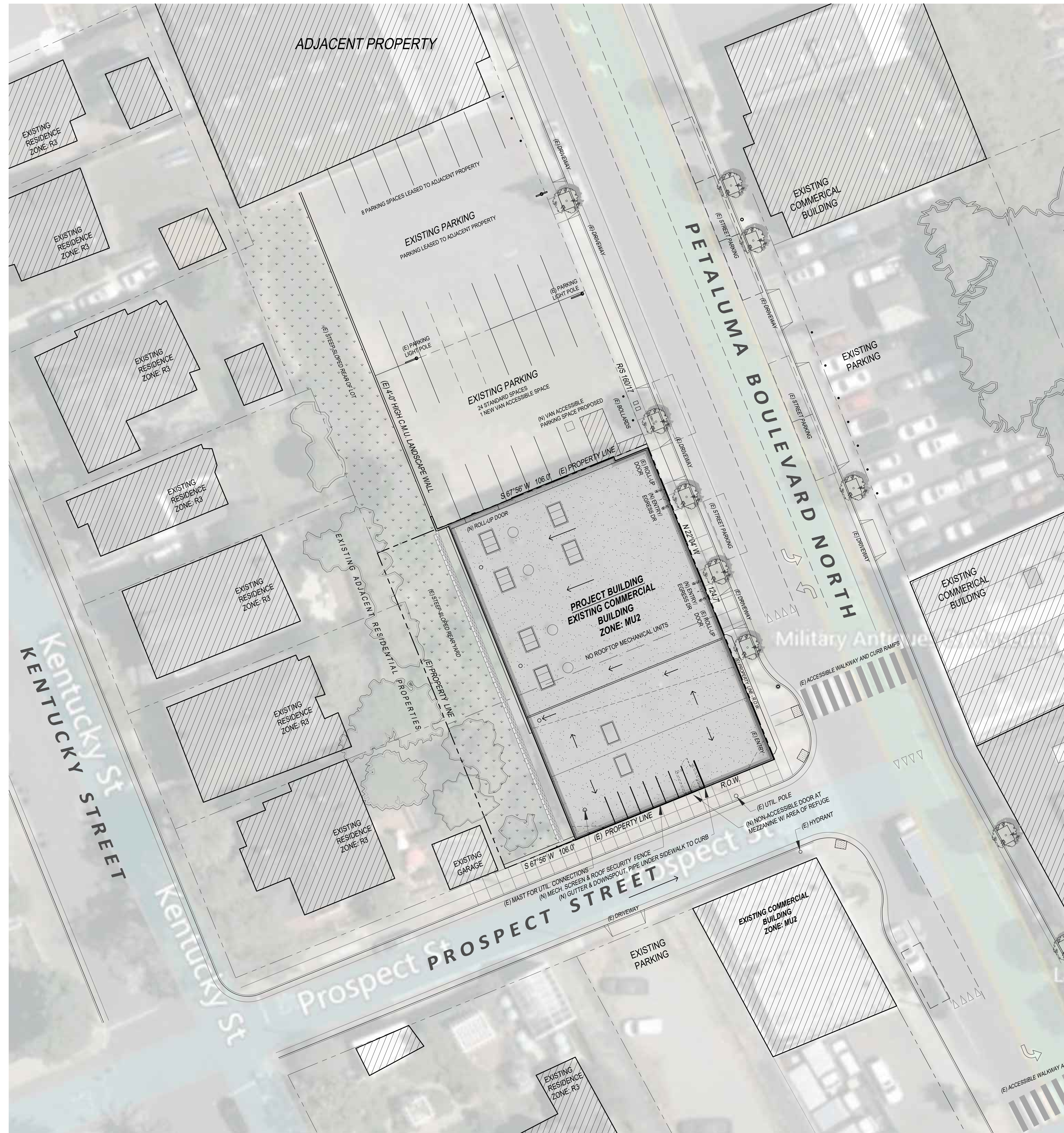


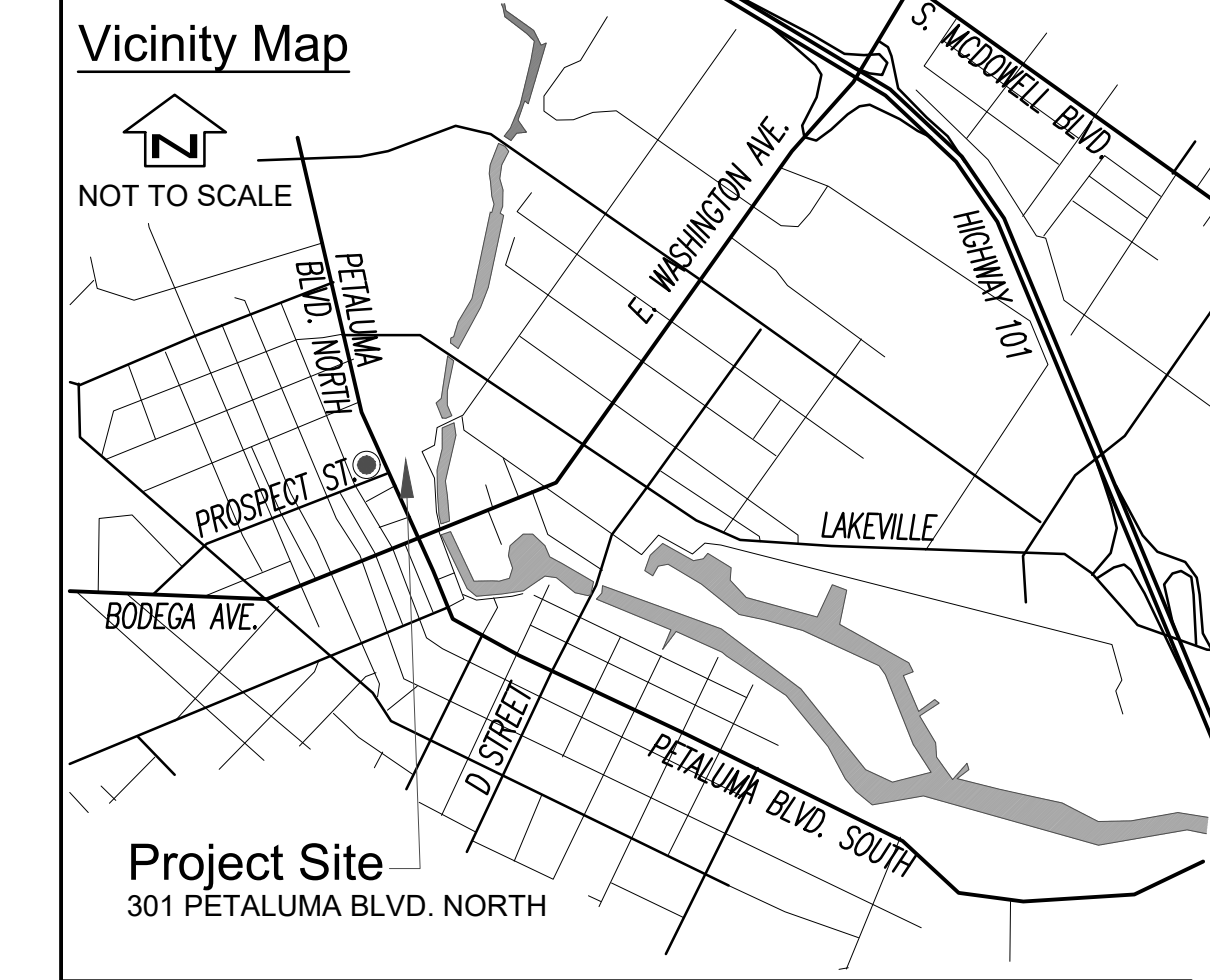
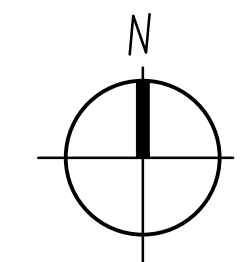
**Abbreviations**

AFF	Above Finished Floor
O.C.	on center
GFI	Ground-Fault Interrupt
MAX.	maximum
MIN.	minimum
F.F.	finished floor
T.O.	top of
B.O.	bottom of
GC	general contractor
BM	beam
JST	joint
EA	each
FLR	floor
CONN.	connection
Elec.	electrical
Plmb.	plumbing
w/c	water closet
HVAC	Heating, venting Air-conditioning
(E)	existing
(N)	new
(R)	relocated
V.I.F.	verify in field
C.M.U.	concrete-masonry unit
WD	wood
Gyp.	gypsum
Bd.	board
SF	square footage
LF	linear foot
C.F.M.	cubic feet per minute
Ft.	feet (foot)
Sq.	square
m	meter
cm	centimeter
in.	inch
CONT.	continuous
Ctg.	ceiling
Fin. Flr.	Finished Floor
T.O.	top of
B.O.	bottom of
Bott.	bottom



**1 SITE PLAN**

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



**GREGORY POLOYNIS ARCHITECT**  
 California License No. 34548  
 373 Springdale Street  
 Sebastopol, California 95472  
 Ph: 707-479-0020  
 gpoloynis@gmail.com

**Project Team**

<b>OWNER:</b> CARA RECINE 415 DAVIS STREET SANTA ROSA, CA 95401 (707) 477-8472 CARARECINE@GMAIL.COM	<b>ARCHITECT:</b> GREGORY POLOYNIS, AIA 373 SPRINGDALE ST SEBASTOPOL, CALIFORNIA 95472 PHONE: (707) 479-0020 EMAIL: GREG@POLOYNIS.COM
--	--

<b>ENERGY CONSULTANT:</b> PHASE ENERGY GROUP 215 CAPTAIN NURSE CIRCLE NOVATO, CALIFORNIA 94949 (415) 747-4115 CONTACT: LAWRENCE WINCHELL LAWRENCE@PHASEENERGYGROUP.COM	<b>STRUCTURAL ENGINEER:</b> MKM & ASSOCIATES, INC. 5880 COMMERCE BLVD., STE 105 ROHNERT PARK, CA 94928 Ph: (707) 578-8185 CONTACT: JOSH WALLACE, PRINCIPAL ENGINEER JOSH@MKMASSOCIATES.COM
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**Project Information**

**PROJECT ADDRESS:** 301 PETALUMA BLVD. NORTH  
PETALUMA, CALIFORNIA

**LOT SIZE:** 0.25 ACRES

**BUILDING TYPE:** V-B, NON-RATED

**OCCUPANCY:** COMMERCIAL

**ZONING:** MU2

**SCOPE OF WORK:** SCOPE OF WORK INCLUDES:  
 - USE CONVERSION OF EXISTING REPAIR SHOP SALES AREA AND PORTION OF EXISTING MEZZANINE FOR USE AS A SMALL DANCE STUDIO, WITH UPGRADED ACCESSIBLE ENTRANCE, RESTROOMS AND AN EXIT TO PROSPECT ST. AT THE MEZZANINE LEVEL, WITH AREA OF REFUGE, AND NEW FIRE-RATED CONSTRUCTION INSTALLED BETWEEN DANCE STUDIO AND REPAIR SHOP USES.  
 - NEW ACCESSIBLE ENTRIES TO REPAIR SHOP  
 - NEW GARAGE DOOR AT EXISTING NORTH WALL, FOR LOADING, ADJACENT TO EXISTING PARKING, TO AVOID LOADING COMPLICATION AT PETALUMA BLVD.  
 - STRUCTURAL REPAIRS AND LATERAL SYSTEM UPGRADES TO BUILDING SHELL, INCLUDING EXISTING TRUSS AND ROOF REPAIR, AND INSTALLATION OF SHEAR WALLS

**Project Areas**

**EXISTING AREAS OF AUTO REPAIR SHOP**  
 (E) 1,300 SF SALES AREA  
 (E) 1,000 SF STORAGE  
 (E) 7,400 SF REPAIR SHOP  
 (E) 9,700 SF TOTAL  
 (E) 2,300 SF MEZZANINE ( 24% OF EXISTING FOOTPRINT )

**PROPOSED AREAS AND USE:**

**DANCE STUDIO, GROUPS A-3, B, AND S-2**  
 (E) 1,300 SF JUNIOR DANCE STUDIO AND CIRCULATION SPACE  
 (E) 1,000 SF RESTROOMS, BREAK AREA AND LOWER FLOOR STORAGE

**REPAIR SHOP, GROUP F-2 AND S-2**  
 (E) 7,400 SF REPAIR SHOP  
 (E) 9,700 SF TOTAL

**MEZZANINE**  
 (E) 2,300 SF MEZZANINE \* ( 24% OF EXISTING FOOTPRINT )  
 INCLUDES UPPER ACCESSIBLE SINGLE-OCCUPANT RESTROOM AND ACCESSIBLE MEZZANINE ENTRY/EGRESS TO REPLACE

**Code Compliance**

WORK SHALL CONFORM TO ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO:

- 2019 CALIFORNIA BUILDING CODE
- 2019 CALIFORNIA ENERGY CODE
- 2019 CALIFORNIA ELECTRICAL CODE
- 2019 CALIFORNIA FIRE CODE
- CITY OF PETALUMA MUNICIPAL CODE

**Sheet Index**

SHT	DESCRIPTION
A1.0	COVER SHEET: PROJECT INFORMATION, VICINITY MAP, SITE PLAN CODE ANALYSIS
A1.1	
AD2.1	EXISTING/DEMOLITION FLOOR PLAN
AD2.2	EXISTING/DEMOLITION MEZZANINE PLAN
AD5.1	EXISTING/DEMOLITION EXTERIOR ELEVATIONS
AD5.2	EXISTING/DEMOLITION EXTERIOR ELEVATIONS
A2.1	PROPOSED FLOOR PLAN
A2.2	PROPOSED MEZZANINE PLAN
A4.1	PROPOSED ROOF PLAN
A5.1	PROPOSED EXTERIOR ELEVATIONS
A5.2	PROPOSED EXTERIOR ELEVATIONS

STRUCTURAL DRAWINGS  
 MECHANICAL DRAWINGS  
 PLUMBING DRAWINGS  
 ELECTRICAL DRAWINGS

**Deferred Submissions**

1) FIRE SPRINKLER DESIGN & DRAWINGS - PREPARED, STAMPED AND SIGNED BY LICENSED C-16 CONTRACTOR

2) DESIGN-BUILD SHOP DRAWINGS BASED FOR MECHANICAL, ELECTRICAL AND PLUMBING DRAWING SYSTEMS, BASED ON ENERGY CONSULTANT'S SCHEMATIC DESIGNS

**GENERAL INFORMATION**  
**SITE PLAN**

**BUILDING SHELL AND TENANT IMPROVEMENTS FOR:**  
**Cara Recine**  
 301 PETALUMA BOULEVARD NORTH  
 PETALUMA, CALIFORNIA  
 APN: 006-161-022

**REVISIONS**

REV.	ITEM	DATE
	PLANNING COMMENTS	12-12-22

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CHECK:	
DATE:	MARCH 02, 2022

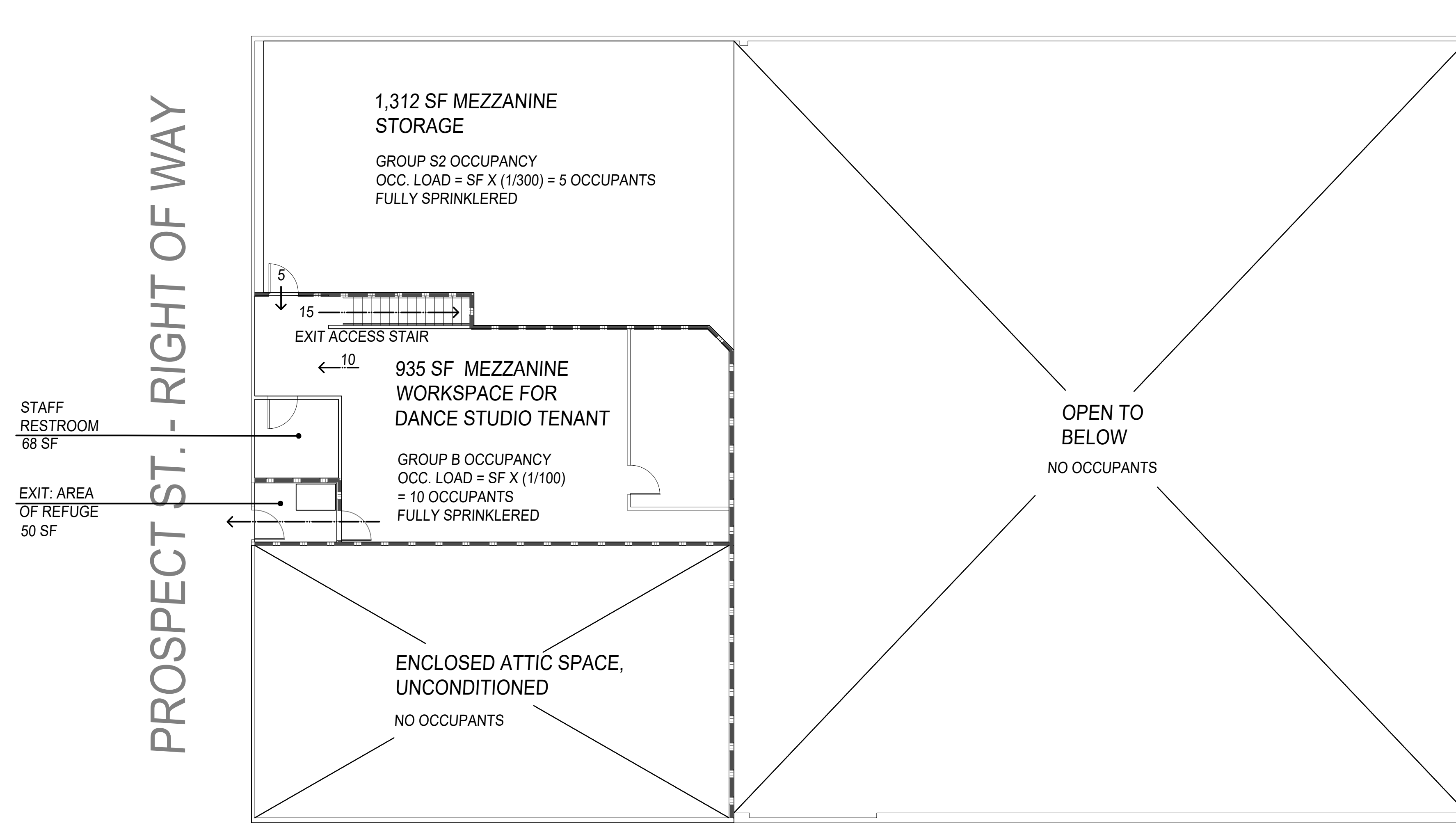
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**A1.0**



**REVISIONS**

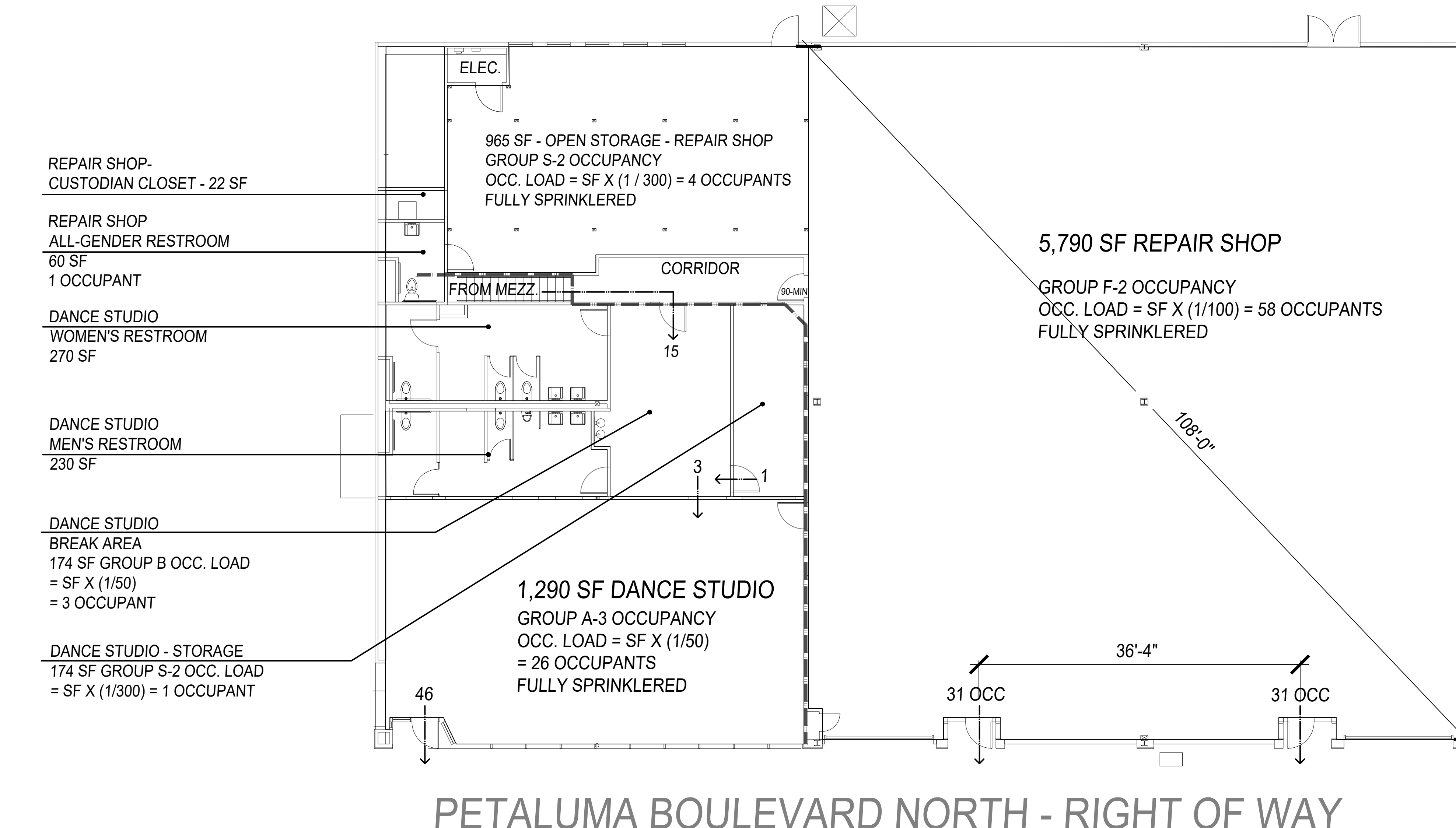
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	PLANNING COMMENTS	12-12-22

DRAWN:	GCP
CHECK:	
DATE:	MARCH 02, 2022



**2 MEZZANINE - CODE ANALYSIS PLAN**

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



**1 MAIN FLOOR - CODE ANALYSIS PLAN**

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

**Project Areas**

**EXISTING AREAS OF AUTO REPAIR SHOP**

- (E) 1,300 SF SALES AREA
- (E) 1,080 SF STORAGE
- (E) 7,400 SF REPAIR SHOP
- (E) 9,780 SF TOTAL
- (E) 2,300 SF MEZZANINE ( 24% OF EXISTING FOOTPRINT )

**PROPOSED AREAS AND USE:**

- DANCE STUDIO, GROUPS A-3, B, AND S-2**
- (E) 1,300 SF JUNIOR DANCE STUDIO AND CIRCULATION SPACE
- (E) 1,080 SF RESTROOMS, BREAK AREA AND LOWER FLOOR STORAGE

**REPAIR SHOP, GROUP F-2 AND S-2**

- (E) 7,400 SF REPAIR SHOP
- (E) 9,780 SF TOTAL

**MEZZANINE**

- (E) 2,300 SF MEZZANINE \* ( 24% OF EXISTING FOOTPRINT )
- \* INCLUDES UPPER ACCESSIBLE SINGLE-OCCUPANT RESTROOM AND ACCESSIBLE MEZZANINE ENTRY/EGRESS TO REPLACE

**EXISTING/  
DEMOLITION  
FLOOR PLAN**

BUILDING SHELL AND TENANT IMPROVEMENTS FOR:

**Cara Racine**

301 PETALUMA BOULEVARD NORTH  
PETALUMA, CALIFORNIA

APN: 006-161-022

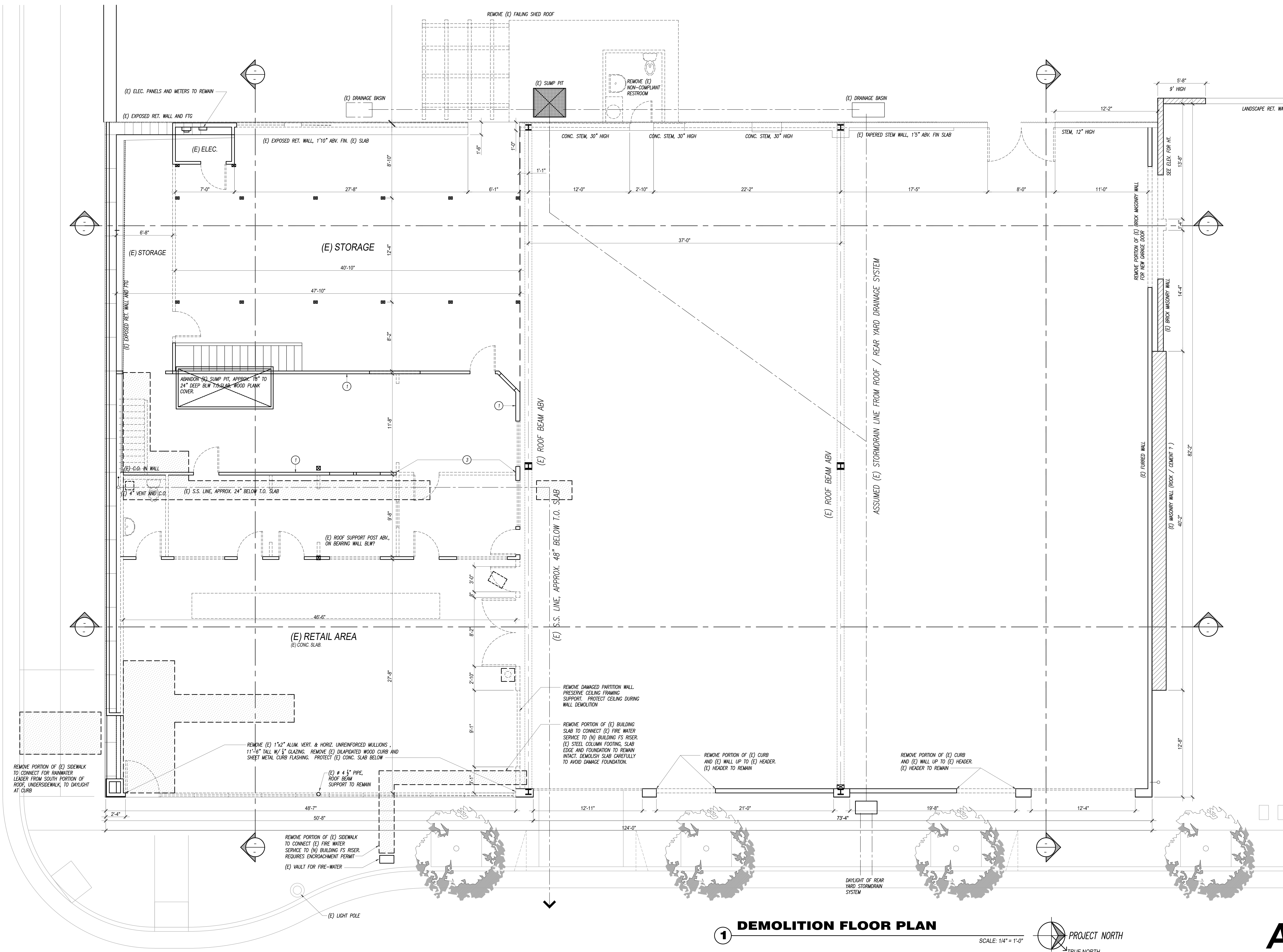
REVISIONS

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1	PLANNING COMMENTS	12-12-22

DRAWN:	GCP
CHECK:	
DATE:	MARCH 02, 2022

PLANNING SET  
Not For Construction

**AD2.1**



**EXISTING /  
DEMOLITION  
MEZZANINE PLAN**

BUILDING SHELL AND TENANT IMPROVEMENTS FOR:

**Cara Racine**

301 PETALUMA BOULEVARD NORTH  
PETALUMA, CALIFORNIA  
APN: 006-161-022

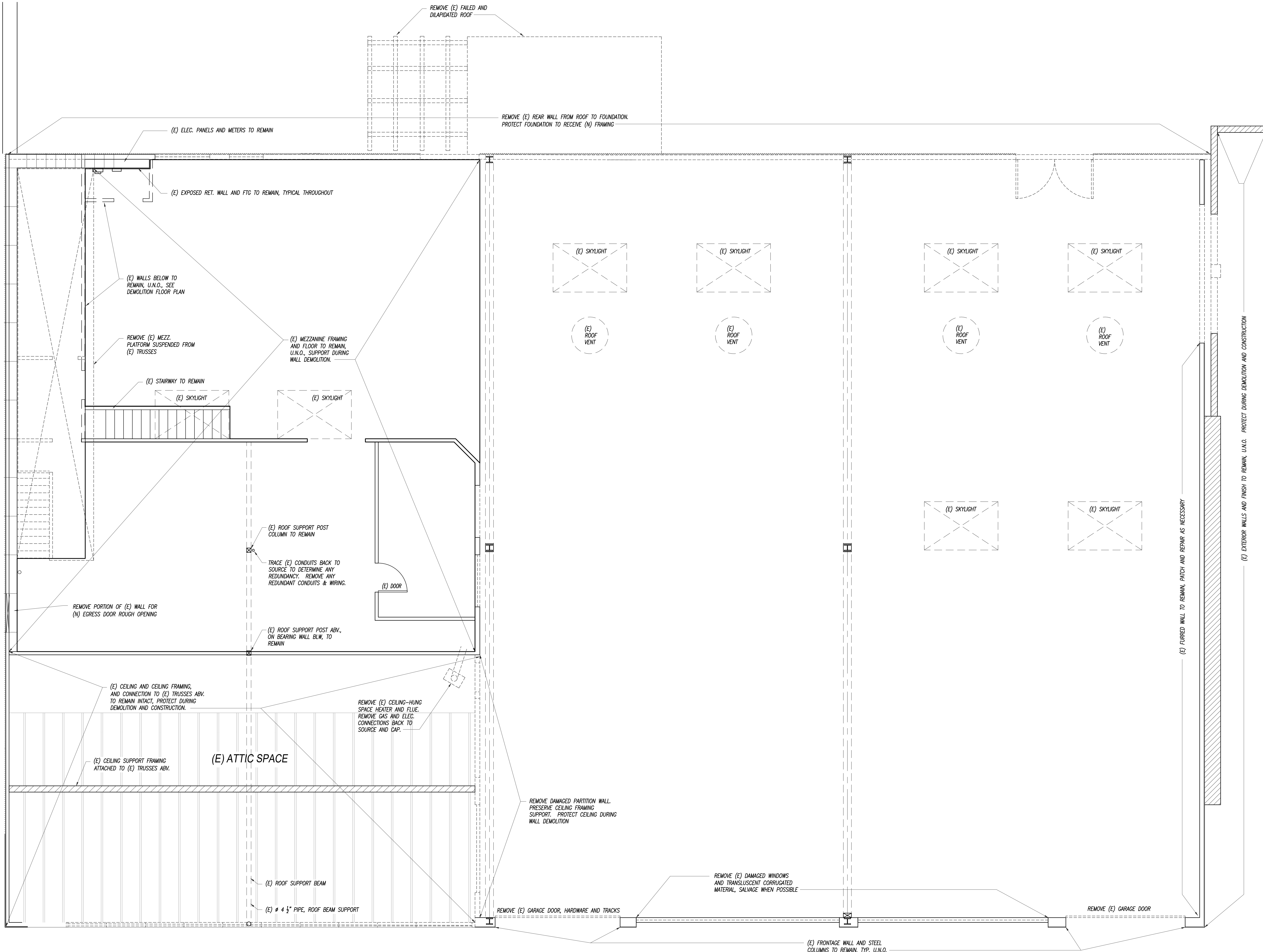
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DRAWN:	GCP
CHECK:	
DATE:	MARCH 02, 2022

PLANNING SET  
Not For Construction

**AD2.2**

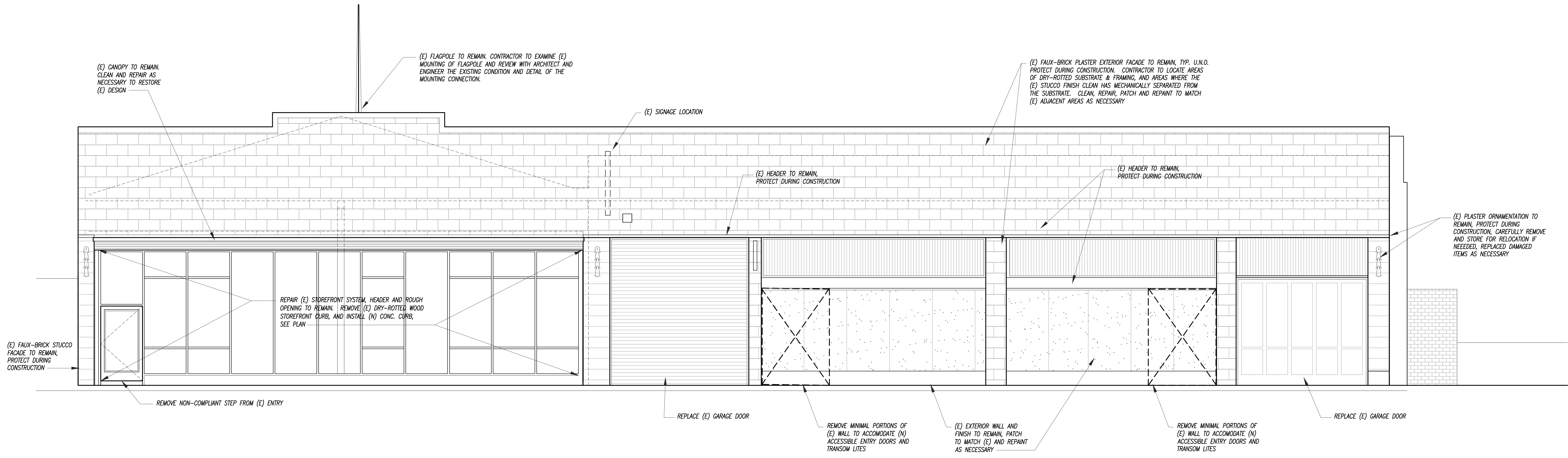


**1 DEMOLITION MEZZANINE PLAN**

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

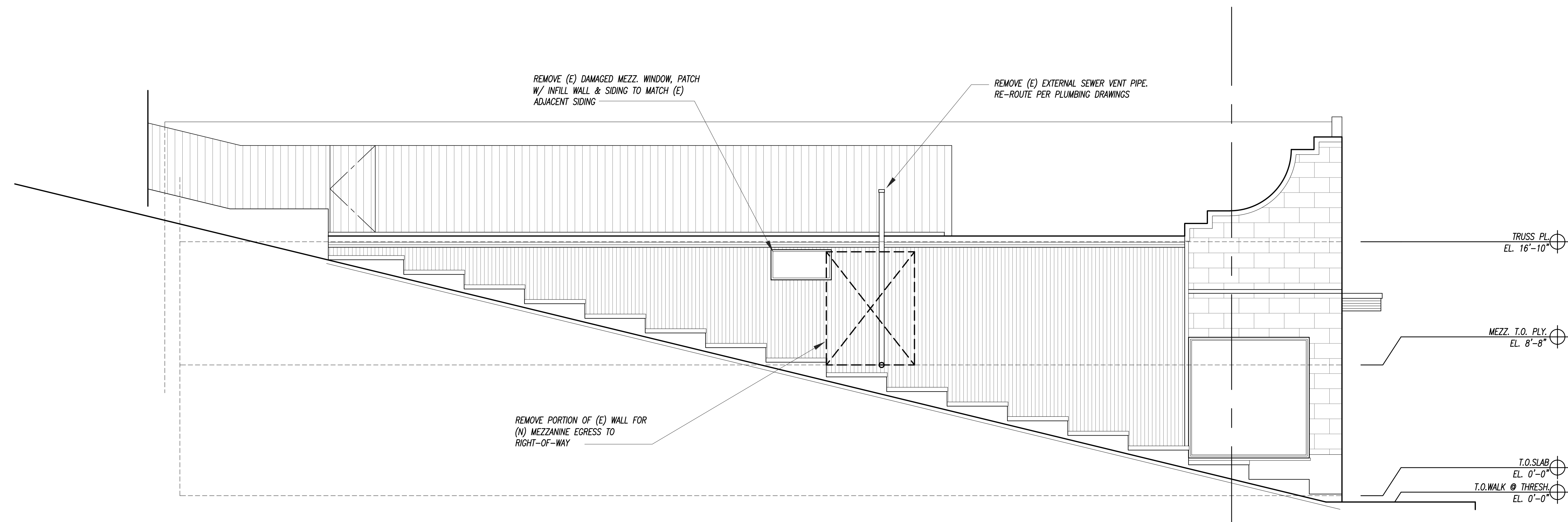






**1 EXISTING EAST (FRONTAGE) EXTERIOR ELEVATION**

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



**2 EXISTING NORTH EXTERIOR ELEVATION**

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

**EXISTING/DEMOLITION EXTERIOR ELEVATIONS**

**BUILDING SHELL AND TENANT IMPROVEMENTS FOR:**  
**Cara Racine**  
 301 PETALUMA BOULEVARD NORTH  
 PETALUMA, CALIFORNIA  
 APN: 006-161-022

**REVISIONS**

REV.	ITEM	DATE
1	PLANNING COMMENTS	12-12-22

DRAWN:	GCP
CHECK:	
DATE:	MARCH 02, 2022

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**AD5.1**



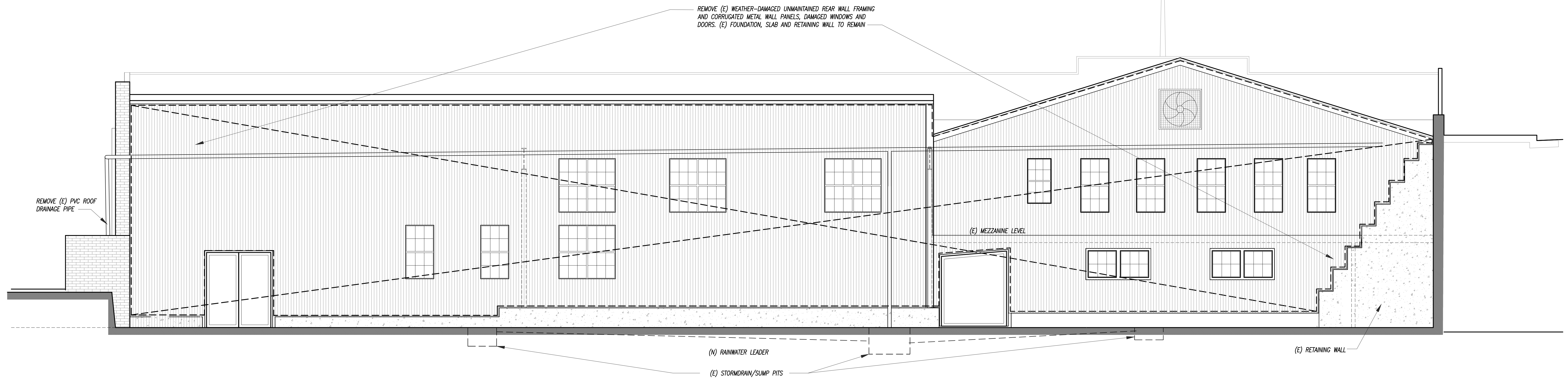
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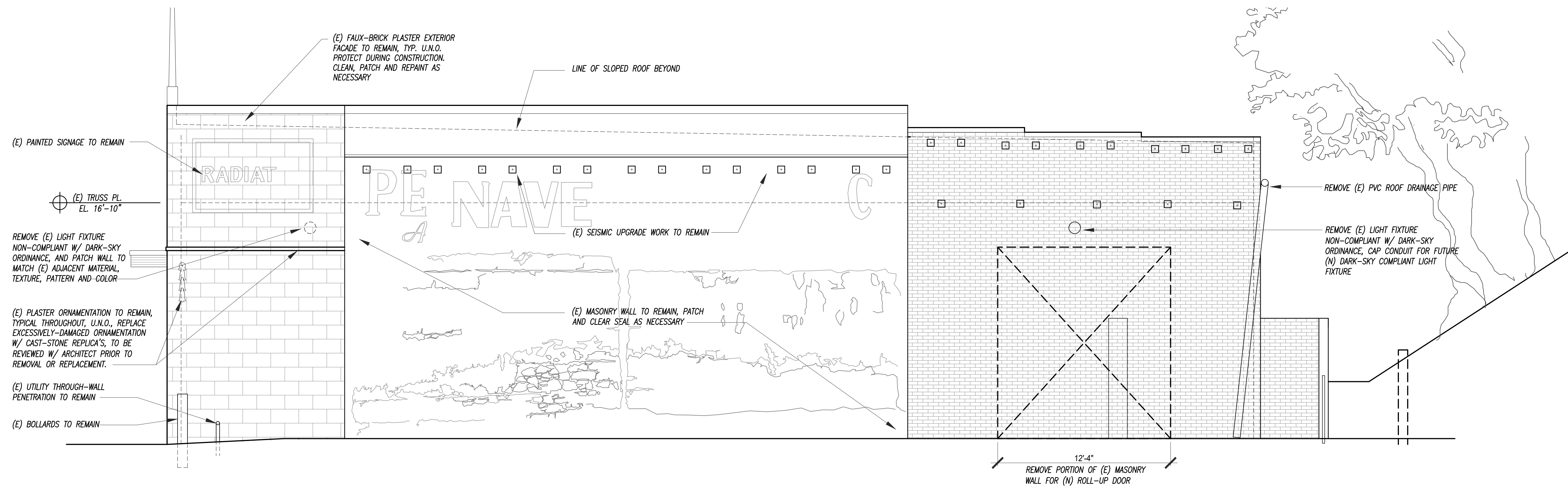
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**AD5.2**



**1** EXISTING WEST EXTERIOR ELEVATION

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



**2** EXISTING NORTH EXTERIOR ELEVATION

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



**PROPOSED FLOOR PLAN**

BUILDING SHELL AND TENANT IMPROVEMENTS FOR:

**Cara Racine**

301 PETALUMA BOULEVARD NORTH  
 PETALUMA, CALIFORNIA  
 APN: 006-161-022

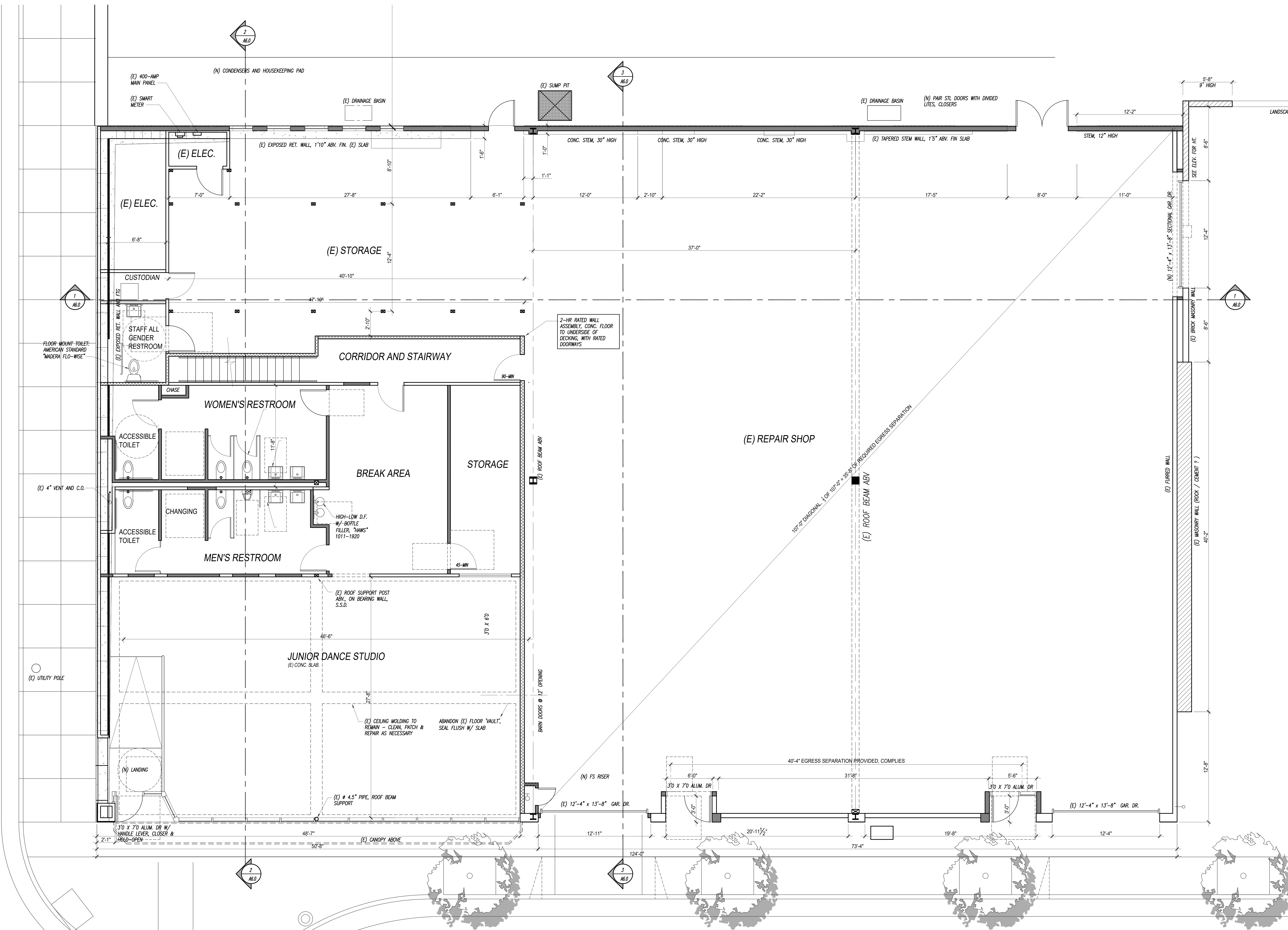
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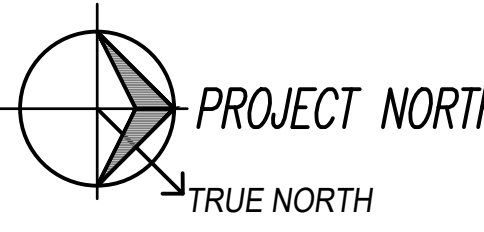
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**A2.1**



**PROPOSED FLOOR PLAN**

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



1



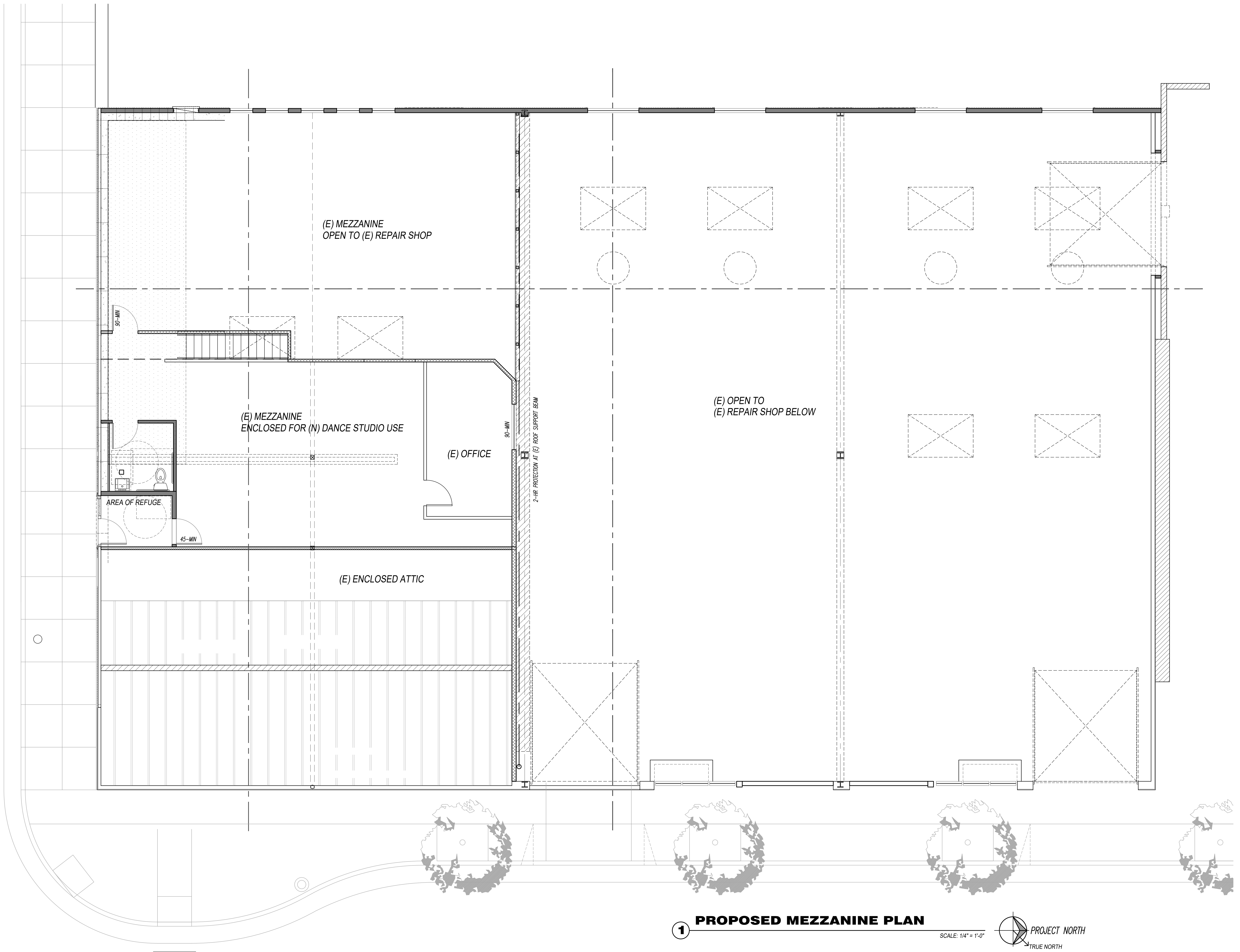
**PROPOSED  
MEZZANINE PLAN**

**BUILDING SHELL AND TENANT IMPROVEMENTS FOR:**  
**Cara Racine**  
301 PETALUMA BOULEVARD NORTH  
PETALUMA, CALIFORNIA  
APN: 006-161-022

REVISIONS		
REV.	ITEM	DATE
	PLANNING COMMENTS	12-12-22

DRAWN:	GCP
CHECK:	
DATE:	MARCH 02, 2022

PLANNING SET  
Not For Construction  
**A2.2**



**1 PROPOSED MEZZANINE PLAN**  
SCALE: 1/4" = 1'-0"  
PROJECT NORTH  
TRUE NORTH



**PROPOSED  
ROOF PLAN**

BUILDING SHELL AND TENANT IMPROVEMENTS FOR:

**Cara Racine**  
301 PETALUMA BOULEVARD NORTH  
PETALUMA, CALIFORNIA  
APN: 006-161-022

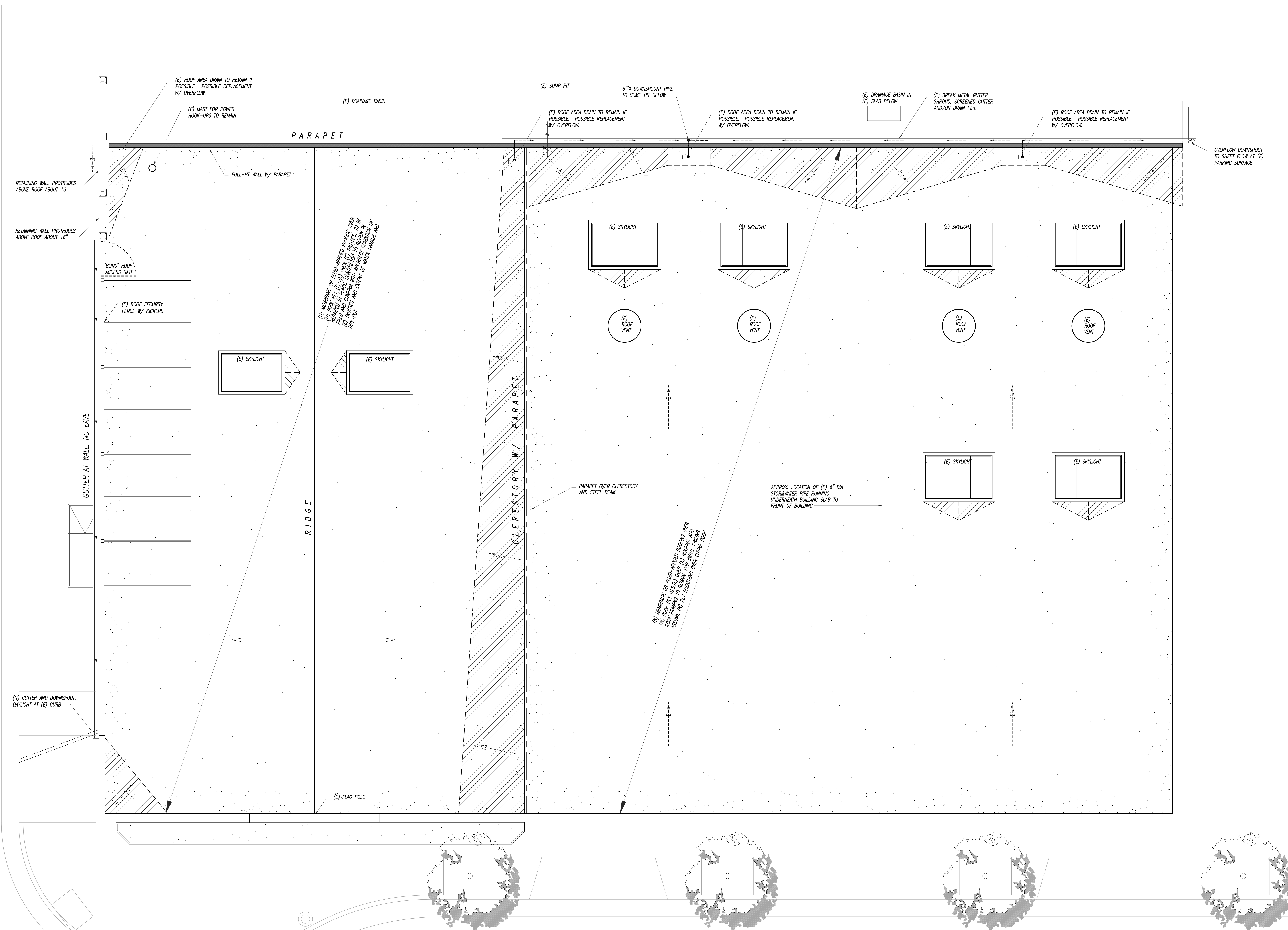
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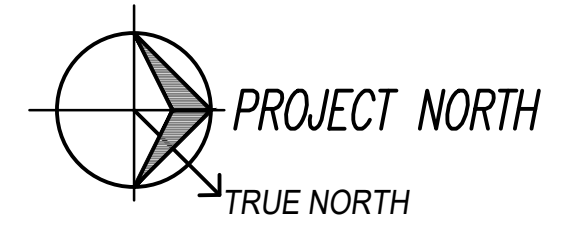
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**A4.1**



**1 PROPOSED ROOF PLAN**

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

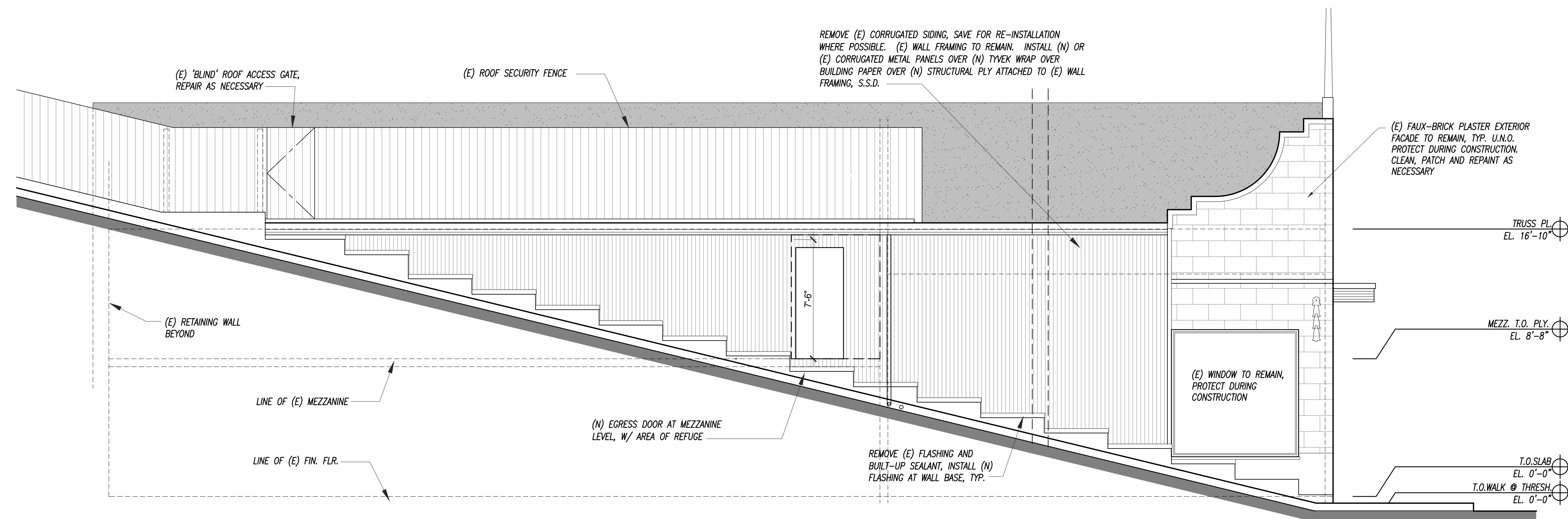






**1 PROPOSED (FRONTAGE) EXTERIOR ELEVATION**

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



**2 PROPOSED NORTH EXTERIOR ELEVATION**

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

PROPOSED  
EXTERIOR  
ELEVATIONS

BUILDING SHELL AND TENANT IMPROVEMENTS FOR:

**Cara Racine**  
301 PETALUMA BOULEVARD NORTH  
PETALUMA, CALIFORNIA

APN: 006-161-022

REVISIONS

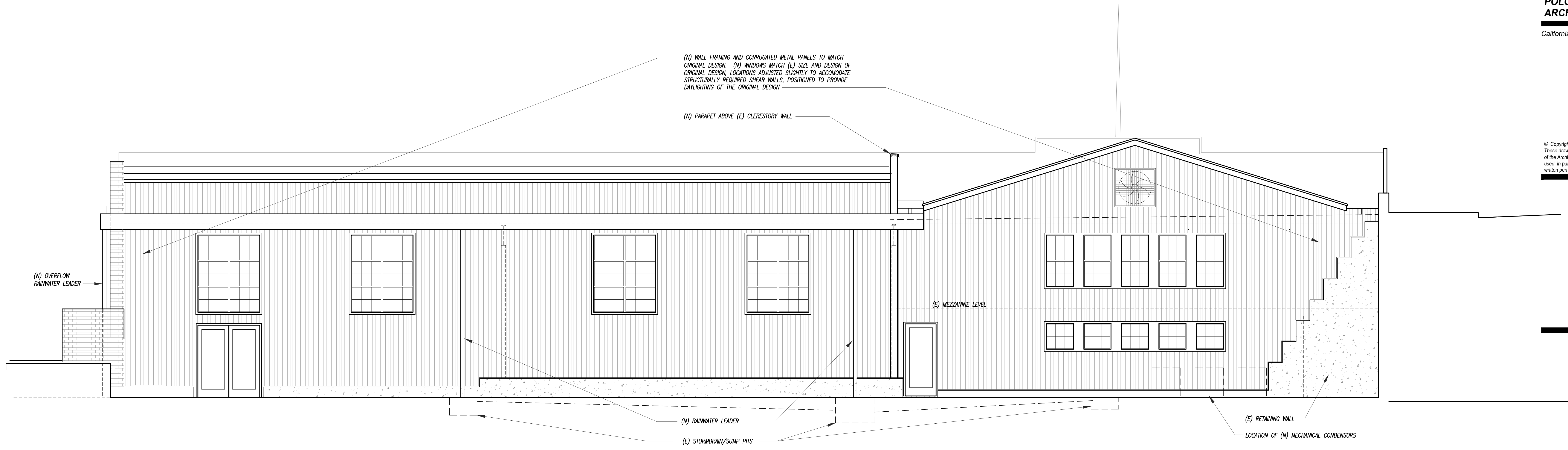
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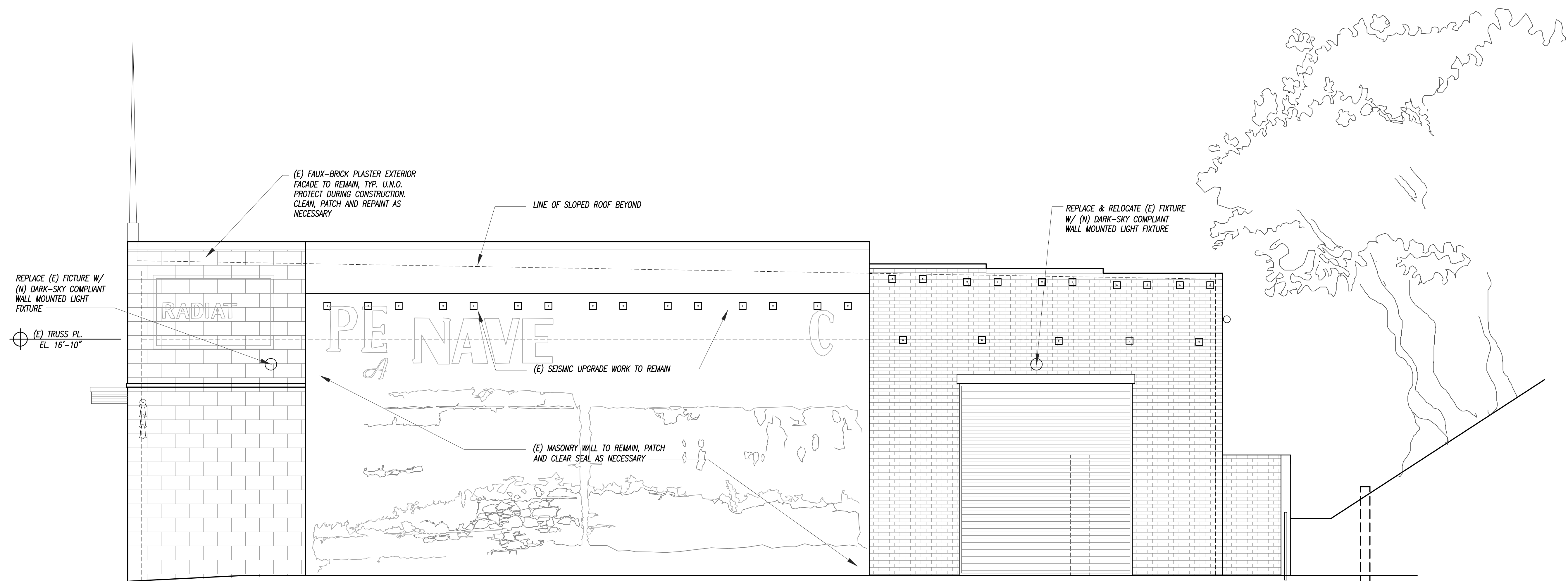
PLANNING SET  
Not For Construction

**A5.1**





**1 PROPOSED WEST EXTERIOR ELEVATION** SCALE: 1/4" = 1'-0"



**2 PROPOSED NORTH EXTERIOR ELEVATION** SCALE: 1/4" = 1'-0"

**PROPOSED  
EXTERIOR  
ELEVATIONS**

**BUILDING SHELL AND TENANT IMPROVEMENTS FOR:**  
**Cara Recine**  
301 PETALUMA BOULEVARD NORTH  
PETALUMA, CALIFORNIA  
APN: 006-161-022

REVISIONS		
REV.	ITEM	DATE
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DATE:	MARCH 02, 2022

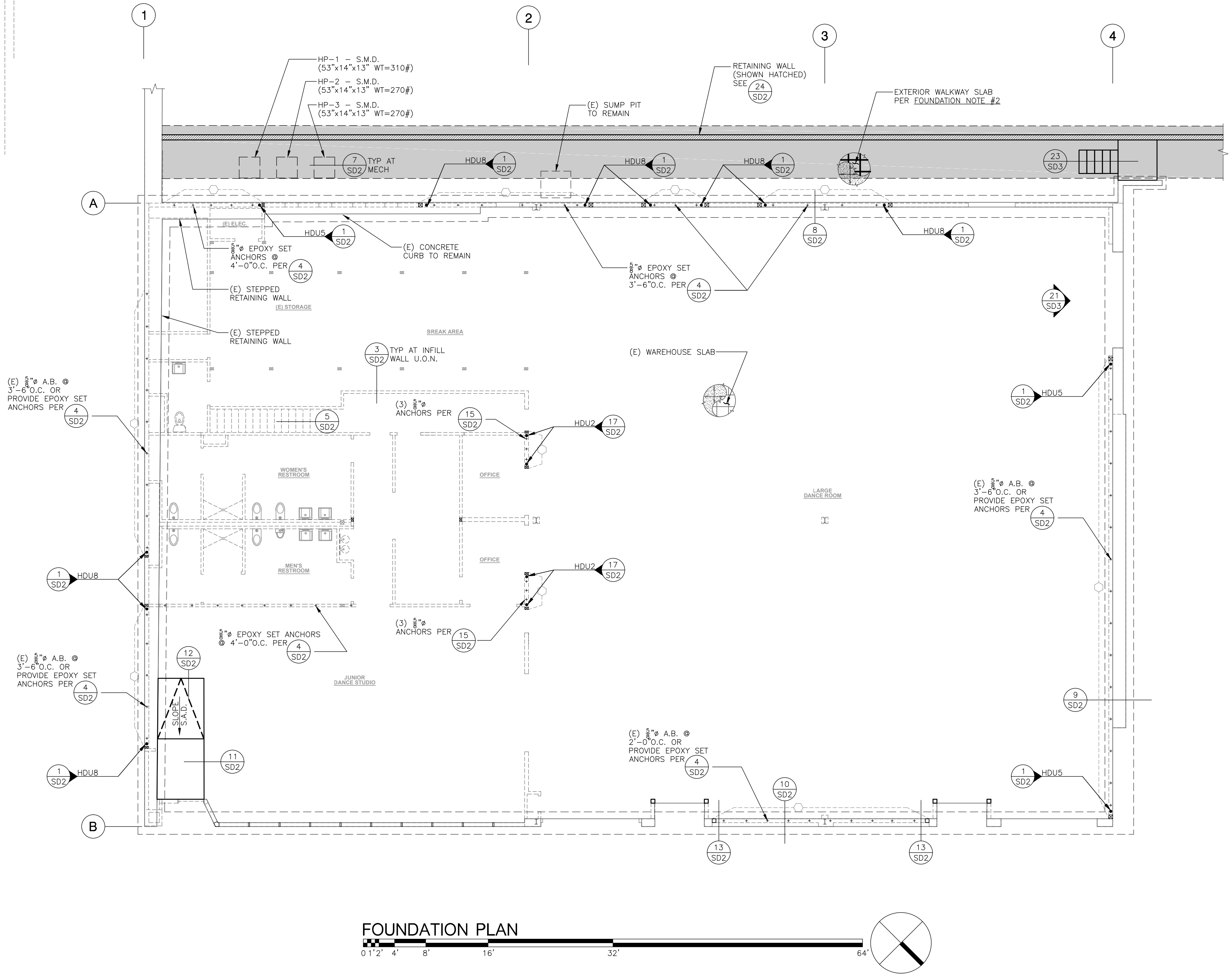
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**A5.2**







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**FOUNDATION PLAN**  
 0' 1' 2' 4' 8' 16' 32' 64'

- FOUNDATION NOTES**
- See "SD" sheet(s) for structural details and "SN" sheet(s) for structural notes.
  - Typical slab requirements:
    - WAREHOUSE:**
      - 6" thick with #4 bars @ 18" o.c. each way (1 1/2" clear from top of slab);
      - over vapor barrier (10 mil minimum S.A.D.);
      - over 4" minimum of compacted free-draining crushed rock; over compacted engineered fill.
    - EXTERIOR WALKWAYS:**
      - 5" thick with #3 bars @ 18" o.c. each way (1 1/2" clear from top of slab), for construction/control joints see Architectural drawings;
      - over 4" minimum of free-draining crushed rock; over compacted engineered fill.
  - See Architectural, Mechanical, Electrical, and Civil drawings, as applicable, for location of foundation penetrations.
  - See Architectural drawings for dimensions, concrete stoops, landings, mechanical pads, exterior walkways, steps, driveways, etc.
  - Finished grade to slope away from the building at a minimum slope of 5% for a minimum distance of 10 feet measured perpendicular to the exterior wall. If lot lines or obstructions prohibit 10 feet of slope, provide 2% slope to an approved alternate drainage method. Exterior paving, concrete slabs, or other impervious surfaces within 10 feet of the foundation to be sloped a minimum of 2% away from the building.
  - Provide construction joint and control joints per plan. Pour slab in alternate strips between construction joints. Allow a minimum of 24 hours between alternate strips and closure pours. See typical details. The discharge of roof gutter downspouts to be collected as follows:
    - Into rigid non-perforated pipes that discharge away from the structure per the Soil Report and Civil Engineer. Non-perforated pipes to not be connected to perforated drain piping.

WALL LEGEND	
SYMBOL	DESCRIPTION
	(E) WALL
	(N) WALL
	(N) OR (E) INTERIOR BEARING WALL*
	WALL ABOVE

\* SPLICE FRAMING MEMBERS ONLY OVER BEARING WALLS OR BEAMS

FOUNDATION LEGEND	
SYMBOL	DESCRIPTION
	(E) FOUNDATION
	(N) FOUNDATION
	(N) PAD

**MKM Associates**  
 ESTABLISHED 1978  
 5880 Commerce Blvd. Suite 105  
 Richmond Park, CA 94928  
 Phone: (707) 578-8152  
 Fax: (707) 578-7153  
 Internet: www.mkmassociates.com

REGISTERED PROFESSIONAL ENGINEER  
 No. 58,292  
 CIVIL  
 STATE OF CALIFORNIA  
 8/11/2022

PROJECT MANAGER  
 Josh Wallace

**STRUCTURAL OBSERVATION REQUIRED**  
 SEE "STRUCTURAL OBSERVATION" NOTES ON SHEET SN1

**301 NORTH PETALUMA BLVD. T.I.**  
**301 NORTH PETALUMA BLVD.**  
**PETALUMA, CALIFORNIA 94952**

**FOR PLAN VIEW ONLY**

DATE: 11-27-2018  
 BUILDING PERMIT APPLICATION  
 03-11-2018  
 BUILDING PERMIT APPLICATION  
 02-04-2018

**ISSUE INFORMATION**  
 Designer: JENNIFER  
 PD: ER SR#: --  
 Job No: 210101  
 File: 210101S1  
 Plot Date: 8/11/2022  
 Sheet Title:  
**FOUNDATION PLAN**  
 Sheet  
**S1**

**LOWER FLOOR FRAMING NOTES**

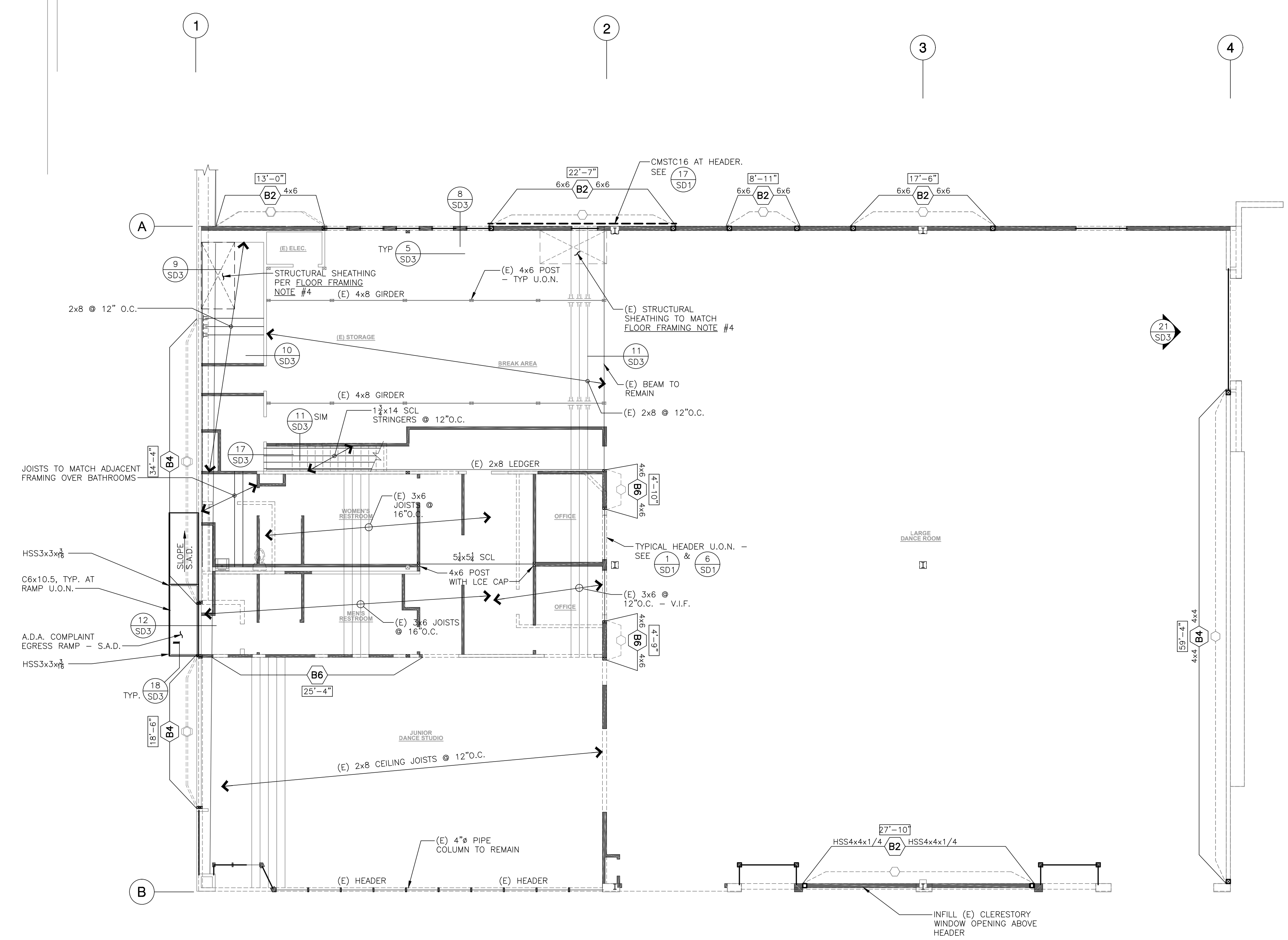
1. See "SD" sheet(s) for structural details and "SN" sheet(s) for structural notes.
2. Structural sheathed walls are designated per **SYMBOLS LEGEND** on sheet SN1 and are below the level of framing shown unless otherwise noted. See "Structural Wall Sheathing Schedule" on sheet SD1 for specific and general requirements. All structural wall sheathing to be continuous at intersecting walls per detail 13/SD1 unless otherwise noted.
3. Sheathe all exterior walls per "Structural Wall Sheathing Schedule" type "B2" unless otherwise noted. Sheathe all specified interior walls per plans and "Structural Wall Sheathing Schedule" on sheet SD1.
4. Floor to be sheathed with APA rated sheathing, 48/24, Exposure 1, 23/32" minimum thickness, tongue and groove. Install sheets with face grain perpendicular to supports. Stagger sheets and glue and nail with 8d at 6" o.c. edges and 12" o.c. fields. (Option: Strong Drive WDG25 screws) Typical, unless otherwise noted. Provide sheets not less than 4'-0" x 8'-0" except at boundaries and changes in framing. Minimum sheet size to be 24" x 48" unless all edges of undersized sheets are supported by and fastened to framing members or blocking.
5. Walls above shown dashed.

21010152 5088 10-26-20

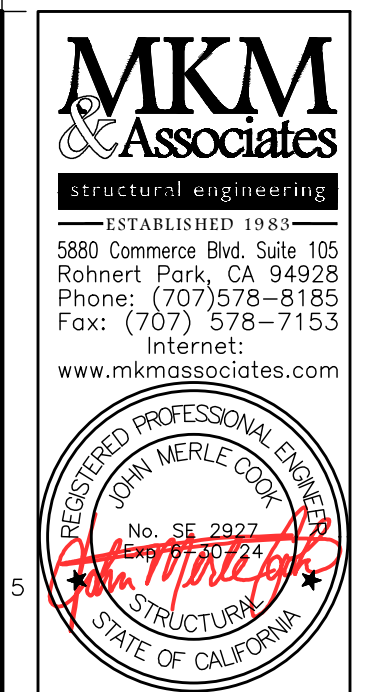
WALL LEGEND	
SYMBOL	DESCRIPTION
	(E) WALL
	(N) WALL
	(N) OR (E) INTERIOR BEARING WALL*
	WALL ABOVE

\* SPLICE FRAMING MEMBERS ONLY OVER BEARING WALLS OR BEAMS

**NOTE: REMOVE AND REPLACE IN KIND ANY DAMAGED OR ROTTED MEMBERS, OR TO TEST ALL MEMBERS WITH VISIBLE SAGGING, WATER STAINING, OR ANY OTHER VISUAL INDICATORS EXISTING. MEMBERS ARE NOT STRUCTURALLY SUITABLE. TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO, A PENETRATION TEST OF THE MEMBER. IF THE TESTING TOOL IS ABLE TO PENETRATE THE MEMBER MORE THAN 1/2", THE MEMBER IS CONSIDERED DAMAGED AND MUST BE REPAIRED OR REPLACED AS SPECIFIED IN THESE DRAWINGS OR BY EOR.**



**MEZZANINE PLAN**



ESTABLISHED 1977  
 5880 Commerce Blvd. Suite 105  
 Robert Park, CA 94928  
 Phone: (707) 578-8182  
 Fax: (707) 578-7153  
 Internet: www.mkmassociates.com

8/11/2022

PROJECT MANAGER  
 Josh Wallace

**STRUCTURAL OBSERVATION REQUIRED**

SEE "STRUCTURAL OBSERVATION" NOTES ON SHEET SN1

301 NORTH PETALUMA BLVD. T.I.  
 301 NORTH PETALUMA BLVD.  
 PETALUMA, CALIFORNIA 94952

**FOR PLAN VIEW ONLY**

02-04-22-IRB-1-ER-PROGRESS SET

**ISSUE INFORMATION**

Designer: JENNIFER

PB: ER SR#: --

Job No: 210101

File: 21010152

Plot Date: 8/11/2022

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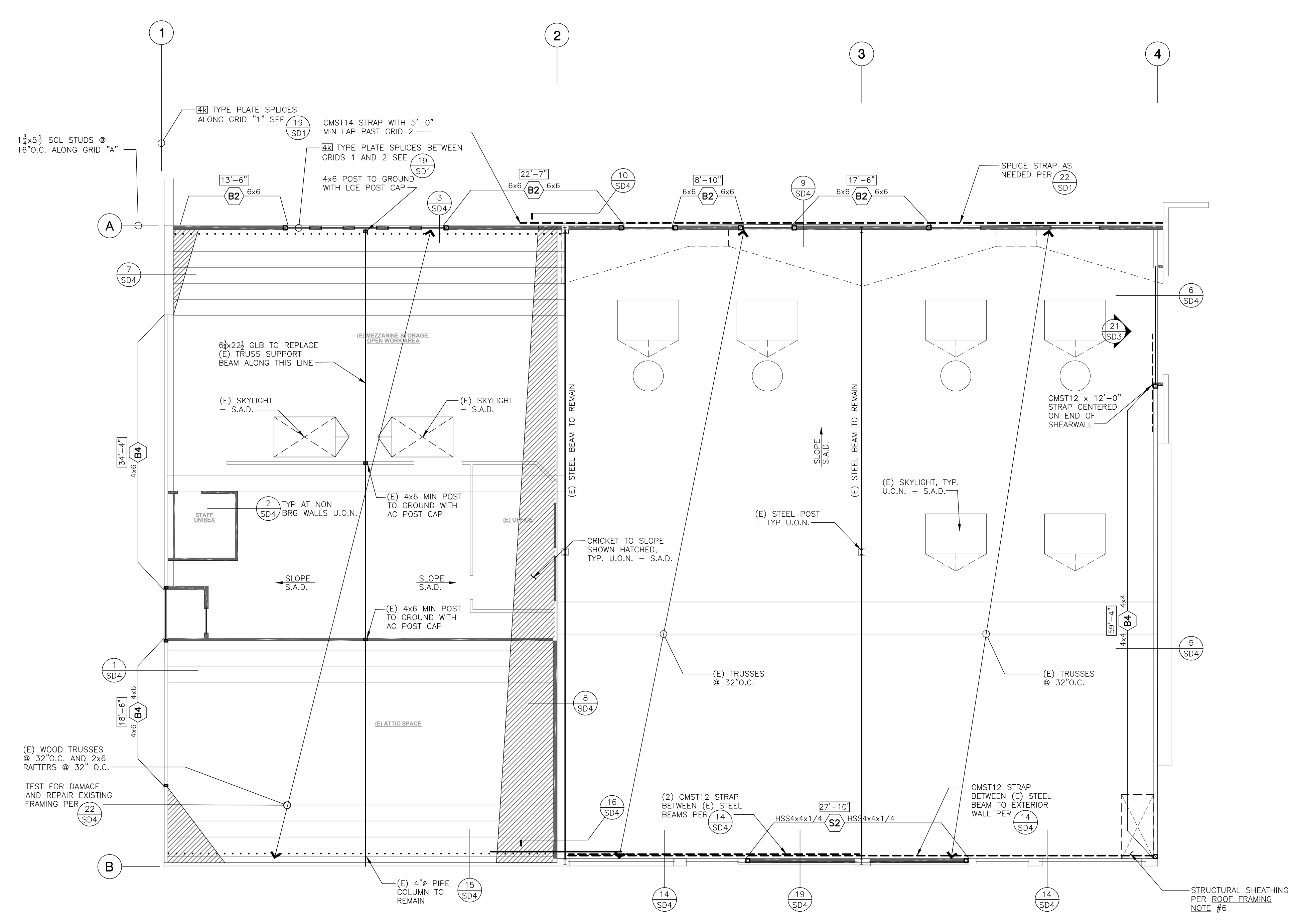
**MEZZANINE PLAN**

Sheet

**S2**



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ROOF FRAMING PLAN



ROOF FRAMING NOTES

- See Sheet SN1 for "STRUCTURAL NOTES"
- For general construction details not noted on plans, see typical details.
- Elevations shown are to top of sheathing, unless otherwise noted.
- All mechanical unit positions, weights and supports to be verified by the engineer prior to placement on roof.
- Shear walls are below the level of framing shown unless otherwise noted. See shear wall schedule for specific requirements.
- Typical Roof Sheathing:
  - Install sheath with face grain perpendicular to supports. Provide sheath not less than 4'-0" x 8'-0" except at boundaries and changes in framing. Minimum sheet size to be 24" x 48" unless all edges of undersized sheath are supported by and fastened to framing members or blocking.
  - 2x6 Decking Below
  - APA rated sheathing, 32/16, Exposure 1, 15/32" minimum thickness. Stagger sheets.
  - Edge Nail: 16d at 6" o.c.
  - Field Nail: 16d at 12" o.c. U.O.N.
- Note: Contractor to verify use of plywood with roofing contractor. Provide additional joist to align with structural wall as indicated on plans. Edge nail sheathing to member for its entire length. Provide straps as indicated.

WALL LEGEND	
SYMBOL	DESCRIPTION
(E) WALL	(E) WALL
(N) WALL	(N) WALL
(N) OR (E) INTERIOR BEARING WALL*	(N) OR (E) INTERIOR BEARING WALL*
WALL ABOVE	WALL ABOVE
* SPLICE FRAMING MEMBERS ONLY OVER BEARING WALLS OR BEAMS	

NOTE: REMOVE AND REPLACE IN KIND ANY DAMAGED OR ROTTED MEMBERS. GC TO TEST ALL MEMBERS WITH VISIBLE SAGGING, WATER STAINING, OR ANY OTHER VISUAL INDICATORS EXISTING MEMBERS ARE NOT STRUCTURALLY SUITABLE. TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO, A PENETRATION TEST OF THE MEMBER. IF THE TESTING TOOL IS ABLE TO PENETRATE THE MEMBER MORE THAN 1/2" THE MEMBER IS CONSIDERED DAMAGED AND MUST BE REPAIRED OR REPLACED AS SPECIFIED IN THESE DRAWINGS OR BY EOR.



PROJECT MANAGER  
Josh Wallace

STRUCTURAL OBSERVATION REQUIRED

SEE "STRUCTURAL OBSERVATION" NOTES ON SHEET SN1

301 NORTH PETALUMA BLVD. T.I.  
301 NORTH PETALUMA BLVD.  
PETALUMA, CALIFORNIA 94952

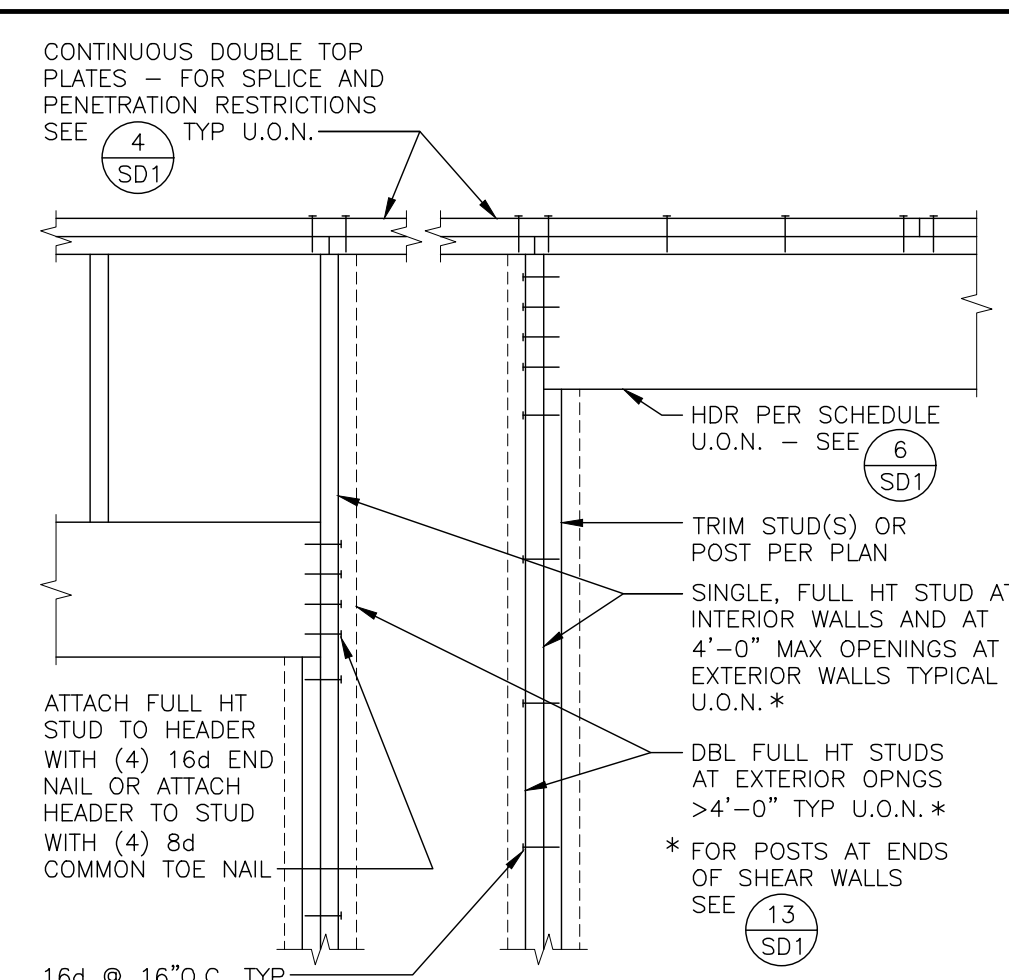
FOR PLAN REVIEW ONLY

ISSUE INFORMATION  
Designer: JENNIFER

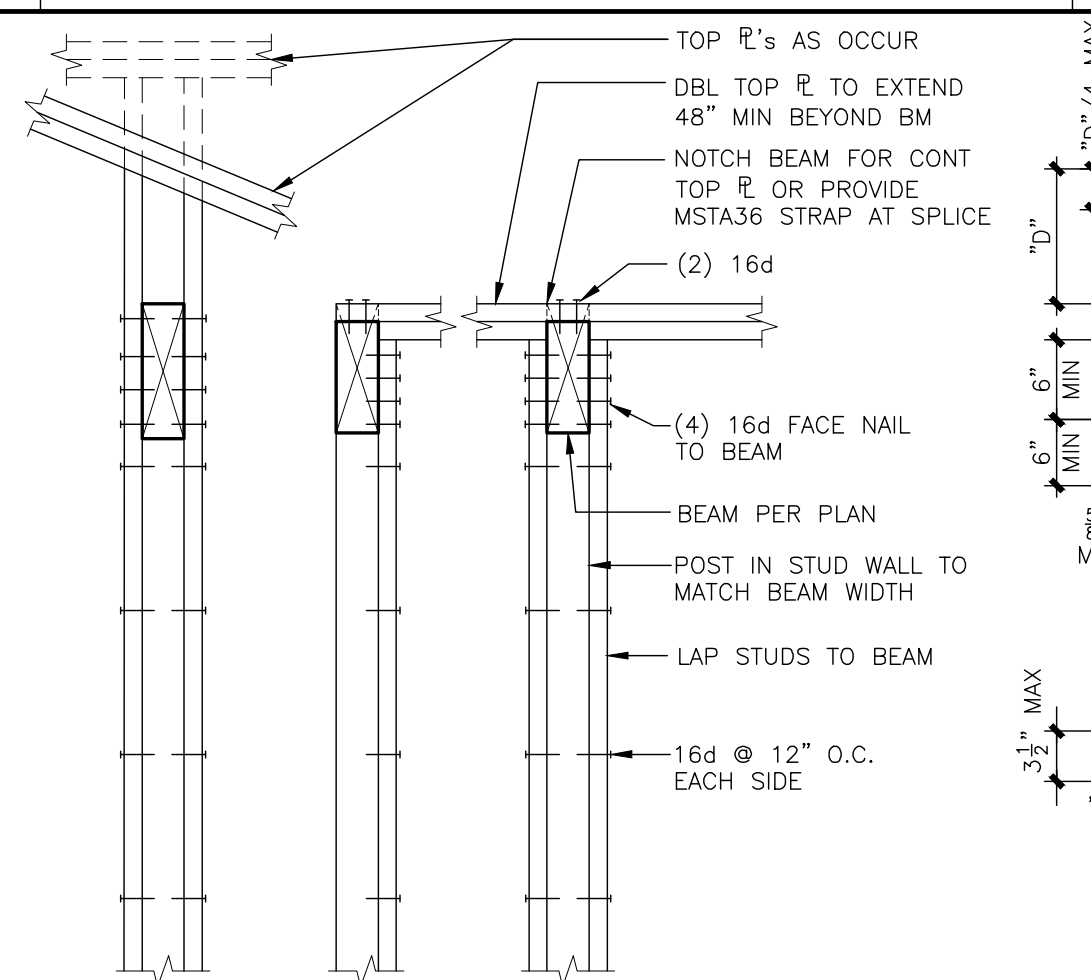
Job No: 210101  
Plot Date: 8/11/2022

Sheet  
S3

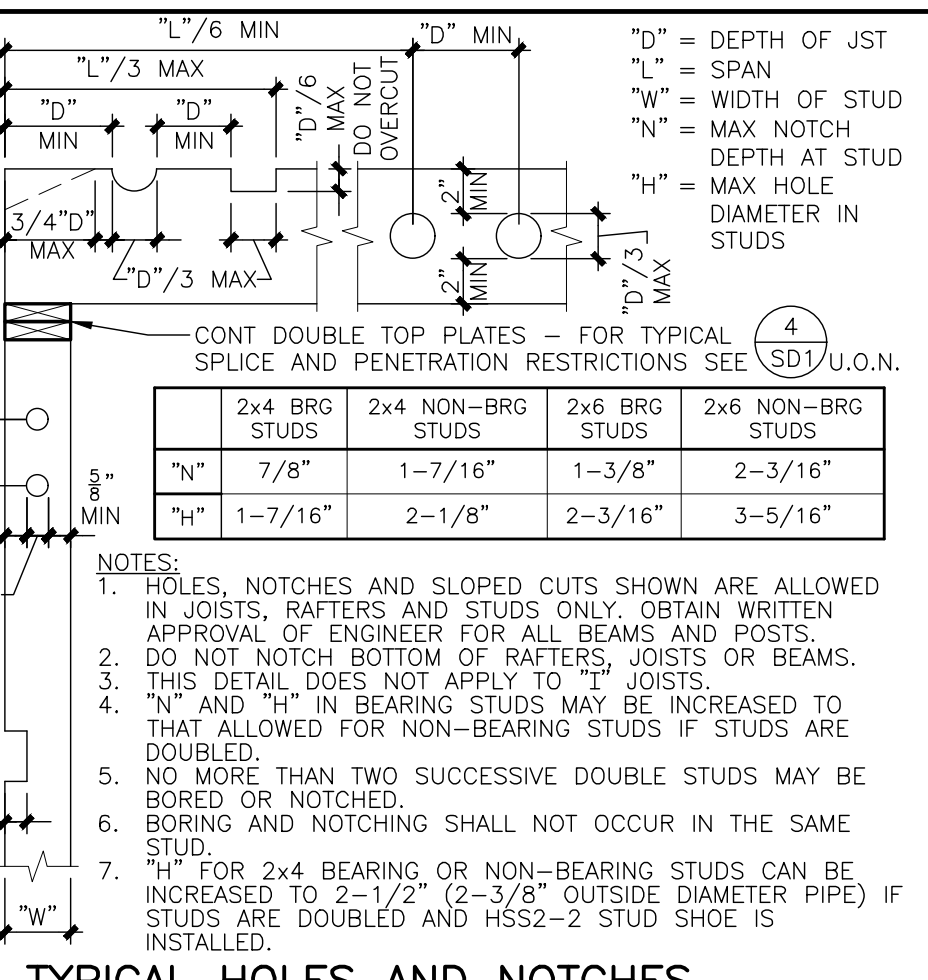




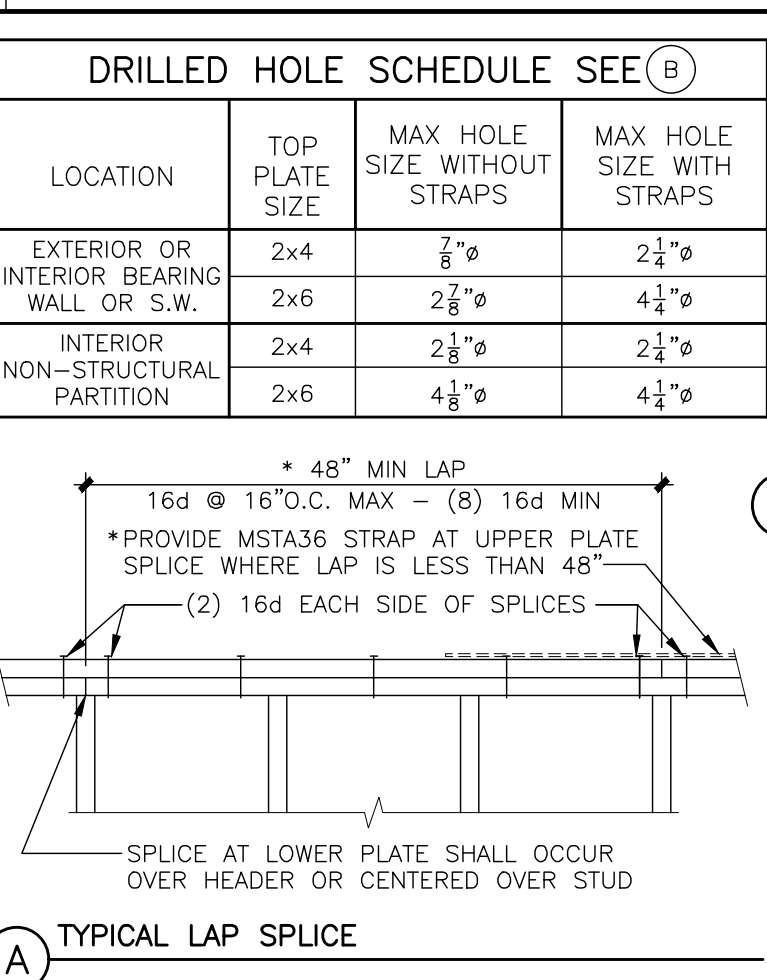
1 TYPICAL WALL FRAMING  
D3/4  
1, A2 210101SD1 4811 09-11-13 1x1



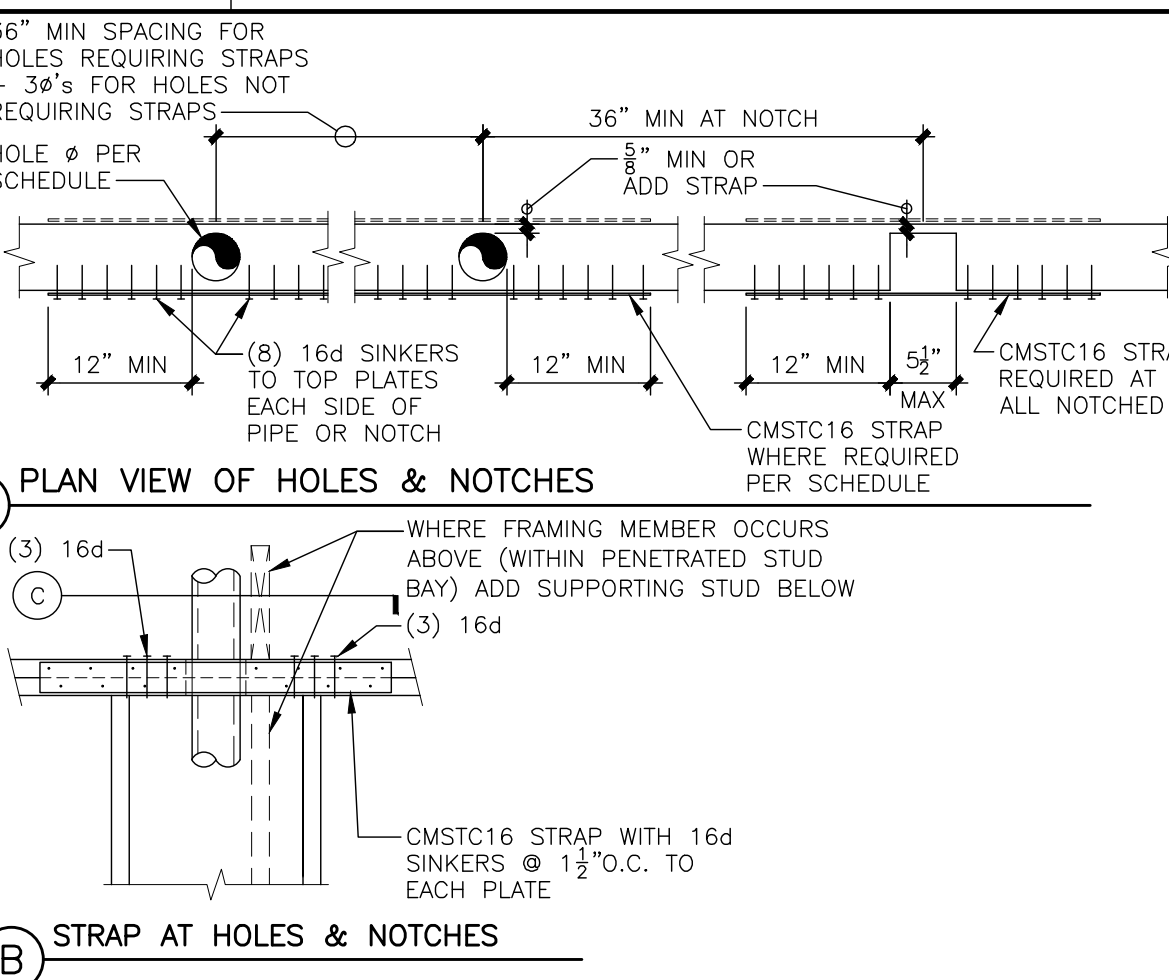
2  
D3/4  
1, A2 210101SD1 4801 08-28-20 1x1



3 TYPICAL HOLES AND NOTCHES IN JOISTS, RAFTERS & STUDS  
D3/4  
1, A2 210101SD1 4802 11-08-07 1x1



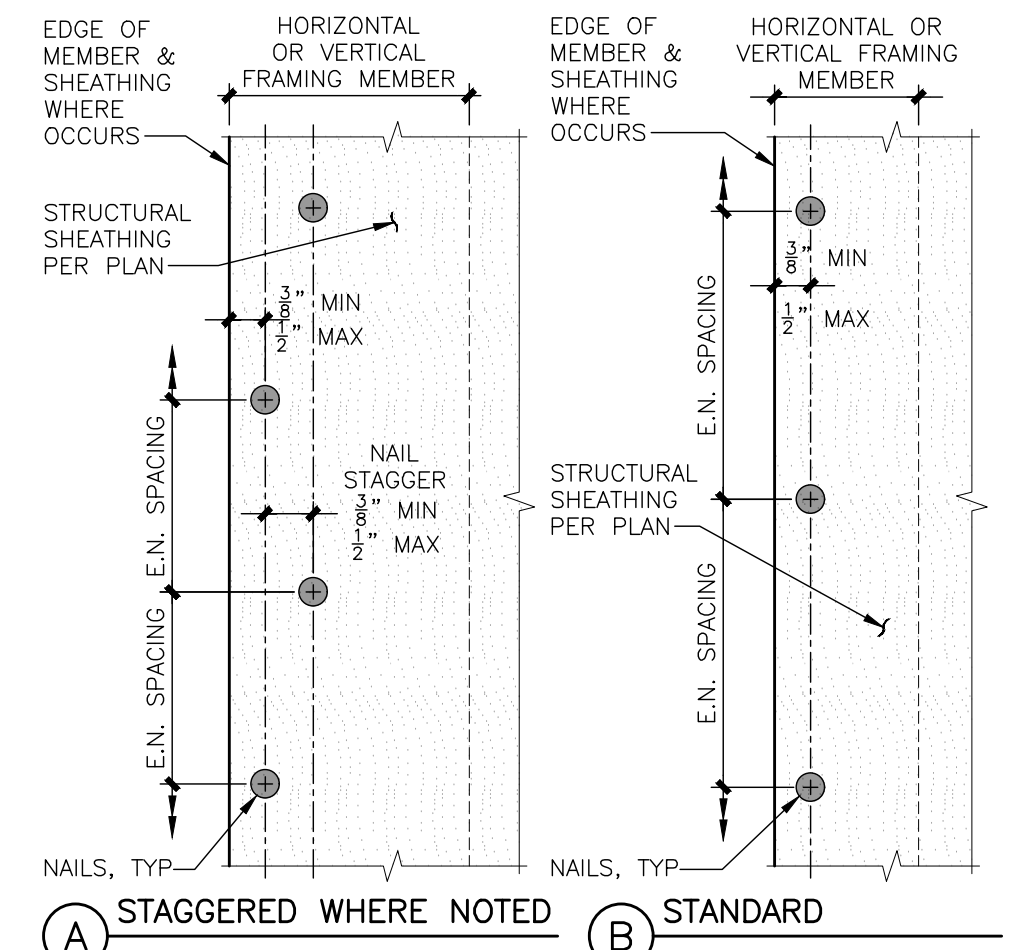
4 TYPICAL TOP PLATE SPLICE AND ALLOWABLE PENETRATIONS  
D3/4



5 PLAN VIEW OF HOLES & NOTCHES  
D3/4

OPENING SIZE	EXTERIOR & INTERIOR BEARING WALLS AT LOWER LEVELS OF MULTISTORY		EXTERIOR & INTERIOR BEARING WALLS AT UPPERMOST LEVEL		INTERIOR NON-BEARING	
	3 1/2" WALL	5 1/2" WALL	3 1/2" WALL	5 1/2" WALL	3 1/2" WALL	5 1/2" WALL
≤ 4'-0"	4x8	6x6	4x8	6x6	4x4	4x6 (FLAT)
≤ 6'-0"	4x12 OR 3 1/2 x 9 1/2 SCL	5 1/2 x 9 1/2 SCL	4x10	6x8	4x6	6x6
≤ 8'-0"	3 1/2 x 9 1/2 SCL	5 1/2 x 9 1/2 SCL	4x12 OR 3 1/2 x 9 1/2 SCL	5 1/2 x 9 1/2 SCL	4x8	6x8
≤ 10'-0"	3 1/2 x 11 1/2 SCL	5 1/2 x 9 1/2 SCL	3 1/2 x 9 1/2 SCL	5 1/2 x 9 1/2 SCL	4x10	5 1/2 x 9 1/2 SCL

6 TYPICAL HEADER SCHEDULE  
D1  
1, 11E 210101SD1 4628 07-18-16 1x1

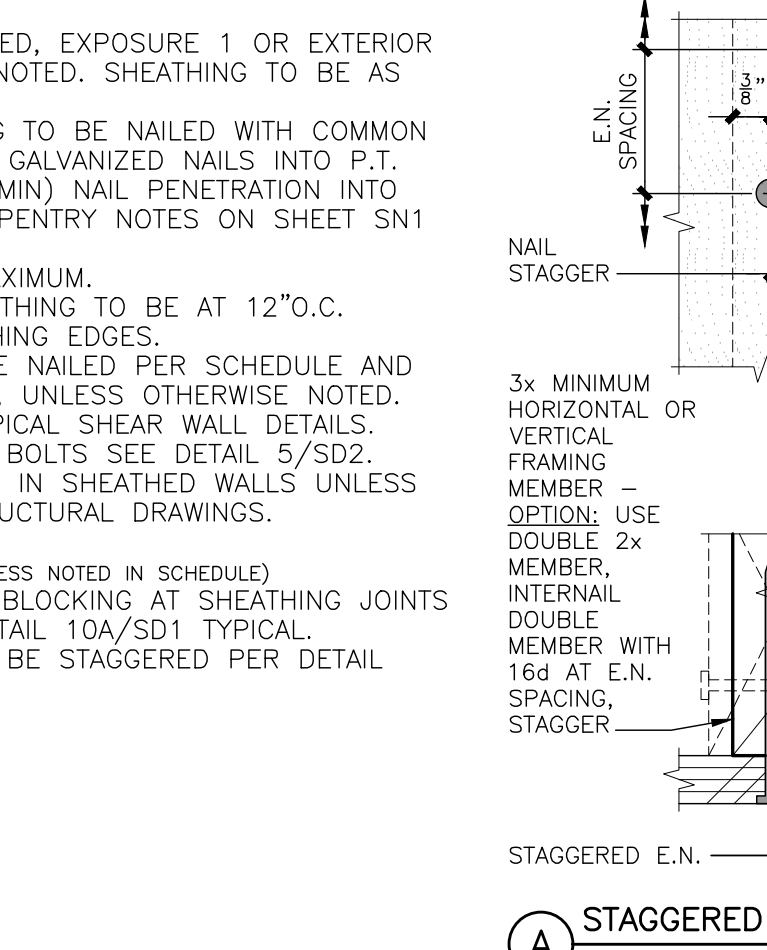


7 TYPICAL SHEATHING EDGE NAILING  
D2  
1, A2 210101SD1 4805A 12-19-06 1x1

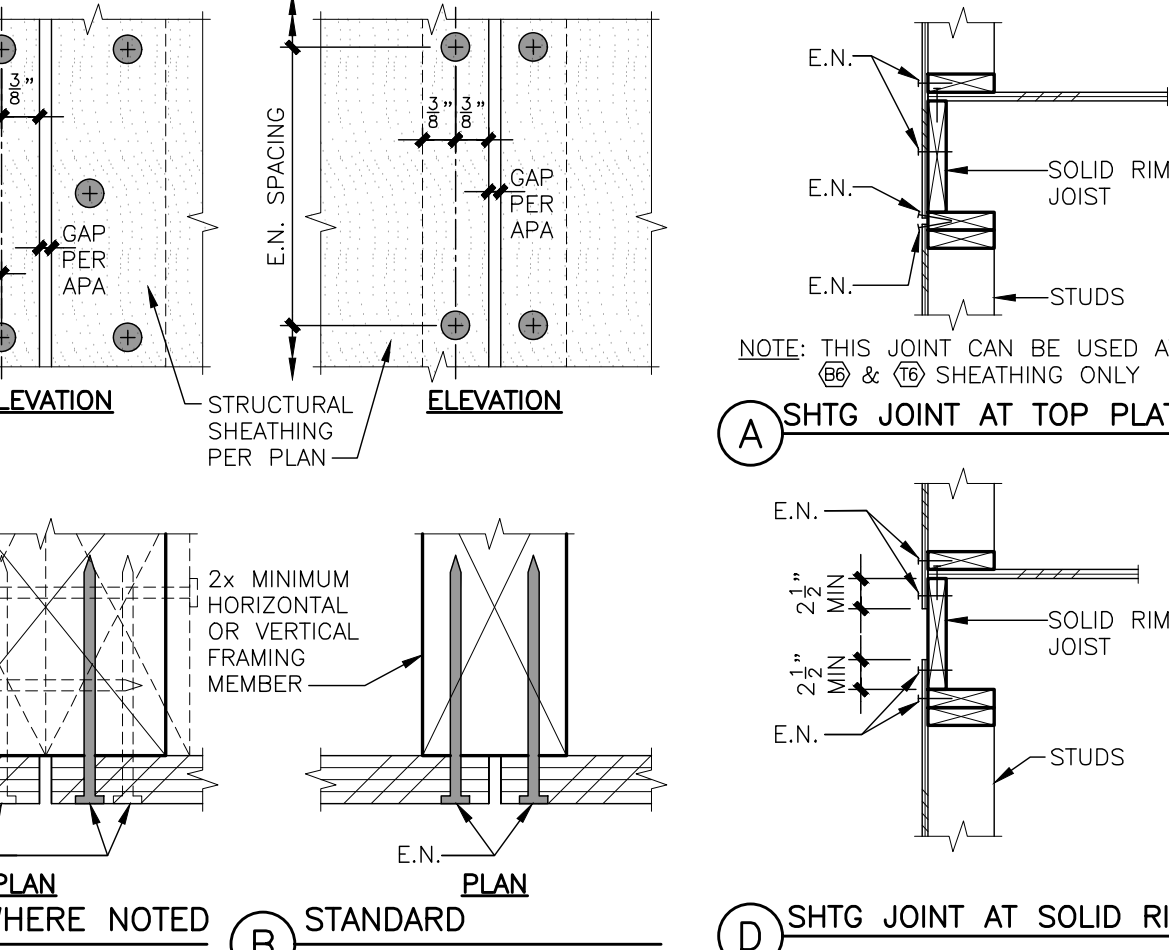
SYM	MIN SHTG THK; PANEL INDEX (PI)	EDGE NAILING	ANCHOR BOLTS; SOLE R NAILING	ACCEPTABLE SHTG JOINTS PER DETAIL 11/SD1	REMARKS
B6	15/32"; 32/16	10d @ 6" O.C.	SEE 1/SD2 & NOTE 13	A B C D E	TYP AT EXT WALLS, U.O.N.
B4	15/32"; 32/16	10d @ 4" O.C.	PER PLAN	B C D E	SEE SPECIAL NOTES 10 & 11
B3	15/32"; 32/16	10d @ 3" O.C.	PER PLAN	B C D E	SEE SPECIAL NOTES 10 & 11
B2	15/32"; 32/16	10d @ 2" O.C.	PER PLAN	C D	SEE SPECIAL NOTES 10 & 11
B3/B2	15/32"; 32/16 BOTH SIDES	10d @ 3" O.C. BOTH SIDES	PER PLAN	C AND AS DETAILED ON PLANS/DRAWINGS	SEE SPECIAL NOTES 10 & 11
S2	STRUCTURAL I 15/32"	10d @ 2" O.C.	PER PLAN	C D	SEE SPECIAL NOTES 10 & 11

8 TYPICAL STRUCTURAL WALL SHEATHING SCHEDULE  
D3/4  
SEE TYPICAL NOTES 1-9

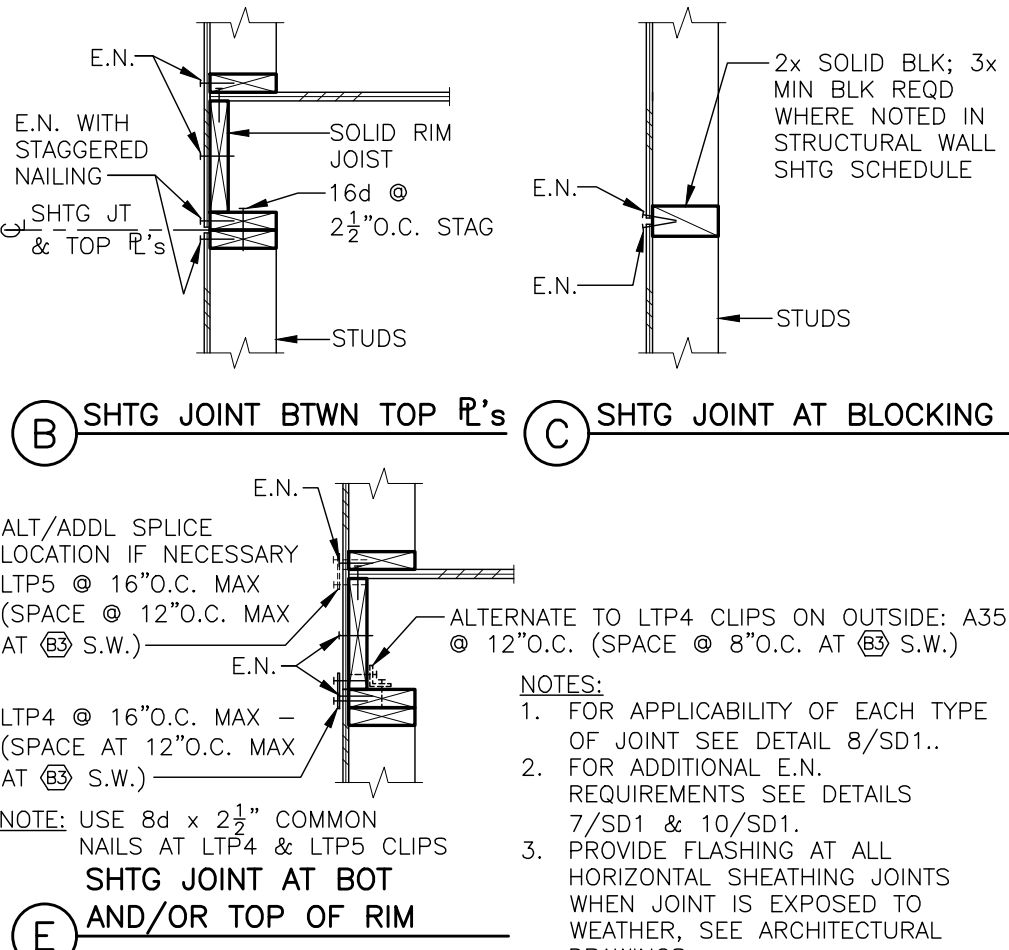
TYPICAL NOTES:  
1. SHEATHING TO BE A.P.A. RATED, EXPOSURE 1 OR EXTERIOR GRADE, UNLESS OTHERWISE NOTED. SHEATHING TO BE AS LARGE AS POSSIBLE.  
2. STRUCTURAL WALL SHEATHING TO BE NAILED WITH COMMON NAILS. PROVIDE HOT-DIPPED GALVANIZED NAILS INTO P.T. FRAMING. PROVIDE 1-1/2" (MIN) NAIL PENETRATION INTO FRAMING MEMBERS. SEE CARPENTRY NOTES ON SHEET SN1 FOR OTHER REQUIREMENTS.  
3. STUDS TO BE AT 16" O.C. MAXIMUM.  
4. FIELD NAILING FOR ALL SHEATHING TO BE AT 12" O.C.  
5. BLOCK AND NAIL ALL SHEATHING EDGES.  
6. ALL SHEATHING EDGES TO BE NAILED PER SCHEDULE AND DETAILS 7/SD1 AND 10/SD1, UNLESS OTHERWISE NOTED.  
7. SEE DETAIL 13/SD1 FOR TYPICAL SHEAR WALL DETAILS.  
8. FOR HOLD-DOWN AND ANCHOR BOLTS, SEE DETAIL 5/SD2.  
9. OPENINGS ARE NOT ALLOWED IN SHEATHED WALLS UNLESS SPECIFICALLY NOTED ON STRUCTURAL DRAWINGS.  
SPECIAL NOTES: (NOT APPLICABLE UNLESS NOTED IN SCHEDULE)  
10. USE 3x MINIMUM STUDS OR BLOCKING AT SHEATHING JOINTS AND STAGGER NAILS PER DETAIL 10A/SD1 TYPICAL.  
11. ALL EDGE NAILING (E.N.) TO BE STAGGERED PER DETAIL 7A/SD1.



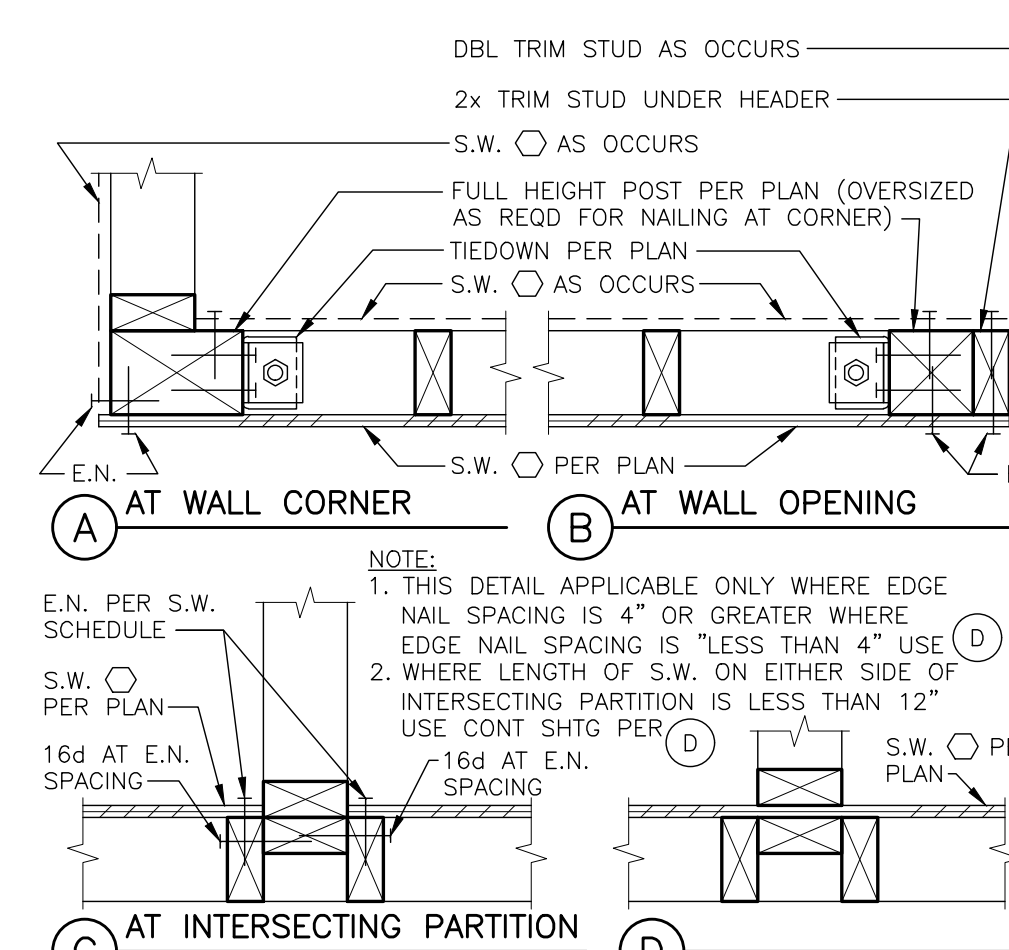
9 TYPICAL SHEATHING JOINT NAILING  
D1/1/2  
1C 210101SD1 4808B 01-30-17 2.5x1



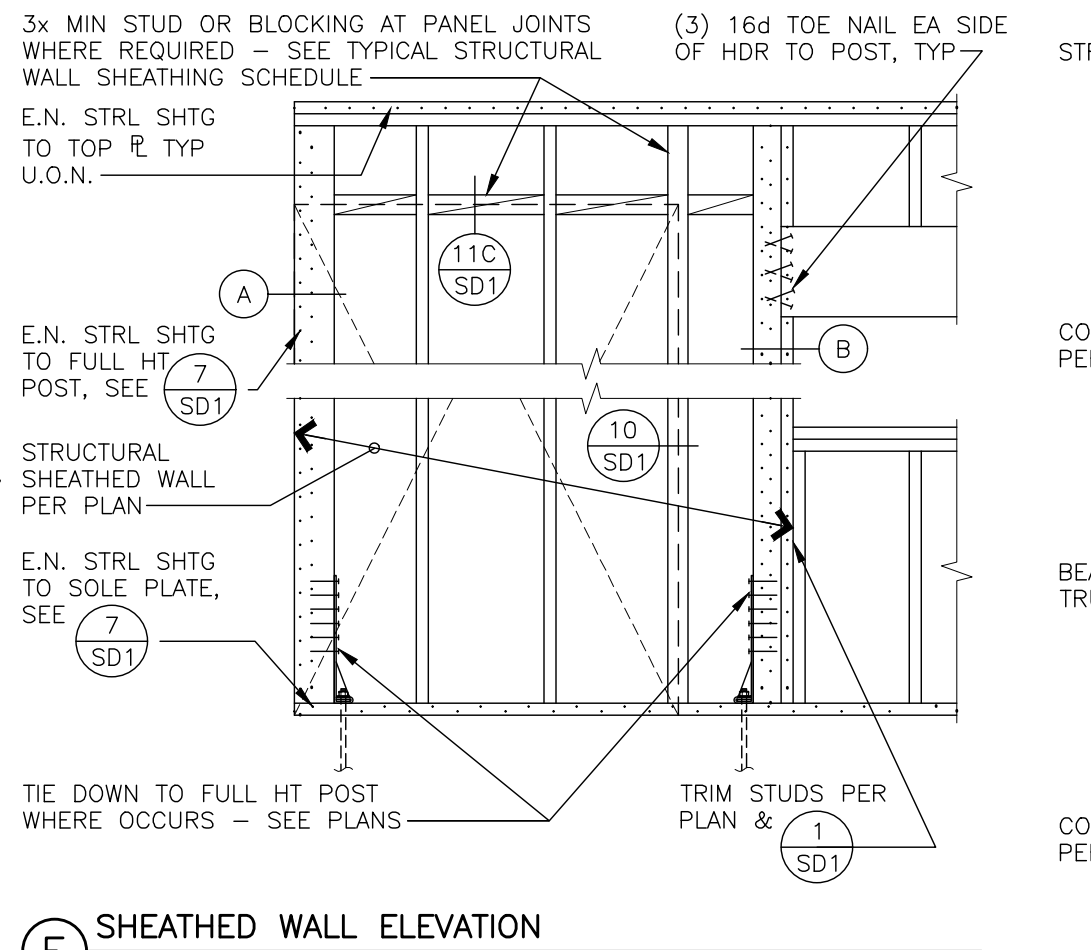
10 TYPICAL SHEATHING JOINT NAILING  
D1/1/2  
1, A2 210101SD1 4805C 01-11-07 1x1



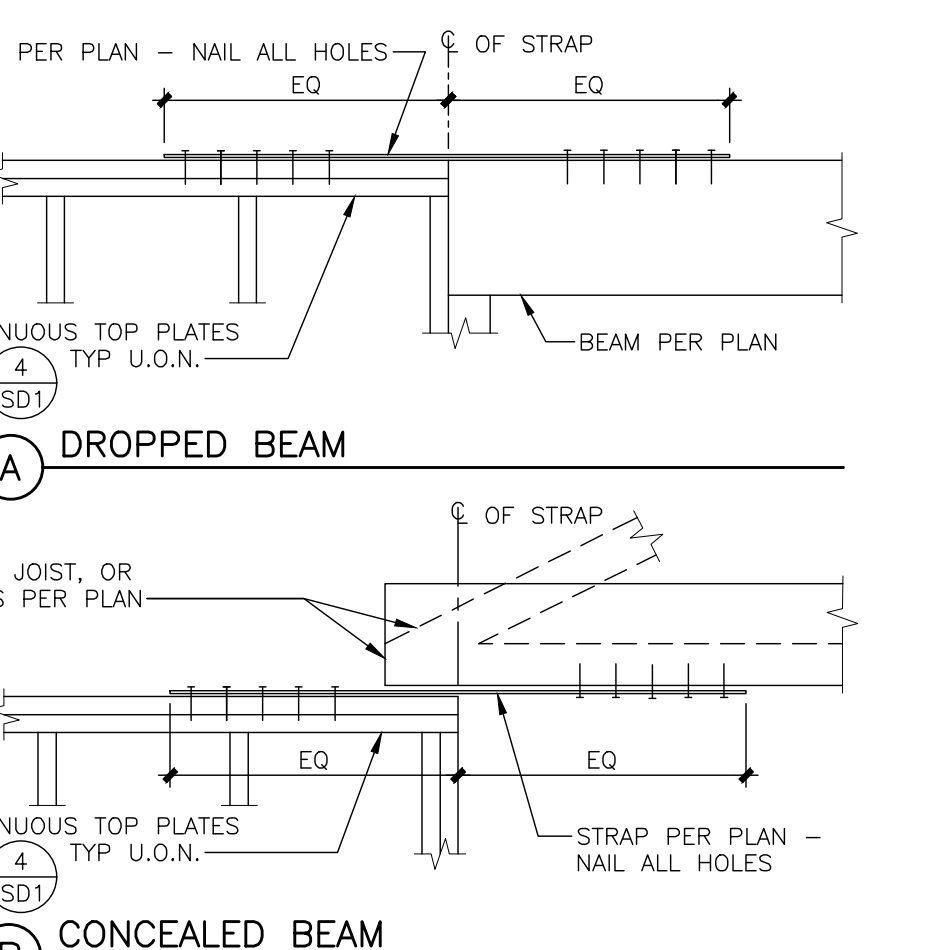
11 TYPICAL HORIZONTAL SHEATHING JOINTS  
D3/4  
1C 210101SD1 4808B 01-29-07 1.5x1



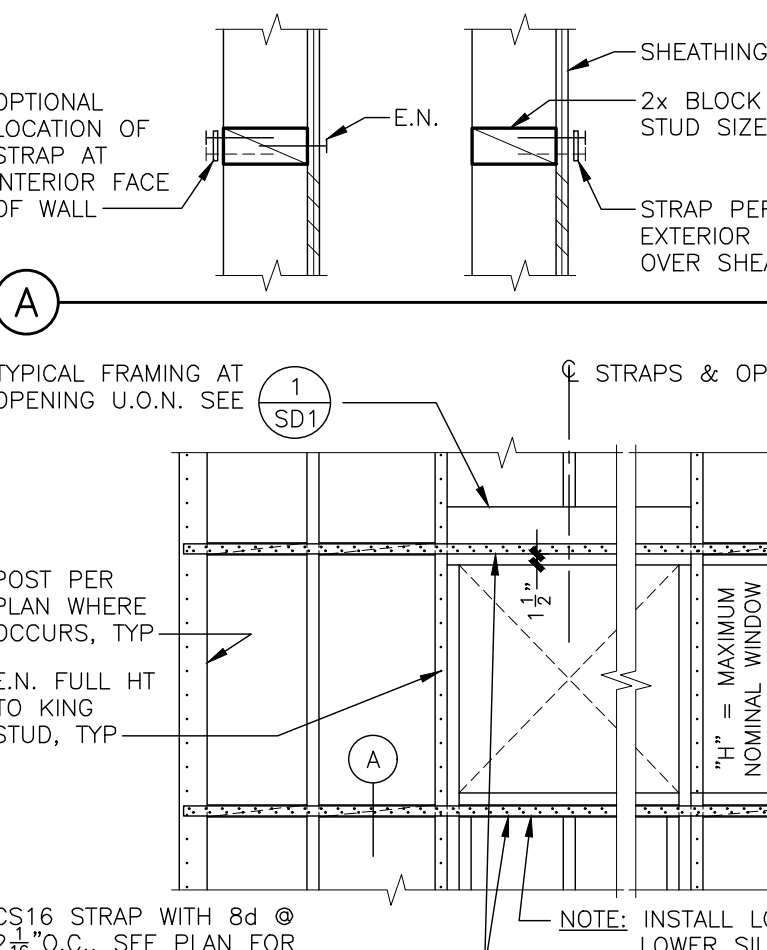
13 TYPICAL STRUCTURAL SHEATHED WALL (PLAN VIEW U.O.N.)  
D1/1/2  
1, A2 210101SD1 4809 09-10-15 2x1



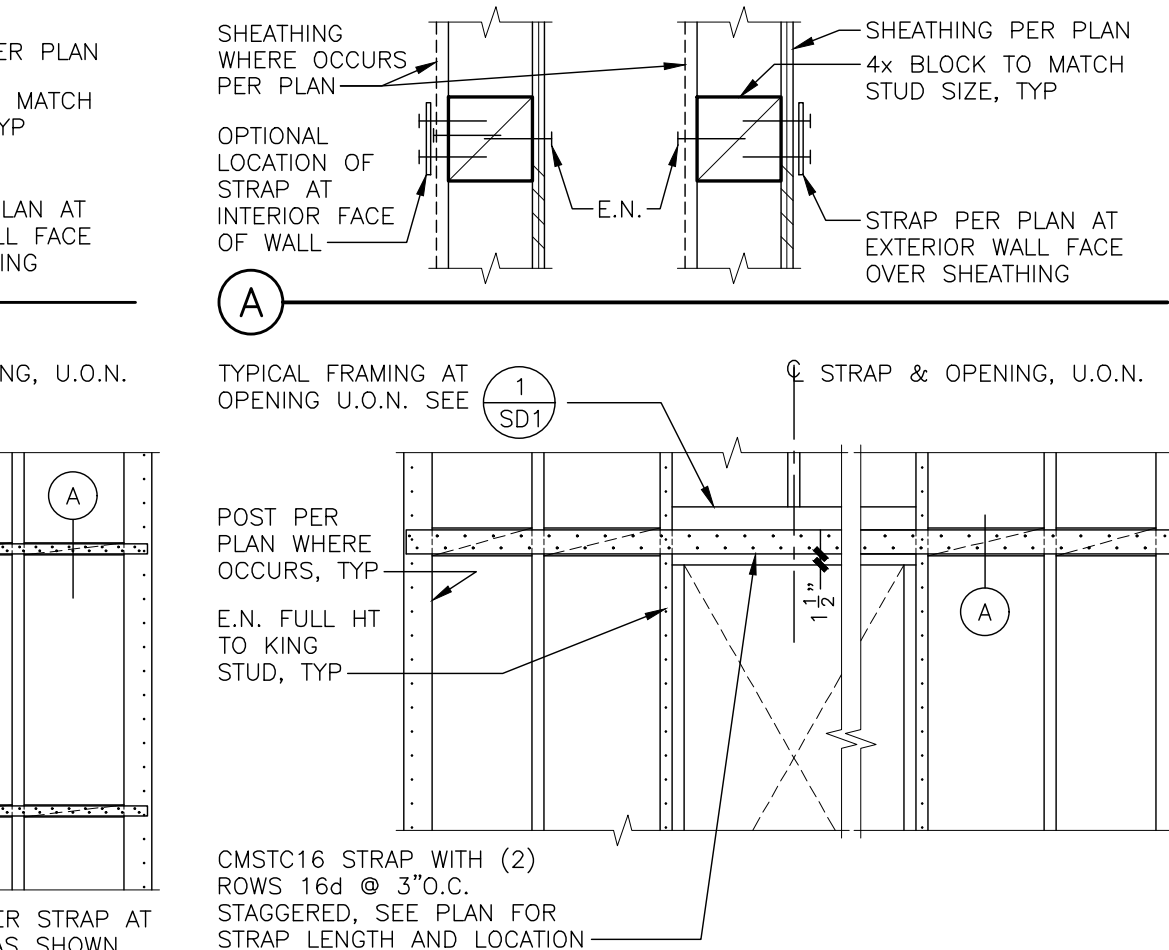
14 TYPICAL STRUCTURAL SHEATHED WALL (PLAN VIEW U.O.N.)  
D3/4  
1, 9F, 10F 210101SD1 4756 11-12-07 1x1



15 TYPICAL STRUCTURAL SHEATHED WALL (PLAN VIEW U.O.N.)  
D3/4  
1, 9F, 10F 210101SD1 4756 11-12-07 1x1



16 TYPICAL STRUCTURAL SHEATHED WALL (PLAN VIEW U.O.N.)  
D1/2  
1, 11A, A2 210101SD1 4708 08-19-14 1x1

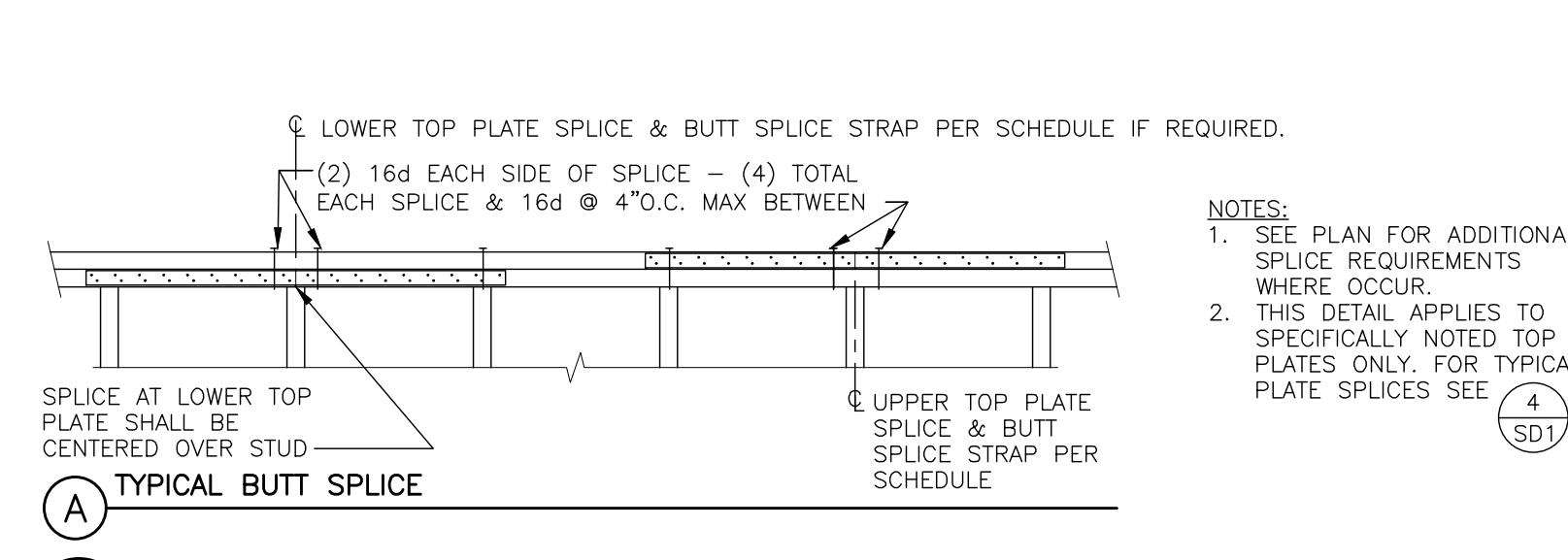


17 TYPICAL STRUCTURAL SHEATHED WALL (PLAN VIEW U.O.N.)  
D1/2  
11A 210101SD1 4707W 02-06-13 1x1

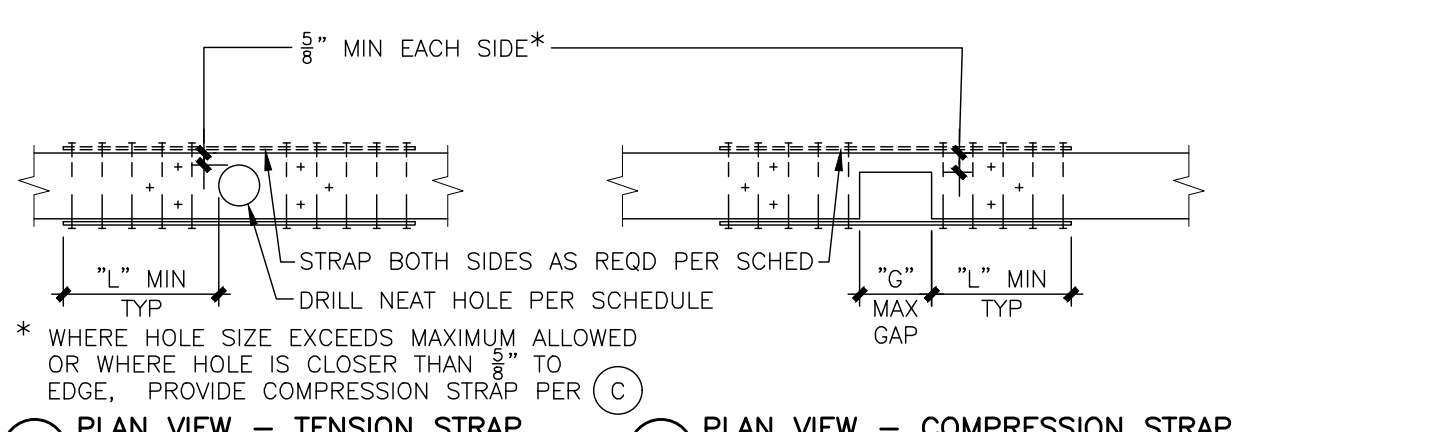


18 TYPICAL STRUCTURAL SHEATHED WALL (PLAN VIEW U.O.N.)  
D1/2  
11A 210101SD1 4707W 02-06-13 1x1

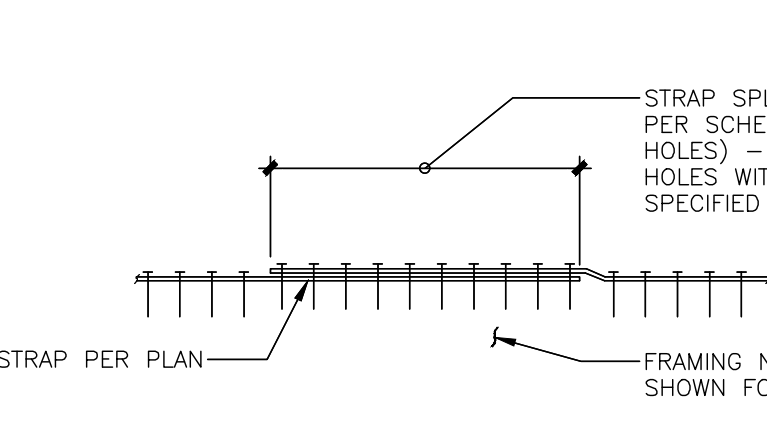
SPLICE REQUIREMENTS						
TYPE	TOP PLATE LUMBER GRADE	TYPICAL BUTT SPLICE PER (A)	MAX HOLE SIZE W/O TENSION STRAPS	MAX HOLE SIZE WITH TENSION STRAPS	TENSION STRAPS PER (B)	COMPRESSION STRAP SIZE PER (C)
D2 (2000#)	2x4	MSTA36 AT ONE SIDE OF UPPER TOP PLATE SPLICE	3/8"	2 1/2"	CMSTC16	16"
D1	2x6	STANDARD & BETTER	3/8"	2 1/2"	CMSTC16	16"
D3 (4000#)	2x4	D.F. STANDARD & BETTER	3/8"	2 1/2"	CMSTC16	24"
D4	2x6	STANDARD & BETTER	3/8"	2 1/2"	CMSTC16	24"



19 TYPICAL BUTT SPLICE  
D3/4  
1, A2 210101SD1 4804 08-04-17 3x1



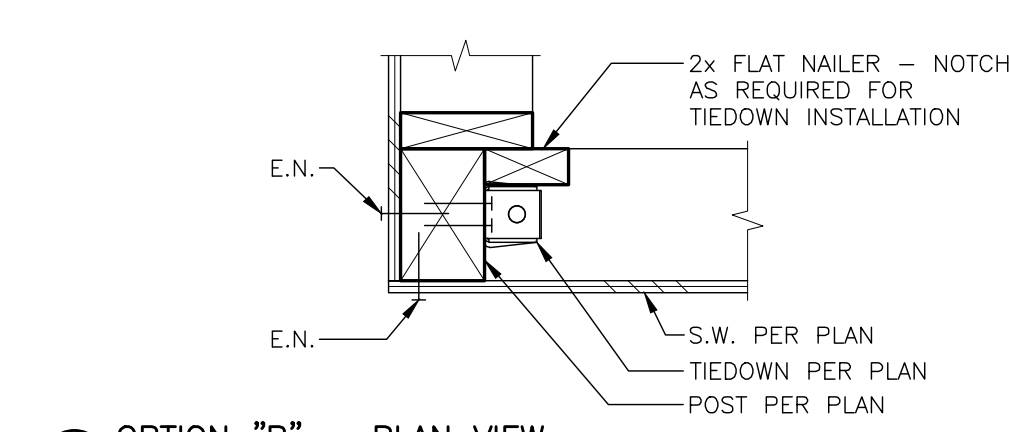
20 TENSION STRAP AT DRILLED HOLES  
D3/4  
1, A2 210101SD1 4804 08-04-17 3x1



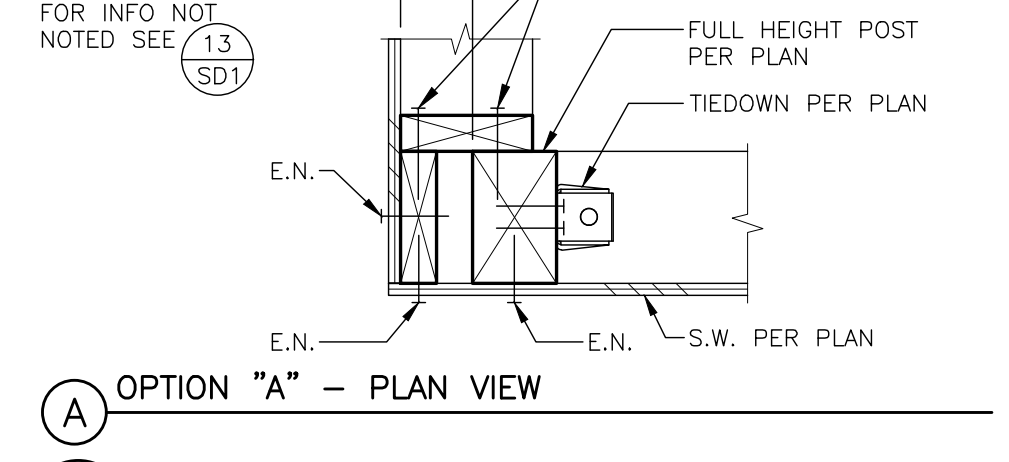
21 COMPRESSION STRAP AT NOTCHES  
D3/4  
1, A2 210101SD1 4804 08-04-17 3x1

COIL STRAP SPLICE SCHEDULE			
COIL STRAP TYPE	SPLICE LENGTH	MIN NAILS PER SPLICE	NAIL TYPE
CS16 & CS14	12"	11	PER COIL STRAP CALLOUT
CMSTC16	12"	13	PER COIL STRAP CALLOUT
CMST14	16"	18	PER COIL STRAP CALLOUT
CMST12	22"	25	PER COIL STRAP CALLOUT

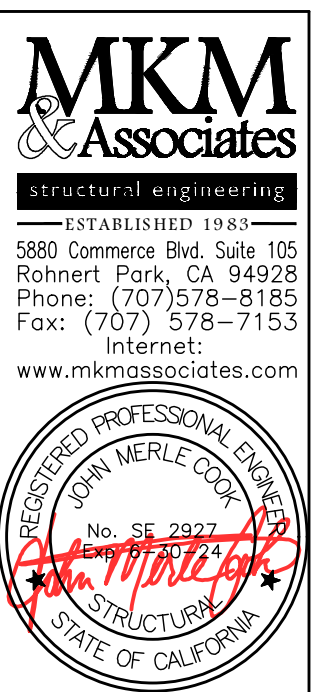
22 COIL STRAP SPLICE SCHEDULE  
D3/4  
9K, 10H, 11A, 18 210101SD1 4318 09-17-21 1x1



23 OPTION "B" - PLAN VIEW  
D1/1/2  
1B, 1C 210101SD1 4809A 06-03-16 1x1



24 OPTION "A" - PLAN VIEW  
D1/1/2  
1B, 1C 210101SD1 4809A 06-03-16 1x1



8/11/2022  
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PROJECT MANAGER  
Josh Wallace

STRUCTURAL OBSERVATION REQUIRED  
SEE "STRUCTURAL OBSERVATION" NOTES ON SHEET SN1

301 NORTH PETALUMA BLVD. T.I.  
301 NORTH PETALUMA BLVD.  
PETALUMA, CALIFORNIA 94952

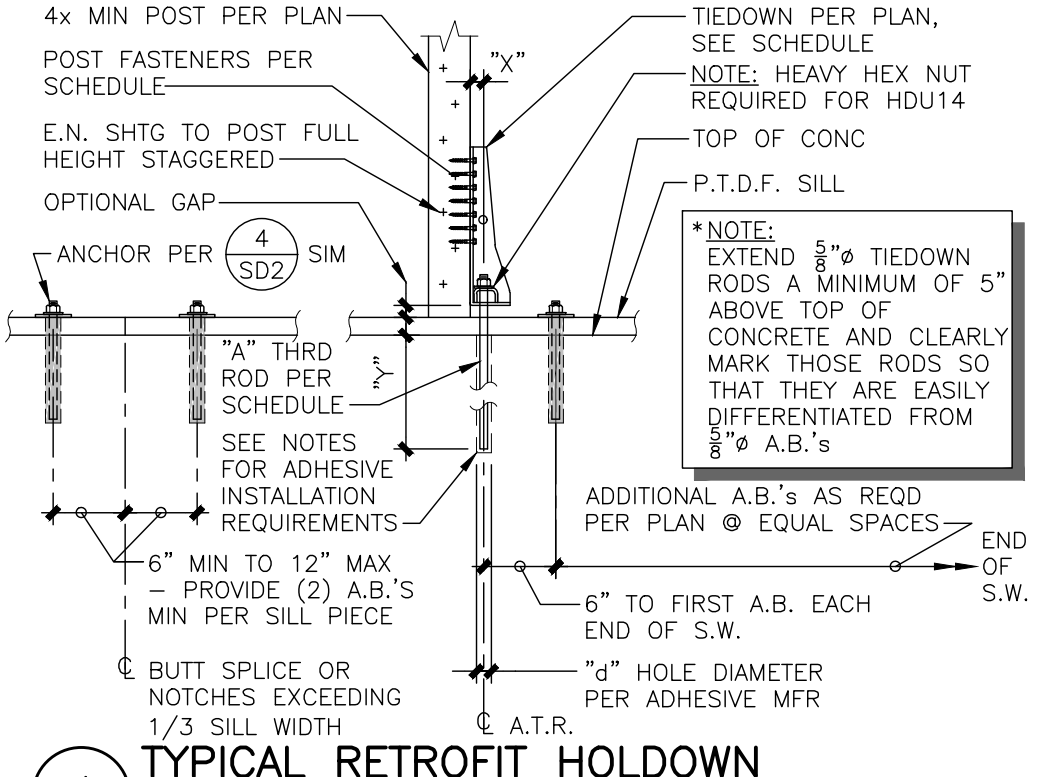
FOR PLAN VIEW ONLY

ISSUE INFORMATION  
Designer: JENNIFER  
PD: ER SR#: --  
Job No: 210101  
File: 210101SD1  
Plot Date: 8/11/2022  
Sheet Title:

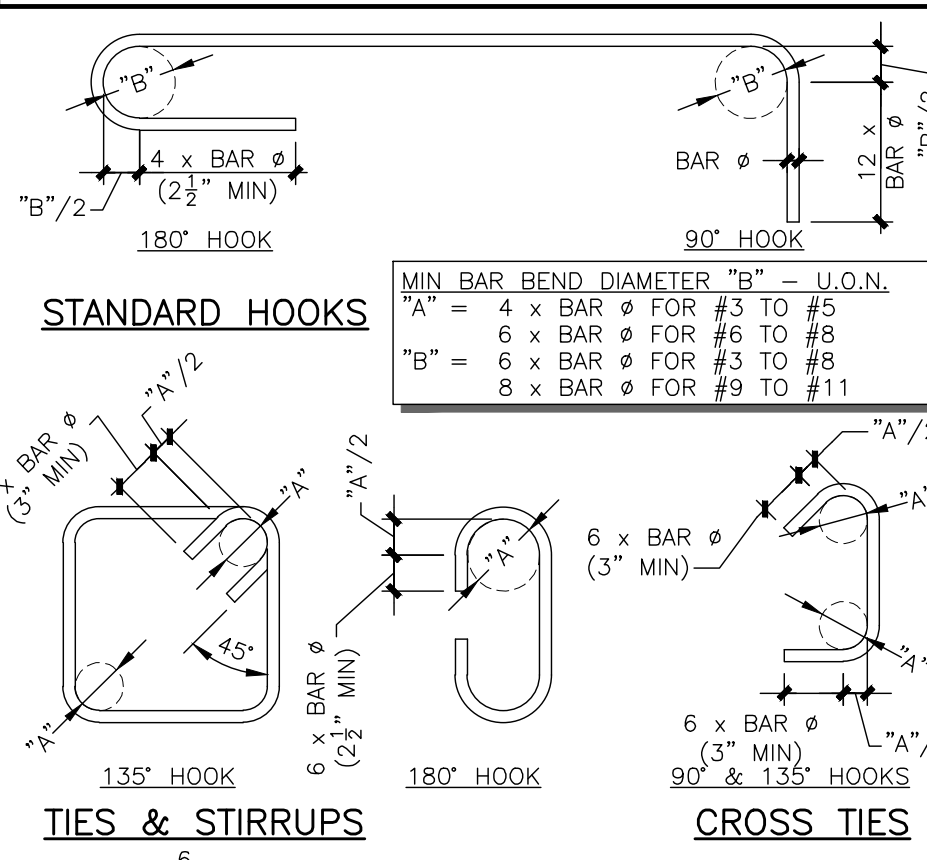
STRUCTURAL DETAILS  
Sheet  
SD1



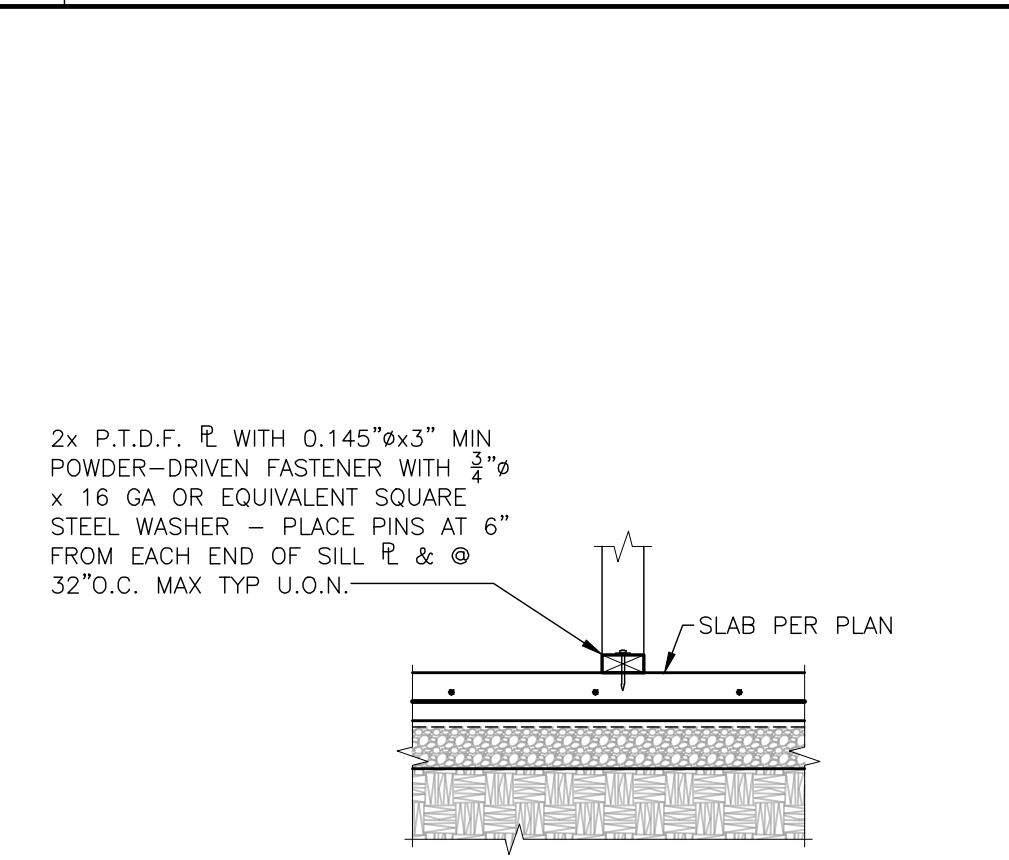
TIEDOWN	POST FASTENERS	"A" ROD	"X"	"Y"
HDU2	(6) SDS $\frac{1}{2}$ x2 $\frac{1}{2}$ SCREWS	$\frac{1}{2}$ " $\phi$ x 1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	14"
HDU5	(14) SDS $\frac{1}{2}$ x2 $\frac{1}{2}$ SCREWS	$\frac{1}{2}$ " $\phi$ x 1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	16"
HDU8	(20) SDS $\frac{1}{2}$ x2 $\frac{1}{2}$ SCREWS	$\frac{1}{2}$ " $\phi$ x 1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	22"



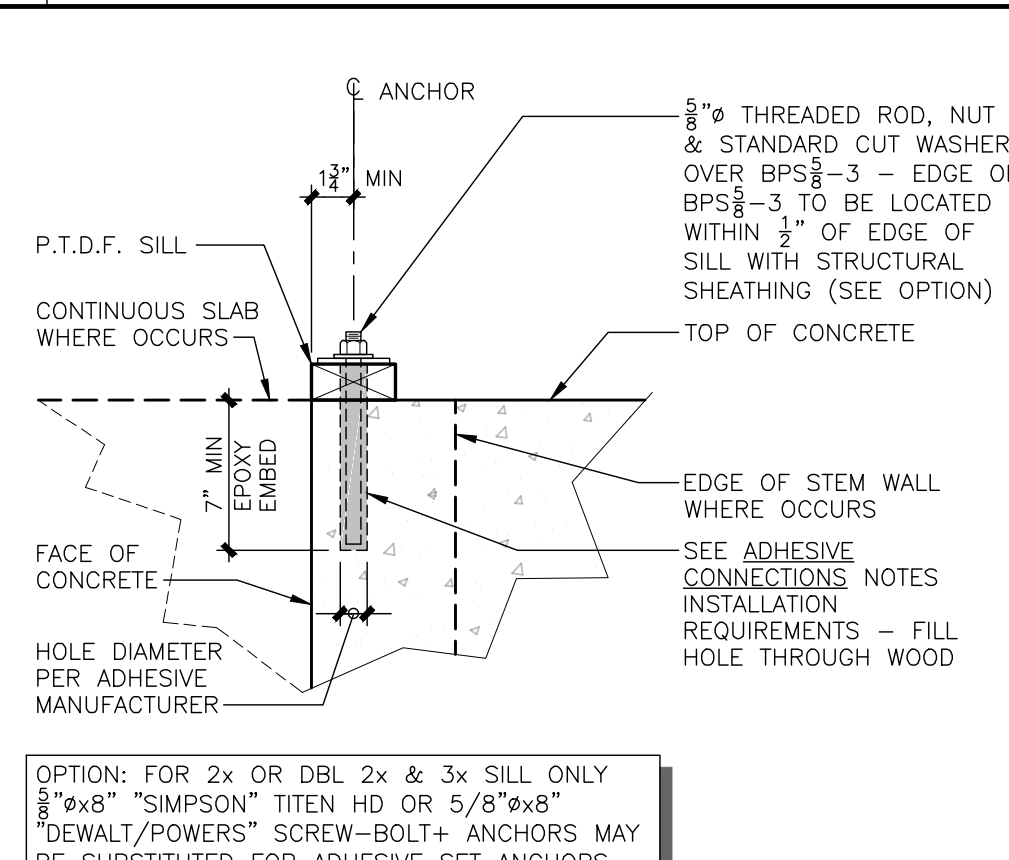
1 TYPICAL RETROFIT HOLDOWN  
\*D3/4  
3A, 12C, 49C 210101502 48105 03-16-17 1x1



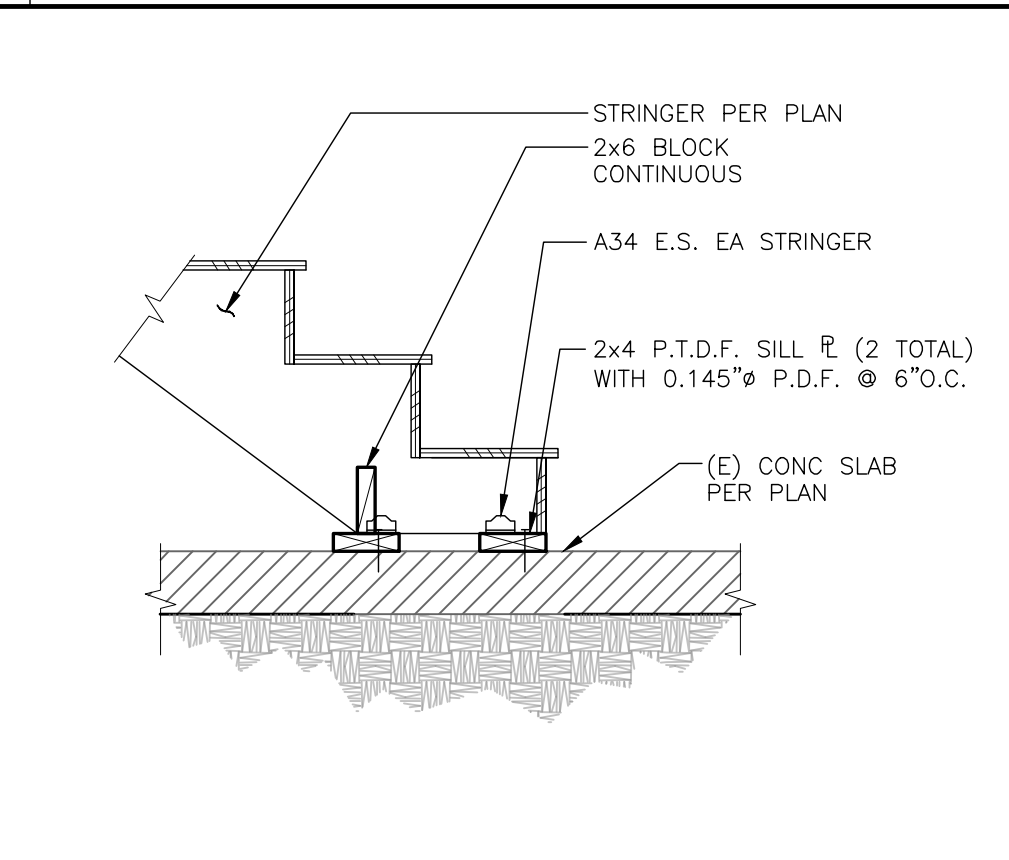
2 TYPICAL REINFORCING STEEL DATA  
\*D3/4  
A3A, A3B(1)-(3), 7A, 45B-F 210101502 4816 09-20-21 1x1



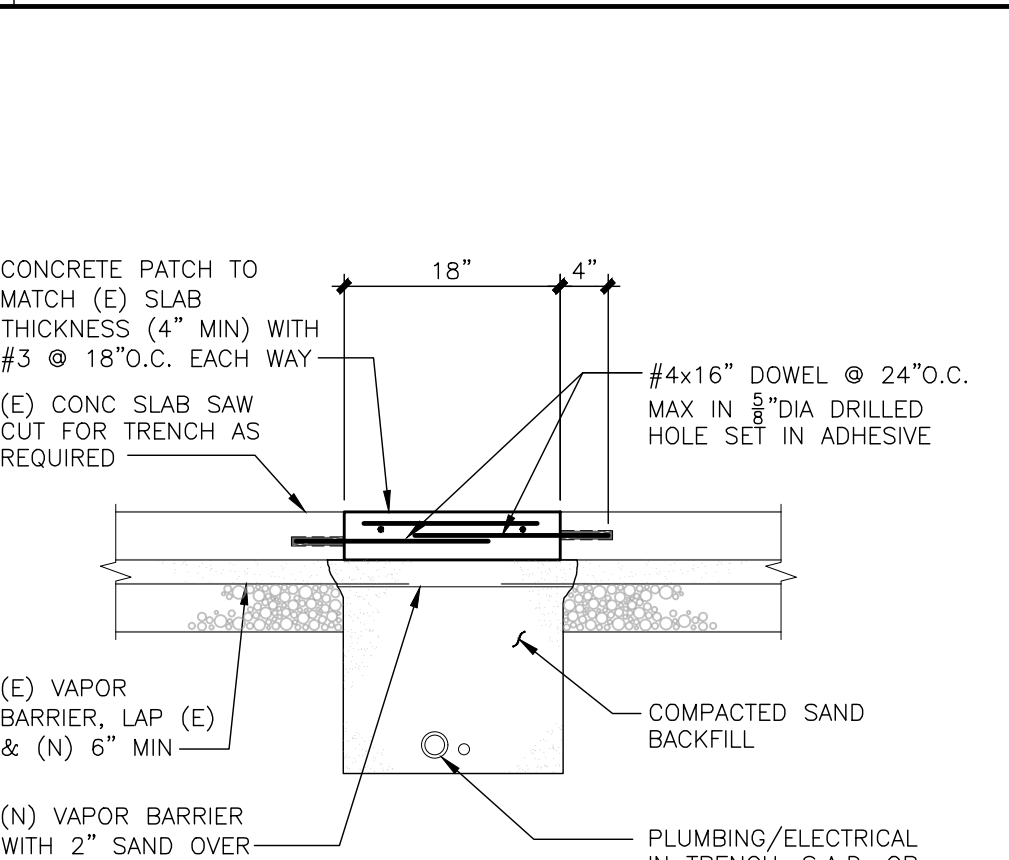
3 TYPICAL INTERIOR NONBEARING WALL  
\*D3/4  
3B 210101502 40688 04-15-20 1x1



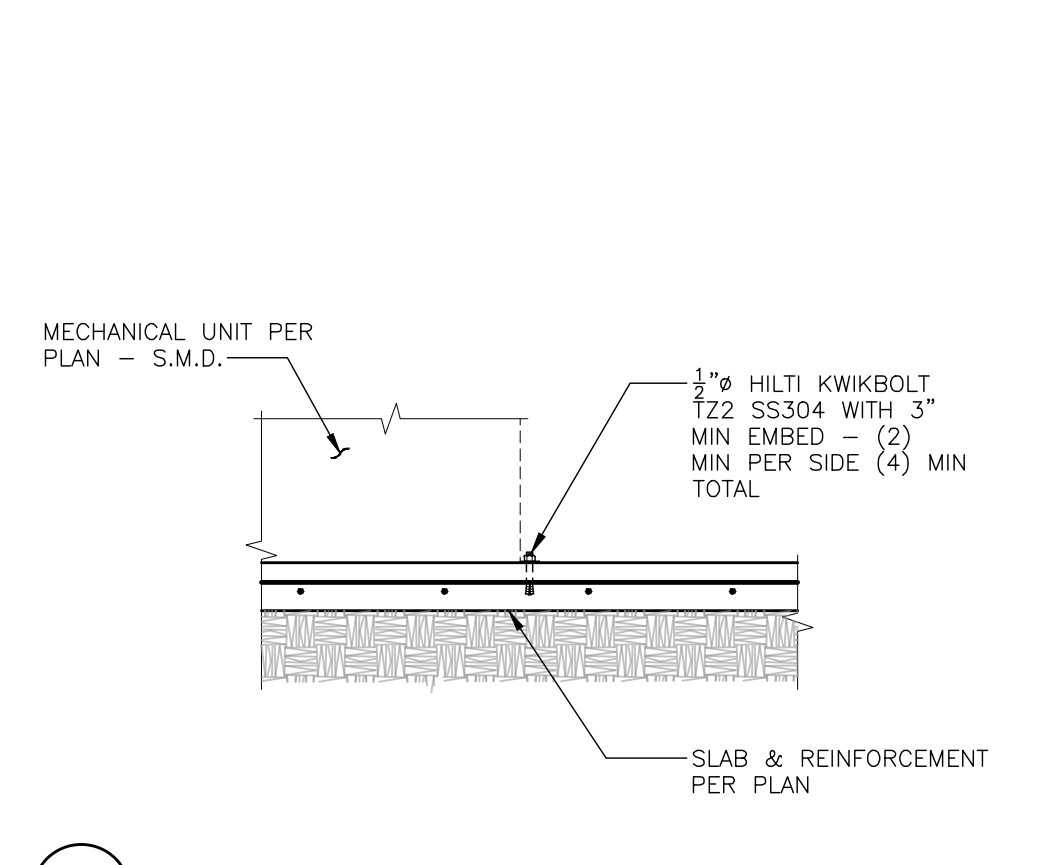
4 TYPICAL RETROFIT SILL ANCHOR  
\*D1/1/2A, 2B, 3A, 4A, 4B, 5A, 5B, 5D, 7A, A3A 14 210101502 4165 02-13-20 1x1



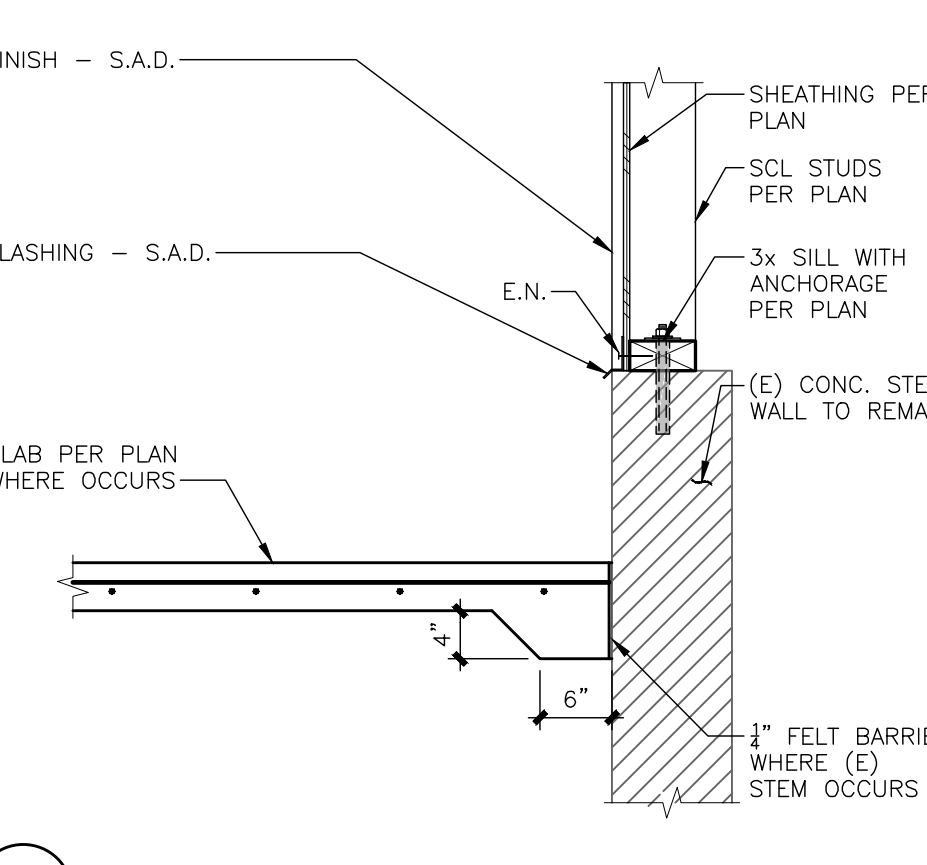
5  
210101502 7101 12-21-16 1x1



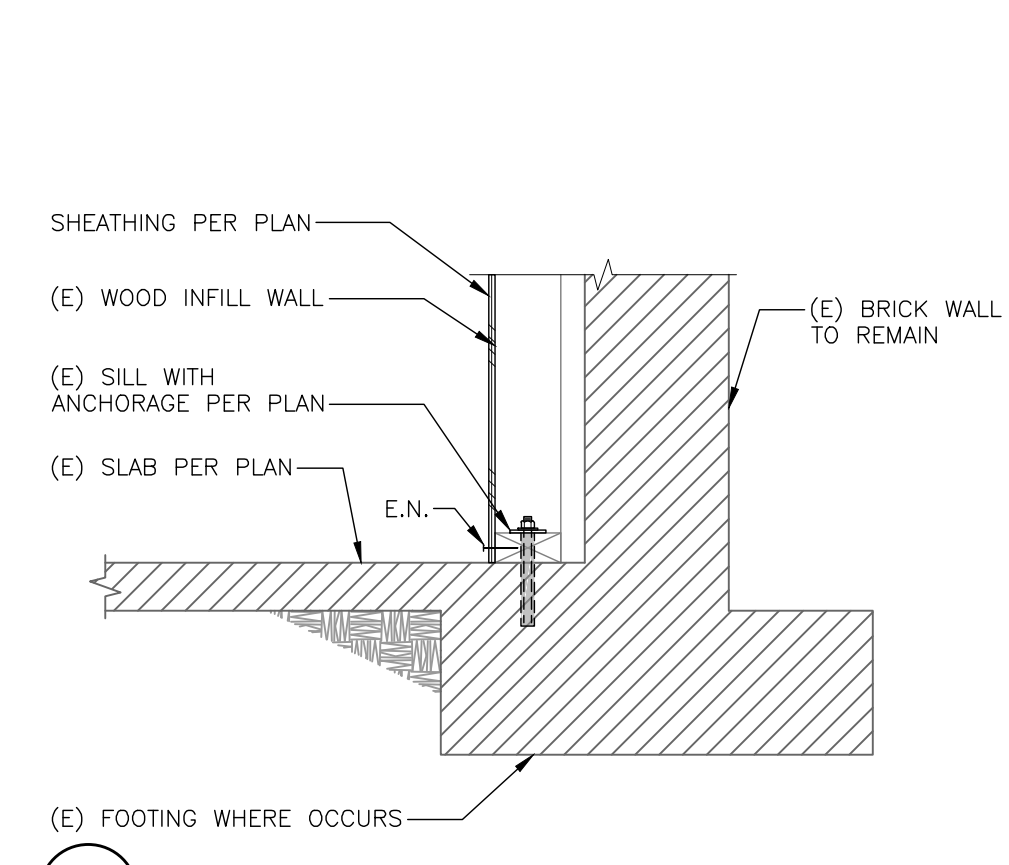
6  
D3/4  
J1A 210101502 6802 06-27-17



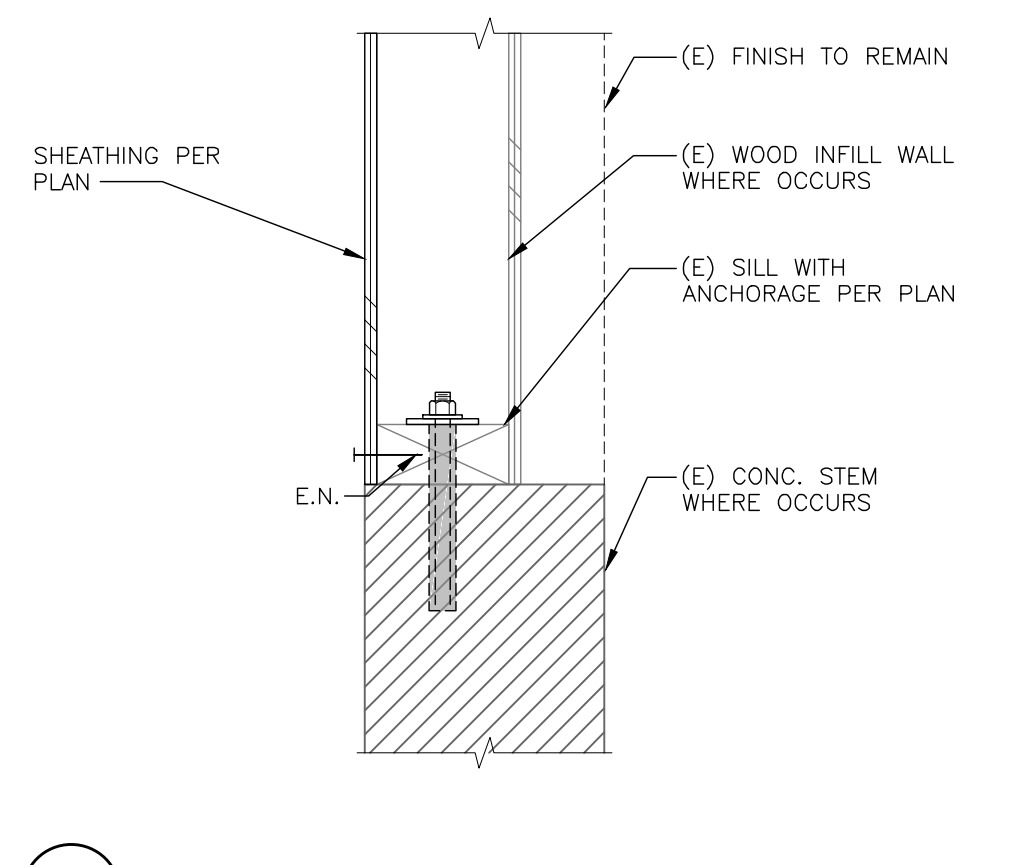
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D3/4  
FA ER 01/12/22 210101502 1x1



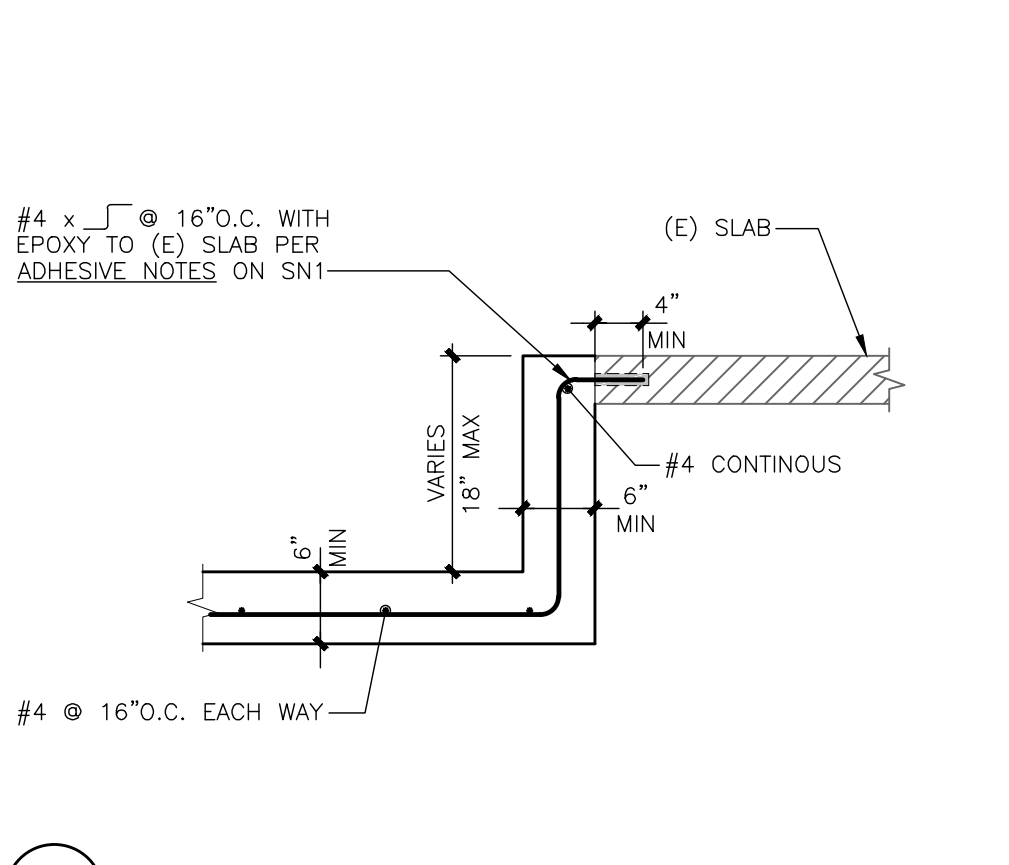
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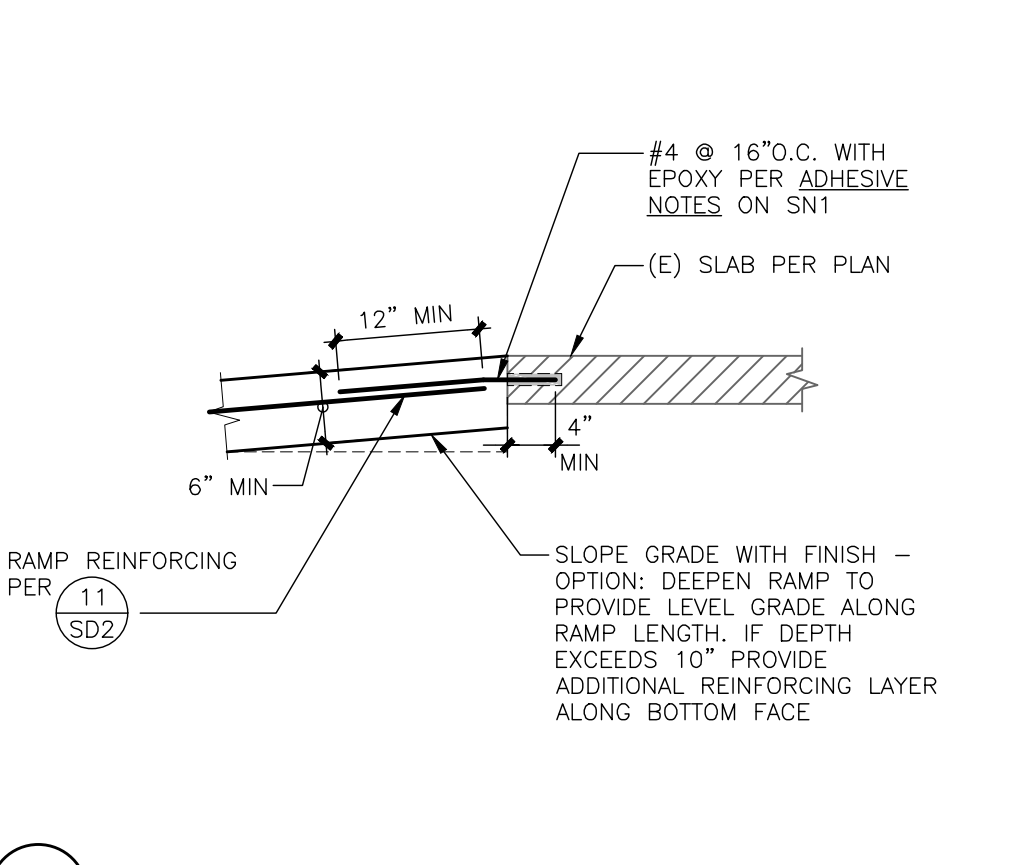
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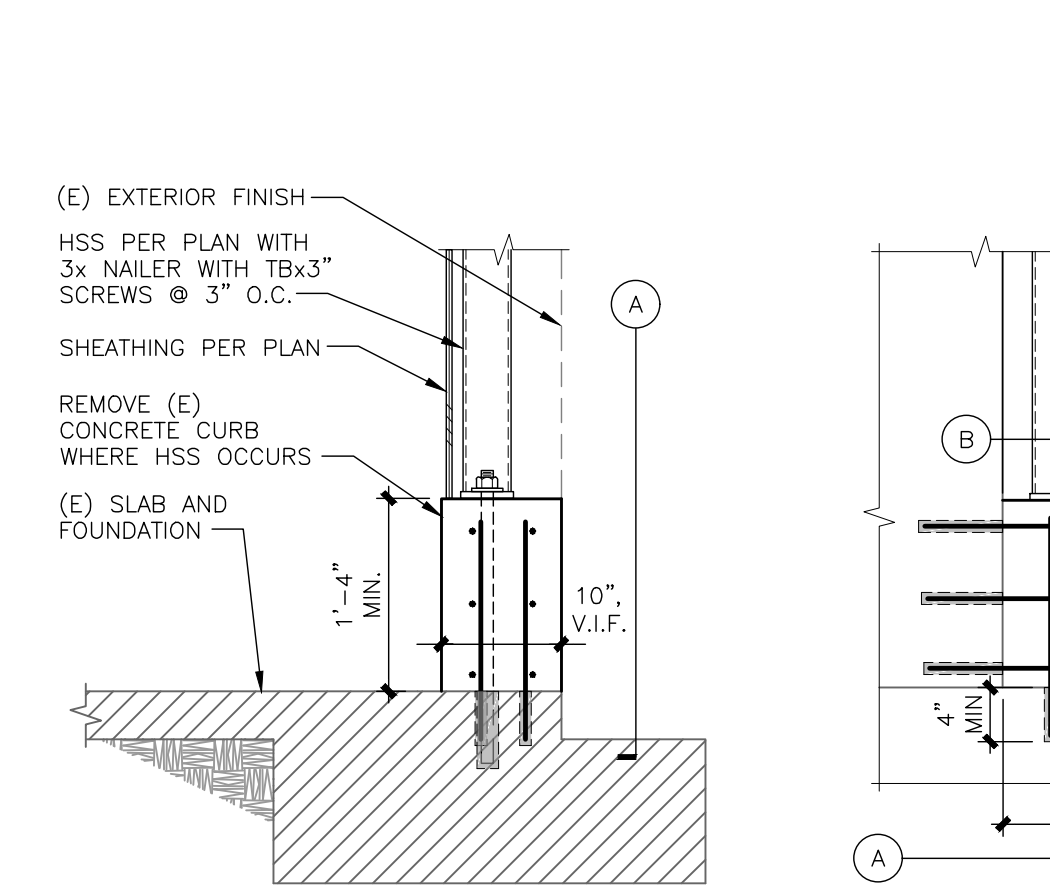
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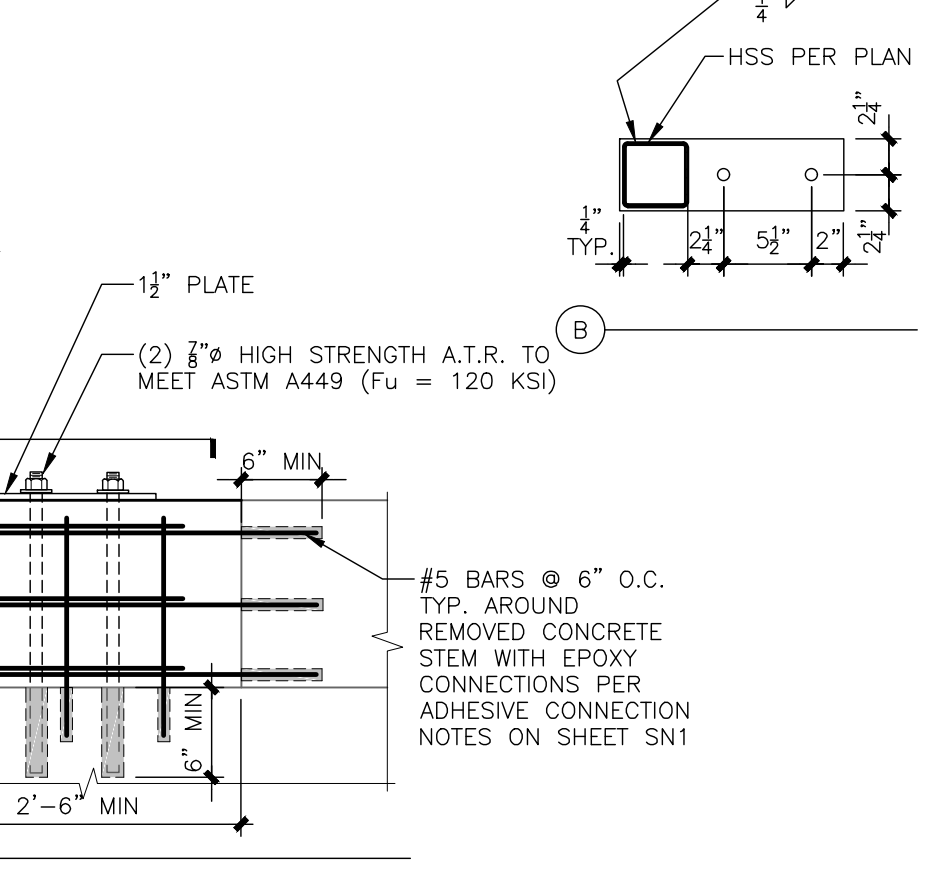
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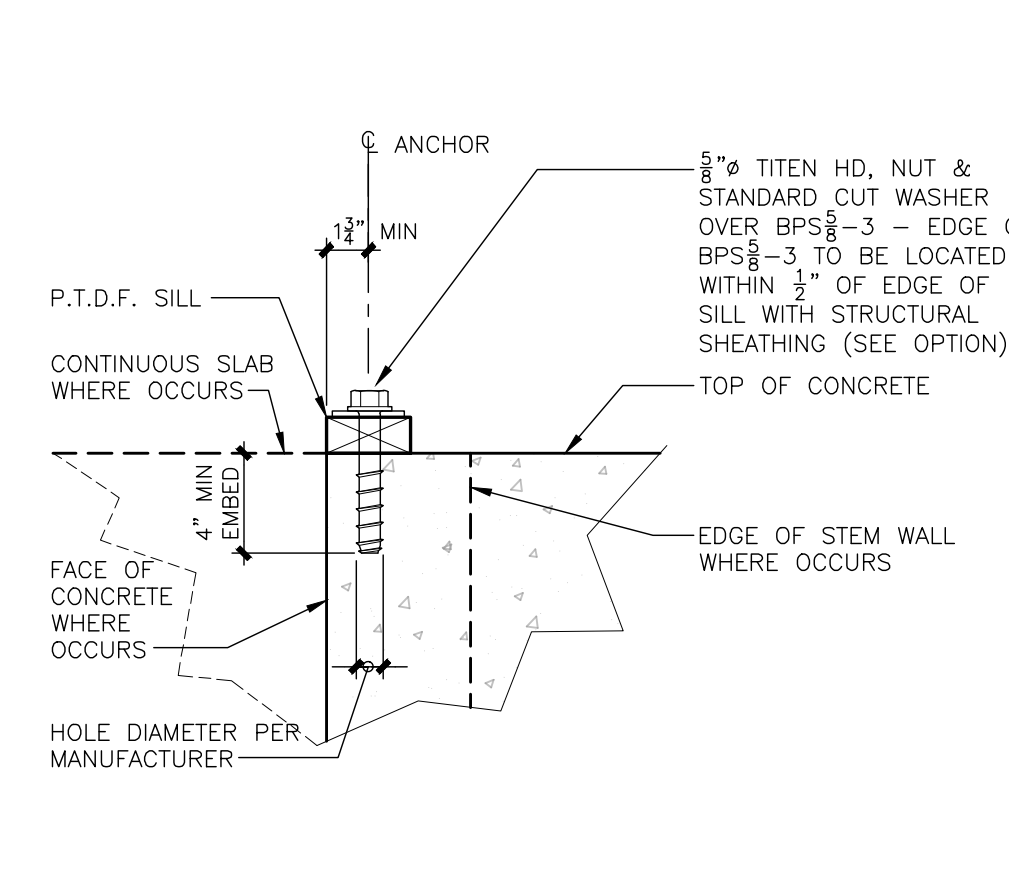
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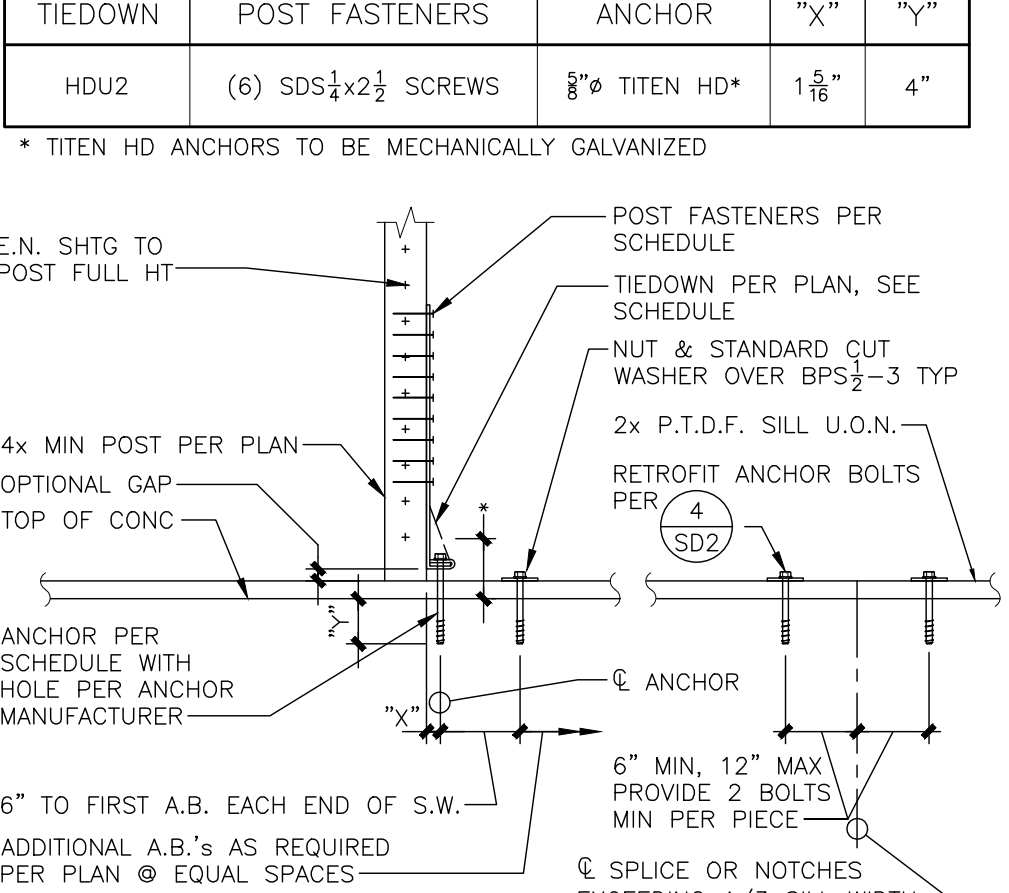
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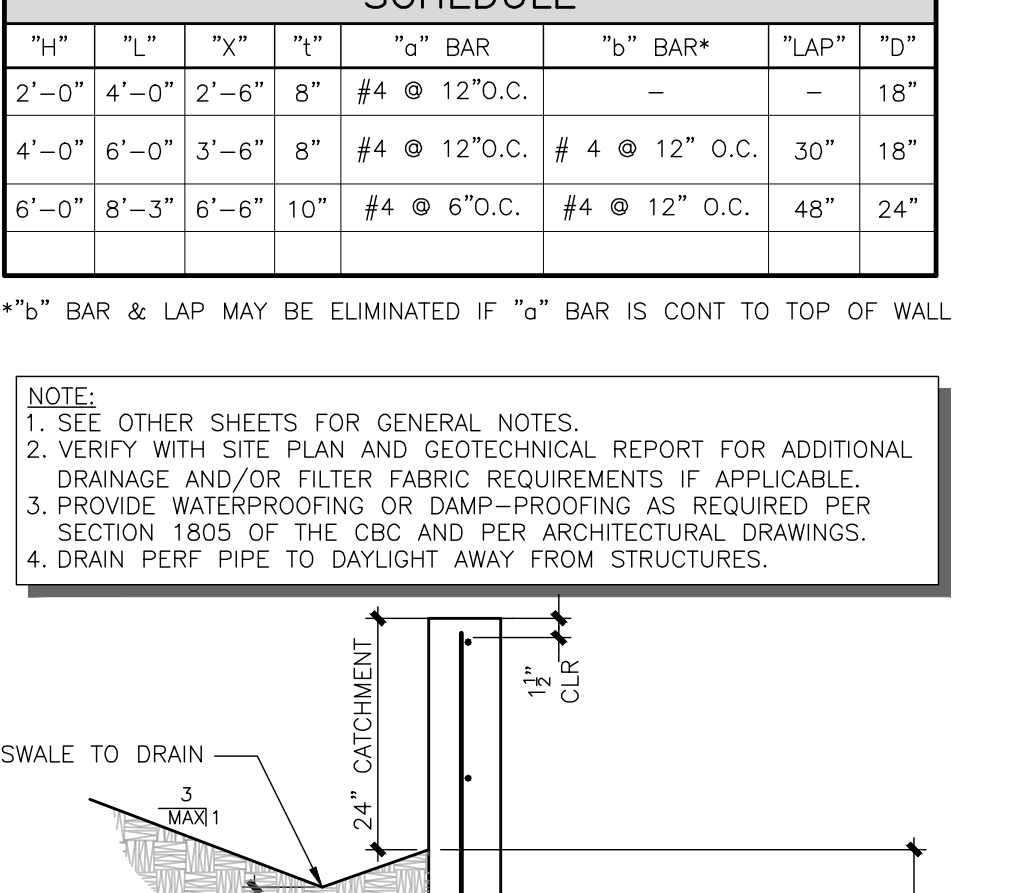
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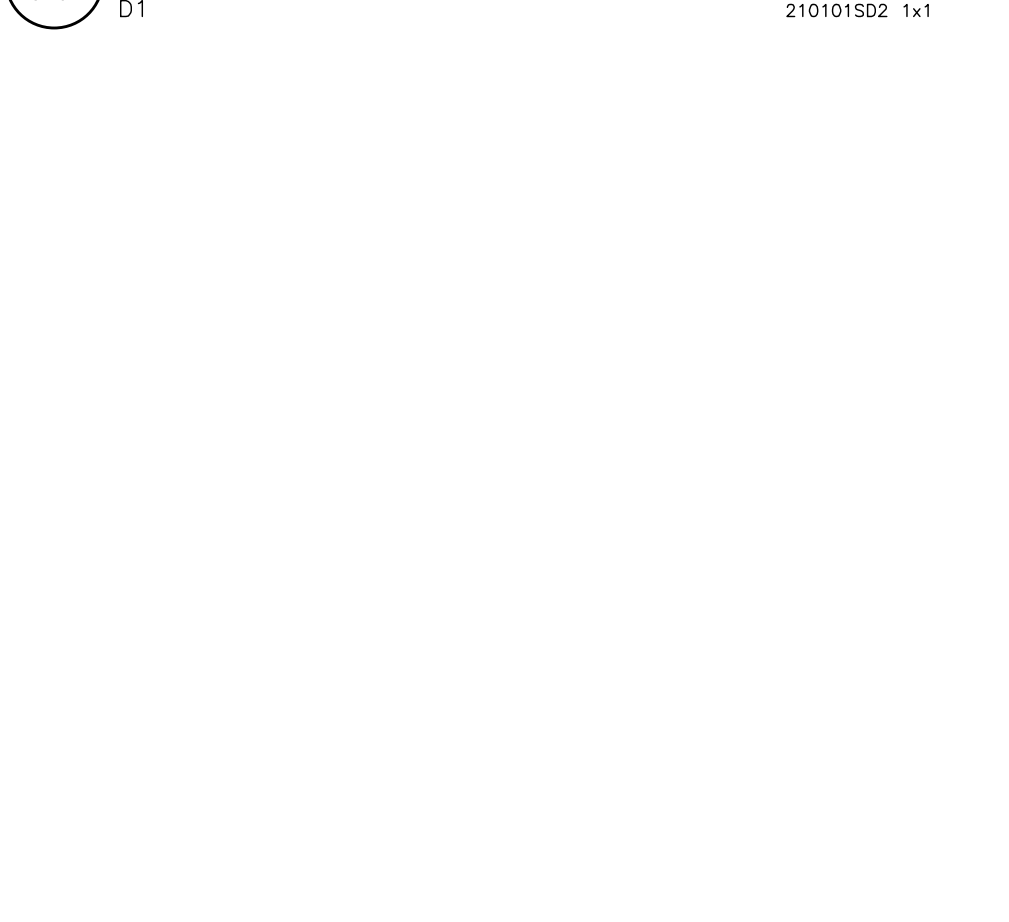
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\*D1/1/2A, 2B, 3A, 4A, 4B, 5A, 5B, 5D, 7A, A3A 14 210101502 4165 02-13-20 1x1



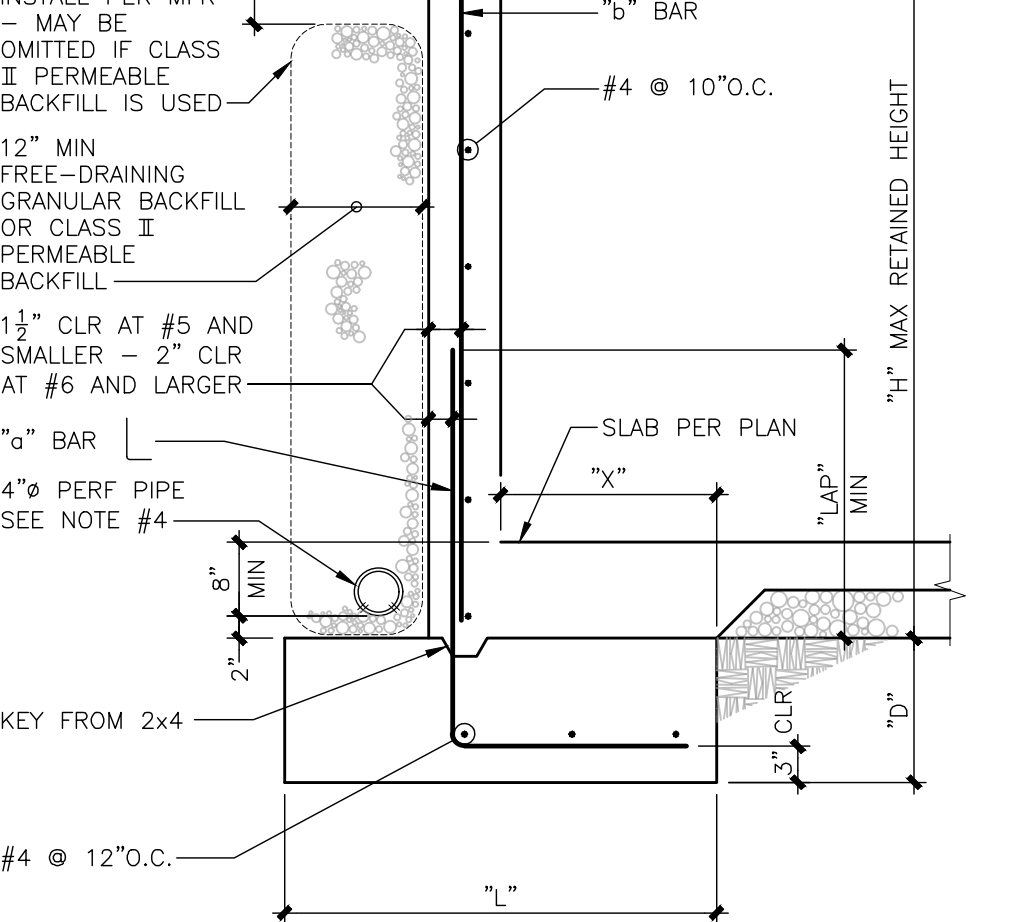
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D1  
210101502 1x1



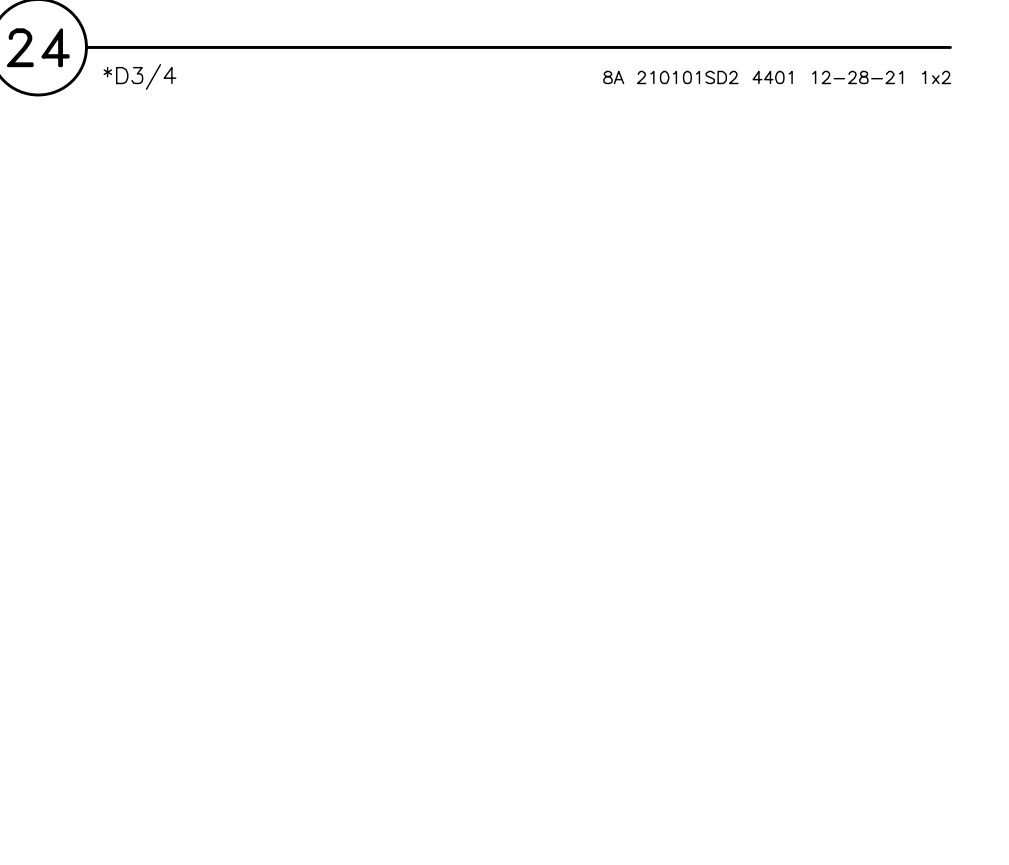
18  
\*D3/4  
8A 210101502 4401 12-28-21 1x2



19  
D1  
210101502 1x1



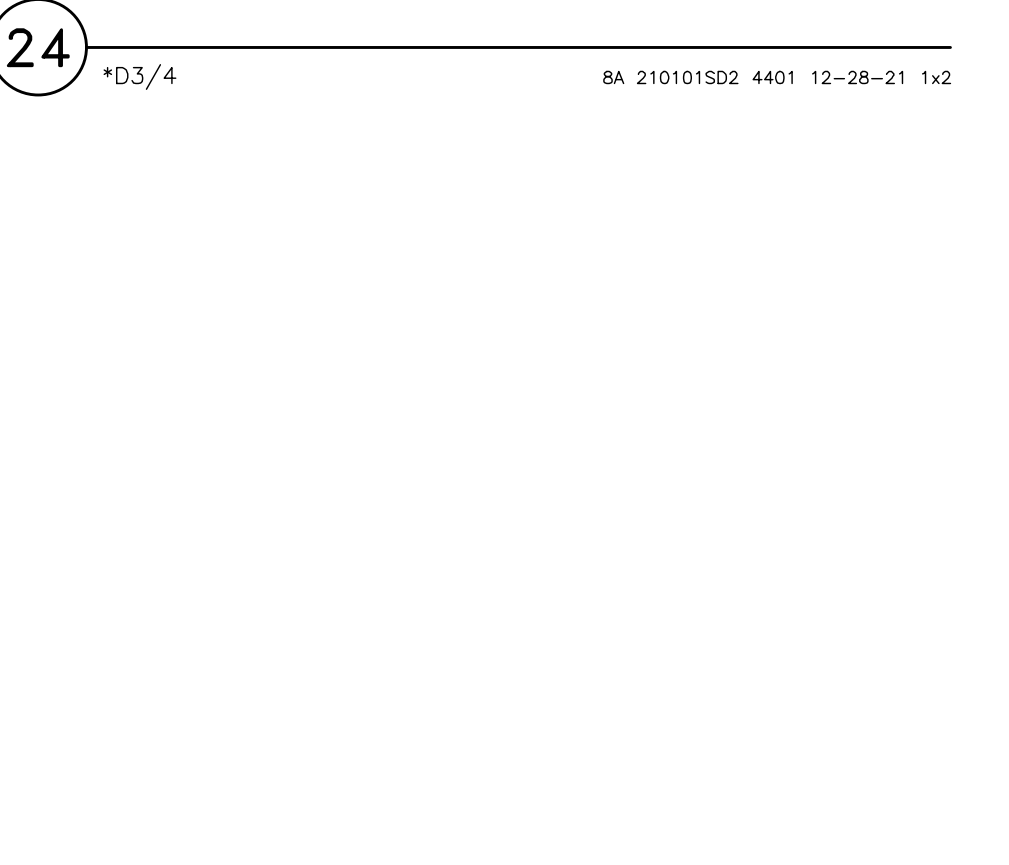
20  
\*D3/4  
8A 210101502 4401 12-28-21 1x2



24  
\*D3/4  
8A 210101502 4401 12-28-21 1x2



21  
D1  
210101502 1x1



22  
\*D3/4  
8A 210101502 4401 12-28-21 1x2



23  
\*D3/4  
8A 210101502 4401 12-28-21 1x2

TIEDOWN	POST FASTENERS	ANCHOR	"X"	"Y"
HDU2	(6) SDS $\frac{1}{2}$ x2 $\frac{1}{2}$ SCREWS	$\frac{1}{2}$ " TITEN HD*	1 $\frac{1}{2}$ "	4"

\* TITEN HD ANCHORS TO BE MECHANICALLY GALVANIZED

"H"	"L"	"X"	"Y"	"O" BAR	"b" BAR*	"LAP"	"D"
2'-0"	4'-0"	2'-6"	8"	#4 @ 12" O.C.	-	-	18"
4'-0"	6'-0"	3'-6"	8"	#4 @ 12" O.C.	# 4 @ 12" O.C.	30"	18"
6'-0"	8'-3"	6'-6"	10"	#4 @ 6" O.C.	#4 @ 12" O.C.	48"	24"

\*"b" BAR & LAP MAY BE ELIMINATED IF "O" BAR IS CONT TO TOP OF WALL

NOTE:  
1. SEE OTHER SHEETS FOR GENERAL NOTES.  
2. VERIFY WITH SITE PLAN AND GEOTECHNICAL REPORT FOR ADDITIONAL DRAINAGE AND/OR FILTER FABRIC REQUIREMENTS IF APPLICABLE.  
3. PROVIDE WATERPROOFING OR DAMP-PROOFING AS REQUIRED PER SECTION 1805 OF THE CBC AND PER ARCHITECTURAL DRAWINGS.  
4. DRAIN PER PIPE TO DAYLIGHT AWAY FROM STRUCTURES.

**MKM Associates**  
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Rohmert Park, CA 94928  
Phone: (707) 784-8182  
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www.mkmassociates.com

REGISTERED PROFESSIONAL ENGINEER  
No. 52829  
STATE OF CALIFORNIA

8/11/2022  
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PROJECT MANAGER  
Josh Wallace

**STRUCTURAL OBSERVATION REQUIRED**  
SEE "STRUCTURAL OBSERVATION" NOTES ON SHEET SN1

301 NORTH PETALUMA BLVD. T.I.  
301 NORTH PETALUMA BLVD.  
PETALUMA, CALIFORNIA 94952

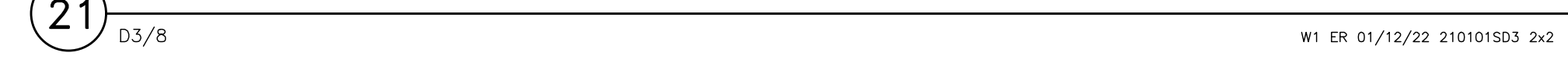
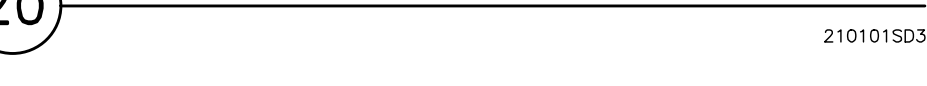
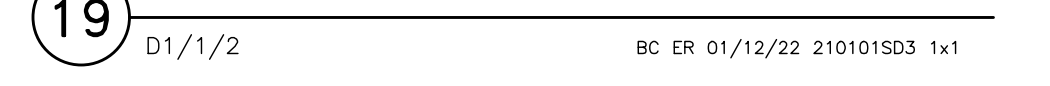
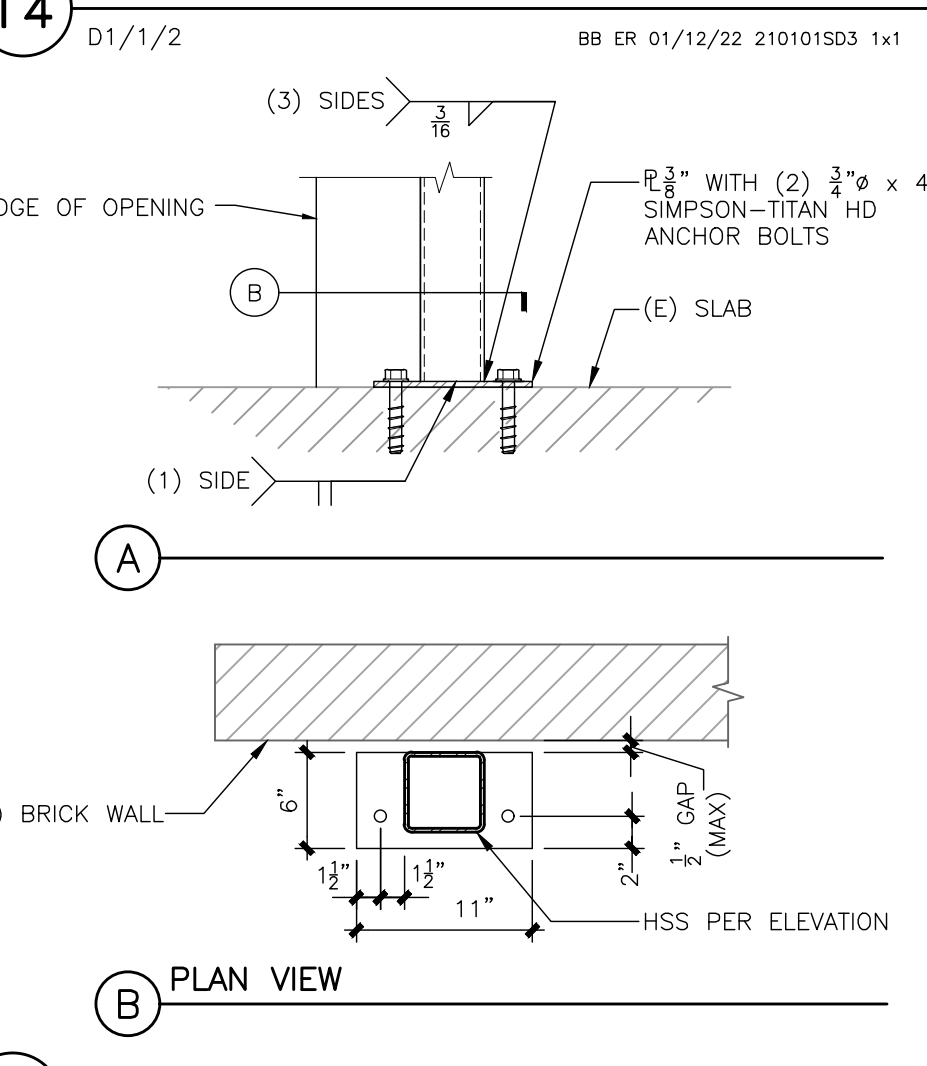
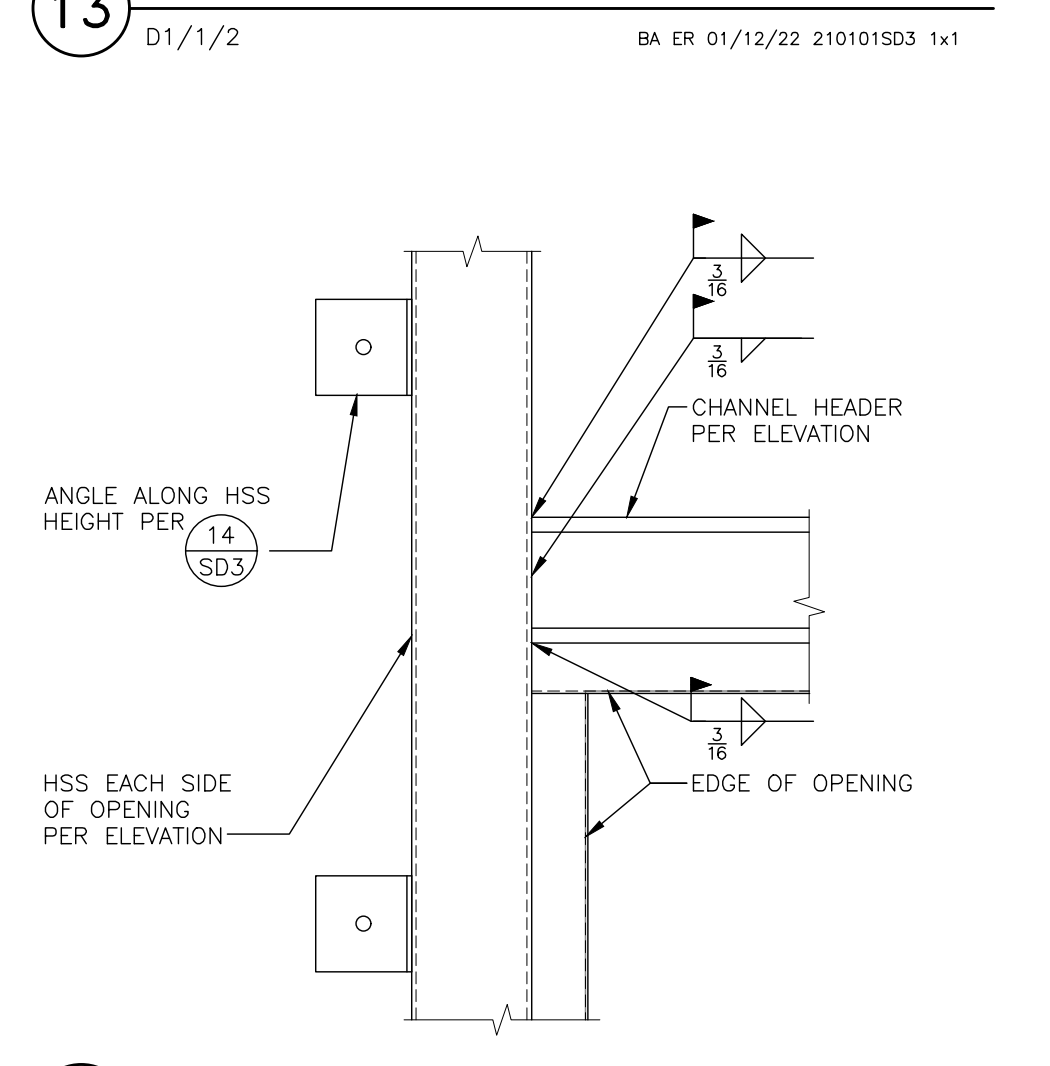
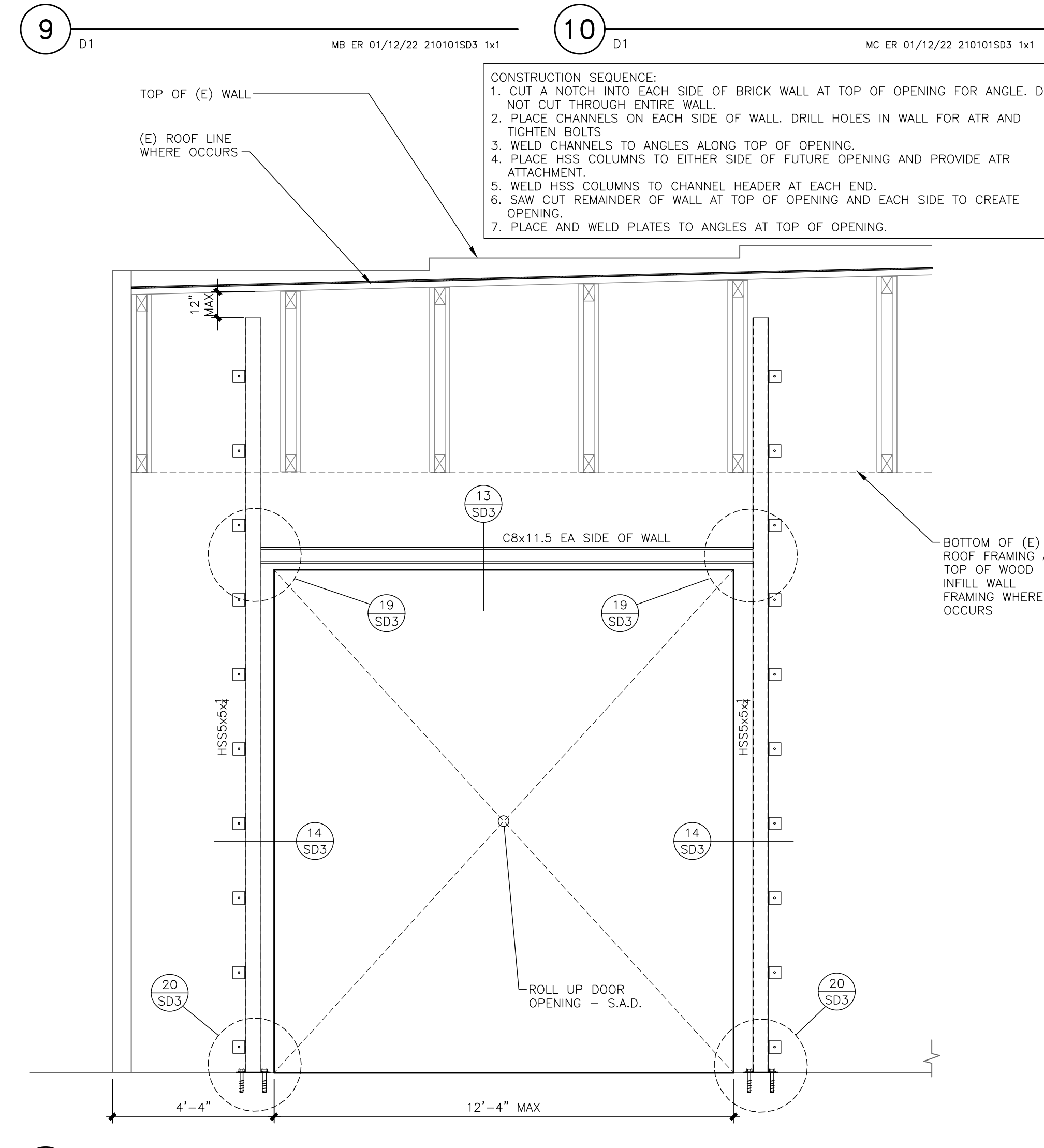
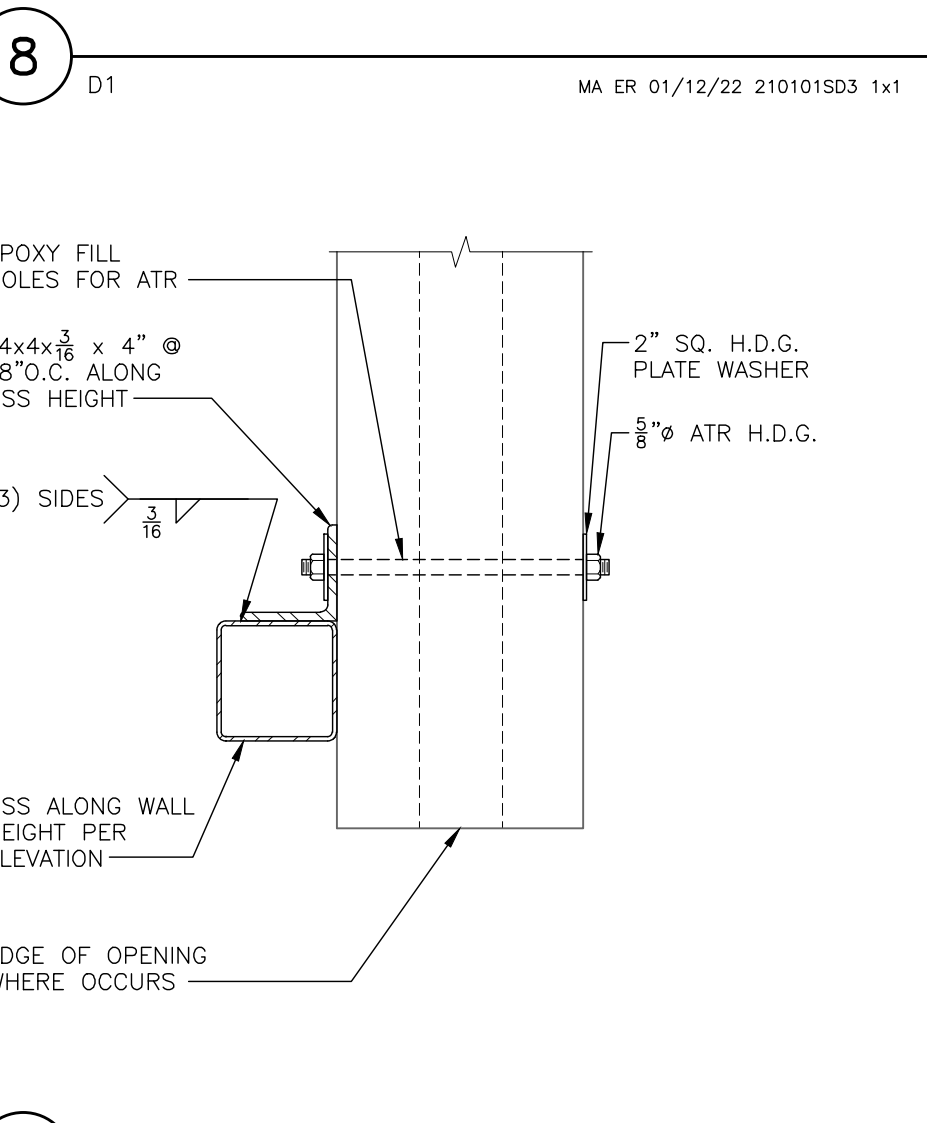
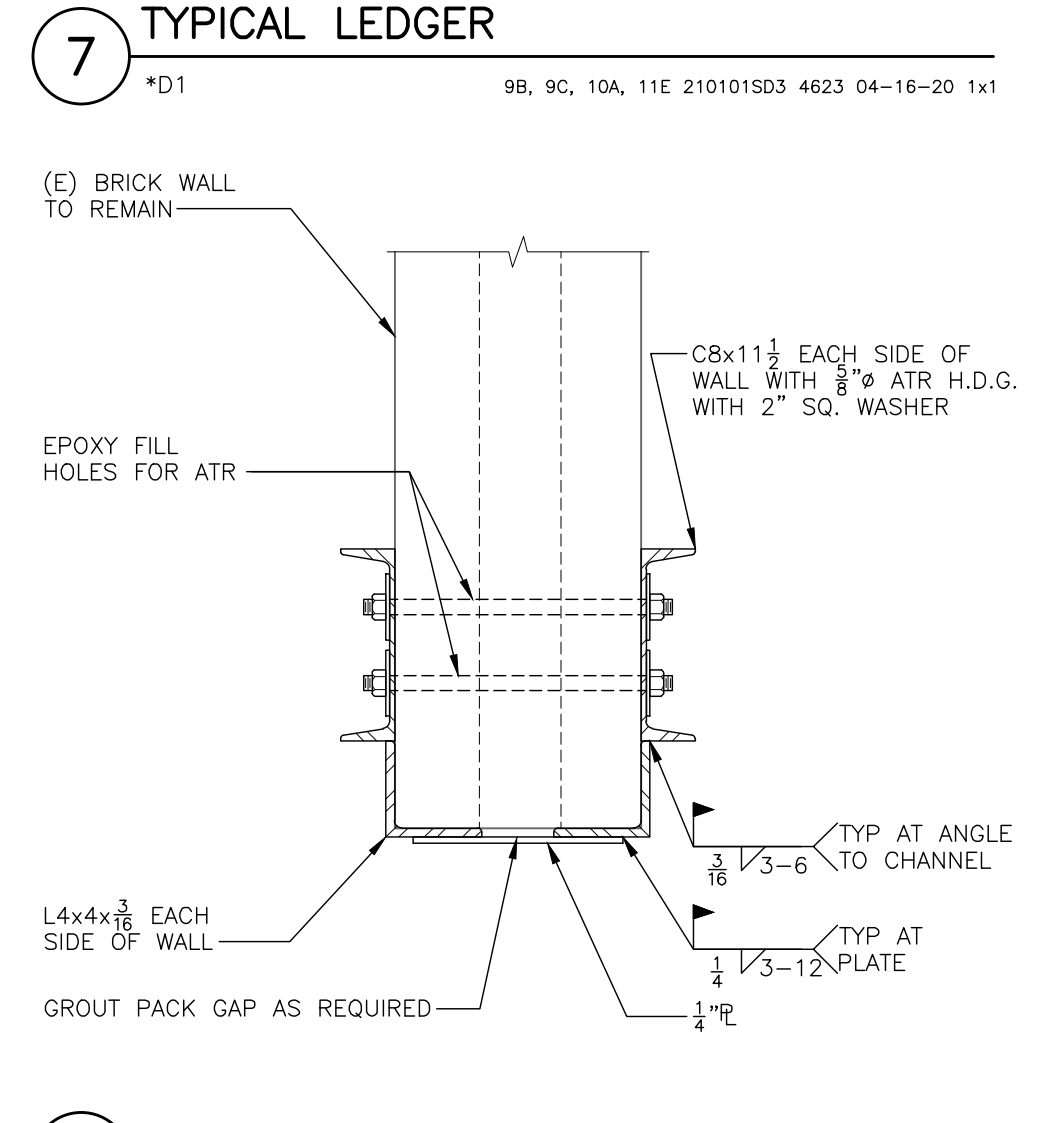
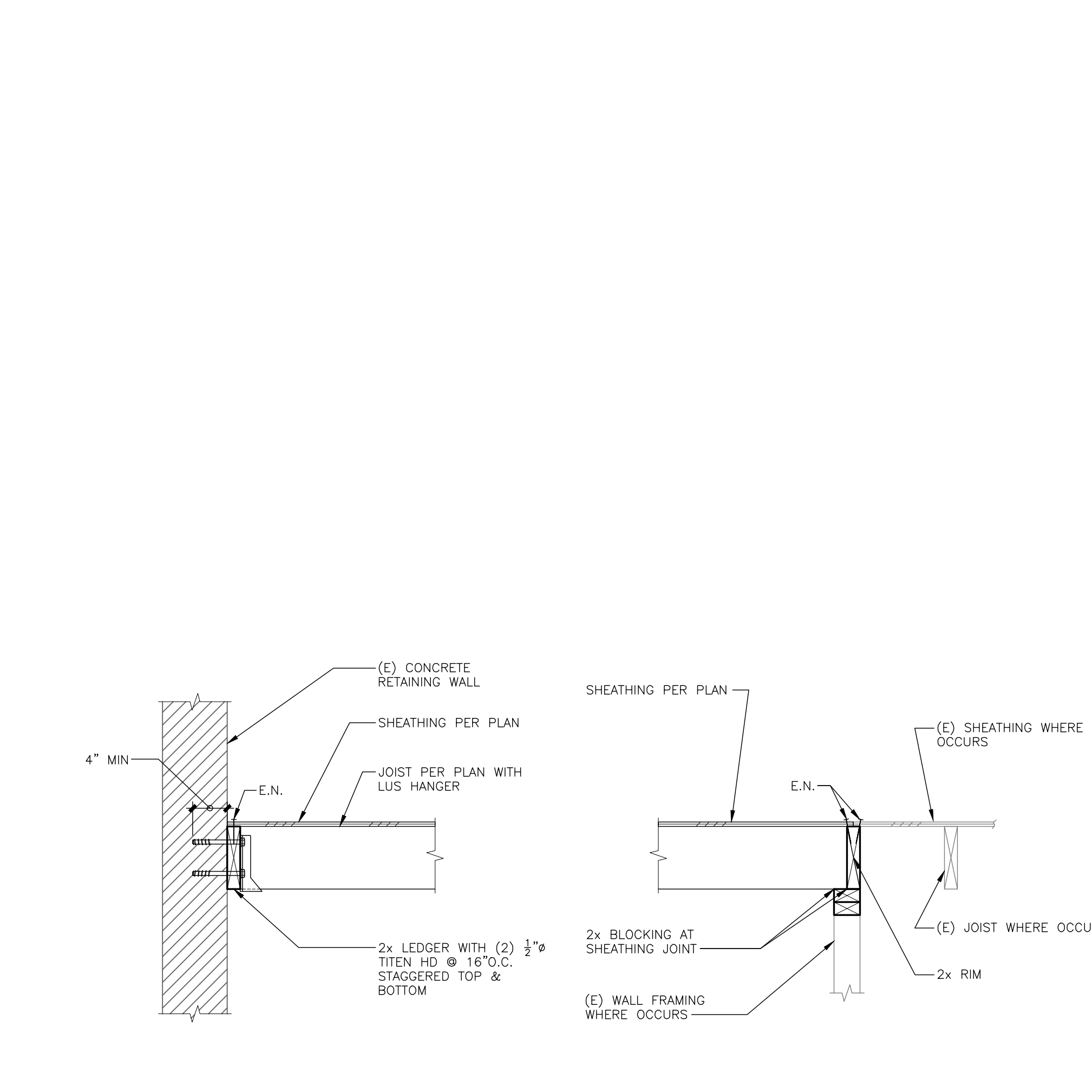
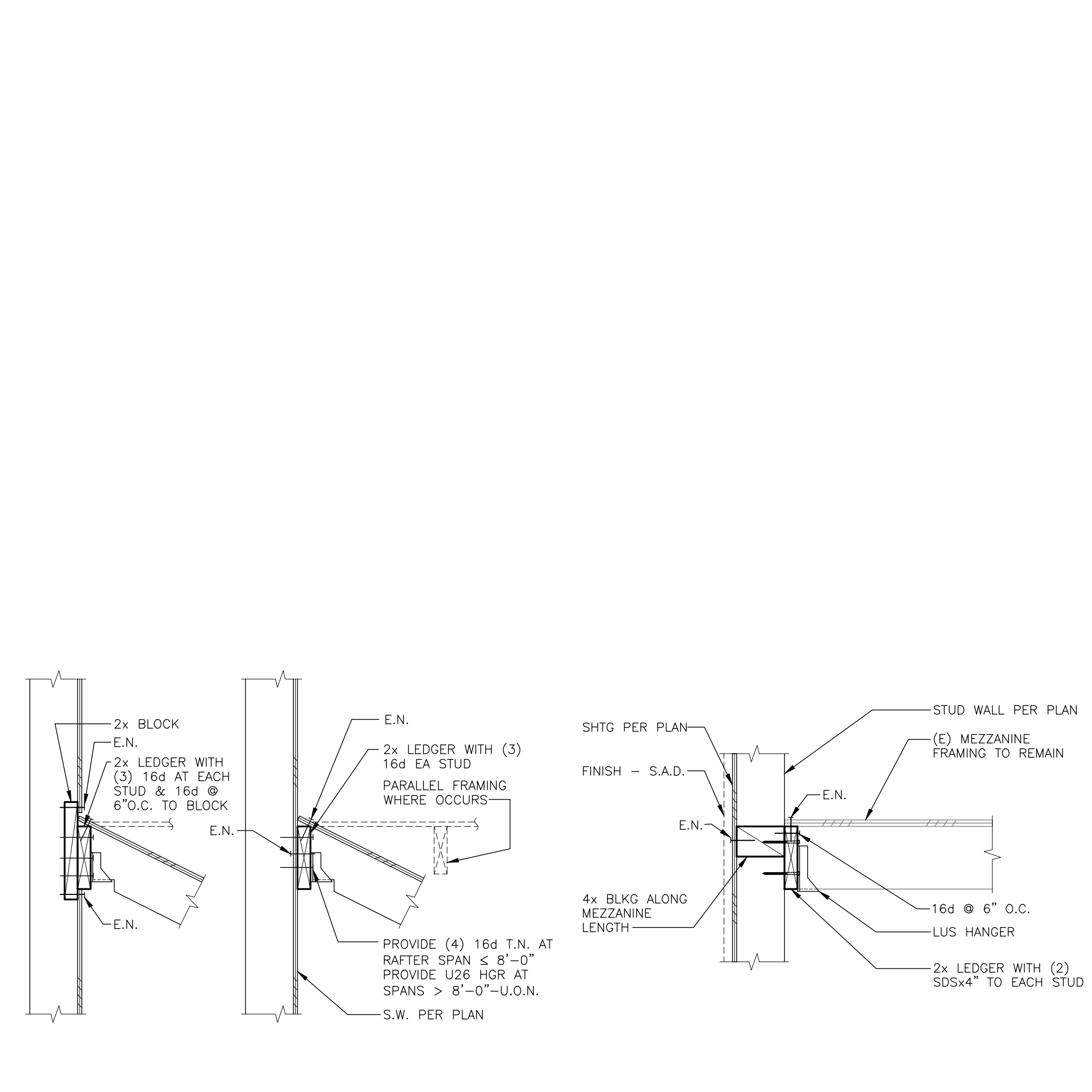
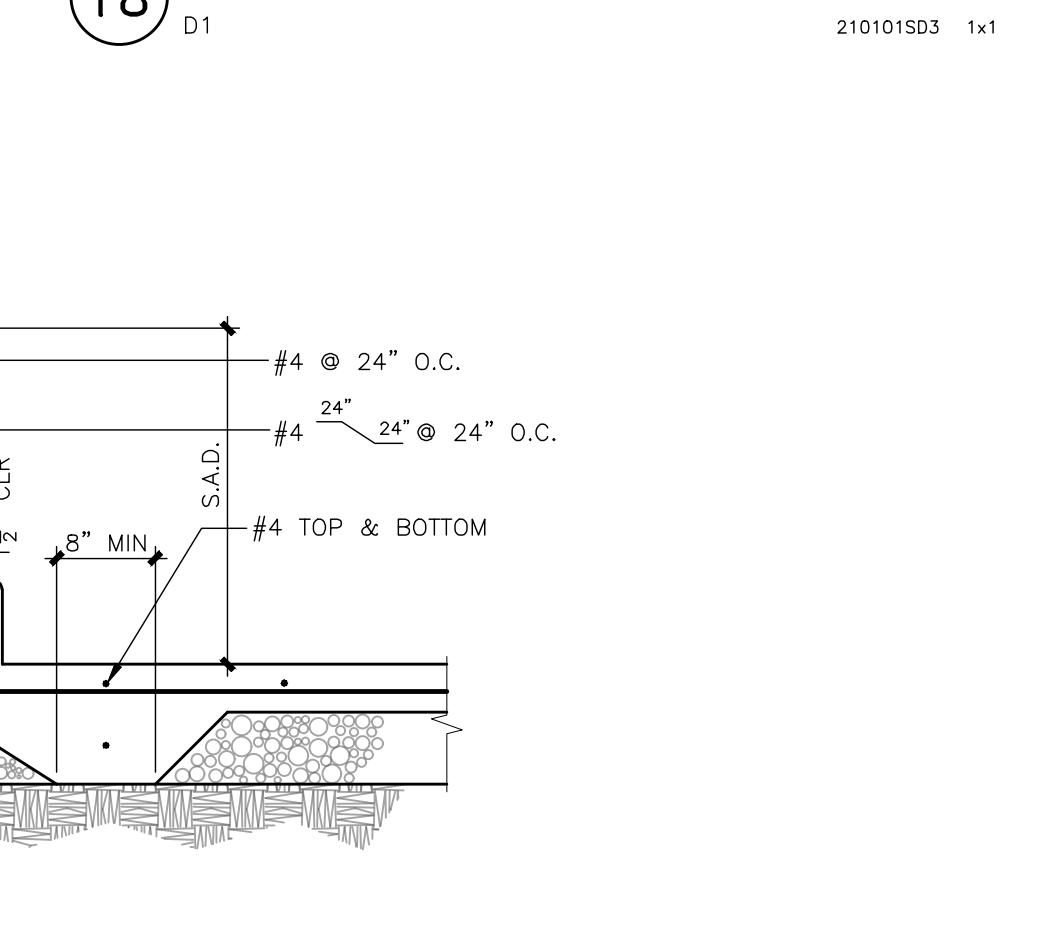
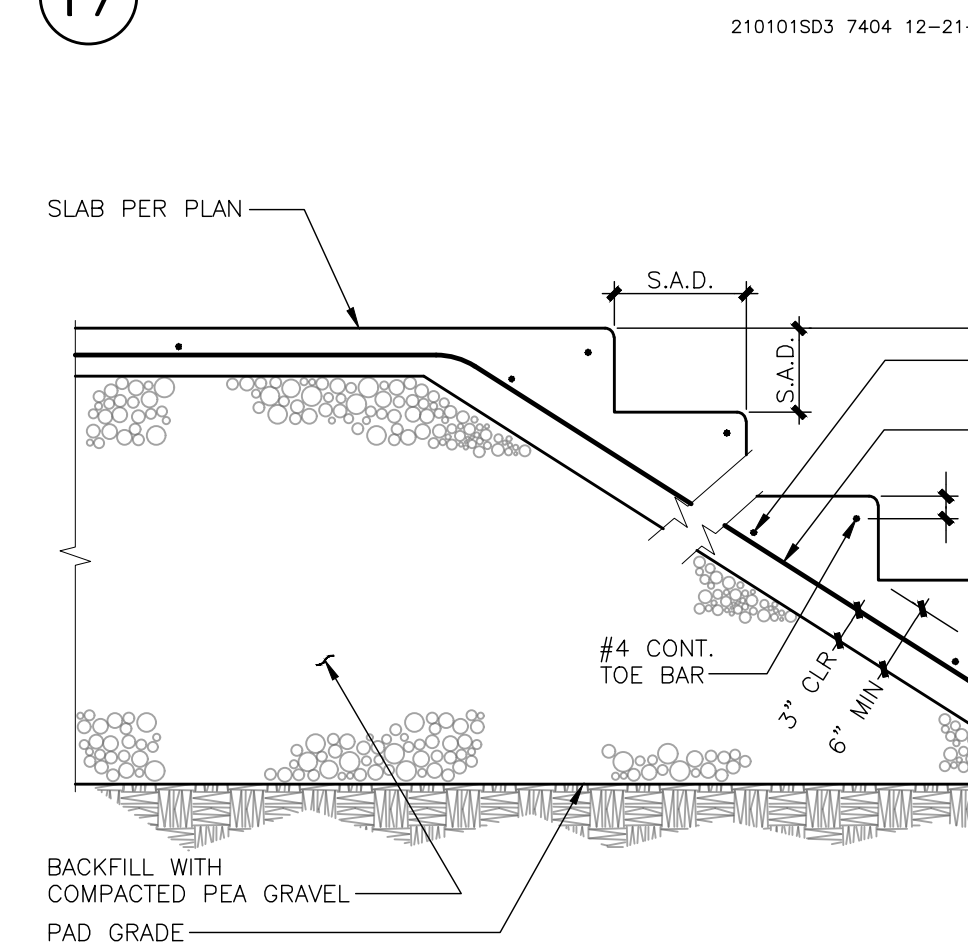
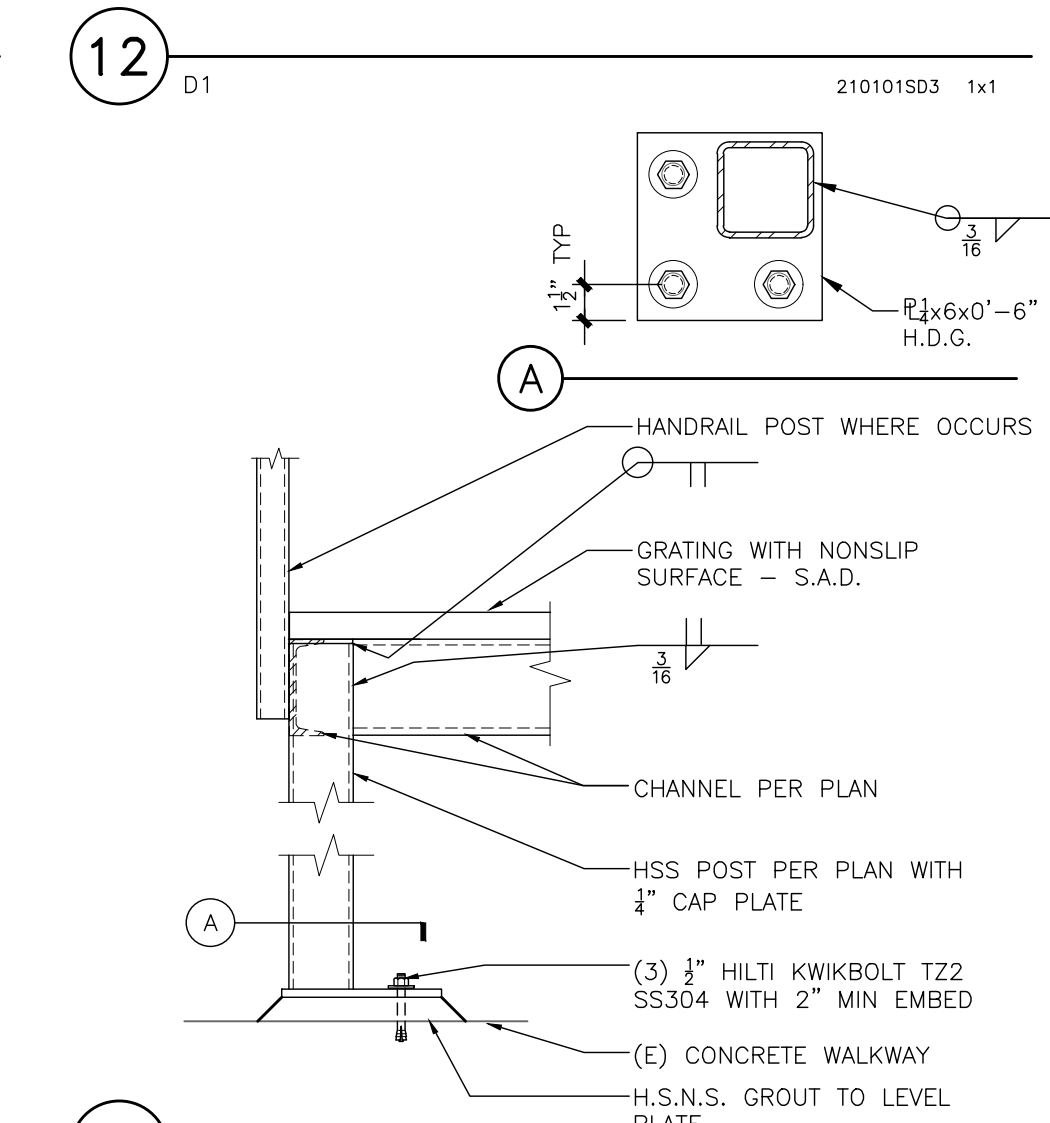
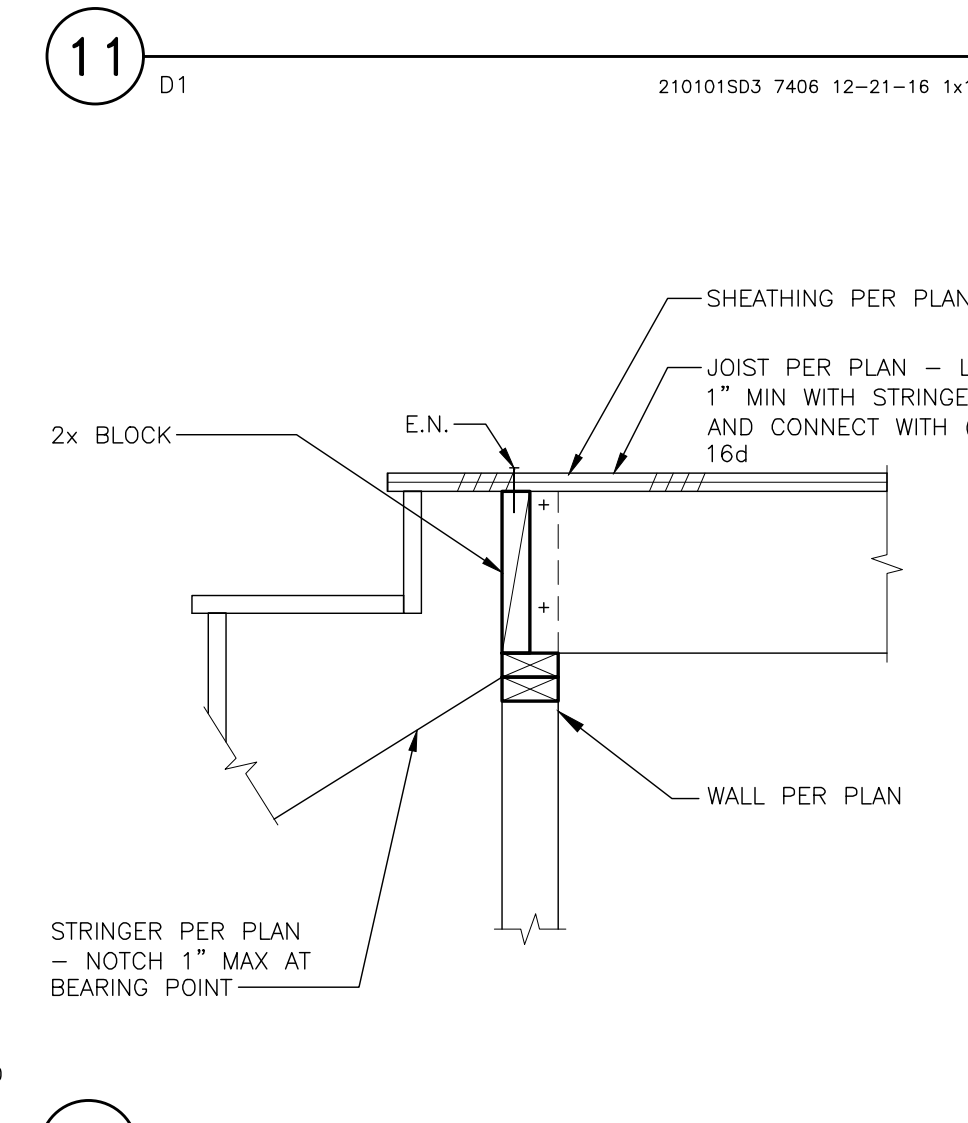
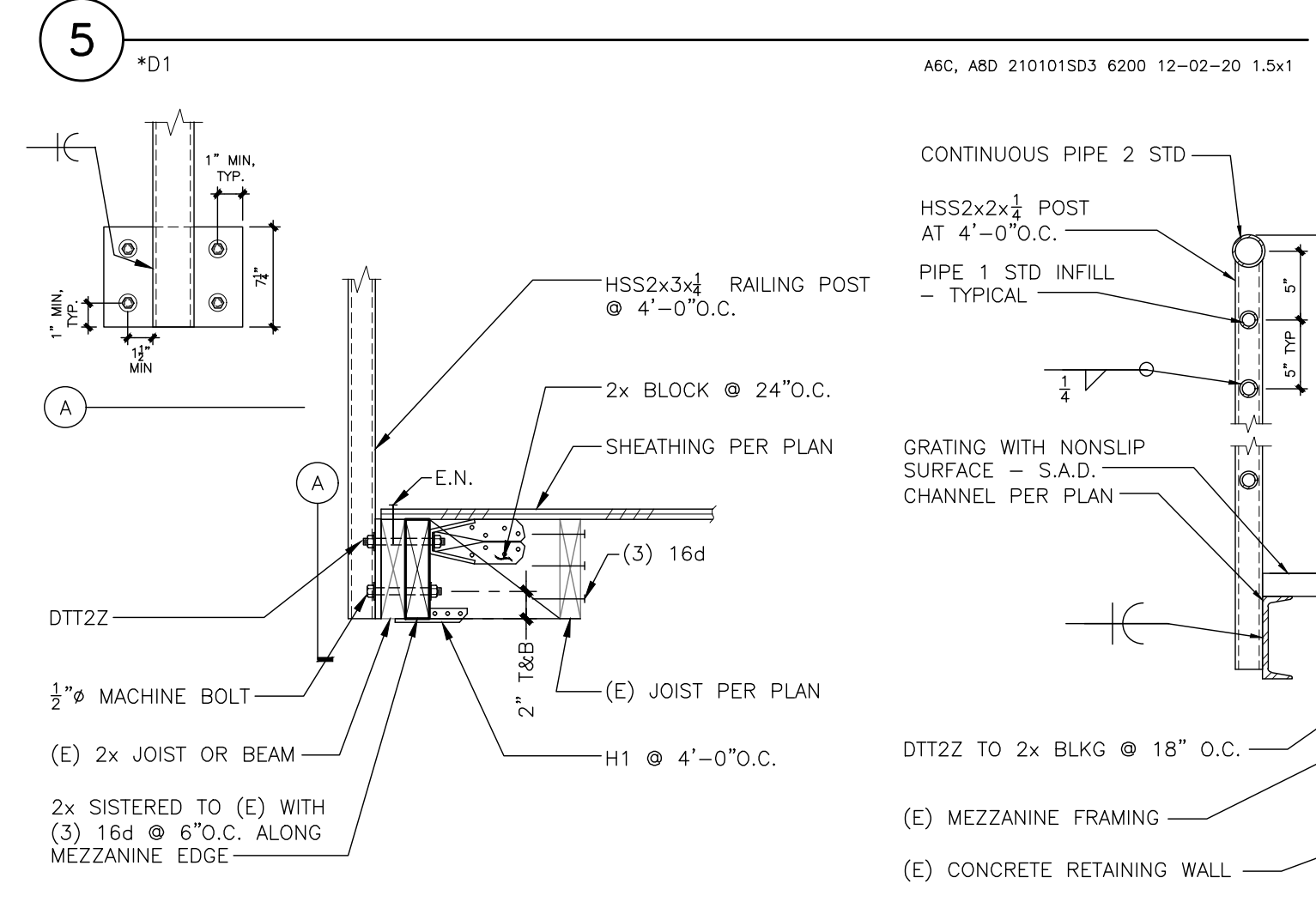
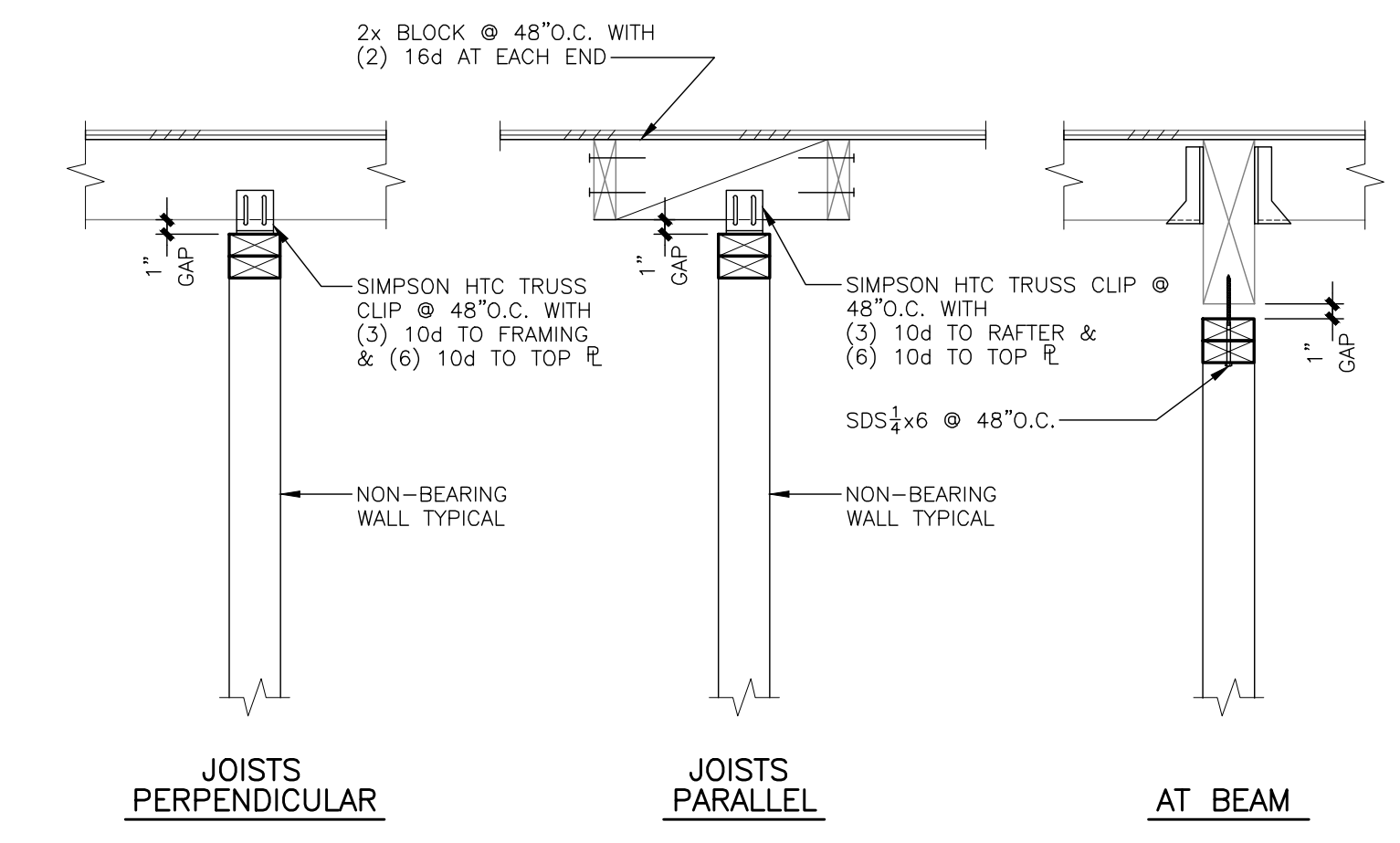
FOR PLAN VIEW ONLY

DATE	DESCRIPTION
08-11-2022	ISSUE FOR PERMIT APPLICATION
03-11-2022	ISSUE FOR PERMIT APPLICATION
02-04-2022	ISSUE FOR PERMIT APPLICATION

ISSUE INFORMATION  
Designer: JENNIFER

PD: ER SR#: --  
Job No: 210101  
File: 210101502  
Plot Date: 8/11/2022  
Sheet Title:  
STRUCTURAL DETAILS  
Sheet:  
**SD2**





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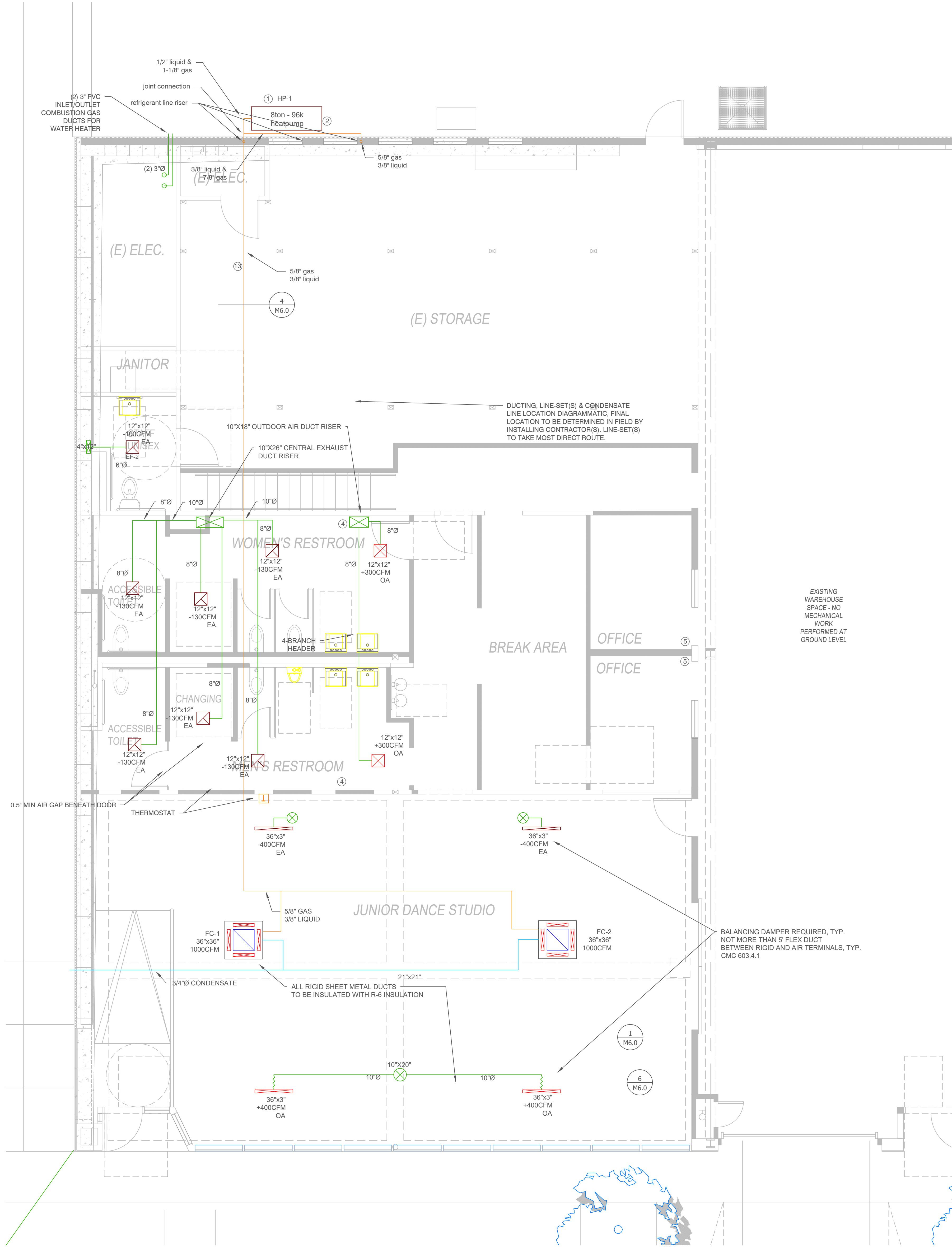


**General Notes:**

- A. NEW 10-TON HEATPUMP MULTI SPLIT SYSTEMS. HP-1, FC-1 TO CONDITION DANCE STUDIO AREA. FC-3, FC-4, FC-5 TO SERVE 4 SPLITS IN RESTROOMS AND OFFICE AREA. HP-3, FC-6, FC-7, TO CONDITION UPPER FLOOR OFFICE AREA.
- B. OUTDOOR AIR SYSTEM TO CONSIST OF ENERGY RECOVERY VENTILATOR IN ATTIC WITH ROOF JACKS ON ROOF TOP.
- C. INDOOR FAN-COIL UNITS TO BE SUPPLIED POWER THROUGH DEDICATED CIRCUIT, INSULATED LINE-SET(S), AND CONDENSATE DRAIN TO OUTSIDE.
- D. OUTDOOR FAN-COIL UNITS TO BE PROVIDED WITH DEDICATED CIRCUIT AND WALL MOUNTED PULL DISCONNECT.
- E. LINE-SET/CONDENSATE LOCATION IS DIAGRAMMATIC - FINAL LOCATION AND POINT OF TERMINATION TO BE CONFIRMED BY INSTALLING CONTRACTOR(S).
- F. CONTRACTOR TO FIELD VERIFY NO WATER LEAKS AT EXISTING/NEW PENETRATIONS.
- G. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING/NEW EQUIPMENT.
- H. SUPPLY/RETURN/EXHAUST/OUTDOOR AIR SYSTEM TO BE FULLY SEALED WITH MASTIC, UL LISTED BUTYL FOIL TAPE, OR EQUAL.
- I. SYSTEM TO BE TESTED FOR DUCT LEAKAGE AT LESS THAN 5% AT 25 PASCALS.
- J. EXHAUST AIR DUCT SHALL TERMINATE NOT LESS THAN 10 FEET FROM A FORCED AIR INLET (ECONOMIZER OR FRESH AIR SUPPLY).
- K. NEW RESTROOM EXHAUST FANS TO RE-USE EXISTING ROOF PENETRATIONS/JACKS - NEW ROOF PENETRATIONS WHERE NECESSARY.

**Key Notes: #**

1. HP-1 TO BE GROUND MOUNTED 8-TON VRF HEAT PUMP. HP-1 TO BE 3-PHASE, 240V, SUPPLIED WITH 60 MIN. AMP CIRCUIT AND 50A CIRCUIT BREAKER. HP-1 TO BE SUPPLIED WITH ELECTRICAL DISCONNECT WITHIN 3' PROXIMITY OF OUTDOOR UNIT. HP-1 OUTDOOR UNIT AND FAN COILS TO HAVE INDEPENDENT CIRCUITS.
2. REFERENCE TRANE/MITSUBISHI SINGLE LINE DIAGRAM FOR ELECTRICAL AND REFRIGERANT LINE SET INFORMATION.
3. DUCTLESS FAN COIL (FC-1, FC-2, FC-3) TO BE RECESSED CEILING MOUNTED CASSETTES FRAMED WITHIN 3'X3'X2" CEILING DROP. SEE DETAILS.
4. DUCTLESS FAN COIL (FC-3, FC-4) TO BE 1 WAY THROW CEILING SUSPENDED.
5. EACH INDOOR FAN COIL TO BE ATTACHED BY SUSPENSION BOLT, NUT, WASHER - SEE INSTALLATION DIAGRAMS AND INSTRUCTIONS.
6. CONDENSATE DRAIN TO HAVE MINIMUM OF 2% SLOPE (1/4" = 10') TO POINT OF TERMINATION. TERMINATION TO NOT CONNECT TO SANITARY WASTE SYSTEM. LINE-SETS TO BE 1/2" FOAM INSULATED AND COMPLETELY SEALED.
7. EXHAUST AIR DUCT SHALL TERMINATE NOT LESS THAN 10 FEET FROM A FORCED AIR INLET (ECONOMIZER, FRESH AIR SUPPLY, OR SUPPLY AIR FAN).
8. RESTROOM CENTRAL EXHAUST SYSTEM TO ROUTE TO ROOF MOUNTED FAN. PENETRATIONS/JACKS - NEW ROOF PENETRATIONS WHERE NECESSARY.
9. LINE-SETS TO BE INSULATED PER CMC 1", TYP. SEE NOTE AND INSULATION TABLE THICKNESS.
10. ACCESSIBILITY REQUIRED THROUGH ATTIC FOR ALL INDOOR UNITS FOR SERVICE/MAINTENANCE. MAINTAIN 30" CLEAR IN FRONT OF SERVICE PANEL.
11. BATHROOM EXHAUST VENTILATION SYSTEM TO BE ON SINGLE MECHANICAL FAN. FAN TO BE ACTUATED BY EITHER BATHROOM SWITCH VIA CONTACTOR/RELAY SYSTEM. SEE ELECTRICAL SHEETS.
12. SINGLE USE BATHROOMS TO BE ON INDEPENDENT EXHAUST FAN SYSTEM, WALL SWITCH W/ OCCUPANCY SENSOR & TIMER. TYP.



**LEGEND**

- Supply Duct Rigid/Flex
- Return Duct Rigid/Flex
- Vent Duct Rigid/Flex
- Supply Air Duct/Terminal
- Return Air Duct/Terminal
- Exhaust Air Duct/Terminal
- Liquid/Gas Line-Set
- Condensate Line
- Ducted Fan Coil
- MiniSplit - Ceiling Cassette Recessed (4-Way Throw)
- MiniSplit - Wall Mount (1-Way Throw)
- Thermostat Controller
- Exhaust Fan
- Supply Fan
- Outdoor Air Supply
- Exhaust Air
- Riser
- Balancing Damper

**Duct Sizing Chart**

AIRFLOW CFM	SUPPLY/RETURN DUCT SIZE		
	Round	Rectangular	
50	4" Ø	-	-
80	5" Ø	-	-
100	6" Ø	3" x 10"	-
200	8" Ø	6" x 8"	-
300	10" Ø	10" x 8"	-
400	12" Ø	16" x 8"	-
600	14" Ø	22" x 8"	14" x 12"
800	16" Ø	28" x 8"	16" x 12"
900	17" Ø	32" x 8"	20" x 12"
1000	18" Ø	-	24" x 12"
1400	20" Ø	-	28" x 12"
1800	22" Ø	-	34" x 12"

1 FIRST FLOOR MECHANICAL/HVAC LAYOUT

Scale: 1/4" = 1' 0"



**Revisions**

#	Note	Date
		10/20/22

Drawn by: ----  
Check by:  
Date: 10/20/22  
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**General Notes:**

- (3) NEW HEATPUMP MINI SPLIT SYSTEMS. SYSTEM 1 (HP-1, FC-1, FC-2) TO CONDITION DANCE STUDIO AREA, SYSTEM 2 (HP-2, FC-3, FC-4, FC-5) TO SERVE 4 SPLITS IN RESTROOMS AND OFFICE AREA. SYSTEM 3 (HP-3, FC-6, FC-7) TO CONDITION UPPER FLOOR OFFICE AREA.
- OUTDOOR AIR SYSTEM TO CONSIST OF CENTRALIZED EXHAUST FAN AND OUTDOOR AIR SUPPLY FAN MOUNTED ON ROOF TOP.
- INDOOR FAN-COIL UNITS TO BE SUPPLIED POWER THROUGH DEDICATED CIRCUIT, INSULATED LINE-SET(S), AND CONDENSATE DRAIN TO OUTSIDE.
- OUTDOOR FAN-COIL UNITS TO BE PROVIDED WITH DEDICATED CIRCUIT AND WALL MOUNTED PULL DISCONNECT.
- LINE-SET/CONDENSATE LOCATION IS DIAGRAMMATIC - FINAL LOCATION AND POINT OF TERMINATION TO BE CONFIRMED BY INSTALLING CONTRACTOR(S).
- CONTRACTOR TO FIELD VERIFY NO WATER LEAKS AT EXISTING/NEW PENETRATIONS.
- CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING/NEW EQUIPMENT.
- SUPPLY/RETURN/EXHAUST/OUTDOOR AIR SYSTEM TO BE FULLY SEALED WITH MASTIC, UL LISTED BUTYL FOIL TAPE, OR EQUAL.
- SYSTEM TO BE TESTED FOR DUCT LEAKAGE AT LESS THAN 5% AT 25 PASCALS
- EXHAUST AIR DUCT SHALL TERMINATE NOT LESS THAN 10 FEET FROM A FORCED AIR INLET (ECONOMIZER OR FRESH AIR SUPPLY).
- NEW RESTROOM EXHAUST FANS TO RE-USE EXISTING ROOF PENETRATIONS/JACKS - NEW ROOF PENETRATIONS WHERE NECESSARY.

**Key Notes: #**

- DUCTLESS FAN COIL (FC-7, FC-8) TO BE RECESSED CEILING MOUNTED CASSETTES FLUSH MOUNTED TO CEILING.
- EACH INDOOR FAN COIL TO BE ATTACHED BY SUSPENSION BOLT, NUT, WASHER - SEE INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- CONDENSATE DRAIN TO HAVE MINIMUM OF 2% SLOPE (1/4" = 10') TO POINT OF TERMINATION. TERMINATION TO NOT CONNECT TO SANITARY WASTE SYSTEM. LINE-SETS TO BE 1/2" FOAM INSULATED AND COMPLETELY SEALED.
- EXHAUST AIR DUCT SHALL TERMINATE NOT LESS THAN 10 FEET FROM A FORCED AIR INLET (ECONOMIZER, FRESH AIR SUPPLY, OR SUPPLY AIR FAN).
- RESTROOM CENTRAL EXHAUST SYSTEM TO ROUTE TO ROOF MOUNTED OUTLET. PENETRATIONS/JACKS - NEW ROOF PENETRATIONS WHERE NECESSARY.
- ACCESS REQUIRED FOR ALL INDOOR UNITS TO PERFORM SERVICE/MAINTENANCE



**LEGEND**

- Supply Duct Rigid/Flex
- Return Duct Rigid/Flex
- Vent Duct Rigid/Flex
- Supply Air Duct/Terminal
- Return Air Duct/Terminal
- Exhaust Air Duct/Terminal
- Liquid/Gas Line-Set
- Condensate Line
- Ducted Fan Coil
- MiniSplit - Ceiling Cassette Recessed (4-Way Throw)
- MiniSplit - Wall Mount (1-Way Throw)
- Thermostat Controller
- Exhaust Fan
- Supply Fan
- Outdoor Air Supply
- Exhaust Air
- Riser
- Balancing Damper

**Duct Sizing Chart**

AIRFLOW CFM	SUPPLY/RETURN DUCT SIZE		
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600	14" Ø	22" x 8"	14" x 12"
800	16" Ø	28" x 8"	16" x 12"
900	17" Ø	32" x 8"	20" x 12"
1000	18" Ø	-	24" x 12"
1400	20" Ø	-	28" x 12"
1800	22" Ø	-	34" x 12"

2 SECOND FLOOR MECHANICAL/HVAC LAYOUT

Scale: 1/4" = 1' 0"



**Revisions**

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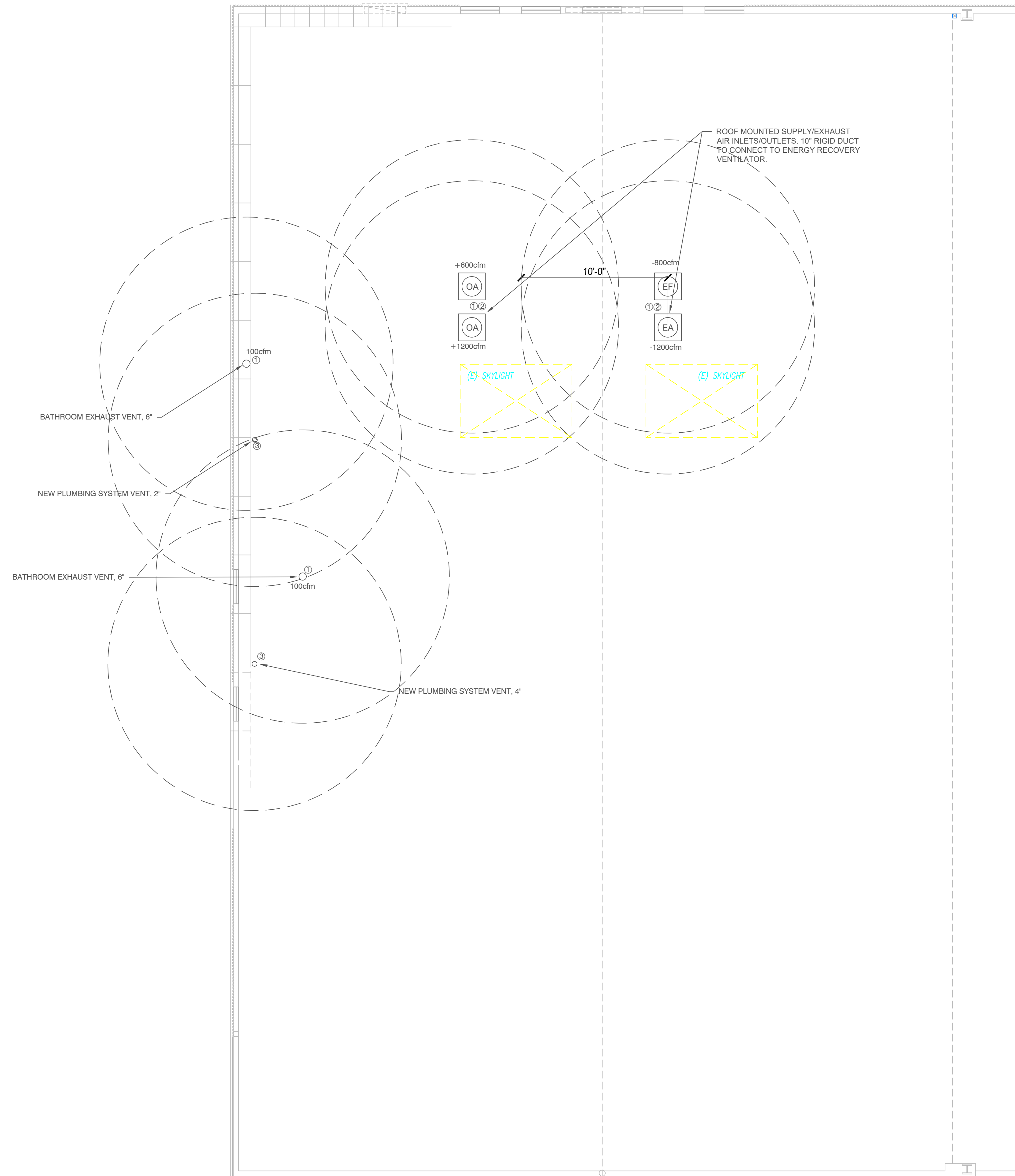


**General Notes:**

- A. ALL ROOF PENETRATIONS TO BE WATER SEALED PER DETAILS
- B. ALL ROOF PENETRATIONS TO BE CHECKED FOR LEAKS AFTER INSTALLATION
- C. VENTILATION DUCTS TO BE MADE OF RIGID SHEET METAL, 22 GAUGE MIN.

**Key Notes: #**

- 1. EXHAUST AIR DUCT/FAN SHALL TERMINATE NOT LESS THAN 10 FEET FROM A FORCED AIR INLET (ECONOMIZER, FRESH AIR SUPPLY, OR SUPPLY AIR FAN), OR OPERABLE WINDOW.
- 2. RESTROOM CENTRAL EXHAUST SYSTEM TO ROUTE TO ROOF MOUNTED FAN. PENETRATIONS/JACKS - NEW ROOF PENETRATIONS WHERE NECESSARY.
- 3. PLUMBING SYSTEM VENT TO REMAIN 10' FROM ANY OPERABLE WINDOW, FORCED AIR INLET



**LEGEND**

- Supply Duct Rigid/Flex
- Return Duct Rigid/Flex
- Vent Duct Rigid/Flex
- Liquid/Gas Line-Set
- Condensate Line
- Ducted Fan Coil
- MiniSplit - Ceiling Cassette Recessed (4-Way Throw)
- MiniSplit - Wall Mount (1-Way Throw)
- Thermostat Controller
- Exhaust Fan (EF)
- Supply Fan (SF)
- Outdoor Air Supply (OA)
- Exhaust Air (EA)
- Riser
- Balancing Damper

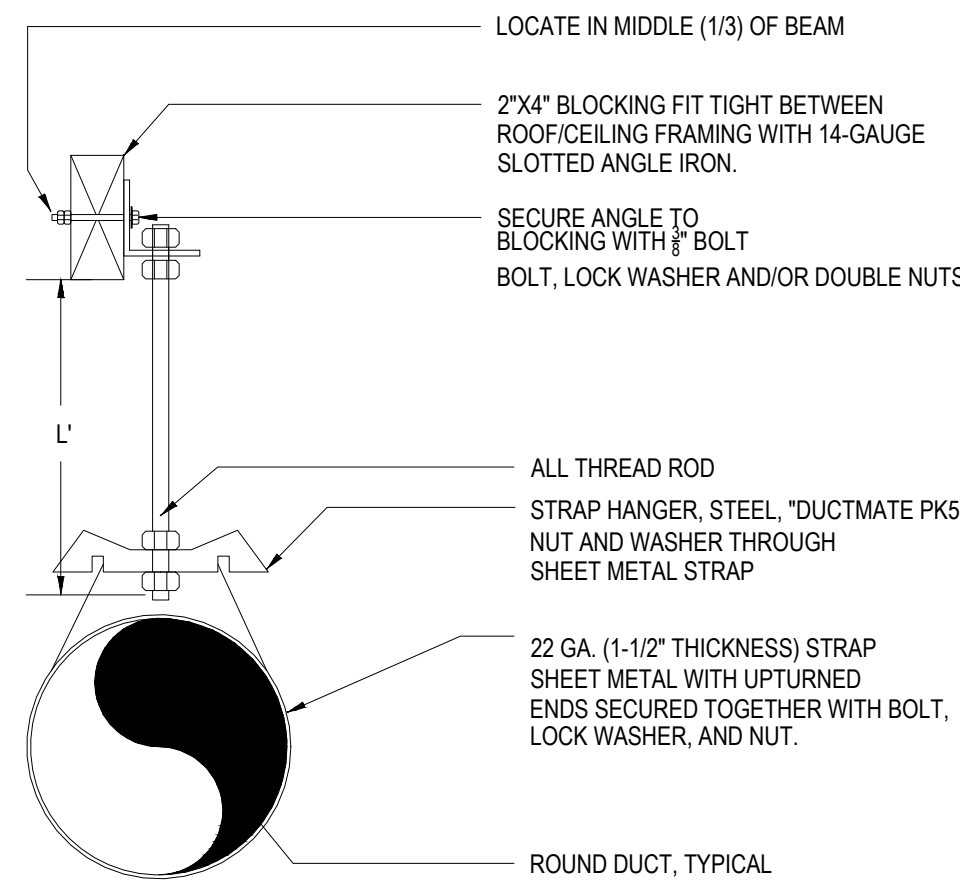
**OWNER IMPROVEMENT**  
 301 N PETALUMA BLVD PETALUMA CA



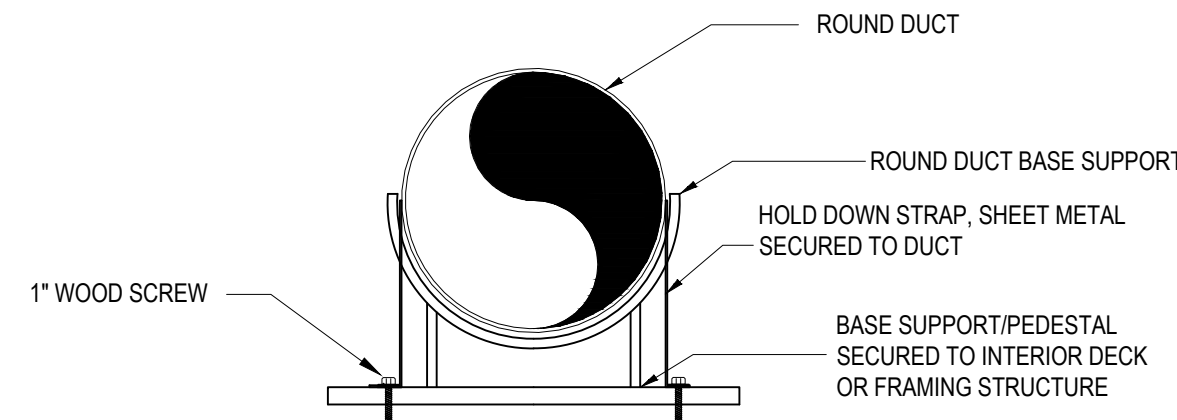
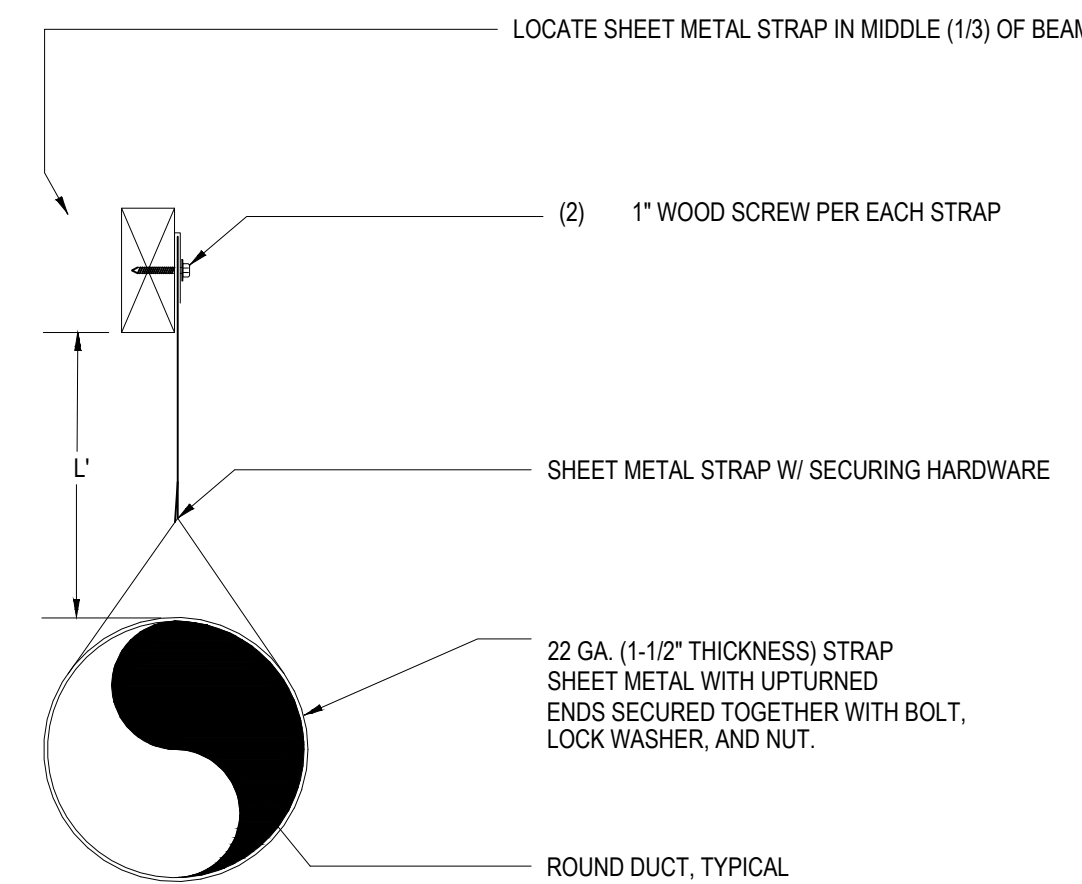
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NOTE: INSTALL VERTICAL SUPPORT, SEISMIC BRACING AT 6'-0" ON CENTER, EQUALLY SPACED BETWEEN START/END OF DUCT U.O.N.

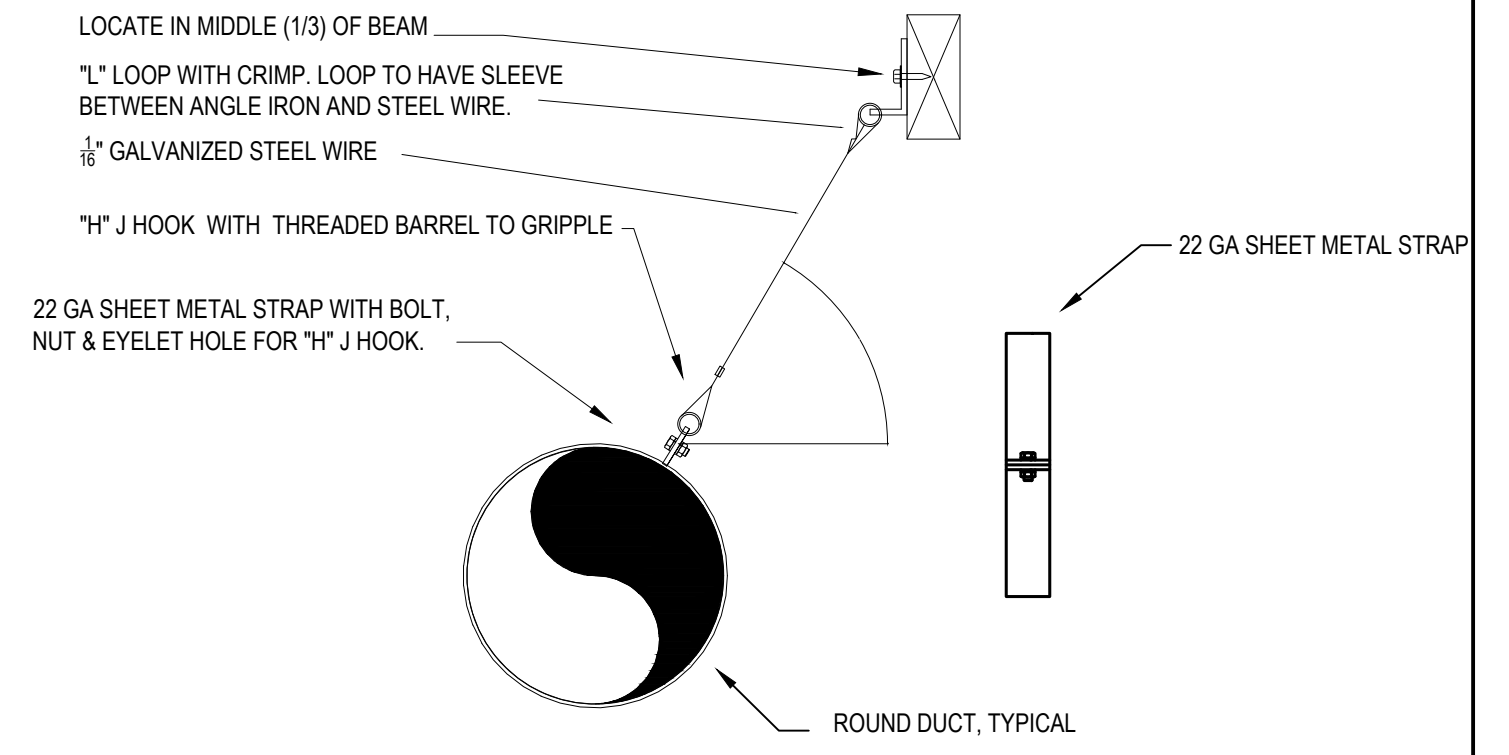


- NOTES:
- DUCTWORK SHALL CONFORM WITH: HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, THIRD EDITION, SMACNA - 2006.
  - DUCT WITH A CROSS-SECTIONAL AREA EQUAL TO OR GREATER THAN 6 SQUARE FEET, AND "L" GREATER THAN 12" REQUIRE SEISMIC BRACING.
  - OSHPD ONLY - SUPPLY & RETURN AIR DUCTS SERVING A HOSPITAL OR OTHER MEDICAL BUILDING SHALL NOT HAVE ACOUSTICALLY LINING OR INTERNALLY LINED INSULATION.

DUCT DIAMETER	MAXIMUM SPACING	ROD DIAMETER	STRAP
≤ 10"	12'	1/4"	1" x 22 GA
11" TO 18"	12'	1/4"	1" x 22 GA
19" TO 24"	12'	1/4"	1" x 22 GA
25" TO 36"	12'	3/8"	1" x 20 GA
37" TO 50"	12'	2 @ 3/8"	2 @ 1" x 20 GA
51" TO 60"	12'	2 @ 3/8"	2 @ 1" x 18 GA
61" TO 84"	12'	2 @ 3/8"	2 @ 1" x 16 GA
85" TO 96"	12'	2 @ 1/2"	2 @ 1-1/2" x 16 GA

- NOTES:
- STRAPS ARE GALVANIZED STEEL. RODS ARE UNCOATED OR GALVANIZED STEEL. WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATIVES.
  - TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS 1 LB./SF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS; SEE ALLOWABLE LOAD LIMITS WITH TABLE 5-1. HANGER SPACING MAY BE ADJUSTED BY SPECIAL ANALYSIS.
  - FOR INDUSTRIAL GRADE SUPPORTS, INCLUDING SADDLES, SINGLE POINT TRAPEZOID LOADS, LONGER SPANS AND FLANGED JOINT LOADS, SEE SMACNA'S ROUND INDUSTRIAL DUCT CONSTRUCTION STANDARDS.

HANGER SIZE CHART



DUCT SUPPORT DETAIL

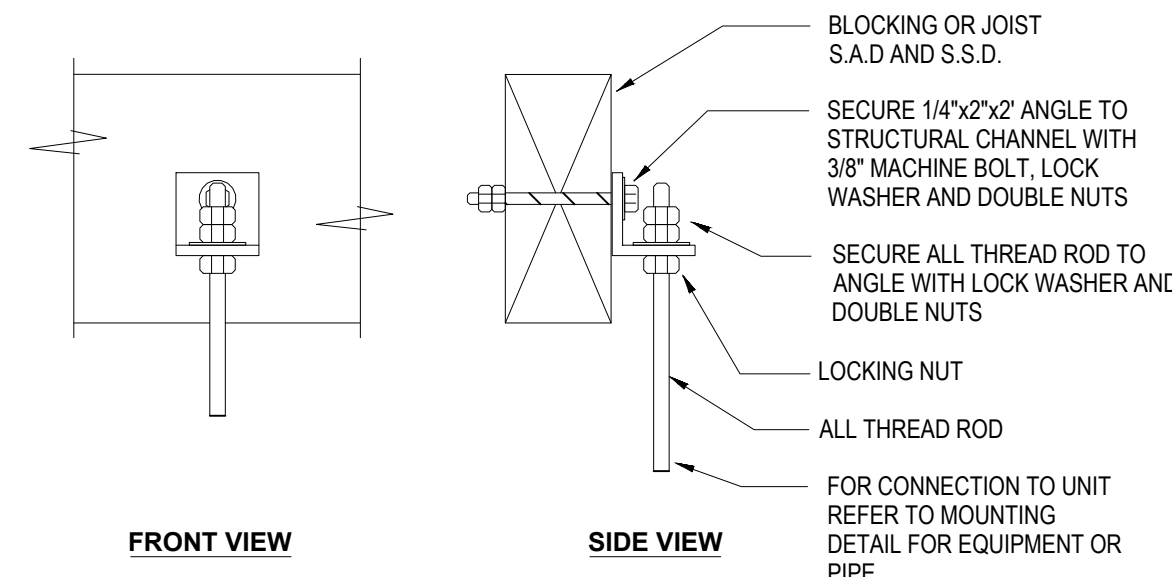
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SEISMIC BRACING DETAIL

SCALE: NONE

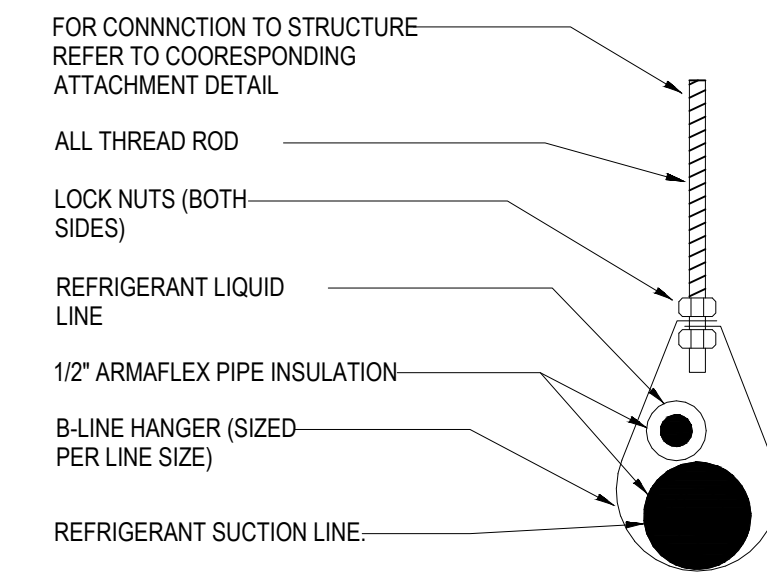
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ROD ATTACHMENT TO WOOD STRUCTURE

SCALE: NONE

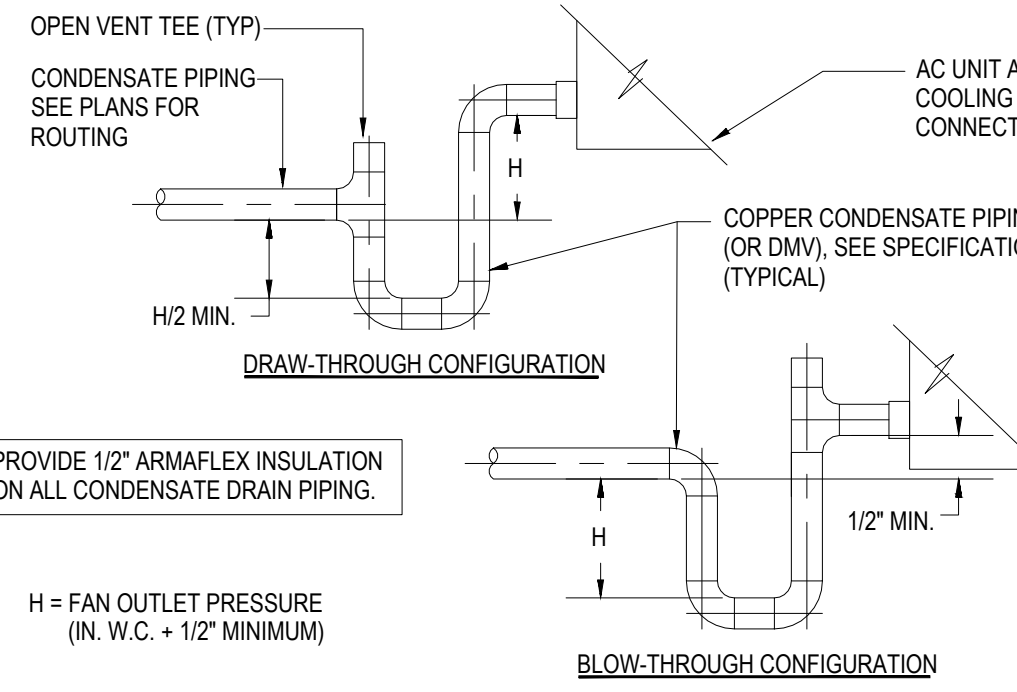
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REFRIGERANT PIPE HANGER DETAIL

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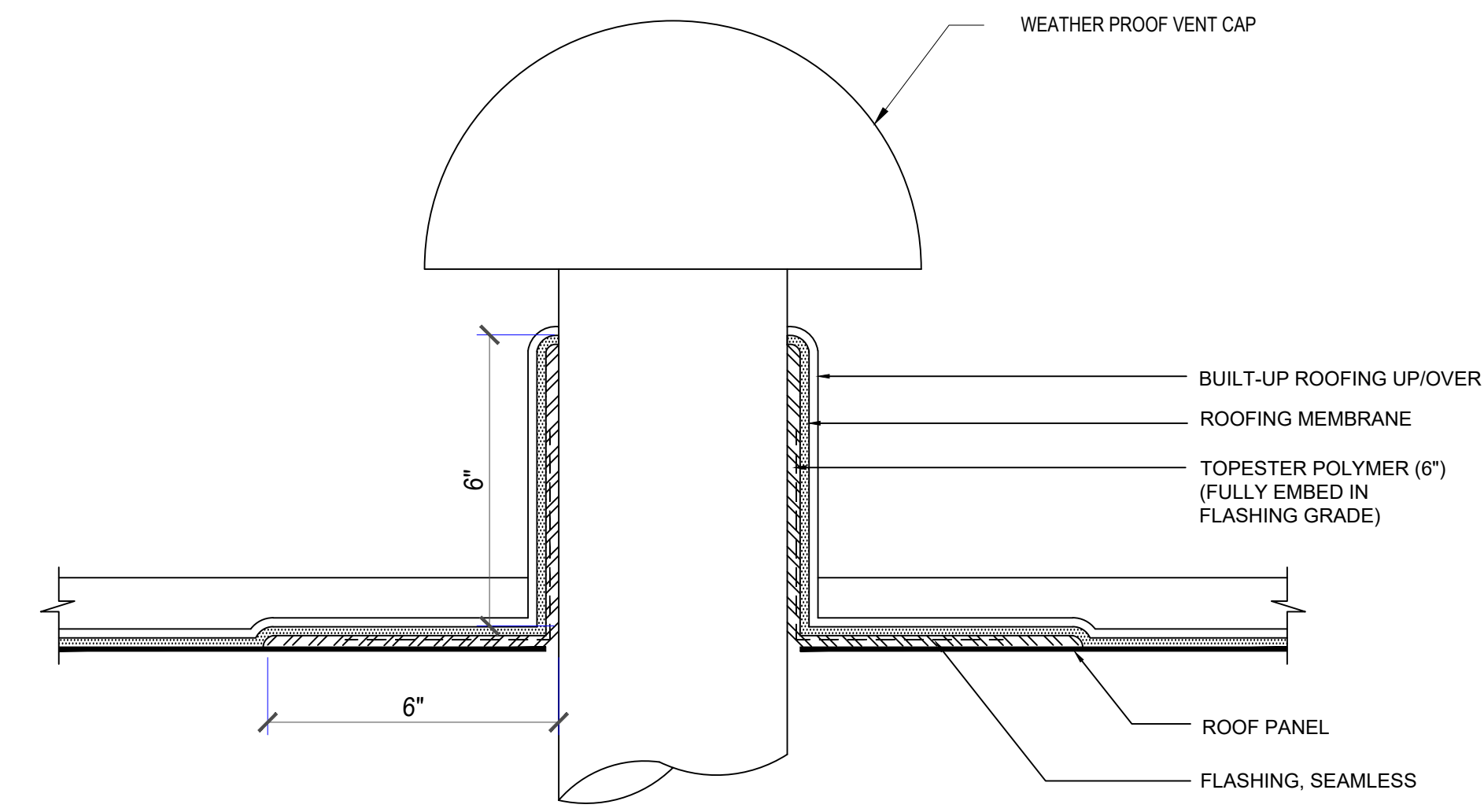
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CONDENSATE DRAIN P-TRAP DETAIL

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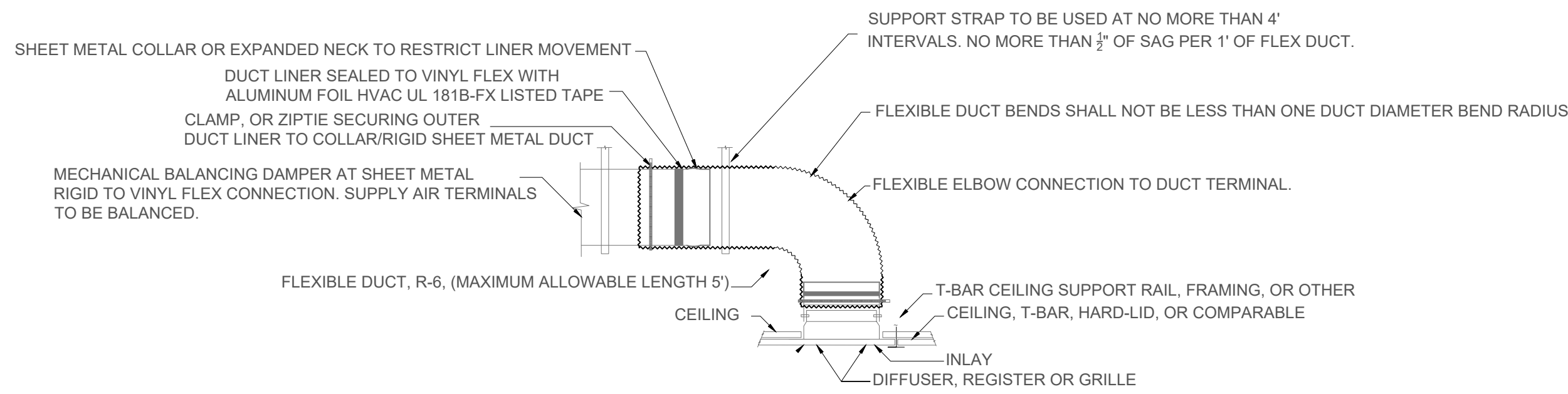
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ROOF PENETRATION DETAIL

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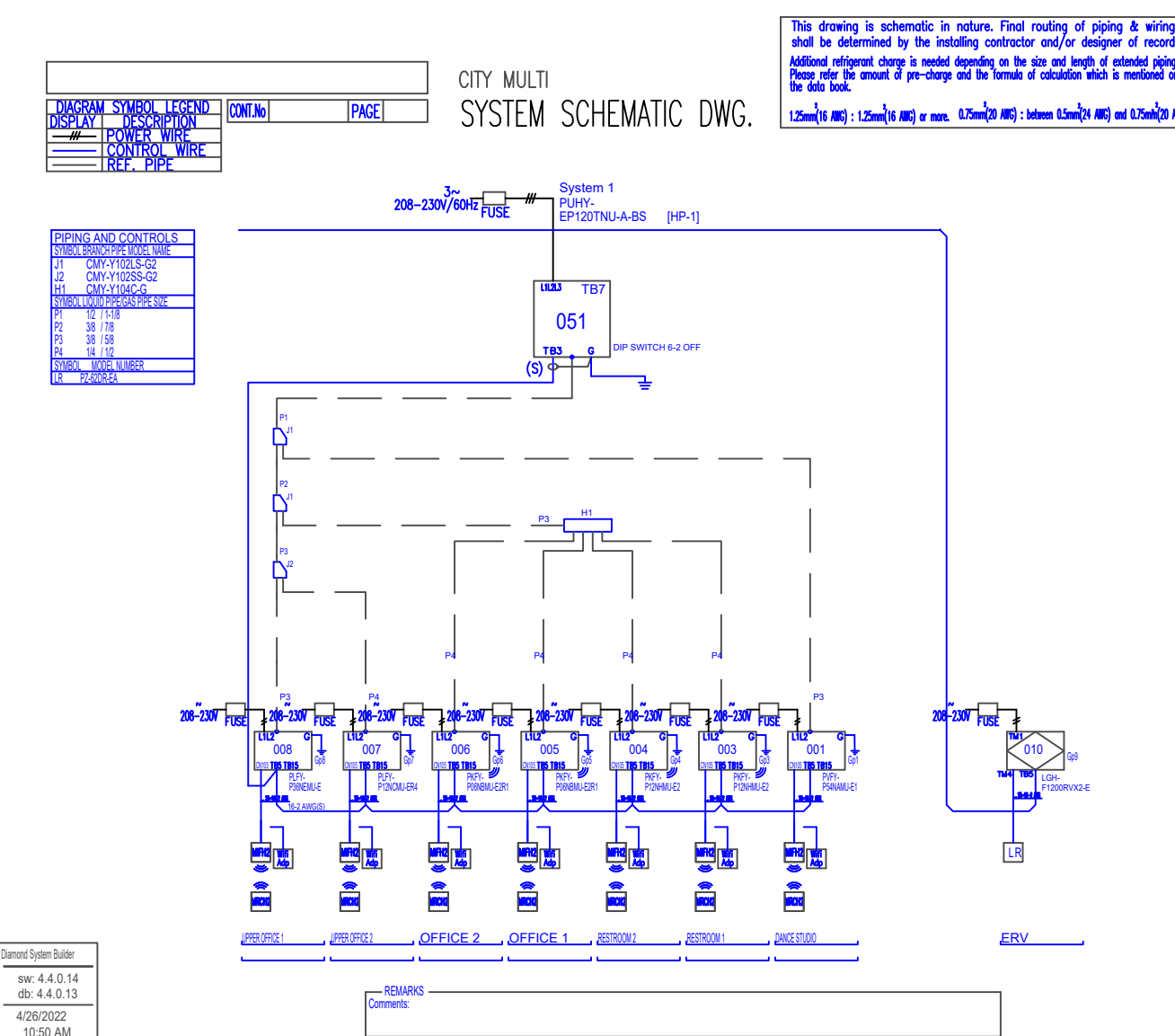
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AIR DUCT RIGID TO FLEX AND TERMINAL CONNECTION

SCALE: NONE

6



SCALE: NONE

6

SCALE: NONE

6

SCALE: NONE

6

OWNER IMPROVEMENT  
301 N PETALUMA BLVD PETALUMA CA



#	Note	Date
		10/20/22

Drawn by: ----  
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Date: 10/20/22  
Scale: ViewportScale

Mechanical Plan  
DETAILS  
M6.0





**OWNER IMPROVEMENT**  
301 N PETALUMA BLVD PETALUMA CA

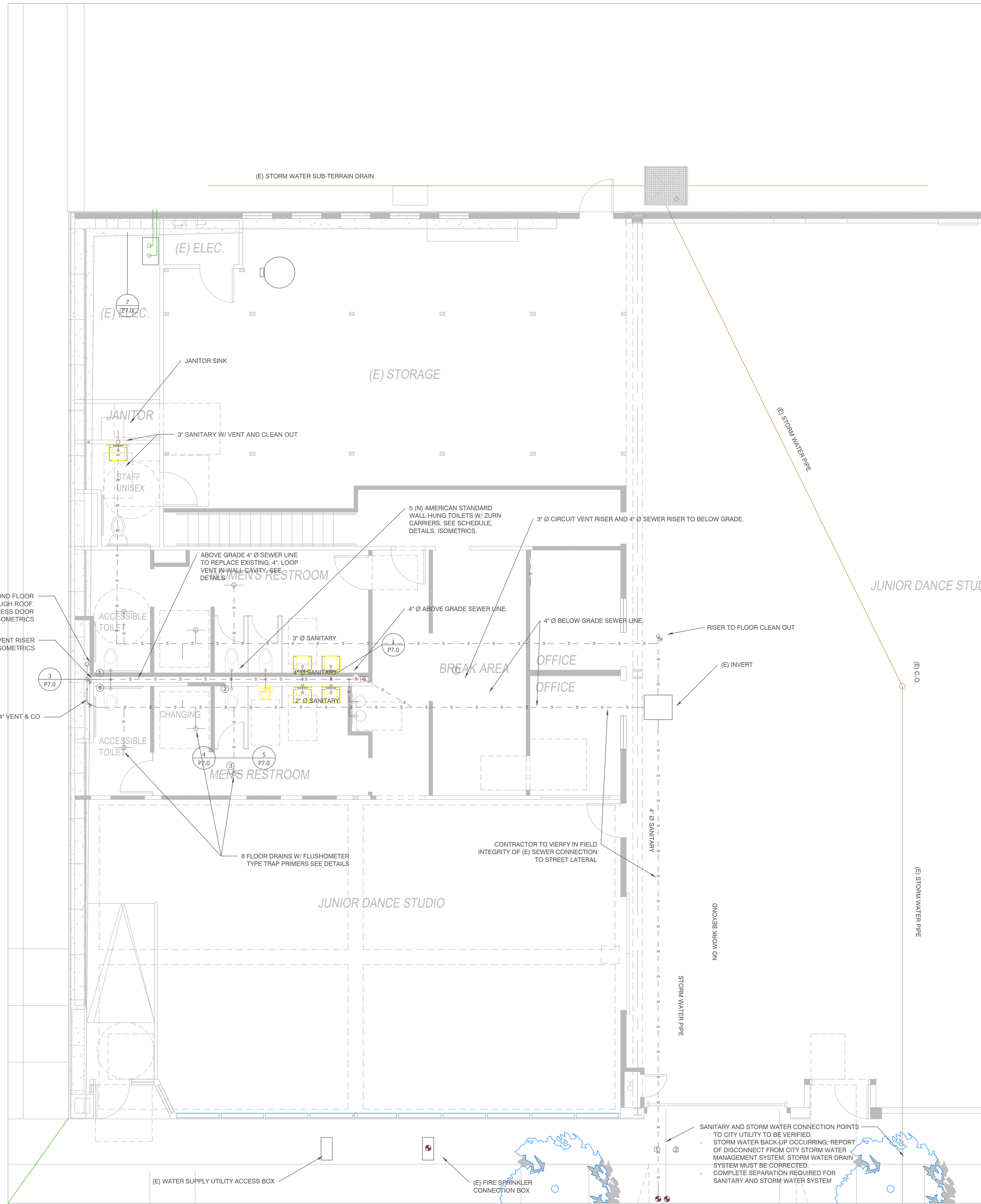
**General Notes:**

- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND DESIGNER IN WRITING PRIOR TO START OF WORK.
- B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- C. NEW WASTE WATER COMPONENTS TO JOIN EXISTING SYSTEM FLOOR AREA TO BE REMOVED FOR NEW P.O.C.
- E. MINIMUM 6" CLEARANCE VENT ATTACHMENT TO HIGHEST FIXTURE FLOOR PLAIN.
- F. ALL HORIZONTAL SEWER LINES GREATER THAN 100' TO HAVE CLEAN OUT.
- G. SANITARY SEWER AND VENT LINES TO BE MADE OF CAST IRON OR COMPARABLE MATERIAL.
- H.

**Key Notes: #**

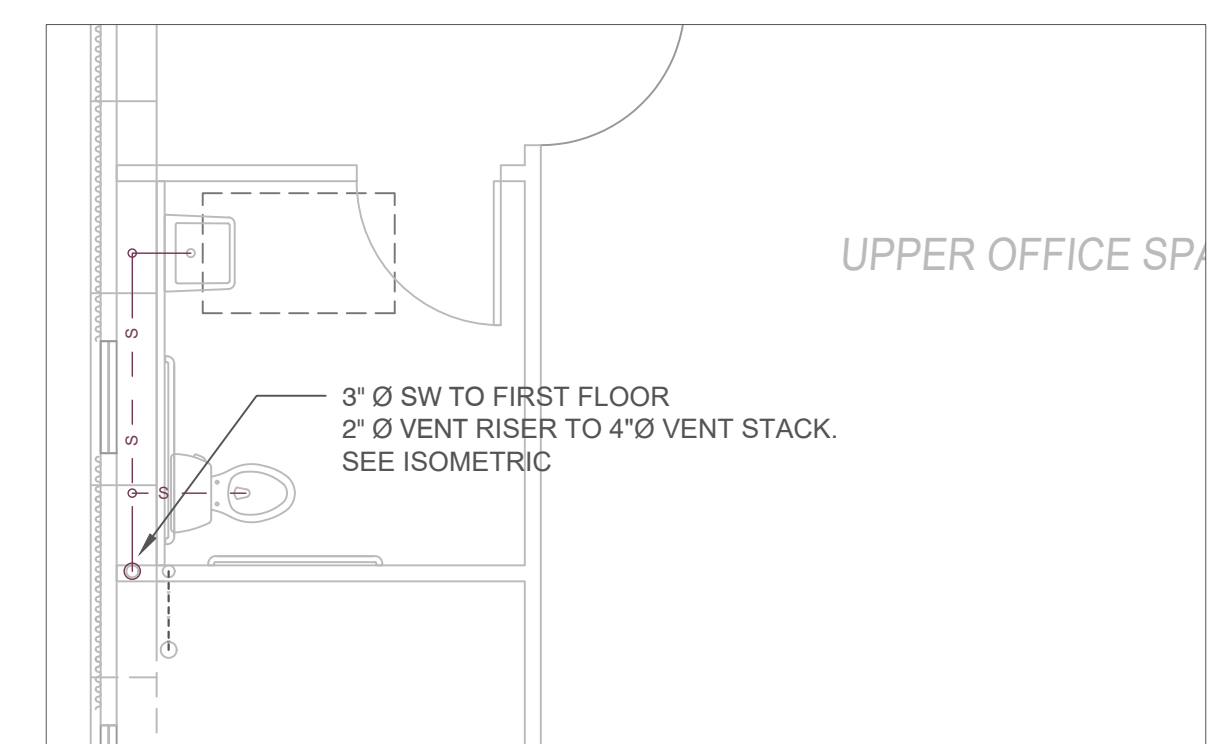
- 1. ABOVE GRADE SEWER PIPE (STRUCTURAL FOOTING BELOW). CIRCUIT VENT BATHROOM FIXTURES. SEE ISOMETRICS.
- 2. WALL HUNG TOILETS TO BE MOUNTED TO 2-WAY TOILET "ZURN" CARRIERS.
- 3. FLOOR DRAINS TO BE PROVIDED TRAP PRIMERS CONNECTED AT WATER CLOSET FLUSHMETER VALVES.
- 4. EXISTING SEWER WASTE LINE TO BE VERIFIED AS FUNCTIONAL. EXCAVATION REQUIRED.
- 5. STORM WATER LINE TO BE RUN INDEPENDENT TO NEW POINT OF CONNECTION WITH CITY OF PETALUMA WATER DISTRICT. EGRESS PERMIT REQUIRED FOR ANY EXCAVATION WORK ON EXTERIOR OF PROPERTY.
- 6. PROVIDE FLOOR/WALL CLEAN-OUTS AT EACH HORIZONTAL SEWER LINE AT LENGTHS OVER 100'. ENSURE ADEQUATE ACCESS TO CLEAN-OUT.

LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
●	POC/POD	POINT OF CONNECTION / POINT OF DISCONNECTION
---	S	SANITARY OR WASTE PIPING
---	GW	GREASE WASTE PIPING
---	V	SANITARY VENT PIPING
---	CWS	DOMESTIC COLD WATER SUPPLY PIPING
---	HWS	DOMESTIC HOT WATER SUPPLY PIPING
---	HWR	DOMESTIC HOT WATER RETURN PIPING
○		PIPE UP
⊥		PIPE BRANCH - TOP CONNECTION
⊥		PIPE BRANCH - BOTTOM CONNECTION
⊥		PIPE BRANCH - SIDE CONNECTION
⊥		PIPE CAP
⊥		PIPE SLEEVE
→		DIRECTION OF FLOW
↘		PIPE SLOPE & DIRECTION OF FALL
⊥		PIPE BREAK
⊥	WCO	WALL CLEANOUT
⊥	FOC/COTG	FLOOR CLEANOUT OR CLEANOUT TO GRADE
⊥	FD	FLOOR DRAIN
⊥	SOV (I.V.)	SHUT OFF VALVE (ISOLATION VALVE), PLAN / RISER
⊥	PRV	PRESSURE REDUCING VALVE
⊥		GAS VALVE / PLUG COCK
⊥		PRESSURE GAUGE
⊥	SGV	SEISMIC GAS SHUT-OFF VALVE
⊥	CP	CIRCULATION PUMP
⊥	MV	MIXING VALVE
⊥	PV	PURGE VALVE
⊥	BV	BALL VALVE
⊥	CV	CHECK VALVE
⊥	DCVA	DOUBLE CHECK VALVE ASSEMBLY
⊥	PG	PRESSURE GAUGE
⊥		PIPE UNION
⊥	HB	HOSE BIBB
⊥	AFF	ABOVE FINISHED FLOOR
⊥	AFG	ABOVE FINISHED GRADE
⊥	ARCH	ARCHITECT OR ARCHITECTURAL
⊥	BIG	BELOW GRADE
⊥	CCO	CEILING CLEAN OUT
DWG/DWGS		DRAWING/DRAWINGS
DN		DOWN
FT		FEET
FT & FV		FLUSH VALVE & FLUSH TANK
GPM		GALLONS PER MINUTE
HP		HORSE POWER
IPS		IRON PIPE SIZE
IE		INVERT ELEVATION
MAX		MAXIMUM
(N) / (E)		NEW / EXISTING
NTS		NOT TO SCALE
PD		PRESSURE DROP
PSI		POUNDS PER SQUARE INCH
P&TRV		PRESSURE AND TEMPERATURE RELIEF VALVE
QTY		QUANTITY
SOV		SHUT OFF VALVE
TMV		THERMOSTATIC MIXING VALVE



**2 PLUMBING SANITARY SEWER LAYOUT - LOWER FLOOR**

Scale: 1/4" = 1' 0"



**3 PLUMBING SANITARY SEWER LAYOUT - UPPER FLOOR**

Scale: 1/4" = 1' 0"

Revisions		
#	Note	Date
		10/20/22

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 Date: 10/20/22  
 Scale: ViewportScale





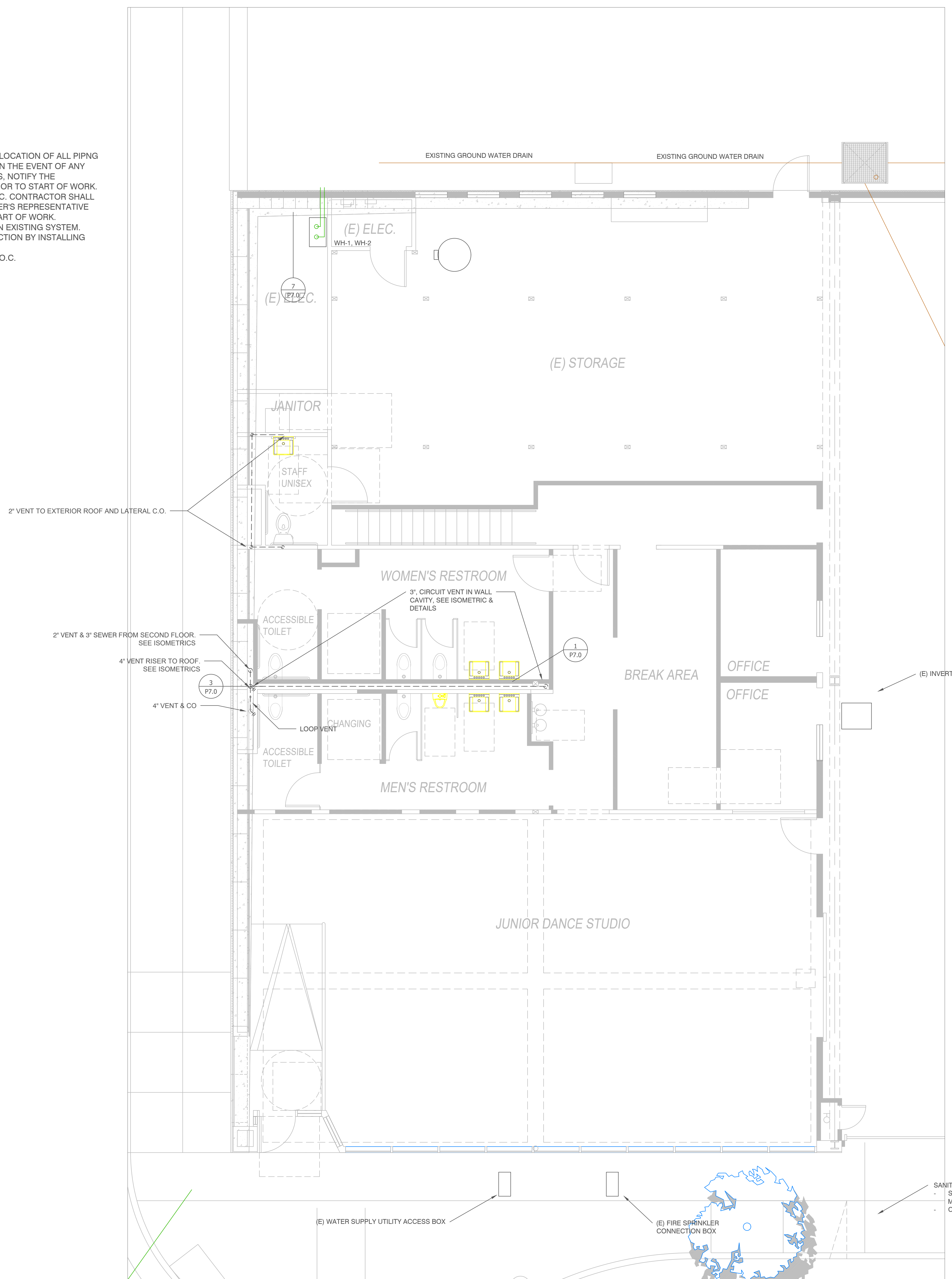
**OWNER IMPROVEMENT**  
301 N PETALUMA BLVD PETALUMA CA

**General Notes:**

- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND DESIGNER IN WRITING PRIOR TO START OF WORK.
- B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- C. NEW WASTE WATER COMPONENTS TO JOIN EXISTING SYSTEM. EXISTING SYSTEM TO BE VERIFIED AS FUNCTION BY INSTALLING CONTRACTOR.
- D. FLOOR AREA TO BE REMOVED FOR NEW P.O.C.
- E.

**Key Notes: #**

1.



LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
●	POC/POD	POINT OF CONNECTION / POINT OF DISCONNECTION
---	S	SANITARY OR WASTE PIPING
---	GW	GREASE WASTE PIPING
---	V	SANITARY VENT PIPING
---	CWS	DOMESTIC COLD WATER SUPPLY PIPING
---	HWS	DOMESTIC HOT WATER SUPPLY PIPING
---	HWR	DOMESTIC HOT WATER RETURN PIPING
↑		PIPE UP
↓		PIPE DOWN
┌		PIPE BRANCH - TOP CONNECTION
└		PIPE BRANCH - BOTTOM CONNECTION
├		PIPE BRANCH - SIDE CONNECTION
—		PIPE CAP
— —		PIPE SLEEVE
→		DIRECTION OF FLOW
↘		PIPE SLOPE & DIRECTION OF FALL
— —		PIPE BREAK
— —	WCO	WALL CLEANOUT
— —	FOC/COTG	FLOOR CLEANOUT OR CLEANOUT TO GRADE
— —	FD	FLOOR DRAIN
— —	SOV (IV.)	SHUT OFF VALVE (ISOLATION VALVE), PLAN / RISER
— —	PRV	PRESSURE REDUCING VALVE
— —		GAS VALVE / PLUG COCK
— —		PRESSURE GAUGE
— —	SGV	SEISMIC GAS SHUT-OFF VALVE
— —	CP	CIRCULATION PUMP
— —	MV	MIXING VALVE
— —	PV	PURGE VALVE
— —	BV	BALL VALVE
— —	CV	CHECK VALVE
— —	DCVA	DOUBLE CHECK VALVE ASSEMBLY
— —	PG	PRESSURE GAUGE
— —		PIPE UNION
— —	HB	HOSE BIBB
— —	AFF	ABOVE FINISHED FLOOR
— —	AFG	ABOVE FINISHED GRADE
— —	ARCH	ARCHITECT OR ARCHITECTURAL
— —	BIG	BELOW GRADE
— —	CCO	CEILING CLEAN OUT
DWG/DWGS		DRAWING/DRAWINGS
DN		DOWN
FT		FEET
FT & FV		FLUSH VALVE & FLUSH TANK
GPM		GALLONS PER MINUTE
HP		HORSE POWER
IPS		IRON PIPE SIZE
I.E		INVERT ELEVATION
MAX		MAXIMUM
(N) / (E)		NEW / EXISTING
NTS		NOT TO SCALE
PD		PRESSURE DROP
PSI		POUNDS PER SQUARE INCH
P&TRV		PRESSURE AND TEMPERATURE RELIEF VALVE
QTY		QUANTITY
SOV		SHUT OFF VALVE
TMV		THERMOSTATIC MIXING VALVE

4 PLUMBING VENT LAYOUT

Scale: 1/4" = 1' 0"

SANITARY AND STORM WATER CONNECTION POINTS TO CITY UTILITY TO BE VERIFIED  
 - STORM WATER BACK-UP OCCURRING, REPORT OF DISCONNECT FROM CITY STORM WATER MANAGEMENT SYSTEM. STORM WATER DRAIN SYSTEM MUST BE CORRECTED.  
 - COMPLETE SEPARATION REQUIRED FOR SANITARY AND STORM WATER SYSTEM

Revisions		
#	Note	Date
		10/20/22

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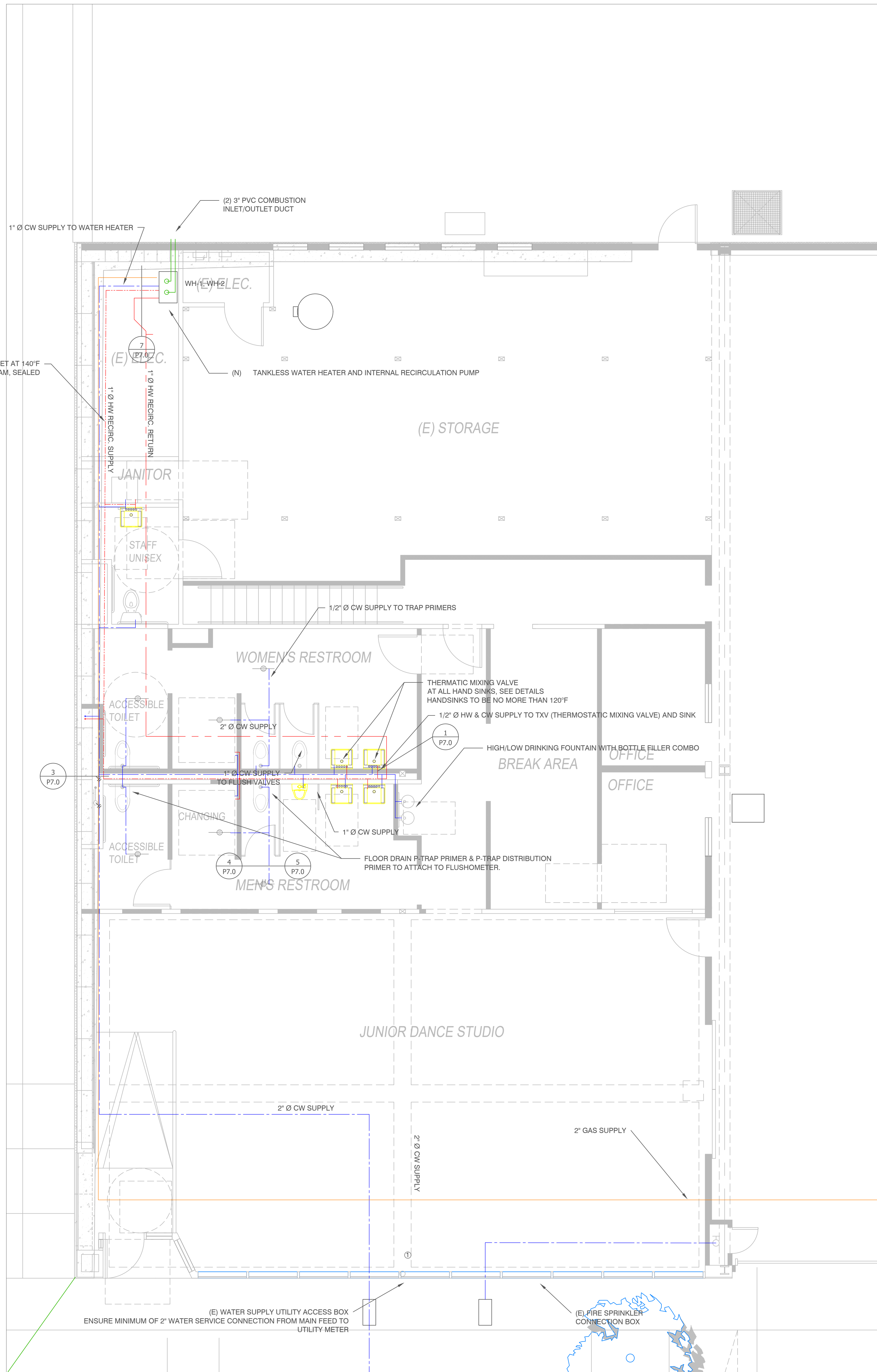


**General Notes:**

- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND DESIGNER IN WRITING PRIOR TO START OF WORK.
- B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.

**Key Notes:**

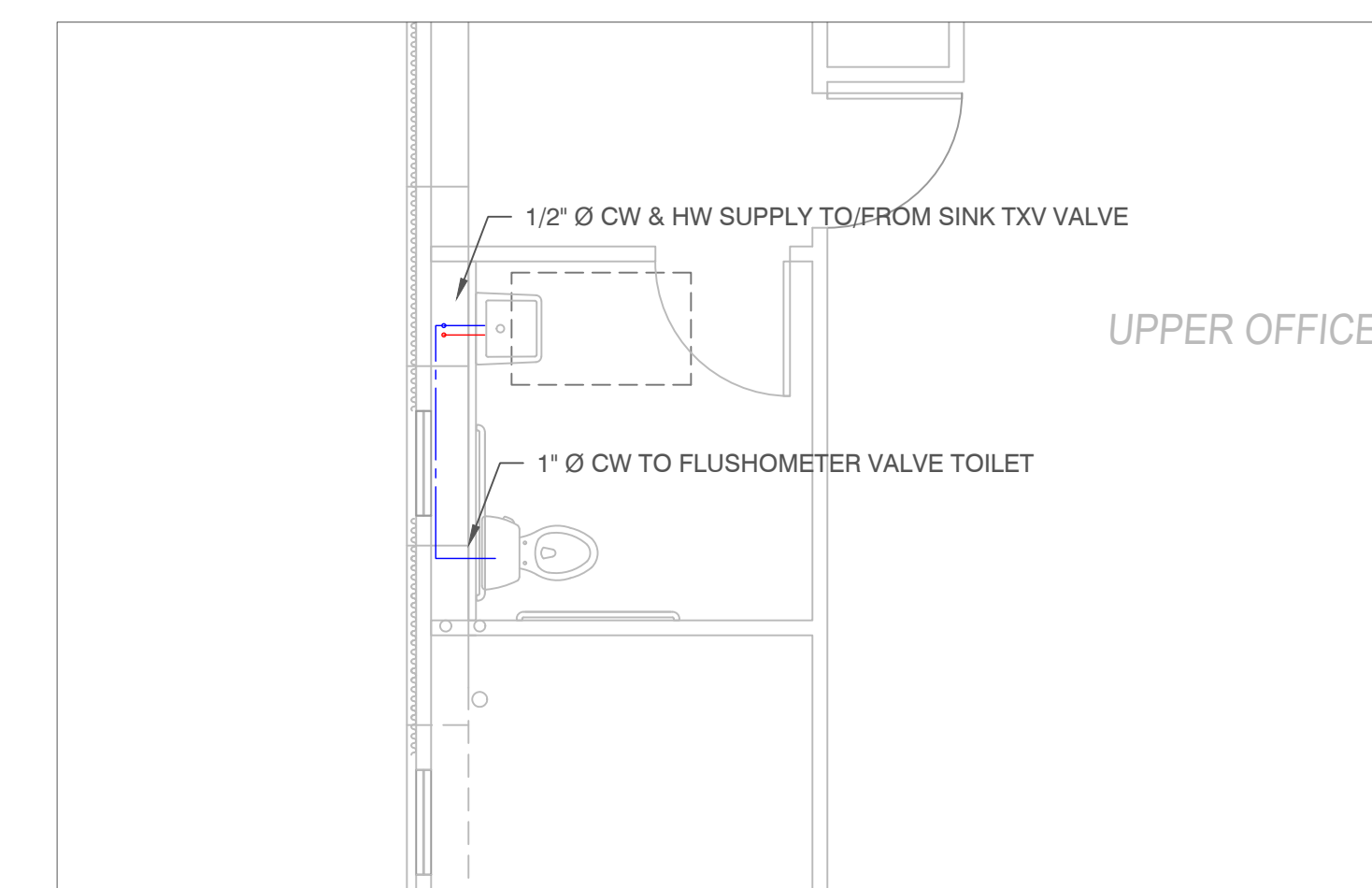
- 1. (N) 2" COLD WATER MAIN SUPPLY LINE TO BE INSTALLED TO UTILITY METER. METER MUST BE SUPPLIED WITH 2" LINE. MIN SIZE IS 2" OR GREATER TO MEET FLOW REQUIREMENTS OF FLUSHMETER WATER CLOSETS.
- 2. ALL HOT WATER PIPING TO BE INSULATED WITH 1" R-3 FOAM OR GREATER
- 3. ALL HAND SINKS TO BE PROVIDED AUTOMATIC TXV (THERMOSTATIC EXPANSION) VALVES
- 4.



5 PLUMBING COLD/HOT WATER DISTRIBUTION - LOWER FLOOR

Scale: 1/4" = 1' 0"

LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
●	POC/POD	POINT OF CONNECTION / POINT OF DISCONNECTION
---	S	SANITARY OR WASTE PIPING
---	GW	GREASE WASTE PIPING
---	V	SANITARY VENT PIPING
---	CWS	DOMESTIC COLD WATER SUPPLY PIPING
---	HWS	DOMESTIC HOT WATER SUPPLY PIPING
---	HWR	DOMESTIC HOT WATER RETURN PIPING
○		PIPE DOWN
○		PIPE UP
┌		PIPE BRANCH - TOP CONNECTION
└		PIPE BRANCH - BOTTOM CONNECTION
├		PIPE BRANCH - SIDE CONNECTION
—		PIPE CAP
—		PIPE SLEEVE
→		DIRECTION OF FLOW
↘		PIPE SLOPE & DIRECTION OF FALL
—		PIPE BREAK
—	WCO	WALL CLEANOUT
—	FCO/COTG	FLOOR CLEANOUT OR CLEANOUT TO GRADE
—	FD	FLOOR DRAIN
—	SOV (V.)	SHUT OFF VALVE (ISOLATION VALVE), PLAN / RISER
—	PRV	PRESSURE REDUCING VALVE
—		GAS VALVE / PLUG COCK
—		PRESSURE GAUGE
—	SGV	SEISMIC GAS SHUT-OFF VALVE
—	CP	CIRCULATION PUMP
—	MV	MIXING VALVE
—	PV	PURGE VALVE
—	BV	BALL VALVE
—	CV	CHECK VALVE
—	DCVA	DOUBLE CHECK VALVE ASSEMBLY
—	PG	PRESSURE GAUGE
—		PIPE UNION
—	HB	HOSE BIBB
—	AFF	ABOVE FINISHED FLOOR
—	AFG	ABOVE FINISHED GRADE
—	ARCH	ARCHITECT OR ARCHITECTURAL
—	B/G	BELOW GRADE
—	CCO	CEILING CLEAN OUT
—	DWG/DWGS	DRAWING/DRAWINGS
—	DN	DOWN
—	FT	FEET
—	FT & FV	FLUSH VALVE & FLUSH TANK
—	GPM	GALLONS PER MINUTE
—	HP	HORSE POWER
—	IPS	IRON PIPE SIZE
—	I.E	INVERT ELEVATION
—	MAX	MAXIMUM
—	(N) / (E)	NEW / EXISTING
—	NTS	NOT TO SCALE
—	PD	PRESSURE DROP
—	PSI	POUNDS PER SQUARE INCH
—	P&TRV	PRESSURE AND TEMPERATURE RELIEF VALVE
—	QTY	QUANTITY
—	SOV	SHUT OFF VALVE
—	TMV	THERMOSTATIC MIXING VALVE



6 PLUMBING COLD/HOT WATER DISTRIBUTION - UPPER FLOOR

Scale: 1/4" = 1' 0"

Revisions		
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**General Notes:**

- A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.
- B. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.
- C. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
- D. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.
- E. CIRCUIT EXTERIOR FIXTURES VIA TIME CLOCK.

**Key Notes: #**

- 1. INSTALL DIMMING SWITCHES AND VACANCY SENSORS WHERE INDICATED.
- 2. PROVIDE DIMMING ROOM CONTROLLER AND LED DRIVER FOR SWITCH LEGS INDICATED. MOUNT ABOVE ACCESSIBLE CEILING.
- 3. PRIMARY DAYLIGHT ZONE. LIGHTING IN THIS ZONE SHALL DIM DOWN FIRST. REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR MORE INFORMATION.
- 4. SECONDARY DAYLIGHT ZONE. LIGHTING IN THIS ZONE SHALL DIM DOWN SECOND. REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR MORE INFORMATION.
- 5. PROVIDE ASTRONOMIC TIME CLOCK. CIRCUIT ALL EXTERIOR LIGHT FIXTURES VIA TIME CLOCK.
- 6. RECEPTACLES IN WET AREAS (RESTROOMS, WATER HEATER, STORAGE) TO BE GFCI TYPE.
- 7. INTERNET/DATAPHONE TO BE DONE OVER CAT 6 CABLES AND PORTS. COORDINATE WITH LOW VOLTAGE/AUDIO-VISUAL CONTRACTOR FOR SYSTEM INSTALLATION.

Tags: ABC



**ELECTRIC LEGEND**

**CONDUIT/WIRING:**

- CIRCUIT - WIRING
- CONDUIT - NEW
- CONDUIT - EXISTING
- CONDUIT - UNDERGROUND
- CONDUIT - HOME RUN TO PANEL, TERMINAL, CABINET, SIZE ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20A/P BRANCH CIRCUITS TO BE #12AWG WITH #12AWG NEUTRALS. RUN MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT.
- CONDUIT - CAPPED
- CONDUIT - STUB UP
- CONDUIT - STUB DOWN
- CONDUIT - CONTINUATION
- GROUND ROD

**CONTROLS:**

- SWITCH - SINGLE CONTROL
- SWITCH - 3-WAY CONTROL
- SWITCH - MOTOR RATED
- SWITCH - DIMMER CONTROL
- SWITCH - VACANCY CONTROL
- SWITCH - VACANCY (TIME DELAY)
- SENSOR - PHOTOCELL
- SENSOR - OCCUPANCY
- CONTROL - ASTRONOMIC TIME CLOCK

**DEVICES:**

- TRANSFORMER
- JUNCTION BOX - WALL MOUNTED
- JUNCTION BOX - FLOOR MOUNTED
- JUNCTION BOX - CEILING MOUNTED

**RECEPTACLES:**

- RECEPTACLE - SIMPLEX
- RECEPTACLE - DUPLEX
- RECEPTACLE - QUADRUPLEX
- RECEPTACLE - GFCI DUPLEX
- RECEPTACLE - GFCI QUADRUPLEX

**LIGHTING:**

- LIGHTING FIXTURE - RECESSED LED
- LIGHTING FIXTURE - RECESSED FLUORESCENT
- LIGHTING FIXTURE - CHANDELIER LED
- LIGHTING FIXTURE - BAY TYPE (UFO)
- LIGHTING FIXTURE - WALL PENDANT/SCENCE
- LIGHTING FIXTURE - TRACK/CEILING PENDANT

1 FIRST FLOOR LIGHTING RCP & ELECTRICAL PLAN

Scale: 1/4" = 1' 0"

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Revisions		
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Electrical Plan  
First Floor 1/2  
**E5.0**

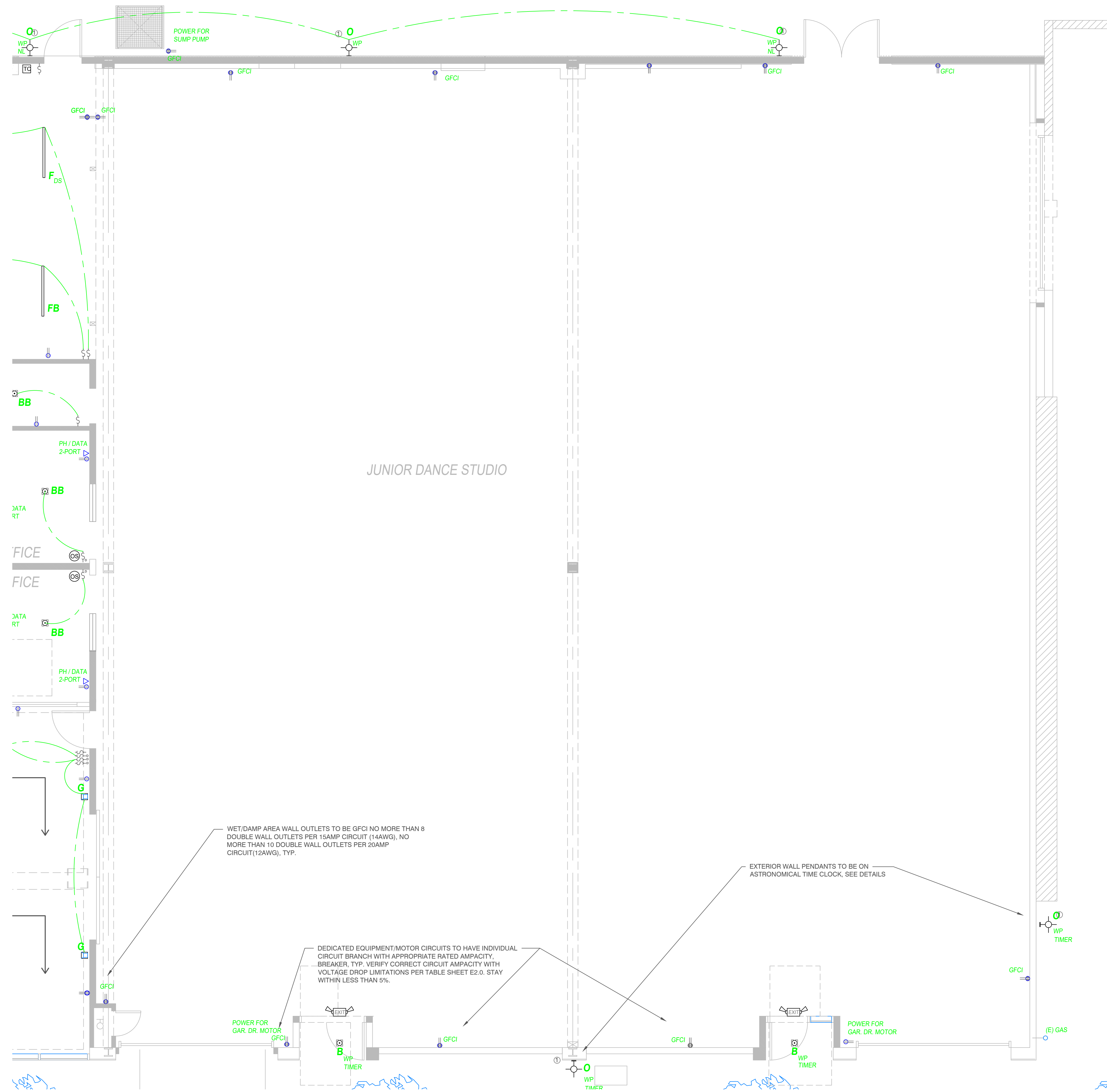


**General Notes:**

- A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.
- B. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.
- C. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
- D. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.
- E. CIRCUIT EXTERIOR FIXTURES VIA TIME CLOCK.

**Key Notes: #**

- 1. PROVIDE ASTRONOMIC TIME CLOCK. CIRCUIT ALL EXTERIOR LIGHT FIXTURES VIA TIME CLOCK.



1 FIRST FLOOR ELECTRICAL/LIGHTING RCP - WAREHOUSE

Scale: 1/4" = 1' 0"

**ELECTRIC LEGEND**

**CONDUIT/WIRING:**

- CIRCUIT - WIRING
- CONDUIT - NEW
- CONDUIT - EXISTING
- CONDUIT - UNDERGROUND
- CONDUIT - HOME RUN TO PANEL, TERMINAL, CABINET, SIZE ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20AMP BRANCH CIRCUITS TO BE #12AWG WITH #12AWG NEUTRALS. RUN MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT.
- CONDUIT - CAPPED
- CONDUIT - STUB UP
- CONDUIT - STUB DOWN
- CONDUIT - CONTINUATION
- GROUND ROD

**CONTROLS:**

- SWITCH - SINGLE CONTROL
- SWITCH - 3-WAY CONTROL
- SWITCH - MOTOR RATED
- SWITCH - DIMMER CONTROL
- SWITCH - VACANCY CONTROL
- SWITCH - VACANCY (TIME DELAY)
- SENSOR - PHOTOCELL
- SENSOR - OCCUPANCY
- CONTROL - ASTRONOMIC TIME CLOCK

**DEVICES:**

- TRANSFORMER
- JUNCTION BOX - WALL MOUNTED
- JUNCTION BOX - FLOOR MOUNTED
- JUNCTION BOX - CEILING MOUNTED

**RECEPTACLES:**

- RECEPTACLE - SIMPLEX
- RECEPTACLE - DUPLEX
- RECEPTACLE - QUADRUPLEX
- RECEPTACLE - GFCI DUPLEX
- RECEPTACLE - GFCI QUADRUPLEX

**LIGHTING:**

- LIGHTING FIXTURE - RECESSED LED
- LIGHTING FIXTURE - RECESSED FLUORESCENT
- LIGHTING FIXTURE - CHANDELIER LED
- LIGHTING FIXTURE - BAY TYPE (UFO)
- LIGHTING FIXTURE - WALL PENDANT/SCONCE
- LIGHTING FIXTURE - TRACK/CEILING PENDANT

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Revisions		
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Electrical Plan  
First Floor 2/2  
**E6.0**

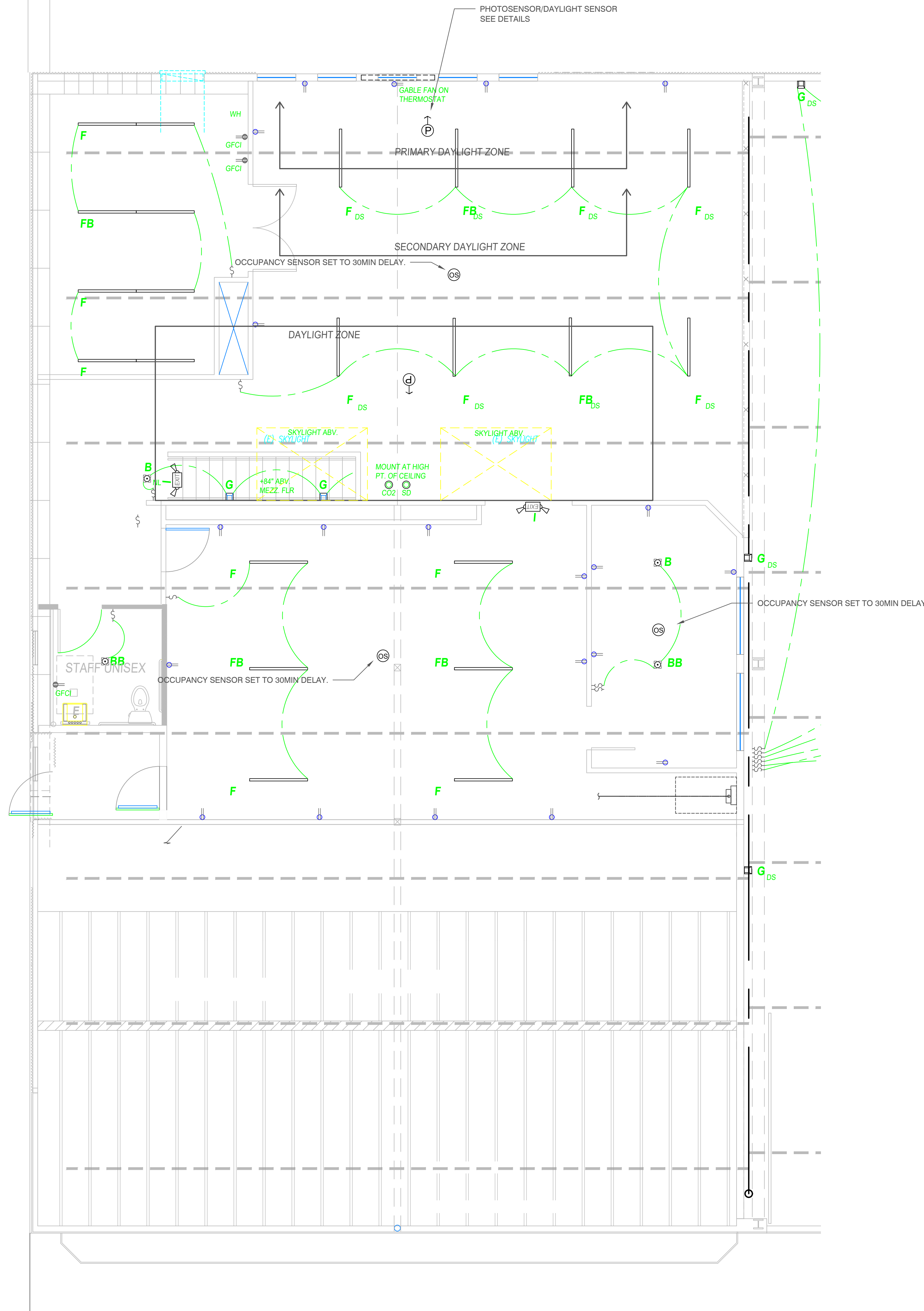


**General Notes:**

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- C. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
- D. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.
- E. CIRCUIT ALL LIGHT FIXTURES ON THIS SHEET TO PANELBOARD L, UNLESS OTHERWISE NOTED.
- F. SEE DRAWING E800 FOR LIGHT FIXTURE MOUNTING DETAILS.
- G. CIRCUIT EXTERIOR FIXTURES VIA TIME CLOCK.

**Key Notes: #**

- 1. PROVIDE DIMMING ROOM CONTROLLER FOR SWITCH LEGS INDICATED. MOUNT ABOVE ACCESSIBLE CEILING.
- 2. PRIMARY DAYLIGHT ZONE. LIGHTING IN THIS ZONE SHALL DIM DOWN FIRST. REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR MORE INFORMATION.
- 3. SECONDARY DAYLIGHT ZONE. LIGHTING IN THIS ZONE SHALL DIM DOWN SECOND. REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR MORE INFORMATION.
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**ELECTRIC LEGEND**

**CONDUIT/WIRING:**

- CIRCUIT - WIRING
- CONDUIT - NEW
- CONDUIT - EXISTING
- CONDUIT - UNDERGROUND
- CONDUIT - HOME RUN TO PANEL, TERMINAL, CABINET, SIZE ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20A/P BRANCH CIRCUITS TO BE #12AWG WITH #12AWG NEUTRALS. RUN MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT.
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**CONTROLS:**

- SWITCH - SINGLE CONTROL
- SWITCH - 3-WAY CONTROL
- SWITCH - MOTOR RATED
- SWITCH - DIMMER CONTROL
- SWITCH - VACANCY CONTROL
- SWITCH - VACANCY (TIME DELAY)
- SENSOR - PHOTOCELL
- SENSOR - OCCUPANCY
- CONTROL - ASTRONOMICAL TIME CLOCK

**DEVICES:**

- TRANSFORMER
- JUNCTION BOX - WALL MOUNTED
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- JUNCTION BOX - CEILING MOUNTED

**RECEPTACLES:**

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Electrical Plan  
Second Floor 1/2  
**E7.0**

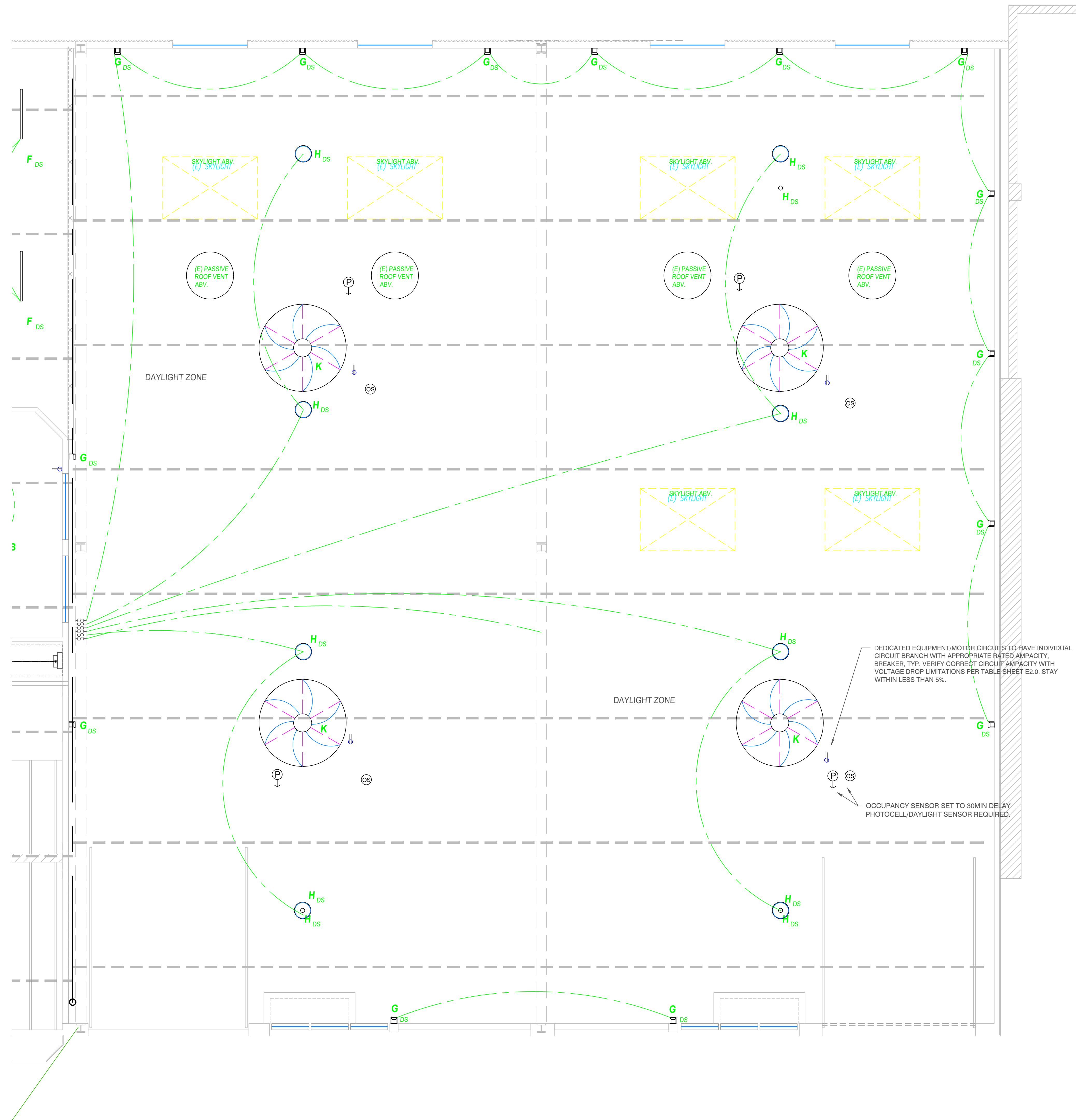


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- G. CIRCUIT EXTERIOR FIXTURES VIA TIME CLOCK.

**Key Notes: #**

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- 3. SECONDARY DAYLIGHT ZONE. LIGHTING IN THIS ZONE SHALL DIM DOWN SECOND. REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR MORE INFORMATION.
- 4. PROVIDE ASTRONOMIC TIME CLOCK. CIRCUIT ALL EXTERIOR LIGHT FIXTURES VIA TIME CLOCK.



1 SECOND FLOOR ELECTRICAL & LIGHTING PLAN

Scale: 1/4" = 1' 0"



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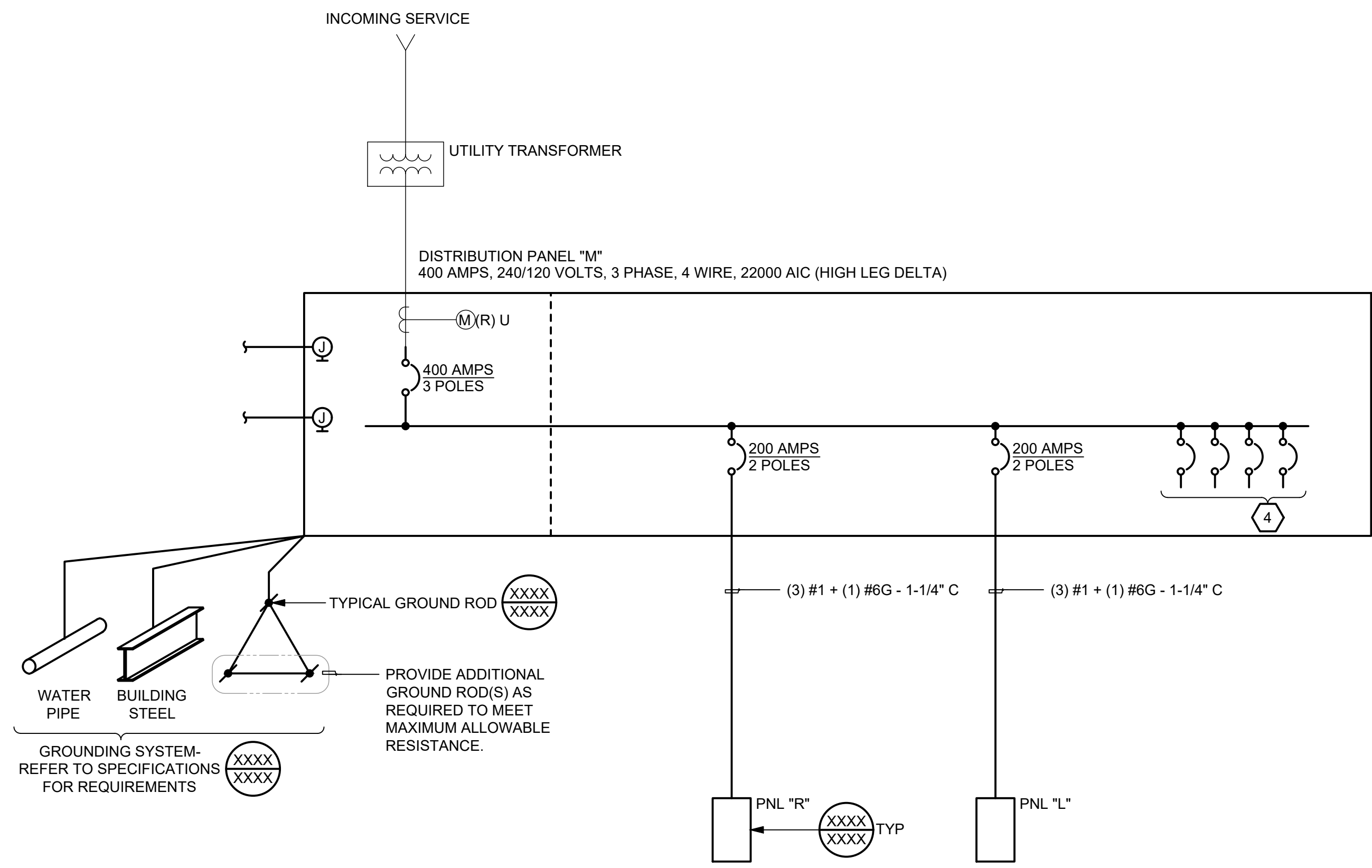
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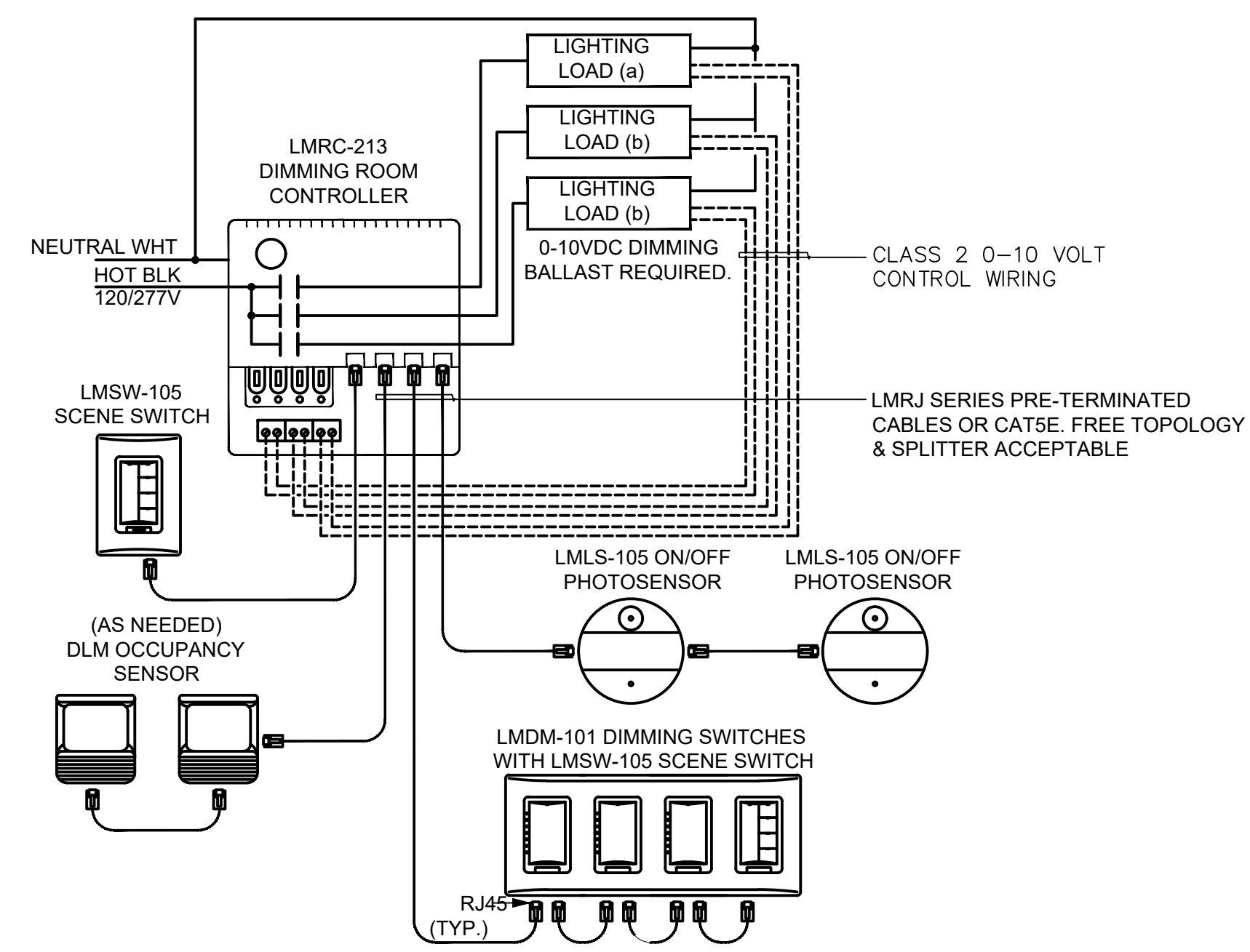
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Electrical Plan  
Second Floor 2/2  
**E8.0**

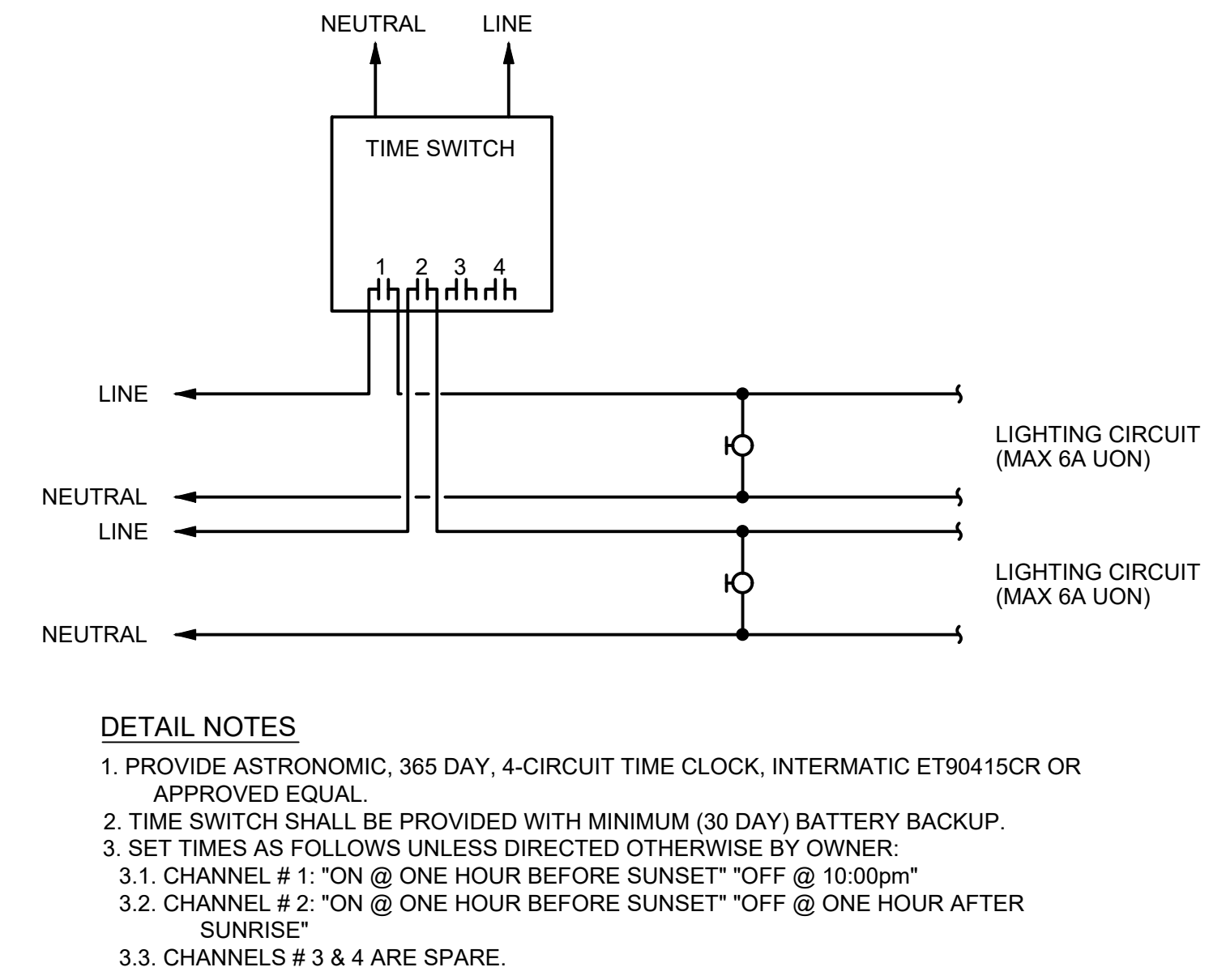




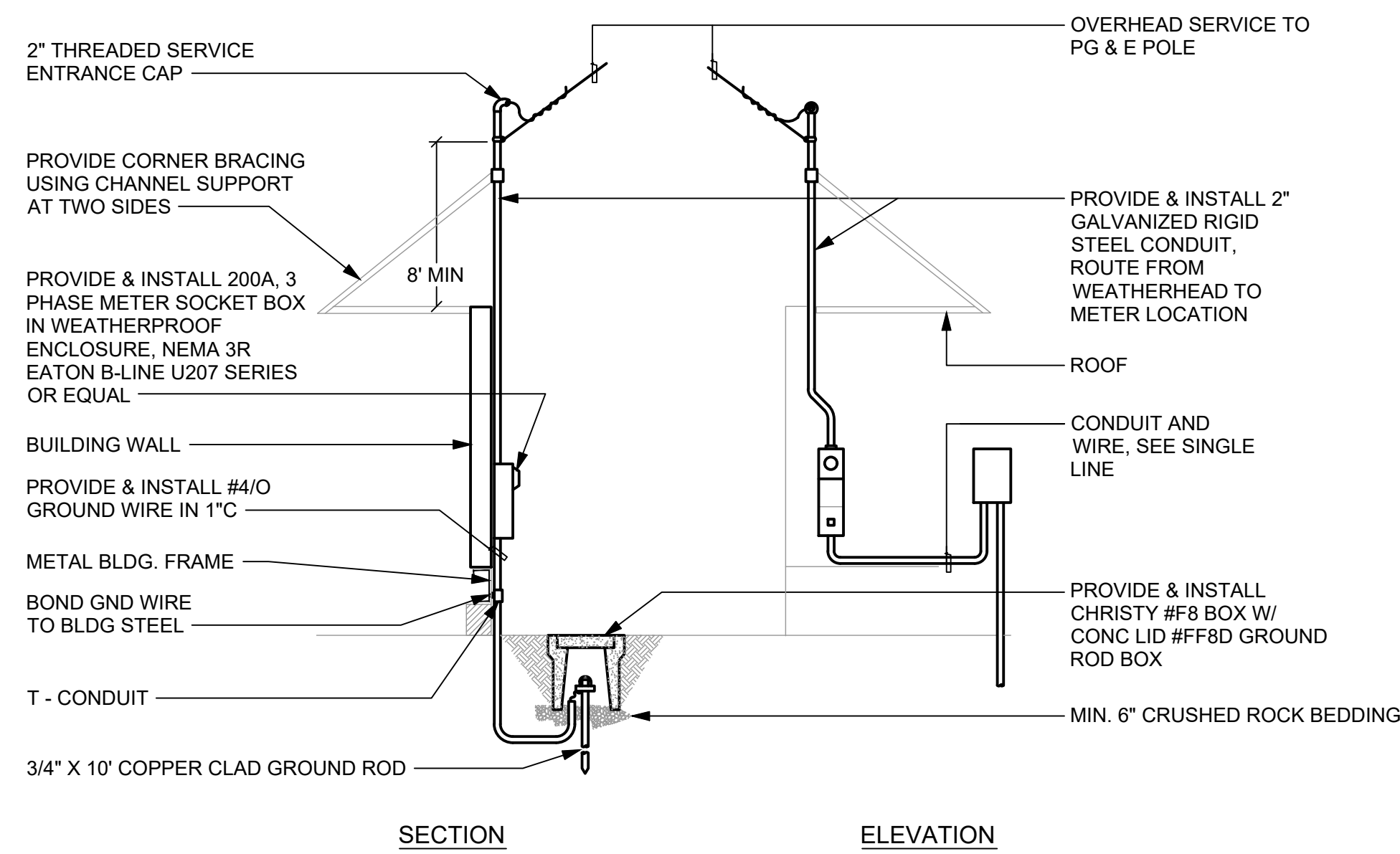
SINGLE LINE DIAGRAM SCALE NONE 1



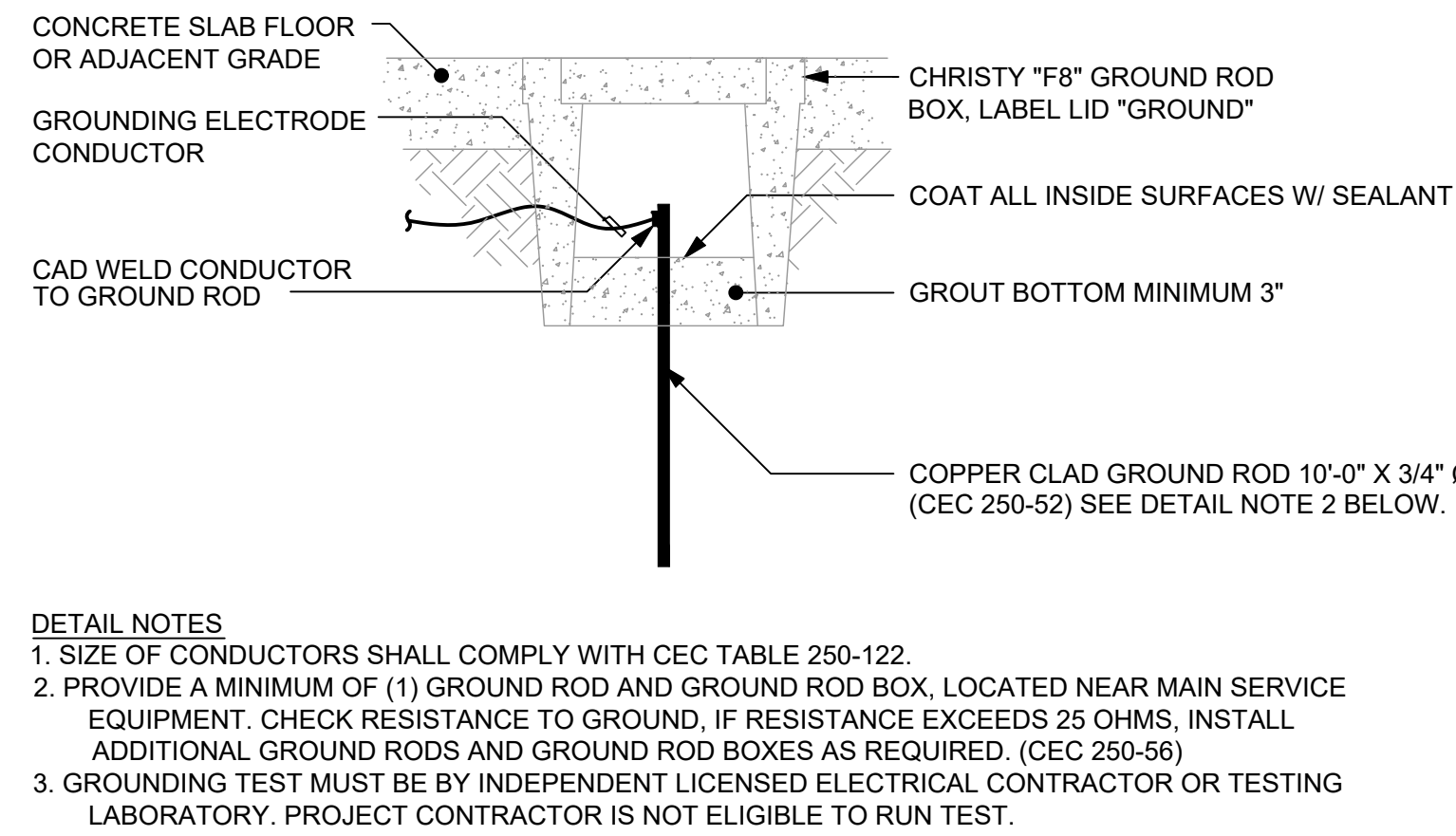
DIGITAL LIGHTING CONTROL AND DIMMING SWITCH DIAGRAM SCALE NONE 2



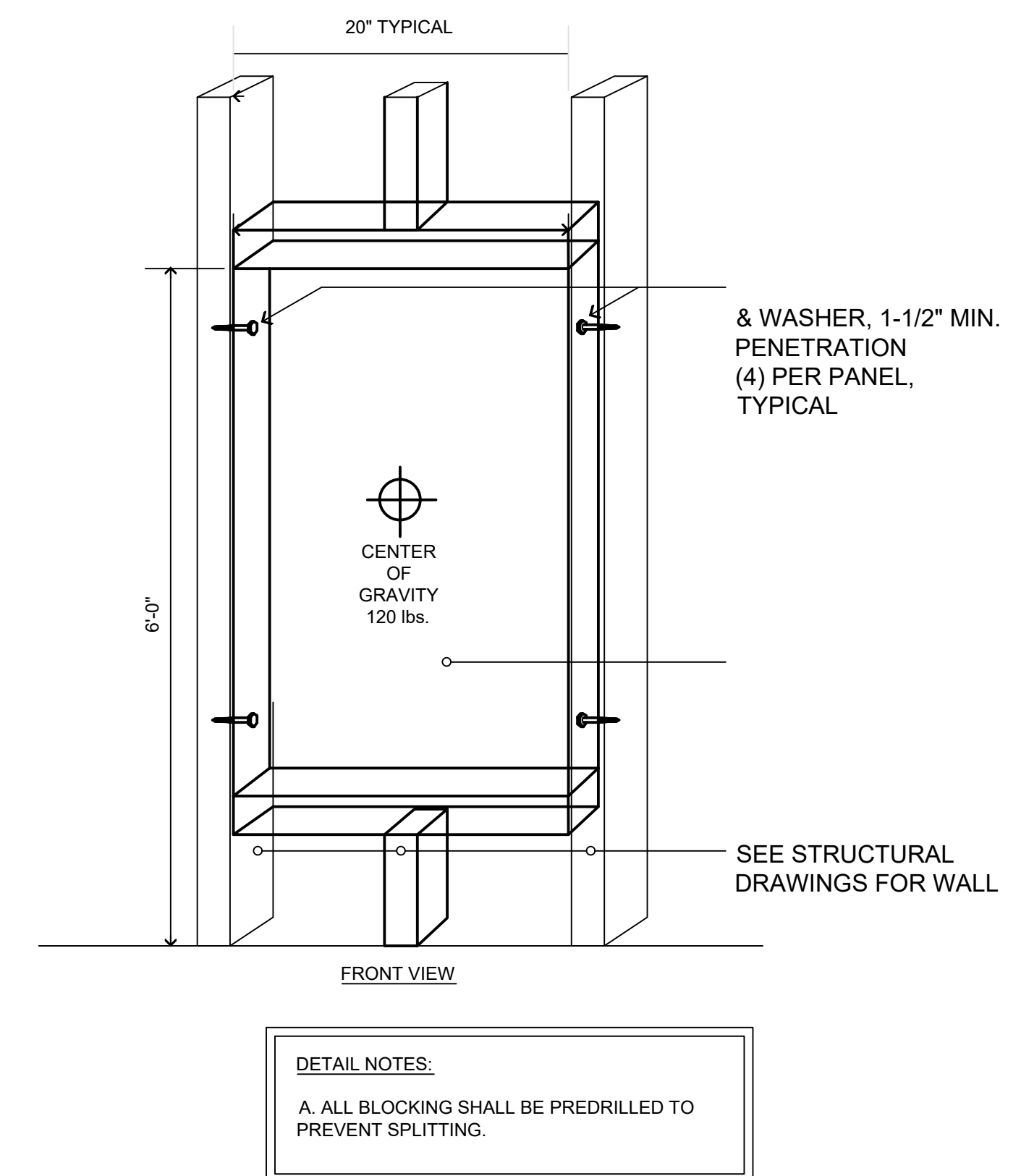
TIME SWITCH FOR 4 LINE VOLTAGE CIRCUITS SCALE NONE 3



OVERHEAD SERVICE DETAIL SCALE NONE 4

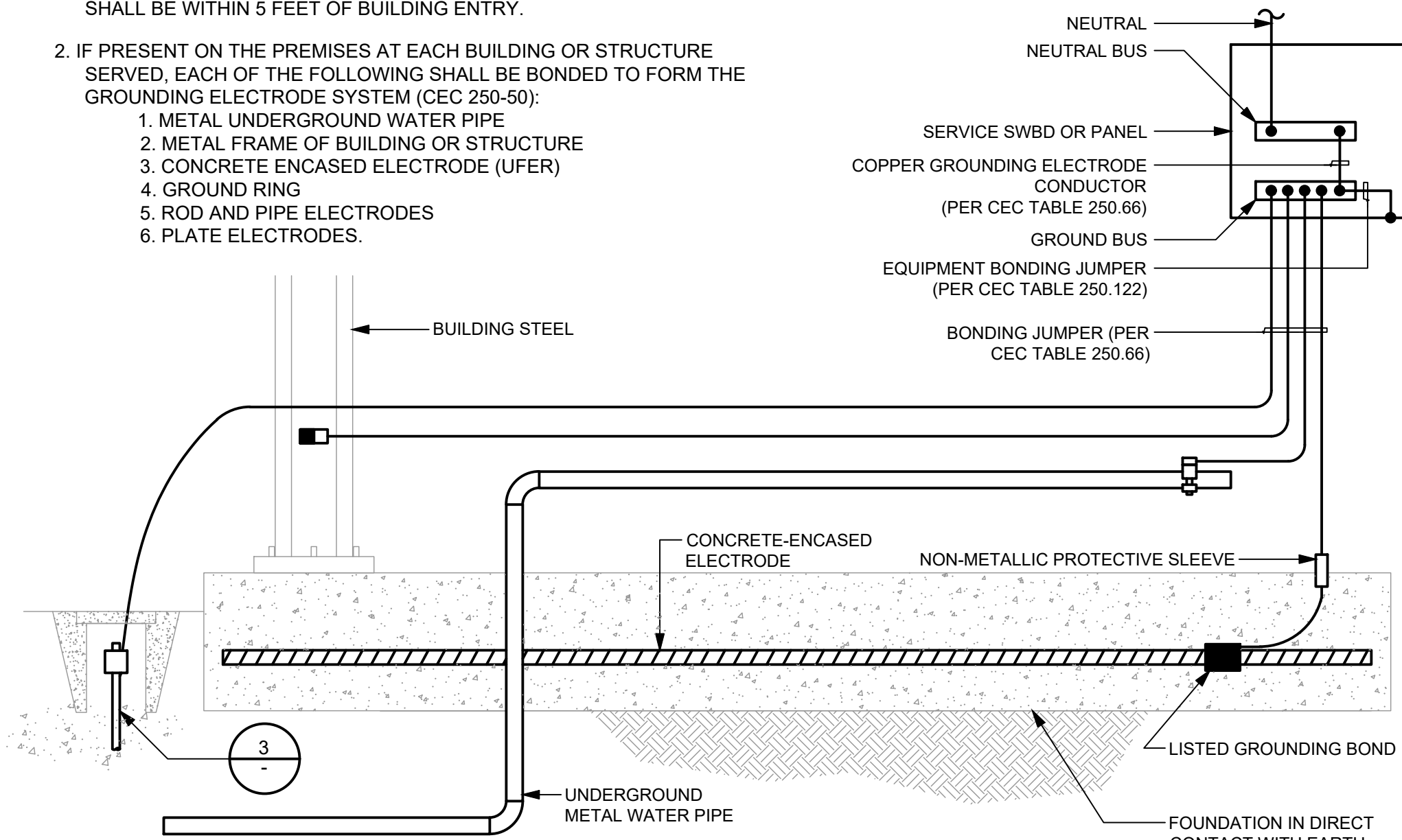


GROUND ROD DETAIL SCALE NONE 5



FLUSH PANEL MOUNTING DETAIL SCALE NONE 6

- DETAIL NOTES**
1. CONCRETE ENCASED ELECTRODE AND COPPER WATER PIPE GROUND SHALL BE WITHIN 5 FEET OF BUILDING ENTRY.
  2. IF PRESENT ON THE PREMISES AT EACH BUILDING OR STRUCTURE SERVED, EACH OF THE FOLLOWING SHALL BE BONDED TO FORM THE GROUNDING ELECTRODE SYSTEM (CEC 250-50):
    1. METAL UNDERGROUND WATER PIPE
    2. METAL FRAME OF BUILDING OR STRUCTURE
    3. CONCRETE ENCASED ELECTRODE (UFER)
    4. GROUND RING
    5. ROD AND PIPE ELECTRODES
    6. PLATE ELECTRODES.



DISTRIBUTION PANEL GROUNDING SCALE NONE 4

Revisions		
#	Note	Date
		10/20/22

Drawn by: ----  
Check by:  
Date: 10/20/22  
Scale: ViewportScale