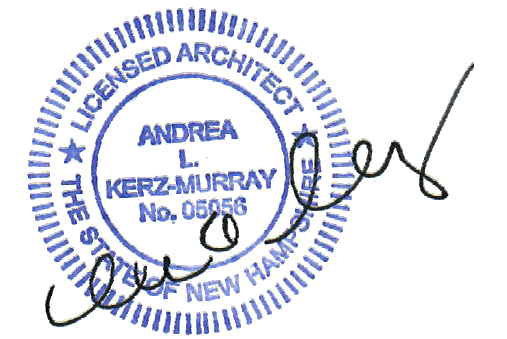
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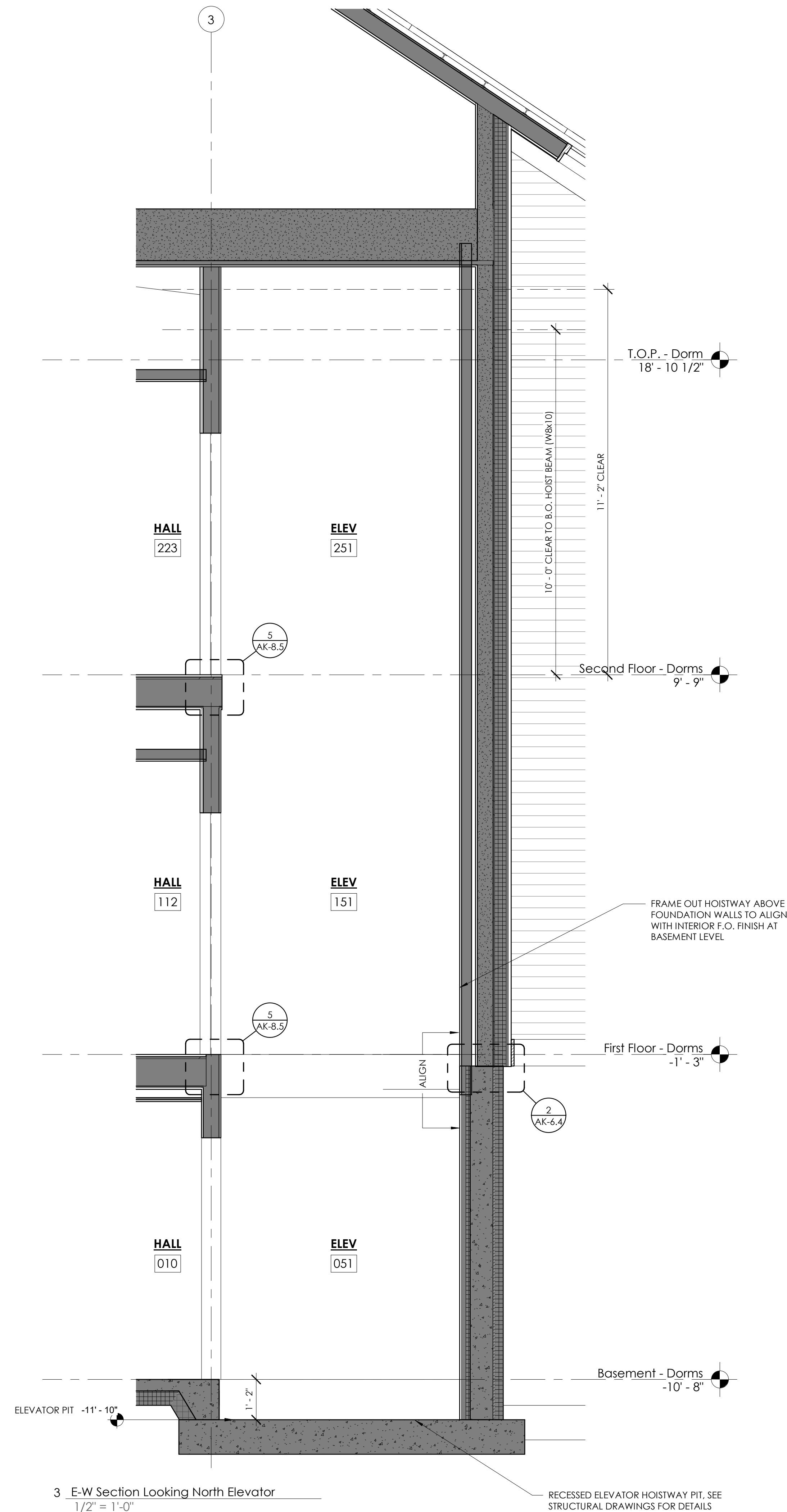
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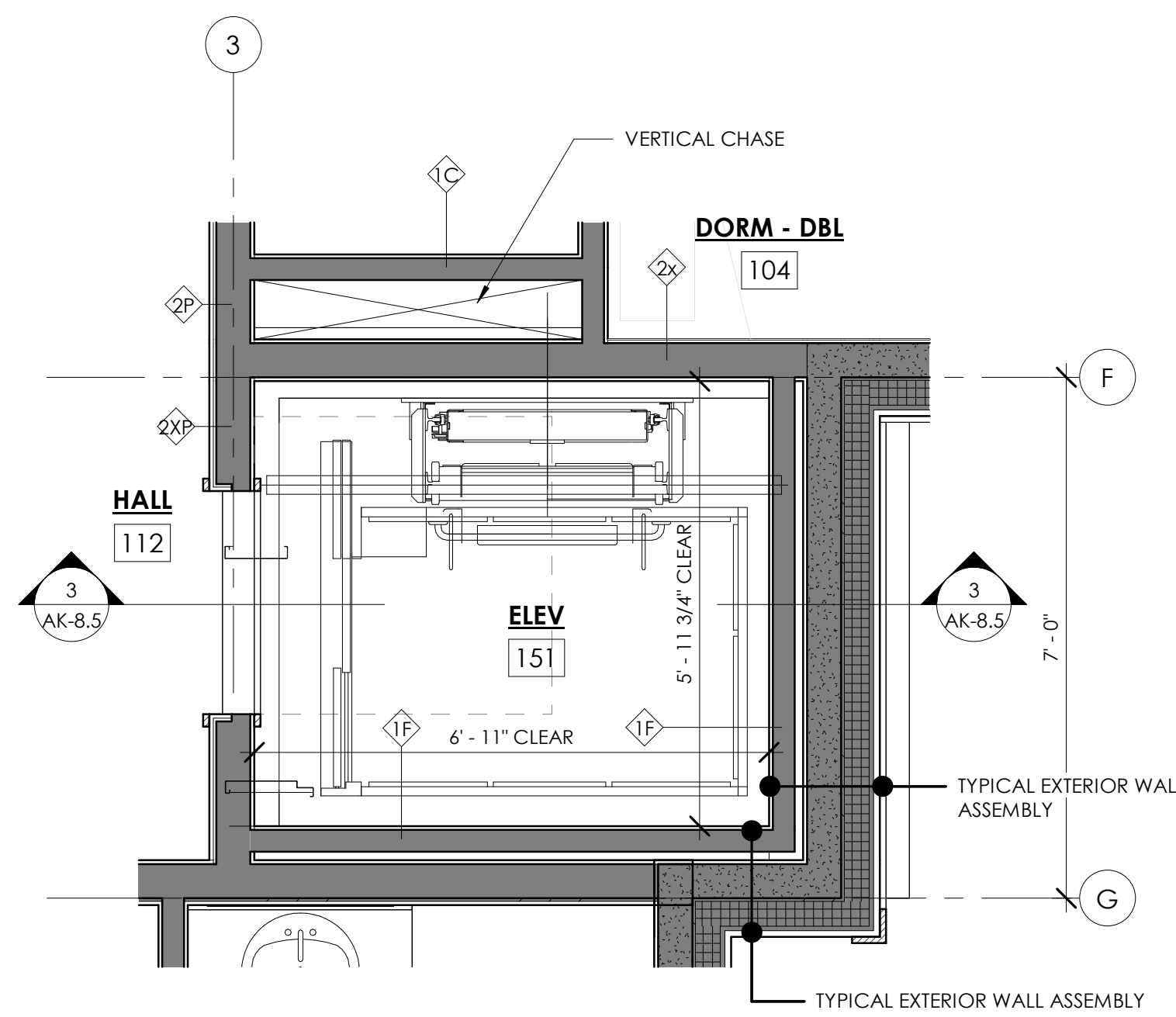
**KILTON
ELEVATOR
DRAWINGS**

AK-8.5

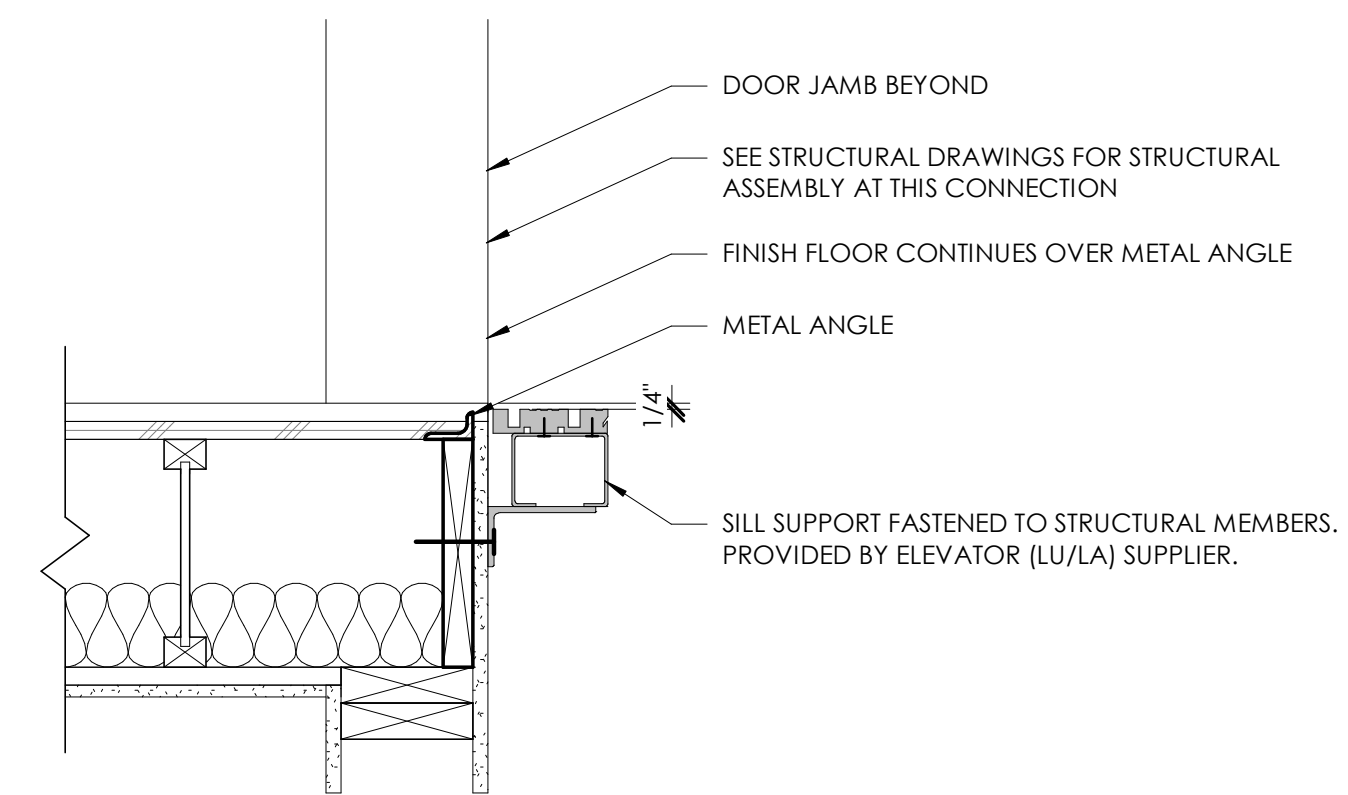


3 E-W Section Looking North Elevator
1/2" = 1'-0"

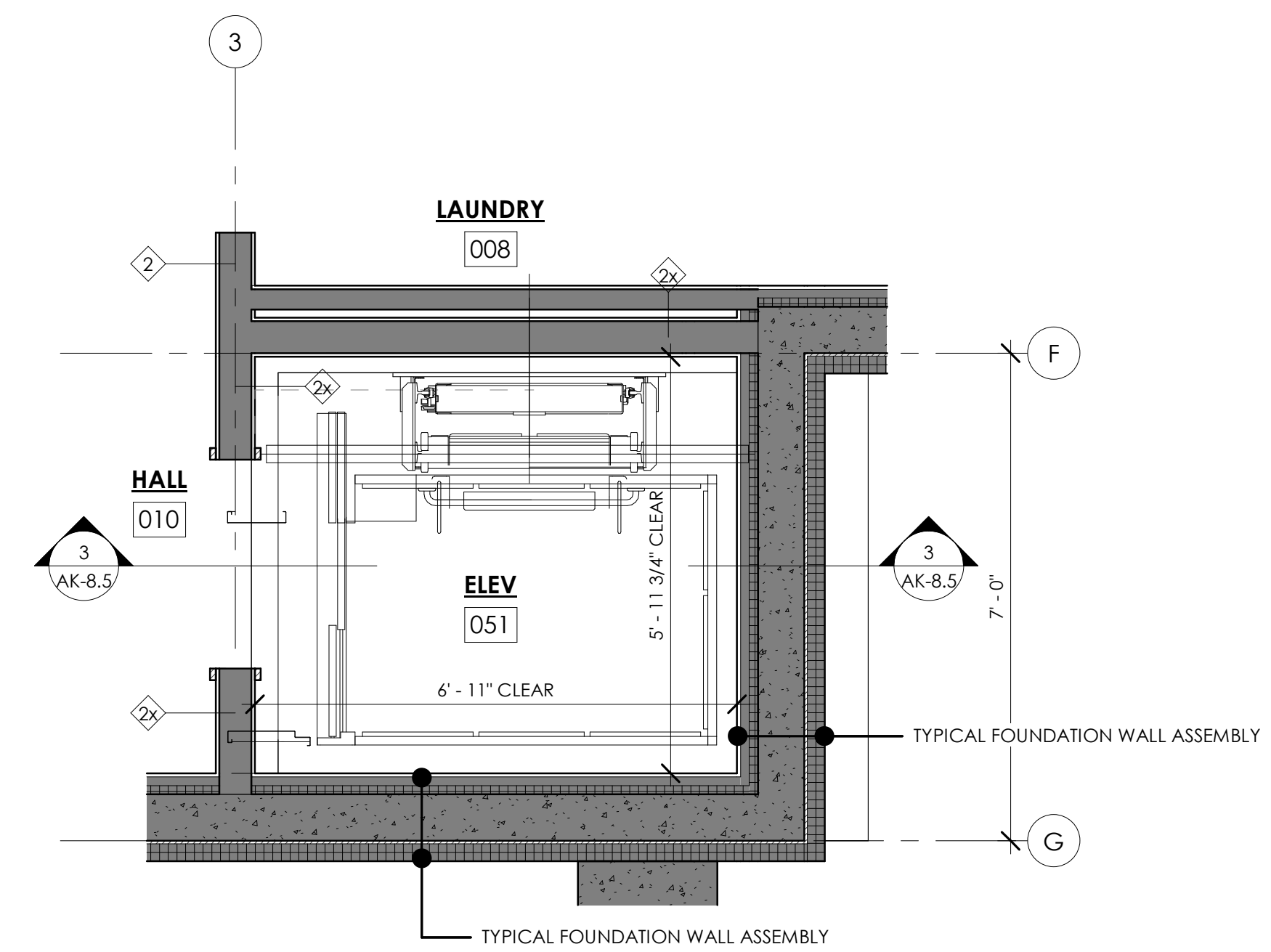
RECESSED ELEVATOR HOISTWAY PIT, SEE
STRUCTURAL DRAWINGS FOR DETAILS



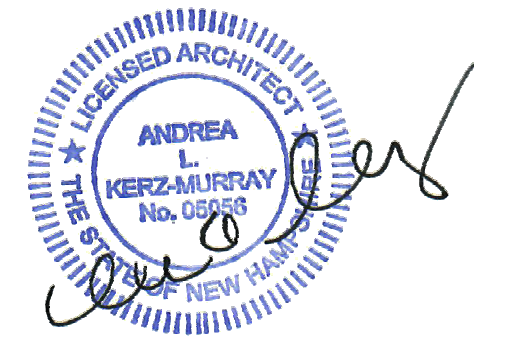
2 Elevator First Floor Enlarged Plan
1/2" = 1'-0"



5 Floor-Hoistway Transition Detail
1 1/2" = 1'-0"



1 Elevator Basement Enlarged Plan
1/2" = 1'-0"



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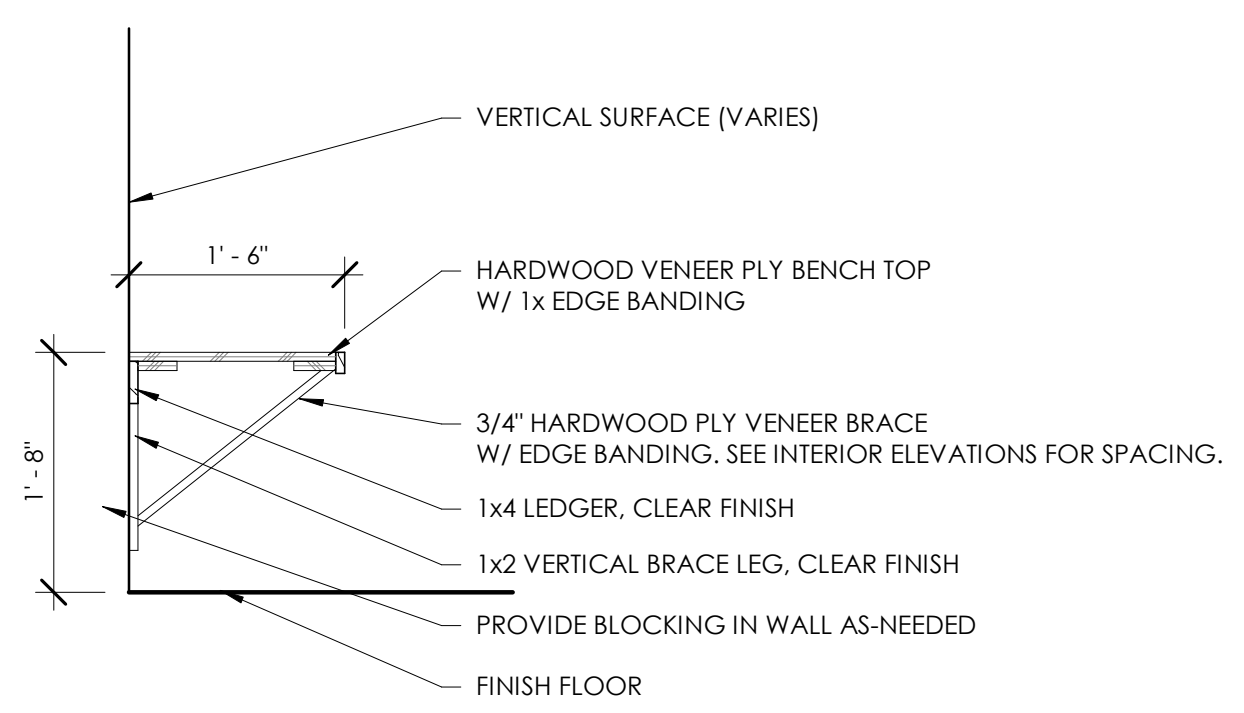
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KILTON/WELCH
DORMITORIES**

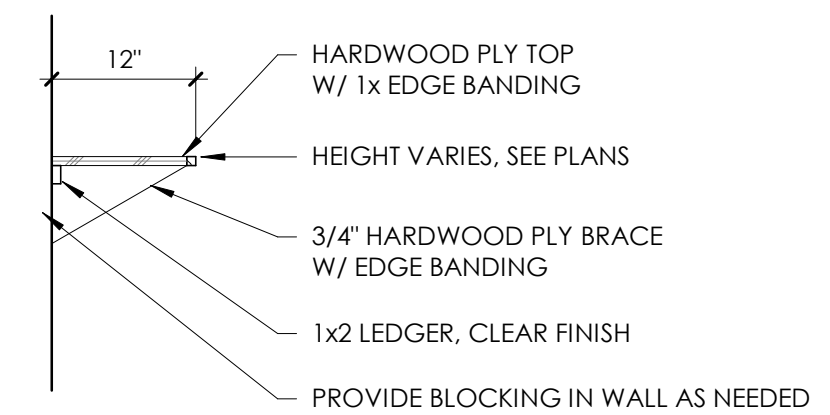
Main Street,
Meriden, NH 03770

**KILTON
MILLWORK**

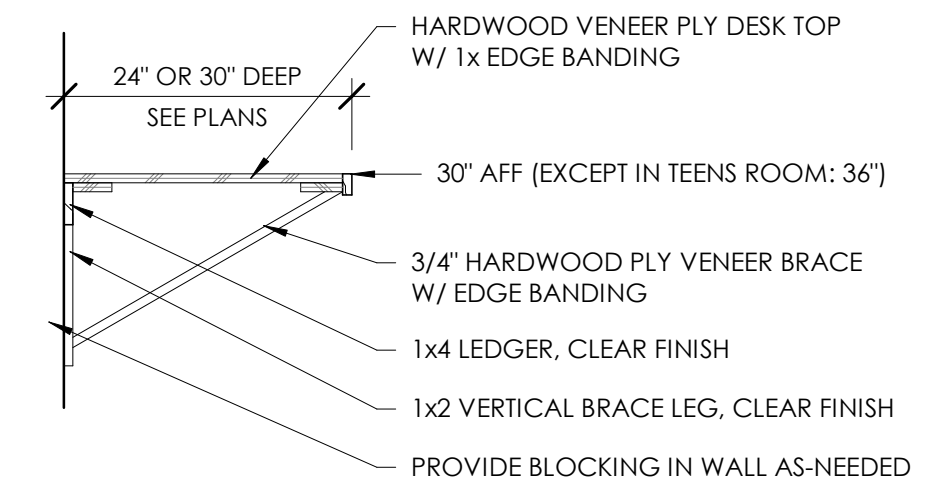
AK-9.1



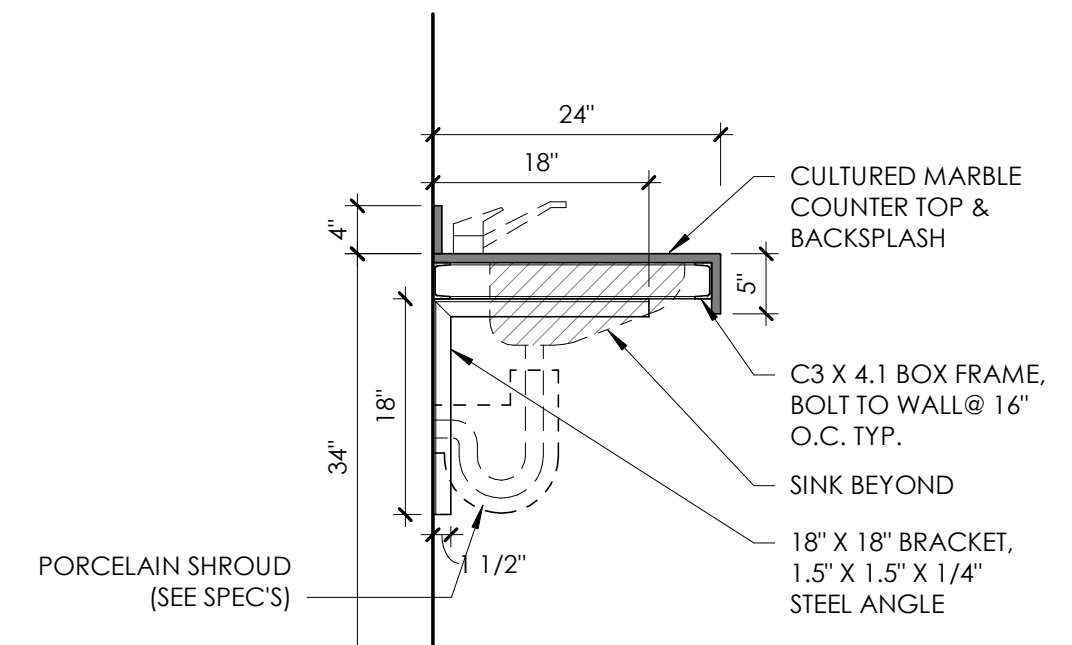
1 Typical Bench Detail
3/4" = 1'-0"



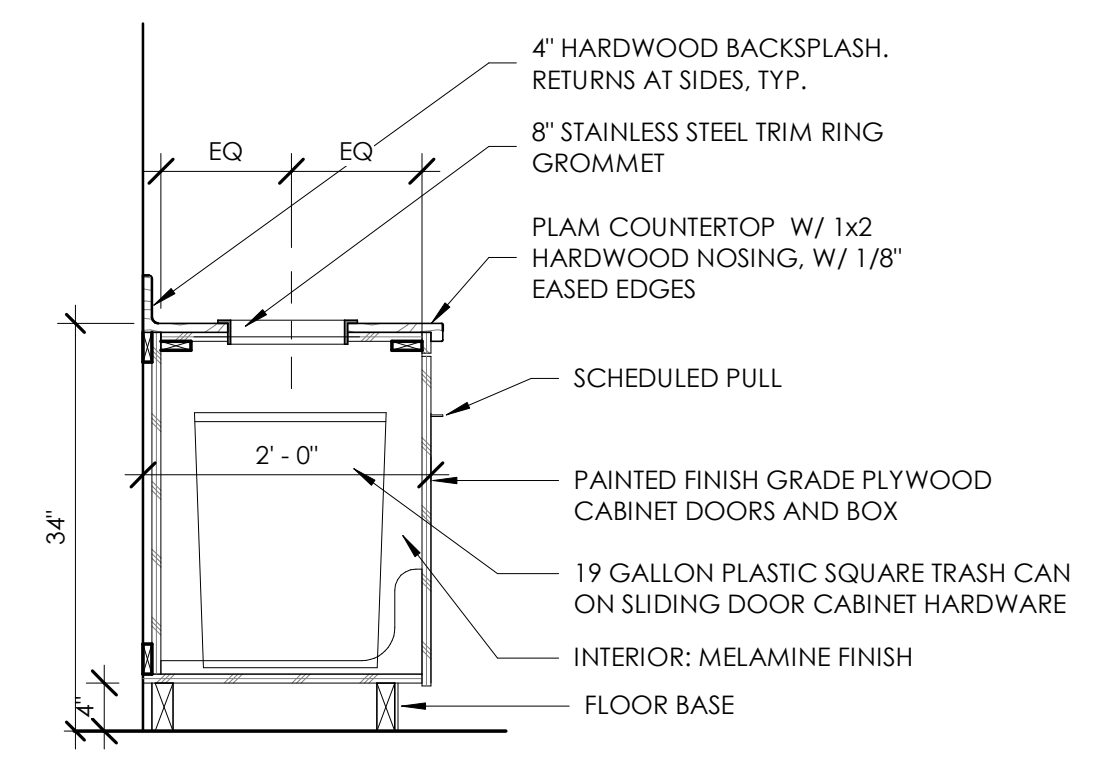
2 Typical Wall-Mounted Shelf Detail
3/4" = 1'-0"



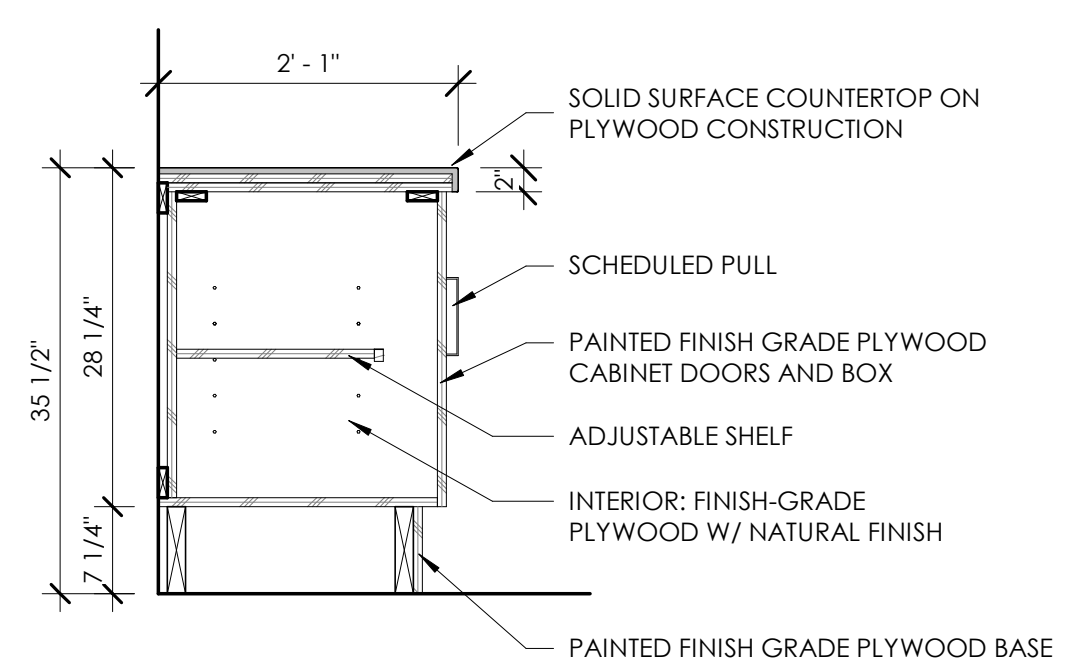
3 Typical Countertop Detail
3/4" = 1'-0"



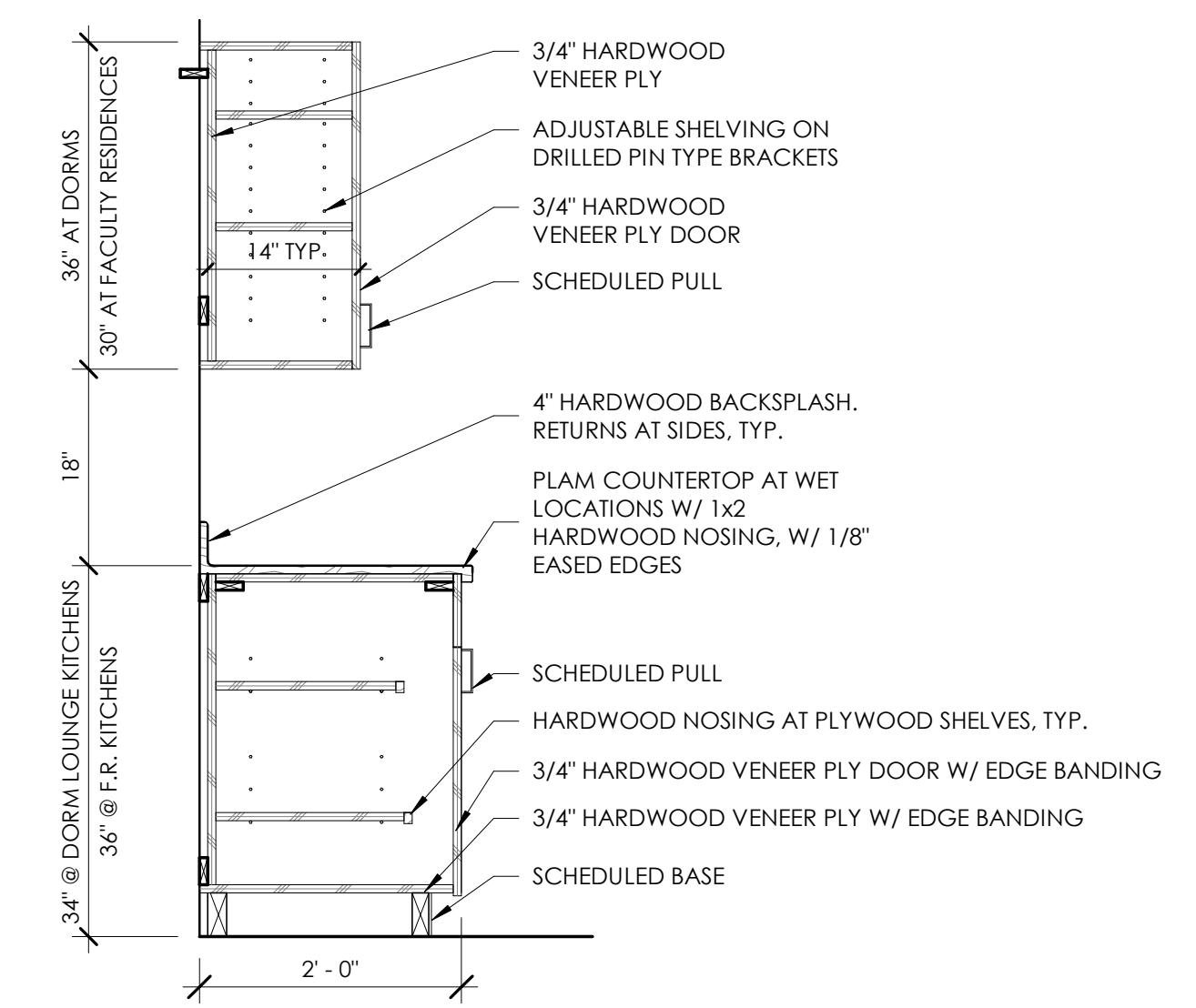
5 Bathroom Countertop Section
3/4" = 1'-0"



7 Typical Trash/Recycle Cabinet
3/4" = 1'-0"



6 Typical Common Room Cabinet
3/4" = 1'-0"



4 Typical Cabinetry Detail
3/4" = 1'-0"

EXTENT OF WORK LIMITED TO AREAS DISTURBED @ CONNECTION TO RENO. & NEW

INTERIOR FINISHES SCHEDULE EXISTING FR						
NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
E001	FR BASEMENT					
E002	FR BASEMENT					
E101	ENTRY					
E102	CONNECTOR					
E103	DINING					
E103A	CL.					
E104	KITCHEN					
E105	BATH					
E106	LIVING ROOM					
E107	HALL					
E201	BEDROOM					
E202	HALL					
E203	DEN					
E204	BATH					
E205	BEDROOM					
E206	STORAGE					

FINISH SCHEDULE NOTES:

1. ASSUME ALL GWB TO BE PAINTED.
2. ALL WOOD BASE @ FACULTY RESIDENCES TO BE PAINTED.
3. ALL WOOD BASE IN LOUNGE SPACES TO BE CLEAR FINISH WOOD.
4. SEE ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL PRODUCT/MATERIAL INFORMATION.

INTERIOR FINISHES SCHEDULE						
NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
001	MECHANICAL	SEALED CONC.	RUBBER	GWB	GWB	
002	ELECTRICAL	SEALED CONC.	RUBBER	GWB	GWB	
003	KUA STORAGE	SEALED CONC.	RUBBER	GWB	GWB	
004	F.R. STORAGE	SEALED CONC.	RUBBER	GWB	GWB	
005	HALL					
006	F.R. STORAGE	SEALED CONC.	RUBBER	GWB	GWB	
007	STUDENT STORAGE	SEALED CONC.	RUBBER	GWB	GWB	
008	LAUNDRY	SEALED CONC.	RUBBER	GWB	GWB	
010	HALL	SEALED CONC.	RUBBER	GWB	GWB	
011	CL	SEALED CONC.	RUBBER	GWB	GWB	
050	STAIR A	SEALED CONC./RUBBER	RUBBER	GWB	GWB	
051	ELEV					
101	ACC. SINGLE	LINOLEUM	RUBBER	GWB	GWB	
102	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
103	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
104	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
105	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
106	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
107	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
108	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
109	BATH	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
110	BATH	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
111	JC	LINOLEUM	RUBBER	FRP	GWB	
112	HALL	LINOLEUM	RUBBER	GWB	GWB	
113	GEAR ROOM	LINOLEUM	RUBBER	GWB	GWB	
114	WC	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
115	STORAGE	LINOLEUM	RUBBER	GWB	GWB	
116	LOBBY	PORCELAIN TILE	WOOD	GWB	GWB	
117	VESTIBULE	PORCELAIN TILE	WOOD	GWB	GWB	
118	VESTIBULE	PORCELAIN TILE	WOOD	GWB	GWB	SOME WOOD @ WALLS SEE INT. ELEVATIONS.
119	LOUNGE	CARPET TILE	WOOD	GWB	WOOD SLAT	SOME WOOD @ WALLS SEE INT. ELEVATIONS.
120	KITCHEN	PORCELAIN TILE	WOOD	GWB	WOOD SLAT	
121	BATH	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
122	HALL	LINOLEUM	RUBBER	GWB	GWB	
123	HALL	LINOLEUM	RUBBER	GWB	GWB	
124	HALL	LINOLEUM	RUBBER	GWB	GWB	
150	STAIR A	RUBBER	RUBBER	GWB	GWB	
151	ELEV					
160	STAIR B	RUBBER	RUBBER	GWB	GWB	
201	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
202	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
203	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
204	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
205	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
206	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
207	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
208	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
209	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
210	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
211	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
212	BATH	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
213	JC	LINOLEUM	RUBBER	FRP	GWB	
215	LOUNGE	CARPET TILE	WOOD	GWB	GWB	
216	BATH	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
217	HALL	LINOLEUM	RUBBER	GWB	GWB	
218	CL	LINOLEUM	RUBBER	GWB	GWB	
223	HALL	LINOLEUM	RUBBER	GWB	GWB	
250	STAIR A	RUBBER	RUBBER	GWB	GWB	
251	ELEV					
260	STAIR B	RUBBER	RUBBER	GWB	GWB	
A101	HALL	WOOD	WOOD	GWB	GWB	
A101A	CL.	WOOD	WOOD	GWB	GWB	
A101B	CL.	WOOD	WOOD	GWB	GWB	
A102	HALL	WOOD	WOOD	GWB	GWB	
A102A	CL.	WOOD	WOOD	GWB	GWB	
A104	BATH	CT	CT WAINSCOT	GWB	GWB	
A105	BEDROOM	WOOD	WOOD	GWB	GWB	
A105A	CL.	WOOD	WOOD	GWB	GWB	
A106	LIVING ROOM	WOOD	WOOD	GWB	GWB	
A107	KITCHEN-DINING	WOOD	WOOD	GWB	GWB	
A108	PANTRY	WOOD	WOOD	GWB	GWB	
A201	BEDROOM	WOOD	WOOD	GWB	GWB	
A201A	CL.	WOOD	WOOD	GWB	GWB	
A203	FLEX SPACE	WOOD	WOOD	GWB	GWB	
A203A	CL.	WOOD	WOOD	GWB	GWB	
A204	HALL	WOOD	WOOD	GWB	GWB	
A204A	LIN.	WOOD	WOOD	GWB	GWB	
A205	W/D	LINOLEUM	RUBBER	GWB	GWB	
A206	CL.	WOOD	WOOD	GWB	GWB	
A207	BATH	CT	CT WAINSCOT	GWB	GWB	
A208	BEDROOM	WOOD	WOOD	GWB	GWB	
A209	BATH	CT	CT WAINSCOT	GWB	GWB	
A210	BEDROOM	WOOD	WOOD	GWB	GWB	
A210A	CL.	WOOD	WOOD	GWB	GWB	
B101	ENTRY	PORCELAIN TILE	WOOD	GWB	GWB	
B101A	CL	PORCELAIN TILE	WOOD	GWB	GWB	
B102	FLEX SPACE	PORCELAIN TILE	WOOD	GWB	GWB	
B103	HALL	WOOD	WOOD	GWB	GWB	
B103A	CL	WOOD	WOOD	GWB	GWB	
B103B	CL	WOOD	WOOD	GWB	GWB	
B104	BATH	CT	CT WAINSCOT	GWB	GWB	
B105	OFFICE	WOOD	WOOD	GWB	GWB	
B105A	CL	WOOD	WOOD	GWB	GWB	
B106	LIVING-DINING	WOOD	WOOD	GWB	GWB	
B107	KITCHEN	WOOD	WOOD	GWB	GWB	
B201	BEDROOM	WOOD	WOOD	GWB	GWB	
B202	BEDROOM	WOOD	WOOD	GWB	GWB	
B203	HALL	WOOD	WOOD	GWB	GWB	
B203A	CL	WOOD	WOOD	GWB	GWB	
B204	BATH	CT	CT WAINSCOT	GWB	GWB	
B205	BEDROOM	WOOD	WOOD	GWB	GWB	
B206	BATH	CT	CT WAINSCOT	GWB	GWB	
B206A	CL	WOOD	WOOD	GWB	GWB	
B207	W.I. CLOSET	WOOD	WOOD	GWB	GWB	



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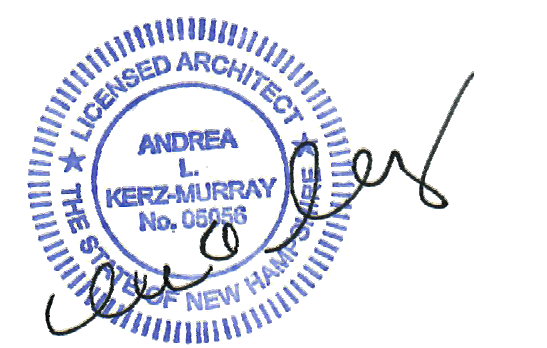
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DATE ISSUED: 05/15/23
Drawn: JG
Checked: SR

REVISIONS:

#	Date	Description
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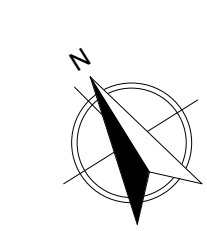
PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**KILTON
INTERIOR FINISHES
SCHEDULE**

AK-10.1



FLOOR PLAN LEGEND

	EXISTING WALL
	EXISTING CONCRETE WALL
	EXISTING MASONRY WALL
	NEW WALL/NEW WALL INFILL



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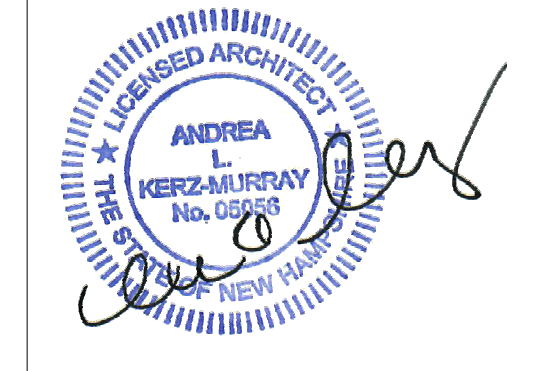
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KUA
KILTON/WELCH
DORMITORIES

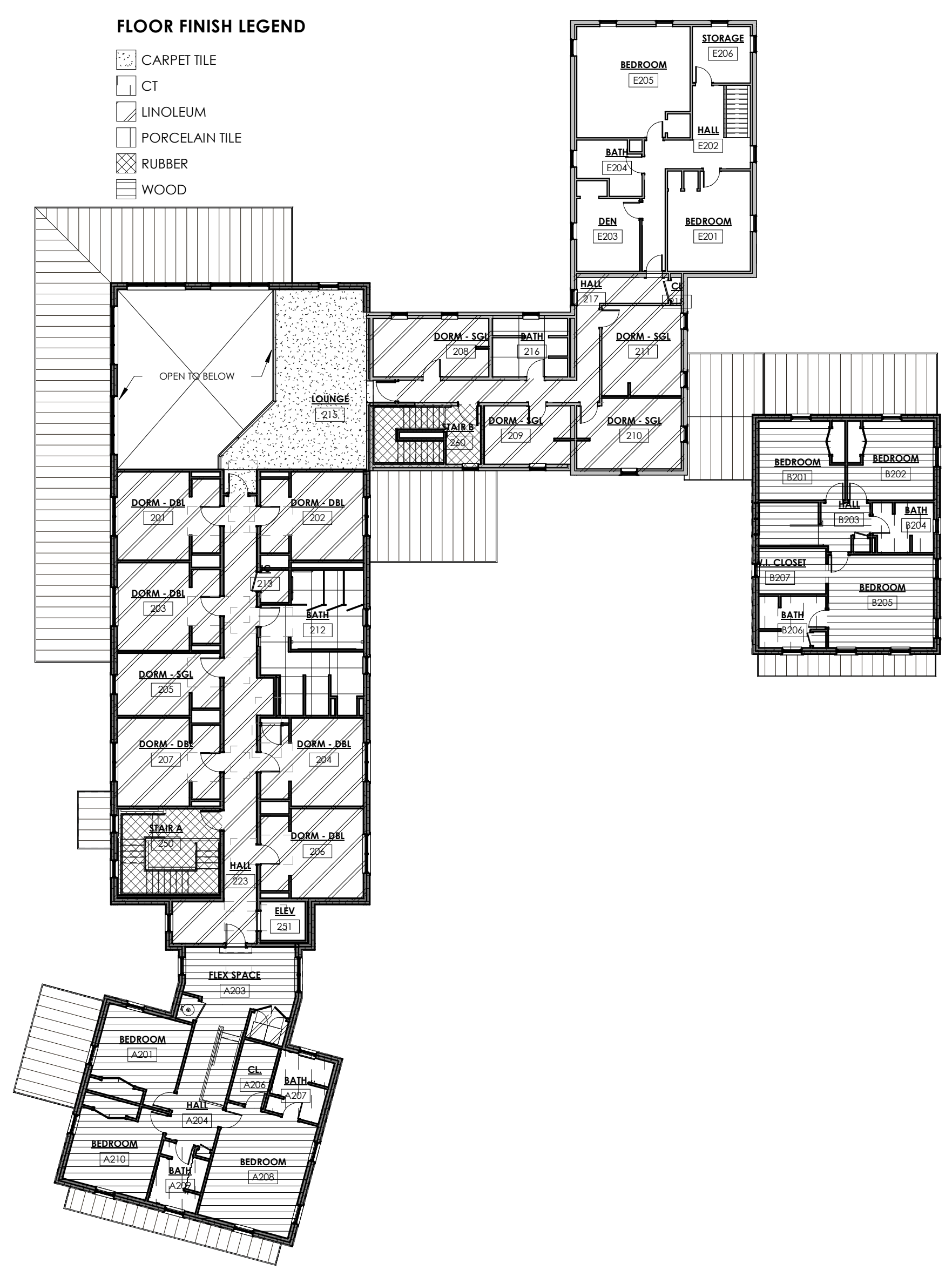
Main Street,
Meriden, NH 03770

KILTON
FLOOR FINISH
PLANS

AK-10.1a

FLOOR FINISH LEGEND

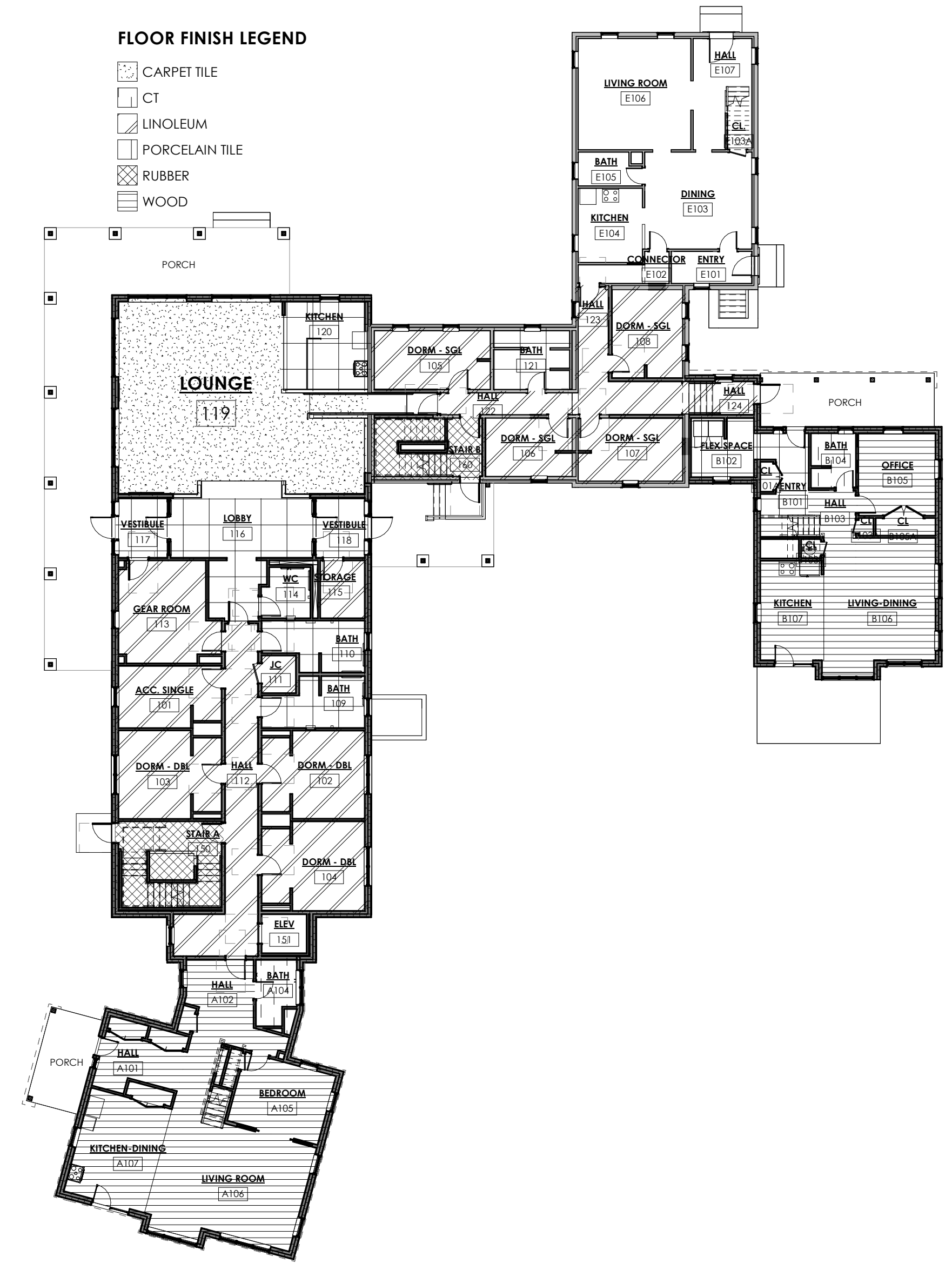
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	CT
	LINOLEUM
	PORCELAIN TILE
	RUBBER
	WOOD



3 Second Floor Finish Plan
1/16" = 1'-0"

FLOOR FINISH LEGEND

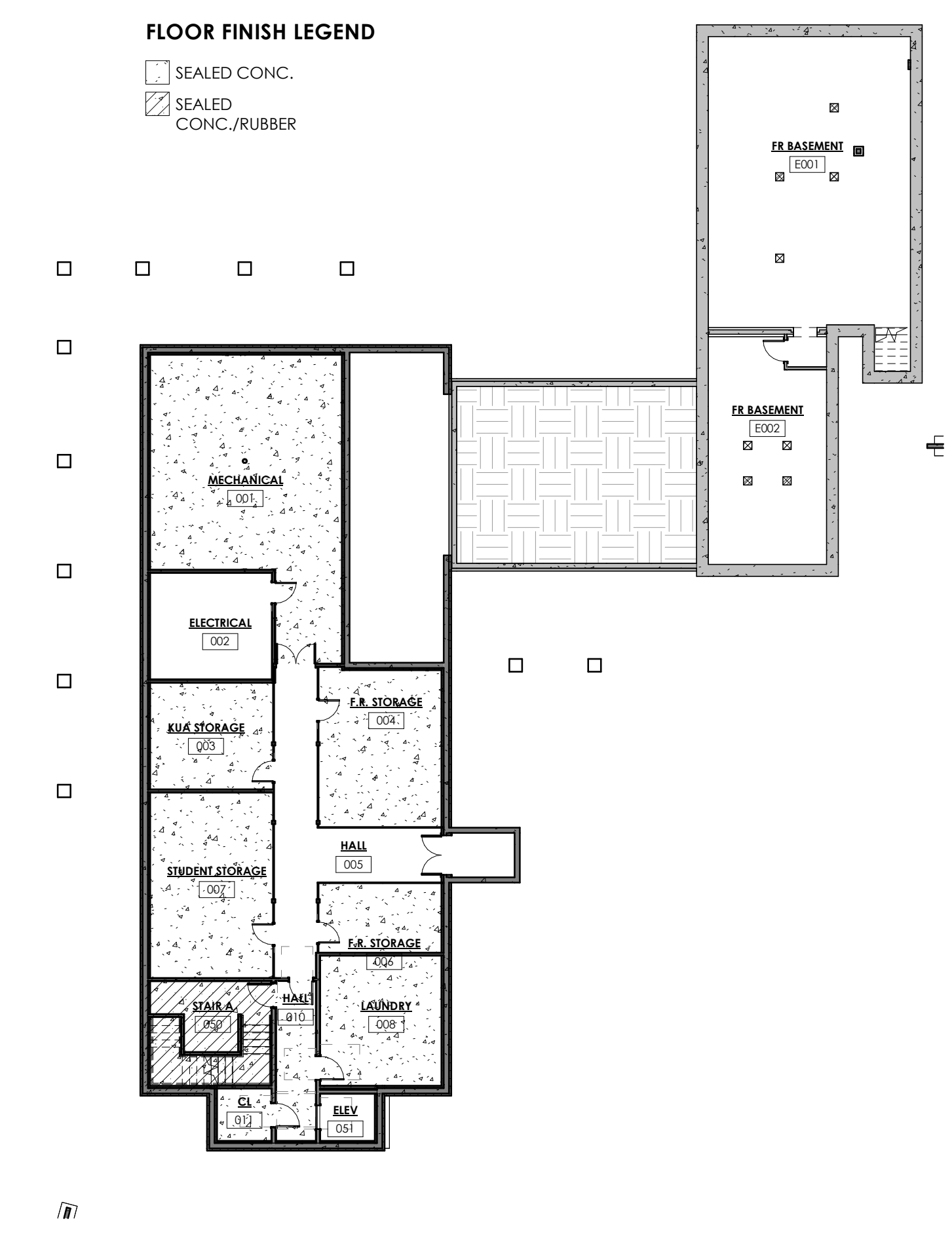
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	LINOLEUM
	PORCELAIN TILE
	RUBBER
	WOOD



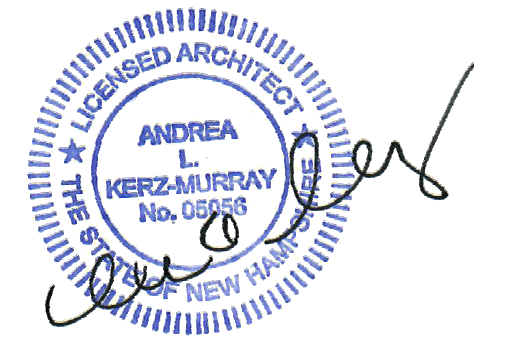
2 First Floor Finish Plan
1/16" = 1'-0"

FLOOR FINISH LEGEND

	SEALED CONC.
	SEALED CONC./RUBBER



1 Basement Finish Plan
1/16" = 1'-0"



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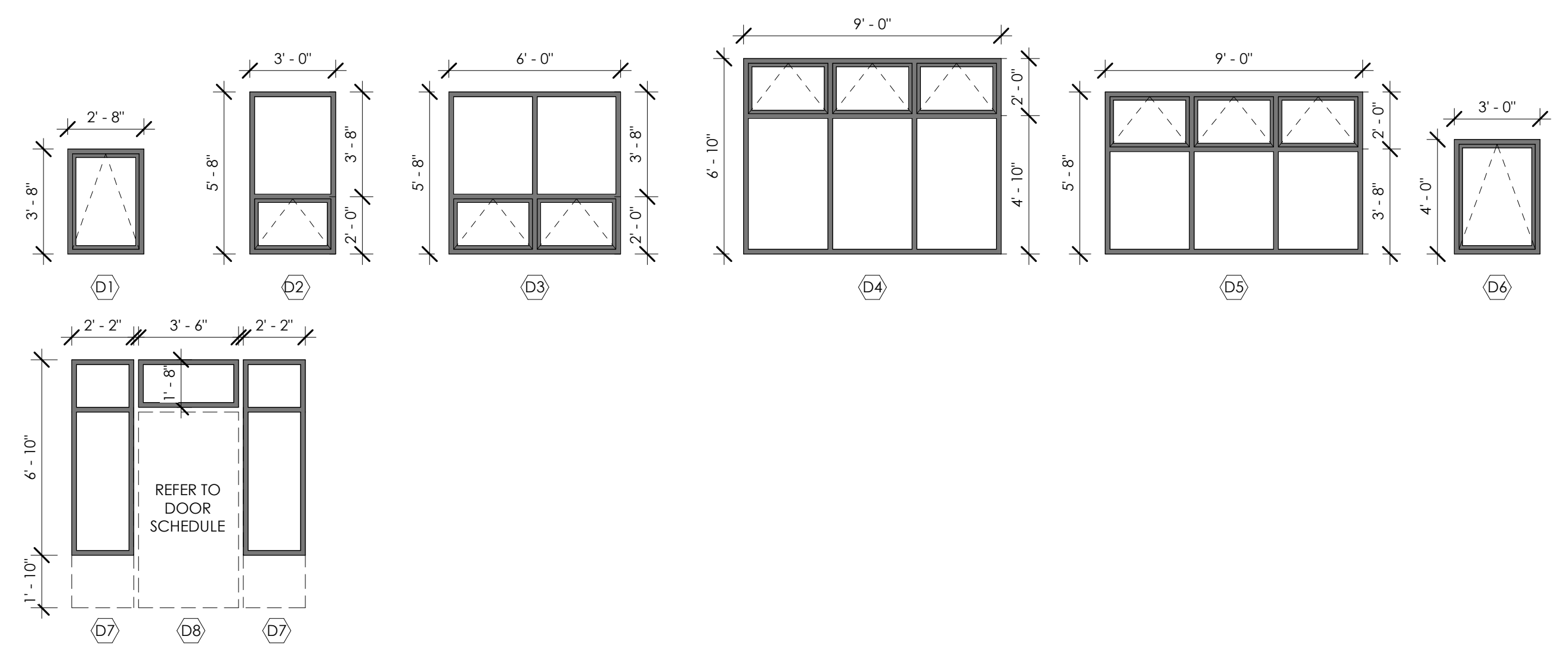
#	Date	Description
1	04/12/23	Addendum 1; Bid Set 1

PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**
Main Street,
Meriden, NH 03770
**KILTON
WINDOW
SCHEDULE**

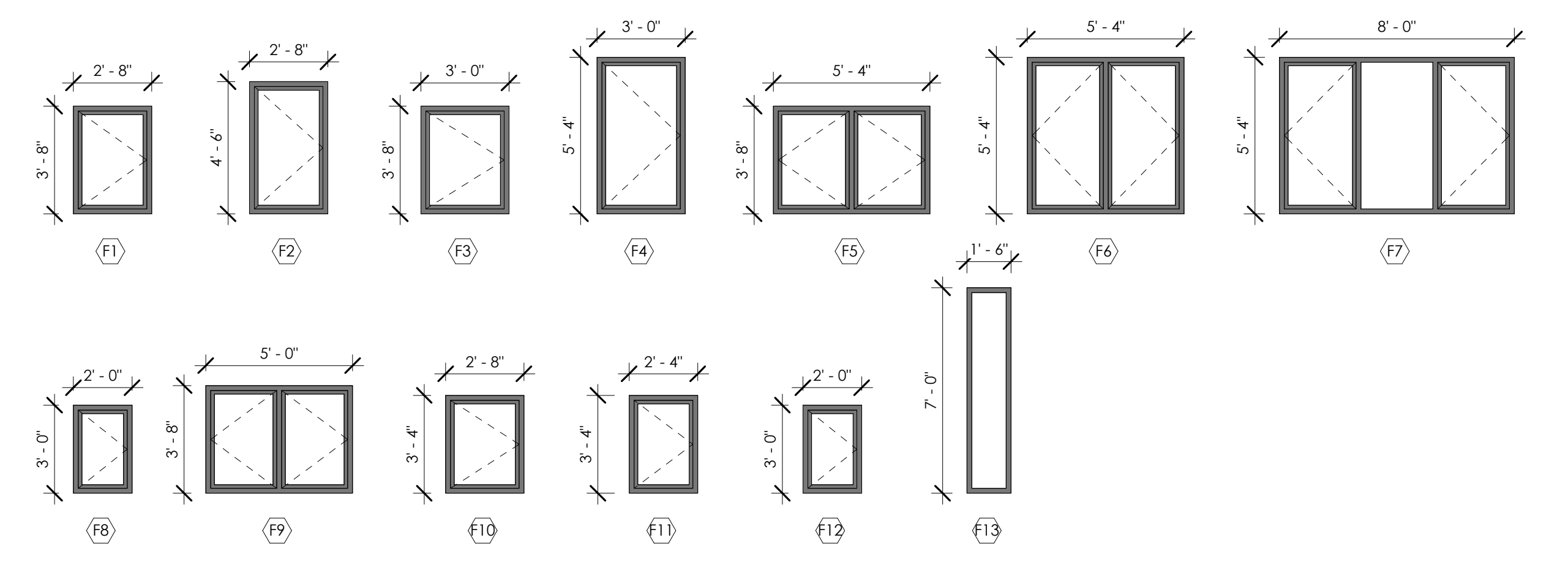
AK-10.2

WINDOW SCHEDULE- DORMS						
TYPE	MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS	
D1	FIXED / AWNING UNIT	2'-8"	3'-8"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D2	FIXED / AWNING UNIT	3'-0"	5'-8"	2'-6"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D3	FIXED / AWNING UNIT	6'-0"	6'-10"	2'-6"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D4	FIXED / AWNING UNIT	9'-0"	6'-10"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D5	FIXED / AWNING UNIT	9'-0"	5'-8"	2'-6"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D6	FIXED / AWNING UNIT	3'-0"	4'-0"	3'-0"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D7	FIXED SIDELIGHT	2'-2"	6'-10"	1'-10"	ENTRY DOOR SIDELIGHT - TRIPLE GL. AT EXT. DOUBLE GL. AT INT.	
D8	FIXED TRANSOM	3'-6"	1'-8"	7'-0"	ENTRY DOOR TRANSOM - TRIPLE GL. AT EXT. DOUBLE GL. AT INT.	



ENTRY VESTIBULE GLAZING
Window Elevation Types- Dorms
1/4" = 1'-0"

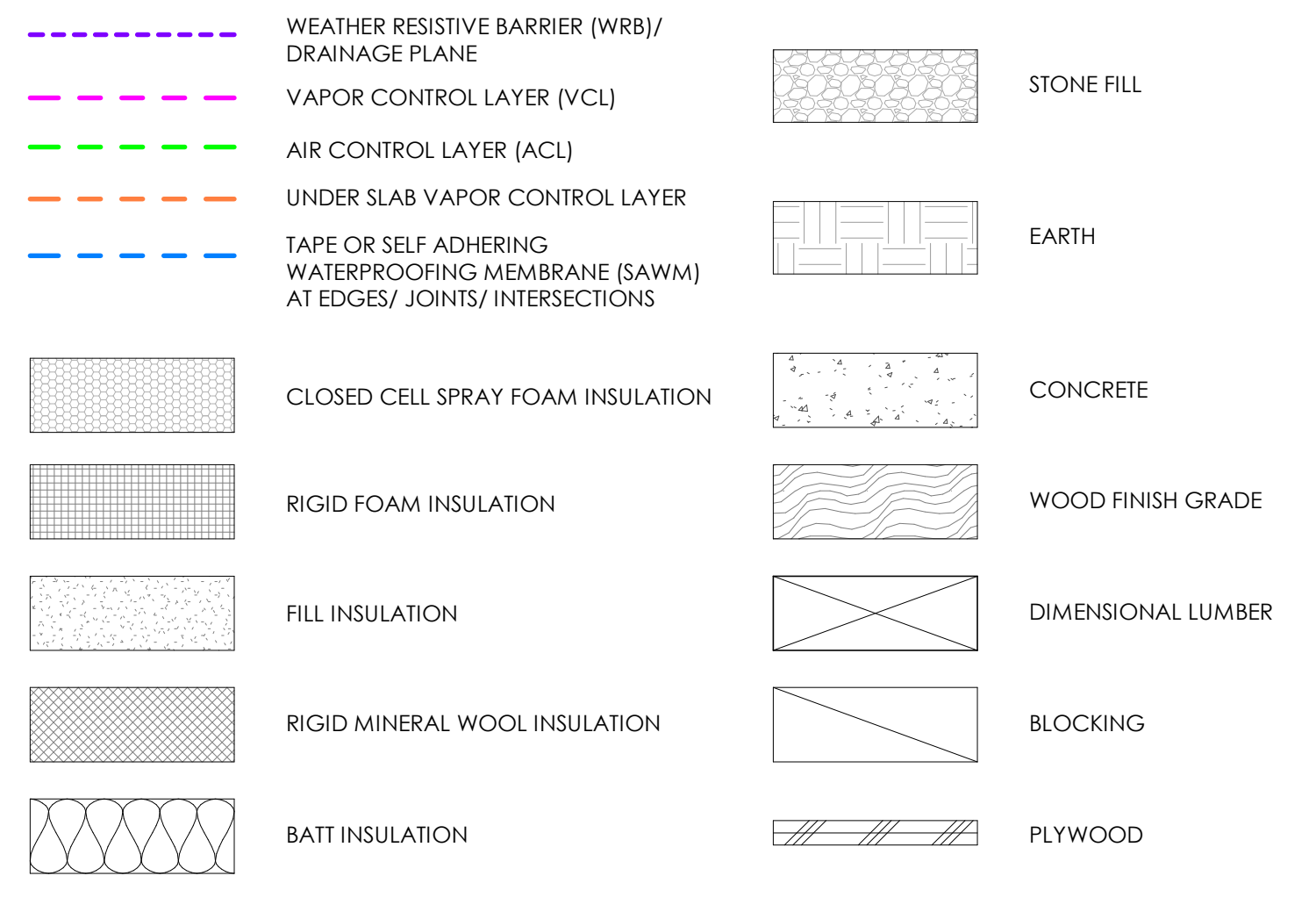
WINDOW SCHEDULE- FACULTY RESIDENCE A + B						
TYPE	MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS	
F1	CASEMENT	2'-8"	3'-8"	3'-4"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F2	CASEMENT	2'-8"	4'-6"	2'-6"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F3	CASEMENT	3'-0"	3'-8"	3'-4"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F4	CASEMENT	3'-0"	5'-4"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F5	CASEMENT	5'-4"	3'-8"	3'-4"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F6	CASEMENT	5'-4"	5'-4"	1'-8"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F7	CASEMENT	8'-0"	5'-4"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F8	CASEMENT	2'-0"	3'-0"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F9	CASEMENT	5'-0"	3'-8"	5"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F10	CASEMENT	2'-8"	3'-4"	3'-8"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F11	CASEMENT	2'-4"	3'-4"	3'-8"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F12	CASEMENT	2'-0"	3'-0"	4'-6"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
F13	FIXED SIDELIGHT	1'-6"	7'-0"	0"	DOOR SIDELIGHT	



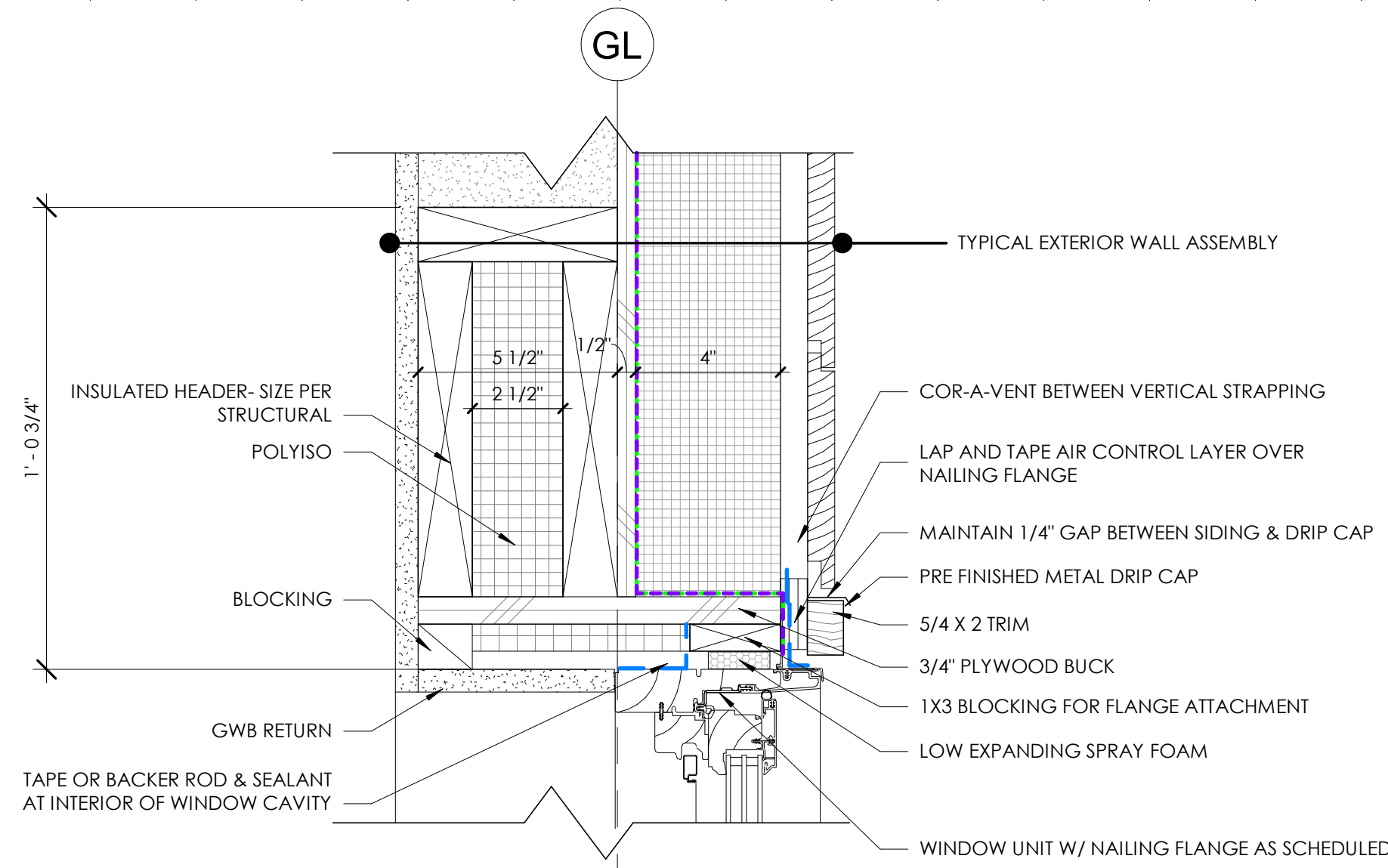
Window Elevation Types- F.R.
1/4" = 1'-0"

WINDOW SCHEDULE- EXISTING BUILDING						
TYPE	MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS	
R1	FIXED / AWNING UNIT	2'-5"	5'-4 1/2"	<varies>	V.J.F.	
R2	FIXED / AWNING UNIT	2'-5 1/2"	4'-11 3/4"	<varies>	V.J.F.	
R7	FIXED / AWNING UNIT	2'-5 1/2"	2'-5 1/2"	3'-7 1/4"	V.J.F.	

SECTION DETAILS AND MATERIALS LEGEND

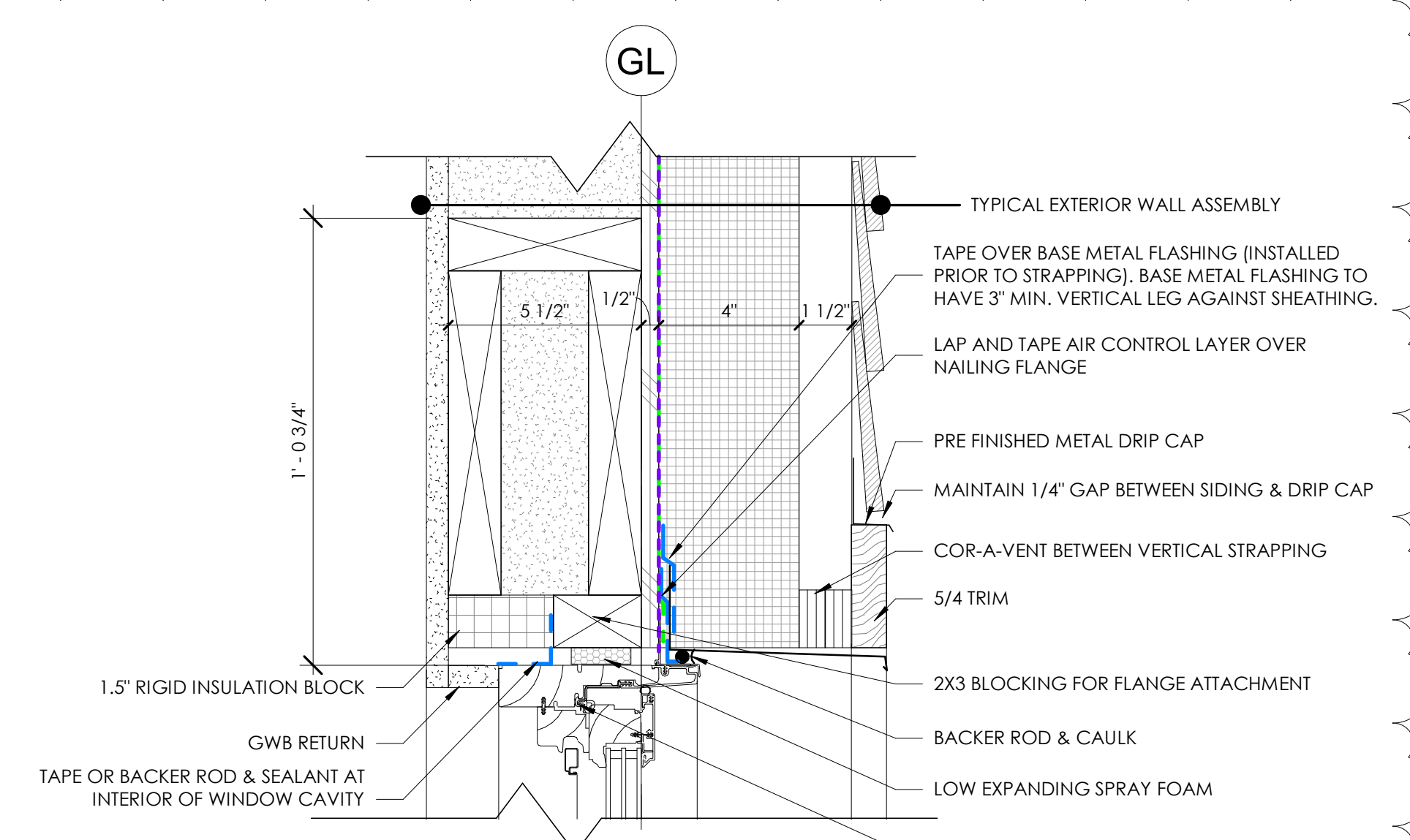


WINDOW DETAILS TO BE UPDATED AND COORDINATED WITH SELECTED WINDOW MANUFACTURER ACCURATE DORWIN

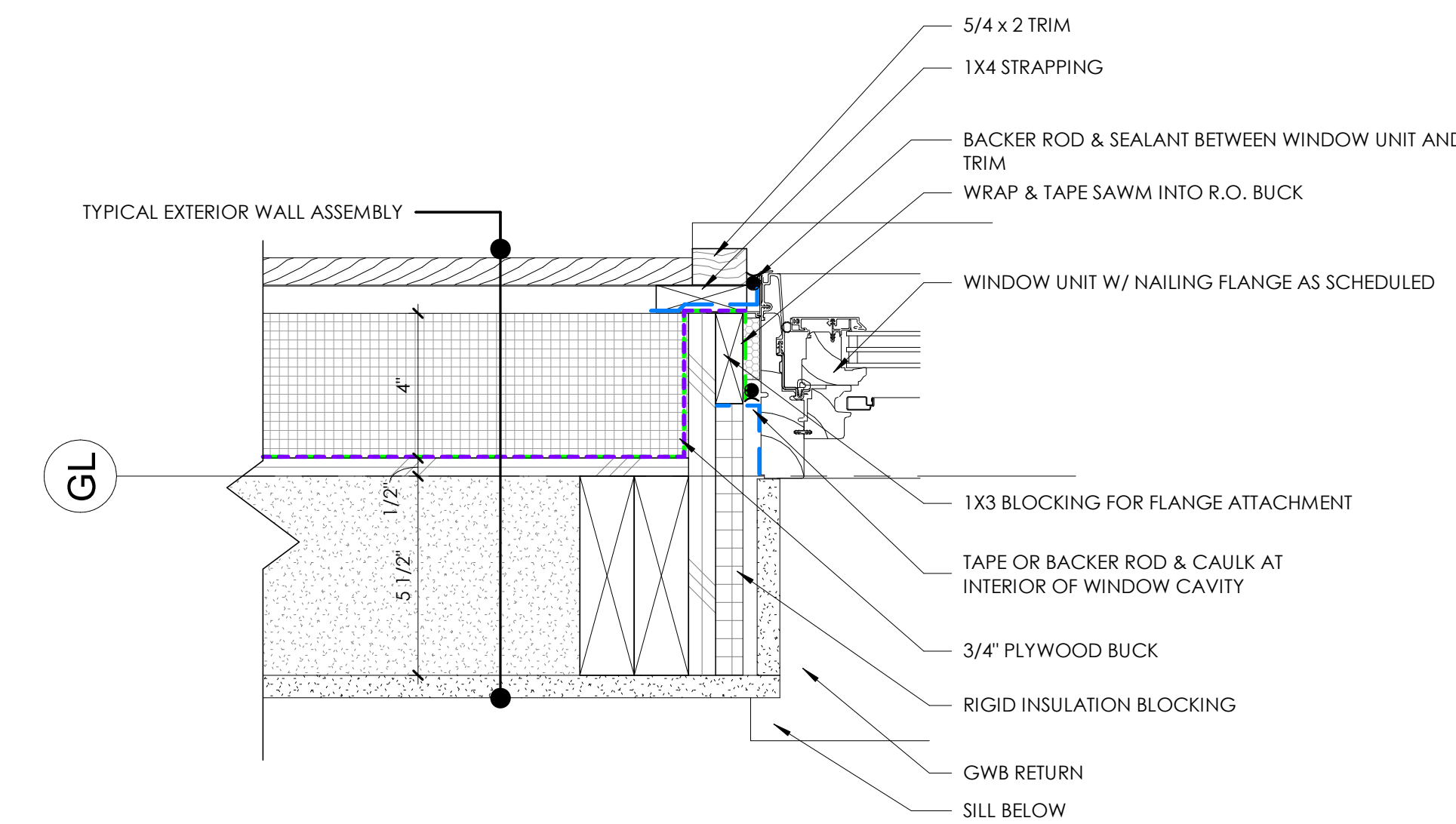


WINDOW HEAD OUTER INSTALL W/ 3/4" PLYWOOD BUCK

2 Typical Window Head Details
3" = 1'-0"

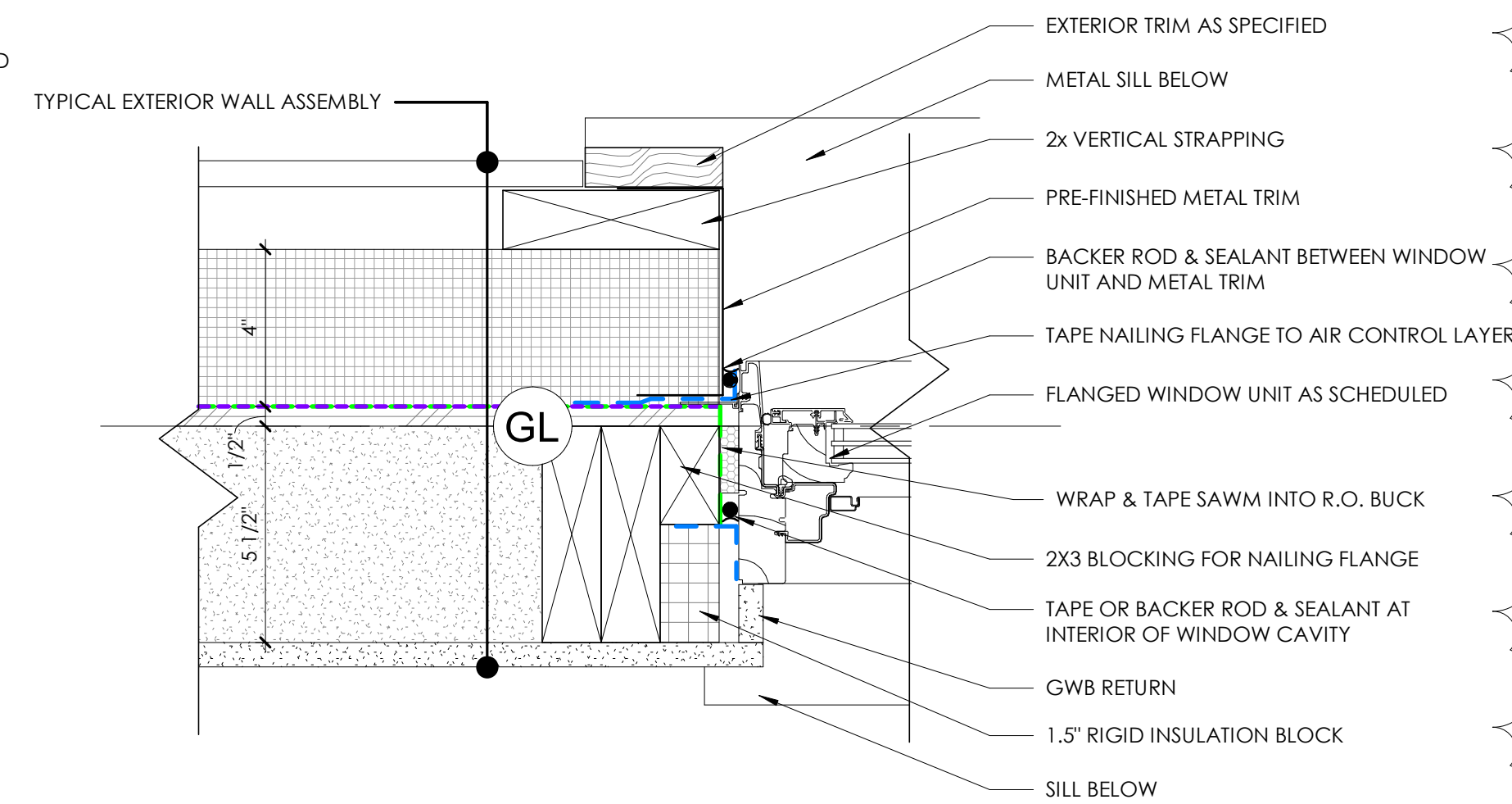


WINDOW HEAD INNER INSTALL AT CLAPBOARD SIDING

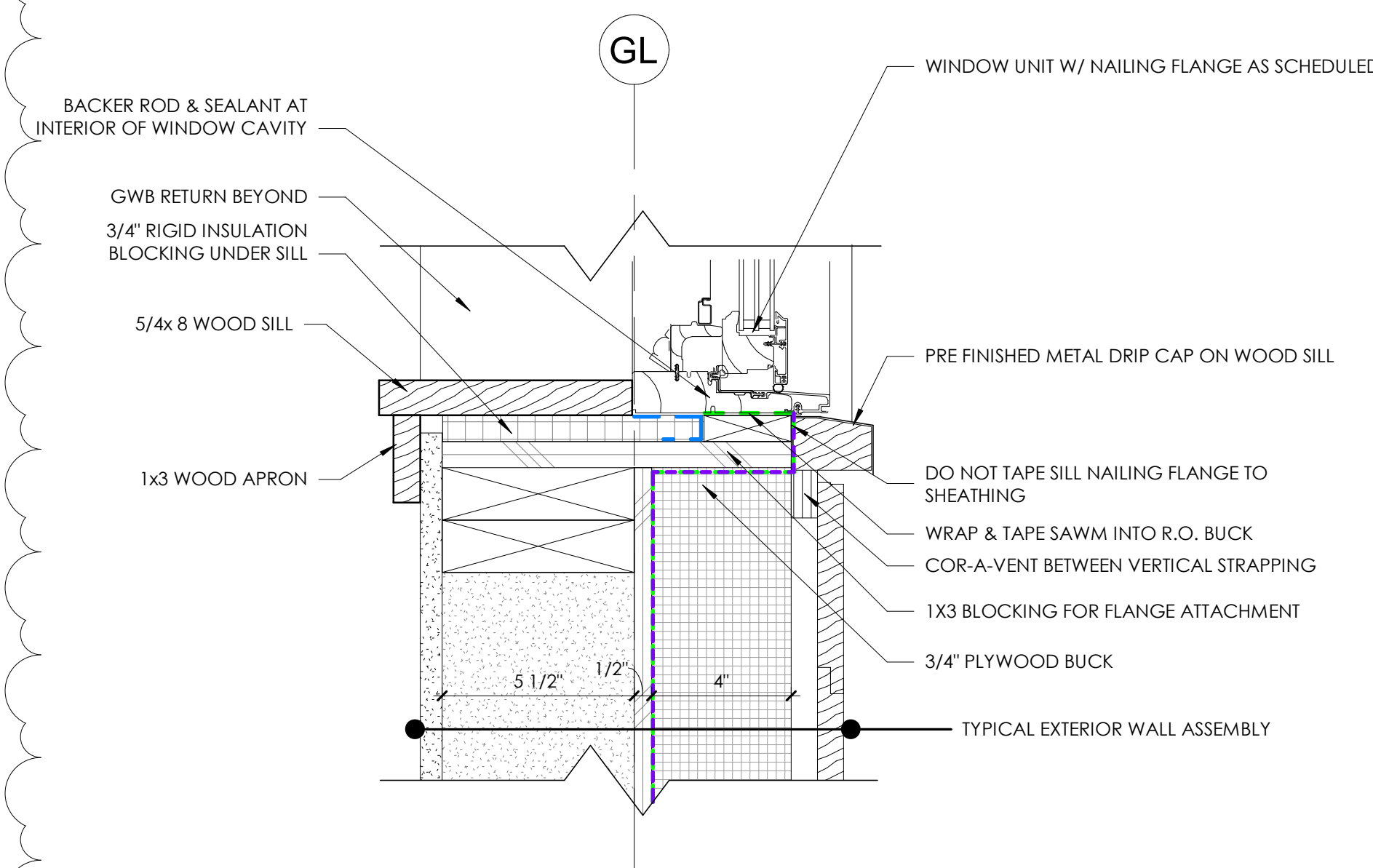


WINDOW JAMB OUTER INSTALL W/ 3/4" PLYWOOD BUCK

3 Typical Window Jamb Details
3" = 1'-0"

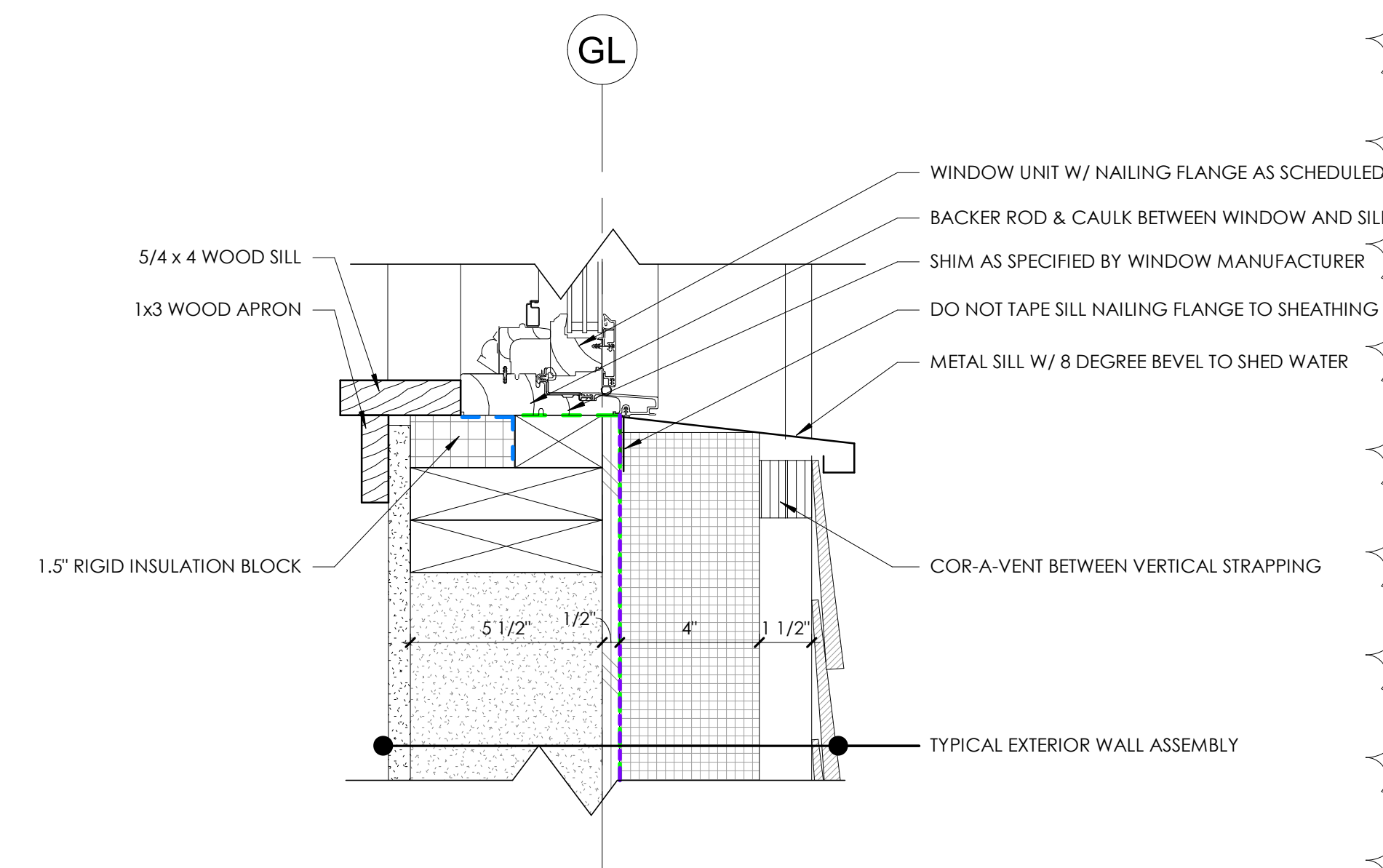


WINDOW JAMB INNER INSTALL FLAT TRIM

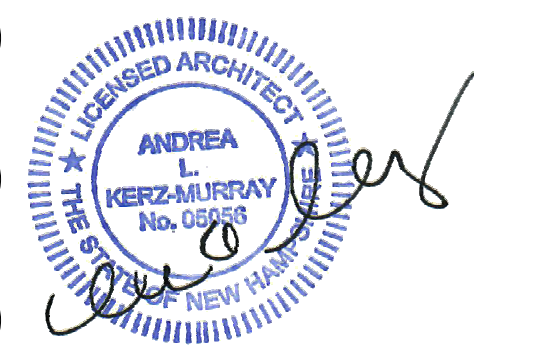


WINDOW SILL OUTER INSTALL W/ 3/4" PLYWOOD BUCK

1 Typical Window Sill Details
3" = 1'-0"



WINDOW SILL INNER INSTALL W/ 2X3 BLOCKING



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REVISIONS:

#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**KILTON
WINDOW DETAILS**

AK-10.3



VERMONT INTEGRATED ARCHITECTURE, PC

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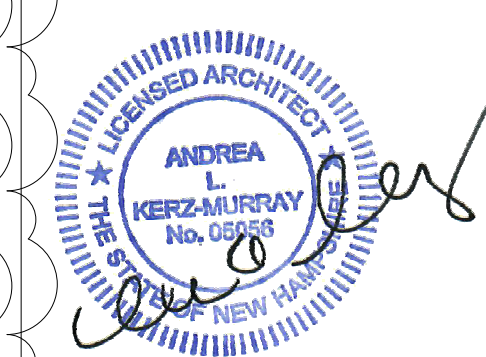
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DATE ISSUED: 05/15/23 Drawn: JG Checked: SR

REVISIONS:

Table with columns: #, Date, Description. Includes revision 1: 04/12/23 Addendum 1; Bid Set 1 and revision 2: 05/15/23 Scope Changes to Bid Set #1

PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

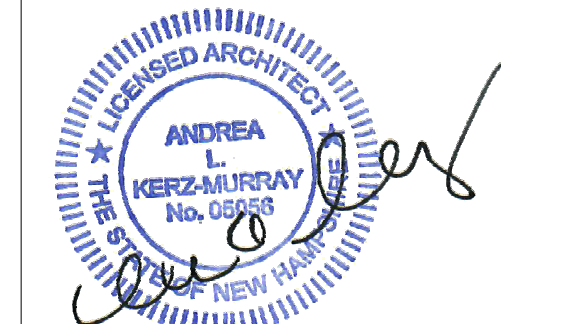
Main Street, Meriden, NH 03770

KILTON DOOR SCHEDULE

AK-10.4

EXTERIOR DOOR SCHEDULE table with columns: MARK, INTO ROOM, DOOR, SIZE, FRAME, LBL., HARDWARE SETS, COMMENTS

INTERIOR DOOR SCHEDULE table with columns: MARK, INTO ROOM, DOOR, SIZE, FRAME, LBL., HARDWARE SETS, COMMENTS



DATE ISSUED: 05/15/23
Drawn: JG
Checked: SR

REVISIONS:

#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES
Main Street,
Meriden, NH 03770
KILTON
DOOR SCHEDULE
& DETAILS

AK-10.5

INTERIOR DOOR SCHEDULE

MARK	INTO ROOM			DOOR			FRAME			LBL.	HARDWARE SETS											COMMENTS				
	NAME	NUMBER	ELEVATION TYPE	MATERIAL/ FINISH	W.	H.	TH.	FRAME ELEVATION	FRAME MATERIAL		THRESHOLD MATERIAL	U.L. RATING MIN./HRS.	LOCK FUNCTION	Locket/Trim	Card Reader	Closer	Fire Exit Device	Alarmed	ADA Opener	Stoppers	Threshold		Weather Strip	Mag. Hold-Open	Smoke Seal	
A204A	HALL	A204	F	WD/CLR	1'-9"	6'-8"	1 3/8"	P1	WD			SERVICE	X													
A205	W/D	A205	F	WD/CLR	5'-0"	6'-8"	1 3/8"	P1	WD			PUSH/PULL														
A206	CL.	A206	F	WD/CLR	2'-6"	6'-8"	1 3/8"	P1	WD			PUSH/PULL														
A207	BATH	A207	F	WD/CLR	2'-6"	6'-8"	1 3/8"	P1	WD			PRIVACY	X													
A208	BEDROOM	A208	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PASSAGE	X								X					
A209	BATH	A209	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PRIVACY	X								X					
A210	BEDROOM	A210	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PASSAGE	X													
A210A	CL.	A210A	F	WD/CLR	5'-0"	6'-8"	1 3/8"	P1	WD			PUSH/PULL														
FACULTY RES. B																										
B101A	CL	B101A	F	WD/CLR	4'-0"	6'-8"	1 3/8"	P1	WD			PUSH/PULL														
B103A	CL	B103A	F	WD/CLR	2'-0"	6'-8"	1 3/8"	P1	WD			PUSH/PULL														
B103B	HALL	B103	F	WD/CLR	2'-0"	6'-8"	1 3/8"	P1	WD			PUSH/PULL														
B104	BATH	B104	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PRIVACY	X								X					
B105	OFFICE	B105	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			OFFICE	X								X					
B105A	CL	B105A	F	WD/CLR	6'-0"	6'-8"	1 3/8"	P1	WD			PUSH/PULL														
B201	BEDROOM	B201	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PASSAGE	X													
B201A	BEDROOM	B201	A	WD/CLR	4'-0"	6'-8"	1 3/8"	H1	HM			PUSH/PULL									X					
B202	BEDROOM	B202	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PASSAGE	X													
B202A	BEDROOM	B202	A	WD/CLR	4'-0"	6'-8"	1 3/8"	H1	HM			PUSH/PULL									X					
B203	CL	B203A	F	WD/CLR	2'-0"	6'-8"	1 3/8"	P1	WD			SERVICE	X													
B204	BATH	B204	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PRIVACY	X								X					
B205	BEDROOM	B205	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PASSAGE	X													
B205A	BATH	B204	F	WD/CLR	2'-0"	6'-8"	1 3/8"	P1	WD			PASSAGE	X													
B206	BATH	B206	F	WD/CLR	2'-8"	6'-8"	1 3/8"	P1	WD			PRIVACY	X								X					

DOOR SCHEDULE NOTES:

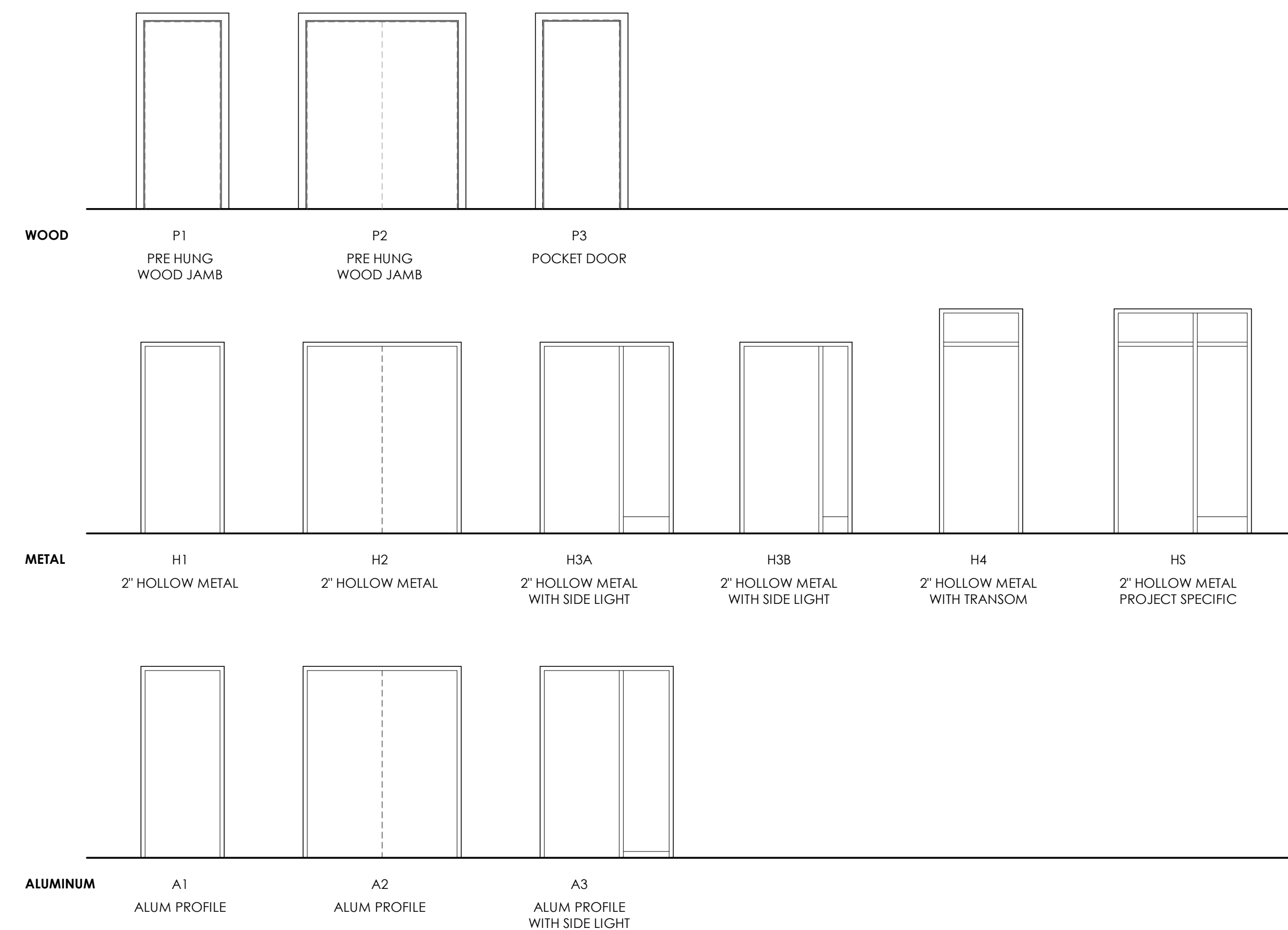
- ALL DIMENSIONS TO BE VERIFIED IN FIELD
- ALL GLAZING TO BE TEMPERED AS REQUIRED BY CODE, TYP.
- ALL GLAZED DOORS REQUIRING CRASH BAR TO HAVE AN INTERMEDIATE RAIL THAT OBSCURES THE CRASH BAR WHEN LOOKING AT THE PULL SIDE OF THE DOOR. INTERMEDIATE RAIL TO BE INTEGRAL TO TO FACTORY ASSEMBLY OF THE DOOR.
- INCLUDE THERMALLY BROKEN THRESHOLDS AT ALL EXTERIOR DOORS AND INTERIOR VESTIBULE DOORS

MATERIAL ABBREVIATIONS:

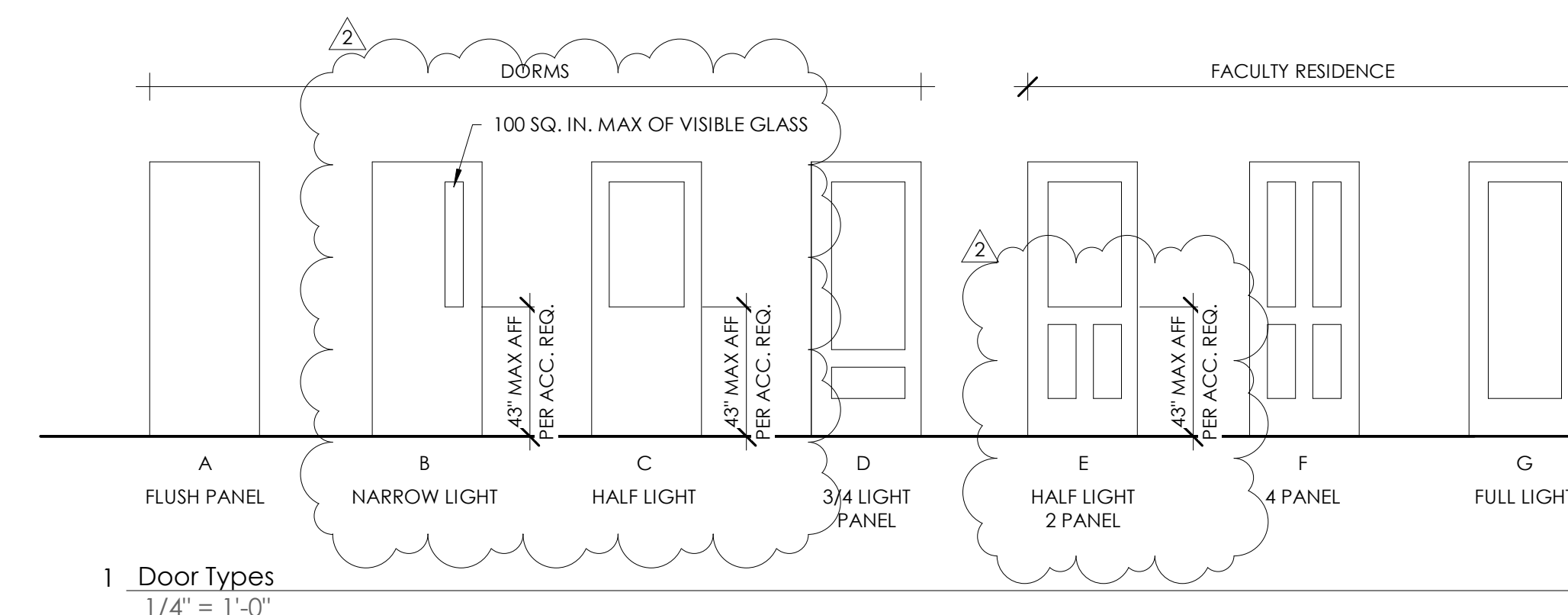
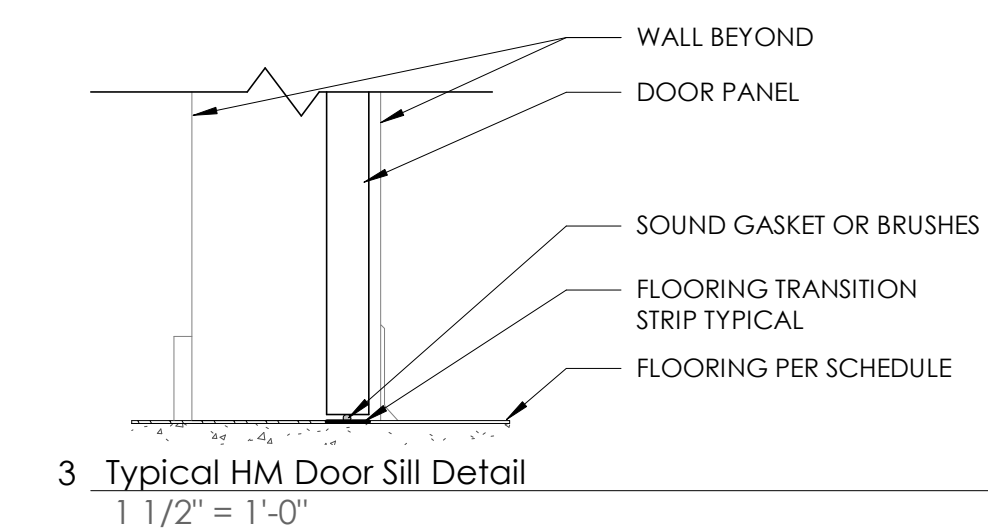
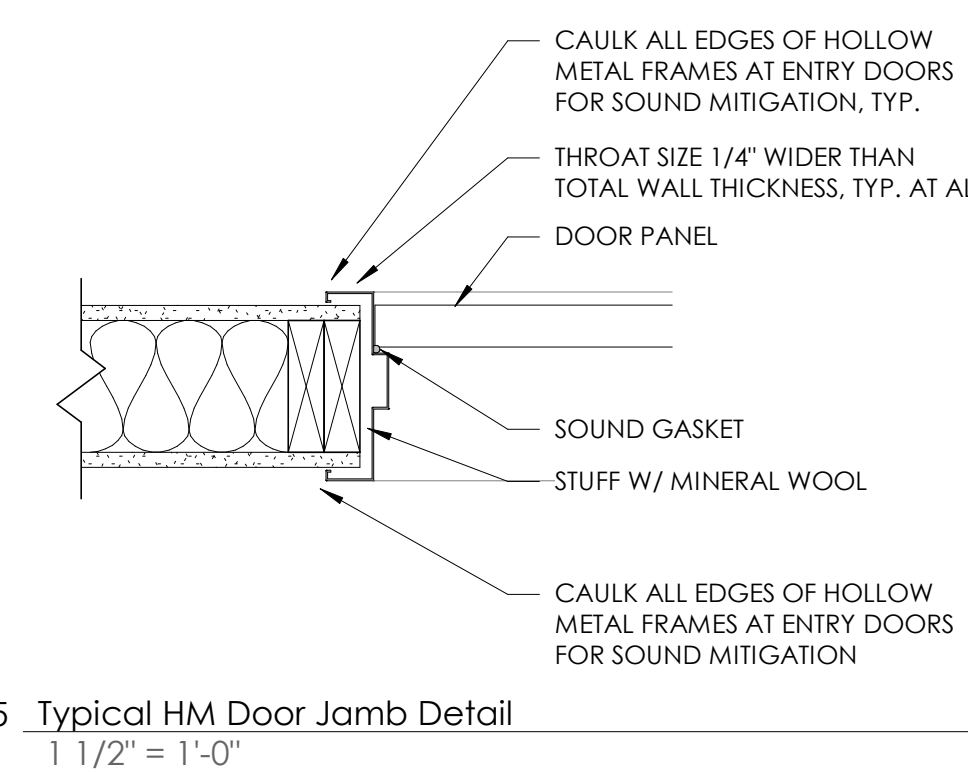
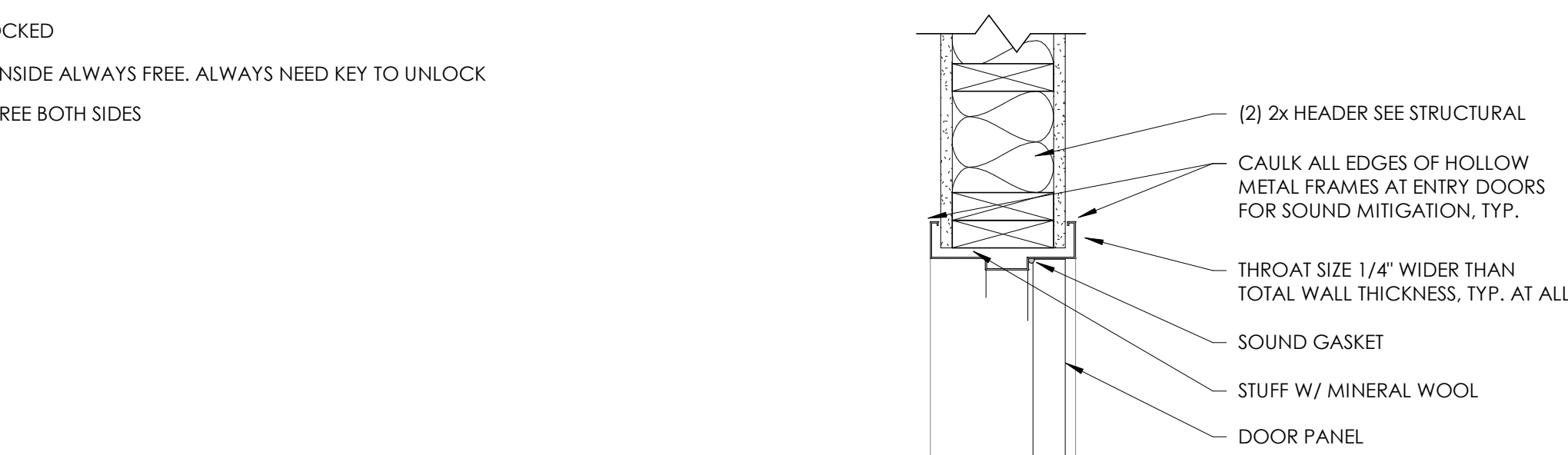
- | | |
|------------|------------------|
| AL or ALUM | Aluminum |
| CLD | Clad |
| CLR | Clear |
| FG | Fiberglass |
| HM | Hollow Metal |
| MTL | Metal |
| PTD | Painted |
| TB | Thermally Broken |
| WD | Wood |

DOOR LOCKING FUNCTION KEY:

- ENTRANCE/EXIT:** INSIDE ALWAYS UNLOCKED, OUTSIDE UNLOCKED BY KEY/SWIPE CARD
- OFFICE:** INSIDE LEVER ALWAYS FREE, LOCK BY KEY OUTSIDE
- PRIVACY:** LOCKED BY PUSH BUTTON ON INSIDE AND RELEASED FROM OUTSIDE BY EMERGENCY TOOL
- PASSAGE:** BOTH LEVERS ALWAYS UNLOCKED
- SERVICE:** OUTSIDE UNLOCKED BY KEY, INSIDE ALWAYS FREE. ALWAYS NEED KEY TO UNLOCK
- PUSH/PULL:** NO LATCHBOLT, ALWAYS FREE BOTH SIDES



2 Frame Types
1/4" = 1'-0"



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MECH./PLUMBING ENGINEER

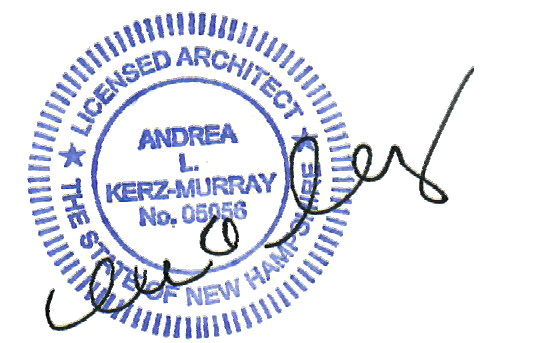
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DATE ISSUED: 05/15/23
Drawn: JG
Checked: SR

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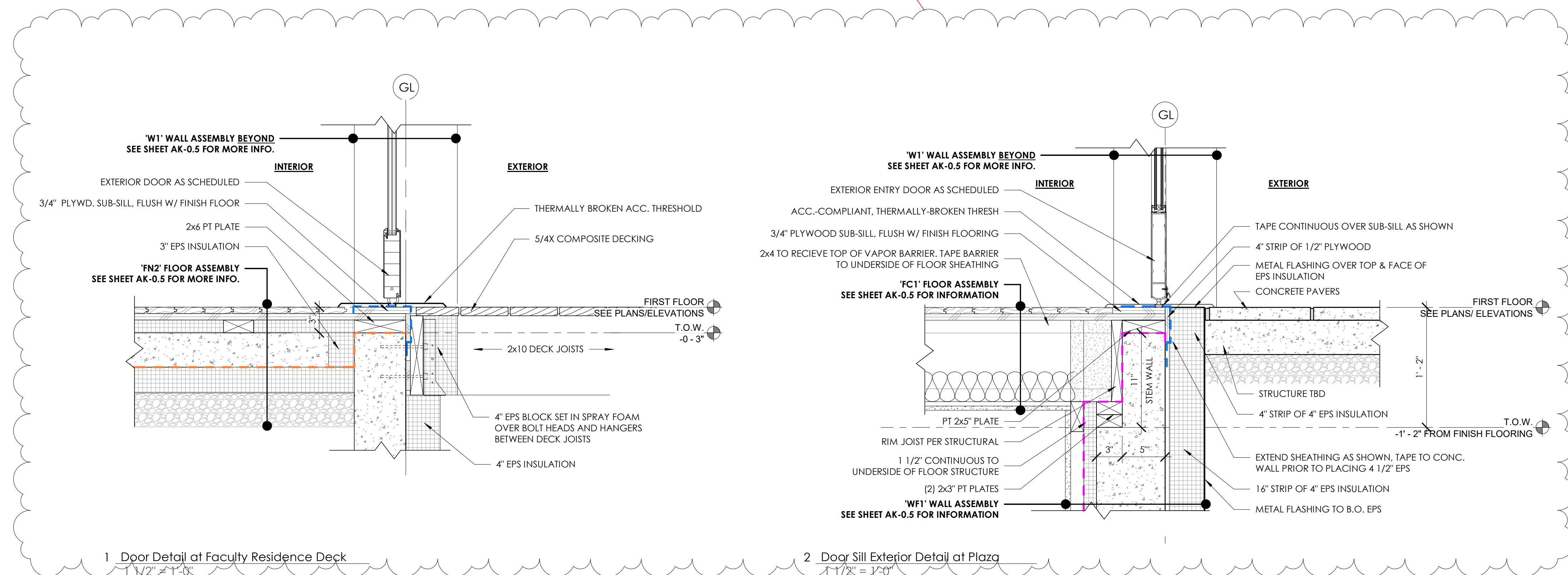
**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**KILTON
DOOR DETAILS**

AK-10.6

**DOOR DETAILS TO BE UPDATED AND COORDINATED WITH
SELECTED DOOR MANUFACTURER**



J. WOOD FRAMING NOTES

- UNLESS OTHERWISE SPECIFIED, EACH PIECE OF LUMBER SHALL BEAR THE GRADE MARK, STAMP, OR OTHER IDENTIFYING MARKS INDICATING GRADES OF MATERIAL, AND RULES OR STANDARDS UNDER WHICH PRODUCED. SUCH IDENTIFYING MARKS ON A MATERIAL SHALL BE IN ACCORDANCE WITH THE RULE OR STANDARD UNDER WHICH MATERIAL IS PRODUCED, INCLUDING REQUIREMENTS FOR QUALIFICATIONS AND AUTHORITY OF THE INSPECTION ORGANIZATION. USAGE OF AUTHORIZED IDENTIFICATION, AND INFORMATION INCLUDED IN THE IDENTIFICATION. THE INSPECTION AGENCY FOR LUMBER SHALL BE APPROVED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARDS COMMITTEE, TO GRADE SPECIES USED.
- PROTECT LUMBER AND OTHER PRODUCTS FROM DAMPNESS BOTH DURING AND AFTER DELIVERY AT THE SITE. PILE WOOD AND LUMBER IN STACKS IN SUCH A MANNER AS TO PROVIDE ADEQUATE AIR CIRCULATION AND TO PREVENT WARPING. LOCATE STACKS IN WELL DRAINED AREAS, SUPPORTED AT LEAST SIX INCHES ABOVE GRADE AND COVER WITH WELL VENTILATED SHEDS HAVING A FIRMLY CONSTRUCTED OVERHANGING ROOF AS WELL AS SUFFICIENT END WALL TO PROTECT LUMBER FROM DRIVING RAIN.
- STORE SEASONED MATERIALS IN DRY PORTIONS OF BUILDING.
- PROTECT SHEET MATERIALS FROM CORNERS BREAKING AND DAMAGING SURFACES WHILE UNLOADING.
- NOMINAL SIZES ARE INDICATED EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE ACTUAL SIZES AS REQUIRED BY PRODUCT STANDARD 20, DEPARTMENT OF COMMERCE.
- MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 19%.
- LIGHT GAGE METAL CONNECTIONS SHALL BE SIMPSON, SUBMIT MANUFACTURERS SPECIFICATION SHEETS.

LUMBER GRADES:

- 2x6 AND 2x4 BEARING WALLS, INTERIOR AND EXTERIOR LOCATIONS: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA
- STRUCTURAL ROOF AND FLOOR FRAMING: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA
- PRESERVATIVE PRESSURE TREATED LUMBER: SOUTHERN PINE No. 2, AS GRADED BY SPIB
- LAMINATED VENEER LUMBER (LVL):
 - PROVIDE LVL HEADERS AND BEAMS AS INDICATED.
 - LVL FRAMING SHALL BE 1 3/4" WIDTH, UNLESS NOTED OTHERWISE.
 - LVL FRAMING SHALL BE LAMINATED DOUGLAS FIR OR SOUTHERN PINE (GP LAM BY GEORGIA PACIFIC OR MICROLAM BY TRUS-JOIST OR EQUAL) MEETING THE FOLLOWING MINIMUM ALLOWABLE STRESS CRITERIA:
 - FB (BENDING STRESS) = 2,600 PSI
 - FV (HORIZ. SHEAR STRESS) = 285 PSI
 - E (MODULUS OF ELASTICITY) = 2,000,000 PSI
 - FC (COMPRESSION PERPENDICULAR TO GRAIN) = 750 PSI
- PARALLEL STRAND LUMBER (PSL):
 - PROVIDE PSL POSTS AS INDICATED.
 - PSL FRAMING (PARALLAM BY TRUS-JOIST OR EQUAL) TO MEET THE FOLLOWING MINIMUM ALLOWABLE STRESS CRITERIA:
 - FB (BENDING STRESS) = 2,400 PSI
 - FV (HORIZ. SHEAR STRESS) = 290 PSI
 - E (MODULUS OF ELASTICITY) = 1,800,000 PSI
 - FC (COMPRESSION PERPENDICULAR TO GRAIN) = 545 PSI
 - FC (COMPRESSION PARALLEL TO GRAIN) = 2,500 PSI
- PREFABRICATED WOOD I-JOISTS (TJI):
 - PROVIDE TJI JOISTS AS INDICATED.
 - TJI JOISTS TO BE AS MANUFACTURED BY TRUS-JOIST.
- MISCELLANEOUS LUMBER: PROVIDE WOOD FOR SUPPORT OR ATTACHMENT OF THE WORK INCLUDING NON-BEARING PARTITIONS, CANT STRIPS, BUCKS, NAILERS, BLOCKING, FURRING, GROUNDS, STRIPPING AND SIMILAR MEMBERS. PROVIDE LUMBER OF SIZES AND SHAPES INDICATED. GRADE: SPRUCE-PINE-FIR STUD GRADE AS GRADED BY NLGA.

MATERIALS:

- ROOF SHEATHING: 5/8" APA RATED SHEATHING, 24"oc SPAN RATING, EXPOSURE DURABILITY 1, SANDED, SECURE SHEATHING WITH LONGER EDGE PERPENDICULAR TO FRAMING MEMBERS AND WITH ENDS STAGGERED AND SHEET ENDS OVER BEARING. USE SHEATHING CLIPS BETWEEN SHEETS BETWEEN ROOF FRAMING MEMBERS.
- FLOOR SHEATHING: 3/4" APA RATED SHEATHING, 24"oc SPAN RATING, 2-SPAN MINIMUM, SECURE SUB-FLOOR SHEATHING WITH LONGER EDGE PERPENDICULAR TO FLOOR FRAMING AND WITH END JOINTS STAGGERED AND SHEET ENDS OVER BEARING. ATTACH WITH SUB-FLOOR GLUE AND 8D NAILS AT 6" ON CENTER AT PERIMETER AND 12" ON CENTER ON INTERIOR OF PANEL.
- WALL SHEATHING: 1/2" APA RATED SHEATHING, SECURE WALL SHEATHING WITH LONG DIMENSION PERPENDICULAR TO WALL STUDS, WITH ENDS OVER FIRM BEARING AND STAGGERED.
- FASTENERS AND ANCHORS: FURNISH ITEMS OF ROUGH HARDWARE, METAL CONNECTORS, BOLTS, ETC., REQUIRED TO COMPLETE THE WORK. BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED ELECTRO GALVANIZED STEEL.
- SILL GASKET ON TOP OF FOUNDATION WALL: 1/4 INCH THICK, PLATE WIDTH WIDE, CLOSED CELL POLYETHYLENE URETHANE FOAM FROM CONTINUOUS ROLLS.
- SUBFLOOR GLUE: APA AFG-01, WATERPROOF OF WATER SOLVENT BASE, AIR CURE TYPE, CARTRIDGE DISPENSED.
- WOOD PRESERVATIVE (PRESSURE TREATMENT): AWPA TREATMENT ACQ USING WATER BORNE PRESERVATIVE WITH 0.40 PERCENT RETAINAGE.
- SET STRUCTURAL MEMBERS LEVEL AND PLUMB, IN CORRECT POSITION. PLACE HORIZONTAL MEMBERS, CROWN SIDE UP.
- MAKE PROVISIONS FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE SAFE, PLUMB, AND IN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
- CONSTRUCT LOAD BEARING FRAMING FULL LENGTH WITHOUT SPLICES.
- DOUBLE MEMBERS AT OPENINGS OVER 24 INCHES WIDE. SPACE SHORT STUDS OVER AND UNDER OPENING TO STUD SPACING.
- CONSTRUCT DOUBLE JOIST HEADERS AT FLOOR AND CEILING OPENINGS AND UNDER WALL STUD PARTITIONS THAT ARE PARALLEL TO FLOOR JOISTS. FRAME RIGIDLY INTO JOISTS.
- BRIDGE JOISTS FRAMING IN EXCESS OF 8 FEET SPAN AT MID-SPAN AND WHERE SHOWN ON DRAWINGS. FIT SOLID BLOCKING OR BRIDGING AT ENDS OF MEMBERS.
- TOLERANCES:
 - FRAMING MEMBERS: 1/4 INCH FROM TRUE POSITION, MAXIMUM.
 - SURFACE FLATNESS OF FLOOR: 1/4 INCH IN 10 FEET MAXIMUM, AND 1/2 INCH IN 30 FEET MAXIMUM.
- ALL POSTS AND COLUMNS FROM HEADERS AND BEAMS SHALL BEAR CONTINUOUSLY TO CONCRETE FOUNDATIONS INCLUDING BLOCKING IN FLOOR AND ROOF SPACES. BLOCKING SHALL BE OF THE SIZE AND SHAPE TO CARRY THE REQUIRED LOADING.
- ALL BOTTOM BEARING PLATES, FOR STUD WALLS OR BEAM BEARING, SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS AT 4'-0" ON CENTER, UNLESS NOTED OTHERWISE.
- ALL BEARING WALLS SHALL BE BLOCKED AT 4'-0" ON CENTER, VERTICALLY, UNLESS NOTED OTHERWISE.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE PRESSURE TREATED, P.P.T.
- ALL FASTENERS AND HANGERS FOR PRESSURE TREATED WOOD TO BE G90 HOT-DIPPED GALVANIZED.
- PROVIDE 1/4" NOMINAL GAP BETWEEN WOOD FRAMING AND HORIZONTAL FACES OF CONCRETE WALLS.

K. PLATE CONNECTED WOOD TRUSSES

- ALL FRAMING SHALL BE IN COMPLIANCE WITH THE 2015 INTERNATIONAL BUILDING CODE, (IBC) CHAPTER 23 "WOOD."
- TRUSS FABRICATORS ARE REQUIRED TO BE MEMBERS OF THE STRUCTURAL BUILDING COMPONENTS ASSOCIATION, (SBCA). THE FABRICATORS ARE ALSO REQUIRED TO HAVE THIRD PARTY INSPECTION IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE, (TPI) AND IBC CHAPTER 17.
- TRUSS DESIGN LOADS ARE PER THE "WOOD TRUSS DESIGN NOTES" AND TRUSS LOADING DIAGRAMS ON THE CONTRACT DOCUMENTS. THE TRUSSES SHALL BE DESIGNED FOR THE LOAD CASES WHICH PRODUCE THE HIGHEST STRESSES. LOAD CASES SHALL BE PER IBC 1605.0 "LOAD COMBINATIONS." MAXIMUM ALLOWABLE DEFLECTION OF TRUSSES:
 - ROOF TRUSS: LIVE LOAD: L/240 TOTAL LOAD: L/180
 - FLOOR TRUSS: LIVE LOAD: L/360 TOTAL LOAD: L/240
- ALL PREFABRICATED WOOD TRUSSES ARE TO BE DESIGNED BY OTHERS. PRIOR TO ORDERING ANY TRUSSES, SUBMIT TO THE ENGINEER ONE (1) SET OF SHOP DRAWINGS AND ONE (1) SET OF CALCULATIONS. THE SHOP DRAWINGS SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. NO TRUSSES MAY BE FABRICATED PRIOR TO THE ENGINEER'S APPROVAL OF THE TRUSS DESIGN. ALONG WITH THE SHOP DRAWINGS, PROVIDE A COPY OF THE TPI CERTIFICATION OR STAMP THAT THE TRUSS MANUFACTURING FACILITY HAS THIRD PARTY INSPECTIONS BY THE TPI.
- REVIEW OF TRUSS SUBMITTALS BY THE ENGINEER SHALL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT AND SHALL NOT INDICATE APPROVAL OF THE DESIGN OF THE TRUSS OR ITS COMPONENTS. REVIEW SHALL BE LIMITED TO THE FOLLOWING:
 - VERIFICATION OF CORRECT LOADING USED BY THE TRUSS ENGINEER.
 - REVIEW OF TRUSS REACTIONS AND VERIFICATION THAT BUILDING ELEMENTS ARE ADEQUATE TO SUPPORT TRUSS REACTIONS AS DETERMINED BY THE TRUSS ENGINEER.
 - REVIEW OF TRUSS DEFLECTIONS AS CALCULATED BY THE TRUSS ENGINEER FOR SUITABILITY IN THE OVERALL BUILDING CONFIGURATION.
 - DIMENSIONS WILL BE REVIEWED FOR CONFORMANCE WITH THE BEARING LOCATIONS AS INDICATED ON THE PROJECT DRAWINGS.
- ALL TRUSSES SHALL BE DELIVERED TO THE SITE, HANDLED, AND STORED IN COMPLIANCE WITH THE WTCATPI BUILDING COMPONENT SAFETY INFORMATION (BCSI) PUBLICATION "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLATION, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- TRUSS BRACING SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND WITH WTCATPI BCSI PUBLICATION. TOP CHORD AND BOTTOM CHORD BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THE WTCATPI BCSI. ALL BRACING SHALL REMAIN AS PERMANENT BRACING EXCEPT FOR THE TEMPORARY LATERAL BRACING NAILED TO THE TOP SIDE OF THE TOP CHORDS OF THE TRUSSES. DIAGONAL BRACES SHALL BE NAILED TO THE UNDERSIDE OF THE TOP CHORDS. LATERAL BRACING ON THE TOP SIDE OF THE TOP CHORD SHALL BE REPLACED BY SHEATHING.
- ALL TRUSSES MUST BE DESIGNED FOR THE BEARING WIDTHS SHOWN ON THE CONTRACT DOCUMENTS. THE WIDTH OF BEARING MAY NOT BE CHANGED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- FOR NAILING JOIST HANGERS OR ANY OTHER TYPE OF CONNECTOR, USE ONLY "JOIST HANGER" NAILS OR ANY OTHER NAIL APPROVED BY THE HANGER MANUFACTURER. DO NOT USE CEMENT-COATED SINKERS OR ROOFING NAILS.
- FIELD CUTTING HOLES AND NOTCHES IN ANY FRAMING MEMBER IS NOT ACCEPTABLE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- IN LIEU OF A RIGID CEILING, THE BOTTOM CHORDS OF THE TRUSSES MUST BE BRACED. SEE THE TRUSS SHOP DRAWINGS FOR BOTTOM CHORD BRACING REQUIREMENTS WHERE THERE IS NO HARD CEILING. IF THE SHOP DRAWINGS DO NOT SPECIFY A BRACING REQUIREMENT, PROVIDE CONTINUOUS BRACING AT 24" ON CENTER, (oc).
- PUBLICATIONS: SUBMIT ONE COPY OF BCSI 1 AND BCSI B1 SUMMARY SHEET AND PROVIDE TWO COPIES TO ERECTOR TO BE KEPT ON SITE.

L. MISCELLANEOUS SPECIFICATIONS

SUBMIT ALL PRODUCTS AND SYSTEMS LISTED IN THIS SECTION IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 1, WITH MANUFACTURER'S RECOMMENDATIONS APPLICABLE TO PROJECT USE. SEE DIVISION 1 SECTIONS FOR ALTERNATES.

- SLAB-ON-GRADE CONTROL JOINTS: SAW CUT USING EARLY ENTRY SAW IN ACCORDANCE WITH SOFF-CUT (OR ACCEPTED EQUAL) SYSTEM SPECIFICATION.
- EXTERIOR SLABS ON STRUCTURAL DRAWINGS, UNLESS NOTED OR SPECIFIED OTHERWISE:
 - EXPANSION JOINT FILLER: 1/2" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED
 - JOINT SEALANT: GARDOX, BY W R MEADOWS
 - SEALER ONLY AT SLABS NOT RECEIVING COVERING MATERIAL, FINISH, ETC.: LIQUI-HARD, BY W R MEADOWS.
 - MOISTURE RETAINING COVER CURE COVERED SLABS.
- INTERIOR EXPOSED SLABS: SEE ARCH DRAWINGS AND SPECIFICATIONS: FOR SLABS NOT COVERED BY THESE PROVIDE THE FOLLOWING:
 - EXPANSION JOINT FILLER: 3/8" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED.
 - JOINT SEALANT: POLURTHANE, BY W R MEADOWS
 - SEALER ONLY AT SLABS NOT RECEIVING COVERING MATERIAL, FINISH, ETC.: ASHFORD FORMULA, BY CURECRETE.
 - MOISTURE RETAINING COVER CURE COVERED SLABS
- INTERIOR SLABS RECEIVING COVERING MATERIAL, FINISH, ETC, UNLESS NOTED OR SPECIFIED OTHERWISE:
 - EXPANSION JOINT FILLER: 3/8" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED)
 - JOINT SEALANT: SIKAFLEX 1A, UNLESS OTHER REQUIRED FOR FLOOR SYSTEM, SEE SPEC.
 - SEALER: NONE
 - MOISTURE RETAINING COVER CURE, SEE SPECIFICATIONS



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DATE ISSUED: 03/27/2023

Drawn: JTM

Checked: JLR

REVISIONS:

#	Date	Description
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PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

STATE OF NEW HAMPSHIRE

ROBERT
NEELD, P.E.

No. 09172

LICENSED PROFESSIONAL ENGINEER

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

GENERAL NOTES

SK-0.2

Statement of Special Inspections

Project: *KUA Kilton/Welch Dormitories & Faculty Residences*

Location: *Meriden, NH*

Owner: *Kimball Union Academy*

Design Professional in Responsible Charge: *Engineering Ventures, PC*

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompasses the following disciplines:

Structural Mechanical/Electrical/Plumbing
 Architectural Other: _____

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency per attached schedule.

Prepared by:

Julie Reilly
 Engineering Ventures, PC
 3/27/2023

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

Soils and Foundations Spray Fire Resistant Material
 Cast-in-Place Concrete Wood Construction
 Precast Concrete Exterior Insulation and Finish System
 Masonry Mechanical & Electrical Systems
 Structural Steel Architectural Systems
 Cold-Formed Steel Framing Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator	TBD	
2. Structural Engineer	Engineering Ventures, PC	208 Flynn Avenue, Suite 2A Burlington VT 05401 Tel: 802-863-6225
3. Geotechnical Engineer	S.W. Cole Engineering, Inc.	226 Holiday Drive, Suite 4 White River Junction, VT 05001 Tel: 802-281-4559
4. Inspector	TBD	
5. Testing Agency	TBD	
6. Architect	Vermont Integrated Architecture, PC	P.O. Box 862 Middlebury, VT 05753 Tel: 802-989-7249

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category *B*

Quality Assurance Plan Required (Y/N) *N*

Description of seismic force resisting system and designated seismic systems:
Light-framed walls sheathed with wood structural panels rated for shear resistance

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) V^{RH} (V^{RSD}) *115mph (89mph)*

Wind Exposure Category *C*

Quality Assurance Plan Required (Y/N) *N*

Description of wind force resisting system and designated wind resisting components:
Light-framed walls sheathed with wood structural panels rated for shear resistance

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

PE/SE Structural Engineer – a licensed SE or PE specializing in the design of building structures
 PE/GE Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
 EIT Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT Concrete Field Testing Technician – Grade 1
 ACI-CCI Concrete Construction Inspector
 ACI-LTT Laboratory Testing Technician – Grade 1&2
 ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI Certified Welding Inspector
 AWS/AISC-SSI Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI Structural Masonry Special Inspector
 ICC-SWSI Structural Steel and Welding Special Inspector
 ICC-SFSI Spray-Applied Fireproofing Special Inspector
 ICC-PCSI Prestressed Concrete Special Inspector
 ICC-RCSI Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT Concrete Technician – Levels I, II, III & IV
 NICET-ST Soils Technician – Levels I, II, III & IV
 NICET-GET Geotechnical Engineering Technician – Levels I, II, III & IV

Other

Soils and Foundations

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	3 PE/GE	Inspect soils below footings and slabs for adequate bearing capacity and consistency with geotechnical report. FREQUENCY: Periodic Verify excavations are extended to proper depth and have reached proper material. FREQUENCY: Periodic Inspect preparation of subgrade prior to placement of controlled fill or foundations. FREQUENCY: Periodic
2. Controlled Structural Fill	4	Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material, and determine optimum water content and maximum dry density. FREQUENCY: Periodic Inspect extent, composition, placement, lift thickness, and proof-rolling/compaction of controlled fill (including granular fill, sand and gravel, and crushed stone below footings and slabs) in accordance with specifications. FREQUENCY: Continuous

Cast-in-Place Concrete

Item	Agency # (Qualif.)	Scope
1. Mix Design	4 ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design. FREQUENCY: Periodic
2. Reinforcement Installation	4 ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. FREQUENCY: Periodic
3. Anchor Rods	4 ACI-CCI ICC-RCSI	Inspect size, positioning and embedment of anchor rods. Verify embedded end of rod (including bends, washers, nuts) is in conformance with approved construction documents. FREQUENCY: All anchor rods, prior to concrete pour.
4. Concrete Placement	4 ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated. FREQUENCY: Continuous
5. Sampling and Testing of Concrete	4 ACI-CFTT (in field) ACI-STT (in lab)	Test slump (ASTM C143), air-content (ASTM C231 or C173), temperature (ASTM C1064), and unit weight (ASTM C138). FREQUENCY: Continuous Test concrete compressive strength (ASTM C31 & C39). FREQUENCY: Continuous
6. Curing and Protection	4 ACI-CCI ICC-RCSI	Inspect curing and protection procedures. FREQUENCY: Periodic
7. Post-Installed Anchors	4 ACI-CCI ICC-RCSI	Inspect anchors and reinforcing steel post-installed in hardened concrete. Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque. FREQUENCY: Periodic or as required the research report issued by an approved source.
8. Formwork	4	Inspect formwork for shape, location and dimensions of the concrete member being formed. FREQUENCY: Periodic

Wood Construction

Item	Agency # (Qualif.)	Scope
1. Diaphragms and Shear Walls	4	Verify panel grade and thickness. Verify fastener size and spacing. Verify fasteners are not countersunk into sheathing. Verify panel configuration and blocking. Verify location and type of hold-downs and ties. FREQUENCY: Upon completion of diaphragm/shear walls.
2. Other elements of the seismic-force-resisting system (includes: straps, hold downs)	4	Inspect nailing, bolting, anchorage and other fastening systems. FREQUENCY: Upon completion.



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DATE ISSUED: 03/27/2023

Drawn: JTM

Checked: JLR

REVISIONS:

#	Date	Description
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PERMIT SET
 05/15/2023

KUA DORM PROJECT

MAY 12, 2023

STATE OF NEW HAMPSHIRE

ROBERT NEELD, PE

No. 09172

LICENSED PROFESSIONAL ENGINEER

KUA
 KILTON/WELCH
 DORMITORIES

Main Street,
 Meriden, NH 03770

SPECIAL
 INSPECTIONS

SK-0.3

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

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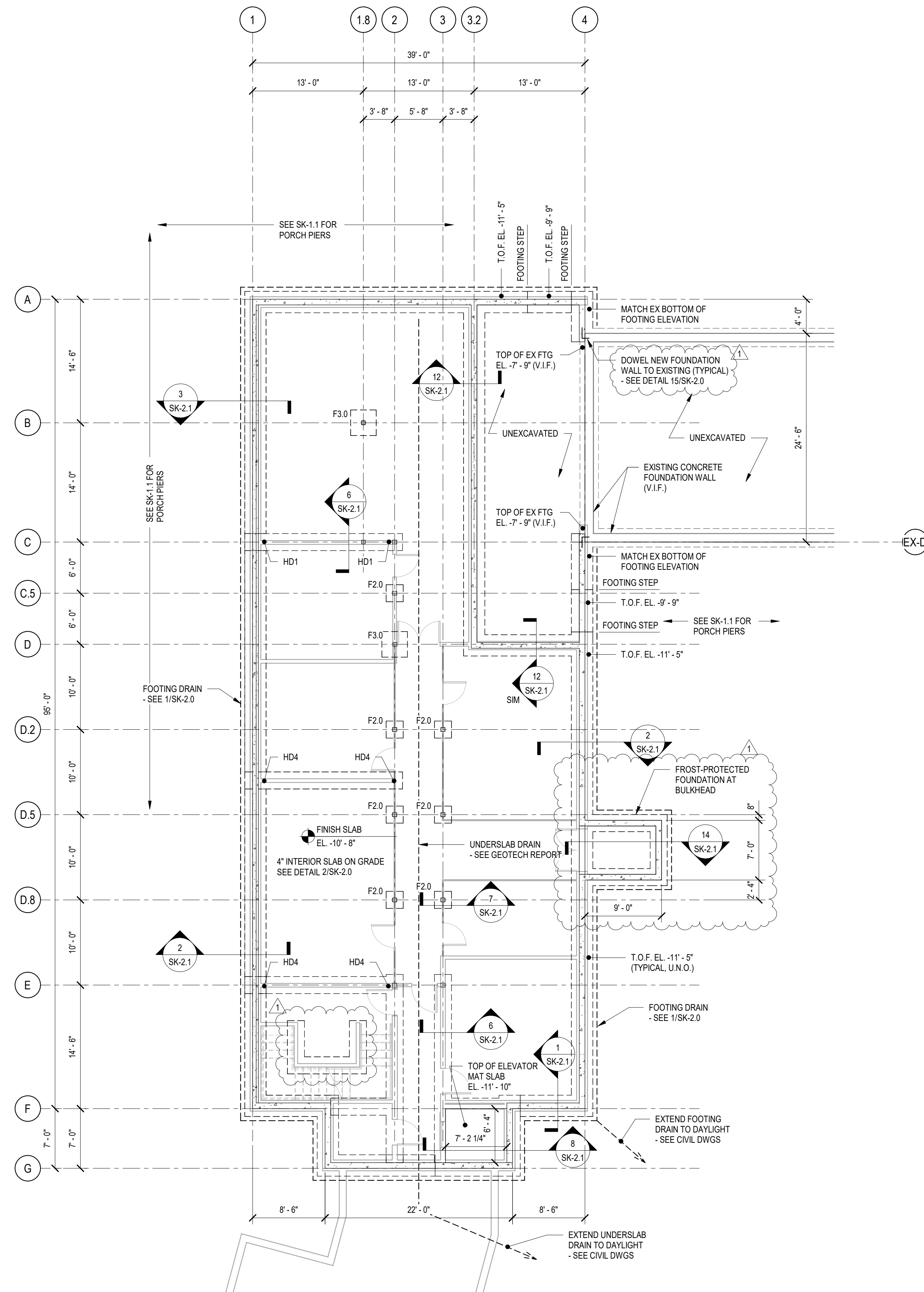


KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

FOUNDATION
PLAN

SK-1.0



1 FOUNDATION PLAN
1/8" = 1'-0"

- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
 - "T.O.F." DENOTES TOP OF FOOTING ELEVATION.
 - SEE SK-1.1 FOR TOP OF WALL AND TOP OF SHELF ELEVATIONS.
 - "F#" DENOTES SPREAD FOOTING. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCING.
 - "HD#" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS SHEET SK-3.4.
 - HOLD DOWN INDICATED ON PLAN OCCURS AT BASEMENT AT BASE OF SHEAR WALL.
 - COORDINATE DOOR R.O.'S WITH ARCH DWGS AND DOOR SUBMITTALS.

FOOTING SCHEDULE

Type	Length	Width	Footing Thickness	Reinforcing
F2.0	2'-0"	2'-0"	1'-0"	(3) #4 x 1'-8" EACH WAY, BOTTOM
F3.0	3'-0"	3'-0"	1'-0"	(4) #4 x 2'-8" EACH WAY, BOTTOM

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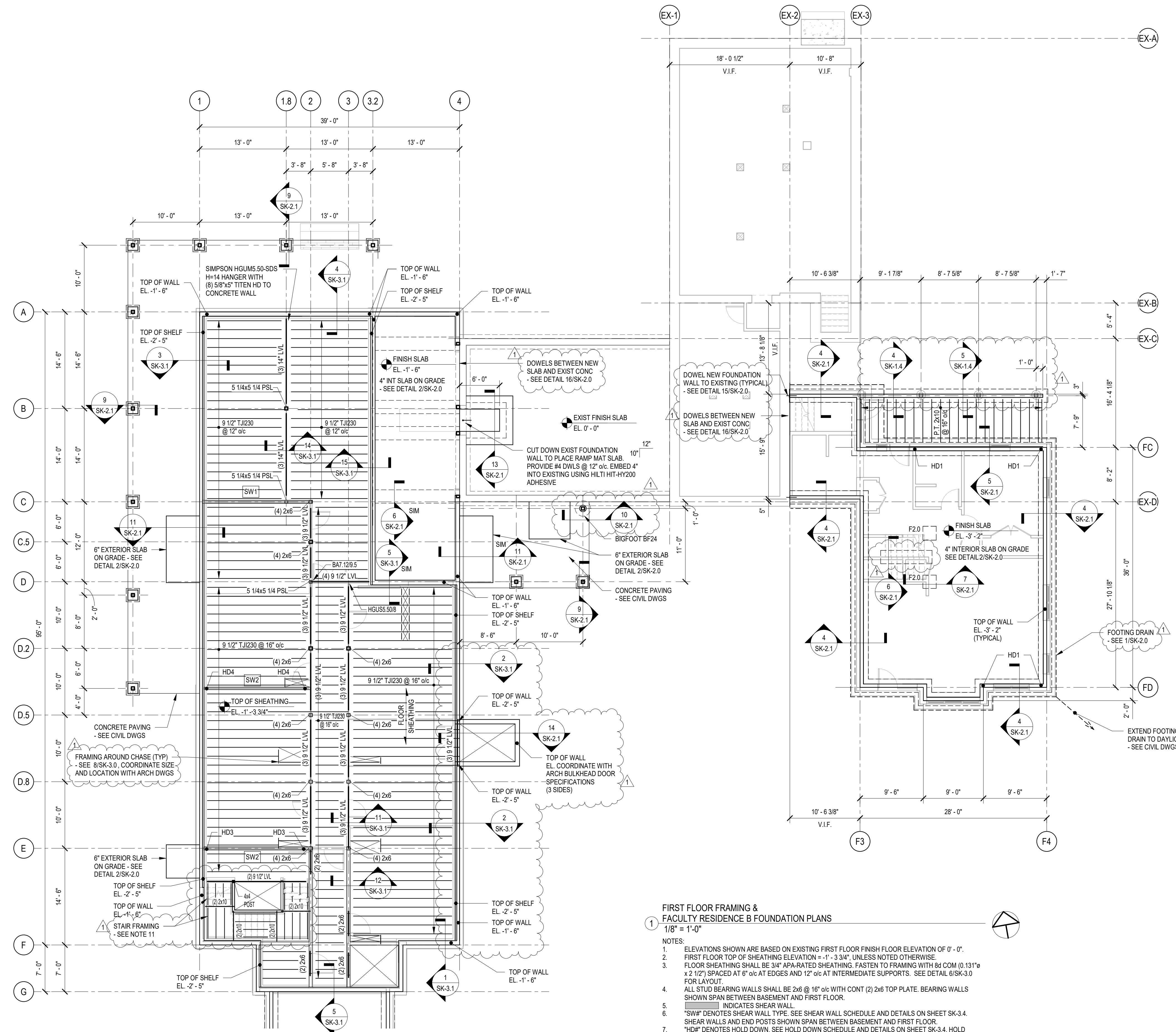


KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

FIRST FLOOR
FRAMING PLAN

SK-1.1



- FIRST FLOOR FRAMING & FACULTY RESIDENCE B FOUNDATION PLANS**
1/8" = 1'-0"
- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
 - FIRST FLOOR TOP OF SHEATHING ELEVATION = -1' - 3.34", UNLESS NOTED OTHERWISE.
 - FLOOR SHEATHING SHALL BE 3/4" APA-RATED SHEATHING, FASTEN TO FRAMING WITH 8d CONC (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SK-3.0 FOR LAYOUT.
 - ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN BASEMENT AND FIRST FLOOR.
 - INDICATES SHEAR WALL.
 - "SW#F" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SK-3.4.
 - SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN BASEMENT AND FIRST FLOOR.
 - "HD#F" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS ON SHEET SK-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT FIRST FLOOR AT BASE OF SHEAR WALL.
 - ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
 - ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. "KJ + IK" INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY, REQUIRED.
 - ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCK AS REQUIRED).
 - STAIR STRINGERS SHALL BE CUT FROM 1 3/4" x 11 1/4" LVL AT 16" o/c WITH SIMPSON L590 EACH SIDE. TOP AND BOTTOM OF STAIR RUN. EFFECTIVE DEPTH AT TREAD NOTCHES SHALL BE 5 1/2" MIN. LANDING FRAMING TO BE 2x10 AT 16" o/c WITH SIMPSON LUS28 HANGERS. COORDINATE STAIR AND LANDING LAYOUT WITH ARCH DRAWINGS.
 - COORDINATE DOOR AND WINDOW F.O.S. WITH ARCH DWGS AND DOOR AND WINDOW SUBMITTALS.
 - "BF24" INDICATES BIGFOOT SYSTEMS BF24 CONCRETE FOOTING.
 - "TOP OF WALL" DENOTES TOP OF FOUNDATION WALL ELEVATION.
 - "TOP OF SHELF" DENOTES TOP OF FOUNDATION WALL SHELF ELEVATION.
 - SEE ARCH DWGS FOR WOOD DECKING AT PORCH.
 - SIMPSON HANGERS INDICATED ON PLAN.

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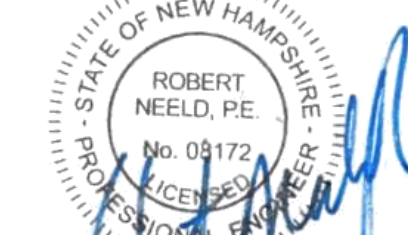
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#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

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MAY 12, 2023

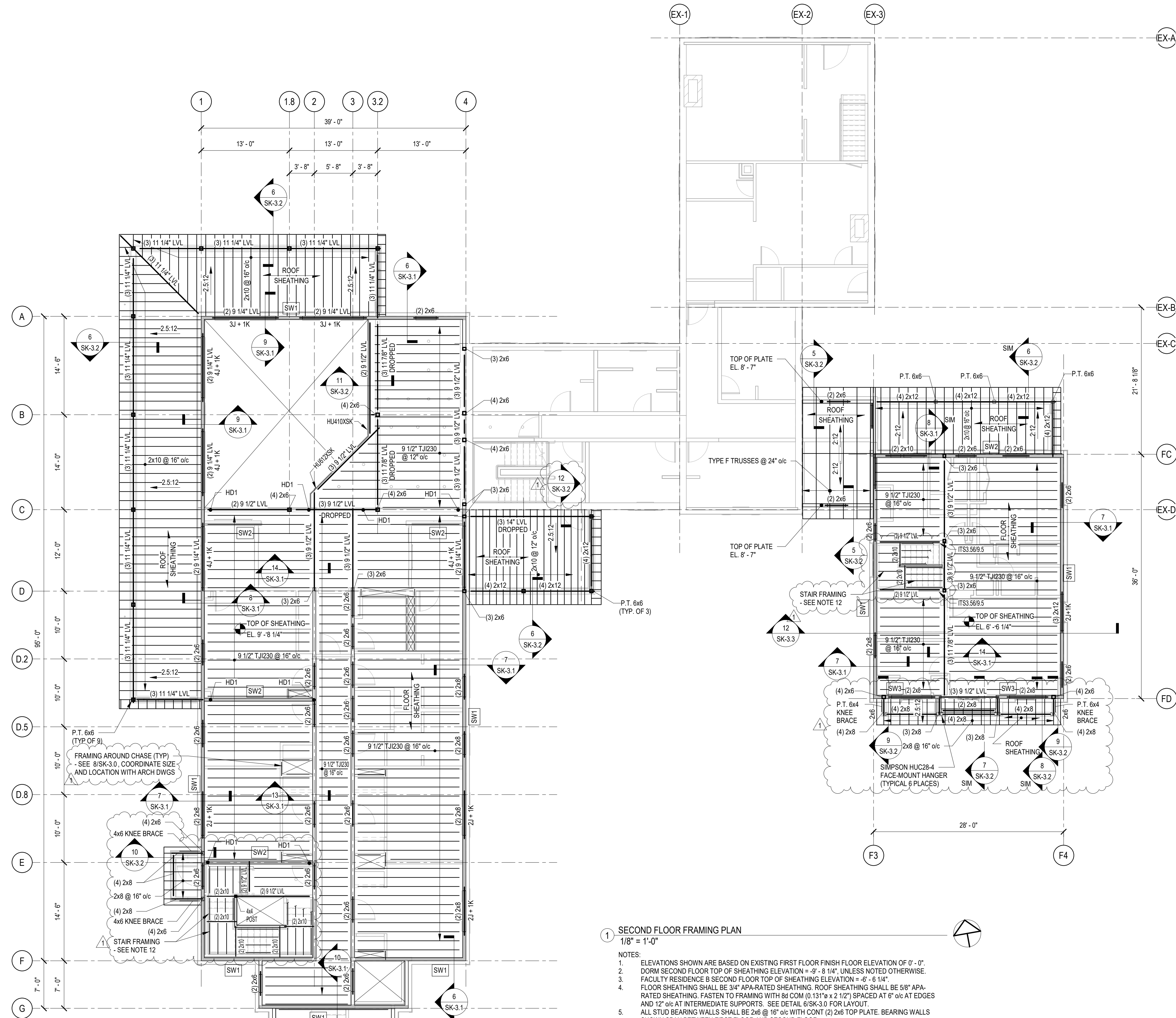


**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**SECOND FLOOR
FRAMING PLAN**

SK-1.2



1 SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0'-0".
 - DORM SECOND FLOOR TOP OF SHEATHING ELEVATION = -9'-8 1/4", UNLESS NOTED OTHERWISE.
 - FACULTY RESIDENCE B SECOND FLOOR TOP OF SHEATHING ELEVATION = -6'-6 1/4".
 - FLOOR SHEATHING SHALL BE 3/4" APA-RATED SHEATHING. ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 8/SK-3.0 FOR LAYOUT.
 - ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - INDICATES SHEAR WALL.
 - "SW" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SK-3.4.
 - SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - "HDP" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS ON SHEET SK-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT SECOND FLOOR AT BASE OF SHEAR WALL.
 - ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
 - ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. "4" + "8" INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY, REQUIRED.
 - ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCK AS REQUIRED).
 - STAIR STRINGERS SHALL BE CUT FROM 1 3/4" x 1 1/4" LVL AT 16" o/c WITH SIMPSON LS90 EACH SIDE. TOP AND BOTTOM OF STAIR RUN. EFFECTIVE DEPTH AT TREAD NOTCHES SHALL BE 5 1/2" MIN. LANDING FRAMING TO BE 2x10 AT 16" o/c WITH SIMPSON LUS28 HANGERS. COORDINATE STAIR AND LANDING LAYOUT WITH ARCH DRAWINGS.
 - SIMPSON HANGERS INDICATED ON PLAN.
 - SEE ARCH DRAWINGS FOR PORCH AND CANOPY BEAM ELEVATIONS.
 - SEE SHEET SK-3.3 FOR TRUSS DETAILS AND DESIGN LOADS.

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

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MAY 12, 2023

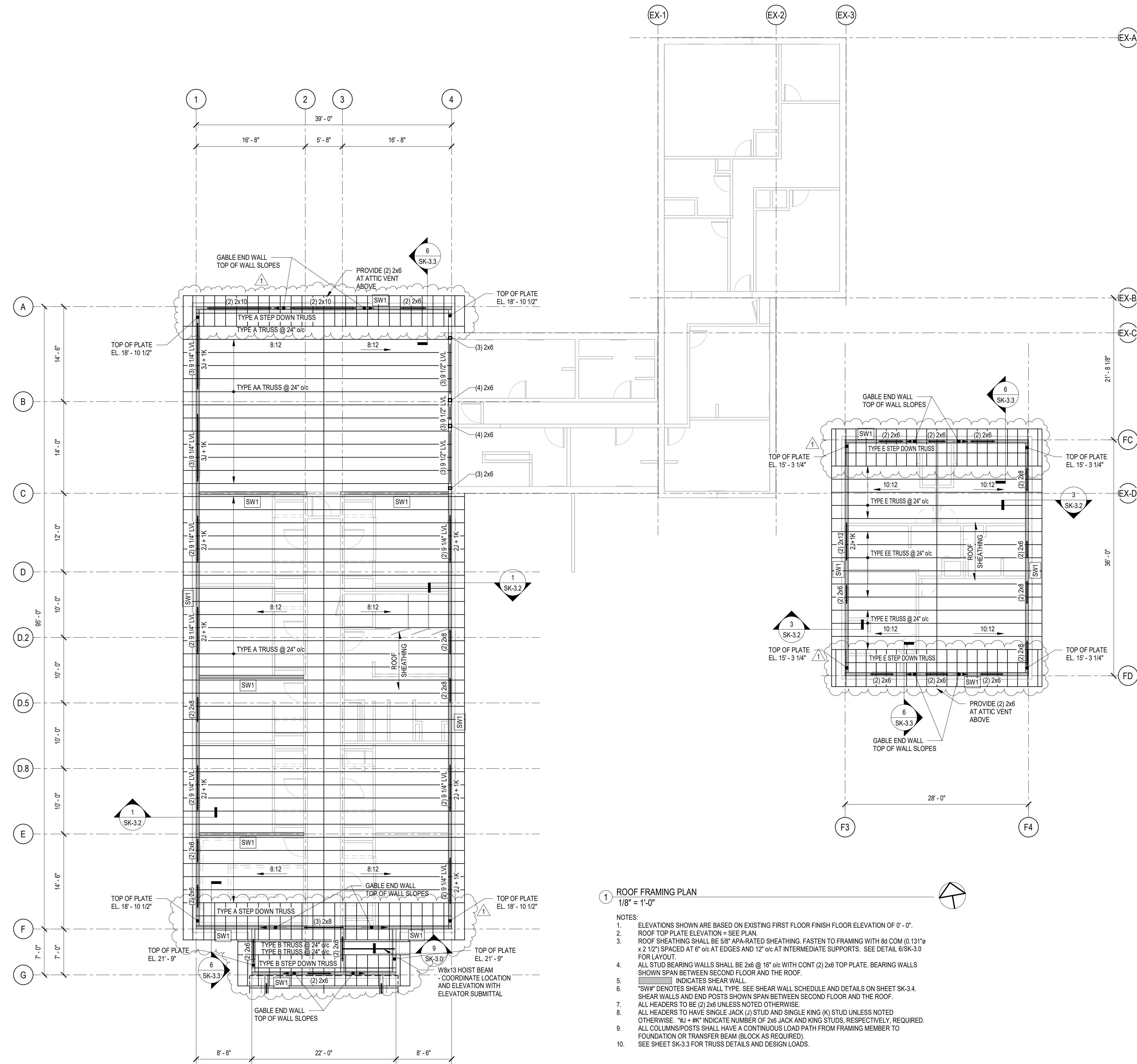


KUA
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DORMITORIES

Main Street,
Meriden, NH 03770

ROOF FRAMING
PLAN

SK-1.3



#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

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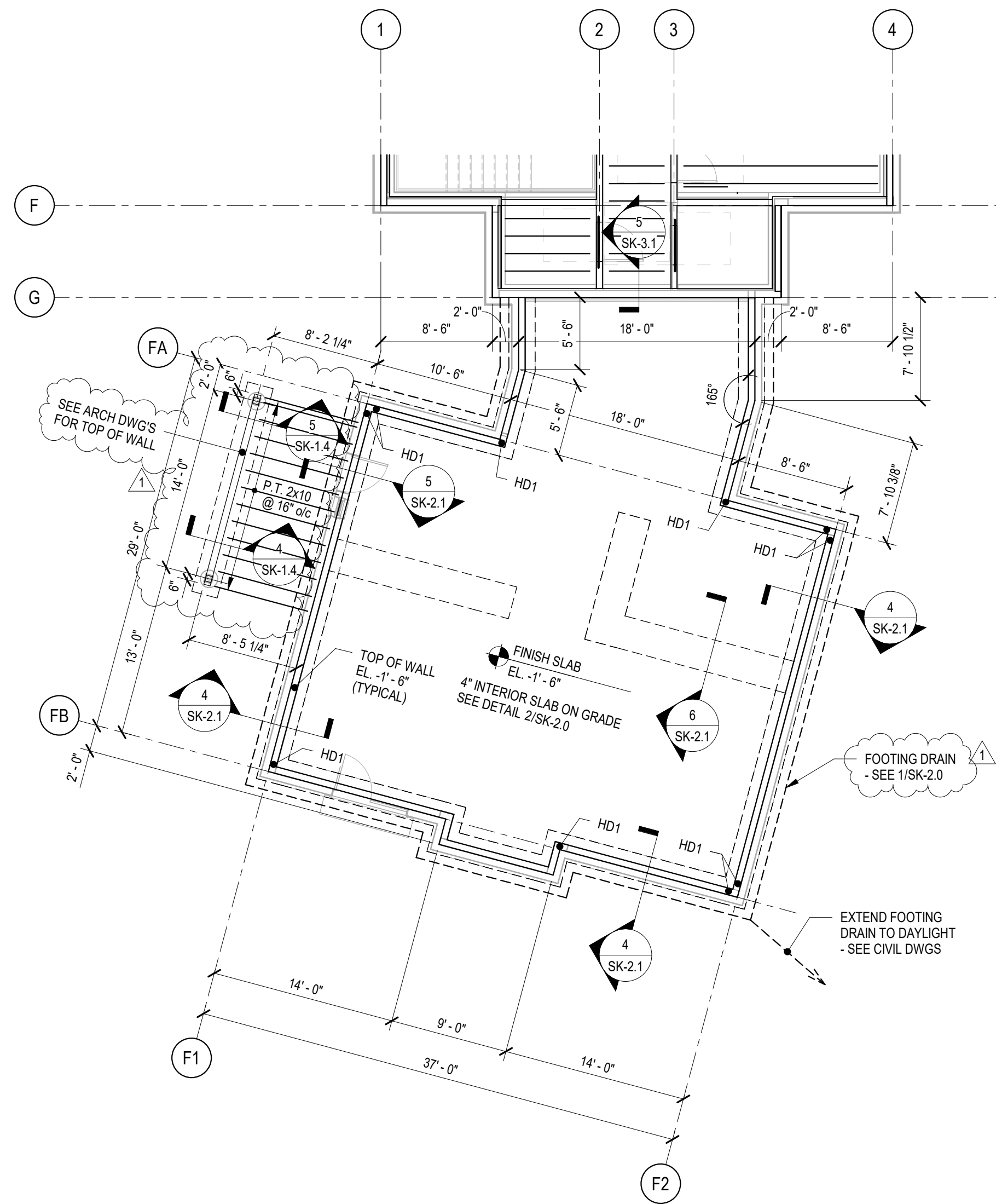


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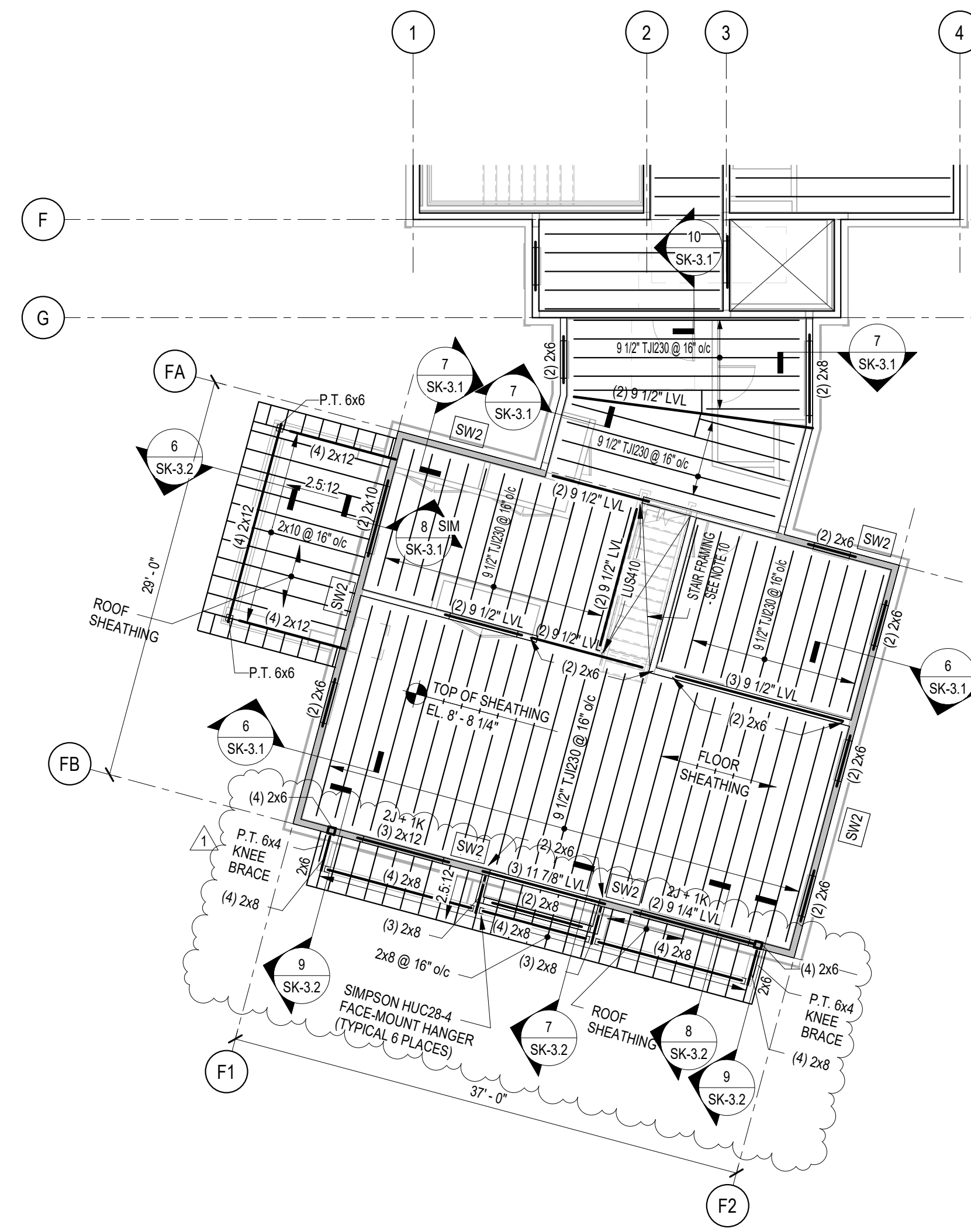
FACULTY
RESIDENCE 'A'
PLANS

SK-1.4



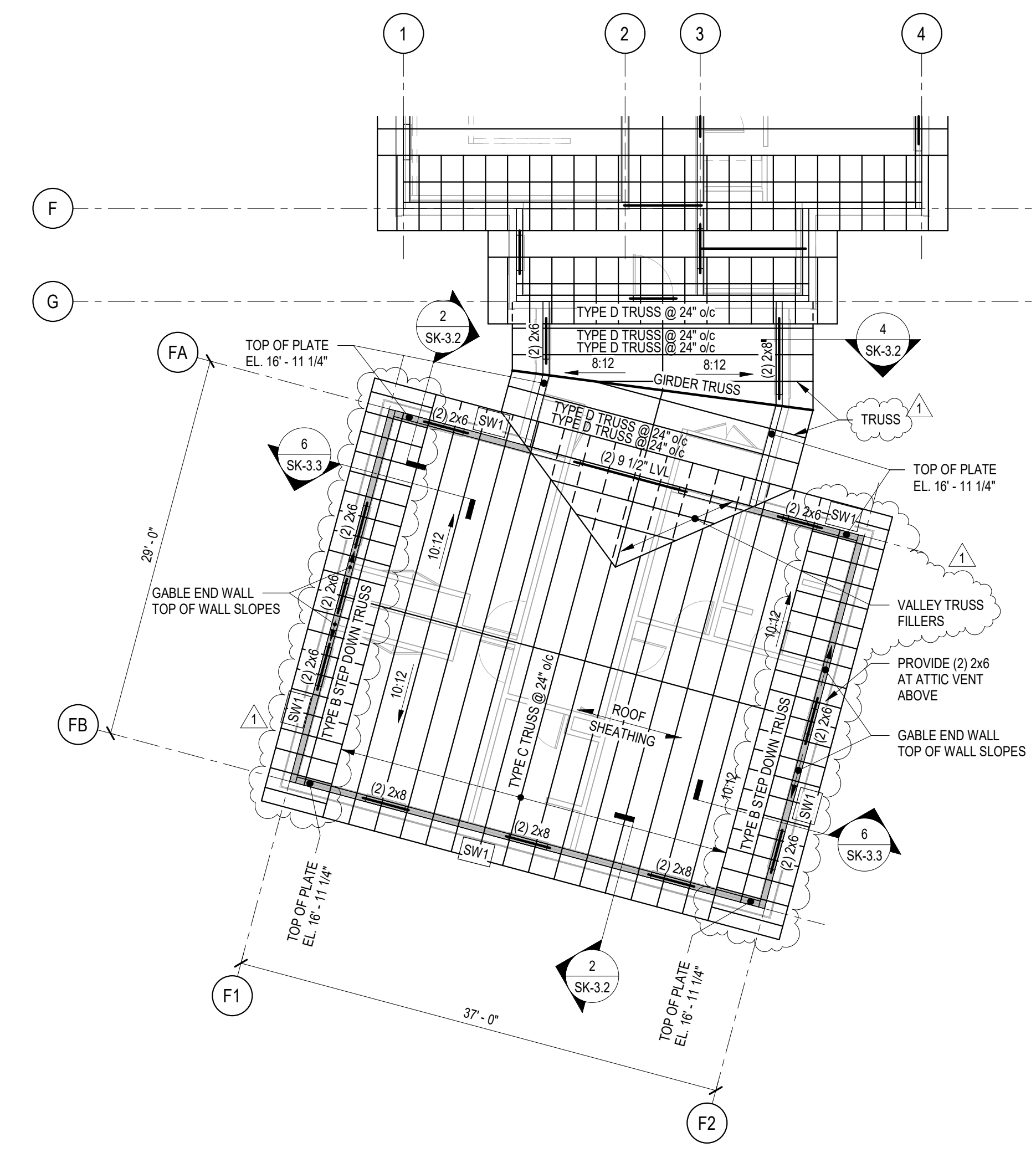
1 FACULTY RESIDENCE FOUNDATION PLAN
1/8" = 1'-0"

- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
 - "TOP OF WALL" DENOTES TOP OF FOUNDATION WALL ELEVATION.
 - "BF24" INDICATES BIG FOOT SYSTEMS BF24 CONCRETE FOOTING.
 - "HD1" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS SHEET SK-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT FIRST FLOOR AT BASE OF SHEAR WALL.
 - COORDINATE DOOR R.O.'S WITH ARCH DWGS AND DOOR SUBMITTALS.
 - SEE ARCH DWGS FOR WOOD DECKING AT PORCH.



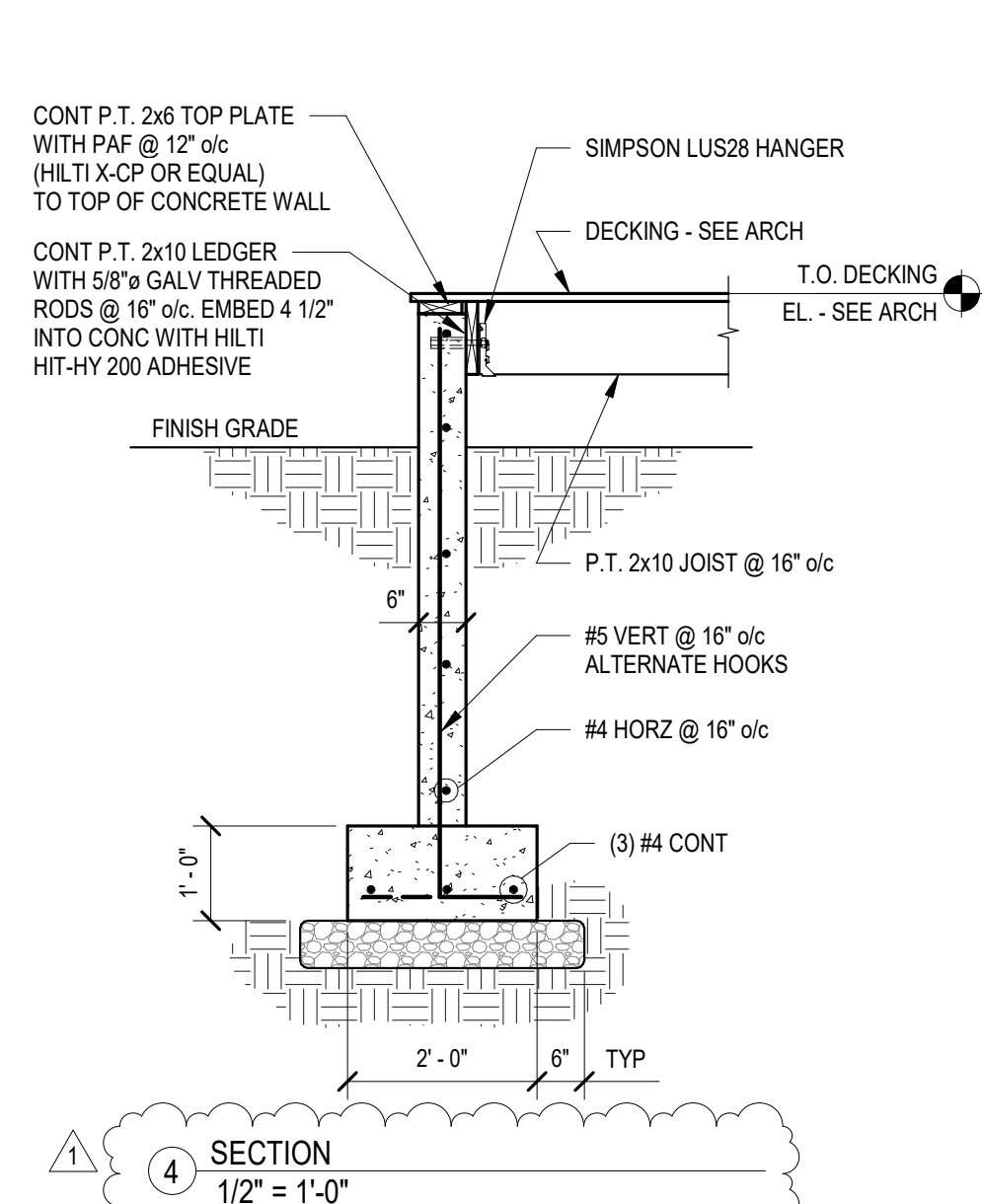
2 FACULTY RESIDENCE SECOND FLOOR FRAMING
1/8" = 1'-0"

- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
 - SECOND FLOOR TOP OF SHEATHING ELEVATION = 8' - 8 1/4", UNLESS NOTED OTHERWISE.
 - FLOOR SHEATHING SHALL BE 3/4" APA-RATED SHEATHING. ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SK-3.0 FOR LAYOUT.
 - ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - INDICATES SHEAR WALL.
 - "SW1" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SK-3.4. SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
 - ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. "KJ" + "KK" INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY, REQUIRED.
 - ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCK AS REQUIRED).
 - STAIR STRINGERS SHALL BE CUT FROM 1 3/4" x 1 1/4" LVL AT 16" o/c WITH SIMPSON LS90 EACH SIDE. TOP AND BOTTOM OF STAIR RUN EFFECTIVE DEPTH AT TREAD NOTCHES SHALL BE 5 1/2" MIN. COORDINATE STAIR AND LANDING LAYOUT WITH ARCH DRAWINGS.
 - SIMPSON HANGERS INDICATED ON PLAN.

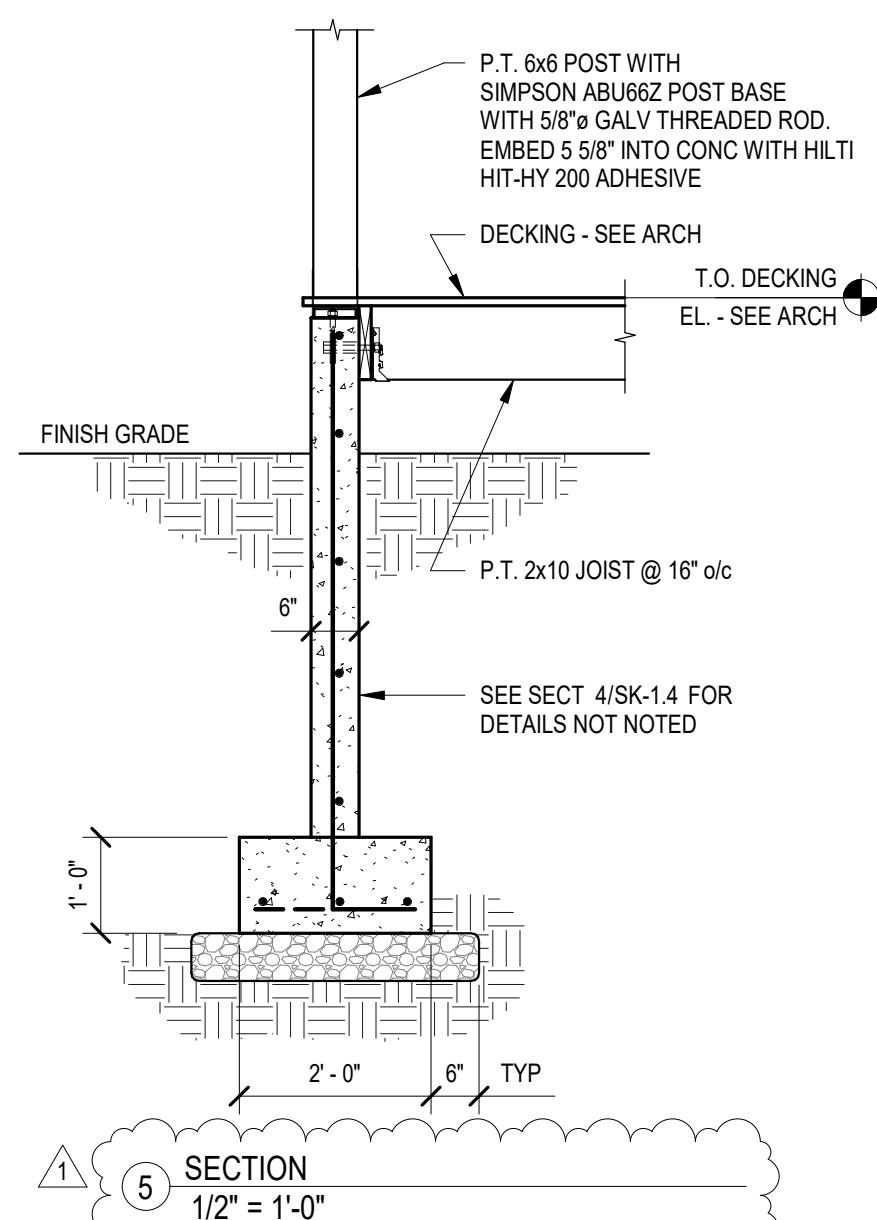


3 FACULTY RESIDENCE 'A' ROOF FRAMING PLAN
1/8" = 1'-0"

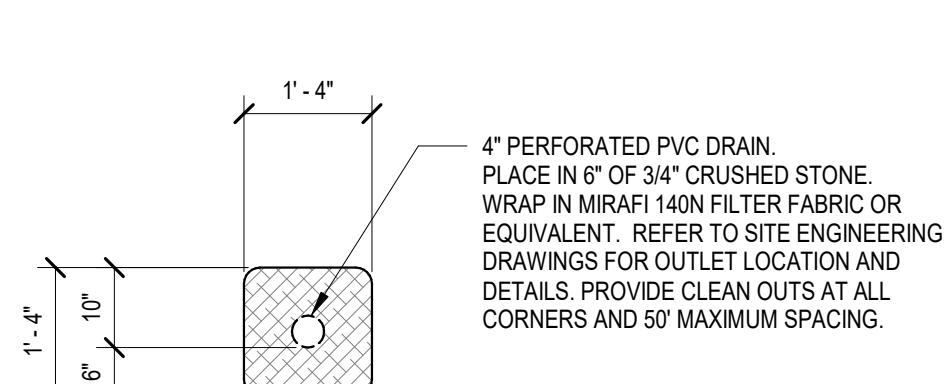
- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
 - ROOF TOP PLATE ELEVATION = SEE PLAN.
 - ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SK-3.0 FOR LAYOUT.
 - ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN SECOND FLOOR AND THE ROOF.
 - INDICATES SHEAR WALL.
 - "SW1" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SK-3.4. SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN SECOND FLOOR AND THE ROOF.
 - ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
 - ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. "KJ" + "KK" INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY, REQUIRED.
 - ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCK AS REQUIRED).
 - SEE SHEET SK-3.3 FOR TRUSS DETAILS AND DESIGN LOADS.



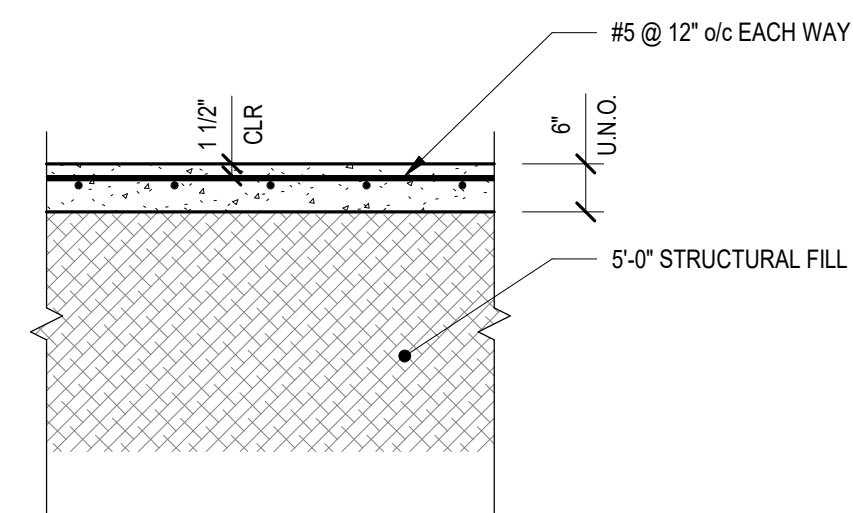
4 SECTION
1/2" = 1'-0"



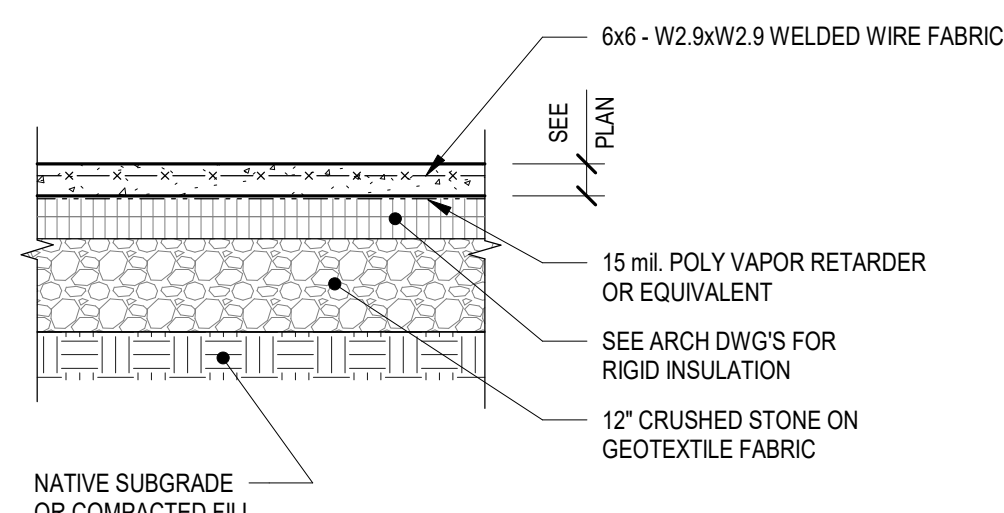
5 SECTION
1/2" = 1'-0"



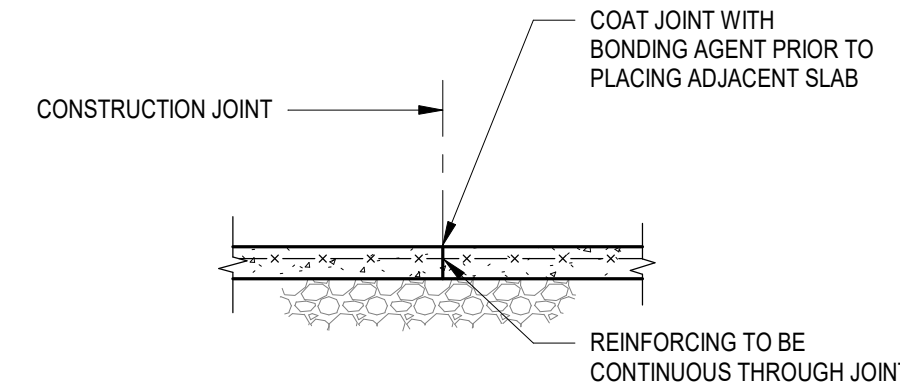
1 TYPICAL FOOTING DRAIN
1/2" = 1'-0"



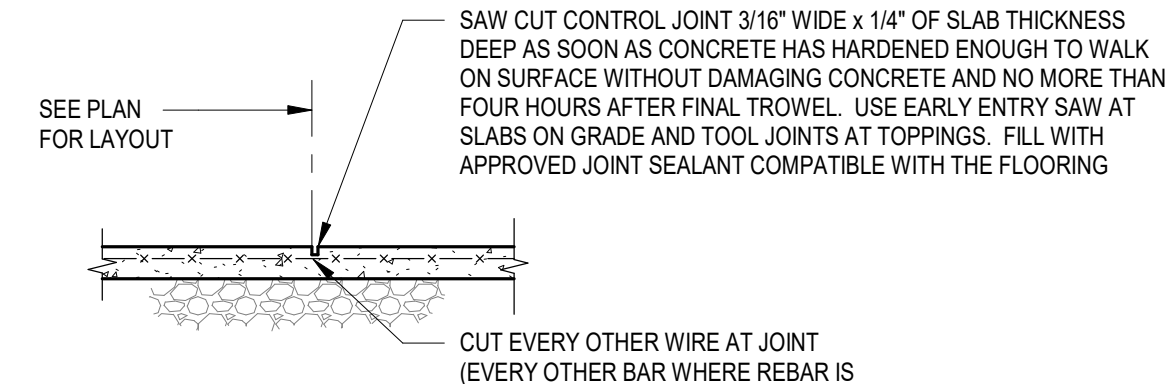
EXTERIOR SLAB-ON-GRADE



INTERIOR SLAB-ON-GRADE

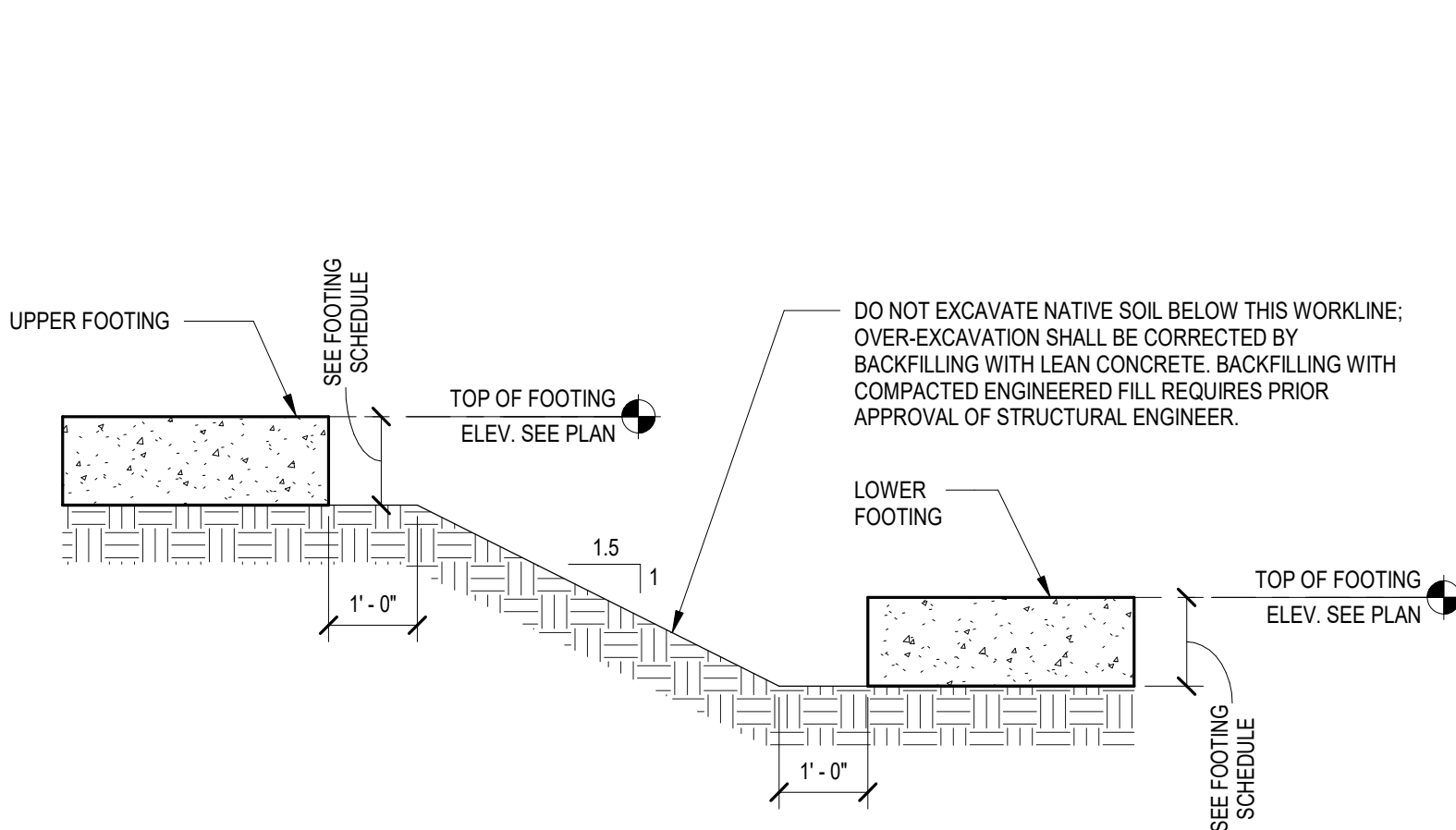


CONSTRUCTION JOINT

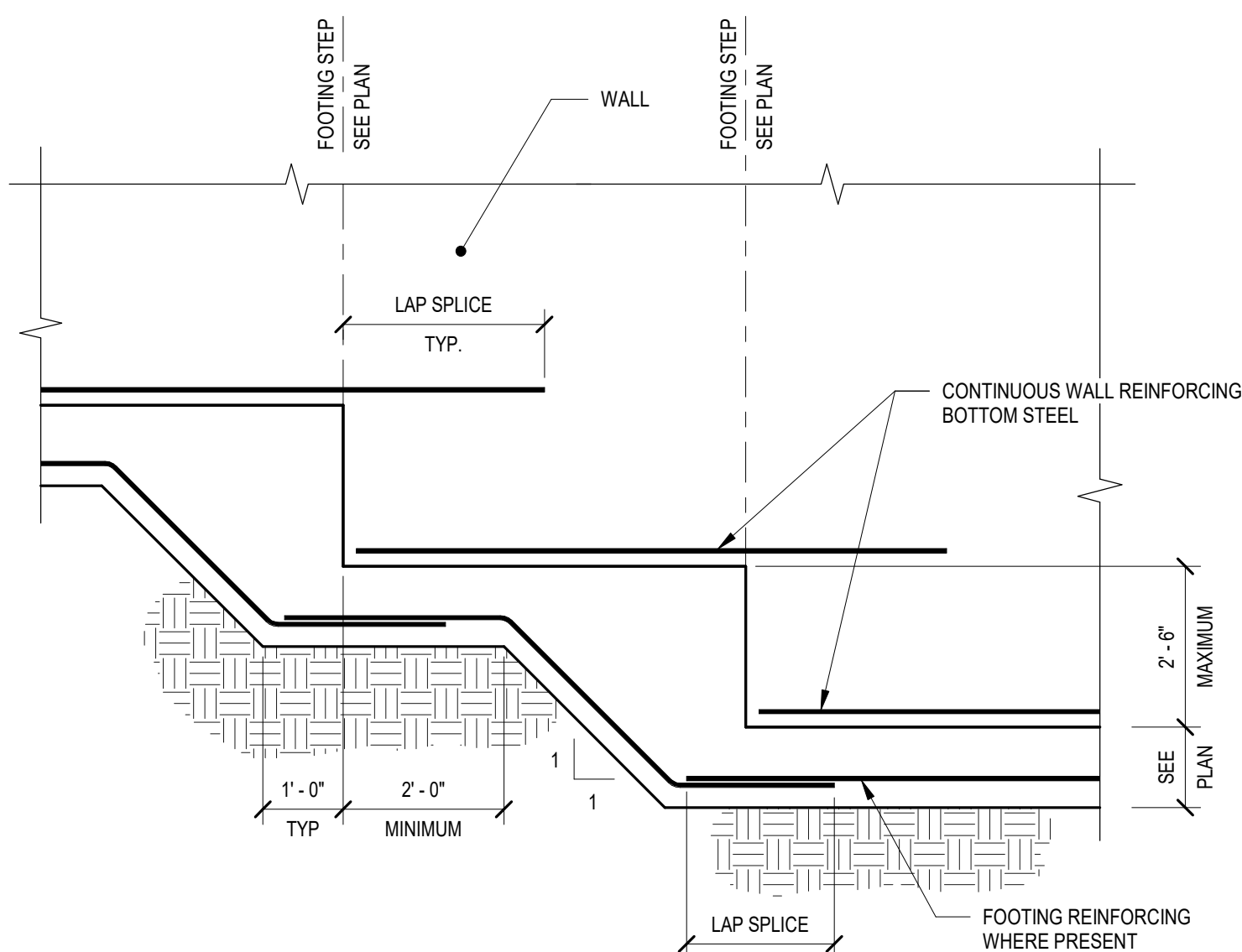


CONTROL JOINT

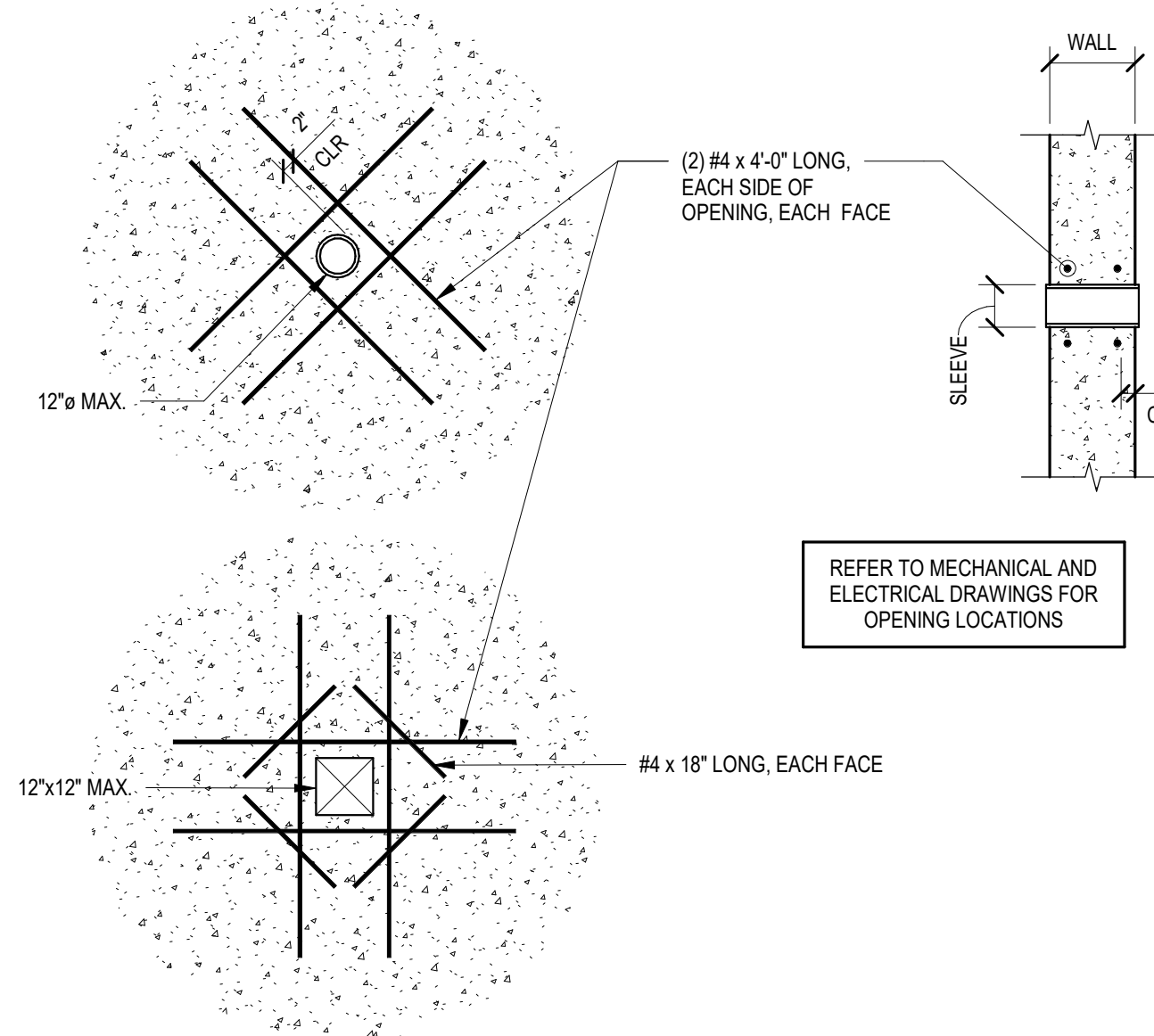
3 TYPICAL SLAB-ON-GRADE JOINTS
1/2" = 1'-0"



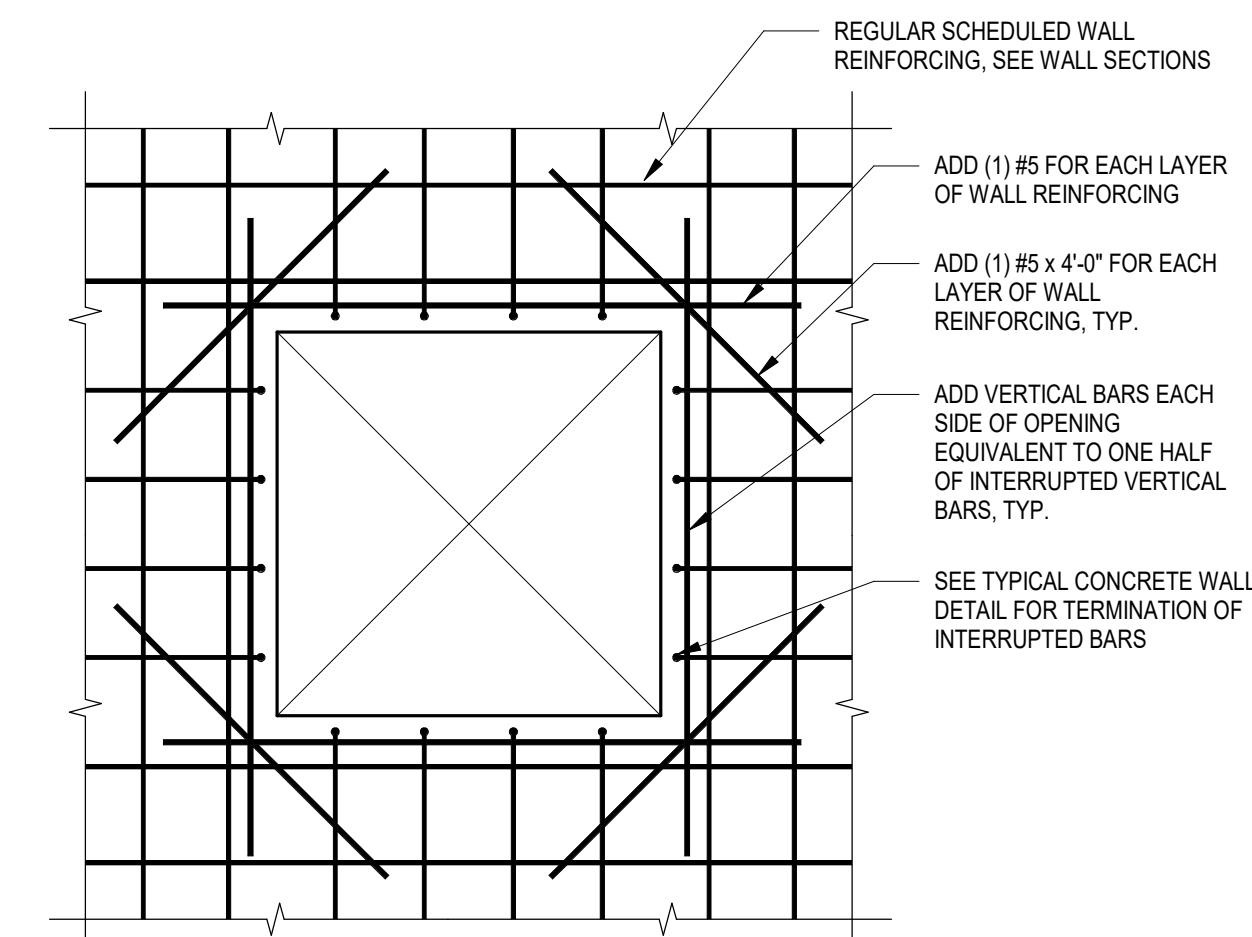
4 TYPICAL EXCAVATION AT ADJACENT FOOTING
1/2" = 1'-0"



5 TYPICAL FOOTING STEP
1/2" = 1'-0"

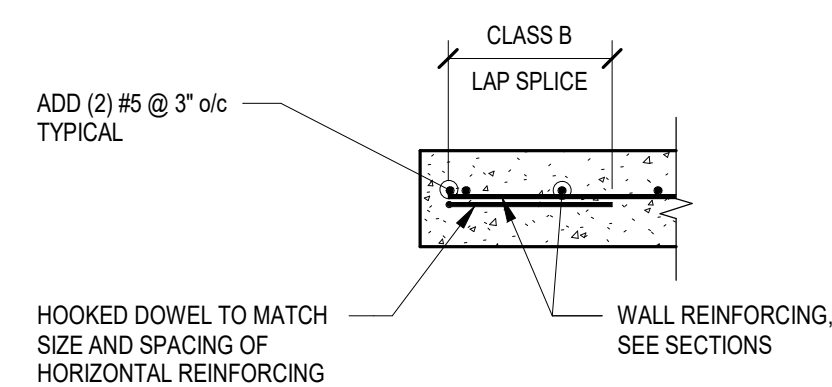


6 TYPICAL CONCRETE WALL OPENINGS
1/2" = 1'-0"

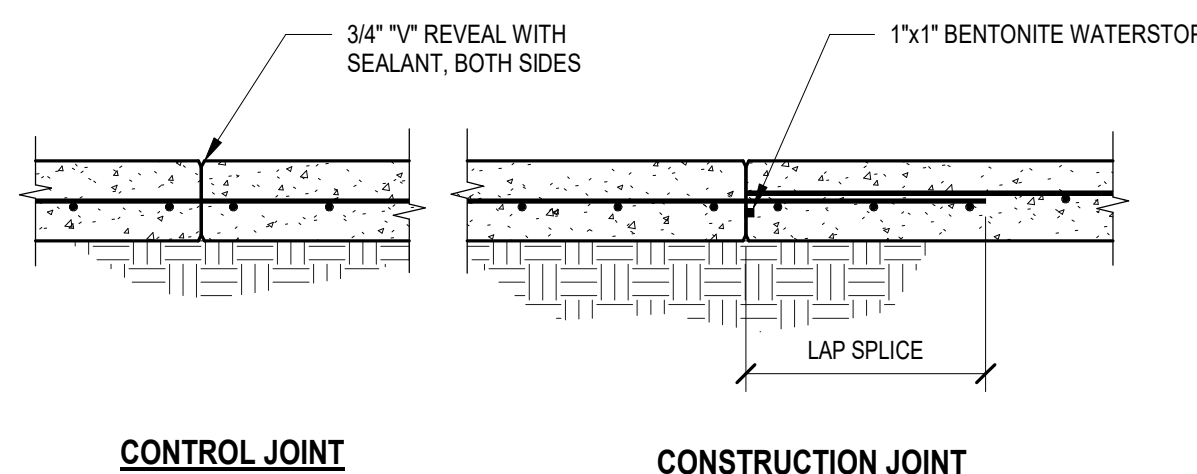


- NOTES:
- COORDINATE WITH OTHER TRADES AND INDICATE PENETRATIONS GREATER THAN 12" ON FORMWORK AND REBAR SHOP DRAWINGS.
 - CLEAR DISTANCE BETWEEN ADJACENT OPENINGS SHALL NOT BE LESS THAN SIZE OF OPENING.
 - OPENINGS NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS ARE SUBJECT TO STRUCTURAL ENGINEERS APPROVAL.

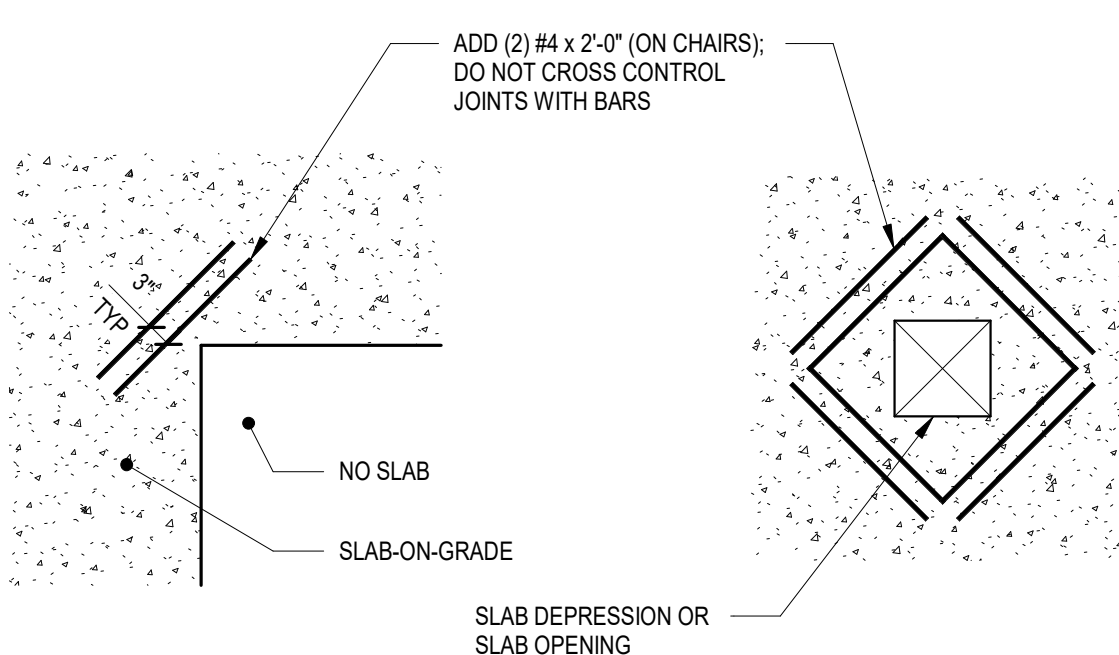
7 TYPICAL CONCRETE WALL OPENING
1/2" = 1'-0"



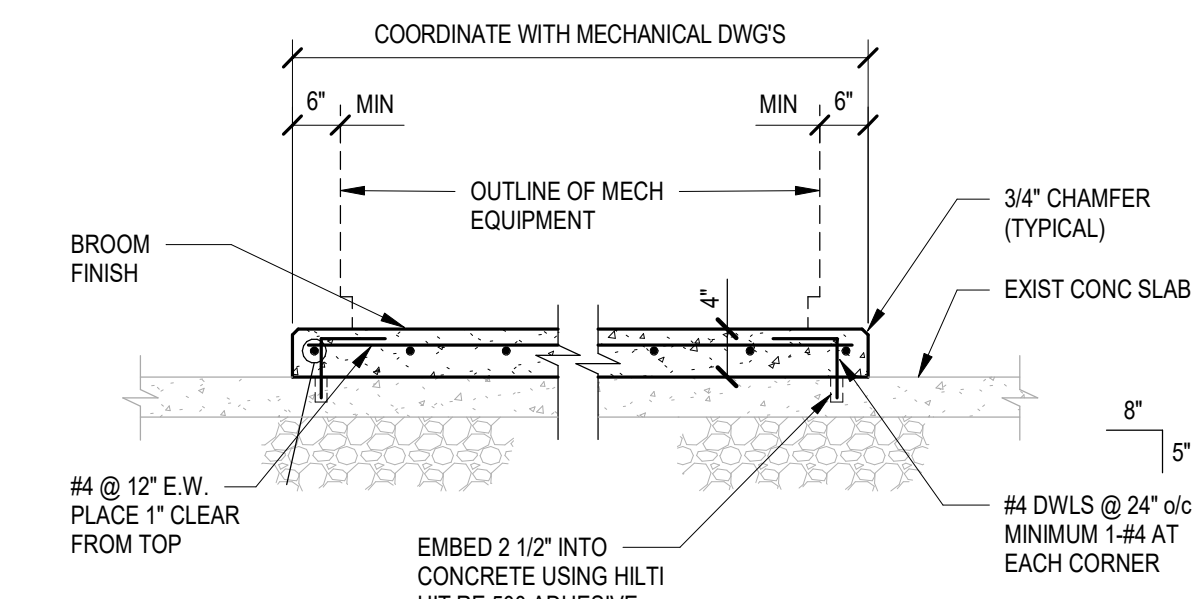
8 TYPICAL CONCRETE WALL END
1/2" = 1'-0"



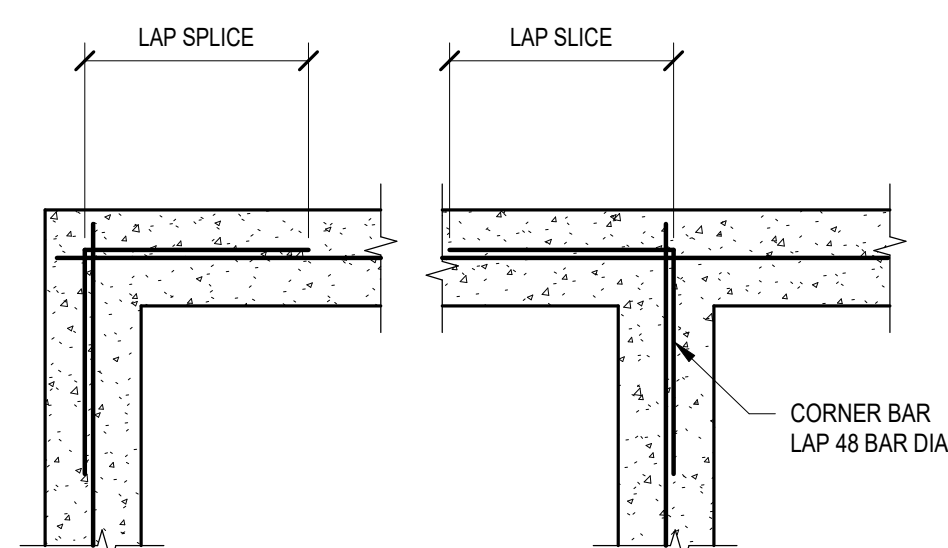
9 TYPICAL CONCRETE WALL JOINTS
1/2" = 1'-0"



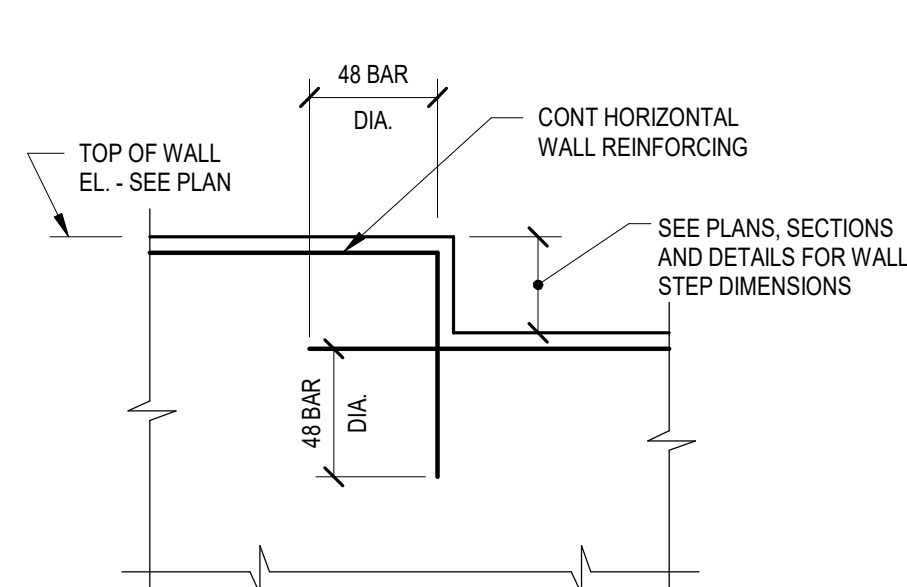
10 TYPICAL RE-ENTRANT CORNERS AT SLAB-ON-GRADE
1/2" = 1'-0"



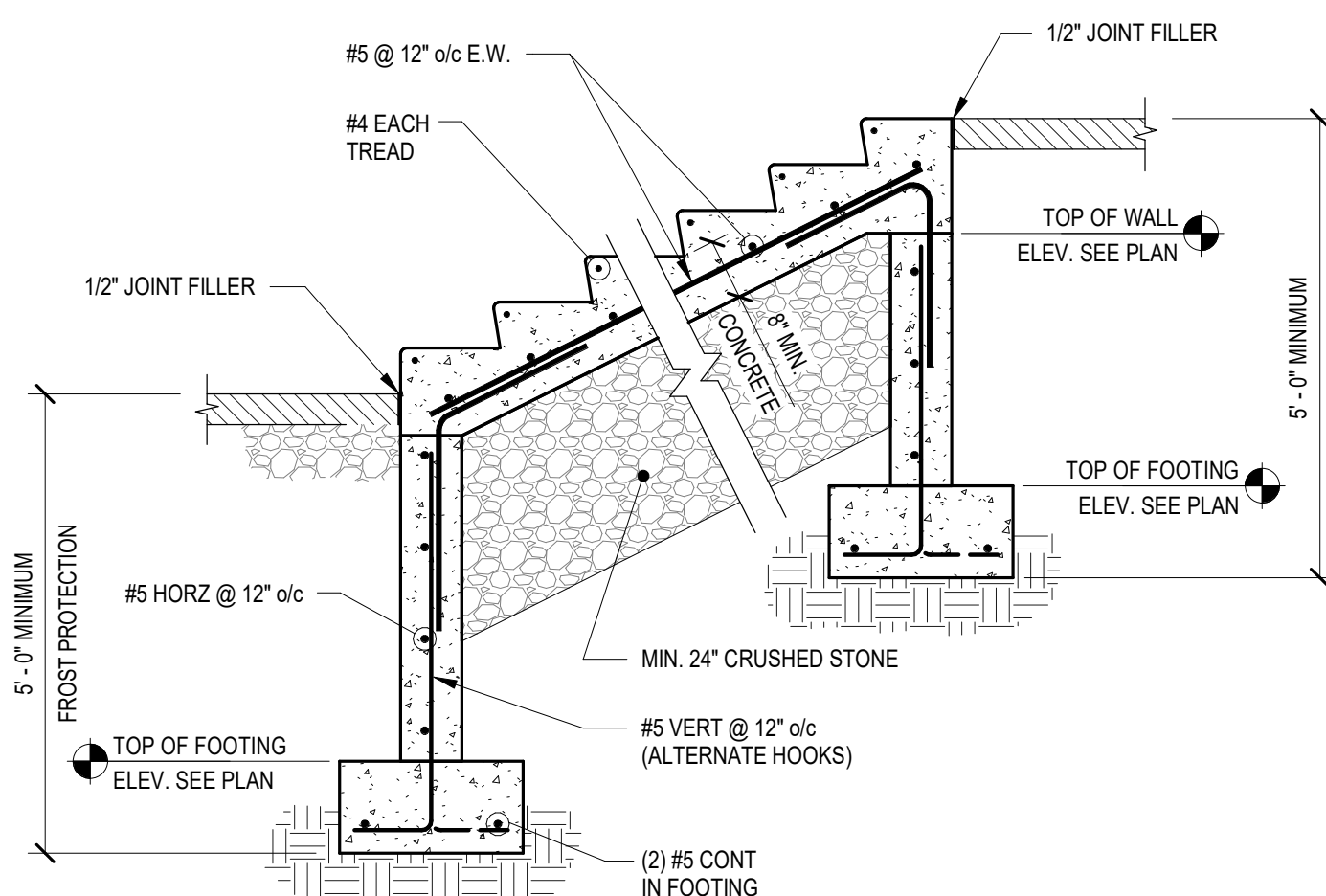
11 TYPICAL INTERIOR EQUIPMENT PAD DETAIL
1/2" = 1'-0"



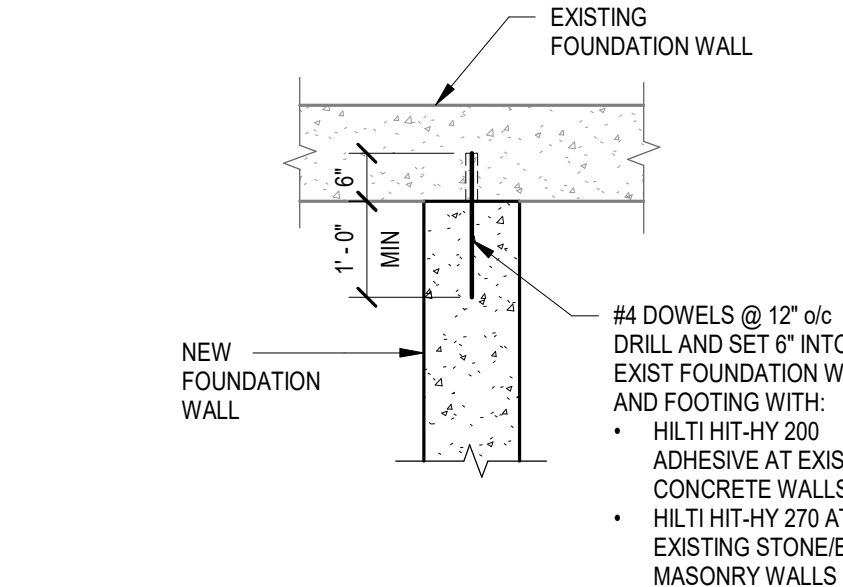
12 TYPICAL WALL CORNER REINFORCING
1/2" = 1'-0"



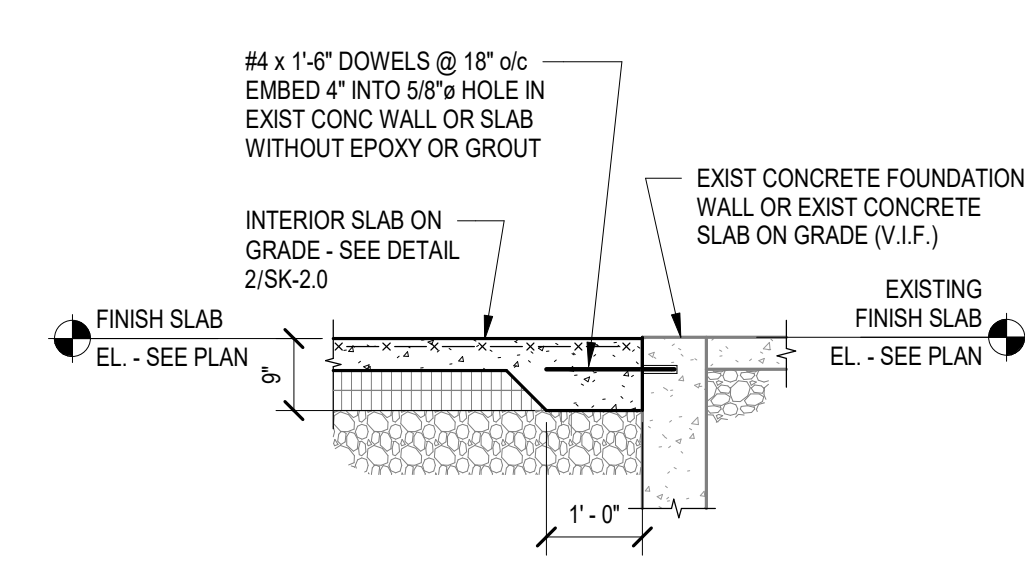
13 TYPICAL WALL STEP DETAIL
1/2" = 1'-0"



14 TYPICAL EXTERIOR STAIR DETAIL
1/2" = 1'-0"



15 TYPICAL JOINT DETAIL OF NEW/EXISTING FOUNDATION WALL
1/2" = 1'-0"



16 TYPICAL JOINT DETAIL OF NEW/EXISTING SLAB
1/2" = 1'-0"

#	Date	Description
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PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

STATE OF NEW HAMPSHIRE
ROBERT NEED, P.E.
No. 09172

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

TYPICAL
FOUNDATION
DETAILS

SK-2.0

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
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KUA DORM PROJECT
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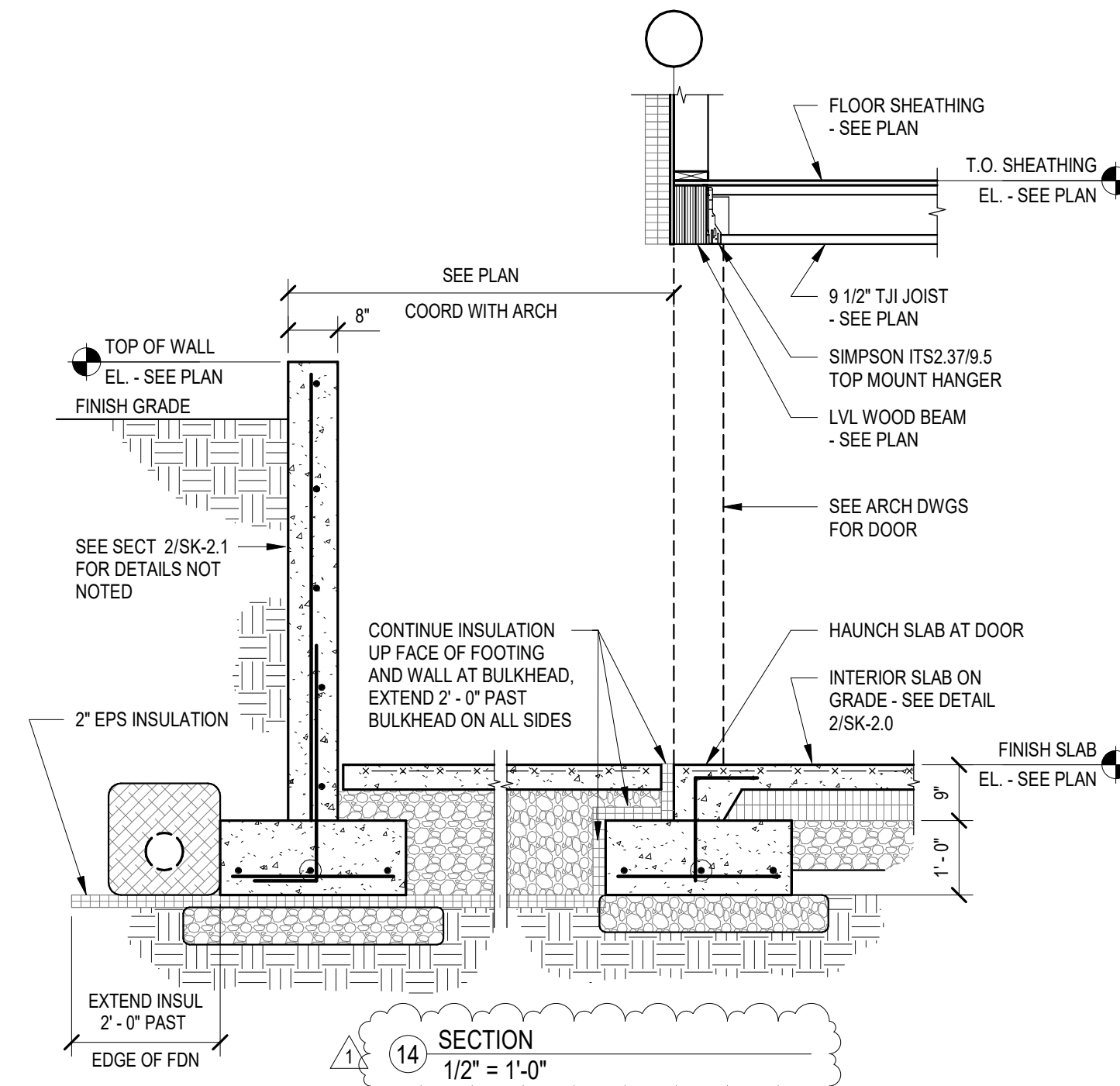
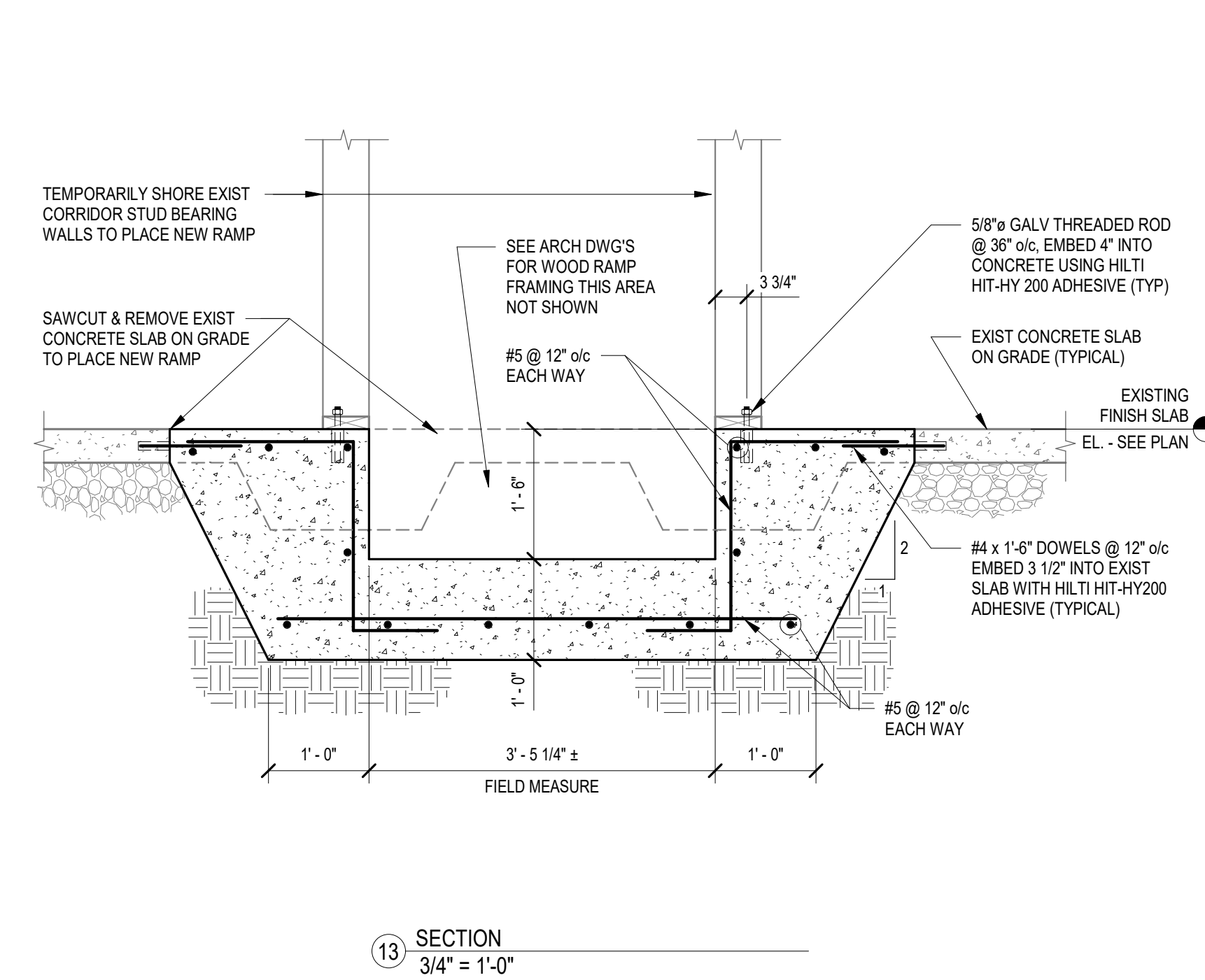
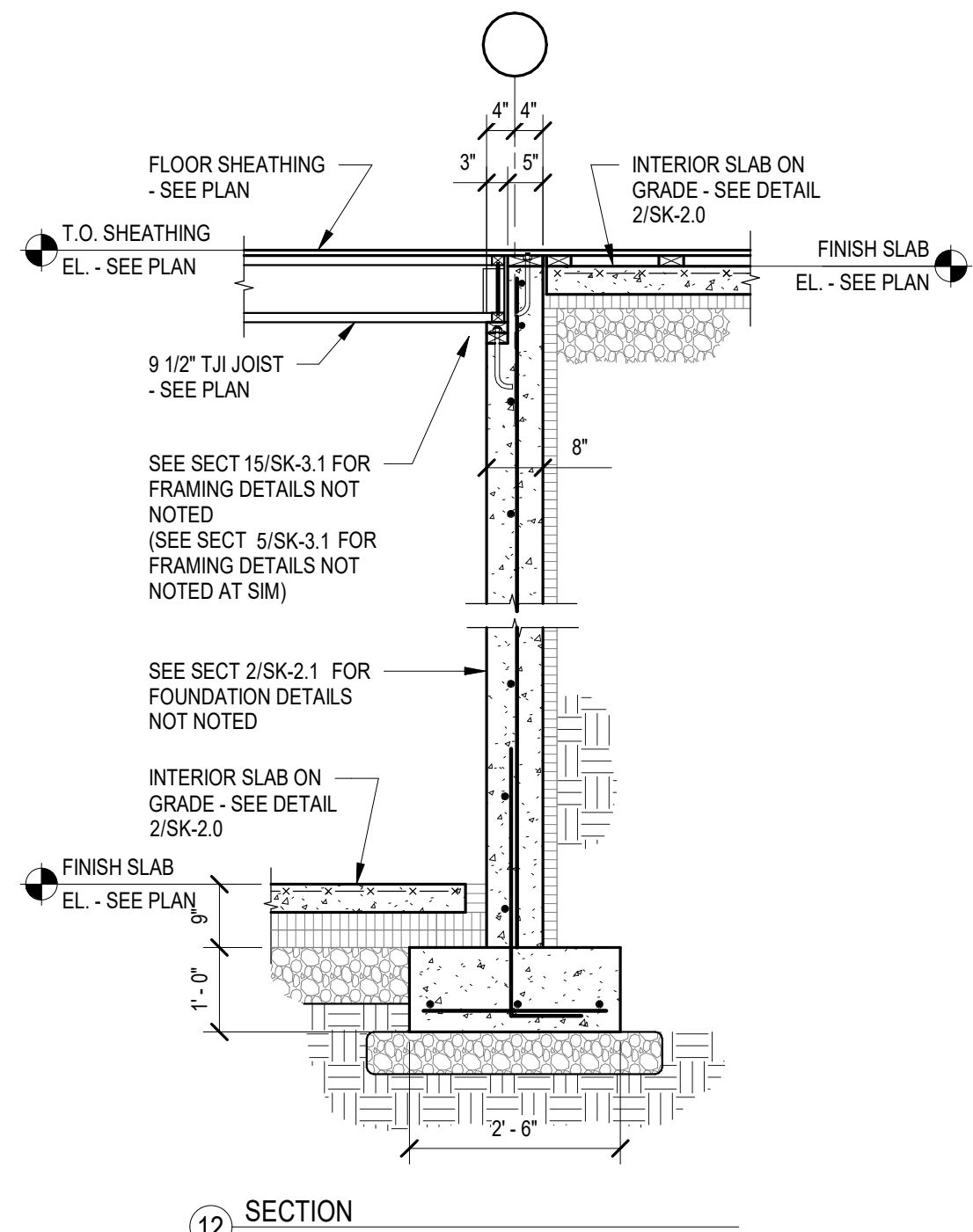
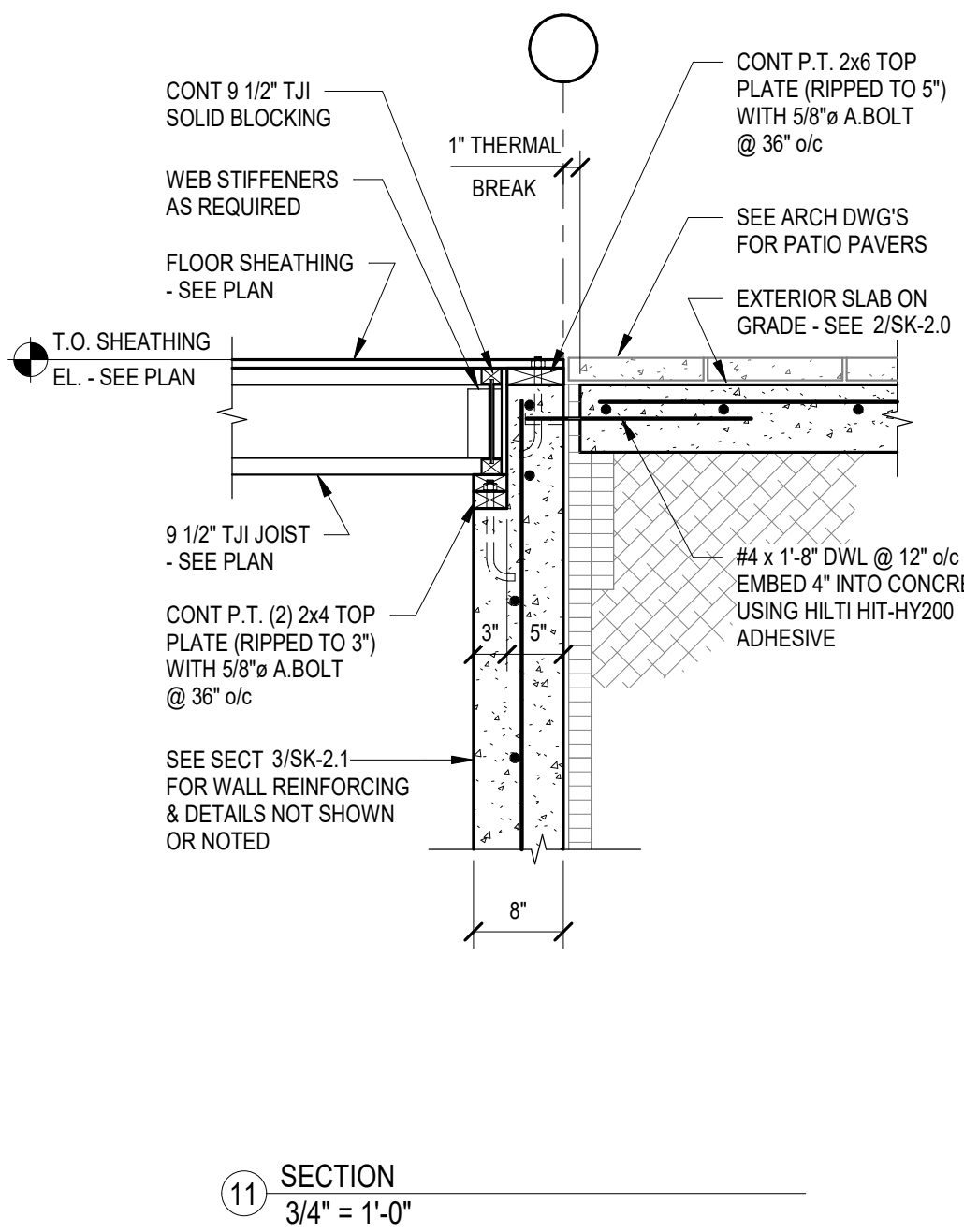
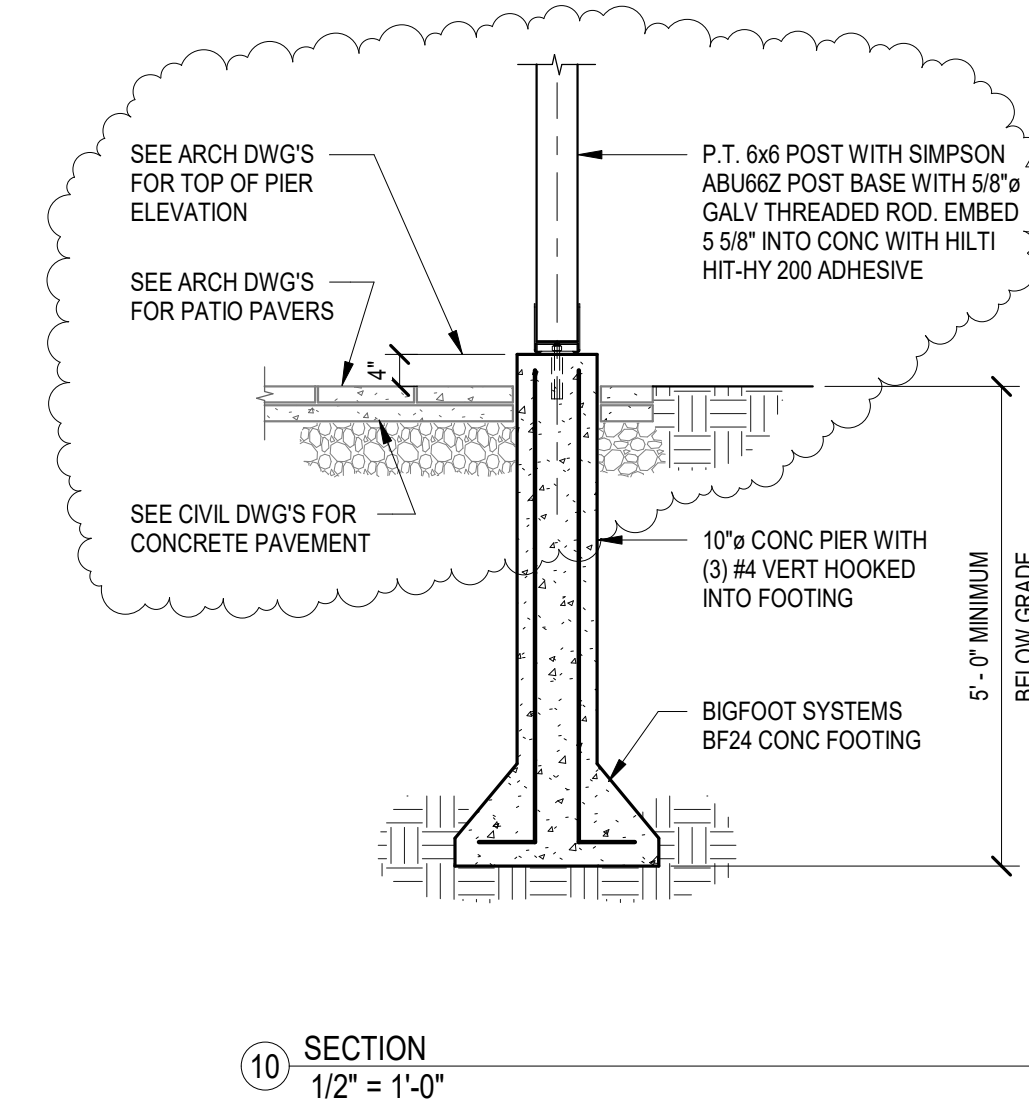
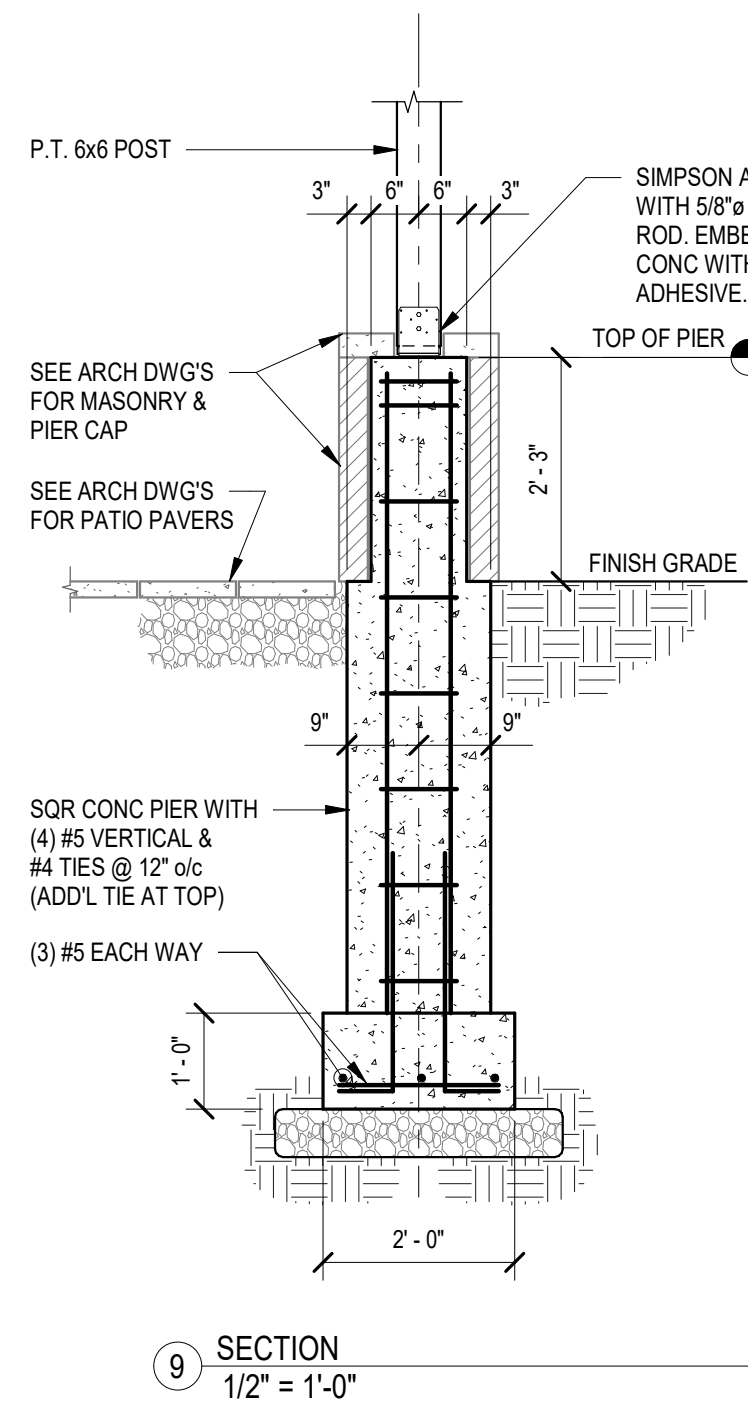
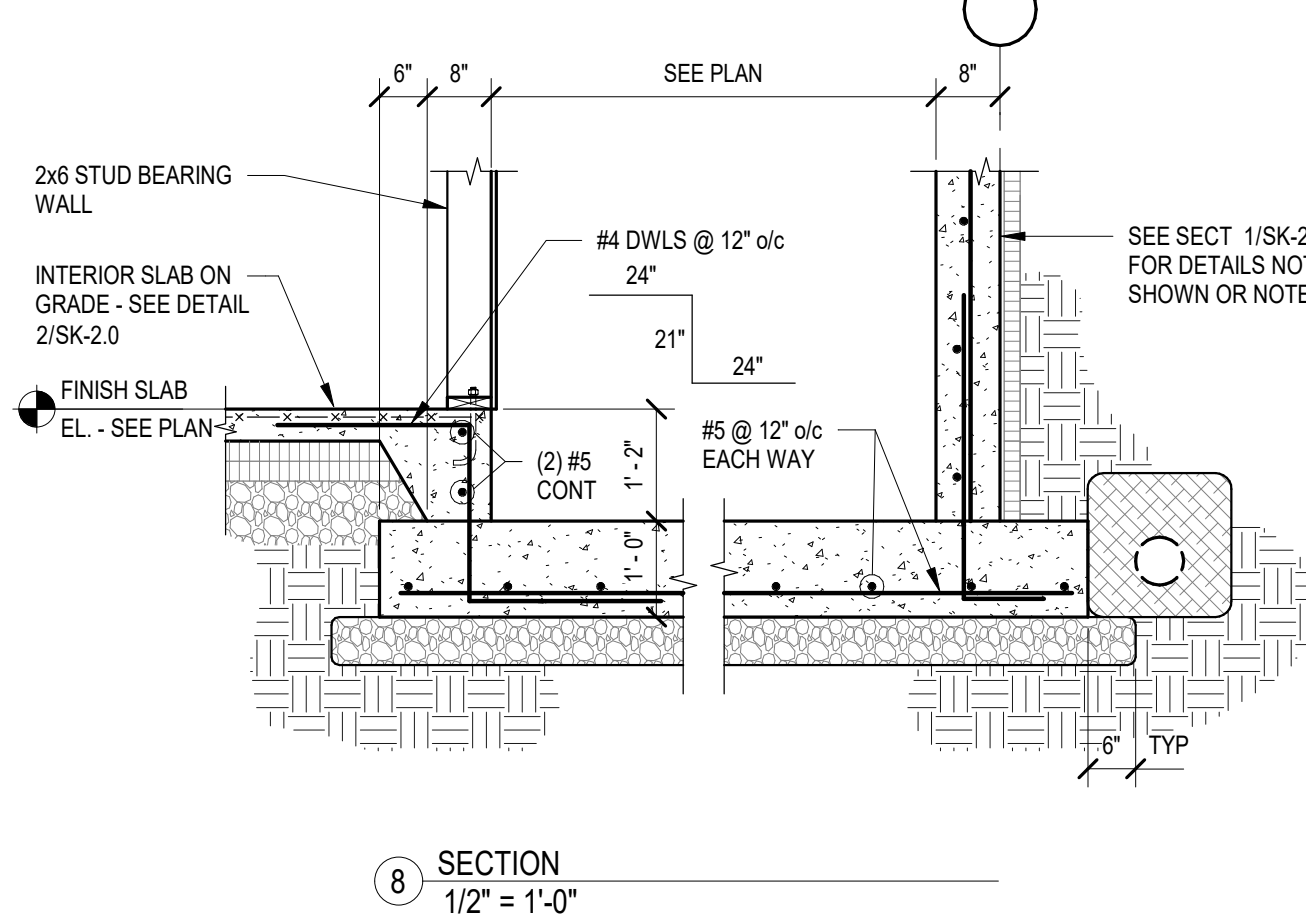
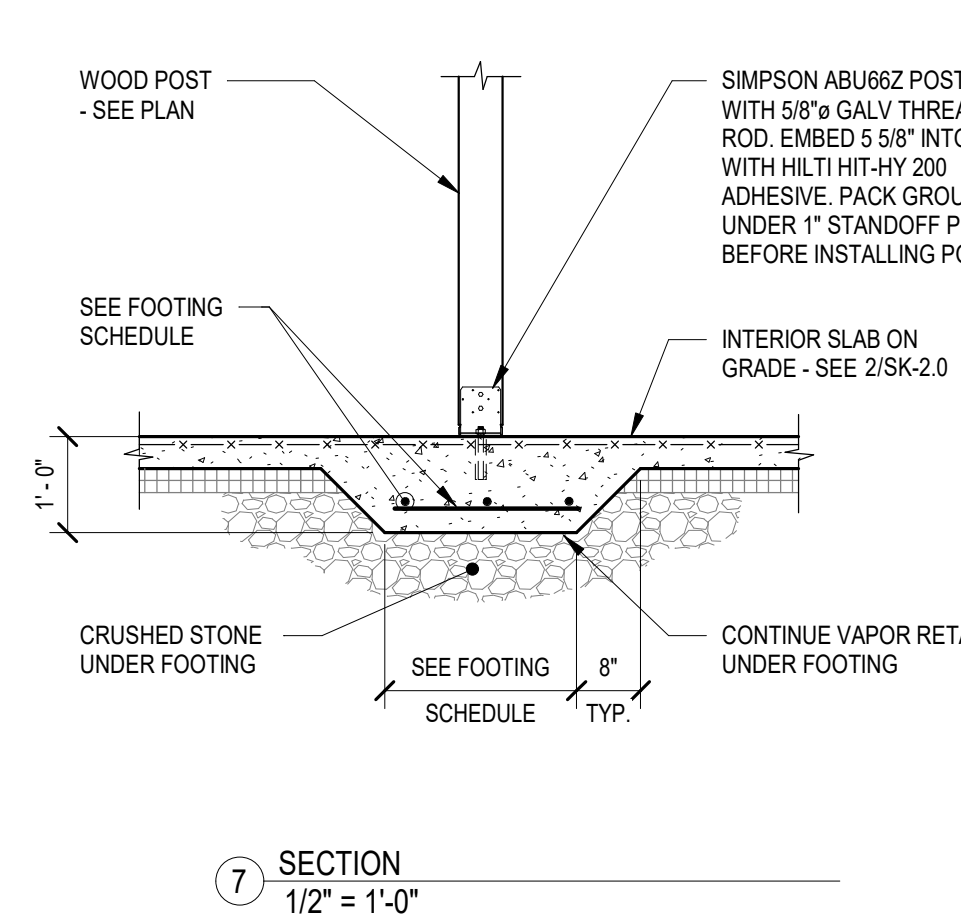
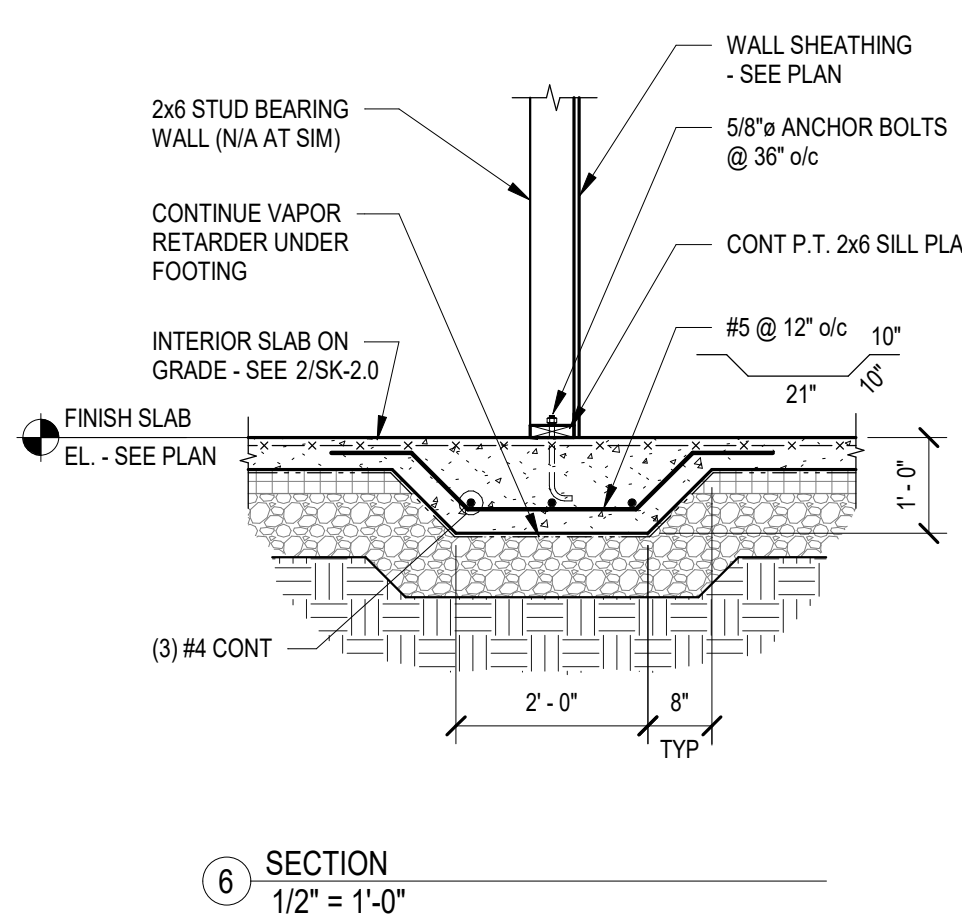
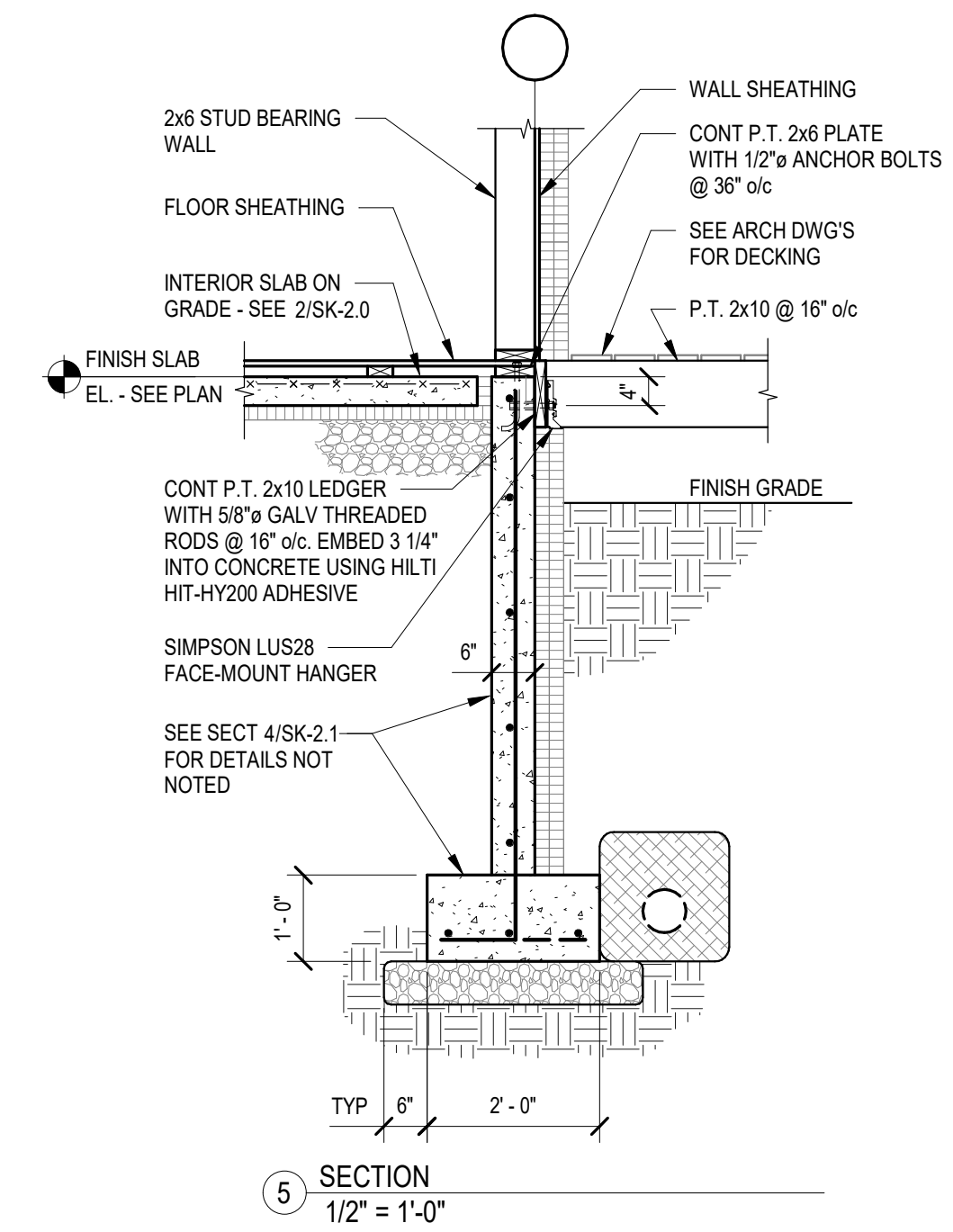
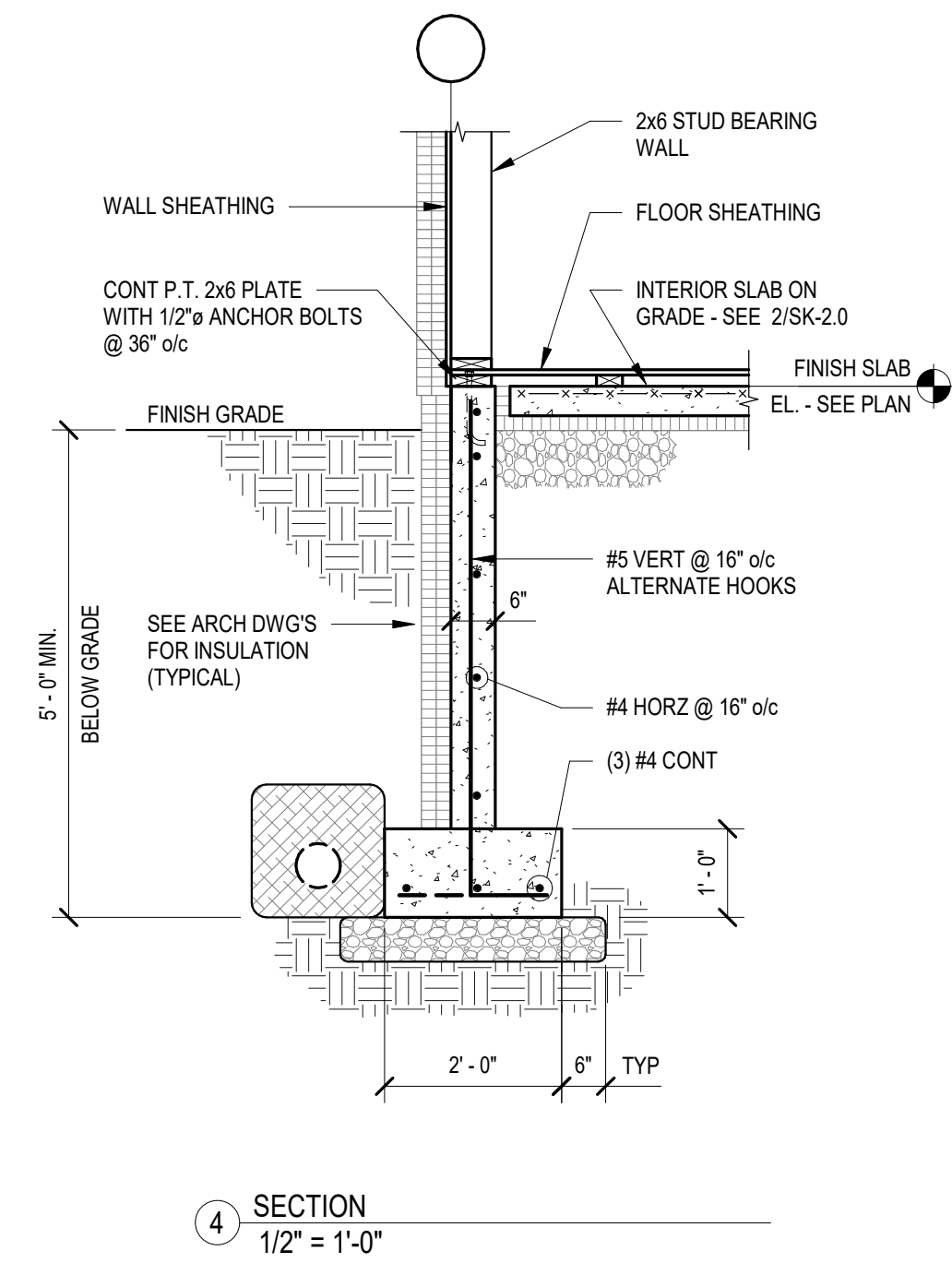
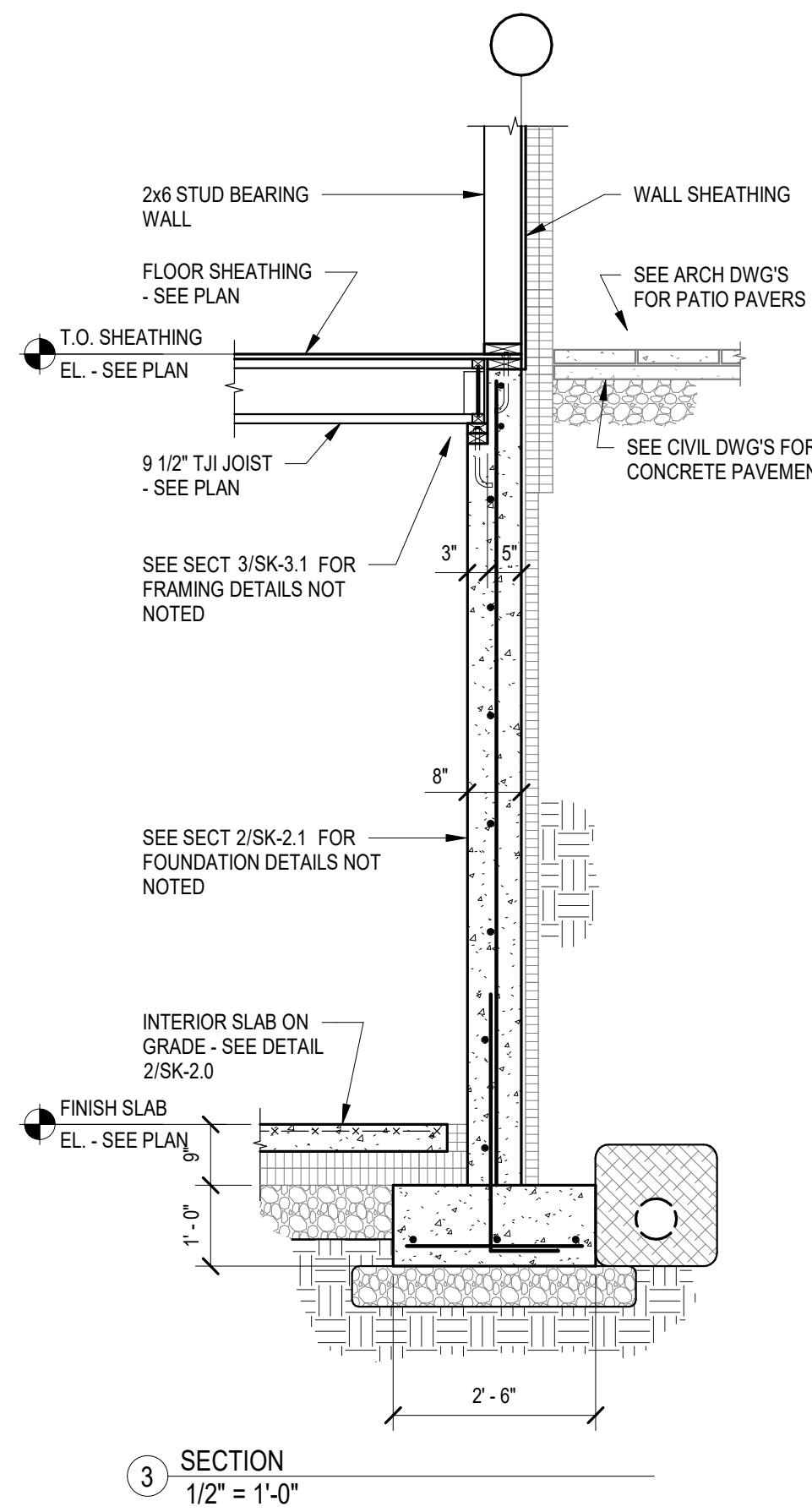
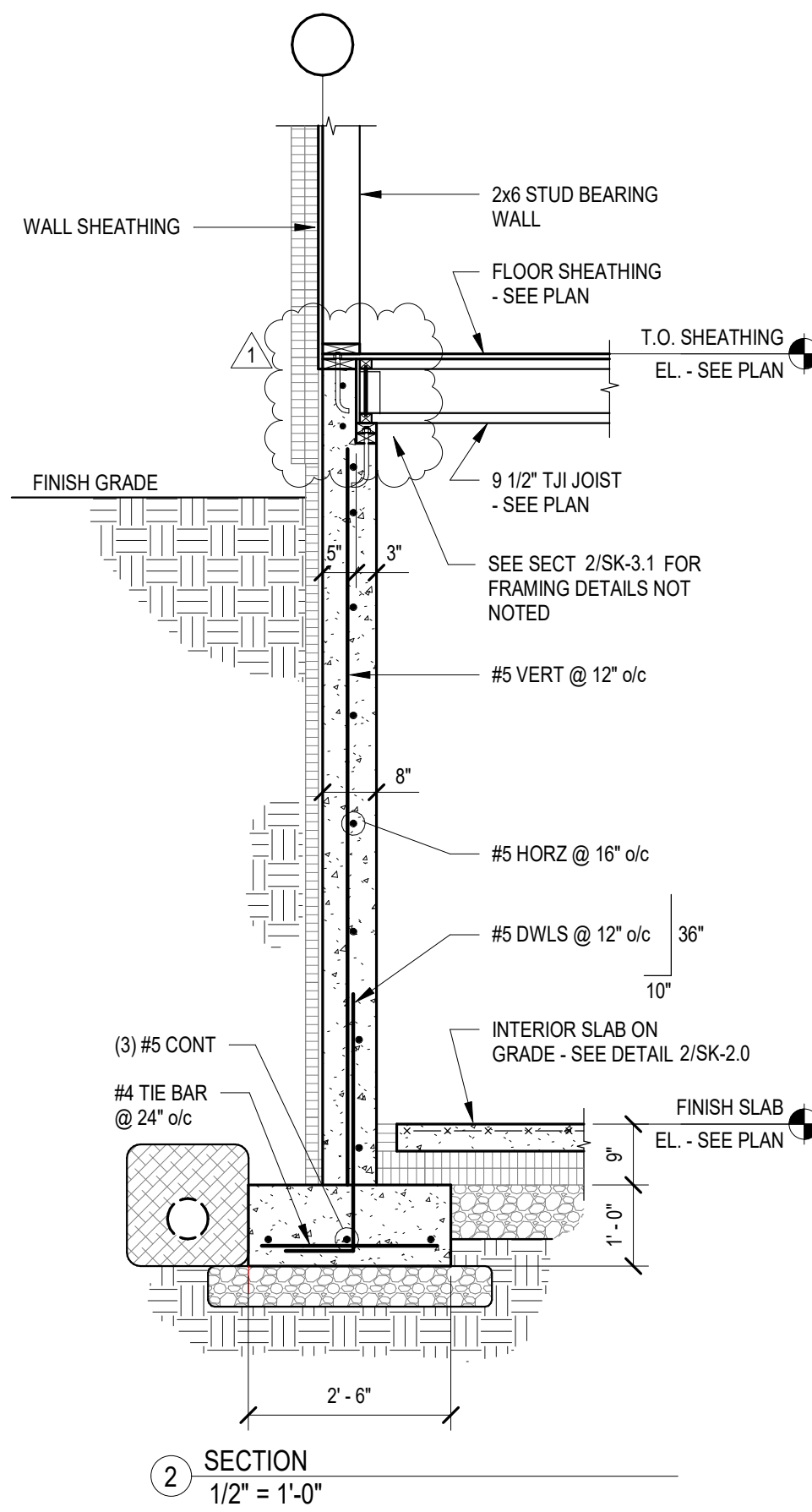
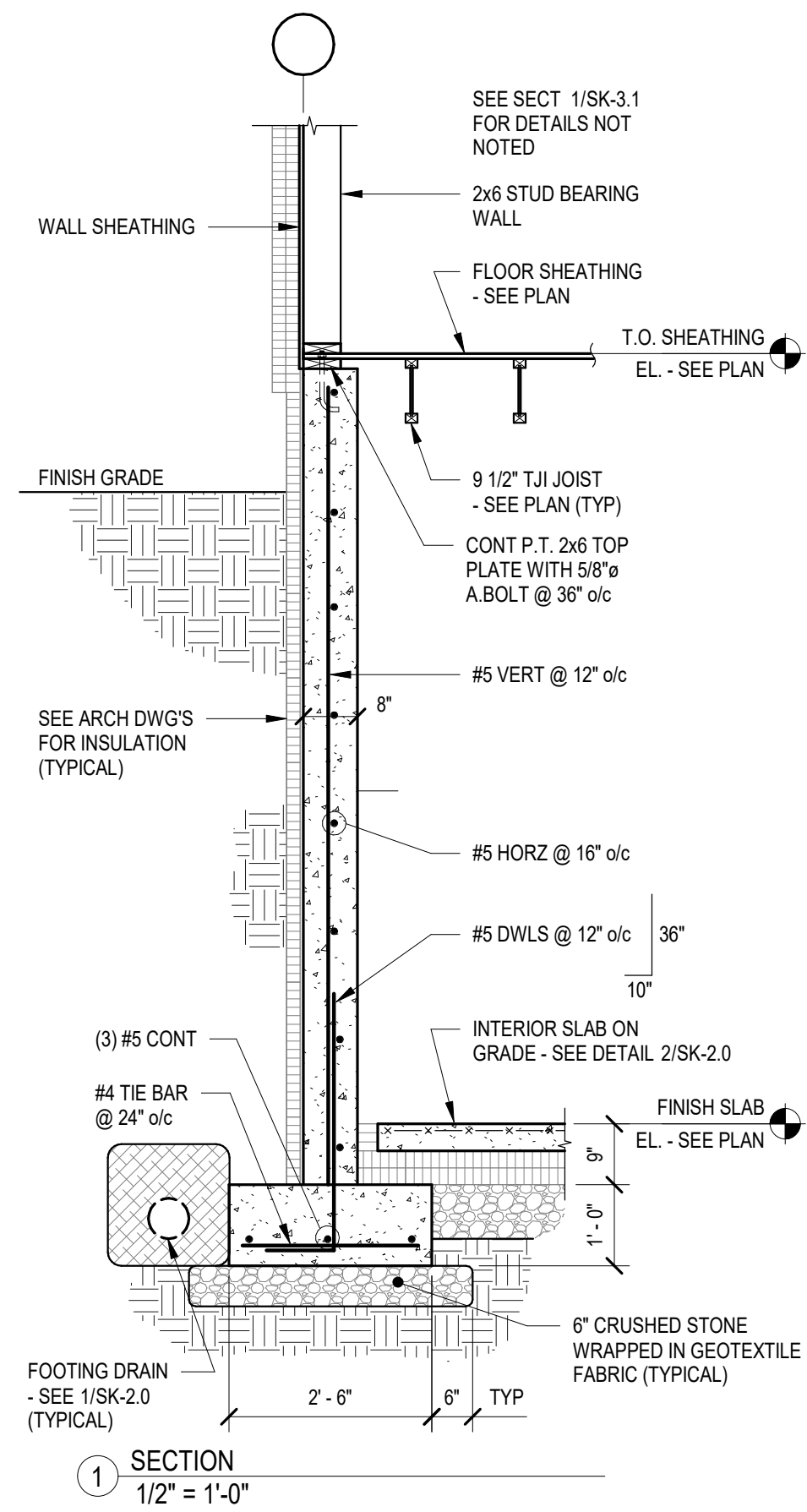


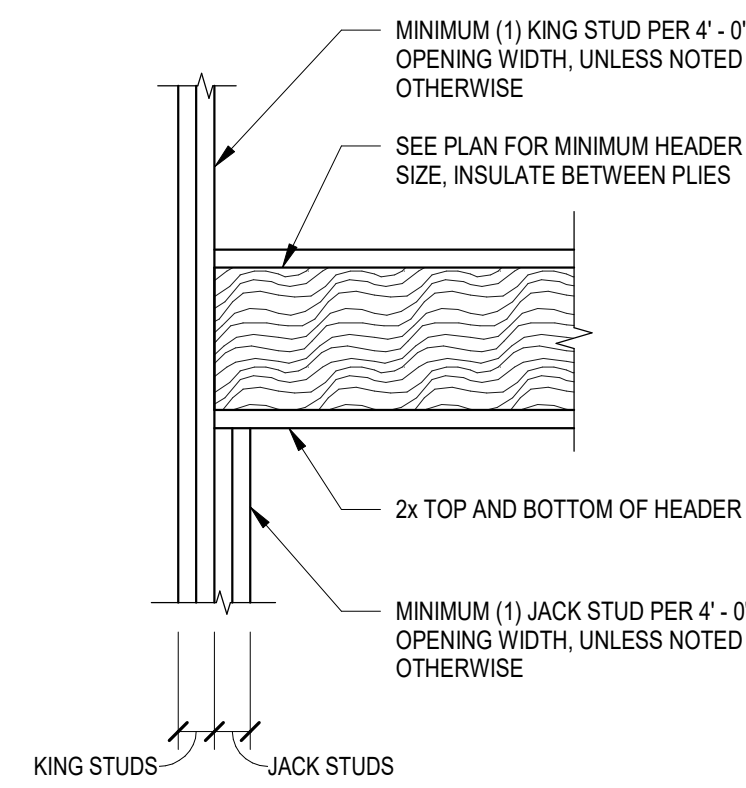
KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

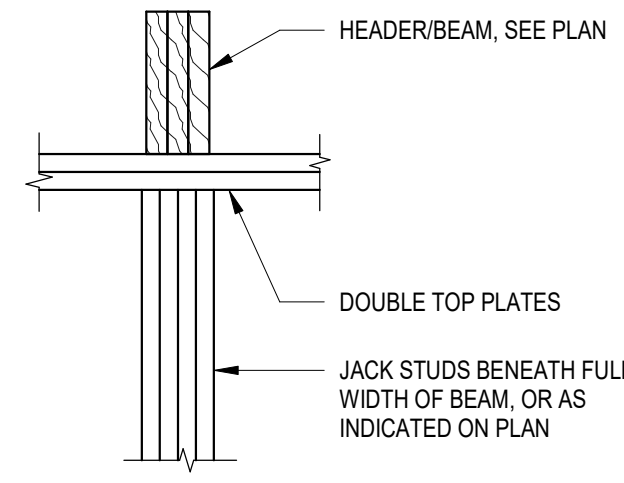
FOUNDATION
DETAILS

SK-2.1

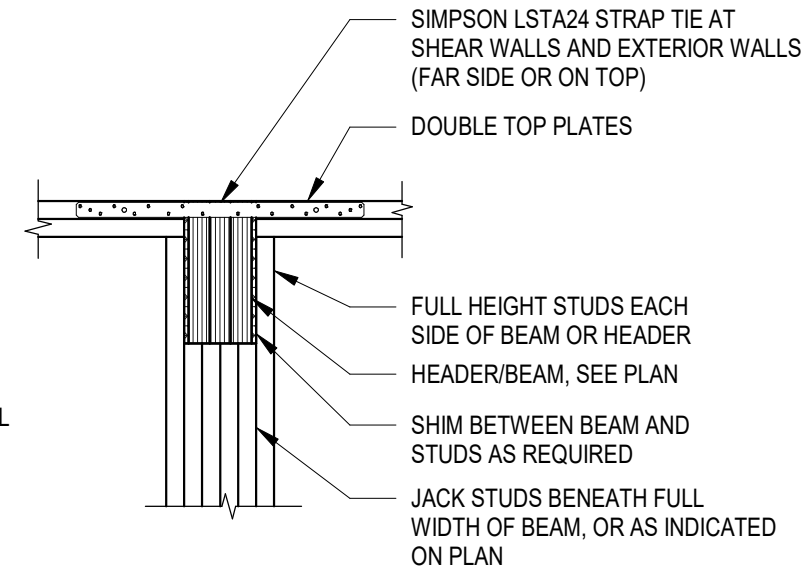




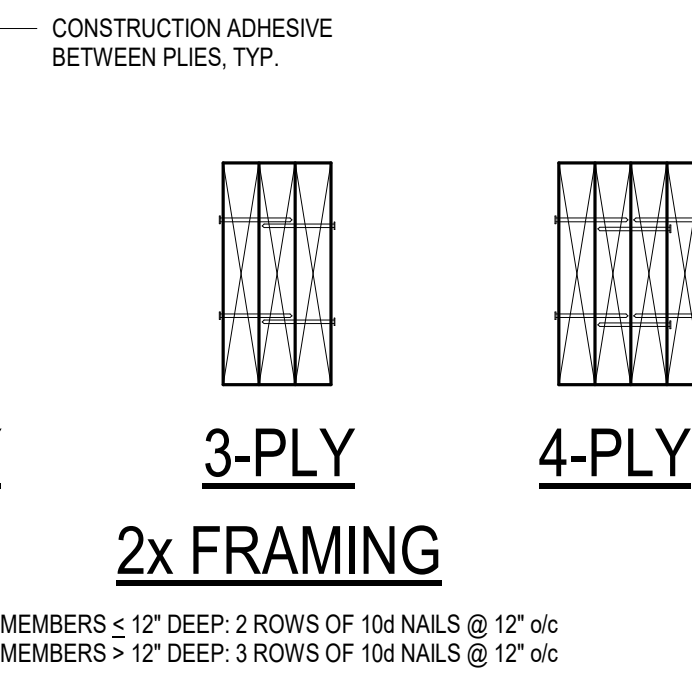
1 TYPICAL WOOD HEADER AT WALL OPENING
3/4" = 1'-0"



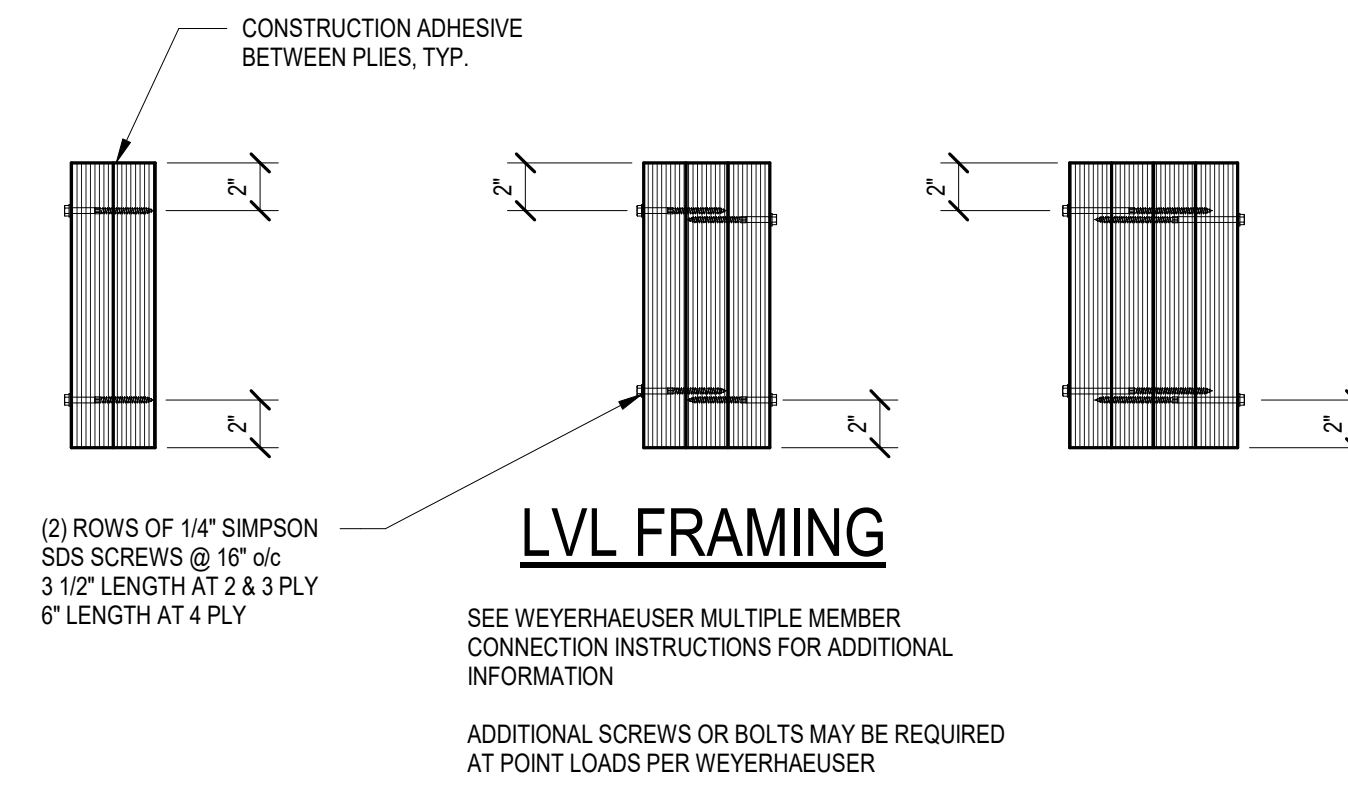
2 TYPICAL WOOD BEAM BEARING PERPENDICULAR TO WALL
3/4" = 1'-0"



DETAIL AT DROPPED BEAM

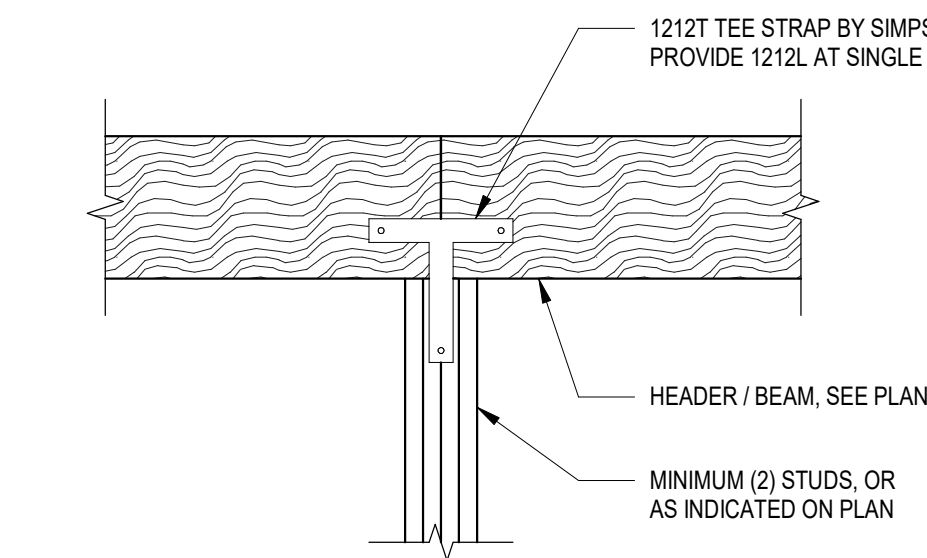


3 TYPICAL MULTI-MEMBER BEAM CONNECTION
1 1/2" = 1'-0"

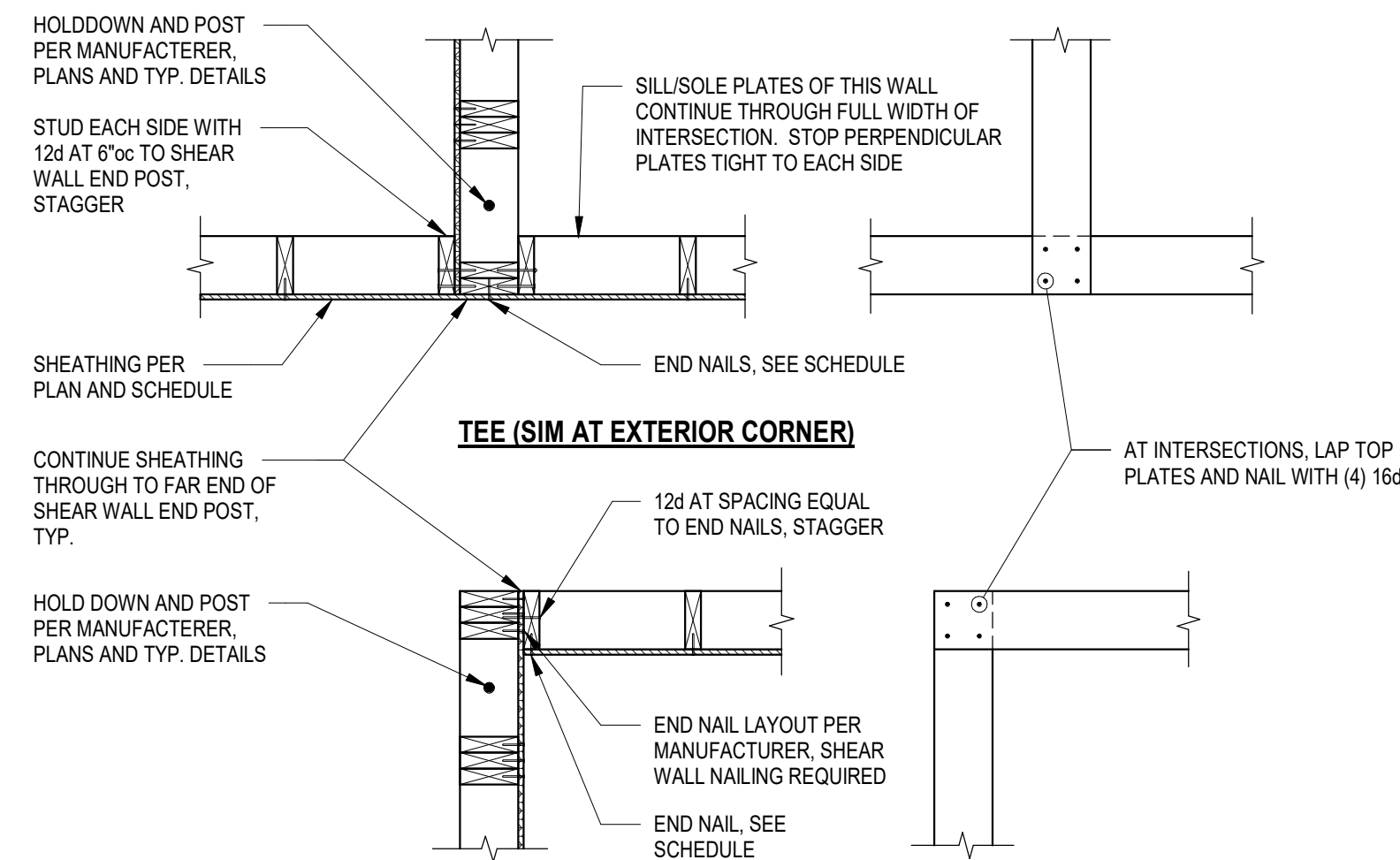


LVL FRAMING

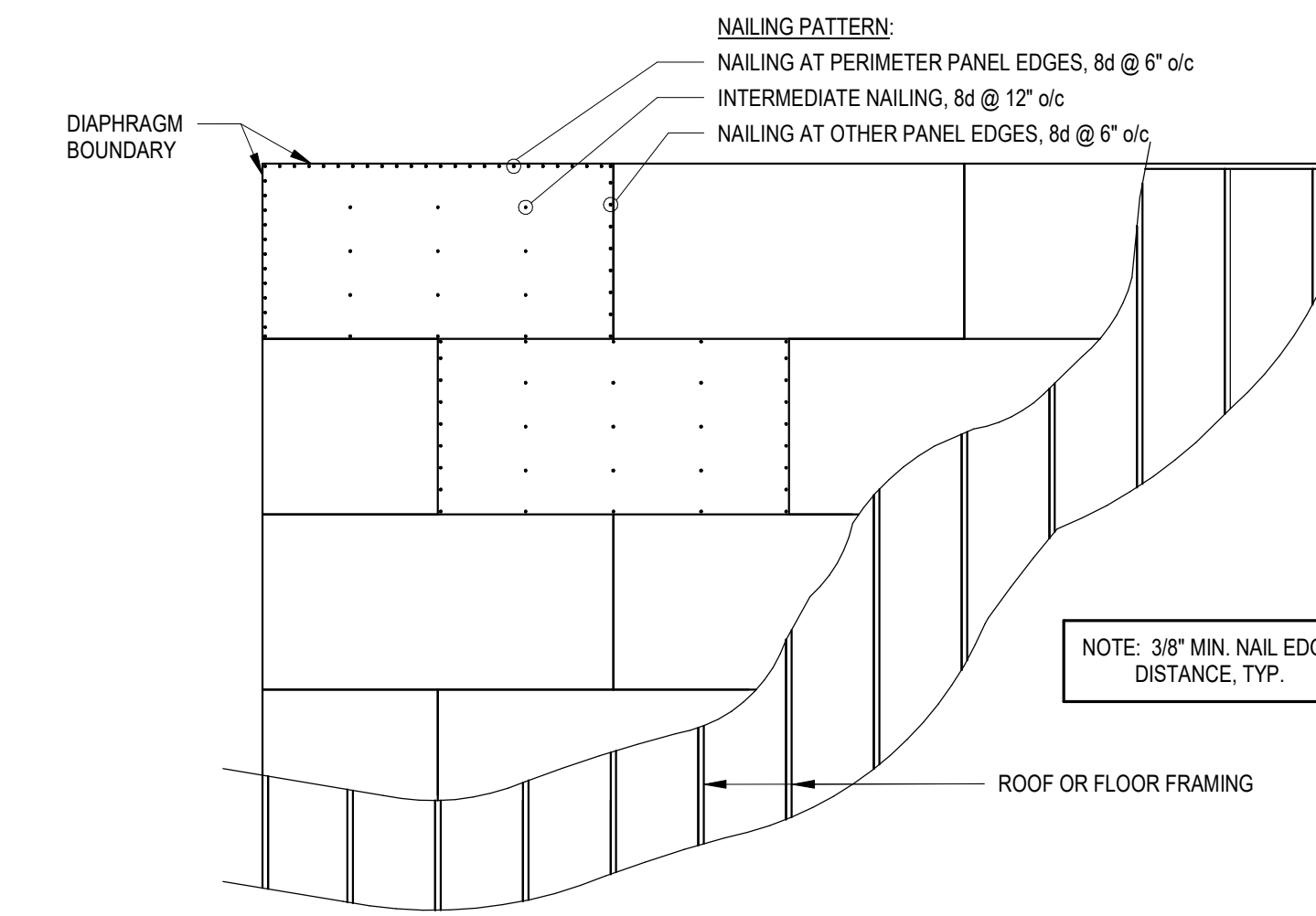
SEE WEYERHAEUSER MULTIPLE MEMBER CONNECTION INSTRUCTIONS FOR ADDITIONAL INFORMATION
ADDITIONAL SCREWS OR BOLTS MAY BE REQUIRED AT POINT LOADS PER WEYERHAEUSER



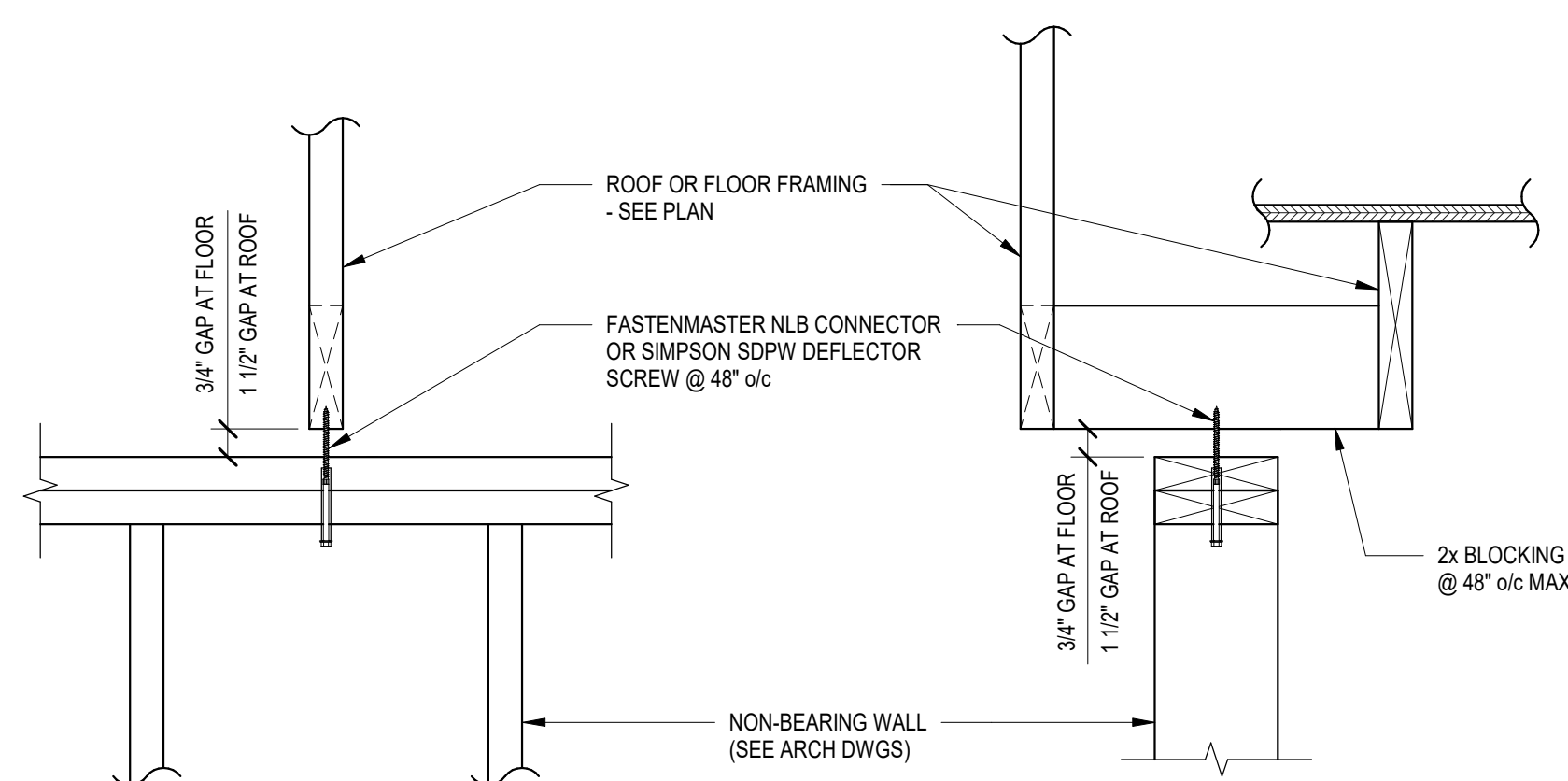
4 TYPICAL WOOD BEAM/HEADER
3/4" = 1'-0"



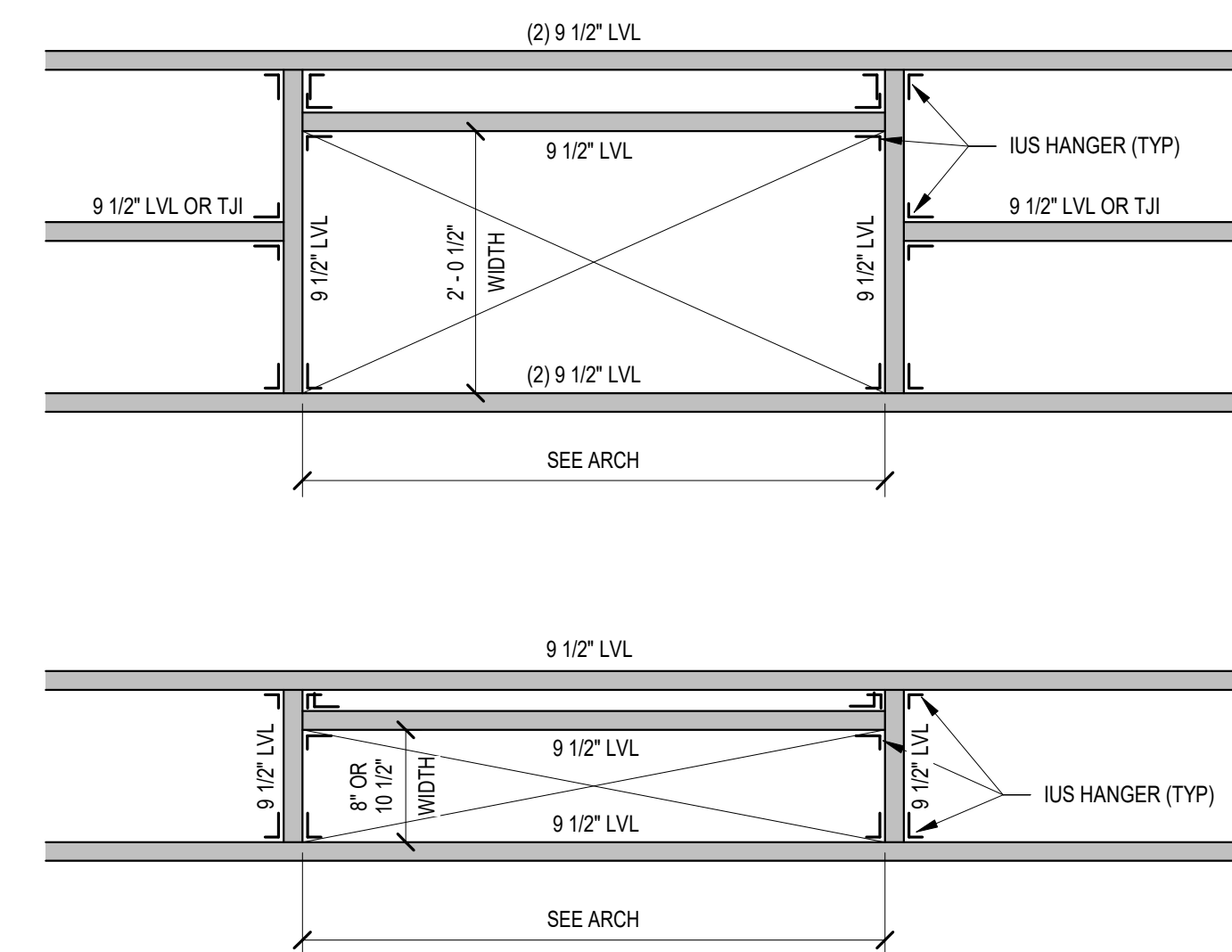
5 TYPICAL WOOD WALL INTERSECTIONS
3/4" = 1'-0"



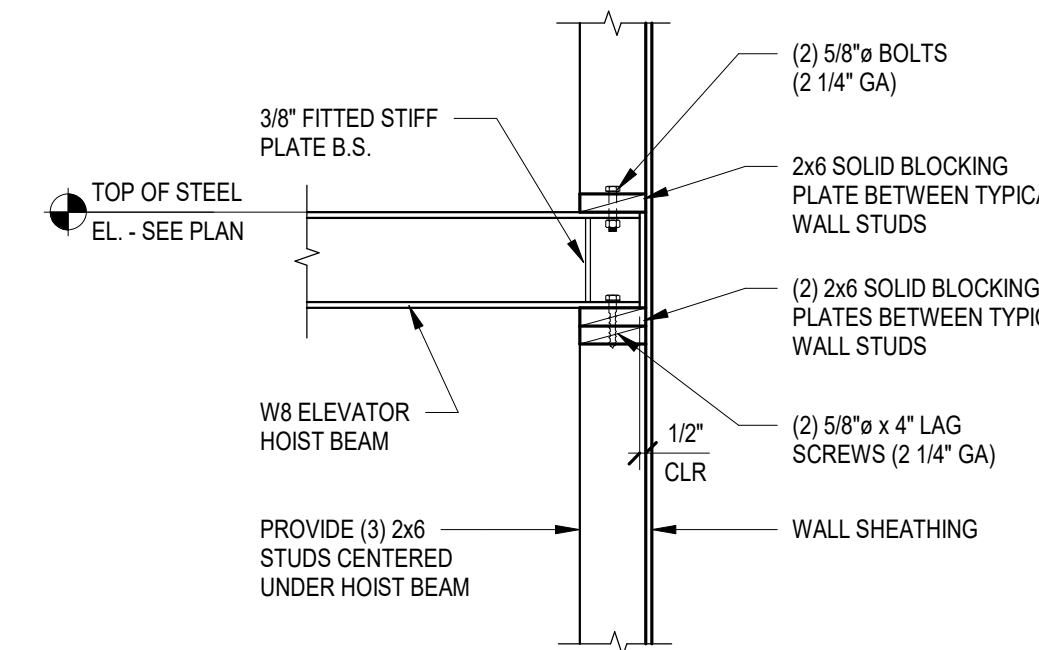
6 TYPICAL LAYOUT AND NAILING FOR FLOOR AND ROOF SHEATHING
3/4" = 1'-0"



7 TYPICAL SUPPORT AT TOP OF NON-BEARING WALLS
1 1/2" = 1'-0"



8 TYPICAL FRAMING AROUND CHASE OPENINGS
3/4" = 1'-0"



9 ELEVATOR HOIST BEAM END SUPPORT
3/4" = 1'-0"

#	Date	Description
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PERMIT SET
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KUA DORM PROJECT
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

TYPICAL FRAMING
DETAILS

SK-3.0

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
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KUA DORM PROJECT
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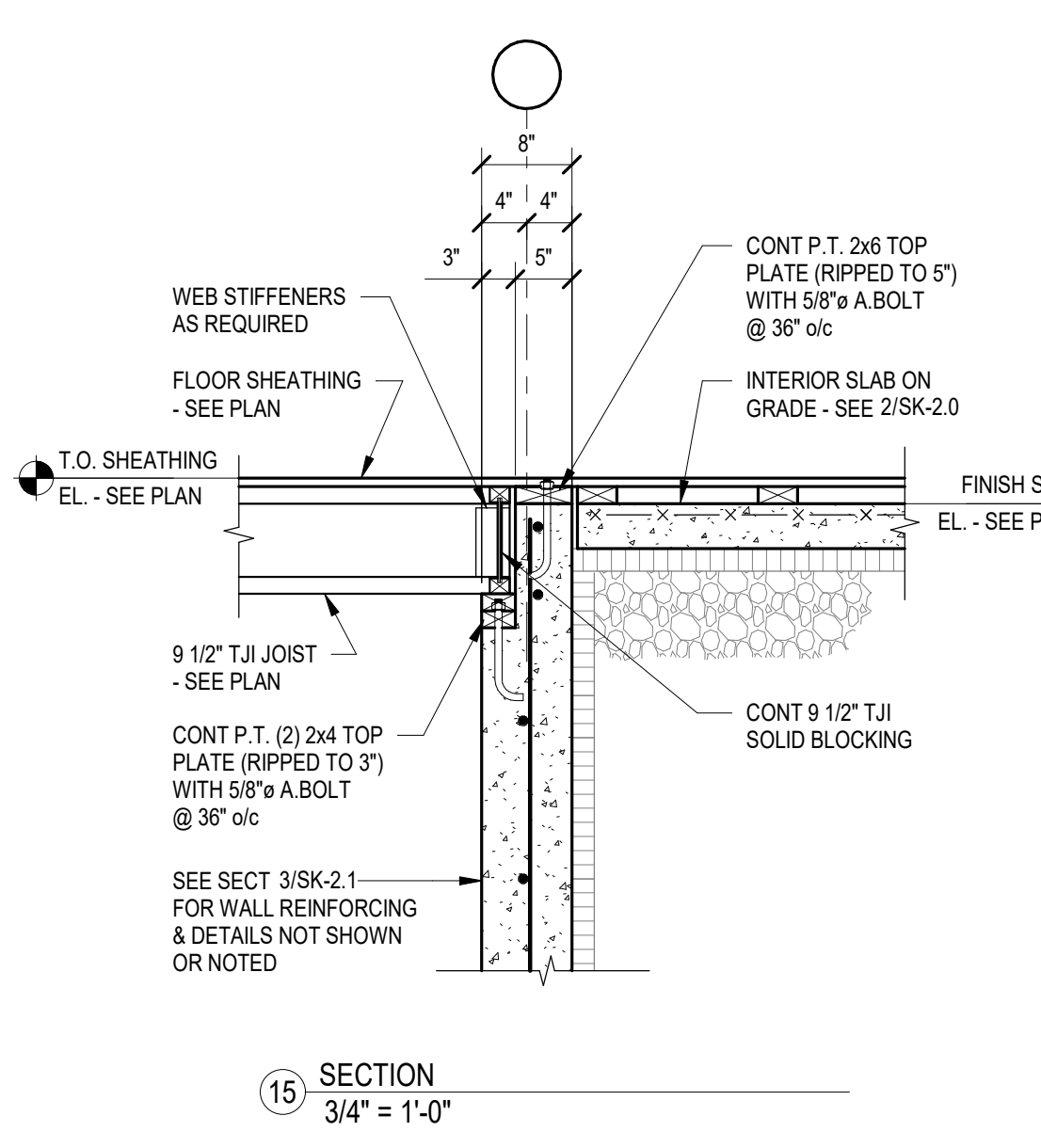
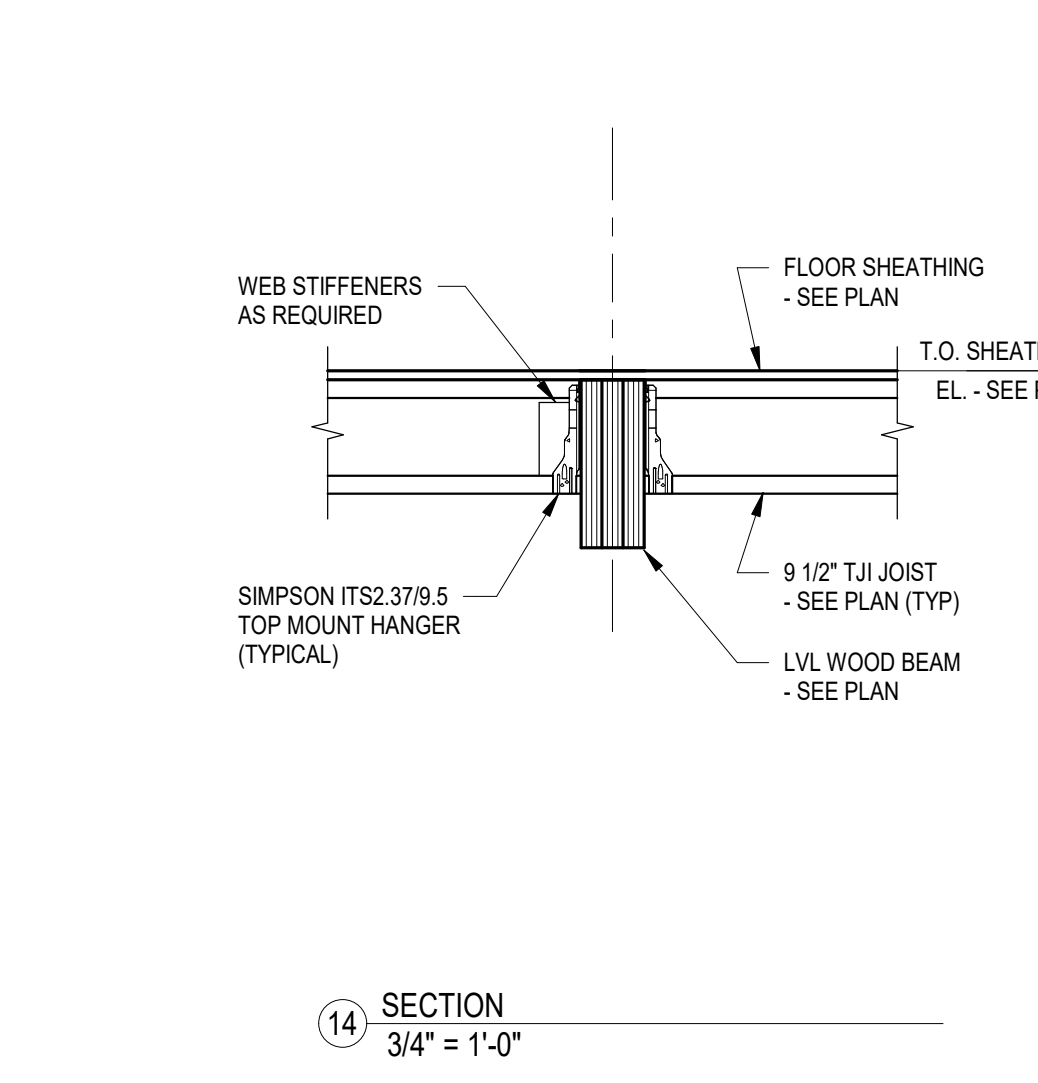
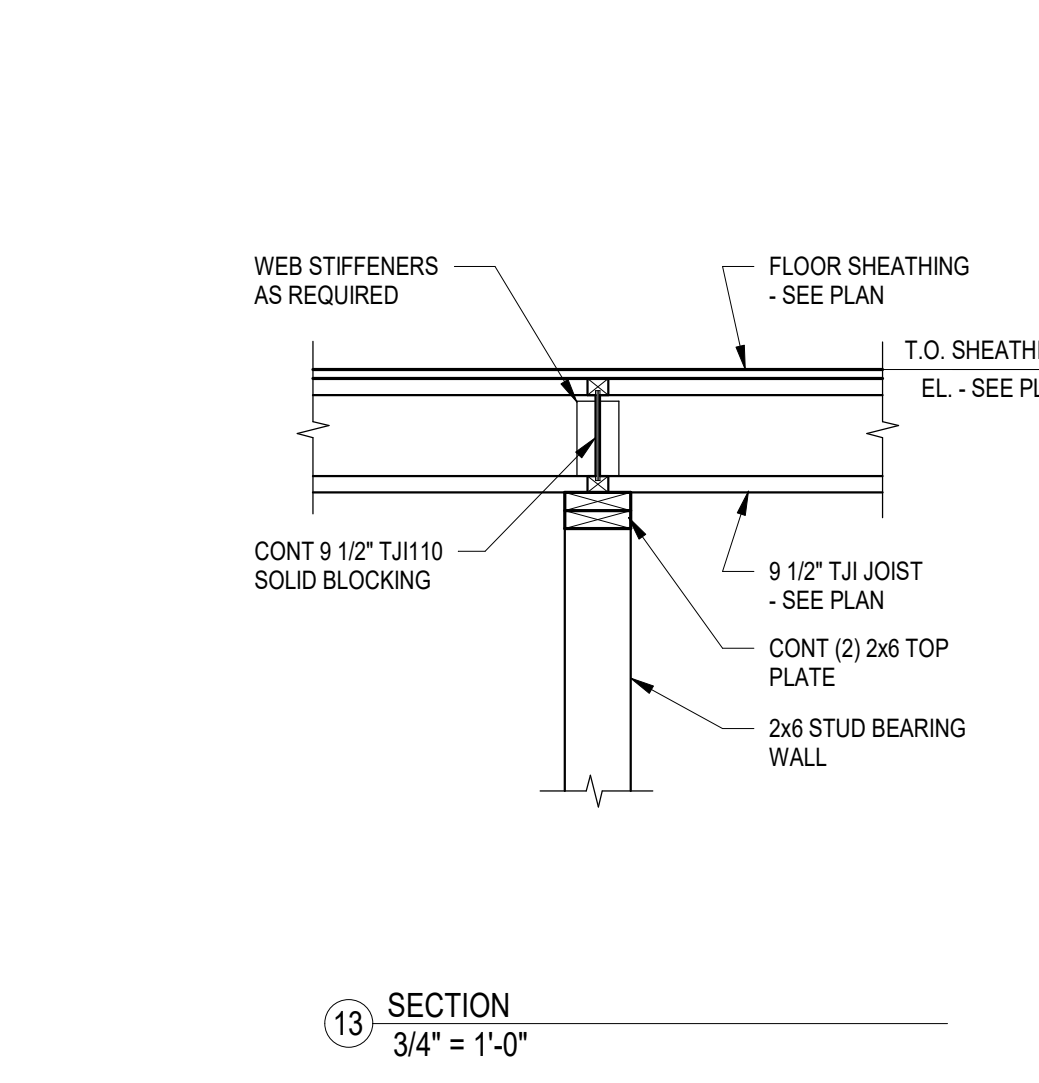
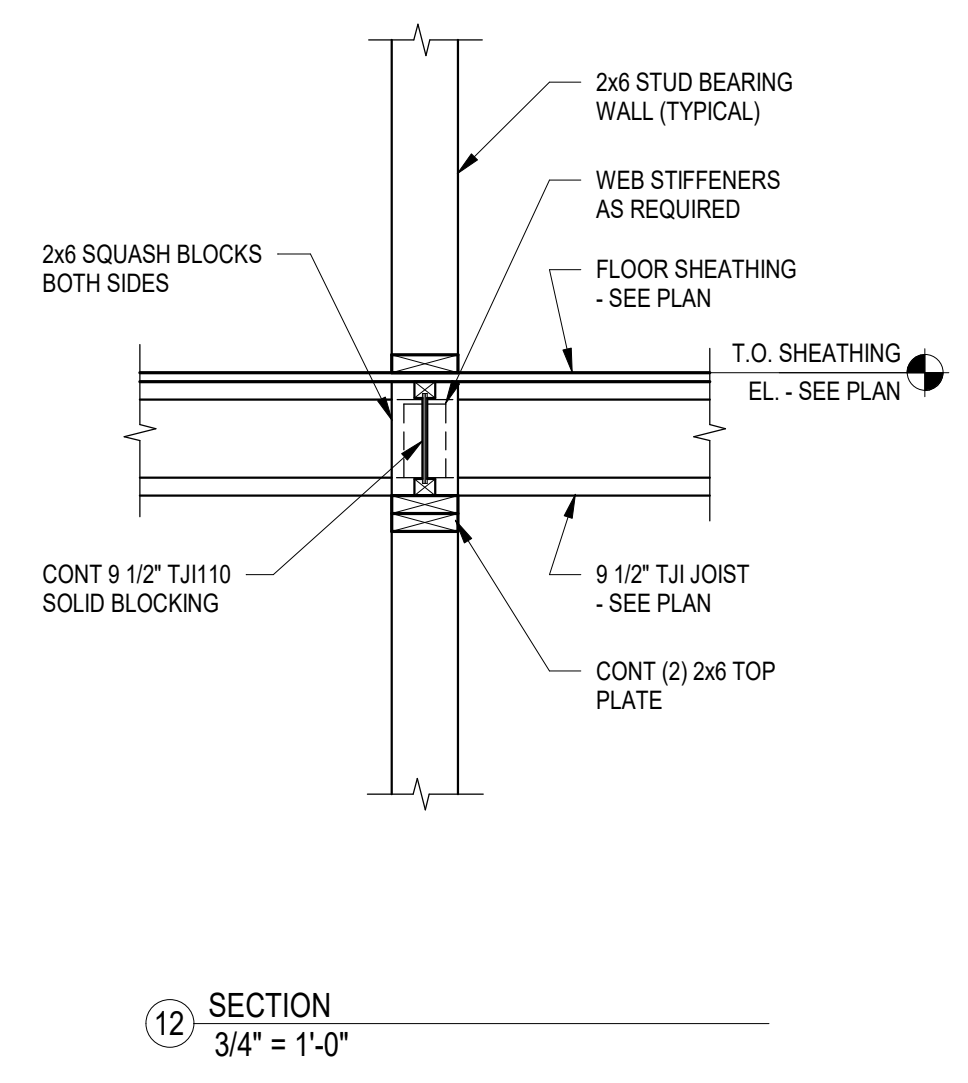
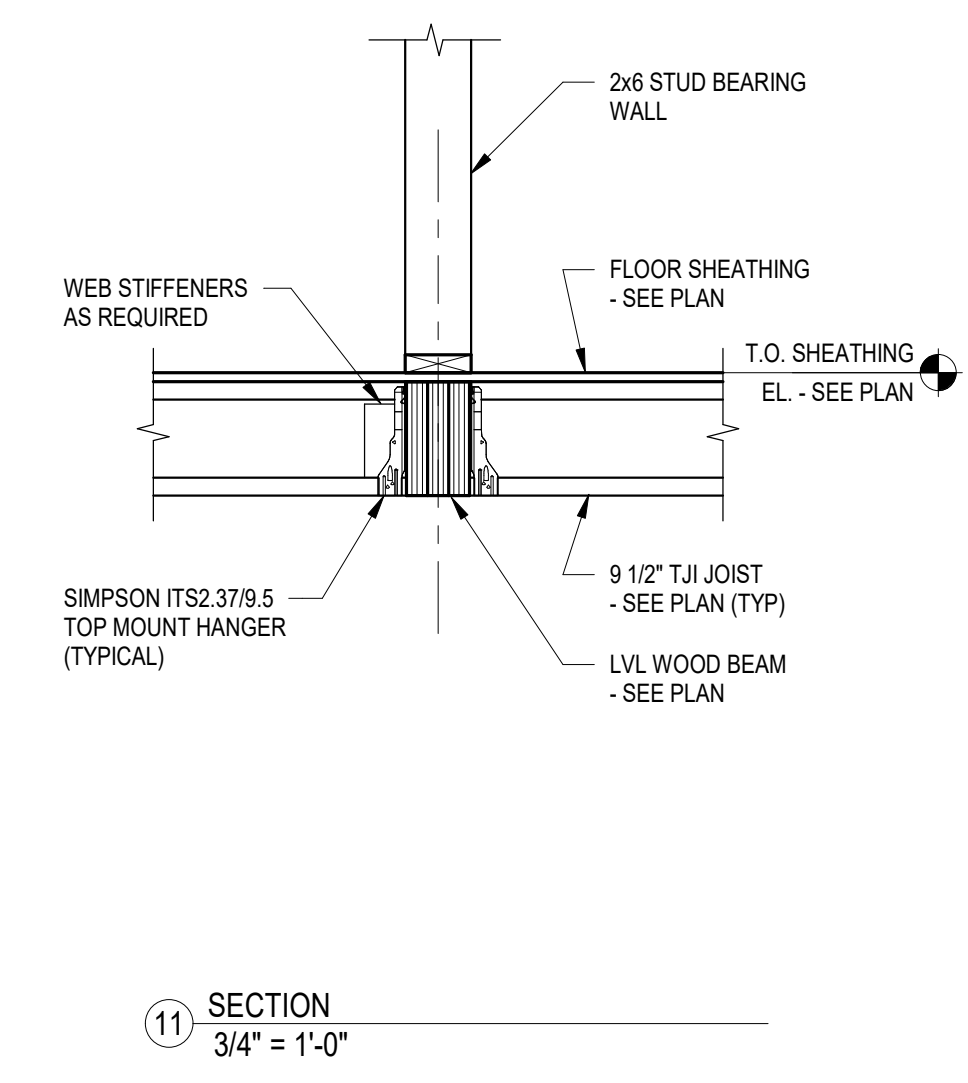
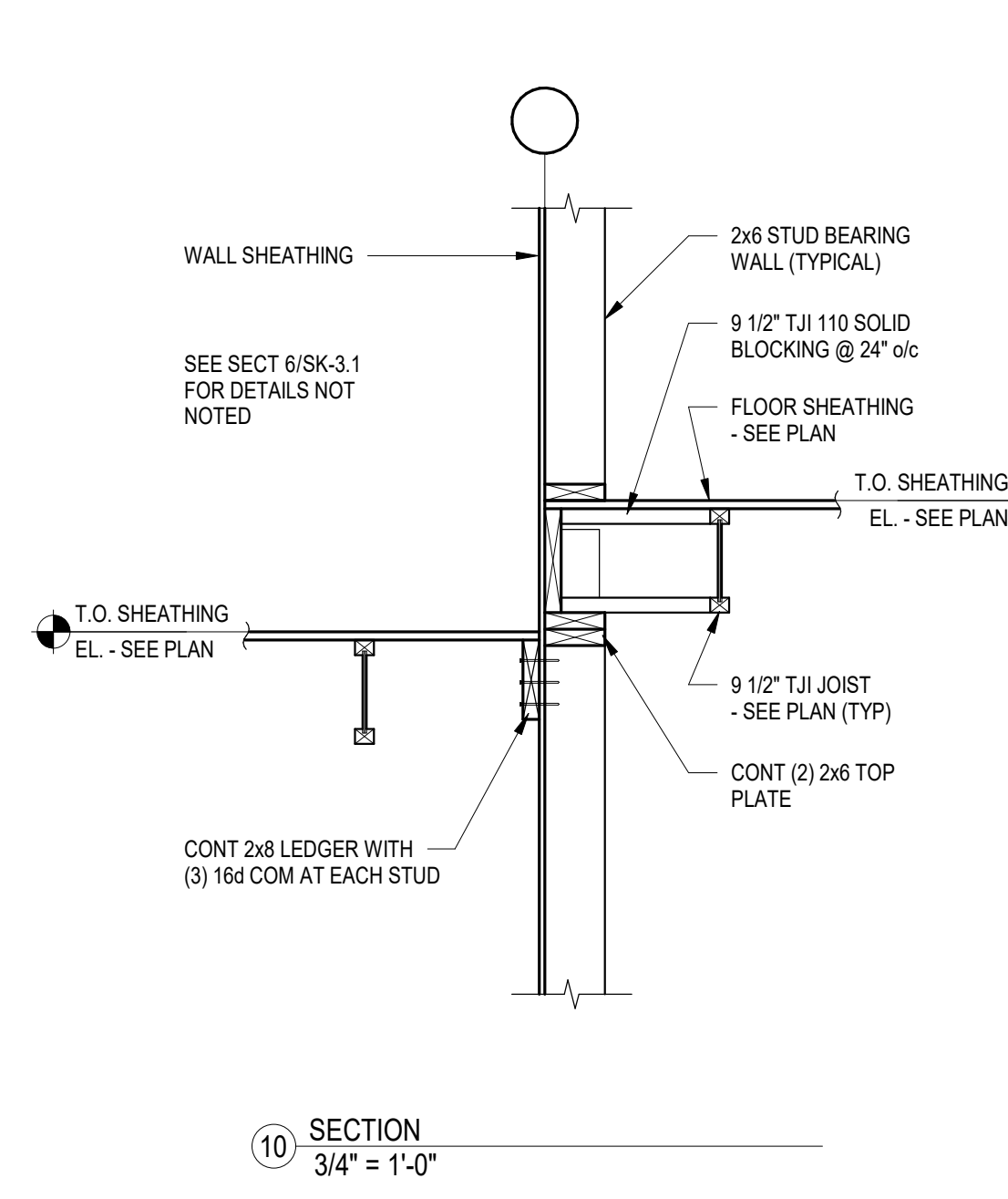
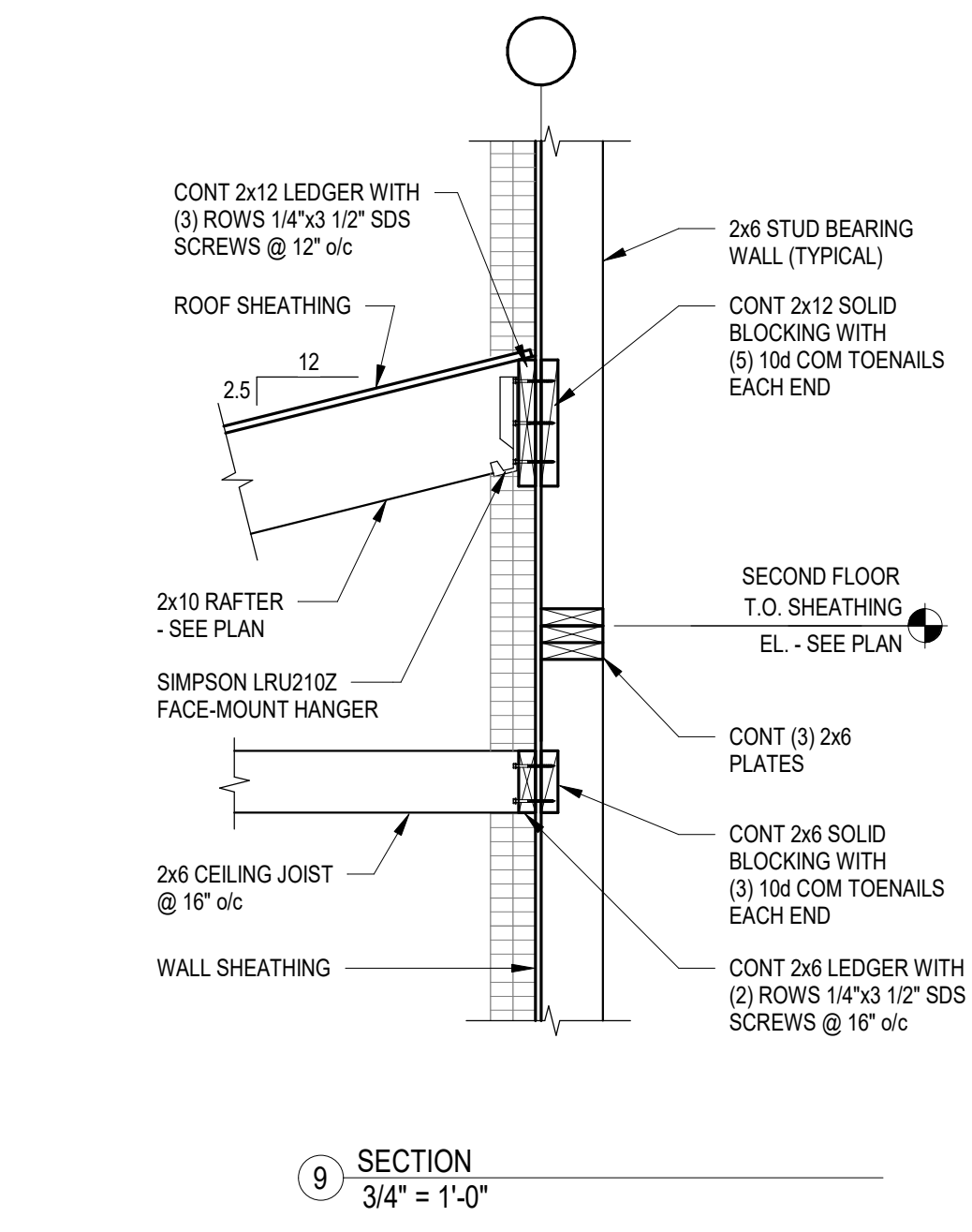
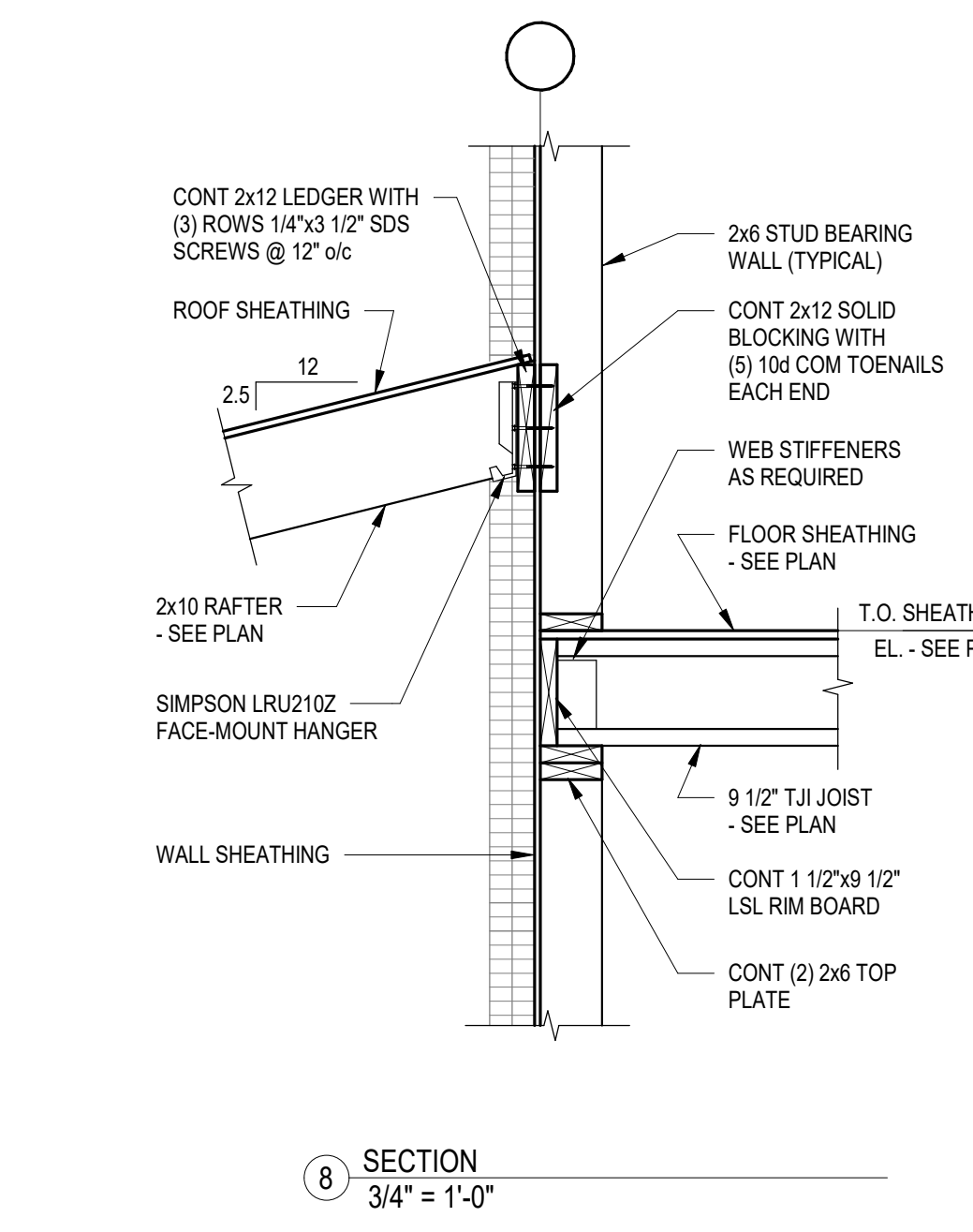
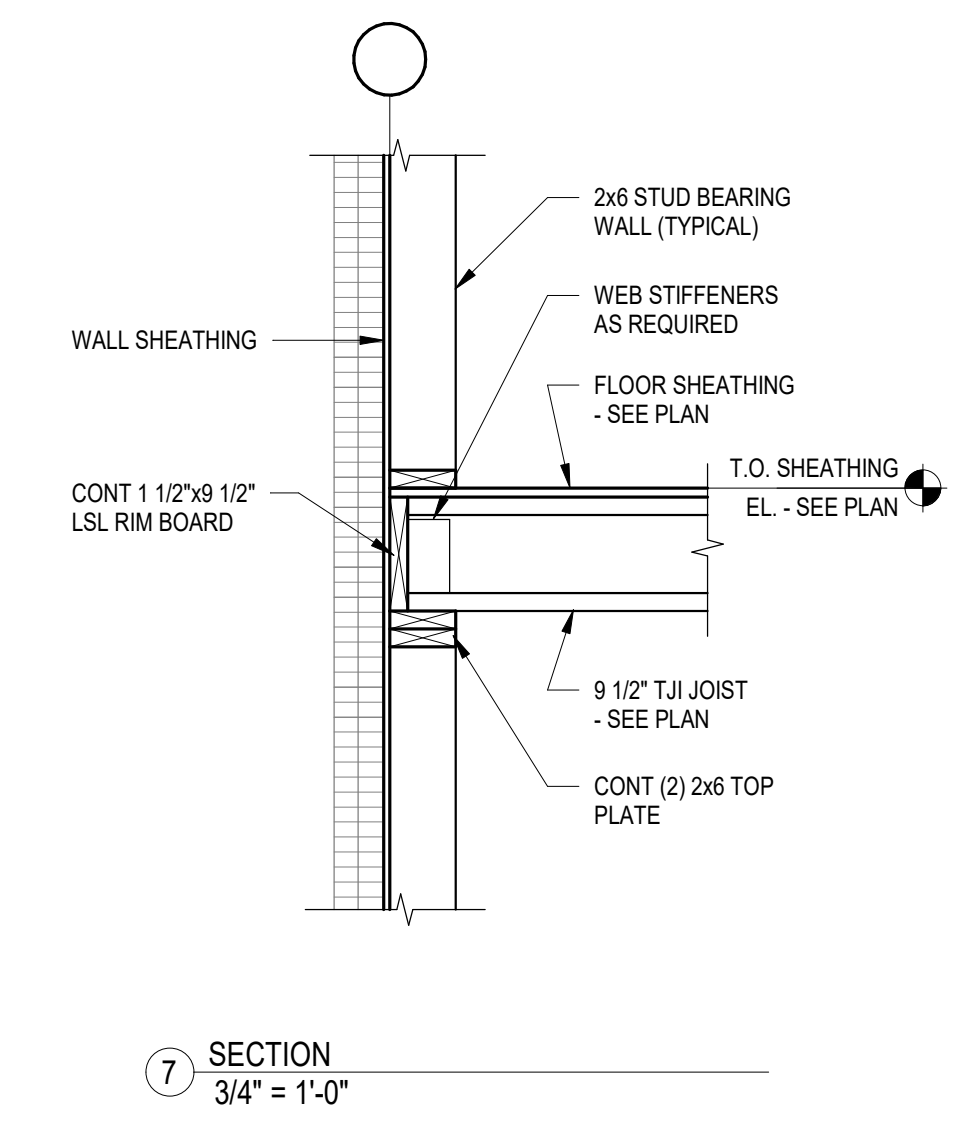
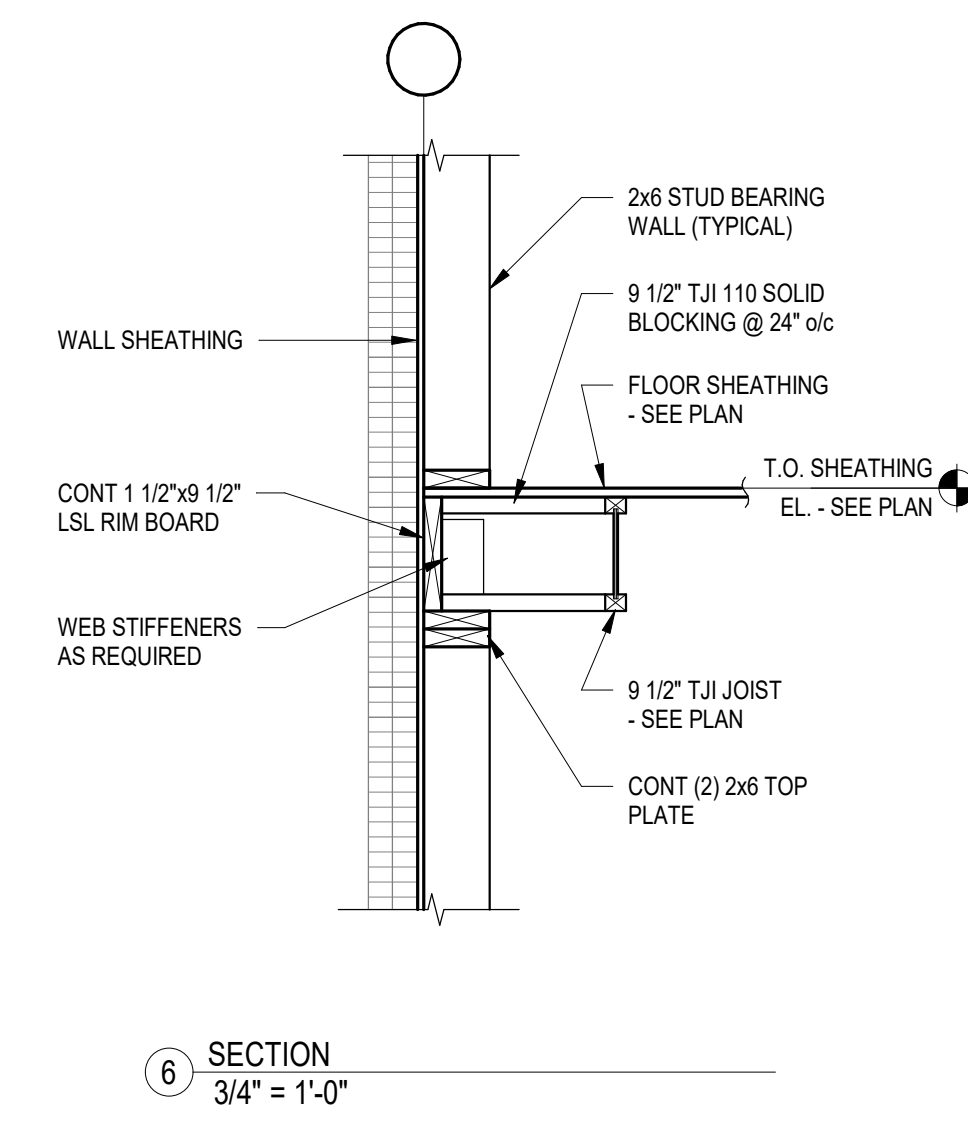
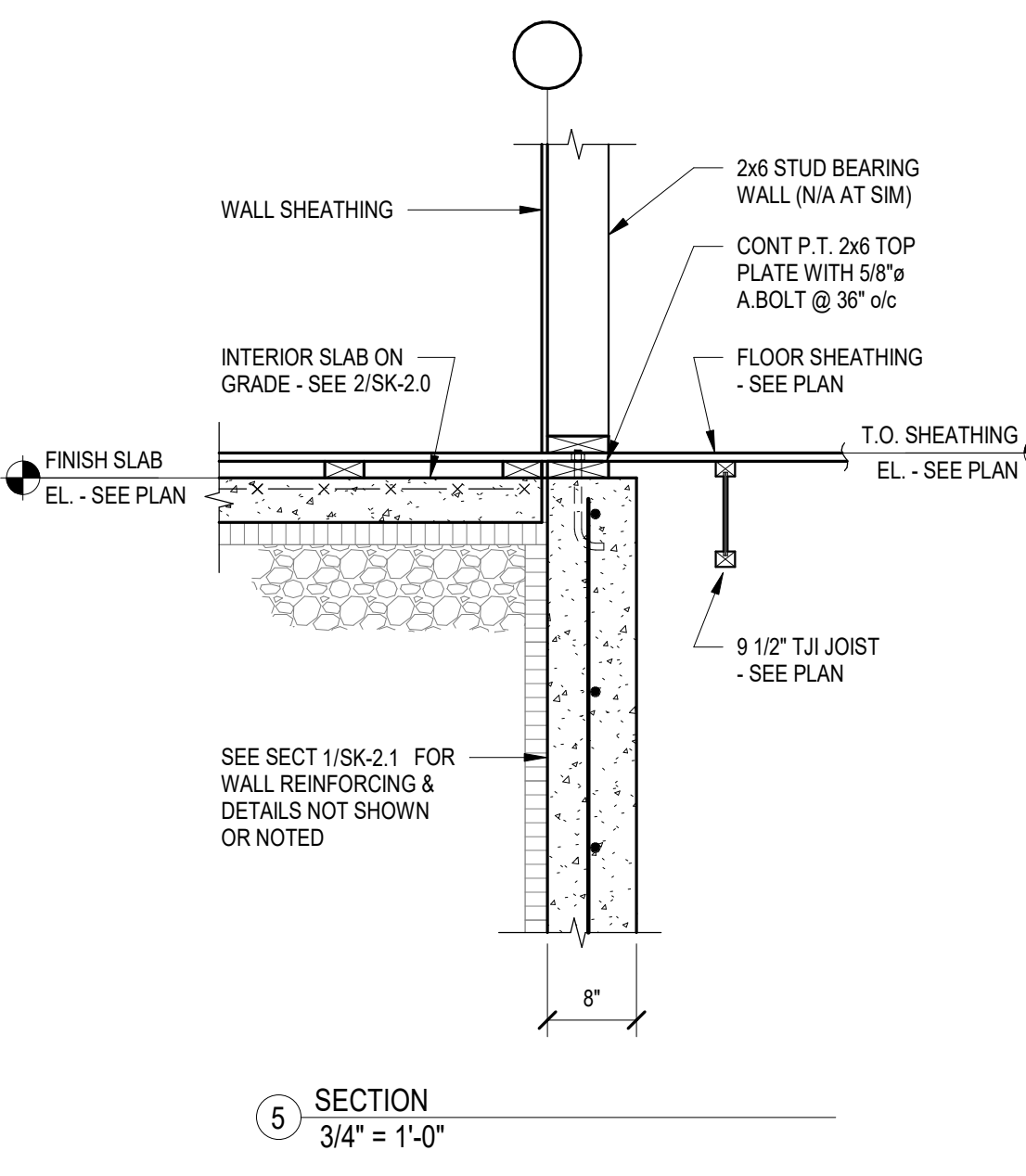
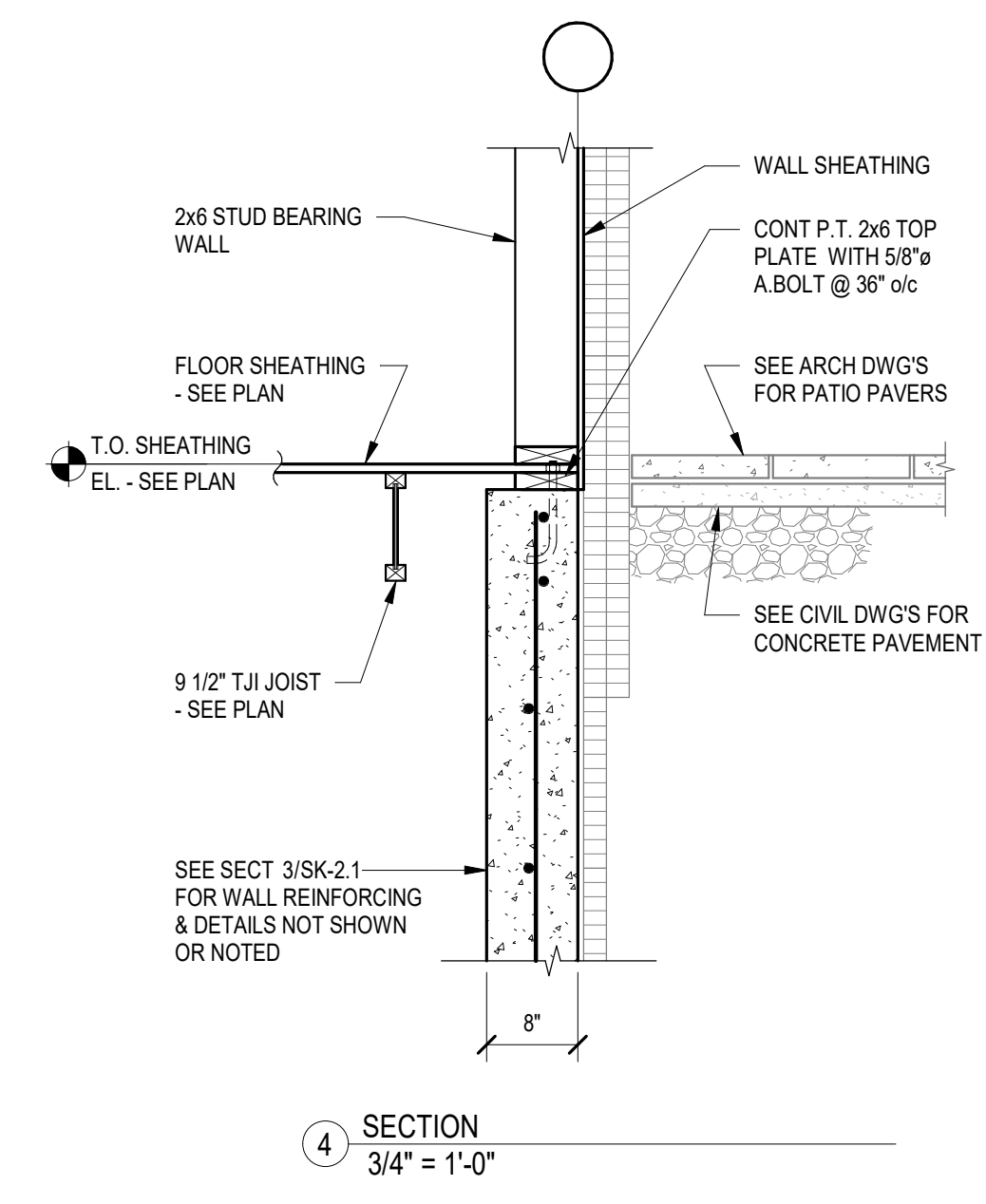
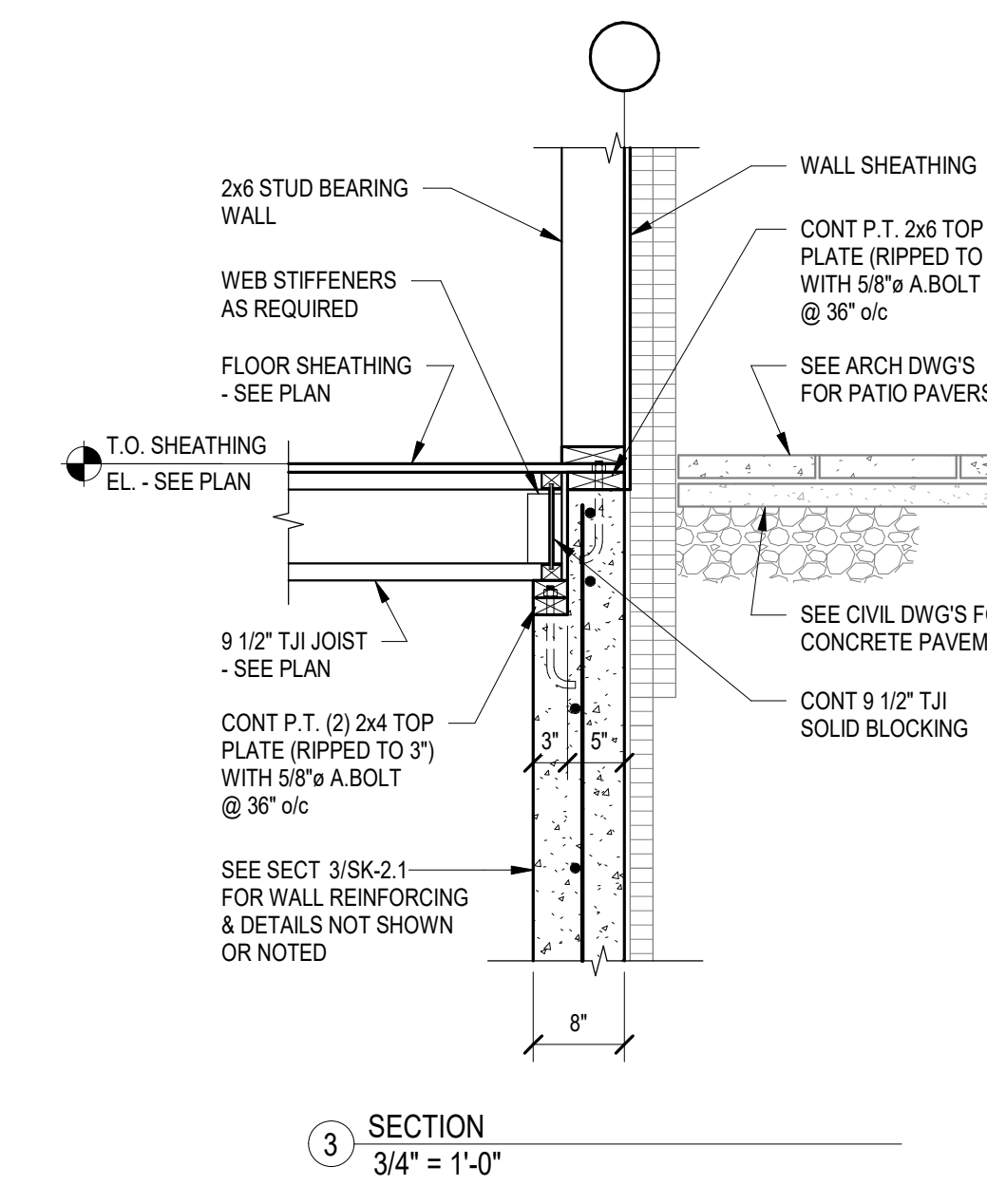
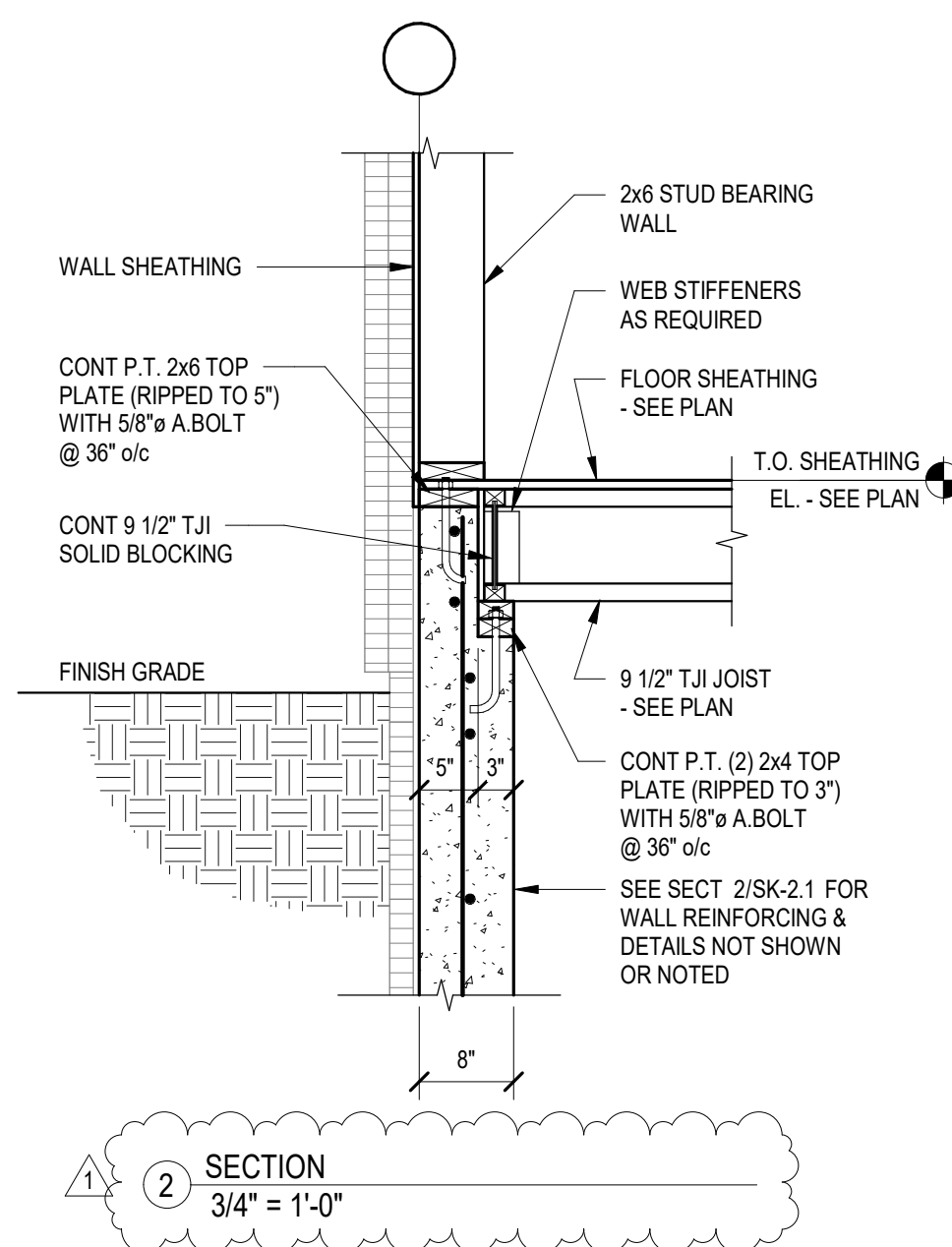
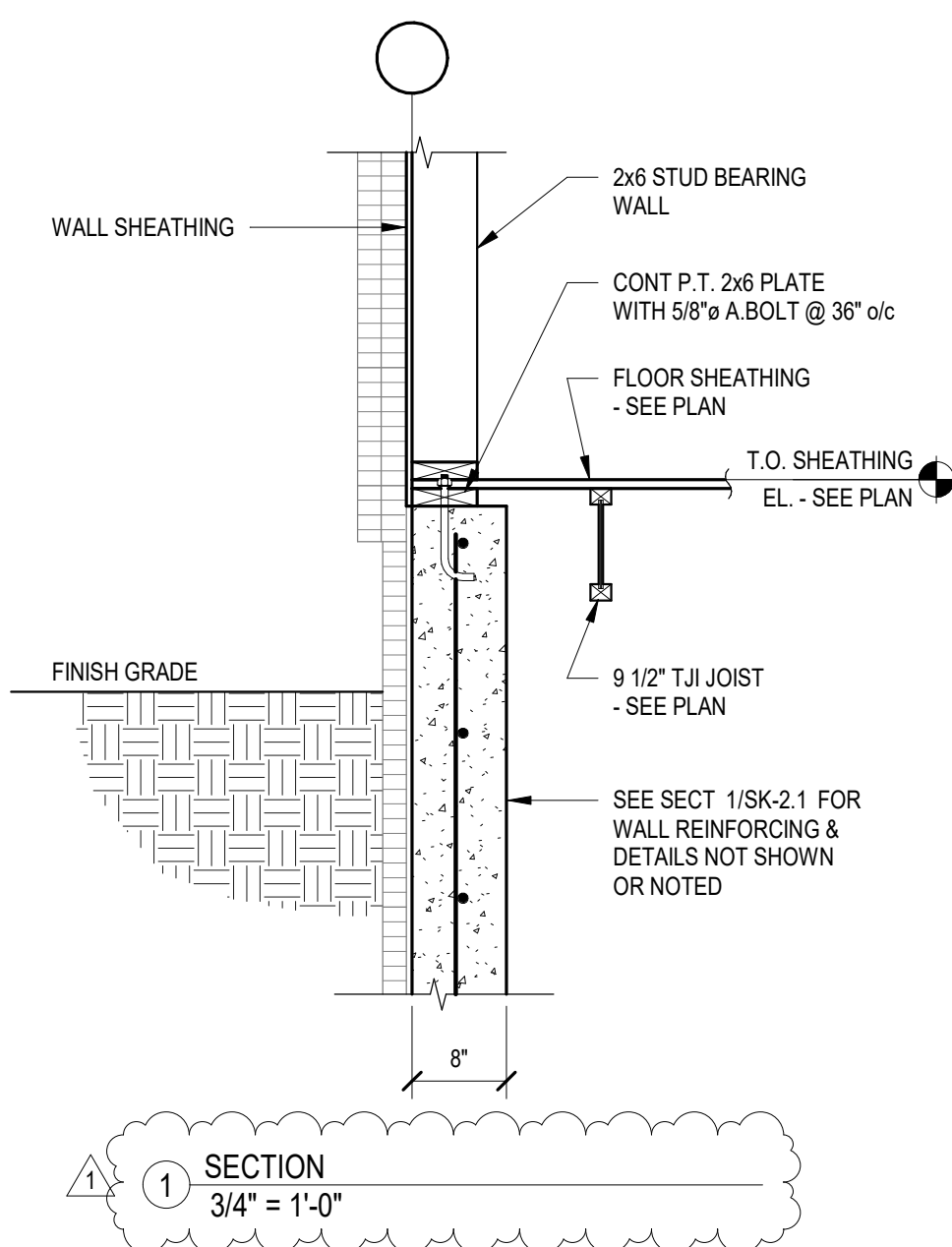


KUA KILTON/WELCH DORMITORIES

Main Street,
Meriden, NH 03770

FRAMING DETAILS

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#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

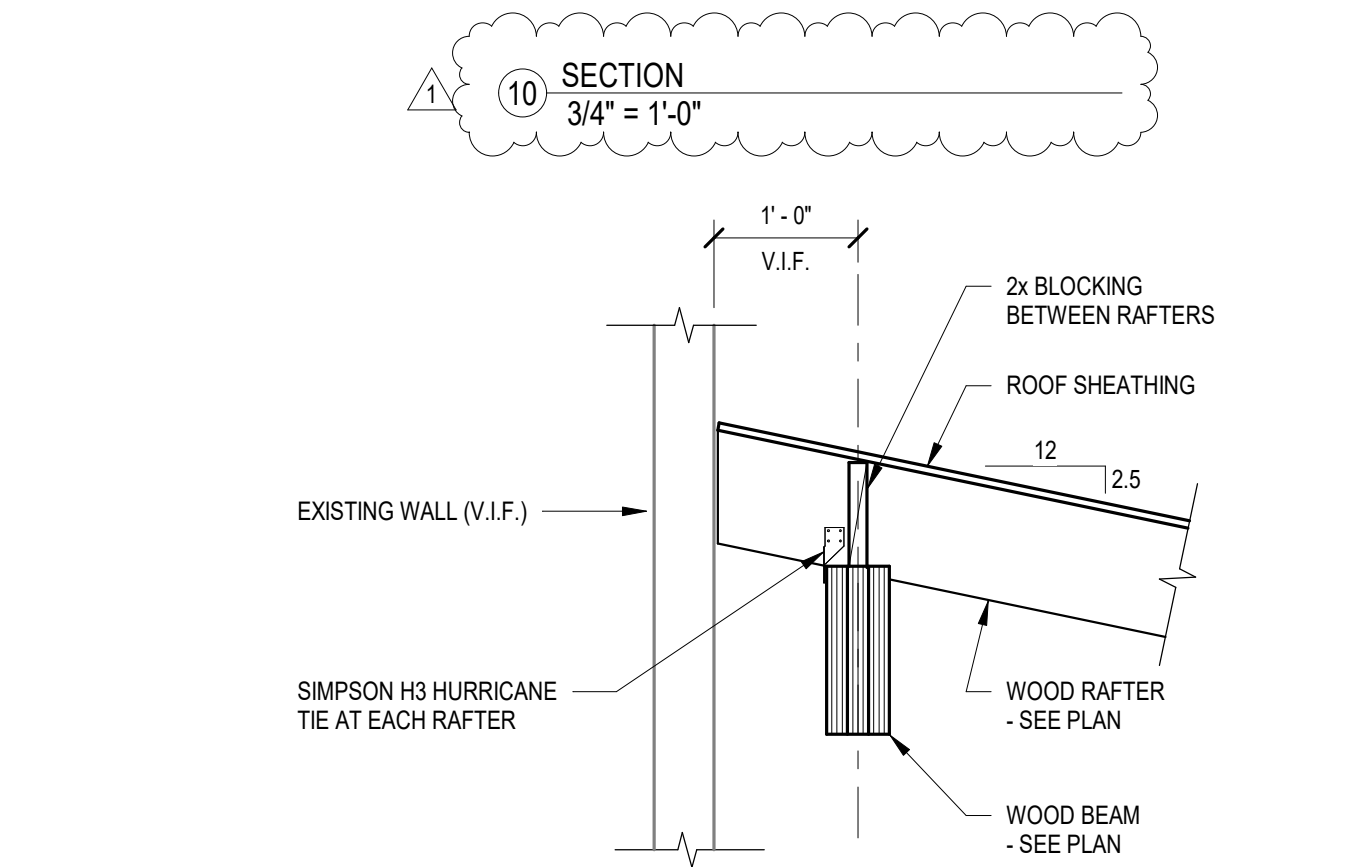
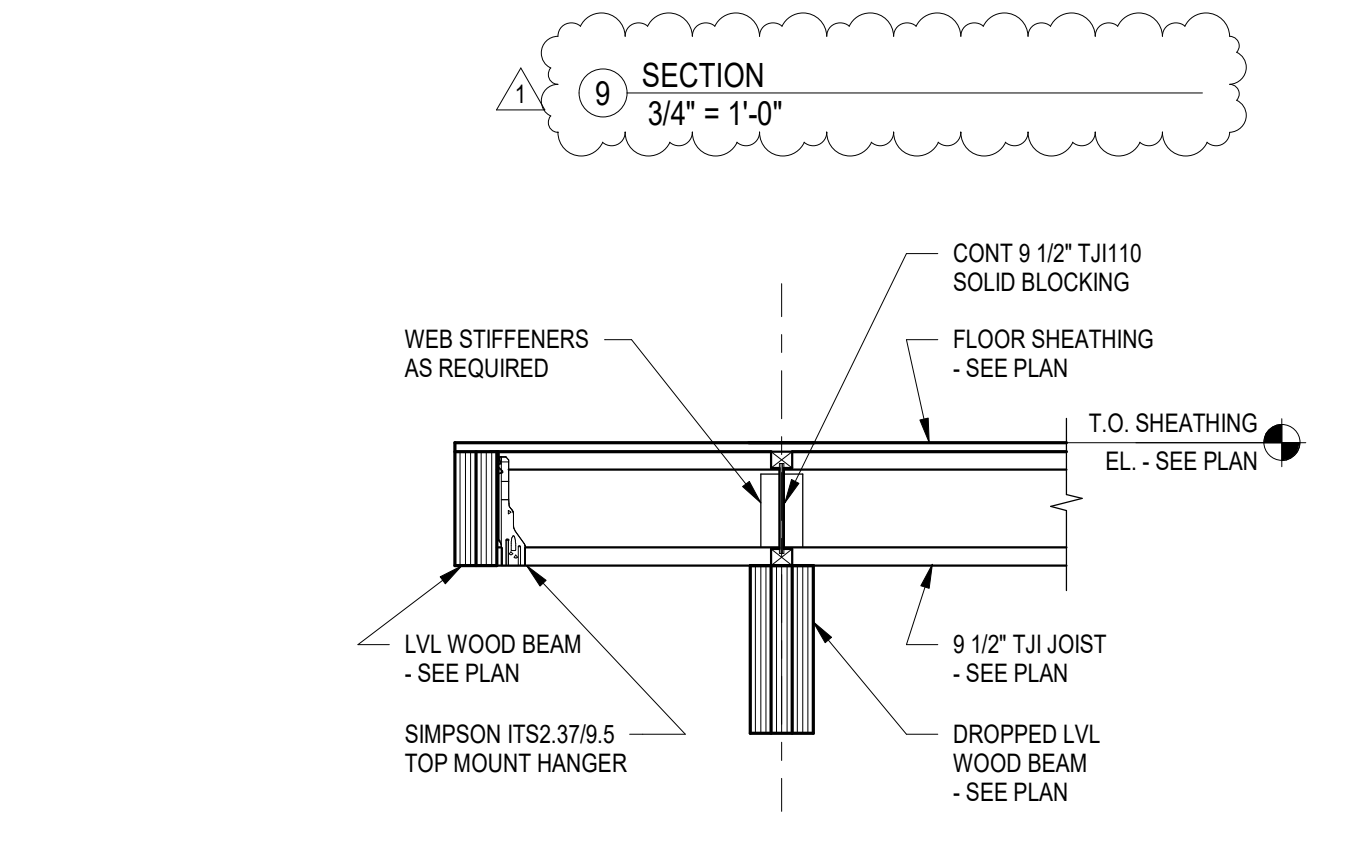
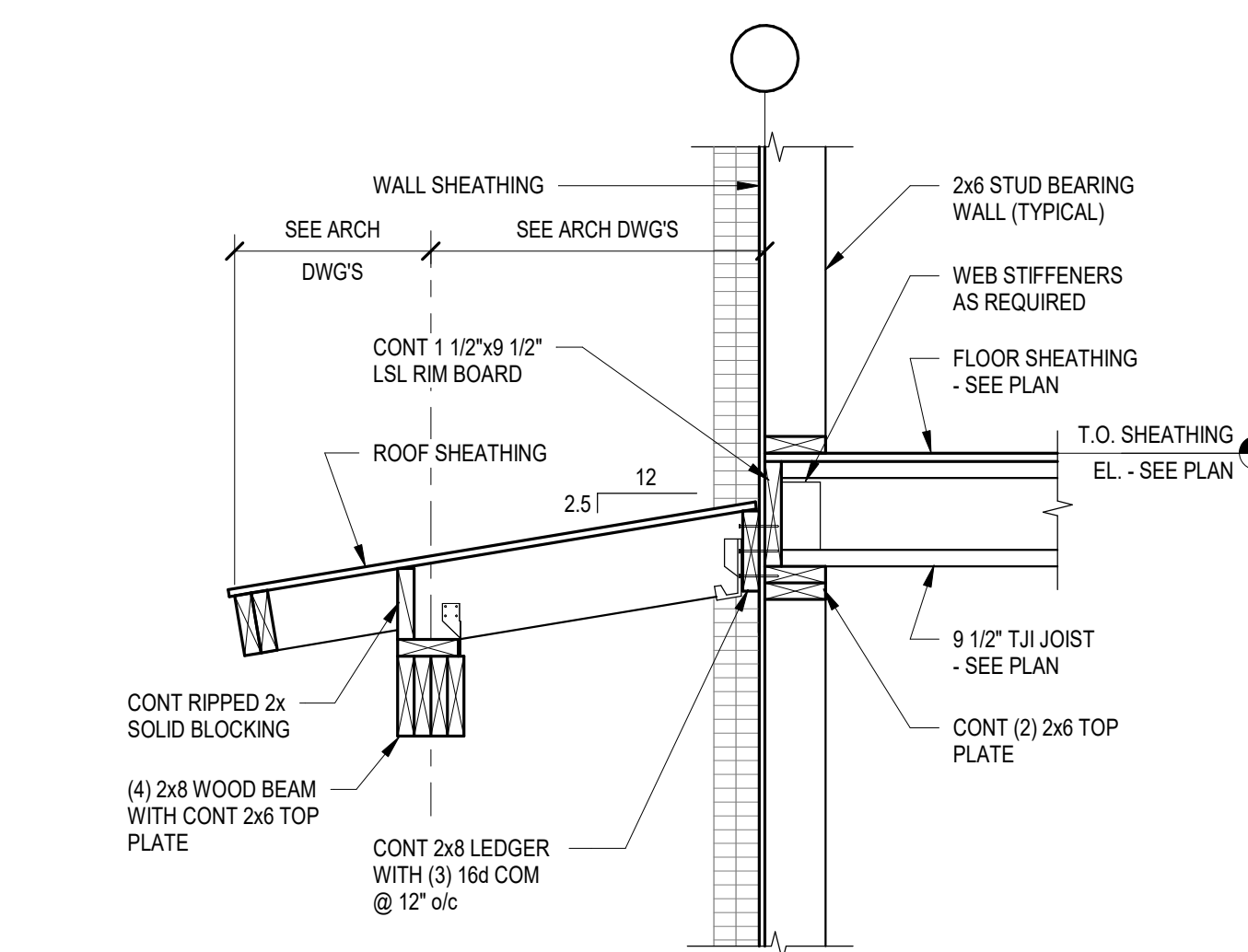
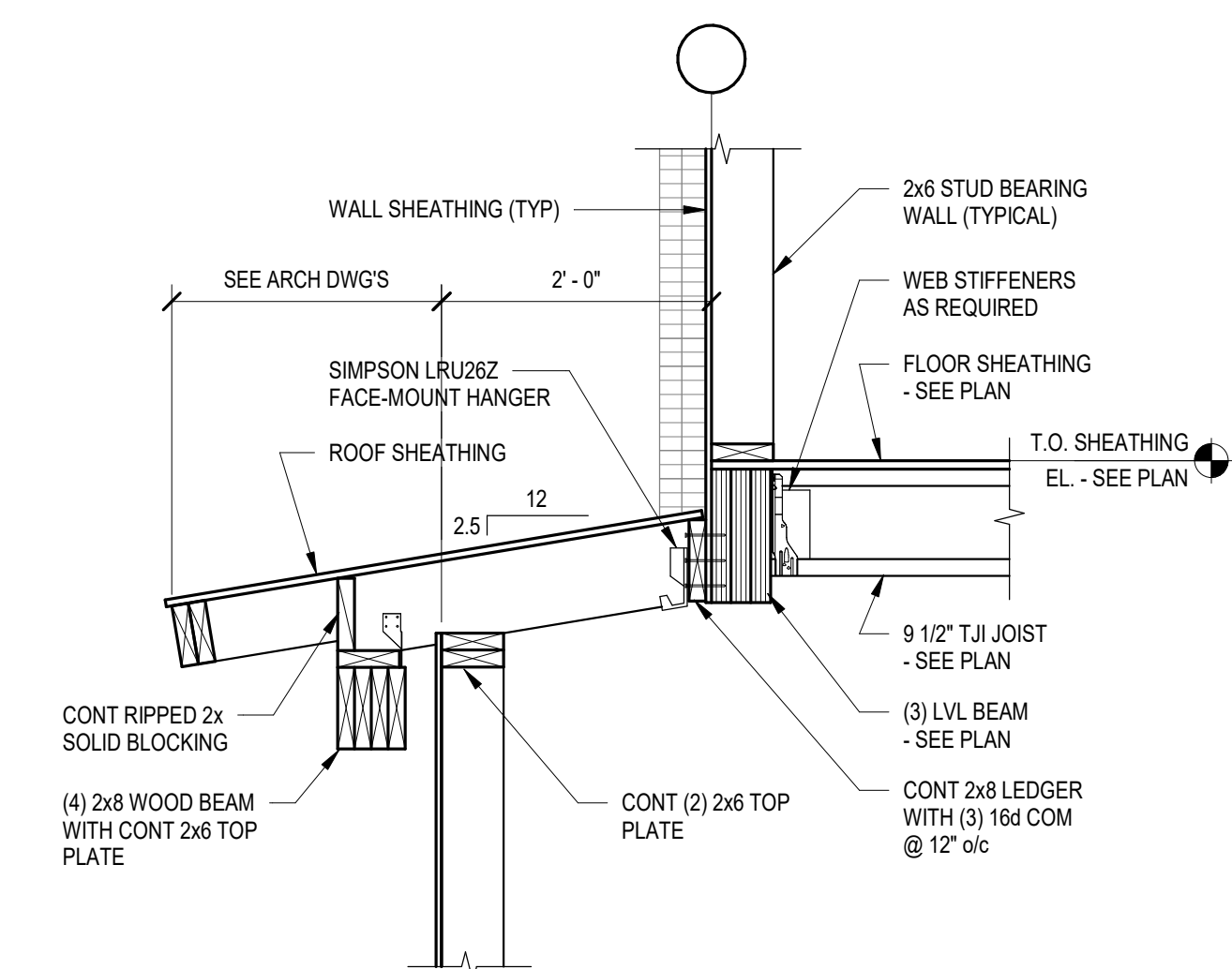
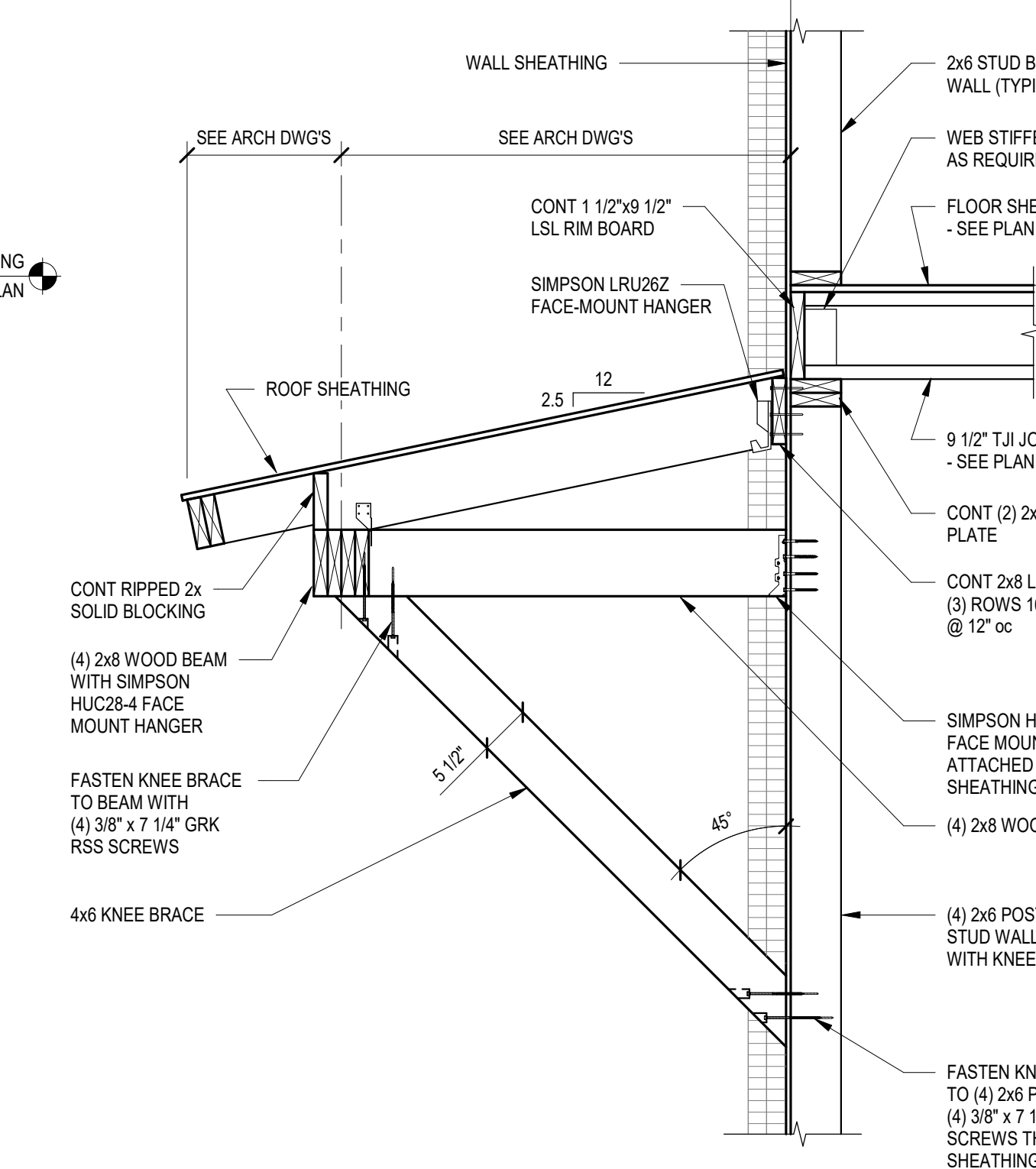
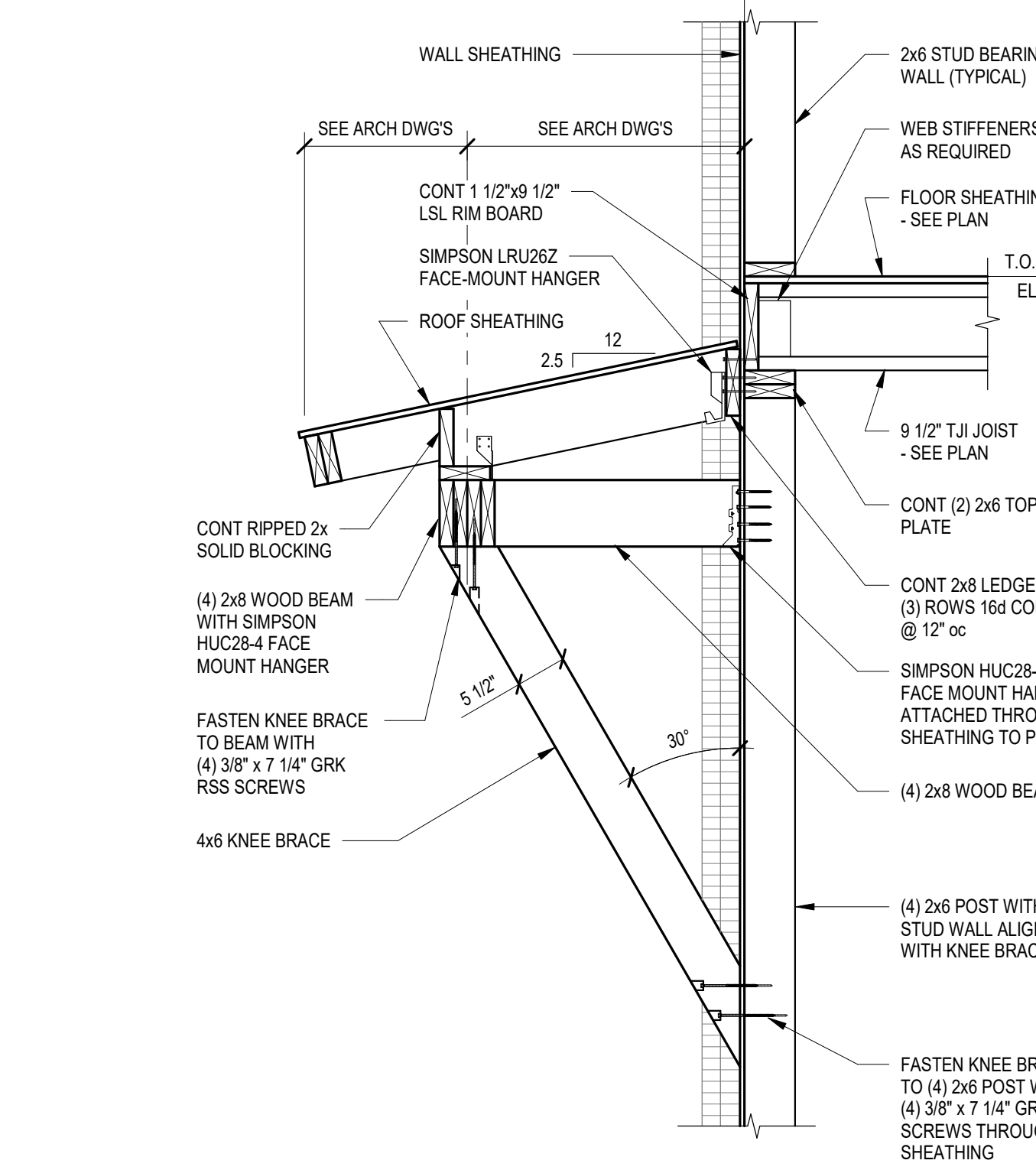
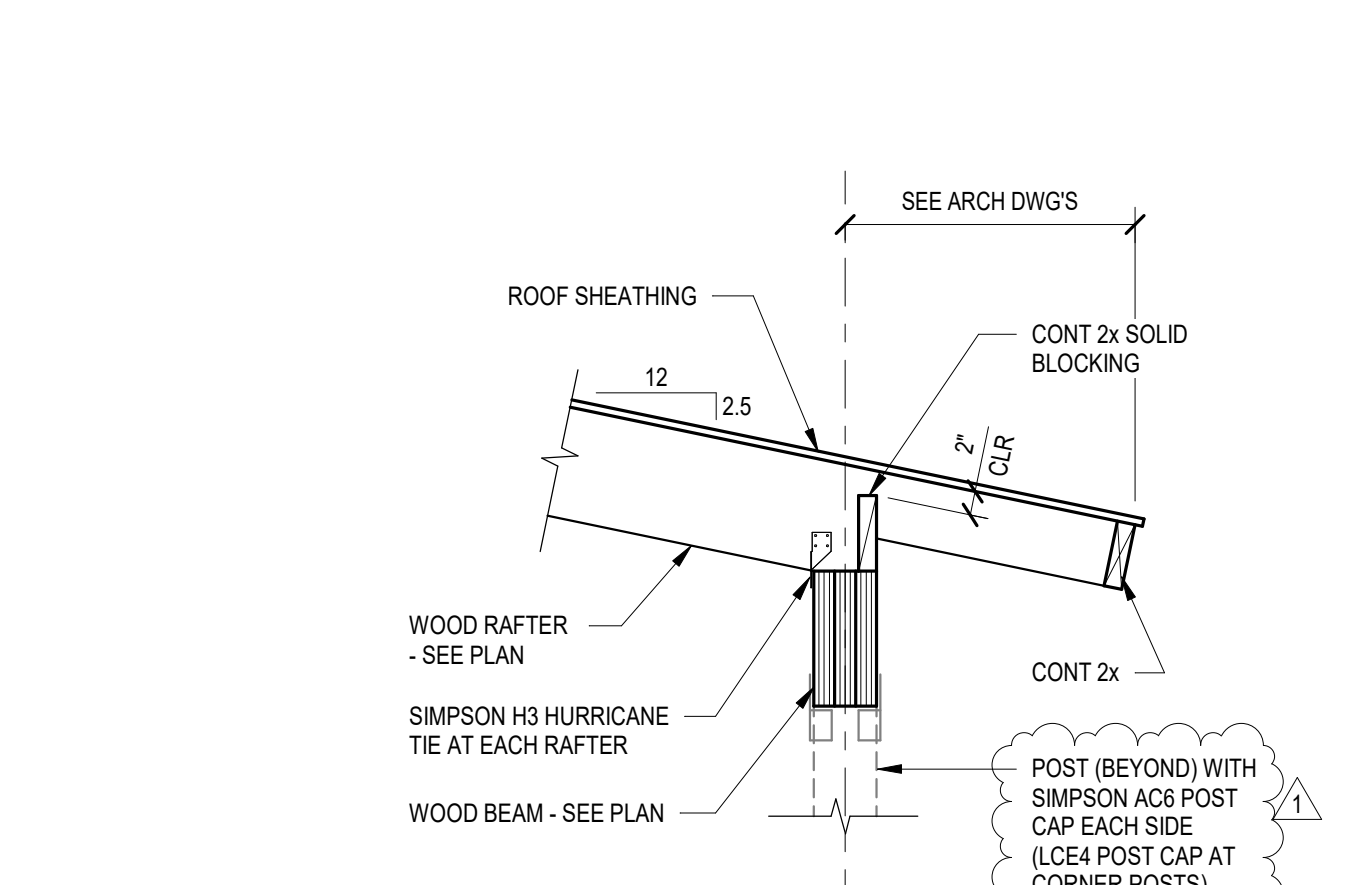
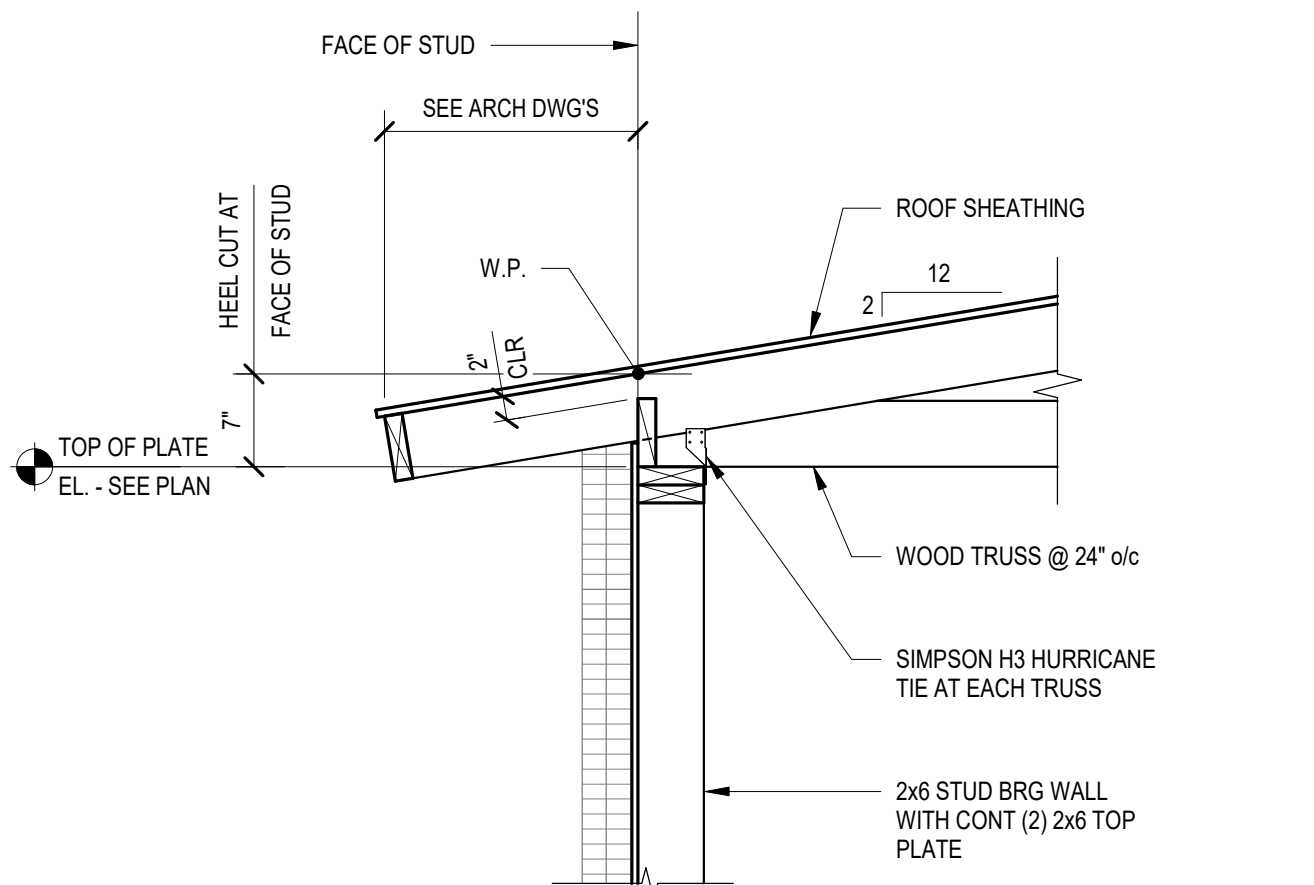
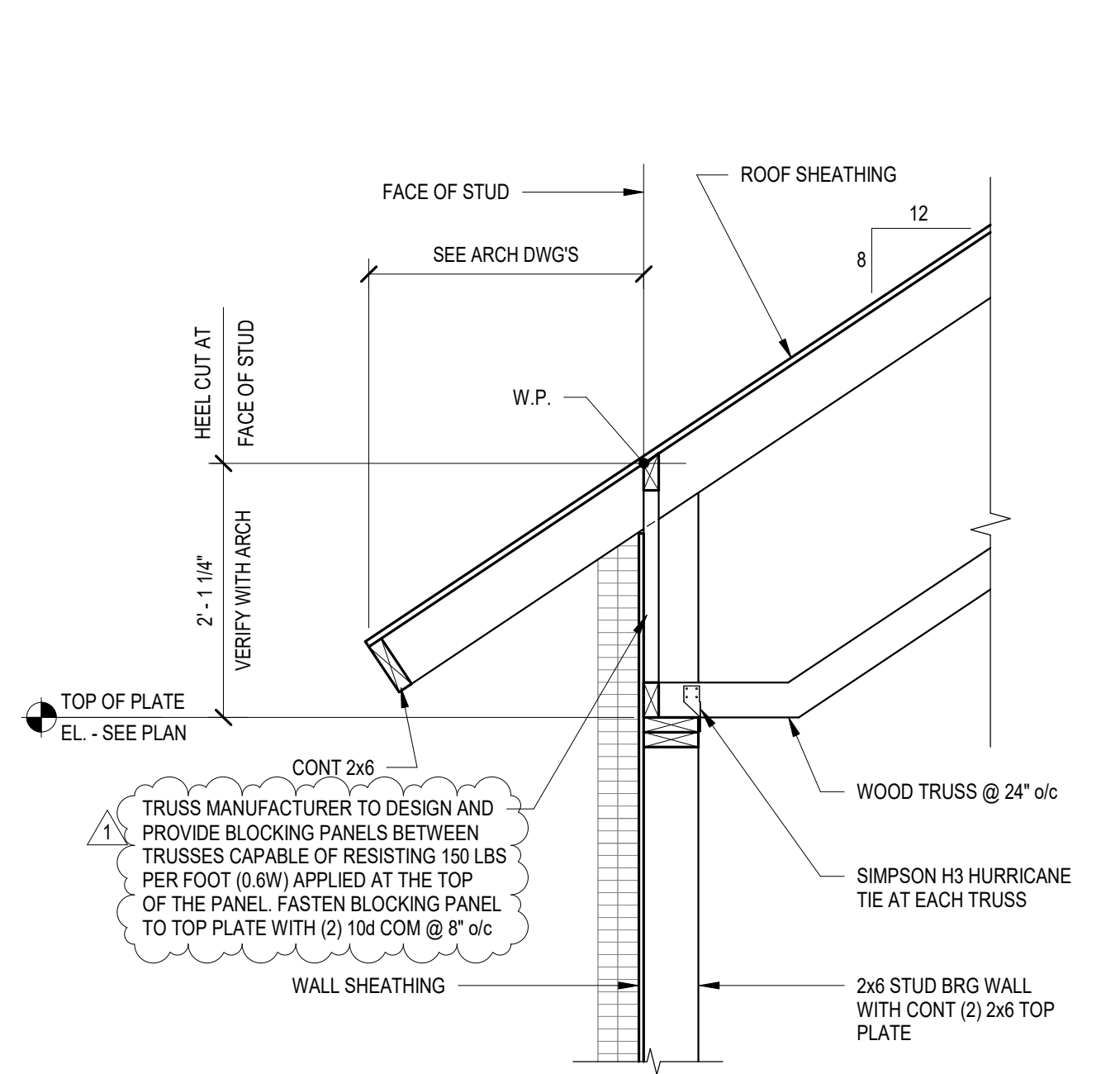
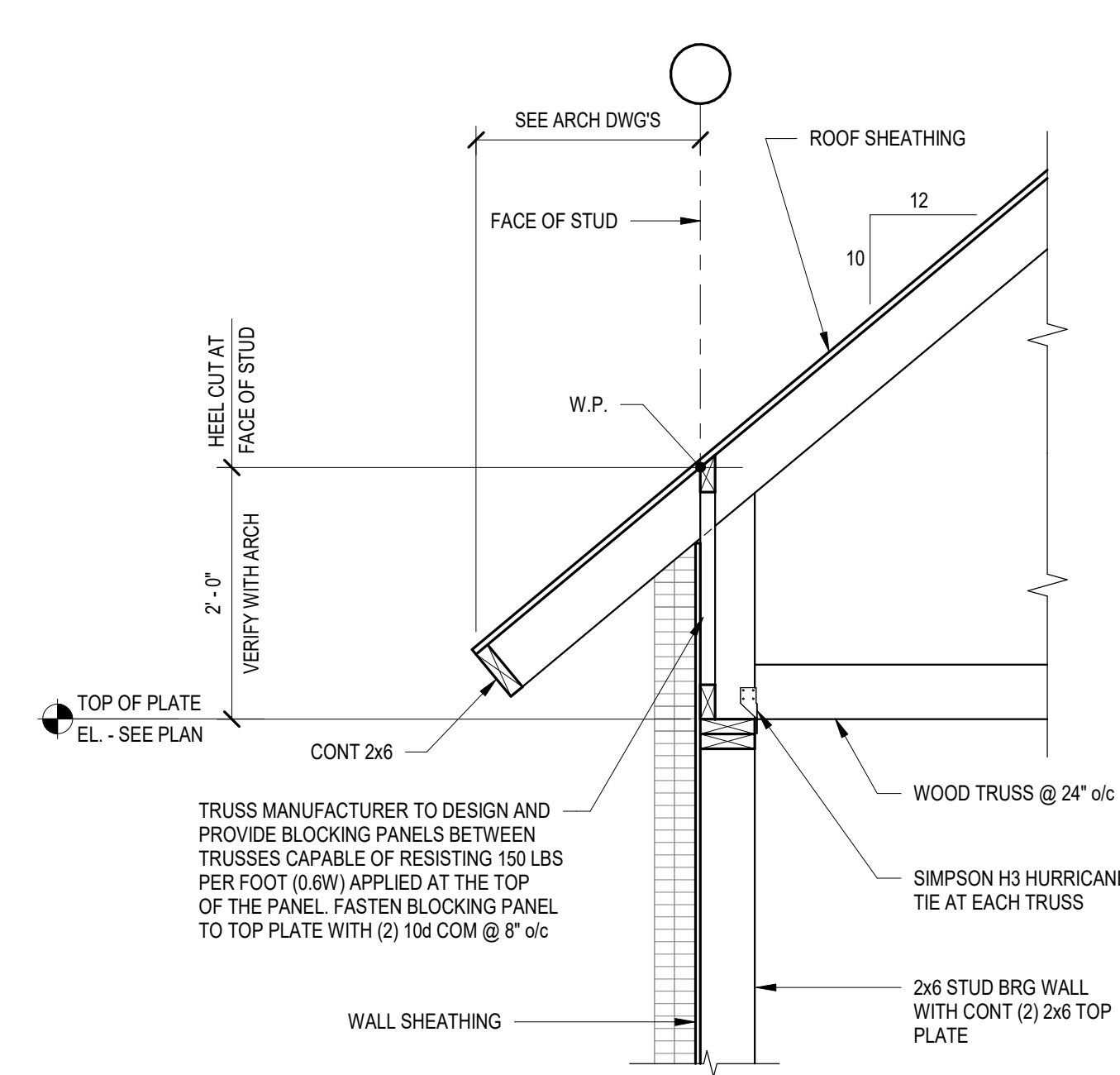
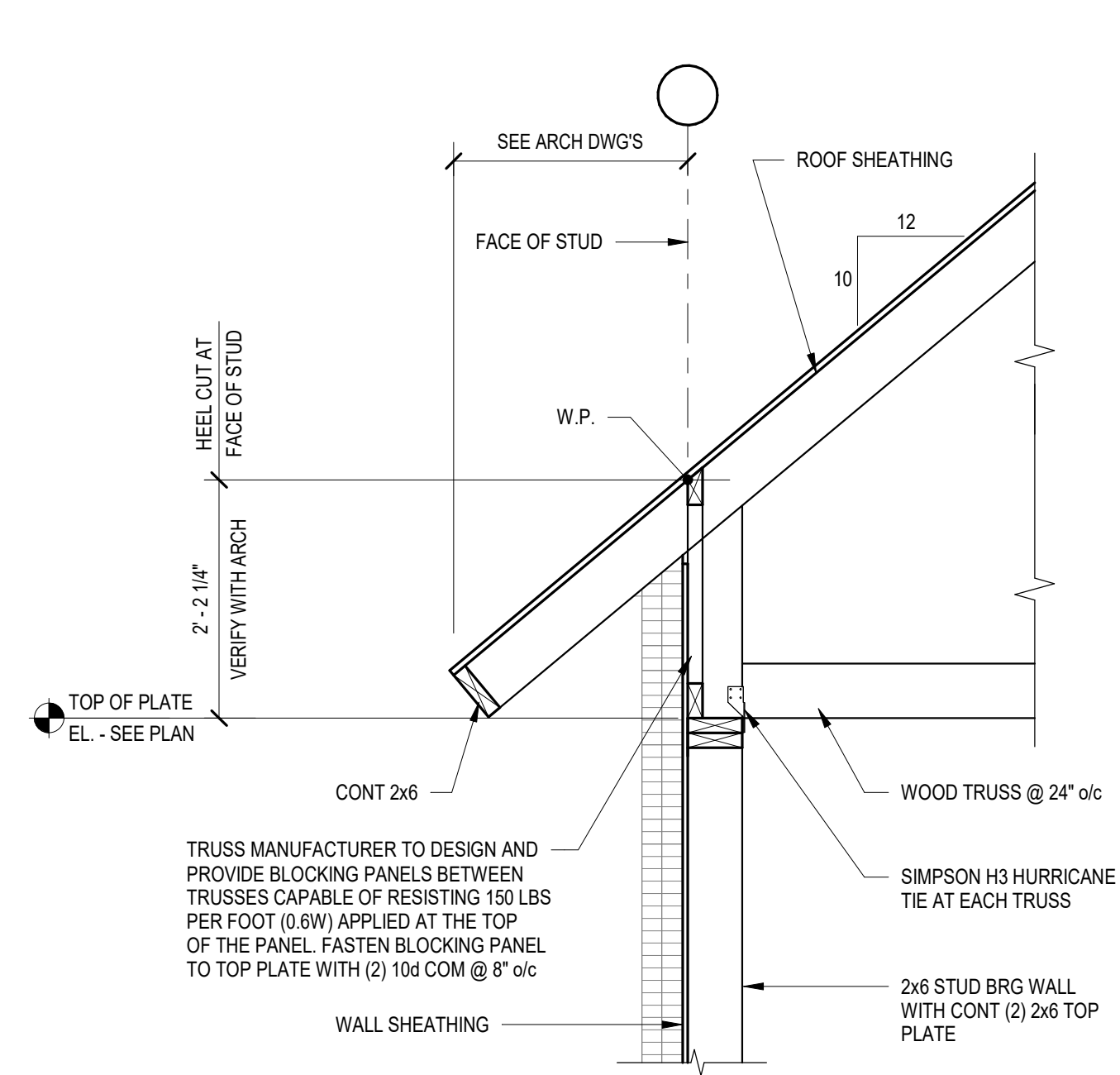
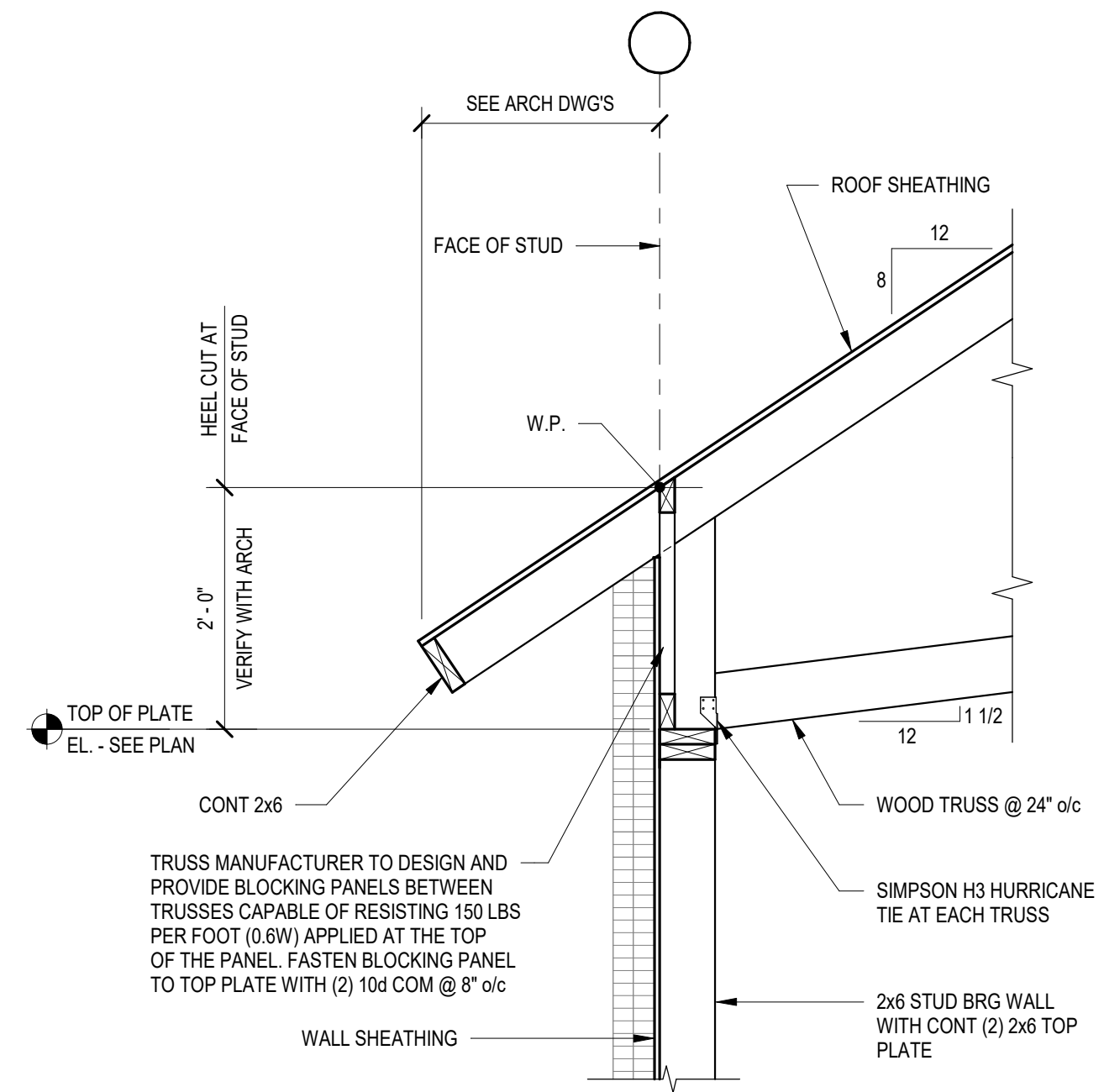


KUA
KILTON/WELCH
DORMITORIES

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Meriden, NH 03770

FRAMING DETAILS

SK-3.2



WOOD TRUSS DESIGN NOTES

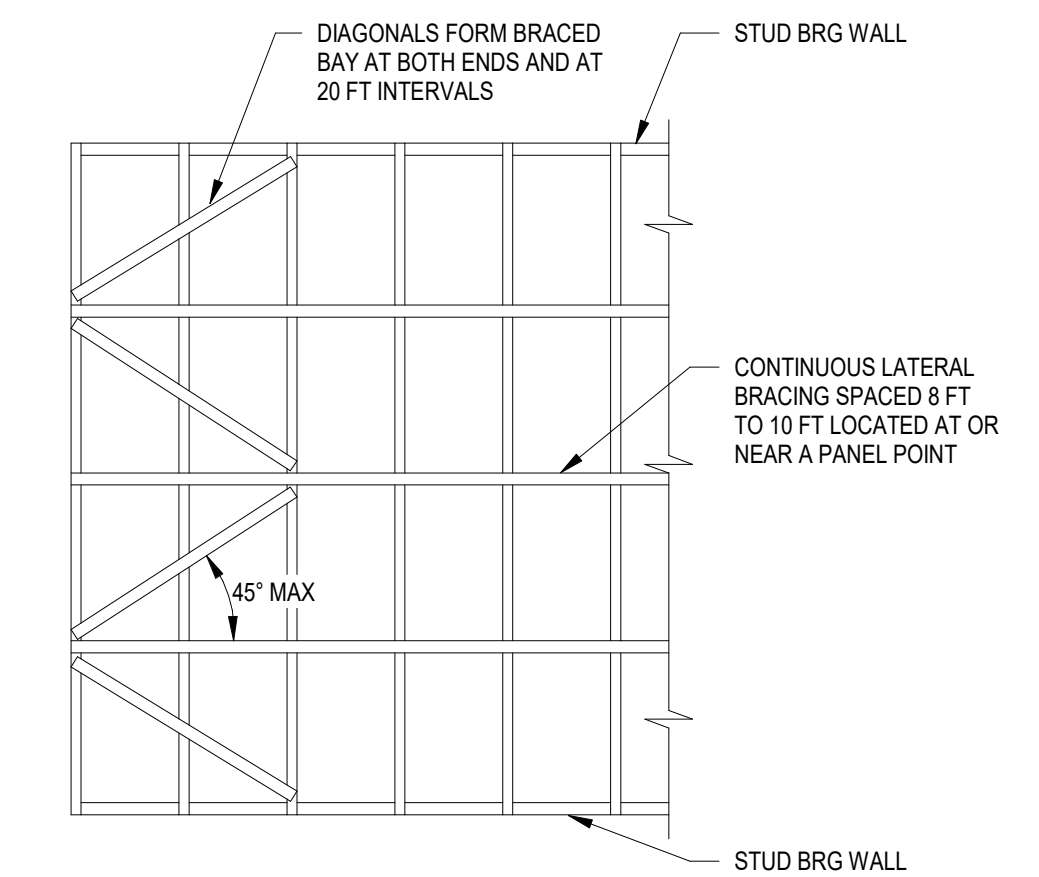
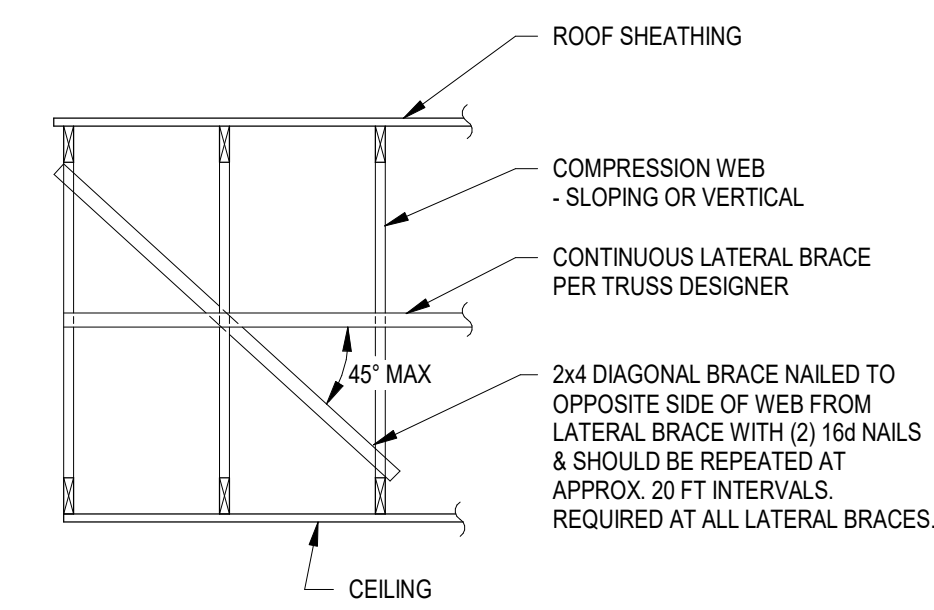
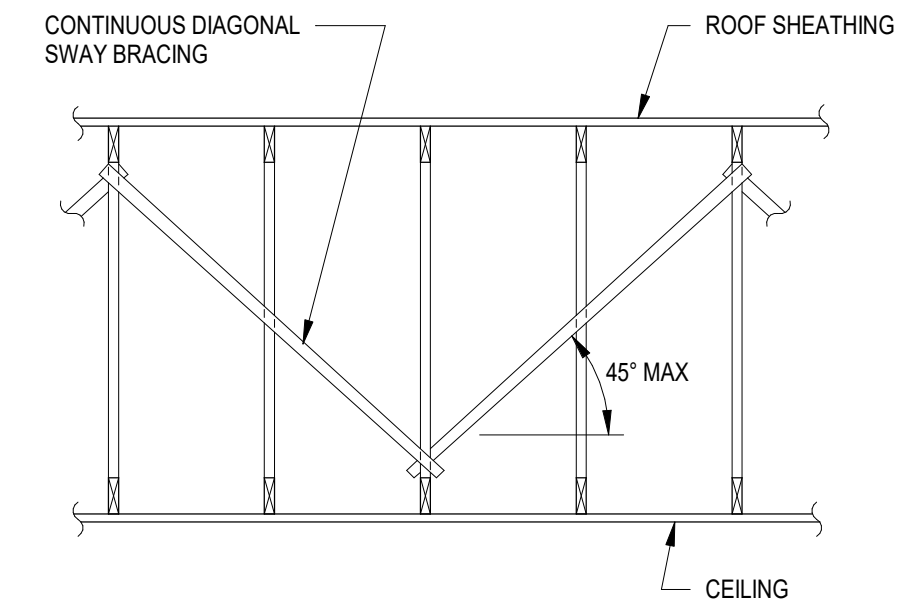
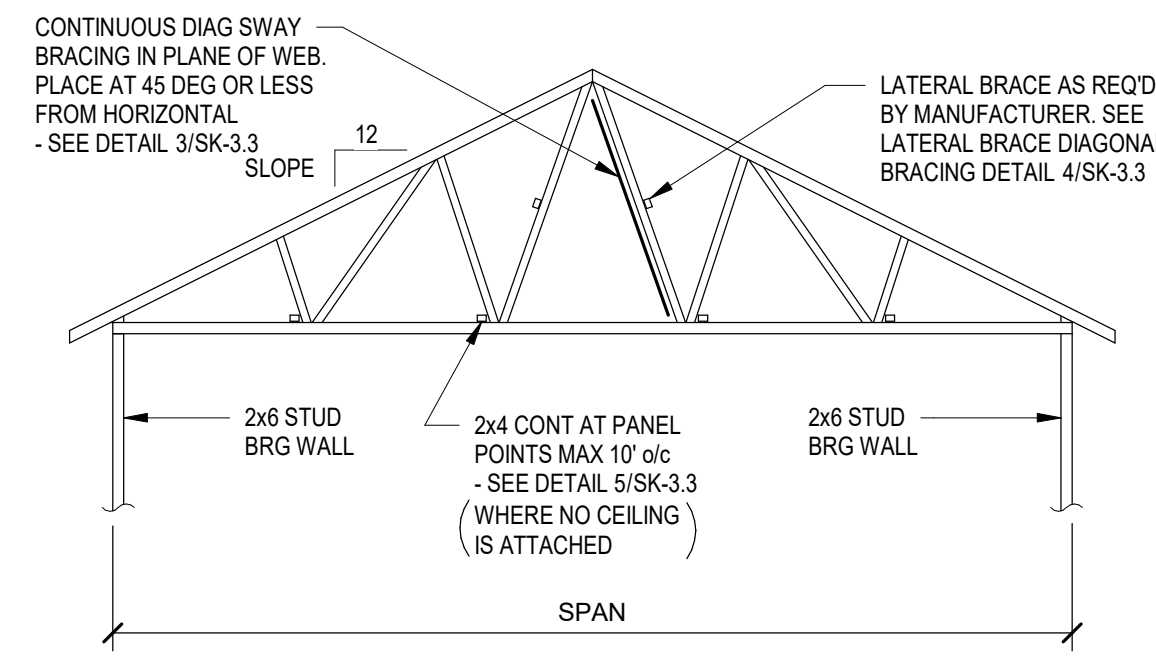
1. VERIFY ALL TRUSS PROFILE DIMENSIONS WITH ARCH DRAWINGS.
2. TRUSS CONFIGURATION MAY VARY TO SUIT MANUFACTURER.
3. SEE TYPICAL TRUSS BRACING DETAILS THIS SHEET. ADDITIONAL BRACING MAY BE REQUIRED BY THE TRUSS MANUFACTURER. MEET ALL MANUFACTURER BRACING REQUIREMENTS AND CURRENT TRUSS PLATE INSTITUTE (TPI) STANDARDS. CONTINUOUS LATERAL BRACING (PER TRUSS MANUFACTURER) SHALL BE 2x4 MINIMUM SIZE AND SHALL BE NAILED TO ALL CROSSING TRUSSES WITH 2-16d COMMON. BRACING SHALL BE OVERLAPPED ONE TRUSS SPACING MINIMUM AT SPLICES.
4. TRUSS DESIGNER TO DESIGN ALL TRUSS-TO-TRUSS CONNECTIONS.
5. ROOF TRUSSES SHALL BE BOTTOM CHORD BEARING TRUSSES, UNLESS NOTED OTHERWISE IN SECTIONS.
6. TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS IN ACCORDANCE WITH 2015 IBC:

ROOF DESIGN LOADS:

TOP CHORD	DEAD LOAD	= 15 PSF (INCLUDING 6 PSF FOR RACK-MOUNTED SOLAR)
	SNOW LOAD	= 53 PSF (8:12 SLOPE); 44 PSF (10:12 SLOPE)
	WIND LOAD	= MWFRS: 15 PSF (UPLIFT, 1.0W)
BOTTOM CHORD	DEAD LOAD	= 10 PSF
	LIVE LOAD	= 10 PSF WITH CLEAR HT LESS THAN 42 INCHES = 20 PSF WITH CLEAR HT GREATER THAN 42 INCHES

ROOF TRUSSES SHALL BE DESIGNED FOR AN UNBALANCED SNOW LOAD IN ADDITION TO THE LOADS NOTED ABOVE.

IN ADDITION TRUSS BOTTOM CHORDS ONLY SHALL BE ADEQUATE TO CARRY A 200 LBS CONCENTRATED LOAD PLACED ANYWHERE. LOAD DURATION FACTOR MAY BE INCREASED TO 1.50 WHEN THIS LOAD IS APPLIED.



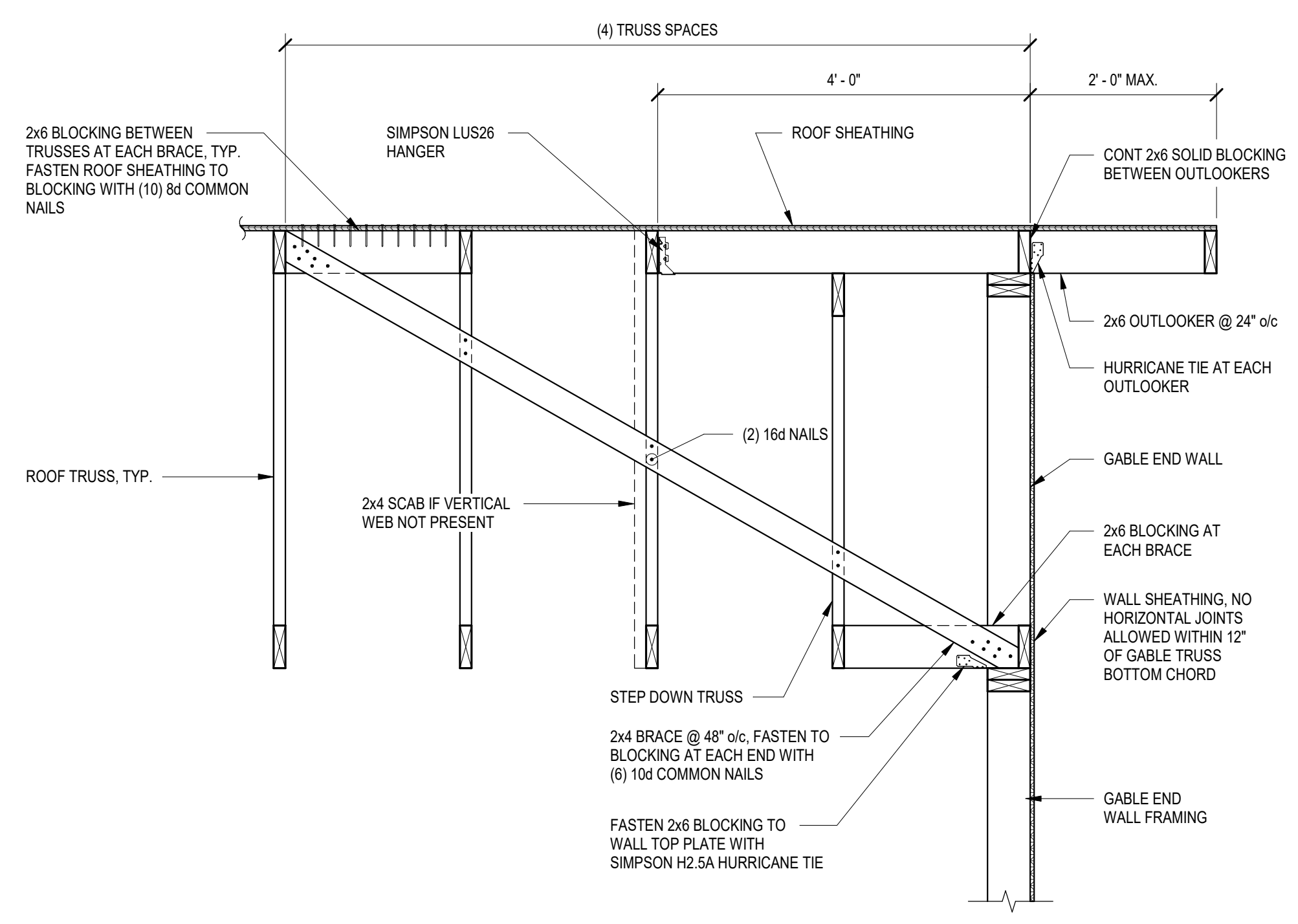
1 WOOD TRUSS DESIGN NOTES
1/8" = 1'-0"

2 TYPICAL WOOD ROOF TRUSS BRACING
1/8" = 1'-0"

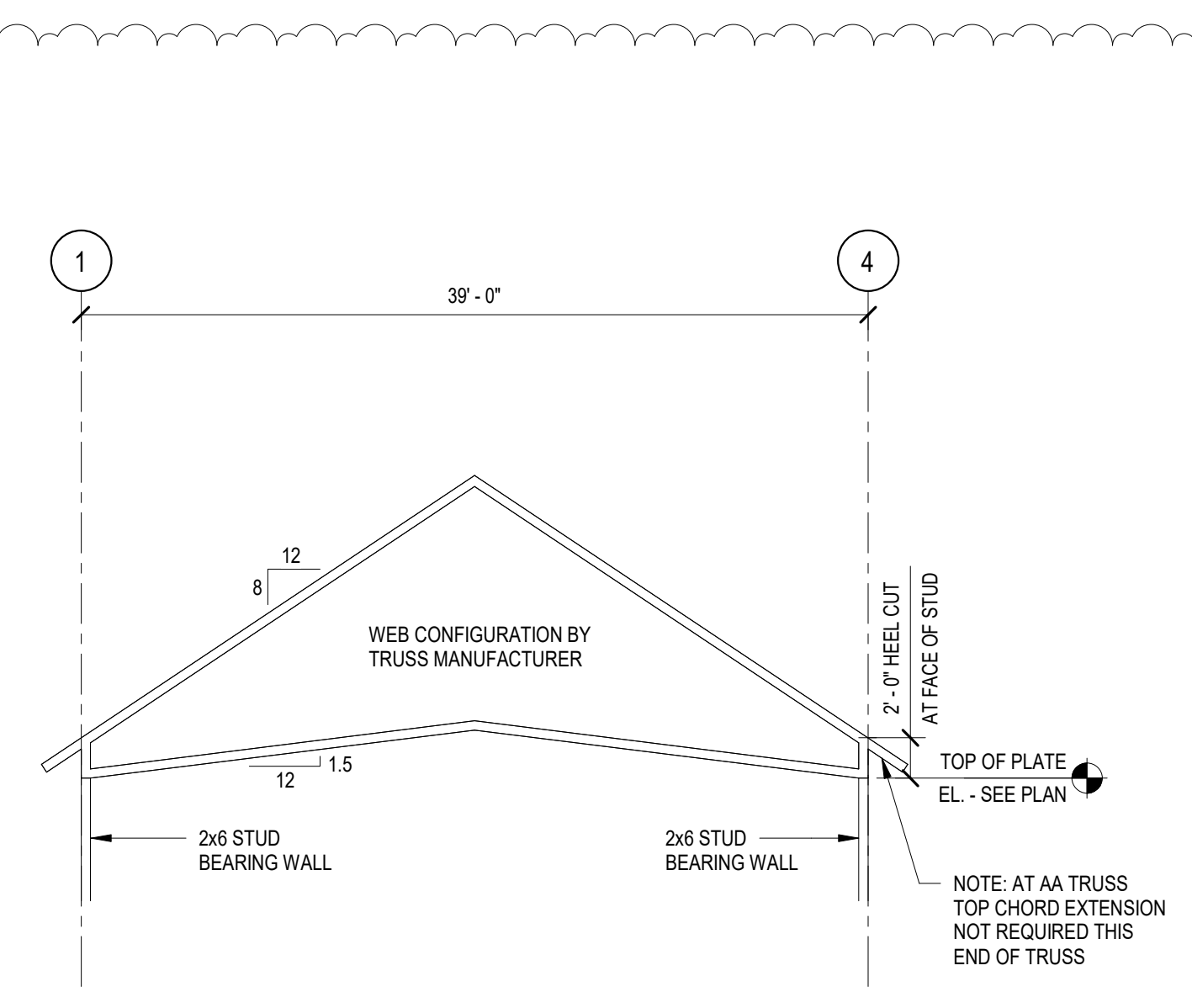
3 CONTINUOUS DIAGONAL SWAY BRACING DETAIL
1/8" = 1'-0"

4 LATERAL BRACE DIAGONAL BRACING DETAIL
1/8" = 1'-0"

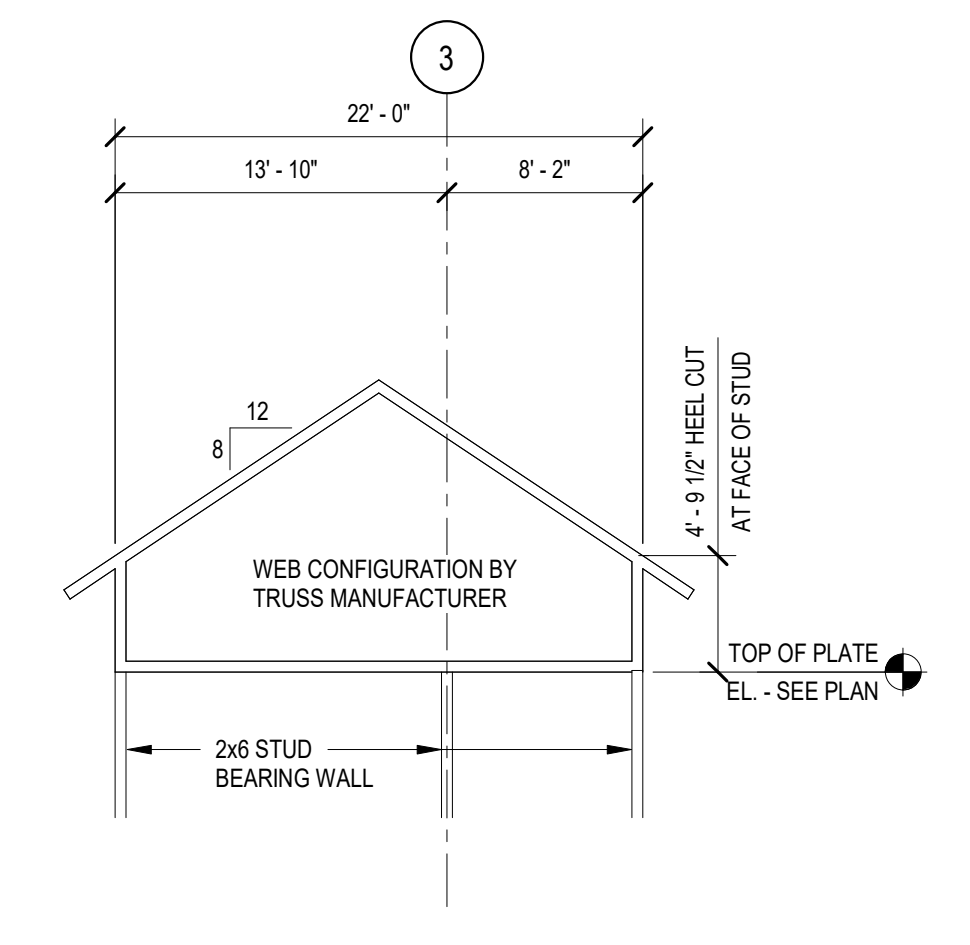
5 WOOD TRUSS BOTTOM CHORD BRACING DETAIL
1/8" = 1'-0"



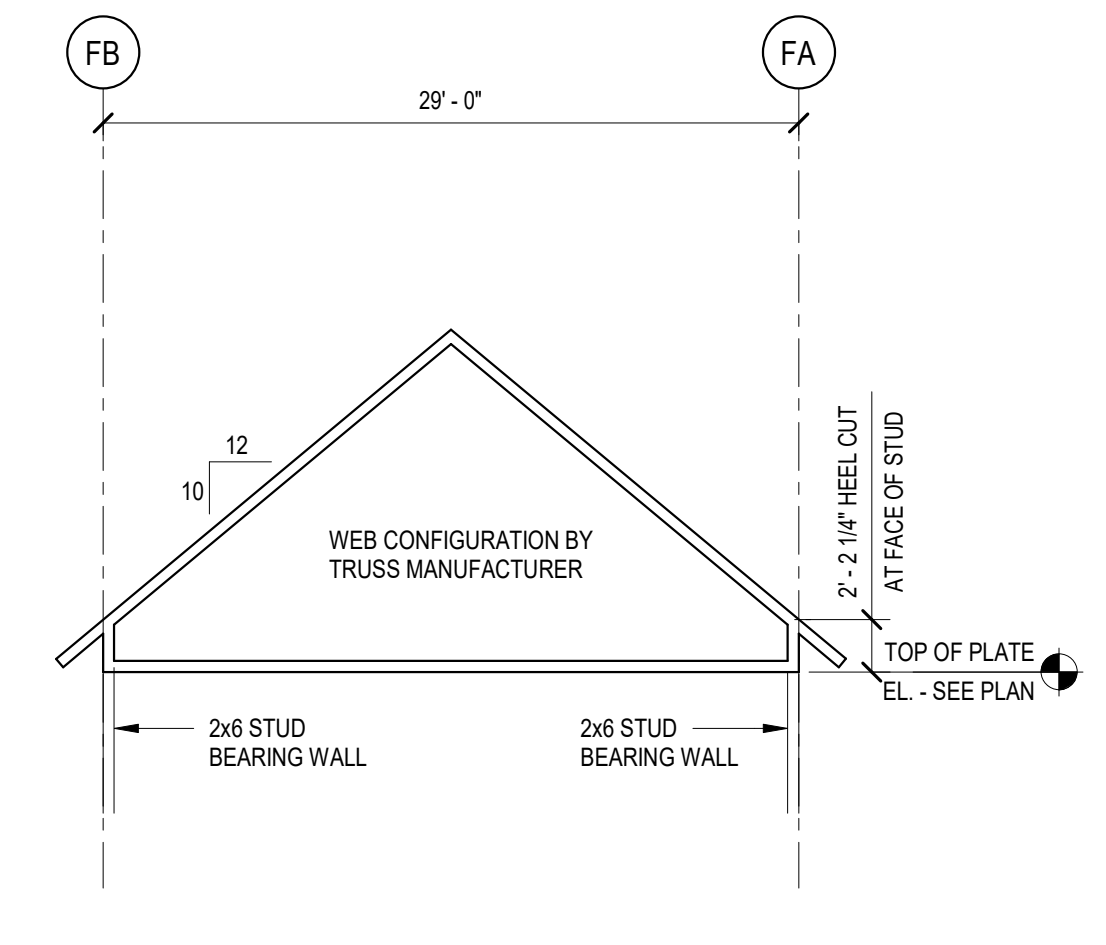
6 TYPICAL GABLE WALL BRACING AT ROOF TRUSS
3/4" = 1'-0"



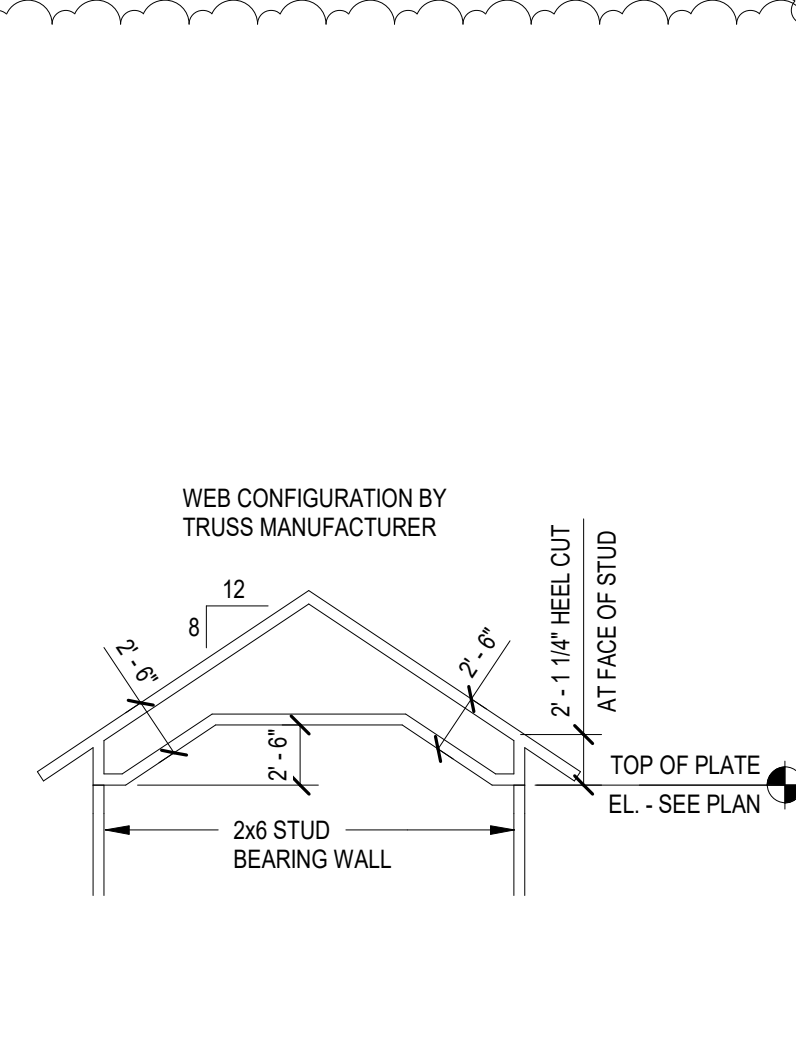
7 TYPE A & AA TRUSS
1/8" = 1'-0"



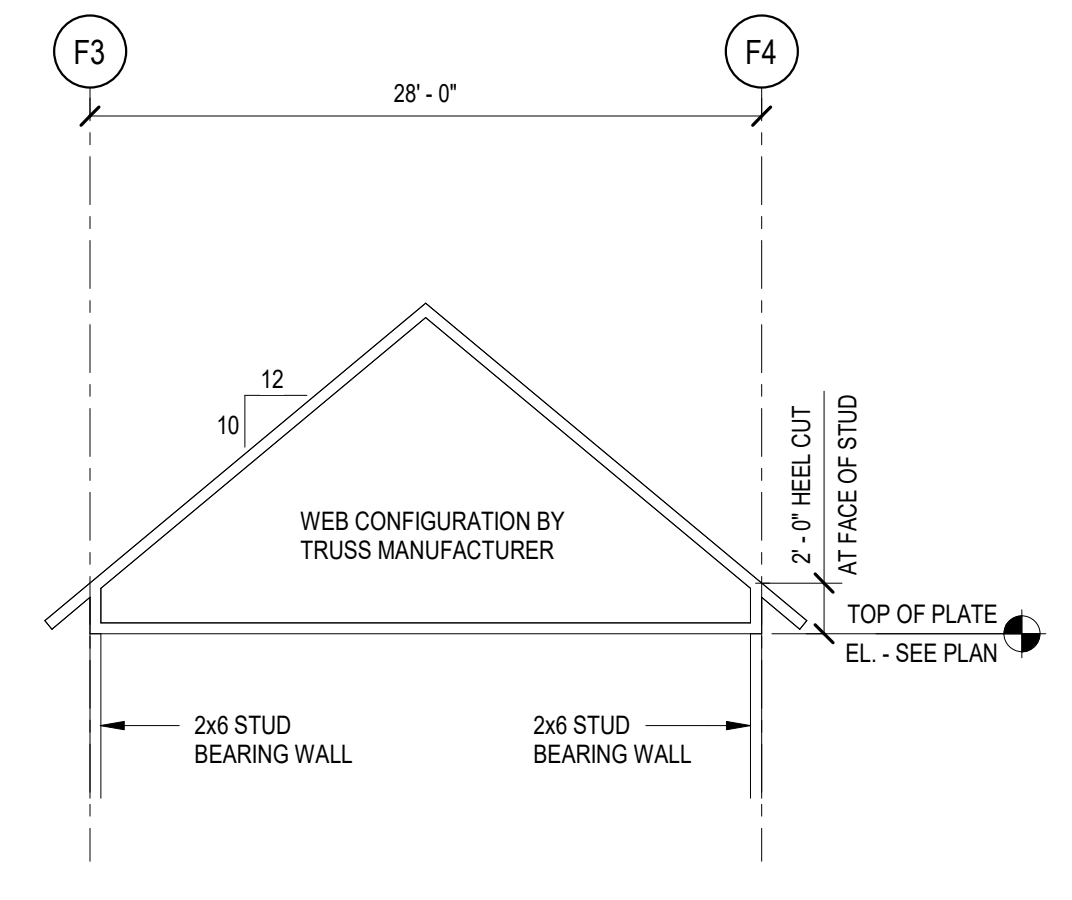
8 TYPE B TRUSS
1/8" = 1'-0"



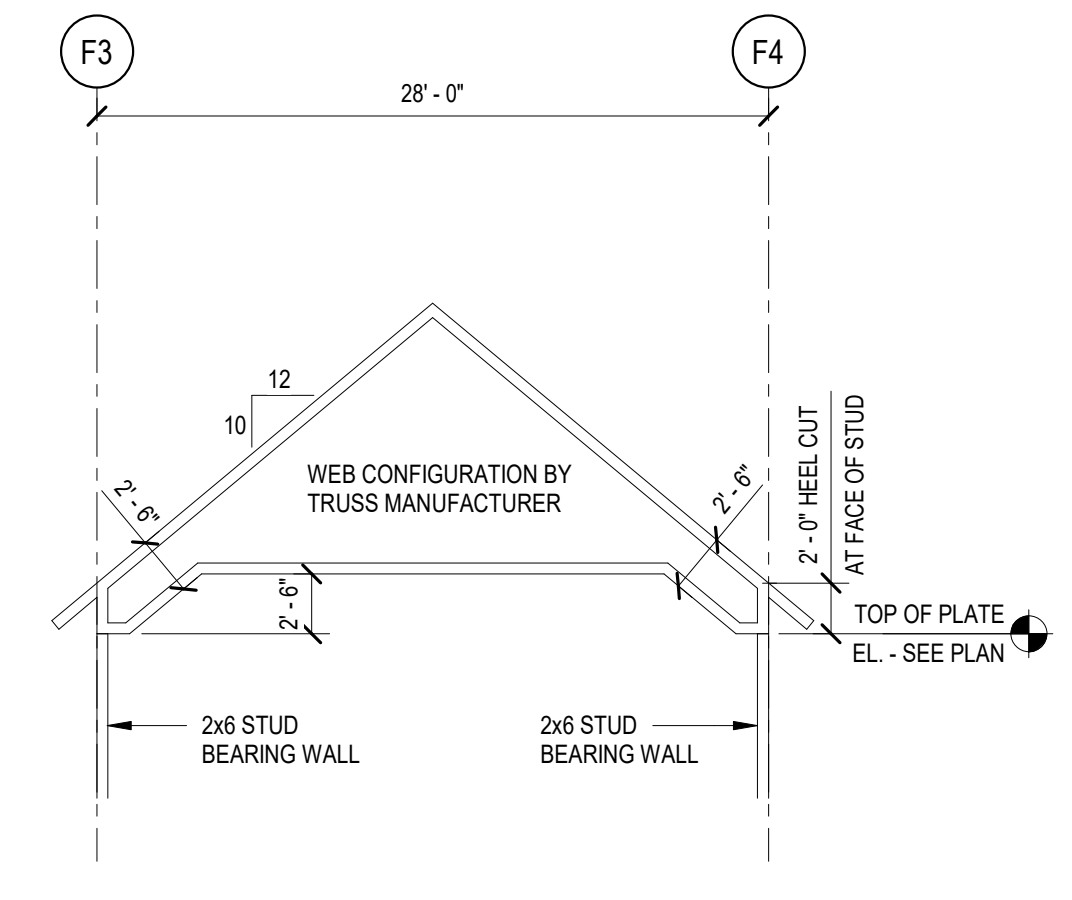
9 TYPE C TRUSS
1/8" = 1'-0"



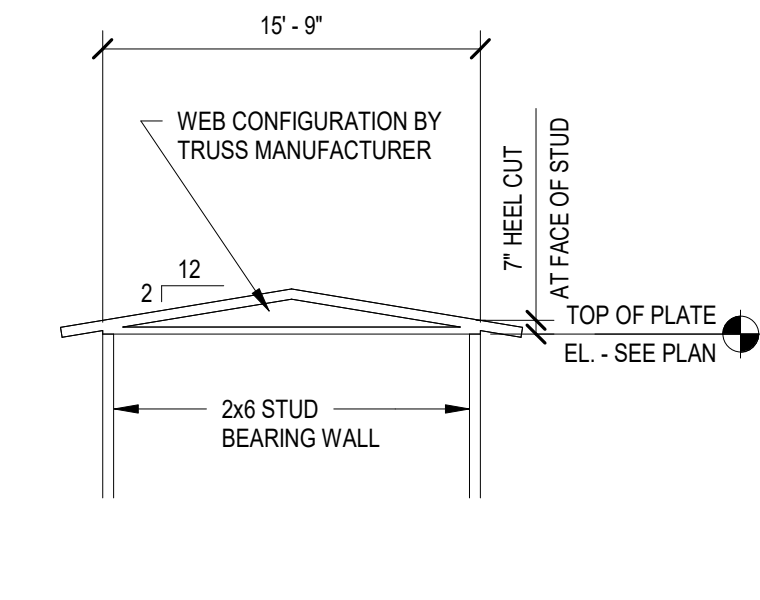
10 TYPE D TRUSS
1/8" = 1'-0"



11 TYPE E TRUSS
1/8" = 1'-0"



12 TYPE EE TRUSS
1/8" = 1'-0"



13 TYPE F TRUSS
1/8" = 1'-0"

REVISIONS:

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023



KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

TYPICAL TRUSS
DETAILS

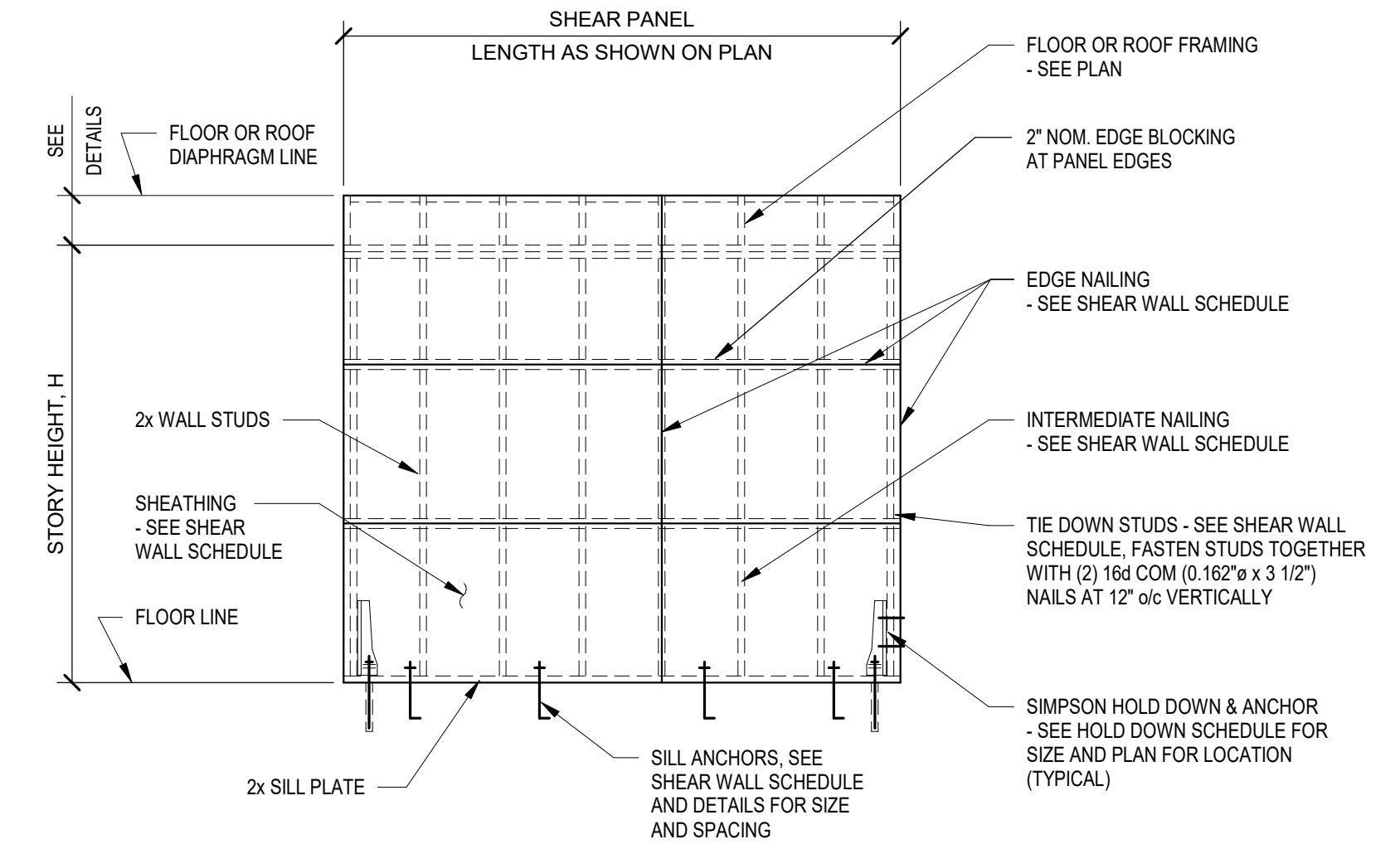
SK-3.3

SHEAR WALL SCHEDULE						
WALL MARK	SHEATHING	NAILING		MINIMUM TIE DOWN STUDS ⁸	BOTTOM PLATE ATTACHMENT	SILL ANCHORS
		AT PANEL EDGES	AT INTERMEDIATE SUPPORTS			
SW1	1/2" THICK ON ONE FACE	8d NAILS AT 6"oc	8d NAILS AT 12"oc	(2) 2x	(2) 16d COMMON NAILS AT 8"oc	1/2"Ø AT 32"oc
SW2	1/2" THICK ON ONE FACE	8d NAILS AT 4"oc	8d NAILS AT 12"oc	(2) 2x	(2) 16d COMMON NAILS AT 8"oc	1/2"Ø AT 24"oc
SW3	1/2" THICK ON ONE FACE	8d NAILS AT 3"oc	8d NAILS AT 12"oc	(2) 2x	(2) 16d COMMON NAILS AT 6"oc	1/2"Ø AT 16"oc

- NOTES:**
1. PROVIDE BLOCKING AT ALL PANEL EDGES.
 2. ALL STUDS SHALL BE SPF No. 1/ No. 2 OR BETTER.
 3. ALL WALL PLATES SHALL BE No. 1/ No. 2 OR BETTER.
 4. ALL SHEATHING SHALL BE APA RATED.
 5. ALL SHEAR WALLS TO EXTEND FROM FLOOR DIAPHRAGMS TO FLOOR OR ROOF DIAPHRAGMS.
 6. PROVIDE MINIMUM TIE DOWN STUDS UNLESS END POST NOTED OTHERWISE ON PLAN.
 7. FASTENERS: 8d COMMON (0.131"x2 1/2")
16d COMMON (0.162"x3 1/2")

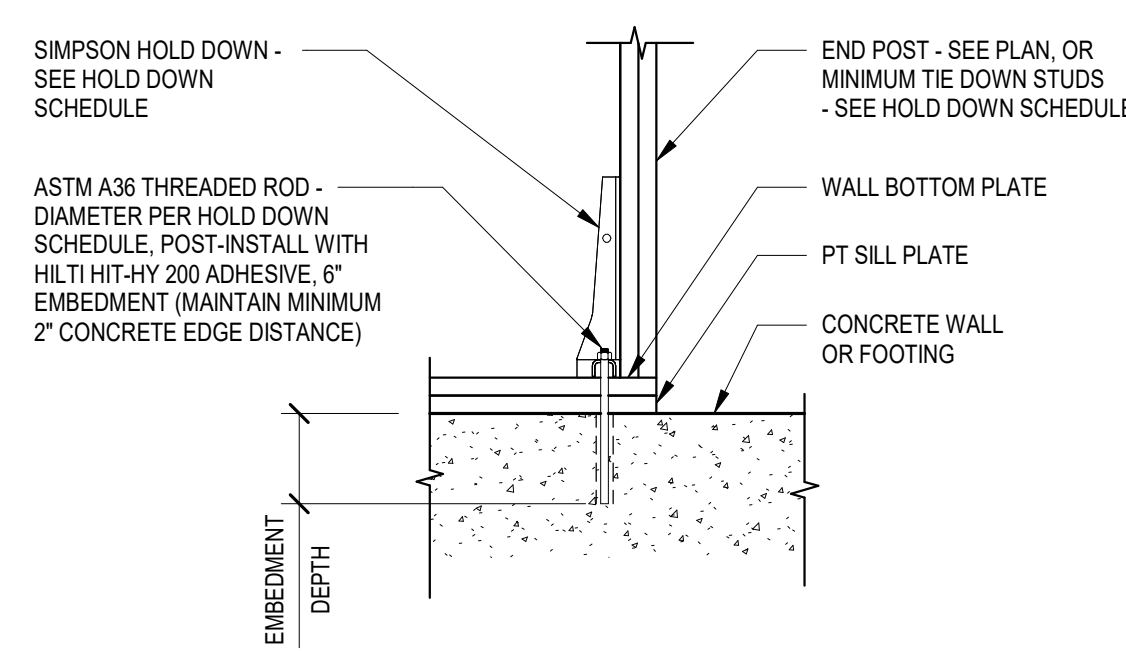
HOLD DOWN SCHEDULE				
MARK	HOLD DOWN	MINIMUM TIE DOWN STUDS ²	THREADED ROD ANCHOR	FASTENERS
HD1	DTT2Z-SDS2.5	(2) 2x	1/2"Ø THREADED ROD	(8) 1/4" x 2 1/2" SDS SCREWS
HD2	HTT4	(2) 2x	5/8"Ø THREADED ROD	(16) #10 x 1 1/2" SCREWS
HD3	HTT5KT	(2) 2x	5/8"Ø THREADED ROD	(26) #10 x 2 1/2" SCREWS
HD4	HOU8-SDS2.5	(3) 2x	7/8"Ø THREADED ROD	(20) 1/4" x 2 1/2" SDS SCREWS

- NOTES:**
1. HOLD DOWNS BY SIMPSON STRONG-TIE.
 2. PROVIDE MINIMUM TIE DOWN STUDS UNLESS END POST NOTED OTHERWISE ON PLAN.
 3. SEE TYPICAL HOLD DOWN DETAILS ON THIS SHEET.
 4. SEE PLAN FOR HOLD DOWN LOCATIONS.

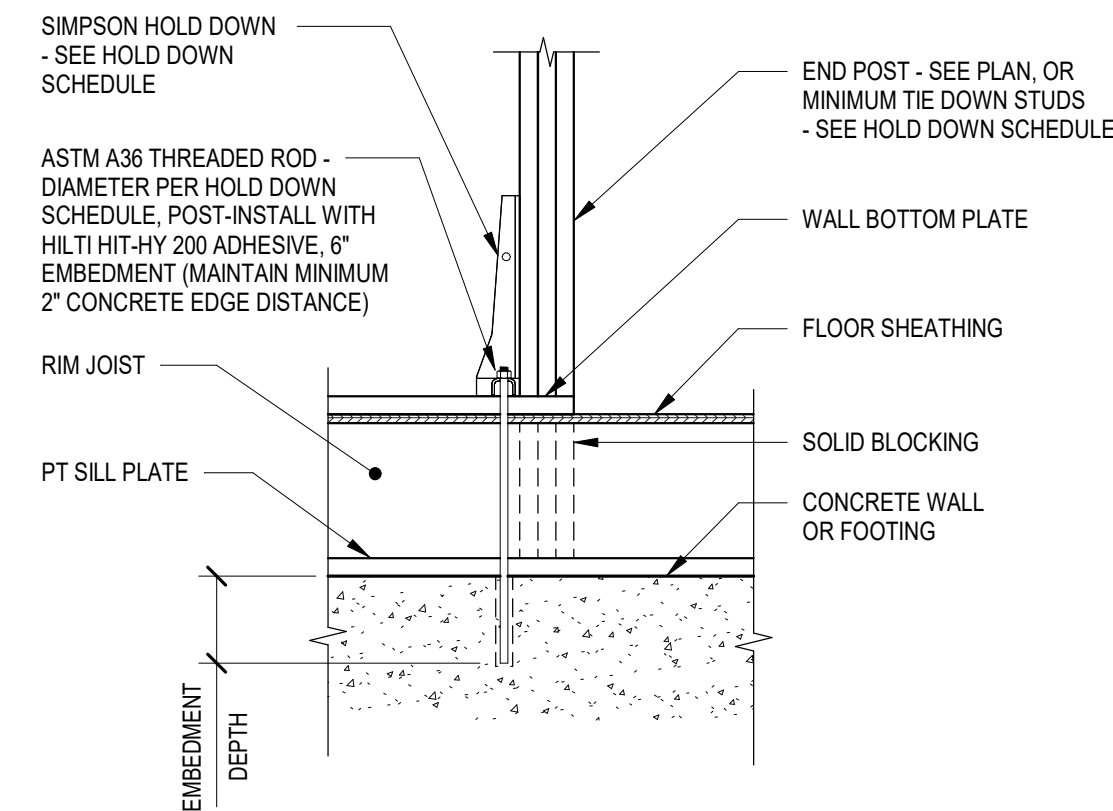


1 TYPICAL SHEAR PANEL DETAIL
1/8" = 1'-0"

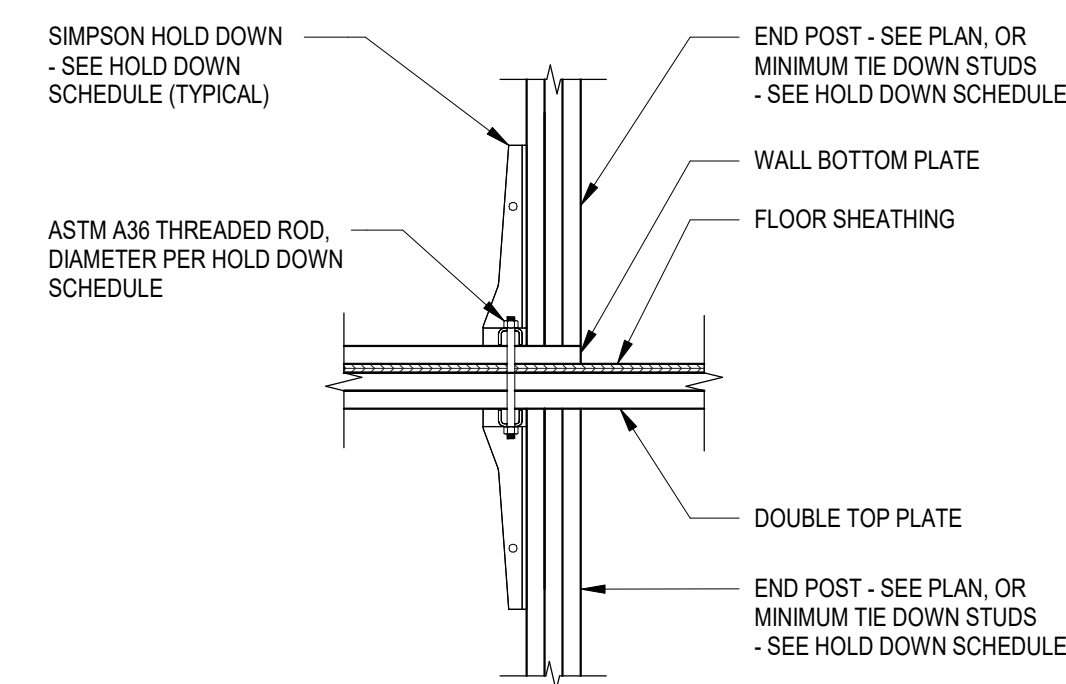
- NOTES:**
1. PROVIDE BLOCKING AT ALL PANEL EDGES.
 2. ALL STUDS SHALL BE SPF No. 1/ No. 2 OR BETTER.
 3. ALL WALL PLATES SHALL BE No. 1/ No. 2 OR BETTER.
 4. ALL SHEATHING SHALL BE APA RATED.
 5. ALL SHEAR WALLS TO EXTEND FROM FLOOR DIAPHRAGMS TO FLOOR OR ROOF DIAPHRAGMS.



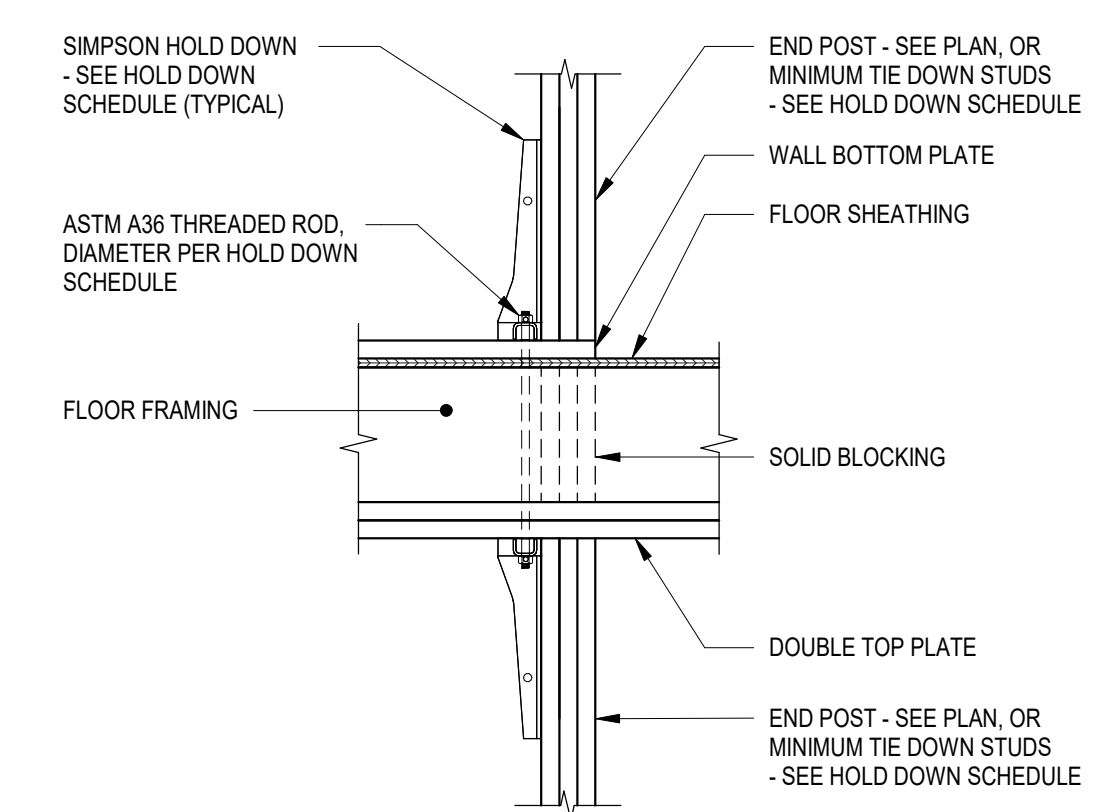
2 TYPICAL SHEAR WALL HOLD DOWN DETAIL
3/4" = 1'-0"



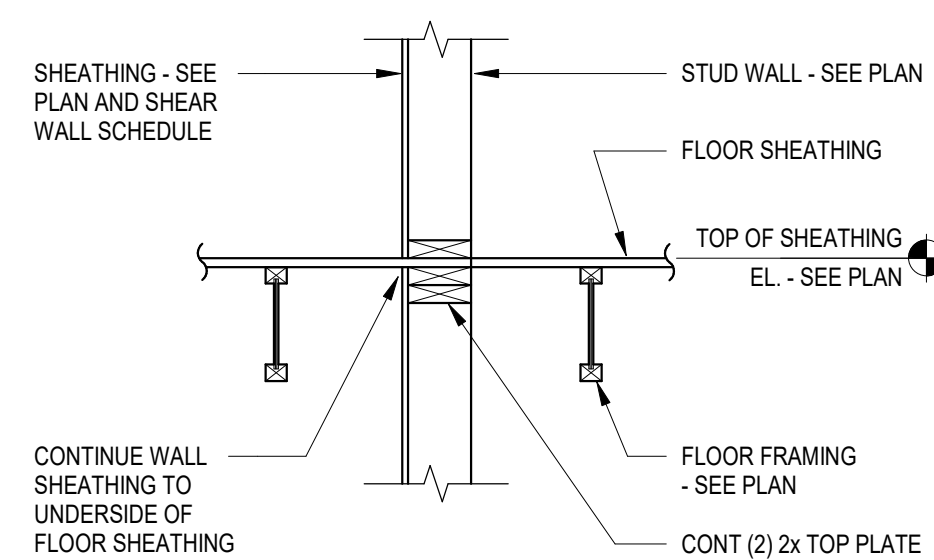
3 TYPICAL SHEAR WALL HOLD DOWN
3/4" = 1'-0"



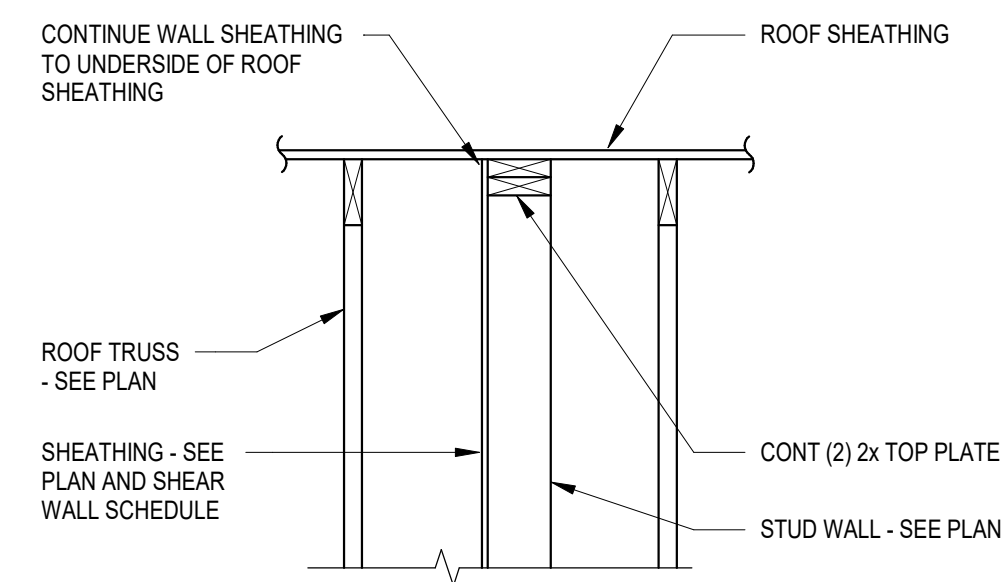
4 TYPICAL SHEAR WALL HOLD DOWN
3/4" = 1'-0"



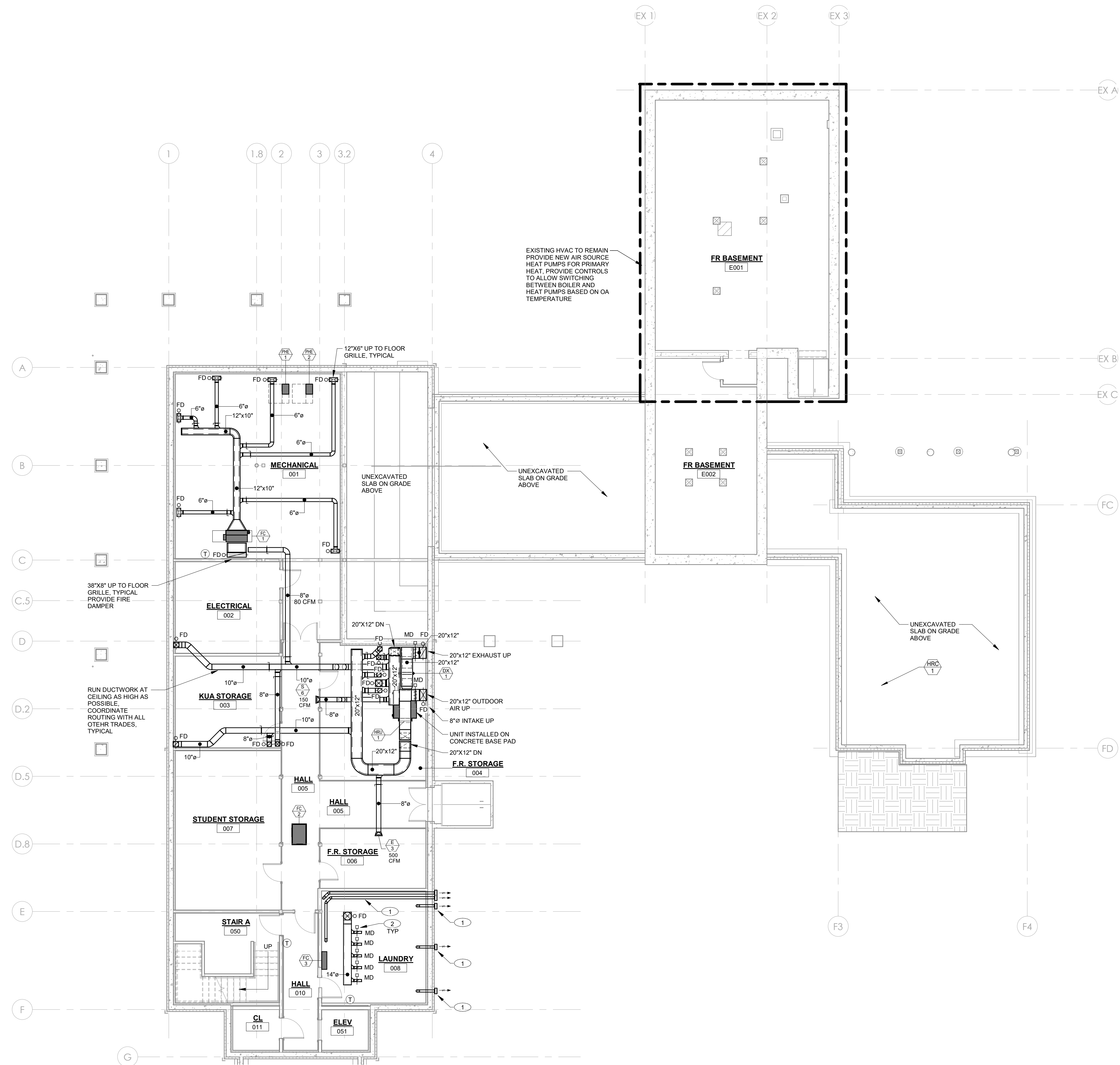
5 TYPICAL SHEAR WALL HOLD DOWN
3/4" = 1'-0"



6 INTERIOR SHEAR WALL SECTION AT FLOOR
3/4" = 1'-0"



7 INTERIOR SHEAR WALL SECTION AT ROOF
3/4" = 1'-0"



DRAWING NOTES:
 THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- 1 PROVIDE 4" DRYER VENT, TERMINATE THROUGH SIDE WALL AS HIGH AS POSSIBLE, PROVIDE WALL CAP WITH BACKDRAFT DAMPER.
- 2 PROVIDE 4" DRYER MAKE-UP AIR DUCT WITH MOTORIZED DAMPER, INTERLOCK DAMPER WITH RESPECTIVE DRYER, PROVIDE 1/4"x1/4" GALVANIZED SCREEN OVER DUCT OPENING.

EXISTING HVAC TO REMAIN
 PROVIDE NEW AIR SOURCE
 HEAT PUMPS FOR PRIMARY
 HEAT. PROVIDE CONTROLS
 TO ALLOW SWITCHING
 BETWEEN BOILER AND
 HEAT PUMPS BASED ON OA
 TEMPERATURE

38"X8" UP TO FLOOR
 GRILLE, TYPICAL
 PROVIDE FIRE
 DAMPER

RUN DUCTWORK AT
 CEILING AS HIGH AS
 POSSIBLE.
 COORDINATE
 ROUTING WITH ALL
 OTHER TRADES,
 TYPICAL

MECHANICAL AIR DISTRIBUTION BASEMENT PLAN
 Scale: 1/8" = 1'-0"



PERMIT SET 05/15/2023

**KUA
 KILTON/WELCH
 DORMITORIES**

Main Street
 Meriden, NH 03770

**KILTON BASEMENT
 - AIR DISTRIBUTION**

MK-1.1

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**KUA
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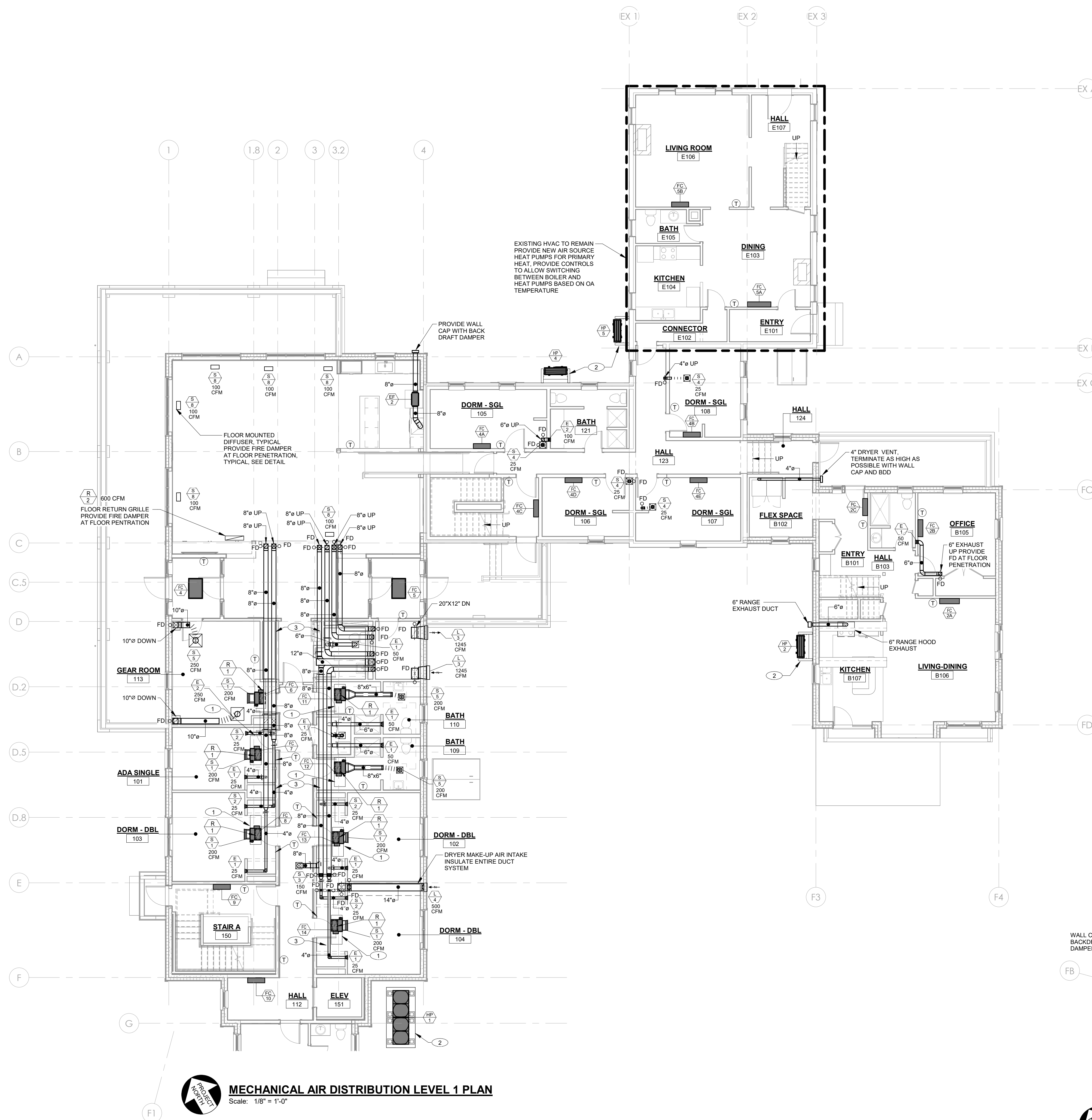
**KILTON FIRST
FLOOR - AIR
DISTRIBUTION**

MK-1.2

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- 1 PROVIDE LOCKABLE 16"x16" CEILING ACCESS PANEL BELOW UNIT TO PERMIT SERVICE AND ACCESS TO CONCEALED FAN COIL UNIT.
- 2 INSTALL HEAT PUMP UNIT ON CONCRETE BASE PAD. INSTALL ON 18" HIGH WALL SUPPORT STAND, BUILDING CONTRACTOR TO CONSTRUCT PROTECTIVE ROOF STRUCTURE OVER THE HEAT PUMP UNIT.
- 3 RUN ALL DUCTWORK IN SOFFIT. PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL GRILLES, REGISTERS AND DIFFUSERS.



MECHANICAL AIR DISTRIBUTION LEVEL 1 PLAN
Scale: 1/8" = 1'-0"

MECHANICAL AIR DISTRIBUTION LEVEL 1 PLAN - F.R. "A"
Scale: 1/8" = 1'-0"

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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

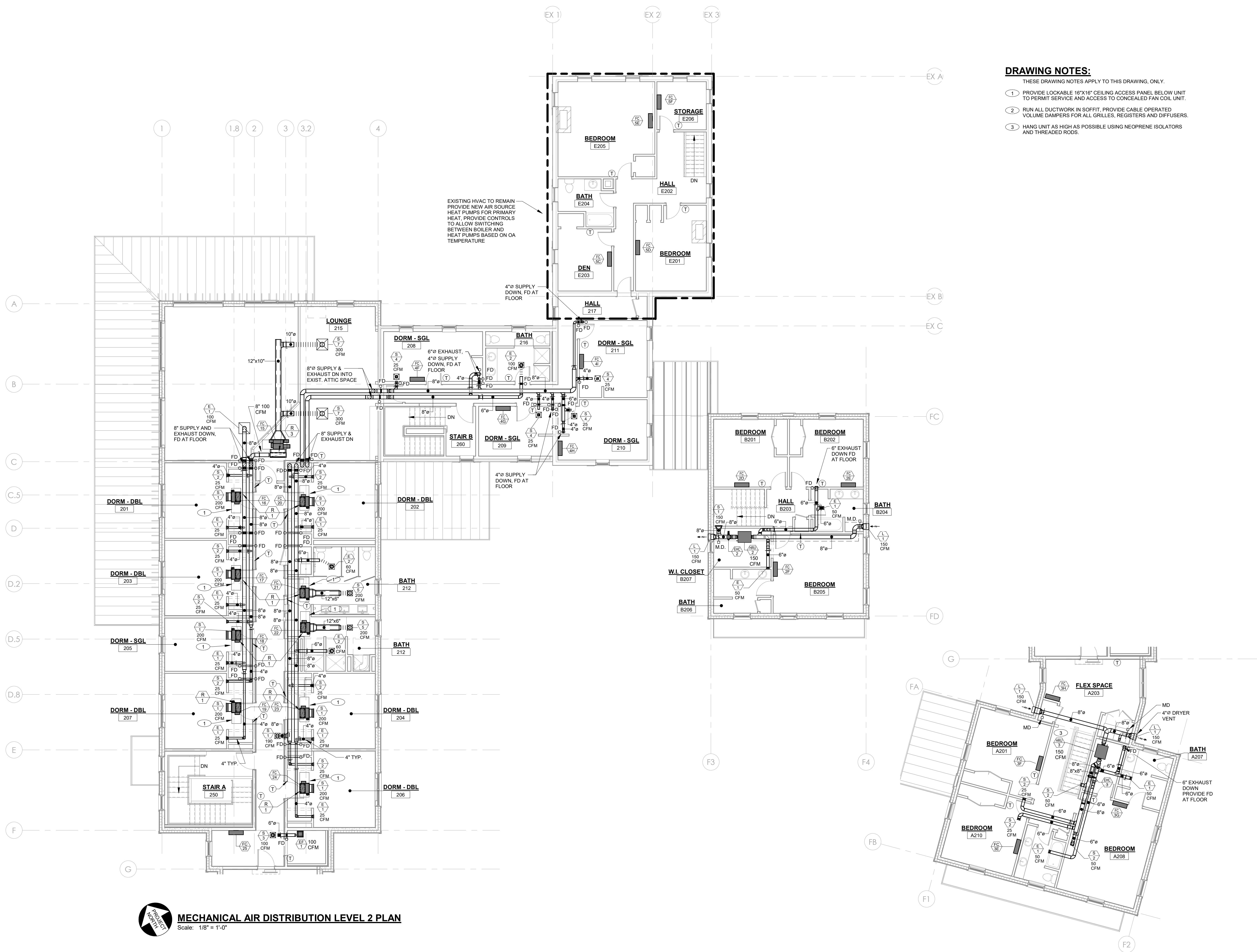
**KILTON SECOND
FLOOR - AIR
DISTRIBUTION**

MK-1.3

DRAWING NOTES:

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- 1 PROVIDE LOCKABLE 16"x16" CEILING ACCESS PANEL BELOW UNIT TO PERMIT SERVICE AND ACCESS TO CONCEALED FAN COIL UNIT.
- 2 RUN ALL DUCTWORK IN SOFFIT. PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL GRILLES, REGISTERS AND DIFFUSERS.
- 3 HANG UNIT AS HIGH AS POSSIBLE USING NEOPRENE ISOLATORS AND THREADED RODS.



MECHANICAL AIR DISTRIBUTION LEVEL 2 PLAN
Scale: 1/8" = 1'-0"

MECHANICAL AIR DISTRIBUTION LEVEL 2 PLAN - F.R. "A"
Scale: 1/8" = 1'-0"

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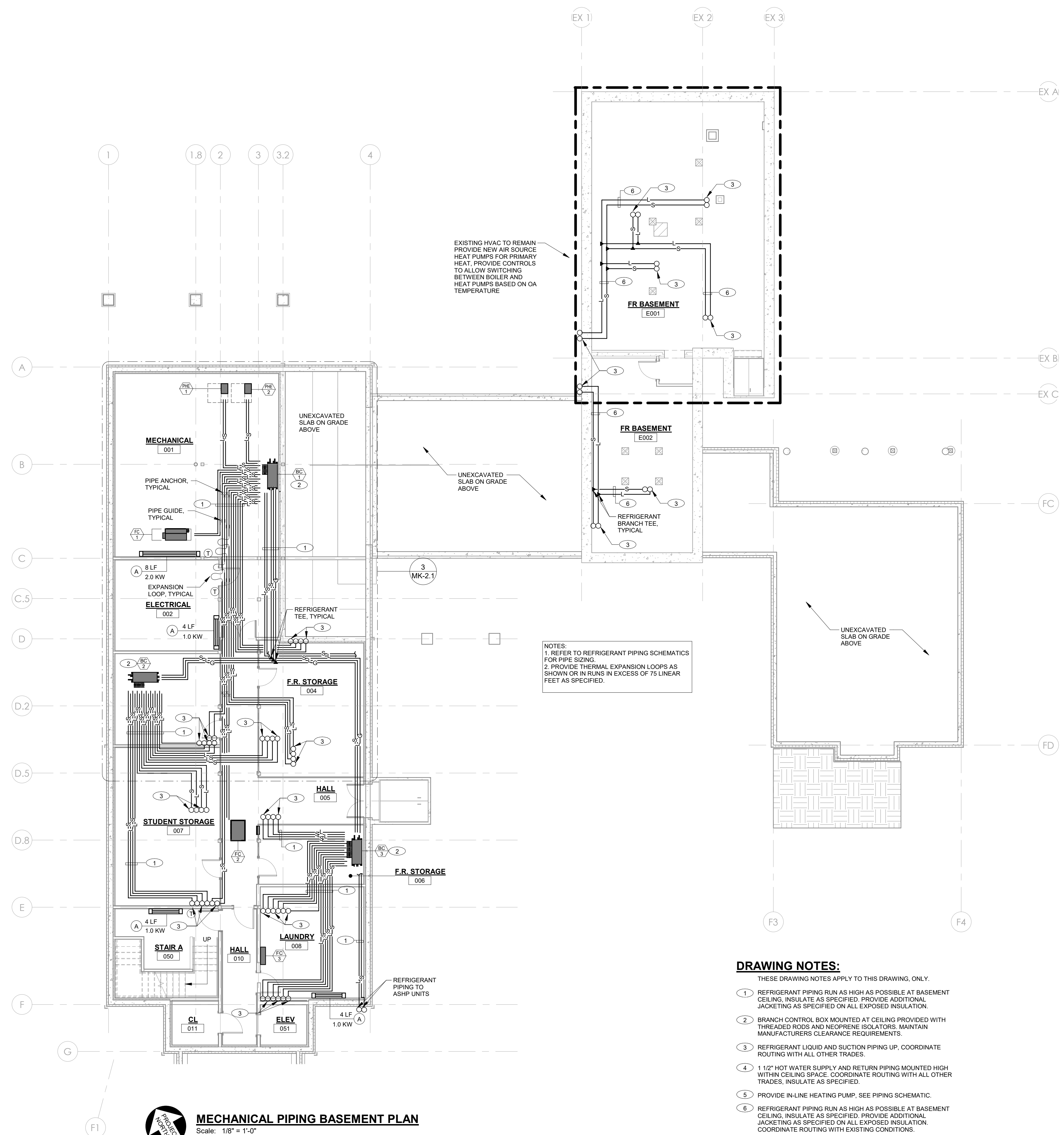
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON BASEMENT
- MECHANICAL
PIPING**

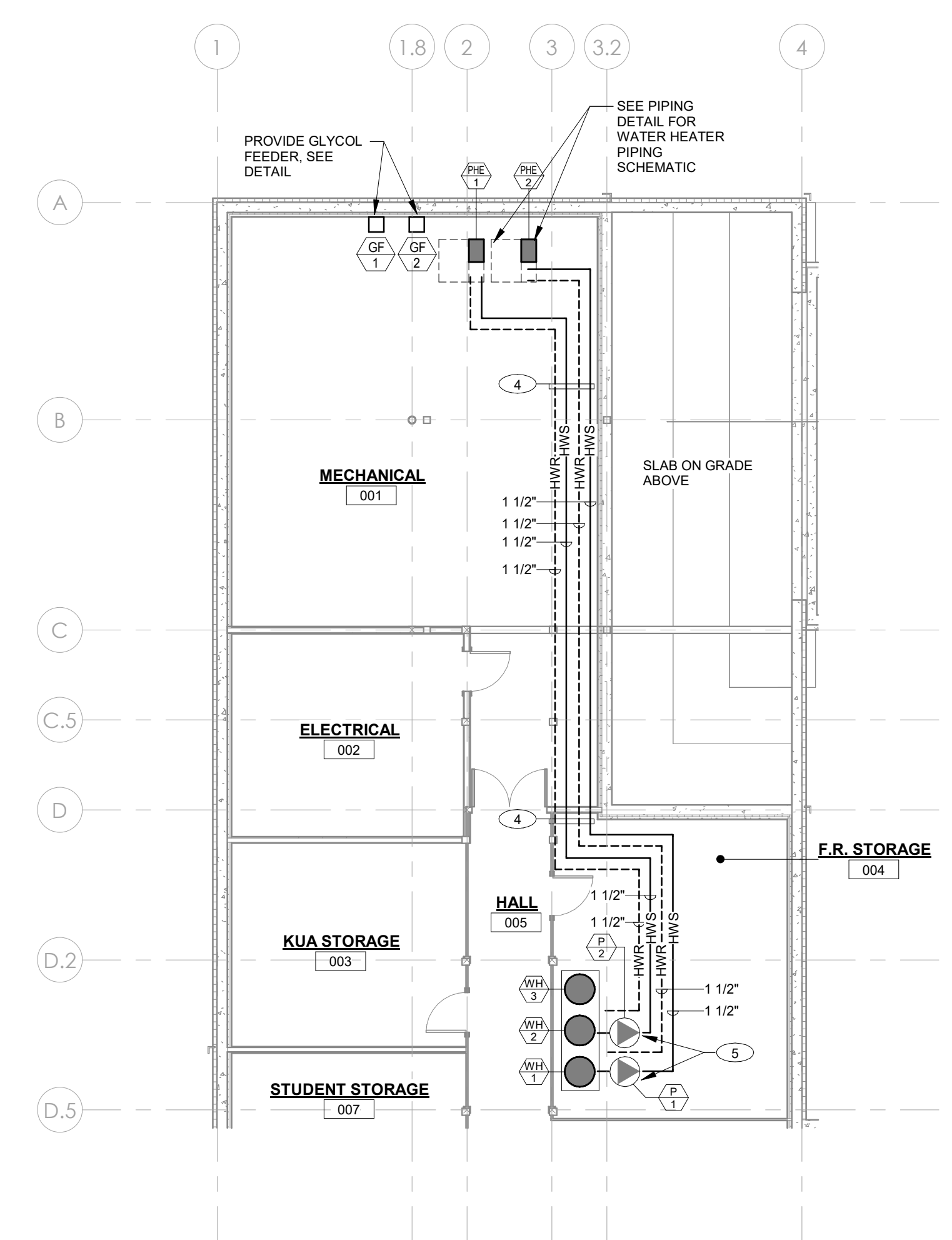
MK-2.1



EXISTING HVAC TO REMAIN
PROVIDE NEW AIR SOURCE
HEAT PUMPS FOR PRIMARY
HEAT. PROVIDE CONTROLS
TO ALLOW SWITCHING
BETWEEN BOILER AND
HEAT PUMPS BASED ON OA
TEMPERATURE

NOTES:
1. REFER TO REFRIGERANT PIPING SCHEMATICS
FOR PIPE SIZING.
2. PROVIDE THERMAL EXPANSION LOOPS AS
SHOWN OR IN RUNS IN EXCESS OF 75 LINEAR
FEET AS SPECIFIED.

- DRAWING NOTES:**
THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 REFRIGERANT PIPING RUN AS HIGH AS POSSIBLE AT BASEMENT CEILING. INSULATE AS SPECIFIED. PROVIDE ADDITIONAL JACKETING AS SPECIFIED ON ALL EXPOSED INSULATION.
 - 2 BRANCH CONTROL BOX MOUNTED AT CEILING PROVIDED WITH THREADED RODS AND NEOPRENE ISOLATORS. MAINTAIN MANUFACTURERS CLEARANCE REQUIREMENTS.
 - 3 REFRIGERANT LIQUID AND SUCTION PIPING UP. COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 4 1 1/2" HOT WATER SUPPLY AND RETURN PIPING MOUNTED HIGH WITHIN CEILING SPACE. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
 - 5 PROVIDE IN-LINE HEATING PUMP. SEE PIPING SCHEMATIC.
 - 6 REFRIGERANT PIPING RUN AS HIGH AS POSSIBLE AT BASEMENT CEILING. INSULATE AS SPECIFIED. PROVIDE ADDITIONAL JACKETING AS SPECIFIED ON ALL EXPOSED INSULATION. COORDINATE ROUTING WITH EXISTING CONDITIONS.



MECHANICAL PIPING BASEMENT PARTIAL PLAN
Scale: 1/8" = 1'-0"



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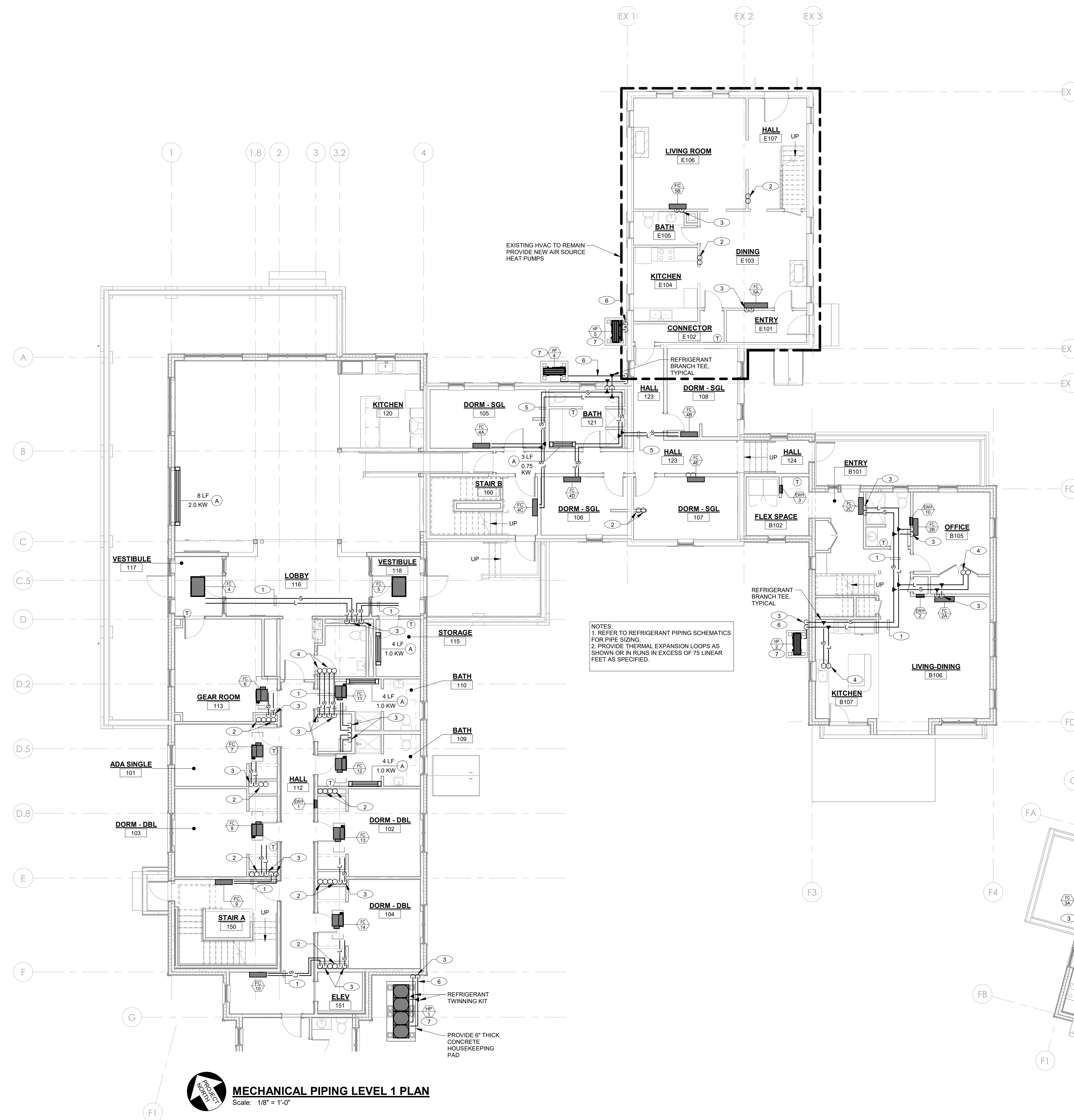
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KUA
KILTON/WELCH
DORMITORIES

Main Street
Meriden, NH 03770

KILTON FIRST
FLOOR - PIPING

MK-2.2



DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING ONLY.

- 1 REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH ALL OTHER TRADES. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.
- 2 REFRIGERANT LIQUID AND SUCTION PIPING UP AND DOWN.
- 3 REFRIGERANT LIQUID AND SUCTION PIPING DOWN.
- 4 REFRIGERANT LIQUID AND SUCTION PIPING UP.
- 5 REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH EXISTING CONDITIONS. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.
- 6 EXTERIOR REFRIGERANT PIPING TO BE INSULATED, SUPPORTED, AND PROVIDED WITH ADDITIONAL ALUMINUM JACKETING AS SPECIFIED.
- 7 OUTDOOR HEAT PUMP UNIT PROVIDED WITH 18" HIGH MINIMUM EQUIPMENT BASE MOUNTED SUPPORT STAND. ANCHOR TO CONCRETE HOUSEKEEPING PAD. SEE DETAIL.

NOTES:
1. REFER TO REFRIGERANT PIPING SCHEMATICS FOR PIPE SIZING.
2. PROVIDE THERMAL EXPANSION LOOPS AS SHOWN OR IN RUNS IN EXCESS OF 75 LINEAR FEET AS SPECIFIED.

MECHANICAL PIPING LEVEL 1 PLAN
Scale: 1/8" = 1'-0"

MECHANICAL PIPING LEVEL 1 PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



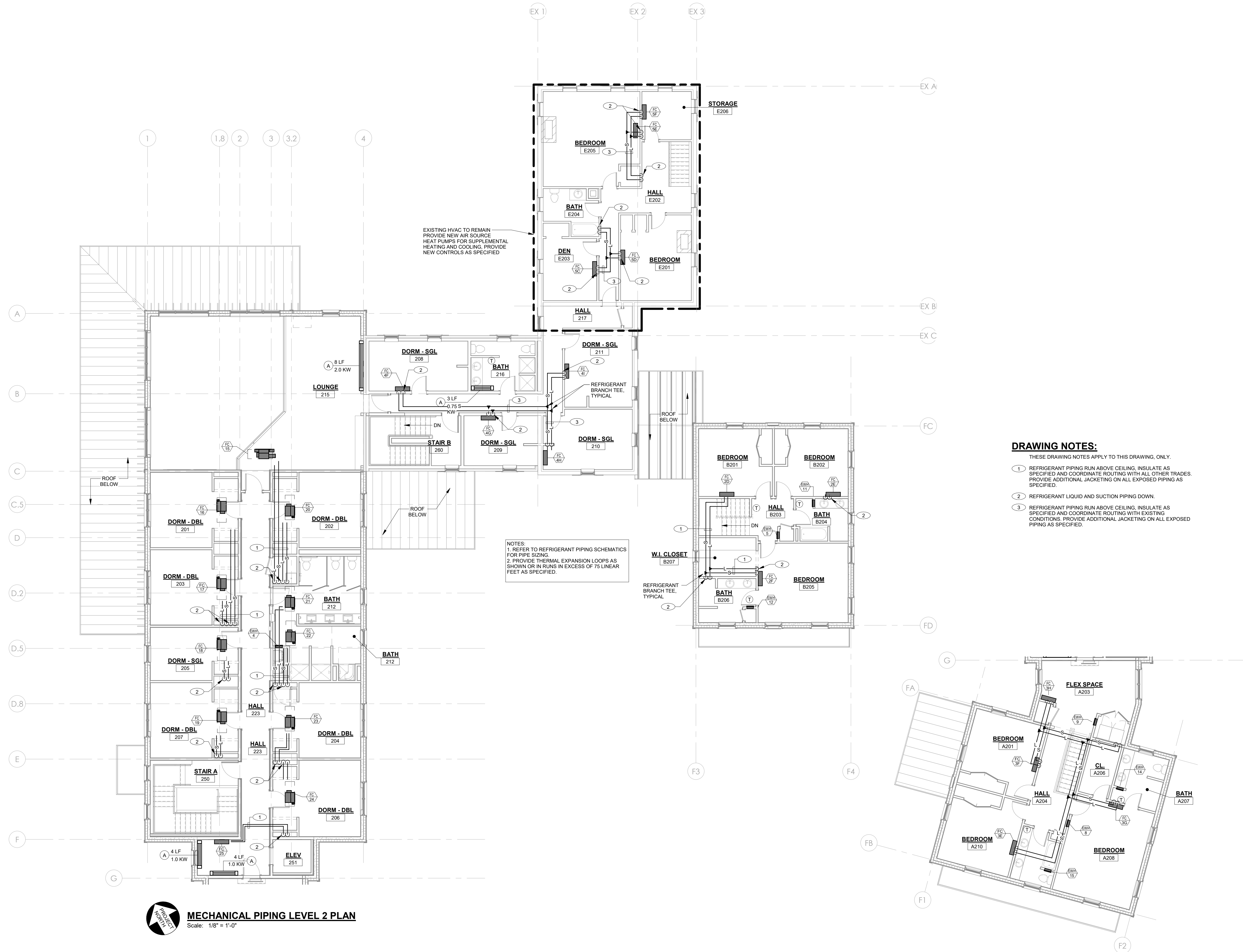
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON SECOND
FLOOR - PIPING**

MK2.3



DRAWING NOTES:
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- REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH ALL OTHER TRADES. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.
- REFRIGERANT LIQUID AND SUCTION PIPING DOWN.
- REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH EXISTING CONDITIONS. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.

MECHANICAL PIPING LEVEL 2 PLAN
Scale: 1/8" = 1'-0"

MECHANICAL PIPING LEVEL 2 PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



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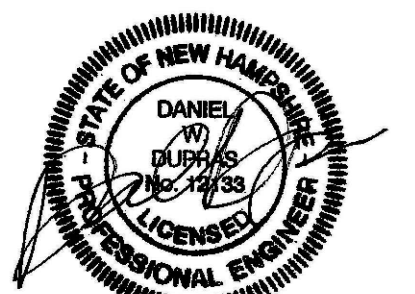
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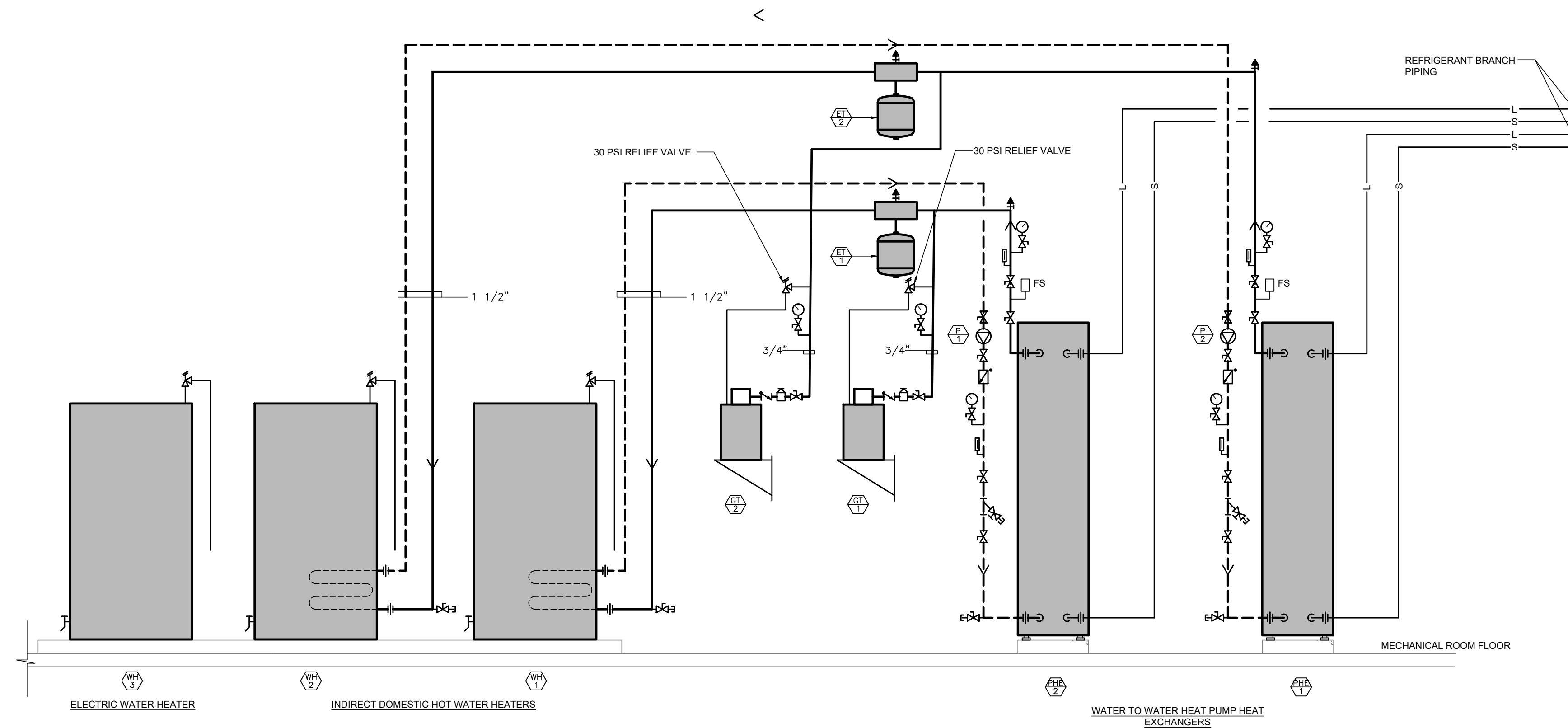


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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770
**MECHANICAL
DETAILS**

MK-3.1



HOT WATER SYSTEM PIPING DIAGRAM

NOT TO SCALE

EQUIPMENT LIST

- AMTROL MODEL 445 AIR SCOOP WITH AIR VENT-SIZE 1 1/2"
- AMTROL MODEL EX-60 EXPANSION TANK
- AXIOM MODEL MF200, 6 GALLON TANK WITH PUMP, TANK MOUNTING SHELF



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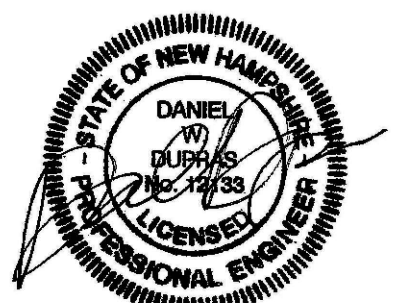
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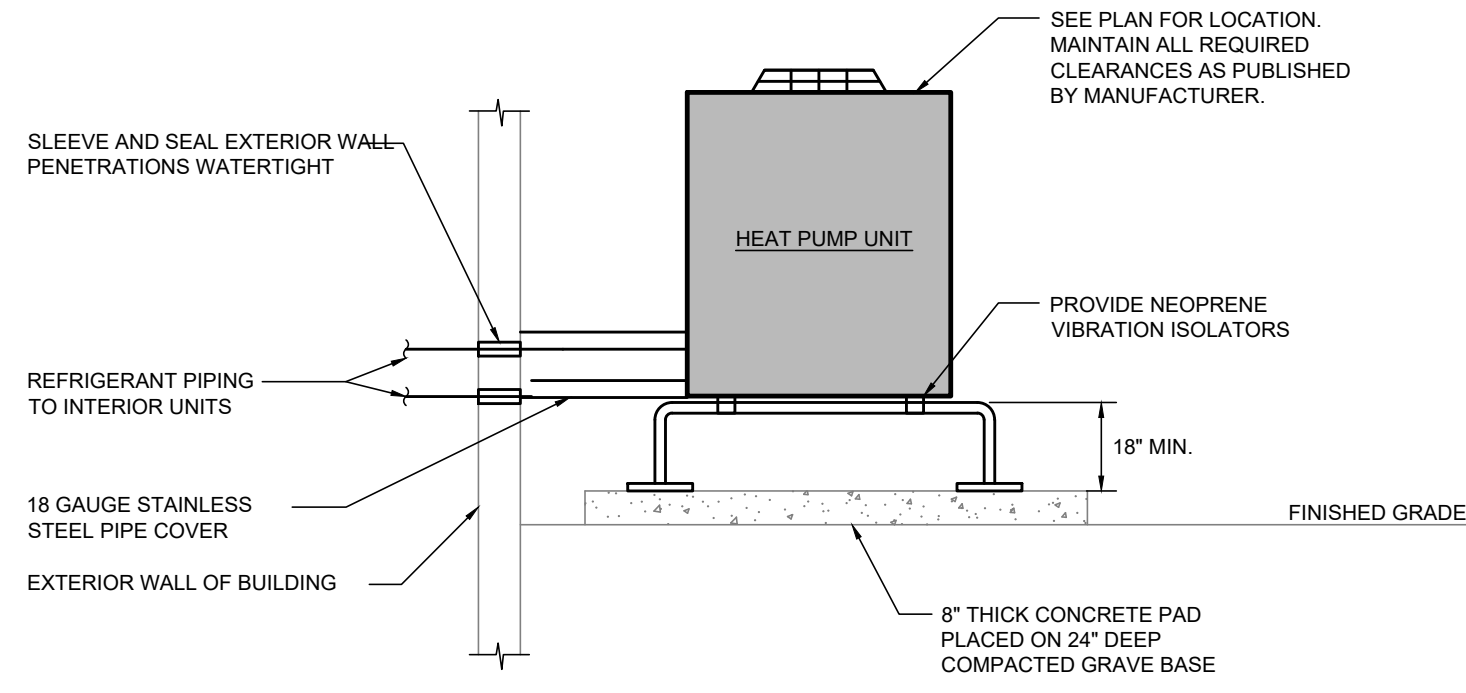
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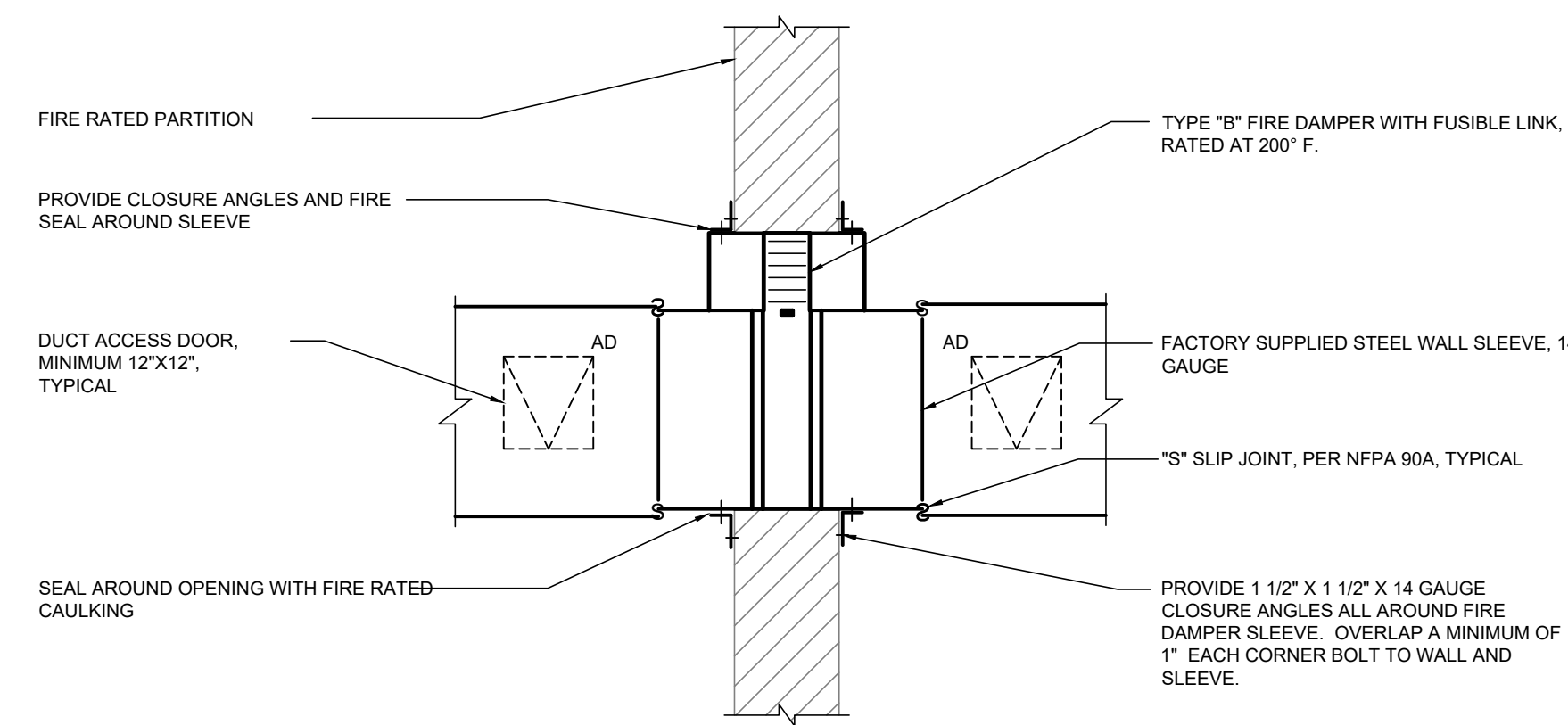
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MECHANICAL
DETAILS

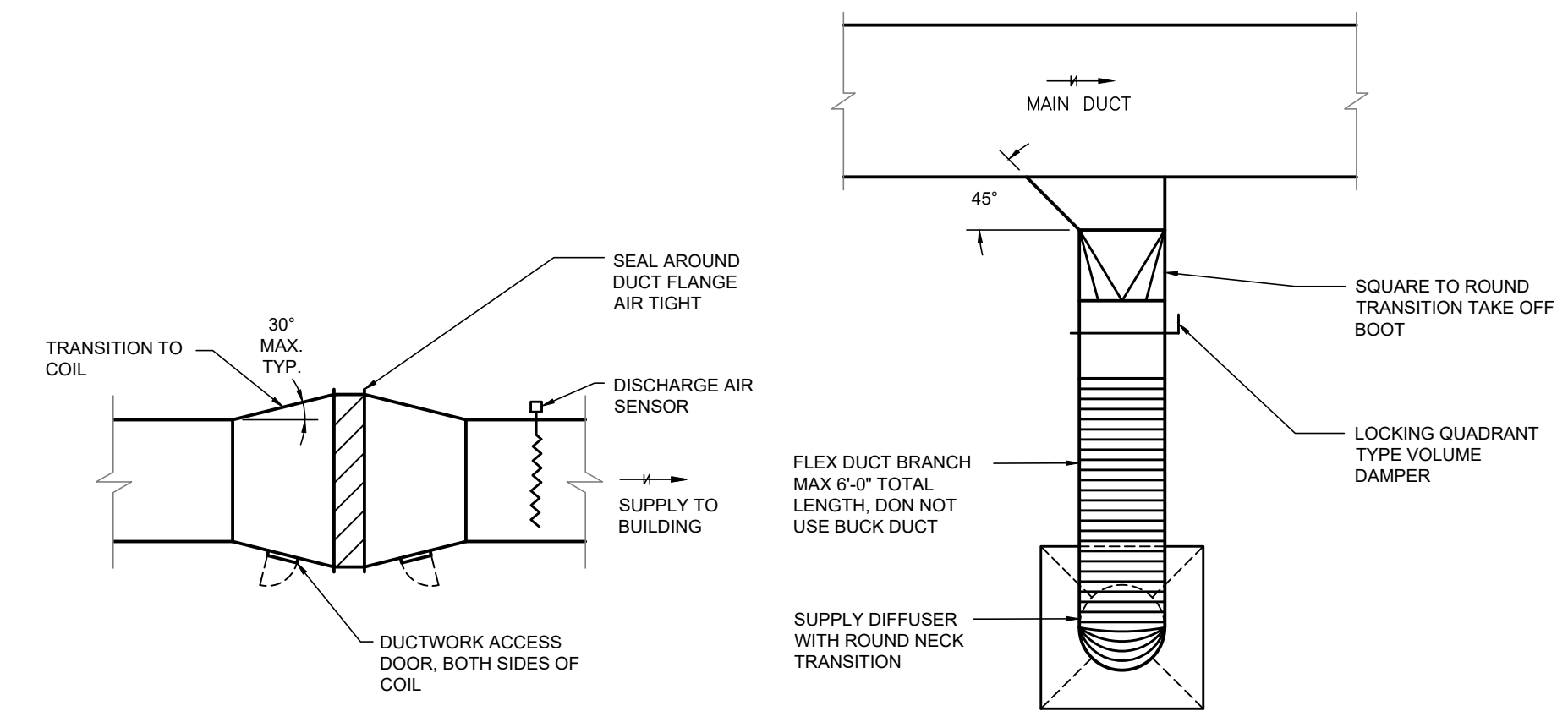
MK-3.2



HEAT PUMP UNIT DETAIL
NOT TO SCALE

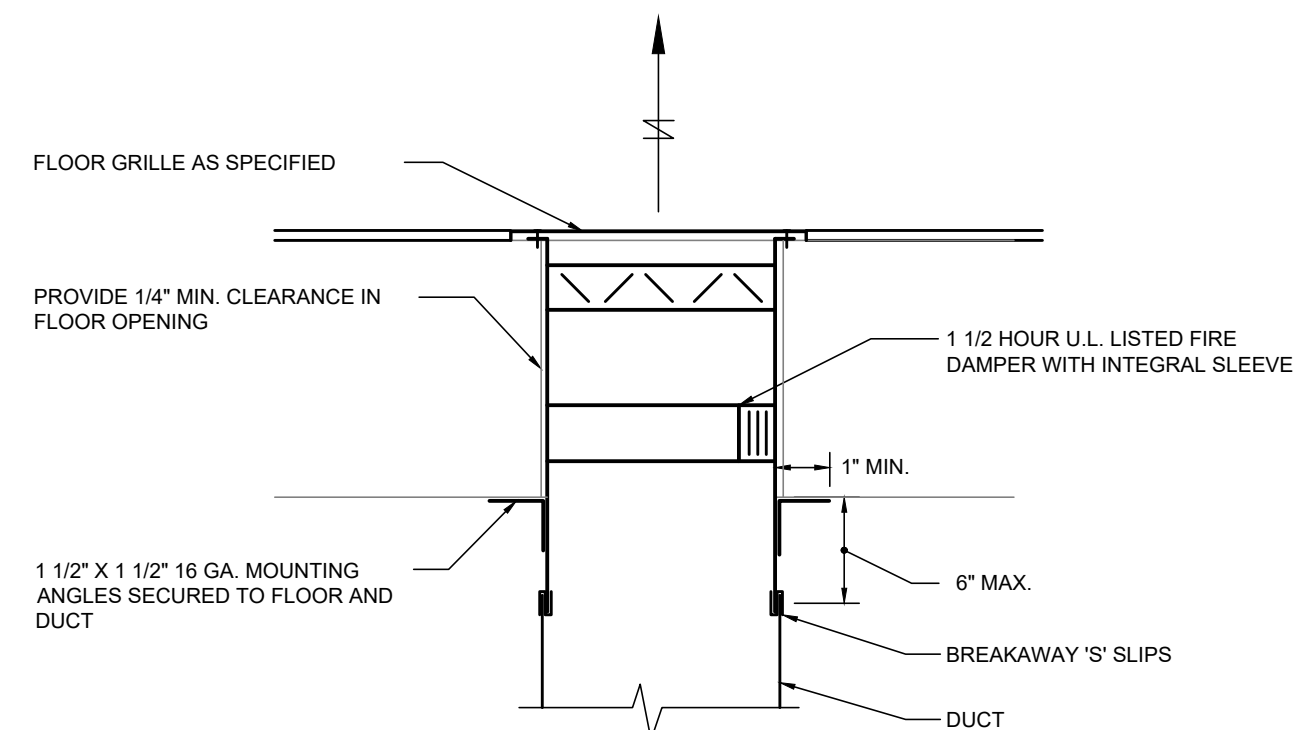


FIRE DAMPER DETAIL
NOT TO SCALE



DUCT COIL INSTALLATION DETAIL
NOT TO SCALE

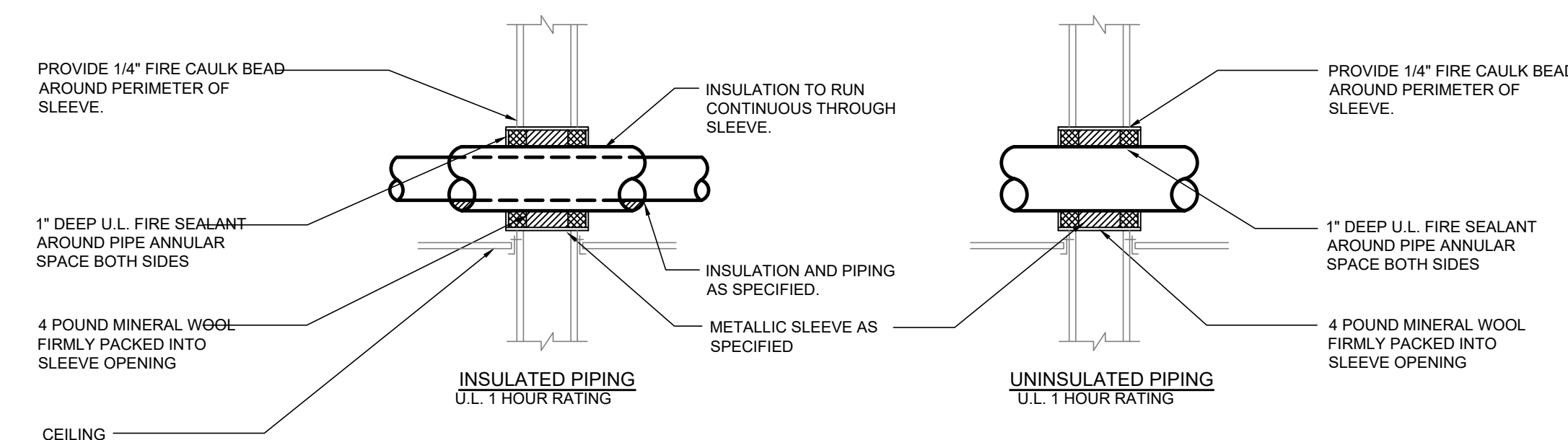
TYPICAL DIFFUSER/REGISTER
FLEXIBLE DUCT DETAIL
NOT TO SCALE



FLOOR GRILLE WITH FIRE DAMPER
NOT TO SCALE

NOTE:

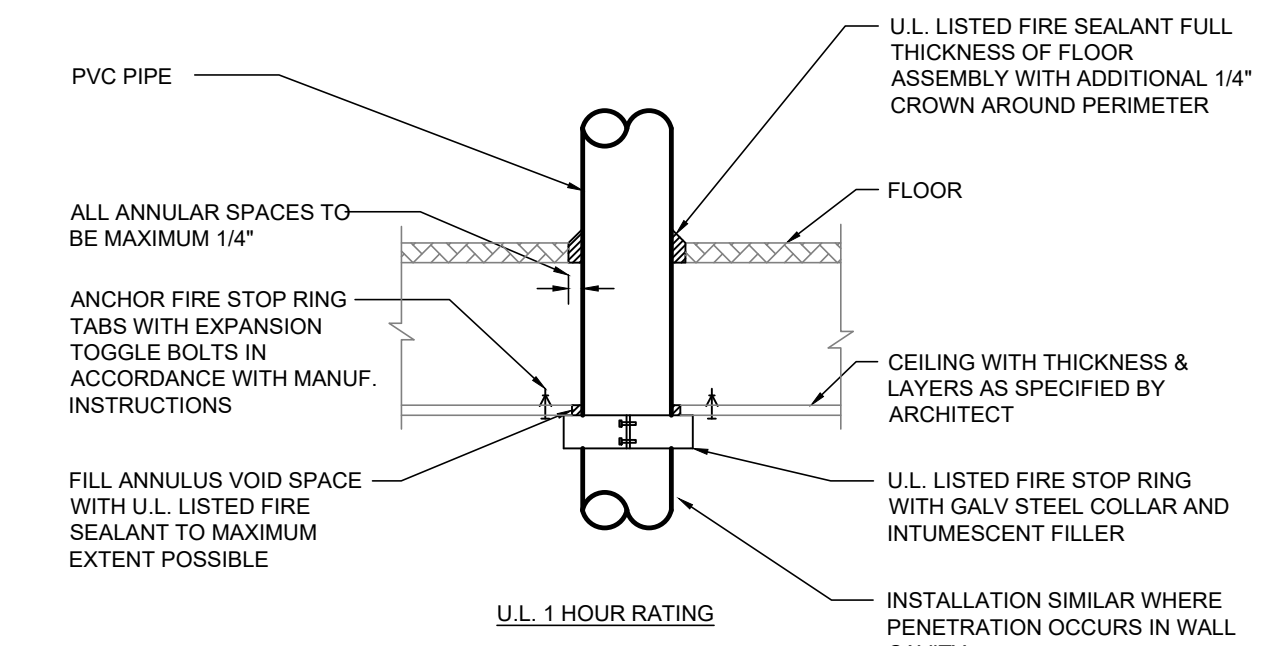
- 1) DAMPER ASSEMBLY SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND MEET U.L. REQUIREMENTS.



METALLIC PIPE WALL
PENETRATION DETAILS
NOT TO SCALE

NOTE:

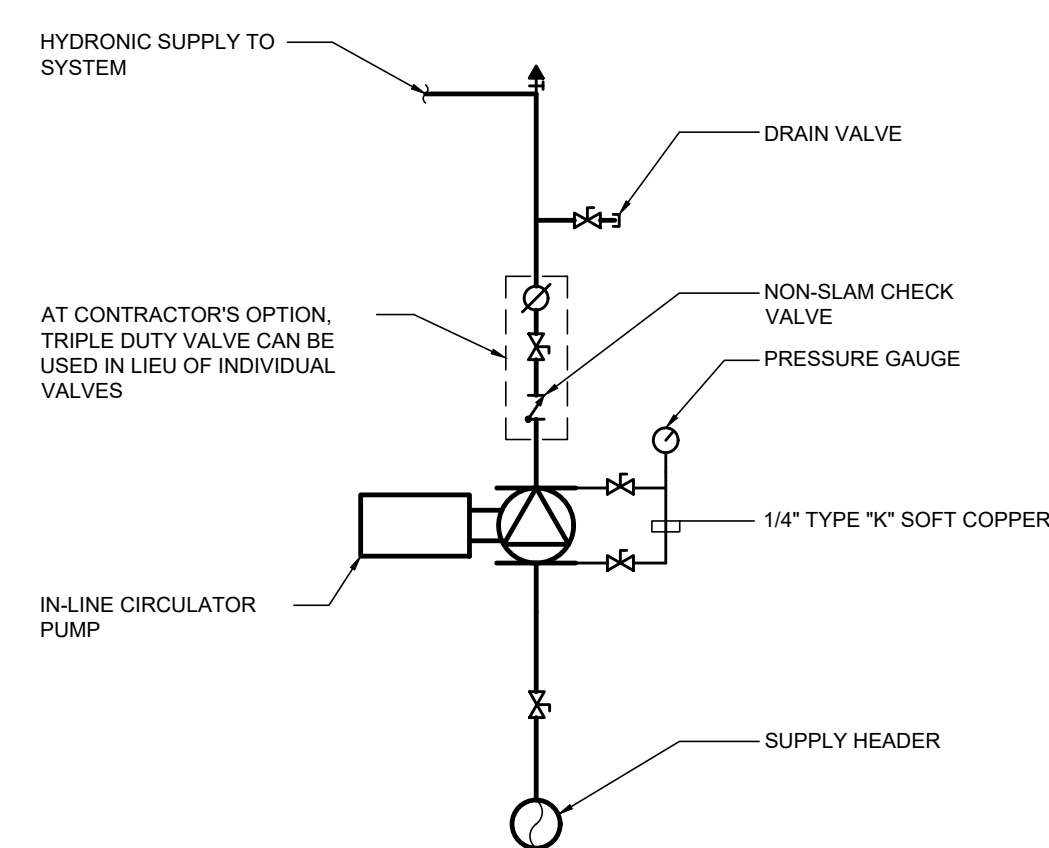
- 1) FOLLOW FIRE SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
- 2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
- 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS. ALTERNATE MANUFACTURER'S INSTALLATION REQUIREMENTS MAY VARY.
- 4) ALL WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL ASSEMBLIES.
- 5) PROVIDE CHROME PLATED ESCUTCHEONS FOR ALL EXPOSED LOCATIONS.



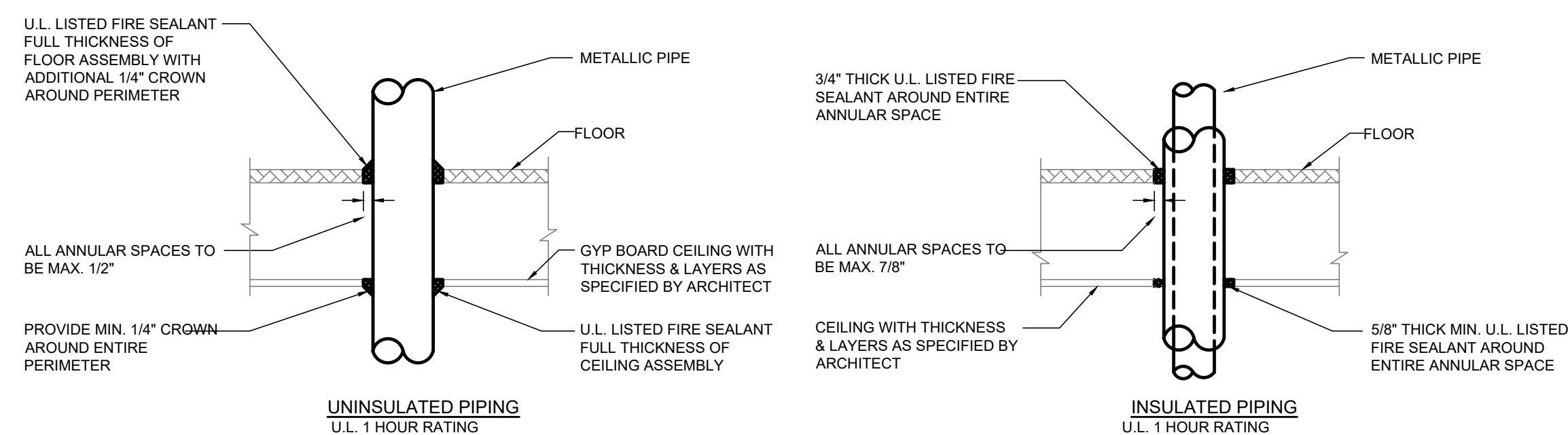
PVC PIPE FLOOR
PENETRATION DETAILS
NOT TO SCALE

NOTE:

- 1) FOLLOW FIRE SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
- 2) ALL FIRE RATED FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
- 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS. ALTERNATE MANUFACTURER'S INSTALLATION REQUIREMENTS MAY VARY.
- 4) ALL FLOOR & WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL OR FLOOR ASSEMBLY.
- 5) PROVIDE CHROME PLATED ESCUTCHEONS FOR ALL EXPOSED LOCATIONS.



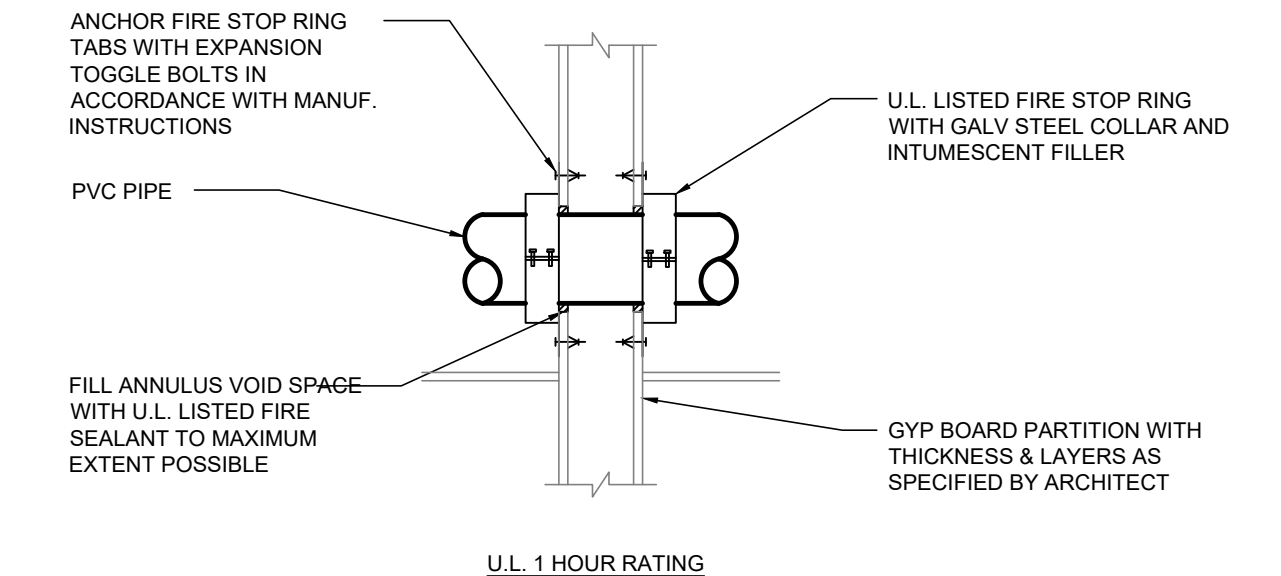
IN-LINE PUMP PIPING
DETAIL
NOT TO SCALE



METALLIC PIPE FLOOR
PENETRATION DETAILS
NOT TO SCALE

NOTE:

- 1) FOLLOW FIRE SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
- 2) ALL FIRE RATED FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
- 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS. ALTERNATE MANUFACTURER'S INSTALLATION REQUIREMENTS MAY VARY.
- 4) ALL FLOOR PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF FLOOR ASSEMBLIES.
- 5) PROVIDE CHROME PLATED ESCUTCHEONS FOR ALL EXPOSED LOCATIONS.



PVC PIPE WALL
PENETRATION DETAILS
NOT TO SCALE

NOTE:

- 1) FOLLOW FIRE SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
- 2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
- 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS. ALTERNATE MANUFACTURER'S INSTALLATION REQUIREMENTS MAY VARY.
- 4) ALL FLOOR & WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL OR FLOOR ASSEMBLY.
- 5) PROVIDE CHROME PLATED ESCUTCHEON FOR EXPOSED LOCATIONS.

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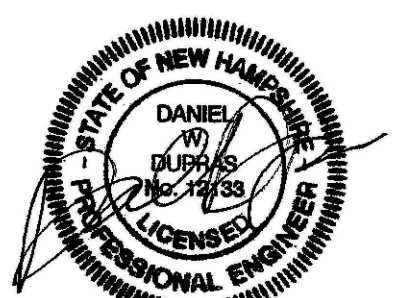
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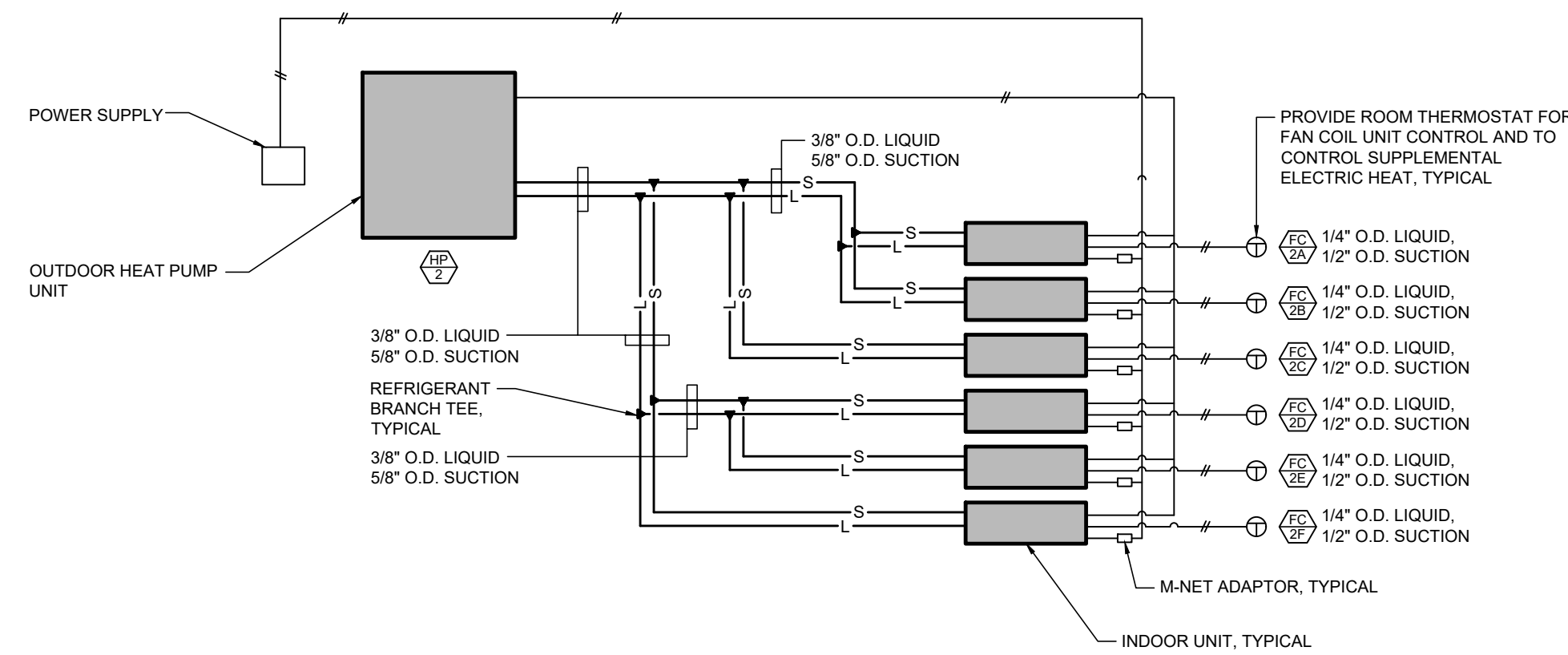
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MECHANICAL DETAILS

MK-3.3

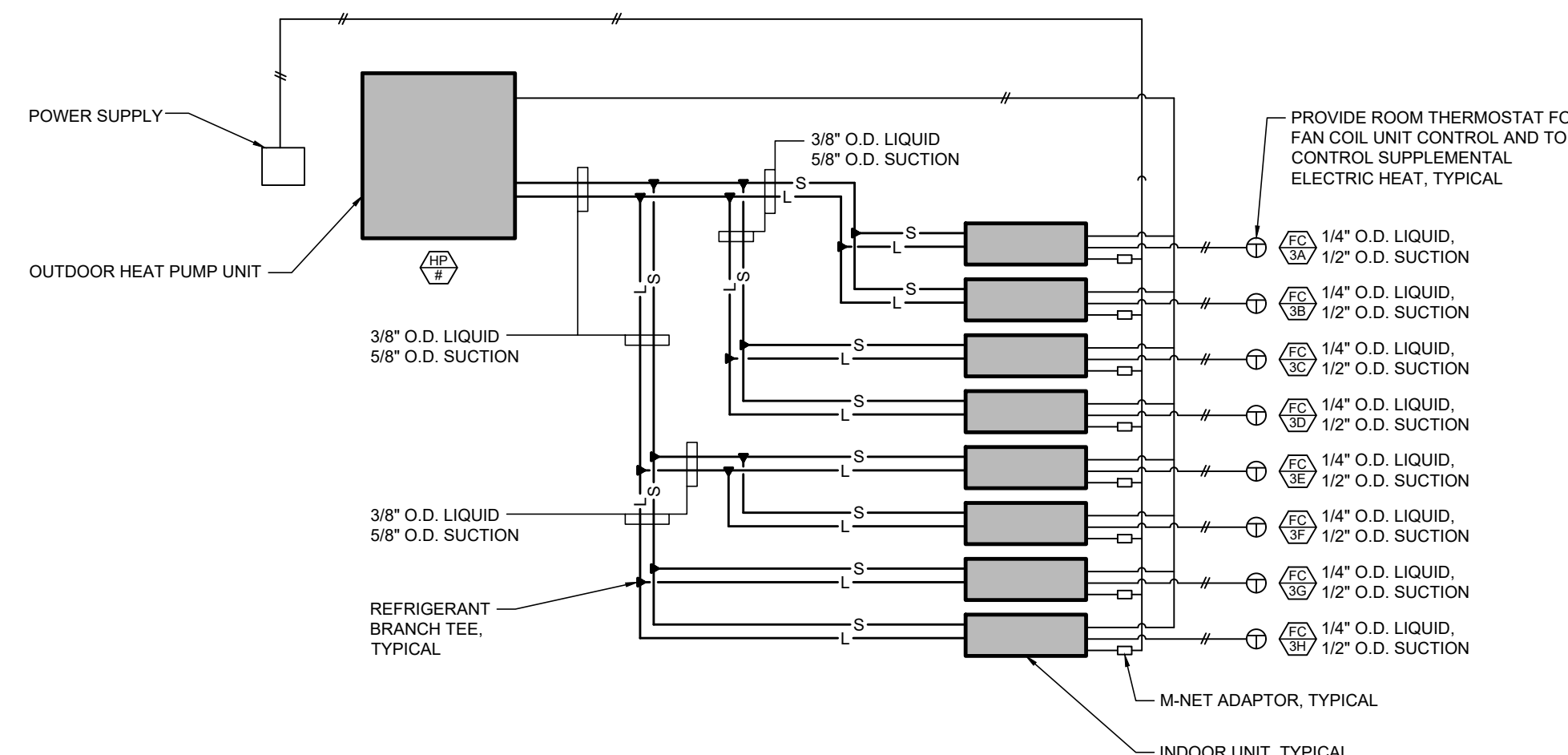
MECHANICAL LEGEND & ABBREVIATIONS

HPS	HEAT PUMP SUPPLY PIPING	FLEXIBLE DUCTWORK	SUPPLY DIFFUSER
HPR	HEAT PUMP RETURN PIPING	RETURN OR EXHAUST GRILLE	VOLUME DAMPER
C	NEW CONDENSATE DRAIN PIPING	AIR FLOW INDICATOR	NEW CONTROL WIRING
CTS	COOLING TOWER SUPPLY PIPING	BALL VALVE	A.F.F.
CTR	COOLING TOWER RETURN PIPING	CHECK VALVE	M.C.
BALL VALVE		BALANCING VALVE	P.C.
CHECK VALVE		2-WAY CONTROL VALVE	E.C.
BALANCING VALVE		PIPE RISER	G.C.
2-WAY CONTROL VALVE		PIPE DROP	SUPPLY DIFFUSER
PIPE RISER		PIPE CAP	RETURN GRILLE
PIPE DROP		BOTTOM PIPE CONNECTION	EXHAUST GRILLE
PIPE CAP		TOP PIPE CONNECTION	REFRIGERATION BRANCH BOX CONTROLLER
BOTTOM PIPE CONNECTION		PIPE UNION	WATER HEATER HEAT EXCHANGER
PIPE UNION		CLEANOUT	EXHAUST FAN
CLEANOUT		NEW DUCTWORK	LOUVER
NEW DUCTWORK		ACOUSTICALLY LINED DUCTWORK	GLYCOL INJECTION TANK
ACOUSTICALLY LINED DUCTWORK		EXISTING DUCTWORK	ELECTRIC WALL HEATER
EXISTING DUCTWORK		SUPPLY DUCT DOWN	FAN COIL UNIT
SUPPLY DUCT DOWN		SUPPLY DUCT UP	AIR SOURCE HEAT PUMP UNIT
SUPPLY DUCT UP		RETURN DUCT DOWN	DX DUCT COIL
RETURN DUCT DOWN		RETURN DUCT UP	ELECTRIC DUCT COIL
RETURN DUCT UP		SQUARE TO ROUND TRANSITION	DRAWING NOTE TAG
SQUARE TO ROUND TRANSITION		SQUARE ELBOW WITH TURNING VANES	ELECTRIC BASEBOARD RADIATION
SQUARE ELBOW WITH TURNING VANES		FLEXIBLE DUCT CONNECTOR	MOTORIZED DAMPER
FLEXIBLE DUCT CONNECTOR		HEAT RECOVERY UNIT	VOLUME DAMPER
HEAT RECOVERY UNIT		CEILING EXHAUST FAN	THERMOSTAT
CEILING EXHAUST FAN		FLOW SWITCH	FIRE DAMPER
FLOW SWITCH		TEMPERATURE GAUGE	



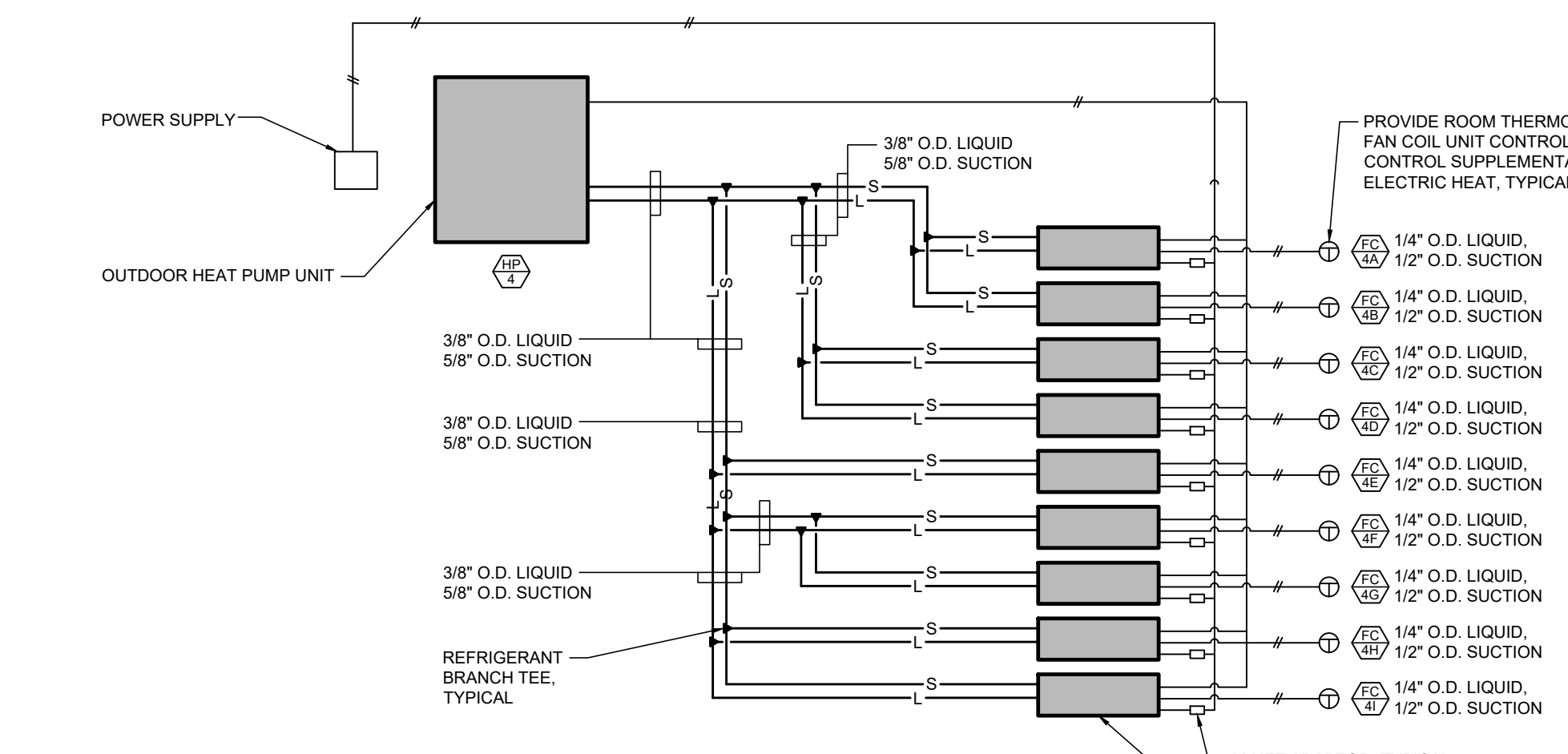
HP-2 SYSTEM SCHEMATIC

NOT TO SCALE



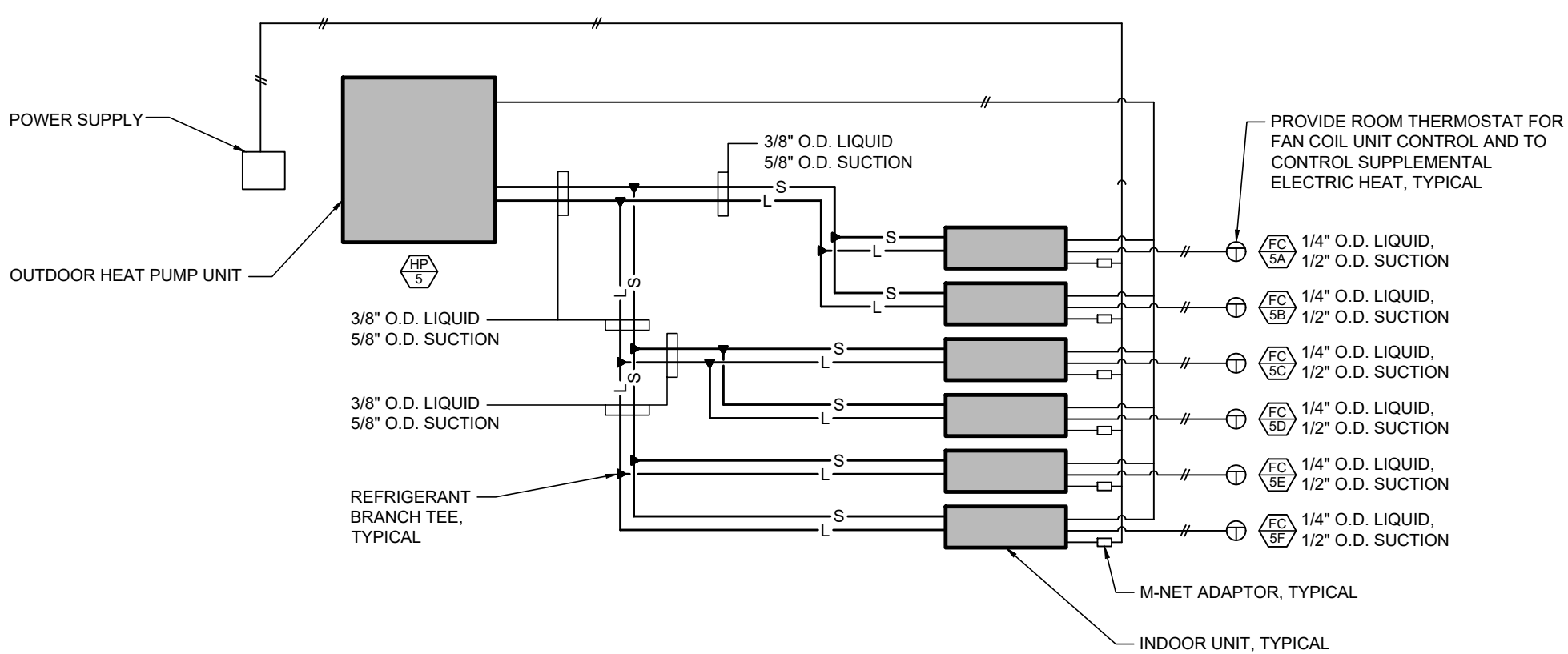
HP-3 SYSTEM SCHEMATIC

NOT TO SCALE



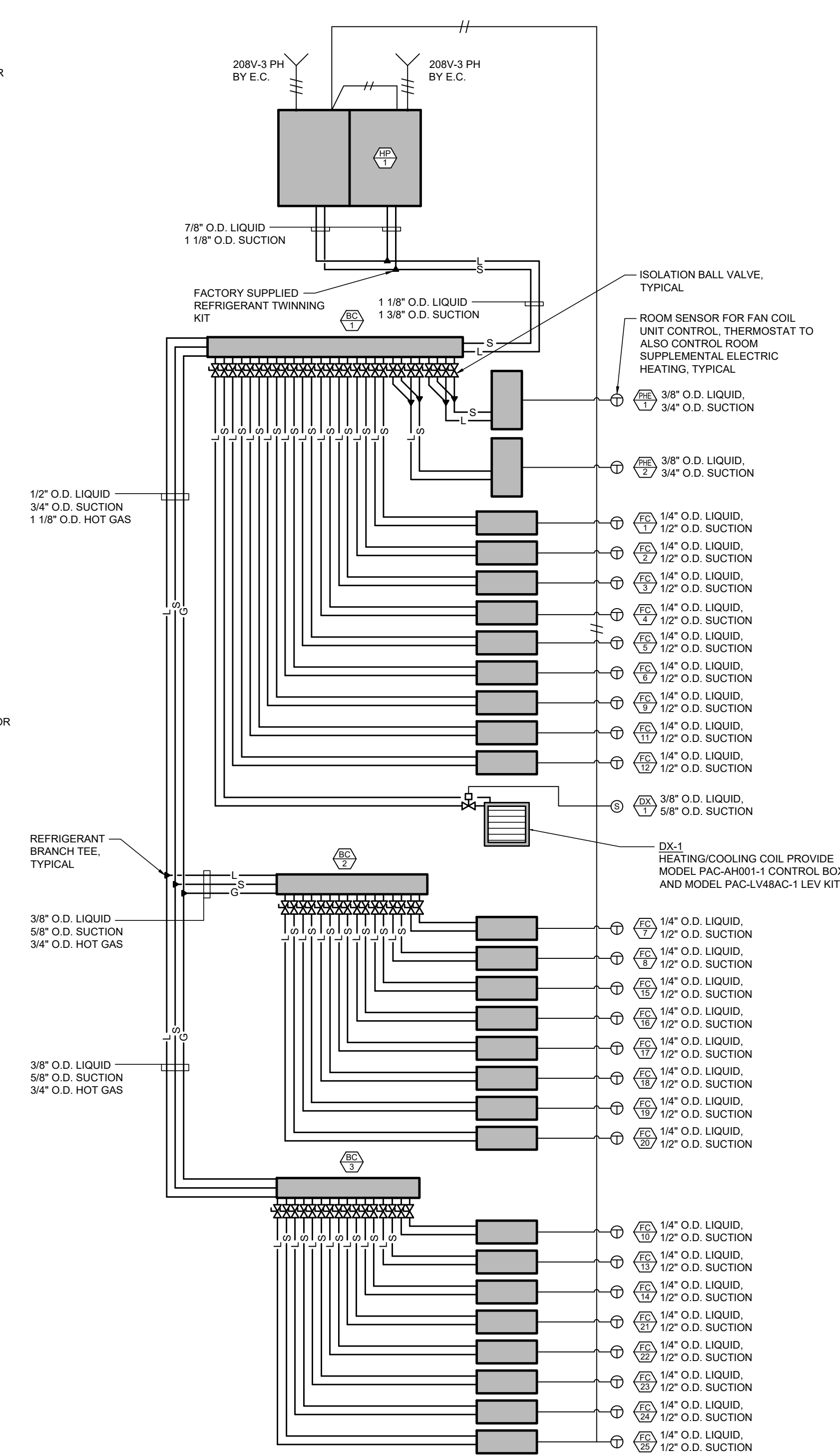
HP-4 SYSTEM SCHEMATIC

NOT TO SCALE



HP-5 SYSTEM SCHEMATIC

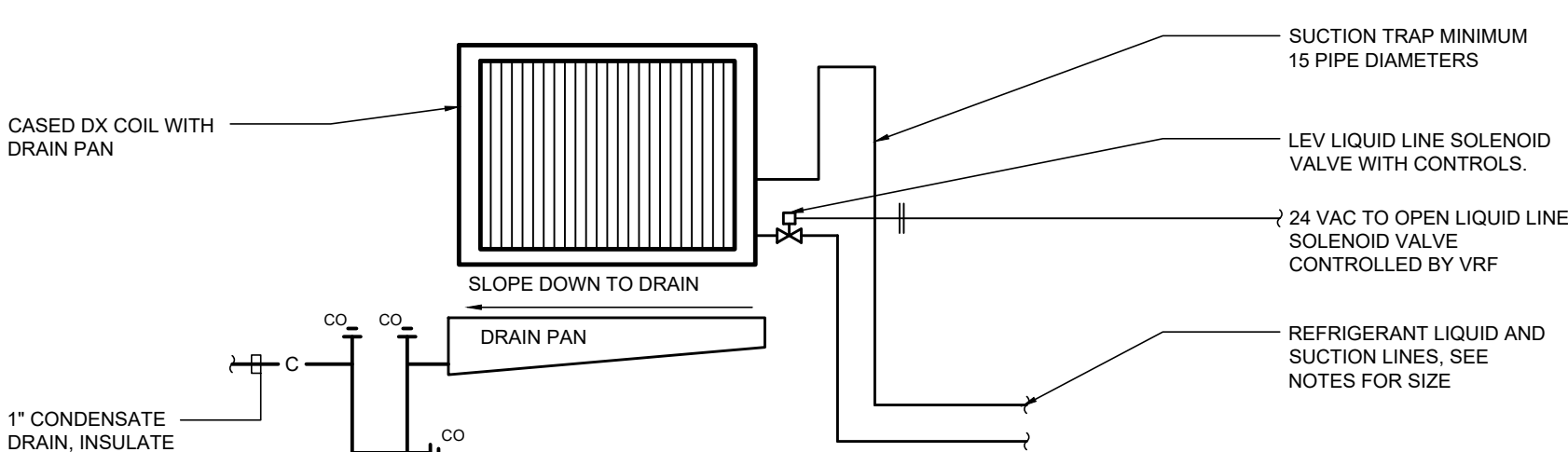
NOT TO SCALE



HP-1 SYSTEM SCHEMATIC DIAGRAM

NOT TO SCALE

- NOTES:**
1. ALL FINAL REFRIGERANT PIPE SIZING SHALL BE PROVIDED BY SUPPLIER.
 2. PROVIDE ALL REFRIGERANT LINES, REFRIGERANT PIPING FITTINGS, REFRIGERANT TWINNING HEADERS, INSULATION, AND ACCESSORIES AS RECOMMENDED BY THE SYSTEM MANUFACTURER FOR A COMPLETE OPERATIONAL SYSTEM.
 3. PROVIDE ALL CONTROL WIRING AND CONTROLS AS SPECIFIED OR REQUIRED BY THE MANUFACTURER FOR A COMPLETE OPERATIONAL SYSTEM.
 4. SLEEVE AND FIRE STOP ALL PIPE PENETRATION THROUGH WALLS FLOORS AND CEILINGS.
 5. FINAL START-UP, COMMISSIONING AND PROGRAMMING TO BE PROVIDED BY THE FACTORY. SUBMIT A COMPLETE START-UP REPORT.
 6. INSTALL PIPING TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION.



DX COIL REFRIGERANT PIPING DETAIL

NOT TO SCALE

HEAT RECOVERY UNIT SCHEDULE																PLAN SYMBOL	
REF. No.	MANUFACTURER/MODEL	MODEL	AREA SERVED	SUPPLY & EXHAUST SIDE (TYPICAL OF TWO)												REMARKS	
				CFM	MAX. FACE VEL. FPM	RPM	STATIC PRESS. IN. WG.		ECM MOTOR				EFFICIENCY WINTER		EFFICIENCY SUMMER		
							TOT.	EXT.	HP.	VOLTS	PHASE	HZ	SENS EFF (%)	TOTAL EFF (%)	SENS EFF (%)		TOTAL EFF (%)
HRU-1	RENEWAIRE	HE2XINH	NEW DORMITORY	1245	-	1347	-	1.35	(2) 2.0	208	3	60	74.5	73.3	74.5	57.9	SEE NOTES 1 & 3
HRU-2/ EHC-2	RENEWAIRE	EV200	FACULTY RESIDENCE B	150	-	1750	-	0.35	(1) 0.10	120	1	60	79.3	76.6	79.3	65.5	SEE NOTES 2 & 4
HRU-3/ EHC-3	RENEWAIRE	EV200	FACULTY RESIDENCE A	150	-	1750	-	0.55	(1) 0.10	120	1	60	79.6	76.6	79.3	65.5	SEE NOTE 2 & 4

NOTES:
1) UNIT TO BE FURNISHED WITH DOUBLE WALL CONSTRUCTION, FACTORY DISCONNECT, MOTORIZED DAMPERS ON INTAKE AND EXHAUST AIRSTREAMS, MERV13 FILTERS, FACTORY SUPPLIED CONTROLS, AND NEOPRENE ISOLATORS, VFD'S ON BOTH SUPPLY AND EXHAUST FANS WITH SHAFT GROUNDING RING, FACTORY DISCONNECT, AND FILTER ALARMS ON BOTH SUPPLY AND EXHAUST AIRSTREAMS.
2) UNIT TO BE FURNISHED WITH FACTORY SUPPLIED CONTROLS, MERV13 FILTERS, FACTORY DISCONNECT AND NEOPRENE ISOLATORS.
3) UNIT TO BE PROVIDED WITH IN-LINE CASED DX COIL, REFER TO SCHEDULE.
4) PROVIDE UNIT WITH EK SERIES RECTANGULAR DUCTED ELECTRIC HEATER WITH SCR CONTROLS WITH INTEGRAL THERMOSTAT AND DISCHARGE TEMPERATURE SENSOR. COIL SIZE SHALL BE 8"X8", 2KW HEATING ELEMENT, 12.02MCA, 15 MOCP, 208V, 1 PHASE, 60 HZ.

WATER HEATER HEAT PUMP SCHEDULE										PLAN SYMBOL
TAG	MANUFACTURER	MODEL	GPM	MCA (AMPS)	MAX FUSE	VOLTS	PH	CONTROLLER		
PHE-1	MITSUBISHI	PWFY-P72NMU-E2-AU	18.9	0.09	15	208	1	PAR-W2W21MAA		
PHE-2	MITSUBISHI	PWFY-P72NMU-E2-AU	18.9	0.09	15	208	1	PAR-W2W21MAA		

DIFFUSER-GRILLE-REGISTER-LOUVER SCHEDULE									S = SUPPLY R = RETURN	L = LOUVER E = EXHAUST	PLAN SYMBOL
No.	MANUFACTURER	SERIES	MODEL	SIZE	AIR PATTERN	DAMPER	FINISH	REMARKS			
L-1	RUSKIN	ELF-375DX	ELF-375DX	12"X12"	FIXED	-	BAKED ENAMEL	SEE NOTE 1			
L-2	RUSKIN	ELF-375DX	ELF-375DX	12"WX36"H	FIXED	-	BAKED ENAMEL	SEE NOTE 1			
L-3	RUSKIN	ELF-375DX	ELF-375DX	24"X24"	FIXED	-	BAKED ENAMEL	SEE NOTE 1			
L-4	RUSKIN	ELF-375DX	ELF-375DX	16"X16"	FIXED	-	BAKED ENAMEL	SEE NOTE 1			
S-1	METAL-AIRE	V4004	V4004	18"X8"	DBL DEFL.	-	W.E.				
S-2	METAL-AIRE	V4002	V4002	6"X6"	DBL DEFL.	-	W.E.				
S-3	METAL-AIRE	5000	5000-1	9"X9"	S2	-	W.E.	SR NECK			
S-4	METAL-AIRE	5000	5000-1	6X6"	S3	-	W.E.	SR NECK			
S-5	METAL-AIRE	5000	5000-1	9"X9"	S3	-	W.E.	SR NECK			
S-6	METAL-AIRE	V4002	V4002	12"X10"	DBL DEFL.	-	W.E.				
S-7	METAL-AIRE	5000	5000-1	12"X12"	S4	-	W.E.	SR NECK			
S-8	METAL-AIRE	2300	2300	12"X4"	15 DEG. DEFL.	-	W.E.	1" BORDER			
R-1	METAL-AIRE	RHF	RHF	18"X10"	FIXED	-	W.E.				
R-2	METAL-AIRE	2300	2300	12"X4"	0 DEG. DEFL.	-	W.E.	1" BORDER			
R-3	METAL-AIRE	RHF	RHF	34"X10"	FIXED	-	W.E.				
E-1	METAL-AIRE	RH	RH	6"X6"	FIXED	-	W.E.	SR NECK WHERE REQUIRED			
E-2	METAL-AIRE	RH	RH	8"X8"	FIXED	-	W.E.	SR NECK			
E-3	METAL-AIRE	RH	RH	12"X10"	FIXED	-	W.E.				

NOTES:
1) SUBMIT COLOR CHART FOR COLOR SELECTION BY ARCHITECT. PROVIDE GALVANIZED STEEL BIRDSCREEN.
2) 1/2" BOARD, 1/2 SQUARE STAMPED METAL, BLACK FINISH

ELECTRIC BASEBOARD RADIATION SCHEDULE									PLAN SYMBOL
TYPE	MANUFACTURER (OR APPROVED EQUAL)	SERIES	LENGTH	VOLTS	PHASE	WATTS/LF	BTUH/LF	REMARKS	
A	QMARK	QMCK	PER PLANS	208	1	250	853	SEE NOTES	

NOTES:
1) PROVIDE 24 VAC CONTROL RELAY FOR CONTROL BY VRF 24 VAC WALL THERMOSTAT CONTROL OR STANDALONE THERMOSTAT IN ROOMS INDICATED.
2) DO NOT INSTALL ELECTRICAL BASEBOARD BELOW ELECTRICAL RECEPTACLES, COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
3) SUBMIT COLOR CHART, COLOR TO BE SELECTED BY ARCHITECT.

EXHAUST FAN SCHEDULE										PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL NO.	CFM	E.S.P.	TYPE	RPM	MOTOR			REMARKS
							HP	VOLT	PHASE	
EF-1	PANASONIC	FC-1115VK2	110	0.1	CEILING	684	12.9 WATTS	120	1	SEE NOTE 1
EF-2	GREENHECK	CSP-A700-VG	500	1.0	INLINE	1538	188 WATTS	120	1	SEE NOTE 2

NOTES:
1) PROVIDE WALL MOUNTED 120 VAC COOLING CONTROL THERMOSTAT TO ENERGIZE FAN WHEN ROOM TEMPERATURE EXCEEDS SET POINT.
2) PROVIDE VARI-GREEN EC MOTOR WITH MOUNTED POTENTIOMETER DIAL RATER FOR CONTINUOUS USE.

CIRCULATOR PUMP SCHEDULE										PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL	MIN. FLOW (GPM)	HEAD (FT. HD.)	MOTOR				REMARKS	
					HP	VOLT	PHASE	RPM		
P-1	GRUNDFOS	MAGNA1 40-180F	15	55	0.614	208	1	3500		
P-2	GRUNDFOS	MAGNA1 40-180F	15	55	0.614	208	1	3500		

NOTES:
1) SELECT PUMPS FOR 40% PROPYLENE GLYCOL.
2) PUMPS TO INCLUDE FACTORY SUPPLIED VFD.

ELECTRIC WALL HEATER SCHEDULE										PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL	SIZE	WATTS	BTUH	ECM MOTOR			REMARKS	
						AMPS	VOLT	PH		
EW-1 THROUGH EW-9	QMARK	AWH	AWH4408F	2000	6824	9.6	208	1	SEE NOTES	
EW-10 THROUGH EW-15	QMARK	AWH	AWH4408F	1500	5118	12.5	120	1	SEE NOTES	

NOTES:
1) PROVIDE LOW VOLTAGE RELAYS FOR CONTROL BY LOW VOLTAGE THERMOSTAT. SUBMIT COLOR CHART, ARCHITECT TO SELECT FINISH COLOR.



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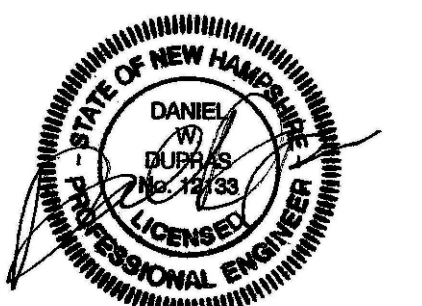
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Main Street
Meriden, NH 03770

MECHANICAL
SCHEDULES

MK-4.1

OUTDOOR AIR SOURCE HEAT PUMP UNIT SCHEDULE											PLAN SYMBOL		
REF. No.	MANUFACTURER/ MODEL	NOMINAL CAPACITY (TONS)	SUMMER AMBIENT TEMP. (°F)	COOLING CAPACITY (BTUH)	WINTER AMBIENT TEMP. (°F)	HEATING CAPACITY (BTUH)	REFRIG. TYPE	ELECTRICAL DATA					REMARKS
								MAX FUSE	MCA AMPS	VOLTS	PHASE	HZ	
HP-1	mitsubishiPURY-EP288TSNU-A	24	90	288,000	-13	323,000	R-410A	60/60	49.0/45.0	208/230	3	60	SEE NOTE 1
HP-2	mitsubishiMXZ-SM36NAMHZ-U1	3.0	90	36,000	-13	42,000	R-410A	40	36	208/230	1	60	SEE NOTE 2
HP-3	mitsubishiMXZ-SM42NAMHZ-U1	3.5	90	42,000	-13	48,000	R-410A	40	36	208/230	1	60	SEE NOTE 1
HP-4	mitsubishiMXZ-SM42NAMHZ-U1	3.5	90	42,000	-13	48,000	R-410A	40	36	208/230	1	60	SEE NOTE 1
HP-5	mitsubishiMXZ-SM42NAMHZ-U1	3.5	90	42,000	-13	48,000	R-410A	40	36	208/230	1	60	SEE NOTE 1

NOTES:
 1) PROVIDE BASE MOUNTED SUPPORT SLING MOUNTED 18" ABOVE FINISHED GRADE MINIMUM, WITH 1/8" THICK NEOPRENE ISOLATORS.
 2) PROVIDE WALL MOUNTED EQUIPMENT SUPPORT SLING WITH NEOPRENE VIBRATION ISOLATORS.

HEAT PUMP FAN COIL UNIT SCHEDULE											PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL NO.	TOTAL COOLING MBH	TOTAL HEAT MBH	CFM	SOUND dBA	MCA AMPS	VOLTS	PHASE	REMARKS	
NEW DORMS - HEAT PUMP SYSTEM 1											
FC-1	mitsubishi	PEFY-P18NMAU-E4	18.0	20.0	600	37	2.94	208/230	1	SEE NOTES 1	
FC-2	mitsubishi	PLFY-P08NFMU-E	8.0	9.0	390	31	0.3	208/230	1	SEE NOTES 1	
FC-3	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.20	208/230	1	SEE NOTES 1	
FC-4	mitsubishi	PLFY-P08NFMU-E	8.0	9.0	390	31	0.3	208/230	1	SEE NOTES 1	
FC-5	mitsubishi	PLFY-P08NFMU-E	8.0	9.0	390	31	0.3	208/230	1	SEE NOTES 1	
FC-6	mitsubishi	PEFY-P08NFMU-E	8.0	9.0	212	24	1.75	208/230	1	SEE NOTES 1	
FC-7	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-8	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-9	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.20	208/230	1	SEE NOTES 1	
FC-10	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.20	208/230	1	SEE NOTES 1	
FC-11	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-12	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-13	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-14	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-15	mitsubishi	PEFY-P18NMAU-E4	18.0	20.0	600	37	2.94	208/230	1	SEE NOTES 1	
FC-16	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-17	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-18	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-19	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-20	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-21	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-22	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-23	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-24	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1	
FC-25	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.20	208/230	1	SEE NOTES 1	
FACULTY RESIDENCE B - HEAT PUMP SYSTEM 2											
FC-2A	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.20	208/230	1	SEE NOTES 1	
FC-2B	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-2C	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.20	208/230	1	SEE NOTES 1	
FC-2D	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-2E	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-2F	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FACULTY RESIDENCE A - HEAT PUMP SYSTEM 3											
FC-3A	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-3B	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-3C	mitsubishi	PKFY-P12NLMU-E	12.0	13.5	244	37	0.20	208/230	1	SEE NOTES 1	
FC-3D	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-3E	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-3F	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-3G	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-3H	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
EXISTING DORM - HEAT PUMP SYSTEM 4											
FC-4A	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-4B	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-4C	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.20	208/230	1	SEE NOTES 1	
FC-4D	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-4E	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-4F	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-4G	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-4H	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-4I	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
EXISTING FACULTY RESIDENCE											
FC-5A	mitsubishi	PKFY-P12NLMU-E	12.0	13.5	244	37	0.20	208/230	1	SEE NOTES 1	
FC-5B	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.20	208/230	1	SEE NOTES 1	
FC-5C	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-5D	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	
FC-5E	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.20	208/230	1	SEE NOTES 1	
FC-5F	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1	

NOTES:
 1) PROVIDE WITH FACTORY SUPPLIED CONDENSATE PUMP, SPARE FILTER, CONDENSATE OVERFLOW PROTECTION SWITCH AND CONTROLS AS SPECIFIED.

DX COIL SCHEDULE											PLAN SYMBOL
REF. No.	MANUFACTURER MODEL	ROWS	SIZE		E.A.T. (°F)		L.A.T. (°F)		CFM	A.P.D (IN. WC)	REMARKS
			LENGTH	WIDTH	DB	WB	DB	WB			
DX-1	HEATCRAFT	2	20	12	90	72	69.3	62.4	1010	0.252	SEE NOTE 1

NOTES:
 1) PROVIDE STAINLESS STEEL DRAIN PAN, INSULATED COIL HOUSING

BRANCH BOX CONTROLLER											PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL	NUMBERS OF PORTS	CONNECTED CAPACITY MBH	ELECTRICAL				REMARKS		
					MCA	COOLING KW	HEATING KW	VOLTS/PH			
BC-1	mitsubishi	CMB-P1018NU-JA1-BV	16	-	1.6	-	-	208/1	SEE NOTE 1		
BC-2	mitsubishi	CMB-P108MU-KB1-BV	8	-	0.4	-	-	208/1	SEE NOTE 1		
BC-3	mitsubishi	CMB-P108MU-KB1-BV	8	-	0.4	-	-	208/1	SEE NOTE 1		

NOTES:
 1) FURNISH WITH FACTORY PRE-INSTALLED ISOLATION BALL VALVES, BV SERIES, R-410A RATED, AND DRAIN PAN.



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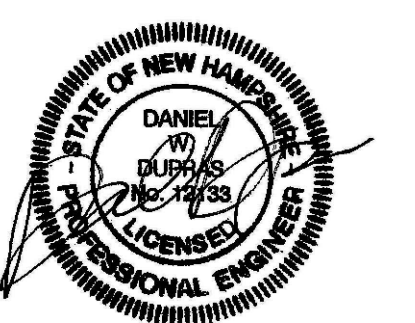
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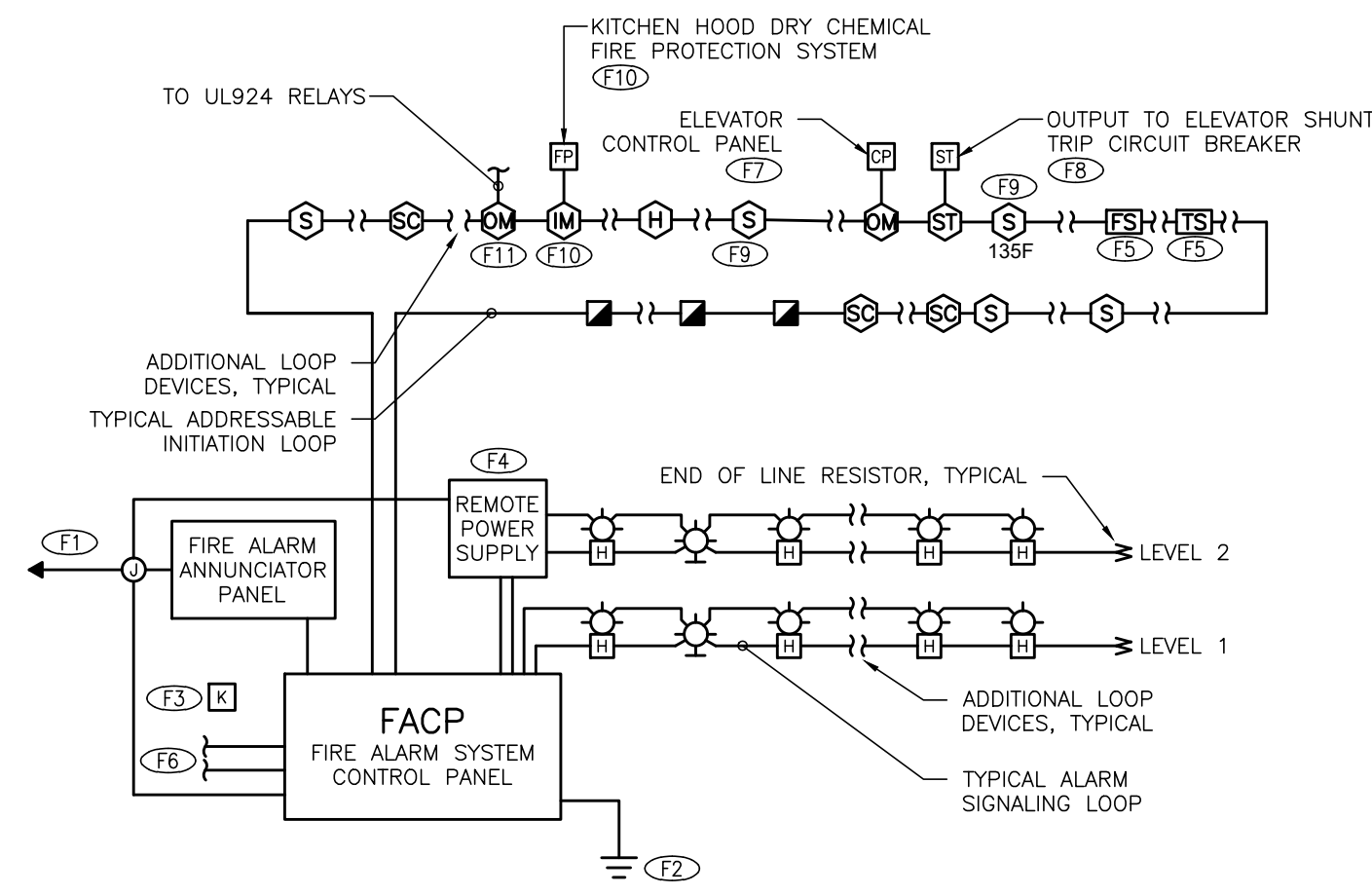
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**MECHANICAL
 SCHEDULES**

MK-4.2



FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE

FIRE RISER GENERAL NOTES:

- COORDINATE FIRE ALARM SYSTEM DESIGN AND INSTALLATION WITH THE MUNICIPAL FIRE DEPARTMENT; SUBMIT SUBMITAL DOCUMENTATION FOR THEIR REVIEW PRIOR TO ANY INSTALLATION.
- FIRE ALARM SYSTEM SHALL MEET ALL VERMONT STATE CODE REQUIREMENTS. DEVICE INSTALLATION HEIGHTS AND SIGNAL COVERAGE SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
- LOCATE FIRE ALARM EQUIPMENT AND DEVICES, GENERALLY, AS FOLLOWS:
 - MANUAL PULLSTATIONS: 48" AFF
 - VISUAL SIGNALS (STROBES): 84" AFF
 - REMOTE TEST STATIONS: 54" AFF
 - FIRE ALARM PANEL: 72" AFF TO TOP
 - REFER TO SPECIFICATIONS FOR ADDITIONAL RELATED INFORMATION.
- INSTALLED FIRE ALARM SYSTEM SHALL BE ACCEPTANCE TESTED AS PER THE REQUIREMENTS OF NFPA 72, "INSPECTIONS, TESTING AND MAINTENANCE". INCLUDE THE COMPLETED "INSPECTION AND TESTING FORM" WITH THE OPERATION AND MAINTENANCE MANUALS THAT ARE ULTIMATELY PRESENTED TO THE OWNER.
- PROVIDE FIRE ALARM SYSTEM INITIATION AND SIGNALING LOOP WIRING USING UL LISTED FIRE ALARM CABLE. SIZE CABLES APPROPRIATE FOR LOAD AND VOLTAGE DROP OF WIRING LOOPS. CABLING SHALL BE RUN WITHOUT RACEWAY WHERE CONCEALED IN WALLS OR ABOVE CEILINGS OR WHERE RUN IN EXPOSED ROOF STRUCTURE. PROVIDE RACEWAY WHERE RUN EXPOSED VERTICALLY ON WALLS OF SERVICE LEVEL TO MATCH RACEWAY UTILIZED FOR POWER WIRING.
- PROVIDE RED BOXES/COVERS FOR FIRE ALARM SYSTEM.
- DORMITORY ROOMS: UPON A SMOKE DETECTOR LOCATED IN A DORM ROOM SENSING SMOKE, THE SIGNALING DEVICE IN THAT ROOM SHALL OPERATE (ONLY THAT DEVICE SHALL ALARM) AND CAUSE A TROUBLE SIGNAL AT THE FIRE ALARM SYSTEM. THE DORMITORY SMOKE DETECTORS SHALL OPERATE IN THE SAME/SIMILAR FASHION AS A SINGLE STATION DETECTOR EVEN THOUGH IT IS A SYSTEM DETECTOR.
- FACULTY RESIDENCES: UPON A SMOKE OR SMOKE/CO DETECTOR LOCATED IN A FACULTY RESIDENCE SENSING SMOKE OR CO, ALL SIGNALING DEVICES IN THAT RESIDENCE SHALL OPERATE AND CAUSE A TROUBLE SIGNAL AT THE BUILDING FIRE ALARM SYSTEM. THE FACULTY RESIDENCE SMOKE AND SMOKE/CO DETECTORS SHALL OPERATE IN THE SAME/SIMILAR FASHION AS MULTIPLE STATION DETECTORS EVEN THOUGH THEY ARE SYSTEM DETECTORS.

FIRE RISER DRAWING NOTES:

- PROVIDE A 20A1P, 120VAC CIRCUIT TO THIS EQUIPMENT. PROVIDE A LOCK-ON CLIP FOR THE CIRCUIT BREAKER.
- PROVIDE #4 AWG GROUND WIRE TO AN ELECTRICAL SYSTEM GROUNDING ELECTRODE.
- PROVIDE A REMOTE POWER SUPPLIES (NAC, SNAC, ETC.) AS NECESSARY TO SUPPORT POWERING OF ALARM SIGNALS THROUGHOUT THE FACILITY. THE REMOTE POWER SUPPLY IS NOT INDICATED ON PLANS; LOCATE IN A NON-PUBLIC SPACE AND INDICATE LOCATION ON SHOP DRAWINGS. PROVIDE SMOKE DETECTOR ABOVE WHERE PANEL IS LOCATED.
- COORDINATE THE FINAL LOCATION AND QUANTITY OF SPRINKLER SYSTEM FLOW SWITCHES, TAMPER SWITCHES, ETC. WITH THE FINAL FIRE ALARM AND SPRINKLER SHOP DRAWINGS PRIOR TO INSTALLATION. COORDINATE CONNECTIONS WITH SPRINKLER SYSTEM CONTRACTOR.
- PROVIDE CONNECTION TO TWO TELEPHONE LINES FOR PROPER OPERATION OF FIRE ALARM PANEL DIGITAL DIALER AS PRIMARY COMMUNICATION FOR TRANSMITTING OF ALARM CONDITIONS OFF-SITE TO EITHER CENTRALLY MANNED STATION OR TO THE MUNICIPAL FIRE DEPARTMENT.
- PROVIDE OUTPUT MODULES TO SEND SIGNAL TO ELEVATOR TO INITIATE RECALL UPON ALARM SIGNAL FROM HEAT OR SMOKE DETECTORS IN ELEVATOR MACHINE ROOM, SHAFT OR ELEVATOR LOBBIES.
- PROVIDE OUTPUT MODULES TO SEND SIGNAL TO ELEVATOR SHUNT TRIP CIRCUIT BREAKER TO OPEN UPON SIGNAL FROM 135F FIXED TEMPERATURE HEAT DETECTOR AT TOP OF SHAFT.
- COMBINATION SMOKE DETECTOR WITH 135F FIXED TEMPERATURE HEAT DETECTOR AT THE TOP OF SHAFT.
- PROVIDE INPUT MODULE TO MONITOR KITCHEN HOOD FIRE PROTECTION SYSTEM AND SEND SIGNAL FOR ALARM TO THE FIRE ALARM SYSTEM UPON SENSING FIRE AND RELEASING CHEMICAL AGENT.
- PROVIDE OUTPUT MODULES AS NECESSARY FOR SIGNAL TO UL924 RELAYS TO BRING EMERGENCY LIGHTING TO FULL OUTPUT UPON FIRE ALARM GOING INTO ALARM.

ELECTRICAL LEGEND:

	SEE LUMINAIRE SCHEDULE FOR LUMINAIRE TYPES
	OCCUPANCY SENSOR LIGHTING CONTROL DEVICE; REFER TO SCHEDULE
	DAYLIGHT SENSOR
	MANUAL SINGLE POLE LIGHTING SWITCH; 3 = 3 WAY, OC = OCCUPANCY SENSOR, FIR = PASSIVE INFRARED, DT = DUAL TECHNOLOGY; D = DIMMING, LV = LOW VOLTAGE, P = SWITCH WITH PILOT, K = KEYED SWITCH
	PHOTOELECTRIC CONTROL SENSOR
	TIMECLOCK CONTROLLER
	ELECTRICAL PANELBOARD
	ELECTRIC METER
	HOMERUN TO PANEL INDICATED
	BRANCH CIRCUIT OR FEEDER WIRING
	UNDERGROUND WIRING
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET WITH 2 USB PORTS
	DOUBLE-DUPLEX (QUAD) RECEPTACLE OUTLET
	GROUND FAULT PROTECTION RECEPTACLE OUTLET
	SPECIAL OUTLET (AS NOTED ON PLANS)
	RANGE HOOD CONNECTION
	JUNCTION BOX
	CONTROL RELAY
	LINE VOLTAGE THERMOSTAT, 'C' INDICATES COOLING
	MOTOR SWITCH
	SAFETY/DISCONNECT SWITCH; PROVIDE RATINGS AND FUSES AS PER SCHEDULES
	MAGNETIC MOTOR STARTER, FULL VOLTAGE, NON-REVERSING
	EQUIPMENT CONTROL PACKAGE; FURNISHED INTEGRAL TO THE EQUIPMENT
	MOTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE FIGHTERS KEYBOX
	FIRE ALARM SYSTEM MANUAL PULLSTATION
	SPRINKLER SYSTEM FLOW SWITCH
	SPRINKLER SYSTEM TAMPER SWITCH
	SPRINKLER SYSTEM PRESSURE SWITCH
	FIRE ALARM SYSTEM INPUT MODULE
	FIRE ALARM SYSTEM OUTPUT MODULE
	PHOTOELECTRIC SMOKE DETECTOR; SB = SOUNDER BASE, LF = LOW FREQUENCY, SS = SINGLE STATION (NON-SYSTEM)
	SMOKE/CARBON MONOXIDE COMBO DETECTOR; SB = SOUNDER BASE, LF = LOW FREQUENCY, SS = SINGLE STATION (NON-SYSTEM)
	FIRE ALARM SYSTEM HORN/STROBE WITH CANDELA RATING INDICATED
	FIRE ALARM SYSTEM STROBE VISUAL SIGNAL WITH CANDELA RATING INDICATED
	FIRE ALARM STROBE VISUAL SIGNAL, CEILING MOUNTED, SS = SINGLE STATION (NON-SYSTEM)
	DATA (LAN) DEVICE OUTLET, NUMBER INDICATES NUMBER OF CABLES; TV1D = ONE VOICE, ONE DATA JACK/CABLE
	CATV (CABLE TELEVISION) DEVICE OUTLET
	CEILING MOUNTED DATA (LAN) WIRELESS ACCESS POINT, NUMBER INDICATES NUMBER OF CABLES
	ELEVATOR COMMUNICATIONS MASTER ANNUNCIATOR CONTROL PANEL
	ELEVATOR COMMUNICATIONS CALL STATION
	SECURITY CAMERA LOCATION, CEILING MOUNTED, UON
	ACCESS CONTROL SYSTEM CARD READER
	MONITOR POINT ACCESS POINT

ELECTRICAL ABBREVIATIONS:

OHE	OVERHEAD ELECTRICAL LINES
AFF, AFG, AFR	ABOVE FINISH FLOOR, GRADE, ROOF
NL	NIGHT LIGHTING LUMINAIRE, CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT
WP	WEATHERPROOF WITH COVER "CLOSED" FOR RECEPTACLES; NEMA 3R FOR ENCLOSURES
WL	WET LOCATION WITH COVER "OPEN" FOR RECEPTACLES; NEMA 4 FOR ENCLOSURES
AC	ABOVE COUNTER
CM	CEILING MOUNTED
WM	WALL MOUNTED
TYP	TYPICAL
NTS	NOT TO SCALE
UON	UNLESS OTHERWISE NOTED
(X)	EXISTING, TO REMAIN
(RX)	REMOVE EXISTING
(RR)	REMOVE, RELOCATE
(R)	RELOCATED
(N)	NEW
(F)	FUTURE
	MECHANICAL EQUIPMENT CONNECTION
	BUILDING EQUIPMENT CONNECTION

GENERAL NOTES:

THESE GENERAL NOTES APPLY TO ALL ELECTRICAL PLAN DRAWINGS.

- FOLLOW ALL APPLICABLE CODES AND USE GOOD ELECTRICAL CONSTRUCTION PRACTICES WHEN DETERMINING TYPES OF WIRING METHODS AND SIZING OF CONDUCTORS AND CONDUIT. INSTALL ALL POWER, CONTROL AND SIGNAL WIRING USING METHODS AS FOLLOWS:
 - UNDERGROUND ELECTRIC SERVICE WIRING: INDIVIDUAL CONDUCTORS IN GALVANIZED STEEL RIGID METALLIC CONDUIT (RMC) AS PER THE REQUIREMENTS OF LIBERTY UTILITIES.
 - UNDERGROUND WIRING OR BENEATH CONCRETE SLAB (NOT ELECTRICAL SERVICE WIRING): INDIVIDUAL CONDUCTORS IN SCHEDULE 40 PVC RIGID NON-METALLIC CONDUIT (RNC) FOR DIRECT BURIAL; TRANSITION TO GALVANIZED STEEL RIGID METALLIC CONDUIT (RMC) WHERE CONDUIT RISES TO BE EXPOSED ABOVE GRADE OR CONCRETE SLAB, FROM A MINIMUM OF 24" BELOW FINISHED GRADE.
 - UNDERGROUND WIRING OR BENEATH ROAD WAY OR PARKING AREA: INDIVIDUAL CONDUCTORS IN SCHEDULE 80 PVC RIGID NON-METALLIC CONDUIT (RNC) FOR DIRECT BURIAL; TRANSITION TO GALVANIZED STEEL RIGID METALLIC CONDUIT (RMC) WHERE CONDUIT RISES TO BE EXPOSED ABOVE GRADE OR CONCRETE SLAB, FROM A MINIMUM OF 24" BELOW FINISHED GRADE.
 - EXPOSED, EXTERIOR LOCATIONS: INDIVIDUAL CONDUCTORS IN GALVANIZED STEEL, RIGID METALLIC CONDUIT (RMC) WITH CONNECTIONS TO MOTORIZED (VIBRATING) EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC), MAXIMUM 6' LENGTH
 - WIRING CONCEALED IN INACCESSIBLE WALLS AND CEILINGS: MULTI-CONDUCTOR TYPE NM (NON-METALLIC SHEATHED) AND TYPE SE (SERVICE ENTRANCE) CABLE.
 - CONCEALED WIRING ABOVE ACCESSIBLE CEILINGS: MULTI-CONDUCTOR TYPE NM (NON-METALLIC SHEATHED) AND TYPE SE (SERVICE ENTRANCE) CABLE.
 - EXPOSED BRANCH CIRCUITS (MECHANICAL ROOM, UTILITY SPACES): INDIVIDUAL CONDUCTORS IN ELECTRICAL METALLIC TUBING (EMT) WITH SET SCREW FITTINGS; FINAL CONNECTIONS TO MOTORIZED (VIBRATING) EQUIPMENT SHALL BE FLEXIBLE METALLIC CONDUIT (FMC), MAXIMUM 6' LENGTH
 - CONTRACTOR SHALL CONSULT WITH ENGINEER REGARDING QUESTIONS REGARDING WIRING METHODS PRIOR TO ROUGH-IN OF WIRING
 - MINIMUM CONDUCTOR SIZE SHALL BE 12 AWG. PROVIDE AN INSULATED GROUND CONDUCTOR WITHIN ALL CABLES AND RACEWAYS. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE NOTED.
 - CIRCUITS SHALL BE 20A1P, (2)12, 1(1)20 1/2". OR CABLE, UNLESS INDICATED OTHERWISE.
 - ALL WIRING SHALL BE ROUTED CONCEALED AND DEVICES SHALL BE FLUSH/RECESSED MOUNTED TO THE GREATEST EXTENT POSSIBLE. WIRING IN THE UTILITY SPACES SHALL BE PERMITTED TO BE EXPOSED WHERE NO WALL FINISH EXISTS. WIRING ROUTED EXPOSED ON VERTICAL SURFACES SHALL BE ROUTED VERTICALLY; HORIZONTAL WIRING SHALL BE ROUTED AT THE CEILING LEVEL OF THESE SPACES, NOT ON THE WALLS.
 - MOUNT LIGHTING CONTROL SWITCHES 48" ABOVE FINISHED FLOOR, WITHIN 6" OF THE LATCH SIDE OF THE DOOR, UNLESS OTHERWISE INDICATED. "AC" INDICATES MOUNTING 8" ABOVE COUNTER BACK SPLASH, APPROXIMATELY 44" ABOVE FINISHED FLOOR.
 - EXIT SIGN LUMINAIRES SHALL BE CONNECTED TO THE LIFE SAFETY LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR AUTOMATIC CONTROLS.
 - ALL LIGHTING LAYOUTS SHALL BE COORDINATED WITH ARCHITECT'S REFLECTED CEILING PLANS AND EXACT LOCATION OF LUMINAIRES SHALL BE CHECKED AT CONSTRUCTION TIME AND PRIOR TO INSTALLATION WITH OTHER TRADES' LATEST DRAWINGS AND EQUIPMENT LAYOUTS. COORDINATE LUMINAIRE TRIMS AND MOUNTING WITH CEILING CONSTRUCTION. FINAL LOCATION OF LUMINAIRES SHALL BE REASONABLY CONDUCTIVE TO ACCESS BY THE OWNER FOR ROUTINE MAINTENANCE.
 - MOUNT RECEPTACLE DEVICES 18" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. MOUNT RECEPTACLE DEVICES SUCH THAT THEY ARE ORIENTED SO THE GROUND IS IN THE "UP" POSITION. "AC" INDICATES MOUNTING 8" OVER COUNTER BACK SPLASH, APPROXIMATELY 44" ABOVE FINISHED FLOOR.
 - ALL RECEPTACLES SHALL BE TAMPER PROOF STYLE.
 - ENSURE RECEPTACLE PLACEMENT MEETS ALL DWELLING UNIT CODE REQUIREMENTS, INCLUDING MAXIMUM 12" ON CENTER SPACING.
 - RECEPTACLE (GENERALLY DEVICES) PLACEMENT ON WALLS COMMON BETWEEN DORM ROOMS SHALL BE LOCATED IN SEPARATE WALL CAVITY FROM THE NEIGHBORING ROOM.
 - DO NOT LOCATE ANY RECEPTACLES ABOVE ELECTRIC BASEBOARD HEAT.
 - PROVIDE MEMBRANE PROTECTION FOR ALL DEVICE BOXES PENETRATING FIRE RATED WALLS
 - BASIS OF DESIGN PRODUCT IS 3M FIRE BARRIER MOLDABLE PUTTY PADS MFP4. PROVIDE A SUBMITTAL PRODUCT INFORMATION FOR REVIEW AND APPROVAL.
 - AIR AND VAPOR TIGHT BOXES SHALL BE USED AT EXTERIOR WALLS AND CEILINGS, BELOW ATTIC SPACES, AND ADJACENT TO UNCONDITIONED SPACES. THIS INCLUDES ALL ELECTRICAL BOXES, CABLE BOXES, FIRE SAFETY SYSTEM BOXES, ETC.
 - SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS TO MAINTAIN A MINIMUM 3'-0" SEPARATION FROM ANY HVAC DIFFUSER OR PADDLE FAN.
 - WHERE MECHANICAL EQUIPMENT IS INDICATED ON PLAN WITHOUT LOCAL DISCONNECT, EITHER IT IS FURNISHED WITH THE EQUIPMENT OR IS INDICATED IN THE EQUIPMENT WIRING DIAGRAM, AND EQUIPMENT SCHEDULE. REFER TO MECHANICAL EQUIPMENT SCHEDULE AND WIRING DIAGRAMS FOR CONNECTIONS TO CONTROL DEVICES.

ELECTRICAL ALTERNATES

REFER TO SPECIFICATION SECTION 26 0010, ELECTRICAL GENERAL PROVISIONS, FOR ALTERNATES THAT AFFECT THE ELECTRICAL WORK INDICATED ON THESE DOCUMENTS.



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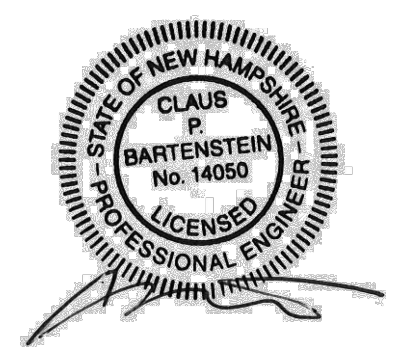
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**ELECTRICAL
NOTES, LEGEND,
DETAILS**

E1

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

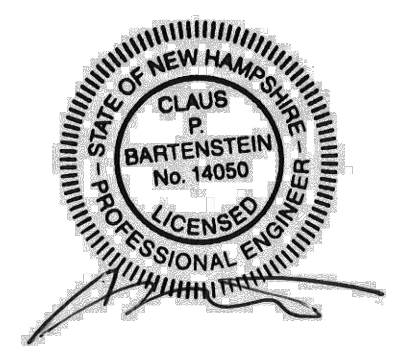
- REFER TO THE LIBERTY UTILITIES (LU) SPECIFICATIONS FOR ELECTRICAL INSTALLATIONS, 2018 (ELECTRICAL SERVICE BULLETIN No. 750, JANUARY 2019) AS WELL AS THE UNDERGROUND COMMERCIAL DISTRIBUTION (UCD) INSTALLATION AND RESPONSIBILITY GUIDE (ELECTRICAL SERVICE BULLETIN 759B OCTOBER 2018)
 - REFER TO THESE DOCUMENTS FOR MATERIALS REQUIREMENTS, DIRECTION FROM THE ELECTRIC POWER UTILITY AND STANDARD INSTALLATION DETAILS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - CONCRETE PAD FOR TRANSFORMER, CLEARANCES, CONSTRUCTION AND GROUNDING
 - SECONDARY SERVICE DUCTBANK ARRANGEMENT, SPACING AND CLEARANCES
 - CONCRETE ENCASMENT REQUIREMENTS
 - BOLLARD REQUIREMENTS
 - METERING REQUIREMENTS
 - ELECTRIC SERVICE INSTALLATION RESPONSIBILITIES:**
 - THIS DESCRIPTION OF RESPONSIBILITIES IS TENTATIVE, FOR DESIGN PURPOSES. ACTUAL ASSIGNMENT OF RESPONSIBILITIES WILL BE BY THE CONSTRUCTION MANAGER. VERIFY RESPONSIBILITIES PRIOR TO BIDDING.
 - LIBERTY UTILITIES RESPONSIBILITIES:
 - UNDERGROUND 3 PHASE LINE EXTENSION CABLING INTO THE SITE, TO THE TRANSFORMER
 - PROVIDING THE PAD MOUNT TRANSFORMER
 - FINAL PRIMARY WIRING CONNECTIONS TO THE PAD MOUNT TRANSFORMER
 - FINAL SECONDARY WIRING CONNECTIONS TO THE PAD MOUNT TRANSFORMER
 - SUPPLYING AND INSTALLATION OF CURRENT TRANSFORMERS AND ASSOCIATED WIRING
 - SUPPLYING THE METER SOCKET TO THE CONTRACTOR
 - INSPECTION OF ALL CONTRACTOR INSTALLED ELECTRIC SERVICE MATERIALS AND METHODS
 - COORDINATE METERING REQUIREMENTS WITH CONTRACTOR
 - ELECTRICAL CONTRACTOR RESPONSIBILITIES:
 - COORDINATION BETWEEN LIBERTY UTILITIES, THE GENERAL CONTRACTOR, THE SITE CONTRACTOR AND THEMSELVES
 - PROVIDING PRIMARY LINE EXTENSION RACEWAY FROM POLE TO THE TRANSFORMER, AS PER L-U REQUIREMENTS, INCLUDING POLE RISER MATERIALS. SUPPLY A PRE-CAST TRANSFORMER PAD
 - PROVIDE GROUNDING AT TRANSFORMER AS PER L-U REQUIREMENTS
 - COMPLETE SECONDARY WIRING FROM THE TRANSFORMER TO THE BUILDING SERVICE OVER-CURRENT DEVICE DISCONNECTION SWITCH; CONTRACTOR MAKES FINAL CONNECTION TO THE TRANSFORMER AS PER L-U REQUIREMENTS
 - PRIMARY WIRING SWEEP OUT OF TRANSFORMER FOR USE BY L-U
 - PROVIDE METERING CABINET, METER SOCKET AND 1.25" CONDUIT BETWEEN THE TWO ENCLOSURES
 - SITE CONTRACTOR RESPONSIBILITIES:**
 - TRENCHING AND BACKFILL FOR THE UNDERGROUND PRIMARY LINE EXTENSION AND ELECTRICAL SECONDARY SERVICE DUCTBANKS AS WELL AS FOR THE TRANSFORMER PAD
 - INSTALLATION OF THE TRANSFORMER PAD AS SUPPLIED BY THE ELECTRICAL CONTRACTOR, INSTALLATION AS PER L-U REQUIREMENTS

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- PROVIDE (1) #3/0 7 STRAND BARE COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" NON-METALLIC RIGID CONDUIT TO THE COLD WATER MAIN METALLIC SERVICE PIPE AT THE WATER ENTRANCE LOCATION. PROVIDE A #3/0 7 STRAND BARE COPPER BONDING JUMPER AT THE WATER METER TO MAINTAIN GROUNDING CONTINUITY. (NEC 250.52(1), 250.66)
 - PROVIDE ELECTRODE CONNECTION TO THE SPRINKLER WATER ENTRANCE IF SEPARATE FROM DOMESTIC WATER.
 - PROVIDE (1) #2 7 STRAND BARE COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" NON-METALLIC RIGID CONDUIT TO THE COLD WATER MAIN METALLIC SERVICE PIPE AT THE WATER ENTRANCE LOCATION. PROVIDE A #3/0 7 STRAND BARE COPPER BONDING JUMPER AT THE WATER METER TO MAINTAIN GROUNDING CONTINUITY. (NEC 250.52(1), 250.66)
 - PROVIDE ELECTRODE CONNECTION TO THE SPRINKLER WATER ENTRANCE IF SEPARATE FROM DOMESTIC WATER.
 - PROVIDE (1) #6 7 STRAND BARE COPPER BONDING JUMPER IN 1/2" NON-METALLIC RIGID CONDUIT TO A 1/2" DIAMETER (OR GREATER) MINIMUM 20'-0" LONG CONCRETE ENCASED REINFORCING BAR IN A SLAB OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH. MINIMUM 2" CONCRETE ENCASMENT. WHERE ADEQUATE REINFORCING ROD IS NOT AVAILABLE, PROVIDE 20' OF #4 COPPER CONDUCTOR INSTALLED IN THE CONCRETE, METALLICALLY TIED TO THE METALLIC REINFORCING RODS. (NEC 250.52(3), 250.66(B)).
 - PROVIDE ENGRAVED LABELS:
 - AVAILABLE FAULT CURRENT AND DATE (2017 NEC 110.24(A)). AVAILABLE FAULT CURRENT INFORMATION SHALL BE MADE AVAILABLE BY THE ENGINEER DURING CONSTRUCTION, PRIOR TO ENERGIZATION OF EQUIPMENT FOLLOWING FINAL COORDINATION WITH THE ELECTRIC UTILITY.
 - CONDUCTOR COLOR IDENTIFICATION LEGEND
 - PHASE ROTATION
 - SHORT CIRCUIT CURRENT IS CALCULATED BASED UPON INFINITE AVAILABLE UTILITY SHORT CIRCUIT CURRENT, MOTOR CONTRIBUTIONS, ESTIMATED 500KVA UTILITY TRANSFORMER WITH 2.0% IMPEDANCE.
 - PROVIDE A SURGE PROTECTIVE DEVICE. CONNECT TO A 40A 3P GROUND BREAKER; WIRING SHALL BE (4#6, #10G) 3/4". LOCATE SURGE SUPPRESSION DEVICE ADJACENT TO THE PANEL. PROVIDE SQUARE D #TYS-IMA WITH COUNTER OR APPROVED EQUAL; 120/208V, 3 PHASE, 4 WIRE, 240KA PEAK SURGE CURRENT PER PHASE IN A NEMA 1 ENCLOSURE.
 - PROVIDE 22.5KA, MINIMUM, 2 POLE SURGE PROTECTIVE DEVICE INTEGRAL TO UNIT PANEL.
 - BASIS OF DESIGN FOR SE(AL) CABLE IS SOUTHWIRE, 250-250-250-3/0 RATED 225 AMP FOR DWELLING.
 - PROVIDE NEW FEEDER FROM PANEL MDP TO SERVE EXISTING FACILITY RESIDENCE PANEL. DISCONNECT EXISTING GROUND ELECTRODE CONDUCTORS AND REMOVE BACK TO ELECTRODES; UTILIZE GROUND CONNECTION THROUGH NEW FEEDER.

DATE ISSUED: 05/15/2023
Drawn: ESVT
Checked: CFPB

REVISIONS:



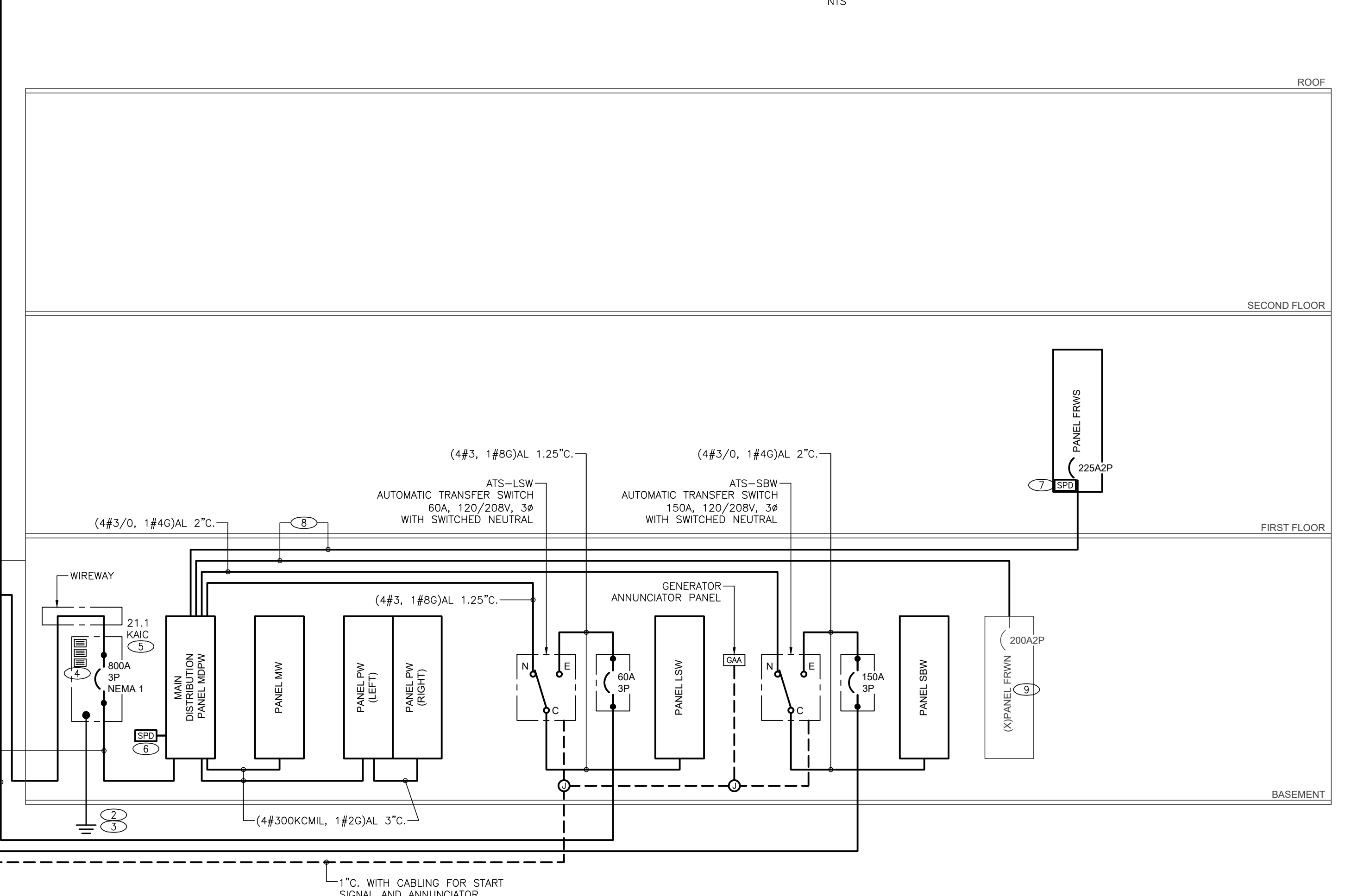
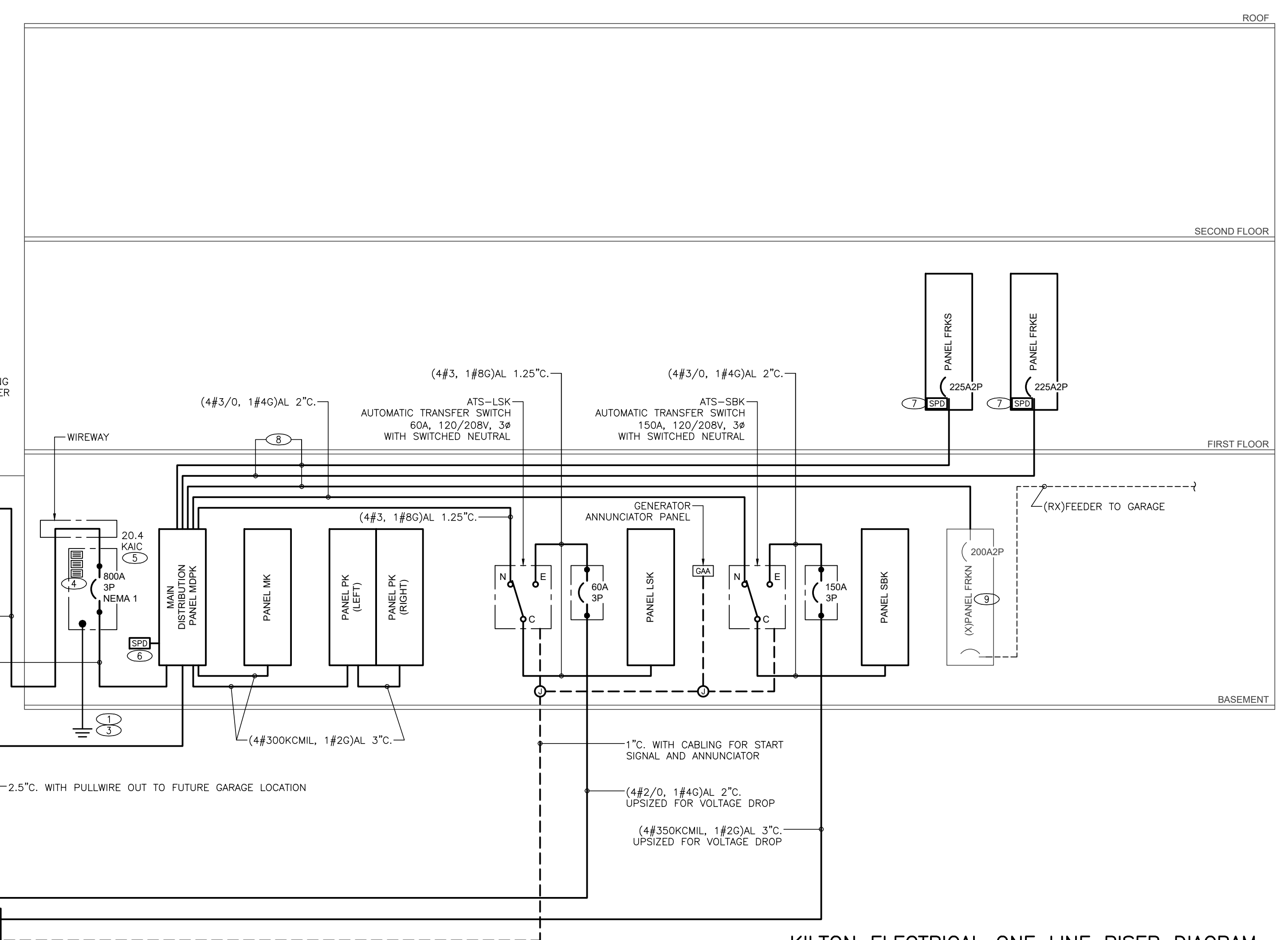
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**ELECTRICAL
ONE LINE
DIAGRAM**

E3



ELECTRICAL MONITORING SYSTEM:

PROVIDE POWER AND ENERGY MONITORING OF THE FOLLOWING POINTS FOR EACH OF THE KILTON AND WELCH DORMITORY BUILDINGS:

- KILTON POWER AND ENERGY MONITORING:**
- MAIN BUILDING SERVICE
 - FEEDERS TO EACH OF PANELS FRKN, FRKS, FRKE, LSK, AND SBK
 - FOR EACH OF THE NEW DORMITORY AND BOTH NEW FACULTY RESIDENCES (FR-A, FR-B):
 - LIGHTING
 - VENTILATION
 - HVAC
 - DOMESTIC WATER HEAT
 - ELECTRIC VEHICLE CHARGING
 - PLUG LOADS (CAN BE CALCULATED OF BALANCE OF LOADS NOT INCLUDED IN THE LOADS, ABOVE)
 - COLD WATER CONSUMPTION (COLD WATER INTO BUILDING)
 - FLOW THROUGH WASTE WATER HEAT RECLAIM
 - TEMPERATURE ON INLET AND OUTLET SIDE OF HEAT RECLAIM

- WELCH POWER AND ENERGY MONITORING:**
- MAIN BUILDING SERVICE
 - FEEDERS TO EACH OF PANELS FRWN, FRWS, MW, PW, LSW, AND SBW
 - FOR EACH OF THE NEW DORMITORY AND NEW FACULTY RESIDENCE (FR-A):
 - LIGHTING
 - VENTILATION
 - HVAC
 - DOMESTIC WATER HEAT
 - ELECTRIC VEHICLE CHARGING
 - PLUG LOADS (CAN BE CALCULATED OF BALANCE OF LOADS NOT INCLUDED IN THE LOADS, ABOVE)
 - COLD WATER CONSUMPTION (COLD WATER INTO BUILDING)
 - FLOW THROUGH WASTE WATER HEAT RECLAIM
 - TEMPERATURE ON INLET AND OUTLET SIDE OF HEAT RECLAIM

BASIS OF DESIGN FOR THE MONITORING SYSTEM IS PRODUCTS OF EGAGE. PROVIDE TWO EGAGE "PRO" FOR CONNECTIONS OF UP TO THIRTY CTS PER EACH EGAGE UNIT. EACH UNIT MOUNTED IN AN EGAGE POWERED ENCLOSURE KIT CONSISTING OF ENCLOSURE, DIN RAILS, RECEPTACLE, POWER DISTRIBUTION BLOCK AND WIRE SET.

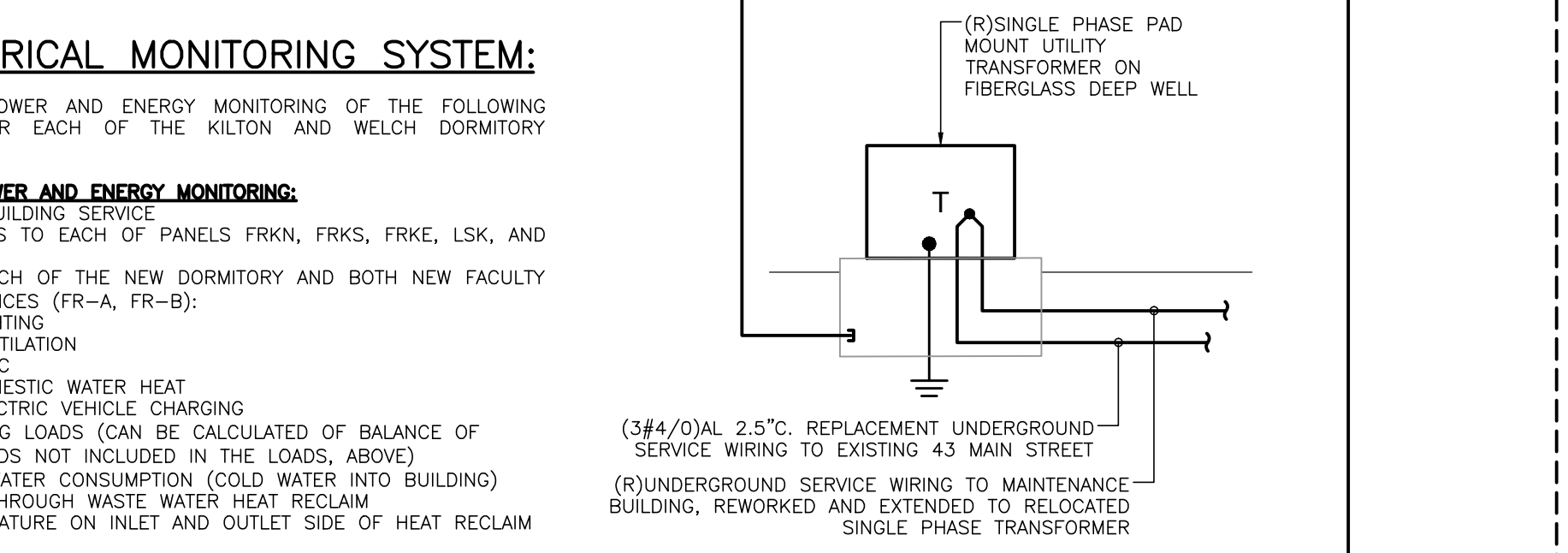
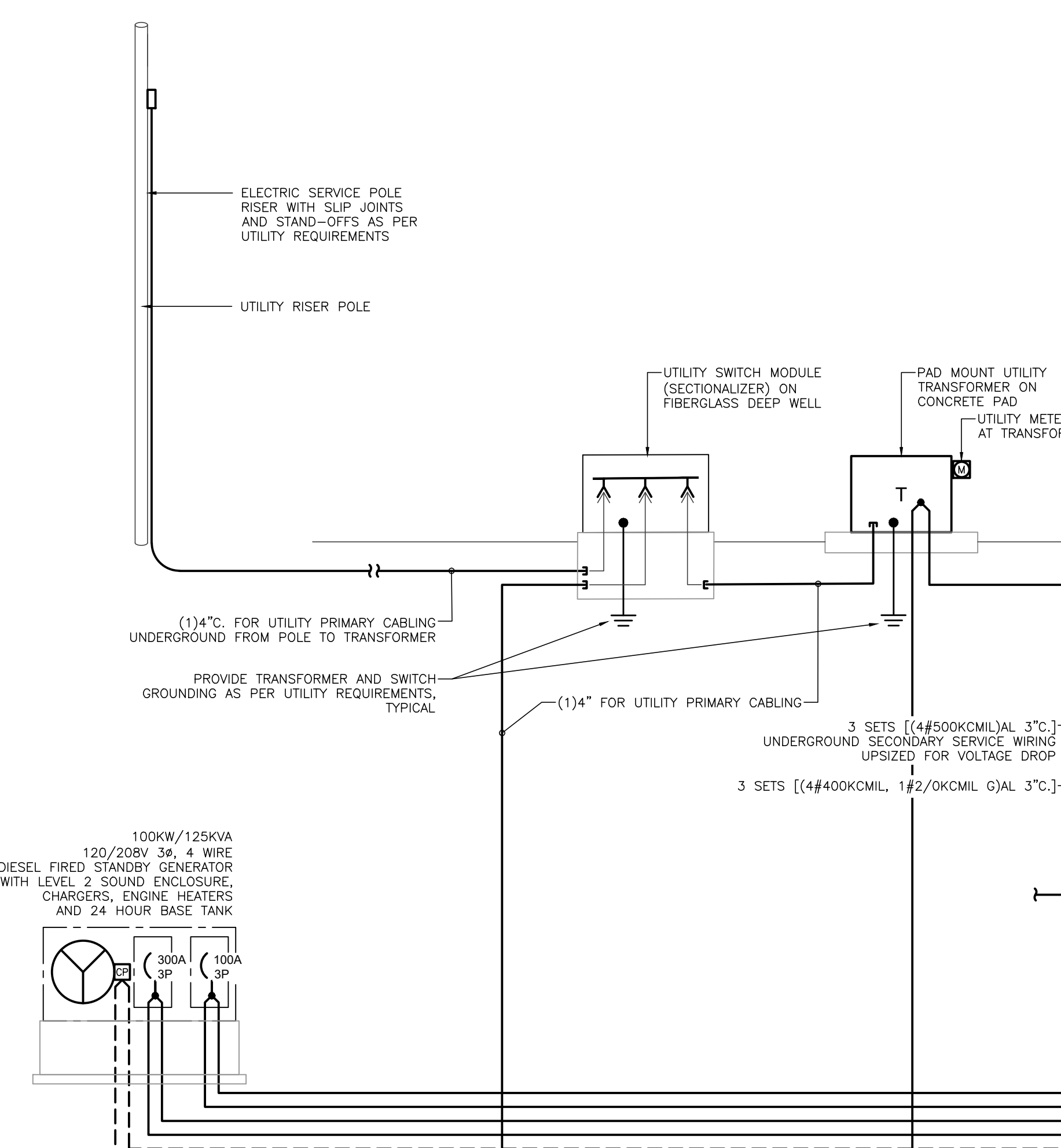
SYSTEM WILL REQUIRE A 15A 3P CONNECTION TO THE PANEL (3#12, 1#12N, 1#12G) 1/2", 20A 1P POWER CONNECTION TO RECEPTACLE AND CAT6 ETHERNET CONNECTION BACK TO PATCH PANEL.

PROVIDE A COMPLETE SYSTEM, INCLUDING ALL NECESSARY PARTS AND ACCESSORIES, AS WELL AS SET UP OF WEB-BASED MONITORING ON OWNER'S COMPUTER. THIS CONTRACTOR SHALL INCLUDE A MINIMUM OF 2 HOURS MANUFACTURER SUPPORT FOR PURPOSES OF SETTING UP THE SYSTEM.

LOCATE CURRENT TRANSFORMERS AT PANELS IN ELECTRIC ROOM, TO THE GREATEST EXTENT POSSIBLE.

LOCATE EQUIPMENT IN THE ELECTRICAL ROOM.

SUBMIT ALL PRODUCT INFORMATION FOR APPROVAL. SUBMITTAL SHALL BE BROKEN DOWN BY BUILDING, WITH OVERALL SYSTEM DIAGRAM. QUANTITIES OF DEVICES AND EQUIPMENT TO INCLUDE BREAKDOWN OF QUANTITIES AND RATINGS OF CURRENT TRANSFORMER EQUIPMENT FOR LOADS.



AUTOMATIC LIGHTING CONTROL DEVICE SCHEDULE					
SYMBOL	TYPE/DESCRIPTION	VOLTS/WATTS/AMPS	MANUFACTURER	SERIES/CATALOG NO.	COVERAGE/PATTERN
PS	PASSIVE-INFRARED CEILING MOUNT SENSOR	20A SWITCH LOAD, 15VDC CONTROL 5W, 120V INPUT	SENSOR SWITCH	CM-9 SENSOR; PP20/PP20-2P POWER PACK	450 SQUARE FEET 14' RADIUS 360' COVERAGE
DT	DUAL TECHNOLOGY CEILING MOUNT SENSOR	20A SWITCH LOAD, 15VDC CONTROL; 5W, 120V INPUT	SENSOR SWITCH	CM-PDT-9 SENSOR; PP20/PP20-2P POWER PACK	450 SQUARE FEET 14' RADIUS 360' COVERAGE
PI	PASSIVE INFRARED WALL MOUNT SENSOR	20A SWITCH LOAD, 15VDC CONTROL 5W, 120V INPUT	SENSOR SWITCH	WV-PDT-16 SENSOR; PP20/PP20-2P POWER PACK	40' RANGE 8' MOUNTING HEIGHT
PS _D	PASSIVE-INFRARED WALL ON/OFF SENSOR SWITCH D = DIMMING VERSION	800W SWITCH LOAD, 120/277V RATED	SENSOR SWITCH	WSX	630 SQUARE FEET 20' RADIUS 180' COVERAGE
DT _D	DUAL TECHNOLOGY WALL ON/OFF SENSOR SWITCH D = DIMMING VERSION	800W SWITCH LOAD, 120/277V RATED	SENSOR SWITCH	WSX-PDT	630 SQUARE FEET 20' RADIUS 180' COVERAGE
ES	0-10VDC DIMMING DAYLIGHT SENSOR CONTROL	120VAC 12-24 VAC/VDC	SENSOR SWITCH	CMR-ADC CM-ADC	

AUTOMATIC LIGHTING CONTROL DEVICE SCHEDULE GENERAL NOTES:

- INSTALL OCCUPANCY SENSOR CONTROL DEVICES AND ALL ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS TO OPTIMIZE CONTROLLER ABILITY (IE: AVOID PLACEMENT NEAR HVAC LOUVERS, MASKING OF SENSORS, ETC.).
 - SENSOR LOCATIONS INDICATED ON PLAN ARE APPROXIMATE; PROVIDE QUANTITIES NECESSARY AND LOCATE SENSORS AS PER THE MANUFACTURER'S APPROVED SHOP DRAWINGS.
 - WIRING OF AUTOMATIC LIGHTING CONTROLS AS INDICATED ON THE PLAN DRAWINGS IS INTENDED ONLY TO PROVIDE SWITCHGROUP DIRECTION; INTERCONNECT AUTOMATIC CONTROLS, MANUAL SWITCHES AND LUMINAIRES AS PER MANUFACTURER'S RECOMMENDATIONS.
- INDICATE FINAL LOCATIONS OF SENSORS AND ASSOCIATED DEVICES (SWITCHES, POWER PACKS/POWER SUPPLY MODULES) ON AS-BUILT DOCUMENTS.
- DUAL TECHNOLOGY SENSORS SHALL EMPLOY A COMBINATION OF PASSIVE-INFRARED AND EITHER ULTRASONIC OR MICRO-PHONIC TECHNOLOGY TO SENSE THE PRESENCE OF OCCUPANTS IN A SPACE.
- PROVIDE SENSOR FOR SURFACE OR RECESSED MOUNTING AS APPROPRIATE.
- REFER TO AUTOMATIC LIGHTING CONTROLS PERFORMANCE SPECIFICATION FOR ADDITIONAL INFORMATION.

LUMINAIRE SCHEDULE						
KEY	DESCRIPTION AND FINISH	MOUNTING	MANUFACTURER	SERIES OR TYPE (NOT A COMPLETE CAT. #)	VOLT/WATT	LAMP(S)
A3 •A3	3" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF3 LED 30K MVOLT 90CRI MW	120V 8W	LED, INTEGRAL TO LUMINAIRE 540 LUMEN 50,000 HRS LM70 80 CRI 3,000K CCT
A4 •A4	4" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF4 LED 30K MVOLT 90CRI MW (SET FOR 3,000K CCT COLOR TEMP.)	120/277V 11W	LED, INTEGRAL TO LUMINAIRE 1,090 LUMEN 50,000 HRS LM70 90 CRI 3,000K CCT
A6 •A6	6" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF6 LED 30K MVOLT 90CRI MW (SET FOR 3,000K CCT COLOR TEMP.)	120/277V 14W	LED, INTEGRAL TO LUMINAIRE 1,090 LUMEN 50,000 HRS LM70 90 CRI 3,000K CCT
A8 •A8	8" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF8 LED 30K MVOLT 90CRI MW (SET FOR 3,000K CCT COLOR TEMP.)	120/277V 21W	LED, INTEGRAL TO LUMINAIRE 1,890 LUMEN 50,000 HRS LM70 90 CRI 3,000K CCT
B •B	2" VANITY LUMINAIRE, NICKEL TONE FORMED STEEL HOUSING, WHITE ACRYLIC DIFFUSER.	(11)	BROWNLEE LIGHTING	5190 26 NT H16 30K ES	120/277V 16W	LED, INTEGRAL TO LUMINAIRE 1,506 LUMEN 100,000 HRS LM70 >80 CRI 3,000K CCT
D •D	36" CIRCULAR LED PENDANT LUMINAIRE, LUMINOUS RING WITH WHITE METAL HOUSING, 5" HIGH MATTE OPAL DIFFUSER, 6.75" CANOPY STEM TO HUB WITH 3 AIRCRAFT CABLES ADJUSTED AS NECESSARY FOR MOUNTING HEIGHT, AND WHITE POWER CORD, 0-10VDC DIMMING	PENDANT ~14" AFF FIRST FLOOR TO BOTTOM	SPI LIGHTING	NOVATO RING PENDANT L108W 1220-277V 3000K H05 FB00 MIA	120/277V 108W	LED, INTEGRAL TO LUMINAIRE 11,034 LUMEN 60,000 HRS LM70 >80 CRI 3,000K CCT
E •E	4" ROUND LED CYLINDER DECORATIVE PENDANT, MATTE ACRYLIC DIFFUSER, POWER CORD SUSPENSION WITH POWER SUPPLY CANOPY, 45" MEDIUM DISTRIBUTION, 0-10VDC DIMMING.	PENDANT ~6" AFF TO BOTTOM	SPI LIGHTING	VALLEJO LC PENDANT L14W 120-277V 3000K 10W-45" MEDIUM DF-MA01 DF-PSC	120/277V 10W	LED, INTEGRAL TO LUMINAIRE 800 LUMEN 60,000 HRS LM70 >80 CRI 3,000K CCT
F •F	24" ROUND x 6" HIGH DIRECT/INDIRECT LED PENDANT LUMINAIRE, WHITE ACRYLIC DIFFUSER, ENCASED WHITE LINEN DRUM, WHITE METAL HOUSING, POWER CORD WITH 3 AIRCRAFT CABLE SUSPENSION (OVERALL 30" LENGTH), 0-10VDC DIMMING.	PENDANT, OVERALL 30" SUSPENSION	BROWNLEE LIGHTING	CLEAN 6 2630 24 NT H30 EWL CC3 30K	120/277V 30W	LED, INTEGRAL TO LUMINAIRE 3,000 LUMEN 60,000 HRS LM70 >80 CRI 3,000K CCT
G •G X	LINEAR DIRECT/INDIRECT WALL MOUNT LED LUMINAIRE, ALUMINUM HOUSING, SATIN SILVER FINISH, FLUSH DIRECT LENS, TOP GLOW INDIRECT LENS. 4.25"H x 2.5"D x X" (LENGTHS IDENTIFIED ON PLAN DRAWING)	(11)	MARK ARCHITECTURAL LIGHTING	S2WID LLP 80CRI 30K 300LMF 180CRI 130K 4.3 1300LMF SCT NODIM FLL TGLD MVOLT	120/277V 4.3 W/FT	LED, INTEGRAL TO LUMINAIRE 271 LU DIRECT 315 LU INDIRECT 60,000 HRS LM70 >80 CRI 3,000K CCT
K •K	DIRECT/INDIRECT LED WALL SCONCE LUMINAIRE, 12"W x 2.25"D x 3.5"H, FORMED STEEL HOUSING, ENERGY STAR LISTED. FINISH AS SELECTED BY ARCHITECT.	WALL 6" AFF TO CENTER	BROWNLEE LIGHTING	BRICK-ID 1575D 12 H16 30K ES	120/277V 16W	LED, INTEGRAL TO LUMINAIRE 1,357 LUMEN 60,000 HRS LM70 >70 CRI 3,000K CCT
UC •UC	24V LED TAPE LIGHT, 121LU/FT, 3W/FT, SLIM EXTRUDED ALUMINUM CHANNEL, FROSTED SNAP-IN LENS, DIMMER/DRIVER WALL CONTROLLER. PROVIDE ALL CONNECTORS, SPLICES, ETC. FOR COMPLETE INSTALLATION. LENGTHS AS PER PLAN DRAWINGS. (13)	REFER TO NOTE ON PLAN DRAWINGS	DIODE LED	24V-BLSC2 DI-CPCHA-SL DI24V-SE-60W	120V 3 W/FT	LED, INTEGRAL TO LUMINAIRE 121 LUMEN/FOOT 90 CRI 3,000K CCT
ST •ST I	48" LED STRIP LIGHT WITH FROSTED DROPPED LENS, FORMED WHITE METAL HOUSING, INTEGRAL PASSIVE INFRARED OCCUPANCY SENSOR.	CEILING SURFACE	ACUITY BRANDS LITHONIA	CSS L48 4000LM MVOLT 35K 80CRI SFR7C55	120/277V 35W	LED, INTEGRAL TO LUMINAIRE 4,298 LUMEN 100,000 HRS LM70 >80 CRI 3,000K CCT
ST •ST I	48" LED STRIP LIGHT WITH FROSTED DROPPED LENS, FORMED WHITE METAL HOUSING.	CEILING SURFACE	ACUITY BRANDS LITHONIA	CSS L48 4000LM MVOLT 35K 80CRI	120/277V 35W	LED, INTEGRAL TO LUMINAIRE 4,298 LUMEN 100,000 HRS LM70 >80 CRI 3,000K CCT
SA •SA	DECORATIVE POST TOP LUMINAIRE, TO MATCH CAMPUS STANDARD; LUMINAIRE, POLE, FINISH, OVERALL HEIGHT, TO MATCH EXISTING.	10' POLE ON CONCRETE BASE	COOPER VALMONT	STREETWORKS UTLD TRADITIONAIRE UTLD PA1 70W 740 U T3 A BK 090830504T4	120/277V 74W	LED, INTEGRAL TO LUMINAIRE 7,359 LUMEN 100,000 HRS LM70 >80 CRI 4,000K CCT
EXIT	EXIT LUMINAIRE, WHITE THERMOPLASTIC HOUSING, RED LED LETTERS, WITH FACES AND ARROWS AS INDICATED.	(12)	DUAL-LITE	EVC	120V 3W	LED; PROVIDED INTEGRAL TO LUMINAIRE
EB	EMERGENCY BATTERY UNIT (EBU) WITH TWO LED LIGHTING HEADS, WHITE THERMOPLASTIC HOUSING, BATTERY FOR SELF POWERING OF LIGHTING HEADS FOR MINIMUM 90 MINUTES SELF-POWERED OPERATION	(12)	DUAL-LITE OR APPROVED EQUAL	EV4	120V 2W	LED LAMP HEADS PROVIDED INTEGRAL TO LUMINAIRE

LUMINAIRE SCHEDULE KEYED NOTES:

- WHERE LUMINAIRE IS MOUNTED ABOVE THE VANITY, CENTER ON VANITY, 6" ABOVE TOP OF MIRROR.
- MOUNT LUMINAIRE 96" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. WHERE SHOWN ABOVE A DOOR, MOUNT CENTERED ABOVE DOOR FRAME, 8" ABOVE THE TOP OF THE DOOR. WHERE EMERGENCY AND EXIT LUMINAIRES ARE SHOWN ABOVE A DOOR, MOUNT THE EMERGENCY LUMINAIRE CENTERED ABOVE THE EXIT SIGN.
- PROVIDE COMPLETE SYSTEM OF LED TAPE, INCLUDING POWER SUPPLY(S), MOUNTING CHANNEL AND WIRING FOR A COMPLETE SYSTEM. CONCEAL POWER SUPPLY. ROUTE ALL WIRING CONCEALED (OUT OF VIEW) IN A NEAT AND WORKMANLIKE MANNER.

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

LIGHTING CONTROL PERFORMANCE SPECIFICATION

GENERAL LIGHTING CONTROL OPERATIONS:

- PROVIDE STAND-ALONE LIGHTING CONTROLS CONSISTING OF MANUAL SWITCHES, OCCUPANCY SENSORS AND DAYLIGHT SENSORS.
- MANUAL SWITCHES: OVER-RIDE AUTOMATIC CONTROLS TO SWITCH ALL LUMINAIRES BEING CONTROLLED, OFF.
- OCCUPANCY SENSORS: SET UP AS VACANCY SENSORS; TURN OFF LUMINAIRES IN THE SPACE BASED UPON NO OCCUPANCY AND LUMINAIRES MUST BE TURNED BACK ON MANUALLY. OCCUPANCY SENSORS SHALL BE ADJUSTED TO TURN LUMINAIRES OFF AFTER 10 MINUTES OF SENSING NO OCCUPANCY.
- AUTOMATIC LIGHTING CONTROL EQUIPMENT SHALL BE PRODUCTS OF ONE MANUFACTURER.
- WHERE MANUAL DIMMING SWITCHES ARE INDICATED TO BE PROVIDED, COORDINATE DIMMING TYPE (STANDARD, 0-10VDC, ETC.) WITH LUMINAIRES BEING CONTROLLED TO ENSURE COMPATIBILITY.
- 0-10VDC WIRING SHALL BE 300V RATED 18-2. MAINTAIN CONSISTENT VIOLET (+) AND PINK (-) COLOR CODING THROUGHOUT ALL 0-10VDC DIMMING CONTROL WIRING.
- DAYLIGHT SENSORS: PROVIDE DAYLIGHT DIMMING (0-10VDC) CONTROL OF LUMINAIRES BASED UPON AVAILABLE DAYLIGHT. ADJUST CONTROL FOR LUMINAIRE TO PROVIDE FOOT-CANDLE LEVELS INDICATED IN SCHEDULES, AVERAGE, MAINTAINED WHEN DAYLIGHT IS AVAILABLE, MINIMUM.
- DAYLIGHT DIMMING CONTROLS AND MANUAL DIMMING CONTROLS WORK TOGETHER SUCH THAT THE DIMMED LIGHTING LEVEL IN THE SPACE IS CONTROLLED BY WHICHEVER DIMMING CONTROL (DAYLIGHT OR MANUAL) IS DEMANDING LESS LIGHT OUTPUT.
- EXTERIOR LIGHTING SHALL BE CONTROLLED BY MANUAL SWITCHES WITH PHOTOCELL OVERRIDE, OFF, UNLESS OTHERWISE NOTED.
- PROVIDE UL924 RELAYS AS NECESSARY FOR OVERRIDING AUTOMATIC LIGHTING CONTROLS TO BRING ALL EMERGENCY (LIFE SAFETY) LUMINAIRES ON, AT FULL BRIGHTNESS.
- BASIS OF DESIGN PRODUCT IS LVS EPC-2-D PRODUCT FOR FLUSH MOUNTING IN WALL IN STANDARD DEVICE BOX. MOUNT DEVICE ~8" AFF WITHIN THE AREA BEING CONTROLLED TO BE ACCESSIBLE FOR TESTING.
- UPON LOSS OF NORMAL UTILITY POWER OR WHEN FIRE ALARM GOES INTO ALARM, UL924 RELAY SHALL PROVIDE OVERRIDE OF AUTOMATIC CONTROLS.
- SUBMIT PRODUCT FOR REVIEW AND APPROVAL.
- SUBMIT SUBMITTAL INFORMATION SPECIFIC FOR CONTROL SYSTEM, INCLUDING WIRING DIAGRAMS SPECIFIC FOR THE PROJECT SHOWING ALL INTERCONNECTION WIRING AND DEVICES.
 - INCLUDE INFORMATION ON EACH TYPE OF DEVICE BEING USED; INDICATE SPECIFIC DEVICE ON SUBMITTAL.
 - ENSURE COMPATIBILITY WITH LUMINAIRES BEING CONTROLLED.
 - PROVIDE WIRING DIAGRAMS SHOWING CONTROL GROUP WIRING AS WELL AS CONNECTIONS TO THE EXISTING NETWORKED LIGHTING CONTROL SYSTEM.
 - REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL PROVIDE ALL PROGRAMMING, ADJUSTMENTS AND OWNER TRAINING ON THE LIGHTING CONTROL SYSTEM.
 - CONTRACTOR SHALL DEMONSTRATE THE OPERATIONS OF THE LIGHTING CONTROL SYSTEM AND RUN IT THROUGH ITS PACES WITH THE OWNER.
 - CONTRACTOR SHALL PROVIDE MINIMUM 1.5 HOURS OF OWNER TRAINING CONDUCTED BY A MANUFACTURER'S TECHNICIAN.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PROGRAMMING AND ADJUSTMENTS OF THE LIGHTING CONTROL SYSTEM TO ENSURE OPERATION IS TO OWNER'S SATISFACTION.



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DATE ISSUED: 05/15/2023

Drawn: ESVT

Checked: CFB

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KUA
KILTON/WELCH
DORMITORIES

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ELECTRICAL
LUMINAIRE
SCHEDULE

E4

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**KUA
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DORMITORIES**

Main Street
Meriden, NH 03770

**ELECTRICAL
DEMOLITION**

EK5

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

REFER TO GENERAL DEMOLITION NOTES ON DRAWING E2 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

DEMOLITION DRAWING NOTES:

1 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS AREA TO ALLOW FOR CONSTRUCTION OF NEW STAIR. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.

2 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS PORTION OF WALL TO ALLOW FOR ITS DEMOLITION. RETAIN EXISTING POWER WIRING FOR REUSE.

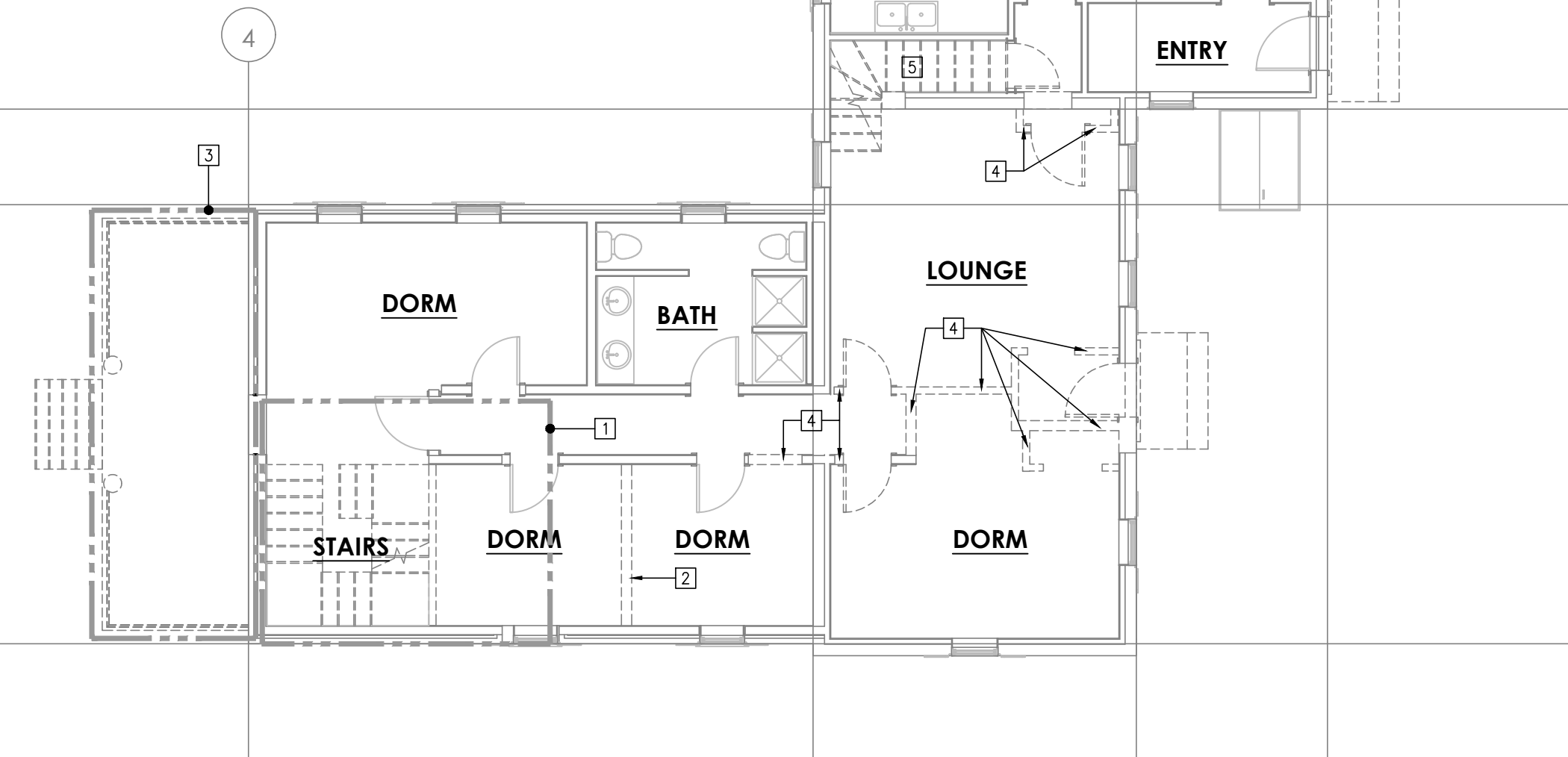
3 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THE PORCH TO ALLOW FOR CONSTRUCTION OF NEW DORMITORY ADDITION. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.

4 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS WALL TO ALLOW FOR ITS DEMOLITION. RETAIN EXISTING POWER WIRING FOR REUSE.

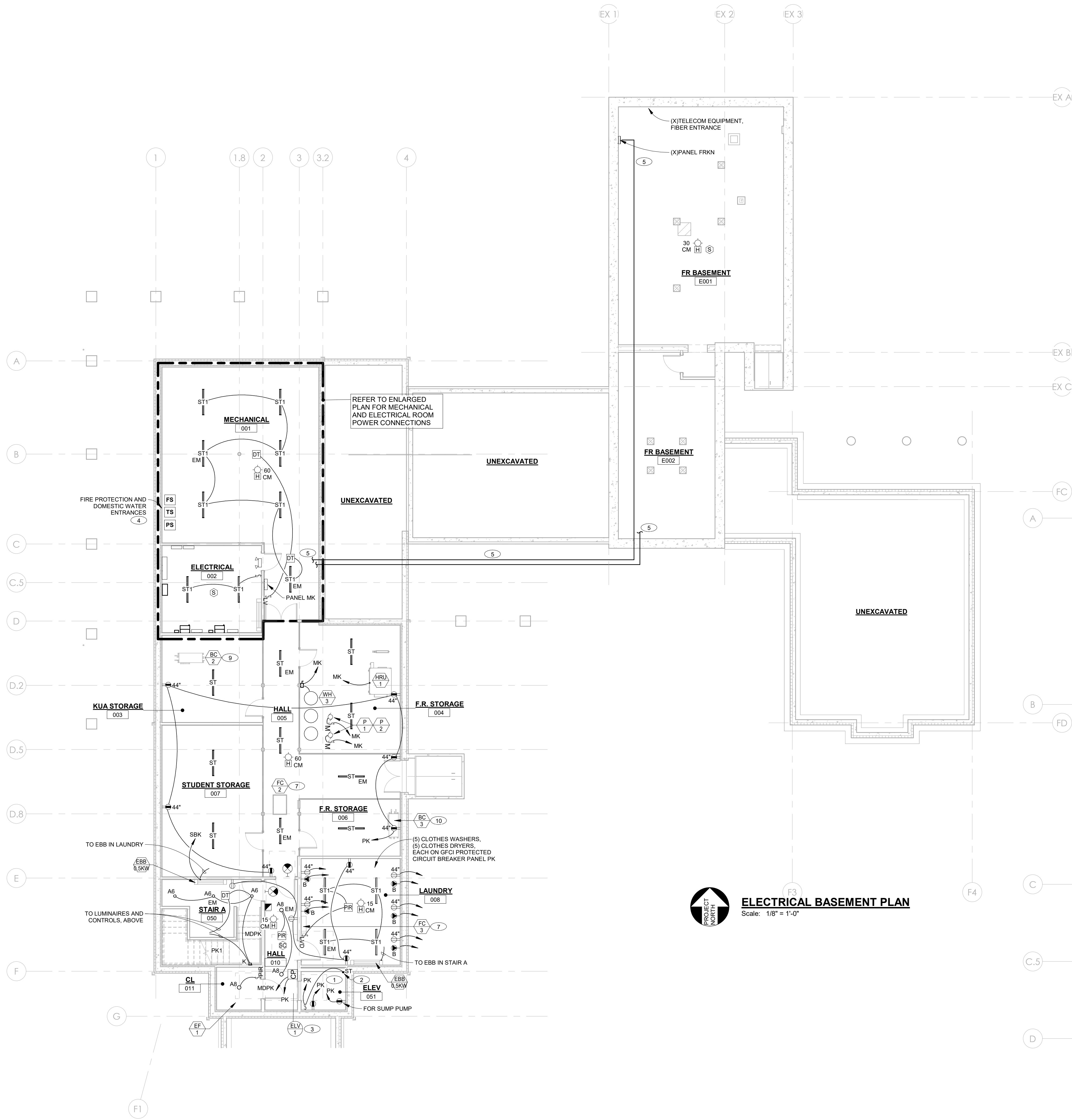
5 DISCONNECT AND REMOVE ELECTRICAL FROM THIS AREA AS REQUIRED TO DEMOLISH STAIR. RETAIN EXISTING POWER WIRING FOR REUSE.



ELECTRICAL DEMOLITION SECOND FLOOR
SCALE: 1/8"=1'-0"



ELECTRICAL DEMOLITION FIRST FLOOR
SCALE: 1/8"=1'-0"



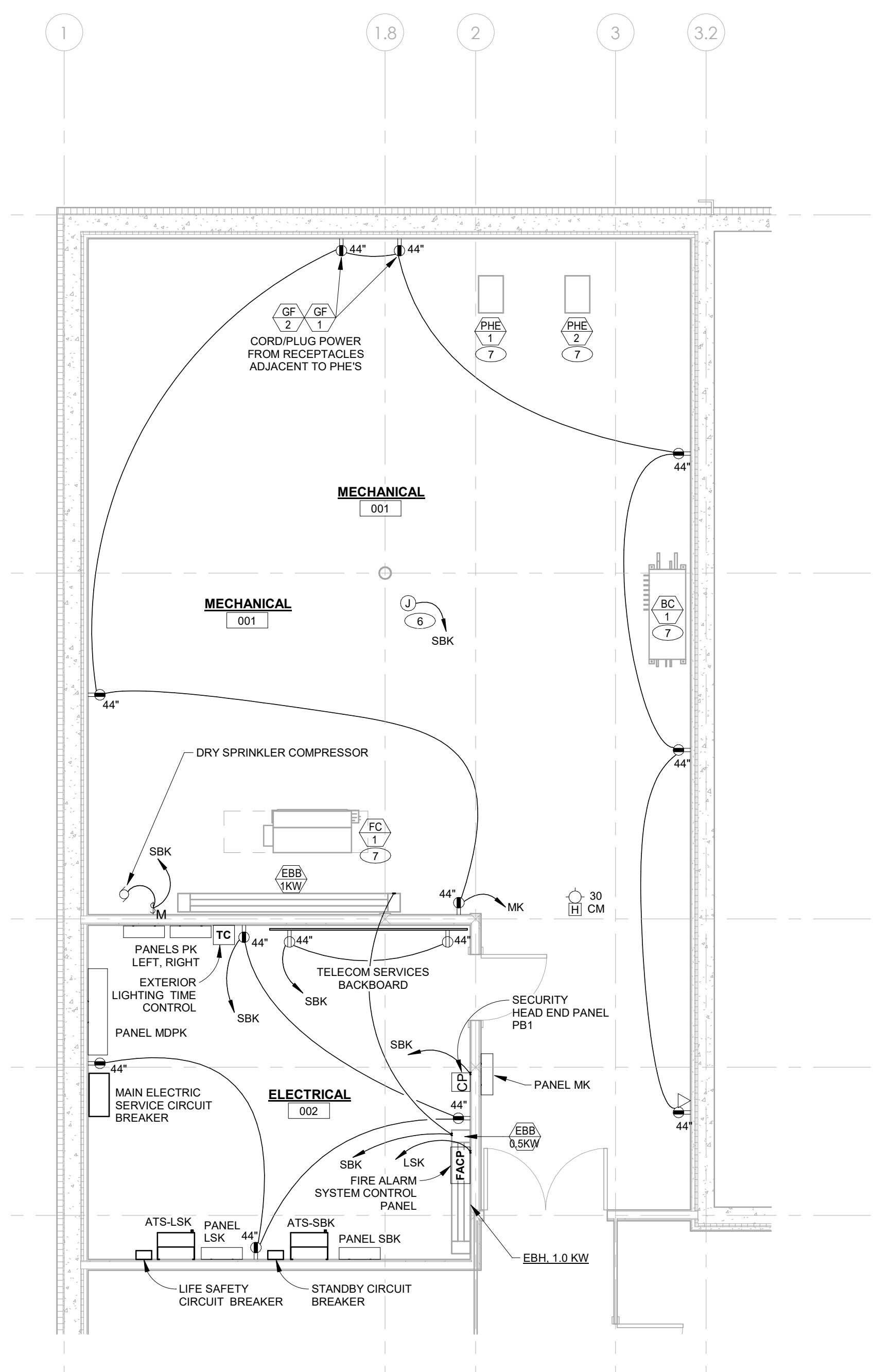
ELECTRICAL BASEMENT PLAN
Scale: 1/8" = 1'-0"

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
1. INSTALL SERVICE RECEPTACLE, SWITCH, LIGHT AND SUMP RECEPTACLE. COORDINATE LOCATIONS WITH APPROVED ELEVATOR SHOP DRAWING AND ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
 2. LOCATE A TYPE ST LUMINAIRE MOUNTED VERTICALLY IN CORNER OF SHAFT.
 3. ELEVATOR CONTROLLER IS INTEGRAL TO THE ELEVATOR FACING INTO THE CORRIDOR WITH DISCONNECTS INTEGRAL TO THE CONTROLLER. PROVIDE POWER CONNECTIONS FOR ELEVATOR POWER, CAB LIGHTING AND A CAB POTS LINE FOR CAB TELEPHONE. PROVIDE A FIRE ALARM SYSTEM RELAY MODULE CONNECTION TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. COORDINATE FINAL LOCATIONS WITH APPROVED ELEVATOR SHOP DRAWING AND ELEVATOR INSTALLER.
 4. PROVIDE MONITORING OF SPRINKLER FLOW AND TAMPER SWITCHES BY THE FIRE ALARM SYSTEM. COORDINATE QUANTITY OF FIRE PROTECTION DEVICES TO BE MONITORED WITH THE APPROVED FIRE PROTECTION SHOP DRAWING AND SYSTEM INSTALLER.
 5. PROVIDE NEW FEEDER UNDERGROUND TO PANEL FRNK FROM MDPK. PROVIDE A 1.5" CONDUIT PARALLEL FOR NEW CIRCUITS FROM PANEL MK TO MECHANICAL EQUIPMENT. PROVIDE (2) 2.5" SPARE CONDUITS PARALLEL FOR COMMUNICATIONS/FUTURE (REFER TO LV SERIES DRAWINGS).
 6. PROVIDE CIRCUIT FOR MECHANICAL CONTROL POWER. COORDINATE LOCATIONS WITH MECHANICAL.
 7. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC1, PHE1, PHE2, FC1, FC2, FC3.
 8. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC4, FC5, FC8, FC9, FC11, FC12.
 9. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC2, FC10, FC13, FC14, FC21, FC22, FC23, FC24, FC25.
 10. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC3, FC7, FC8, FC15.
 11. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC16, FC17, FC18, FC19, FC20.
 12. PROVIDE WIRING FROM HP3 THROUGH ALL OF FC4A THROUGH FC4I.

GENERAL NOTES:

- REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.
- PROVIDE LIGHTING CIRCUITS AS FOLLOWS:
1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSK TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
 2. STANDBY: PROVIDE A COMMON CIRCUIT IN PANEL SBK TO SERVE ALL LUMINAIRES IN:
 - A. 001 MECHANICAL
 - B. 002 ELECTRICAL
 - C. 005 HALL
 - D. 010 HALL
 - E. 050 STAIR A
 3. PROVIDE A COMMON CIRCUIT IN PANEL PK TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE DORMITORY BASEMENT.



ENLARGED ELECTRIC & MECHANICAL ROOMS
Scale: 1/4" = 1'-0"



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**KUA
KILTON/WELCH
DORMITORIES**

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**KILTON
ELECTRICAL
BASEMENT**

EK6

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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
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**KILTON
LIGHTING FIRST
FLOOR**

EK7

DRAWING NOTES:

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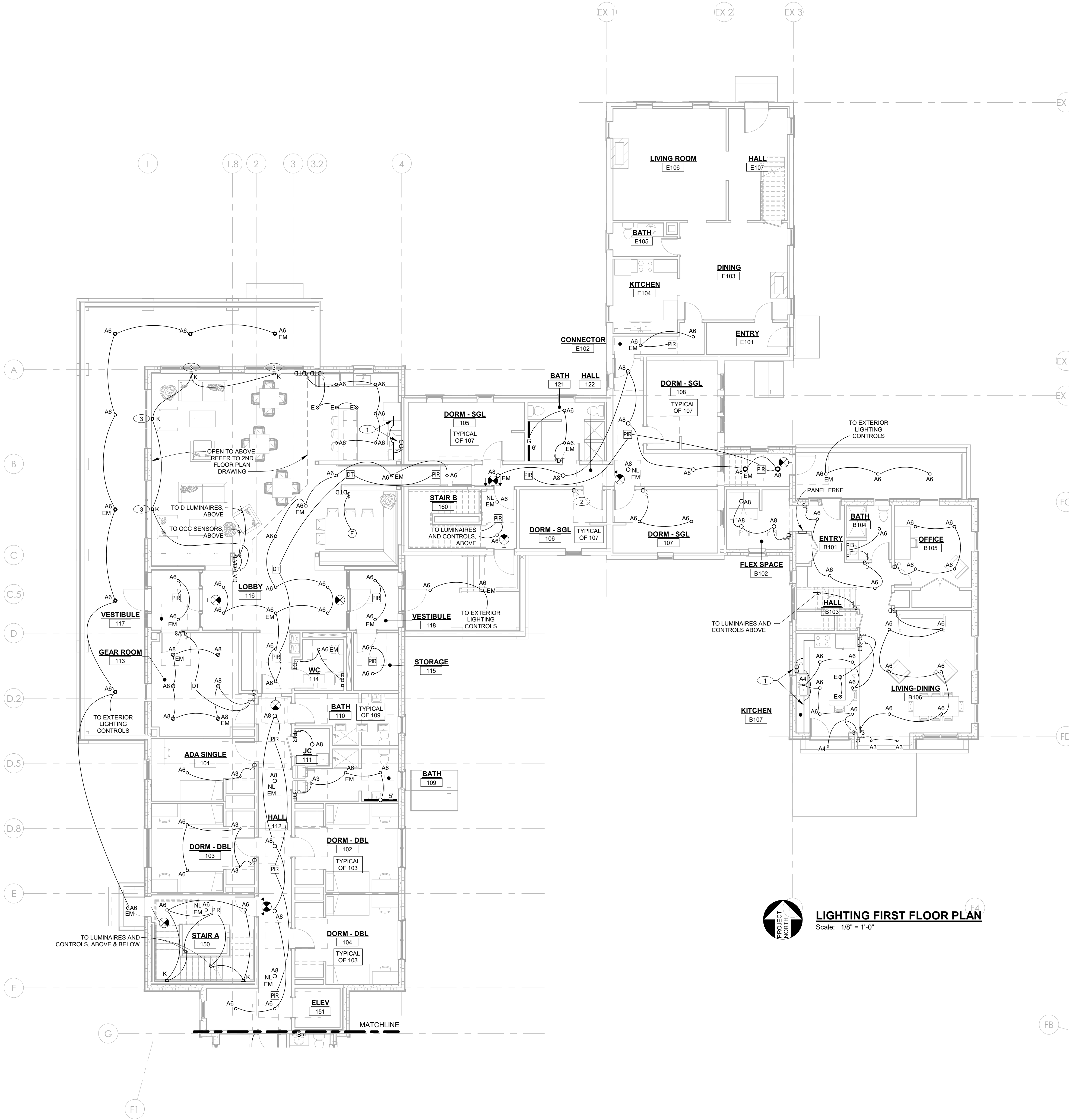
- 1 MOUNT TYPE UC UNDERCABINET LED TAPE LUMINAIRES TO UNDERSIDE OF CABINETRY, -1" BACK FROM THE FRONT UNDERSIDE FRAME, CONCEALED BY BOTTOM LIP OF THE CABINET. PROVIDE LENGTHS AS NECESSARY. PROVIDE DIMMER SWITCH INCORPORATING BOTH ON/OFF/DIMMING CONTROL AND DRIVER. CONCEAL ALL CABLING FROM VIEW, SECURING ATTACHING AND RUN AT UNDERSIDE OF CABINETRY. CONNECT TO UNSWITCHED PORTION OF GFCI PROTECTED CIRCUIT SERVING THE RANGE HOOD.
- 2 BASE BID, PROVIDE NEW SWITCH FOR EXISTING DORM ROOM LIGHTING TO ACCOMMODATE WALL WORK. REWORK AND EXTEND SWITCHLEG WIRING TO NEW SWITCH, AS NECESSARY.
- 3 CENTER LUMINAIRE IN-BETWEEN THE UPPER AND LOWER WINDOWS.

GENERAL NOTES:

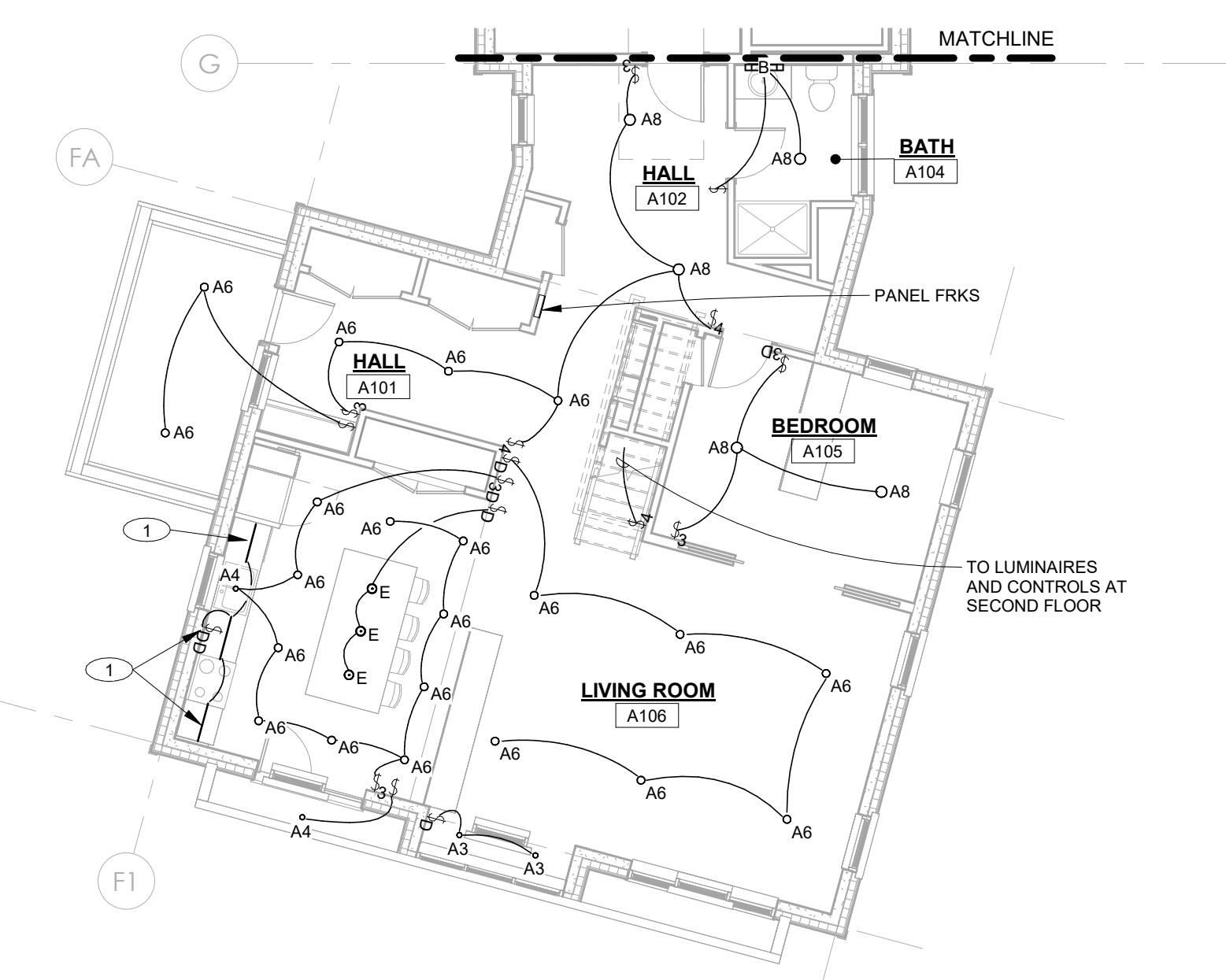
REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

PROVIDE LIGHTING CIRCUITS AS FOLLOWS:

1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSK TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
2. STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBK TO SERVE ALL LUMINAIRES IN:
 - A. WEST PORCH
 - B. EAST PORCH
 - C. STAIR B PORCH
 - D. 109 BATH
 - E. 110 BATH
 - F. 114 WATER CLOSET
 - G. 116 LOBBY
 - H. 117 VESTIBULE
 - I. 118 VESTIBULE
 - J. 119 LOUNGE
 - K. 122 HALL
 - L. E102 CONNECTOR
 - M. 150 STAIR A
 - N. 160 STAIR B
3. PROVIDE A COMMON CIRCUIT IN PANEL PK TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE DORMITORY FIRST FLOOR.



LIGHTING FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"



LIGHTING FIRST FLOOR PLAN SOUTH
Scale: 1/8" = 1'-0"

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

1 (NOT USED)

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

PROVIDE LIGHTING CIRCUITS AS FOLLOWS:

1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSK TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
2. STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBK TO SERVE ALL LUMINAIRES IN:
 - A. 212 BATH
 - B. 215 LOUNGE
 - C. 216 BATH
 - D. 217 HALL
 - E. 223 HALL
 - F. 250 STAIR A
 - G. 260 STAIR B
3. PROVIDE A COMMON CIRCUIT IN PANEL PK TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE DORMITORY SECOND FLOOR.



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**KUA
KILTON/WELCH
DORMITORIES**

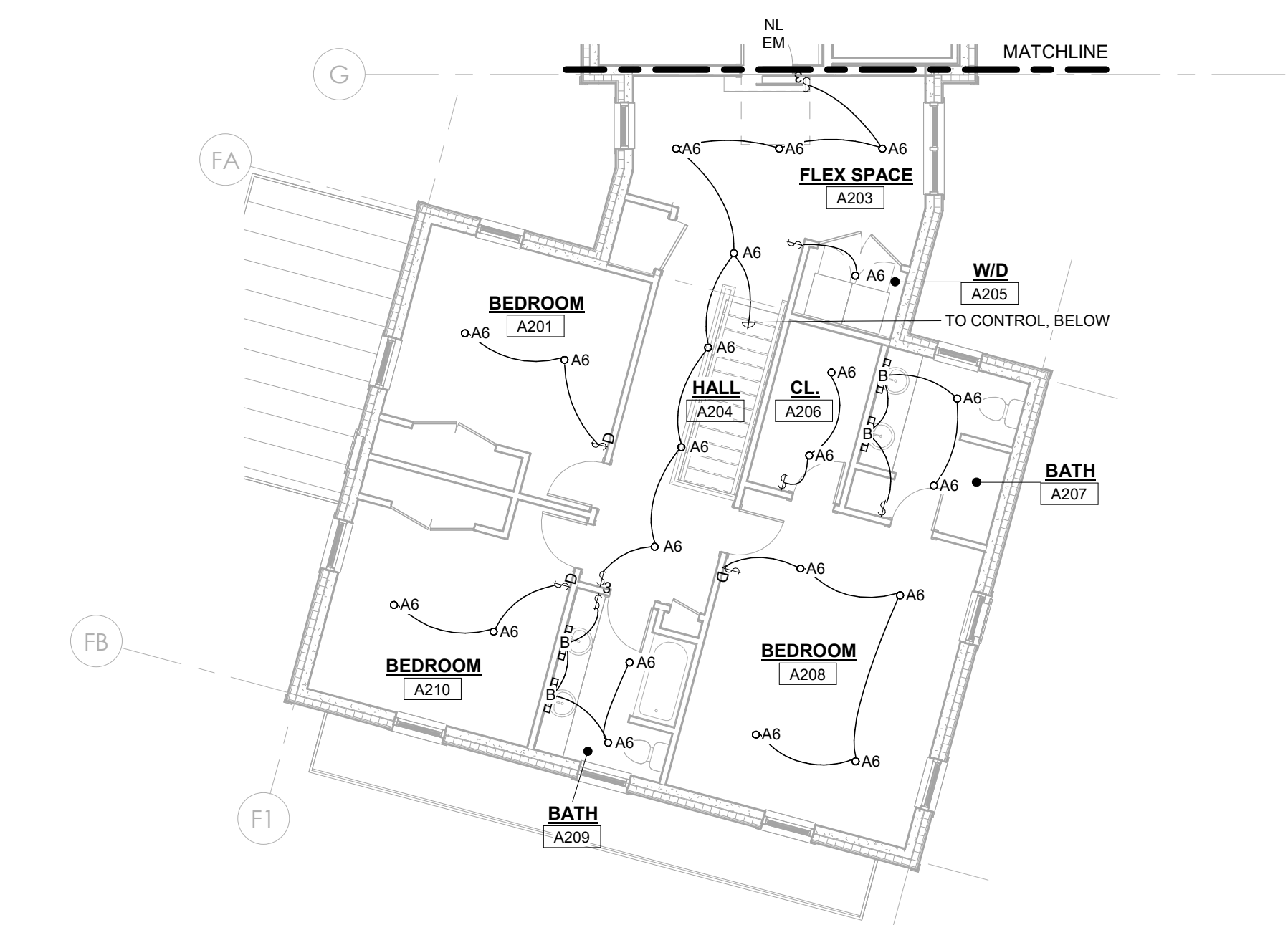
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**KILTON
LIGHTING
SECOND FLOOR**

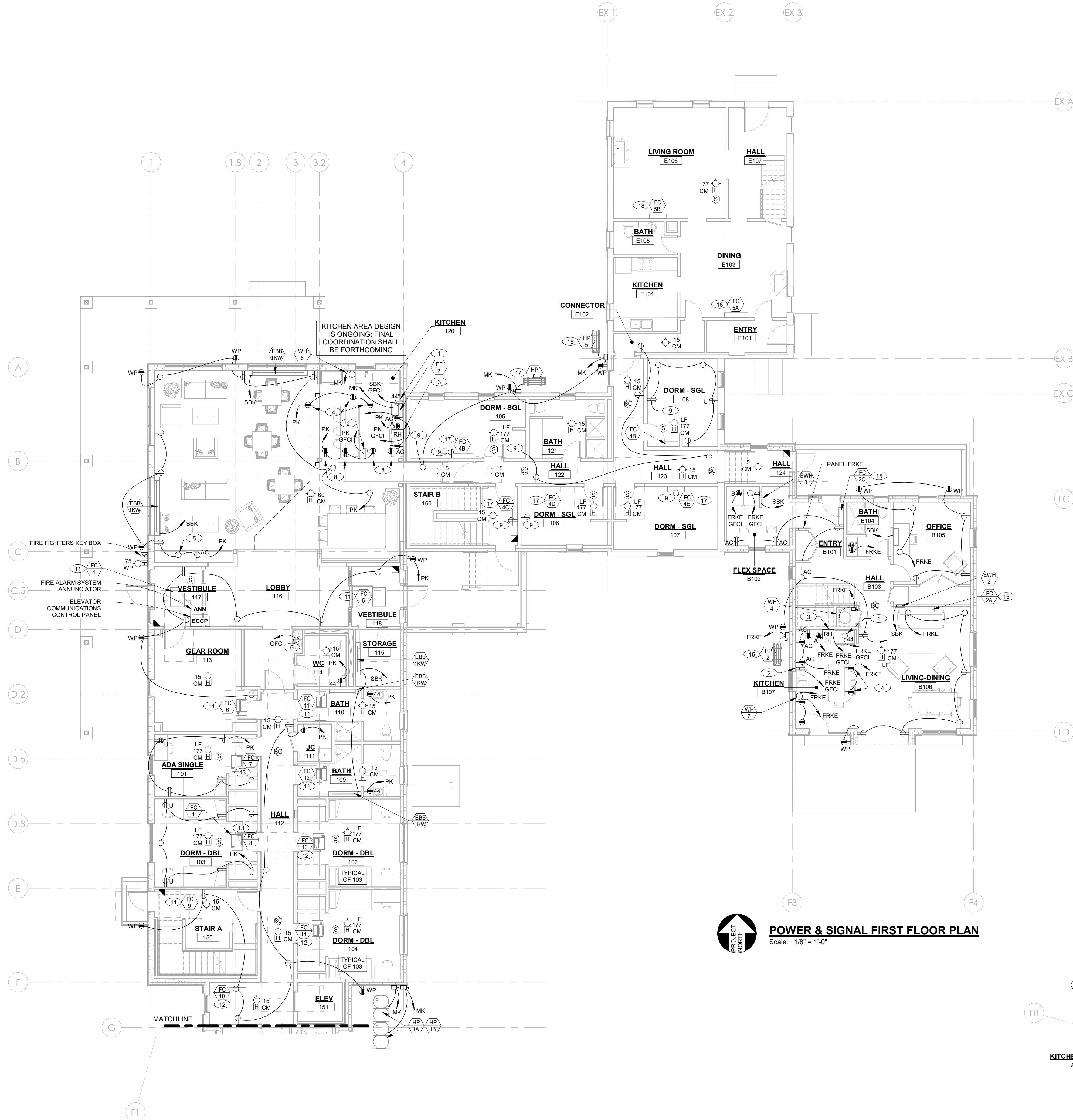
EK8



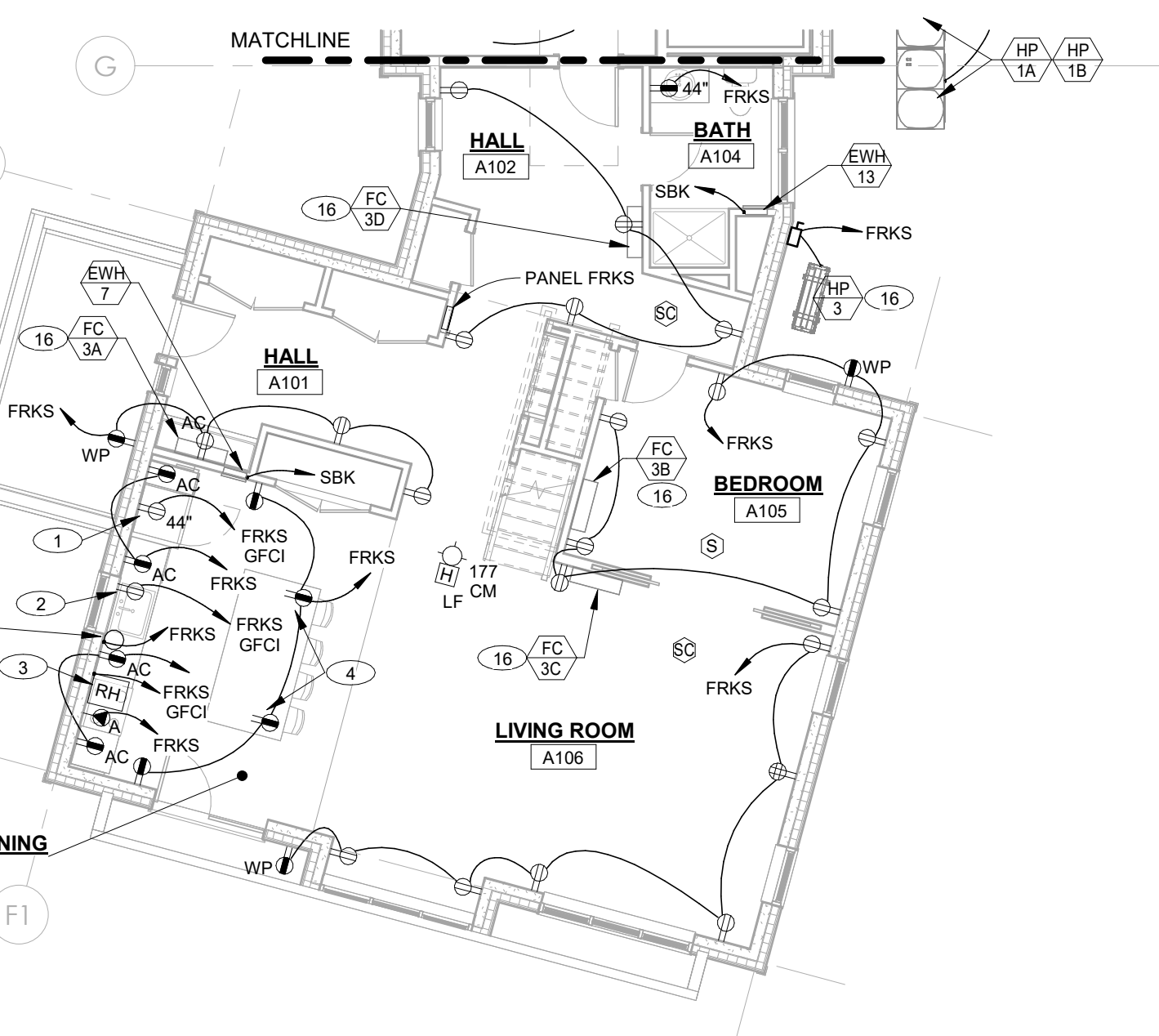
F3 LIGHTING SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"



LIGHTING SECOND FLOOR PLAN SOUTH
Scale: 1/8" = 1'-0"



POWER & SIGNAL FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"



POWER & SIGNAL FIRST FLOOR PLAN SOUTH
Scale: 1/8" = 1'-0"

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 DEDICATED REFRIGERATOR CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER.
 - 2 DEDICATED DISHWASHER CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER. RECEPTACLE SHALL BE ACCESSIBLE THROUGH THE CABINTRY BELOW THE SINK.
 - 3 KITCHEN HOOD POWER CONNECTION ON GFCI PROTECTED CIRCUIT. SAME CIRCUIT SHALL SERVE ANY UNDERCABINET LIGHTING.
 - 4 LOCATE RECEPTACLE IN ISLAND CASEWORK, HORIZONTAL, ~4" BELOW UNDERSIDE OF COUNTER, AS PER NEC REQUIREMENTS. COORDINATE LOCATIONS OF DEVICES AND ROUTING OF WIRING CONCEALED WITHIN CABINTRY WITH CASEWORK INSTALLER.
 - 5 WALL MOUNTED TELEVISION OR MONITOR LOCATION. PROVIDE A FLUSH DEVICE STYLE BOX FOR POWER AND CABLING IN A COMMON, RECESSED MANNER. SEE LOW VOLTAGE DRAWINGS FOR COMMUNICATION DEVICE. BASIS OF DESIGN IS ARLINGTON TVB5613 STEEL MEDIA BOX. MOUNT ~66" AFF. UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT'S ELEVATION DRAWINGS. SUBMIT FLUSH MOUNTED BOX INFORMATION FOR APPROVAL.
 - 6 RECEPTACLE FOR WATER COOLER ON A DEDICATED GFCI PROTECTED CIRCUIT. CONCEAL RECEPTACLE BEHIND ACCESSIBLE ENCLOSURE OF THE WATER COOLER. COORDINATE WITH WATER COOLER INSTALLATION INSTRUCTIONS.
 - 7 (NOT USED)
 - 8 INSTALL RECEPTACLE HORIZONTALLY IN COUNTER BACKSPLASH.
 - 9 CONNECT TO THE LOCAL RECEPTACLE CIRCUIT.
 - 10 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC1, PHE1, PHE2, FC1, FC2, FC3.
 - 11 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC4, FC5, FC6, FC9, FC11, FC12.
 - 12 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC2, FC10, FC13, FC14, FC21, FC22, FC23, FC24, FC25.
 - 13 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC3, FC7, FC8, FC15.
 - 14 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC16, FC17, FC18, FC19, FC20.
 - 15 PROVIDE WIRING FROM HP2 THROUGH ALL OF FC2A THROUGH FC2F.
 - 16 PROVIDE WIRING FROM HP3 THROUGH ALL OF FC3A THROUGH FC3H.
 - 17 PROVIDE WIRING FROM HP4 THROUGH ALL OF FC4A THROUGH FC4L.
 - 18 PROVIDE WIRING FROM HP5 THROUGH ALL OF FC5A THROUGH FC5F.

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

1. THE WORK IN THE SOUTH AND EAST FACILITY RESIDENCES IS AFFECTED BY AN ALTERNATE. REFER TO THE BRIEF ALTERNATE DESCRIPTIONS ON DRAWING E1 AS WELL AS DESCRIPTION OF ALTERNATES IN THE DIVISION 1 PORTION OF THE SPECIFICATION.



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**KUA
KILTON/WELCH
DORMITORIES**

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Meriden, NH 03770

**KILTON
POWER & SIGNAL
FIRST FLOOR**

EK9



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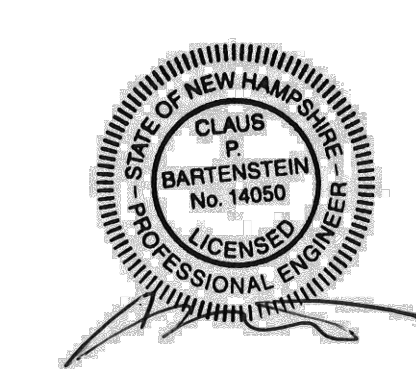
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KUA KILTON/WELCH DORMITORIES

Main Street
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ELECTRICAL PANEL SCHEDULES

EK10

Panel FRKS Single Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, BKR, Phase A, B, C, and Description. Lists items like Lighting, Spare, RCPT - Electric Range, etc.

Panel PK (Left) Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like LTG - Interior, LTG - Exterior, RCPT - Clothes Washer, etc.

Panel MDPK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like Prepared Space, Energy/Power Monitoring System, Panel LSW, etc.

Panel FRKE Single Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, BKR, Phase A, B, C, and Description. Lists items like Lighting, Spare, RCPT - Electric Range, etc.

Panel PK (Right) Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like RCPT - Dorm 101, RCPT - Dorm 102, etc.

Panel MK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like HP1A - Outdoor Heat Pump Unit, HP1B - Outdoor Heat Pump Unit, etc.

Panel SBK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like LTG - Basement, LTG - First Floor, etc.

Panel LSK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like Fire Alarm Control Panel, Spare, etc.

Panel MK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like HP1A - Outdoor Heat Pump Unit, HP1B - Outdoor Heat Pump Unit, etc.

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

PANEL SCHEDULE LEGEND:
G = 5MA GFCI GROUND FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
E = 30MA GFCI EQUIPMENT GROUND FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
A = ARC FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
LO = PROVIDE LOCK OPEN (OFF) CLIP FOR THIS CIRCUIT BREAKER
LC = PROVIDE LOCK CLOSED (ON) CLIP FOR THIS CIRCUIT BREAKER

DRAWING NOTES:

- 1 PROVIDE SERIES COORDINATION WITH DOWNSTREAM PANEL/CIRCUIT BREAKERS TO ALLOW DOWNSTREAM EQUIPMENT TO HAVE 10KAIC RATING.
- 2 PANEL BUSSING IS UPSIZED TO ACCOMMODATE FUTURE PV SOLAR INTERCONNECTION TO ALLOW A MAXIMUM OF 144KW-AC TO BE CONNECTED TO THE LOAD SIDE OF THE UTILITY METER.

MECHANICAL EQUIPMENT SCHEDULE - KILTON							
DESCRIPTION	LOAD	VOLTAGE SYSTEM	CONDUCTORS AND CONDUIT	CIRCUIT PROTECT	CONTACTOR OR STARTER	LOCAL DISCONNECT	REMARKS
HP1A OUTDOOR AIR SOURCE HEAT PUMP UNIT	49 MCA	208V 3ø	(3#10, 1#10G) 1/2" C.	80A3P MOC	INTEGRAL TO EQUIPMENT	100A3P NON-FUSED NEMA 3R	①
HP1B OUTDOOR AIR SOURCE HEAT PUMP UNIT	49 MCA	208V 3ø	(3#10, 1#10G) 1/2" C.	80A3P MOC	INTEGRAL TO EQUIPMENT	100A3P NON-FUSED NEMA 3R	①
BC1 BRANCH BOX CONTROLLER	0.137 AMP	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
PHE-1, PHE-2 PLATE HEAT EXCHANGER	0.9 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC1 FAN COIL UNIT	2.94 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC2, FC3 FAN COIL UNIT	0.28 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC4, 5, 9 FAN COIL UNIT	0.28 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC6, 11, 12 FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
BC2 BRANCH BOX CONTROLLER	0.61 AMP	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC10, FC25 FAN COIL UNIT	0.28 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC13, 14, FC21-24 FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
BC3 BRANCH BOX CONTROLLER	0.61 AMP	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC7, FC8 FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC15 FAN COIL UNIT	2.94 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC16 - FC20 FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
HP2 OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)FACULTY RESIDENCE B	36 MCA	208V 1ø	(2#8, 1#10G) 3/4" C.	40A3P MOC	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	①
FC2A - FC2F FAN COIL UNIT			(3#12, 1#12G) 1/2" C. FROM HP2	15A2P	INTEGRAL TO EQUIPMENT		⑥
HP3 OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)FACULTY RESIDENCE A	36 MCA	208V 1ø	(2#8, 1#10G) 3/4" C.	40A3P MOC	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	①
FC3A - FC3H FAN COIL UNIT			(3#12, 1#12G) 1/2" C. FROM HP3	15A2P	INTEGRAL TO EQUIPMENT		⑥
HP4 OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)DORMITORY	36 MCA	208V 1ø	(2#8, 1#10G) 3/4" C.	40A3P MOC	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	①
FC4A - FC4I FAN COIL UNIT			(3#12, 1#12G) 1/2" C. FROM HP4	15A2P	INTEGRAL TO EQUIPMENT		⑥
HP5 OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)FACULTY RESIDENCE	36 MCA	208V 1ø	(2#8, 1#10G) 3/4" C.	40A3P MOC	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	①
FC5A - FC5F FAN COIL UNIT			(3#12, 1#12G) 1/2" C. FROM HP5	15A2P	INTEGRAL TO EQUIPMENT		⑥
EBB ELECTRIC BASEBOARD RADIATION	250 WATT/F KW VARIES, SEE PLANS	208V 1ø	(2#12, 1#12G) 1/2" C.	20A2P	INTEGRAL TO EQUIPMENT		⑦
EW11, EWH9 ELECTRIC WALL HEATERS	2 KW	208V 1ø	(2#12, 1#12G) 1/2" C.	20A2P	INTEGRAL TO EQUIPMENT		①
EW10, EWH15 ELECTRIC WALL HEATERS	1.5 KW	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		①
HRU1 HEAT RECOVERY UNIT	(2) 1HP	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		①
HRU2, HRU3 HEAT RECOVERY UNIT	3.3 FLA	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		①
HRU ELECTRIC HEAT COIL	2 KW	208V 1ø	(2#12, 1#12G) 1/2" C.	20A2P	INTEGRAL TO EQUIPMENT		⑦
EF1 CEILING EXHAUST FAN	13 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		①
EF2 INLINE EXHAUST FAN	188 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		⑦
P1, P2 CIRCULATOR PUMP	606 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT	MOTOR SWITCH	①
WH3 ELECTRIC WATER HEATER	4500 WATT	208V 1ø	(2#12, 1#12G) 1/2" C.	30A2P	INTEGRAL TO EQUIPMENT	30A2P NON-FUSED NEMA 1	①
WH4, WH5 ELECTRIC WATER HEATER	4500 WATT	208V 1ø	(2#12, 1#12G) 1/2" C.	30A2P	INTEGRAL TO EQUIPMENT	30A2P NON-FUSED NEMA 1	①
WH 6,7,8 POINT OF USE ELECTRIC WATER HEATER	1650 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		⑦
ABBREVIATIONS FLA = FULL LOAD AMPS MCA = MINIMUM CIRCUIT AMPS HP = MOTOR HORSEPOWER MOC = MAXIMUM OVER-CURRENT PROTECTION KW = KILOWATTS							

MECHANICAL EQUIPMENT SCHEDULE - WELCH							
DESCRIPTION	LOAD	VOLTAGE SYSTEM	CONDUCTORS AND CONDUIT	CIRCUIT PROTECT	CONTACTOR OR STARTER	LOCAL DISCONNECT	REMARKS
HP1A OUTDOOR AIR SOURCE HEAT PUMP UNIT	49 MCA	208V 3ø	(3#10, 1#10G) 1/2" C.	80A3P MOC	INTEGRAL TO EQUIPMENT	100A3P NON-FUSED NEMA 3R	①
HP1B OUTDOOR AIR SOURCE HEAT PUMP UNIT	49 MCA	208V 3ø	(3#10, 1#10G) 1/2" C.	80A3P MOC	INTEGRAL TO EQUIPMENT	100A3P NON-FUSED NEMA 3R	①
BC1 - BC3 BRANCH BOX CONTROLLER	FRACTIONAL	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC1 FAN COIL UNIT	2.94 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC2 FAN COIL UNIT	0.24 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC7 - FC12 FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
FC13 - FC19 FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
PHE-1, PHE-2 PLATE HEAT EXCHANGER	0.9 MCA	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		⑦
GF-1, GF-2 GLYCOL FEEDERS	50 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT	CORD/PLUG NEMA 5-20	①
HP2 OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)FACULTY RESIDENCE	36 MCA	208V 1ø	(2#8, 1#10G) 3/4" C.	40A3P MOC	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	①
FC2A - FC2G FAN COIL UNIT			(3#12, 1#12G) 1/2" C. FROM HP2	15A2P	INTEGRAL TO EQUIPMENT		⑥
HP3 OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)FACULTY RESIDENCE A	36 MCA	208V 1ø	(2#8, 1#10G) 3/4" C.	40A3P MOC	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	①
FC3A - FC3G FAN COIL UNIT			(3#12, 1#12G) 1/2" C. FROM HP2	15A2P	INTEGRAL TO EQUIPMENT		⑥
EBB ELECTRIC BASEBOARD RADIATION	250 WATT/F KW VARIES, SEE PLANS	208V 1ø	(2#12, 1#12G) 1/2" C.	20A2P	INTEGRAL TO EQUIPMENT		⑦
EW11, EWH10 ELECTRIC WALL HEATERS	2 KW	208V 1ø	(2#12, 1#12G) 1/2" C.	20A2P	INTEGRAL TO EQUIPMENT		①
EW11, EWH13 ELECTRIC WALL HEATERS	1.5 KW	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		①
HRU1 HEAT RECOVERY UNIT	(2) 1HP	208V 1ø	(2#12, 1#12G) 1/2" C.	15A2P	INTEGRAL TO EQUIPMENT		①
HRU2, HRU3 HEAT RECOVERY UNIT	3.3 FLA	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		①
HRU ELECTRIC HEAT COIL	2 KW	208V 1ø	(2#12, 1#12G) 1/2" C.	20A2P	INTEGRAL TO EQUIPMENT		⑦
EF1 CEILING EXHAUST FAN	13 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		①
EF2 INLINE EXHAUST FAN	188 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		⑦
P1, P2 CIRCULATOR PUMP	606 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT	MOTOR SWITCH	①
WH3 ELECTRIC WATER HEATER	4500 WATT	208V 1ø	(2#12, 1#12G) 1/2" C.	30A2P	INTEGRAL TO EQUIPMENT	30A2P NON-FUSED NEMA 1	①
WH4, WH7 ELECTRIC WATER HEATER	4500 WATT	208V 1ø	(2#12, 1#12G) 1/2" C.	30A2P	INTEGRAL TO EQUIPMENT	30A2P NON-FUSED NEMA 1	①
WH5, WH6 POINT OF USE ELECTRIC WATER HEATER	1650 WATT	120V 1ø	(2#12, 1#12G) 1/2" C.	20A1P	INTEGRAL TO EQUIPMENT		⑦
ABBREVIATIONS FLA = FULL LOAD AMPS MCA = MINIMUM CIRCUIT AMPS HP = MOTOR HORSEPOWER MOC = MAXIMUM OVER-CURRENT PROTECTION KW = KILOWATTS							

BUILDING EQUIPMENT SCHEDULE							
DESCRIPTION	LOAD	VOLTAGE SYSTEM	CONDUCTORS AND CONDUIT	CIRCUIT PROTECT	CONTACTOR OR STARTER	LOCAL DISCONNECT	REMARKS
ELV1 ELEVATOR (LIFT)	8.5 KW	208V 3ø	(3#10, 10G) 1/2" C.	30A3P	INTEGRAL TO ELEVATOR CONTROLLER	INTEGRAL TO ELEVATOR CONTROLLER	① ②
TYPICAL ELECTRIC COOKING RANGE RECEPTACLE	8 KW	208V 1ø	(2#6, 1#6N, 1#6G) AL SE CABLE	50A2P	INTEGRAL TO RANGE	CORD/PLUG CONNECTION NEMA 14-50	① ③ ⑤
TYPICAL ELECTRIC CLOTHES DRYER RECEPTACLE	5 KW	208V 1ø	(2#10, 1#10N, 1#10G) AL SE CABLE	30A2P	INTEGRAL TO DRYER	CORD/PLUG CONNECTION NEMA 14-30	① ③
EV1 LEVEL 2 SINGLE PORT ELECTRIC VEHICLE CHARGING STATION	7.2 KW	208V 1ø	(2#6, 1#10G) 1" C.	40A2P	INTEGRAL TO VEHICLE	INTEGRAL TO CHARGING STATION	① ⑥
ABBREVIATIONS FLA = FULL LOAD AMPS MCA = MINIMUM CIRCUIT AMPS HP = MOTOR HORSEPOWER MOC = MAXIMUM OVER-CURRENT PROTECTION KW = KILOWATTS							

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- ELECTRICAL CONNECTION INFORMATION IS BASED UPON THE SPECIFIED "BASIS OF DESIGN" EQUIPMENT. VERIFY ALL CONNECTION REQUIREMENTS WITH THE APPROVED EQUIPMENT SUBMITTALS AND/OR SHOP DRAWINGS PRIOR TO ANY ROUGH-IN.
- ELEVATOR INFORMATION IS BASED UPON BASIS OF DESIGN PRODUCT SAVARIA ORION SVL COMMERCIAL ELEVATOR. VERIFY ELEVATOR CHARACTERISTICS WITH THE APPROVED SHOP DRAWING PRIOR TO WORK.
- PROVIDE MATCHING CORD/CAP ASSEMBLY AND INSTALL ON THE APPLIANCE.
- PROVIDE LEVEL 2 ELECTRICAL VEHICLE CHARGING STATION. BASIS OF DESIGN IS CHARGEPOINT CT4011 SINGLE PORT BOLLARD MOUNT, 7.2KW OUTPUT POWER WITH 18" CABLE WITH SAE J1772 CHARGE CONNECTOR WITH CHARGEPOINT WIRELESS COMMUNICATIONS.

- PROVIDE INTEGRAL GATEWAY MODEM (USA) GW1. NO CELLULAR SERVICE AT THE CAMPUS; MODEM WILL HAVE TO CONNECT THROUGH WIFI OR HARDWIRED CAT6 CONNECTION.
- INSTALL ON CONCRETE BASE. REFER TO LIGHT POLE CONCRETE BASE DETAIL, EV CHARGING STATION SIMILAR EXCEPT ONLY 6" EXPOSED ABOVE FINISHED GRADE.
- PROVIDE BOLLARD CONCRETE MOUNTING KIT CT4001-COM
- PROVIDE SOFTWARE AND SERVICE OPTIONS:
 - CHARGEPOINT COMMERCIAL SERVICE PLAN CPCLD-COMMERCIAL-(3 YEARS)
 - CHARGEPOINT ASSURE CT4000-ASSURE-(3 YEARS)
 - STATION ACTIVATION AND CONFIGURATION CP-SUPPORT-ACTIVE

ALTERNATIVE PRODUCTS AND SERVICE PLANS, SUCH AS BREEZEV, MAY BE CONSIDERED BY KUA. ULTIMATELY KUA WILL HAVE FINAL SAY ON PRODUCT/SERVICE TO BE PROVIDED.

- ROUTE CIRCUIT WIRING VIA EXHAUST HOOD FIRE PROTECTION CONTROL PANEL TO DE-ENERGIZE RANGE UPON ACTIVATION OF DRY CHEMICAL FIRE PROTECTION SYSTEM.
- FAN COIL UNIT POWERED FROM HEAT PUMP UNIT IS AN APPLIANCE SYSTEM. LOCKING DISCONNECT AT HEAT PUMP SERVES AS A LOCKABLE DISCONNECT FOR FAN COIL UNIT.
- LOCAL DISCONNECT IS NOT REQUIRED AS THE BRANCH CIRCUIT OVERCURRENT DEVICE (CIRCUIT BREAKER) SHALL BE PROVIDED WITH A PERMANENT PADLOCK CLIP TO ALLOW LOCKING OF THE CIRCUIT BREAKER IN THE OPEN (OFF) POSITION (NEC 422.31).



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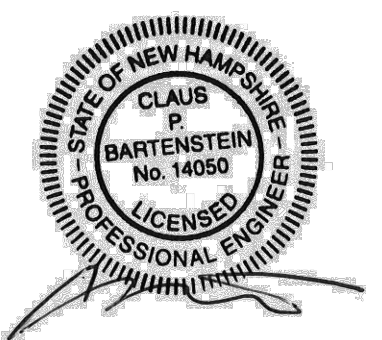
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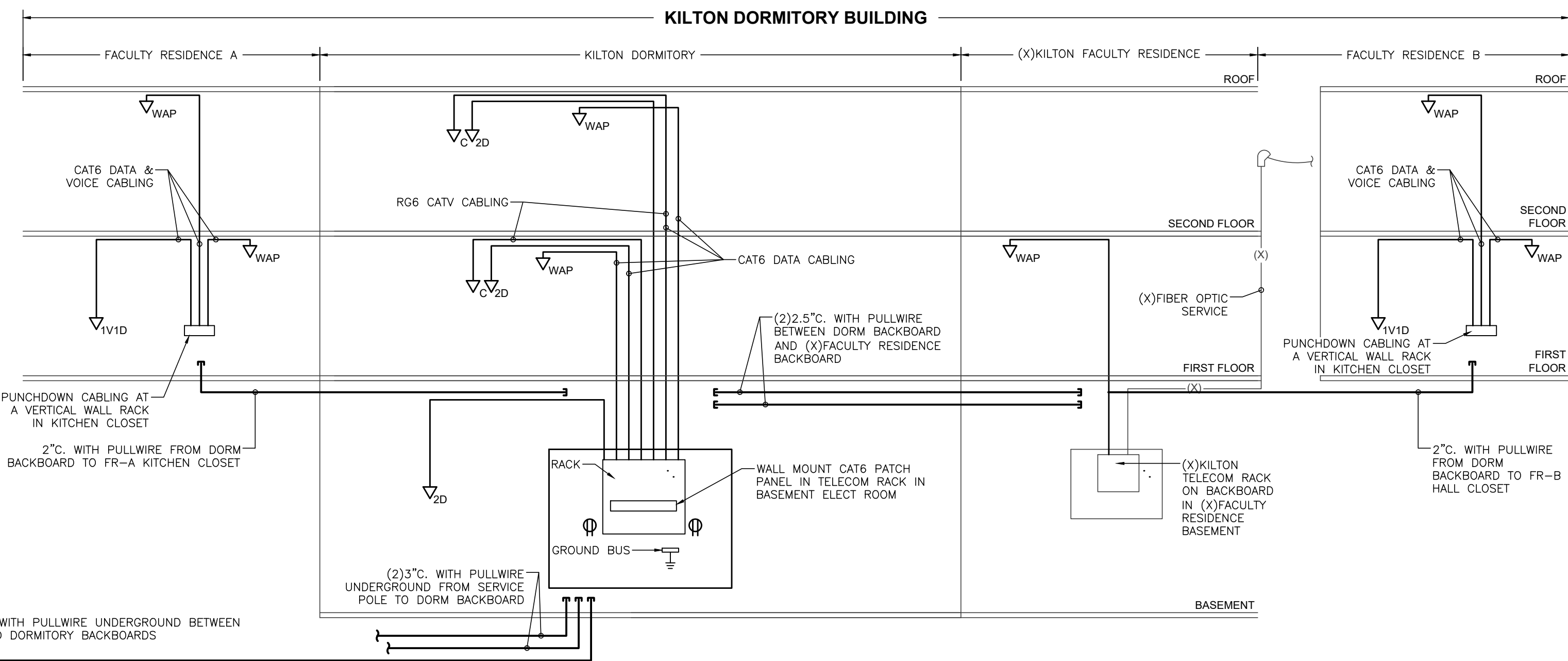
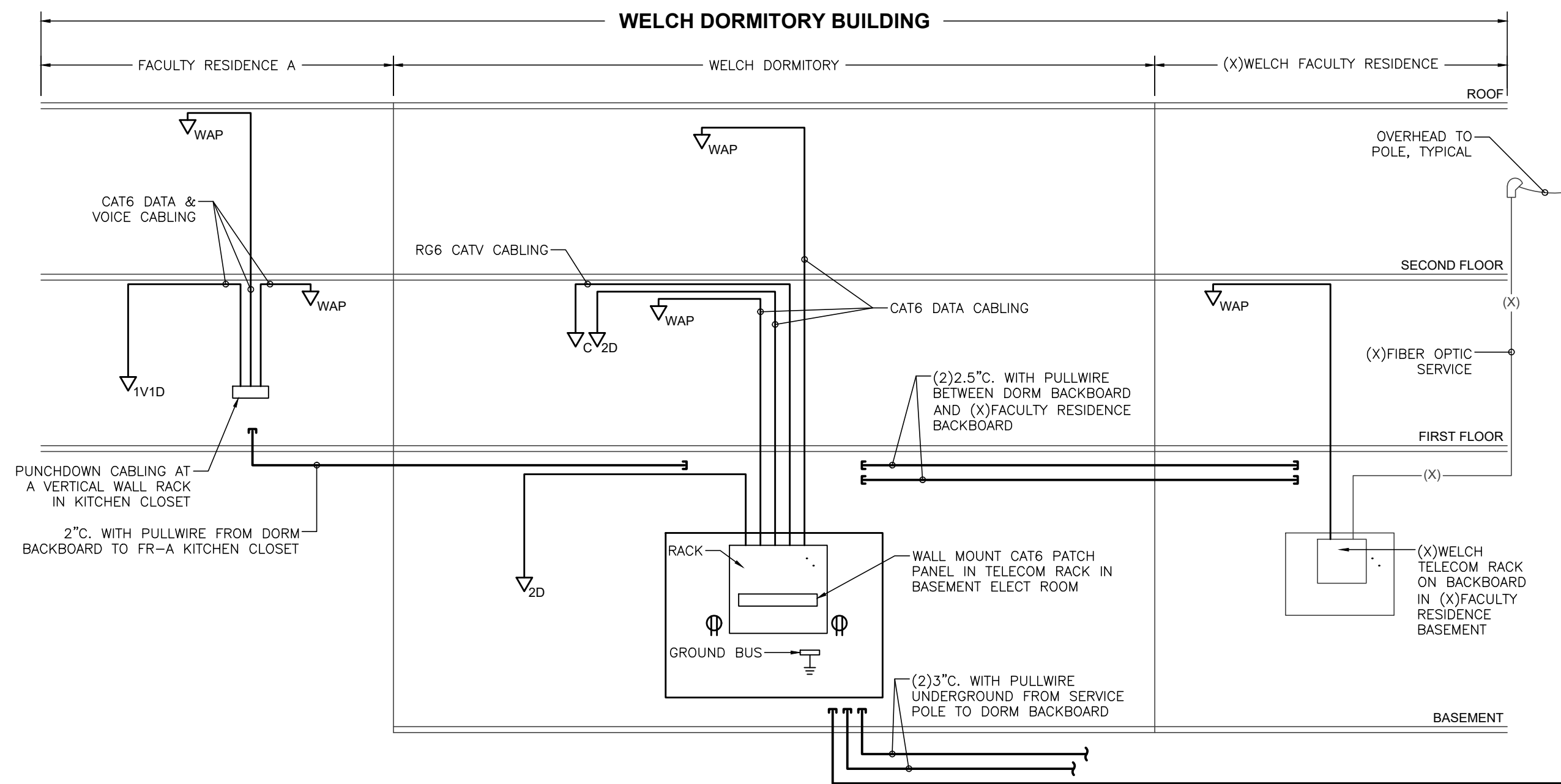
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ELECTRICAL
SCHEDULES

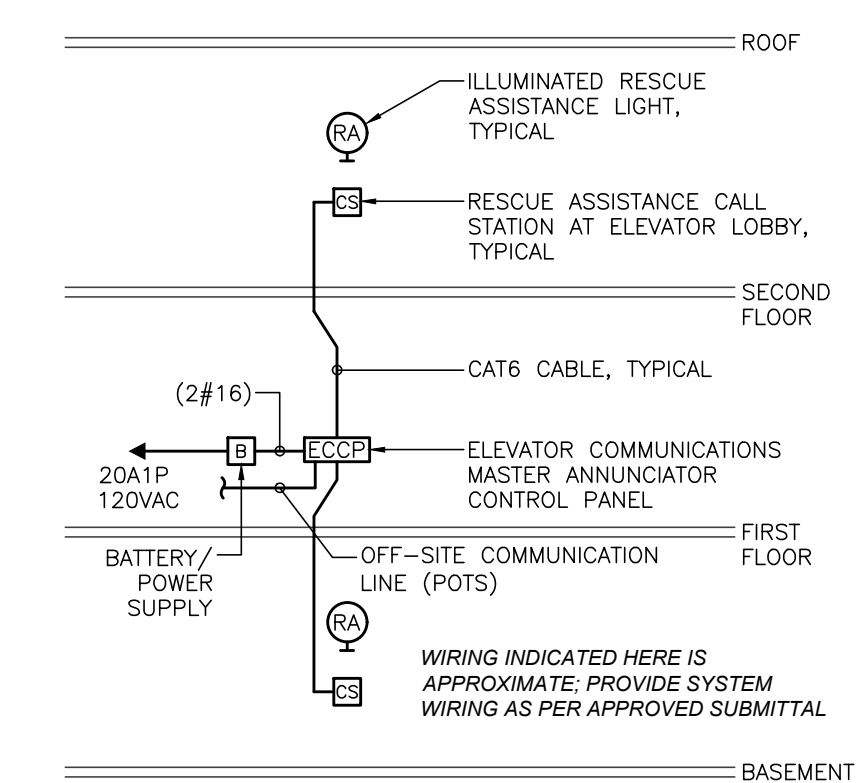
E16



TELECOMMUNICATIONS RISER DIAGRAM
NOT TO SCALE

TELECOMMUNICATIONS SYSTEM NOTES:

- PROVIDE A COMPLETE SYSTEM OF CABLING FROM THE SWITCHES IN THE WALL RACKS IN THE ELECT ROOM TO WALL DEVICES. **ALL CABLING SYSTEMS SHALL BE PROVIDED COMPLETE FROM THE PATCH PANELS THROUGH TO WALL JACKS LOCATIONS TO INCLUDE LABELING AND TESTING.**
 - THIS CONTRACTOR SHALL PROVIDE RACKS, POWER SUPPLIES, PATCH PANELS, CABLING AND WALL JACKS AS PER SPECIFICATION.
 - COORDINATE WITH OWNER'S INFORMATION TECHNOLOGY PERSONNEL AND THEIR COMMUNICATIONS UTILITY SERVICE PROVIDERS AS THEY INSTALL THEIR SERVICE ENTRANCE CABLING TO THE BUILDING AND MAKE CONNECTIONS TO BUILDING SYSTEMS TO ENSURE THAT THERE IS NO GAPS IN RESPONSIBILITIES, SUCH THAT WHEN THE BUILDING IS COMPLETE, SYSTEMS ARE COMPLETE AND OPERATIONAL.
 - THIS CONTRACTOR SHALL PROVIDE (FURNISH AND INSTALL) ALL PATHWAYS (CONDUIT, SLEEVES, J-HOOKS, BOXES) AS SPECIFIED.
 - UTILIZE J-HOOKS IN THE CEILING FOR ROUTING CABLING; UTILIZE VELCRO STRAPS TO SECURE CABLING.
- PROVIDE CONDUITS WITH PULLWIRE FOR TELECOM SERVICES AND FOR OWNER CABLING BETWEEN BUILDINGS, AS INDICATED.
 - ALL CONDUITS SHALL HAVE PULLWIRE.
 - CONDUITS STUBBED UP THROUGH FLOOR SHALL TERMINATE ~4 TO 6" ABOVE FINISHED FLOOR. ALL CONDUITS STUBBED UP FROM BELOW GRADE, BOTH THOSE UTILIZED AND WITH PULLWIRE FOR FUTURE, SHALL BE SEALED WITH WATER TIGHT, REMOVABLE SEALANT UPON COMPLETION OF PROJECT.
 - PROVIDE BUSHING ON THE OPEN ENDS OF ALL CONDUITS.
- PROVIDE CABLING AS FOLLOWS:
 - CATV JACK SHALL HAVE (1) RG6 CABLE, BLACK
 - VOICE (TELEPHONE) JACK SHALL HAVE (1) CAT6 CABLE (BLUE)
 - DATA (ETHERNET/INTERET) JACK SHALL HAVE CAT6 CABLES, QUANTITY AS INDICATED (BLUE)
 - WAP (WIRELESS ACCESS POINT) JACK SHALL HAVE (2) CAT6 CABLES (BLUE)
- WALL RACK SHALL BE MOUNTED ON A 3/4" FIRE CODE PLYWOOD BACKBOARD, 8" WIDE, MOUNTED WITH 8" DIMENSION HORIZONTAL WITH TOP AT 6" AFF, PAINTED LIGHT GRAY.
 - PROVIDE ELECTRICAL SERVICE GROUND ELECTRODE WITH #6 AWG COPPER CONDUCTOR. BUS SHALL BE FOUR SCREW TERMINAL BRASS CONSTRUCTION, ARLINGTON #GBBS OR APPROVED EQUAL. PROVIDE CONNECTION TO EQUIPMENT RACK. #6 AWG COPPER CONDUCTOR
 - PROVIDE POWER STRIP MOUNTED VERTICALLY ON RACK.
 - PROVIDE THREE 20A DUPLEX RECEPTACLES ON EITHER SIDE AND MIDDLE OF THE BACKBOARD, 48" AFF



ELEVATOR COMMUNICATIONS SYSTEM WIRING DIAGRAM
NOT TO SCALE

- NOTES:**
- BASIS OF DESIGN IS THE CORNELL COMMUNICATIONS 4800 SERIES
 - CORNELL A-4800IP MASTER UNIT
 - CORNELL A-4800IP-MB UNINTERRUPTIBLE POWER SUPPLY
 - CORNELL A-4800IPB BASE STATION
 - CORNELL A-4800VIP FLUSH MOUNT INDOOR CALL STATION
 - CORNELL SN-P48SL SELF ADHESIVE SIGN
 - CORNELL SN-LM42S ILLUMINATED SIGN (SINGLE SIGN)
 - CORNELL SN-LM42D ILLUMINATED SIGN (DOUBLE SIGN)
 - PROVIDE 20A 120VAC CIRCUIT FROM HOUSE PANEL PSB WITH LOCK-ON CLIP. (2#12, 1#12G)
 - PROVIDE CONNECTION TO TELEPHONE LINE TO ALLOW SYSTEM TO CALL OFF SITE TO CENTRALLY MANNED SYSTEM IN THE EVENT NO ONE IS AT THE MAIN CONTROL PANEL.
 - MOUNT CONTROL PANEL AND CALL STATIONS SUCH THAT THE TOP PUSHBUTTON IS NO HIGHER THAN 48" AFF.
 - COORDINATE LOCATIONS FOR CALL STATIONS AND CONTROL PANEL WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN.
 - PROVIDE A RESCUE ASSISTANCE CALL SYSTEM, INCLUDING POWER SUPPLIES, UPS, BATTERIES, SIGNAGE AND ALL NECESSARY APPURTANCES FOR A COMPLETE AND OPERATIONAL SYSTEM. TEST SYSTEM TO ENSURE OPERATION AND REPAIR OR REPLACE ANY EQUIPMENT THAT IS NOT OPERATIONAL OR DEFECTIVE. INSTALL SYSTEM AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 - SUBMIT PRODUCT INFORMATION FOR APPROVAL. INCLUDE ALL COMPONENTS AS WELL AS WIRING DIAGRAM INCLUDING IDENTIFICATION OF ALL CABLING TYPES.

GENERAL NOTES:

- ACCESS CONTROL DEVICES ARE AS PER GRIFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, DATED 05/02/2023. CABLING, RACEWAYS, BOXES AND 120VAC POWER BY THIS CONTRACTOR. GRIFIN TO PROVIDE ALL ACCESS CONTROL AND SECURITY EQUIPMENT AS WELL AS PROGRAMMING OF THE SYSTEM AND TRAINING OF OWNER. MEET WITH GRIFIN ON SITE TO REVIEW SYSTEM PRIOR TO ANY INSTALLATION OF CABLING, BOXES AND PATHWAYS TO ENSURE PROPER COORDINATION.
- TELECOMMUNICATIONS (VOICE, DATA) ARE AS PER KUA TECHNOLOGY DEPARTMENT. MEET WITH KUA TECHNOLOGY PERSONNEL PRIOR TO ANY WORK TO REVIEW ALL DETAILS OF TELECOM INSTALLATION.

LOW VOLTAGE LEGEND:

- ▽_{VID} DATA (LAN) DEVICE OUTLET, NUMBER INDICATES NUMBER OF CABLES; 1VID = ONE VOICE, ONE DATA JACK/CABLE
- ▽_C CATV (CABLE TELEVISION) DEVICE OUTLET, (1)RG6 CABLE
- ▽_{WAP} CEILING MOUNTED DATA (LAN) WIRELESS ACCESS POINT, NUMBER INDICATES NUMBER OF CABLES; (2)CAT6 CABLES
- ECCP ELEVATOR COMMUNICATIONS MASTER ANNUNCIATOR CONTROL PANEL
- ES ELEVATOR COMMUNICATIONS CALL STATION
- UON SECURITY CAMERA LOCATION, CEILING MOUNTED, UON
- ES ACCESS CONTROL SYSTEM CARD READER
- MPAP MONITOR POINT ACCESS POINT
- AC ABOVE COUNTER
- CM CEILING MOUNTED
- TYP TYPICAL
- NTS NOT TO SCALE
- UON UNLESS OTHERWISE NOTED
- (X) EXISTING, TO REMAIN



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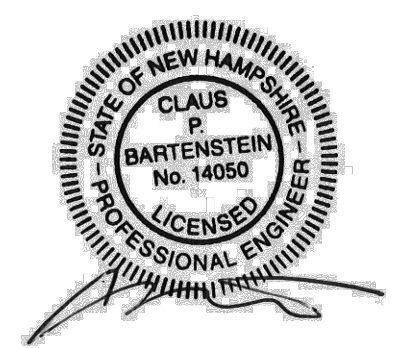
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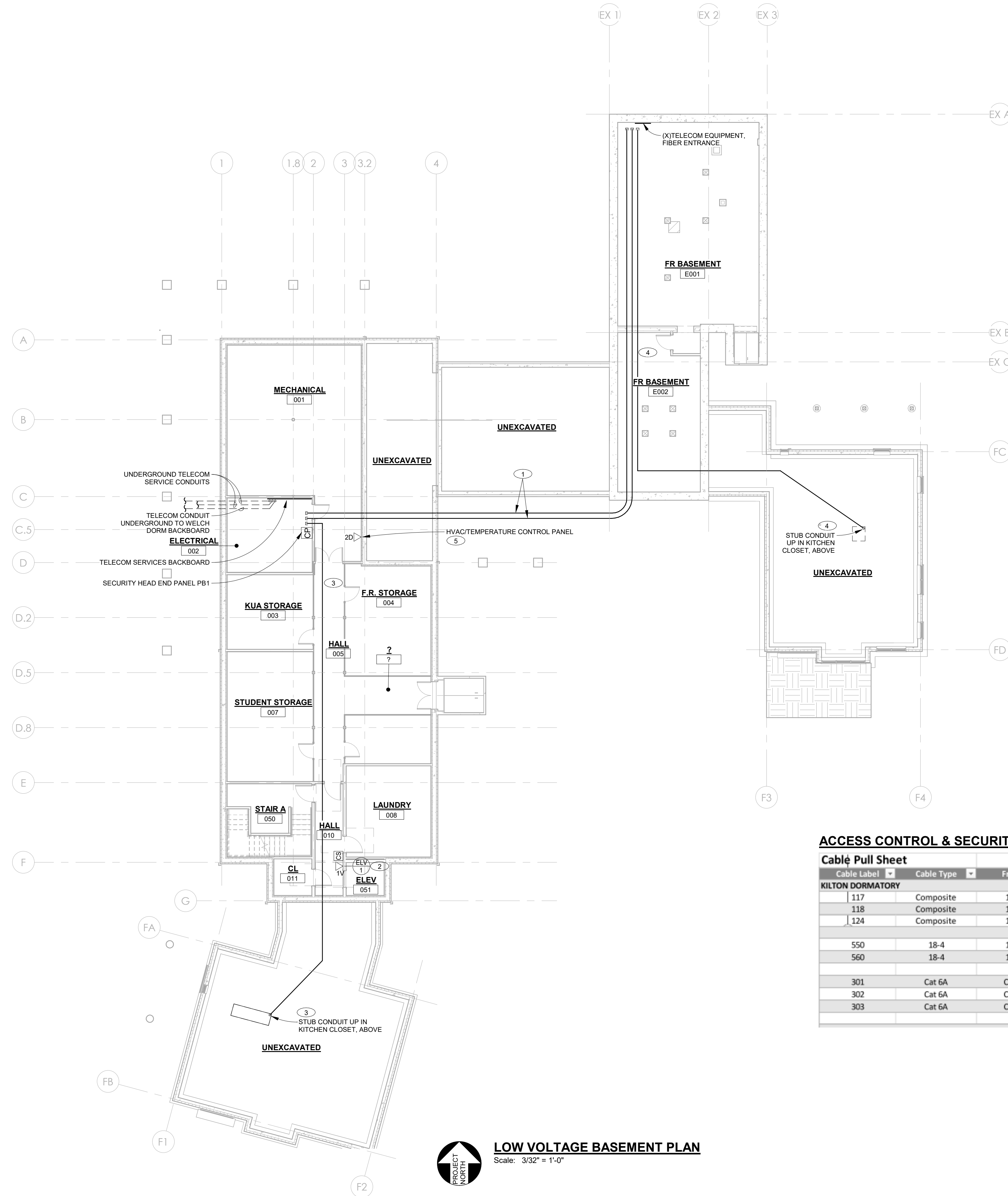


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LOW VOLTAGE NOTES & DIAGRAM

LV1



GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

1. ACCESS CONTROL DEVICES ARE AS PER GRIFFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, DATED 05/02/2023. CABLING, RACEWAYS, BOXES AND 120VAC POWER BY THIS CONTRACTOR. GRIFFIN TO PROVIDE ALL ACCESS CONTROL AND SECURITY EQUIPMENT AS WELL AS PROGRAMMING OF THE SYSTEM AND TRAINING OF OWNER. MEET WITH GRIFFIN ON SITE TO REVIEW SYSTEM PRIOR TO ANY INSTALLATION OF CABLING, BOXES AND PATHWAYS TO ENSURE PROPER COORDINATION.
2. TELECOMMUNICATIONS (VOICE, DATA) ARE AS PER KUA TECHNOLOGY DEPARTMENT. MEET WITH KUA TECHNOLOGY PERSONNEL PRIOR TO ANY WORK TO REVIEW ALL DETAILS OF TELECOM INSTALLATION.

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

1. PROVIDE (2) 2" SPARE CONDUITS WITH PULLWIRE PARALLEL THROUGH THE UNEXCAVATED AREA, UNDERGROUND AND INTO THE EXISTING BASEMENT FOR LOW VOLTAGE CABLING USE.
2. ELEVATOR CONTROLLER IS INTEGRAL TO THE ELEVATOR CABLING INTO THE CORRIDOR. PROVIDE A CAT6 POTS LINE FOR CAB TELEPHONE.
3. PROVIDE (1) 2" CONDUIT WITH PULLWIRE TO SERVE FACULTY RESIDENCE A.
4. PROVIDE (1) 2" CONDUIT WITH PULLWIRE TO SERVE FACULTY RESIDENCE B.
5. PROVIDE DATA JACKS ADJACENT TO HVAC/TEMPERATURE CONTROL PANEL. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

ACCESS CONTROL & SECURITY:

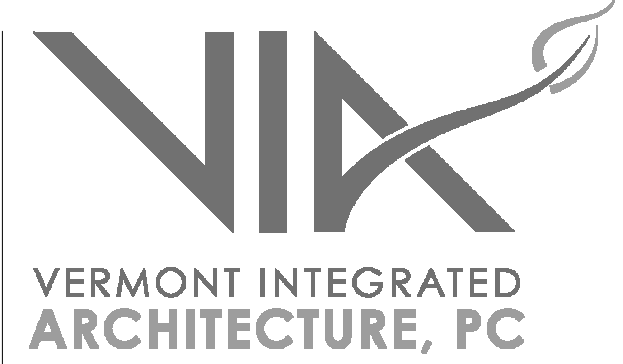
Cable Pull Sheet

Cable Label	Cable Type	From	End Location	De	Notes
KILTON DORMATORY					
117	Composite	117	PB.1		Card Access Door
118	Composite	118	PB.1		Card Access Door
124	Composite	124	PB.1		Card Access Door
550	18-4	150	PB.1		Monitor Point Door
560	18-4	160	PB.1		Monitor Point Door
301	Cat 6A	C-01	PB.1		2 MP Camera
302	Cat 6A	C-02	PB.1		2 MP Camera
303	Cat 6A	C0-3	PB.1		2 MP Camera



LOW VOLTAGE BASEMENT PLAN

Scale: 3/32" = 1'-0"



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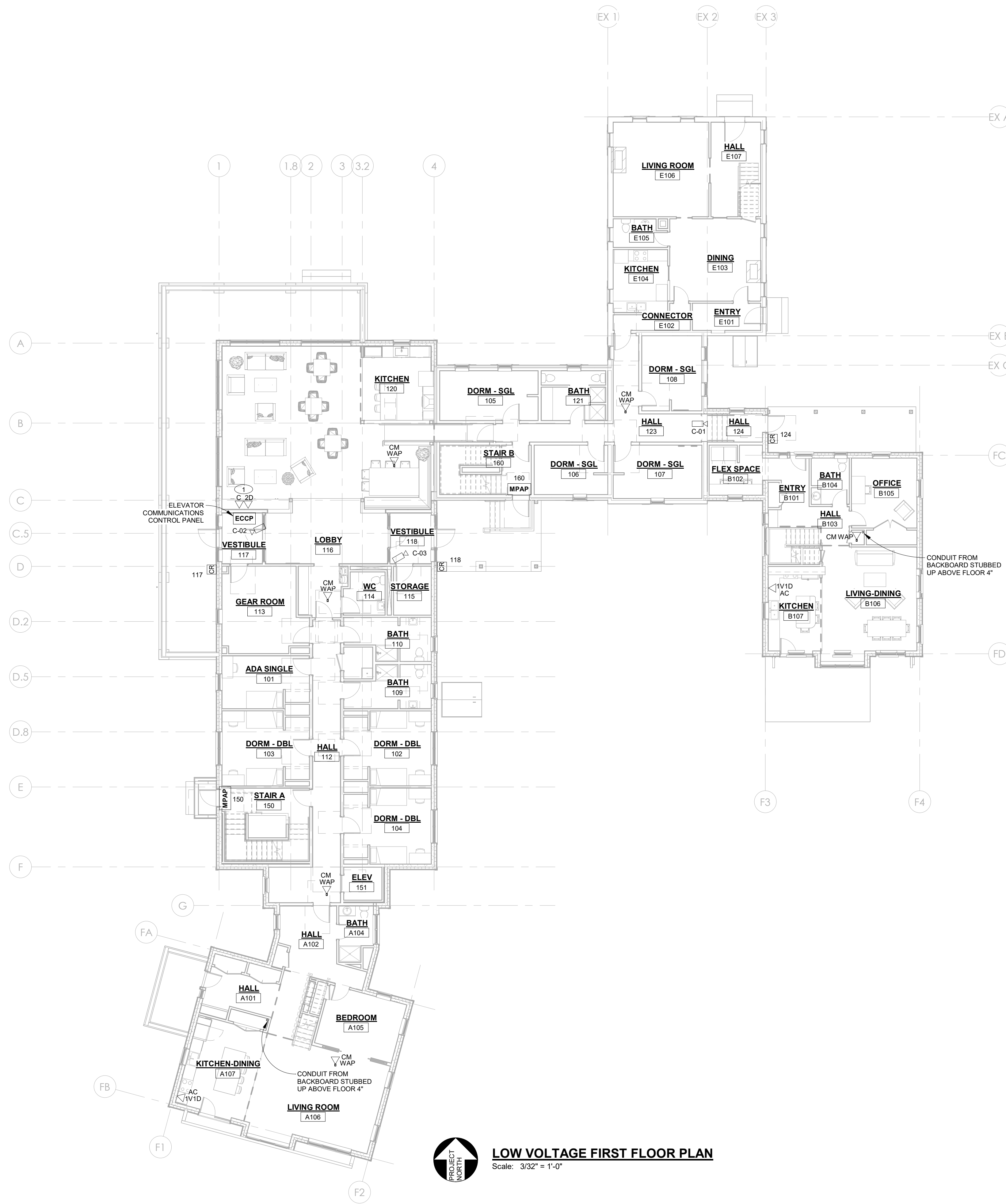
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON
LOW VOLTAGE
BASEMENT**

LVK2



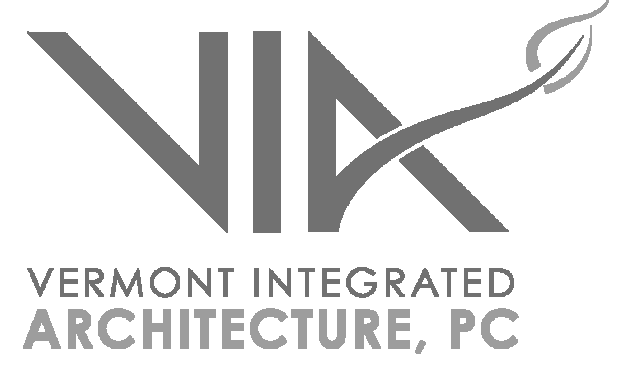
LOW VOLTAGE FIRST FLOOR PLAN
Scale: 3/32" = 1'-0"

GENERAL NOTES:

- REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.
- ACCESS CONTROL DEVICES ARE AS PER GRIFFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, DATED 05/02/2023. CABLING, RACEWAYS, BOXES AND 120VAC POWER BY THIS CONTRACTOR. GRIFFIN TO PROVIDE ALL ACCESS CONTROL AND SECURITY EQUIPMENT AS WELL AS PROGRAMMING OF THE SYSTEM AND TRAINING OF OWNER. MEET WITH GRIFFIN ON SITE TO REVIEW SYSTEM PRIOR TO ANY INSTALLATION OF CABLING, BOXES AND PATHWAYS TO ENSURE PROPER COORDINATION.
 - TELECOMMUNICATIONS (VOICE, DATA) ARE AS PER KUA TECHNOLOGY DEPARTMENT. MEET WITH KUA TECHNOLOGY PERSONNEL PRIOR TO ANY WORK TO REVIEW ALL DETAILS OF TELECOM INSTALLATION.

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- WALL MOUNTED TELEVISION OR MONITOR LOCATION. PROVIDE CAT6 AND CATV CABLING IN BOX (BOX SPECIFIED ON POWER DRAWINGS). -66" AFF.



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Drawn: ESVT
Checked: CPB

REVISIONS:



PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON
LOW VOLTAGE
FIRST FLOOR**

LVK3



LOW VOLTAGE SECOND FLOOR PLAN
Scale: 3/32" = 1'-0"

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

1. ACCESS CONTROL DEVICES ARE AS PER GRIFFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, DATED 05/02/2023. CABLING, RACEWAYS, BOXES AND 120VAC POWER BY THIS CONTRACTOR. GRIFFIN TO PROVIDE ALL ACCESS CONTROL AND SECURITY EQUIPMENT AS WELL AS PROGRAMMING OF THE SYSTEM AND TRAINING OF OWNER. MEET WITH GRIFFIN ON SITE TO REVIEW SYSTEM PRIOR TO ANY INSTALLATION OF CABLING, BOXES AND PATHWAYS TO ENSURE PROPER COORDINATION.
2. TELECOMMUNICATIONS (VOICE, DATA) ARE AS PER KUA TECHNOLOGY DEPARTMENT. MEET WITH KUA TECHNOLOGY PERSONNEL PRIOR TO ANY WORK TO REVIEW ALL DETAILS OF TELECOM INSTALLATION.

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- 1 WALL MOUNTED TELEVISION OR MONITOR LOCATION. PROVIDE CAT6 AND CATV CABLING IN BOX (BOX SPECIFIED ON POWER DRAWINGS), ~66" AFF.



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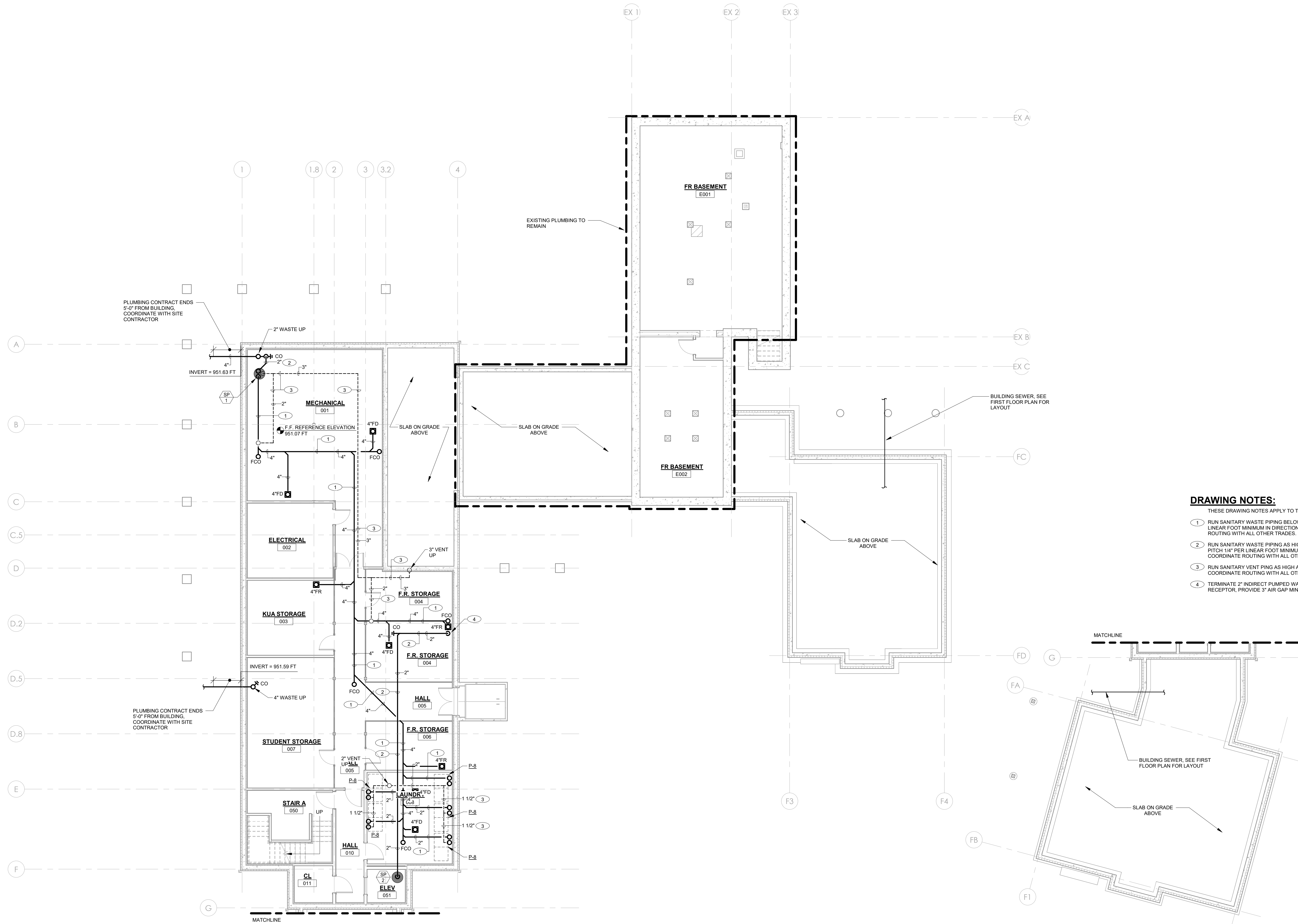
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON
LOW VOLTAGE
SECOND FLOOR**

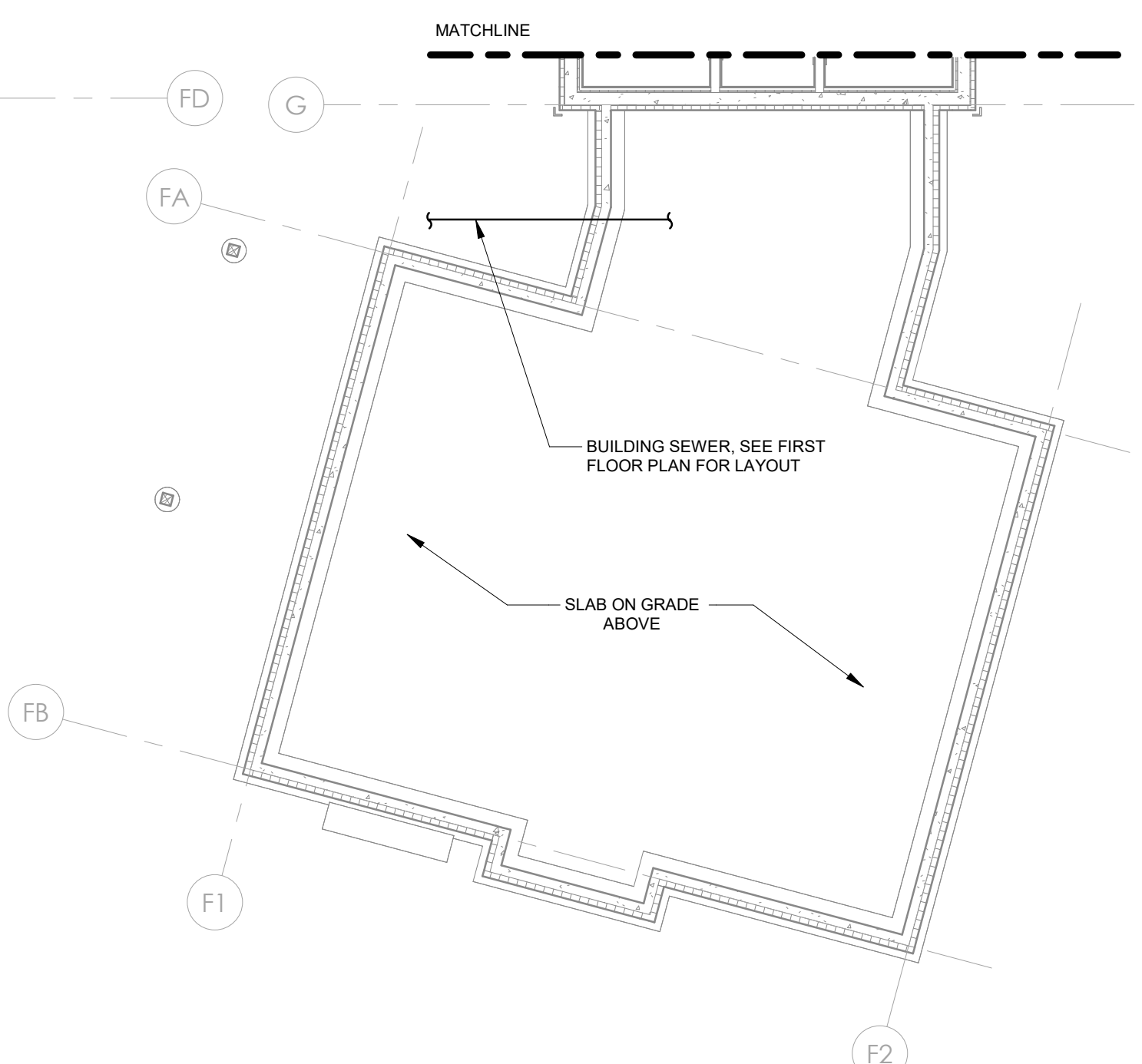
LVK4



DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- 1 RUN SANITARY WASTE PIPING BELOW SLAB, PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.
- 2 RUN SANITARY WASTE PIPING AS HIGH AS POSSIBLE EXPOSED, PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.
- 3 RUN SANITARY VENT PING AS HIGH AS POSSIBLE EXPOSED, COORDINATE ROUTING WITH ALL OTHER TRADES.
- 4 TERMINATE 2" INDIRECT PUMPED WASTE LINE FROM AT FLOOR RECEPTOR, PROVIDE 3" AIR GAP MINIMUM.



PLUMBING WASTE & VENT BASEMENT PLAN
Scale: 1/8" = 1'-0"

PLUMBING WASTE & VENT BASEMENT PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



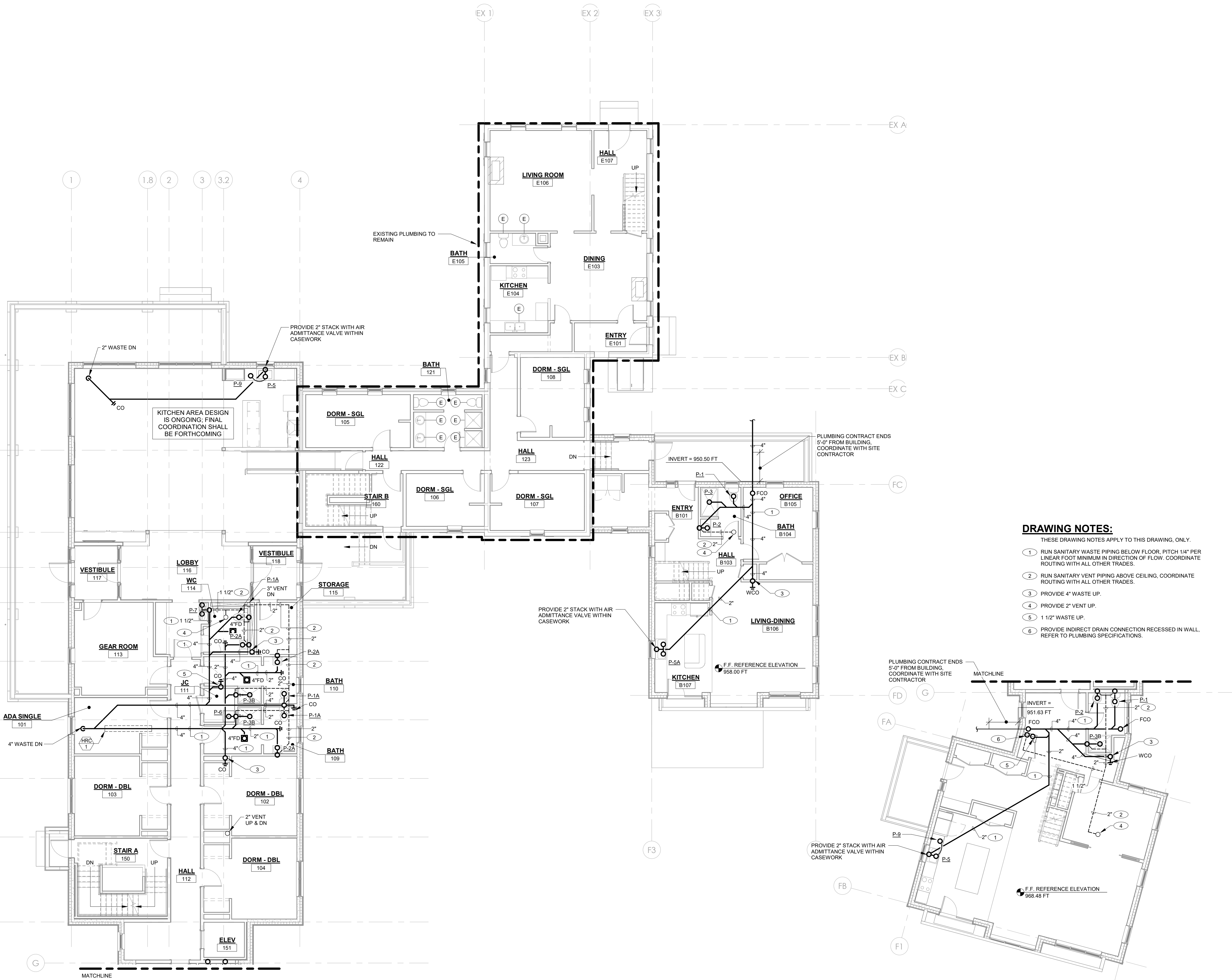
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON FIRST
FLOOR - WASTE &
VENT**

PK-1.2



- DRAWING NOTES:**
THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 RUN SANITARY WASTE PIPING BELOW FLOOR, PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 2 RUN SANITARY VENT PIPING ABOVE CEILING, COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 3 PROVIDE 4" WASTE UP.
 - 4 PROVIDE 2" VENT UP.
 - 5 1 1/2" WASTE UP.
 - 6 PROVIDE INDIRECT DRAIN CONNECTION RECESSED IN WALL, REFER TO PLUMBING SPECIFICATIONS.

PLUMBING WASTE & VENT FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

PLUMBING WASTE & VENT FIRST FLOOR PLAN - F.R. "A"
Scale: 1/8" = 1'-0"

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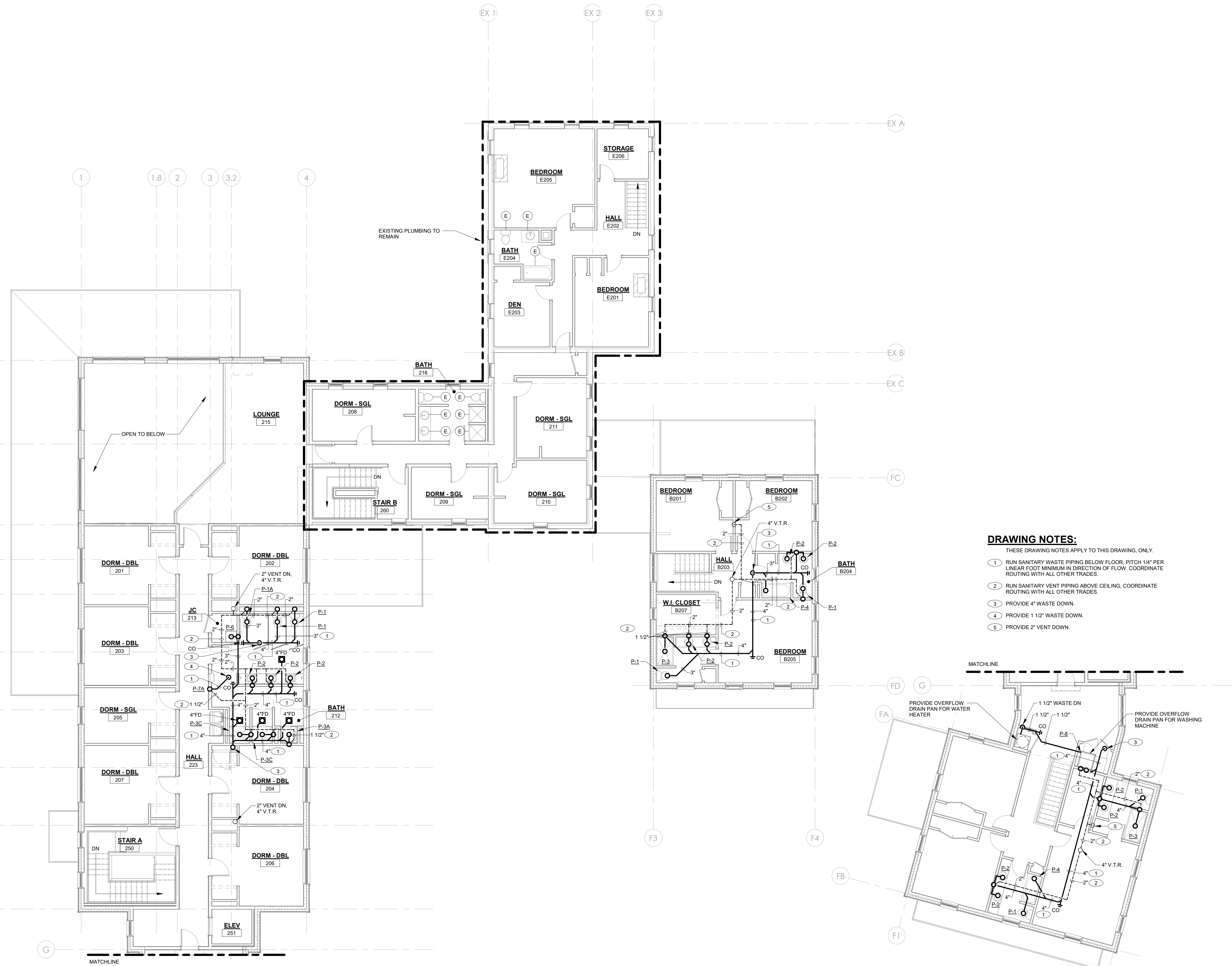
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON SECOND
FLOOR - WASTE &
VENT**

PK-1.3



DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING ONLY.

- 1 RUN SANITARY WASTE PIPING BELOW FLOOR. PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.
- 2 RUN SANITARY VENT PIPING ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER TRADES.
- 3 PROVIDE 4" WASTE DOWN.
- 4 PROVIDE 1 1/2" WASTE DOWN.
- 5 PROVIDE 2" VENT DOWN.

PLUMBING WASTE & VENT SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"

PLUMBING WASTE & VENT SECOND FLOOR PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



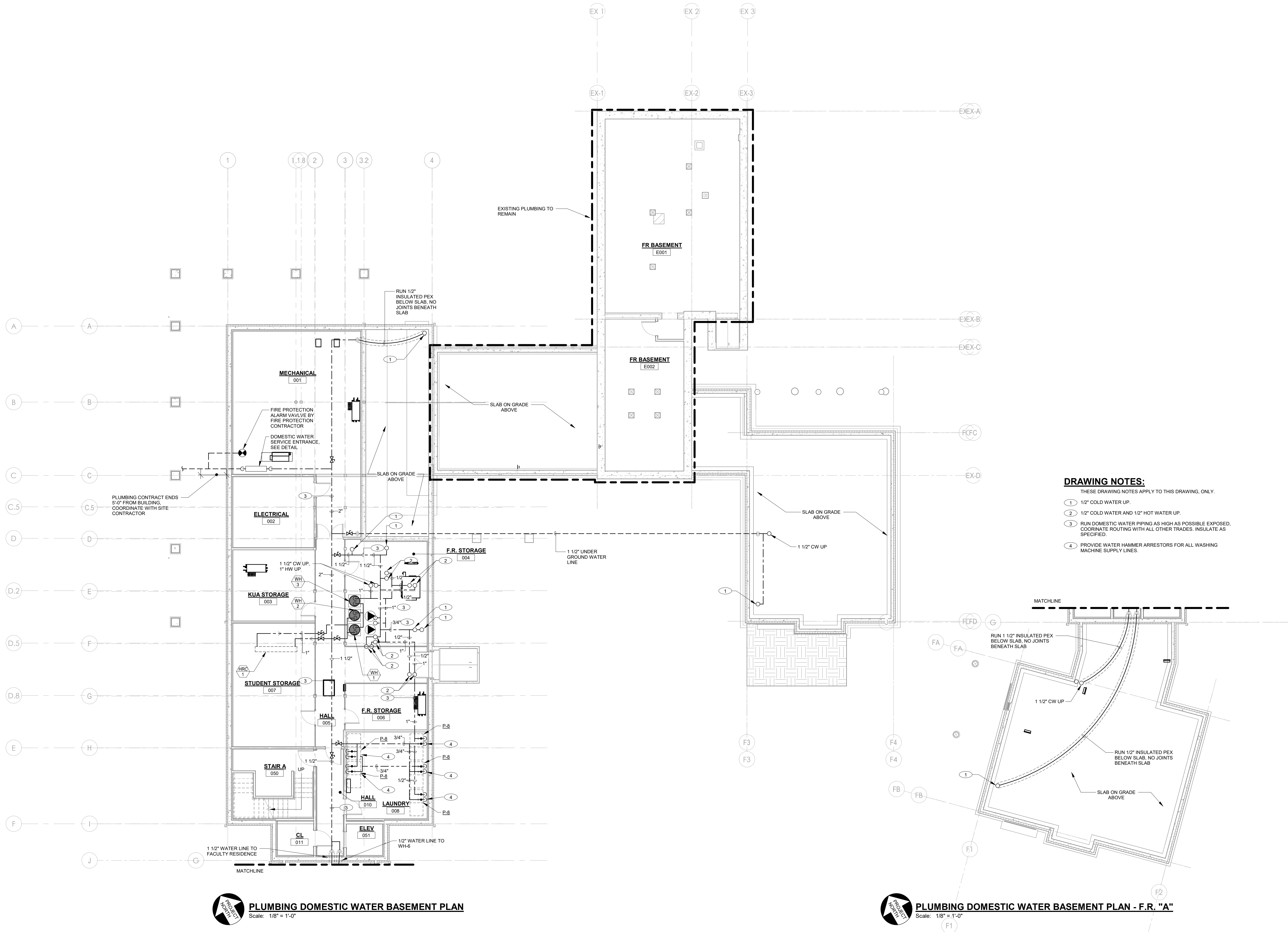
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON BASEMENT
- DOMESTIC**

PK-2.1



DRAWING NOTES:
THESE DRAWING NOTES APPLY TO THIS DRAWING ONLY.

- 1 1/2" COLD WATER UP.
- 1 1/2" COLD WATER AND 1 1/2" HOT WATER UP.
- RUN DOMESTIC WATER PIPING AS HIGH AS POSSIBLE EXPOSED. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
- PROVIDE WATER HAMMER ARRESTORS FOR ALL WASHING MACHINE SUPPLY LINES.

PLUMBING DOMESTIC WATER BASEMENT PLAN
Scale: 1/8" = 1'-0"

PLUMBING DOMESTIC WATER BASEMENT PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



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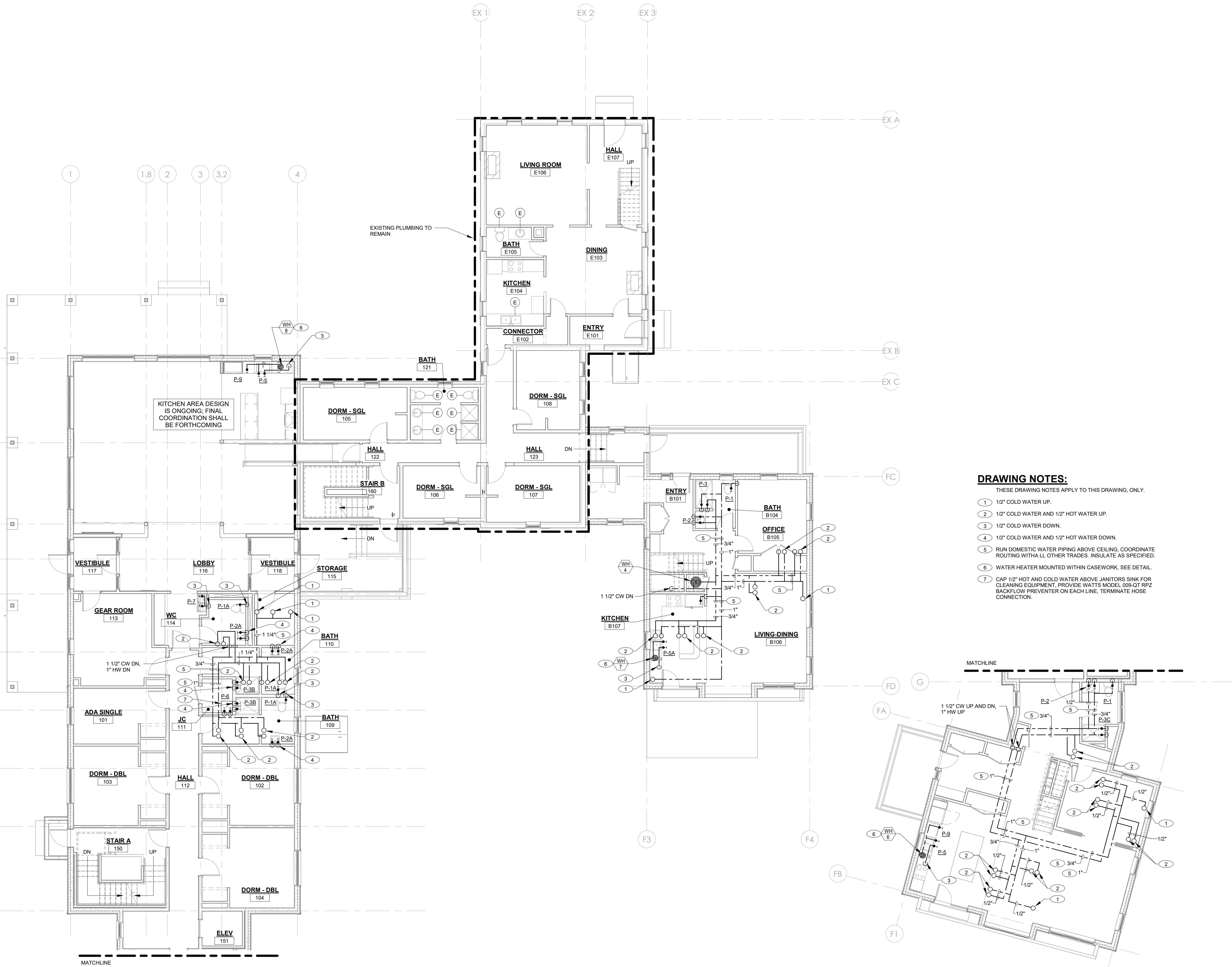
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KUA
KILTON/WELCH
DORMITORIES

Main Street
Meriden, NH 03770

KILTON FIRST
FLOOR -
DOMESTIC

PK-2.2



DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- ① 1/2" COLD WATER UP.
- ② 1/2" COLD WATER AND 1/2" HOT WATER UP.
- ③ 1/2" COLD WATER DOWN.
- ④ 1/2" COLD WATER AND 1/2" HOT WATER DOWN.
- ⑤ RUN DOMESTIC WATER PIPING ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
- ⑥ WATER HEATER MOUNTED WITHIN CASEWORK. SEE DETAIL.
- ⑦ CAP 1/2" HOT AND COLD WATER ABOVE JANITORS SINK FOR CLEANING EQUIPMENT. PROVIDE WATTS MODEL 009-QT RPZ BACKFLOW PREVENTER ON EACH LINE. TERMINATE HOSE CONNECTION.

PLUMBING DOMESTIC WATER FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

PLUMBING DOMESTIC WATER FIRST FLOOR PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



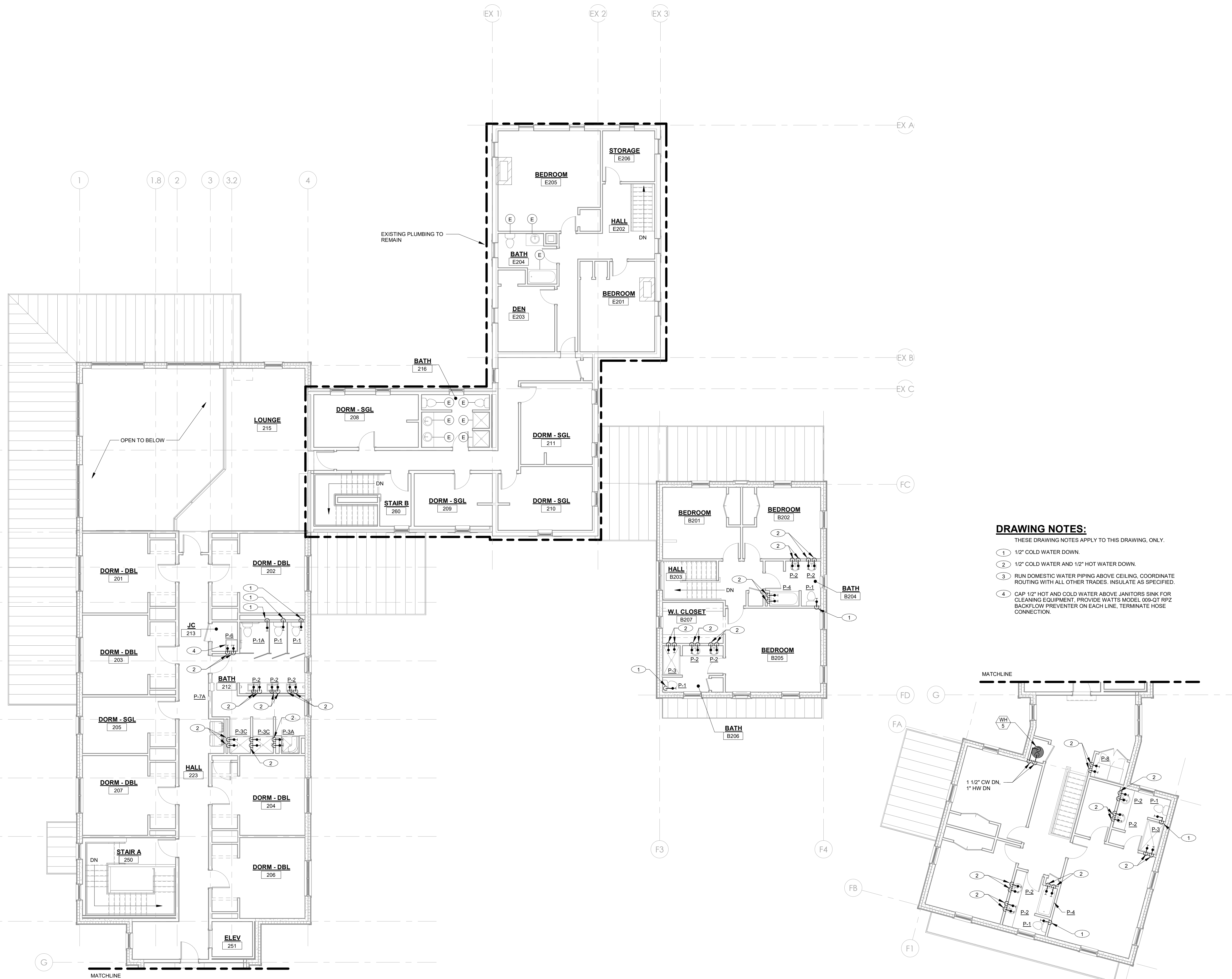
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON SECOND
FLOOR -
DOMESTIC**

PK-2.3



- DRAWING NOTES:**
THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1/2" COLD WATER DOWN.
 - 1/2" COLD WATER AND 1/2" HOT WATER DOWN.
 - RUN DOMESTIC WATER PIPING ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
 - CAP 1/2" HOT AND COLD WATER ABOVE JANITORS SINK FOR CLEANING EQUIPMENT. PROVIDE WATTS MODEL 099-QT RPZ BACKFLOW PREVENTER ON EACH LINE, TERMINATE HOSE CONNECTION.

PLUMBING DOMESTIC WATER SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"

PLUMBING DOMESTIC WATER SECOND FLOOR PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



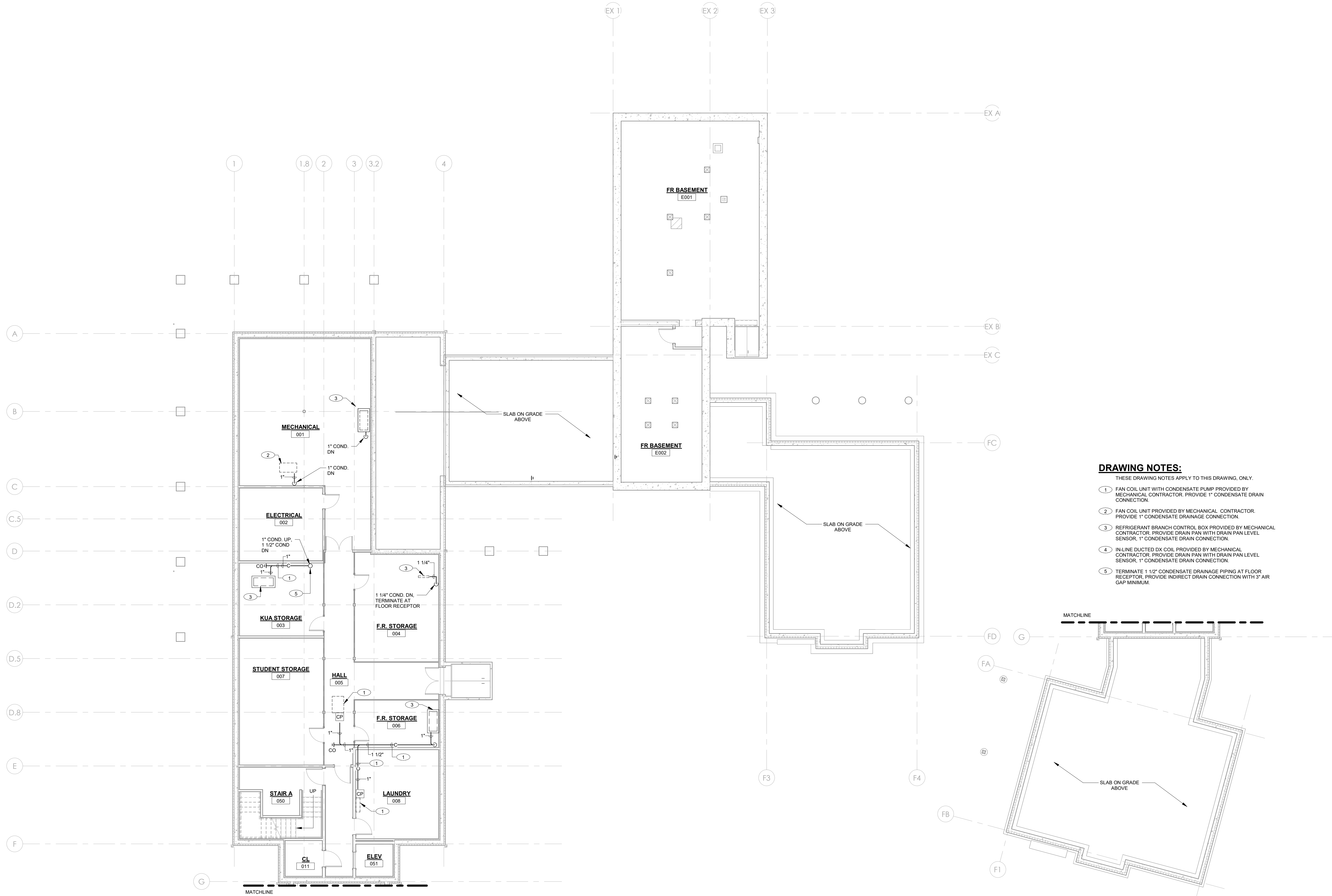
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON BASEMENT
- CONDENSATE**

PK-3.1



DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- 1 FAN COIL UNIT WITH CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 1" CONDENSATE DRAIN CONNECTION.
- 2 FAN COIL UNIT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 1" CONDENSATE DRAINAGE CONNECTION.
- 3 REFRIGERANT BRANCH CONTROL BOX PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE DRAIN PAN WITH DRAIN PAN LEVEL SENSOR, 1" CONDENSATE DRAIN CONNECTION.
- 4 IN-LINE DUCTED DX COIL PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE DRAIN PAN WITH DRAIN PAN LEVEL SENSOR, 1" CONDENSATE DRAIN CONNECTION.
- 5 TERMINATE 1 1/2" CONDENSATE DRAINAGE PIPING AT FLOOR RECEPTOR, PROVIDE INDIRECT DRAIN CONNECTION WITH 3" AIR GAP MINIMUM.

PLUMBING CONDENSATE BASEMENT PLAN
Scale: 1/8" = 1'-0"

PLUMBING CONDENSATE BASEMENT PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



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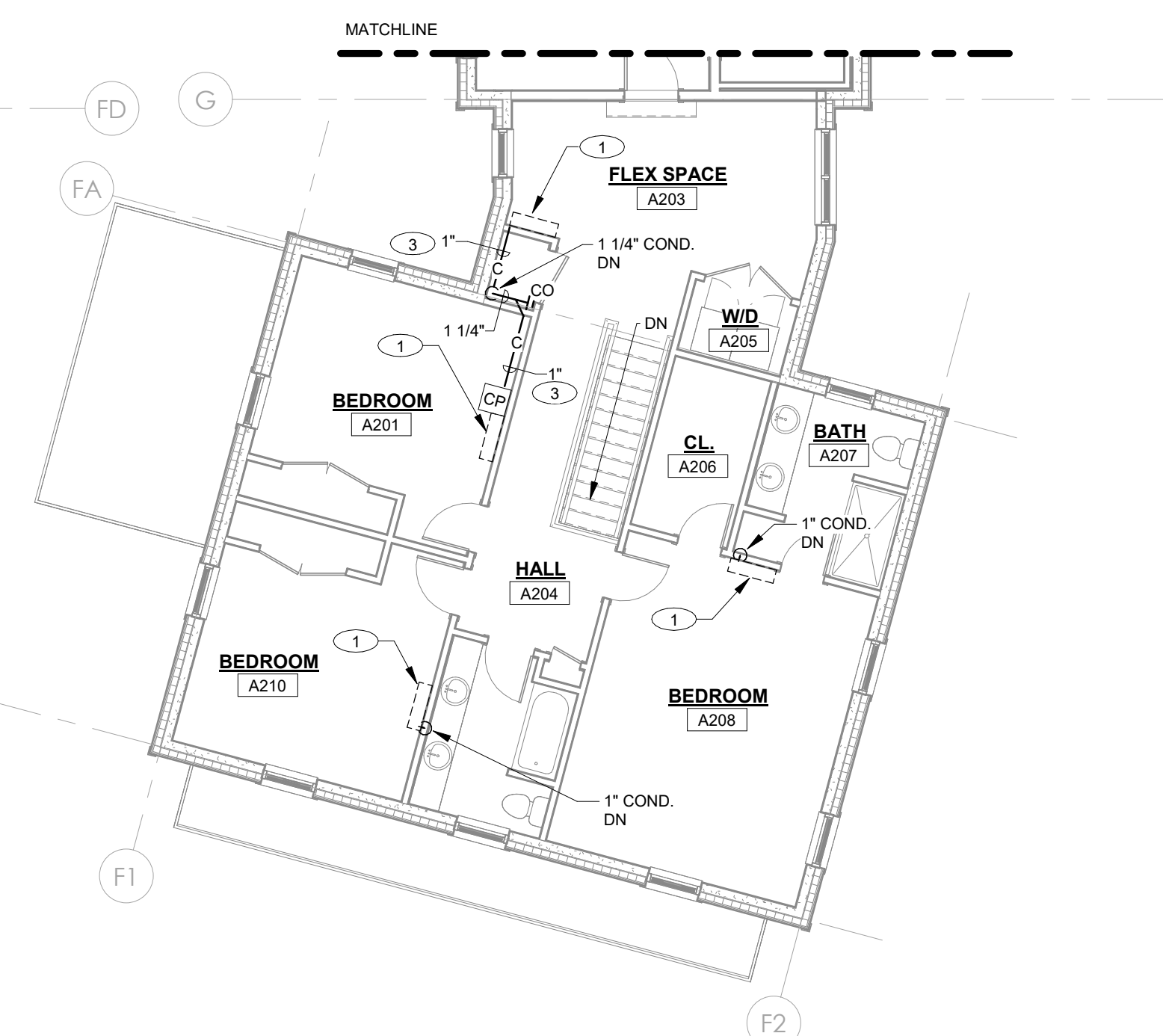
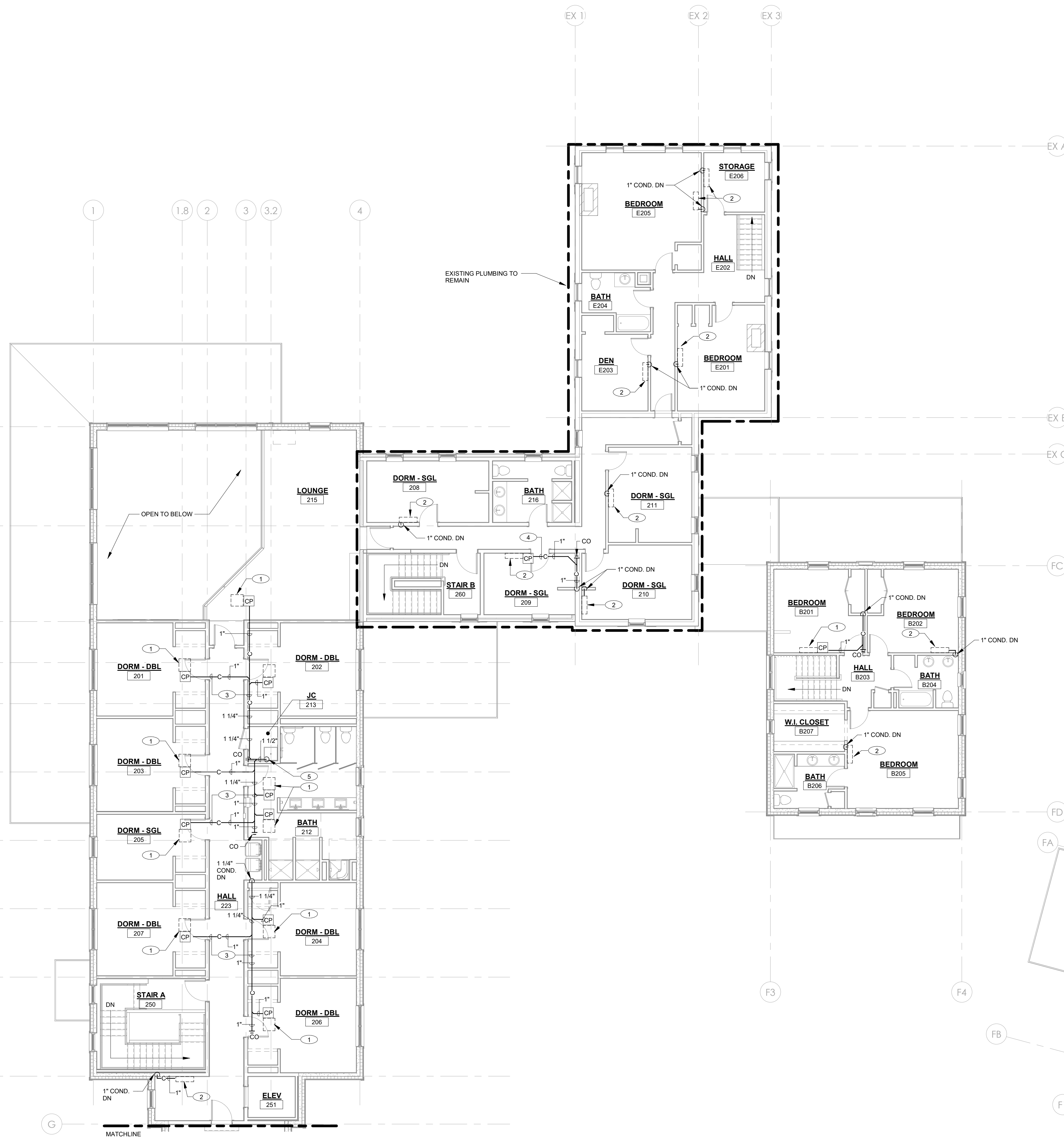
Drawn: NDD/SEF
Checked: DWD

REVISIONS:

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- 1 FAN COIL UNIT WITH CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 1" CONDENSATE DRAIN CONNECTION.
- 2 FAN COIL UNIT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 1" CONDENSATE DRAINAGE CONNECTION.
- 3 CONDENSATE DRAINAGE PIPING RUN ABOVE CEILING, PITCH MINIMUM 1/8" PER LINEAR FOOT IN DIRECTION OF FLOW. INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH ALL OTHER TRADES.
- 4 CONDENSATE DRAINAGE PIPING RUN ABOVE CEILING, PITCH MINIMUM 1/8" PER LINEAR FOOT IN DIRECTION OF FLOW. INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH ALL OTHER TRADES AND EXISTING CONDITIONS.
- 5 TERMINATE 1 1/2" CONDENSATE DRAINAGE PIPING AT SERVICE SINK. PROVIDE 3" AIR GAP MINIMUM.



PLUMBING CONDENSATE SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"

PLUMBING CONDENSATE SECOND FLOOR PLAN - F.R. "A"
Scale: 1/8" = 1'-0"



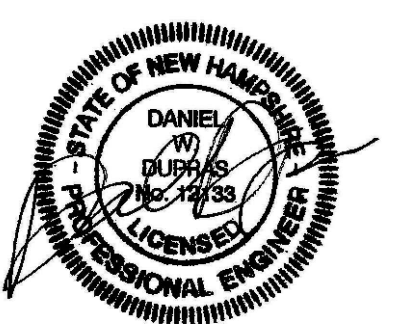
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**KILTON SECOND
FLOOR -
CONDENSATE**

PK-3.3

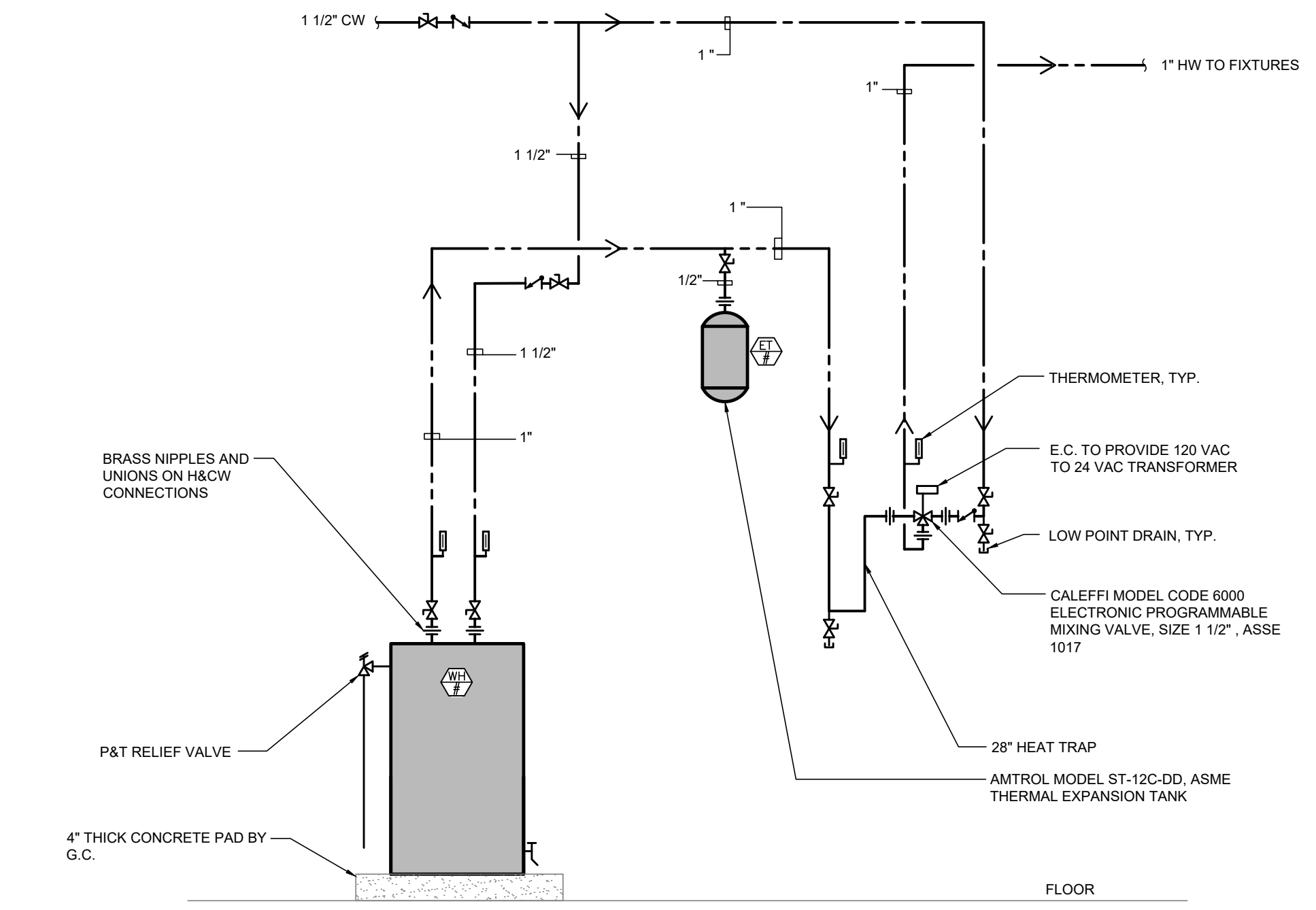
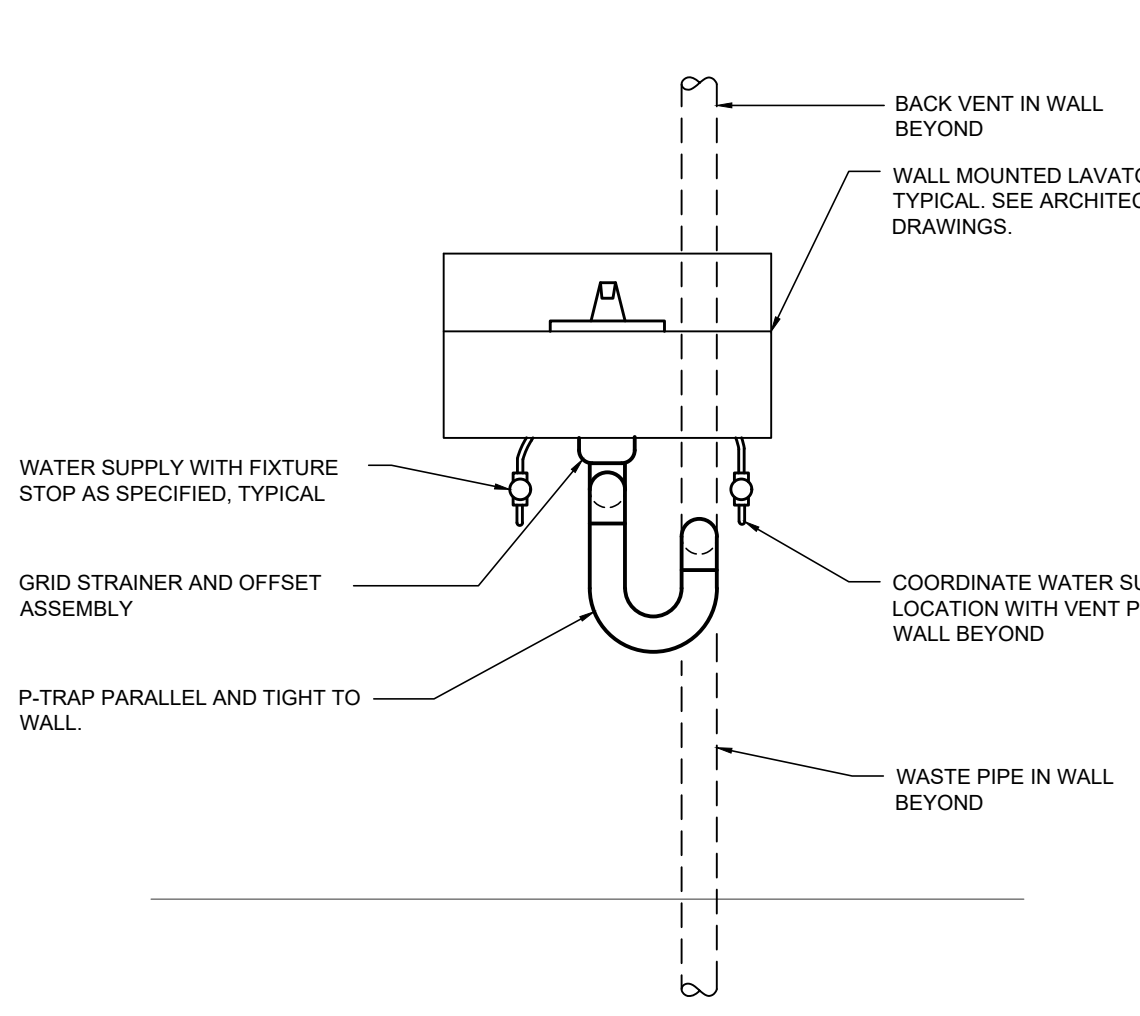
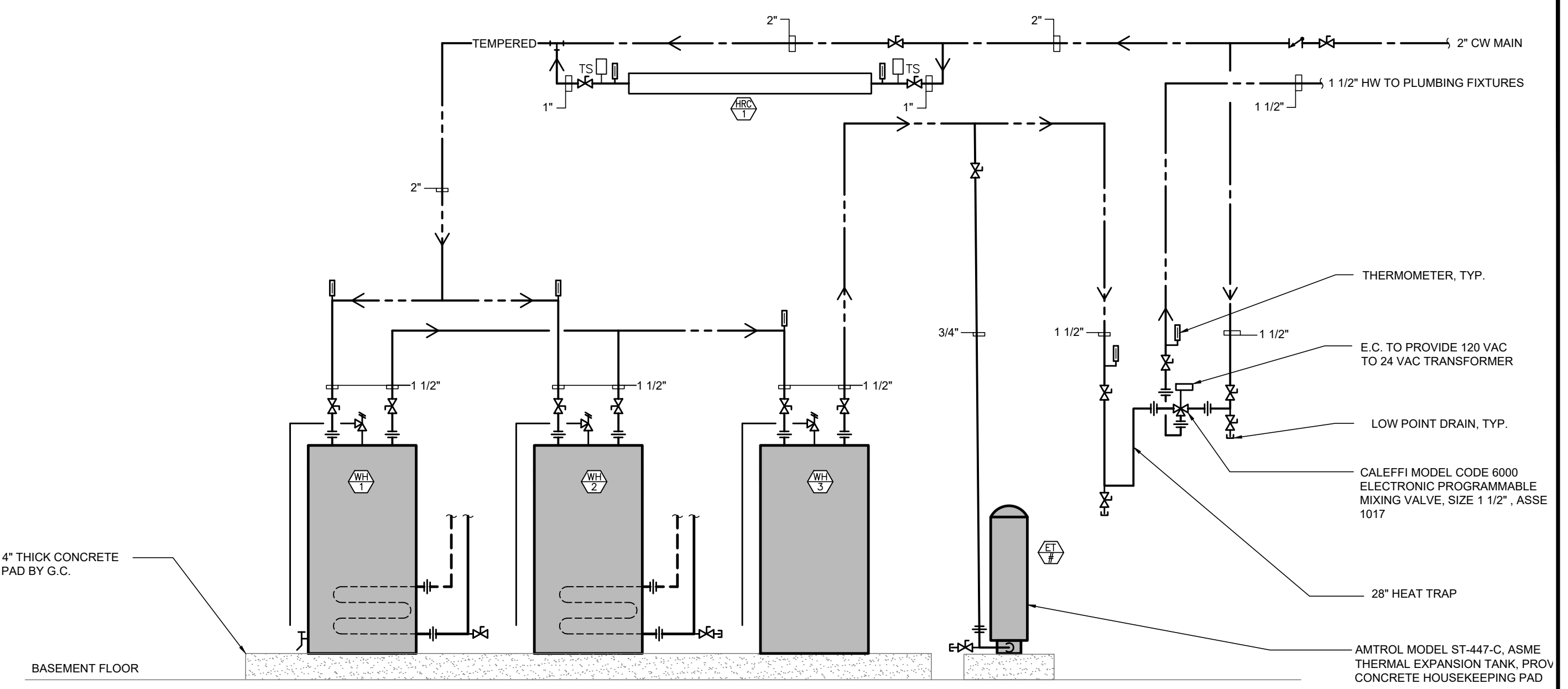
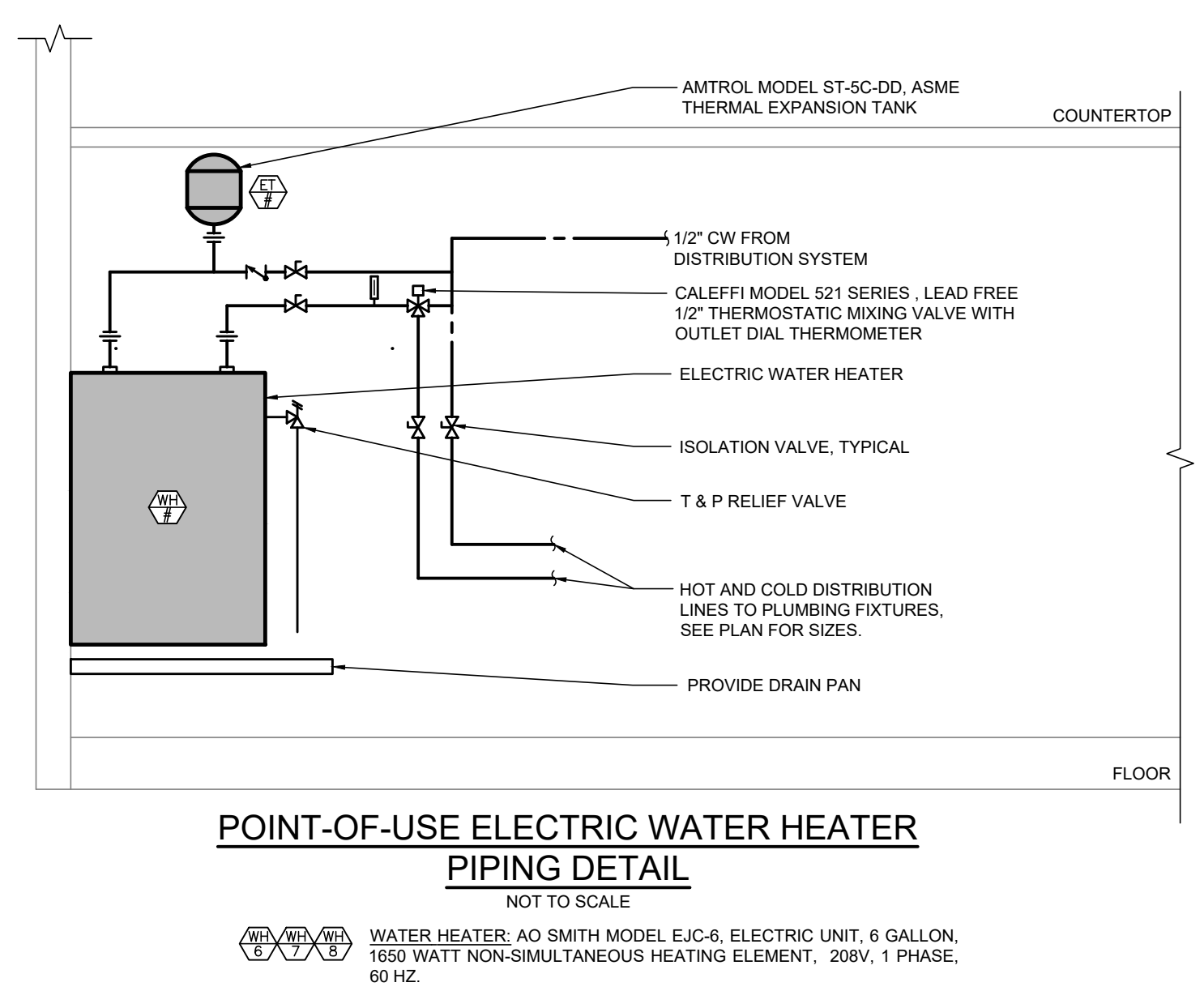
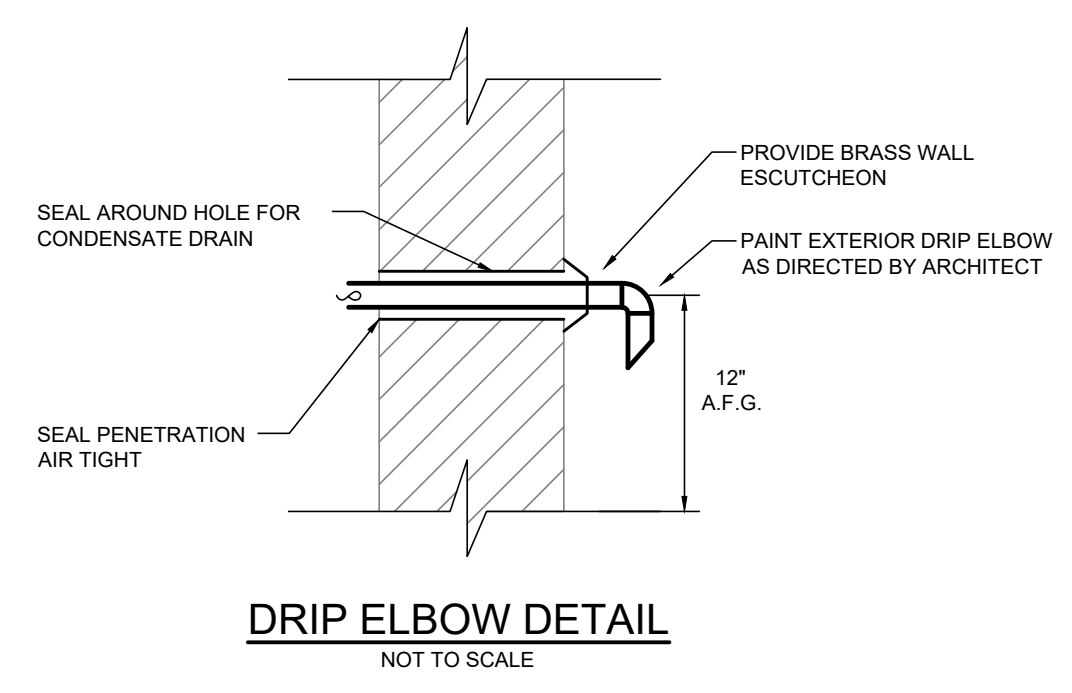


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KUA KILTON/WELCH DORMITORIES

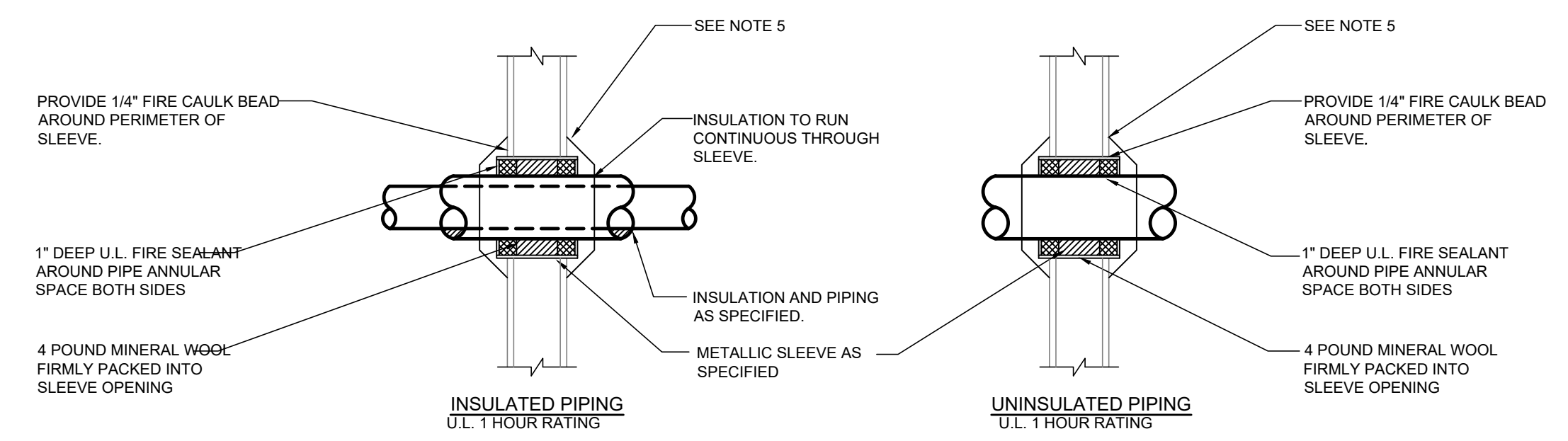
Main Street
Meriden, NH 03770
KILTON-PLUMBING DETAILS

PK-4.1



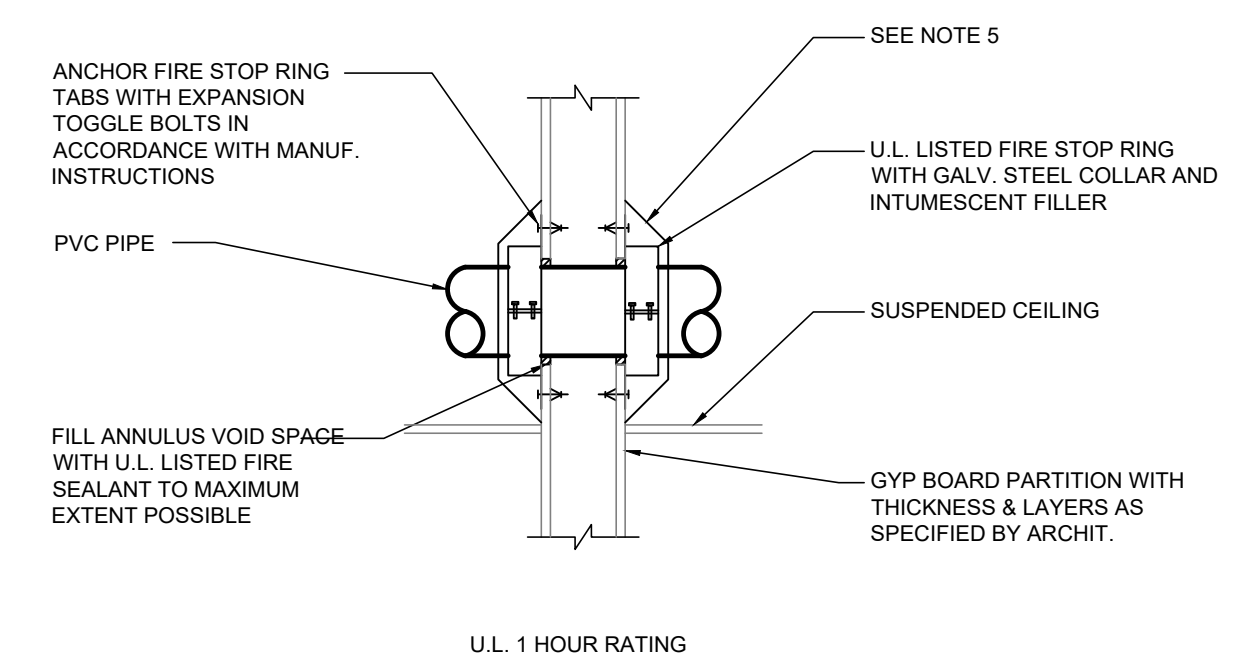
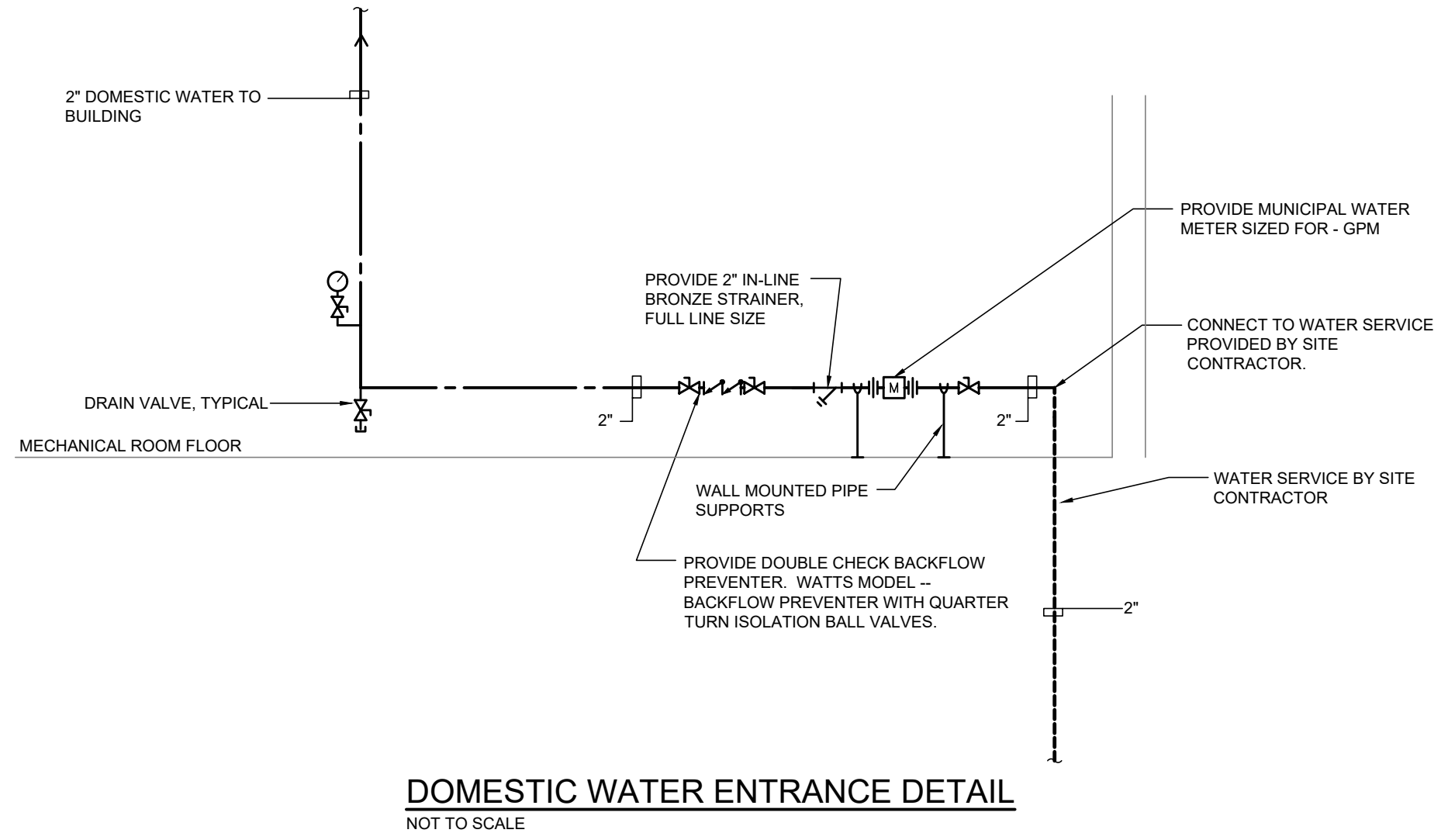
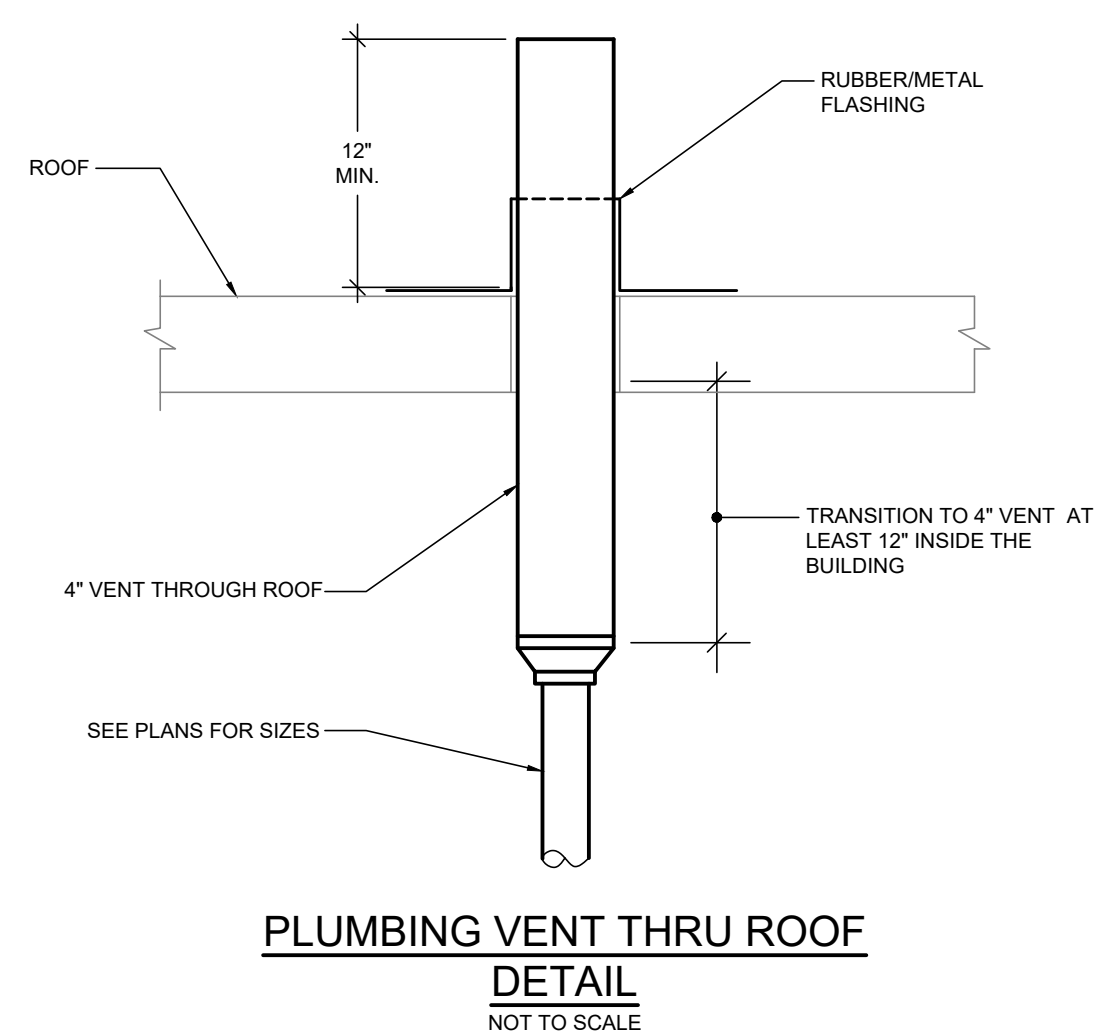
DOMESTIC WATER HEATING PIPING DETAIL

- WATER HEATER: HTP SUPERSTOR ULTRA COMMERCIAL MODEL SSU-199CN, INDIRECT UNIT, WITH A RATED RECOVERY OF 637 GPH AT 90 DEG. F. RISE, 180 DEG. F. SUPPLY WATER, 119 GALLONS AND COPPER/NICKEL HEAT EXCHANGER.
- WATER HEATER: AO SMITH MODEL LTE 120D, ELECTRIC UNIT, WITH A RATED RECOVERY OF 41 GPH AT 100 DEG. F. RISE, 119 GALLON, 10KW, TWO 5000 WATT UPPER AND LOWER SIMULTANEOUS HEATING ELEMENTS, 208V, 1 PHASE, 60 HZ.
- HEAT RECLAIM COIL: RENEVABILITY POWERPIPE MODEL C4-96, COMMERCIAL COPPER DRAIN WATER HEAT RECOVERY UNIT, 4" DIAMETER, 96" LONG WITH 1" FRESH WATER CONNECTIONS.



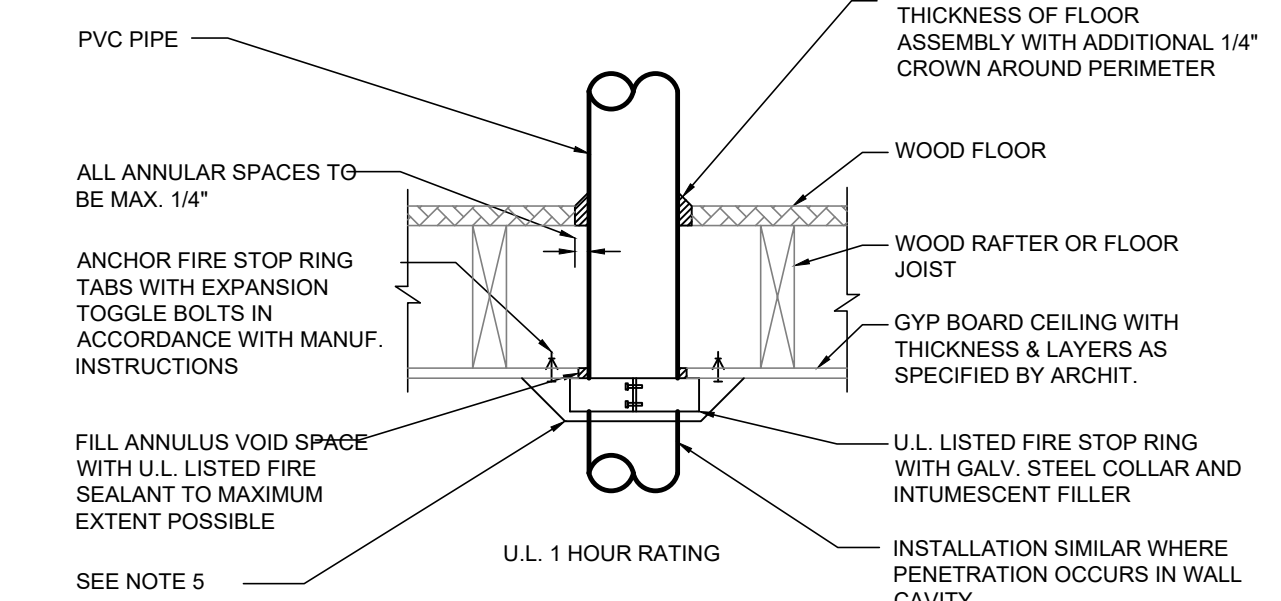
METALLIC PIPE WALL PENETRATION DETAILS

- NOTE:
- FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - ALL WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL ASSEMBLIES.
 - PROVIDE CHROME PLATED METAL PIPE ESCUTCHEONS FOR ALL EXPOSED WALL PENETRATIONS.



PVC PIPE WALL PENETRATION DETAILS

- NOTE:
- FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - ALL PVC PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - ALL FLOOR & WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL ASSEMBLIES.
 - PROVIDE CHROME PLATED METAL WALL ESCUTCHEONS FOR ALL EXPOSED PENETRATIONS.



PVC PIPE CEILING PENETRATION DETAILS

- NOTE:
- FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - ALL PVC PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - ALL CEILING PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - PROVIDE CHROME PLATED METAL WALL ESCUTCHEONS FOR ALL EXPOSED PENETRATIONS.



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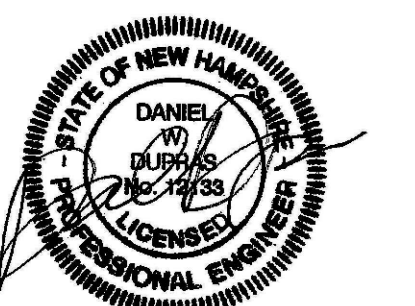
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Checked: DWD

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PERMIT SET 05/15/2023

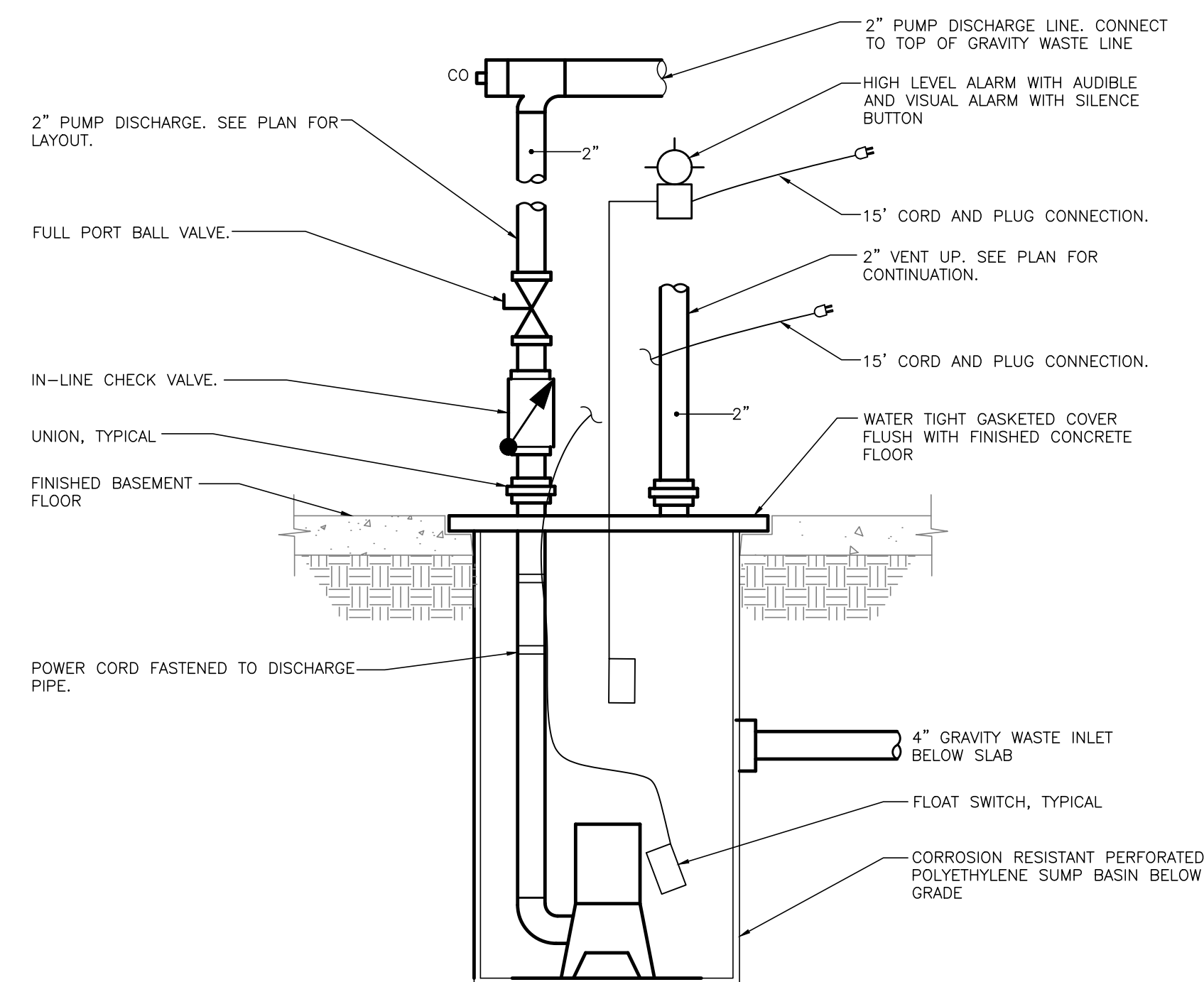
**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770
**PLUMBING
SCHEDULES**

PK-4.2

PLUMBING LEGEND & ABBREVIATIONS

—————	SANITARY PIPING		BALL VALVE
-----	VENT PIPING		FIXTURE STOP
-----	COLD WATER PIPING		NON-FREEZE HOSE BIBB
-----	HOT WATER PIPING (110°F)		FLOOR DRAIN
→	FLOW DIRECTION INDICATOR		FLOOR RECEPTOR
○	PIPE RISER		DOMESTIC WATER HEATER TAG
⌋	PIPE DROP	V.T.R.	VENT THROUGH ROOF
⌋	PIPE UNION		EXISTING PLUMBING FIXTURE TO REMAIN (NO WORK)
⌋	CLEANOUT		DRAWING NOTE TAG
⌋	WALL CLEANOUT	P-#	PLUMBING FIXTURE TAG
⌋	FLOOR CLEANOUT		



PACKAGED WASTE PUMP DETAIL

NOT TO SCALE

PROVIDE ZOELLER MODEL 900 SERIES, 18" DIAMETER PACKAGED PUMP SYSTEM WITH TOP VENT AND DISCHARGE. MODEL M53 PUMP RATED 19 GPM AT 15 FT HD. PROVIDE HIGH LEVEL ALARM. PROVIDE CORD AND PLUG WITH FACTORY INSTALLED FLOAT CONTROL UL LISTED. ELECTRICAL 3/10HP, 115V-60HZ-1PH.

PROVIDE ZOELLER MODEL M53 PUMP RATED 19 GPM AT 15 FT HD. INSTALLED IN ELEVATOR PIT AND DOES NOT REQUIRE POLYETHYLENE SUMP BASIN AS SHOWN IN DETAIL. PROVIDE HIGH LEVEL ALARM. PROVIDE CORD AND PLUG WITH FACTORY INSTALLED FLOAT CONTROL UL LISTED. ELECTRICAL 3/10HP, 115V-60HZ-1PH.

PLUMBING FIXTURE CONNECTION SCHEDULE								PLAN SYMBOL	P-#
NO.	ITEM	SOIL	WASTE	VENT	CW	HW	TRAP	REMARKS	
P-1	FLUSH VALVE WATERCLOSET	3"	-	2"	1/2"	-	INTEGRAL	-	
P-1A	ACCESSIBLE FLUSH VALVE WATERCLOSET	3"	-	2"	1/2"	-	INTEGRAL	-	
P-2	ACCESSIBLE COUNTER LAVATORY	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/4" X 1 1/2" P	-	
P-2A	ACCESSIBLE WALL HUNG LAVATORY	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/4" X 1 1/2" P	-	
P-3	SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3A	ACCESSIBLE SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3B	ACCESSIBLE SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3C	SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3D	TUB SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-4	KITCHEN SINK	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/2" - P	-	
P-4A	DOUBLE BOWL KITCHEN SINK	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/2" - P	-	
P-5	BI-LEVEL DRINKING FOUNTAIN	-	1 1/2"	1 1/2"	1/2"	-	1 1/2" - P	-	
P-6	LAUNDRY VALVE	-	2"	1 1/2"	1/2"	1/2"	2" P-TRAP	PROVIDE WATER HAMMER ARRESTORS AND 36" HIGH 2" STANDPIPE	
P-7	DISHWASHER	-	1"	-	-	1/2"	I.D.	PIPE TO SINK TAILPIECE	