

KEYNOTES		GENERAL NOTES
033000.A	(E) CONCRETE PAVING	A. CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND LANDSCAPE ITEMS INDICATED ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO RESPECTIVE DISCIPLINE DRAWINGS FOR CONSTRUCTION DRAWING INFORMATION. B. PAVING AND LANDSCAPING AREAS SHOWN ON THIS SHEET ARE GENERAL IN NATURE.
033000.B	(N) CONCRETE PAVING	
033000.C	SLOPE (N) CONCRETE PAVING TO (E) SIDEWALK	
042200.A	(E) CMU PLANTER TO REMAIN	
042200.B	(E) PLANTER TO REMAIN	
042200.C	(N) SIDE OF CMU PLANTER	
210000.A	(N) FIRE SPRINKLER RISER	
321723.A	(E) PAVEMENT MARKING	
321723.B	(N) PAVEMENT MARKING	
321726.A	(N) CAST-IN-PLACE DETECTABLE WARNING TILES	
321726.B	(N) SURFACE-APPLIED DETECTABLE WARNING TILES	

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign
 P.O. BOX 3103
 ROHNERT PARK, CA 94927
 WWW.BROKAWDESIGN.COM

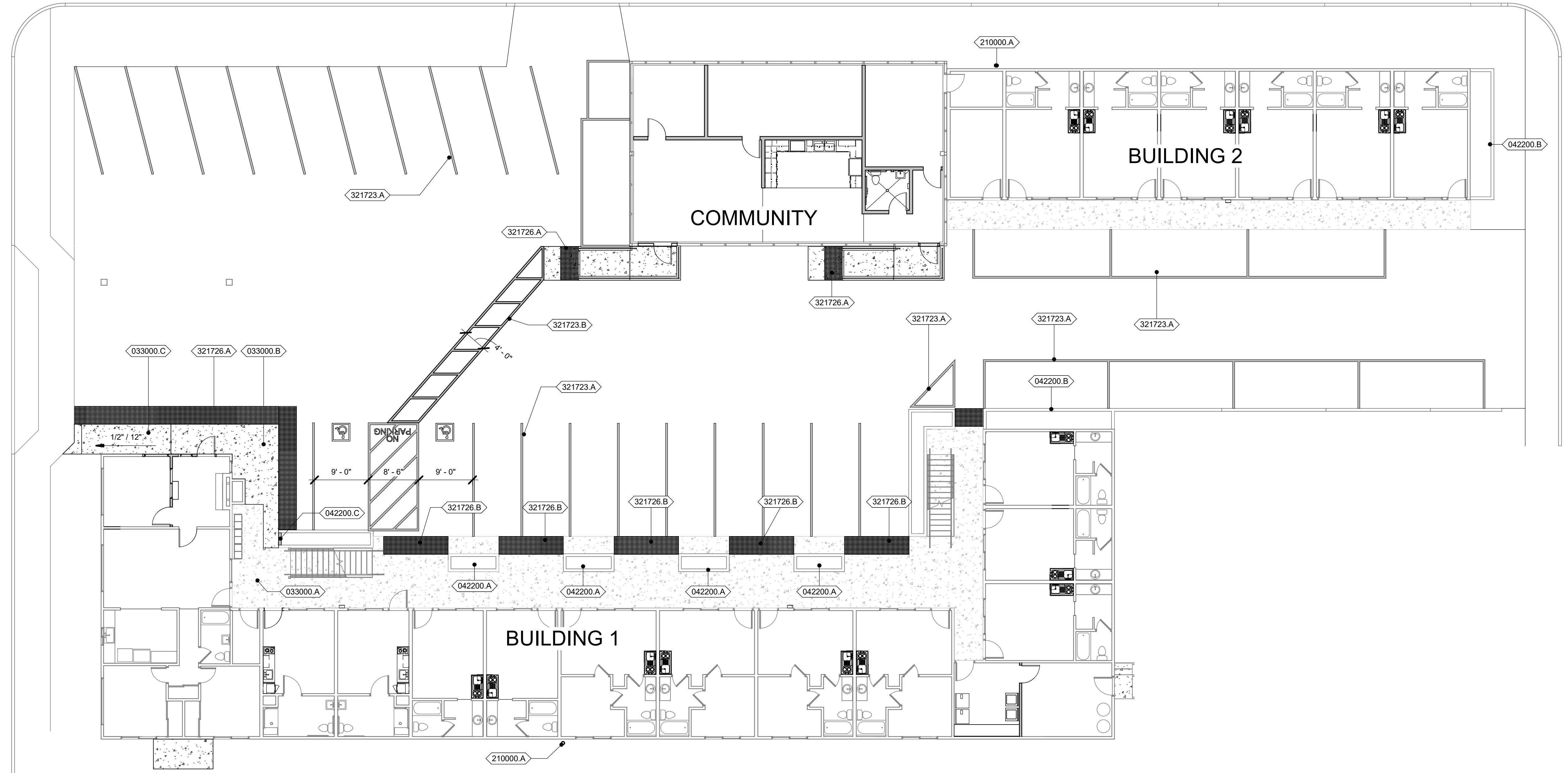
PROJECT:
THE LEGACY RENOVATION
 665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:

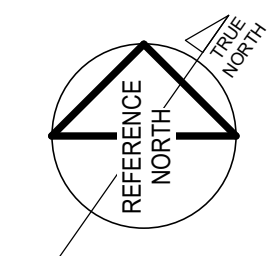
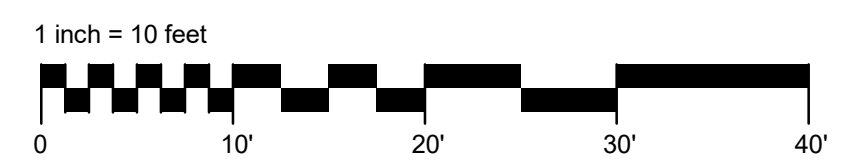
SITE PLAN

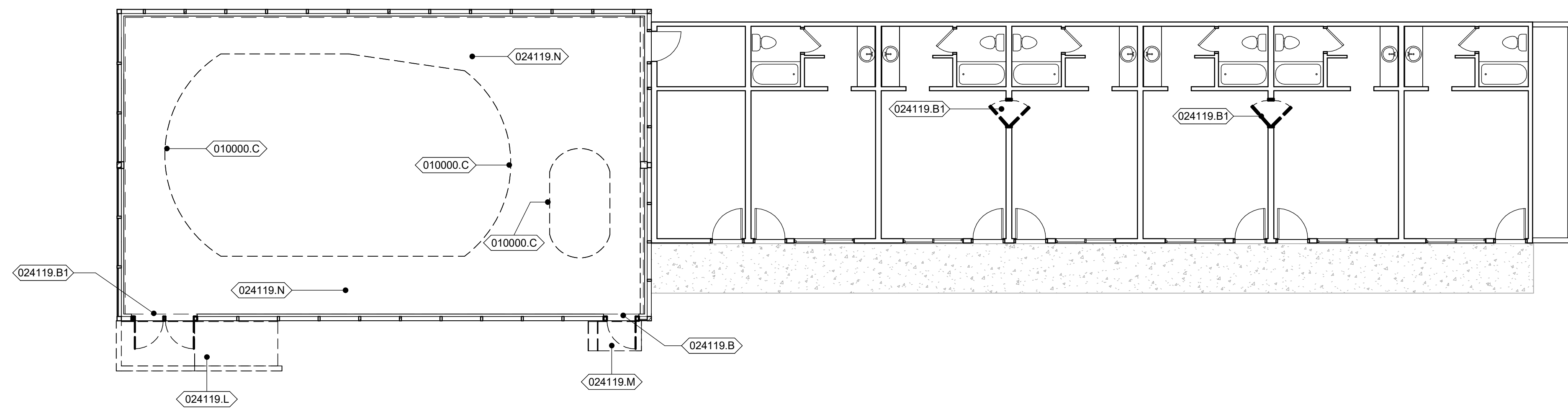
ISSUE DATE:	3/11/22
PREPARATION AND REVIEW	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	
PEER REVIEW:	
SHEET NUMBER:	

A101

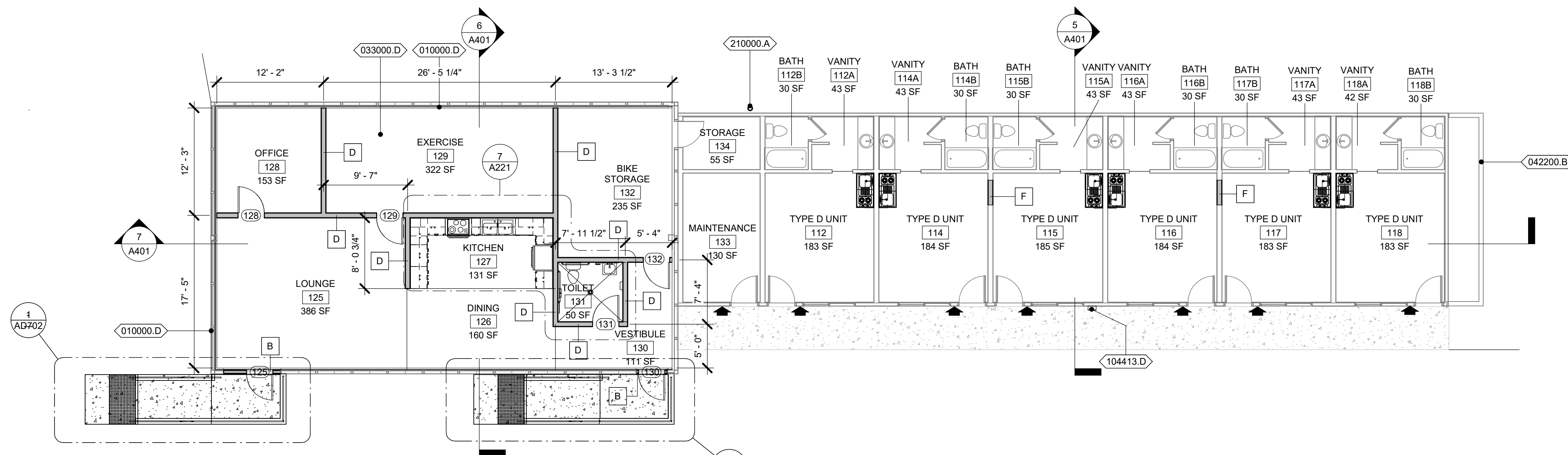


1 SITE PLAN-NEW
 1" = 10'-0"





1 BLDG 2 FIRST FLOOR-DEMO
1/8" = 1'-0"



2 BLDG 2 FIRST FLOOR-NEW
1/8" = 1'-0"

GENERAL NOTES

- A. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS INDICATED ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO RESPECTIVE DISCIPLINE DRAWINGS FOR CONSTRUCTION DRAWING INFORMATION.
- B. REFER TO ENLARGED FLOOR PLANS OF TOILETS FOR COMPLETE CONSTRUCTION DOCUMENTATION INFORMATION.
- C. REFER TO DOOR SCHEDULE FOR DOOR TYPES AND DIMENSIONS.
- D. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR FINISHES AND LOCATIONS.
- E. SIGNAGE LOCATION DESIGNATION ▲, SEE SHEET AD802 FOR REQUIREMENTS.

UNIT SCOPE NOTES

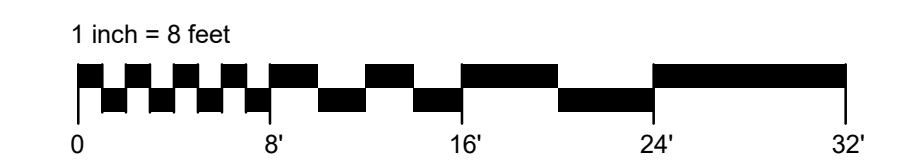
- 1. PROVIDE HARD-WIRED ELECTRIC DOORBELL OUTSIDE EACH UNIT ENTRY DOOR. BUTTON OR SWITCH SHALL ACTIVATE AUDIBLE TONE AND VISIBLE SIGNAL WITHIN THE RESIDENTIAL UNIT.
- 2. RANGE HOODS: SUMMIT H1718W.
- 3. STANDARD ROOM KITCHENETTES: SUMMIT C48EL WITH CT861W COMPACT REFRIGERATOR WITH FREEZER COMPARTMENT.
- 4. MOBILITY ACCESSIBLE KITCHENETTES: SUMMIT CK72ADASINNL.

KEYNOTES

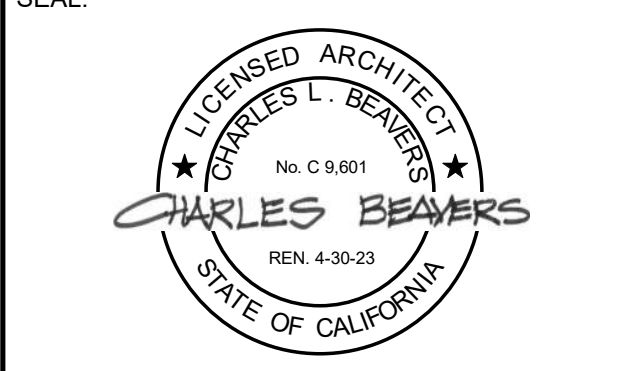
- 010000.C INFILL POOL & HOT TUB
- 010000.D (E) WINDOW WALL TO REMAIN
- 024119.B DEMO (E) DOOR
- 024119.B1 DEMO (E) DOORS
- 024119.L DEMO (E) CONCRETE RAMP & RAILINGS
- 024119.M DEMO (E) CONCRETE STAIRS & RAILINGS
- 024119.N DEMO (E) POOL DECK
- 033000.D (N) CONCRETE FLOOR SLAB, S.S.D.
- 042200.B (E) PLANTER TO REMAIN
- 104413.D LOWER (E) FIRE EXTINGUISHER CABINET, BOTTOM 27" MAX ABOVE FF
- 210000.A (N) FIRE SPRINKLER RISER

WALL LEGEND

- (E) WALL TO REMAIN
- (N) WALL



REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
THE LEGACY RENOVATION



665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:
BLDG 2 FIRST FLOOR PLANS

ISSUE DATE: 3/11/22
PREPARATION AND REVIEW
DRAWN BY: CB
DESIGNER: CB
PROJ MGR:
PEER REVIEW:
SHEET NUMBER:

A203


WALL LEGEND

-  (E) WALL TO REMAIN
-  (N) WALL

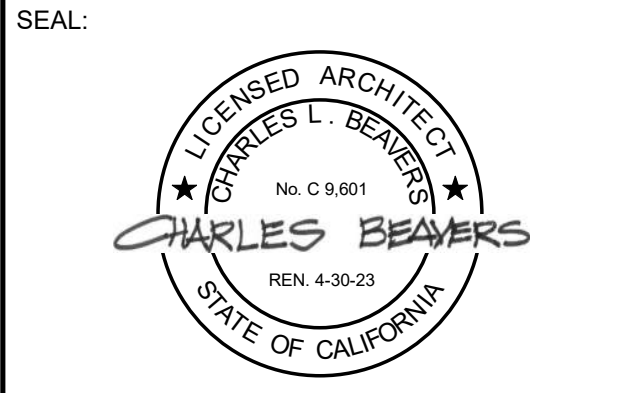
KEYNOTES

- 010000.E (E) SIDEWALK
- 010000.F (E) LANDSCAPE AREA
- 010000.G (E) INSERT FIREPLACE TO REMAIN
- 010000.H (E) MAILBOXES TO REMAIN
- 010000.I (E) FURNITURE, N.I.C
- 010000.J REFRIGERATOR BY OWNER
- 033000.A (E) CONCRETE PAVING
- 033000.B (N) CONCRETE PAVING
- 033000.C SLOPE (N) CONCRETE PAVING TO (E) SIDEWALK
- 033000.E SLOPE FLOOR 1% TO DRAIN
- 042200.C (N) SIDE OF CMU PLANTER
- 064023.D (N) WALL HUNG CABINETS
- 064023.G (N) TRANSACTION COUNTER, 12" X 36"
- 102800.A TOILET TISSUE (ROLL) DISPENSER
- 102800.F WARM-AIR DRYER
- 102800.J LIQUID-SOAP DISPENSER
- 102800.M GRAB BAR, 36"
- 102800.N GRAB BAR, 48"
- 102800.Q SEAT-COVER DISPENSER
- 102800.S MIRROR UNIT
- 113200.A KITCHENETTE
- 113200.B COOKTOP
- 113200.C UNDERCOUNTER REFRIGERATOR
- 113200.D RANGE
- 113200.E OVEN
- 220000.A (N) FLOOR DRAIN
- 321726.A (N) CAST-IN-PLACE DETECTABLE WARNING TILES

GENERAL NOTES

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- B. REFER TO ENLARGED FLOOR PLANS OF TOILETS FOR COMPLETE CONSTRUCTION DOCUMENTATION INFORMATION.
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- D. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR FINISHES AND LOCATIONS.
- E. SIGNAGE LOCATION DESIGNATION . SEE SHEET AD802 FOR REQUIREMENTS.

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 ROHNERT PARK, CA 94927
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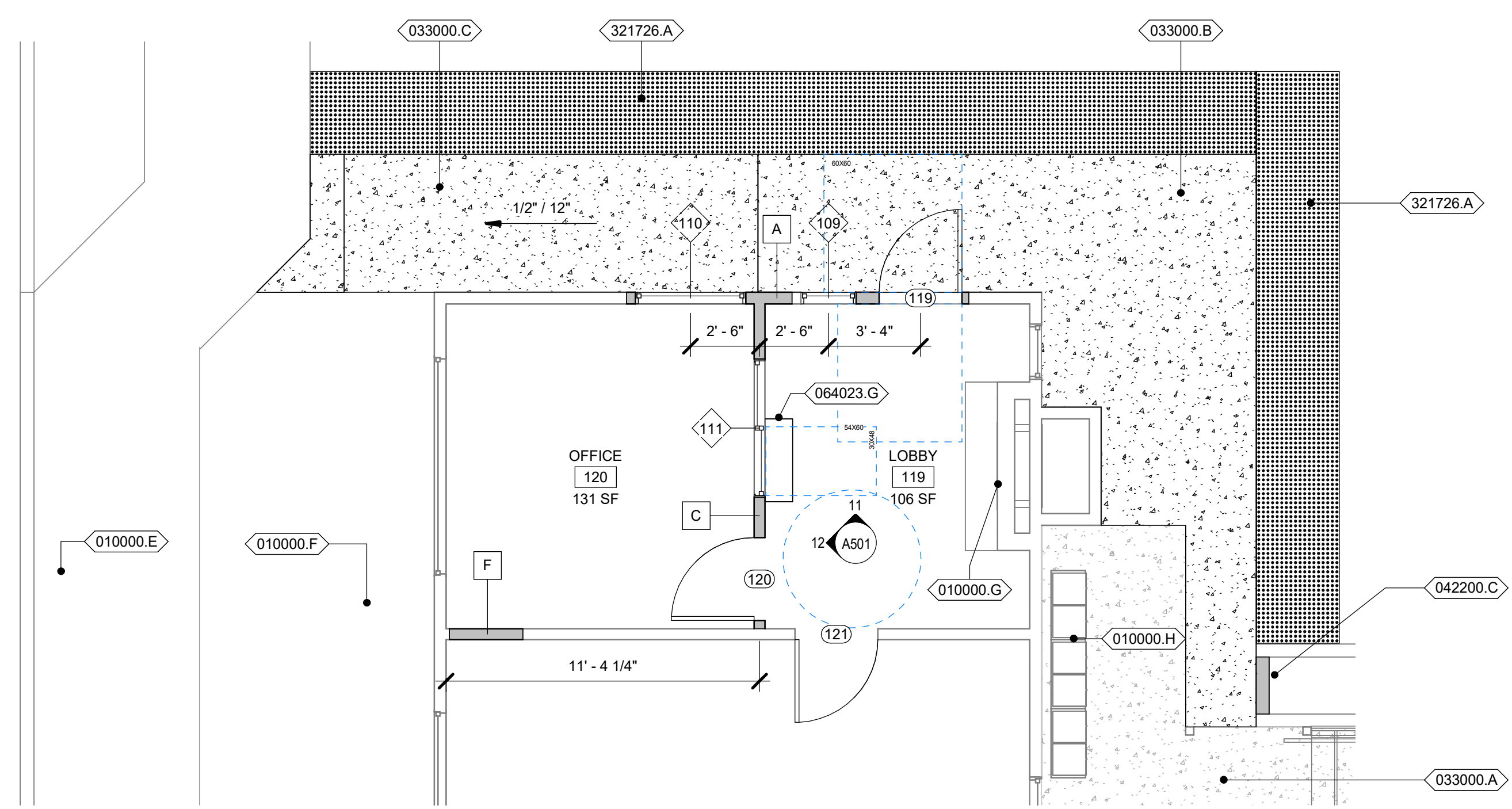
PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA
 95531

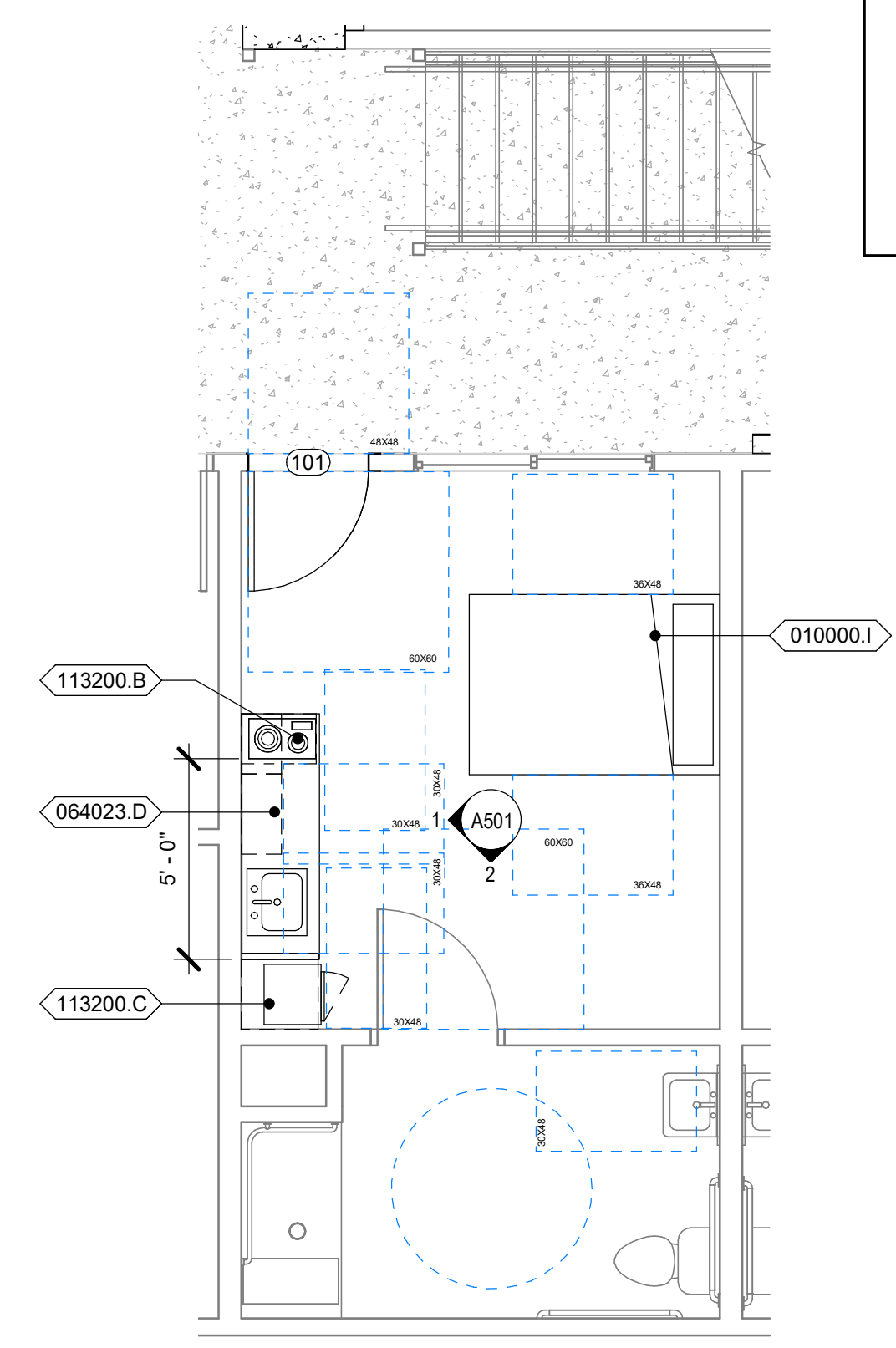
SHEET NAME:
ENLARGED FLOOR PLANS

 ISSUE DATE: 3/11/22
 PREPARATION AND REVIEW
 DRAWN BY: CB
 DESIGNER: CB
 PROJ MGR:
 PEER REVIEW:
 SHEET NUMBER:

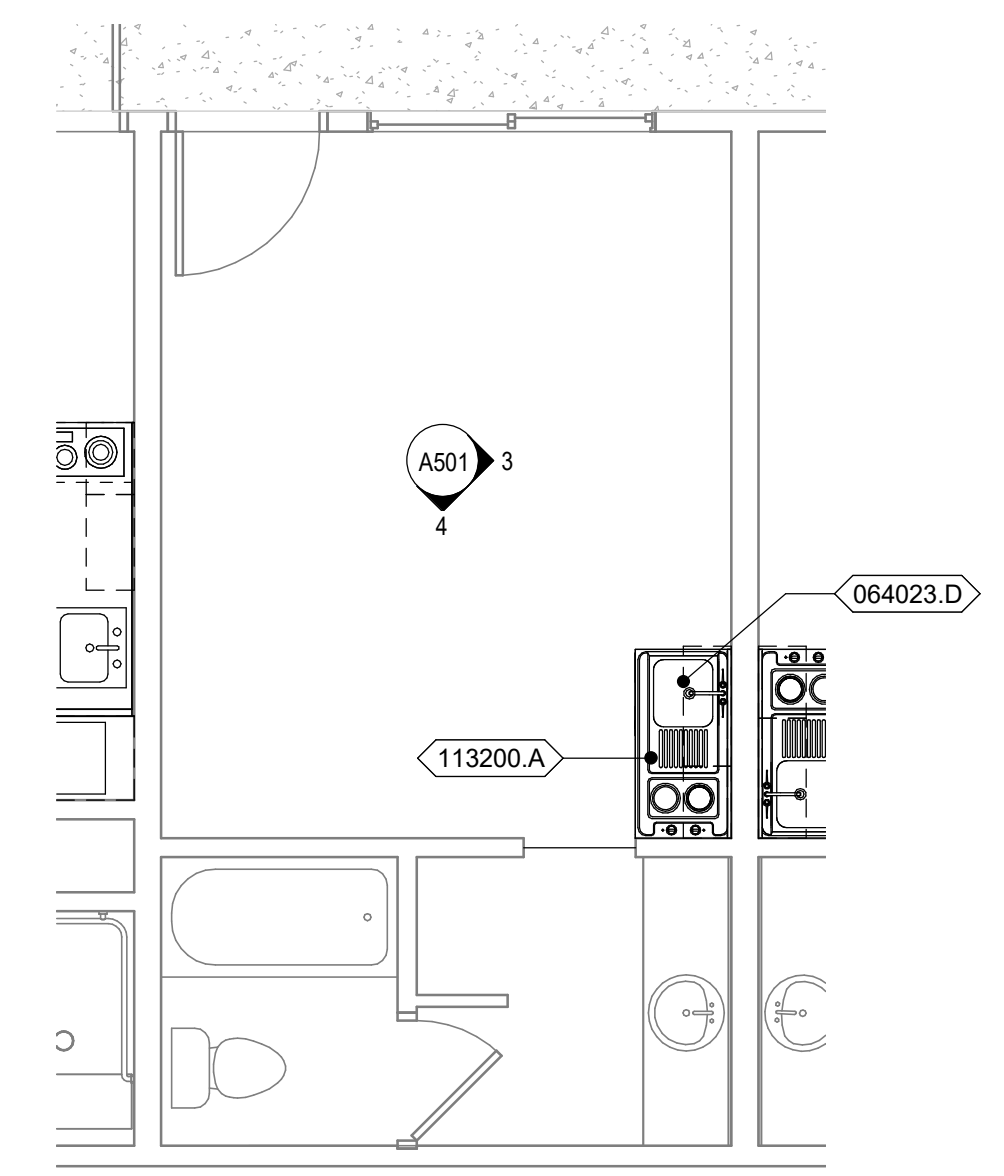
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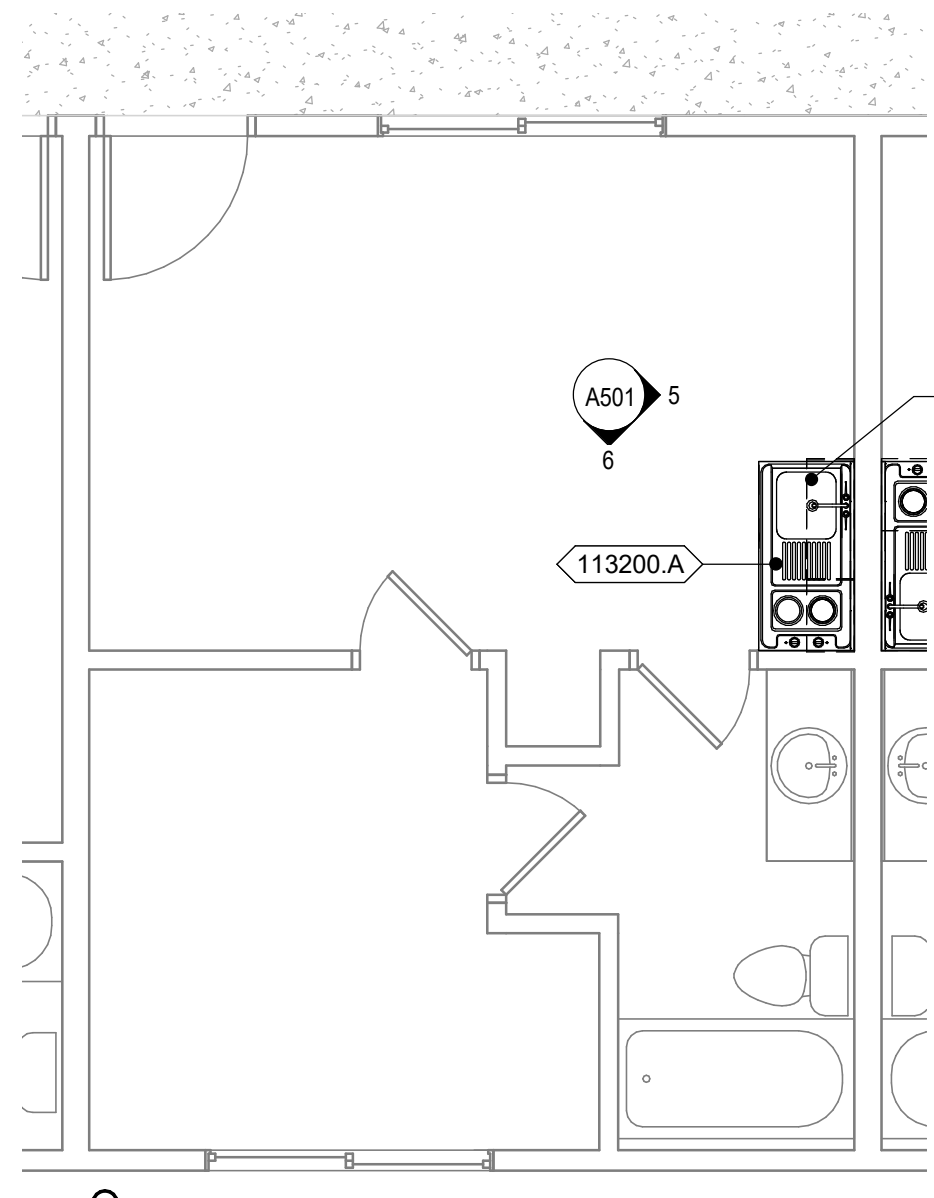
1 LOBBY PLAN
 1/4" = 1'-0"



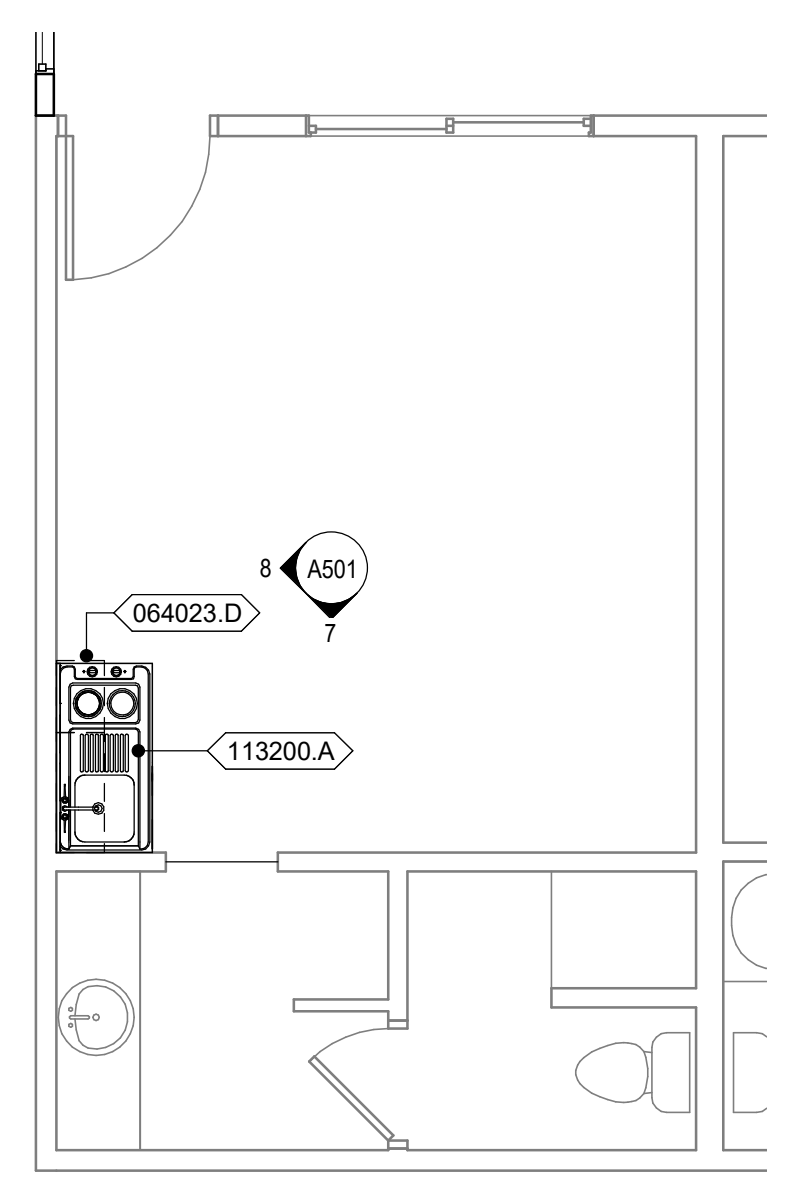
2 MOBILITY ACCESSIBLE UNIT
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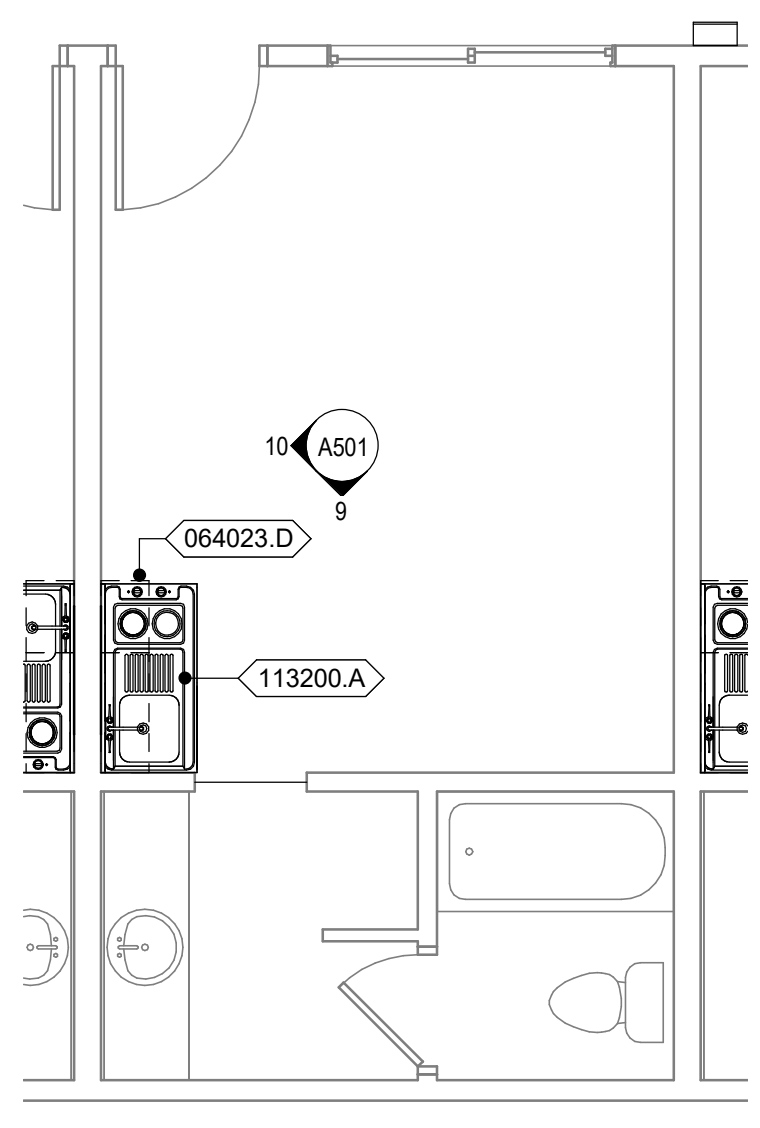
3 TYPE A UNIT
 1/4" = 1'-0"



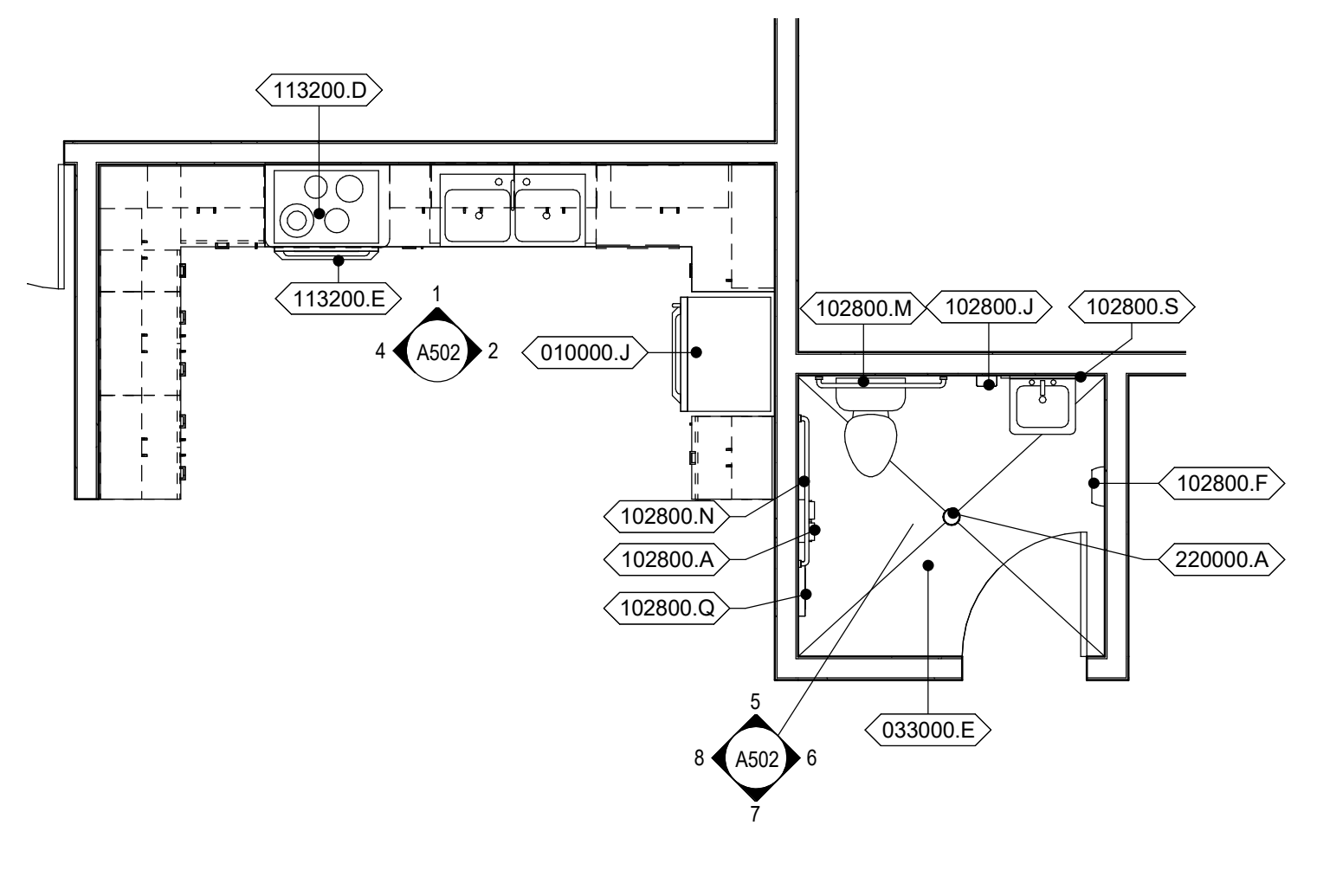
4 TYPE B UNIT
 1/4" = 1'-0"



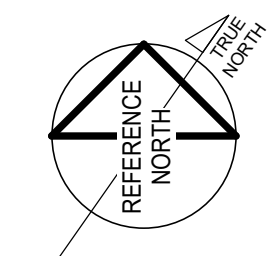
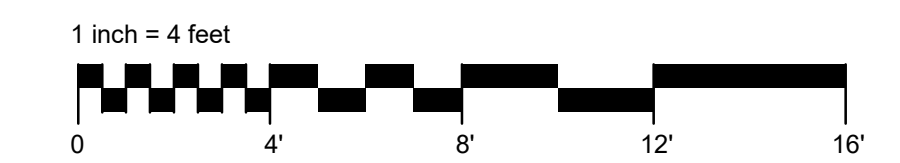
5 TYPE C UNIT
 1/4" = 1'-0"



6 TYPE D UNIT
 1/4" = 1'-0"



7 COMMUNITY KITCHEN & BATH
 1/4" = 1'-0"



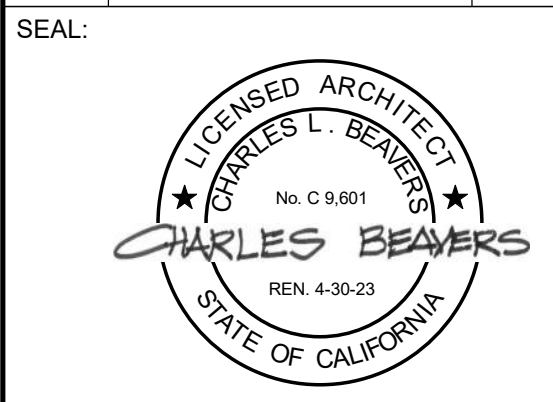
GENERAL NOTES

- A. CEILING HEIGHT INDICATED SHALL BE MEASURED FROM THE FINISH FLOOR TO THE FINISH SURFACE OF THE CEILING. SEE FINISH SCHEDULE FOR CEILING HEIGHTS NOT SHOWN.
- B. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE THE CEILING, INCLUDING BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS, INSULATION, CONDUIT RACEWAYS, FIRE SPRINKLER PIPING, LIGHT FIXTURES, AND SUSPENDED CEILING SYSTEMS.
- C. ACCESS PANELS SHALL BE PROVIDED AS REQUIRED FOR PROPER OPERATION AND MAINTENANCE OF MECHANICAL AND ELECTRICAL EQUIPMENT, WHETHER OR NOT INDICATED ON DRAWINGS.
- D. WHERE FIRE SMOKE DAMPLERS ARE INDICATED ON DRAWINGS, COORDINATE FIRE RATING, POWER, FIRE ALARM, AND MECHANICAL REQUIREMENTS FOR INSTALLATION IN ACCORDANCE WITH ASSOCIATED UL LISTED ASSEMBLY.
- E. REFER TO CEILING DETAIL SHEET(S) FOR GENERAL DETAILS NOT SPECIFICALLY REFERENCED ON THIS SHEET.

KEYNOTES

- 010000.K (N) SOFFIT FOR SPRINKLERS & ELECTRICAL WIRING
- 210000.A (N) FIRE SPRINKLER RISER

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

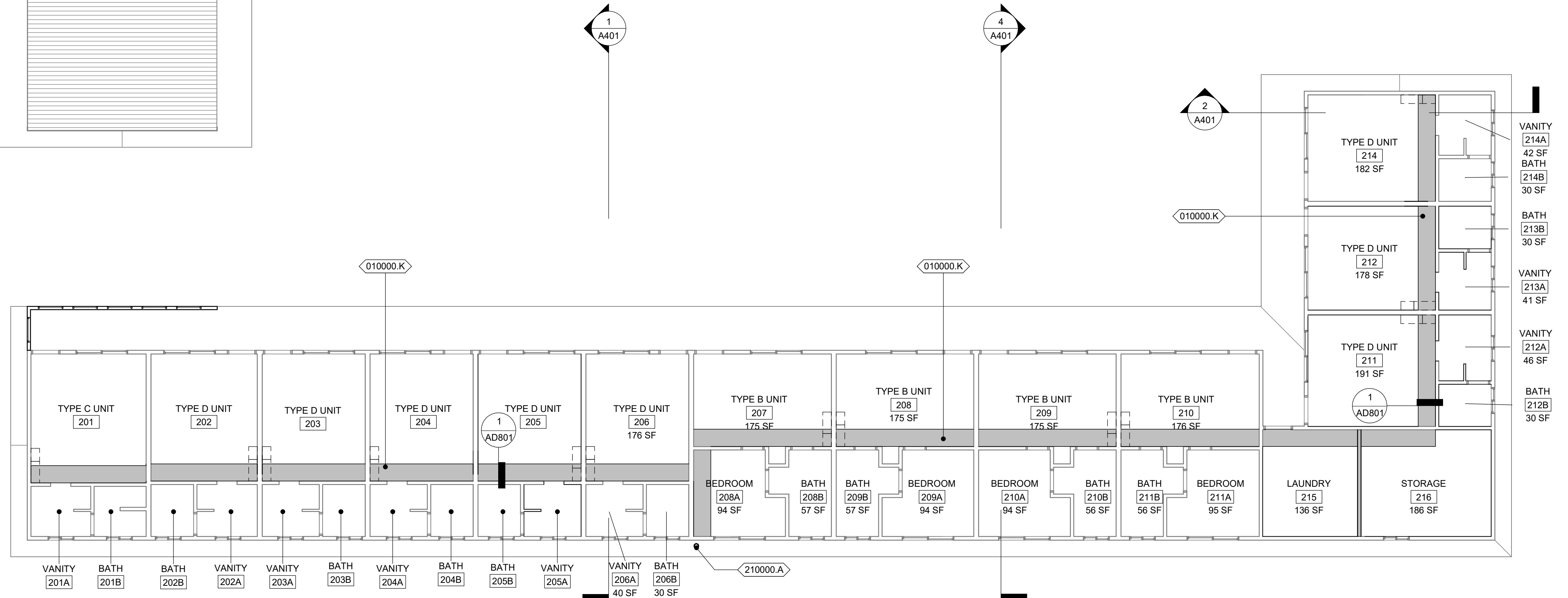
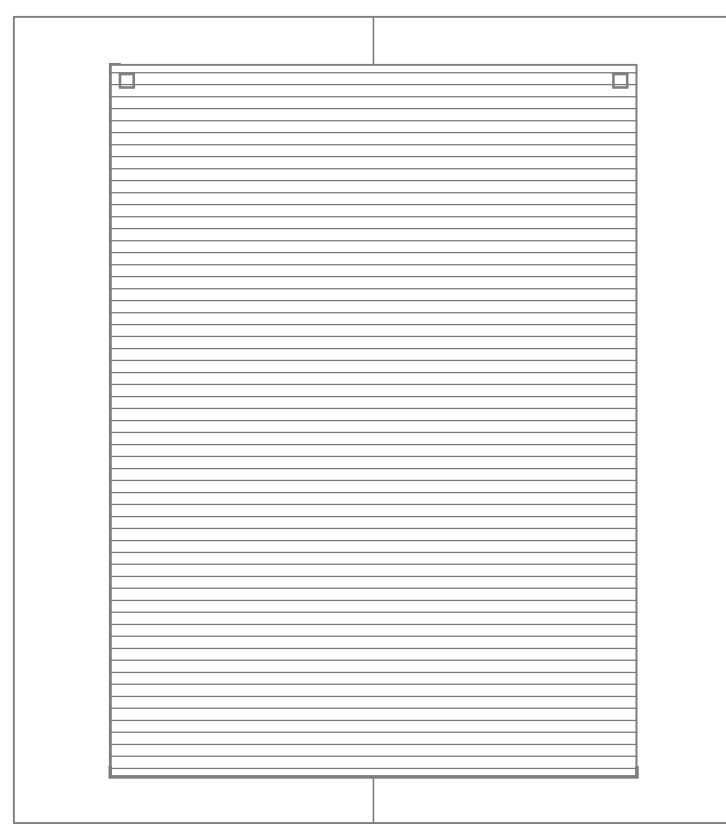
BrokawDesign
 P.O. BOX 3103
 ROHNERT PARK, CA 94927
 WWW.BROKAWDESIGN.COM

PROJECT:
THE LEGACY RENOVATION
 665 L STREET
 CRESCENT CITY, CA
 95531

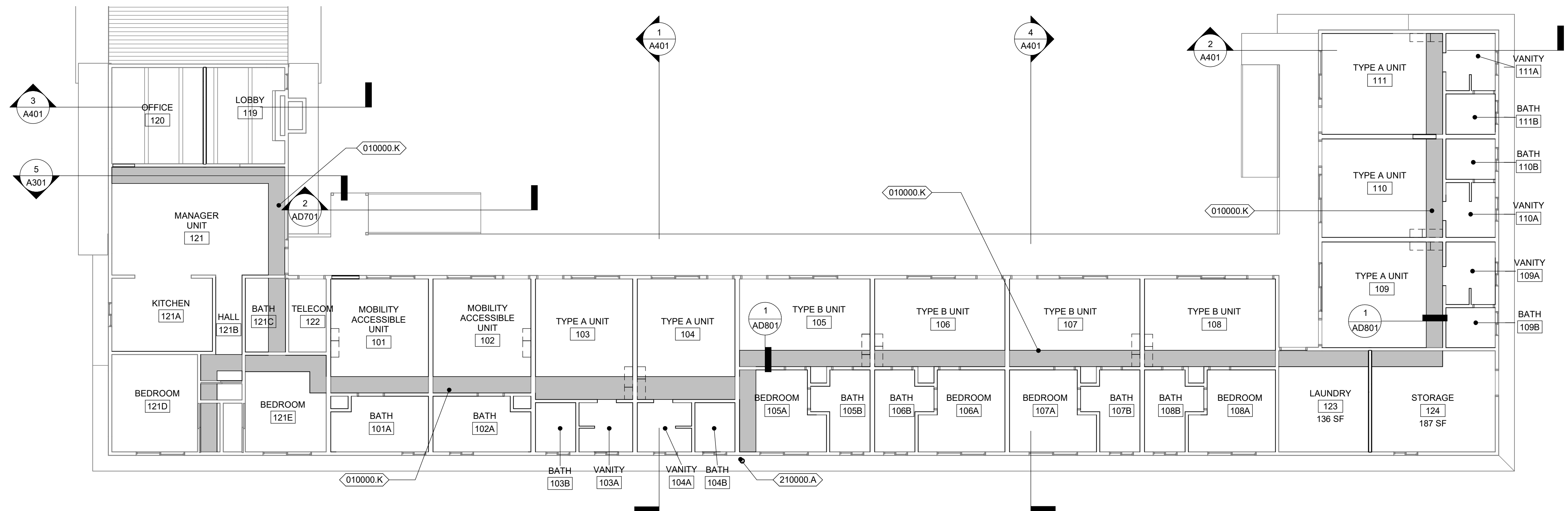
SHEET NAME:
BLDG 1 REFLECTED CEILING PLANS

ISSUE DATE:	3/11/22
PREPARATION AND REVIEW	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	
PEER REVIEW:	
SHEET NUMBER:	

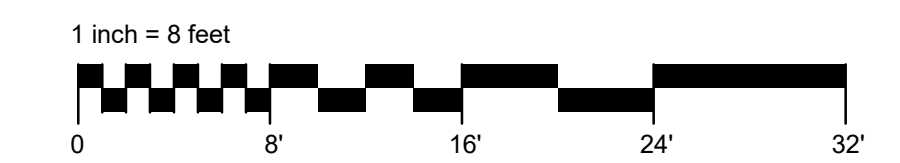
A231



1 BLDG 1 SECOND FLOOR RCP
 1/8" = 1'-0"



2 BLDG 1 FIRST FLOOR RCP
 1/8" = 1'-0"



1

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A

B

C

D

E

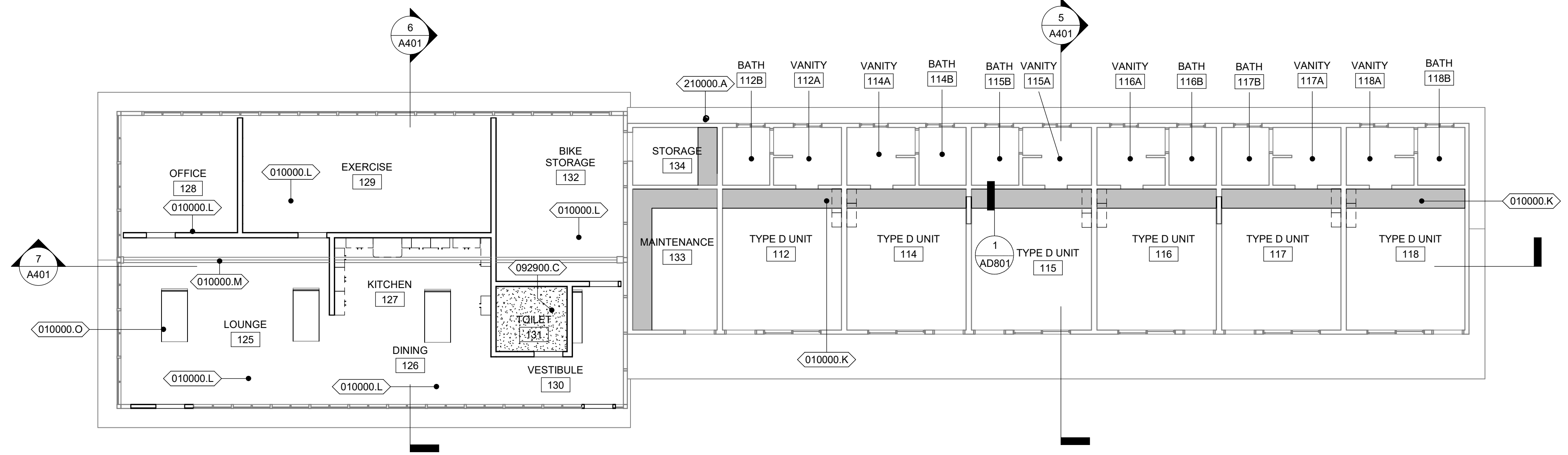
A

B

C

D

E



1 BLDG 2 FIRST FLOOR RCP
1/8" = 1'-0"

GENERAL NOTES

- A. CEILING HEIGHT INDICATED SHALL BE MEASURED FROM THE FINISH FLOOR TO THE FINISH SURFACE OF THE CEILING. SEE FINISH SCHEDULE FOR CEILING HEIGHTS NOT SHOWN.
- B. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE THE CEILING, INCLUDING BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS, INSULATION, CONDUIT RACEWAYS, FIRE SPRINKLER PIPING, LIGHT FIXTURES, AND SUSPENDED CEILING SYSTEMS.
- C. ACCESS PANELS SHALL BE PROVIDED AS REQUIRED FOR PROPER OPERATION AND MAINTENANCE OF MECHANICAL AND ELECTRICAL EQUIPMENT, WHETHER OR NOT INDICATED ON DRAWINGS.
- D. WHERE FIRE SMOKE DAMPLERS ARE INDICATED ON DRAWINGS, COORDINATE FIRE RATING, POWER, FIRE ALARM, AND MECHANICAL REQUIREMENTS FOR INSTALLATION IN ACCORDANCE WITH ASSOCIATED UL LISTED ASSEMBLY.
- E. REFER TO CEILING DETAIL SHEET(S) FOR GENERAL DETAILS NOT SPECIFICALLY REFERENCED ON THIS SHEET.

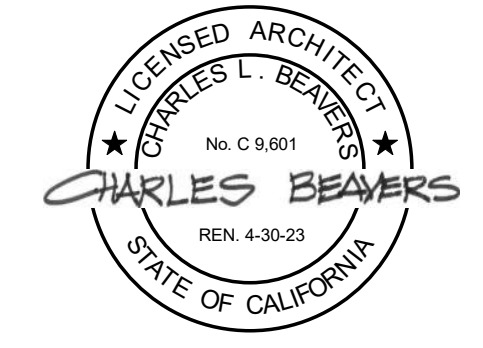
KEYNOTES

- 010000.K (N) SOFFIT FOR SPRINKLERS & ELECTRICAL WIRING
- 010000.L OPEN TO (E) CEILING ABOVE
- 010000.M (E) STEEL BEAM
- 010000.O (E) SKYLIGHT TO REMAIN
- 092900.C (N) GYPSUM BOARD CEILING, SEE STRUCT DRAWINGS FOR FRAMING
- 210000.A (N) FIRE SPRINKLER RISER

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:



CONSULTANT:

BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:

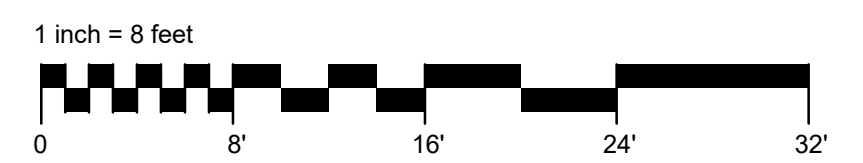
THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

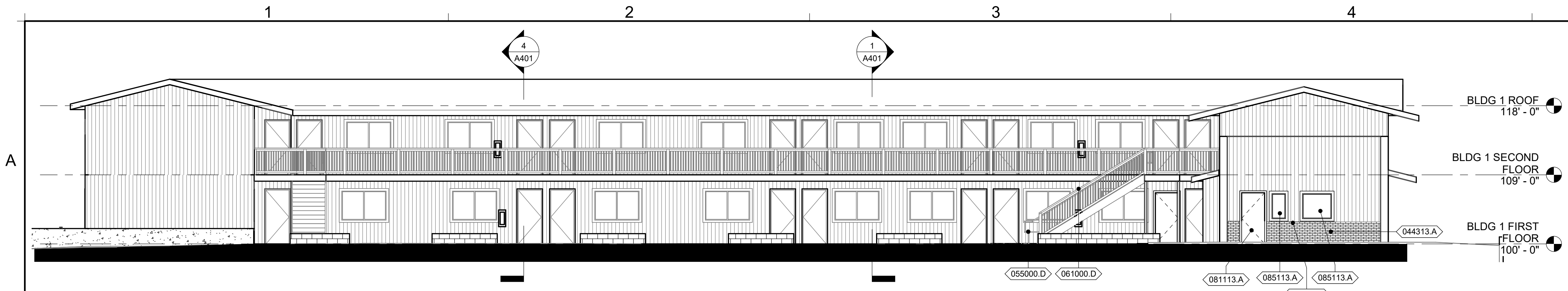
SHEET NAME:

BLDG 2 REFLECTED CEILING PLAN

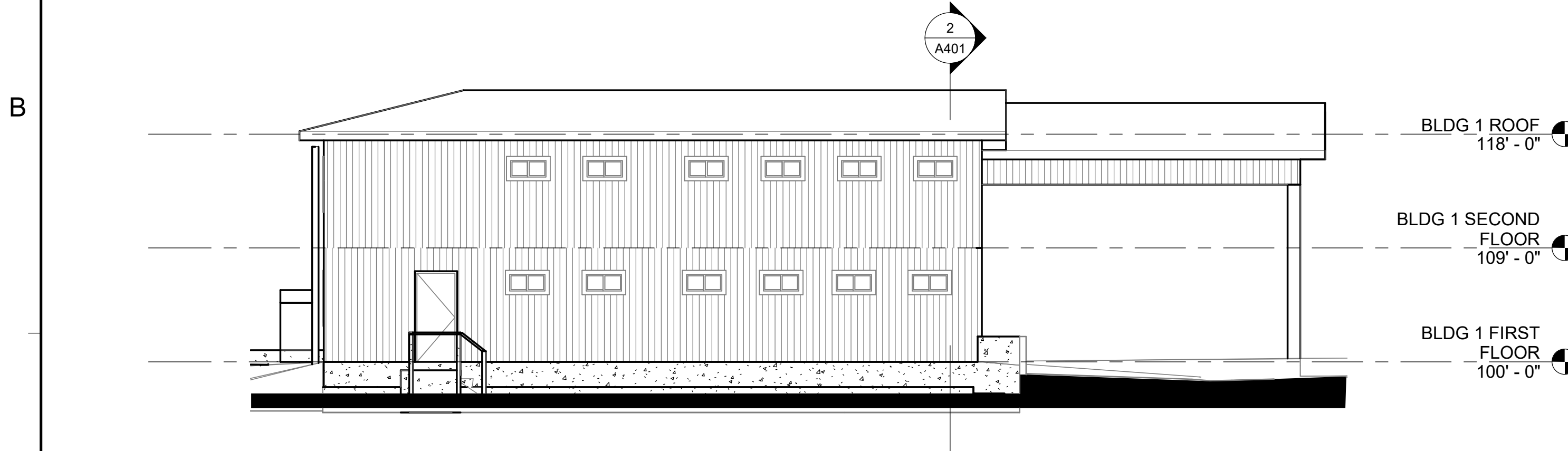
ISSUE DATE:	3/11/22
PREPARATION AND REVIEW	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	
PEER REVIEW:	
SHEET NUMBER:	



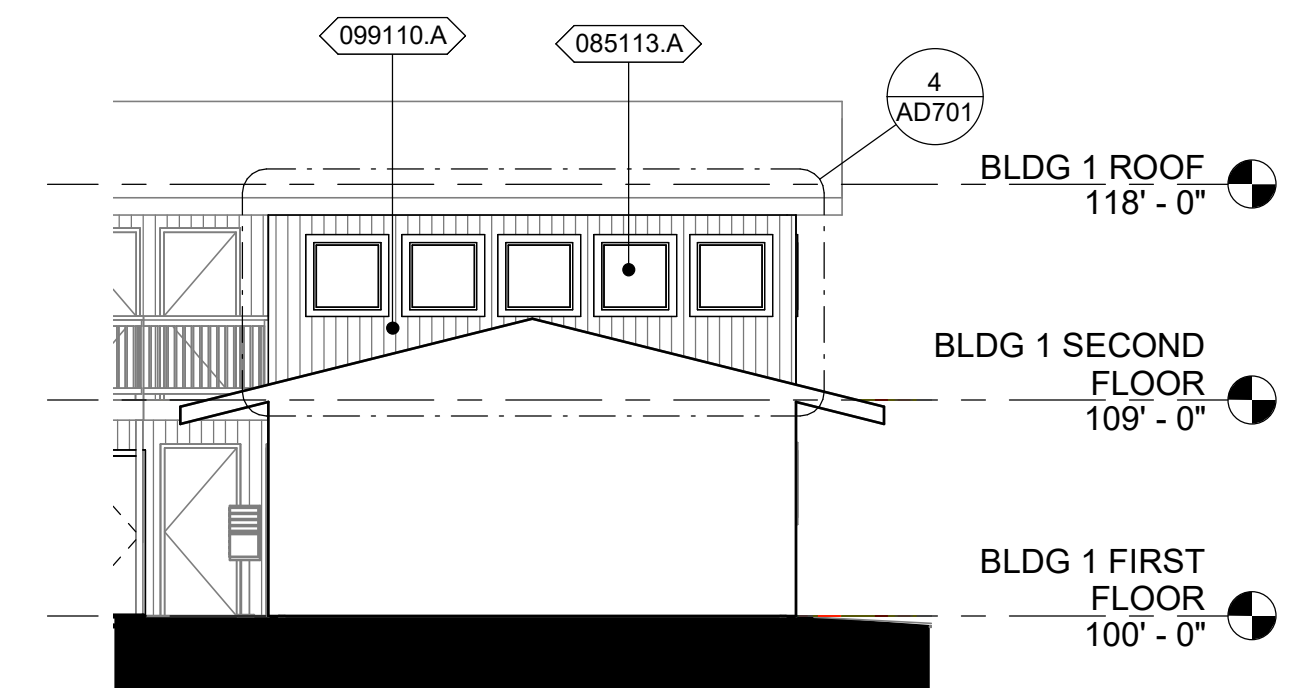
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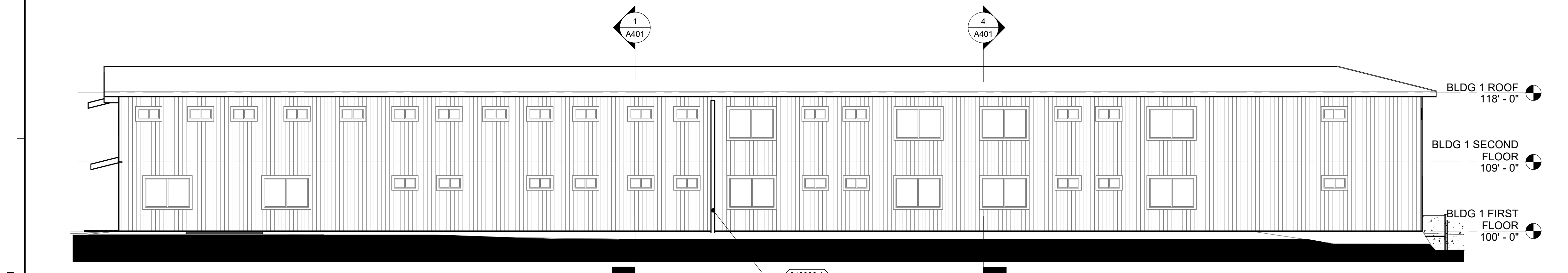
1 BLDG 1 - NORTH-NEW
1/8" = 1'-0"



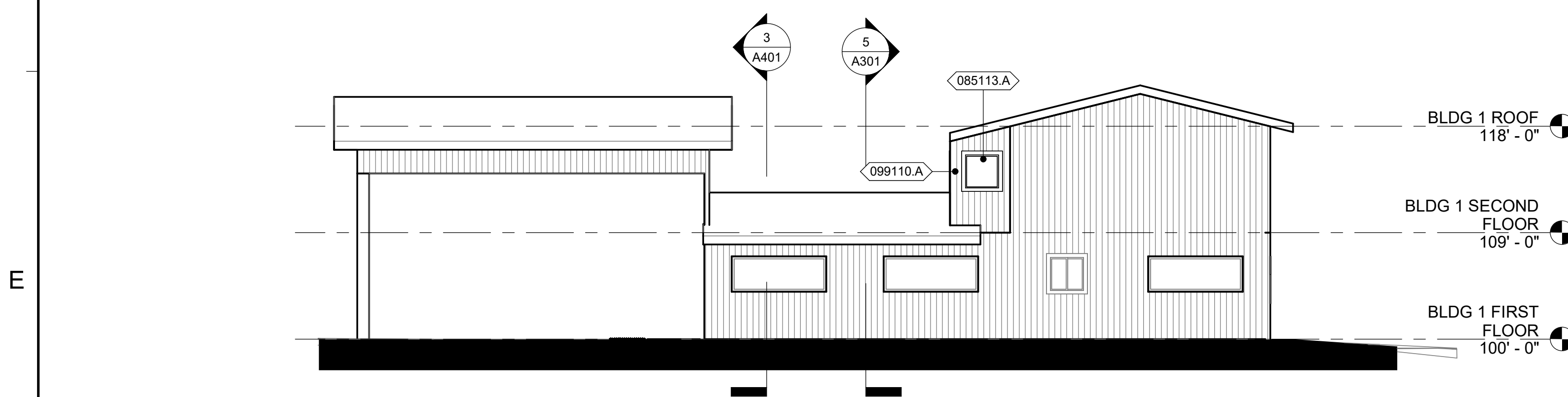
2 BLDG 1 - EAST-NEW
1/8" = 1'-0"



5 BLDG 1 - NORTH PARTIAL
1/8" = 1'-0"



3 BLDG 1 - SOUTH-NEW
1/8" = 1'-0"



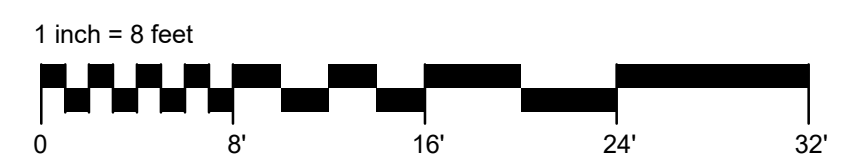
4 BLDG 1 - WEST-NEW
1/8" = 1'-0"

GENERAL NOTES

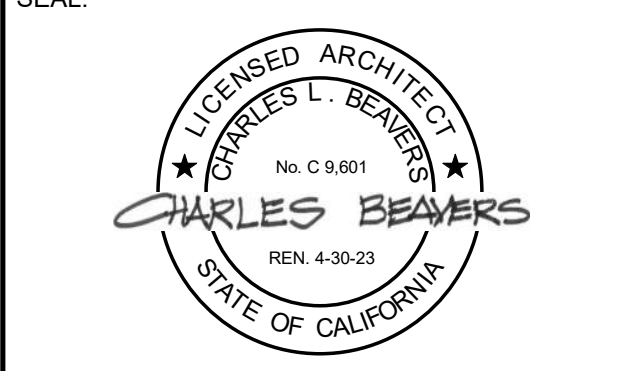
- A. ALL VISIBLE, EXPOSED COMPONENTS NOT FACTORY PRE-FINISHED SHALL BE FIELD PAINTED, INCLUDING DOOR FRAMES, DOORS, WALLS, COLUMNS, BEAMS, FASCIA'S, SOFFITS, FLUES, PIPES, CONDUIT, RAIN WATER LEADERS, HANDRAILS, GUTTERS, FLASHING, LOUVERS, VENTS, ETC.
- B. COLORS NOTED ARE TO ESTABLISH THE DESIGN INTENT FOR MATERIAL, HUE, TEXTURE, AND FINISH ARE NOT LIMITING SOURCE OF FINISH MATERIAL. ARCHITECT SHALL DETERMINE IF SUBMITTED FINISHES MEET THE DESIGN INTENT AND SHALL NOT BE LIMITED TO MANUFACTURER'S STOCK OR STANDARD COLORS.
- C. DOWNSPOUTS, GUTTERS, SCUPPERS, COPINGS AND FLASHING TO MATCH ADJACENT FINISH COLORS.
- D. REFER TO FINISH LEGEND FOR EXTERIOR FINISHES, MATERIALS AND COLORS.
- E. REFER TO DOOR SCHEDULE FOR DOOR TYPES AND DIMENSIONS.
- F. REFER TO WINDOW SCHEDULE FOR WINDOW TYPES AND DIMENSIONS.
- G. REFER TO SIGNAGE DETAILS FOR SIGNAGE INFORMATION.

KEYNOTES

- 044313.A PATCH STONE VENEER TO MATCH EXISTING
- 055000.D (N) GALVANIZED STEEL HANDRAIL
- 061000.D ADD WOOD TO TOP OF GUARDRAIL TO RAISE HEIGHT
- 081113.A (N) HOLLOW METAL DOOR
- 085113.A (N) ALUMINUM FIXED WINDOW(S), SEE WINDOW SCHEDULE
- 099110.A PAINT (N) WALL TO MATCH ADJACENT SURFACES
- 210000.A (N) FIRE SPRINKLER RISER



REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:
EXTERIOR ELEVATIONS - BUILDING 1

ISSUE DATE: 3/11/22
PREPARATION AND REVIEW
DRAWN BY:
DESIGNER:
PROJ MGR:
PEER REVIEW: CB
SHEET NUMBER:

A301

1

2

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4

5

A

B

C

D

E

A

B

C

D

E

GENERAL NOTES

- A. ALL VISIBLE, EXPOSED COMPONENTS NOT FACTORY PRE-FINISHED SHALL BE FIELD PAINTED, INCLUDING DOOR FRAMES, DOORS, WALLS, COLUMNS, BEAMS, FASCIA'S, SOFFITS, FLUES, PIPES, CONDUIT, RAIN WATER LEADERS, HANDRAILS, GUTTERS, FLASHING, LOUVERS, VENTS, ETC.
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- E. REFER TO DOOR SCHEDULE FOR DOOR TYPES AND DIMENSIONS.
- F. REFER TO WINDOW SCHEDULE FOR WINDOW TYPES AND DIMENSIONS.
- G. REFER TO SIGNAGE DETAILS FOR SIGNAGE INFORMATION.

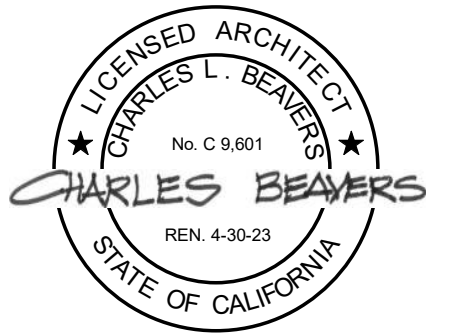
KEYNOTES

- 010000.D (E) WINDOW WALL TO REMAIN
- 033000.F (N) CONCRETE RAMP
- 055000.D (N) GALVANIZED STEEL HANDRAIL
- 081113.A (N) HOLLOW METAL DOOR
- 099110.A PAINT (N) WALL TO MATCH ADJACENT SURFACES
- 210000.A (N) FIRE SPRINKLER RISER

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:



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PROJECT:

THE LEGACY RENOVATION

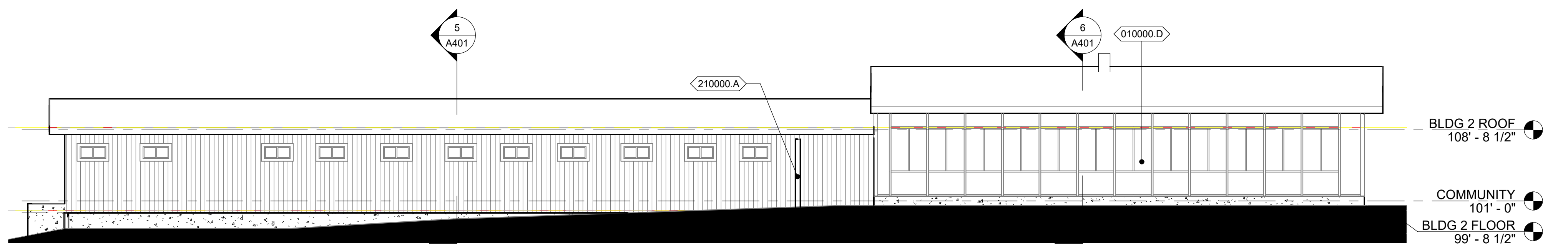
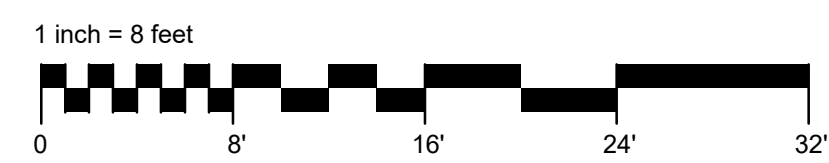
665 L STREET
 CRESCENT CITY, CA
 95531

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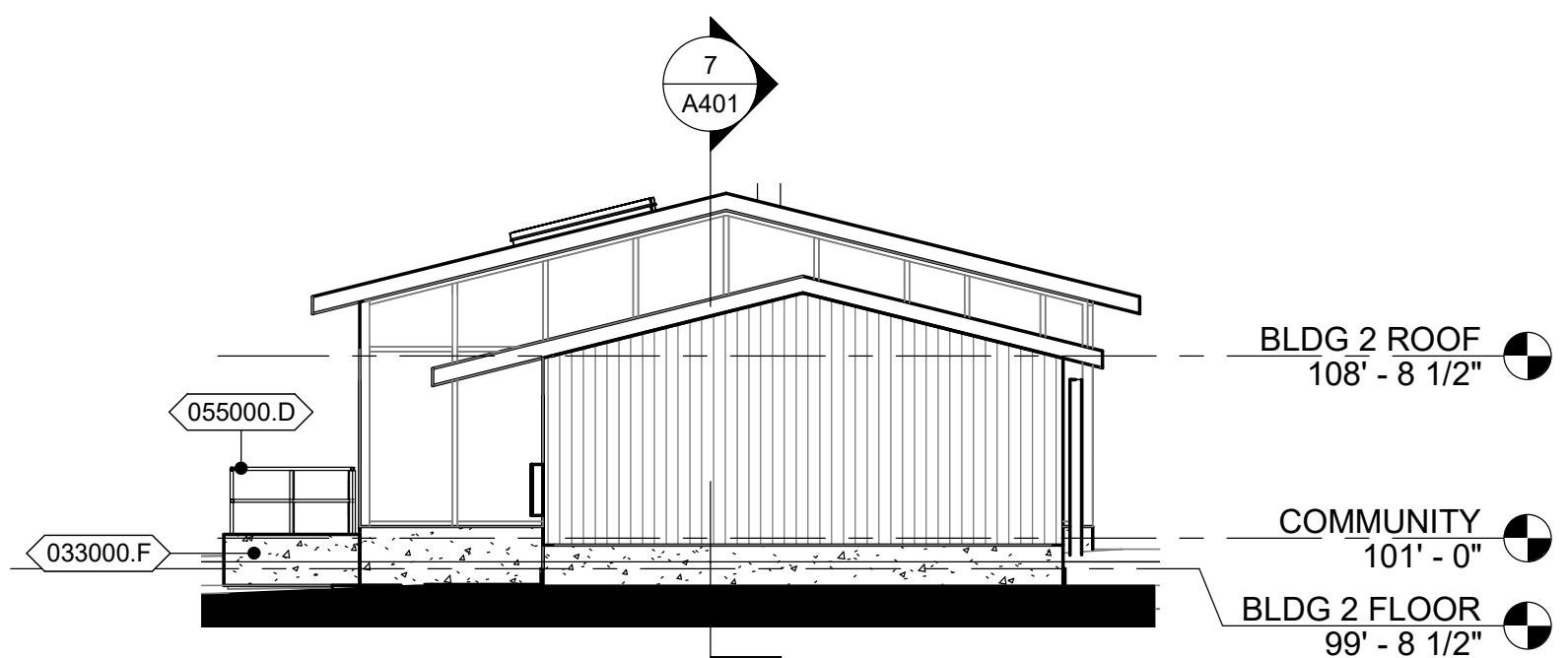
EXTERIOR ELEVATIONS - BUILDING 2

ISSUE DATE:	3/11/22
PREPARATION AND REVIEW	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	
PEER REVIEW:	
SHEET NUMBER:	

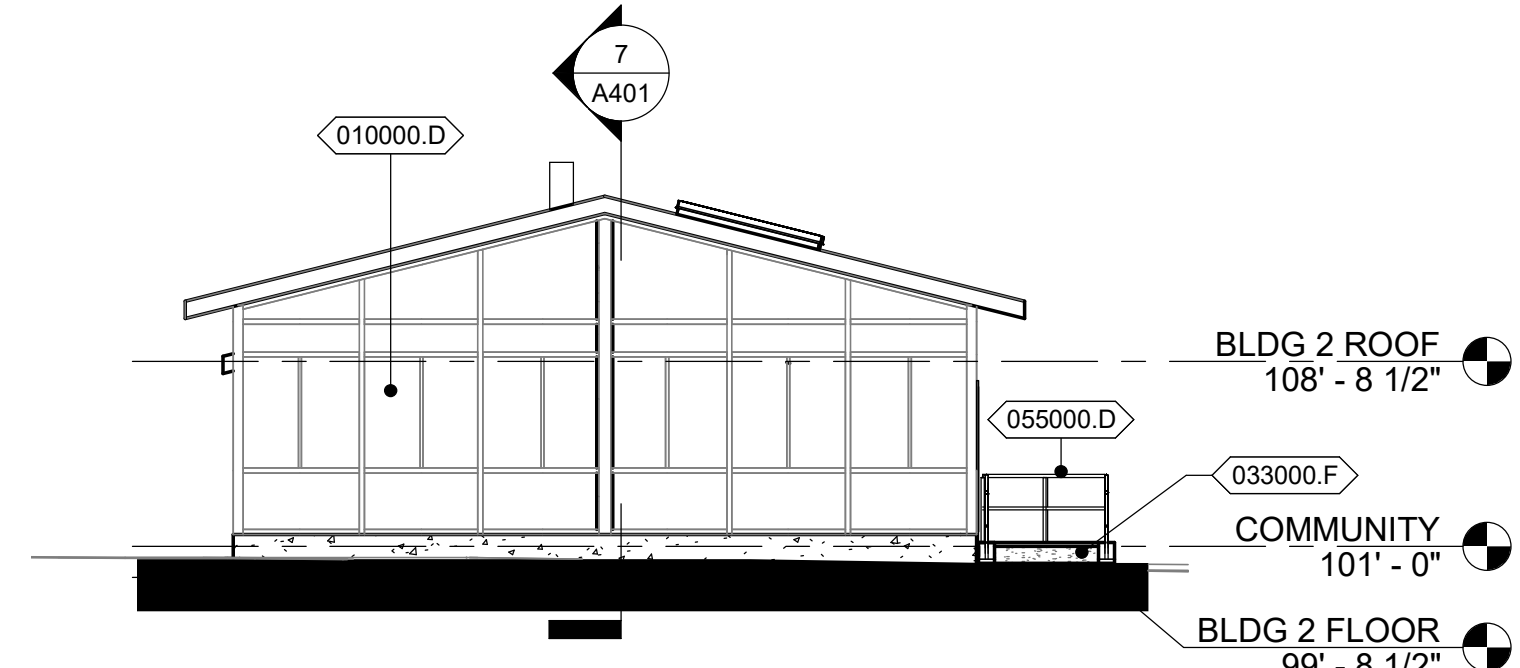
A302



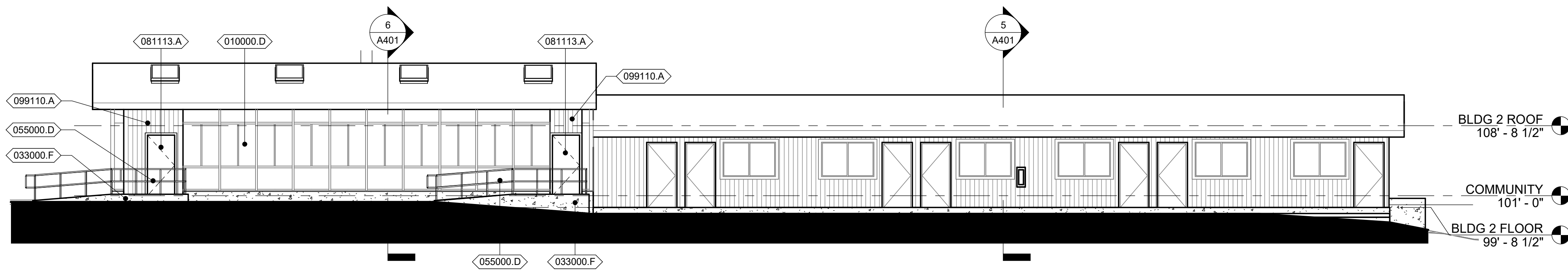
1 BLDG 2 - NORTH-NEW
 1/8" = 1'-0"



2 BLDG 2 - EAST-NEW
 1/8" = 1'-0"



3 BLDG 2 - WEST-NEW
 1/8" = 1'-0"



4 BLDG 2 - SOUTH-NEW
 1/8" = 1'-0"

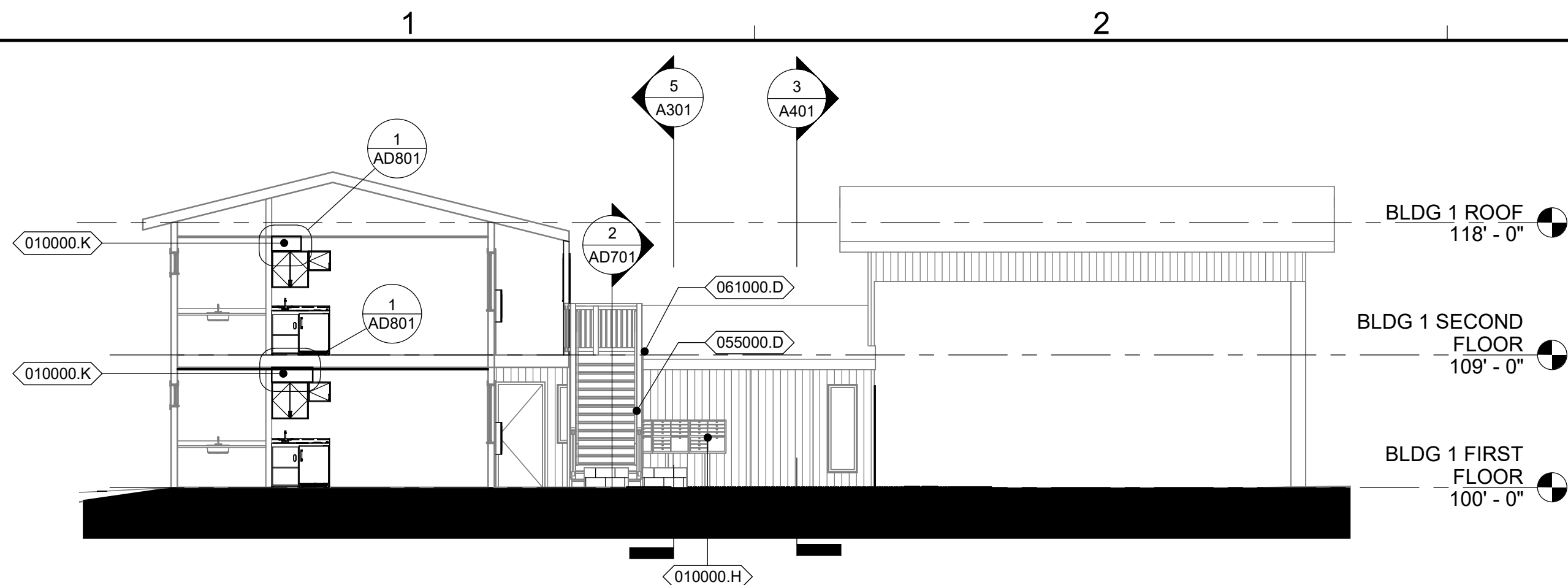
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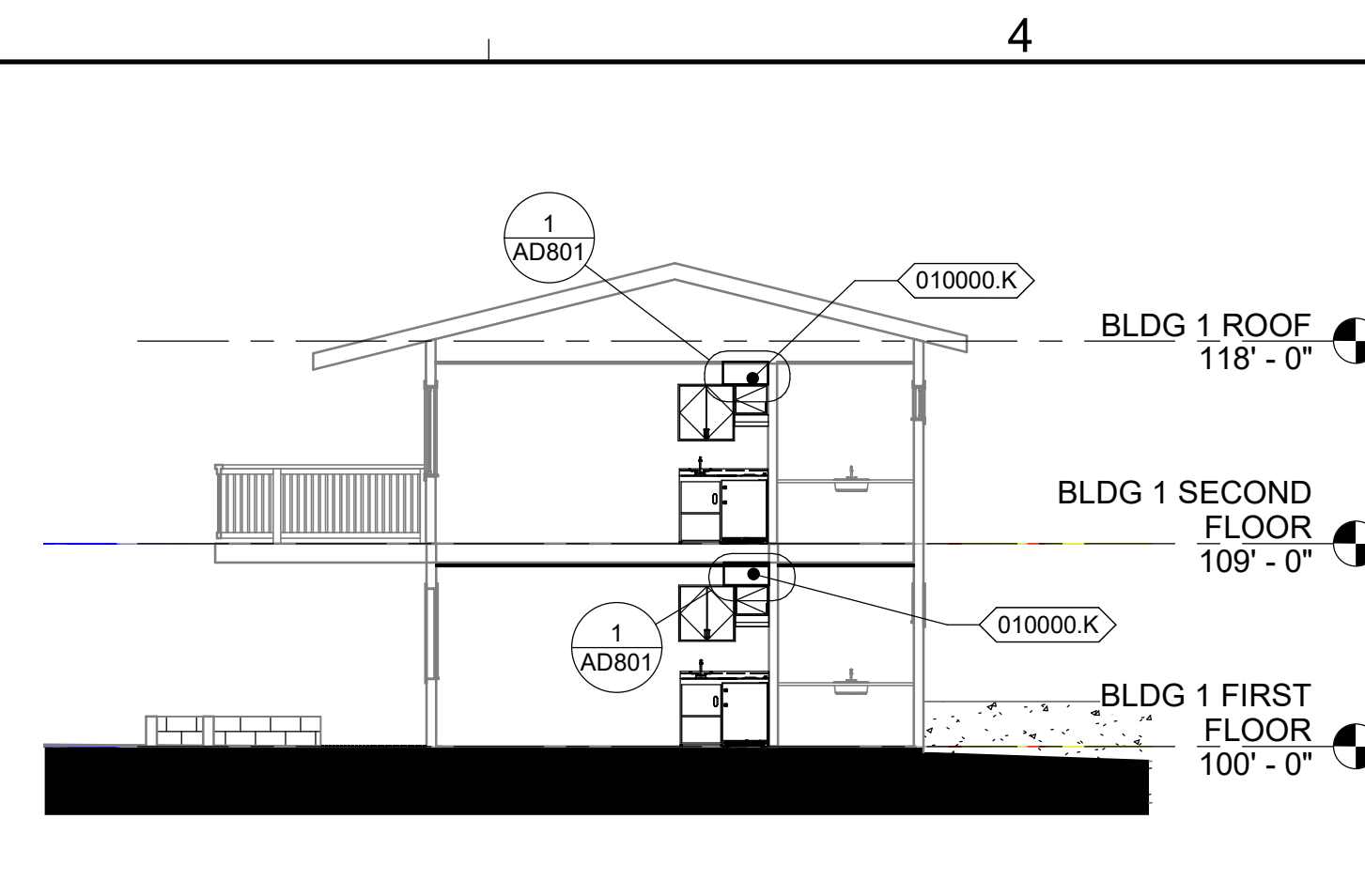
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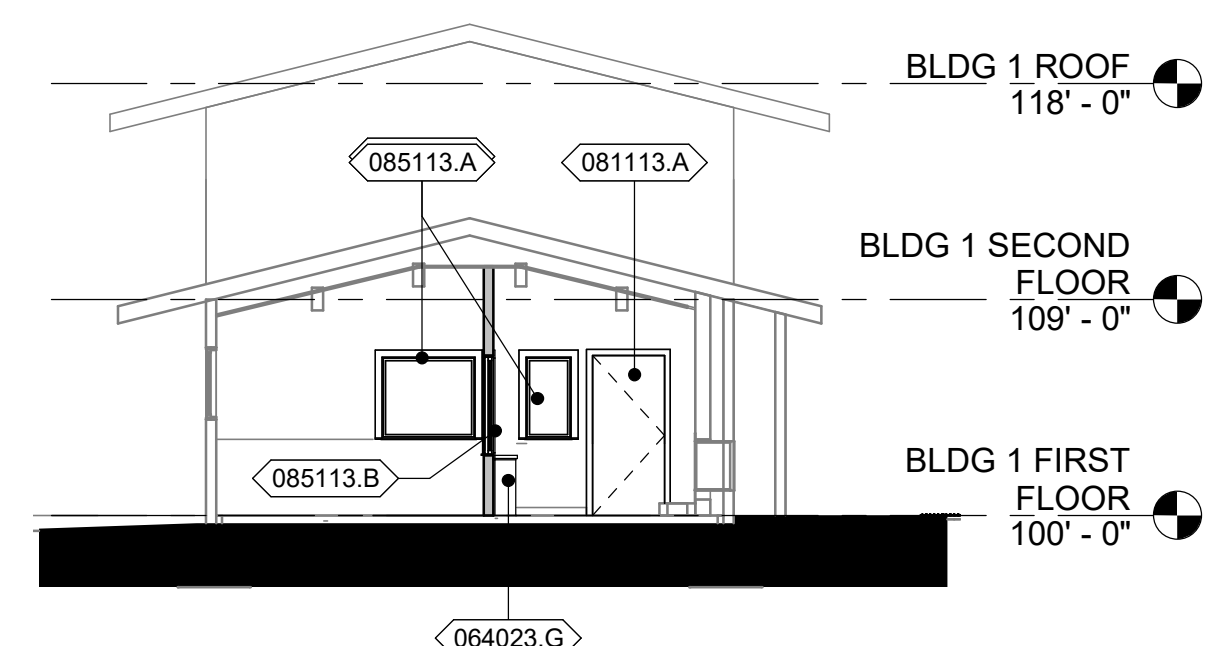
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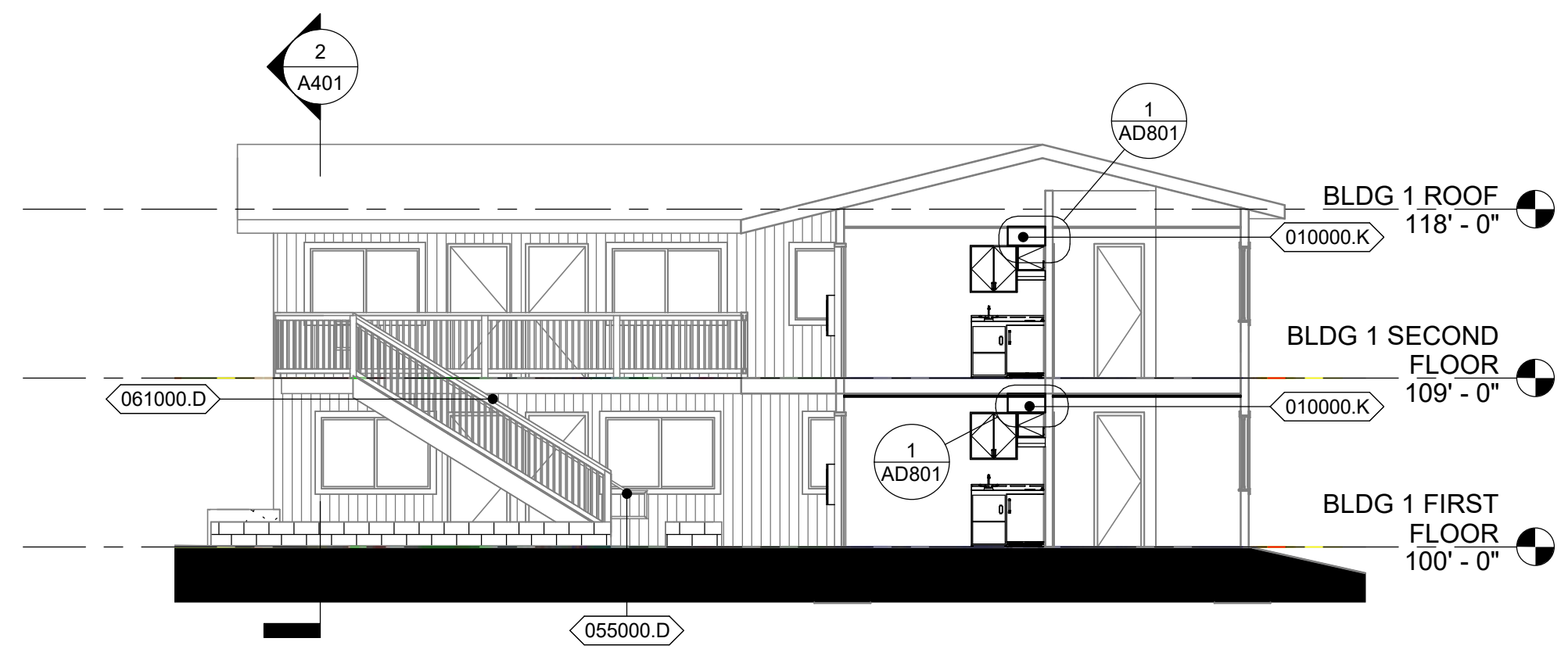
1 BLDG 1 CROSS SECTION 1
1/8" = 1'-0"



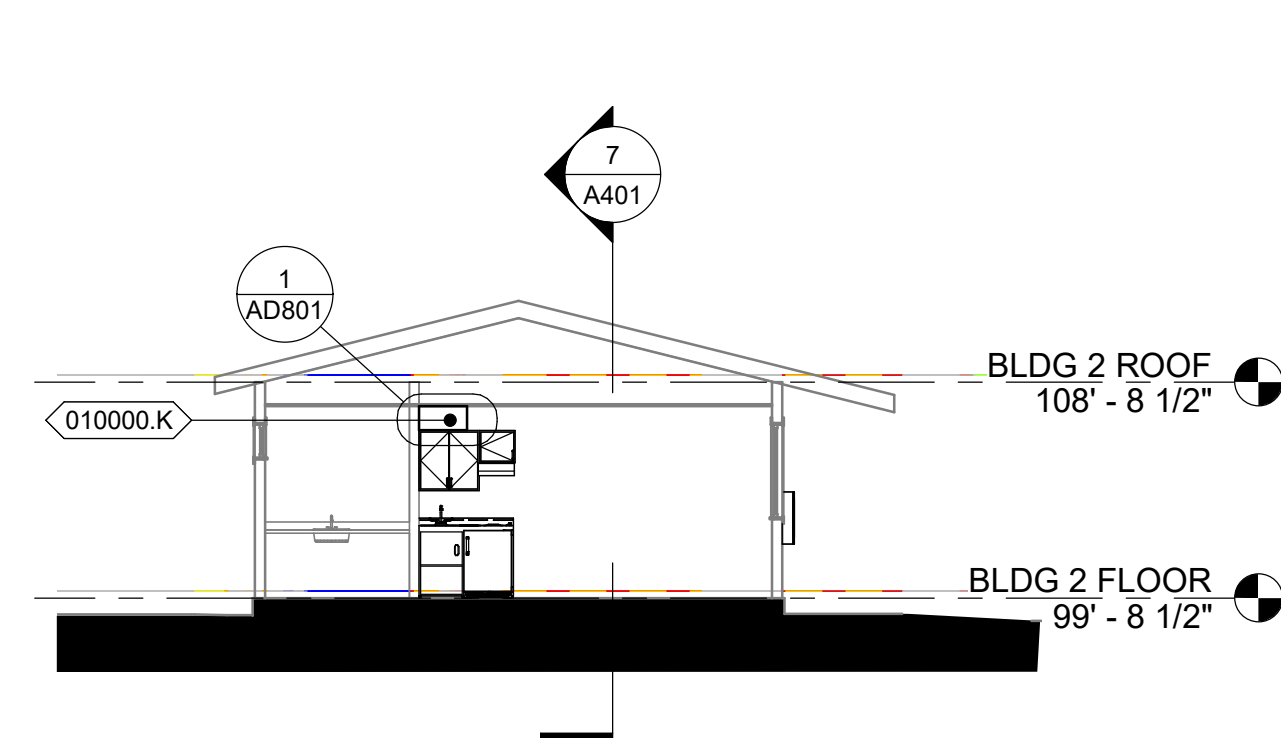
2 BLDG 1 CROSS SECTION 2
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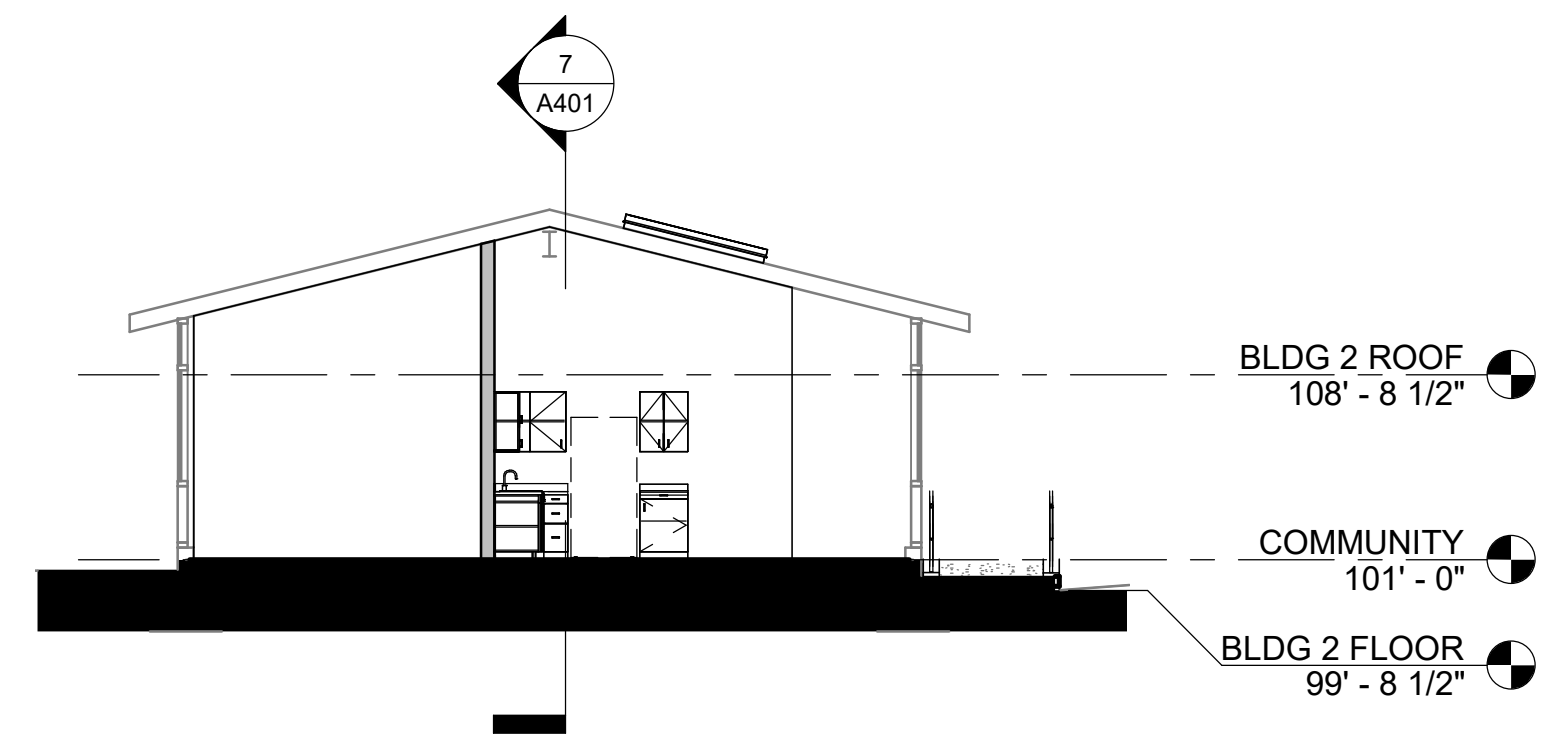
3 BLDG 1 SECTION THRU LOBBY
1/8" = 1'-0"



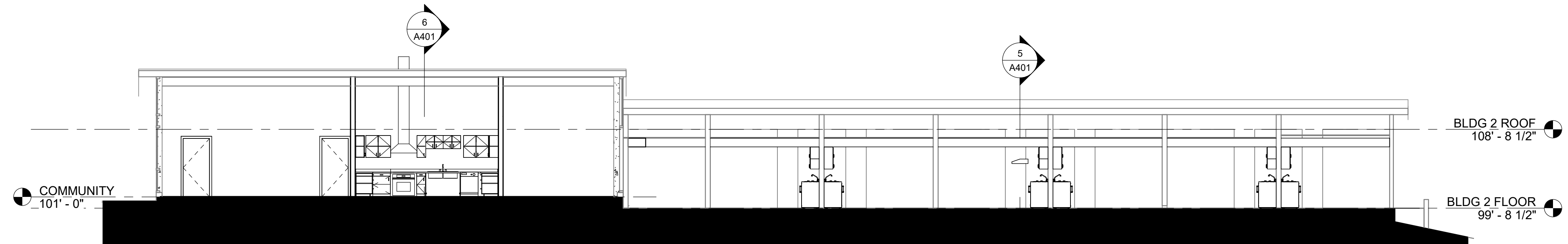
4 BLDG 1 CROSS SECTION 3
1/8" = 1'-0"



5 BLDG 2 CROSS SECTION
1/8" = 1'-0"



6 BLDG 2 CROSS SECTION THRU COMMUNITY
1/8" = 1'-0"



7 BLDG 2 LONGITUDINAL SECTION
1/8" = 1'-0"

GENERAL NOTES

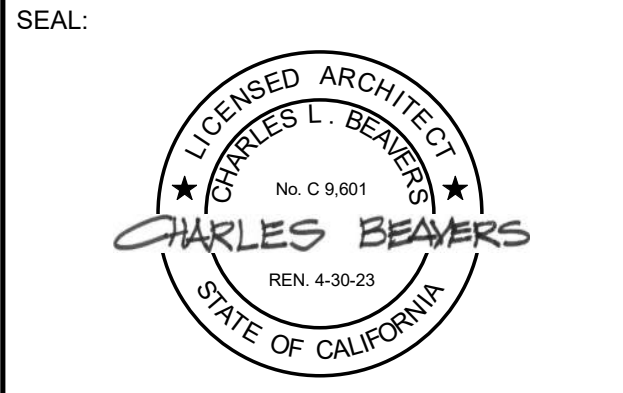
- A. BUILDING SECTIONS SHOW OVERALL BUILDING ENVELOPES AND REFERENCE MORE DETAILED DRAWINGS. SEE REFERENCED DETAILS FOR MORE SPECIFIC INFORMATION.
- B. BUILDING COMPONENTS IN ELEVATION VIEW ARE SHOWN ON SECTIONS FOR REFERENCE ONLY. REFER TO EXTERIOR AND INTERIOR ELEVATIONS FOR MORE SPECIFIC INFORMATION.
- C. HVAC UNITS AND OTHER MECHANICAL COMPONENTS ARE SHOWN IN SECTIONS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION.

KEYNOTES

- 010000.H (E) MAILBOXES TO REMAIN
- 010000.K (N) SOFFIT FOR SPRINKLERS & ELECTRICAL WIRING
- 055000.D (N) GALVANIZED STEEL HANDRAIL
- 061000.D ADD WOOD TO TOP OF GUARDRAIL TO RAISE HEIGHT
- 064023.G (N) TRANSACTION COUNTER, 12" X 36"
- 081113.A (N) HOLLOW METAL DOOR
- 085113.A (N) ALUMINUM FIXED WINDOW(S), SEE WINDOW SCHEDULE
- 085113.B (N) ALUMINUM SLIDING WINDOW

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
THE LEGACY RENOVATION

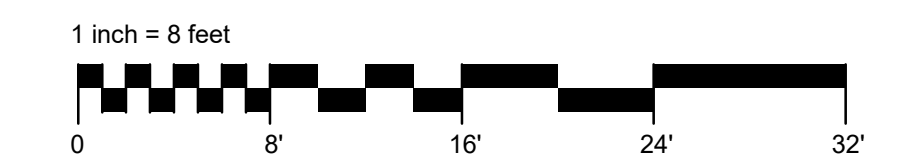
665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:
BUILDING SECTIONS

ISSUE DATE: 3/11/22
PREPARATION AND REVIEW

DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	
PEER REVIEW:	

SHEET NUMBER:



A401

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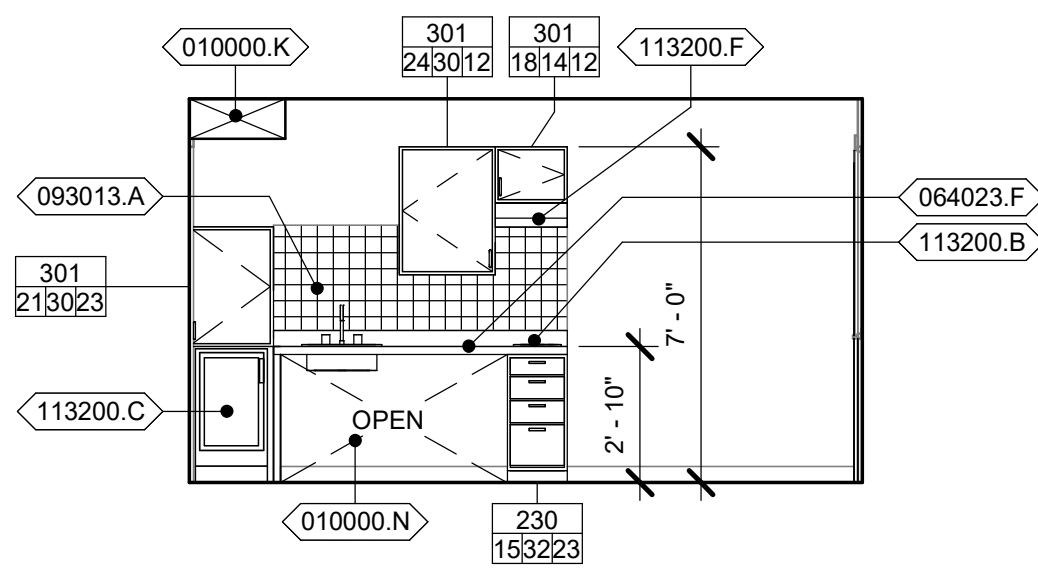
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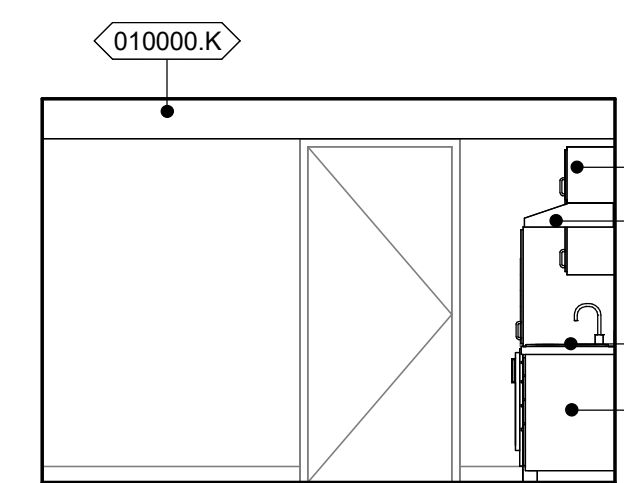
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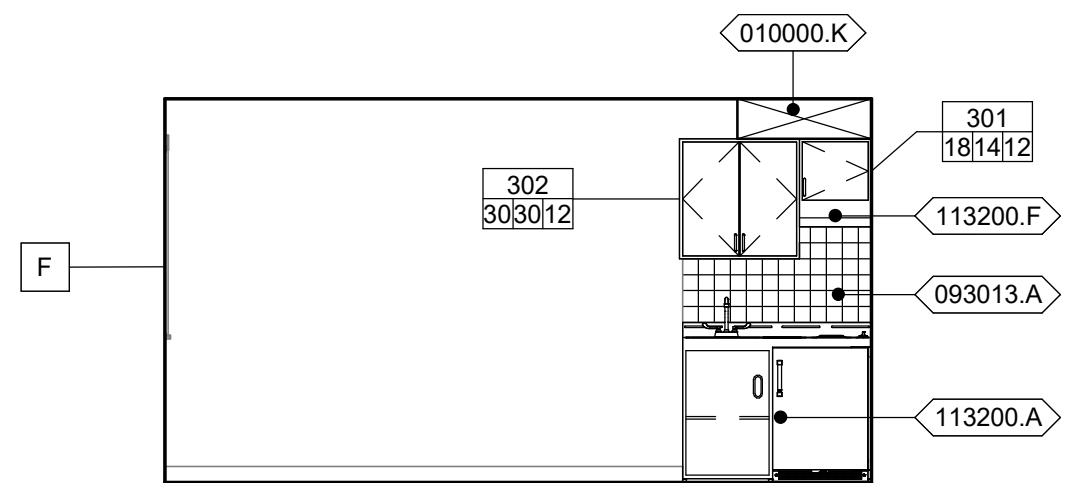
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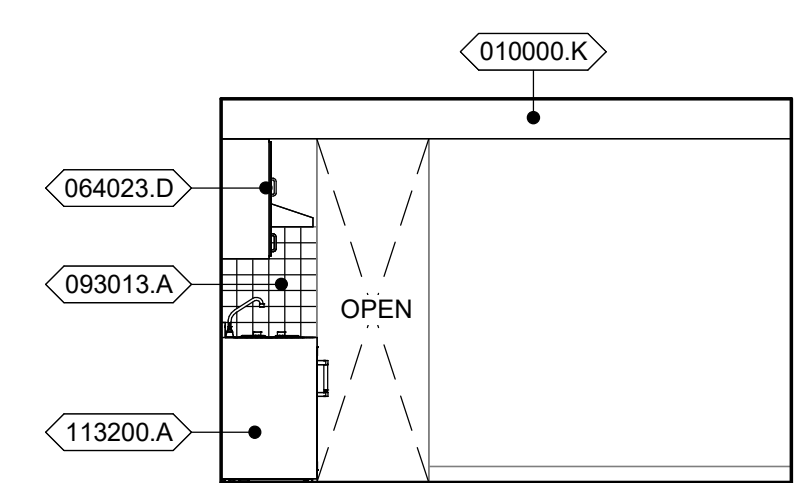
1 MOBILITY ACCESSIBLE UNIT WEST
1/4" = 1'-0"



2 MOBILITY ACCESSIBLE UNIT SOUTH
1/4" = 1'-0"



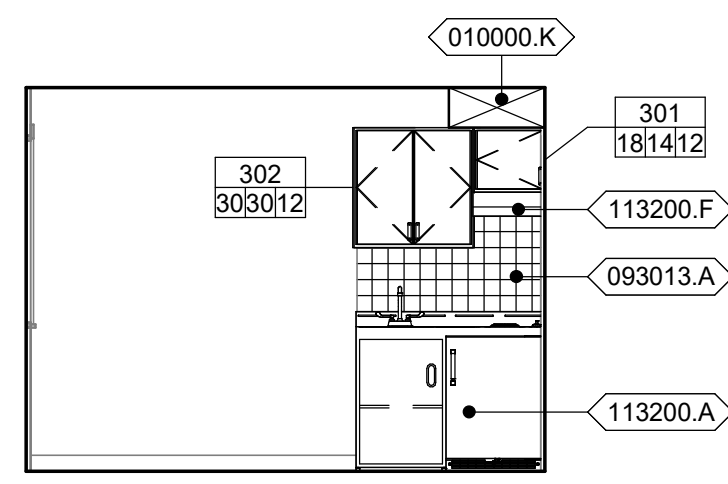
3 TYPE A UNIT EAST
1/4" = 1'-0"



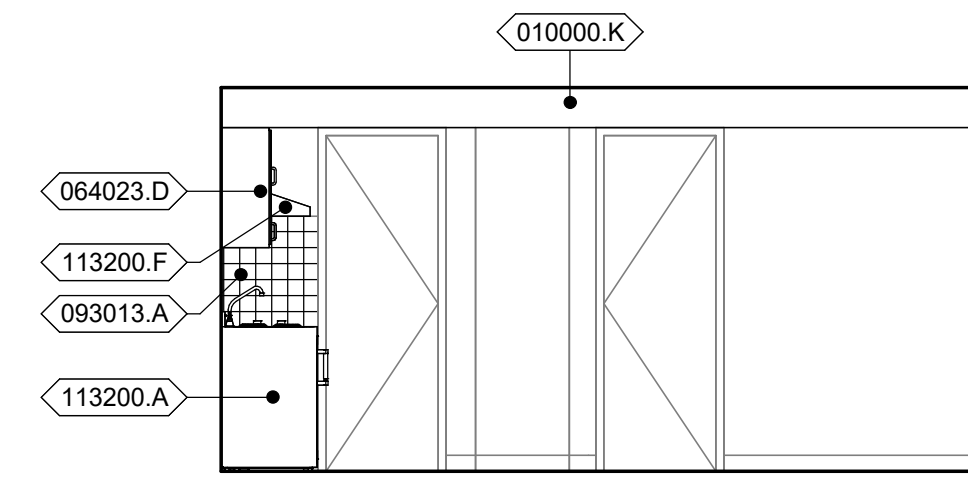
4 TYPE A UNIT SOUTH
1/4" = 1'-0"

B

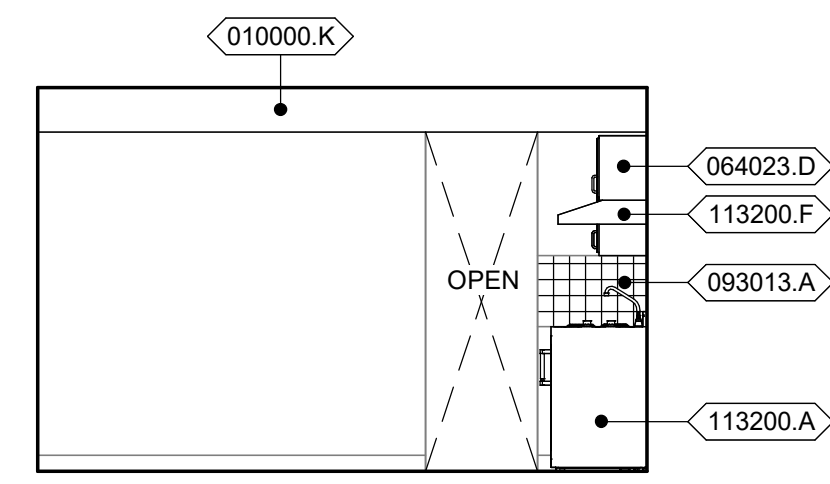
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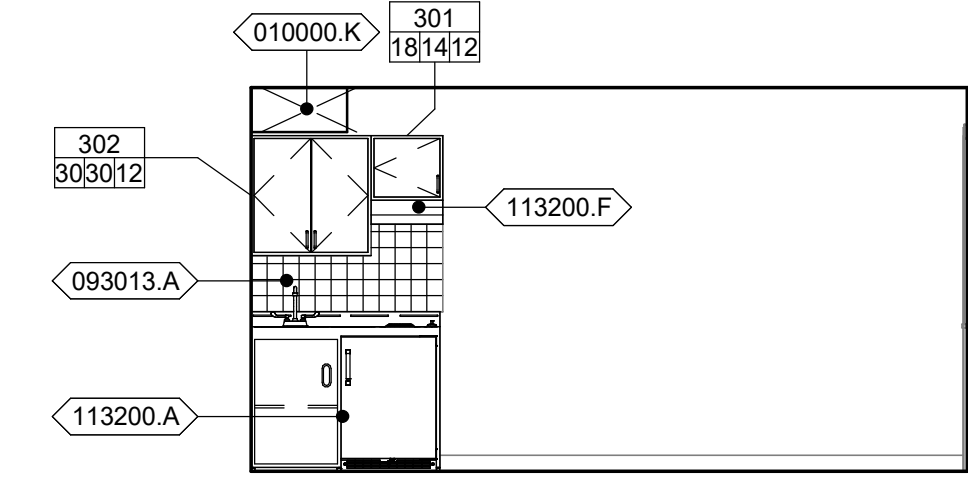
5 TYPE B UNIT EAST
1/4" = 1'-0"



6 TYPE B UNIT SOUTH
1/4" = 1'-0"



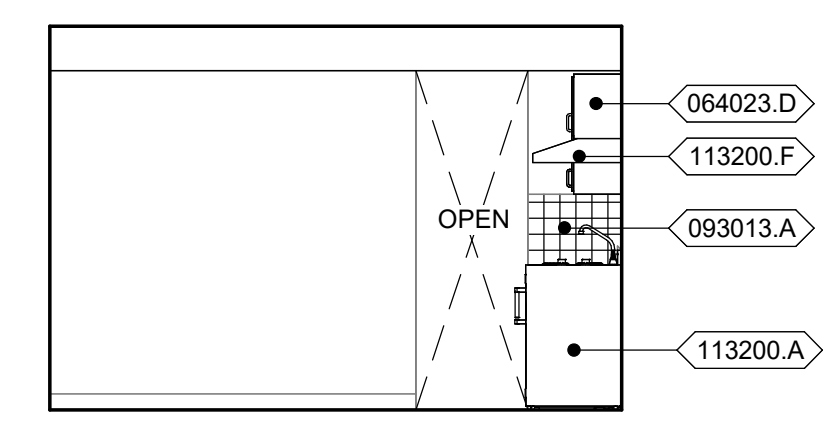
7 TYPE C UNIT SOUTH
1/4" = 1'-0"



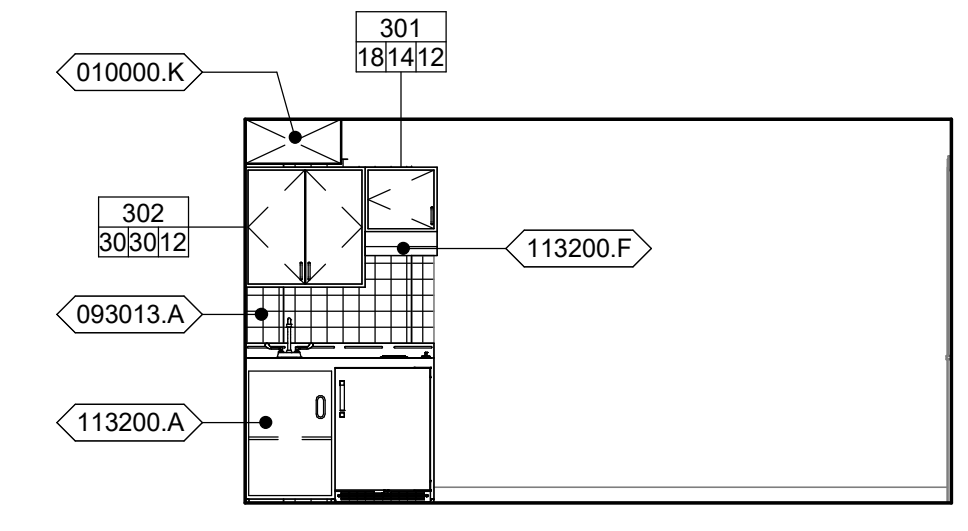
8 TYPE C UNIT WEST
1/4" = 1'-0"

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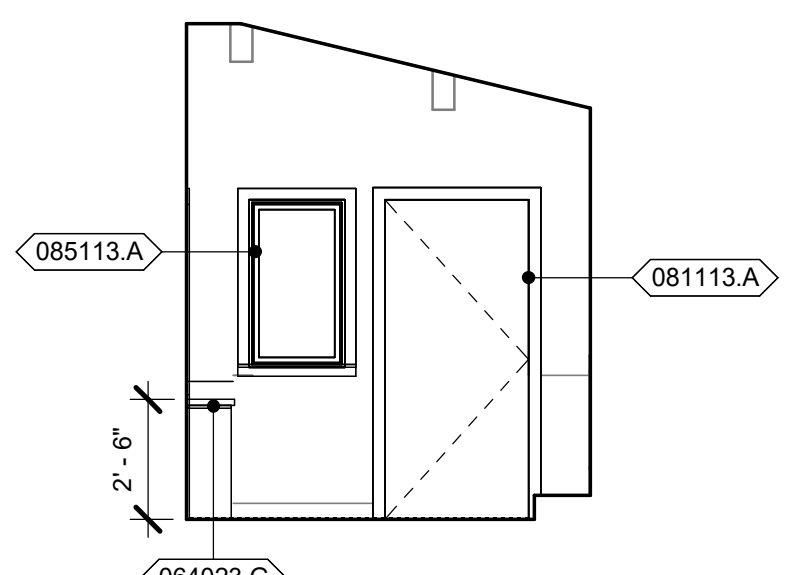
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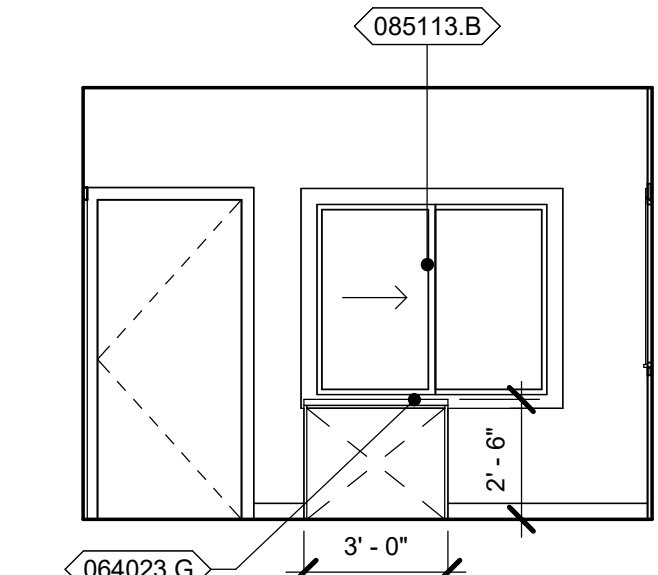
9 TYPE D UNIT SOUTH
1/4" = 1'-0"



10 TYPE D UNIT WEST
1/4" = 1'-0"



11 119 LOBBY NORTH
1/4" = 1'-0"



12 119 LOBBY EAST
1/4" = 1'-0"

D

D

E

E

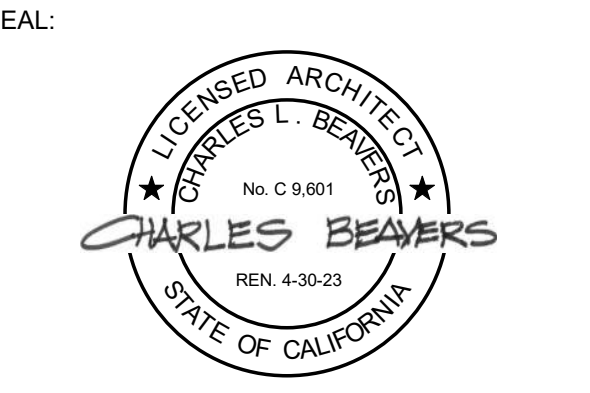
GENERAL NOTES

- A. REFER TO ROOM FINISH SCHEDULE AND INTERIOR DRAWINGS FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS.
- B. SEE 14/A801 FOR LAVATORY COUNTERTOP SUPPORT DETAIL.
- C. SEE 13/A801 FOR TOILET PARTITION ATTACHMENT DETAIL.
- D. SEE 15/A801 FOR MIRROR ATTACHMENT DETAIL.
- E. SEE 17/A801 FOR CERAMIC TILE WALL BASE TRIM DETAIL.
- F. FIELD PAINT ALL EXPOSED CONDUITS AND PIPES UNLESS OTHERWISE NOTED.
- G. REFER TO ACCESSIBLE FIXTURE DETAILS FOR FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.
- H. PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. REFER TO TYPICAL BACKING AND BLOCKING DETAILS, 13 / A802 AND 14 / A802.
- I. WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

KEYNOTES

- 010000.K (N) SOFFIT FOR SPRINKLERS & ELECTRICAL WIRING
- 010000.N KNEE SPACE
- 064023.C (N) BASE CABINETS
- 064023.D (N) WALL HUNG CABINETS
- 064023.F (N) PLASTIC LAMINATE COUNTERTOP
- 064023.G (N) TRANSACTION COUNTER, 12" X 36"
- 081113.A (N) HOLLOW METAL DOOR
- 085113.A (N) ALUMINUM FIXED WINDOW(S), SEE WINDOW SCHEDULE
- 085113.B (N) ALUMINUM SLIDING WINDOW
- 093013.A (N) CERAMIC WALL TILE
- 113200.A KITCHENETTE
- 113200.B COOKTOP
- 113200.C UNDERCOUNTER REFRIGERATOR
- 113200.F (N) UNDER CABINET RANGE HOOD

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:

THE LEGACY RENOVATION

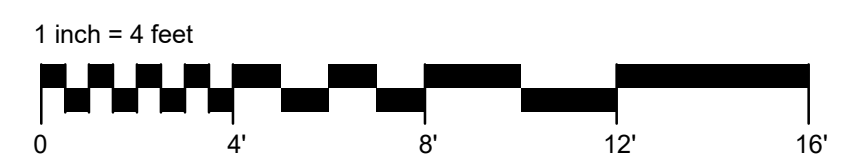
665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:

INTERIOR ELEVATIONS

ISSUE DATE:	3/11/22
PREPARATION AND REVIEW	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	
PEER REVIEW:	
SHEET NUMBER:	

A501



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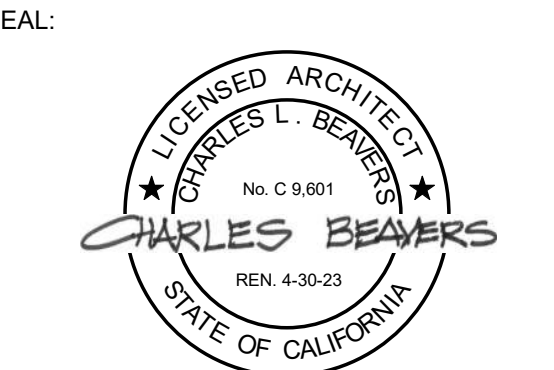
GENERAL NOTES

- A. REFER TO ROOM FINISH SCHEDULE AND INTERIOR DRAWINGS FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS.
- B. SEE 14/A801 FOR LAVATORY COUNTERTOP SUPPORT DETAIL.
- C. SEE 13/A801 FOR TOILET PARTITION ATTACHMENT DETAIL.
- D. SEE 15/A801 FOR MIRROR ATTACHMENT DETAIL.
- E. SEE 17/A801 FOR CERAMIC TILE WALL BASE TRIM DETAIL.
- F. FIELD PAINT ALL EXPOSED CONDUITS AND PIPES UNLESS OTHERWISE NOTED.
- G. REFER TO ACCESSIBLE FIXTURE DETAILS FOR FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.
- H. PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND TOILET ACCESSORY MOUNTING LOCATIONS. REFER TO TYPICAL BACKING AND BLOCKING DETAILS, 13 / A802 AND 14 / A802.
- I. WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

KEYNOTES

- 010000.J REFRIGERATOR BY OWNER
- 010000.M (E) STEEL BEAM
- 064023.F (N) PLASTIC LAMINATE COUNTERTOP
- 096516.A RESILIENT SHEET INTEGRAL COVE BASE
- 097720 FIBERGLASS REINFORCED WALL PANELS
- 102800.A TOILET TISSUE (ROLL) DISPENSER
- 102800.F WARM-AIR DRYER
- 102800.J LIQUID-SOAP DISPENSER
- 102800.L GRAB BAR
- 102800.Q SEAT-COVER DISPENSER
- 102800.S MIRROR UNIT
- 113013.A RANGE/OVEN
- 113013.B DISHWASHER
- 230000.G (N) RANGE HOOD AND EXHAUST VENT

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign
 P.O. BOX 3103
 ROHNERT PARK, CA 94927
 WWW.BROKAWDESIGN.COM

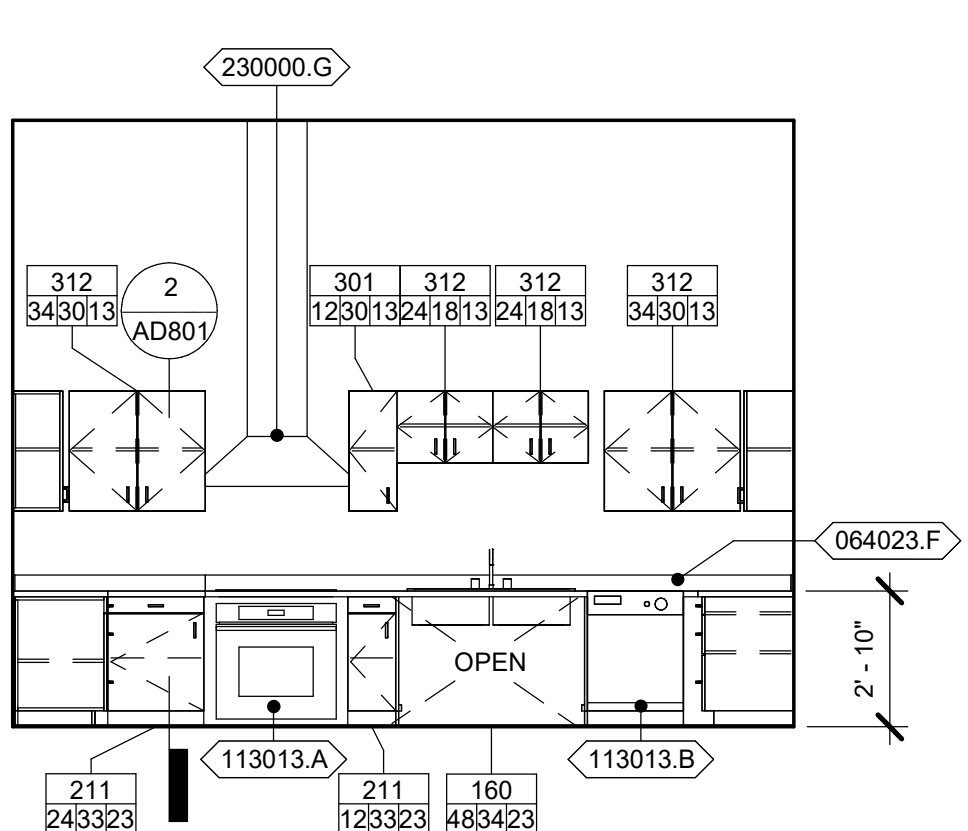
PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA
 95531

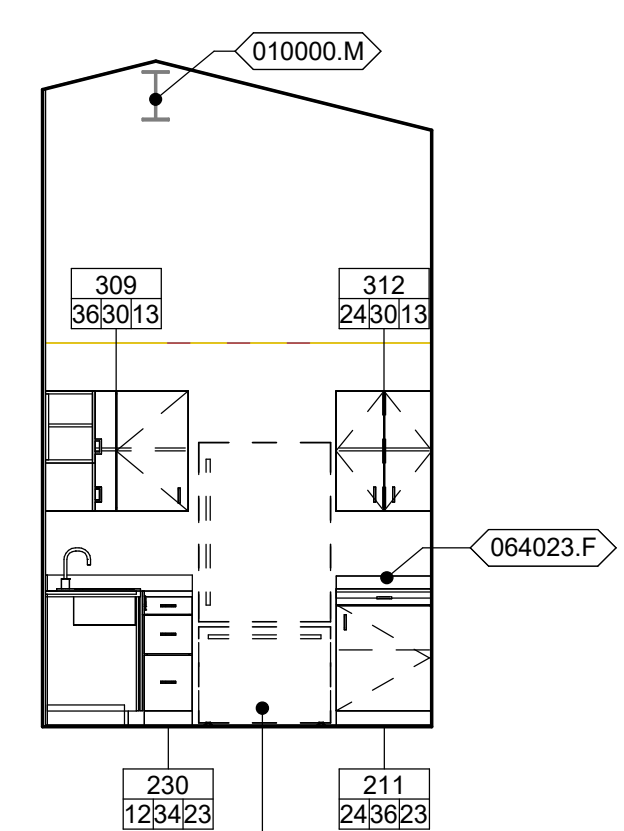
SHEET NAME:
INTERIOR ELEVATIONS

 ISSUE DATE: 3/11/22
 PREPARATION AND REVIEW
 DRAWN BY: CB
 DESIGNER: CB
 PROJ MGR:
 PEER REVIEW:
 SHEET NUMBER:

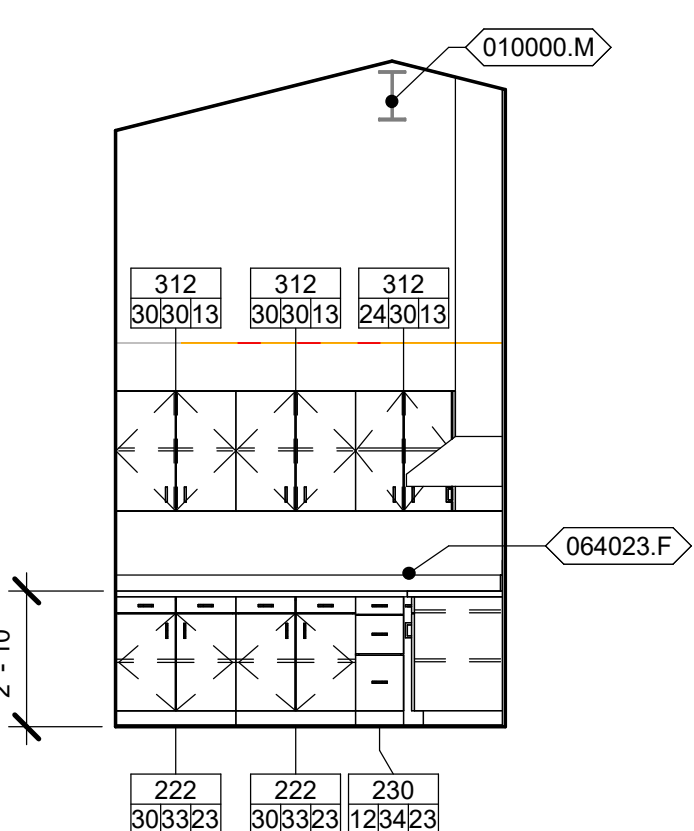
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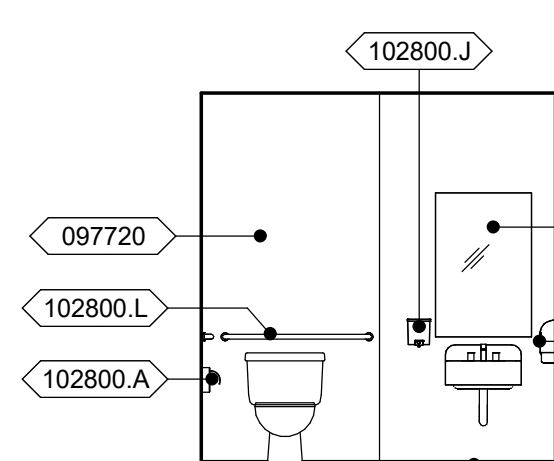
1 127 KITCHEN NORTH
 1/4" = 1'-0"



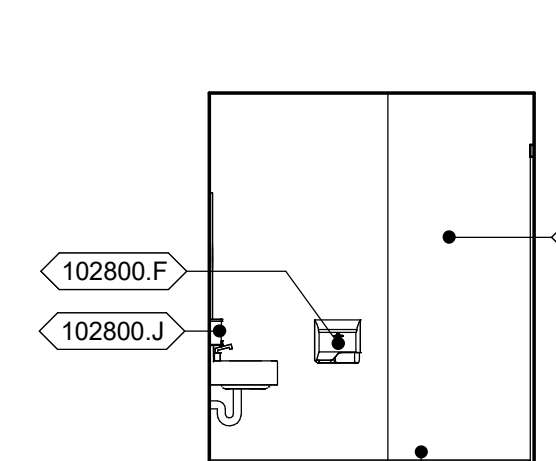
2 127 KITCHEN EAST
 1/4" = 1'-0"



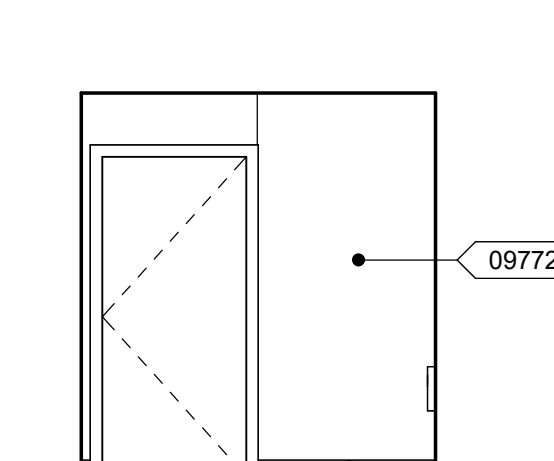
4 127 KITCHEN WEST
 1/4" = 1'-0"



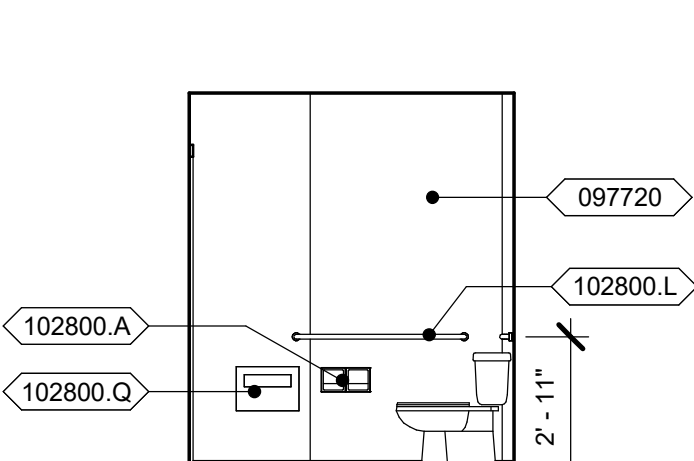
5 131 TOILET NORTH
 1/4" = 1'-0"



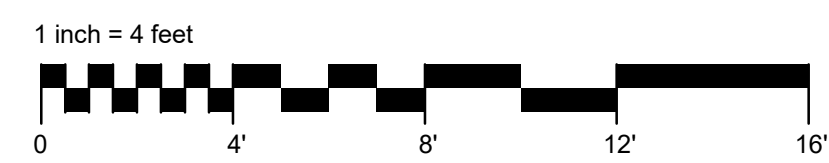
6 131 TOILET EAST
 1/4" = 1'-0"



7 131 TOILET SOUTH
 1/4" = 1'-0"



8 131 TOILET WEST
 1/4" = 1'-0"



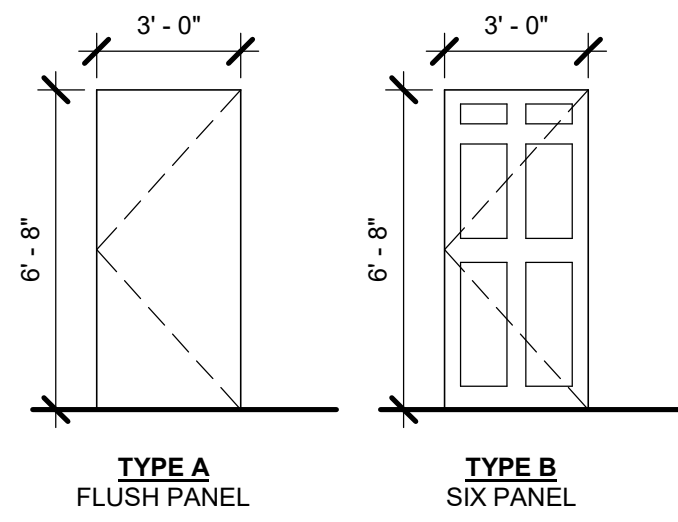
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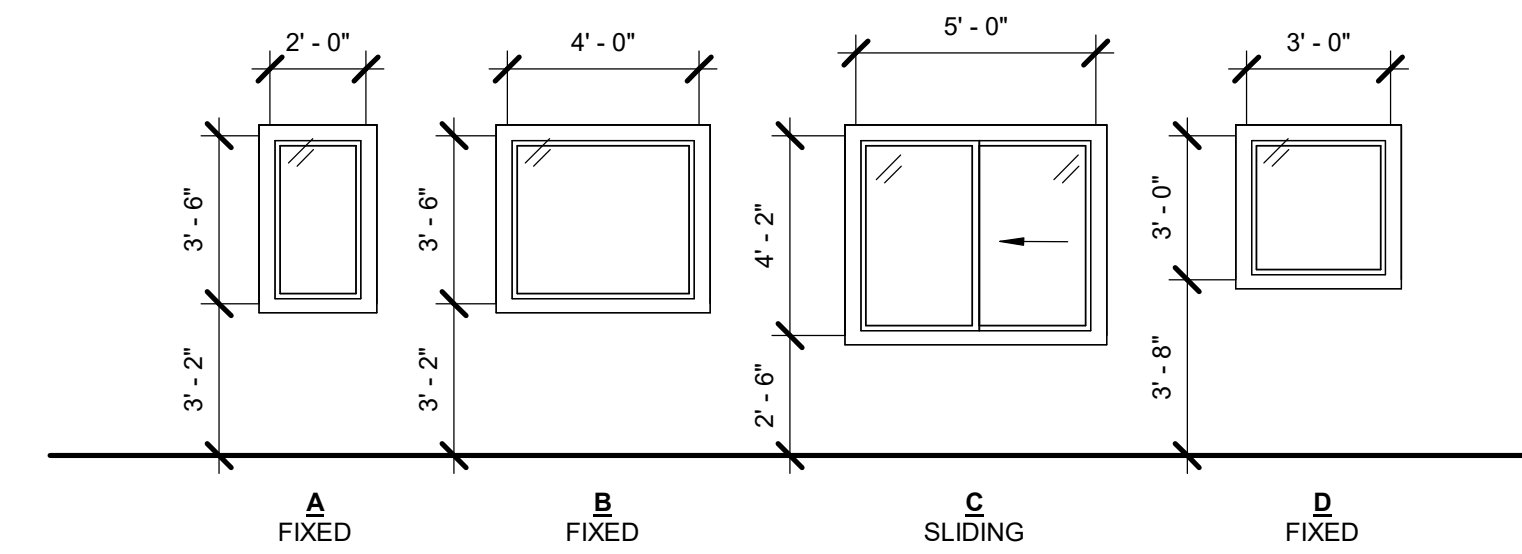


DOOR SCHEDULE - NEW													
MARK	BUILDING	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	FRAME		GLASS	FIRE RATING	HARDWARE SET	REMARKS
								MAT.	FIN.				
101	BLDG 1	B	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	PAINT	METAL	PAINT	-	-	01	
119	BLDG 1	B	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	PAINT	METAL	PAINT	-	-	02	
120	BLDG 1	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	04	
121	BLDG 1	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	05	
124	BLDG 1	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	06	
125	BLDG 2	B	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	PAINT	METAL	PAINT	-	-	03	
128	BLDG 2	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	04	
129	BLDG 2	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	08	
130	BLDG 2	B	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	PAINT	METAL	PAINT	-	-	03	
131	BLDG 2	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	09	
132	BLDG 2	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	07	
216	BLDG 1	A	3' - 0"	6' - 8"	0' - 1 3/4"	SOLID CORE WOOD	TRANSPARENT	METAL	PAINT	-	-	06	

Grand total: 12

WINDOW SCHEDULE													
MARK	TYPE	SIZE		SILL HEIGHT	SASH & FRAME		GLAZING	DETAILS			FIRE RATING	COMMENTS	
		WIDTH	HEIGHT		MATERIAL	FINISH		HEAD	JAMB	SILL			
C	SLIDING	5' - 0"	4' - 2"	2' - 6"	VINYL	PREFINISHED	INSULATING				--		
D	FIXED	3' - 0"	3' - 0"	3' - 8"	VINYL	PREFINISHED	INSULATING				--		
S	FIXED	2' - 0"	3' - 6"	3' - 2"	VINYL	PREFINISHED	INSULATING				--		
T	FIXED	4' - 0"	3' - 6"	3' - 2"	VINYL	PREFINISHED	INSULATING				--		

Grand total: 9



REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign
 P.O. BOX 3103
 ROHNERT PARK, CA 94927
 WWW.BROKAWDESIGN.COM

PROJECT:
THE LEGACY RENOVATION
 665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:
SCHEDULES - DOOR & WINDOW

ISSUE DATE: 3/11/22
 PREPARATION AND REVIEW
 DRAWN BY: CB
 DESIGNER: CB
 PROJ MGR:
 PEER REVIEW:
 SHEET NUMBER:

A621

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C

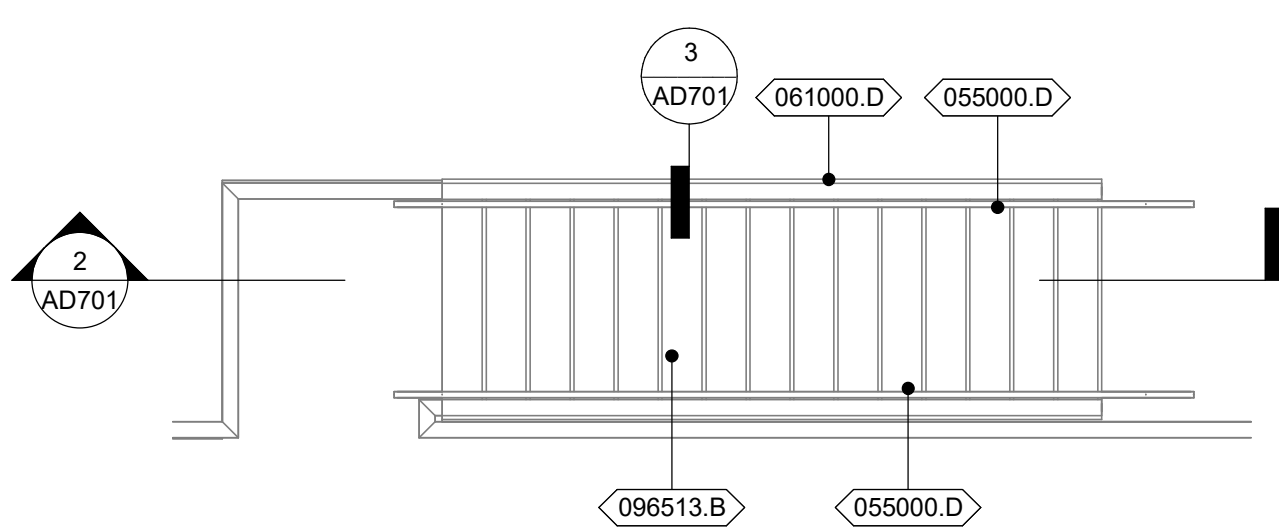
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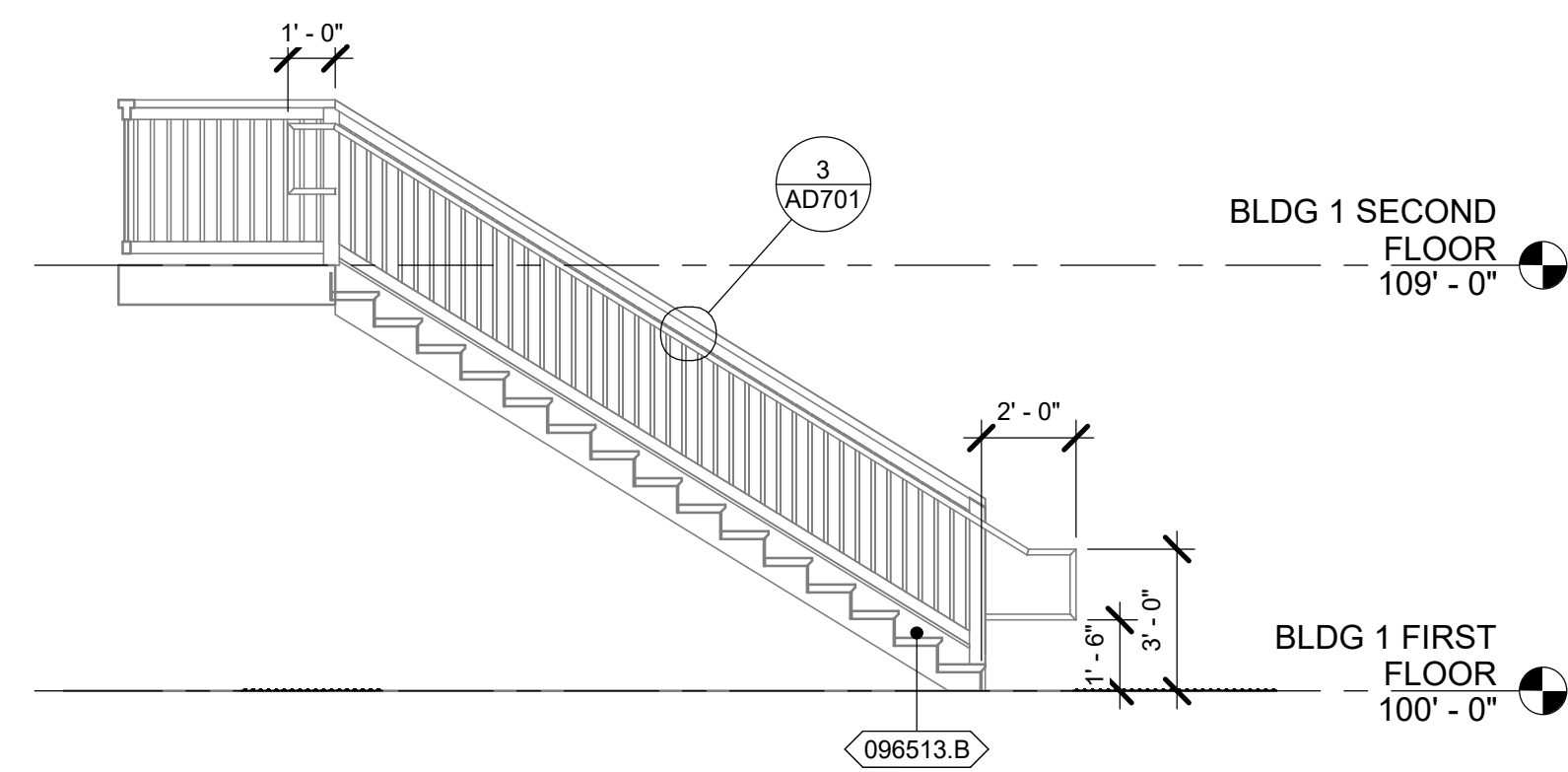
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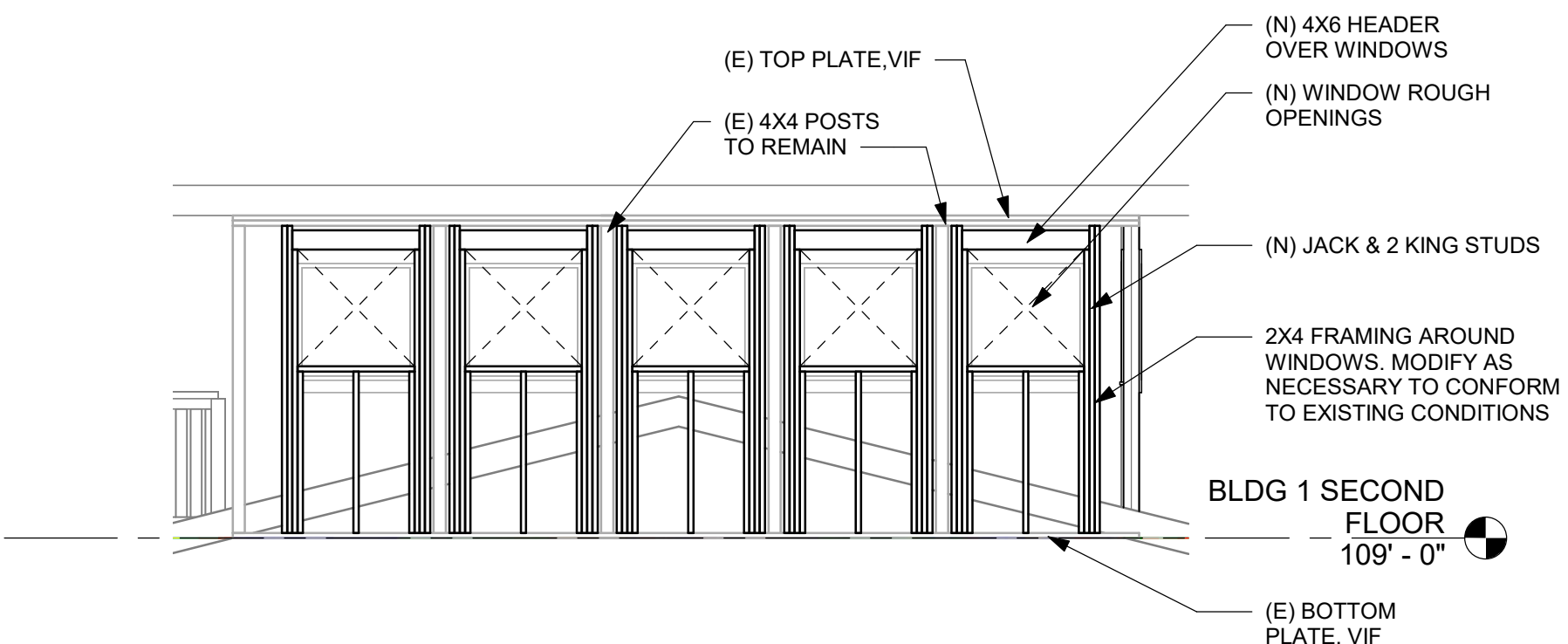
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1 STAIR FLOOR PLAN
1/4" = 1'-0"

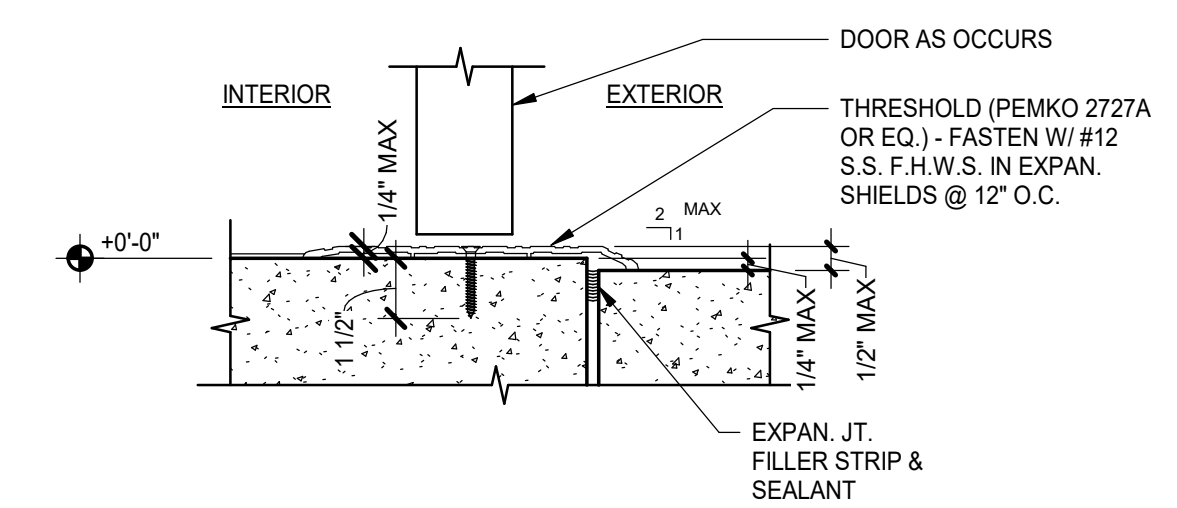


2 SECTION THRU STAIR
1/4" = 1'-0"

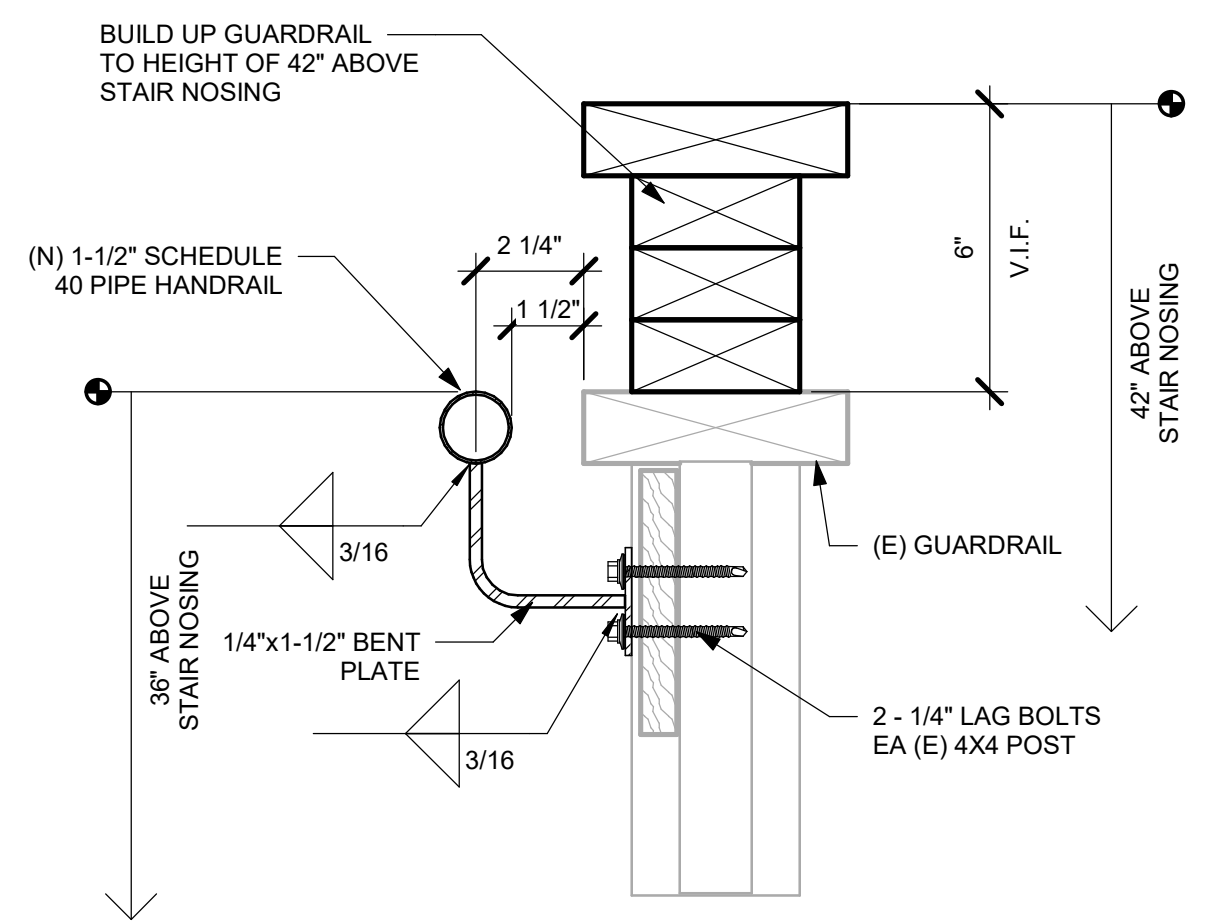


4 WALL FRAMING ELEVATION @ WINDOWS
1/4" = 1'-0"

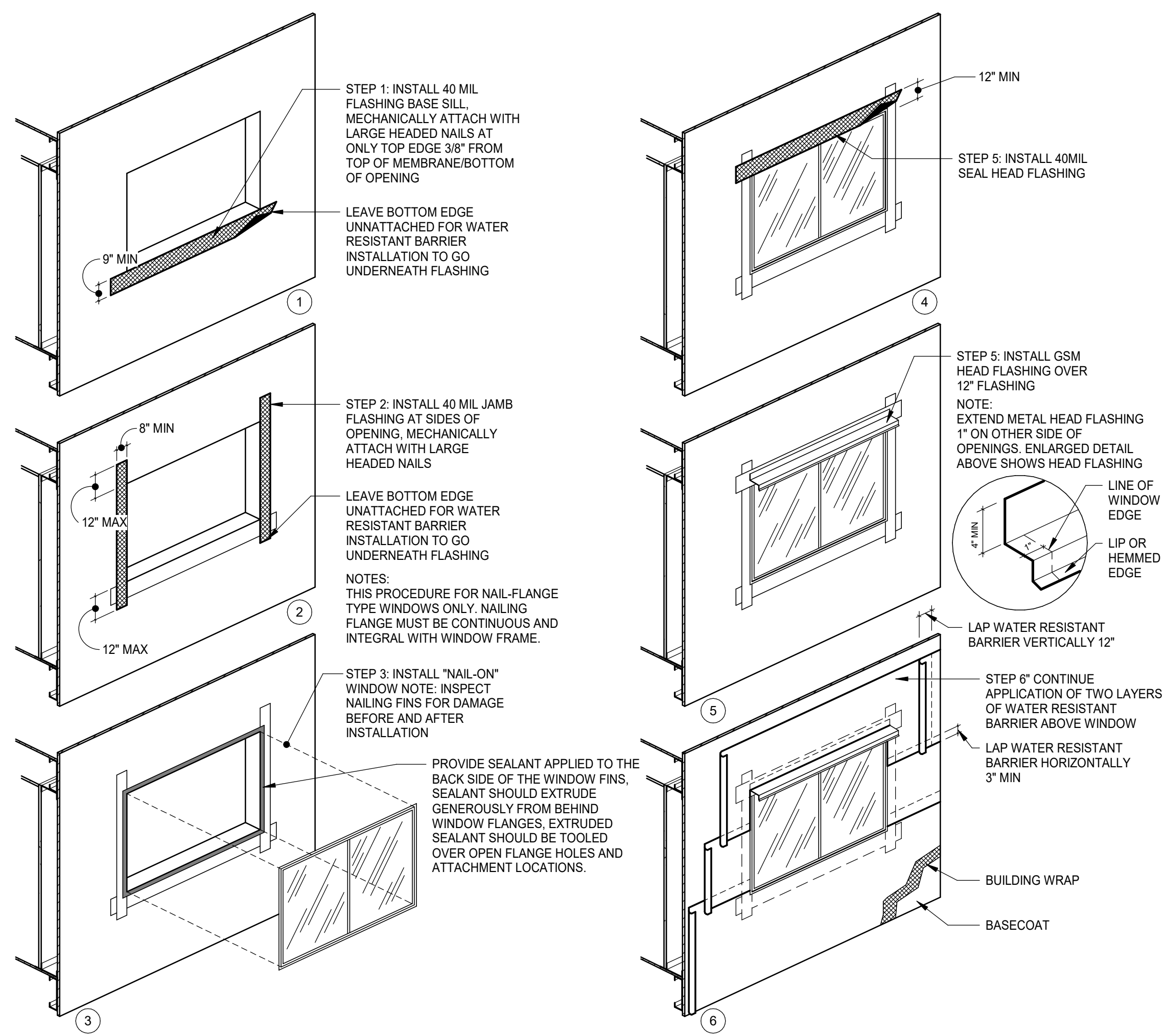
GENERAL FLOOR TRANSITION NOTE:
PER CBC SECTION 11B-303, ABRUPT CHANGES IN LEVEL BETWEEN ANY ADJACENT FLOOR SURFACES SHALL NOT EXCEED 1/2". WHEN SUCH A CHANGE OF LEVEL OCCURS, THE TRANSITION SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE LIMIT VERTICAL TO 2 UNITS HORIZONTAL (50%), EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL CHANGES IN LEVEL IN EXCESS OF 1/2" SHALL CONFORM TO THE REQUIREMENTS FOR RAMPS. THESE REQUIREMENTS APPLY TO EACH FLOOR FINISH TRANSITION CONDITION SHOWN IN THIS DETAIL BOX.



6 THRESHOLDS
3" = 1'-0"



3 STAIR GUARDRAIL & HANDRAIL
3" = 1'-0"



5 WINDOW FLASHING DETAILS
1/2" = 1'-0"

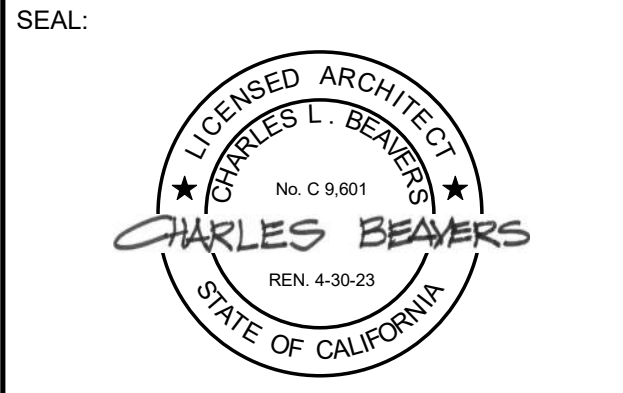
GENERAL NOTES

- A. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS INDICATED ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO RESPECTIVE DISCIPLINE DRAWINGS FOR CONSTRUCTION DRAWING INFORMATION.
- B. REFER TO ENLARGED FLOOR PLANS OF TOILETS FOR COMPLETE CONSTRUCTION DOCUMENTATION INFORMATION.
- C. REFER TO DOOR SCHEDULE FOR DOOR TYPES AND DIMENSIONS.
- D. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR FINISHES AND LOCATIONS.
- E. SIGNAGE LOCATION DESIGNATION ▲, SEE SHEET AD802 FOR REQUIREMENTS.

KEYNOTES

- 055000.D (N) GALVANIZED STEEL HANDRAIL
- 061000.D ADD WOOD TO TOP OF GUARDRAIL TO RAISE HEIGHT
- 096513.B (N) VINYL STAIR TREADS WITH CONTRASTING TOE

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

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P.O. BOX 3103
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PROJECT:
THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:
EXTERIOR DETAILS

ISSUE DATE:	3/11/22
PREPARATION AND REVIEW	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	
PEER REVIEW:	
SHEET NUMBER:	

AD701

1

2

3

4

5

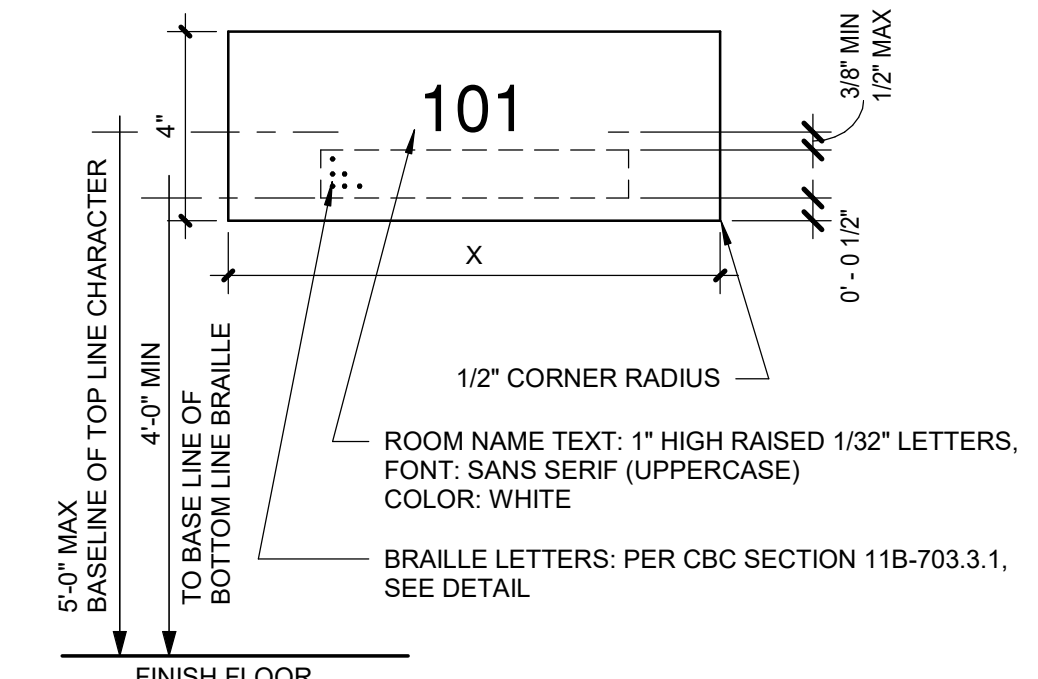
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B

C

D

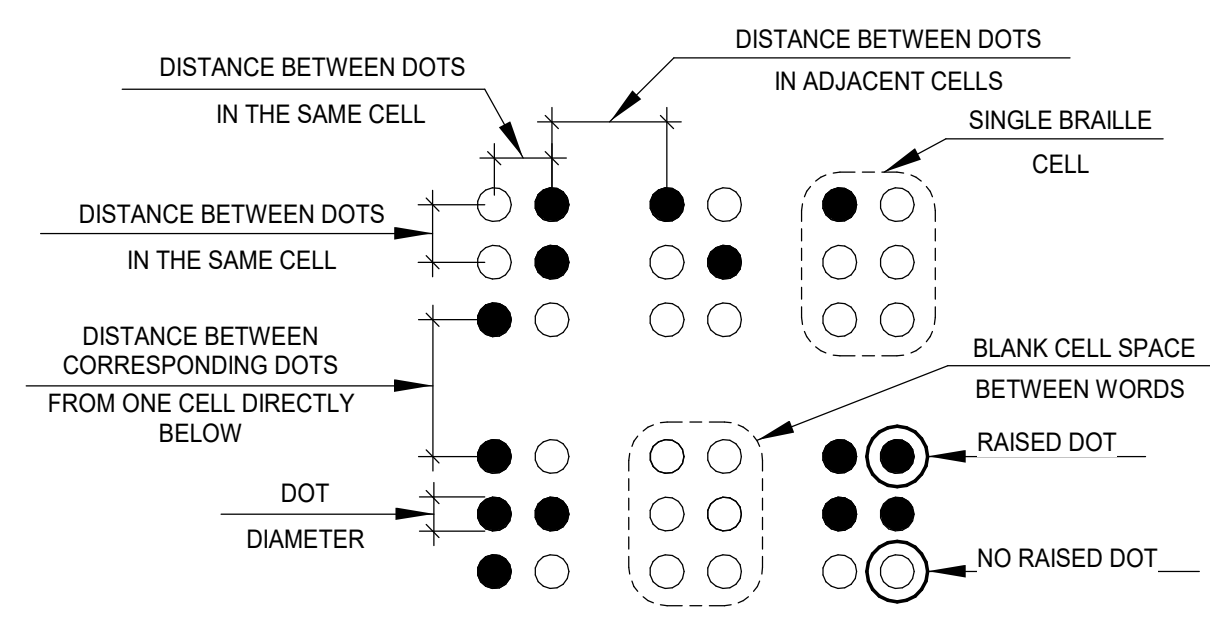
E



- NOTE:
1. ATTACH SIGNS USING ADHESIVE ON THE LATCH SIDE OF DOOR TO ROOM.
 2. SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC W/ 1/32" RAISED BORDER, GRAPHICS & LETTERS, PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS.
 3. 70% MIN CONTRAST BETWEEN LETTERS AND BACKGROUND, ALL NON-GLARE.

1 ACCESSIBLE ROOM ID SIGN
3" = 1'-0"

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 MM) TO 0.063 (1.6 MM)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL ¹	0.100 (2.5 MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS ¹	0.300 (7.6 MM)
DOT HEIGHT	0.025 (0.6 MM) TO 0.037 (0.9 MM)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW ¹	0.395 (10 MM) TO 0.400 (10.2 MM)
1. MEASURED CENTER TO CENTER	



2 BRAILLE GUIDELINES
12" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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CRESCENT CITY, CA
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SHEET NAME:
SIGNAGE

ISSUE DATE: 3/11/22
PREPARATION AND REVIEW
DRAWN BY: CB
DESIGNER: CB
PROJ MGR:
PEER REVIEW:
SHEET NUMBER:

AD802

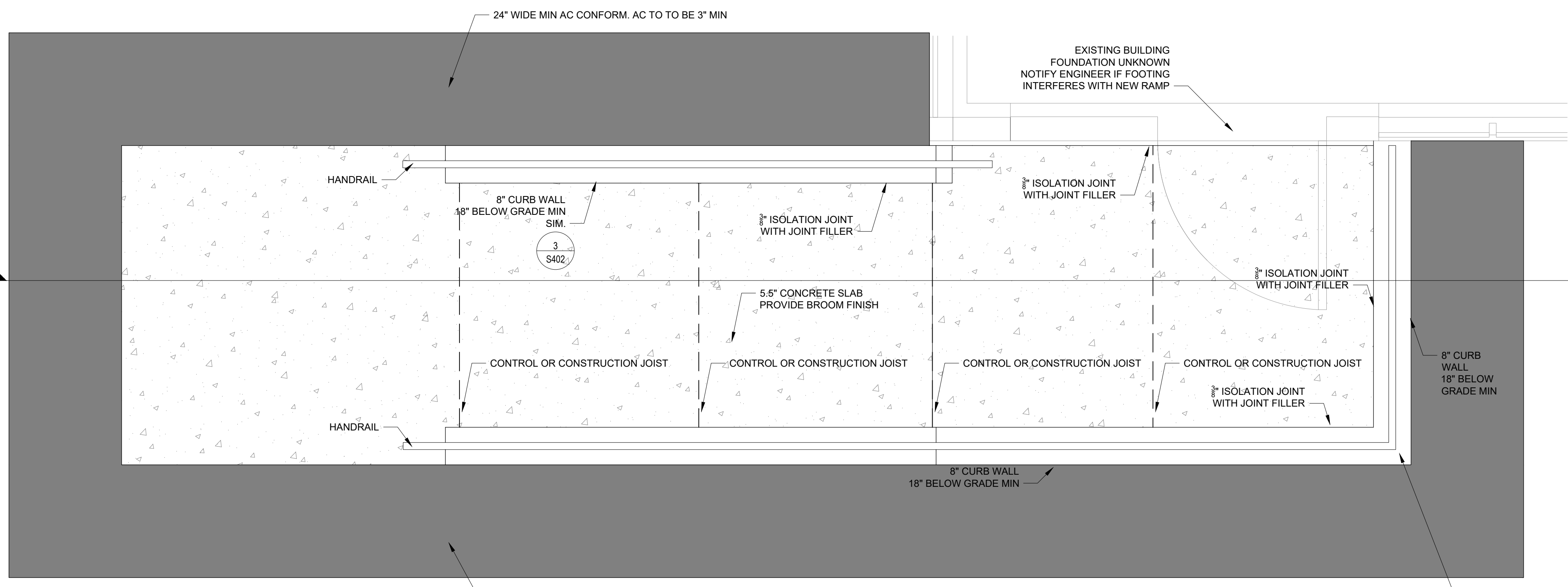
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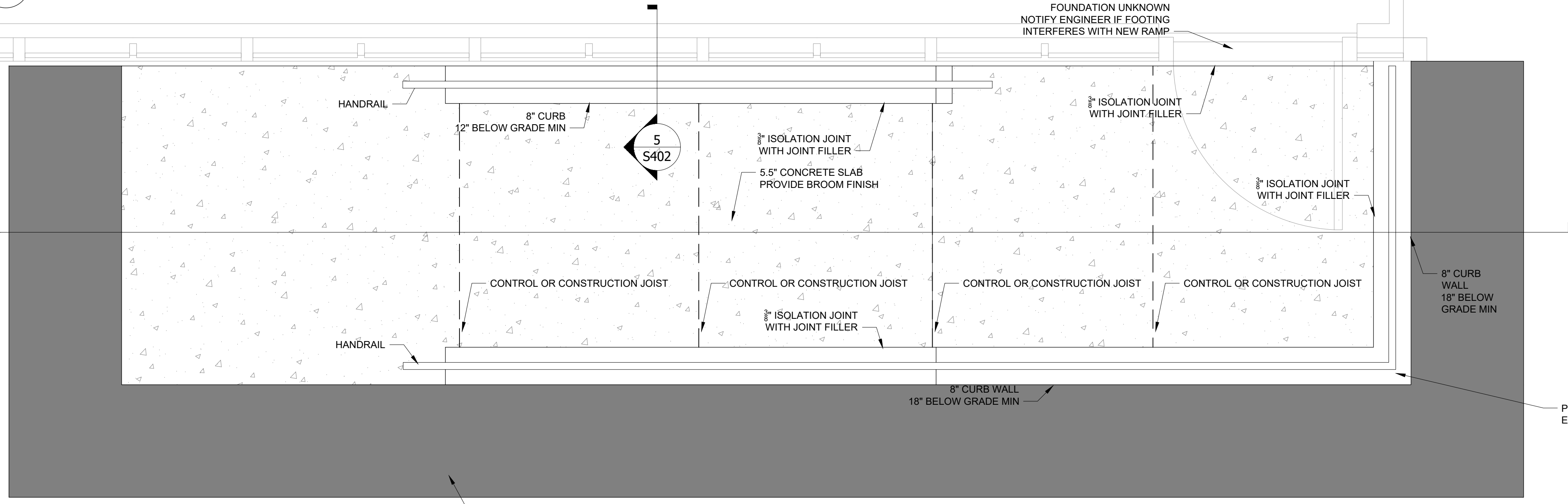
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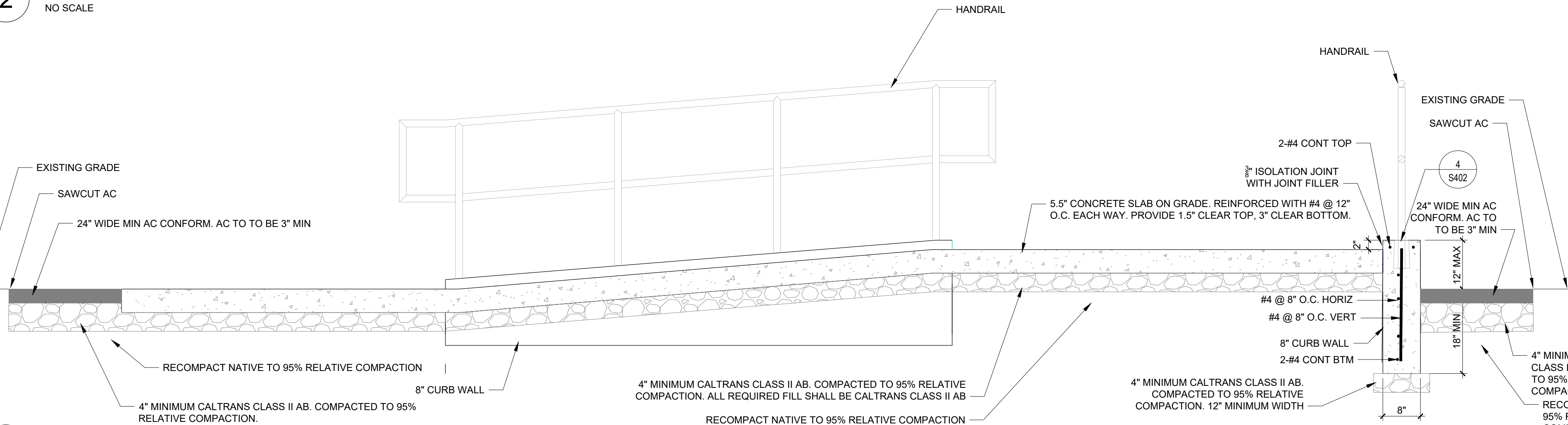
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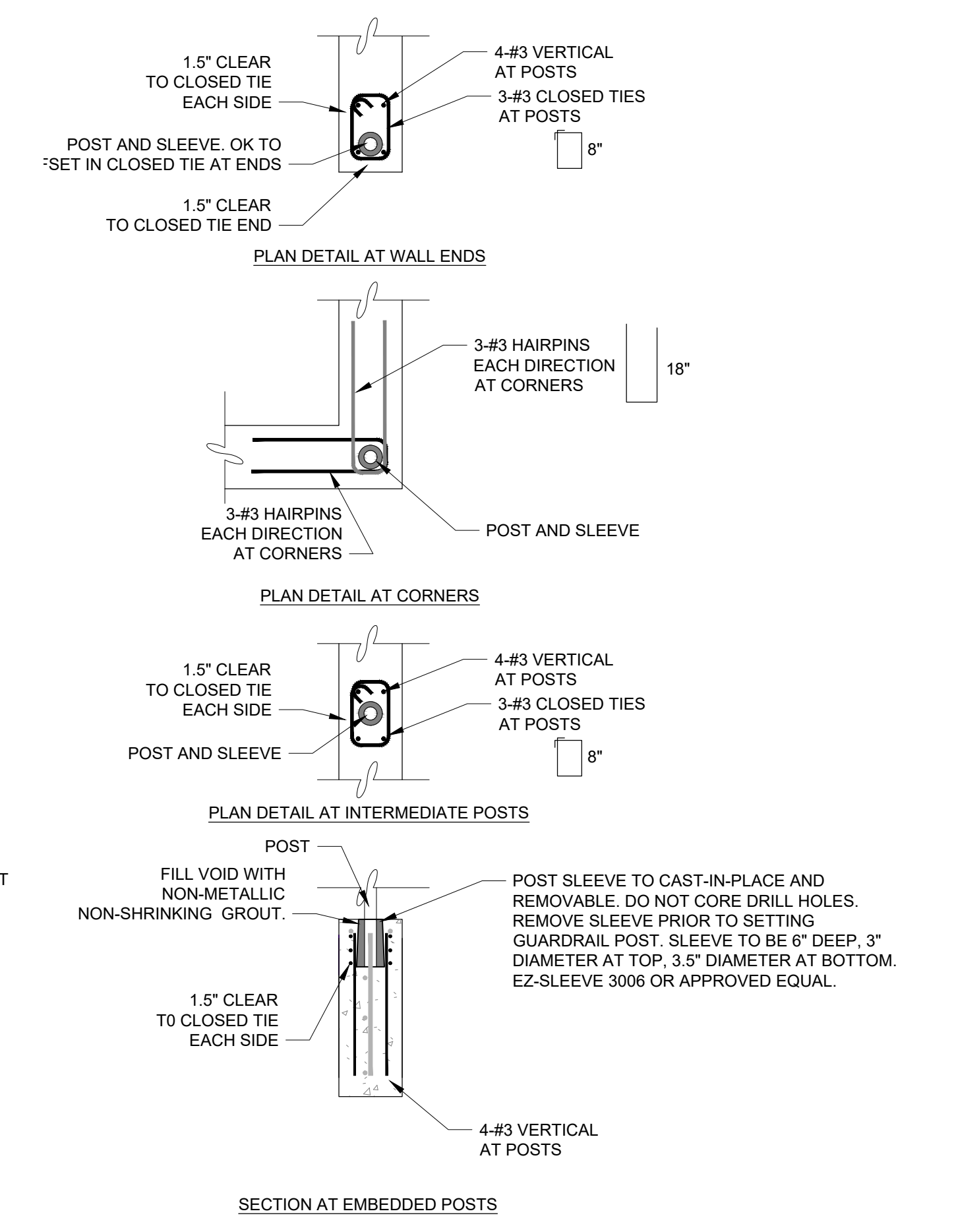
1 PARTIAL PLAN AT RAMP 1
NO SCALE



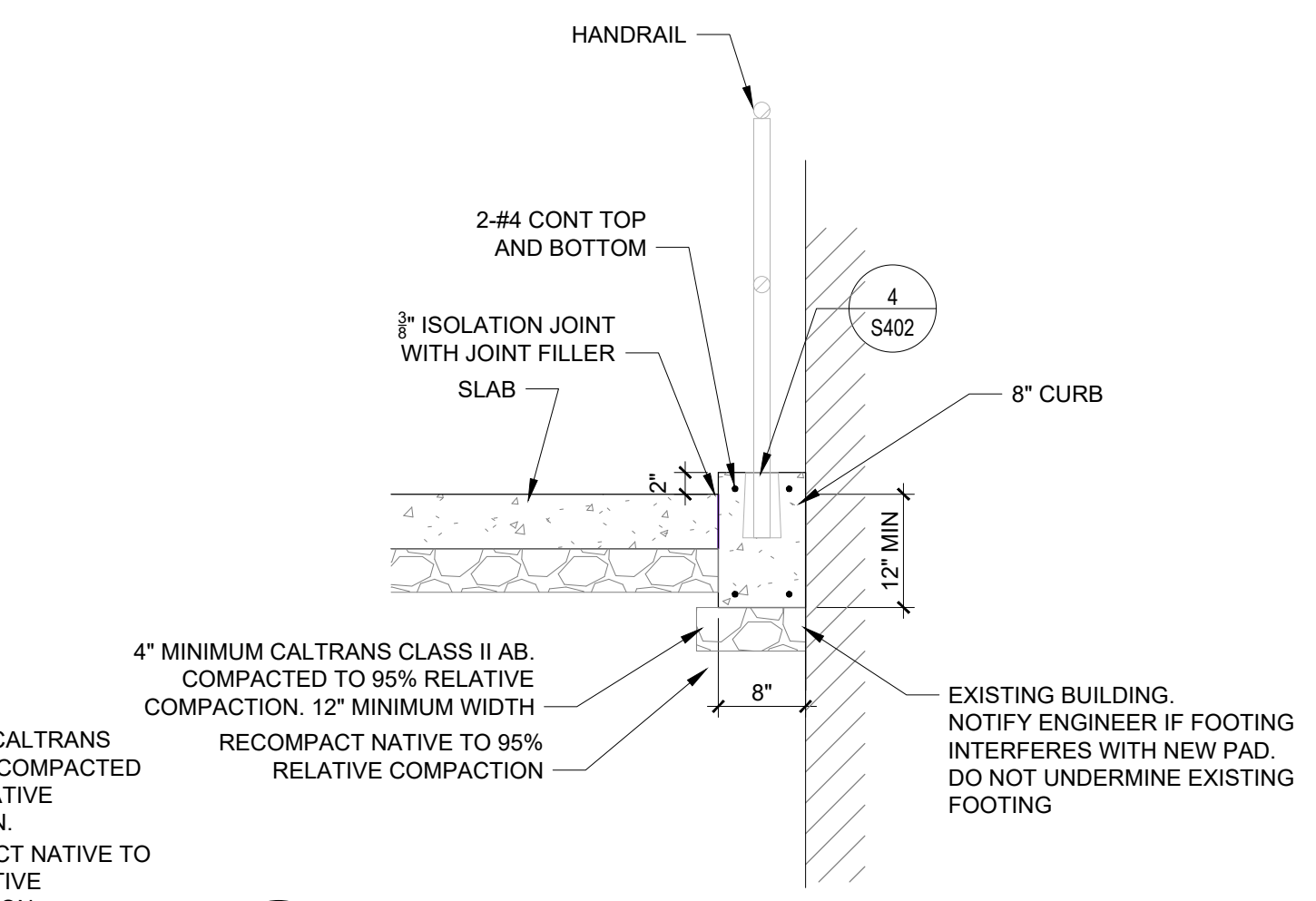
2 PARTIAL PLAN AT RAMP 2
NO SCALE



3 SECTION AT RAMP 1 & 2
NO SCALE



4 TYPICAL EMBEDDED HANDRAIL DETAIL
NO SCALE



5 SECTION CURB AGAINST EXISTING BLDG
NO SCALE

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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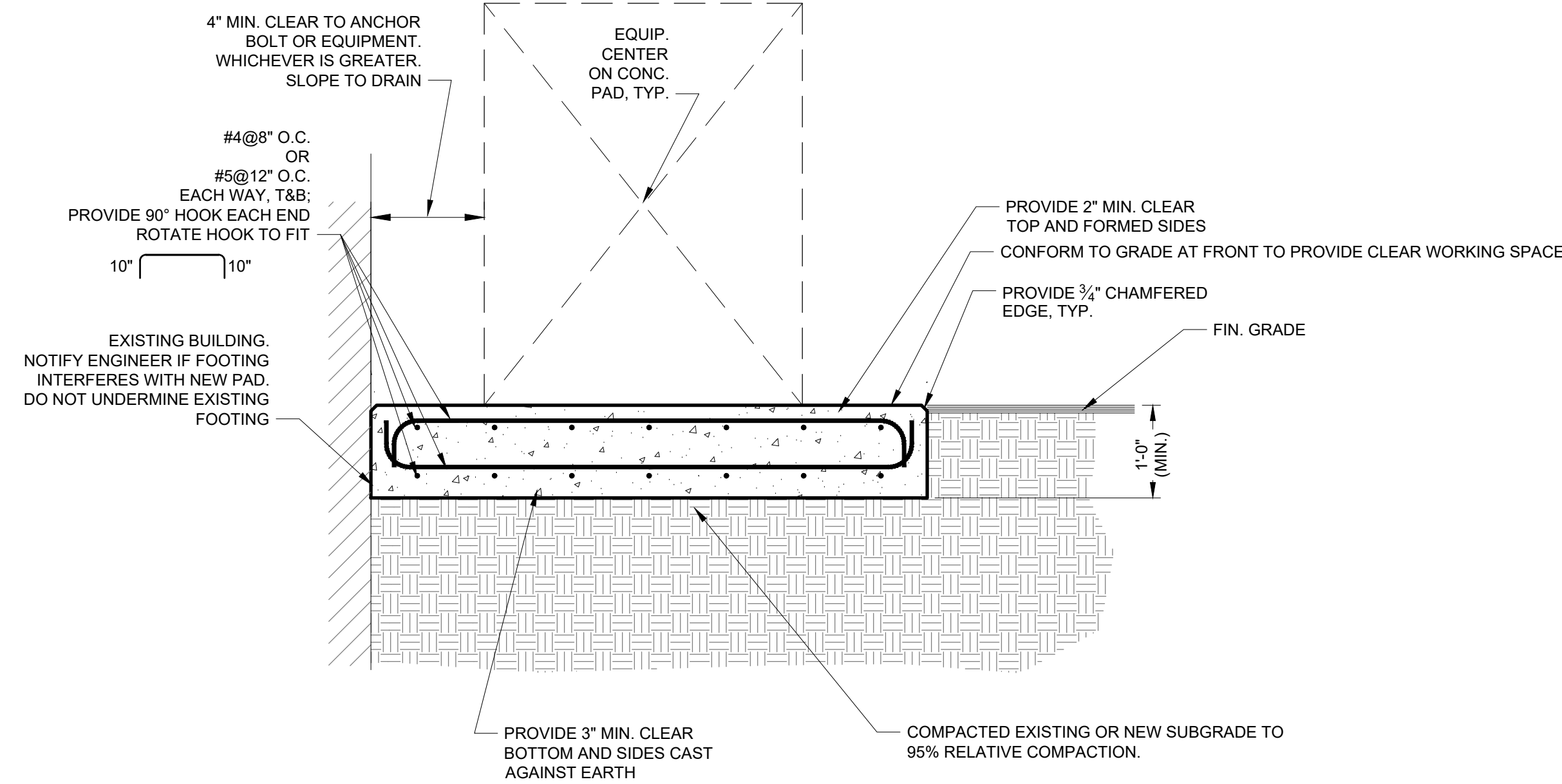
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95531

SHEET NAME:

RAMP DETAILS

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

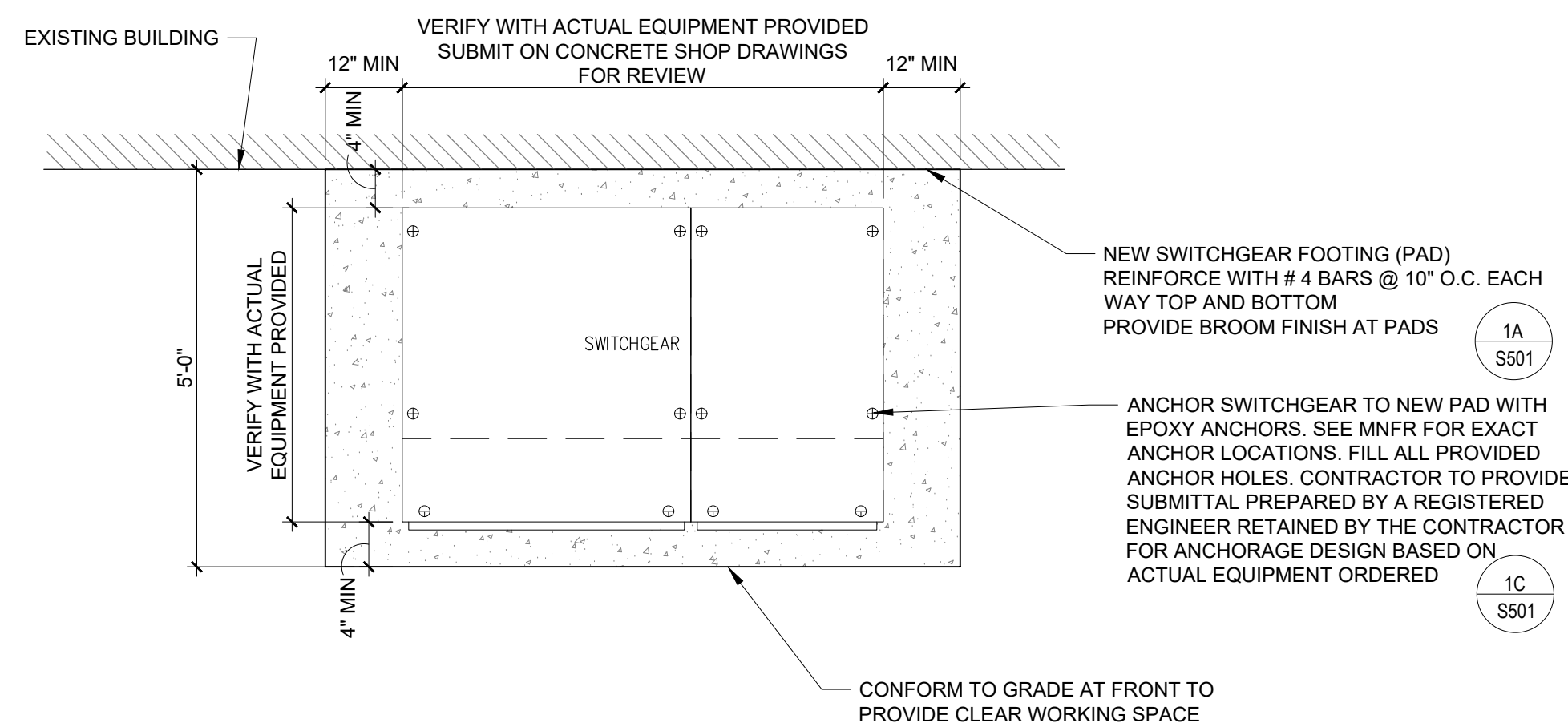
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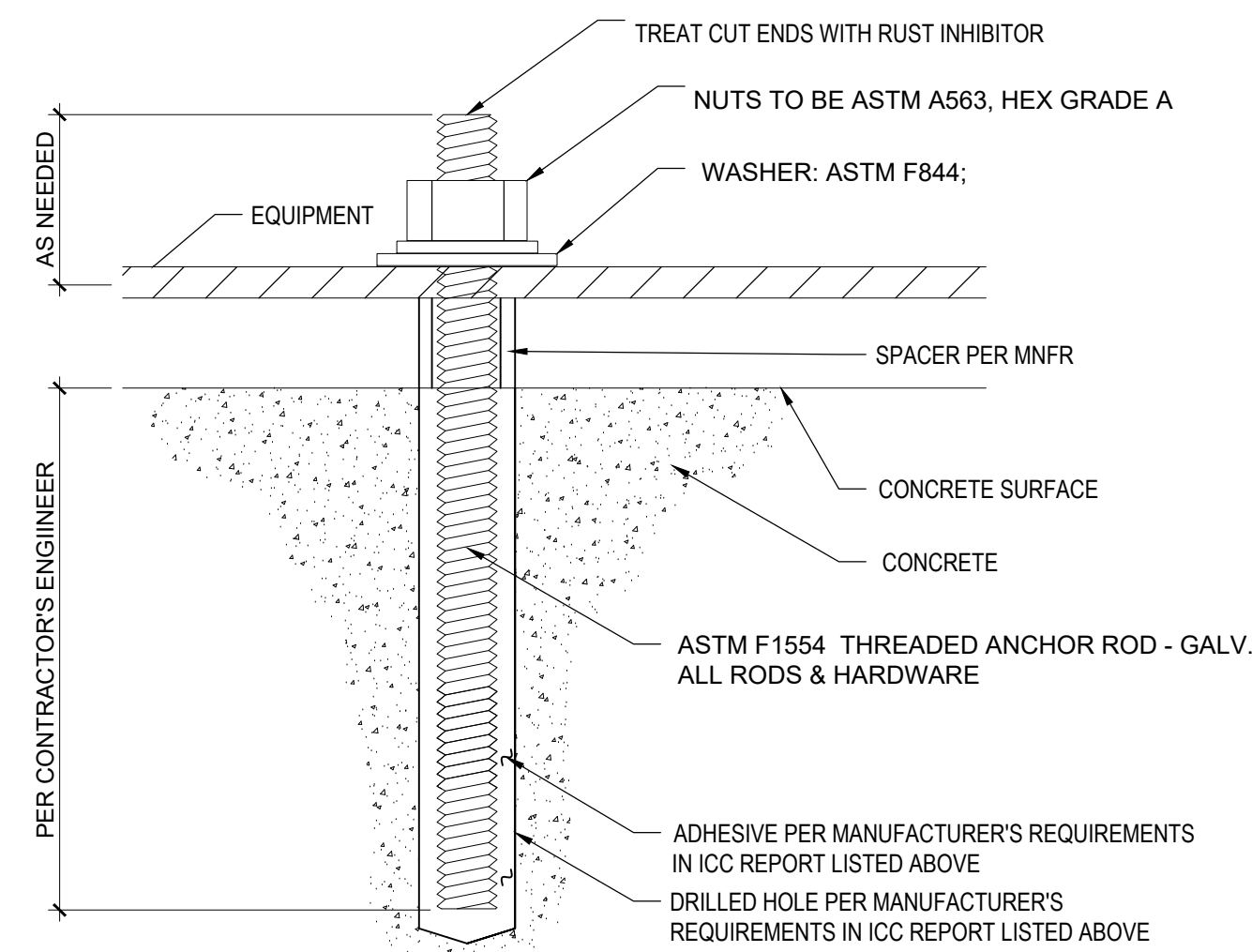
1A SWITCHBOARD PAD SECTION
NOT TO SCALE

DETAIL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE AND THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
2. PROVIDE CONTINUOUS SPECIAL INSPECTION OF THE INSTALLATION OF ADHESIVE ANCHORS
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
4. ADHESIVE ANCHORS SHALL HGAVE ICC-ESR REPORT
5. WHEN INSTALLING ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.



1B SWITCHBOARD PAD PLAN
NOT TO SCALE



SIZE MIN. EMBED MAX TIGHTENING TORQUE
? ? ? -- ALL INFO BY CONTRACTOR'S ENGINEER

1C SWITCHBOARD ANCHOR DETAIL
NOT TO SCALE

1 SWITCHBOARD PAD DETAILS
NOT TO SCALE

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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PROJECT:
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665 L STREET
CRESCENT CITY, CA.
95531

SHEET NAME:
SWITCHGEAR PAD DETAIL

ISSUE DATE: 1/7/22
PREPARATION AND REVIEW
DRAWN BY: MOB
DESIGNER: MOB
PROJ MGR:
PEER REVIEW: CAC
SHEET NUMBER:

S403

1. PROVIDE STUDS, TRACKS AND BRACING PER THE SCHEDULE BELOW:
 INTERIOR METAL STUD FRAMING SCHEDULE
 (REF. STEEL STUD MANUFACTURER'S ASSOCIATION (REPORT ICC 4943P) AND AISI S201)

NOMINAL SIZE	CATALOG SIZE	MINIMUM PROPERTIES			SPACING (INCHES)	MAX HT (FEET)
		kx (in ⁴)	Sx (in ³)	Ma (in ⁴)		
WALL STUDS						
3 5/8" x 18 GA	362S137-43	0.616	0.340	6.32	16	10'-0"
6" x 1.375" 18 GA	600S137-43	2.042	0.681	112.74	16	15'-0"
WALL TRACKS						
3 5/8" x 18 GA	362T125-43	0.571	0.302	4.84	TYP TRACK AT 3 5/8" STUDS	
3 5/8" x 16 GA	362T150-54	0.823	0.431	6.89	TOP TRACK	
3 5/8" x 18 GA	362T200-43	0.808	0.427	10.3400	CAPPING TRACK	
6" x 18 GA	600T125-43	1.861	0.604	9.11	TYP TRACK AT 6" STUDS	
6" x 16 GA	600T150-54	2.611	0.843	13.62	TOP TRACK	
6" x 18 GA	600T200-43	2.494	0.809	11.16	CAPPING TRACK	

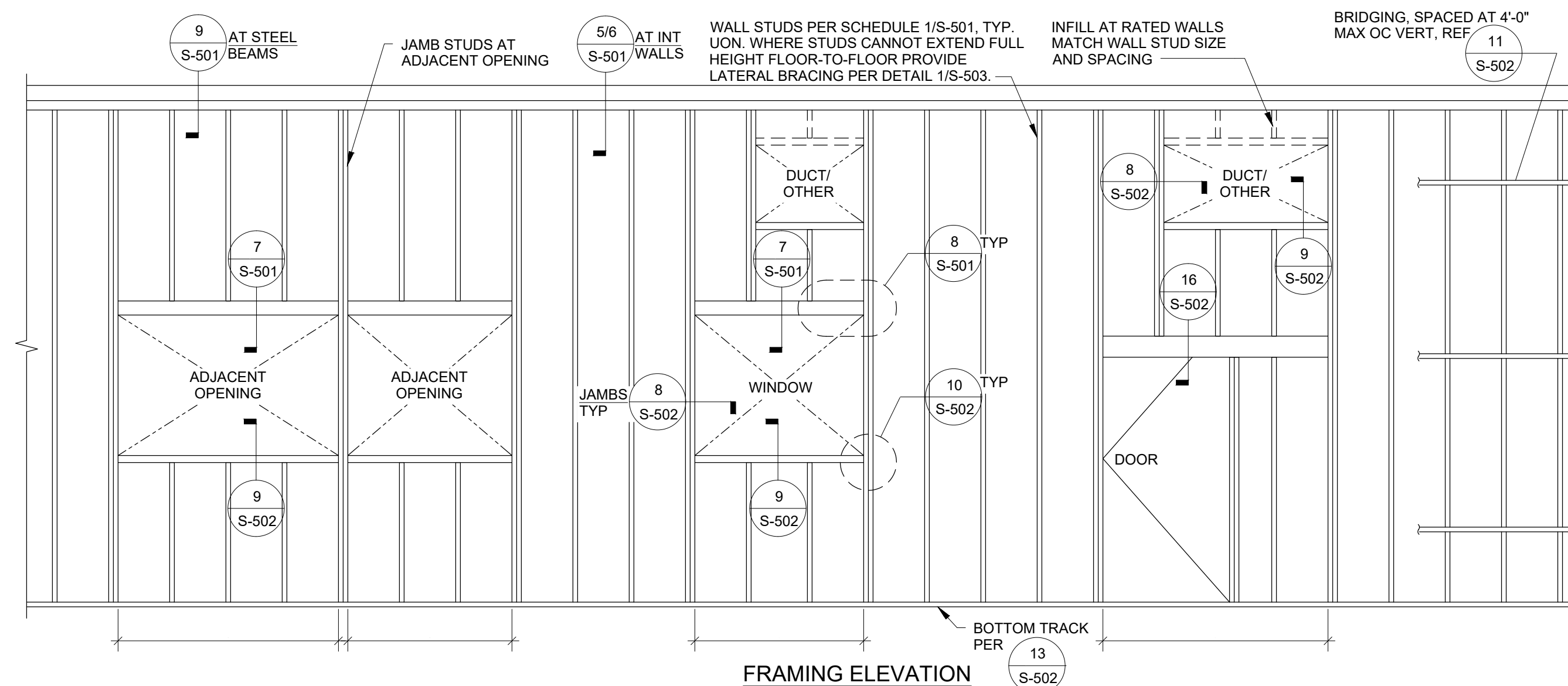
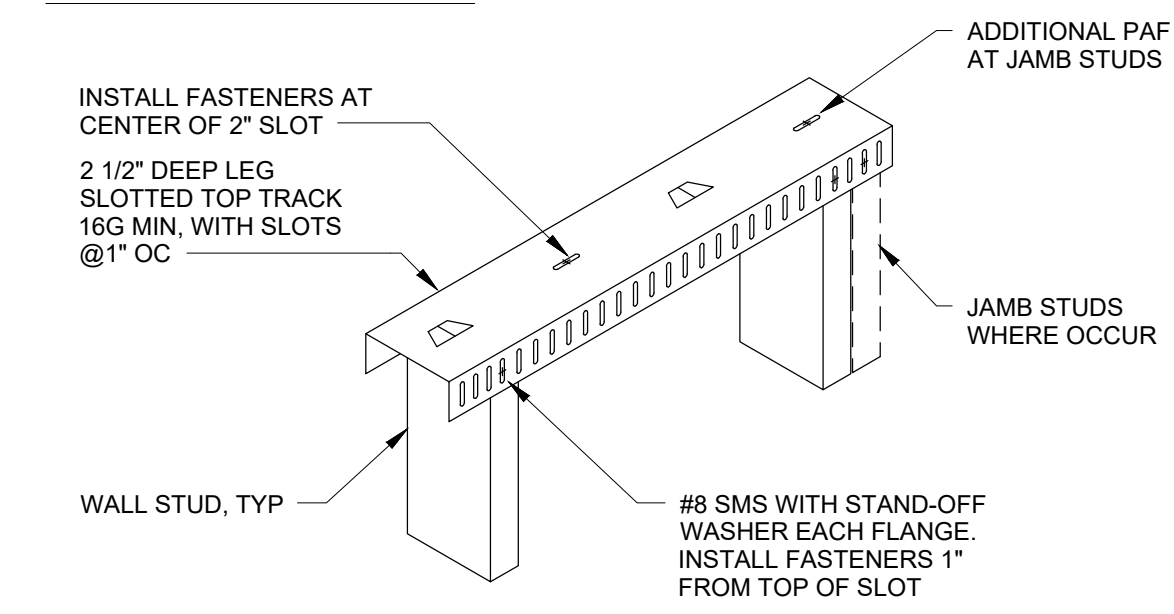
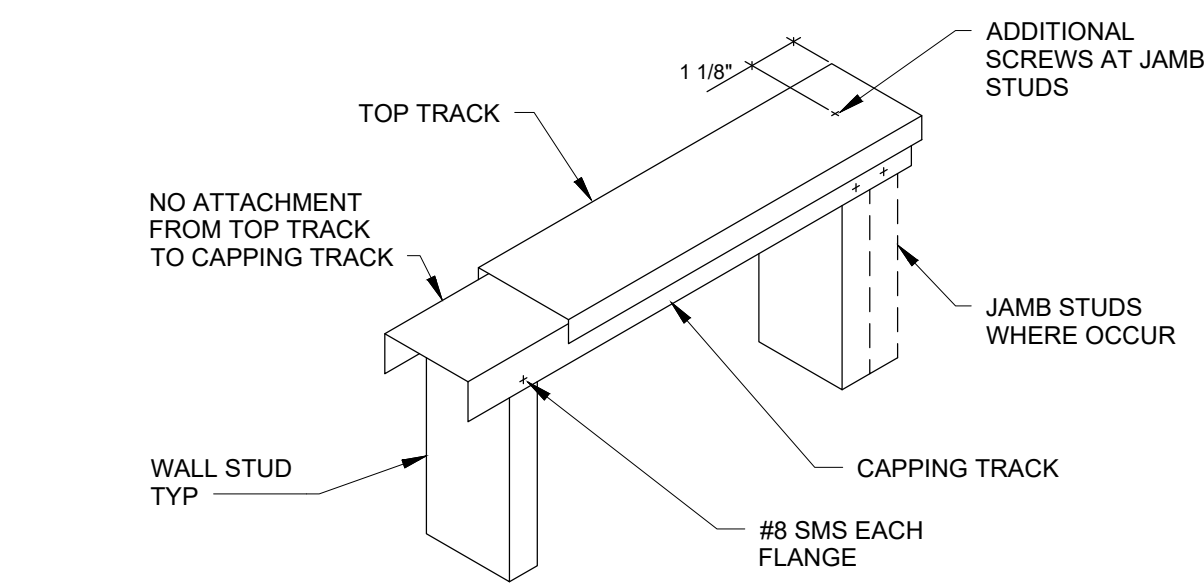
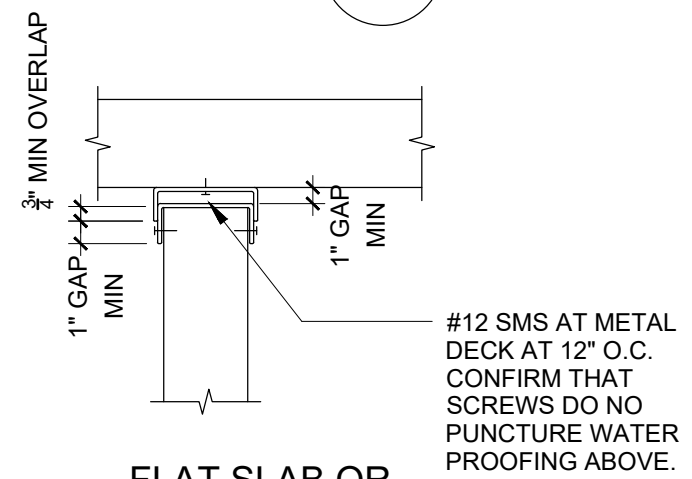
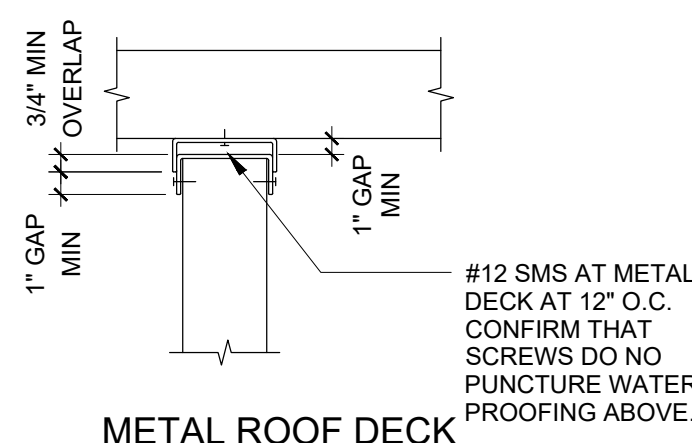
SILLS					
3 5/8" x 14 GA	362S162-68	1.0690	0.5900	17.6500	SILL STUDS PER SILL DETAIL 9 / S-502
6" x 14 GA	600S162-68	3.5250	1.1750	26.7800	
HEADERS					
4" x 16 GA	400S162-54	1.0980	0.5490	14.9000	HEADER STUDS PER HEADER DETAIL 7 / S-501
6" x 16 GA	600S162-54	2.8600	0.9530	25.9000	
8" x 16 GA	800S162-54	5.7360	1.4340	32.8100	

8. POWER ACTUATED FASTENERS (PAF) SHALL BE HILTS DS (0.177" DIA. X 1 1/2" EMBEDMENT) PER ICC-ESR REPORT NO. 1663. PROVIDE 0.08" THICK X 1.1" SQ OR 1.425" ROUND WASHERS FOR ALL POWER ACTUATED FASTENERS.
 9. PROVIDE SELF DRILLING SHEET METAL SCREWS (SMS) PER DETAIL 15 ON S-502.
 10. SEE DETAILS 11 AND 12 ON S-502 FOR TYPICAL BRIDGING DETAILS USING EITHER COLD ROLLED CHANNELS (CRC) OR FLAT STRAPS WITH BLOCKING. BRIDGING MAY BE OMITTED WHERE THE FOLLOWING SHEATHING AND FASTENERS ARE PROVIDED OF BOTH FACES OF STUD WALLS:

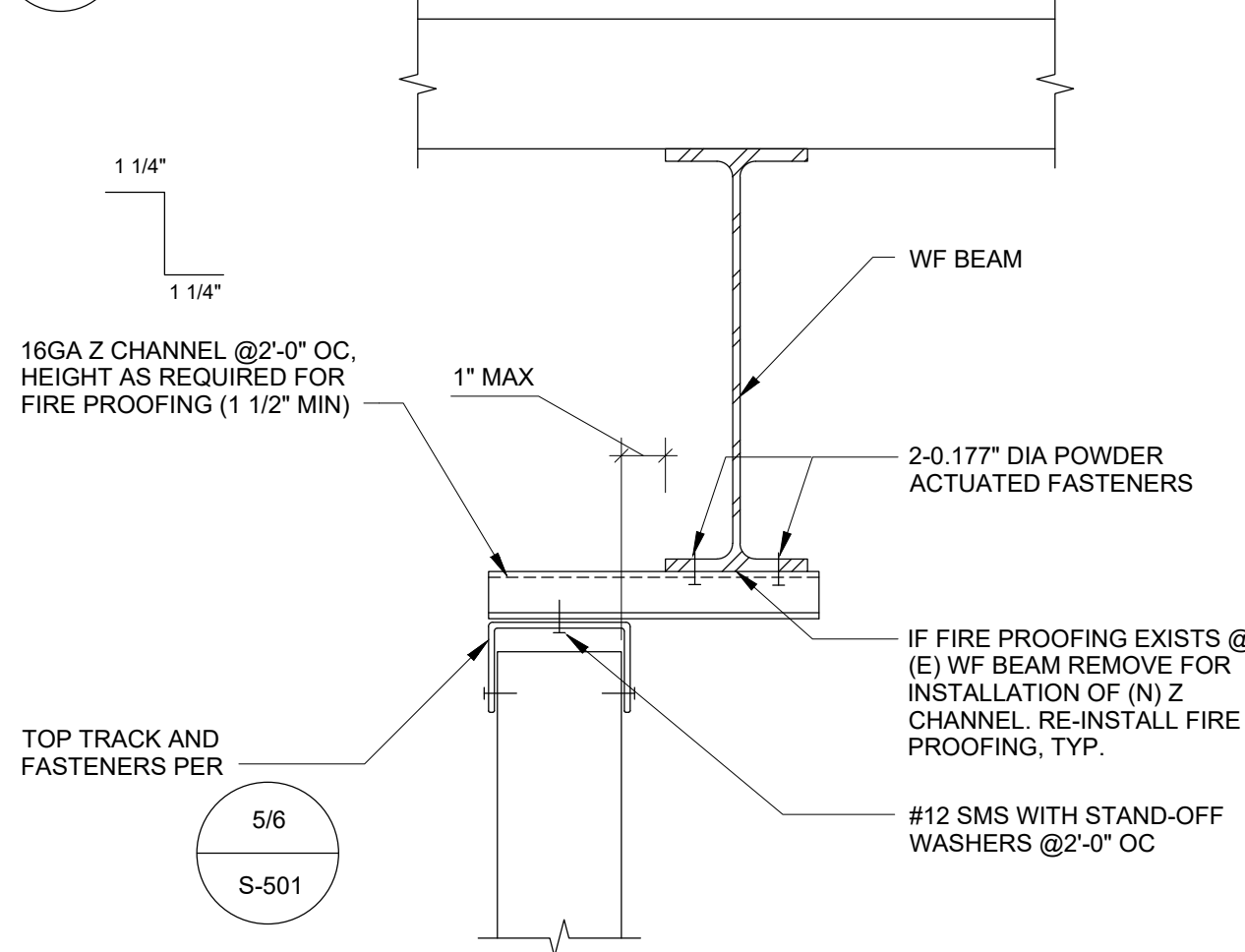
WALL SHEATHING	FASTENER
APPROVED LATH FOR PLASTER	#6 x 2 1/4" LONG x 0.437" DIA. FLAT HEAD SELF DRILLING SCREW AT EACH RIB, PER ASTM C954 AND ASTM C281.
SINGLE PLY GYPSUM WALLBOARD AND/OR GYPSUM LATH	#6 x 1 1/4" LONG x 0.3145" DIA FLAT HEAD SELF DRILLING SCREW AT 8" O.C. PER ASTM C954 AND ASTM C1280
TWO PLY GYPSUM WALL BOARD	#6 x 1 3/4" LONG x 0.3145" DIA FLAT HEAD SELF DRILLING SCREW AT 8" O.C. PER ASTM C954 AND ASTM C1280
PLYWOOD	#6 PHILLIPS BUGLE HEAD x 1 1/4" SCREWS SPACED PER TABLE ASTM C1280 AT 8" O.C.

2. SEE ARCH SHEETS FOR WALL TYPES, FINISHES, RATINGS.
 3. WALL LOCATIONS.
 ALL STUDS AND TRACKS SHALL CONFORM TO ASTM A653 OR A1003.
 a. 18 GAGE AND LIGHTER: MINIMUM YIELD OF 33 KSI
 b. 16 GAGE AND HEAVIER: MINIMUM YIELD OF 50 KSI
 c. ALL STUDS AND TRACKS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). ALL STUDS AND TRACKS SHALL COMPLY WITH AISI S201-07.
 4. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ADJUTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
 5. WHEN PROVIDED, FACTORY PUNCHOUTS SHALL BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF STUDS AND HAVE A MINIMUM CENTER TO CENTER SPACING OF 24". PUNCHOUTS FOR MEMBERS LESS THAN 2.5" DEEP SHALL BE A MAXIMUM OF 3/4" WIDE X 4" LONG.
 6. SPLICES IN STUDS AND BRACES SHALL NOT BE PERMITTED.
 7. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURER, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES.

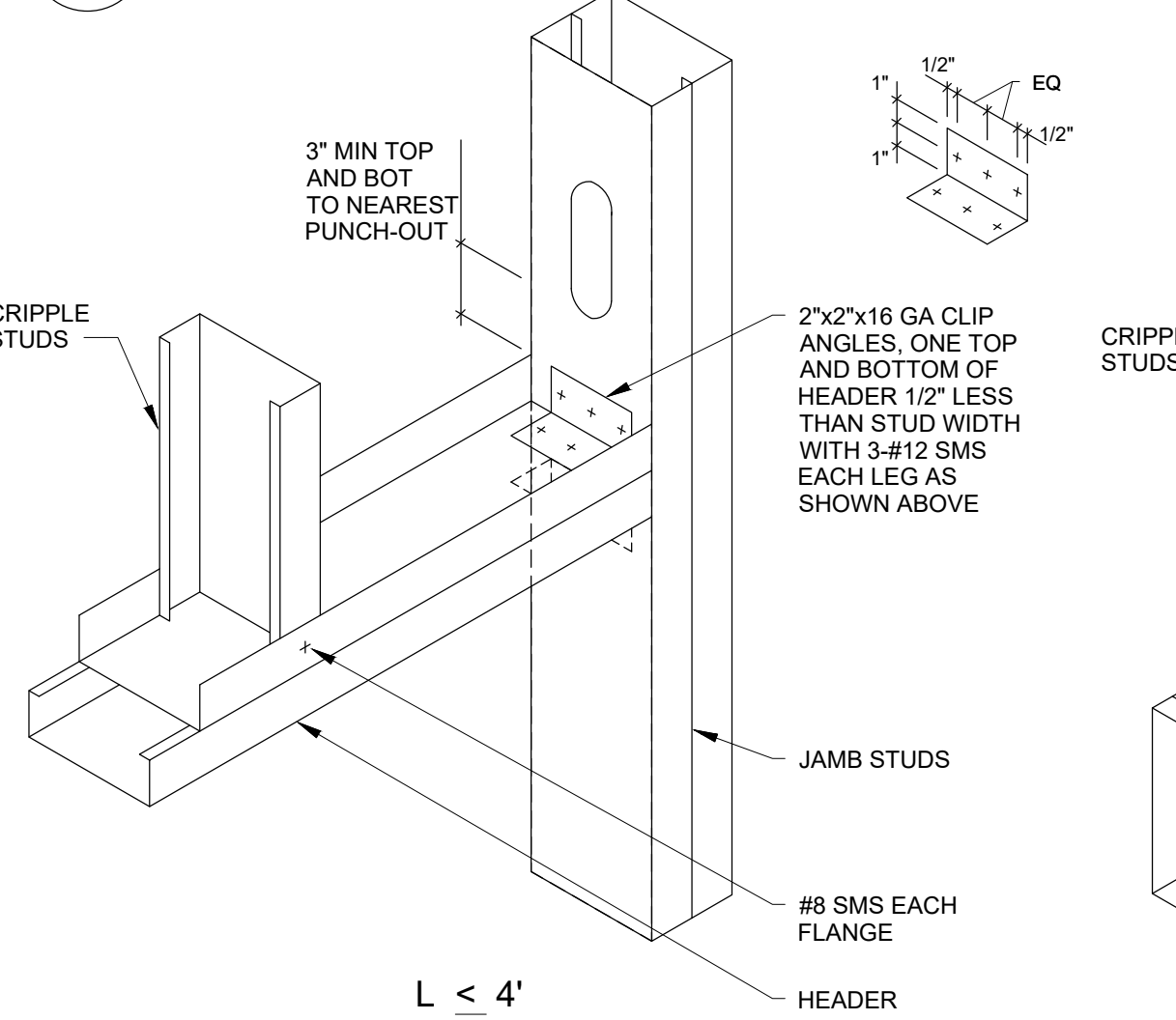
1 TYPICAL INTERIOR STUD WALL FRAMING SCHEDULE AND NOTES
 1" = 1'-0"



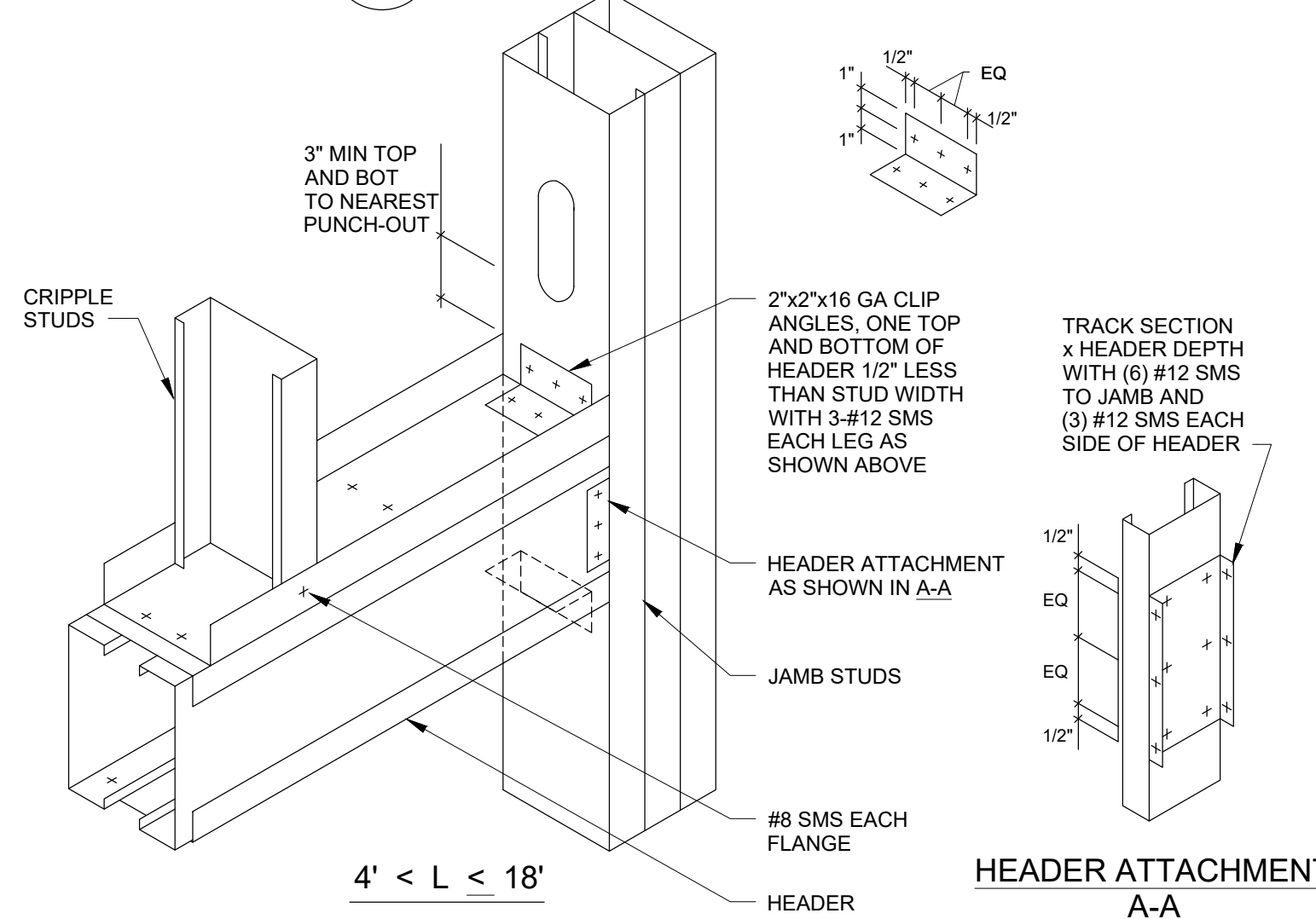
6 TYPICAL ALTERNATE TOP TRACK
 1" = 1'-0"



5 TYPICAL INTERIOR TOP TRACK
 1" = 1'-0"

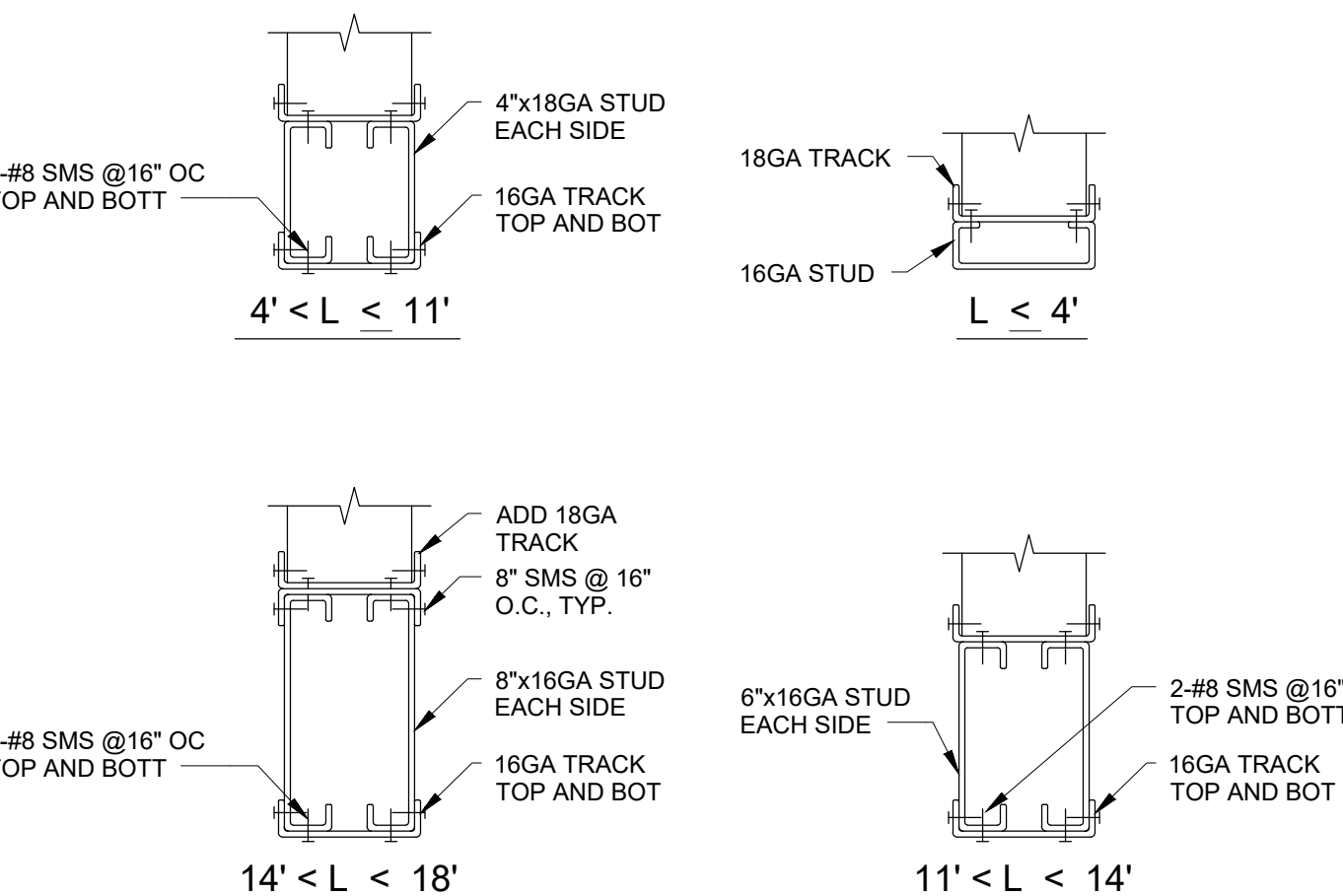


4 TYPICAL INTERIOR METAL STUD FRAMING ELEVATION
 1/4" = 1'-0"



9 TYPICAL TOP TRACK AT PARALLEL WF BEAM
 1 1/2" = 1'-0"

8 TYPICAL HEADER AND JAMB CONNECTION
 1 1/2" = 1'-0"



7 TYPICAL HEADERS
 1 1/2" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

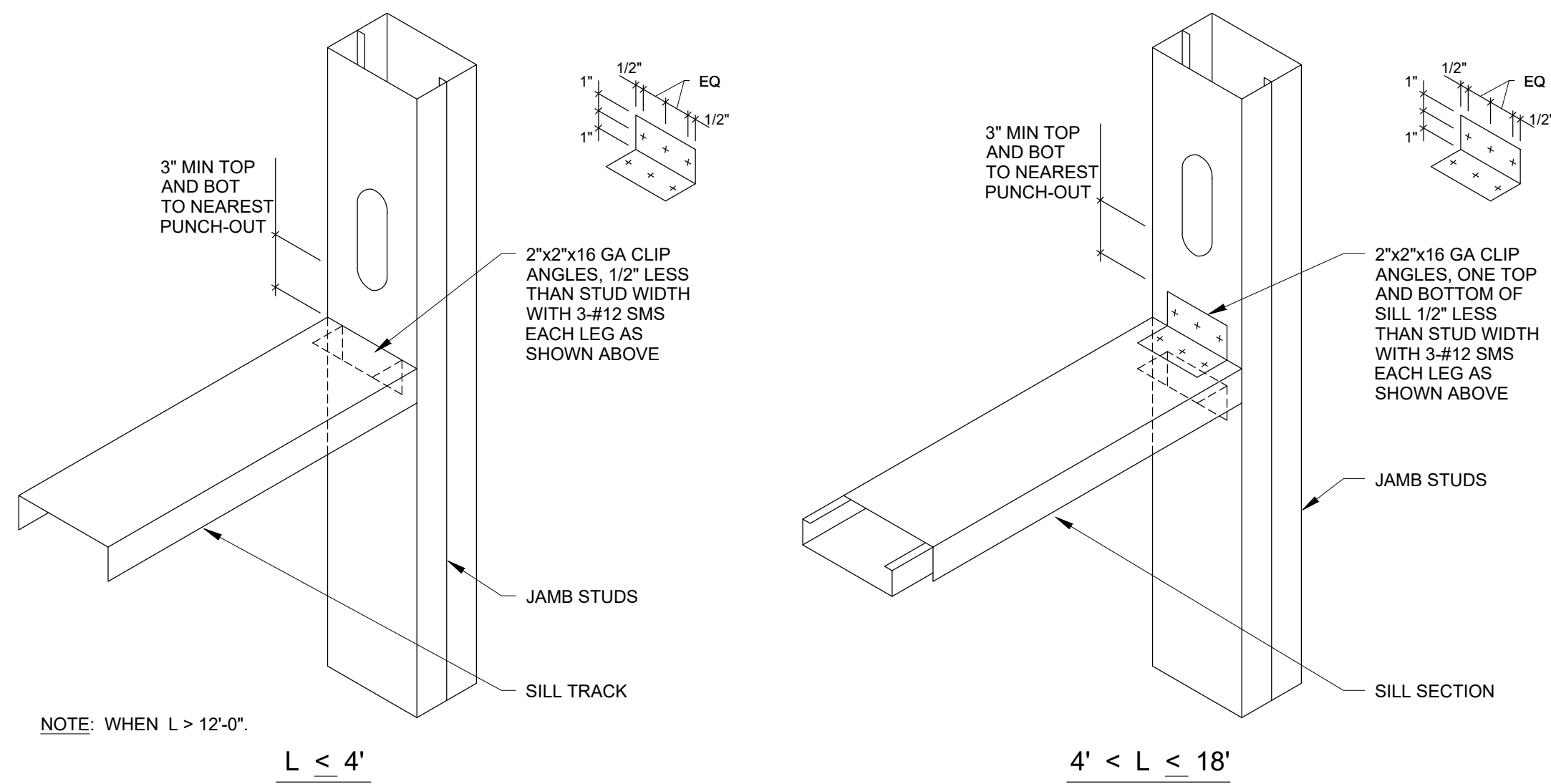
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PROJECT:
THE LEGACY RENOVATION
 665 L STREET
 CRESCENT CITY, CA.
 95531

SHEET NAME:
METAL STUD DETAILS

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

S501



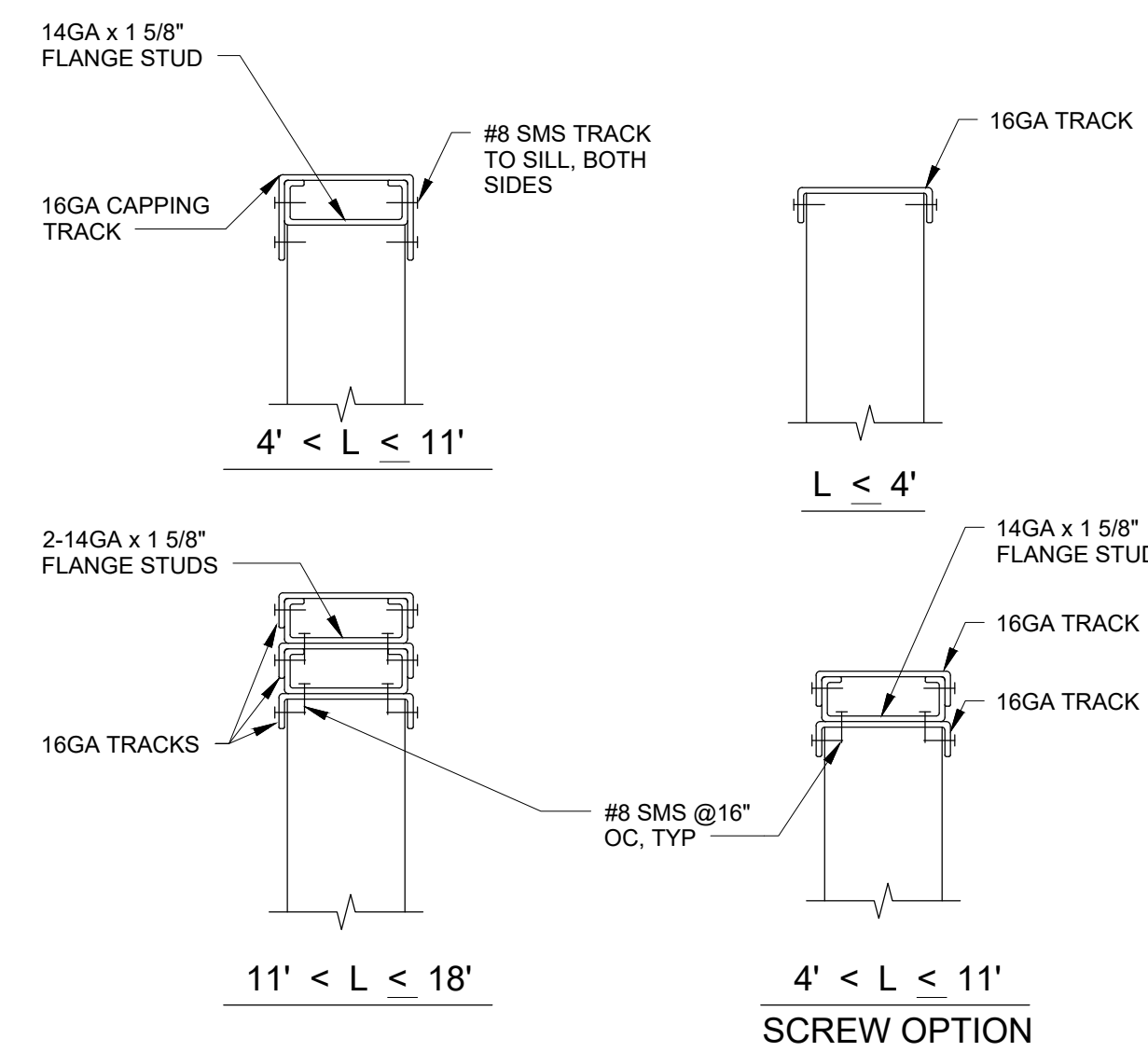
NOTE: WHEN $L > 12'-0"$.

$L < 4'$

$4' < L < 18'$

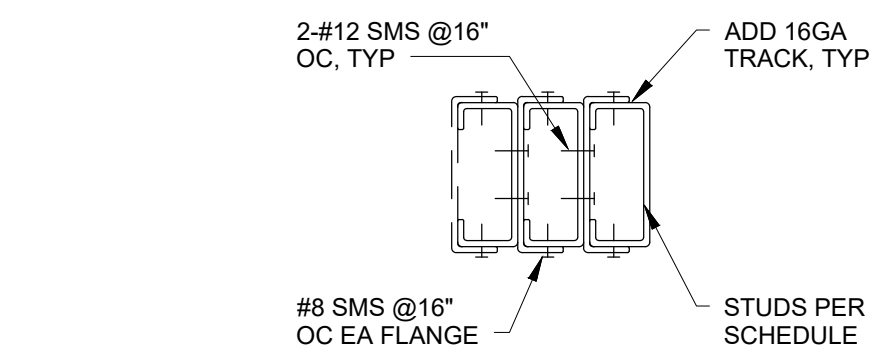
10 TYPICAL SILL AND JAMB CONNECTION

$1 \frac{1}{2}" = 1'-0"$



9 SILLS

$1 \frac{1}{2}" = 1'-0"$

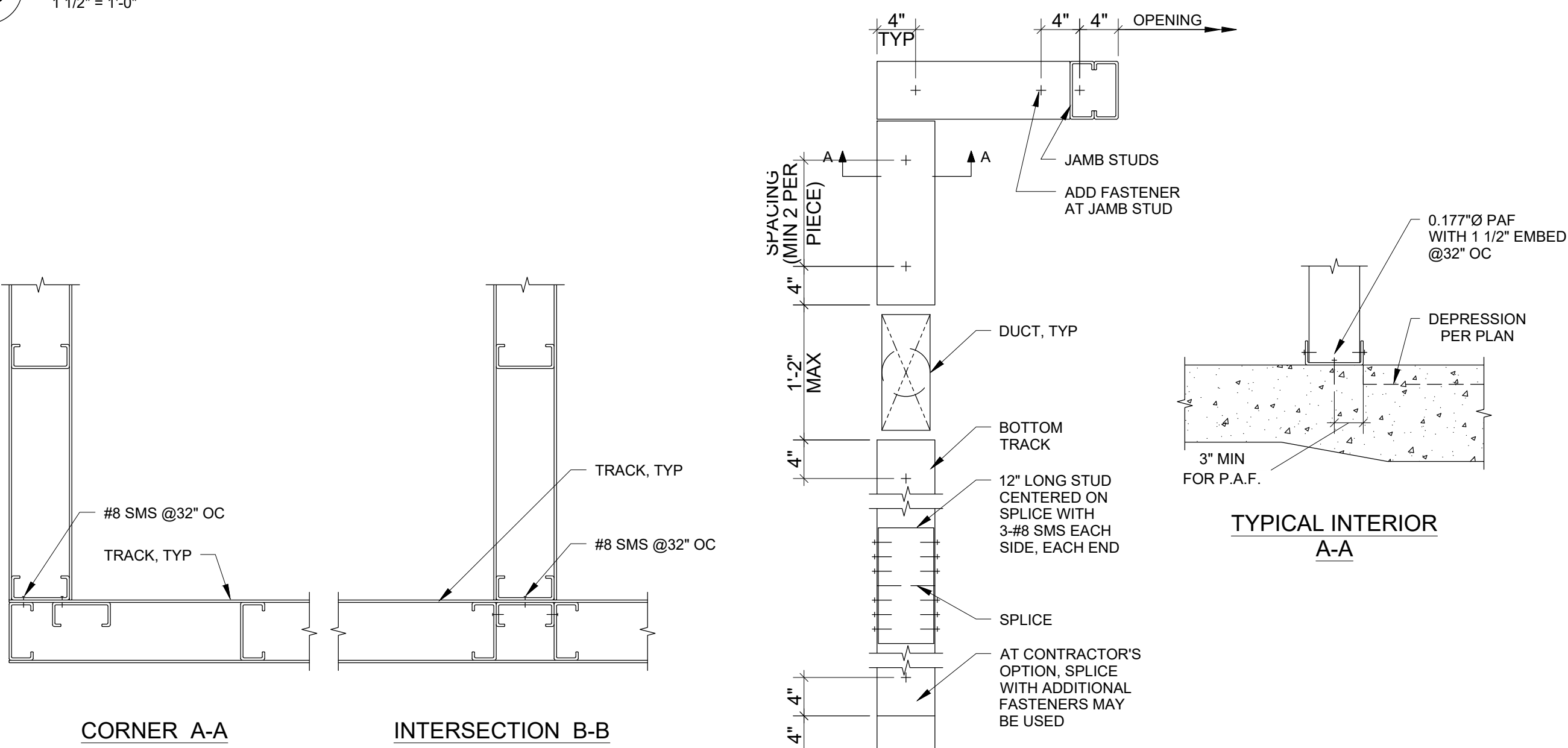


JAMB STUD SCHEDULE		
NUMBER OF STUDS AND GAGE	MAX ALLOWABLE OPENING WIDTH, L OR MAX ALLOWABLE COMBINE OPENING WIDTH L1 + L2 AT ADJACENT OPENING	MIN JAMB STUD DEPTH (1)
(2) STUDS 16GA	6' - 0"	-----
(2) STUDS 16GA	12' - 0"	3 5/8" MIN
(3) STUDS 16GA	18' - 0"	6" MIN

NOTE: 1. JAMB STUD DEPTHS SHALL MATCH TYPICAL WALL STUD DETPHS, UNLESS NOTED OTHERWISE.

8 JAMBS

$1 \frac{1}{2}" = 1'-0"$

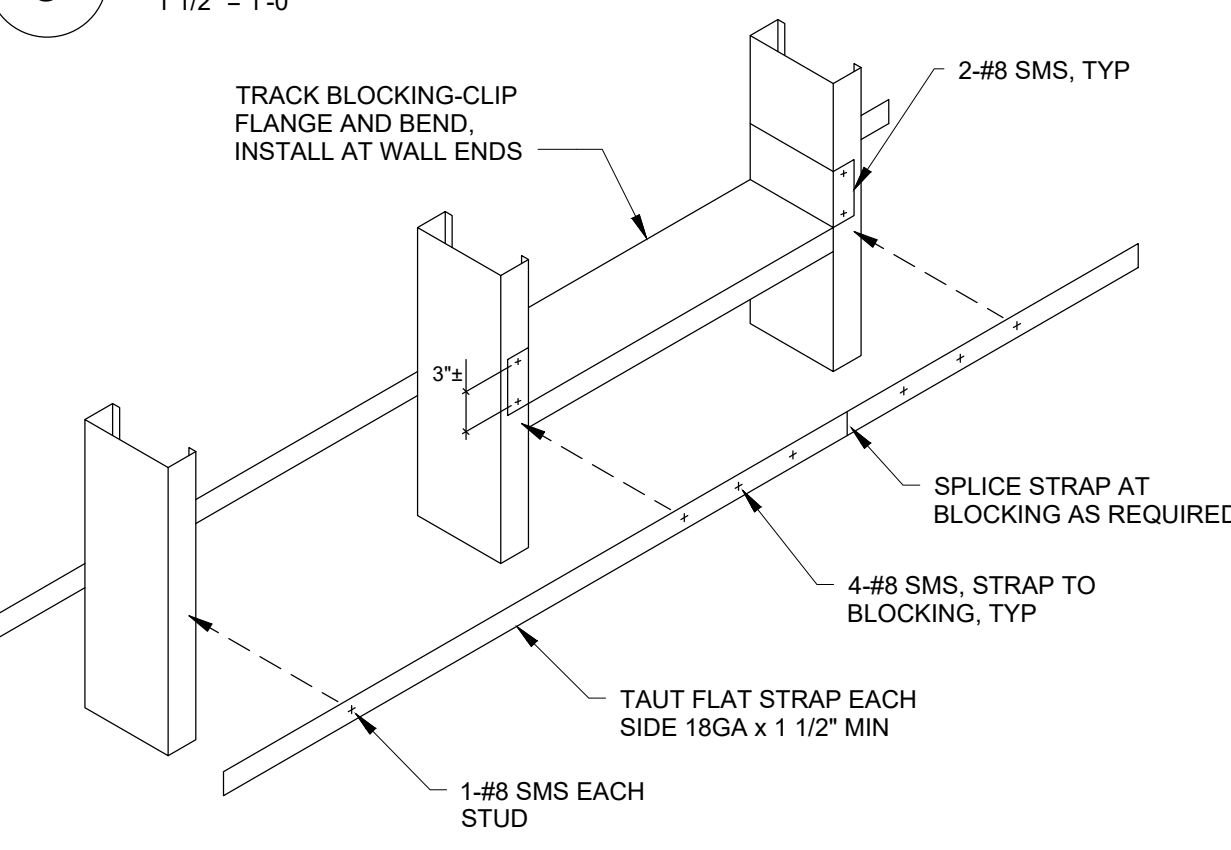


14 WALL CORNERS AND INTERSECTION

$1" = 1'-0"$

13 BOTTOM TRACK

$1" = 1'-0"$

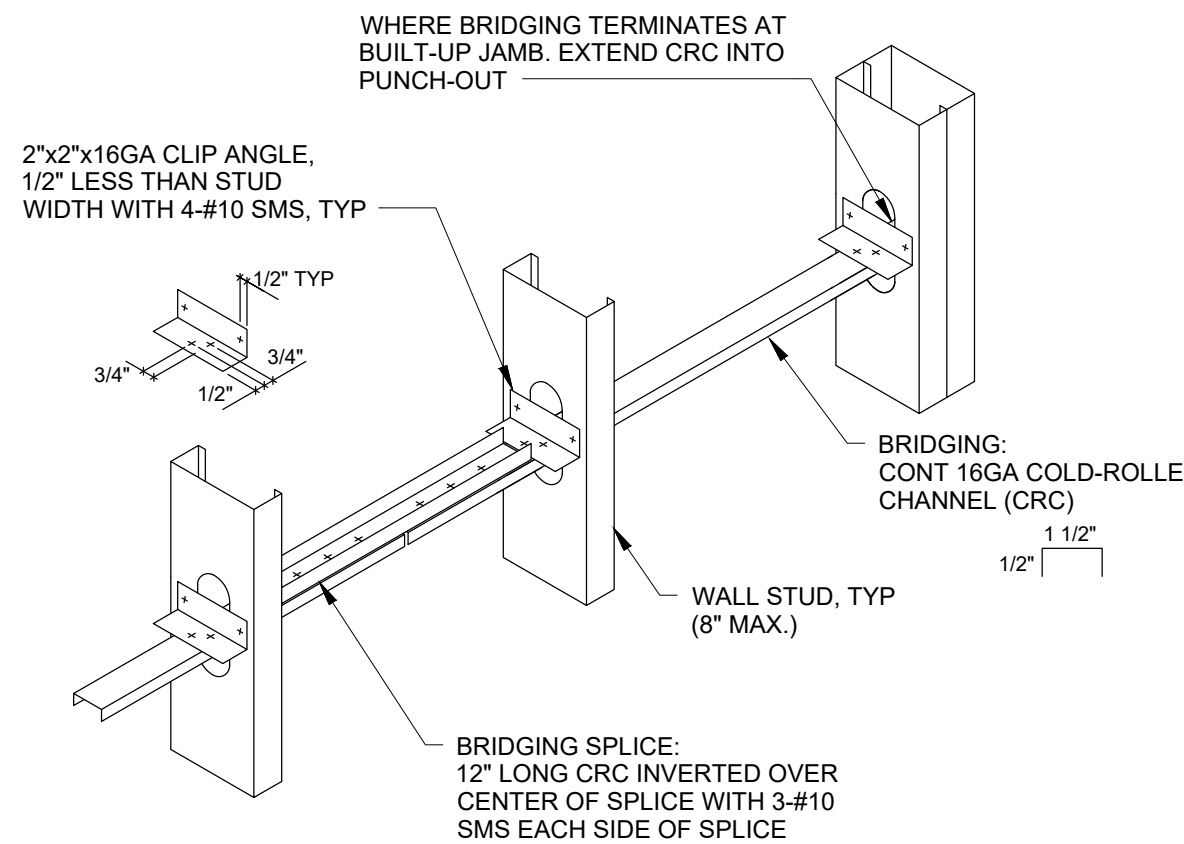


12 BRIDGING - ALTERNATE

$1" = 1'-0"$

8 JAMBS

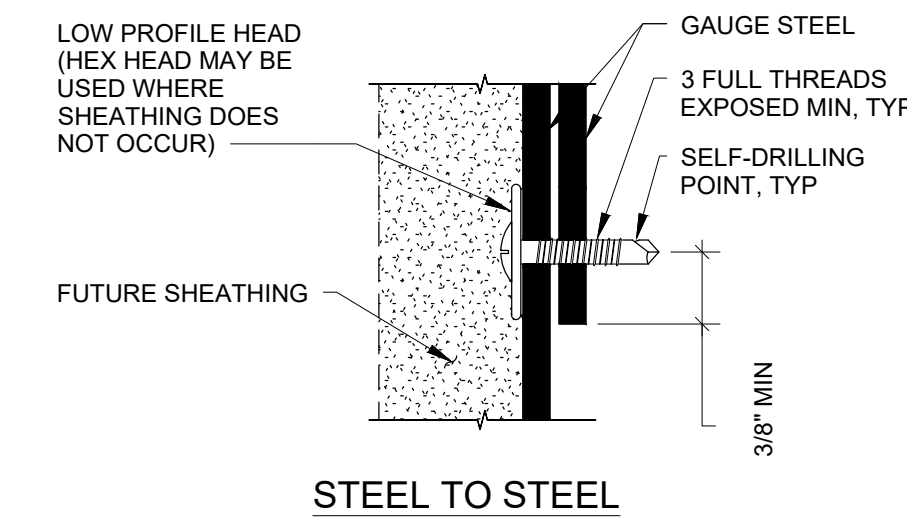
$1 \frac{1}{2}" = 1'-0"$



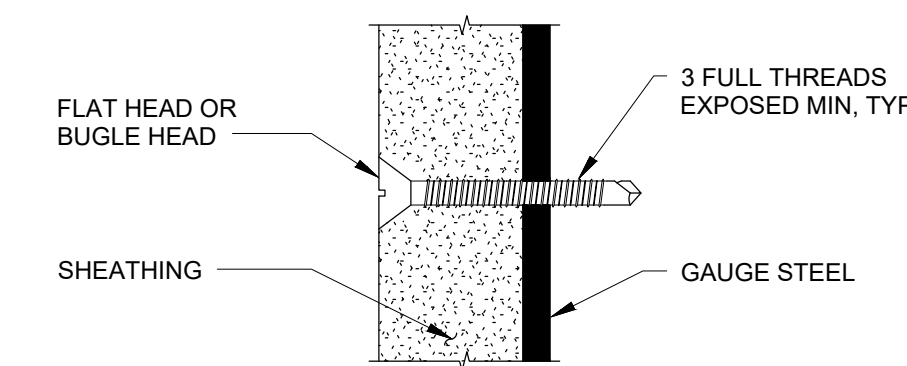
NOTE: DETAIL 17 ON THIS SHEET MAY BE USED AS AN ALTERNATE.

11 BRIDGING

$1" = 1'-0"$



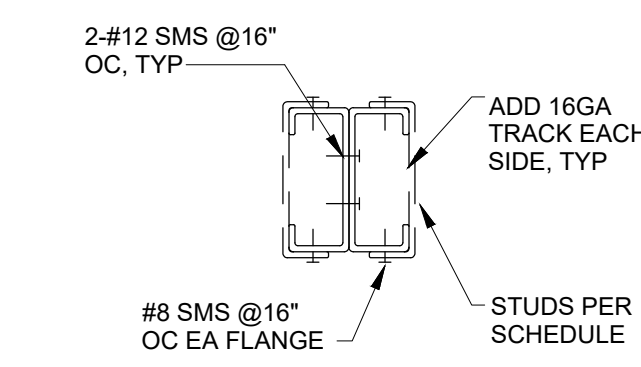
STEEL TO STEEL



SHEATHING TO STEEL

16 BUILT UP POST @ LOW WALLS

$1 \frac{1}{2}" = 1'-0"$

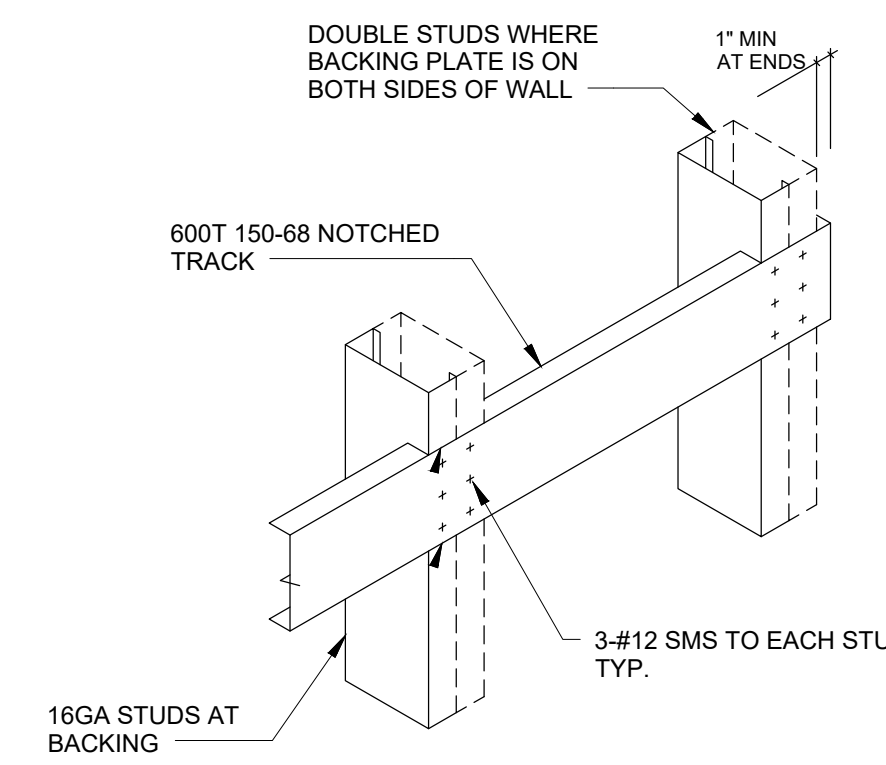


15 SHEET METAL SCREW (SMS)

$1 \frac{1}{2}" = 1'-0"$

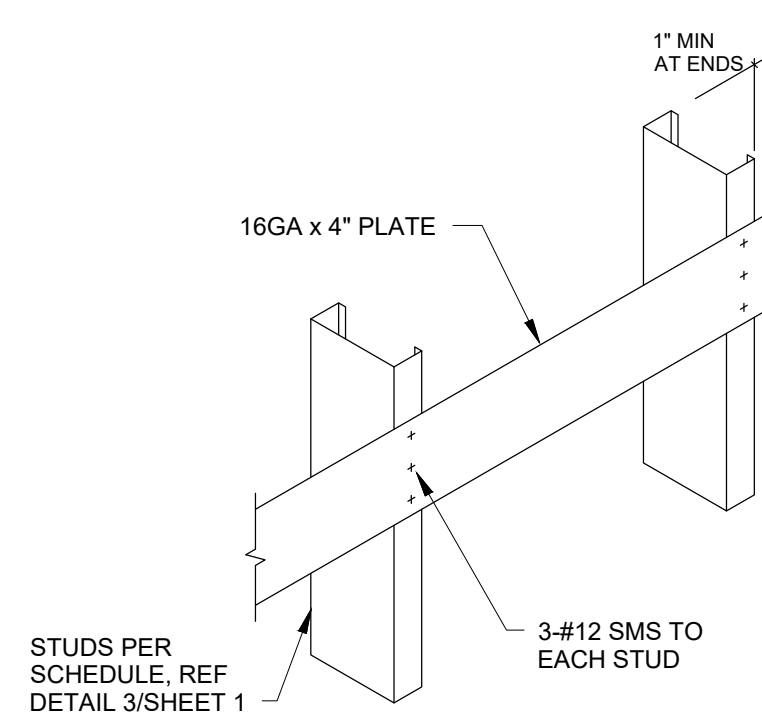
NOTES:

1. USE FOR UPPER WALL HUNG CABINET, FULL HEIGHT CABINET, GRAB BARS, HANDRAILS, WALL HUNG EQUIPMENT, ETC. MAX WT 300 LBS/LN FT.
2. LENGTH, HEIGHT AND LOCATION TO SUIT ITEMS BEING FASTENED. SEE ANCHORAGE DETAIL OF SPECIFIC ITEMS FOR ADDITIONAL INFORMATION.
3. ATTACH TO THREE STUDS MIN (DOUBLE STUD COUNTS AS ONE STUD).
4. USE #12 SCREWS MIN WHEN ATTACHING ITEMS.
5. USE DOUBLE STUDS WHEN STUD IS SUPPORTING BACKING ON BOTH SIDES.



NOTES:

1. USE FOR MISC ITEMS (EG. SURFACE MOUNTED MIRROR, WASTE RECEPTACLE, TOWEL DISPENSERS, WALL MOUNTED DOOR STOPS, ETC. MAX WT 50 LB POINT LOAD.
2. VERIFY NUMBER, LENGTH, HEIGHT AND LOCATION OF BACKING PLATE REQUIRED WITH ACCESSORY MANUFACTURERS.
3. USE #12 SHEET METAL SCREWS MIN WHEN ATTACHING ITEMS TO BACKING.



18 BACKING TYPE 2

$1" = 1'-0"$

17 BACKING TYPE 1

$1" = 1'-0"$

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SEAL:

CONSULTANT:

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PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

S502

PLUMBING LEGEND

Table with plumbing symbols and descriptions: PIPE DROP, PIPE UP, PIPE BREAK, FLOOR CLEANOUT, CLEANOUT TO GRADE, GATE VALVE, BALL VALVE, CHECK VALVE, UNION, THERMOMETER, PRESSURE/TEMPERATURE RELIEF VALVE, HOSE BIBB (DIAGRAM), HOSE BIBB, FLOOR DRAIN, POINT OF CONNECTION, CAP INSTALLED ON (E) PIPE, WALL CLEAN OUT, DIRECTION OF PITCH IN PIPING, AT % GRADE, SANITARY SEWER PIPE, BG, SANITARY SEWER PIPE, AFG OR AFF, KITCHEN GREASE WASTE PIPE, BG, PROCESS WASTE, FUEL GAS PIPE (NATURAL OR PROPANE), DOMESTIC COLD WATER PIPE, DOMESTIC HOT WATER PIPE, DOMESTIC HOT WATER RETURN PIPE, VENT PIPE, ABOVE FINISHED GRADE.

ABBREVIATIONS

Table of abbreviations: (N) NEW, (E) EXISTING, AD ACCESS DOOR, AFC ABOVE FINISHED CEILING, AFF ABOVE FINISHED FLOOR, AFG ABOVE FINISHED GRADE, AHJ AUTHORITY HAVING JURISDICTION, AL ACOUSTICALLY LINED ALUMINUM, ALM ALUMINUM, AP ACCESS PANEL, APSI ABSOLUTE PRESSURE, ATR ALL THREAD ROD, BF BELOW FLOOR, BG BELOW GRADE, BHP BRAKE HORSEPOWER, BLKG BLOCKING, BO BY OTHERS, BTU BRITISH THERMAL UNITS, BTUH BRITISH THERMAL UNITS PER HOUR, BV BALL VALVE, CD CONDENSATE DRAIN PIPING, CFF CAPPED FOR FUTURE, CFH CUBIC FEET PER HOUR, CFM CUBIC FEET PER MINUTE, CHWR CHILLED WATER RETURN, CHWS CHILLED WATER SUPPLY, CK CHECK VALVE, COTG CLEANOUT TO GRADE, CTE CONNECT TO EXISTING, CV CONSTANT VOLUME, CW DOMESTIC COLD WATER, CWV COMBINATION WASTE & VENT, DB DRY BULB TEMPERATURE, DH DUCT HEATER, DIA DIAMETER, DN DOWN, DWV DRAIN, WASTE, AND VENT, EA EXHAUST AIR, EAT ENTERING AIR TEMPERATURE, EC ELECTRICAL CONTRACTOR, ECM ELECTRONIC COMMUTATED MOTOR, EDH ELECTRIC DUCT HEATER, EFF EFFICIENCY, ESP EXTERNAL STATIC PRESSURE, EWT ENTERING WATER TEMPERATURE, F DEGREES FAHRENHEIT, FBO FURNISHED BY OTHERS, FC FLEXIBLE CONNECTION, FCO FLOOR CLEANOUT, FD FLOOR DRAIN, FD FIRE DAMPER, FLA FULL LOAD AMPERES, FS FLOOR SINK, FSD COMBINATION FIRE/SMOKE DAMPER, FPM FEET PER MINUTE, FT FEET, FT2 SQUARE FEET, G GAS PIPING, GC GAS COCK, GC GENERAL CONTRACTOR, GPF GALLONS PER FLUSH, GPM GALLONS PER MINUTE, GSMS GALVANIZED SHEET METAL SCREW, GV GATE VALVE, GW GREASE WASTE, HB HOSE BIBB, HHWR HEATING HOT WATER RETURN, HR HEAT RECOVERY, HWS HEATING HOT WATER SUPPLY, HP HORSEPOWER, HW DOMESTIC HOT WATER, HX HEAT EXCHANGER, IFC IN FURRED CEILING, IN INCH, INB WATER HAMMER ARRESTOR, INS INCHES, INS INSULATION, IS IN SOFFIT, IS ISSUE, IW INDIRECT WASTE, K KILOGRAMS, LAT LEAVING AIR TEMPERATURE, LBS POUNDS, LWT LEAVING WATER TEMPERATURE, MAT MIXED AIR TEMPERATURE, MAX MAXIMUM, MBH THOUSANDS BTUH, MCA MINIMUM CIRCUIT AMPERES, MFR MANUFACTURER, MIN MINIMUM, MOCP MAXIMUM OVERCURRENT PROTECTION, NA NOT APPLICABLE, NC NORMALLY CLOSED, NIC NOT IN CONTRACT, NO NORMALLY OPEN, OA OUTSIDE AIR, OC ON CENTER, OD OVERFLOW DRAIN, OP OWNER PROVIDED, PH PRE-HEAT, POC POINT OF CONNECTION, PRTV PRESSURE/TEMPERATURE RELIEF VALVE, PRV PRESSURE RELIEF VALVE, PSI GAUGE PRESSURE (POUNDS PER SQUARE INCH), PTFD PRESSURE TREATED DOUGLAS FIR, RA RETURN AIR, RD ROOF DRAIN, RVD RELIEF VALVE DISCHARGE, RL REFRIGERANT LIQUID PIPING, RPB REDUCED PRESSURE BACKFLOW PREVENTER, RPM REVOLUTIONS PER MINUTE, RS REFRIGERANT SUCTION PIPING, RWL RAINWATER LEADER, S SENSOR, SA SHOCK ABSORBER, SA SUPPLY AIR, SAD SEE ARCHITECTURAL DRAWINGS, SCD SEE CIVIL DRAWINGS, SD STORM DRAIN, SD SMOKE DETECTOR, SED SEE ELECTRICAL DRAWINGS, SEER SEASONAL ENERGY EFFICIENCY RATIO, SHGF SOLAR HEAT GAIN FACTOR, SHR SENSIBLE HEAT RATIO, SMD SEE MECHANICAL DRAWINGS, SMS SHEET METAL SCREW, SOV SHUT OFF VALVE, SP SPRINKLER, SP STATIC PRESSURE, SPD SEE PLUMBING DRAWINGS, SQFT SQUARE FEET, SS SANITARY SEWER, SSD SEE STRUCTURAL DRAWINGS, T THERMOSTAT, TH THERMOMETER, TPV TRAP PRIMER VALVE, TSP TOTAL STATIC PRESSURE, TVP TYPICAL, U UNION, UG UNDERGROUND, UNON UNLESS OTHERWISE NOTED, V VENT PIPING, VAV VARIABLE AIR VOLUME, VD VOLUME DAMPER, VFD VARIABLE FREQUENCY DRIVE, VIF VERIFY IN FIELD, VPH VOLTS PER HERTZ, VSD VARIABLE SPEED DRIVE, VTR VENT THROUGH ROOF, W WITH, W/O WITHOUT, WA WATER HAMMER ARRESTOR, WB WET BULB TEMPERATURE, WC WATER COLUMN, WCO WALL CLEANOUT, WT WEIGHT.

PIPE MATERIAL SCHEDULE

Table with pipe material specifications: DOMESTIC WATER (ABOVE GRADE: TYPE-1 COPPER, BELOW GRADE: HDPE, DR 13.5), NATURAL GAS (ABOVE GRADE: GALVANIZED, SCHEDULE 40, BELOW GRADE: HDPE YELLOW PIPE), SANITARY SEWER (CAST IRON, SCHEDULE 40), VENT (CAST IRON, SCHEDULE 40 / TYPE-DWV COPPER).

- 1. DOMESTIC WATER PIPING MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED WITHIN 2019 CPC, TABLE 604.1.
2. GAS PIPING MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED WITHIN 2019 CPC, SECTION 1208.6.
3. DRAIN, WASTE AND VENT PIPING MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED WITHIN 2019 CPC, TABLE 701.2.
4. MISCELLANEOUS FITTINGS, SOLVENTS, JOINING MATERIALS AND ALL OTHER PIPING COMPONENT MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED IN TABLE 1701.1.
5. BELOW GRADE DOMESTIC WATER PIPE SHALL CONFORM WITH ANSISF-61 STANDARDS AND BE UL LISTED.

DOMESTIC WATER PIPE SIZE

Table with pipe size specifications: PIPE MATERIAL: TYPE "1" COPPER, PRESSURE LOSS: 5.0 PSI / 100 FT. MAXIMUM WSFU ALLOWANCE TABLE with columns for FLUSH VALVE, FLUSH TANK, SIZE, COLD WATER, COLD WATER, HOT WATER.

NOTE: HOT WATER PIPING SHALL NOT EXCEED VELOCITY OF 5 FT/SEC AND COLD WATER PIPING SHALL NOT EXCEED VELOCITY OF 8 FT/SEC.

CALGREEN NOTES

- IN ACCORDANCE WITH CALGREEN REQUIREMENTS, ALL PLUMBING FIXTURES SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS. NOTE ACTUAL DESIGN MAY EXCEED THE MINIMUMS NOTED BELOW. SEE PLANS AND SPECIFICATIONS FOR ACTUAL FIXTURE SPECIFICATIONS.
a. WATER CLOSETS (TOILETS) - FLUSHOMETER VALVE-TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME: ASME A 112.19.2/CSA B45.1 - 1.28 GAL (4.8 L)
b. WATER CLOSETS (TOILETS) - FLUSHOMETER VALVE-TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME: ASME A 112.19.14 AND U.S. EPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION - 1.28 GAL (4.8 L).
c. WATER CLOSETS (TOILETS) - TANK TYPE: U.S. EPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION
d. URINALS, MAXIMUM FLUSH VOLUME: ASME A 112.19.2/CSA B45.1 - 0.5 GAL (1.9 L)
e. URINALS, NONWATER URINALS: ASME A 112.19.19 (VITREOUS CHINA); ANSI Z124.9-2004 OR IAPMO Z124.9 (PLASTIC)
f. PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE - 0.5 GPM (1.9 L/MIN), ASME A 112.18.1/CSA B125.1
g. PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USE - 0.25 GAL (1.0 L) PER METERING CYCLE, ASME A 112.18.1/CSA B 125.1
h. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 1.5 GPM (5.7 L/MIN), ASME A 112.18.1/CSA B 125.1

EQUIPMENT ANCHORAGE NOTES

- MEP COMPONENT ANCHORAGE NOTE
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1615A. 1.12 THROUGH 1.22 AND ASCE 7-10 CHAPTER 6 AND 13.
1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTION 1616.

THE BRACING ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

DESIGN ASSUMPTIONS/CRITERIA

- 1. DOMESTIC COLD WATER IS ASSUMED TO BE AT A TEMPERATURE OF +60°F. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM DOMESTIC WATER TEMPERATURE AT BUILDING MAIN PRIOR TO CONSTRUCTION.
2. HOT WATER DELIVERY SHALL BE AT A TEMPERATURE 120°F, DESIGNED WITH A 60°F TEMPERATURE RISE (WITH THE EXCEPTION OF PUBLIC LAVATORIES WHERE AN ASSE 1070 MIXING VALVE IS REQUIRED TO TEMPER THE WATER TO 105°F).
3. SANITARY SEWER PIPING SHALL SLOPE AT 1/4" PER FOOT IN THE DIRECTION OF FLOW UNLESS INDICATED OTHERWISE.
4. PENETRATIONS THROUGH FOOTINGS AND/OR FOUNDATIONS SHALL BE SLEEVED AND COORDINATED WITH THE STRUCTURAL ENGINEER OF RECORD.

PLUMBING GENERAL NOTES

- 1. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO BE USED AS A GUIDE FOR THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM. CONTRACTOR SHALL AMEND ALL INFORMATION AS REQUIRED AS SITE CONDITIONS WARRANT.
2. PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND WORKABLE INSTALLATION OF ALL SPECIFIED AND OWNER SUPPLIED EQUIPMENT AND FIXTURES.
3. ALL WORK SHALL BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
4. ALL PLUMBING SHALL BE RUN PERPENDICULAR TO STRUCTURE UNLESS OTHERWISE NOTED.
5. PLUMBING SHALL AVOID ARCHITECTURAL OPENINGS AND SHALL BE RUN CONCEALED UNLESS OTHERWISE NOTED.
6. PLUMBING SHALL MAINTAIN A CLEARANCE OF 1" MINIMUM FROM ALL COMBUSTIBLE SURFACES.
7. CONTRACTOR SHALL VISIT SITE, AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING OR FABRICATING. ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ACTUAL CONDITIONS SHALL BE ADDRESSED IN WRITING PRIOR TO COMMENCING WORK.
8. VALVES SHALL BE INSTALLED AT A SIZE EQUAL TO THE LINE SIZE OF THE PIPING SHOWN.
9. VALVES, SHOCK ABSORBERS, IN-LINE EQUIPMENT, ETC., SHALL NOT BE USED AS A LOCATION FOR SUPPORTS.
10. PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND AS CLOSE TO STRUCTURE AS POSSIBLE UNLESS OTHERWISE NOTED.
11. PROVIDE SEISMIC BRACING ON ALL PIPING GREATER THAN 12" FROM STRUCTURE.
12. MINIMUM INDIRECT WASTE AIR GAPS OVER FLOOR SINKS/DRAINS SHALL BE TWICE THE PIPE DIAMETER OF WASTE PIPE.
13. EACH VENT PIPE SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM, OR AT LEAST (3) FEET ABOVE ANY OPERABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT, NOR LESS THAN (3) FEET IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY AND STREET EXCEPTED. PER CPC 906.2
14. VALVES USED IN CONNECTION WITH GAS PIPING SHALL BE APPROVED TYPES AND SHALL BE ACCESSIBLE. PER CPC 1211.5
15. AN ACCESSIBLE SHUTOFF VALVE OF A TYPE SET FORTH IN CPC SECTION 1211.5, SHALL BE INSTALLED IN THE FUEL SUPPLY PIPING OUTSIDE OF EACH APPLIANCE AND AHEAD OF THE UNION CONNECTION THERETO, AND IN ADDITION TO ANY VALVE ON THE APPLIANCE. SHUTOFF VALVES SHALL BE WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES, AND IN THE SAME ROOM OR SPACE WHERE THE APPLIANCE IS LOCATED. PER CPC 1211.5
16. CONDENSATE WASTE DISPOSAL: THE WASTE PIPING SHALL HAVE A SLOPE OF NOT LESS THAN 1/8" PER FOOT OR ONE PERCENT SLOPE AND SHALL BE OF APPROVED CORROSION-RESISTANT MATERIAL NOT SMALLER THAN THE OUTLET SIZE AS REQUIRED IN CPC TABLE 814.1. CONDENSATE OR WASTE WATER SHALL NOT DRAIN OVER A PUBLIC WAY. PER CPC 814.3.
17. THE DRAWINGS REPRESENT THE DIAGRAMMATIC GRAPHICAL REPRESENTATION OF THE SCOPE OF WORK AND SHOULD NOT BE USED SOLELY TO DETERMINE SCOPE. CONTRACTORS SHALL BID THE ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING CROSS DISCIPLINE INFORMATION. ALL BIDS BASED UPON DRAWING INFORMATION ONLY CAN BE ASSUMED TO BE INCOMPLETE AND INCONCLUSIVE TO DETERMINE ENTIRE SCOPE OF WORK.
18. DESIGN AND EQUIPMENT PERFORMANCES ARE BASED ON THE EQUIPMENT SCHEDULED AND SPECIFIED HEREIN. ANY ALTERATIONS OR SUBSTITUTIONS OF ANY EQUIPMENT SHALL BE SUBMITTED, REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO ORDERING OF EQUIPMENT.
19. PROVIDE LINE OR LOW VOLTAGE POWER WIRING FOR ALL CONTROLS. COORDINATE CONTROL SYSTEM POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR INCLUDING DAMPER MOTORS, CONTROL PANELS AND ALL DEVICES REQUIRING POWER. ALL WIRING AND COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE LATEST EDITION.
20. COORDINATE FINAL ELECTRICAL AMPERAGES AND VOLTAGES WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
21. PROVIDE NAIL PLATES AT ALL STUD PIPING PENETRATIONS.
22. AT PUBLIC-USE LAVATORIES, PROVIDE MIXING VALVE (WATTS LFMMV OR APPROVED EQUAL) TO LIMIT HOT WATER SUPPLY TEMPERATURE TO A MAXIMUM OF 120°F. PER 2016 CPC, SECTION 407.3, THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR HOT WATER SUPPLY TEMPERATURE.
23. DRAWINGS, SPECIFICATIONS, NOTES AND CALCULATIONS ARE FOR PERMIT SUBMITTAL ONLY TO THE AUTHORITY HAVING JURISDICTION. PLANS ARE NOT INTENDED FOR CONSTRUCTION, BIDDING AND/OR ESTIMATING UNTIL STAMPED AND SIGNED BY A LICENSED MECHANICAL ENGINEER AND THIS NOTE IS REMOVED.
24. PROVIDE ALL CONTROL WIRING AND DEVICES AS REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM. ALL WIRING AND DEVICES SHALL BE IN STRICT ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL SUBCONTRACTOR.

DOCUMENT LIST

CONTRACTOR SHALL REVIEW ENTIRE CONSTRUCTION SET, INCLUDING, BUT NOT LIMITED TO ALL SPECIFICATIONS, DRAWINGS, PROJECT MANUAL, CALCULATIONS AND CUT-SHEETS. ADDITIONAL LIST OF DOCUMENTS AND DRAWINGS CONTAINED HEREIN, INCLUDE:
P0.01 PLUMBING NOTES, LEGEND, SCHEDULES, ABBREVIATIONS
P0.02 PLUMBING SPECIFICATIONS
P0.03 PLUMBING SPECIFICATIONS
P1.01 PLUMBING PLANS - BUILDING 1 FIRST FLOOR - DRAIN, WASTE, AND VENT
P1.02 PLUMBING PLANS - BUILDING 1 SECOND FLOOR - DRAIN, WASTE, AND VENT
P1.03 PLUMBING PLANS - BUILDING 2 - DRAIN, WASTE, AND VENT
P1.04 PLUMBING PLANS - BUILDING 1 FIRST FLOOR - DOMESTIC WATER
P1.05 PLUMBING PLANS - BUILDING 1 SECOND FLOOR - DOMESTIC WATER
P1.06 PLUMBING PLANS - BUILDING 2 - DOMESTIC WATER
P0.01 PLUMBING DETAILS

ISSUE DATE: 03/11/22
PERMIT SET
DRAWN BY: CK
DESIGNER:
PROJ MGR:
PEER REVIEW: JT/MT
SHEET NUMBER:

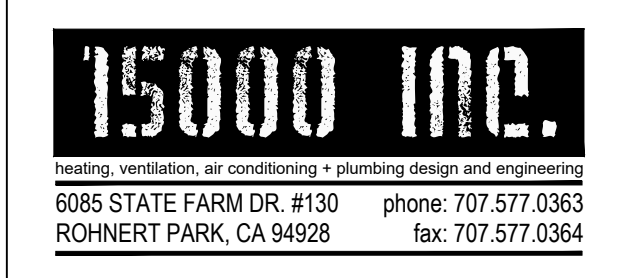
REVISION SCHEDULE

Table with columns: NO., DESCRIPTION, DATE

SEAL:



CONSULTANT:



BrokawDesign

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ROHNERT PARK, CA 94927
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PROJECT:

THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:

PLUMBING NOTES, LEGEND, SCHEDULES, & ABBREVIATIONS

ISSUE DATE: 03/11/22
PERMIT SET
DRAWN BY: CK
DESIGNER:
PROJ MGR:
PEER REVIEW: JT/MT
SHEET NUMBER:

P0.01

220000 - GENERAL REQUIREMENTS

SECTION 22 00 00
GENERAL REQUIREMENTS - PLUMBING
PART 1 - GENERAL
1.01 DESCRIPTION - This Section 22 00 00 includes General Requirements for the work.
1.02 WORK INCLUDED
A. Provide all materials, equipment, labor, fabrication, specialties, and items necessary and incidental to the installations.
B. Work included shall also include transportation, storage, utilities and required licenses and permits.
1.03 RELATED WORK AND REQUIREMENTS
A. The work of this Section shall require work in coordination with other Divisions outside of this Section as follows:
1. Division 1 - General Requirements
2. Division 26 - Electrical
1.04 QUALITY ASSURANCE
A. Comply with Division 1 requirements regarding Quality Control and Assurance.
B. Products Criteria:
1. Standard Products: Material and equipment shall be the standard products of a manufacturer regularly engaged in the manufacture of the products for at least 3 years.
2. Equipment Service: There shall be permanent service organizations, authorized and trained by manufacturers of the equipment supplied, located within 100 miles of the project.
3. All items furnished shall be free from defects that would adversely affect the performance, maintainability and appearance of individual components and overall assembly.
4. Nameplates: Nameplate bearing manufacturer's name or identifiable trademark shall be securely affixed in a conspicuous place on equipment, or name or trademark cast integrally with equipment, stamped or otherwise permanently marked on each item of equipment.
5. Asbestos products or equipment or materials containing asbestos shall not be used.
C. Manufacturer's Recommendations: Where installation procedures or any part thereof are required to be in accordance with the recommendations of the manufacturer of the material being installed, printed copies of these recommendations shall be furnished to the Engineer of Record prior to installation.
D. Execution (Installation, Construction) Quality:
1. All items shall be applied and installed in accordance with manufacturer's written instructions.
1.05 SUBMITTALS
A. Comply with Division 1 requirements regarding submittals and the requirements herein.
B. Contractor shall make all necessary field measurements and investigations to assure that the equipment and assemblies will meet contract requirements.
C. If equipment is submitted which differs in arrangement from that shown, provide drawings that show the rearrangement of all associated systems.
D. Prior to submitting layout drawings for approval, contractor shall certify in writing that manufacturers of all major items of equipment have each reviewed drawings and specifications, and have jointly coordinated and properly integrated their equipment and controls to provide a complete and efficient installation.
E. Upon request by Engineer of Record, lists of previous installations for selected items of equipment shall be provided.
F. Manufacturer's Literature and Data: Manufacturer's literature shall be submitted under the pertinent section rather than under this section.
1. Electric motor data and variable speed drive data shall be submitted with the driven equipment.
2. Equipment and materials identification.
3. Fire stopping materials.
4. Hangers, inserts, supports and bracing.
5. Wall, floor, and ceiling plates.
G. Maintenance Data and Operating Instructions:
1. Maintenance and operating manuals in accordance with Division 01 for systems and equipment and as stated herein.
2. Listing of recommended replacement parts for keeping in stock supply, including sources of supply, for equipment shall be provided.
3. The listing shall include belts for equipment: Belt manufacturer, model number, size and style, and distinguished whether of multiple belt sets.
H. Clearly and neatly strike out of irrelevant information. Clearly and neatly tag and mark equipment, options and specialties and special features.
I. If substituting on Specified equipment provide comprehensive written comparison of characteristics between specified and substituted equipment.
J. Provide information in an easily readable and legible format presentation.
K. Submit all items at the same time.
L. Unless specified otherwise in Division 1 requirements submit 5 copies of data.
M. Paper copies shall be the only acceptable submittal medium.
N. Submittals shall be prepared and submitted in a timely fashion to allow adequate time for ordering of long lead time equipment and materials.
1.06 DELIVERY, STORAGE AND HANDLING
A. Protection of Equipment:

220000 - GENERAL REQUIREMENTS

A. Protection of Equipment:
1. Equipment and material placed on the job site shall remain in the custody of the Contractor until phased acceptance, whether or not the Owner has reimbursed the Contractor for the equipment and material.
2. Damaged equipment shall be replaced with an identical unit as determined and directed by the Engineer of Record.
3. Interiors of new equipment and piping systems shall be protected against entry of foreign matter.
4. Existing equipment and piping being worked on by the Contractor shall be under the custody and responsibility of the Contractor and shall be protected as required for new work.
B. Cleanliness of Piping and Equipment Systems:
1. Care shall be exercised in the storage and handling of equipment and piping material to be incorporated in the work.
2. Piping systems shall be flushed, blown or pigged as necessary to deliver clean systems.
3. The interior of all tanks shall be cleaned prior to delivery and beneficial use by the Owner.
1.07 APPLICABLE PUBLICATIONS
A. The publications listed below shall form a part of this specification to the extent referenced.
B. American Society of Mechanical Engineers (ASME):
1. Boiler and Pressure Vessel Code (BPVC)
C. California Building Codes
1. CBC - California Building Code
2. CMC - California Mechanical Code
3. CPC - California Plumbing Code
4. CEC - California Electrical Code
5. CFC - California Fire Code
6. CEC - California Energy Commission (Title 24)
D. When the work calls for more stringent requirements than the above listings the Specifications and Drawings shall have precedence.
1.08 SITE VISIT AND FAMILIARIZATION
A. Visit the site and become familiar with the Drawings and Specifications.
B. Refer to Division 1 for Pre-Bid Conference requirements.
1.09 REVIEW OF CONSTRUCTION
A. Work may be reviewed, without prior notice, at any time by representatives of Owner.
B. Advise Owner and Owner Representative when work is ready for review at the following times:
1. Prior to concealment of Work in walls and above ceilings and any other enclosable spaces.
1.10 BID DOCUMENT DESCRIPTION
A. Specifications describe quality of materials and equipment.
B. Drawings describe the work in diagrammatic form.
PART 2 - PRODUCTS
2.01 MATERIALS
A. Materials, equipment and supplies shall be new and latest types and models of manufacturers and shall bear identification markings, nameplates and labels.
B. Equipment specified by manufacturer's number shall include all accessories, controls, etc., listed in catalog as standard with equipment.
C. Where no specific make of material or equipment is mentioned, any first class product of good reputable manufacturer may be used, provided it conforms to requirements of system and meets acceptance of Owner.
D. Equipment, material and supplies damaged during transportation, installation and operation is considered as totally damaged and shall be replaced with new.
E. Provide an authorized representative to constantly supervise work of this Division, check all materials prior to installation for conformance with Drawings, Specifications, reviewed Submittals and reviewed Coordination Drawings as referenced in Part 1.
F. Electrical Work performed in the service of the plumbing and piping installation shall conform to Division 25 Electrical requirements.
2.02 FACTORY-ASSEMBLED PRODUCTS
A. Standardization of components shall be maximized to reduce spare part requirements.
B. Manufacturers of equipment assemblies that include components made by others shall assume complete responsibility for final assembled unit.
1. All components of an assembled unit need not be products of same manufacturer.
2. Constituent parts that are alike shall be products of a single manufacturer.
3. Components shall be compatible with each other and with the total assembly for intended service.
4. Contractor shall guarantee performance of assemblies of components, and shall repair or replace elements of the assemblies as required to deliver specified performance of the complete assembly.
C. Components of equipment shall bear manufacturer's name and trademark, model number, serial number and performance data on a name plate securely affixed in a conspicuous place, or cast integral with, stamped or otherwise permanently marked upon the components of the equipment.
D. Major items of equipment, which serve the same function, shall be the same make and model.
2.03 EQUIPMENT AND MATERIALS IDENTIFICATION
A. Interior (Indoor) Equipment: Engraved nameplates, with letters not less than 3/16 inch high of brass with black filled letters, or rigid black plastic with white letters.
B. Exterior (Outdoor) Equipment: Brass nameplates, with engraved black filled letters, not less than 3/16 inch high riveted or bolted to the equipment.
C. Control Items: All temperature, pressure, and controllers shall be labeled and the component's function identified.
D. Valve Tags and Lists:
1. Plumbing: All valves shall be provided with valve tags and listed on a valve list.
2. Valve tags: Engraved black filled numbers and letters not less than 1/2 inch high for number designation, and not less than 1/4 inch for service designation on 19 gage, 1-1/2 inches round brass disc, attached with brass "S" hook or brass chain.

220000 - GENERAL REQUIREMENTS

2.04 PIPE AND EQUIPMENT SUPPORTS AND RESTRAINTS
A. Model numbers listed are by Cooper Industries.
B. For Attachment to Concrete Construction:
1. Concrete insert: Type 18, MSS SP_58.
2. Self-drilling expansion shields and machine bolt expansion anchors: Permitted in concrete not less than 4 inches thick when approved by the Structural Engineer of Record for each job condition.
3. Power-driven fasteners: Permitted in existing concrete or masonry not less than 4 inches thick when approved by the Structural Engineer of Record for each job condition.
C. For Attachment to Steel Construction: MSS SP_58.
1. Welded attachment: Type 22.
2. Beam clamps: Types 20, 21, 28 or 29. Type 23 C-clamp may be used for individual copper tubing up to 7/8 inch outside diameter.
D. For Attachment to Wood Construction: Wood screws or lag bolts.
E. Hanger Rods: Hot-rolled steel, ASTM A36 or A575 for allowable load listed in MSS SP-58.
F. Pipe Hangers and Supports: (MSS SP_58); use hangers sized to encircle insulation on insulated piping.
1. General Types (MSS SP_58):
a. Standard clevis hanger: Type 1, provide locknut.
b. Copper Tube:
1. Hangers, clamps and other support material in contact with tubing shall be painted with copper colored epoxy paint, plastic coated or taped with isolation tape to prevent electrolysis.
2. For vertical runs use epoxy painted or plastic coated riser clamps.
3. For supporting tube to strut: Provide epoxy painted pipe straps for copper tube or plastic inserted vibration isolation clamps.
4. Insulated Lines: Provide pre-insulated calcium silicate shields sized for copper tube.
c. Spring hangers are required on all plumbing system pumps one horsepower and greater.
2. Plumbing Piping (Other Than General Types):
a. Horizontal piping: Type 1, 5, 7, 9, and 10.
b. Chrome plated piping: Chrome plated supports.
c. Hangers and supports in pipe chase: Prefabricated system ABS self-extinguishing material, not subject to electrolytic action, to hold piping, prevent vibration and compensate for all static and operational conditions.
d. Blocking, stays and bracing: Angle iron or preformed metal channel shapes, 18 gage minimum.
G. Pre-insulated Calcium Silicate Shields:
1. Provide 360 degree water resistant high density 140 psi compressive strength calcium silicate shields encased in galvanized metal.
2.05 PIPE PENETRATIONS
A. Pipe penetration sleeves shall be installed for all piping other than rectangular blocked out floor openings for risers in mechanical bays.
B. Pipe penetration sleeve materials shall comply with all fire stopping requirements for each penetration.
C. To prevent accidental liquid spills from passing to a lower level, provide the following:
1. For sleeves: Extend sleeve 1 inch above finished floor and provide sealant for watertight joint.
2. For blocked out floor openings: Provide 1-1/2 inch angle set in silicone adhesive around opening.
3. For drilled penetrations: Provide 1-1/2 inch angle ring or square set in silicone adhesive around penetration.
D. Penetrations are not allowed through beams or ribs, but may be installed in concrete beam flanges.
E. Sheet metal, plastic, or moisture resistant fiber sleeves shall be provided for pipe passing through floors, interior walls, and partitions, unless brass or steel pipe sleeves are specifically called for below.
F. Cast iron or zinc coated pipe sleeves shall be provided for pipe passing through exterior walls below grade.
G. Galvanized steel or an alternate black iron pipe with asphalt coating sleeves shall be for pipe passing through concrete beam flanges, except where brass pipe sleeves are called for.
H. Brass Pipe Sleeves shall be provided for pipe passing through quarry tile, terrazzo or ceramic tile floors.
I. Sleeve clearance through floors, walls, partitions, and beam flanges shall be 1 inch greater in diameter than external diameter of pipe.
PART 3 - EXECUTION
3.01 ARRANGEMENT AND INSTALLATION OF EQUIPMENT AND PIPING
A. Location of piping, sleeves, inserts, hangers, and equipment, access provisions shall be coordinated with the work of all trades.
B. Manufacturer's published recommendations shall be followed for installation methods not otherwise specified.
C. Operating Personnel Access and Observation Provisions: All equipment and systems shall be arranged to provide clear view and easy access, without use of portable ladders, for maintenance and operation of all devices including, but not limited to: all equipment items, valves, filters, strainers, transmitters, sensors, and control devices.
D. Structural systems necessary for pipe and equipment support shall be coordinated to permit proper installation.
E. Location of pipe sleeves, trenches and chases shall be accurately coordinated with equipment and piping locations.
F. Cutting Holes:
1. Holes through concrete and masonry shall be cut by rotary core drill.
2. Holes shall be located to avoid interference with structural members such as beams or grade beams.
3. Waterproof membrane shall not be penetrated.
3.02 CLEANING AND PAINTING
A. Prior to final inspection and acceptance of the plant and facilities for beneficial use by the Owner, the plant facilities, equipment and systems shall be thoroughly cleaned and painted.
3.04 STARTUP AND TEMPORARY OPERATION
A. Startup of equipment shall be performed as described in the equipment specifications.
3.05 OPERATING AND PERFORMANCE TESTS
A. Should evidence of malfunction in any tested system, or piece of equipment or component part thereof, occur during or as a result of tests, make proper corrections, repairs or replacements, and repeat tests at no additional cost to the Owner.
B. When completion of certain work or system occurs at a time when final control settings and adjustments cannot be properly made to make performance tests, then make performance tests such systems respectively during first actual seasonal use of respective systems following completion of work.
3.06 OPERATION AND MAINTENANCE MANUALS
A. Provide four bound copies.
B. All new and temporary equipment and all elements of each assembly shall be included.
C. Data sheet on each device listing model, size, capacity, pressure, speed, horsepower, impeller size, and other information shall be included.
3.07 PROTECTION OF WORK
A. Cap all fixture, pipe and equipment openings daily to protect from dust, moisture and incidental debris.
B. Porous materials that become wetted shall be replaced with new.
C. All air distribution shall be capped during construction to prevent accumulation of dirt, dust and debris.
3.08 SAFETY
A. The contractor shall be solely responsible for conditions of the job site, including safety of all persons and property during performance of the work.
3.09 RECORD DRAWINGS
A. Contractor is required to provide record Drawings in accordance with Division 01 - General Requirements and this section.
B. Keep and accurate record of job progress including as-built locations and of the Work.
C. In addition to any other requirements, include on as-built Drawings the following:
1. Changes in location of piping or equipment.
2. Ceiling access panel locations.
3. Position of buried or concealed mains accurately dimensioned, both horizontally and vertically.
3.10 COMPLETION
A. When Work is completed, or when Owner or Owner representative directs, remove surplus equipment, material, waste, and rubbish and leave building in satisfactory condition.
B. Adjust faucets and flush valves to give proper supply of water and leave in first class condition.
3.11 WARRANTIES AND GUARANTEES
A. Contractor is required to provide warranties in accordance with Division 1 - General Requirements.
1. Collect all warranties and guarantees for materials and equipment and neatly fill out all required information for the Owner.
B. At the completion of the work contractor shall guarantee to repair or replace materials and workmanship found defective for a period of one year from date of final Notice of Completion.
END OF SECTION

220000 - GENERAL REQUIREMENTS

G. Minor Piping: Generally, small diameter pipe runs from drips and drains, water cooling, and other service are not shown but must be provided.
H. Protection and Cleaning:
1. Equipment and materials shall be carefully handled, properly stored, and adequately protected to prevent damage before and during installation.
2. Protect all finished parts of equipment, such as shafts and bearings where accessible, from rust prior to operation by means of protective grease coating and wrapping.
3.02 PIPE AND EQUIPMENT SUPPORTS
A. Where hanger spacing does not correspond with joist or rib spacing, use structural steel channels secured directly to joist and rib structure that will correspond to the required hanger spacing.
B. The use of chain pipe supports, wire or strap hangers; wood for blocking, stays and bracing, or hangers suspended from piping above shall not be permitted.
3.03 CLEANING AND PAINTING
A. Prior to final inspection and acceptance of the plant and facilities for beneficial use by the Owner, the plant facilities, equipment and systems shall be thoroughly cleaned and painted.
3.04 STARTUP AND TEMPORARY OPERATION
A. Startup of equipment shall be performed as described in the equipment specifications.
3.05 OPERATING AND PERFORMANCE TESTS
A. Should evidence of malfunction in any tested system, or piece of equipment or component part thereof, occur during or as a result of tests, make proper corrections, repairs or replacements, and repeat tests at no additional cost to the Owner.
B. When completion of certain work or system occurs at a time when final control settings and adjustments cannot be properly made to make performance tests, then make performance tests such systems respectively during first actual seasonal use of respective systems following completion of work.
3.06 OPERATION AND MAINTENANCE MANUALS
A. Provide four bound copies.
B. All new and temporary equipment and all elements of each assembly shall be included.
C. Data sheet on each device listing model, size, capacity, pressure, speed, horsepower, impeller size, and other information shall be included.
3.07 PROTECTION OF WORK
A. Cap all fixture, pipe and equipment openings daily to protect from dust, moisture and incidental debris.
B. Porous materials that become wetted shall be replaced with new.
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B. Adjust faucets and flush valves to give proper supply of water and leave in first class condition.
3.11 WARRANTIES AND GUARANTEES
A. Contractor is required to provide warranties in accordance with Division 1 - General Requirements.
1. Collect all warranties and guarantees for materials and equipment and neatly fill out all required information for the Owner.
B. At the completion of the work contractor shall guarantee to repair or replace materials and workmanship found defective for a period of one year from date of final Notice of Completion.
END OF SECTION

220700 - PLUMBING INSULATION

SECTION 22 07 00
PLUMBING INSULATION
PART 1 - GENERAL
1.01 DESCRIPTION
A. Provide complete plumbing system insulation work for piping, equipment, and other items where shown on the drawings.
B. Insulation work shall comply with the requirements of the latest edition of the California Energy Code.
C. All insulation that is exposed to weather shall be protected with weather covers of stainless steel or aluminum jacketing.
D. Insulate all hot water and hot water recirculation piping.
E. Insulate all roof drain piping and all roof overflow drain piping.
F. All work of this section shall comply with Section 22 00 00 GENERAL REQUIREMENTS - PLUMBING
PART 2 - PRODUCTS
2.01 GENERAL
A. The type of insulation and its installation shall be in accordance with this Specification for each service and the application technique shall be as recommended by the manufacturer.
B. Fire Rating of all insulation shall have a composite (insulation, jacket or facing and adhesive used to adhere facing or jacket to insulation) fire and smoke hazard, as tested by ASTM E84, NFPA 255, and U.L. T23, not to exceed a flame spread of 25 and smoke developed by 50.
1. Accessories such as adhesives, mastics, tapes, and cements shall have the same component ratings as listed.
2. Products shall have integral factory labeling indicating that flame spread and smoke developed ratings do not exceed the above requirements.
2.02 FIXTURE INSULATION
A. ADA accessible fixtures shall have the hot water supply and waste piping insulated from connections at sink to connections at wall, building, or cabinetry surfaces.
B. Fire Rating of all insulation shall have a composite (insulation, jacket or facing and adhesive used to adhere facing or jacket to insulation) fire and smoke hazard, as tested by ASTM E84, NFPA 255, and U.L. T23, not to exceed a flame spread of 25 and smoke developed by 50.
1. There shall be no sharp or abrasive surfaces under lavatories.
2.03 PIPING INSULATION
A. Type A: Molded fiberglass
1. Maximum K factor: 0.23 at 75 deg. F mean temperature
2. Minimum Density: 4 lb/PCF
3. Factory applied all conditions or any other purpose jacket (ASJ): Fire retardant laminate of white Kraft facing, glass scrim reinforcing and aluminum foil.
4. Similar to Owens-Corning 650 ASJ.
B. Type B: Molded fiberglass fittings
1. Maximum K Factor: 0.23 at 75 deg. F mean temperature
2. Minimum Density: 4 lb/PCF
3. Similar to Epolux Hamfab molded fittings
C. Finishes, Adhesives, Sealants and Jackets for Piping Insulation:
1. Type 1: Fitting covers
a. Molded white PVC jacket
b. U.L. Class 1
c. Maximum permeance: 0.05
d. Similar to Manville Zeston
2. Type 2: Vapor barrier coating
a. White vapor barrier coating with 10 x 10 or 20 x 20 mesh white glass, polyester or nylon cloth reinforcing membranes.
b. 31 mil dry film thickness
c. Maximum permeance: 0.05
d. Similar to Foster Tite-Fit 30-35, U.L. Label
Insulation Schedule - Low Temperature Hot and Cold Water Piping Systems
INDOOR
Type: A
Finish: 1 or 2
Fittings and Valves:
Type: B
Finish: 1 or 2
Thickness: Up to 1 in. IPS 1 in.
Thickness: 1-1/2 - 4 in. IPS 2 in.
Vaporseal: Not required
3. Miscellaneous Cold Piping:
a. Including:
1. Domestic cold water concealed in unconditioned spaces and exposed outside to the elements.
b. Insulation Requirements.
1. Insulation: Type A
2. Vapor seal required.
3. Fittings: Type B with Type 2 finish
4. Non-Insulated Piping: Natural gas, vents and drains.
PART 3 - EXECUTION
3.01 GENERAL INSTALLATION REQUIREMENTS
A. Install insulation products in accordance with the manufacturer's written instruction, Commercial and Industrial Standards, and recognized industry practices to ensure that the insulation serves the intended purpose.
B. In addition to where specified provide insulation by type and locations as indicated on the Drawings.
C. After the installation of insulation protect the insulation from moisture and weather damage.

220700 - PLUMBING INSULATION

A. Before applying insulation:
1. Required pressure and leakage tests of joints and connections shall be completed.
2. Surfaces shall be clean of dust, grease and foreign matter and dry before application of insulation.
3. All insulation joints shall be butted firmly together and all jackets shall be smoothly and securely installed.
4. Insulate each pipe individually. Do not use scrap pieces of insulation where a full-length section will fit.
B. Piping:
1. Longitudinal Overlaps:
a. 2 in. minimum.
b. For exposed work: toward ceiling or wall.
2. Continuous insulation passing through sleeves or other openings.
3. Penetration of fire or smoke barriers: Wrap pipe with rock wool insulation, seal jacket seam and seal joints to adjacent sections of insulation.
a. For piping systems insulated with fiberglass:
1. Secure insulation with wire.
2. Under 3 in. pipe size, built up coating of Keene Superslick insulating and finishing cement applied over hexagonal wire mesh to match thickness of adjoining pipe insulation, may be used.
3. Finishes:
a) Type 1: Apply factory pre-molded coat and seal edges with Foster Foam seal 30-45 vapor barrier sealer.
b) Type 2: Apply uniform layer of finish coating to cover entire surface of fitting insulation and embed layer of fiber glass tape into wet coating, extending 2 in. over adjoining pipe covering.
F. Adhesives and Coatings:
1. Apply at following rates in accordance with manufacturer's recommendations:
a. Vapor barrier coatings: 50 sq ft/gal.
b. Vaporseal adhesives: 100 sq ft/gal.
2. Adhesive jackets and facings with wet coat of Foster Foam seal 30-45 adhesive.
3. Lap Sealing: Full width of lap.
4. Surfaces to be adhered: Completely coated with adhesive.
3.02 PROTECTING AND REPLACEMENT
A. Replace damaged insulation that cannot be repaired satisfactorily, including units with vapor barrier damage and moisture saturated units.
B. Protection: Insulation installer shall advise Contractor of required protection for insulation work during remainder of construction period, to avoid damage and deterioration.
END OF SECTION

REVISION SCHEDULE table with columns NO., DESCRIPTION, DATE



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PROJECT: THE LEGACY RENOVATION

665 L STREET CRESCENT CITY, CA 95531

SHEET NAME: PLUMBING SPECIFICATIONS

Table with project details: ISSUE DATE: 03/11/22, PERMIT SET, DRAWN BY: CK, DESIGNER: PROJ MGR, PEER REVIEW: JTMT, SHEET NUMBER:

P0.02

221316 - DRAIN, WASTE AND VENT

221316 - DRAIN, WASTE AND VENT

221316 - DRAIN, WASTE AND VENT

224000 - PLUMBING FIXTURES

4

5

SECTION 22 13 16
DRAIN, WASTE, AND VENT SYSTEMS
PART 1 - GENERAL
1.01 DESCRIPTION
A. Provide complete drain, waste, and vent systems from point of connection to site plumbing to all fixtures, services and termination points.

A. The di-electric nipples shall be electroplated steel nipple complying with ASTM F 1545 with a pressure ratings of 300 psig 225°F. The end connection shall be male threaded. The lining shall be inert and noncorrosive propylene.

A. Changes in direction for soil and waste drainage and vent piping shall be made using appropriate branches, bends and long sweep bends. Sanitary tees and short sweep quarter bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical.

SECTION 22 40 00
PLUMBING FIXTURES
PART 1 - GENERAL
1.01 DESCRIPTION
A. Include all labor, materials, tools, equipment and services required to furnish, deliver and install all work under this Section as required by the Contract Drawings and as specified herein.

1.02 SUBMITTALS
A. Submit in accordance with general conditions and Section 22 00 00.
B. Manufacturer's Literature and Data:
1. Piping.
2. Floor Drains.
3. Grease Removal Unit.
4. Cleanouts.
5. All items listed in PART 2 - PRODUCTS.

C. Cleanouts shall be provided at or near the base of the vertical stacks with the cleanout plug located approximately 24 inches above the floor. If there are no fixtures installed on the lowest floor, the cleanout shall be installed at the base of the stack. The cleanout shall be extended to the wall access cover. Cleanout shall consist of sanitary tees, nickel, bronze square frame and stainless steel cover with minimum opening of 6 by 6 inch(es) shall be furnished at each wall cleanout.

C. Cast iron piping shall be installed according to the latest edition of CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings".
D. Aboveground copper tubing shall be installed according to CDA's "Copper Tube Handbook".
E. Aboveground PVC piping shall be installed according to ASTM D2865. Underground PVC piping shall be installed according to ASTM D2321.

2.01 GENERAL:
A. Vitreous china fixtures shall conform to ANSI A112.192; stainless steel fixtures shall conform to ANSI A112.193; acid resisting enameled cast iron fixtures shall conform to ANSI A112.19.1; fixture supports shall conform to ANSI A117.1.
B. All exposed piping, fittings, traps, escutcheons, valves and accessories shall be polished chrome plated brass construction.

PART 2 - PRODUCTS
2.01 SANITARY WASTE, DRAIN AND VENT PIPING
A. Above and Below Ground: No-hub cast iron soil pipe and fittings manufactured from gray cast iron with a tensile strength of not less than 21,000 psi, bituminous coated interior and exterior, conforming to the requirements of ASTM A888 and CISPI Standard 301.

C. Cleanouts shall be provided at or near the base of the vertical stacks with the cleanout plug located approximately 24 inches above the floor. If there are no fixtures installed on the lowest floor, the cleanout shall be installed at the base of the stack. The cleanout shall be extended to the wall access cover. Cleanout shall consist of sanitary tees, nickel, bronze square frame and stainless steel cover with minimum opening of 6 by 6 inch(es) shall be furnished at each wall cleanout.

3.02 JOINT CONSTRUCTION
A. Hub and spigot, cast iron piping with gasket joints shall be joined in accordance with CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for compression joints.
B. Hub and spigot, cast iron piping with caulked joints shall be joined in accordance with CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for lead and oakum caulked joints.

2.02 STAINLESS STEEL
A. Corrosion-resistant Steel (CRS):
1. Plate, Sheet and Strip: CRS flat products shall conform to chemical composition requirements of any 300 series steel specified in ASTM A276.

1. (Medium Duty) Above Ground: No-Hub couplings shall comply with requirements of Factory Mutual 1680 Class 1, 15 PSI rated pressure. No-Hub couplings shall be constructed of Type 304 stainless steel worm drive screws. The worm drive clamps shall have a hexagon head to accept a 5/16 inch socketed torque wrench.

D. In horizontal runs above grade, cleanouts shall consist of cast brass tapered screw plug in fitting or caulked/hubless cast iron ferrule. Plain end (hubless) piping in interstitial space or above ceiling may use plain end (hubless) blind plug and clamp.

3.03 SPECIALTY PIPE FITTINGS
A. Transition coupling shall be installed at pipe joints with small differences in pipe outside diameters.
B. Dielectric fittings shall be installed at connections of dissimilar metal piping and tubing.

2.03 STOPS
A. Provide lock, shield loose key or screw driver pattern angle stops, straight stops or stops integral with faucet, with each compression type faucet whether specifically called for or not, including sinks in wood and metal casework, laboratory furniture and pharmacy furniture.

2. Below Ground: No-Hub couplings shall comply with requirements of Factory Mutual 1680 Class 1, 15 PSI rated pressure. No-Hub coupling shall be constructed of Type 304 stainless steel (28 gauge) with 305 stainless worm drive screws. The worm drive clamps shall have a hexagon head to accept a 3/8 inch socketed torque wrench.

2.05 ACID WASTE AND VENT PIPING SYSTEM
A. General
1. Acid waste drain and vent system, as shown on drawings, shall be NSF listed and CSA certified Schedule 40, polypropylene as manufactured by IPEX. System to include pipe supplied in 10 ft. lengths (or 20 ft lengths if NRFP is specified), fittings, traps, dilution tanks and/or neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

3.04 PIPE HANGERS, SUPPORTS AND ACCESSORIES
A. All piping shall be supported according to the California Plumbing Code (CPC) and these specifications. Where conflicts arise between the documents and the code, the most restrictive or the requirement that specifies supports with highest loading and shortest spacing shall apply.

2.04 ESCUTCHEONS
A. Heavy type, chrome plated, with set screws. Provide for piping serving plumbing fixtures and at each wall, ceiling and floor penetrations in exposed finished locations and within cabinets and millwork.

C. Refer to geotechnical report for recommendations for corrosion protection. If soil is noted as "corrosive" or "moderately corrosive", all underground cast iron drain piping shall be wrapped in a polyethylene wrapping conforming to AWWA C105-10, ANSI A21.5-10, ASTM D4976 and NT412-10.

2.06 ACID WASTE DILUTION TANK
A. Dilution tank shall be 300 gallons and manufactured from polypropylene with fiberglass reinforcement. Provide 8" access port and standard bolted dome cover.

B. Hangers, supports, rods, inserts and accessories used for pipe supports shall be shop coated with zinc chromate primer paint. Electroplated copper hanger rods, hangers and accessories may be used with copper tubing.

2.05 LAMINAR FLOW CONTROL DEVICE
A. Smooth, bright stainless steel or satin finish, chrome plated metal laminar flow device shall provide non-aeration, clear, coherent laminar flow that will not splash in basin. Device shall also have a flow control restrictor and have vandal resistant housing.

D. Copper Tube, (DWV):
1. Copper DWV tube sanitary waste, drain and vent pipe may be used for piping above ground, except for urinal drains.
2. The copper DWV tube shall be drainage type, drawn temper conforming to ASTM B306.

2.07 PENETRATIONS AT FIRE RATED CONSTRUCTION
A. Through penetrations shall be fire stopped with Hilli brand fire-stop systems/materials selected to suit construction type.

C. Horizontal piping and tubing shall be supported within 12 inches of each fitting or coupling.
D. Horizontal cast iron piping shall be supported with the following maximum horizontal spacing and minimum hanger rod diameters:
1. NPS 1-1/2 inch to NPS 2 inch: 60 inches with 3/8 inch rod.

2.06 CARRIERS
A. ASME/ANSI A112.6.1M, with adjustable gasket faceplate chair carriers for wall hung closets with auxiliary anchor foot assembly, hanger rod support feet, and rear anchor tie down.

3. The copper drainage fittings shall be cast copper or wrought copper conforming to ASME B16.23 or ASME 16.29.
4. The joints shall be lead free, using a water flushable flux, and conforming to ASTM B32.

2.08 TRAPS
A. Traps shall be provided on all sanitary branch waste connections from fixtures or equipment not provided with traps. Exposed brass shall be polished brass chromium plated with nipple and set screw escutcheons. Concealed traps may be rough cast brass or same material as pipe connected to. Slip joints are not permitted on sewer side of trap. Traps shall correspond to fittings on cast iron soil pipe or steel pipe respectively, and size shall be as required by connected service or fixture.

2.09 TRAP SEAL PRIMER VALVES AND TRAP SEAL PRIMER SYSTEMS
A. The inlet and outlet connections shall be NPS 1/2 inch.
B. The trap seal primer valve shall be fully automatic with an all brass or bronze body.

2.07 FIXTURES
A. REFER TO LOCAL CONNECTION SCHEDULE FOR FIXTURE MODEL NUMBERS.

E. Polyvinyl Chloride (PVC)
1. Polyvinyl chloride (PVC) pipe and fittings are permitted where the waste temperature is below 140F.
2. PVC piping and fittings shall NOT be used for the following applications:
a. Waste collected from steam condensate drains.

2.10 WATERPROOFING
A. A sleeve flashing device shall be provided at points where pipes pass through membrane waterproofed floors or walls. The sleeve flashing device shall be manufactured, cast iron fitting with clamping device that forms a sleeve for the pipe floor penetration of the floor membrane. A galvanized steel pipe extension shall be included in the top of the fitting that will extend 2 inches above finished floor and galvanized steel pipe extension in the bottom of the fitting that will extend through the floor slab. A waterproof caulked joint shall be provided at the top hub.

2.06 CARRIERS
B. ASME/ANSI A112.6.1M, lavatory, chair carrier for thin wall construction or steel plate as detailed on drawing. All lavatory chair carriers shall be capable of supporting the lavatory with a 250-pound vertical load applied at the front of the fixture.

2.08 TRAPS
A. Traps shall be provided on all sanitary branch waste connections from fixtures or equipment not provided with traps. Exposed brass shall be polished brass chromium plated with nipple and set screw escutcheons. Concealed traps may be rough cast brass or same material as pipe connected to. Slip joints are not permitted on sewer side of trap. Traps shall correspond to fittings on cast iron soil pipe or steel pipe respectively, and size shall be as required by connected service or fixture.

2.02 EXPOSED WASTE PIPING
A. Full iron pipe size chrome plated brass piping shall be used in finished rooms for exposed waste piping connecting fixtures, casework, cabinets, equipment and reagent racks when not concealed by apron including those furnished by the Owner or specified in other sections.
1. The Fittings shall conform to ANSI B16.15, cast bronze threaded fittings with chrome finish, (125 and 250).

2.10 WATERPROOFING
B. In unfinished Rooms such as mechanical Rooms and Kitchens, Chrome plated brass piping is not required. The pipe materials specified under the paragraph "Sanitary Waste, Drain, and Vent Piping" can be used.

2.07 FIXTURES
B. Locations and elevations of all fixtures shall be as shown on the Architectural Drawings and as required for ADA compliance.

2.09 TRAP SEAL PRIMER VALVES AND TRAP SEAL PRIMER SYSTEMS
C. The trap seal primer valve shall be activated by a drop in building water pressure, no adjustment required.

2.03 SPECIALTY PIPE FITTINGS
A. Transition pipe couplings shall join piping with small differences in outside diameters or different materials. End connections shall be of the same size and compatible with the pipes being joined. The transition coupling shall be elastomeric, sleeve type reducing or transition pattern and include shear and corrosion resistant metal, tension band and tightening mechanism on each end. The transition coupling sleeve coupling shall be of the following material:
1. For cast iron soil pipes, the sleeve material shall be rubber conforming to ASTM C564.

2.09 TRAP SEAL PRIMER VALVES AND TRAP SEAL PRIMER SYSTEMS
D. The trap seal primer valve shall include a manifold when serving two, three, or four traps.

2.07 FIXTURES
C. Each fixture shall be separately controlled with loose key handles or stops except for mop sink faucets which shall have integral stops.

2.10 WATERPROOFING
C. Pipe shall be round and straight. Cutting shall be done with proper tools. Pipe shall be reamed to full size after cutting.

B. The dielectric fittings shall conform to ASSE 1079 with a pressure rating of 125 psig at a minimum temperature of 180°F. The end connection shall be solder joint copper alloy and threaded ferrous.
C. Dielectric flange insulating kits shall be of non-conducting materials for field assembly of companion flanges with a pressure rating of 150 psig. The gasket shall be neoprene or phenolic. The bolt sleeves shall be phenolic or polyethylene. The washers shall be phenolic with steel backing washers.

2.09 TRAP SEAL PRIMER VALVES AND TRAP SEAL PRIMER SYSTEMS
E. The inlet and outlet connections shall be NPS 1/2 inch.

2.07 FIXTURES
D. Force to activate all handicapped accessible fixture controls shall be no greater than 5 lbs.

2.10 WATERPROOFING
D. All pipe runs shall be laid out to avoid interference with other work.

REVISION SCHEDULE table with columns NO., DESCRIPTION, DATE



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THE LEGACY RENOVATION
665 L STREET
CRESCENT CITY, CA 95531

SHEET NAME:
PLUMBING SPECIFICATIONS

ISSUE DATE: 03/11/22
PERMIT SET
DRAWN BY: CK
DESIGNER:
PROJ MGR:
PEER REVIEW: JT/MT
SHEET NUMBER:

P0.03

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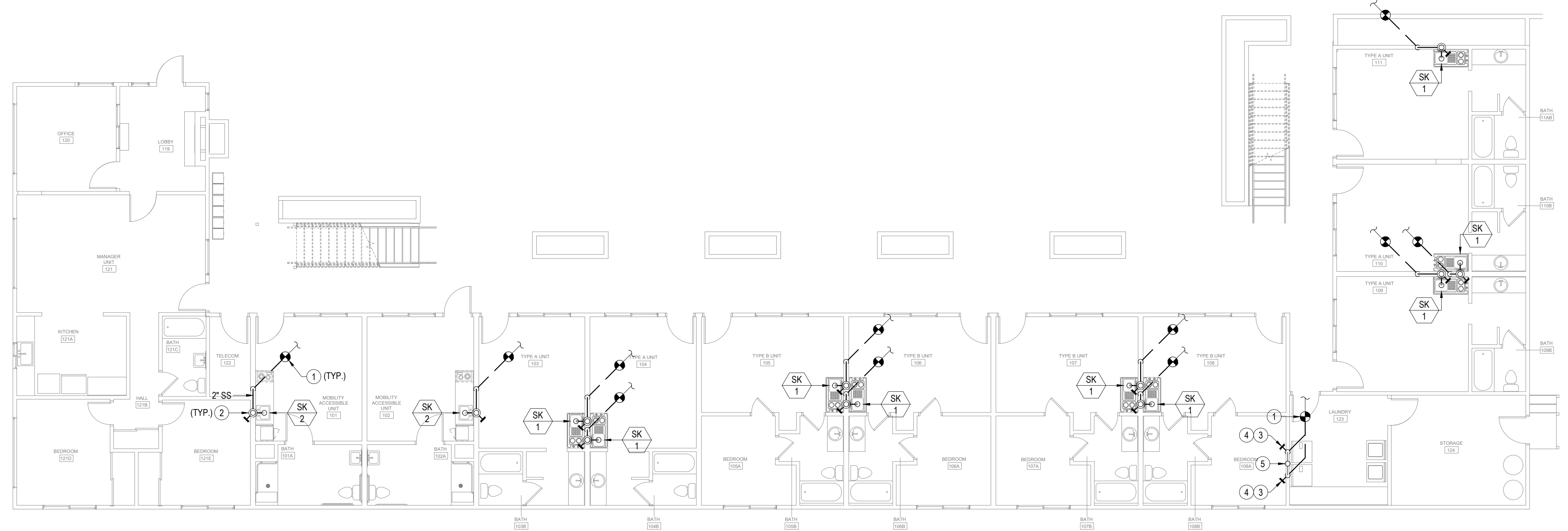
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GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 101 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING SHOWERS/TUBS, WATER CLOSETS, AND LAVATORIES SHALL REMAIN.
- (C) CONFIRM EXISTING LAUNDRY CONNECTIONS, DEMO SS AND VENT LINES. CAP AND SEAL BRANCH LINES WATER-TIGHT.

PLUMBING SHEET NOTES

- 1 SANITARY SEWER LINE P.O.C. FOR ADDED FIXTURE. CONTRACTOR SHALL VERIFY EXACT P.O.C. VERIFY LOCATION, SIZE, AND INVERT ELEVATION IN FIELD PRIOR TO CONSTRUCTION.
- 2 1-1/2" AIR ADMITTANCE VALVE (OATEY SURE-VENT OR EQUAL), INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- 3 WALL CLEANOUT, TYPICAL.
- 4 PROVIDE OATEY UTILITY MIXING BOX (FIRE RATED) WITH 2" S.S.
- 5 2" VENT UP, SEE P1.02 FOR CONTINUATION.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:



CONSULTANT:

15000 inc.
 heating, ventilation, air conditioning • plumbing design and engineering
 6085 STATE FARM DR. #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364

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PROJECT:

THE LEGACY RENOVATION

665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:

**PLUMBING PLAN
 BUILDING 1
 FIRST FLOOR
 DRAIN, WASTE, &
 VENT**

ISSUE DATE:	03/11/22
PERMIT SET	
DRAWN BY:	CK
DESIGNER:	
PROJ MGR:	
PEER REVIEW:	JT/MT
SHEET NUMBER:	

1 PLUMBING PLAN - BUILDING 1 FIRST FLOOR - DRAIN, WASTE AND VENT
 SCALE: 1/8"=1'-0"

P1.01

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GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 201 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING SHOWERS/TUBS, WATER CLOSETS, AND LAVATORIES SHALL REMAIN.

PLUMBING SHEET NOTES

- ① CONNECT TO EXISTING S.S. RISER. VERIFY LOCATION IN FIELD. OFFSET WITHIN WALL AS REQUIRED.
- ② 1-1/2" AIR ADMITTANCE VALVE (OATEY SURE-VENT OR EQUAL), INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- ③ COMBINE S.S. TO SINGLE 1-1/2" S.S. AND ROUTE TO CEILING ASSEMBLY BELOW. OFFSET AS REQUIRED TO CONNECT TO (E) S.S. RISER.
- ④ 2" VENT UP THROUGH ROOF. FLASH AND SEAL WEATHERTIGHT. REFER TO DETAIL 5/P5.01.
- ⑤ WALL CLEANOUT, TYPICAL.
- ⑥ PROVIDE OATEY UTILITY MIXING BOX (FIRE RATED) WITH 2" S.S.
- ⑦ SANITARY SEWER LINE P.O.C. FOR ADDED FIXTURE. CONTRACTOR SHALL VERIFY EXACT P.O.C. VERIFY LOCATION, SIZE, AND INVERT ELEVATION IN FIELD PRIOR TO CONSTRUCTION.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:



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 6085 STATE FARM DR. #130 phone: 707.577.0363
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PROJECT:

THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:

**PLUMBING PLANS
BUILDING 1
SECOND FLOOR
DRAIN, WASTE, &
VENT**

ISSUE DATE: 03/11/22

PERMIT SET

DRAWN BY: CK

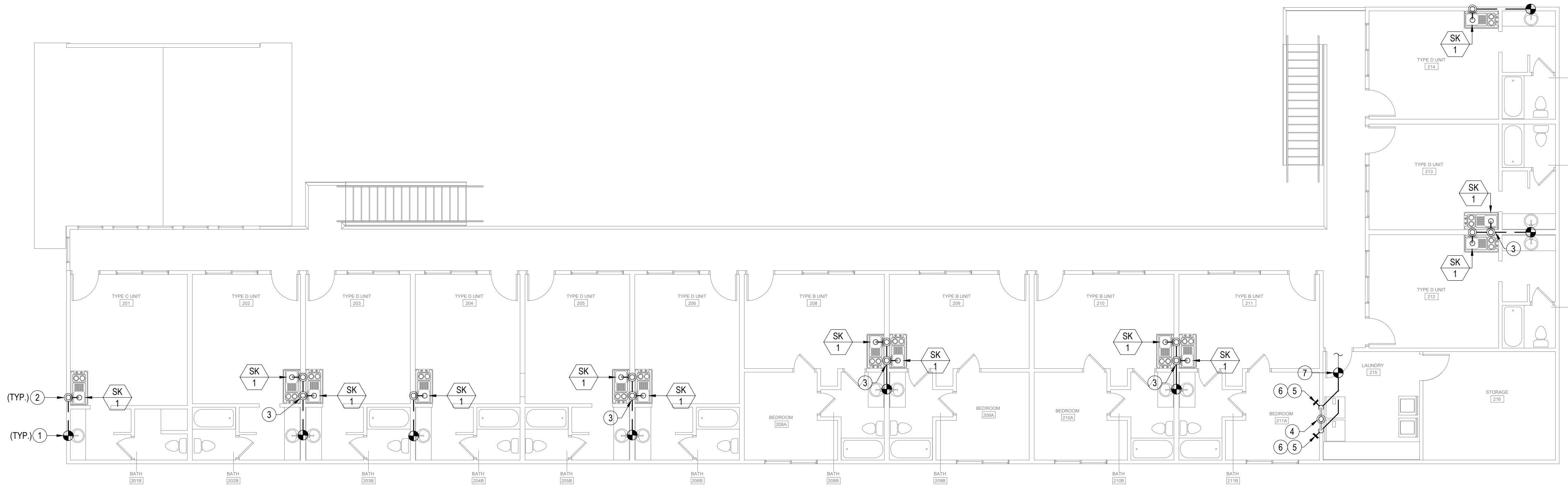
DESIGNER:

PROJ MGR:

PEER REVIEW: JT/MT

SHEET NUMBER:

P1.02



1 PLUMBING PLAN - BUILDING 1 SECOND FLOOR - DRAIN, WASTE, AND VENT

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

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GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 112 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING SHOWERS/TUBS, WATER CLOSETS, AND LAVATORIES SHALL REMAIN.

PLUMBING SHEET NOTES

- ① SANITARY SEWER LINE P.O.C. FOR ADDED FIXTURE. CONTRACTOR SHALL VERIFY EXACT P.O.C. VERIFY LOCATION, SIZE, AND INVERT ELEVATION IN FIELD PRIOR TO CONSTRUCTION.
- ② 1-1/2" AIR ADMITTANCE VALVE (OATEY SURE-VENT OR EQUAL), INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- ③ 2" VENT UP THROUGH ROOF, FLASH AND SEAL WEATHERTIGHT. REFER TO DETAIL 4/P5.01.
- ④ FLOOR CLEANOUT.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:



CONSULTANT:

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 6085 STATE FARM DR. #130 phone: 707.577.0363
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PROJECT:

THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:

**PLUMBING PLANS
BUILDING 2
DRAIN, WASTE, &
VENT**

ISSUE DATE: 03/11/22

PERMIT SET

DRAWN BY: CK

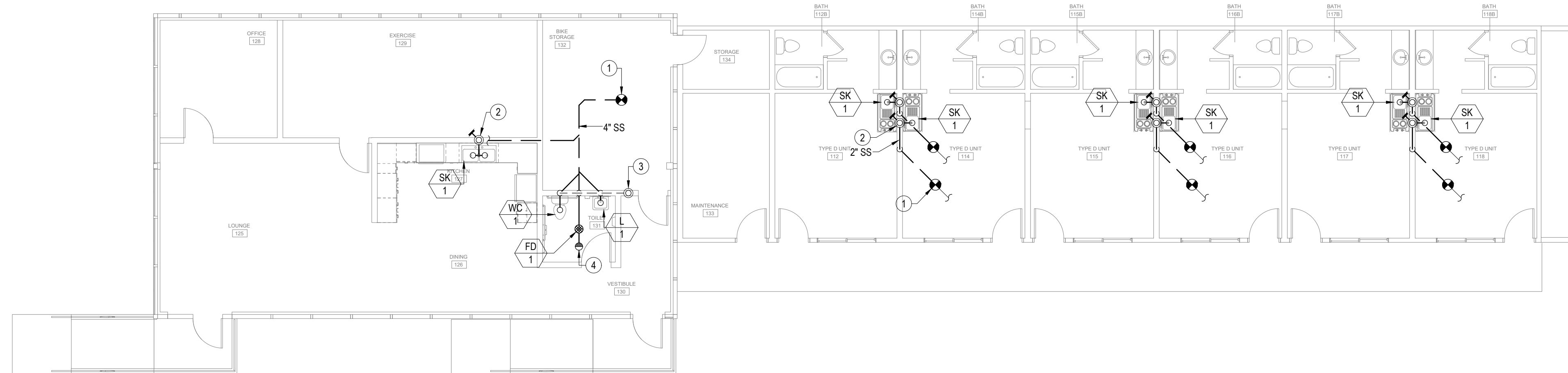
DESIGNER:

PROJ MGR:

PEER REVIEW: JT/MT

SHEET NUMBER:

P1.03



1 PLUMBING PLAN - BUILDING 2 - DRAIN, WASTE, AND VENT

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

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GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 101 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING SHOWERS/TUBS, WATER CLOSETS, AND LAVATORIES SHALL REMAIN.
- (C) CONFIRM EXISTING LAUNDRY CONNECTIONS. DEMO EXISTING DOMESTIC WATER LINES. CAP AND SEAL BRANCH LINES WATER-TIGHT.

PLUMBING SHEET NOTES

- ① 1/2" CW AND HW P.O.C. TO WATER MAINS A.F.C. CONTRACTOR SHALL VERIFY EXACT P.O.C. LOCATIONS IN FIELD AND CONFIRM SIZING PRIOR TO CONSTRUCTION.
- ② 1/2" CW AND HW LINES DOWN TO NEW FIXTURE. PROVIDE WITH 2-WAY ANGLE STOPS AND FLEXIBLE BRAIDED HOSES TO SINK.
- ③ 1/2" CW/HW DOWN IN WALL, OFFSET TO MIXING BOX.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:

15000 inc.
MECHANICAL ENGINEERING
 6085 STATE FARM DR. #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364

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PROJECT:

THE LEGACY RENOVATION

665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:

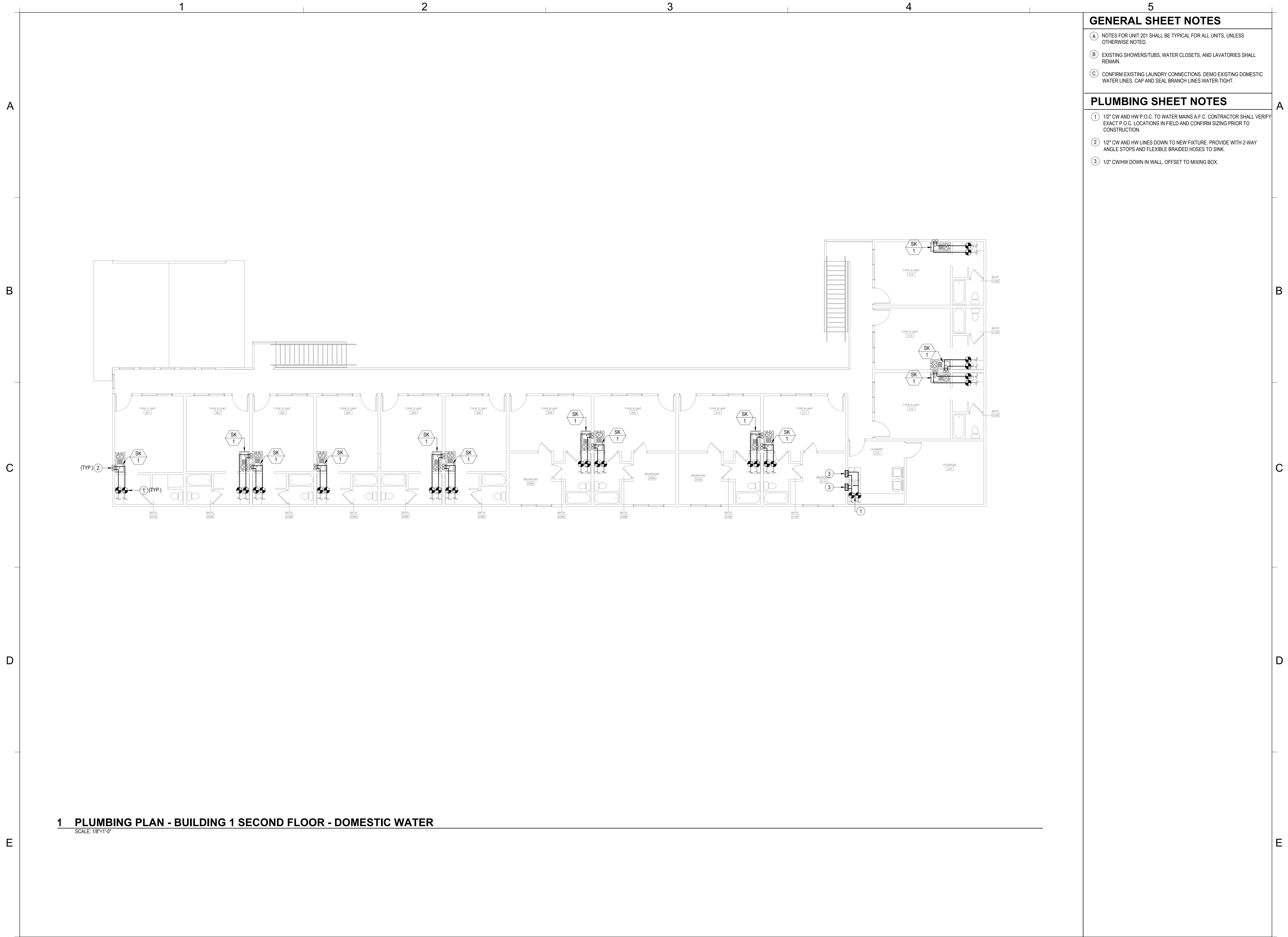
**PLUMBING PLANS
 BUILDING 1
 FIRST FLOOR
 DOMESTIC
 WATER**

ISSUE DATE:	03/11/22
PERMIT SET	
DRAWN BY:	CK
DESIGNER:	
PROJ MGR:	
PEER REVIEW:	JT/MT
SHEET NUMBER:	

P1.04

1 PLUMBING PLAN - BUILDING 1 FIRST FLOOR - DOMESTIC WATER

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



GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 201 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING SHOWERS/TUBS, WATER CLOSETS, AND LAVATORIES SHALL REMAIN.
- (C) CONFIRM EXISTING LAUNDRY CONNECTIONS. DEMO EXISTING DOMESTIC WATER LINES. CAP AND SEAL BRANCH LINES WATER-TIGHT.

PLUMBING SHEET NOTES

- 1 1/2" CW AND HW P.O.C. TO WATER MAINS A.F.C. CONTRACTOR SHALL VERIFY EXACT P.O.C. LOCATIONS IN FIELD AND CONFIRM SIZING PRIOR TO CONSTRUCTION.
- 2 1/2" CW AND HW LINES DOWN TO NEW FIXTURE. PROVIDE WITH 2-WAY ANGLE STOPS AND FLEXIBLE BRAIDED HOSES TO SINK.
- 3 1/2" CWHW DOWN IN WALL, OFFSET TO MIXING BOX.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:

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 6085 STATE FARM DR. #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364

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 ROHNERT PARK, CA 94927
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PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:
**PLUMBING PLANS
 BUILDING 1
 SECOND FLOOR
 DOMESTIC
 WATER**

ISSUE DATE:	03/11/22
PERMIT SET	
DRAWN BY:	CK
DESIGNER:	
PROJ MGR:	
PEER REVIEW:	JT/MT
SHEET NUMBER:	

P1.05

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

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GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 112 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING SHOWERS/TUBS, WATER CLOSETS, AND LAVATORIES SHALL REMAIN.

PLUMBING SHEET NOTES

- ① 1/2" CW AND HW P.O.C. TO WATER MAINS A.F.C. CONTRACTOR SHALL VERIFY EXACT P.O.C. LOCATIONS IN FIELD AND CONFIRM SIZING PRIOR TO CONSTRUCTION.
- ② 1/2" CW AND HW LINES DOWN TO NEW FIXTURE. PROVIDE WITH 2-WAY ANGLE STOPS AND FLEXIBLE BRAIDED HOSES TO SINK.
- ③ 1/2" CW/HW DOWN TO FIXTURE. OFFSET TO MAKE FINAL CONNECTIONS.
- ④ 3/4" CW DOWN TO FIXTURE. OFFSET TO MAKE FINAL CONNECTION.
- ⑤ 3/4" CW TO WATER MAINS A.F.C. CONTRACTOR SHALL VERIFY EXACT P.O.C. LOCATIONS IN FIELD AND CONFIRM SIZING PRIOR TO CONSTRUCTION.
- ⑥ 1/2" CW DROP TO BALL TYPE S.O.V. AND TRAP PRIMER ASSEMBLY WITH 4-PORT DISTRIBUTION UNIT. PROVIDE WITH PLUG SCREWS AT UNUSED PORTS.
- ⑦ 1/2" TRAP PRIMER PIPE. ROUTE ONE CONTINUOUS PIECE OF PEX PIPING WITHIN SCHEDULE 80 PVC SLEEVE FROM TRAP PRIMER OUTLET TO CONNECTION AT FLOOR DRAIN.
- ⑧ MOUNT WATER HEATER UNDER SINK AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL 2/PS 01 FOR ADDITIONAL INFORMATION.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

heating, ventilation, air conditioning • plumbing design and engineering
 6085 STATE FARM DR. #130 phone: 707.577.0363
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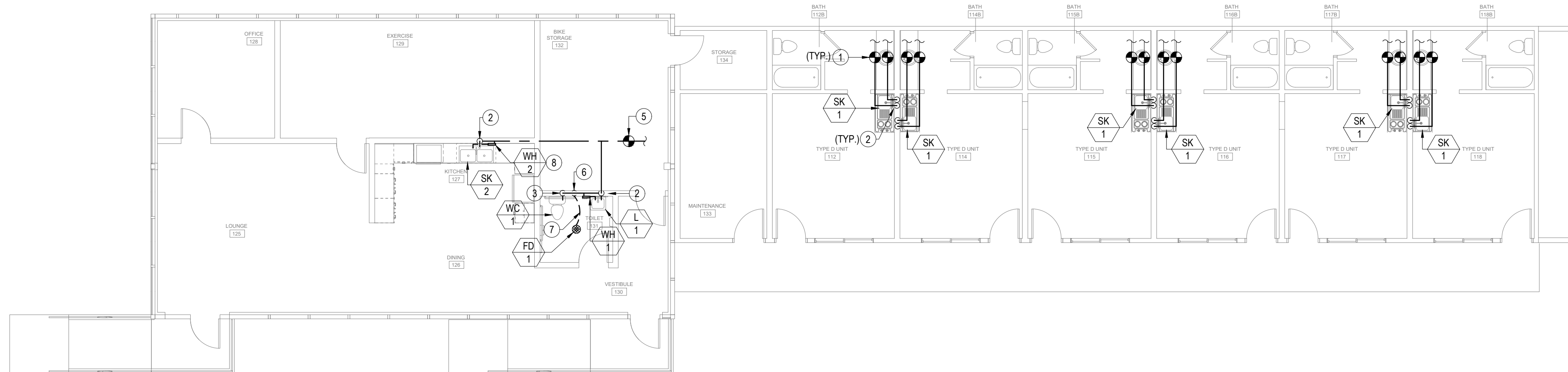
PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:
**PLUMBING PLANS
 BUILDING 2
 DOMESTIC
 WATER**

ISSUE DATE:	03/11/22
PERMIT SET	
DRAWN BY:	CK
DESIGNER:	
PROJ MGR:	
PEER REVIEW:	JT/MT
SHEET NUMBER:	

P1.06



1 PLUMBING PLAN - BUILDING 2 - DOMESTIC WATER

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

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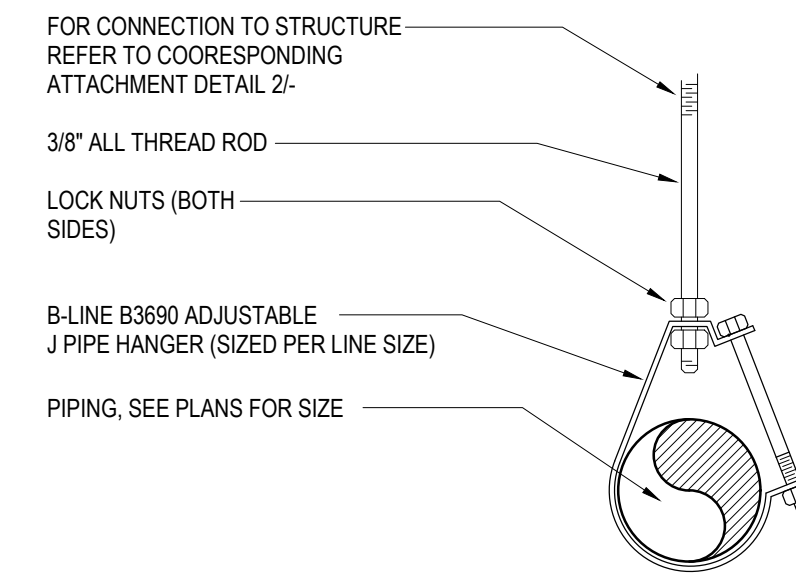
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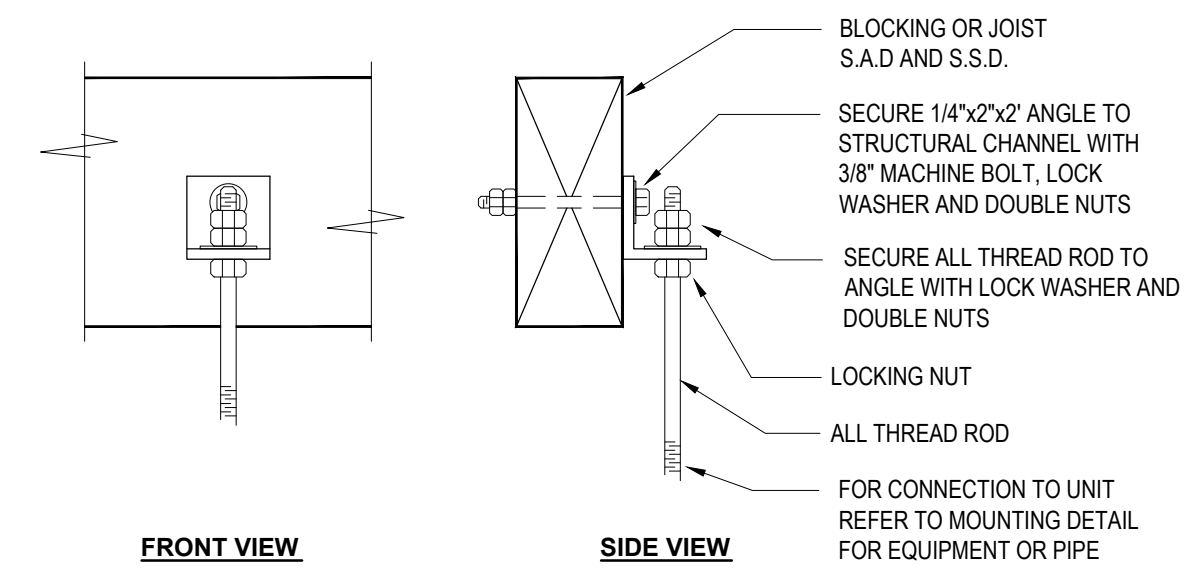
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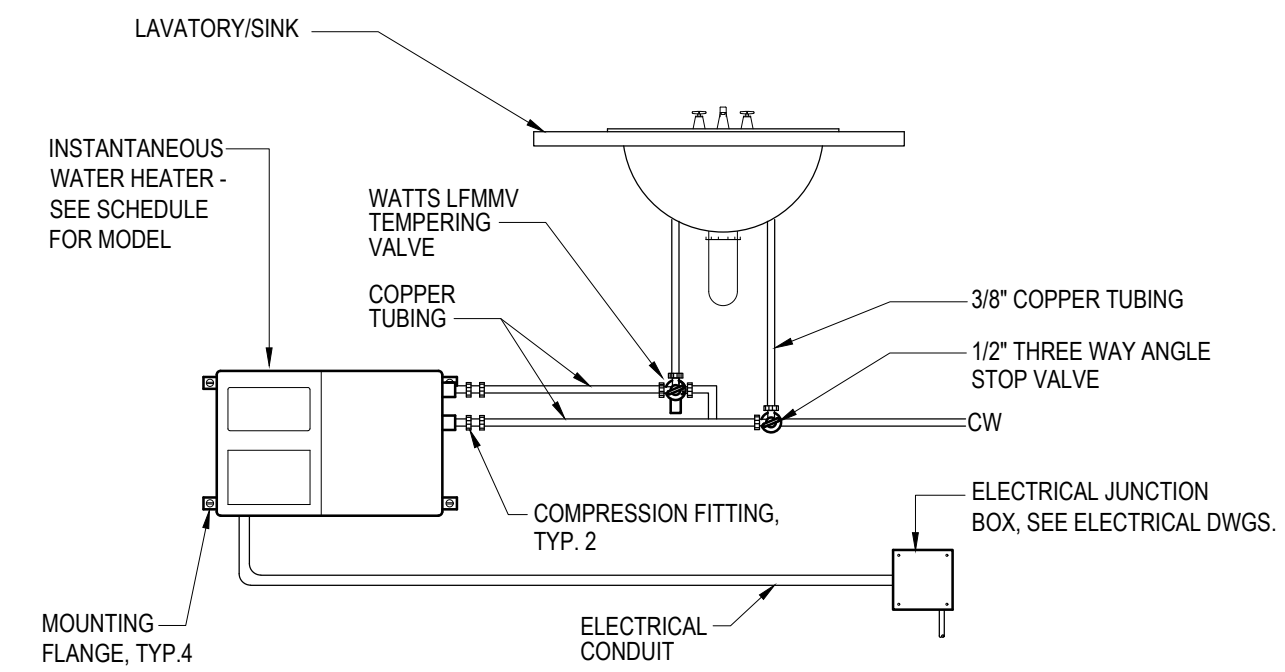
1 PIPE HANGING DETAIL

SCALE: NONE



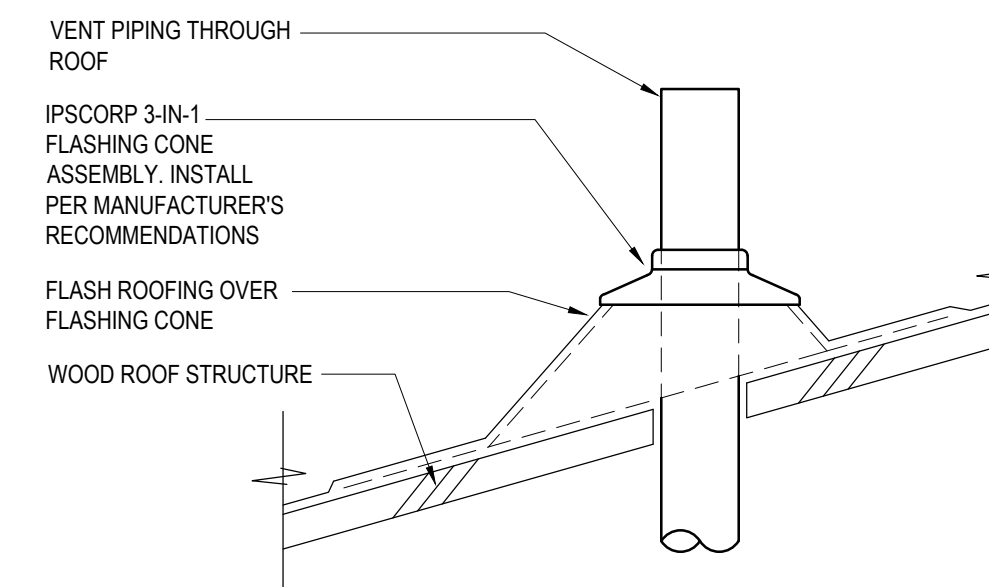
2 ROD ATTACHMENT TO WOOD STRUCTURE FRAMING

SCALE: NONE



3 INSTANTANEOUS WATER HEATER DETAIL

SCALE: NONE



4 VENT THROUGH ROOF

SCALE: NONE

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

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 heating, ventilation, air conditioning • plumbing design and engineering
 6085 STATE FARM DR. #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364

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PROJECT:

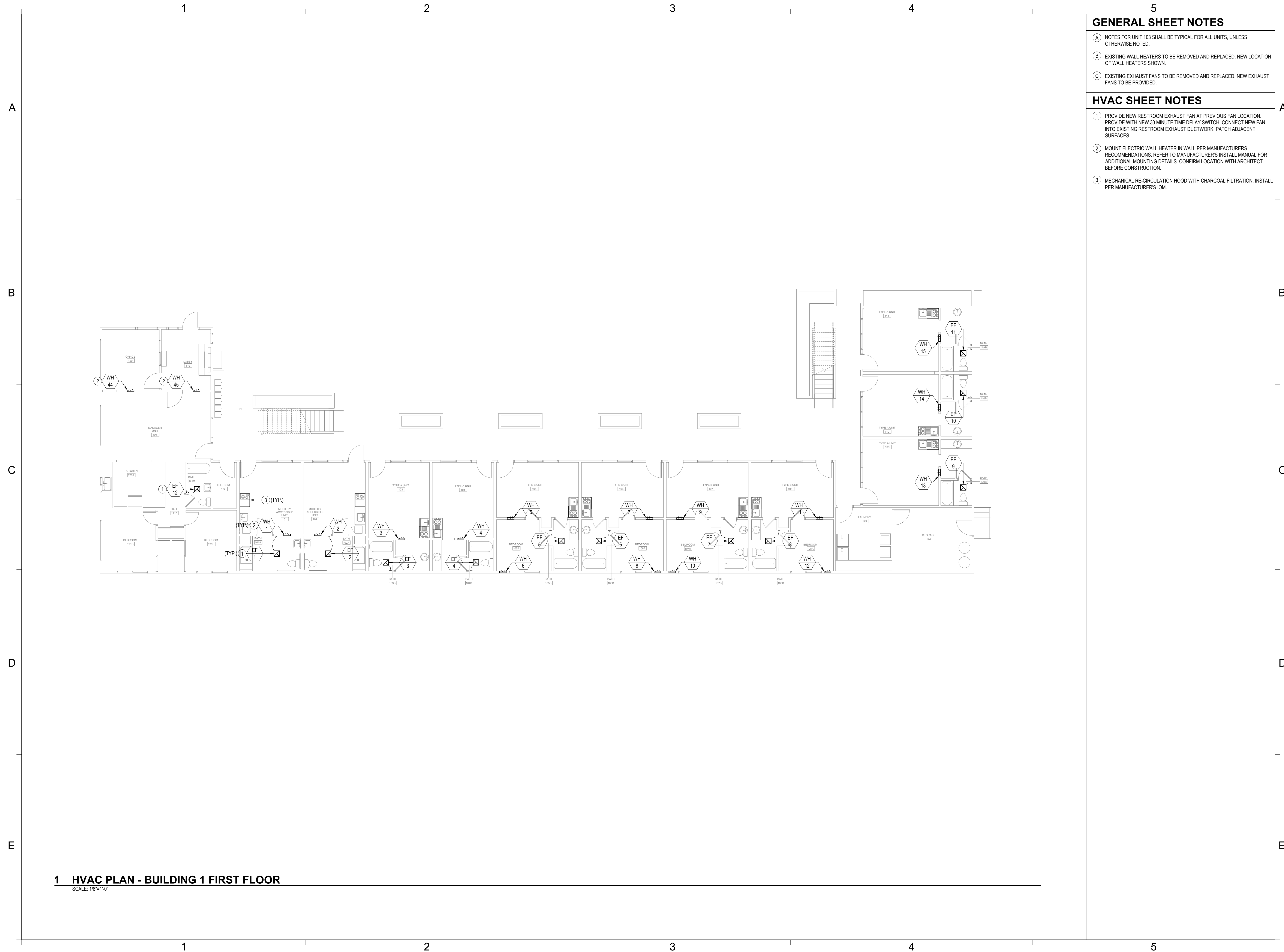
THE LEGACY RENOVATION

665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:
PLUMBING DETAILS

ISSUE DATE:	03/11/22
PERMIT SET	
DRAWN BY:	CK
DESIGNER:	
PROJ MGR:	
PEER REVIEW:	JT/MT
SHEET NUMBER:	

P5.01



GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 103 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING WALL HEATERS TO BE REMOVED AND REPLACED. NEW LOCATION OF WALL HEATERS SHOWN.
- (C) EXISTING EXHAUST FANS TO BE REMOVED AND REPLACED. NEW EXHAUST FANS TO BE PROVIDED.

HVAC SHEET NOTES

- (1) PROVIDE NEW RESTROOM EXHAUST FAN AT PREVIOUS FAN LOCATION. PROVIDE WITH NEW 30 MINUTE TIME DELAY SWITCH. CONNECT NEW FAN INTO EXISTING RESTROOM EXHAUST DUCTWORK. PATCH ADJACENT SURFACES.
- (2) MOUNT ELECTRIC WALL HEATER IN WALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MANUFACTURER'S INSTALL MANUAL FOR ADDITIONAL MOUNTING DETAILS. CONFIRM LOCATION WITH ARCHITECT BEFORE CONSTRUCTION.
- (3) MECHANICAL RE-CIRCULATION HOOD WITH CHARCOAL FILTRATION. INSTALL PER MANUFACTURER'S IOM.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



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heating, ventilation, air conditioning • plumbing design and engineering
 6085 STATE FARM DR. #130 phone: 707.577.0363
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PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:
**HVAC PLAN
 BUILDING 1
 FIRST FLOOR**

ISSUE DATE: 03/11/22
 PERMIT SET
 DRAWN BY: CK
 DESIGNER:
 PROJ. MGR:
 PEER REVIEW: JT/MT
 SHEET NUMBER:

M1.01

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GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 101 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING WALL HEATERS TO BE REMOVED AND REPLACED. NEW LOCATION OF WALL HEATERS SHOWN.
- (C) EXISTING EXHAUST FANS TO BE REMOVED AND REPLACED. NEW EXHAUST FANS TO BE PROVIDED.

HVAC SHEET NOTES

- ① PROVIDE NEW RESTROOM EXHAUST FAN AT PREVIOUS FAN LOCATION. PROVIDE WITH NEW 30 MINUTE TIME DELAY SWITCH. CONNECT NEW FAN INTO EXISTING RESTROOM EXHAUST DUCTWORK. PATCH ADJACENT SURFACES.
- ② MOUNT ELECTRIC WALL HEATER IN WALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO MANUFACTURER'S INSTALL MANUAL FOR ADDITIONAL MOUNTING DETAILS. CONFIRM LOCATION WITH ARCHITECT BEFORE CONSTRUCTION.
- ③ MECHANICAL RE-CIRCULATION HOOD WITH CHARCOAL FILTRATION. INSTALL PER MANUFACTURER'S IOM.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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PROJECT:

THE LEGACY RENOVATION

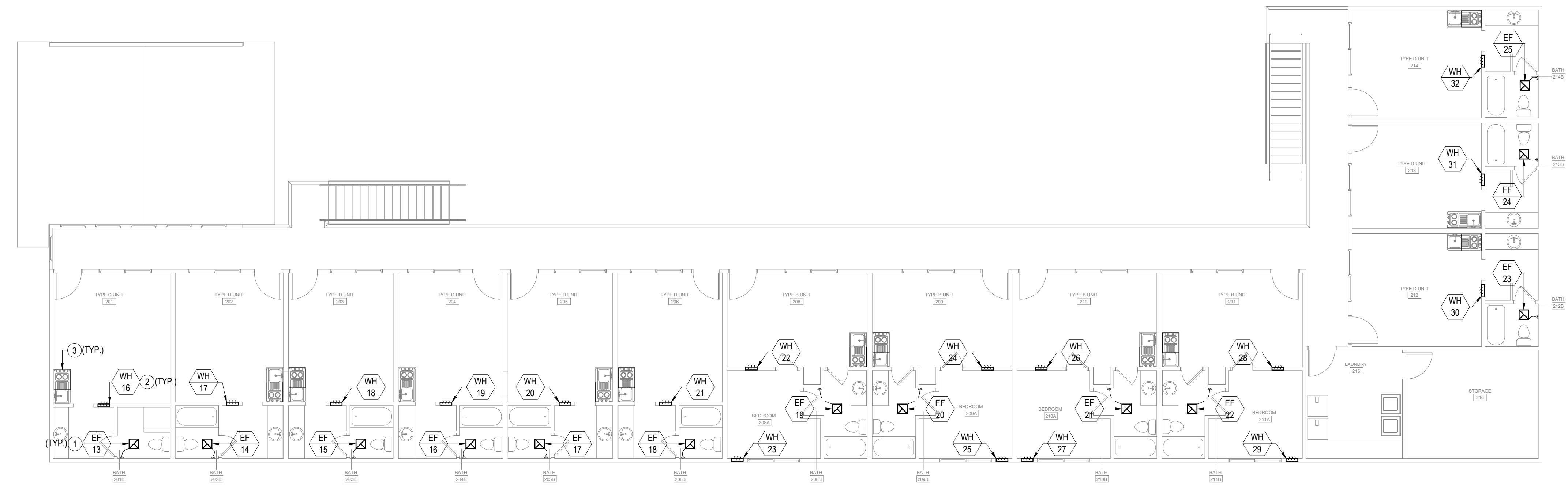
665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:

**HVAC PLAN
 BUILDING 1
 SECOND FLOOR**

ISSUE DATE:	03/11/22
PERMIT SET	
DRAWN BY:	CK
DESIGNER:	
PROJ MGR:	
PEER REVIEW:	JT/MT
SHEET NUMBER:	

M1.02



1 HVAC PLAN - BUILDING 1 SECOND FLOOR
 SCALE: 1/8"=1'-0"

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GENERAL SHEET NOTES

- (A) NOTES FOR UNIT 112 SHALL BE TYPICAL FOR ALL UNITS, UNLESS OTHERWISE NOTED.
- (B) EXISTING WALL HEATERS TO BE REMOVED AND REPLACED. NEW LOCATION OF WALL HEATERS SHOWN.
- (C) EXISTING EXHAUST FANS TO BE REMOVED AND REPLACED. NEW EXHAUST FANS TO BE PROVIDED.

HVAC SHEET NOTES

- (1) PROVIDE NEW RESTROOM EXHAUST FAN AT PREVIOUS FAN LOCATION. PROVIDE WITH NEW 30 MINUTE TIME DELAY SWITCH. CONNECT NEW FAN INTO EXISTING RESTROOM EXHAUST DUCTWORK.
- (2) MOUNT ELECTRIC WALL HEATER IN WALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO MANUFACTURER'S INSTALL MANUAL FOR ADDITIONAL MOUNTING DETAILS. CONFIRM LOCATION WITH ARCHITECT BEFORE CONSTRUCTION.
- (3) MECHANICAL RE-CIRCULATION HOOD WITH CHARCOAL FILTRATION. INSTALL PER MANUFACTURER'S IOM.
- (4) ROUTE KITCHEN EXHAUST DUCT UP THROUGH ROOF TO GREENHECK GRS-6 GRAVITY VENTILATOR. FLASH AND SEAL WEATHERTIGHT.
- (5) S.A.D. FOR KITCHEN EXHAUST HOOD. ADAPT AND TRANSITION AS REQUIRED.
- (6) PROVIDE ROOF EXHAUST FAN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MANUFACTURER'S INSTALL MANUAL FOR ADDITIONAL MOUNTING DETAILS. CONFIRM LOCATION WITH ARCHITECT BEFORE CONSTRUCTION.
- (7) 6"Ø EXHAUST AIR DUCT UP THROUGH ROOF TO A GREENHECK GRAVITY RELIEF VENTILATOR (GRSR-8 OR APPROVED), FLASH AND SEAL WEATHERTIGHT.
- (8) TRANSITION EXHAUST AIR DOWN TO 24" X 24" TITUS 50FF EXHAUST GRILLE AT CEILING/ROOF.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:

15000 inc.
 heating, ventilation, air conditioning • plumbing design and engineering
 6085 STATE FARM DR. #130 phone: 707.577.0363
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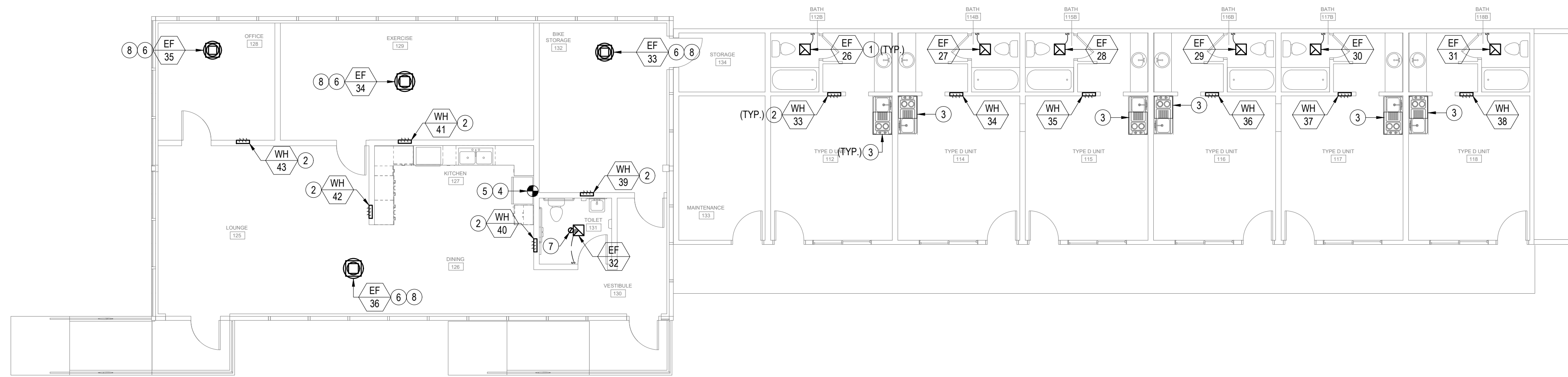
PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA
 95531

SHEET NAME:
HVAC PLAN BUILDING 2

 ISSUE DATE: 03/11/22
 PERMIT SET
 DRAWN BY: CK
 DESIGNER:
 PROJ MGR:
 PEER REVIEW: JT/MT
 SHEET NUMBER:

M1.03



1 HVAC PLAN - BUILDING 2
SCALE: 1/8"=1'-0"

ANCHORAGE & BRACING NOTES

M/E/P Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents...

- 1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached...
3. Temporary, movable or mobile equipment which is heavier than 400 pounds...

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above...

- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor...
B. Components weighing less than 20 pounds, or in the case of distributed systems...

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer...

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3...

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide...

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP MD PP E - Option 1: Detailed on the approved drawings with project specific notes and details.

MP MD PP E - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) # _____.

APPLICABLE CODES & STANDARDS REFERENCES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*

2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1, 2, and 2019 California amendments)

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended).....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

ELECTRICAL DEVICES

- JUNCTION BOX - WALL MOUNTED +18" A.F.F. U.O.N.
JUNCTION BOX - FLOOR MOUNTED
JUNCTION BOX - CEILING MOUNTED
POWER OUTLET, DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
POWER OUTLET, DEDICATED DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.

NOTE: ALL 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING-TYPE RECEPTACLES IN PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES SHALL BE TAMPER-RESISTANT TYPE.

CONTROLS

- SWITCH, SINGLE CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
SWITCH, 3-WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
SWITCH, 4-WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
SWITCH, MOTOR RATED - NOTED MOUNTING

LOW VOLTAGE

- CEILING SPEAKER
WALL MOUNTED SPEAKER- +96" A.F.F. U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING

- SPEAKER/ CLOCK - +96" A.F.F. U.O.N., 1" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING

- DATA OUTLET - WALL MOUNTED +18" A.F.F.
DATA OUTLET - NOTED MOUNTED

- DATA OUTLET FOR EXTERIOR WIRELESS ACCESS POINT, +10'-0" A.F.F.

- VOICE/DATA OUTLET - WALL MOUNTED +18" A.F.F.

- VOICE/DATA OUTLET - NOTED MOUNTING

- VOICE OUTLET - WALL MOUNTED +18" A.F.F.

- VOICE OUTLET - +48" A.F.F. TO CENTER WITH PHONE MOUNT KEYSTONE WALL PLATE, SINGLE GANG, 1-PORT STAINLESS STEEL

- DATA OUTLET - FLOOR MOUNTED

- VOICE OUTLET - FLOOR MOUNTED

- VOICE/DATA OUTLET - FLOOR MOUNTED

- DATA OUTLET - CEILING MOUNTED

- DATA OUTLET - CEILING MOUNTED FOR WIRELESS ACCESS POINT.

- TV OUTLET, WALL MOUNTED +18" A.F.F., U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING

- 4-GANG IN-WALL AV CONNECTION ENCLOSURE (HUBBELL #NSAV124M) WITH (1) RECEPTACLE POWER KIT MOUNTED AT +60" AT FLAT PANEL LOCATION. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE

- SECURITY MOTION SENSOR: +84" AFF TO TOP OF SINGLE GANG BOX, 3/4" CONDUIT STUBBED TO ACCESSIBLE SPACE ABOVE CEILING

- INTRUSION ALARM KEYPAD: +44" TO TOP OF SINGLE GANG BOX, 3/4" CONDUIT STUBBED TO ACCESSIBLE SPACE ABOVE CEILING

- SINGLE GANG BOX FOR SECURITY CAMERA: 3/4" CONDUIT TO ACCESSIBLE SPACE ABOVE CEILING. MOUNT HIGH ON WALL. VERIFY BOX LOCATIONS AND HEIGHTS WITH DISTRICT PRIOR TO ROUGH-IN

- SECURITY DOOR CONTACT: 12" CONDUIT FROM DOOR FRAME STUBBED TO ACCESSIBLE SPACE ABOVE CEILING

- SECURITY DOOR CONTACT: 12" CONDUIT FROM DOOR FRAME STUBBED TO ACCESSIBLE SPACE ABOVE CEILING

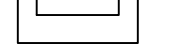
CIRCUITING

- CIRCUIT - CONCEALED
CIRCUIT - EXPOSED
CIRCUIT - UNDER FLOOR, GROUND OR SLAB
CIRCUIT - HOME RUN
CIRCUIT - STUB OUT
CIRCUIT - STUB DOWN
CIRCUIT - STUB UP
CIRCUIT - COMPLETE CONNECTION

EQUIPMENT

- DISCONNECT, NON-FUSED
DISCONNECT, WITH FUSE
STARTER, NON-FUSED
STARTER, WITH FUSE
DIVISION 15 FAN
STARTER, WITH CIRCUIT BREAKER
PANELBOARD FLUSH
PANELBOARD SURFACE
ENCLOSURE FLUSH
ENCLOSURE SURFACE
DISTRIBUTION BOARD
METER SECTION
MOTOR
MTTB
SITE PULL BOX / VAULT

TRANSFORMER



LIGHT FIXTURES

- LIGHT FIXTURE, 1 x 4 - PENDANT MOUNTED
LIGHT FIXTURE, 1 x 8 - PENDANT MOUNTED
LIGHT FIXTURE, 1 x 4 - RECESSED MOUNTED
LIGHT FIXTURE, 1 x 8 - RECESSED MOUNTED
LIGHT FIXTURE, 1 x 4 - SURFACE MOUNTED
LIGHT FIXTURE, 1 x 8 - SURFACE MOUNTED
LIGHT FIXTURE, 2 x 2 - RECESSED MOUNTED
LIGHT FIXTURE, 2 x 4 - RECESSED MOUNTED
LIGHT FIXTURE, 2 x 2 - SURFACE MOUNTED
LIGHT FIXTURE, 2 x 4 - SURFACE MOUNTED
LIGHT FIXTURE, 4' STRIP - SURFACE MOUNTED
LIGHT FIXTURE, 8' STRIP - SURFACE MOUNTED
LIGHT FIXTURE, EXIT WITH EGRESS - WALL/CEILING MOUNTED
LIGHT FIXTURE, EGRESS - WALL MOUNTED
LIGHT FIXTURE, EXIT DOUBLE FACE - CEILING MOUNTED
LIGHT FIXTURE, EXIT DOUBLE FACE - WALL MOUNTED
LIGHT FIXTURE, EXIT SINGLE FACE - CEILING MOUNTED
LIGHT FIXTURE, EXIT SINGLE FACE - WALL MOUNTED
LIGHT FIXTURE - PENDANT MOUNTED
LIGHT FIXTURE - RECESSED MOUNTED
LIGHT FIXTURE, WALL WASH - RECESSED MOUNTED
LIGHT FIXTURE - SURFACE MOUNTED
LIGHT FIXTURE - WALL MOUNTED
LIGHT FIXTURE - POLE MOUNTED
LIGHT FIXTURE, NO ARM - POLE MOUNTED OR BOLLARD

ADA REQUIREMENTS

- A. ALL HEIGHTS CALLED OUT ON PLANS ARE TO CENTERLINE OF DEVICE, U.O.N.
B. FOLLOW ALL ADA REQUIREMENTS FOR DEVICE MOUNTING:
MAX UNOBSTRUCTED FORWARD REACH 48-INCHES TO TOP OF DEVICE
MIN UNOBSTRUCTED FORWARD REACH 15-INCHES TO BOTTOM OF DEVICE
MAX OBSTRUCTED FORWARD REACH 44-INCHES TO TOP OF DEVICE
MAX OBSTRUCTED SIDE REACH 46-INCHES TO TOP OF DEVICE

DIAGRAMS

- ATS
PANEL
CIRCUIT BREAKER
FUSE
UTILITY FUSE
GROUND ROD
METER
METER CT
TRANSFORMER

MISCELLANEOUS

- DEMO KEYED NOTE TAG
ELECTRICAL EQUIPMENT TAG
KEYED NOTE TAG
MECHANICAL EQUIPMENT TAG
REVISION DELTA
EQUIPMENT MANUFACTURER'S IDENTIFICATION NUMBER
DETAIL REFERENCE
DETAIL REFERENCE
PLAN NORTH ARROW

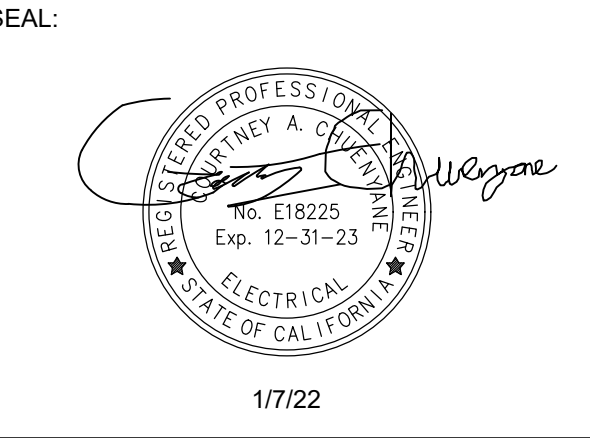
ABBREVIATIONS

Table listing abbreviations for electrical components such as AMPERES, ALTERNATING CURRENT, ABOVE FINISHED FLOOR, etc.

ELECTRICAL SHEET INDEX

Table with columns: NO., DESCRIPTION, DATE. Lists sheets E-001 to E-801 including Electrical Legend and Abbreviations, Electrical Site Plan, Demolition Plan, etc.

REVISION SCHEDULE table with columns: NO., DESCRIPTION, DATE



CONSULTANT:

BrokawDesign
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ROHNERT PARK, CA 94927
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PROJECT:
THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA.
95531

SHEET NAME:
ELECTRICAL LEGEND AND ABBREVIATIONS

Table for drawing metadata: ISSUE DATE: 1/7/22, PREPARATION AND REVIEW, DRAWN BY: MOB, DESIGNER: MOB, PROJ MGR, PEER REVIEW: CAC, SHEET NUMBER:

E001

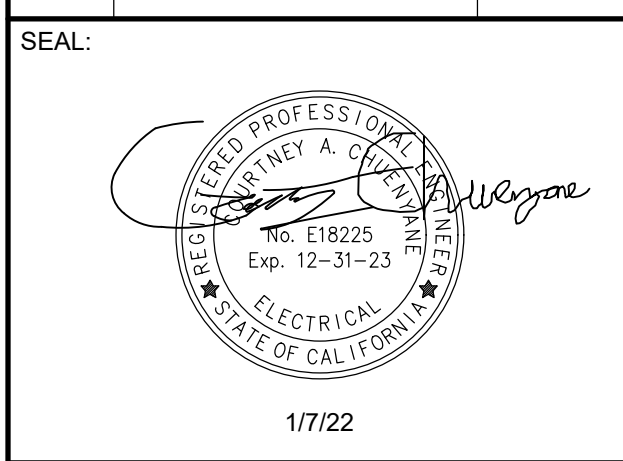
KEYED NOTES - SITE (X)

- (E) MAIN SERVICE PANEL AND METER - COORDINATE POWER OUTAGES WITH PG&E FOR REPLACEMENT OF (E) SERVICE RISER AND WEATHERHEAD. PROVIDE NEW WEATHERHEAD PER PG&E REQUIREMENTS. SEE E601 FOR SINGLE LINE DIAGRAM.
- BRANCH SERVICE PANELS. SEE SINGLE LINE DIAGRAM E601.

SHEET NOTES - SITE ELECTRICAL

- LOCATION OF INDICATED (E) U/G UTILITIES IS DIAGRAMMATIC. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND LOCATE NEW EQUIPMENT TO SUIT THE PROJECT CONDITIONS.
- PROJECT INFORMATION HAS BEEN SENT TO THE UTILITY COMPANIES FOR THEIR ENGINEERING. COORDINATE EXACT SERVICE REQUIREMENTS WITH THE FOLLOWING:
 - ELECTRICAL SERVICE: _____
 - TELEPHONE SERVICE: _____
 - CABLE TELEVISION: _____
- COORDINATE ALL REQUIRED INSPECTIONS WITH THE UTILITY COMPANIES PRIOR TO UTILITY COMPANY TRENCH(S) BACKFILLING.
- PROVIDE ALL NECESSARY SAW CUTTING AND REPAIR TO (E) FINISHED SURFACES REQUIRED TO PROVIDE ELECTRICAL AND TELEPHONE UTILITIES.
- COORDINATE ALL REQUIRED WORK AND LOCATIONS OF SERVICE REQUIREMENTS WITH THE UTILITY COMPANIES PRIOR TO BEGINNING ANY EXCAVATION.
- THE CONTRACTOR SHALL PROVIDE SCALE SHOP DRAWINGS FOR ALL SITE REQUIRED PULL BOX LOCATIONS. SHOP DRAWING SHALL INDICATE PULL BOX ORIENTATION, NOMENCLATURE, SIZE AND TRAFFIC RATING WHEN APPLICABLE.
- MINIMUM SIZE OF UNDERGROUND CONDUIT SHALL BE 1".
- TYPICAL 11X17 FLUSH-WITH-GRADE CONCRETE PULLBOX WITH BOLT-ON LID. PROVIDE TRAFFIC RATED WHERE IN VEHICULAR AREAS.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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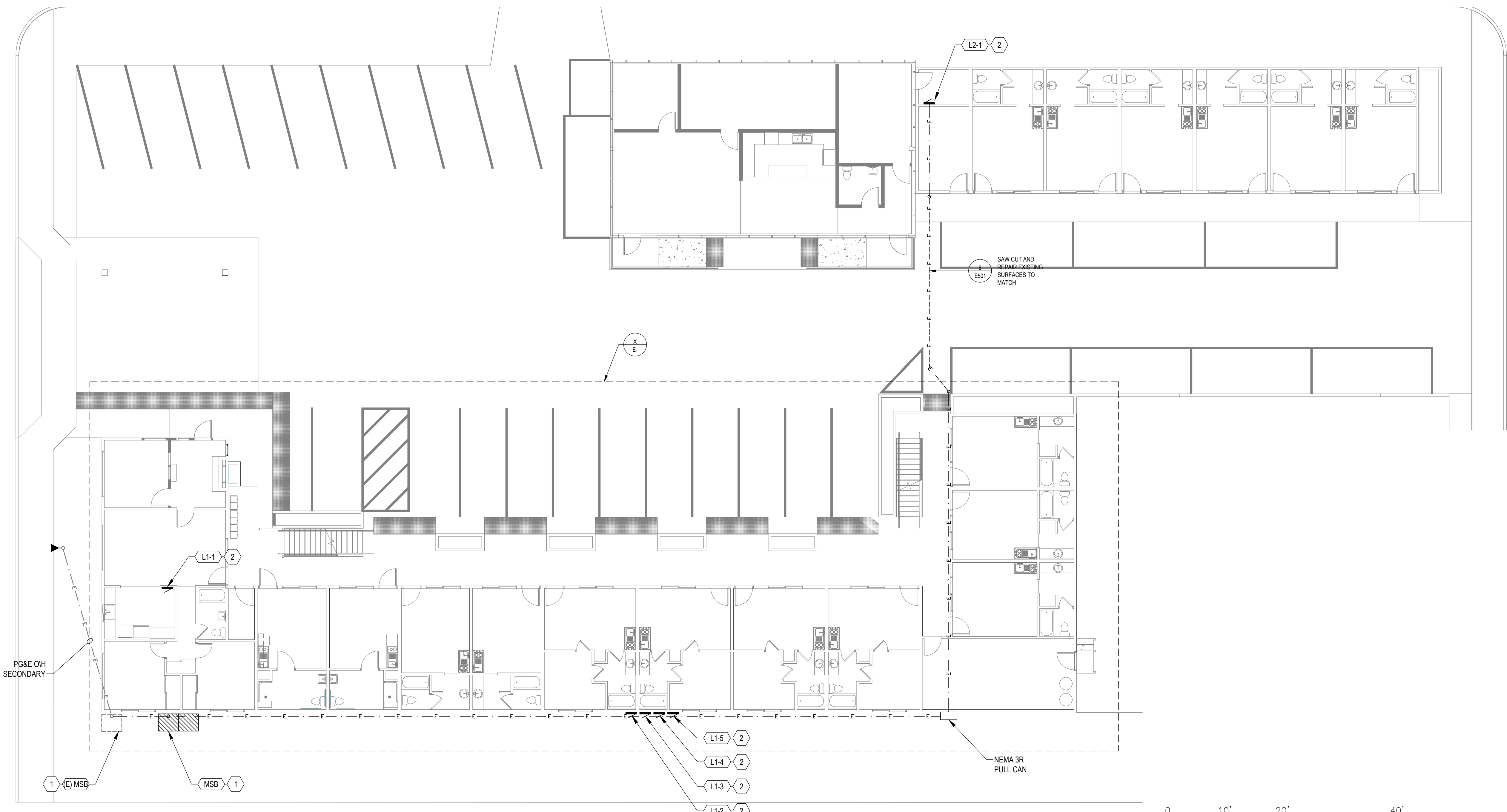
PROJECT:
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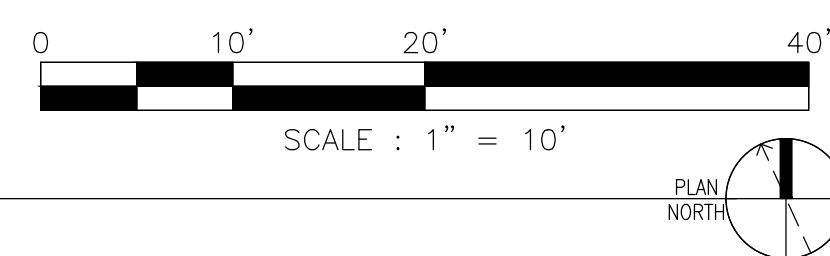
SHEET NAME:
SITE ELECTRICAL PLAN

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

E101



1 ELECTRICAL SITE PLAN
 SCALE: 1" = 10'



1

2

3

4

5

A

B

C

D

E

A

B

C

D

E

SHEET NOTES - DEMOLITION

- A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING AVAILABLE RECORD DOCUMENTS.
- B. REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.
- C. DISCONNECT, REMOVE AND/OR EXTEND ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- D. RECONNECT EQUIPMENT BEING DISTURBED BY RENOVATION WORK AND REQUIRED FOR CONTINUE SERVICE TO NEAREST AVAILABLE PANEL.
- E. DISCONNECT OR SHUT OFF SERVICE TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ELECTRICAL FIXTURES, EQUIPMENT, AND RELATED SWITCHES, OUTLETS, CONDUIT AND WIRING WHICH ARE NOT PART OF FINAL PROJECT.
- F. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- G. DO NOT PERFORM WORK ON ENERGIZED EQUIPMENT OR CIRCUITS.
- H. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- I. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- J. REMOVE EXPOSED ABANDONED GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILING FINISHES. CUT EMBEDDED SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS.
- K. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN OR TO BE REINSTALLED.
- L. PROTECT AND RETAIN POWER TO EXISTING ACTIVE EQUIPMENT REMAINING.
- M. CAP ABANDONED EMPTY CONDUIT AT BOTH ENDS.
- N. SEAL ANY PENETRATIONS IN FIRE RATED WALLS.
- O. PATCH, REPAIR AND RE-FINISH (E) SURFACES DAMAGED DUE TO DEMOLITION.
- P. ALL (E) TELECOM AND CCTV SYSTEM SHALL REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:

1/7/22

CONSULTANT:

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PROJECT:

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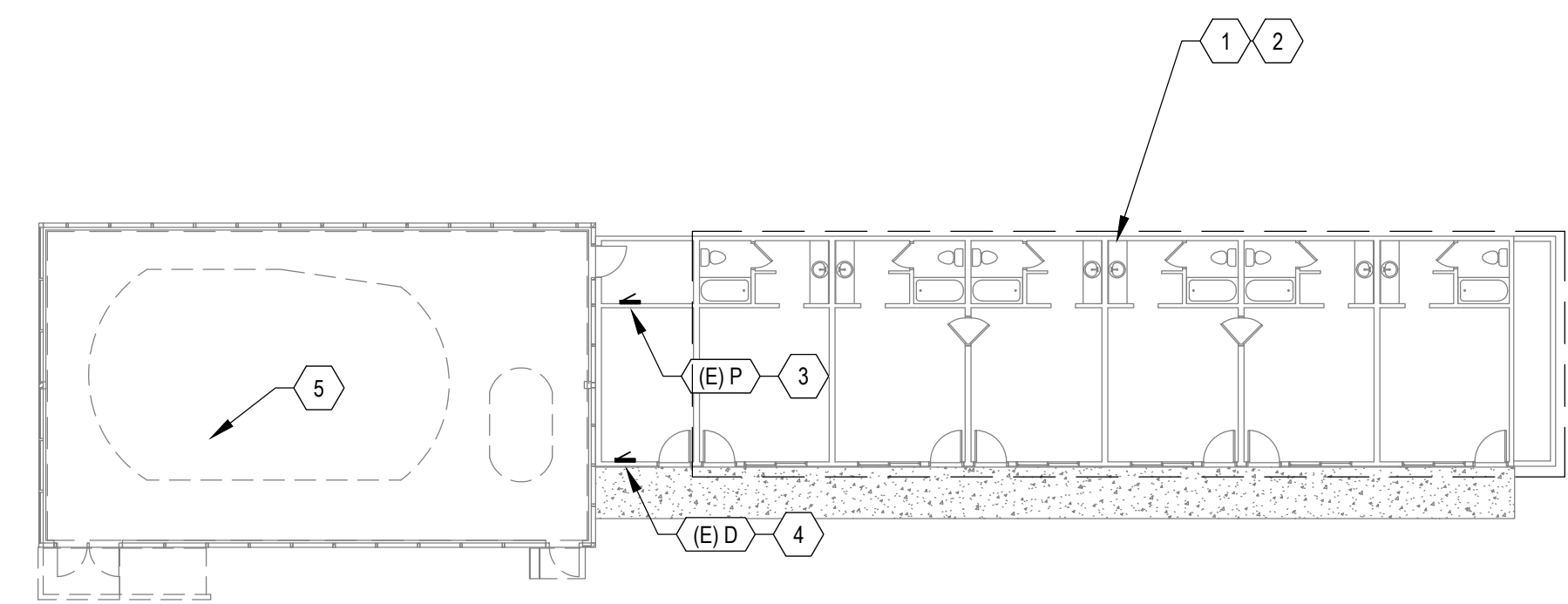
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ELECTRICAL DEMOLITION PLAN - BLDG 1

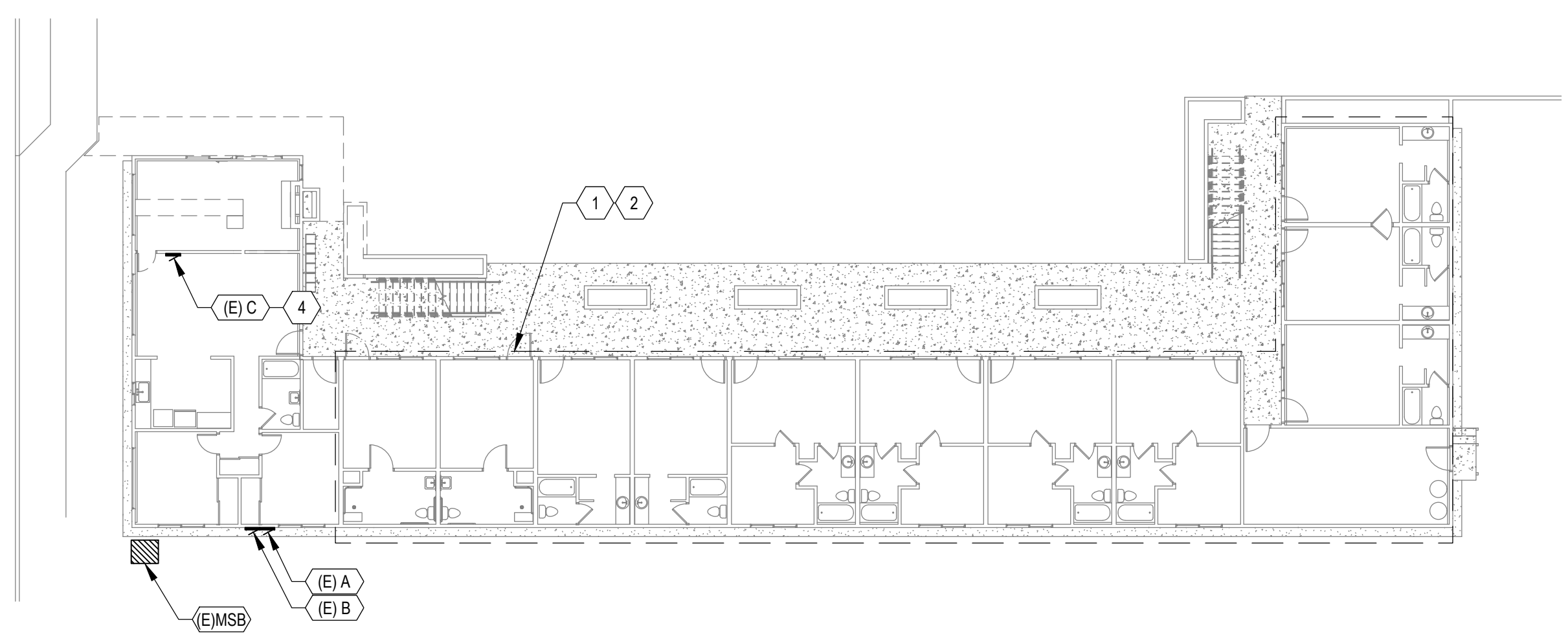
ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC

SHEET NUMBER:

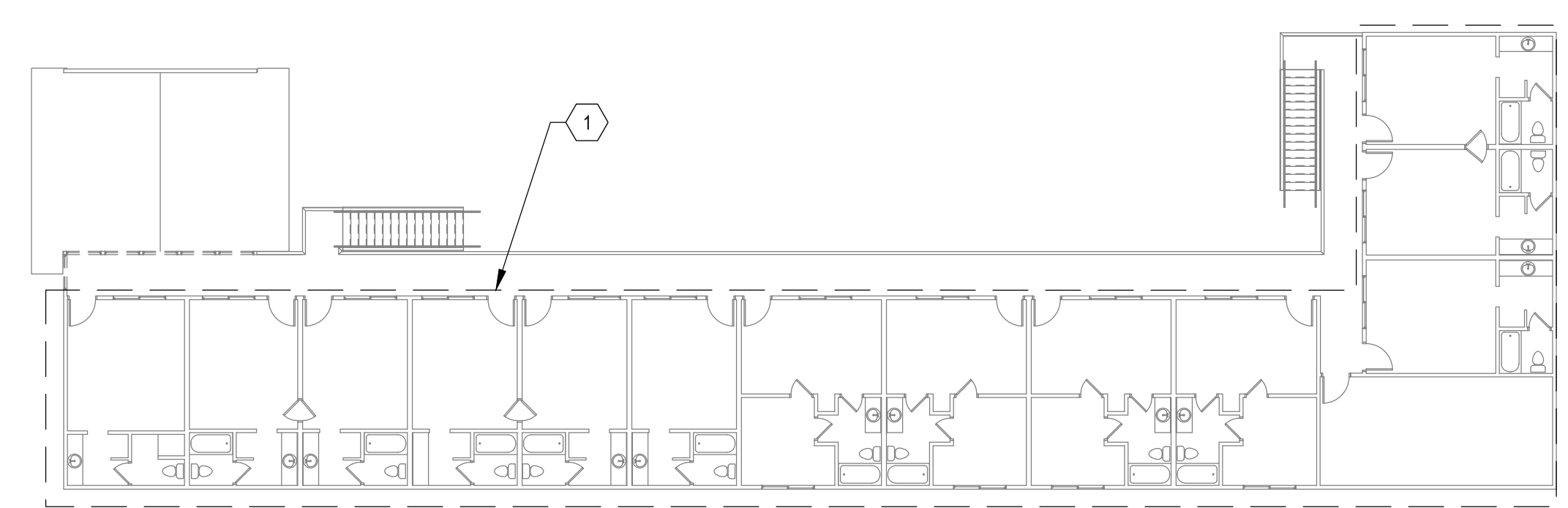
E102



3 ELECTRICAL - BLDG 1 SECOND FLOOR - DEMO
SCALE: 1/16" = 1'-0"
0 16' 32' 64'
SCALE : 1/16 = 1'-0"
PLAN NORTH



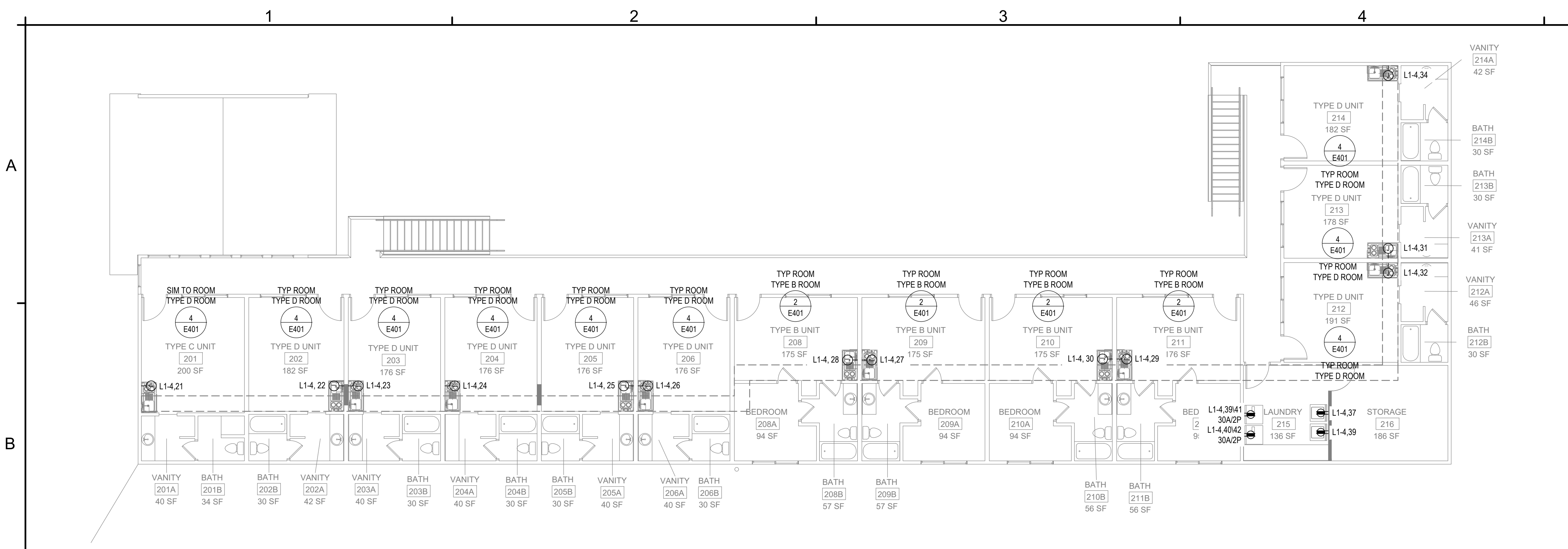
1 ELECTRICAL - BLDG 1 FIRST FLOOR - DEMO
SCALE: 1/16" = 1'-0"
0 16' 32' 64'
SCALE : 1/16 = 1'-0"
PLAN NORTH



2 ELECTRICAL - BLDG 2 SECOND FLOOR - NEW
SCALE: 1/16" = 1'-0"
0 16' 32' 64'
SCALE : 1/16 = 1'-0"
PLAN NORTH

KEYED NOTES - DEMOLITION

- 1. DEMOLISH (E) BRANCH CIRCUITS AND REPLACE IN EACH UNIT. PATCH AND REPAIR ANY DAMAGED SURFACES TO MATCH EXISTING.
- 2. ALL DEVICES SHALL BE REMOVED AND REPLACES WITH NEW AS INDICATED.
- 3. DEMOLISH PANEL AND FEEDER.
- 4. DEMOLISH (E) PANEL. RELOCATE PANEL AND EXTEND (E) BRANCH CIRCUITS.
- 5. DEMOLISH ALL ELECTRICAL AND LIGHTING.



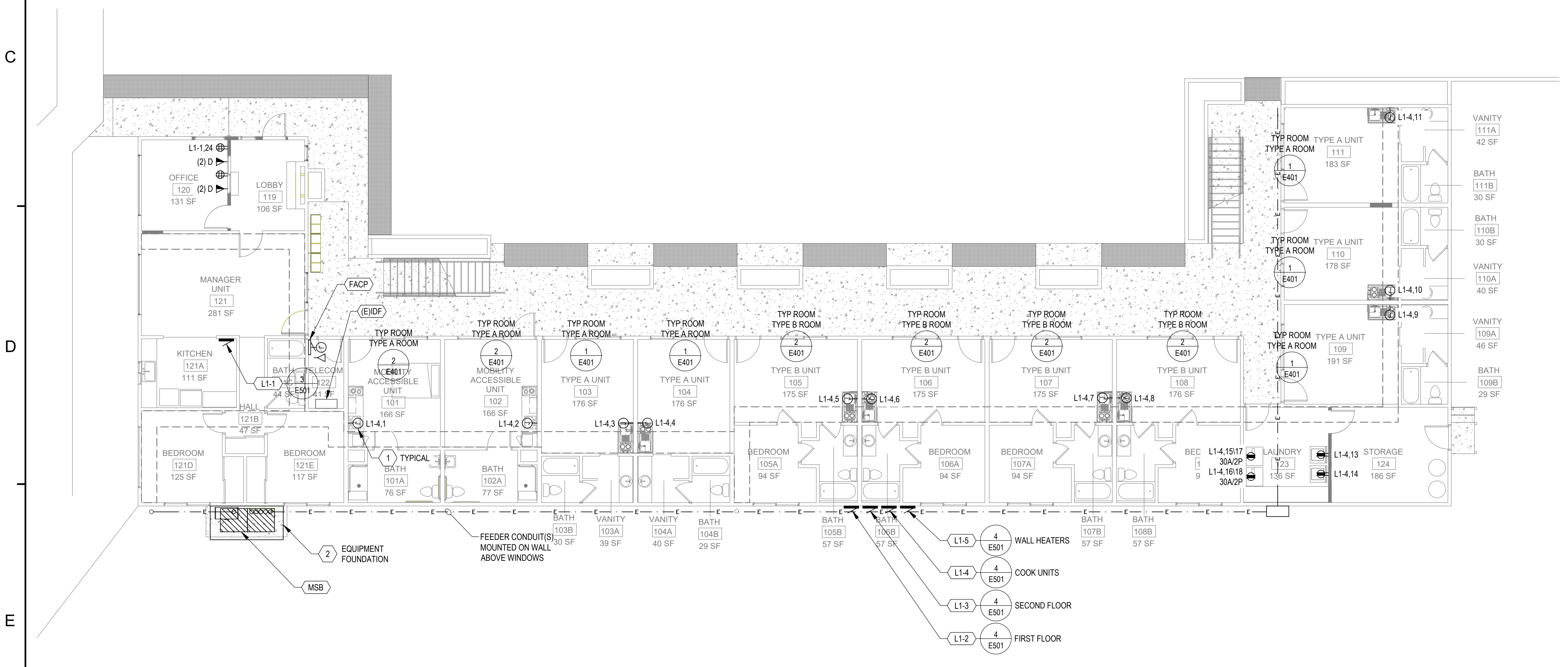
2 ELECTRICAL - BLDG 1 SECOND FLOOR - NEW
SCALE: 1/8" = 1'-0"

SHEET NOTES - ELECTRICAL

- A. ALL EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED WITH WP OR NEMA 3R RATING.
- B. PROVIDE HUB TYPE FITTINGS ON EXTERIOR CONDUITS.
- C. ALL EMPTY BOXES SHALL BE PROVIDED WITH BLANK COVER PLATES.
- D. VERIFY COLOR OF ALL DEVICES AND COVER PLATES WITH THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING.
- E. ALL EXTERIOR COVER PLATES SHALL BE STAINLESS STEEL.
- F. RECEPTACLES PROVIDED AT COUNTER TOPS SHALL BE LOCATED AT +6" ABOVE BACK SPLASH, VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- G. PROVIDE DUPLEX MECHANICAL EQUIPMENT MAINTENANCE RECEPTACLE WITHIN 25 FEET OF ALL EQUIPMENT TO BE SERVICED. LOCATE ON THE SAME LEVEL AS EQUIPMENT, INCLUDING ALL ATTICS, BASEMENTS AND CRAWL SPACES. IF LOCATED OUTDOOR OR BELOW GRADE GFCI PROTECTION IS REQUIRED.
- H. ALL ELECTRICAL CONSTRUCTION SHALL BE COORDINATED TO MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.
- I. PROVIDE TAMPER-RESISTANT RECEPTACLES ON ALL 15-20A 125-250V NON LOCKING TYPE RECEPTACLES IN THE FOLLOWING LOCATIONS PER ARTICLE 406.12 DWELLING UNITS, GUEST ROOMS OF HOTELS AND MOTELS, CHILD CARE FACILITIES, PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES, BUSINESS OFFICES, CORRIDORS, WAITING ROOMS AND THE LIKE IN CLINICS, MEDICAL AND DENTAL OFFICES AND OUTPATIENT FACILITIES, SUBSET OF ASSEMBLY OCCUPANCIES INCLUDING GYMNASIUMS, SKATING RINKS AND AUDITORIUMS AND DORMITORIES.
- J. WORKING CLEARANCE FOR SERVICE ENTRANCE EQUIPMENT FLOOR MOUNTED OR OVER 225A SHALL BE A MINIMUM OF 48-INCHES DEEP BY 105-INCHES HEIGHT PER PG&E GREENBOOK 5.4.4 REQUIREMENTS. CONTRACTOR SHALL VERIFY WITH SUBMITTALS WORKING CLEARANCE IS MAINTAINED.
- J. WORKING CLEARANCES FOR PANELBOARDS AND DISTRIBUTION BOARDS (NOT SERVICE ENTRANCE) UNDER 600V SHALL BE AS FOLLOWS:
FOR 240V OR 480V SYSTEMS MAINTAIN A MINIMUM OF 48-INCHES ON FRONT OF EQUIPMENT.
PROVIDE MINIMUM 6'-6" HEADROOM AT ALL LOCATIONS.
- L. ALL NON-DWELLING KITCHEN RECEPTACLES, RATED 150V TO GROUND OR LESS, 50A OR LESS AND THREE PHASE RECP RATED 150V TO GROUND OR LESS AND 100A OR LESS SHALL BE GFCI PROTECTED PER CEC 210.8(B)(2).
- M. PAINT ALL NEW ELECTRICAL EQUIPMENT AND EXPOSED CONDUITS TO MATCH EXISTING SURFACE(S) AFTER INSTALLATION.
- N. PROVIDE NEW COVER PLATES ON ALL NEW AND EXISTING DEVICES.

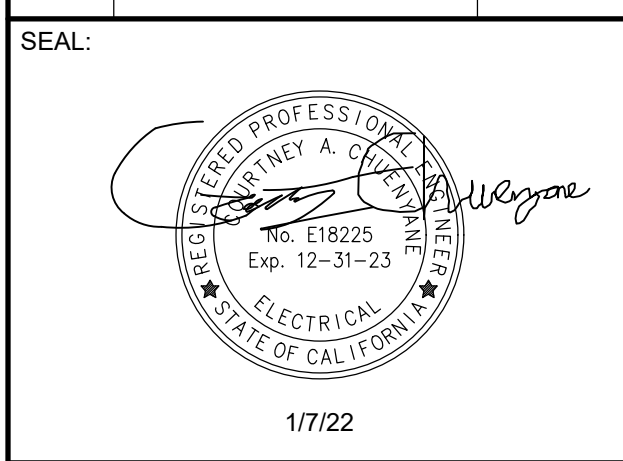
KEYED NOTES - ELECTRICAL (X)

- 1. POWER FOR NEW COOK UNIT.
- 2. SEE STRUCTURAL DRAWINGS FOR ELECTRICAL EQUIPMENT FOUNDATION.



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

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

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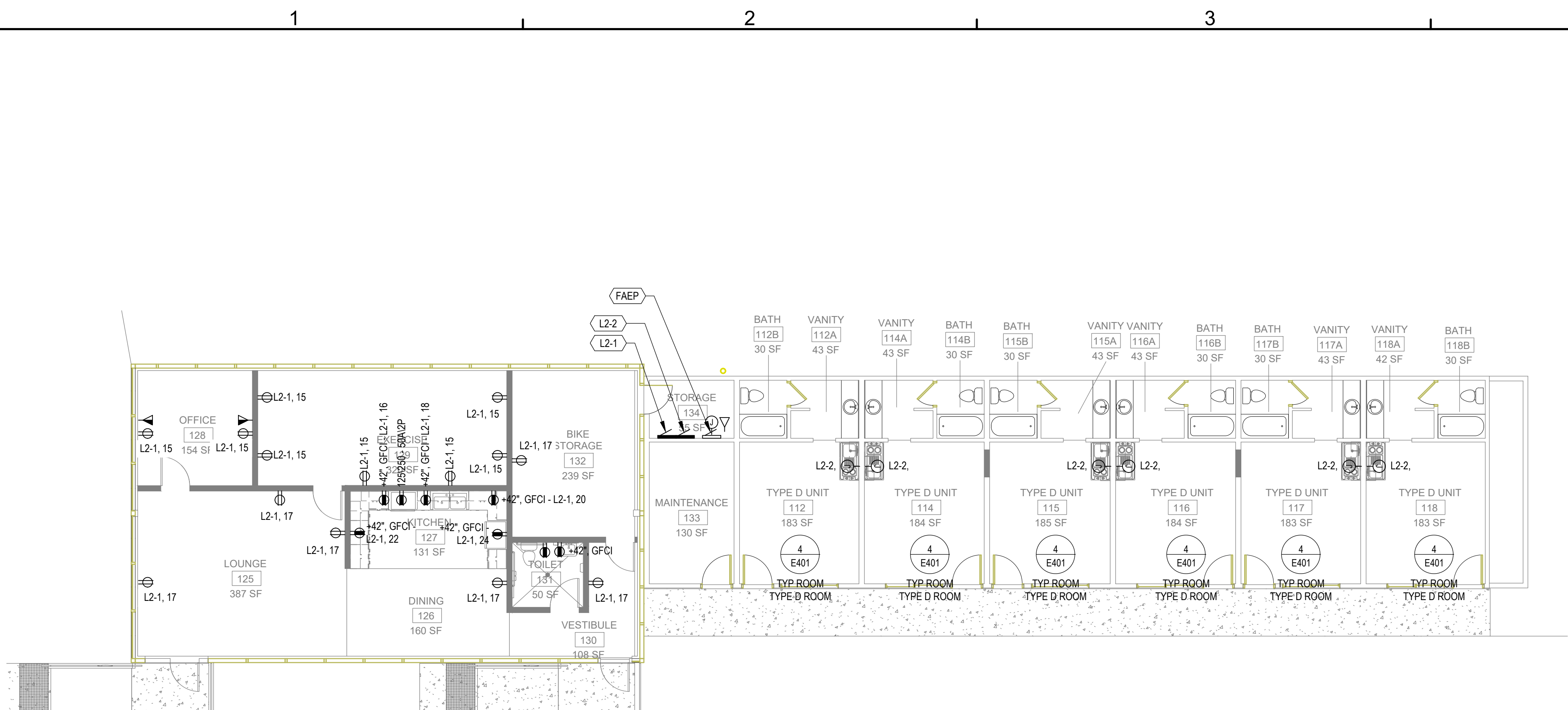
PROJECT:
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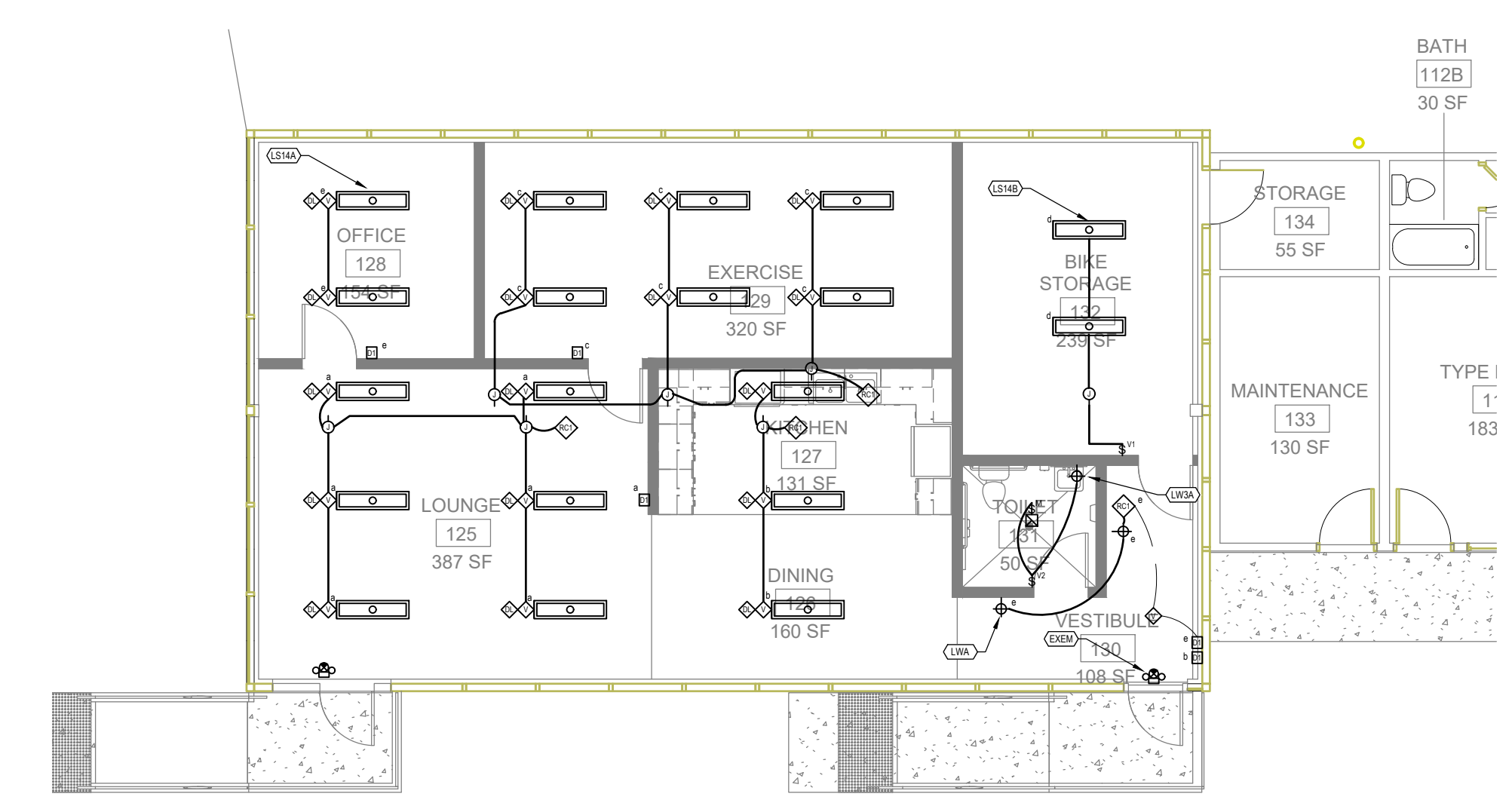
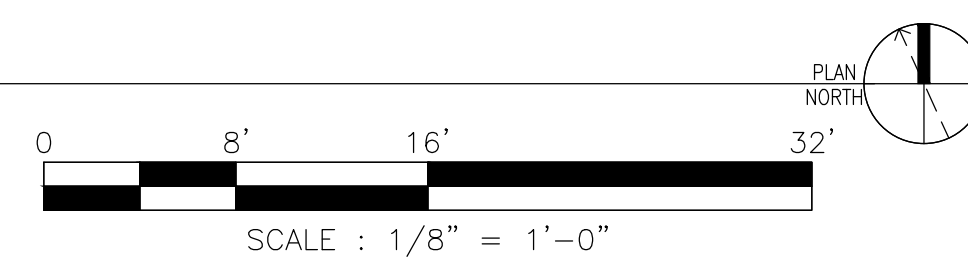
SHEET NAME:
ELECTRICAL PLAN - BLDG 1

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

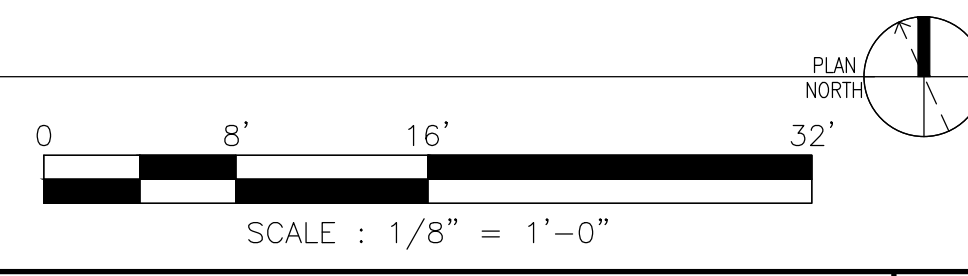
E103



2 ELECTRICAL - BLDG 2 SECOND FLOOR - NEW
SCALE: 1/8" = 1'-0"



1 ELECTRICAL - BLDG 2 SECOND FLOOR - NEW
SCALE: 1/8" = 1'-0"



LIGHTING FIXTURE SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMP	LAMP WATTAGE	FIXTURE INPUT WATTS	DIMMING TYPE	MOUNTING	NOTES
LS14A	4" SURFACE MOUNT LED FIXTURE WITH INTEGRAL OCCUPANCY/DA/LIGHT SENSOR	LITHONIA	BLWP4-48-ADSM-E21-LP835-NB37ADCX	LED	40	40	0-10V	CEILING/SURFACE	
LS14B	4" SURFACE MOUNT LED	LITHONIA	BLWP4-48-ADSM-E21-LP835	LED	40	40	NONE	CEILING/SURFACE	
LWA	WALL MOUNT LED	HEALTHCARE LIGHTING	HP88-MVOLT-35K-ZT-DARK-BA	LED	17	17	0-10V	WALL	
LWA0A	3" WALL MOUNT LED VANITY	LITHONIA	FMVCSL-36IN-MVOLT-30K-60CR-BN	LED	25	25	NONE	WALL	
EXEM	WHITE EXIT SIGN WITH INTEGRAL EMERGENCY LAMPS WITH 90 MINUTE BATTERY BACKUP, RED LETTERING, REMOTE HEADS - ORDER WHERE SHOWN, INDOOR WHITE (SEE TYP. OUTDOOR BLACK (SEE TYP. 90))	LITHONIA OR EQUAL	ECC R M (ADD REM FOR ANY REMOTE HEADS)	LED		5	NONE	UNIVERSAL	

SHEET NOTES - DEMOLITION

- A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING AVAILABLE RECORD DOCUMENTS.
- B. REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.
- C. DISCONNECT, REMOVE AND/OR EXTEND ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- D. RECONNECT EQUIPMENT BEING DISTURBED BY RENOVATION WORK AND REQUIRED FOR CONTINUE SERVICE TO NEAREST AVAILABLE PANEL.
- E. DISCONNECT OR SHUT OFF SERVICE TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ELECTRICAL FIXTURES, EQUIPMENT, AND RELATED SWITCHES, OUTLETS, CONDUIT AND WIRING WHICH ARE NOT PART OF FINAL PROJECT.
- F. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- G. DO NOT PERFORM WORK ON ENERGIZED EQUIPMENT OR CIRCUITS.
- H. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- I. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- J. REMOVE EXPOSED ABANDONED GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILING FINISHES. CUT EMBEDDED SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS.
- K. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN OR TO BE REINSTALLED.
- L. PROTECT AND RETAIN POWER TO EXISTING ACTIVE EQUIPMENT REMAINING.
- M. CAP ABANDONED EMPTY CONDUIT AT BOTH ENDS.
- N. SEAL ANY PENETRATIONS IN FIRE RATED WALLS.
- O. PATCH, REPAIR AND RE-FINISH (E) SURFACES DAMAGED DUE TO DEMOLITION.
- P. ALL (E) TELECOM AND CCTV SYSTEM SHALL REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.

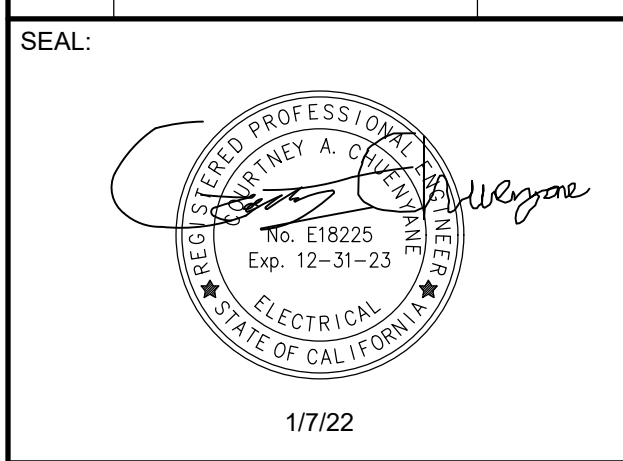
SHEET NOTES - ELECTRICAL

- A. ALL EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED WITH WP OR NEMA 3R RATING.
- B. PROVIDE HUB TYPE FITTINGS ON EXTERIOR CONDUITS.
- C. ALL EMPTY BOXES SHALL BE PROVIDED WITH BLANK COVER PLATES.
- D. VERIFY COLOR OF ALL DEVICES AND COVER PLATES WITH THE OWNERS REPRESENTATIVE PRIOR TO ORDERING.
- E. ALL EXTERIOR COVER PLATES SHALL BE STAINLESS STEEL.
- F. RECEPTACLES PROVIDED AT COUNTER TOPS SHALL BE LOCATED AT +6" ABOVE BACK SPLASH. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- G. PROVIDE DUPLEX MECHANICAL EQUIPMENT MAINTENANCE RECEPTACLE WITHIN 25-FEET OF ALL EQUIPMENT TO BE SERVICED. LOCATE ON THE SAME LEVEL AS EQUIPMENT, INCLUDING ALL ATTICS, BASEMENTS AND CRAWL SPACES. IF LOCATED OUTDOOR OR BELOW GRADE GFCI PROTECTION IS REQUIRED.
- H. ALL ELECTRICAL CONSTRUCTION SHALL BE COORDINATED TO MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.
- I. PROVIDE TAMPER-RESISTANT RECEPTACLES ON ALL 15-20A 125-250V NON LOCKING TYPE RECEPTACLES IN THE FOLLOWING LOCATIONS PER ARTICLE 406.12 DWELLING UNITS, GUEST ROOMS OF HOTELS AND MOTELS, CHILD CARE FACILITIES, PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES, BUSINESS OFFICES, CORRIDORS, WAITING ROOMS AND THE LIKE IN CLINICS, MEDICAL AND DENTAL OFFICES AND OUTPATIENT FACILITIES, SUBSET OF ASSEMBLY OCCUPANCIES INCLUDING GYMNASIUMS, SKATING RINKS AND AUDITORIUMS AND DORMITORIES.
- J. WORKING CLEARANCE FOR SERVICE ENTRANCE EQUIPMENT FLOOR MOUNTED OR OVER 225A SHALL BE A MINIMUM OF 48-INCHES DEEP BY 105-INCHES HEIGHT PER PG&E GREENBOOK 5.4.4 REQUIREMENTS. CONTRACTOR SHALL VERIFY WITH SUBMITTALS WORKING CLEARANCE IS MAINTAINED.
- K. WORKING CLEARANCE FOR PANELS AND DETENTION BOARD

KEYED NOTES - ELECTRICAL

- 1. POWER FOR NEW COOK UNIT.
- 2. SEE STRUCTURAL DRAWINGS FOR ELECTRICAL EQUIPMENT FOUNDATION.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



1/7/22
CONSULTANT:

BrokawDesign
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ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA.
95531

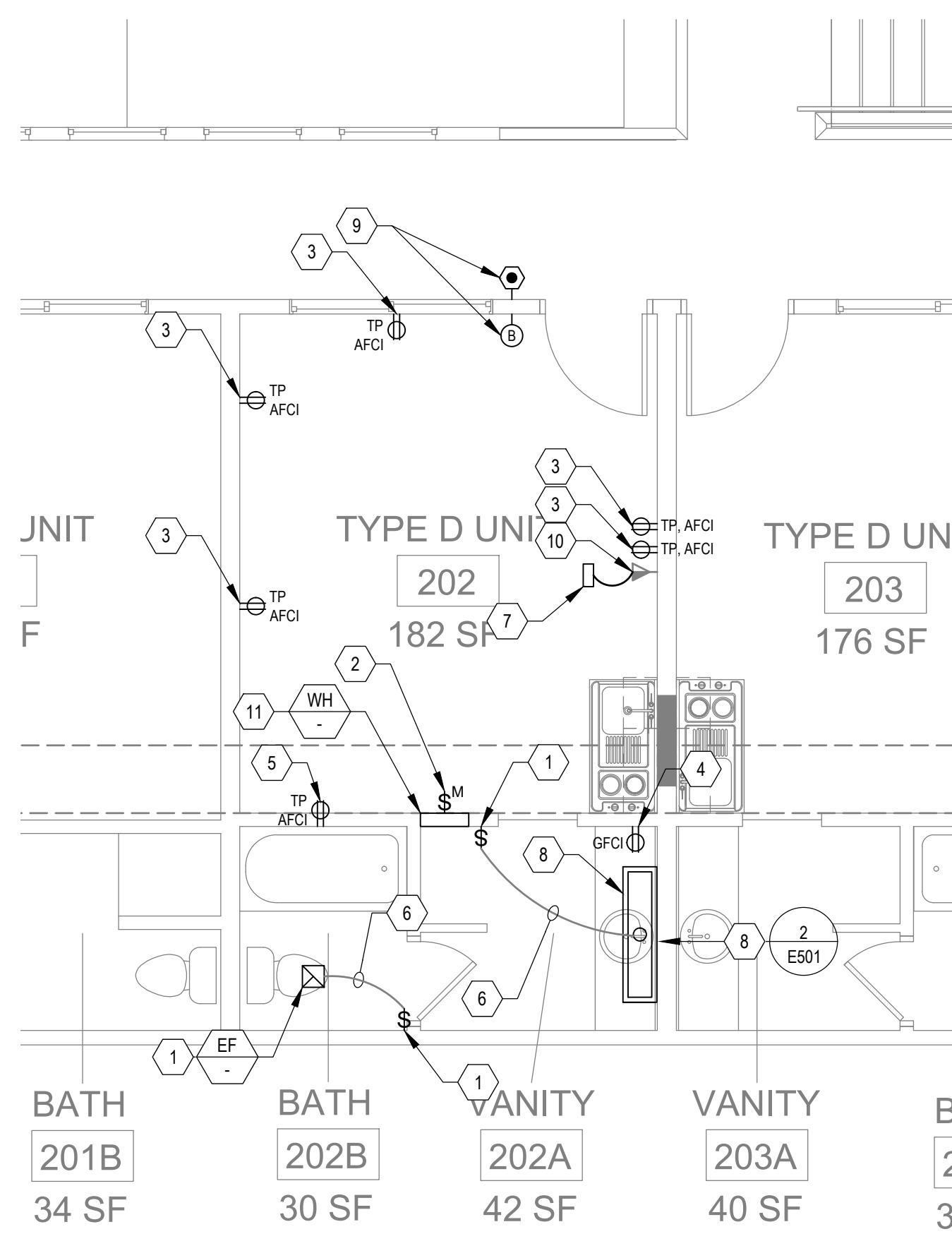
SHEET NAME:
ELECTRICAL PLAN - BLDG 2

ISSUE DATE: 1/7/22
PREPARATION AND REVIEW
DRAWN BY: MOB
DESIGNER: MOB
PROJ MGR:
PEER REVIEW: CAC
SHEET NUMBER:

E104

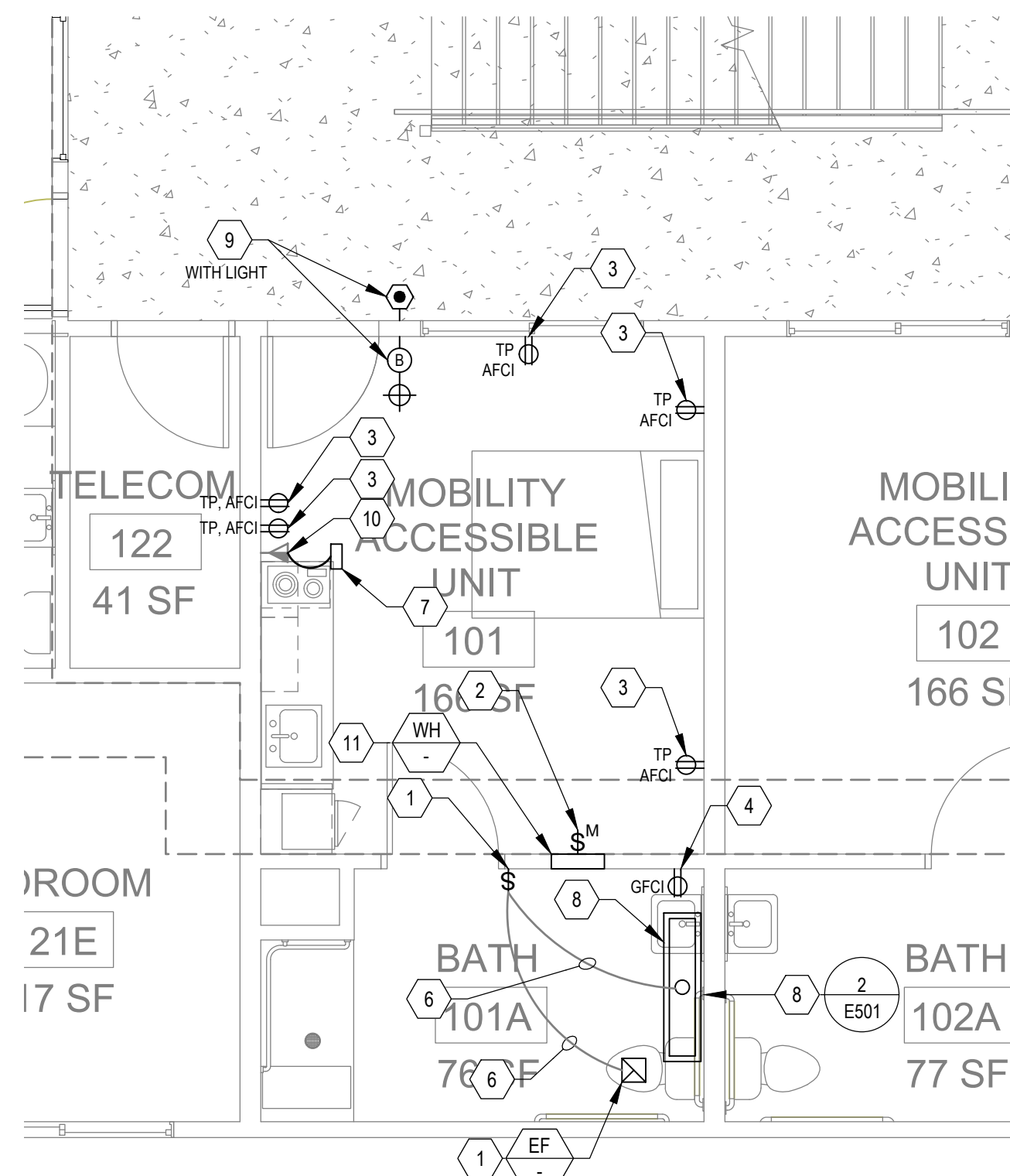
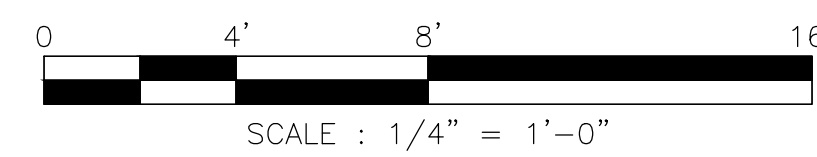
KEYED NOTES - PARTIAL PLANS (X)

1. REPLACE (E) SWITCH WITH VACANCY CONTROL. LEVITON IPS02-1LW OR EQ.
2. BRANCH CIRCUIT TO NEW WALL HEATER - RECONNECT TO (E) BRANCH CIRCUIT.
3. REPLACE (E) OUTLET WITH 20AMP TAMPER RESISTANT AFCI PROTECTION RATED DEVICE. LEVITON SMARTLOCK PRO SERIES OR EQ. PROVIDE NEW BRANCH CIRCUIT TO NEW PANEL. SEE SCHEDULE.
4. REPLACE (E) OUTLET WITH 20AMP TAMPER RESISTANT AFCI/GFCI PROTECTION RATED DEVICE. LEVITON SMARTLOCK PRO SERIES OR EQ. PROVIDE NEW BRANCH CIRCUIT TO NEW PANEL. SEE SCHEDULE.
5. PROVIDE NEW OUTLET IN LOCATION INDICATED. CONNECT TO TO NEW BRANCH CIRCUIT FOR THE ROOM.
6. USE (E) WIRING BETWEEN SWITCH AND LIGHT. CONNECT TO (N) BRANCH CIRCUIT. CONNECT COMPLETE.
7. EXISTING ROOM WIFI TO REMAIN.
8. REPLACE (E) WALL MOUNTED STRIP FIXTURE WITH NEW LED FIXTURE. LITHONIA : FMLWL 48 840 ZT MVOLT OR EQ. PROVIDE NEW BRANCH CIRCUIT TO NEW PANEL. SEE SCHEDULE.
9. PROVIDE 120V CIRCUIT CONNECTED TO THE (N) BRANCH OUTLET CIRCUIT FOR THE ROOM, TRANSFORMER, DOOR BELL AND OPERATING BUTTON. BUTTON SHALL BE MOUNTED 48" ABOVE FINISH FLOOR. WHERE VISIBLE DOORBELL SIGNALS ARE LOCATED IN SLEEPING AREAS, THEY SHALL HAVE CONTROLS TO DEACTIVATE THE SIGNAL CONNECT COMPLETE.
10. EXISTING ROOM WIFI TO REMAIN.
11. POWER FOR NEW WALL HEATER. PROVIDE NEW BRANCH CIRCUIT TO NEW PANEL. SEE SCHEDULES



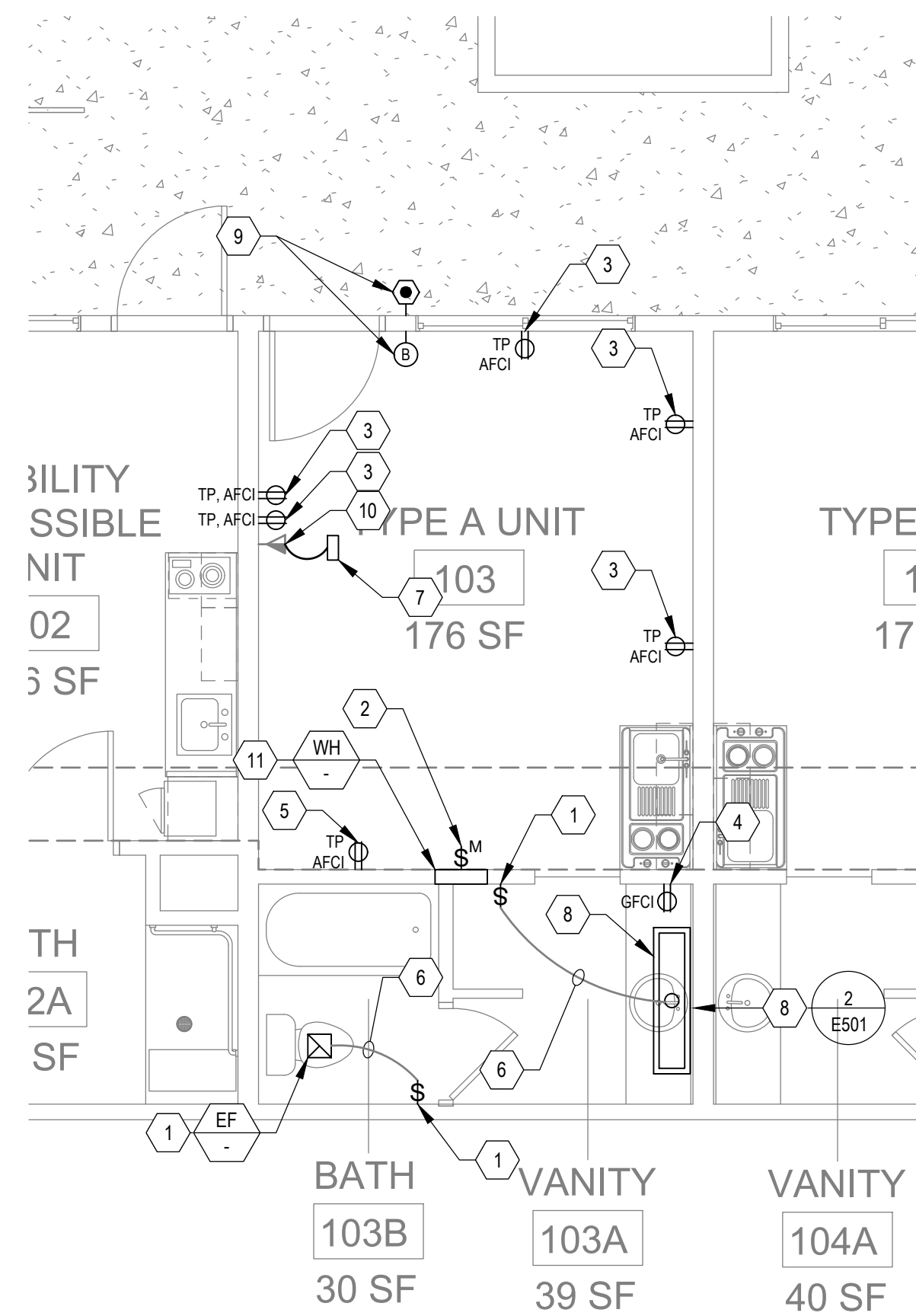
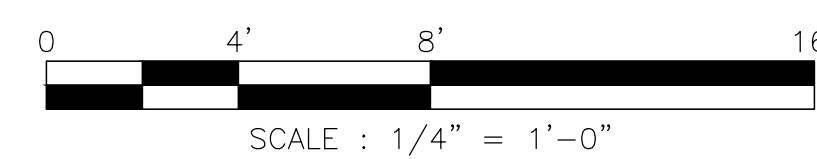
4 PARTIAL PLAN - D UNIT (C UNIT SIM)

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



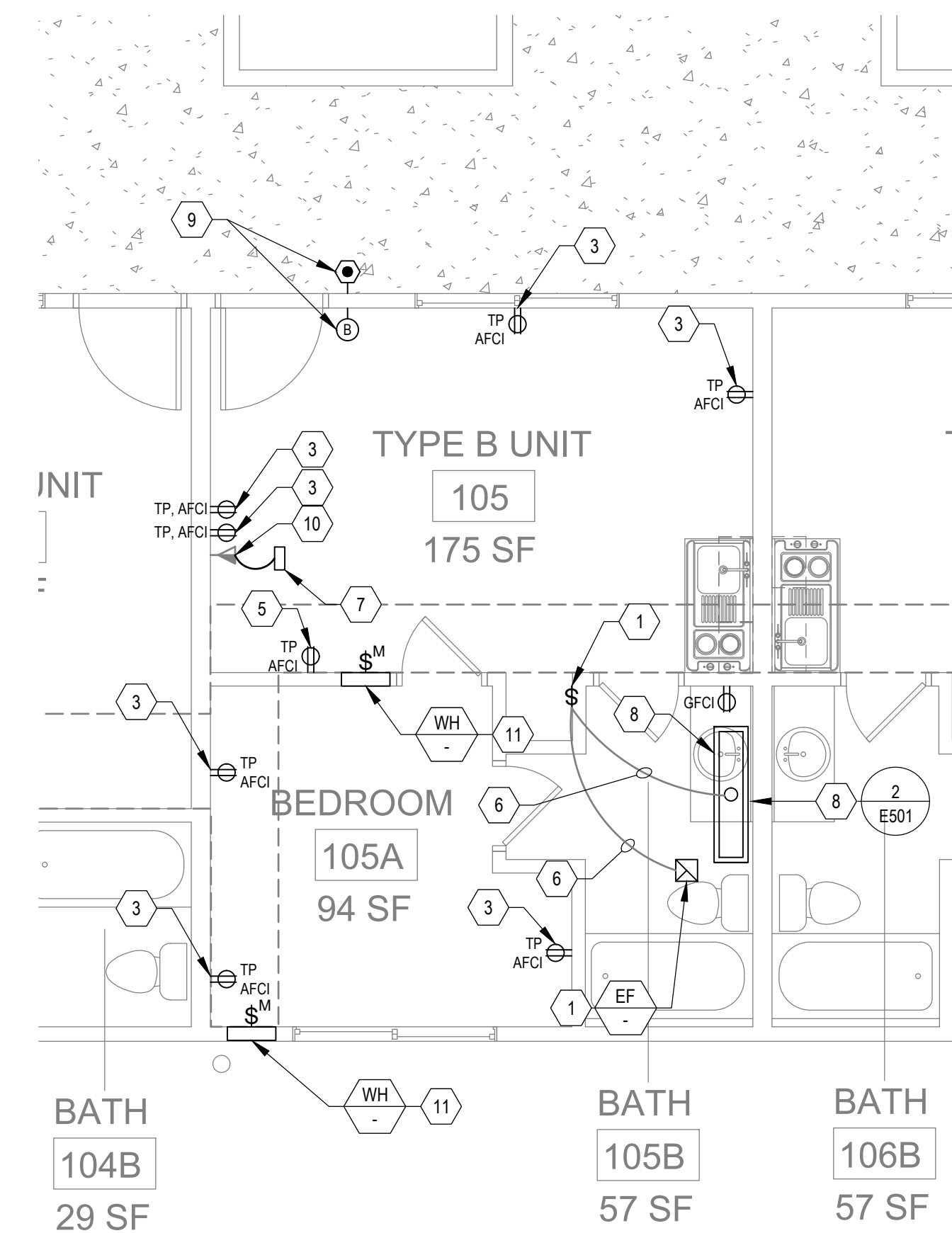
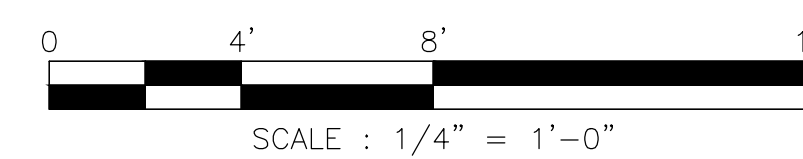
1 PARTIAL PLAN - ACCESSIBLE

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



2 PARTIAL PLAN - A UNIT

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

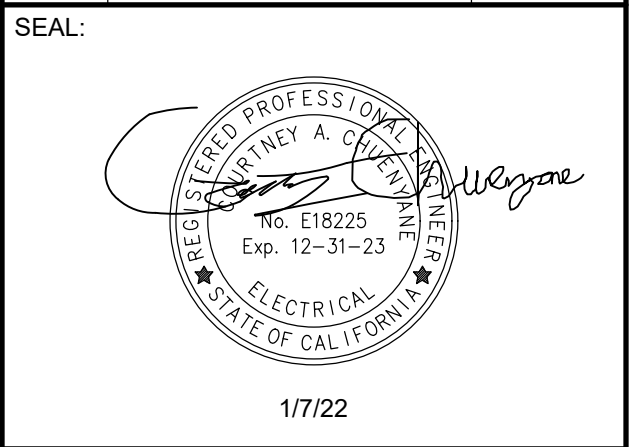


3 PARTIAL PLAN - B UNIT

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



REVISION SCHEDULE		
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CONSULTANT:

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PROJECT:
THE LEGACY RENOVATION

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95531

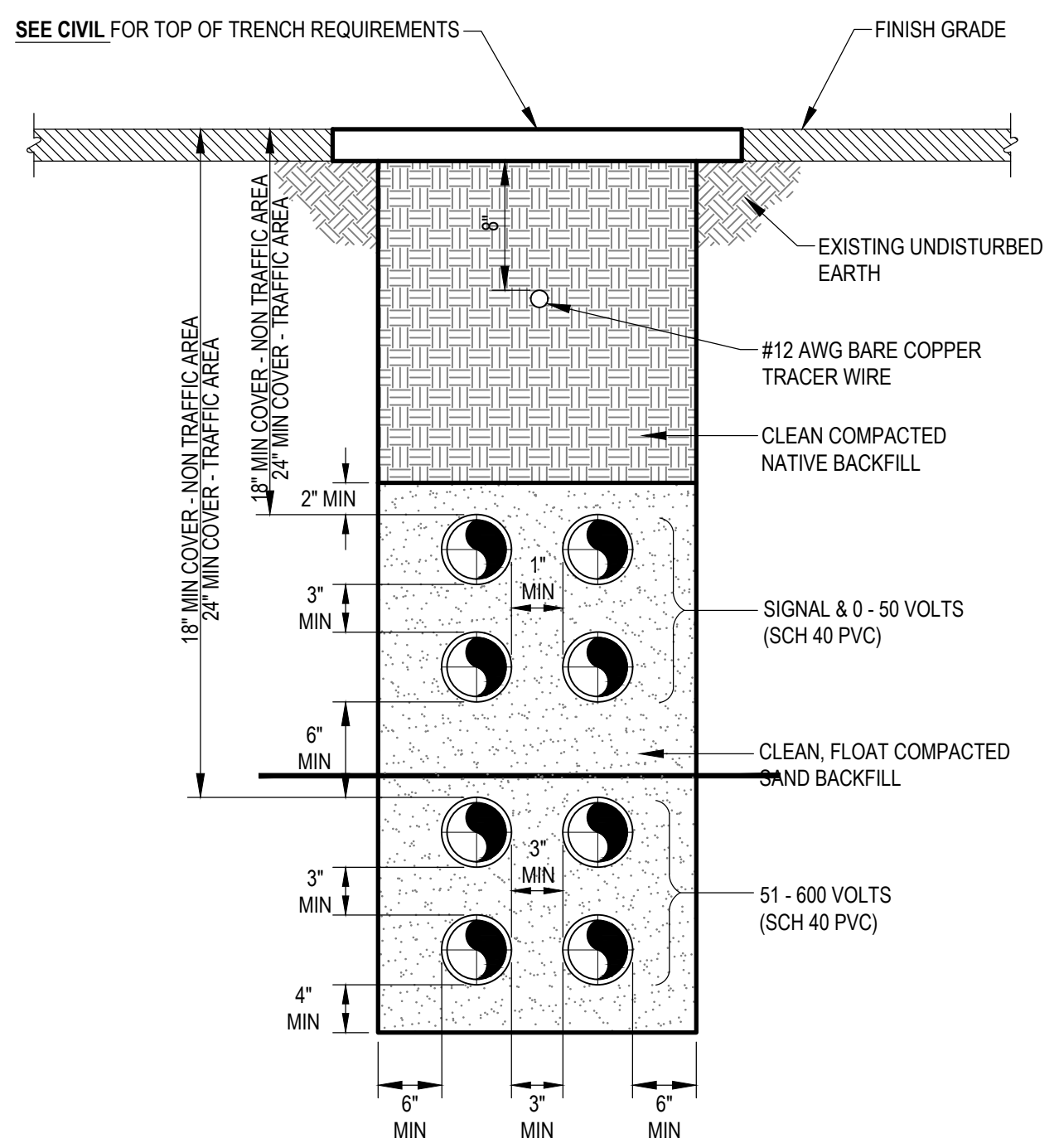
SHEET NAME:
ELECTRICAL PARTIAL PLANS

ISSUE DATE: 1/7/22
PREPARATION AND REVIEW
DRAWN BY: MOB
DESIGNER: MOB
PROJ MGR: MOB
PEER REVIEW: CAC
SHEET NUMBER:

E401

TABLE "A" - PVC		
CONDUIT SIZE	MINIMUM ELBOW RADIUS REQUIREMENTS	
	RUNS 0-100 FEET	RUNS GREATER THAN 101 FEET
1/2"	18"	24"
3/4"	18"	24"
1"	24"	36"
1 1/4"	24"	36"
1 1/2"	24"	36"
2"	24"	36"
2 1/2"	24"	36"
3"	36"	48"
4"	36"	48"
5"	36"	48"
6"	36"	48"

TABLE "B" - RSG		
CONDUIT SIZE	MINIMUM ELBOW RADIUS REQUIREMENTS	
	RUNS 0-100 FEET	RUNS GREATER THAN 101 FEET
1/2"	4"	4"
3/4"	4 1/2"	4 1/2"
1"	5 3/4"	5 3/4"
1 1/4"	7 1/4"	7 1/4"
1 1/2"	8 1/4"	8 1/4"
2"	9 1/2"	9 1/2"
2 1/2"	10 1/2"	11 7/16"
3"	13"	13 3/4"
4"	16"	18 1/4"
5"	24"	-
6"	30"	-

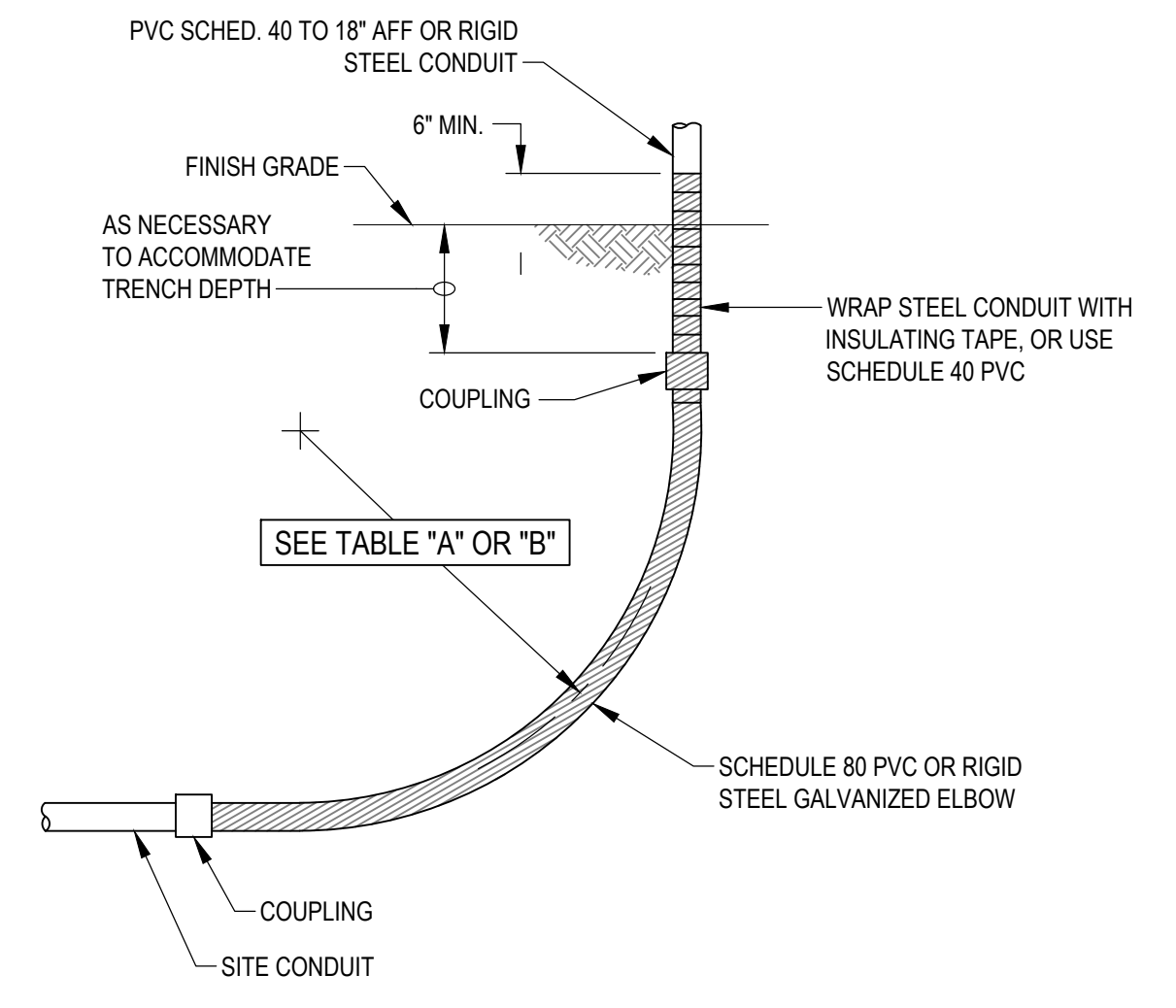


DETAIL NOTES

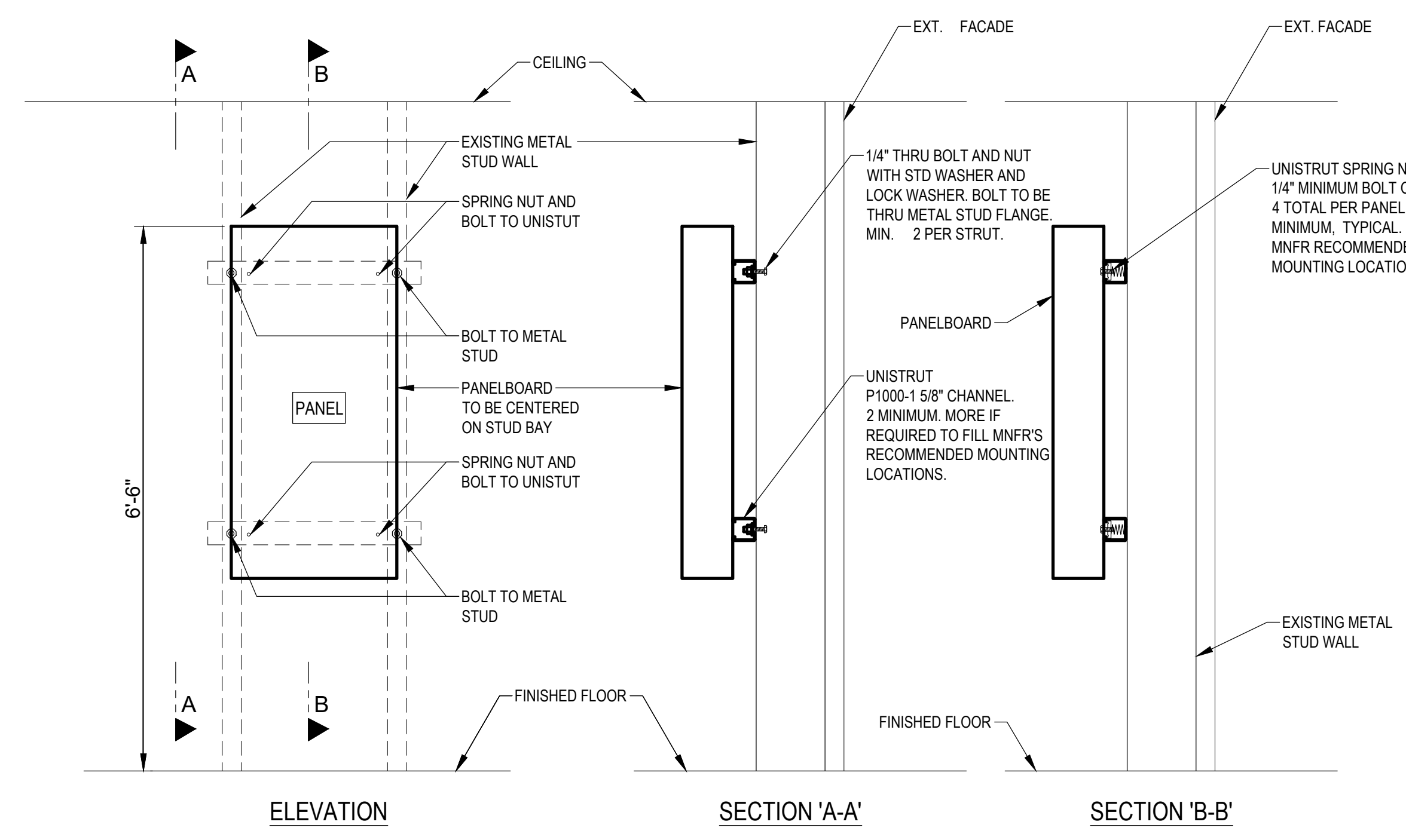
A. THE CONFIGURATION INDICATED IS DIAGRAMMATIC TO ILLUSTRATE THE REQUIRED MINIMUM SEPARATIONS FOR TRENCH UTILITIES.

B. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS PURSUANT TO THE PLANS AND DIAGRAMS.

4 TYPICAL TRENCH REQUIREMENTS
NOT TO SCALE

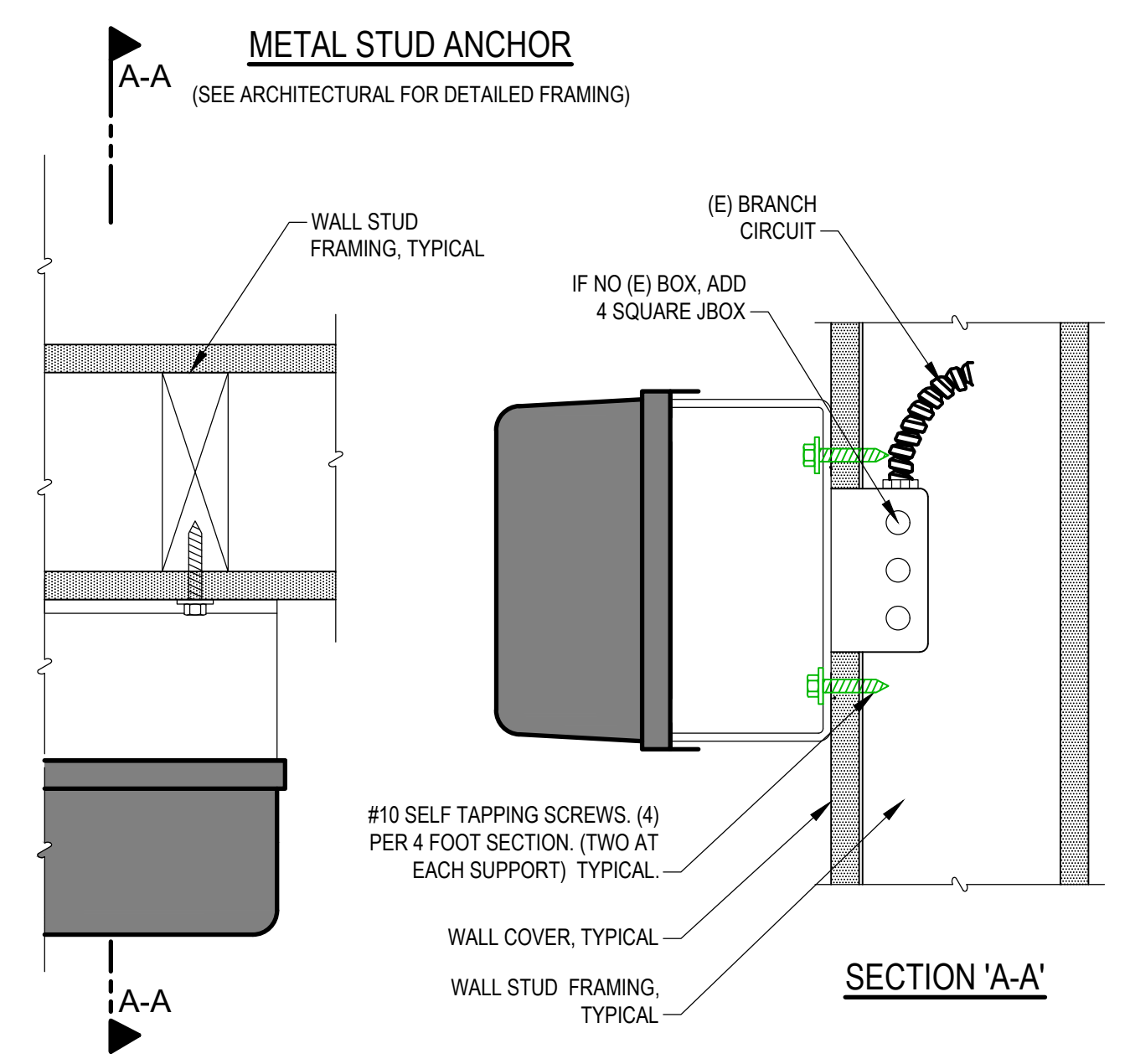


5 CONDUIT SWEEP REQUIREMENTS
NOT TO SCALE



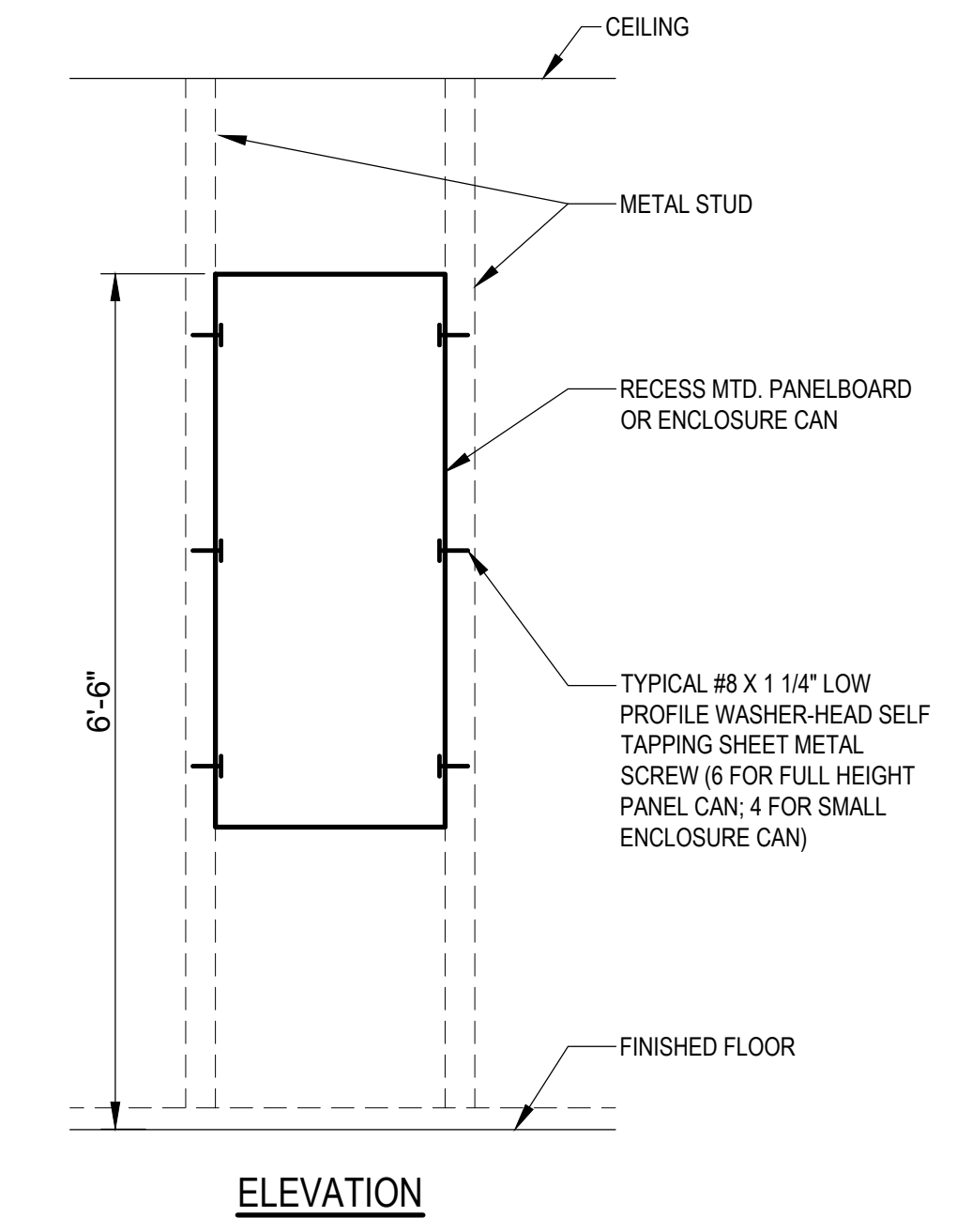
- PROVIDE #10 SCREWS TO FASTEN ELECTRICAL PANEL TO METAL STUDS AS FOLLOWS:
 - FASTEN WITH 6-#10 SCREWS INTO EACH OF A MINIMUM OF TWO VERTICAL STUDS.
 - FASTEN WITH 4-#10 SCREWS INTO EACH OF A MIN OF TWO HORIZONTAL BLOCKING.
- METAL STUDS TO BE 33 MIL MINIMUM.
- PANEL BOARD TO BE 300 LB MAX. WHEN LOADED WITH BREAKERS AND WIRE.

1 PANELBOARD MOUNTING
NOT TO SCALE



- DETAIL KEYED NOTES**
- THIS DETAIL IS APPLICABLE TO FIXTURES THAT WEIGH 30 LBS OR LESS AND ARE RIGIDLY ATTACHED TO THE SUPPORTING STRUCTURE.
 - FASTEN LIGHT FIXTURE ON METAL STUD WALL CONSTRUCTION WITH (2) #10 SELF TAPPING SCREWS INTO MINIMUM OF TWO VERTICAL STUDS.

2 SURFACE WALL FIXTURE
NOT TO SCALE



2 FLUSH PANELBOARD MOUNTING
NOT TO SCALE

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

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1/7/22

CONSULTANT:

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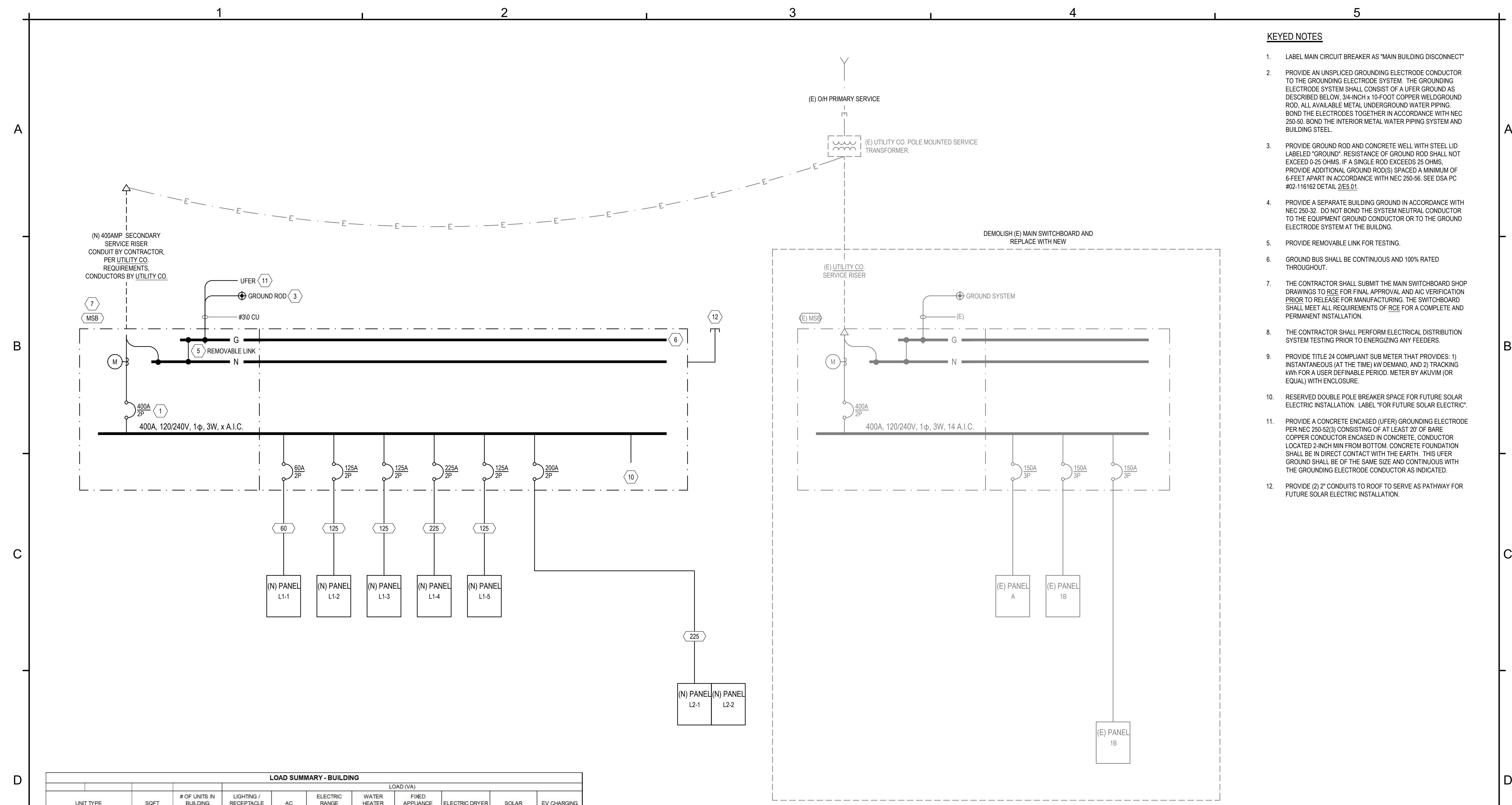
PROJECT:
THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA.
95531

SHEET NAME:
ELECTRICAL DETAILS

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC

SHEET NUMBER:
E501



- KEYED NOTES**
- LABEL MAIN CIRCUIT BREAKER AS "MAIN BUILDING DISCONNECT"
 - PROVIDE AN UNSPLICED GROUNDING ELECTRODE CONDUCTOR TO THE GROUNDING ELECTRODE SYSTEM. THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF A UFER GROUND AS DESCRIBED BELOW, 3/4-INCH x 10-FOOT COPPER WELDGROUND ROD. ALL AVAILABLE METAL UNDERGROUND WATER PIPING. BOND THE ELECTRODES TOGETHER IN ACCORDANCE WITH NEC 250-50. BOND THE INTERIOR METAL WATER PIPING SYSTEM AND BUILDING STEEL.
 - PROVIDE GROUND ROD AND CONCRETE WELL WITH STEEL LID LABELED "GROUND". RESISTANCE OF GROUND ROD SHALL NOT EXCEED 0.25 OHMS. IF A SINGLE ROD EXCEEDS 25 OHMS, PROVIDE ADDITIONAL GROUND ROD(S) SPACED A MINIMUM OF 6-FEET APART IN ACCORDANCE WITH NEC 250-56. SEE DSA PC #02-116162 DETAIL 2/E5.01.
 - PROVIDE A SEPARATE BUILDING GROUND IN ACCORDANCE WITH NEC 250-32. DO NOT BOND THE SYSTEM NEUTRAL CONDUCTOR TO THE EQUIPMENT GROUND CONDUCTOR OR TO THE GROUND ELECTRODE SYSTEM AT THE BUILDING.
 - PROVIDE REMOVABLE LINK FOR TESTING.
 - GROUND BUS SHALL BE CONTINUOUS AND 100% RATED THROUGHOUT.
 - THE CONTRACTOR SHALL SUBMIT THE MAIN SWITCHBOARD SHOP DRAWINGS TO RCE FOR FINAL APPROVAL AND AIC VERIFICATION PRIOR TO RELEASE FOR MANUFACTURING. THE SWITCHBOARD SHALL MEET ALL REQUIREMENTS OF RCE FOR A COMPLETE AND PERMANENT INSTALLATION.
 - THE CONTRACTOR SHALL PERFORM ELECTRICAL DISTRIBUTION SYSTEM TESTING PRIOR TO ENERGIZING ANY FEEDERS.
 - PROVIDE TITLE 24 COMPLIANT SUB METER THAT PROVIDES: 1) INSTANTANEOUS (AT THE TIME) KW DEMAND, AND 2) TRACKING KWH FOR A USER DEFINABLE PERIOD. METER BY AKUVIM (OR EQUAL) WITH ENCLOSURE.
 - RESERVED DOUBLE POLE BREAKER SPACE FOR FUTURE SOLAR ELECTRIC INSTALLATION. LABEL "FOR FUTURE SOLAR ELECTRIC".
 - PROVIDE A CONCRETE ENCASED (UFER) GROUNDING ELECTRODE PER NEC 250-52(3) CONSISTING OF AT LEAST 20' OF BARE COPPER CONDUCTOR ENCASED IN CONCRETE, CONDUCTOR LOCATED 2-INCH MIN FROM BOTTOM. CONCRETE FOUNDATION SHALL BE IN DIRECT CONTACT WITH THE EARTH. THIS UFER GROUND SHALL BE OF THE SAME SIZE AND CONTINUOUS WITH THE GROUNDING ELECTRODE CONDUCTOR AS INDICATED.
 - PROVIDE (2) 2" CONDUITS TO ROOF TO SERVE AS PATHWAY FOR FUTURE SOLAR ELECTRIC INSTALLATION.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:

1/7/22

CONSULTANT:

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 ROHNERT PARK, CA 94927
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PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA.
 95531

SHEET NAME:
DIAGRAMS ELECTRICAL SITE

 ISSUE DATE: 1/7/22
 PREPARATION AND REVIEW
 DRAWN BY: MOB
 DESIGNER: MOB
 PROJ MGR:
 PEER REVIEW: CAC
 SHEET NUMBER:

E601

LOAD SUMMARY - BUILDING

UNIT TYPE	SQFT	# OF UNITS IN BUILDING	LOAD (VA)							
			LIGHTING / RECEPTACLE	AC	ELECTRIC RANGE	WATER HEATER	FIXED APPLIANCE	ELECTRIC DRYER	SOLAR	EV CHARGING
Studio	250	22	16,500	22,000	38,500	-	-	-	-	-
1-Bedroom	340	8	8,160	8,000	14,000	-	-	-	-	-
HOUSE (H)		1	7,000	-	-	-	-	-	-	-
TOTAL		30	31,660	30,000	52,500					

NEC STANDARD DEMAND LOAD CALCULATION

TOTAL	LIGHTING/RECP	AC	LOAD (VA)						
			RANGE	WH	APPLIANCE	DRYER	SOLAR	EV CHARGING	
	31,660	30,000	52,500	-	-	-	-	-	
			DEMAND (220.55)	DEMAND (220.53)	DEMAND (220.54)	DEMAND (690)	DEMAND		
MULTIPLIER	FIRST 3 KVA @100%	3,000.00	30%	75%	75%	32%	125%	125%	
	UP TO 120K KVA @35%	10,031							
	ABOVE 120K REMAINING KVA @25%	-							
TOTAL	Demand	13,031	30,000	15,750					
Standard Total Load Calculation	58,781 VA								
SERVICE VOLTAGE: 240		TOTAL DEMAND LOAD (KVA):		58.8		TOTAL DEMAND LOAD (A):		244.9	
PHASE: 1		BUS SIZE:		400A					

FEEDER AMPACITY CALCULATIONS (3P,1N,1G) - Copper Conductors (CU)

Standard Circuit Breaker or Fuse Size (240.6)	Wire Size CU (Phase(s) and Neutral)	Min GND (CU) Feeder/ Equipment (250.122)	Parallel Runs (Quantity)	Total Cable (CU) Ampacity	Min Conduit Size (EMT) (up to 5 wire)	Min Conduit Size (PVC) (up to 5 wire)	Min Conduit Size (IMC) (up to 5 wire)	MAX CIRCUIT LENGTH (HORIZONTAL) 2% VOLTAGE DROP *BUILDING NOT OVER 30FT HIGH IN CONDUIT			Notes
								480V, 3P	208V, 3P	240V, 3P	
60	4	10	1	70	1 1/2"	1 1/2"	1 1/4"	300 ft	130 ft	150 ft	
100	2	8	1	95	1 1/2"	1 1/2"	1 1/4"	290 ft	125 ft	145 ft	
125	1/0	8	1	136	2"	2"	1 1/2"	370 ft	160 ft	185 ft	
150	2/0	6	1	156	2"	2"	2"	370 ft	160 ft	185 ft	
175	3/0	6	1	180	2 1/2"	2 1/2"	2"	410 ft	175 ft	205 ft	
200	3/0	6	1	180	2 1/2"	2 1/2"	2"	360 ft	155 ft	180 ft	
225	4/0	4	1	208	2 1/2"	2 1/2"	2 1/2"	395 ft	170 ft	195 ft	
250	250	4	1	232	2 1/2"	3"	2 1/2"	425 ft	185 ft	215 ft	
300	350	4	1	280	3"	3"	3"	485 ft	210 ft	245 ft	
350	500	2	1	344	3 1/2"	3 1/2"	3 1/2"	585 ft	255 ft	295 ft	
400	3/0	2	2	360	2 1/2"	2 1/2"	2"	180 ft	75 ft	90 ft	
400	4/0	2	2	416	2 1/2"	2 1/2"	2 1/2"	220 ft	95 ft	110 ft	
400	600	2	1	380	4"	4"	3 1/2"	600 ft	260 ft	300 ft	

1 SINGLE LINE DIAGRAM - BUILDING POWER
 NOT TO SCALE

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-4
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.
Project Name: The Legacy Renovation | Report Page: (Page 1 of 7)
Project Address: 655 L Street | Date Prepared: 12/21/2021

A. GENERAL INFORMATION

01 Project Location (city)	Crescent City	04 Total Conditioned Floor Area (ft ²)	1,375		
02 Climate Zone	1	05 Total Unconditioned Floor Area (ft ²)	0		
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1		
<input checked="" type="checkbox"/> Office	<input type="checkbox"/> Retail	<input checked="" type="checkbox"/> Warehouse	<input type="checkbox"/> Hotel/Motel	<input type="checkbox"/> School	<input checked="" type="checkbox"/> Support Areas
<input checked="" type="checkbox"/> Parking Garage	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Relocatable	<input type="checkbox"/> Healthcare	<input checked="" type="checkbox"/> Other (Write In)	See Table I

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces		
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)	Calculation Method	Area (ft ²)
<input type="checkbox"/> New Lighting System				
<input type="checkbox"/> New Lighting System - Parking Garage				
<input checked="" type="checkbox"/> Altered Lighting System	Area Category Method	1375	Area Category Method	0
Total Area of Work (ft²)				0

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-12-21 11:01:37
Schema Version: rev 20200601

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-4
CERTIFICATE OF COMPLIANCE
Project Name: The Legacy Renovation | Report Page: (Page 2 of 7)
Project Address: 655 L Street | Date Prepared: 12/21/2021

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)(1)	Allowed Lighting Power per §140.6(b) (Watts)				=	Total Allowed (Watts)	Adjusted Lighting Power per §140.6(a) (Watts)			=	Total Adjusted (Watts)	Compliance Results
	01	02	03	04			06	07	08			
Complete Building §140.6(c)(1)	Area Category §140.6(c)(2)	Area Category Additional §140.6(c)(2)	Tailored §140.6(c)(3) (+)			Total Designed (Watts) §140.6(a)(2)	Adjustments (Watts) §140.6(a)(2) (-)	PAF Lighting Control Credits (-)			05 must be ≥ 08 §140.6	
(See Table I)	(See Table J)	(See Table J)	(See Table K)			(See Table F)	(See Table F)					
Conditioned	874	0				874	0			874	COMPLIES	
Unconditioned												
Controls Compliance (See Table H for Details) COMPLIES												
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector
LS14A	40w LED	No	No	40	CEC Default	17	No	680	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
LS14B	40w LED	No	No	40	CEC Default	2	No	80	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-12-21 11:01:37
Schema Version: rev 20200601

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-4
CERTIFICATE OF COMPLIANCE
Project Name: The Legacy Renovation | Report Page: (Page 3 of 7)
Project Address: 655 L Street | Date Prepared: 12/21/2021

F. INDOOR LIGHTING FIXTURE SCHEDULE

LWA3A	25w LED	No	No	25	CEC Default	1	No	25	<input type="checkbox"/>	<input type="checkbox"/>
LWA	17w LED	No	No	17	CEC Default	2	No	34	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES 819										

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(3) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.6(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls

01	02	03
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector
Required > 10,000 SF	Whole Building Auto Time Switch	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)(1)	Field Inspector
								<input type="checkbox"/> Pass <input type="checkbox"/> Fail

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting; Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2)
Plan Sheet Showing Daylit Zones:

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-12-21 11:01:37
Schema Version: rev 20200601

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF
Kitchen	Kitchen/ Food Preparation Area	0.95	127	120.6	No
Office	Office 250 square feet or less	0.7	137	95.9	No
Lounge	Lounge Breakroom or Waiting Area	0.65	406	263.9	No
Gym	Exercise/Fitness Center/GymnasiumArea	0.5	319	159.5	No
Storage	Warehouse	0.6	233	139.8	No
Restroom	Restrooms	0.65	50	32.5	No
Vestibule	Corridor Area	0.6	103	61.8	No
TOTALS:			1,375	874	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-12-21 11:01:37
Schema Version: rev 20200601

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-4
CERTIFICATE OF COMPLIANCE
Project Name: The Legacy Renovation | Report Page: (Page 5 of 7)
Project Address: 655 L Street | Date Prepared: 12/21/2021

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE
Project Name: The Legacy Renovation | Report Page: (Page 6 of 7)
Project Address: 655 L Street | Date Prepared: 12/21/2021

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-TI-01-E - Must be submitted for all buildings.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-TI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-TI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-TI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-TI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-12-21 11:01:37
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-4
CERTIFICATE OF COMPLIANCE
Project Name: The Legacy Renovation | Report Page: (Page 7 of 7)
Project Address: 655 L Street | Date Prepared: 12/21/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

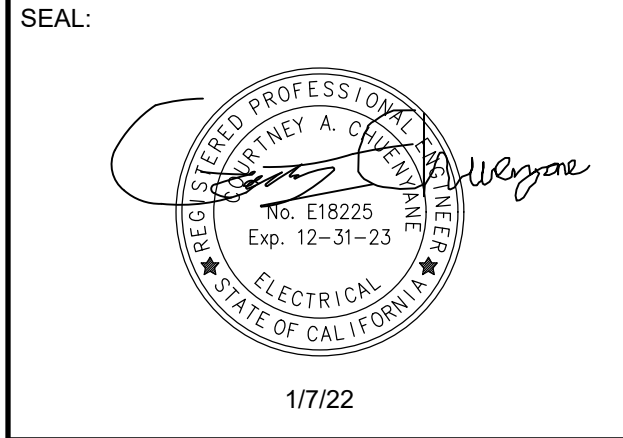
- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

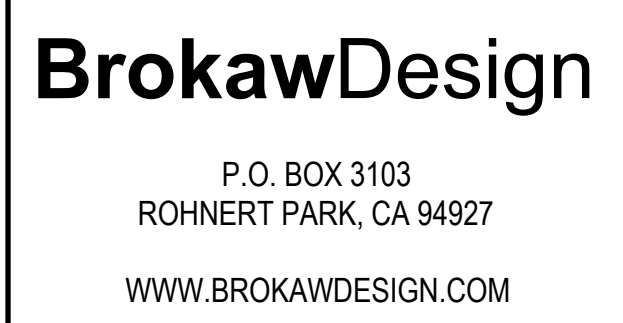
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-12-21 11:01:37
Schema Version: rev 20200601

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:



PROJECT:

THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA.
95531

SHEET NAME:

T24 LIGHTING COMPLIANCE

ISSUE DATE: 1/7/22
PREPARATION AND REVIEW
DRAWN BY: MOB
DESIGNER: MOB
PROJ MGR:
PEER REVIEW: CAC
SHEET NUMBER:

E801

ANCHORAGE & BRACING NOTES

M/E/P Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapter 13, 26 and 30.

- All permanent equipment and components.
- Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
- Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

- Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25, and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP MD PP E - Option 1: Detailed on the approved drawings with project specific notes and details.

MP MD PP E - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) # _____.

GENERAL FIRE ALARM NOTES

- FINAL FIRE ALARM TEST SHALL BE MADE WITH THE INSPECTOR OF RECORD. THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH AS TESTING WHEN ABLE.
- UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATERTIGHT FITTINGS. (CEC 110-11 AND 300-6).
- FIRE ALARM DEVICE MOUNTING HEIGHTS:
 - PULL STATION: 48" TO CENTER LINE OF DEVICE ABOVE FINISHED FLOOR. (CEC 907.4.2).
 - HORN INTERIOR: BETWEEN 80" TO 96" TO TOP OF DEVICE ABOVE FINISHED FLOOR, NOT LESS THAN 6" FROM CEILING. (NFPA 72-7.4.7.1).
 - WALL MOUNTED STROBE OR HORN/STROBE: 80" TO BOTTOM OF DEVICE LENS TO +96" TO TOP OF DEVICE LENS ABOVE FINISH FLOOR, BUT NOT LESS THAN 6" FROM CEILING. (NFPA 72-7.5.4.1).
- AUDIBLE FIRE ALARM SYSTEM LEVEL SHALL BE AT LEAST 15dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS. (NFPA 72 SEC (i.e. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 dBA PLUS 15 dBA EQUAL 60dBA MINIMUM ALARM TONE REQUIRED).
- THE OPERATION OF ANY INITIATION DEVICE SHALL AUTOMATICALLY SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS GIVING APPROVED INFORMATION AND DIRECTIONS FOR A GENERAL OR STAGED EVACUATION PER CBC 907.5.2.2.
- APPLICABLE CODES: CBC, NFPA EDITIONS RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION.
- STROBES SHALL BE SYNCHRONIZED AND FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND, NOR BE LESS THAN ONE FLASH EVERY SECOND. (NFPA 72).
- FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (NFPA 72 SEC 4.5.2 & FIGURE 4.5.1).
- POWER SERVICE TO THE FACP, REMOTE POWER SUPPLIES, AND CENTRAL STATION AUTO DIALER SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". (NFPA SEC 4.4.1.4).
- AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE.
- PROVIDE A NEW FULLY ADDRESSABLE FIRE ALARM SYSTEM AND EMERGENCY VOICE ALARM COMMUNICATIONS SYSTEM. THE NEW SYSTEM ADDITIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, POWER SUPPLY(S), TERMINAL CABINETS, OUTLETS, DEVICES AND WIRING FOR THE PROJECT AS SHOWN.
- MONITOR THE EMERGENCY VOICE AND COMMUNICATIONS SYSTEM FOR TROUBLE CONDITIONS.
- ALL CABLING BETWEEN BUILDINGS SHALL BE CONTINUOUS AND WITHOUT SPLICES.
- FIRE ALARM CABLING RUN ABOVE CEILING SHALL BE HUNG ON J-HOOKS AT 10'-0" CENTERS.
- PROVIDE ENT PATHWAYS WITHIN WALLS TO TO WALL DEVICE LOCATIONS AND ABOVE WALLS TO ACCESSIBLE CEILING SPACE.
- ALL BATTERIES SHALL BE MARKED WITH MONTH AND YEAR OF MANUFACTURE (NFPA 72 10.6.10.1.1).

FIRE ALARM SYSTEM MATRIX & SEQUENCE OF OPERATIONS

	ANNUNCIATE DEVICE TYPE & ZONE AT FACP	ACTIVATE SPEAKERS & STROBES THROUGHOUT ENTIRE COMPLEX	ANNUNCIATE TROUBLE CONDITION AT FACP	ANNUNCIATE DEVICE TYPE & ZONE AT ANNUNCIATOR	ANNUNCIATE SUPERVISORY COND. AT FACP & ANNUNCIATOR	ANNUNCIATE TROUBLE CONDITION AT ANNUNCIATOR	SEND ALARM SIGNAL TO CENTRAL MONITORING STATION	SEND SUPERVISORY SIGNAL TO CENTRAL MONITORING STATION	SEND TROUBLE SIGNAL TO CENTRAL MONITORING STATION	SHUTDOWN ASSOCIATED FAN & FSD
MANUAL PULL STATION	●	●		●			●			
SMOKE DETECTOR	●	●		●			●			
DUCT DETECTOR	●	●		●						●
HEAT DETECTOR	●	●		●			●			
SYSTEM TROUBLE			●			●			●	
COMMUNICATION FAILURE			●			●			●	
OPENS OR SHORTS			●			●			●	
GROUND FAULTS			●			●			●	
FIRE SPRINKLER FLOW SWITCH	●	●		●			●			
FIRE SPRINKLER TAMPER SWITCH	●		●	●	●				●	

ELECTRICAL SHEET INDEX

- FA001 FIRE ALARM LEGEND AND ABBREVIATIONS
- FA101 FIRE ALARM PLAN FA SITE
- FA102 FIRE ALARM PLANS - BLDG 1
- FA103 FIRE ALARM PLANS - BLDG 2
- FA401 FIRE ALARM PARTIAL PLANS
- FA601 FIRE ALARM DIAGRAMS
- FA-702 FIRE ALARM CALCULATIONS

FIRE ALARM

- (B) (R) BEAM DETECTOR AND REFLECTOR - WALL MOUNTED
- (D) DUCT DETECTOR (PROVIDED BY MECHANICAL, MONITORED BY FA)
- (1) AC HEAT DETECTOR - ABOVE CEILING MOUNTED, HIGH TEMPERATURE TYPE
- (1) HEAT DETECTOR - CEILING MOUNTED
- (M) MONITOR MODULE
- (P) PULL STATION - WALL MOUNTED
- (S) SMOKE DETECTOR - CEILING MOUNTED
- (SC) COMBO SMOKE/CARBON MONOXIDE DETECTOR - CEILING MOUNTED
- (TI) DOOR HOLD
- (C) CONTROL MODULE
- (R) RELAY MODULE
- (SP) SPEAKER - WALL MOUNTED
- (SB) SPEAKER - CEILING MOUNTED
- (SS) SPEAKER/STROBE - WALL MOUNTED
- (SCS) SPEAKER/STROBE - CEILING MOUNTED
- (ST) STROBE - WALL MOUNTED
- (SCS) STROBE - CEILING MOUNTED
- (SV) OS&Y VALVE
- (PIV) POST INDICATOR VALVE
- (T) TAMPER SWITCH
- (W) SPRINKLER WATER FLOW
- (EOL) END OF LINE RESISTOR
- (RB) RISER BELL
- (FI) FAULT ISOLATOR MODULE
- (FSD) FIRE SMOKE DAMPER (FSD AND DETECTOR PROVIDED BY MECHANICAL, MONITORED BY FA UNIT SHUT-DOWN BY MECHANICAL)

EQUIPMENT

- (FACP) FIRE ALARM CONTROL PANEL
- (FAAP) FIRE ALARM ANNUNCIATOR PANEL
- (FAEP) FIRE ALARM NAC EXPANDER POWER SUPPLY
- (FATC) FIRE ALARM TERMINAL CABINET
- (EVACS) EMERGENCY VOICE AND COMMUNICATIONS SYSTEM
- (EVACA) EMERGENCY VOICE AND COMMUNICATIONS SYSTEM AMPLIFIER

CIRCUITING

- ELECTRICAL CIRCUIT - CONCEALED
- - - - ELECTRICAL CIRCUIT - EXPOSED
- - - - - ELECTRICAL CIRCUIT - UNDER FLOOR, GROUND OR SLAB
- ELECTRICAL CIRCUIT - HOME RUN
- ELECTRICAL CIRCUIT - STUB OUT
- ELECTRICAL CIRCUIT - STUB DOWN
- ELECTRICAL CIRCUIT - STUB UP
- ELECTRICAL CIRCUIT - COMPLETE CONNECTION OF EQUIPMENT OR DEVICE

MISCELLANEOUS

- (XX) DEMO KEYED NOTE TAG
- (X) ELECTRICAL EQUIPMENT TAG
- (1) KEYED NOTE TAG
- (X) MECHANICAL EQUIPMENT TAG
- (Δ) REVISION DELTA
- (X-FA) DETAIL REFERENCE
- (○) JUNCTION BOX - WALL MOUNTED +18" A.F.F.
- (○) JUNCTION BOX - WALL MOUNTED (NOTED MONITORING)
- (□) JUNCTION BOX - FLOOR MOUNTED
- (◇) JUNCTION BOX - CEILING MOUNTED

FIRE ALARM SCOPE OF WORK

- TERMINATE EACH NOTIFICATION LOOP TO FIRE ALARM PANEL, BOOSTER PANEL, OR EVACS PANEL AS SHOWN ON PLANS AND DIAGRAMS.
- TERMINATE EACH INITIATION LOOP AT THE FIRE ALARM CONTROL PANEL AS SHOWN ON PLANS AND DIAGRAMS.
- PROVIDE A NEW FULLY ADDRESSABLE FIRE ALARM SYSTEM AND EMERGENCY VOICE ALARM COMMUNICATIONS SYSTEM. THE NEW SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, POWER SUPPLY(S), TERMINAL CABINETS, OUTLETS, DEVICES AND WIRING FOR THE PROJECT AS SHOWN.

SEQUENCE OF OPERATIONS

- ACTIVATION OF ANY INITIATION DEVICE WILL PLACE THE FIRE ALARM CONTROL PANEL IN ALARM MODE AND WILL ACTIVATE ALL NOTIFICATION APPLIANCES. THE FIRE ALARM CONTROL PANEL SHALL DISPLAY THE ZONE (NON-ADDRESSABLE) OR DEVICE (ADDRESSABLE) OF THE ACTIVATED INITIATION DEVICE(S).
- UPON ALARM CONDITION, AUTO-DIALER TO NOTIFY THE OFF-SITE MONITORING STATION, AND AUTHORIZED SCHOOL PERSONNEL SHALL NOTIFY THE FIRE DEPARTMENT AND INITIATE EVACUATION OF STUDENTS AND FACULTY AS PER SCHOOL'S EVACUATION PLAN.
- WHEN THE PANEL IS IN ALARM CONDITION, THE NOTIFICATION APPLIANCES MAY BE DEACTIVATED ("SILENCED") AT THE FIRE ALARM CONTROL PANEL. ACTIVATION OF ANOTHER INITIATION DEVICE WILL PLACE THE CONTROL PANEL BACK IN ALARM CONDITION AND WILL AGAIN ACTIVATE ALL NOTIFICATION APPLIANCES.
- FAILURE OF THE FIRE ALARM SYSTEM COMPONENTS, WIRING OR POWER SUPPLY SHALL PLACE THE FIRE ALARM CONTROL PANEL IN TROUBLE CONDITION, RESULTING IN AN AUDIBLE AND VISUAL (LED) ALARM AT THE FIRE ALARM CONTROL PANEL ONLY. THE AUDIBLE ALARM MAY BE SILENCED AT THE CONTROL PANEL, BUT THE VISUAL ALARM WILL REMAIN ACTIVE UNTIL THE FAILED CONDITIONS ARE CORRECTED AND CLEARED.
- UPON TROUBLE CONDITION, AUTO-DIALER TO NOTIFY THE OFF-SITE MONITORING STATION, AND AUTHORIZED SCHOOL PERSONNEL SHALL NOTIFY THE AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITIONS.

ABBREVIATIONS

A	AMPERES	HVAC	HEATING, VENTILATION & AIR-COND.
AC	ALTERNATING CURRENT	IG	ISOLATED GROUND
A.F.F.	ABOVE FINISHED FLOOR	IMC	INTERMEDIATE METAL CONDUIT
AFG	ABOVE FINISHED GRADE	JB	JUNCTION BOX
AHJ	AUTHORITY HAVING JURISDICTION	KV	KILO VOLT
AHU	AIR HANDLING UNIT	KVA	KILO VOLT-AMP
AL	ALUMINUM	KW	KILO WATT
ANN	ANNUNCIATOR	LV	LOW VOLTAGE
APPROX	APPROXIMATE	MAX	MAXIMUM
ARF	ABOVE RAISED FLOOR	MC	METAL-CLAD
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
BAT	BATTERY	MFR, MFR	MANUFACTURER
BFG	BELOW FINISH GRADE	MIC	MICROPHONE
C	CENTERLINE	MIN	MINIMUM
C, CND	CONDUIT	MDP	MAIN DISTRIBUTION BOARD
CB	CIRCUIT BREAKER	MSB	MAIN SWITCHBOARD
CKT	CIRCUIT	MTD	MOUNTED
CO	CONDUIT ONLY	(N)	NEW
COMM	COMMUNICATIONS	N, NEUT	NEUTRAL
CONST	CONSTRUCTION	N/A	NOT APPLICABLE
CONT	CONTINUED	NC	NORMALLY CLOSED
CP	CONTROL PANEL	NIC	NOT IN CONTRACT
CPT	CONTROL POWER TRANSFORMER	NO	NORMALLY OPEN
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CJ	COPPER	OC	ON CENTER
DC	DIRECT CURRENT	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
(E)	EXISTING	PB	PULL BOX, ELECTRICAL
EA	EACH	REQD	REQUIRED
EF	EXHAUST FAN	RGS, RSG	RIGID GALVANIZED STEEL
EMT	ELECTRICAL METALLIC CONDUIT	RTU	REMOTE TERMINAL UNIT
ENT	ELECTRICAL NON-METALLIC CONDUIT	SP	SPACE, SPARE
EP	EXPLOSION PROOF	SS	STAINLESS STEEL
EQ	EQUAL	SW	SWITCH
EVACS	EMERGENCY VOICE & COMMUNICATIONS SYSTEM	SWBD	SWITCHBOARD
(F)	FUTURE	SWGR	SWITCHGEAR
FA	FIRE ALARM	TP	TAMPER PROOF
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FC	FAN COIL	UF	UNDER FLOOR
G, GND	GROUND	UG	UNDER GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	U.O.N.	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTER	V	VOLT
HV	HIGH VOLTAGE	VA	VOLT-AMP
		W/O	WITHOUT
		WP	WEATHER PROOF
		XFMR	TRANSFORMER

APPLICABLE CODES & STANDARDS REFERENCES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*

- 2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
- 2019 California Building Code (CBC), Part 2, Title 24 CCR
 - (2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
- 2019 California Electrical Code (CEC), Part 3, Title 24 CCR
 - (2017 National Electrical Code and 2019 California Amendments)
- 2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
 - (2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
- 2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
 - (2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
- 2019 California Energy Code (CEC), Part 6, Title 24 CCR
- 2019 California Fire Code (CFC), Part 5, Title 24 CCR
 - (2018 International Fire Code and 2019 California Amendments)
- 2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
 - (2018 International Existing Building Code and 2019 California Amendments)
- 2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
- 2019 California Referenced Standards Code, Part 12, Title 24 CCR
- Title 19 CCR, Public Safety, State Fire Marshal Regulations
- 2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2019 CBC Part 2 Ch 35)
- Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

- NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2016 Edition
- NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended).....2016 Edition
- NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2017 Edition
- NFPA 17A - Standard for Wet Chemical Extinguishing Systems.....2017 Edition
- NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2016 Edition
- NFPA 22 - Standard for Water Tanks for Private Fire Protection.....2013 Edition
- NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended).....2016 Edition
- NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2016 Edition
- NFPA 80 - Standard for Fire Doors and Other Opening Protectives.....2016 Edition
- NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended).....2015 Edition
- UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.....2005 (R2010)
- UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.....2003 Edition
- UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.....1999 Edition
- UL 1971 - Standard for Signaling Devices for the Hearing Impaired.....2002 (R2010)
- ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.....2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

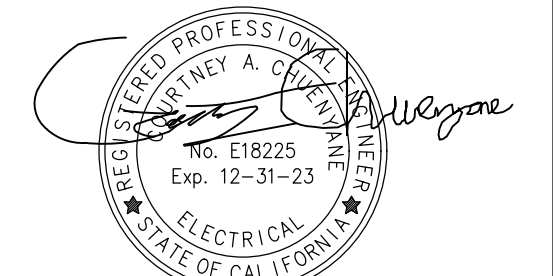
See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:



1/7/22

CONSULTANT:

BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927
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PROJECT:

THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA.
95531

SHEET NAME:

FIRE ALARM LEGEND AND ABBREVIATIONS

ISSUE DATE: 1/7/22

PREPARATION AND REVIEW

DRAWN BY: MOB

DESIGNER: MOB

PROJ MGR: MOB

PEER REVIEW: CAC

SHEET NUMBER:

FA001

A

1.01- RELATED DOCUMENTS
A. The General Conditions, Supplementary Conditions and Division 1 apply to the electrical work.

1.02 - WORK INCLUDES
A. Work included in this section: All materials, labor, equipment, services, and incidentals necessary to install the Electrical Work as shown on the drawings and as specified hereinafter, including, but not limited to the following:
1. Distribution system, including panelboards, and feeders.
2. Branch circuit wiring, wiring devices and connections to all equipment requiring electrical service.
3. Lighting fixtures with hangers, anchors and supports. Lighting Controls.
4. Electrical equipment grounding system.
5. Mechanical equipment power and control connections as stated in the mechanical and electrical specifications and as shown on the mechanical and electrical drawings.
6. Sleeves, inserts and blocking in cast concrete as required for work in this section.
7. All required incidental work, such as excavating and backfilling, roof flashing, and testing.
8. Any other electrical work as might reasonably be implied as required, even though not specifically mentioned herein or shown on the drawings.

B

1.03 - INCORPORATED DOCUMENTS
A. Requirements of the General Conditions, Supplementary Conditions, and Division 1. Sections apply to all work in this Section, unless modified herein.
B. Published specifications, standard tests or recommended methods of trade, industry or government organizations apply to work of this Section where cited by abbreviations noted below, unless modified herein.
1. National Electrical Code, latest edition, (NEC).
2. NEMA standards
3. Underwriters' Laboratories, Inc. (UL).
4. Local Utility Company regulations.
5. National Fire Protection Association (NFPA)
6. California Administrative Code (CAC)
C. All State and Municipal Codes and Ordinances recognized by the Authority Having Jurisdiction, including but not limited to:
1. Latest Edition - BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE C.C.R.
2. Latest Edition - CALIFORNIA BUILDING CODE (CBR), PART 2, TITLE 24 C.C.R.
3. Latest Edition - CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
4. Latest Edition - CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
5. Latest Edition - CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 C.C.R.
6. Latest Edition - CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
7. Latest Edition - CALIFORNIA REFERENCE STANDARDS, PART 12, TITLE 24 C.C.R.
8. Latest Edition - TITLE 19 C.C.R.

C

1.05 - QUALITY ASSURANCE
A. Conformance:
1. All work shall conform to the applicable requirements of Article 1.03 above.
2. The Contractor shall notify the Architect, prior to submission of bid, about any part of the design which fails to comply with abovementioned requirements.
3. If after contract is awarded, minor changes and additions are required by aforementioned authorities, even though such work is not shown on drawings or covered in specifications, they shall be included at Contractor's expense.

B. Coordination:
1. The Contractor shall become familiar with the conditions at the job site, and with the drawings and specifications and plan the installation of the electrical work to conform with the existing conditions and that shown and specified so as to provide the best possible assembly of the combined work of all trades.
2. The Contractor shall work out in advance all "tight" conditions, involving all trades and if found necessary, supplementary drawings shall be prepared by this Contractor, for the Architect's approval, before work proceeds in these areas. No additional costs will be incurred for work which must be relocated due to conflicts with the work of other trades.

D

1.06 - SUBMITTALS
A. Product Data:
1. Comply with the General Provisions of the Contract.
2. Within 15 days after award of the Contract, submit:
a. Complete material list of all items proposed to be furnished and installed under this Section, including but not limited to the following items: Circuit breakers, lighting fixtures, conduit, devices, enclosures, etc.
b. Manufacturers' specifications and other data required to demonstrate compliance with the specified requirements.
c. Manufacturers' recommended installation procedures which, when approved by the Architect, shall become the basis for inspecting and accepting or rejecting actual installation procedures used on the work.
3. Shop Drawings: Furnish shop drawings and/or equipment cuts for the following:
a. Light Fixtures
b. Switchboard
c. Panelboards
d. Disconnect Switches
e. Lamps
f. Ballasts
g. Lighting Control System
h. Switches, receptacles and faceplates.
4. Test Reports:
a. Factory Tests where indicated for specific equipment.
b. Field Tests: Performance tests as specified for specific equipment.
c. When series rated circuit breakers are used, provide a letter from the manufacturer of the equipment confirming that U.L. series rating exists for all protective devices. State the available fault current from the Utility Company and indicate that the overcurrent devices exceed the available fault current at the respective point of protection.

E

1.07- MATERIALS
A. Materials of the same type or classification, used for the same purpose, shall be the product of the same manufacturer.

1.08 - ACCEPTABLE MANUFACTURERS
A. Materials shall be of make mentioned elsewhere in this specification. All materials shall be the best of their several kinds, perfectly new and approved by the Underwriters' Laboratories.
B. Where material, equipment, apparatus or other products are specified by manufacturer, brand name, type or catalog number, such designation is to establish standards of desired quality, style and utility and shall be the basis of the bid. Materials so specified shall be furnished under the contract unless changed by written approval of the Owner's Representative. Where two or more designations are listed, choice shall be optional with this Contractor, but this Contractor must submit his choice for final approval.

1.09 - DELIVERY, STORAGE AND HANDLING
A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
B. Delivery and Storage: Deliver all materials to the job site in their original containers with all labels intact and legible at time of use. Store in strict accordance with approved manufacturers' recommendations.
C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.
D. This Contractor shall personally, or through an authorized representative, check all materials upon receipt at jobsite for conformance with approved shop drawings and/or plans and specifications.

1.10 - SCHEDULING/SEQUENCING
A. Place orders for all equipment in time to prevent any delay in construction schedule or completion of project. If any materials or equipment are not ordered in time, additional charges made by equipment manufacturers to complete their equipment in time to meet the construction schedule, together with any special handling charges, shall be borne by this Contractor.

1.11 - REQUIREMENTS
A. The contract drawings indicate the extent and general arrangements of the conduit wiring systems, etc. If any departures from the contract drawings are deemed necessary by the Contractor, details of

such departures and the reasons therefore shall be submitted as soon as practicable, and within 10 days after award of the electrical contract.

B. UNLESS MATERIAL LIST AND DATA IS RECEIVED AS A COMPLETE AND ALL INCLUSIVE SUBMITTAL WITHIN THE STIPULATED TIME ALL ITEMS SHALL BE PROVIDED AS SPECIFIED-WITH NO DEVIATIONS PERMITTED.

C. Any and all additional costs incurred by the substitution of electrical material or equipment, or installation thereof, whether architectural, structural, plumbing, mechanical or electrical, shall be borne by the Contractor under this section.

1.12 - IDENTIFICATION
A. Switchboards, feeder circuit breakers in switchboards, panels, disconnect switches, motor starters and motor disconnect switches, cabinets, and other apparatus used for the operation of, or control of circuits, appliances or equipment, shall be properly identified by means of engraved laminated plastic descriptive nameplates mounted on apparatus using stainless steel screws. Nameplates shall have white letters with black background and be submitted to the Architect for approval. Carholders in any form are not acceptable.
B. Each branch circuit of panelboards to have a permanently fixed number with directory, mounted under celluloid on inside of cabinet door, showing circuit numbers, room number feed and typewritten description of equipment supplied by breakers.

PART 2 - PRODUCTS:

2.01 - GENERAL
A. Materials shall be new, packed in original containers, installed and turned over to the Owner free of defects.
B. Materials shall bear Underwriters' Laboratory label.
C. Furnish equipment and materials for any one system by same manufacturer.

2.02 - MATERIALS
A. Conduit
1. Conduit shall be delivered to the site of construction in the original bundles. Each length shall bear the label of the National Board of Fire Underwriters. All conduit subjected to rough usage while on the job, before installation, shall be removed from the premises upon notice.
2. Raceway and boxes located as indicated on drawings and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.
3. Properties:
a. Rigid Steel: Hot dipped galvanized with completely watertight fittings.
• Couplings and elbows in soil or under membrane to be 1/2 tape wrapped with Scotch #50 tape and threaded ends coated with red lead prior to installation of couplings
b. "Schedule 40" PVC shall be provided with code size minimum bare No. 12 ground wire
• "Schedule 40 or 80" elbows
• "Schedule 40 or 80" or RGS stub-ups.
c. Flexible metal type:
• Flexible metal type provide with code size (minimum No. 12) bare ground wire in all flexible conduit.
4. Installation:
a. Install no more than the equivalent of three 90 degree bends between boxes or outlets
b. Use flush mounting outlet boxes in finished areas.
• Do not install flush mounting boxes back-to-back in walls.
• Provide minimum 6-inch separation between adjacent boxes.
• Provide minimum 24-inch separation in acoustic rated walls.
• Secure flush mounting box to interior wall and partition studs.
• Accurately position to allow for surface finish thickness.
• Install flush mounting box without damaging wall insulation or reducing its effectiveness.
c. Support boxes independently of conduits.
d. Conduit Bends - Long Radius.
e. Provide conduit seals at all concrete slab penetrations.

5. Installation Location:
a. Outdoor Locations:
• Above Grade: Provide RGS conduit tape wrapped.
• In Soil: Provide Sched 40 or 80 PVC with Sched 40 or 80 PVC elbows. Tape wrapped RGS may be used for stub-up.
• In Concrete: Provide hot dipped galvanized rigid steel or Sched 40 PVC Conduit.
• Motor / Flexible Connection: WP Flexible metal conduit.
• Watertight and corrosion resistant fittings, couplings, boxes, etc.
b. Indoor Locations:
• Exposed Dry Locations: Provide EMT or RGS.
• Concealed Dry Locations: Provide electrical metallic tubing unless otherwise noted. MC cable may be used as described below under Power and Wiring.
c. Locations subject to Corrosive Atmosphere: Provide PVC coated, galvanized rigid steel or intermediate steel conduit. Provide PVC coated cast or sheet metal boxes.
d. Hazardous Locations (Per NEC Article 500): Galvanized rigid steel conduit. Cast iron boxes with threaded hubs for conduit entry. Conduit seals.

D. Power Wire and Cable:
1. Installation:
a. Feeders from Building Switchboard to Individual Apartment Complex:
• Design based on Aluminum SER Cable with the assumption the contractor can route cabling to have no contact with insulation.
• If contractor believes contact with insulation will occur contractor shall state in bid as separate line item cost of design modification including increase or modified wire size and/or wire type.
• May substitute MC Cable (AL or CU) or THHN Copper cable in conduit.
b. Indoor Feeders from Building Switchboard to House Panel:
• Shall be Conduit with THHN or THWN Cu Conductors.
• Sized as shown on Single Line Diagram.
c. House Panel Branch Circuits
• Shall be Conduit with THHN or THWN Cu Conductors.
• Minimum #12 AWG for power wiring.
d. Apartment Branch Circuits
• Copper Conductors
• MC Cable, Romex or Conduit and Wire are acceptable.
• Min #14 AWG for power wiring. See Panel schedules for wire sizes.
e. Connections to devices from "through, feed" branch circuit conductors to be made with pigtail, with no interruption of the branch circuit conductors.
f. Neutral conductor identified by white outer covering braid, with different tracers of "EZ" numbering tags used where more than one neutral conductor is contained in a single unit.
g. Neatly arrange and "marlin" wired in panels and other equipment with "T and B Ty-rap" or approved equal plastic tie strapping.
h. Label each wire of each electrical system in each pull box, junction box, outlet box, terminal cabinet, and panelboard in which it appears with "EZ" numbering tags.

2. Properties:
a. Copper 90% conductivity. Solid copper for conductors smaller than No. 10 AWG. Stranded copper for conductors No. 10 AWG and larger. No conductors smaller than No. 12 AWG, except as noted.
b. Insulation type: #12 to #10 AWG: THWN for wet locations and THHN for dry locations. #10 through #4/0 AWG: XHHW (55 Mils). 250MCM and larger: XHHW (65 Mils).
c. All wire and cable shall bear the Underwriters' Label, brought to the job in unbroken packages; wire color coded as follows:

Voltage	Phasing	A Phase	B Phase	C Phase	Neutral
120/240	1p3w	Black	Red	-	White
120/208	3p 4w	Black	Red	Blue	White
208	3w	Black	Red	Blue	-
277/480	3p 4w	Brown	Orange	Yellow	White
480	3w	Brown	Orange	Yellow	-

E. Grounding:
1. Provide and install grounding system as noted on the Drawings.
2. Provide and install a grounding electrode system on all separate buildings.
3. Grounding electrode conductor: bare stranded copper type, #1/0 minimum or per NEC Table 250.66.
4. Install ground wires in rigid conduit. Provide physical protection for grounding electrode and bonding

conductors in accordance with NEC 250-64. Grounding conductors shall be in conduit and installed in accordance with NEC 250-64(e).
5. ALL UNLESS MATERIAL LIST AND DATA IS RECEIVED AS A COMPLETE AND ALL INCLUSIVE SUBMITTAL WITHIN THE STIPULATED TIME ALL ITEMS SHALL BE PROVIDED AS SPECIFIED-WITH NO DEVIATIONS PERMITTED.
6. Use approved pressure type solderless connector or use fusion welding for all connections to and bonding of grounding electrode system. All connections shall be visible, readily accessible for testing purposes.
7. Terminate grounding conduits at equipment with ground bushing, with ground wire connected through bushing.
8. Provide No. 12 stranded (green) THHN conductor from outlet box to ground screw of every receptacle.
9. Ground all isolated sections of metallic raceways.
10. Provide #12 minimum stranded (green) THHN conductor sized per NEC, or as noted, connected continuously throughout branch circuit for all circuits, bonded to panel ground bus, and to all electrical devices and equipment enclosures.
11. Provide an unspliced grounding electrode conductor to the grounding electrode system
12. Where the transformer supplying the service is located outside the building, at least one additional grounding connection shall be made from the grounded service conductor to a grounded electrode at the transformer.
13. After installation, test system, using the three-point fall of potential method only. Record results and submit to Architect for approval. If resistance to ground exceeds three (3) ohms, install additional ground rods, bonded and interconnected to grounding electrode system. Provide additional grounding until resistance is less than three (3) ohms.

F. Conduit Fittings:
1. Metal Conduit Fittings shall conform to the requirements of UL 514B where this standard applies. Galvanized steel fittings shall be used with steel conduit. Threaded fittings shall engage a minimum of five threads made up wrench-tight and be compatible with conduit. EMT fittings shall be compression type. UL approved for rain tight applications and setscrew type with insulated throat for indoor applications.
2. Liquid-Tight Flexible Conduit Fittings shall be galvanized steel, T&B 53XX series insulated throat, and shall bear the UL label. Die-cast malleable fittings are not acceptable.
3. Liquid-Tight Flexible Metal Conduit Fittings shall be galvanized steel.
4. Non-Metallic Conduit Fittings shall be of same material and strength characteristics as the conduit and shall be solvent welded as recommended by manufacturer. End bells shall be plastic, high impact, tapered to fit. Where conduit transition from non-metallic to metallic is required, provide non-metallic female "termina" adapter. Non-metallic "male" adapters are not acceptable.

G. Outlet Boxes and Junction Boxes:
1. Galvanized one piece steel knockout type, unless otherwise noted, sizes as required for conditions at each outlet or as noted, not smaller than 2 inches wide by 4 inches high, ganged where multiple switch locations are indicated.
2. Outlet boxes located on exterior to be flush type with cast aluminum gasketed covers; spring lid with lockable covers for receptacles.
3. All connectors from conduit to junction or outlet boxes shall have integral insulated throats.
4. Outlet boxes for telephone and cable TV outlets shall be 4" square minimum with single gang plaster rings.
5. Concrete pull boxes and hand holes for power, lighting, controls and telecommunications shall be pre-cast concrete boxes, sized as indicated on the drawing or per NEC requirements. Pull boxes shall be equipped with a concrete cover for non traffic rated locations OR cast-in frame, galvanized steel, adjustable, high impact traffic cover (H-20 load rated), lifting lugs, and conduit knock-outs. Knockout location and sizes shall be coordinated with the duct bank for each location. Cover shall be engraved with the words - - "POWER", "LIGHTING", "CONTROLS", "COMM/DATA", "TELEPHONE" or similar as applicable.

H. Circuit Breakers:
4. General: Circuit breakers shall be molded case rated for 240 volts, multiple or single pole and amperage rating as shown on the drawings, bolt on, manually operated with "de-ion" arc chutes.
5. Main circuit breaker shall be rated to interrupt the available short circuit current from utility company requirements.
6. Distribution circuit breakers shall be U.L. series rated with the main circuit breaker.
7. Where mechanical equipment is U.L. listed for overcurrent protection with fuses or HACR type circuit breakers, provide fuses where a fused switch is shown. Where the overcurrent protection is a circuit breaker provide HACR, (HACR means Heating, Air-Conditioning and Refrigeration) type.
8. Provide AFCI circuit breakers in all bedrooms.
9. Provide tamper resistant receptacles for all 125V, 15 and 20A receptacles less than 5.6ft AFF. Tamper resistance receptacles are not required where the receptacle is dedicated to a specific appliance
10. Provide GFCI rated circuit breakers in all locations within 6-feet of water.

PART 3 - EXECUTION
3.01 - INSPECTION
A. Examine the areas and conditions under which the work of this Section will be installed. Correct conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 - PREPARATION
A. Drawings
1. The general arrangement and location of wiring and equipment is shown on the electrical drawings and shall be installed in accordance therewith, except for minor changes required by conflict with the work of other trades.
2. Control wiring is generally not shown on the plans. Contractor shall refer to control diagrams and provide and install all wiring and raceways required to make all interconnections.
3. All dimensions, together with locations of doors, partitions, etc. are to be taken from the Architectural Drawings, verified at site by this Contractor.
4. Maintain "as-constructed" Record Drawings at all times, showing the exact location of concealed conduits and feeders installed under this contract, and actual numbering of each circuit. Upon completion of work and before acceptance can be considered, this Contractor must forward to the Owner's Representative corrected Record Drawings in Autocad format indicating the electrical work as installed.

3.03 - FIELD QUALITY CONTROL
A. All workmanship shall be first class and carried out in a manner satisfactory to and approved by the Architect.
B. This Contractor shall personally, or through an authorized and competent representative, constantly supervise the work and so far as possible keep the same foreman and workmen on the job throughout.

3.04 - INSTALLATION/APPLICATION/ERECTION
A. Cutting, repairing and structural reinforcing for the installation of this work shall be done by the General Contractor in conformance with the Architect's requirements.
B. Provide and place in form work all conduit, inserts and sleeves in time to prevent any delay in the concrete work.

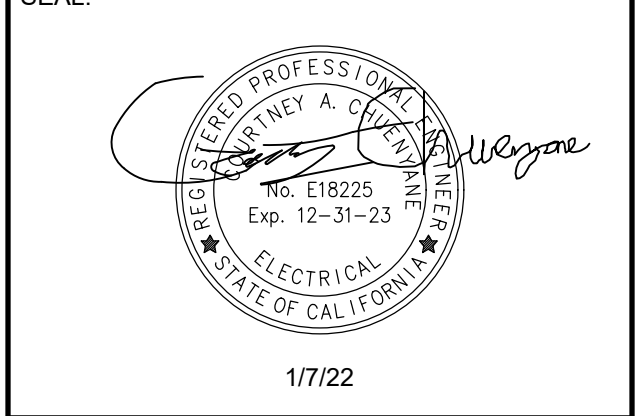
3.05 - ADJUSTING AND CLEANING
A. Main switchboard, panelboards and all other electrical equipment not "finish painted" under other sections shall be touched up where finished surface is marred or damaged. Panelboards in finished areas shall be painted to match wall.
B. All equipment, lighting fixtures, etc., shall be left in clean condition, with all shipping and otherwise unnecessary labels removed therefrom.
C. Excavate and trench as necessary for the electrical installation, and when the work has been installed, inspected and approved, backfill all excavations with imported sandy soil in maximum 8" (eight inch) layers, moisten and machine tamp to 95% compaction, and restore the ground and/or paving or floor surfaces to their original condition. Comply with requirements of Division 2.

3.06 - SCHEDULES

A. Coordination: Coordinate installation of electrical items with the schedule for other work to prevent unnecessary delays in the total Work.

3.07 - TESTING
A. Grounding System:
1. All ground connections shall be checked and the entire system shall be checked for continuity. The resistance of the ground system shall be measured using a 3 point fall_of_potential method. The maximum ground resistance shall be three ohms. If the measured ground resistance exceeds three ohms, additional ground rods shall be installed until a value of three ohms or less is obtained.
2. Ground tests shall meet the requirements of the National Electric Code.
B. Lighting Systems:
1. The interior and exterior lighting systems shall be checked for proper local controls and operation of entire installation, including the operation of the low voltage lighting control system.
C. Power Distribution System:
1. Tests: Test main switchboard, distribution boards, and panelboards for grounds and shorts with mains disconnected from feeders, branch circuits connected and circuit breakers closed, all fixtures in place and permanently connected and grounding jumper to neutral lifted and with all wall switches closed.
2. Test each individual circuit at each panelboard with equipment connected for proper operation. Inspect the interior of each panel.
3. Check verification of color coding, tagging, numbering, and splice make up.
4. Verify that all conductors associated with each circuit are in same conduit.
5. Demonstrate that all lights, jacks, switches, outlets, and equipment operate satisfactorily and as called for.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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665 L STREET
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SHEET NAME:

FIRE ALARM SHEET SPECIFICATION

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC

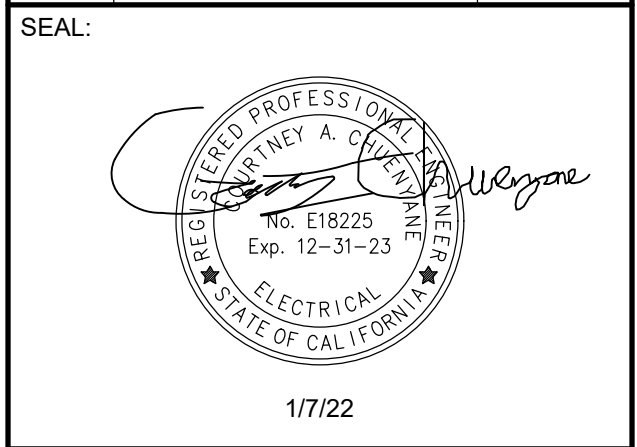
SHEET NUMBER:

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SHEET NOTES - SITE FIRE ALARM

- A. ALL WIRING INSTALLED UNDERGROUND SHALL BE RATED FOR UNDERGROUND USE.
- B. ALL EXTERIOR EQUIPMENT SHALL BE WEATHER-PROOF OR NEMA 3R RATED.
- C. PROVIDE LABELING ON ALL SITE CABLING TO INDICATE BUILDING SERVED AND BUILDING FEEDING.
- D. ALL CABLING BETWEEN BUILDINGS SHALL BE CONTINUOUS AND WITHOUT SPLICES.
- E. PROVIDE NEW 120VOLT DEVICE POWER WHERE REQUIRED FOR ROOM CO2 AND SMOKE DETECTORS.
- F. PROVIDE NEW WIRING FOR ALL INITIATION AND NOTIFICATION DEVICES PER THE MANUFACTURERS REQUIREMENTS.
- G. THE FIRE ALARM DRAWINGS ARE A DEFERRED SUBMITTAL AND PROVIDED FOR CONTRACTOR SCOPE AND BIDDING PURPOSES. THE CONTRACTOR SHALL SUBMIT TO THE AHJ FOR FINAL PERMIT.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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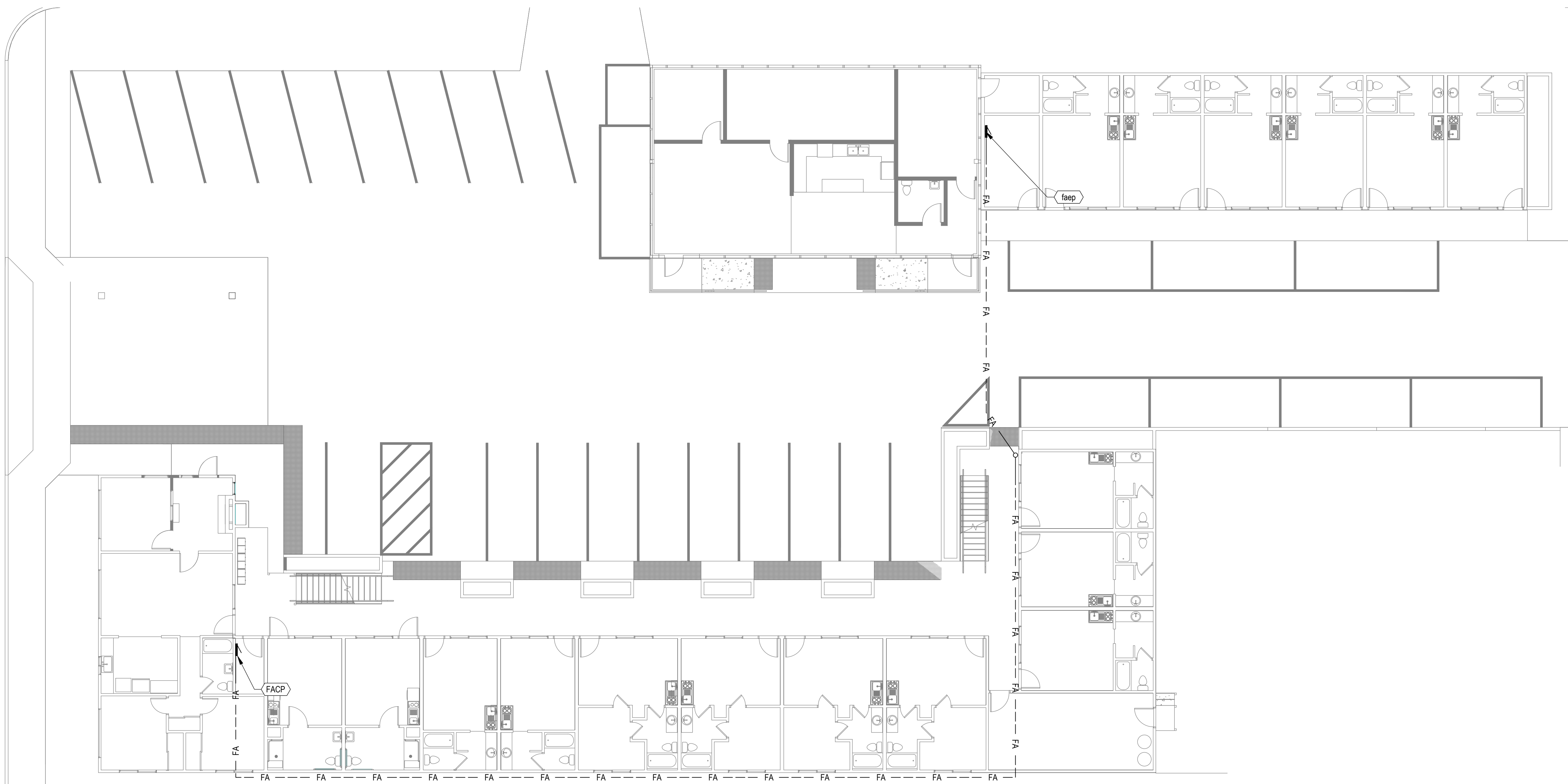
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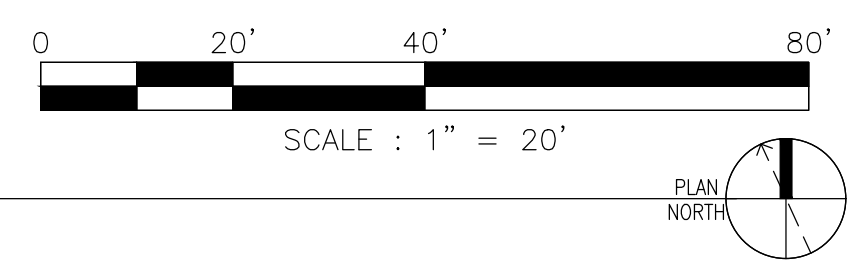
SHEET NAME:
FIRE ALARM SITE PLAN

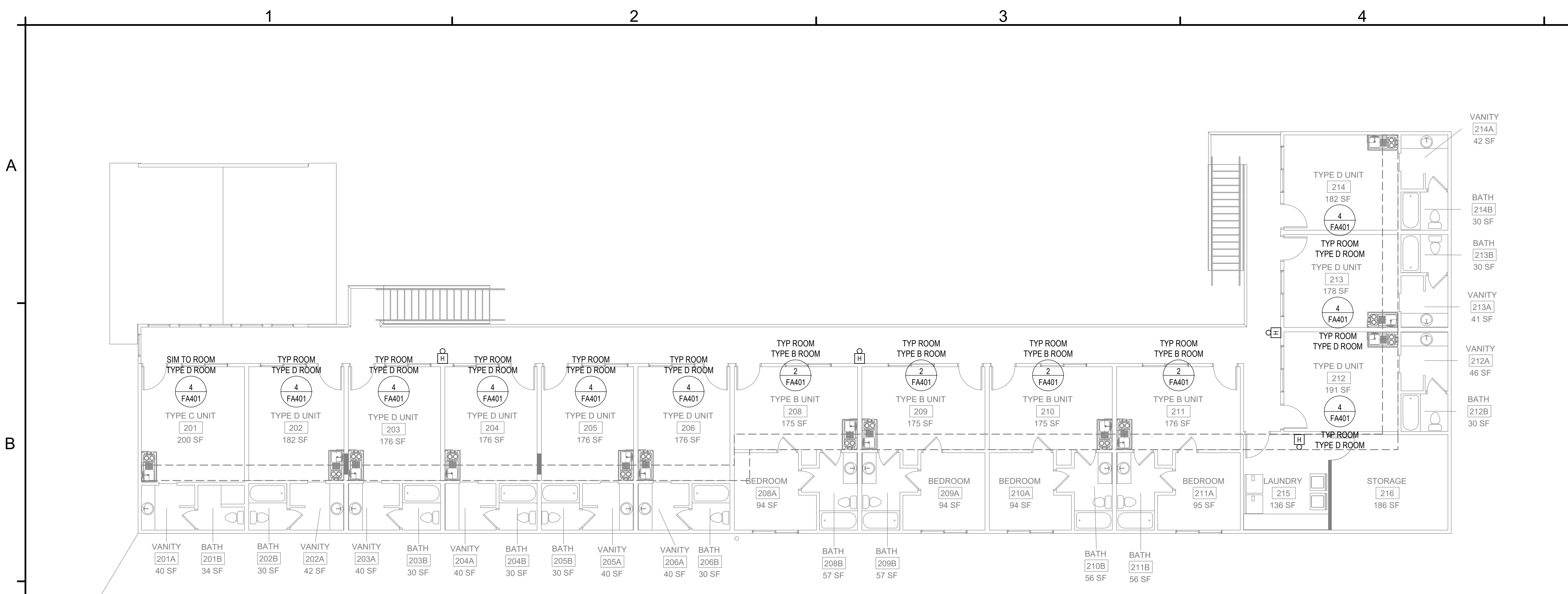
ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC

SHEET NUMBER:
FA101



1 ELECTRICAL SITE PLAN
 SCALE: 1" = 20'



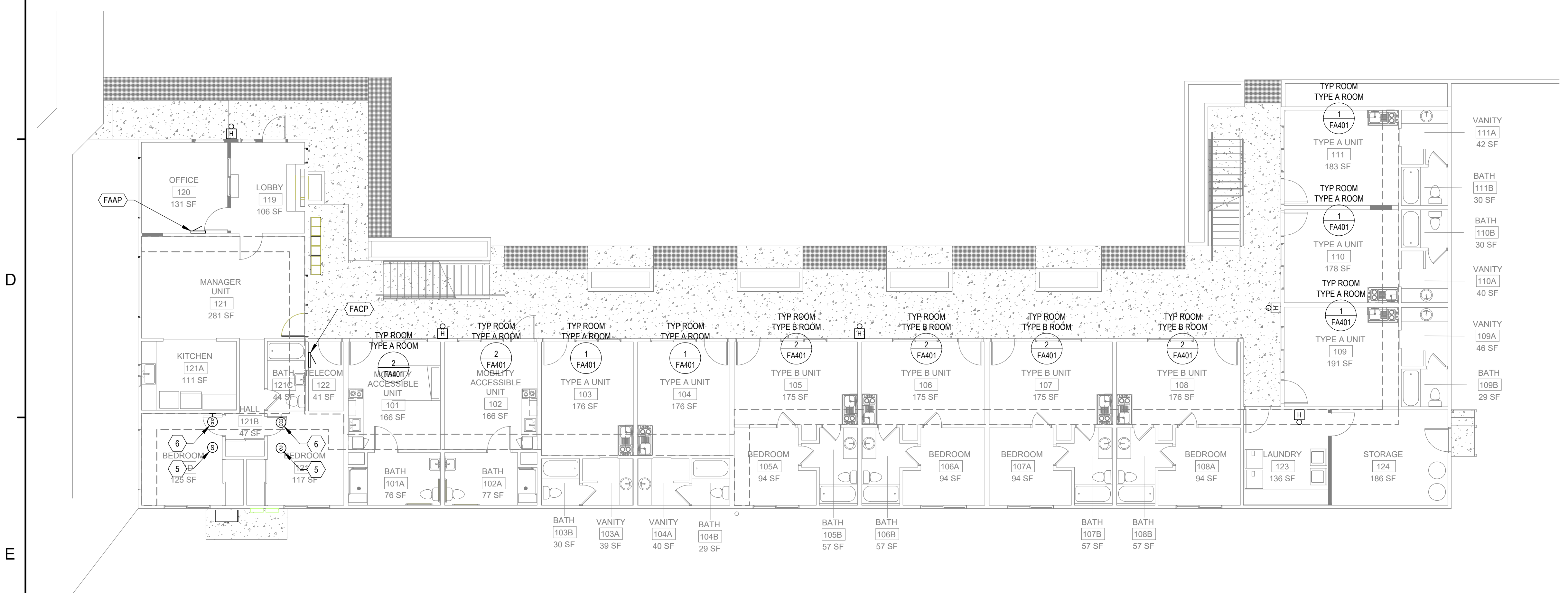


2 FIRE ALARM - BLDG 1 SECOND FLOOR - NEW
SCALE: 1/8" = 1'-0"

FIRE ALARM WIRING LEGEND	
TYPE	DESCRIPTION
A	2#16 AWG SHIELDED TWISTED FOR DATA
B	2#12 AWG SHIELDED STRANDED COPPER FOR SPEAKER & STROBE
C	2#14 AWG STRANDED COPPER FOR 24 VDC DOOR HOLDS
D	(3) 2 PR #16 AWG SHIELDED FOR REMOTE PAGING STATION
E	2#14 AWG SHIELDED TWISTED FOR DATA (SITE DISTRIBUTION)
F	TBD
G	TBD

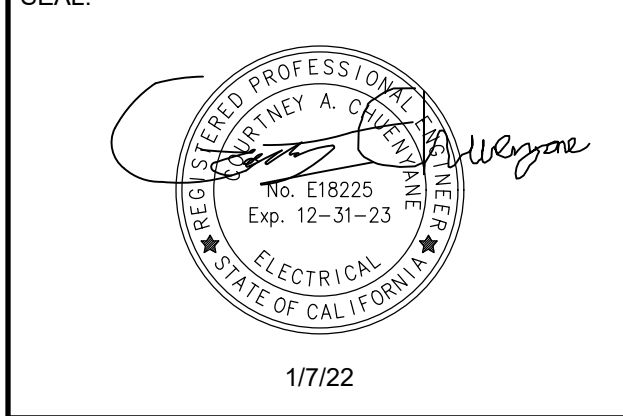
- SHEET NOTES - SITE FIRE ALARM**
- ALL WIRING INSTALLED UNDERGROUND SHALL BE RATED FOR UNDERGROUND USE.
 - ALL EXTERIOR EQUIPMENT SHALL BE WEATHER-PROOF OR NEMA 3R RATED.
 - PROVIDE LABELING ON ALL SITE CABLING TO INDICATE BUILDING SERVED AND BUILDING FEEDING.
 - ALL CABLING BETWEEN BUILDINGS SHALL BE CONTINUOUS AND WITHOUT SPLICES.
 - PROVIDE NEW 120VOLT DEVICE POWER WHERE REQUIRED FOR ROOM CO2 AND SMOKE DETECTORS.
 - PROVIDE NEW WIRING FOR ALL INITIATION AND NOTIFICATION DEVICES PER THE MANUFACTURERS REQUIREMENTS.
 - THE FIRE ALARM DRAWINGS ARE A DEFERRED SUBMITTAL AND PROVIDED FOR CONTRACTOR SCOPE AND BIDDING PURPOSES. THE CONTRACTOR SHALL SUBMIT TO THE AHJ FOR FINAL PERMIT.**

- KEYED NOTES - BUILDNG FIRE ALARM**
- PROVIDE DEDICATED 20A, 120VAC BRANCH CIRCUIT TO FIRE EQUIPMENT. THE CIRCUIT BREAKER SHALL BE COLORED RED. PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE.
 - PROVIDE FIRE ALARM RECORDS CABINET MOUNTED ADJACENT TO FIRE ALARM CONTROL PANEL.
 - PROVIDE SIGN INDICATING "FIRE ALARM CONTROL PANEL INSIDE".
 - SWITCHES AT FIRE SPRINKLER RISER, VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
 - PROVIDE SMOKE ALARMS IN THE FOLLOWING LOCATIONS: IN EACH BEDROOM, OUTSIDE EACH SLEEPING AREA ON EVERY LEVEL OF THE HOUSE. ON EACH LEVEL OF THE HOUSE, IN LIVING ROOM, DEN OR FAMILY ROOM OR NEAR THE STAIRWAY. SMOKE ALARMS SHALL BE AC POWERED AND INTERCONNECTED WITHIN EACH UNIT.
 - PROVIDE CARBON MONOXIDE (CO2) OUTSIDE EACH SLEEPING AREA. WITHIN EACH BEDROOM. ALARMS SHALL BE HARDWIRED, UL2034, 2075 LISTED, AND MEET ALL REQUIREMENTS OF CBC 915.
 - PROVIDE FA HORN CONNECTED TO THE BUILDING FACP.
 - IN ADA / HEARING IMPAIRED UNITS, PROVIDE VISUAL ALARMS IN BEDROOMS, BATHROOMS, AND LIVING AREAS.
 - REMOVE ALL EXISTING FIRE ALL DEVICES AND PROVIDE BLANK COVER PLATE FOR DEVICES NOT REPLACED.



1 FIRE ALARM - BLDG 1 FIRST FLOOR - NEW
SCALE: 1/8" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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SHEET NAME:
FIRE ALARM PLAN - BLDG 1

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

FA102

KEYED NOTES - BUILDING FIRE ALARM (X)

1. PROVIDE DEDICATED 20A, 120VAC BRANCH CIRCUIT TO FIRE EQUIPMENT. THE CIRCUIT BREAKER SHALL BE COLORED RED. PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE.
2. PROVIDE FIRE ALARM RECORDS CABINET MOUNTED ADJACENT TO FIRE ALARM CONTROL PANEL.
3. PROVIDE SIGN INDICATING "FIRE ALARM CONTROL PANEL INSIDE".
4. SWITCHES AT FIRE SPRINKLER RISER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
5. PROVIDE SMOKE ALARMS IN THE FOLLOWING LOCATIONS: IN EACH BEDROOM, OUTSIDE EACH SLEEPING AREA ON EVERY LEVEL OF THE HOUSE, ON EACH LEVEL OF THE HOUSE, IN LIVING ROOM, DEN OR FAMILY ROOM OR NEAR THE STAIRWAY. SMOKE ALARMS SHALL BE AC POWERED AND INTERCONNECTED WITHIN EACH UNIT.
6. PROVIDE CARBON MONOXIDE (CO2) OUTSIDE EACH SLEEPING AREA, WITHIN EACH BEDROOM. ALARMS SHALL BE HARDWIRED, UL2034, 2075 LISTED, AND MEET ALL REQUIREMENTS OF CBC 915.
7. PROVIDE FA HORN CONNECTED TO THE BUILDING FACP.
8. IN ADA / HEARING IMPAIRED UNITS, PROVIDE VISUAL ALARMS IN BEDROOMS, BATHROOMS, AND LIVING AREAS.
9. REMOVE ALL EXISTING FIRE ALL DEVICES AND PROVIDE BLANK COVER PLATE FOR DEVICES NOT REPLACED.

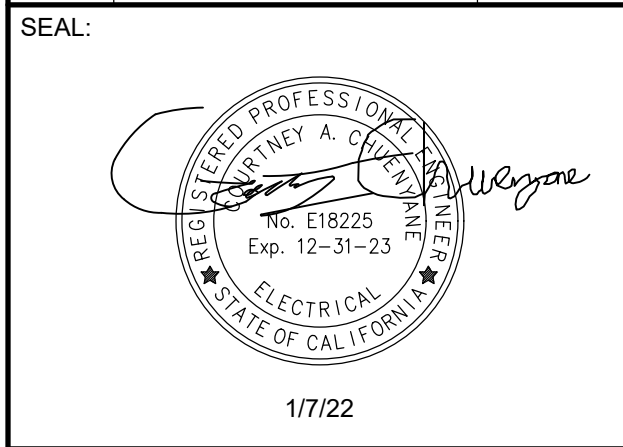
FIRE ALARM WIRING LEGEND

TYPE	DESCRIPTION
A	2#16 AWG SHIELDED TWISTED FOR DATA
B	2#12 AWG SHIELDED STRANDED COPPER FOR SPEAKER & STROBE
C	2#14 AWG STRANDED COPPER FOR 24 VDC DOOR HOLDS
D	(3) 2 PR #16 AWG SHIELDED FOR REMOTE PAGING STATION
E	2#14 AWG SHIELDED TWISTED FOR DATA (SITE DISTRIBUTION)
F	TBD
G	TBD

SHEET NOTES - SITE FIRE ALARM

- A. ALL WIRING INSTALLED UNDERGROUND SHALL BE RATED FOR UNDERGROUND USE.
- B. ALL EXTERIOR EQUIPMENT SHALL BE WEATHER-PROOF OR NEMA 3R RATED.
- C. PROVIDE LABELING ON ALL SITE CABLING TO INDICATE BUILDING SERVED AND BUILDING FEEDING.
- D. ALL CABLING BETWEEN BUILDINGS SHALL BE CONTINUOUS AND WITHOUT SPLICES.
- E. PROVIDE NEW 120VOLT DEVICE POWER WHERE REQUIRED FOR ROOM CO2 AND SMOKE DETECTORS.
- F. PROVIDE NEW WIRING FOR ALL INITIATION AND NOTIFICATION DEVICES PER THE MANUFACTURERS REQUIREMENTS.
- G. THE FIRE ALARM DRAWINGS ARE A DEFERRED SUBMITTAL AND PROVIDED FOR CONTRACTOR SCOPE AND BIDDING PURPOSES. THE CONTRACTOR SHALL SUBMIT TO THE AHJ FOR FINAL PERMIT.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

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WWW.BROKAWDESIGN.COM

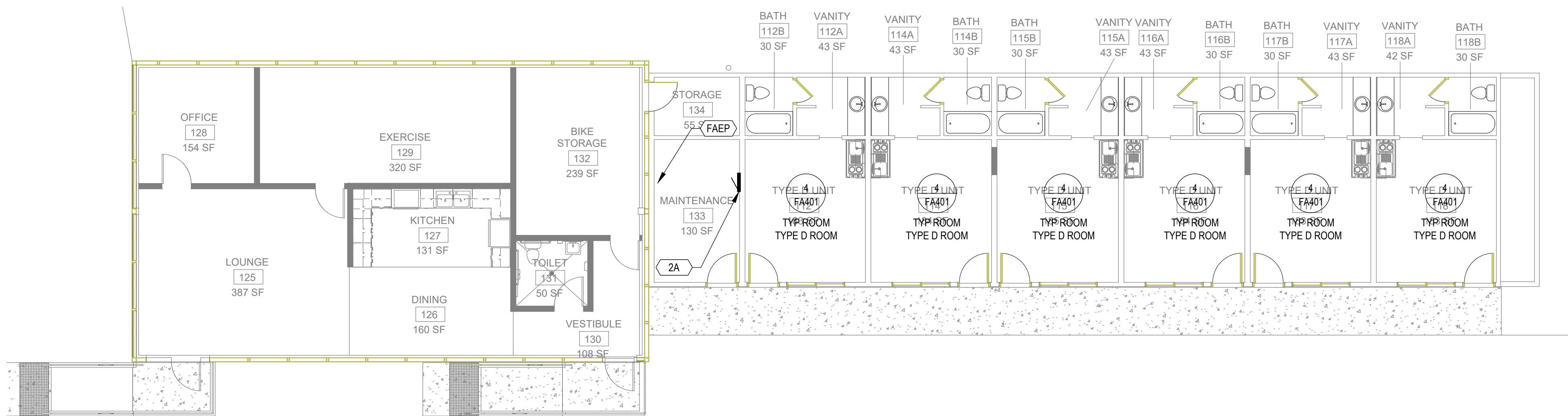
PROJECT:
THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA.
95531

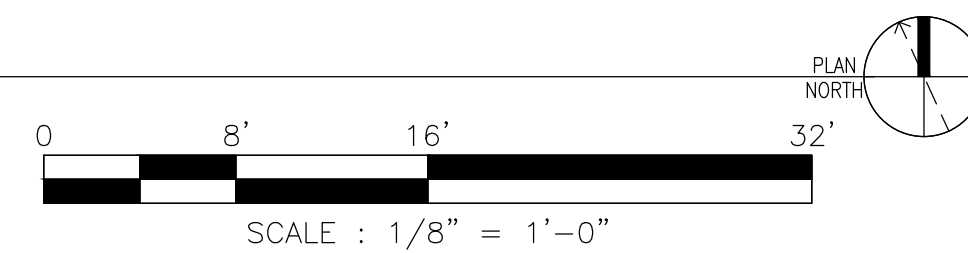
SHEET NAME:
FIRE ALARM PLAN - BLDG 2

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

E103



1 ELECTRICAL - BLDG 2 SECOND FLOOR - NEW
SCALE: 1/8" = 1'-0"



1

2

3

4

5

A

B

C

D

E

A

B

C

D

E

KEYED NOTES - BUILDING FIRE ALARM

1. PROVIDE DEDICATED 20A, 120VAC BRANCH CIRCUIT TO FIRE EQUIPMENT. THE CIRCUIT BREAKER SHALL BE COLORED RED. PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE.
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FIRE ALARM WIRING LEGEND

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F	TBD
G	TBD

SHEET NOTES - SITE FIRE ALARM

- A. ALL WIRING INSTALLED UNDERGROUND SHALL BE RATED FOR UNDERGROUND USE.
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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SEAL:

1/7/22

CONSULTANT:

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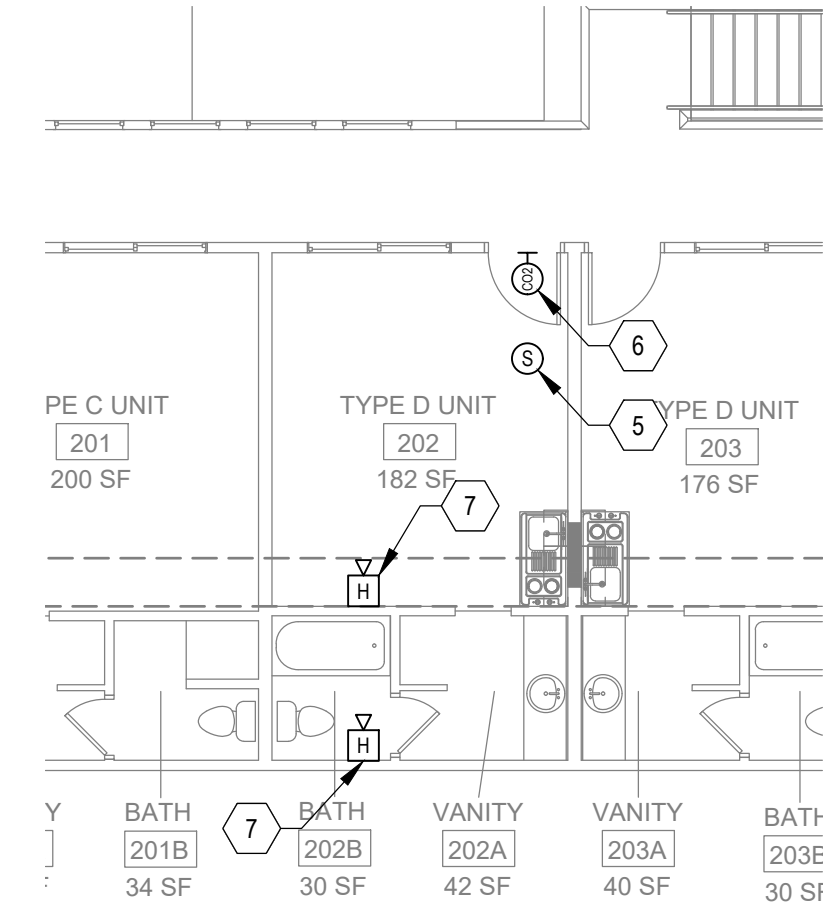
PROJECT:
THE LEGACY RENOVATION

 665 L STREET
 CRESCENT CITY, CA.
 95531

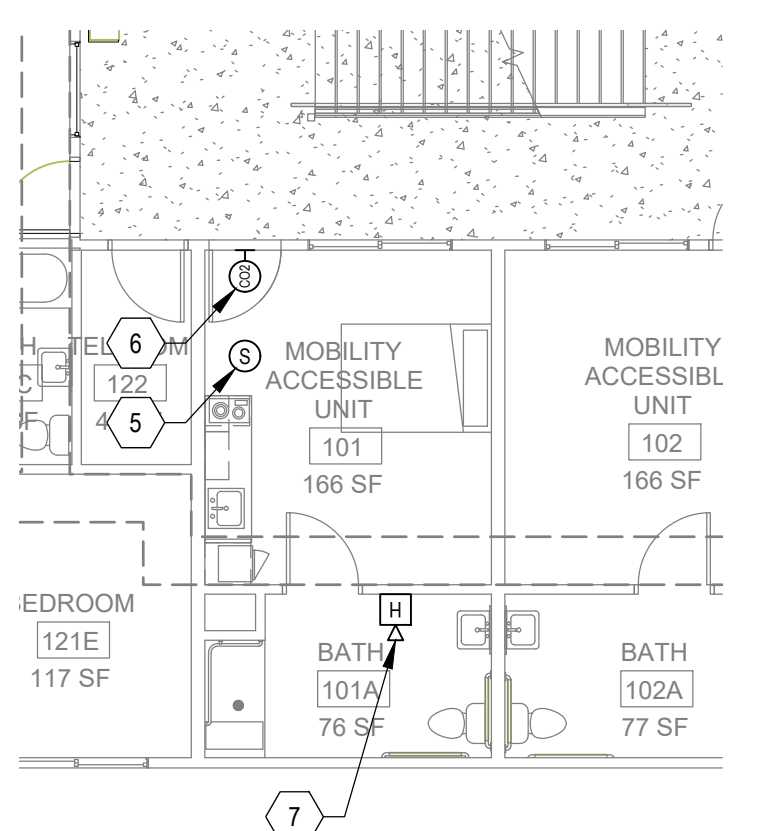
SHEET NAME:
FIRE ALARM PARTIAL PLANS

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC
SHEET NUMBER:	

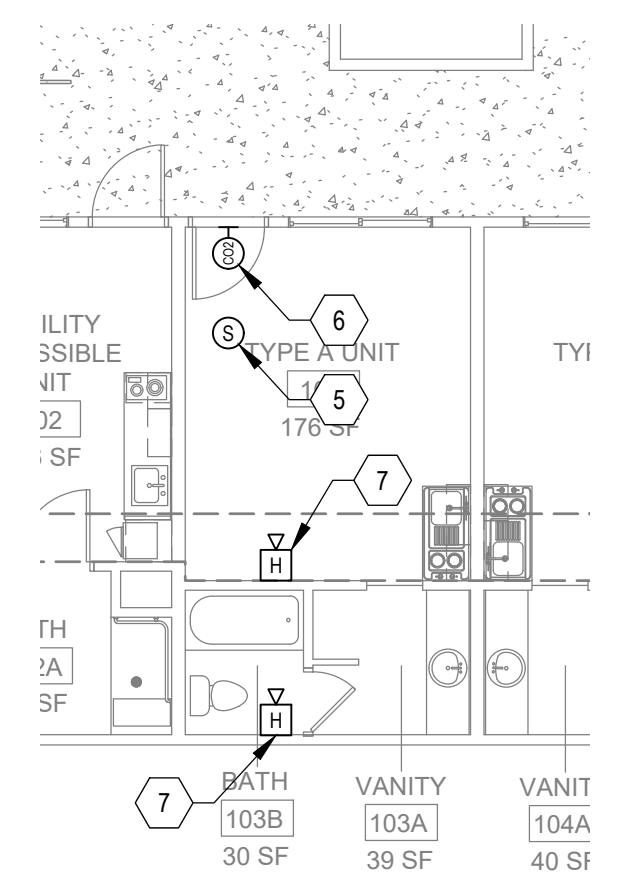
FA401



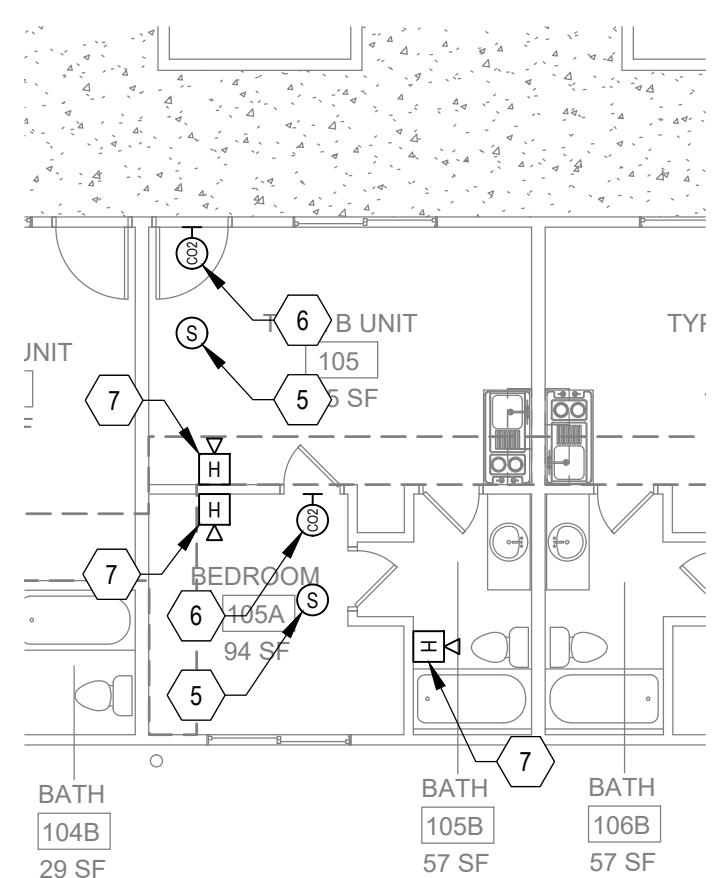
4 PARTIAL PLAN - D UNIT (C UNIT SIM)
 SCALE: 1/4" = 1'-0"



1 PARTIAL PLAN - ACCESSIBLE
 SCALE: 1/4" = 1'-0"



2 PARTIAL PLAN - A UNIT
 SCALE: 1/4" = 1'-0"



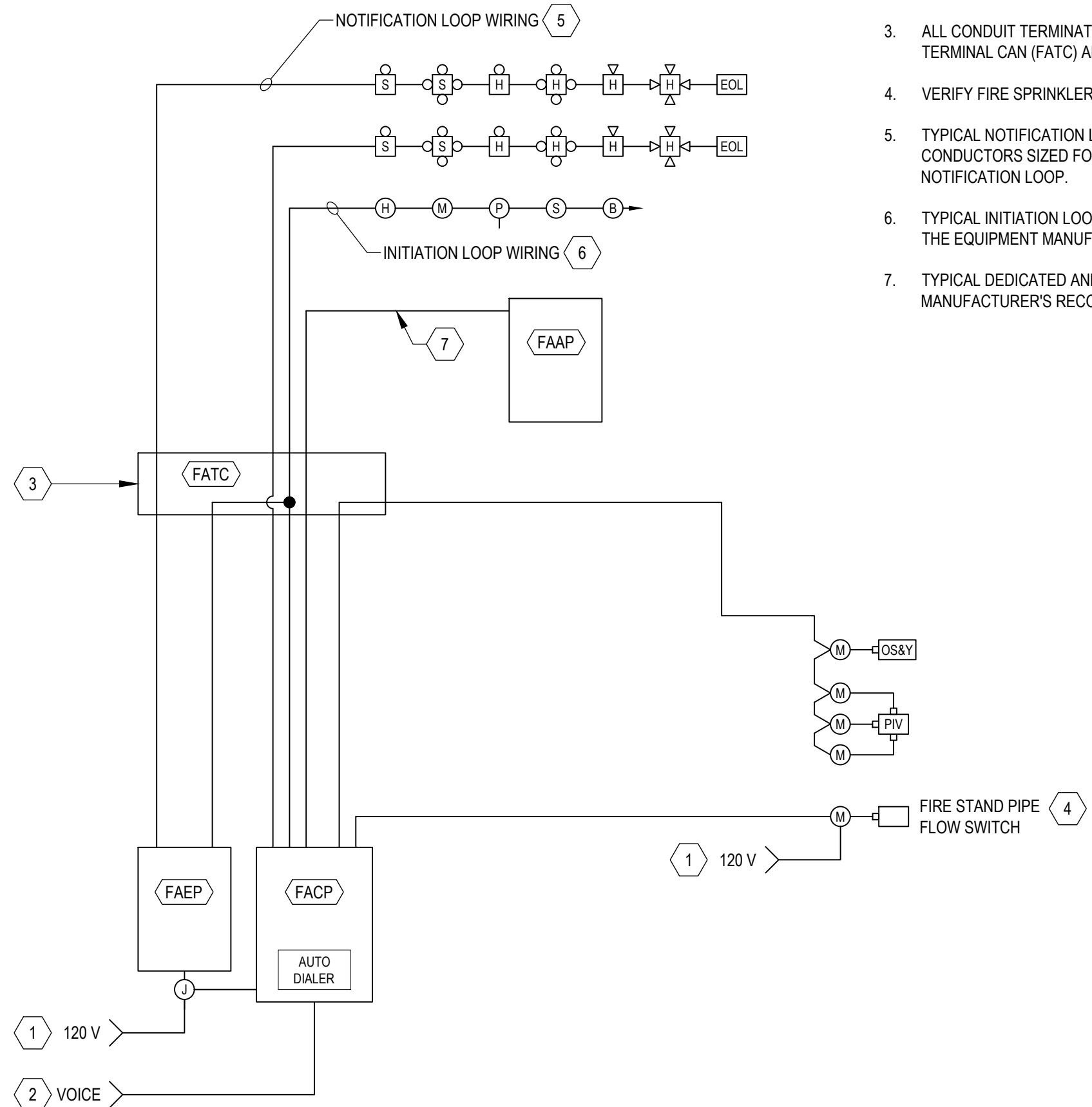
3 PARTIAL PLAN - B UNIT
 SCALE: 1/4" = 1'-0"

DETAIL KEYED NOTES

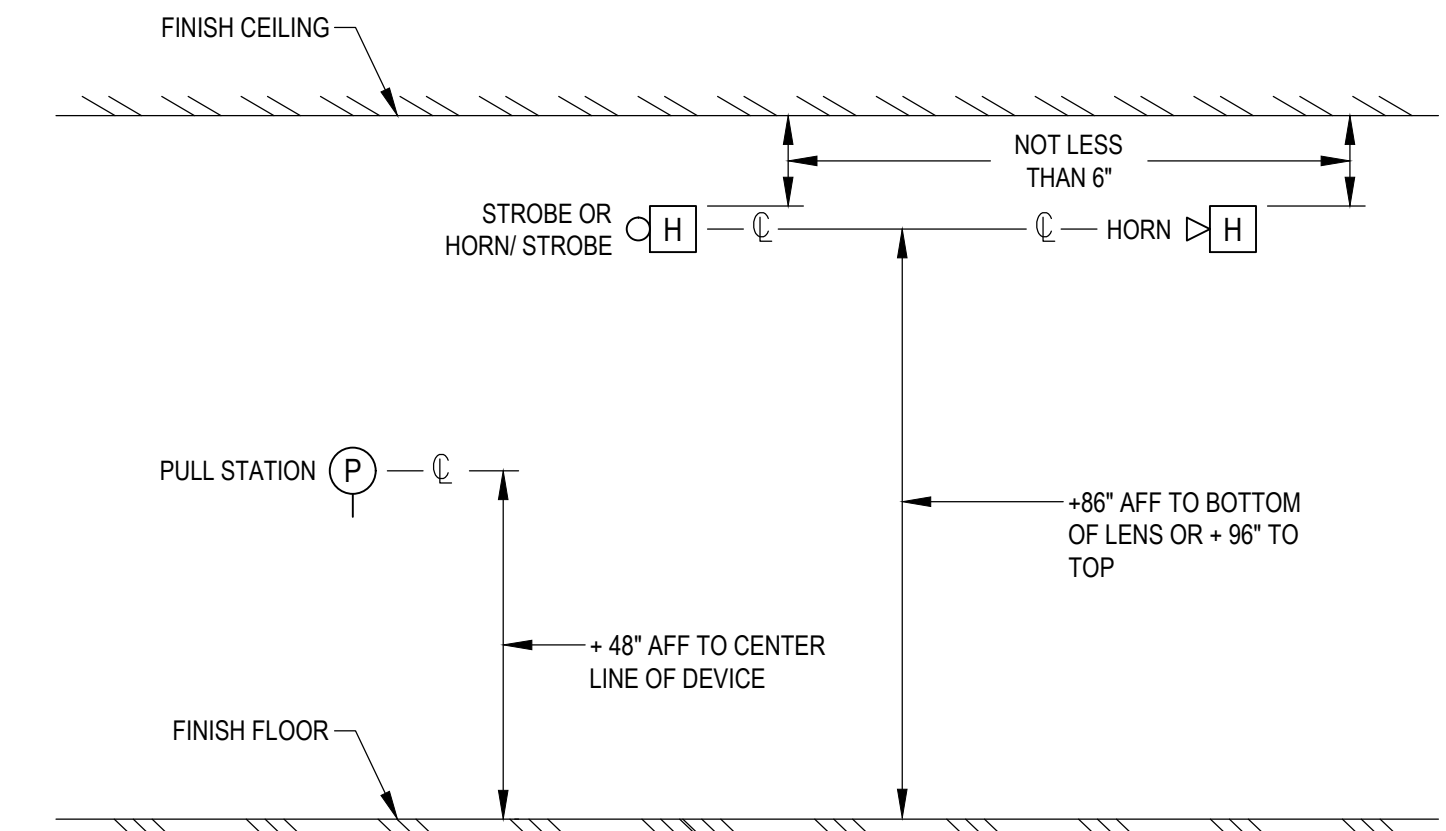
1. PROVIDE DEDICATED 20 AMP CIRCUIT WITH LOCKING CIRCUIT BREAKER.
2. PROVIDE COMPLETE CONNECTION FOR VOICE DIAL OUT LINE.
3. ALL CONDUIT TERMINATIONS AND SPLICING SHALL BE DONE IN A FIRE ALARM TERMINAL CAN (FATC) AND NOT WITHIN THE FACP OR FAEP.
4. VERIFY FIRE SPRINKLER STAND PIPE MONITOR AND POWER.
5. TYPICAL NOTIFICATION LOOP WIRING. PROVIDE THHN / THHN CU CONDUCTORS SIZED FOR A MAXIMUM VOLTAGE DROP OF 5%. DO NOT "T" TAP NOTIFICATION LOOP.
6. TYPICAL INITIATION LOOP WIRING. PROVIDE CONDUCTORS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
7. TYPICAL DEDICATED ANNUNCIATOR PANEL CONDUCTOR. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.

FIRE ALARM SYSTEM NOTES

- A. ALL NON CONCEALED FIRE ALARM SYSTEM WIRING SHALL BE IN 3/4" C MINIMUM.
- B. CONDUIT AND WIRING SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- C. SUBMITTALS
 1. PRODUCT DATA: COMPONENTS FOR SENSING, DETECTING, AND CONTROL, INCLUDING DIMENSIONS AND DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, AND FINISHES.
 2. SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR THE INTRUSION DETECTION SYSTEM.
 3. RACEWAY RISER DIAGRAMS: DETAIL RACEWAY RUNS REQUIRED FOR INTRUSION DETECTION. INCLUDE DESIGNATION OF DEVICES CONNECTED BY RACEWAY, RACEWAY TYPE AND SIZE, AND TYPE AND SIZE OF WIRE AND CABLE FILL FOR EACH RACEWAY RUN.
 4. BATTERY/UPS: SIZING CALCULATIONS.
 5. SITE AND FLOOR PLANS: INDICATE FINAL OUTLET AND DEVICE LOCATIONS, ROUTING OF RACEWAYS, AND CABLES INSIDE AND OUTSIDE THE BUILDING.
 6. DEVICE ADDRESS LIST WHEN SYSTEM IS ADDRESSABLE. COORDINATE WITH FINAL SYSTEM PROGRAMMING.
 7. SYSTEM WIRING DIAGRAMS: INCLUDE SYSTEM DIAGRAMS UNIQUE TO PROJECT. SHOW CONNECTIONS FOR ALL DEVICES, COMPONENTS, AND AUXILIARY EQUIPMENT. INCLUDE DIAGRAMS FOR EQUIPMENT AND FOR SYSTEM WITH ALL TERMINALS AND INTERCONNECTIONS IDENTIFIED.
 8. DETAILS OF SURGE-PROTECTION DEVICES AND THEIR INSTALLATION.
 9. SENSOR DETECTION PATTERNS AND ADJUSTMENT RANGES.
 10. DESIGN DATA: INCLUDE METHOD OF OPERATION AND SUPERVISION OF EACH COMPONENT AND EACH TYPE OF CIRCUIT. SHOW SEQUENCE OF OPERATIONS FOR MANUALLY AND AUTOMATICALLY INITIATED SYSTEM OR EQUIPMENT INPUTS. DESCRIPTION MUST COVER THIS SPECIFIC PROJECT; MANUFACTURER'S STANDARD DESCRIPTIONS FOR GENERIC SYSTEMS ARE UNACCEPTABLE.
 11. CONTRACTOR SHALL SUBMIT COMPLETE FIRE ALARM DRAWINGS INCLUDING VOLTAGE DROP AND BATTERY CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.
- D. NOTIFICATION CIRCUITS SHALL BE SYNCHRONIZED.
- E. NO "T" TAPPING ON SUPERVISED LOOPS.
- F. THE CONTRACTOR DESIGNING AND INSTALLING THE SYSTEM SHALL HAVE A MINIMUM 5 YEARS EXPERIENCE.



1 FIRE ALARM DESIGN BUILD SINGLE LINE DIAGRAM
SCALE: NONE



2 FIRE ALARM DEVICE MOUNTING
SCALE: NONE

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SEAL:

1/7/22

CONSULTANT:

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
THE LEGACY RENOVATION

665 L STREET
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95531

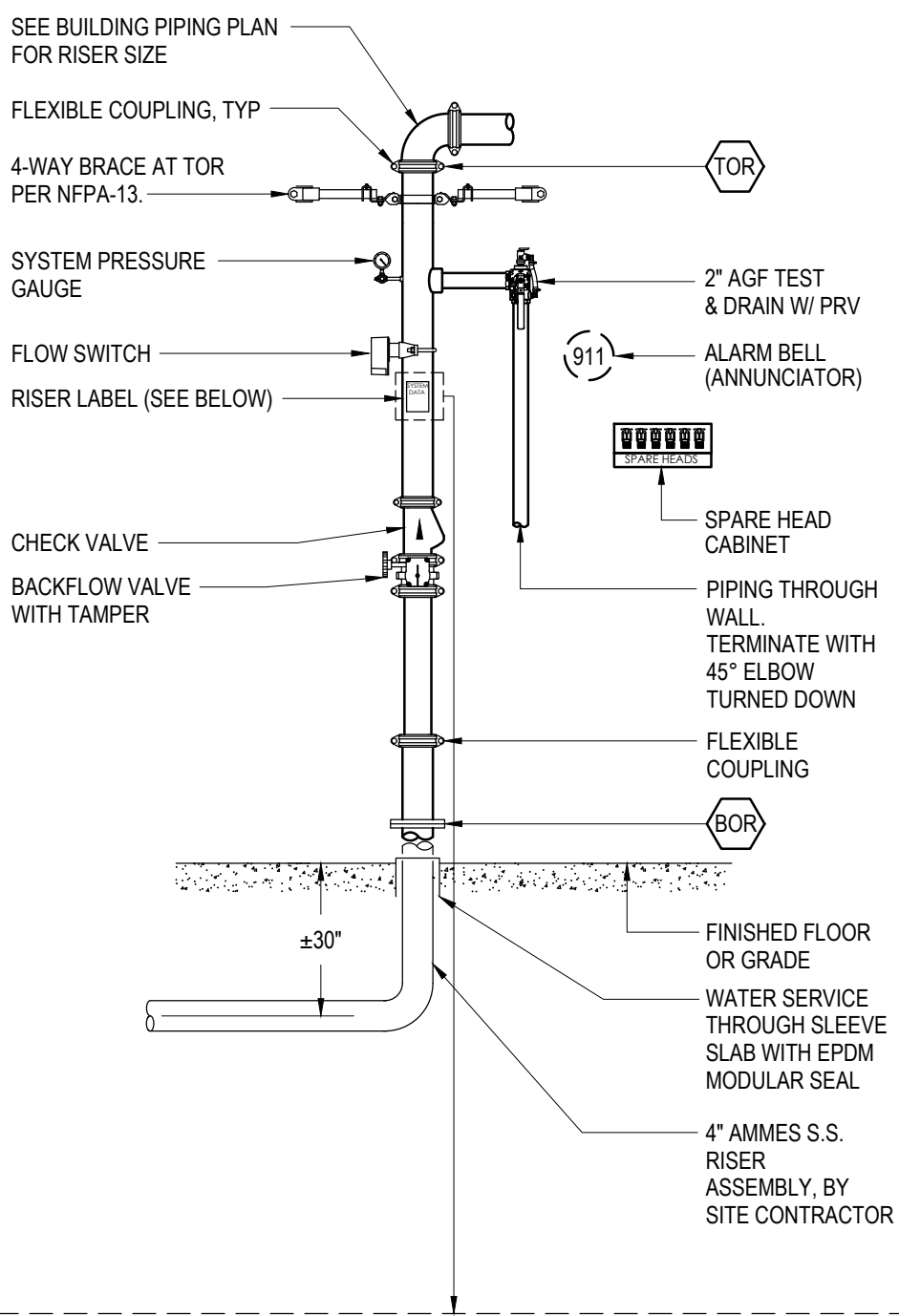
SHEET NAME:
FIRE ALARM DIAGRAMS

ISSUE DATE:	1/7/22
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	
PEER REVIEW:	CAC

SHEET NUMBER:

FA601

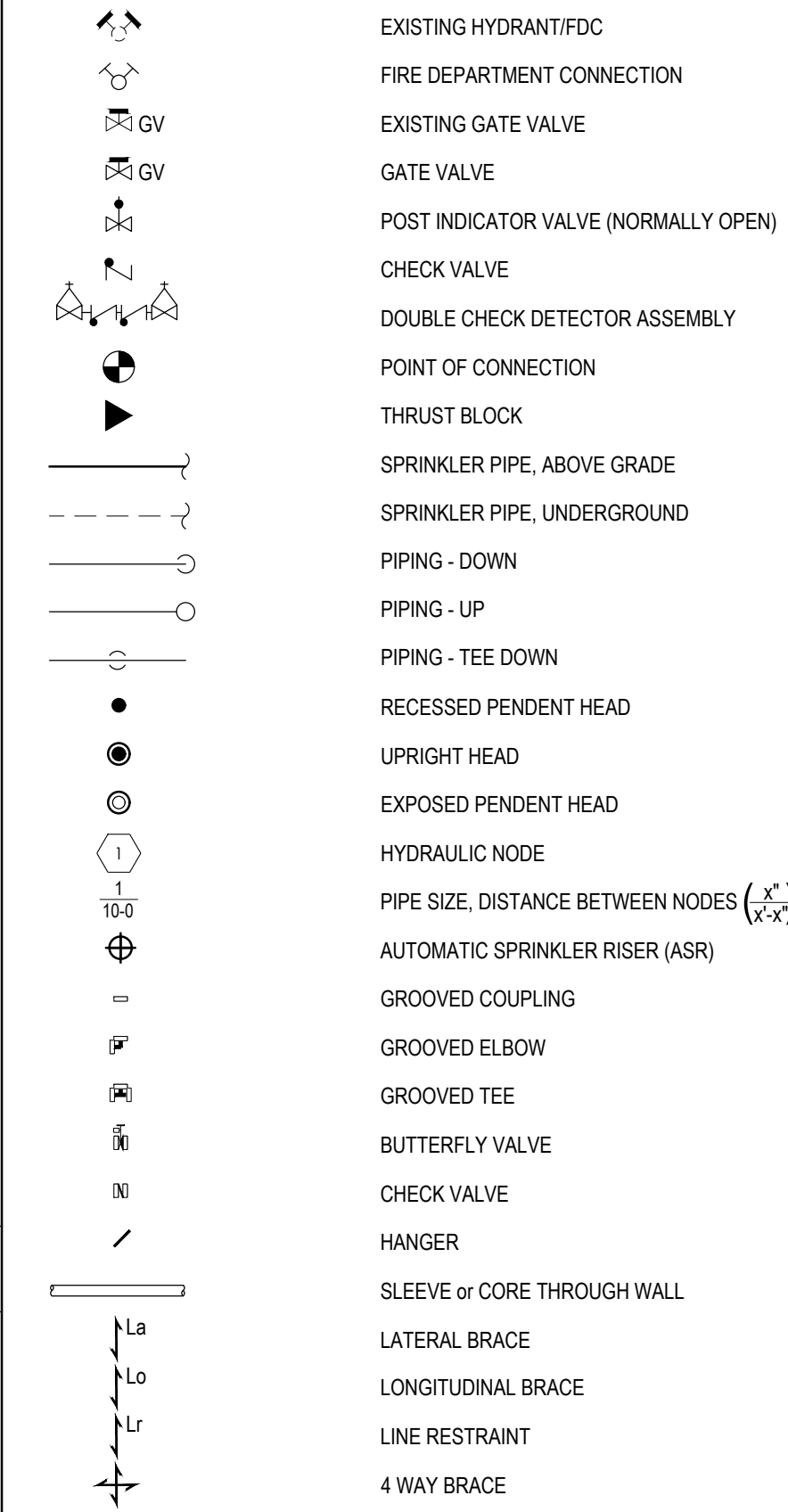
RISER DIAGRAM



RISER DATA PLATE REQ'S

HYDRAULIC DESIGN INFORMATION SIGN
NFFPA 13 2019, AMENDED PER CBC 2019, CHAPTER 35, SECTION 25.5.1 & SECTION 25.5.2
THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICALLY DESIGNED SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN SECURED WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.

LEGEND



ABBREVIATIONS

Table listing abbreviations and their meanings, such as (N) NEW, (E) EXISTING, (AD) ACCESS DOOR, etc.

OVERHEAD AFSS NOTES

- 1. ALL DEVIATIONS FROM THE PREVIOUSLY APPROVED PLANS SHALL BE JUSTIFIED AND SUBMITTED TO DSA BY WAY OF THE CCD PROCESS AS APPLICABLE.
2. THE UNDERGROUND PIPING IS NOT PART OF THIS CONTRACT. INFORMATION PROVIDED BY THE CLIENT REGARDING INCOMING PRESSURE, FLOW, SIZE AND INSTALLATION OF THE UNDERGROUND PIPING IS ASSUMED TO BE CORRECT AND ADEQUATE BASED ON CURRENT DATA PROVIDED TO THE DESIGN TEAM.

HANGER AND BRACING NOTES

- 1. PROVIDE HANGERS AND BRACES PER NFFPA-13, 1019, CHAPTER 9. SEE DETAIL SHEET FOR TYPES AND FASTENERS.
2. PIPING HUNG WITH HANGERS 6" OR LESS IN LENGTH SHALL QUALIFY AS LATERAL BRACING.

STEEL PIPING NOTES

- 1. USE ASTM A53 BLACK STEEL PIPING WITH ANY COMBINATION OF FITTINGS.
2. USE 12# ASTM B16.4 CAST IRON SCRED FITTINGS WITH SCHEDULE 40 BLACK STEEL PIPING.

PROJECT DESCRIPTION

REMODEL OF EXISTING HOTEL TO TRANSITIONING HOUSING.
BUILDING NAME: THE LEGACY RENOVATION
STORIES: BUILDINGS 1 - 2 STORIES, BUILDING 2, 1 STORY

WATER FLOW INFORMATION

WATER FLOW INFORMATION HAS NOT BEEN PROVIDED. CONTRACTOR SHALL DETERMINE THE FOLLOWING:
DATE OF REPORT: <<X>>
ELEVATION OF STREET POC (FT): <<X>>

CODE REFERENCES

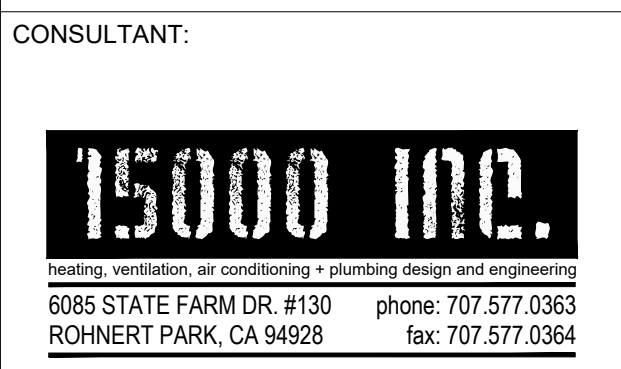
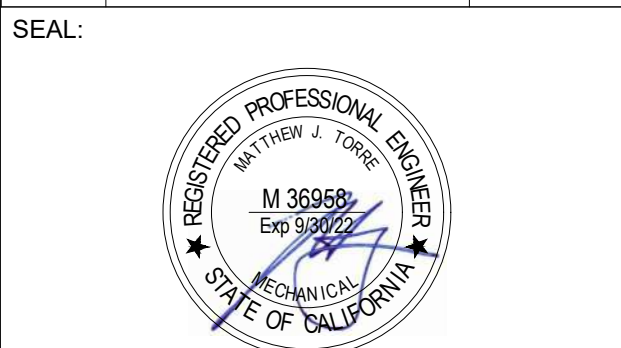
- ALL WORK SHALL CONFIRM TO THE REQUIREMENTS OF:
2019 CALIFORNIA BUILDING CODE, TITLE 24, PART 2, VOLUME 1 & 2
2019 CALIFORNIA ELECTRICAL CODE, TITLE 24, PART 3
2019 CALIFORNIA MECHANICAL CODE, TITLE 24, PART 4

SHEET INDEX

- F0.01 FIRE PROTECTION LEGEND, RISER DIAGRAM, NOTES, AND ABBREVIATIONS
F0.02 FIRE PROTECTION SPECIFICATIONS
F0.03 FIRE PROTECTION SPECIFICATIONS

REVISION SCHEDULE

Table with columns: NO., DESCRIPTION, DATE



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THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

FIRE PROTECTION LEGEND, RISER DIAGRAM, NOTES, & ABBR.

ISSUE DATE: 01/06/22
PERMIT SET
DRAWN BY: CK
DESIGNER: Designer

F0.01

SECTION 21 13 13 WET-PIPE SPRINKLER SYSTEMS	
PART 1 - GENERAL	
1.01 RELATED DOCUMENTS	
A.	Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
1.02 SUMMARY	
A. Section Includes:	1. Pipes, fittings, and specialties.
B. Related Sections:	1. Fire-protection valves.
2. Division 26 Section Electrical	
1.03 DESCRIPTION OF WORK	
A.	Scope: Provide a complete wet-pipe automatic sprinkler system, and associated equipment, ready for operation as described on the documents and drawings.
B.	Description of Work: The work includes the proposed layout and installation of a new automatic fire suppression system for complete fire protection throughout the Legacy rehabilitation project, both buildings.
C.	Compliance: The entire wet-pipe automatic sprinkler system shall be designed in accordance with the specification and current NFPA codes applicable for the occupancy and construction type. Any reference to "authority having jurisdiction" or "AHJ" shall be interpreted to mean the City of Crescent City and the State Fire Marshal. All material and equipment used shall be listed or approved by UL, FM or another nationally recognized testing agency approved by the AHJ, for their intended use and service.
1.04 PERFORMANCE REQUIREMENTS	
A.	General: Design automatic sprinkler systems in accordance with all required and advisory provisions of NFPA 13-R, including all the Annexes, except where modified herein, by hydraulic calculations for ordinary hazard occupancy with uniform water distribution over the design area. Each system shall be designed using the area/density design approach as defined by NFPA 13. The room design method shall not be used. Design and provide each system to give full consideration to blind spaces, piping, electrical equipment, ducts and other construction and equipment in accordance with detailed working drawings to be submitted for approval.
1.	General Design Area Sizes and Densities
a.	Provide the appropriate sprinkler design density based on the occupancy hazard or commodity classification of the space being protected in accordance with NFPA 13.
b.	The discharge area shall be the hydraulically most demanding 1,500 sq ft except as specifically noted below if indicated. There shall be no reduction in area for the use of quick response sprinklers.
2.	Specific Design Area Sizes and Densities
a.	Storage Rooms in excess of 1,500 sq. ft. [140 sq. m.] shall be sprinkler protected in accordance to NFPA 13 Ordinary Hazard Group II.
b.	Trash collection rooms shall be sprinkler protected in accordance to NFPA 13 Ordinary Hazard Group II.
c.	Kitchens shall be sprinkler protected in accordance to NFPA 13 Ordinary Hazard Group I.
B.	Total Combined Inside & Outside Hose Allowances: Hydraulic calculations shall include an allowance of 250 gpm for hose streams, added at the point of connection to the water supply.
C.	Water Supply Information
1.	Fire flow tests have not been previously performed and shall include the following conditions. All components below shall be tested prior to design to confirm previous results.
a.	Date: Unknown.
b.	Time: Unknown.
c.	Performed by: Unknown.
d.	Static Pressure at Residual Fire Hydrant: Unknown.
e.	Location of Flow Fire Hydrant: Unknown.
f.	Static Pressure at Residual Fire Hydrant: Unknown.
g.	Measured Flow at Flow Fire Hydrant: Unknown.
h.	Residual Pressure at Residual Fire Hydrant: Unknown.
2.	Fire pump test records are not available. Test the following conditions prior to design and installation.
a.	Date: Unknown.
b.	Time: Unknown.
c.	Performed by: Unknown.
d.	Static Pressure at Fire Pump: Unknown.
e.	Measured Flow at Fire Pump: Unknown.
f.	Residual Pressure at Fire Pump: Unknown.
D.	Sprinkler System Layout: Approved by the local AHJ.
E.	Other Design Criteria:
1.	Margin of Safety for Available Water Flow and Pressure: 10 percent, including losses through water-service piping, valves, and backflow preventers.
2.	Maximum protection area per sprinkler shall be per NFPA 13 unless noted otherwise.
3.	Velocities in all piping shall not exceed 20 ft/sec (6.1 m/sec).
4.	Interior pipe coatings are specifically prohibited where not listed for fire protection use.
5.	Total Combined Hose-Stream Demand Requirement shall be according to NFPA 13.
6.	For areas subject to temperatures below 40 degrees F::
a.	Provide dry pendent or dry sidewall sprinklers.
b.	Anti-Freeze systems shall not be installed.
c.	Heat Tape systems shall not be installed.
F.	Seismic Performance: Sprinkler piping shall withstand the effects of earthquake motions determined according to NFPA 13.
1.	Seismic Expansion Joints: Provide flexible piping systems of a length that exceeds the maximum design movement of seismic expansion joints. The use of 90 degree fittings in pipe as shown in NFPA 13 is specifically prohibited.

AHJ.	Manufacturer's data shall be provided for all products listed in Part 2 of this specification and annotated to show the specific model, type and size of each item:
C.	Coordination Drawings: For wet-pipe sprinkler systems, submit six (6) set of drawings to the Project Manager or Architect that include all information as required by NFPA 13. The drawings shall be prepared on uniform sized sheets not less than 24 in by 36 in. Partial submittals will not be acceptable and will be returned without review. Before any work is commenced, the submittal must be approved by the AHJ. Include plans, elevations, sections, details, isometric diagram of sprinkler system riser piping showing all control valve locations, and attachments to other work.
1.	Layout indicating details, plan view, elevations, supports and sections of the system piping. Indicate the location of sprinklers and piping in relation to the ceiling layout, showing pipe lengths and sizes.
2.	Detailed riser diagram including isometric diagrams showing schematic of systems supply, supply connection, devices, valves, pipe, and fittings.
3.	Provide three (3) sets of CAD based electronic shop drawings to the Project Manager or Architect; each set shall include DWG file formats, including all associated externally referenced electronic files ("Xrefs"). These files shall contain externally referenced files that have been inserted (do not bind the Xrefs). Provide DWG file formats on three (3) separate recordable CD-R's (do not use CD-RW's or DVD-R/RW's). In addition, provide in each set a read only PDF copy of each As-Built drawing for archiving purposes. PDF files shall be created using the PDF Creator utility. These three (3) CD-R's shall be formatted, written to, and the recording session closed in such a manner as to prevent additional electronic file transfers to the recordable CD-R's.]
D.	Hydraulic Calculations. Submit name of hydraulic program and comply with the following:
1.	Where a single riser supplies water to more than one floor or level, separate calculations shall be performed for the hydraulically most demanding area of each floor or level served.
2.	Minimum operating pressure of any sprinkler shall be according to NFPA 13 and appropriate UL listing or FM approval.
E.	Verification of Qualification. Prior to installation, submit documentation, to the Project Manager, showing that the Contractor has successfully installed automatic fire suppression sprinkler systems of comparable size, type and design as specified herein or that the Contractor has a firm contractual agreement with a Subcontractor having such experience.
1.	The data shall include the names and locations of at least three installations where the Contractor, or Subcontractor, installed such systems.
2.	The Contractor, or Subcontractor, shall certify that each system has performed satisfactorily for a period of not less than one year.
3.	The Contractor or Subcontract shall submit the NICET/PE certification/license number and expiration date.
F.	As Built Drawings:
1.	General: Prepare and submit to the Project Manager six (6) sets of detailed "As-Built Drawings". The drawings shall show the system as installed, including all deviations from both the project drawings and the approved shop drawings. The drawings shall also include all information as required by NFPA 13. The drawings shall be prepared on uniform sized sheets not less than 30 in by 42 in (762 by 1070 mm). Submit these drawings within two weeks after the final acceptance test of the system.
2.	Provide three (3) sets of CAD based electronic shop drawings to the Project Manager or Architect; each set shall include DWG file formats, including all associated externally referenced electronic files ("Xrefs"). These files shall contain externally referenced files that have been inserted (do not bind the Xrefs). Provide DWG file formats on three (3) separate recordable CD-R's (do not use CD-RW's or DVD-R/RW's). In addition, provide in each set a read only PDF copy of each As-Built drawing for archiving purposes. PDF files shall be created using the PDF Creator utility. These three (3) CD-R's shall be formatted, written to, and the recording session closed in such a manner as to prevent additional electronic file transfers to the recordable CD-R's.]
G.	Field Test Reports and Certificates: Submit test certification, to the Project Manager or Architect, for all pipe and fittings. Indicate and interpret test results for compliance with performance requirements and as described in NFPA 13. Include "Contractor's Material and Test Certificate for Aboveground Piping."
H.	Operation and Maintenance Data: Not less than fourteen calendar days prior to the final acceptance testing of the entire system, and for use during the instruction period hereinafter specified, provide six (6) bound copies of an Operation and Maintenance Manual to the Project Manager. The manual shall include an index, copies of all approved shop drawings and submittal materials (updated to as built), and a complete parts list of all components. The manual shall also include, for each item, the manufacturer's name, the serial number of the part, an ordering number, if appropriate, and a physical description of the part. The manual shall include all data relative to alarm valves, water-flow switches, and tamper switches. Electronic versions of the above will not be accepted and will be rejected without review.
1.06 QUALITY ASSURANCE	
A.	Qualifications:
1.	Layout and hydraulic calculation shall be performed by a NICET Level III or IV Technician certified in Automatic Sprinkler Systems Layout or a Registered Fire Protection Engineer.
2.	Installation shall be performed by a licensed sprinkler contractor who is experienced in the layout and installation of automatic sprinkler systems (minimum 5 years) of comparable size and type.
3.	Installer's responsibilities include layout, fabrication, and installation of sprinkler systems. Layout calculations shall be based on the test data as performed in Part 1.
4.	Drawings shall be sealed by a licensed Professional Fire Protection Engineer or be stamped by a NICET Level III or IV Technician certified in Automatic Sprinkler Systems Layout. Contractors shall specifically request in writing any waiver of this provision directly to the Project Manager or Architect.
B.	Applicable References: Sprinkler system equipment, specialties, accessories, installation, and testing shall comply with the latest editions of the following codes and standards:
1.	National Fire Protection Association (NFPA), including all amendments and annexes
2.	Underwriter's Laboratories (UL)
3.	Factory Mutual Global (FM)
a.	Approval Guide
4.	American Standard for Testing Materials (ASTM)
a.	ASTM A53/A53M, "Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless"
b.	ASTM A153, "Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware"
c.	ASTM A234/A234M, "Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service"
d.	ASTM A536, "Standard Specification for Ductile Iron Castings"
e.	ASTM A733, "Standard Specification for Welded and Seamless Carbon Steel

and Austenitic Stainless Steel Pipe Nipples"	
g.	ASTM A795, "Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use"
h.	ASTM A865, "Standard Specification for Threaded Couplings, Steel, Black or Zinc-Coated (Galvanized) Welded or Seamless, for Use in Steel Pipe Joints"
i.	ASTM B75/B75M, "Standard Specification for Seamless Copper Tube"
j.	ASTM B88, "Standard Specification for Seamless Copper Water Tube"
k.	ASTM B584, "Standard Specification for Copper Alloy Sand Castings for General Applications"
l.	ASTM B633, "Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel"
m.	ASTM F2014, "Standard Specification for Non-Reinforced Extruded Tee Connections for Piping Applications"
5.	American Water Works Association (AWWA)
a.	AWWA C110, "Standard for Ductile Iron and Gray Iron Fittings for Water"
b.	AWWA C606, "Standard for Grooved and Shouldered Joints"
6.	American Society of Mechanical Engineers (ASME)
a.	ASME B1.20.1, "Pipe Threads, General Purpose"
b.	ASME B16.1, "Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250"
c.	ASME B16.3, "Malleable Iron Threaded Fittings"
d.	ASME B16.4, "Gray Iron Threaded Fittings"
e.	ASME B16.5, "Pipe Flanges and Flanged Fittings: NPS 1/2 through 24"
f.	ASME B16.9, "Factory-Made Wrought Buttwelding Fittings"
g.	ASME B16.21, "Nonmetallic Flat Gaskets for Pipe Flanges"
h.	ASME B16.22, "Wrought Copper and Copper Alloy Solder Joint Pressure Fittings"
i.	ASME B16.24, "Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1500 and 2500"
j.	ASME B18.2.1, "Square and Hex Bolts and Screws, Inch Series"
7.	American Welding Society (AWS)
a.	AS 8, "Specification for Filler Metals for Brazing and Braze Welding"
b.	D10.12/D10.12M, "Guide for Welding Mild Steel Pipe"
8.	Manufacturer's Standardization Society (MSS)
a.	SP-123, "Non-Ferrous Threaded and Solder-Joint Unions for Use With Copper Water Tube"
9.	Copper Development Association (CDA)
a.	Copper Tube Handbook
10.	Federal Specifications
a.	TT-P-636
11.	International Code Council (ICC)
a.	International Building Code (IBC)]
C.	Guarantee. The Contractor shall guarantee labor, materials, and equipment provided under this contract against defects for a period of one year after the date of final acceptance of this work by the Owner. Final Acceptance includes, but is not limited to, the receipt of as-built drawings and operation and maintenance manuals Contractor shall be able to provide qualified personnel to site within a two (2) hour time frame and be available 24 hours a day, 7 days a week.
D.	Conflicts. The system shall be installed in accordance with the drawings, specifications and referenced publications. Any conflicts between these documents shall be brought to the attention of the Project Manager, Architect, and the AHJ.
1.07 PROJECT CONDITIONS	
A.	Interruption of Existing Sprinkler Service: Do not interrupt sprinkler service to facilities without prior approval of the Owner and AHJ and the facility's Property Manager:
1.	Existing Sprinkler Equipment: Existing sprinkler equipment shall be maintained fully operational until the new equipment has been tested and accepted by the Government as indicated in the contract drawings
2.	When sprinkler interruption is necessary, a written plan for putting the system back into service shall be submitted to the Owner, AHJ and the facility's Property Manager.
3.	Equipment Removal: After acceptance of the new system by the Owner, all existing equipment so indicated shall be removed and all damaged surfaces shall be restored as herein specified.
1.08 COORDINATION	
A.	Coordinate layout and installation of sprinklers with other construction that penetrates ceilings, including light fixtures, HVAC equipment, and partition assemblies.
B.	Sprinklers shall be located in center of ceiling tile in all acoustical tile drop ceilings.
PART 2 - PRODUCTS	
2.01 All Products	shall be UL listed or FM approved for Fire Protection Service unless specifically allowed otherwise by this specification.
2.02 PIPING MATERIALS	
A.	Materials shall be steel, ductile iron, or copper.
2.03 STEEL PIPE AND FITTINGS	
A.	Schedule 40, Black-Steel Pipe: ASTM A795, in NPS 2 in (DN 50) and smaller. Pipe ends may be factory or field formed to match joining method.
B.	Black-Steel Pipe Nipples: ASTM A733, made of ASTM A795, Schedule 40 steel pipe with threaded ends.
C.	Steel Couplings: ASTM A865, threaded.
D.	Gray-iron Threaded Fittings: ASME B16.4, Class 125, standard pattern.
E.	Malleable- or Ductile-Iron Unions: UL listed.
F.	Cast-Iron Flanges: ASME 16.1, Class 125.
G.	Steel Flanges and Flanged Fittings: ASME B16.5, Class 150.
H.	Steel Welding Fittings: ASTM A234/A234M and ASME B16.9.
I.	Malleable Iron Fittings: ASMT B16.3, Class 150
J.	Grooved-Joint, Steel-Pipe Appurtenances:
1.	Pressure Rating: 250 psig (1725 kPa)
2.	Grooved-End Fittings for Steel Piping: ASTM A47/A47M, malleable-iron casting or ASTM A536, ductile-iron casting; with dimensions matching steel pipe.
3.	Grooved-End-Pipe Couplings for Steel Piping: AWWA C606 rigid pattern, unless otherwise indicated by this specification, for steel-pipe dimensions. Include ferrous housing sections, EPDM-rubber gasket, and bolts and nuts.
2.04 COPPER TUBE AND FITTINGS	
A.	Hard Copper Tube: ASTM B88, Type K drawn copper.
B.	Wrought-Copper, Solder-Joint Fittings: ASME B16.22, pressure fittings.
C.	Bronze Flanges: ASME B16.24, Class 150, with solder-joint ends.
D.	Copper Unions: MSS SP-123, cast-copper-alloy, hexagonal-stock body, with

ball-and-socket, metal-to-metal seating surfaces, and solder-joint or threaded ends.	
E.	Grooved-Joint, Copper-Tube Appurtenances:
1.	Grooved-End, Copper Fittings: ASTM B75 (ASTM B75M), copper tube or ASTM B584, bronze castings.
2.	Grooved-End-Tube Couplings: To fit copper-tube dimensions, with design similar to AWWA C606. Include ferrous housing sections, EPDM-rubber gasket suitable for fire protection service, and bolts and nuts.
F.	Copper-Tube, Extruded-Tee Connections:
1.	Description: Tee formed in copper tube according to ASTM F2014.
2.05 PIPING JOINING MATERIALS	
A.	Pipe-Flange Gasket Materials: AWWA C110, rubber, flat face, 1/8 inch (3.2 mm) thick.
1.	Class 125, Cast-Iron Flanges and Class 150, Bronze Flat-Face Flanges: Full-face gaskets.
2.	Class 250, Cast-Iron Flanges and Class 300, Steel Raised-Face Flanges: Ring-type gaskets.
B.	Metal, Pipe-Flange Bolts and Nuts: ASME B18.2.1, carbon steel unless otherwise indicated by this specification.
C.	Brazing Filler Metals: AWS A5.8/A5.8M, BCuP Series, copper-phosphorus alloys for general-duty brazing unless otherwise indicated by this specification.
D.	Grooving Filler Metals: Comply with AWS D10.12M/D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
2.06 VALVES	
A.	General Requirements:
1.	Minimum Pressure Rating for Standard-Pressure Piping: 175 psig (1200 kPa).
B.	Ball Valves:
1.	Standard: UL listed, except with ball instead of disc.
2.	Valves NPS 1-1/2 (DN 40) and Smaller: Bronze body with threaded ends.
3.	Valves NPS 2 and NPS 2-1/2 (DN 50 and DN 65): Bronze body with threaded ends or ductile-iron body with grooved ends.
4.	Valves NPS 3 (DN 80): Ductile-iron body with grooved ends.
C.	Bronze Butterfly Valves:
1.	Pressure Rating: 175 psig (1200 kPa).
2.	Body Material: Bronze.
3.	End Connections: Threaded.
D.	Iron Butterfly Valves:
1.	Pressure Rating: 175 psig (1200 kPa).
2.	Body Material: Cast or ductile iron.
3.	Retain one of two subparagraphs below.
4.	Style: Lug or wafer.
5.	End Connections: Grooved.
E.	Check Valves:
1.	Pressure Rating: 250 psig (1725 kPa) minimum
2.	Type: Swing check.
3.	Body Material: 2-1/2 (DN 65) inches or more: Cast iron.
4.	Body Material: 2 inches or less (DN 50): Bronze with screw ends
5.	End Connections: Flanged or grooved.
F.	Bronze OS&Y Gate Valves:
1.	Pressure Rating: 175 psig (1200 kPa).
2.	Body Material: Bronze.
3.	End Connections: Threaded.
G.	Iron OS&Y Gate Valves:
1.	Pressure Rating: 250 psig (1725 kPa) minimum
2.	Body Material: Cast or ductile iron.
3.	End Connections: Threaded.
H.	Indicating-Type Butterfly Valves:
1.	Pressure Rating: 175 psig (1200 kPa) minimum.
2.	Valves NPS 2 (DN 50) and Smaller:
a.	Valve Type: Ball or butterfly.
b.	Body Material: Bronze.
c.	End Connections: Threaded.
3.	Valves NPS 2-1/2 (DN 65) and Larger:
a.	Valve Type: Butterfly.
b.	Body Material: Cast or ductile iron.
c.	End Connections: Flanged, grooved, or wafer.
4.	Valve Operation: Integral (electrical, 115-V ac, prewired, two-circuit, supervisory switch) visual indicating device.
I.	Indicator Posts:
1.	Type: Horizontal for wall mounting.
2.	Body Material: Cast iron with extension rod and locking device.
3.	Operation: Wrench
2.07 TRIM AND DRAIN VALVES	
A.	General Requirements:
1.	Pressure Rating: 175 psig (1200 kPa) minimum.
B.	Provide Angle Valves, Ball Valves, Globe Valves, Plug Valves
2.08 SPECIALTY VALVES	
A.	General Requirements:
1.	Pressure Rating: 175 psig (1200 kPa) minimum.
B.	High-Pressure Piping Specialty Valves 300 psig (2070 kPa).
1.	Type: Electrically supervised with screw terminals.
2.	Components: Double-pole, double-throw switch with normally closed contacts.
3.	Design: Signals that control valve is in other than fully open position.
2.13 PRESSURE GAGES	
A.	Type: Liquid filled
B.	Dial Size: 4-1/2-inch (90- to 115-mm) diameter.
C.	Pressure Gage Range: 0 to 250 psig (0 to 1725 kPa) minimum.
D.	Water System Piping Gage: Include "WATER" or "AIR/WATER" label on dial face.
2.14 PIPE ESCUTCHEONS	
A.	General: Manufactured ceiling, floor, and wall escutcheons and floor plates.
B.	One-Piece, Cast-Bronze Escutcheons: Polished chrome-plated finish with set-screws.
C.	One-Piece, Deep-Pattern Escutcheons: Deep-drawn, box-shaped brass with chrome-plated finish.
D.	One-Piece, Stamped-Steel Escutcheons: Chrome-plated finish with set-screw.
E.	Split-Casting, Cast-Bronze Escutcheons: Polished chrome-plated.

1.	Pressure Rating: 175 psig (1200 kPa) minimum.
2.	Type: Automatic draining, ball check.
3.	Size: NPS ¼ (DN 20).
4.	End Connections: Threaded.]
2.09 FIRE DEPARTMENT CONNECTIONS	
A.	Exposed-Type, Fire-Department Connection:
1.	Type: Exposed, projecting, for wall mounting.
2.	Pressure Rating: 175 psig (1200 kPa) minimum.
3.	Body Material: Corrosion-resistant metal.
4.	Inlets: Brass with threads according to local fire-department sizes and threads. Include extension pipe nipples, brass lugged swivel connections, and check devices or clappers.
5.	Caps: Brass, lugged type, with gasket and chain or plastic.
6.	Escutcheon Plate: Round, brass, wall type.
7.	Outlet: Back, with pipe threads.
8.	Number of Inlets: Two.
9.	Escutcheon Plate Marking: Similar to "AUTO SPKR & STANDPIPE"
10.	Finish: Rough Brass or Bronze.
2.10 SPRINKLER SPECIALTY PIPE FITTINGS	
A.	Branch Outlet Fittings:
1.	Use welded, threaded or grooved outlets only.
2.	Mechanical fastened tees are not permitted.
3.	Where welded outlets are used, cutouts shall be fastened to the pipe from which they are cut.
B.	Flow Detection and Test Assemblies:
1.	Pressure Rating: 175 psig (1200 kPa) minimum
2.	Body Material: Cast- or ductile-iron housing with orifice, sight glass, and integral test valve.
3.	Size: Same as connected piping.
4.	Inlet and Outlet: Threaded.
C.	Sprinkler Inspector's Test Fittings:
1.	Pressure Rating: 175 psig (1200 kPa) minimum
2.	Body Material: Cast- or ductile-iron housing with sight glass.
3.	Size: Same as connected piping.
4.	Inlet and Outlet: Threaded.
2.11 SPRINKLERS	
A.	General Requirements:
1.	Pressure Rating for Automatic Sprinklers: 175 psig (1200 kPa) minimum.
2.	Pressure Rating for High-Pressure Automatic Sprinklers: 250 psig (1725 kPa)
3.	Sprinklers with O-rings are not permitted.
B.	Automatic Sprinklers with Heat-Responsive Element:
1.	Early-Suppression, Fast-Response Applications: FM Global Loss Prevention Data Sheet 2-2.
2.	Characteristics: Nominal ½-inch (12.7-mm) orifice with Discharge Coefficient K of 5.6, and 8.0 for "Ordinary" temperature classification rating unless otherwise indicated by this specification or required by application.
3.	Provide ½ inch NPS thread for K5.6 and ¾ inch NPS thread for K8.0.
C.	Sprinkler Finishes:
1.	Chrome plated.
2.	Bronze.

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B

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E

FIRE PROTECTION SHEET NOTES

- ① UNDERGROUND FIRE LINE SHALL BE INCLUDED IN HYDRAULIC CALCULATION FROM MOST REMOTE AREA BACK TO P.O.C. OF FIRE LINE ON SITE.
- ② FIRE RISER. CONFIRM LOCATION WITH OWNER AND ARCHITECT.
- ③ END LINE BRACE, TYP.
- ④ RATE A.F.S.S. PIPING CONCEALED THROUGHOUT WITH PENDANT HEADS. COORDINATE WITH OWNER AND ARCHITECT.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SEAL:



CONSULTANT:

15000 inc.
 heating, ventilation, air conditioning • plumbing design and engineering
 8085 STATE FARM DR. #130 phone: 707.577.0363
 ROHNERT PARK, CA 94928 fax: 707.577.0364

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PROJECT:

THE LEGACY RENOVATION

665 L STREET
CRESCENT CITY, CA
95531

SHEET NAME:

FIRE PROTECTION BUILDING 2

ISSUE DATE: 01/06/22

PERMIT SET

DRAWN BY: CK

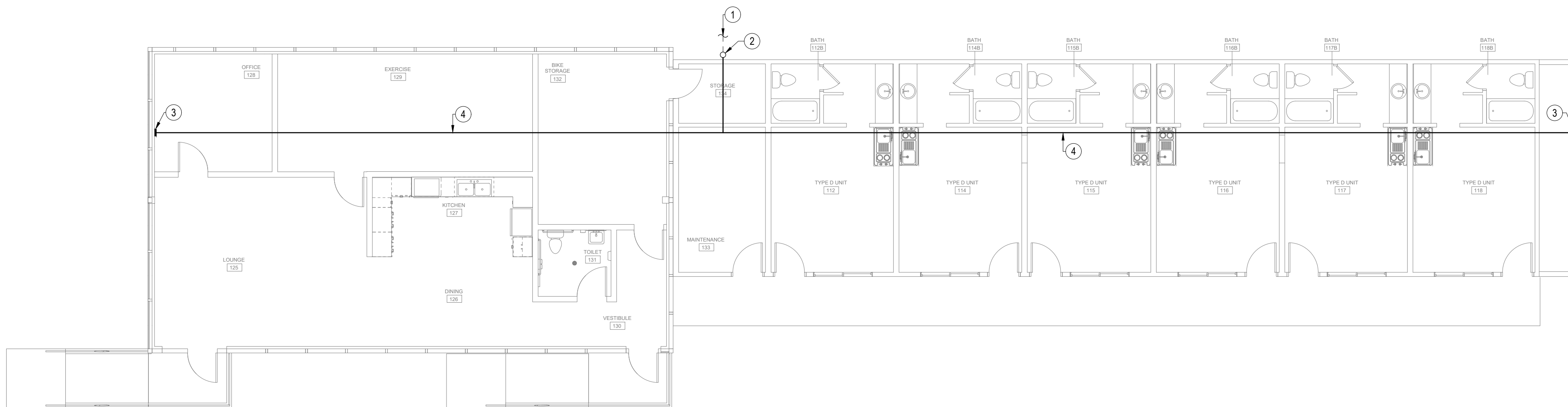
DESIGNER: Designer

PROJ MGR:

PEER REVIEW: JT/MT

SHEET NUMBER:

F1.02



1 BUILDING 2 - FIRE PROTECTION
SCALE: 1/4"=1'-0"