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CIVIL ENGINEER
Alliance Engineers

323 Main Street
Park City, UT 84060

CONTACT: Michael Demkowicz E-MAIL: michael@alliance-engr.com
PHONE: 435.649.9467 INTERNET:

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STRUCTURAL ENGINEER
ARW Engineers

1594 Park Circle
Ogden, UT 84404

CONTACT: Troy Dye E-MAIL: troyd@arwengineers.com
PHONE: 801.782.6008 INTERNET: http://www.sample.com

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MECHANICAL ENGINEER
Colvin Engineering Associates

244 West 300 North, Suite 200
Salt Lake City, UT 84103

CONTACT: Bret Christiansen E-MAIL: bchristiansen@cea-ut.com
PHONE: 801.322.2400 INTERNET:

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ELECTRICAL ENGINEER
BNA Consulting

635 South State Street
Salt Lake City, UT 84111

CONTACT: Alvaro Bonilla E-MAIL: abonilla@bnaconsulting.com
PHONE: 801.532.2196 INTERNET:

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OWNER
National Ability Center

1000 Ability Way
Park City, UT 84060

CONTACT: Kevin Stickelman E-MAIL: kevins@discovermac.com
PHONE: 435.649.3991 INTERNET: http://www.discovermac.org



ARCHITECT
Architectural NEXUS, Inc.

2505 East Parleys Way
Salt Lake City, UT 84109

CONTACT: Julie Berreth E-MAIL: jberreth@archnexus.com
PHONE: 801.924.5000 INTERNET: http://www.archnexus.com



LANDSCAPE ARCHITECT
Architectural NEXUS, Inc.

2505 East Parleys Way
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CONTACT: Adam Castor E-MAIL: acastor@archnexus.com
PHONE: 801.924.5000 INTERNET: http://www.archnexus.com

NATIONAL ABILITY CENTER RECREATION CENTER

1000 Ability Way, Park City, UT 84060

VINCINITY MAP



Nexus Project #: 18065

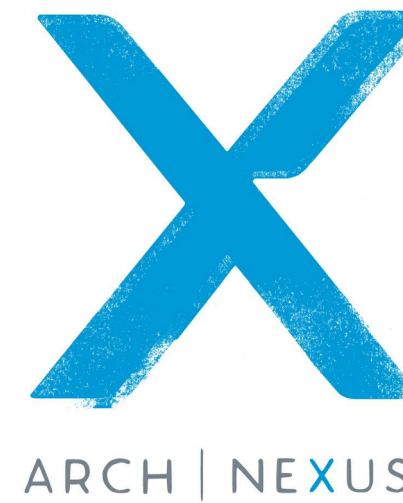
Owner Project #:

05.22.18

SCHEMATIC DESIGN

APPROVALS

Signer 1	Date	Signer 3	Date
Signer 2	Date	Signer 4	Date



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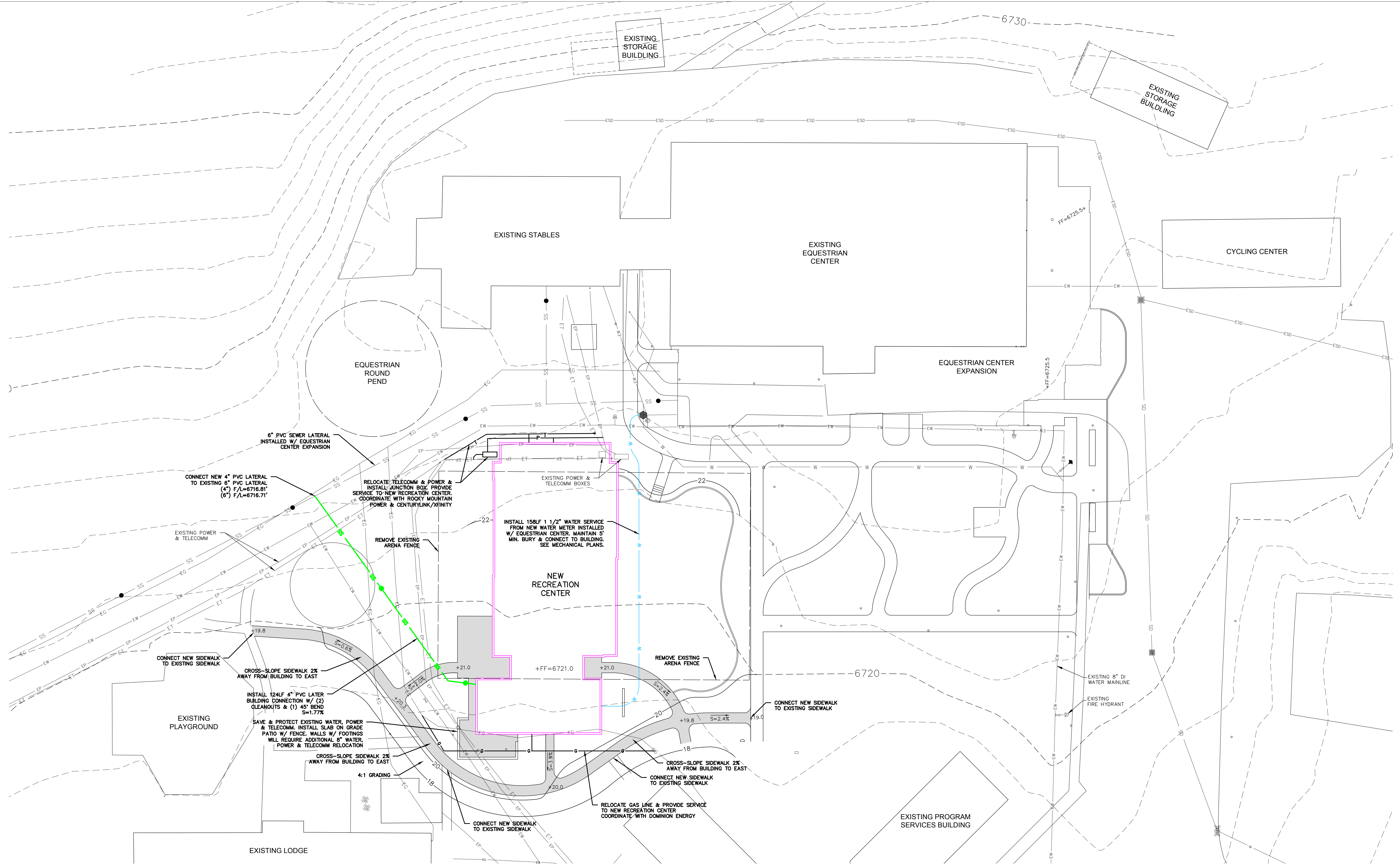
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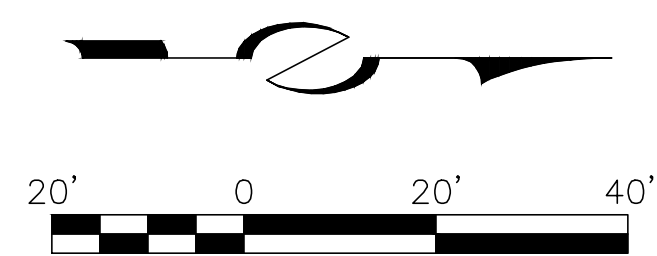
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CHECKED BY: KH
DRAWN BY: TB
DATE: 05.22.18

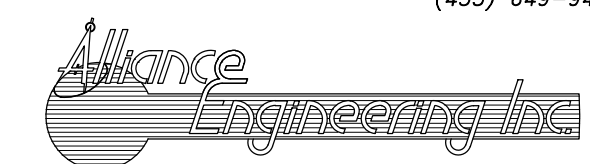
COVER SHEET

G001



LEGEND			
ESS	EXISTING SEWER	SS	PROPOSED SEWER
EW	EXISTING WATER	W	PROPOSED WATER
ESD	EXISTING STORM DRAIN	SD	PROPOSED STORM DRAIN
EG	EXISTING GAS	G	PROPOSED GAS
ET	EXISTING TELECOMM	T	PROPOSED TELECOMM
EP	EXISTING POWER	P	POWER





(435) 649-9467

CONSULTING ENGINEERS LAND PLANNERS SURVEYORS

323 Main Street P.O. Box 2664 Park City, Utah 84060-2664

STAFF:
MICHAEL DEMKOWICZ
RYAN BETZ

DATE: 5/23/18

**NATIONAL ABILITY CENTER
RECREATION CENTER
CONCEPT UTILITY & SITE DESIGN**

FOR: NAC
JOB NO.: 14-10-17
FILE: X:\QuinnsJunction\dwg\NAC\SITE PLAN-NAC-CIVIL.dwg



SITE PLAN GENERAL

NOTES:

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER.
2. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, SAW CUT AND REMOVE EXISTING PAVING AND INSTALL NEW PAVING TO MATCH EXISTING SURFACE ELEVATIONS.
3. COORDINATE ALL UTILITY CROSSING INCLUDING; STORM DRAINS, WATER, AND GAS LINES. COORDINATE DEMO WORK AND SCHEDULING WITH LANDSCAPE ARCHITECT AND CIVIL ENGINEER.
4. SEE CIVIL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR MORE INFORMATION.

Site Plan Legend

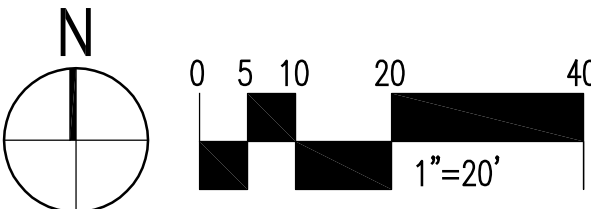
Symbol	Description
	PROPOSED CONCRETE PAVING (3,171.0 SQ.FT.)
	PROPOSED LANDSCAPE AREA – NATIVE AND WATER-WISE TREES, SHRUBS, GRASSES, AND WILDFLOWERS (6,575.0 SQ.FT.)
	PROPOSED TURFGRASS AREA (8,293.0 SQ.FT.)
	OUTDOOR ACTIVITY SPACE WITH PLAYGROUND-TYPE SURFACE (4,838.0 SQ.FT.)
	LANDSCAPE DRIP EDGE – 2”-3” DECORATIVE COBBLE ROCK WITH 4” STEEL EDGING (495.0 SQ.FT.)

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SCHEMATIC
DESIGN

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CHECKED BY: AKC
DRAWN BY: AKC
DATE: 05.22.2018
ARCHITECTURAL SITE
PLAN



AS101

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D

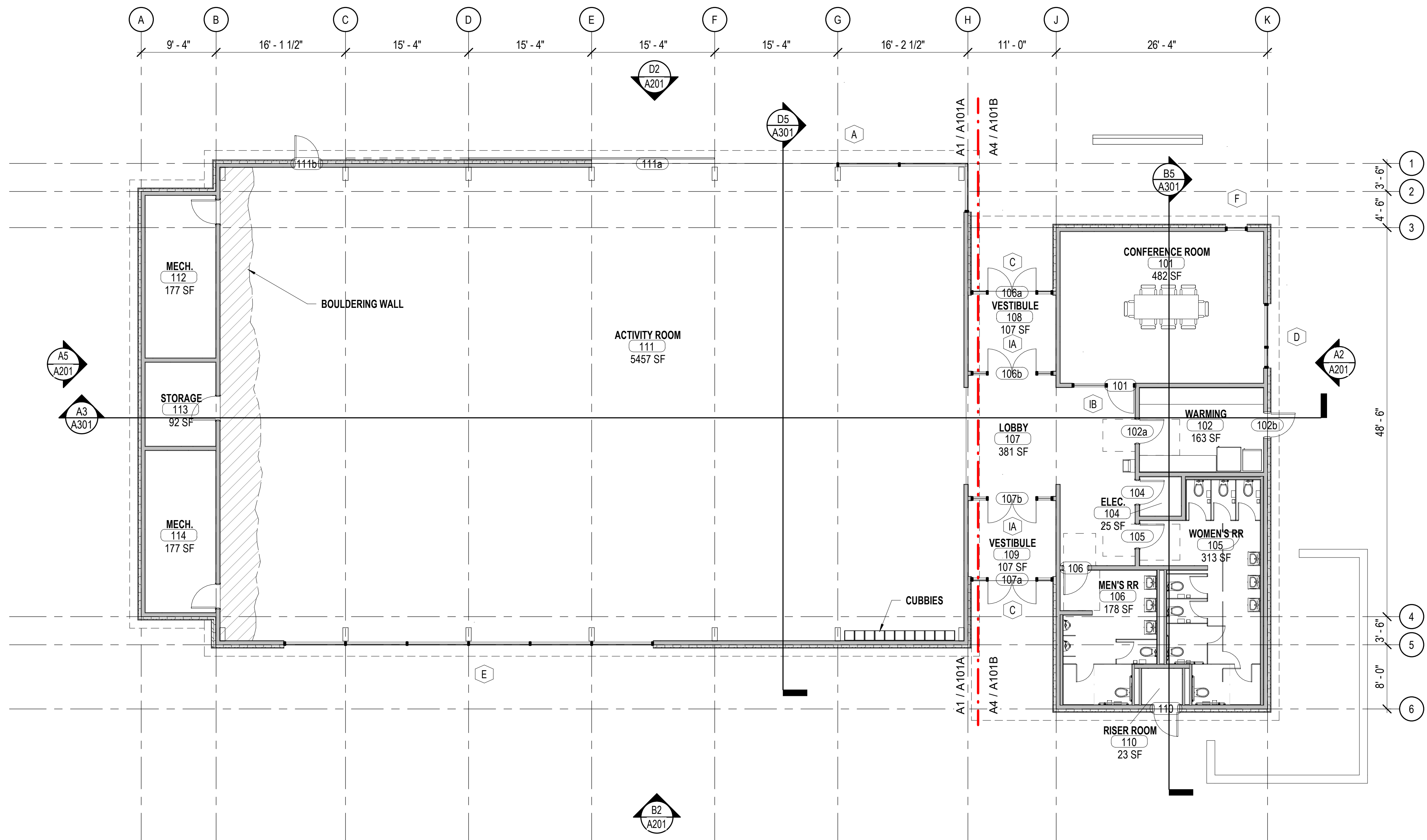
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A3 LEVEL 01 - OVERALL FLOOR PLAN
1/8" = 1'-0"



GENERAL NOTE - FLOOR PLAN

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- C. DO NOT SCALE DRAWINGS.
- D. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- F. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL XXXXXX

KEYNOTE LEGEND



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Date Revision

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NEXUS PROJ. #: 18065
CHECKED BY: Checker
DRAWN BY: TB
DATE: 05.22.18

FLOOR PLAN

A101

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
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- E. SEE G SERIES SHEETS FOR WALL TYPES AND THEORETICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- F. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL XX/XXXX.

KEYNOTE LEGEND	
01:RL1	ROOF LINE ABOVE
06:GL2	GLUED-LAMINATED STRUCTURE
08:OW1	OPERABLE WALL SYSTEM ON SLIDING DOOR HARDWARE. PROVIDE WEATHER STRIPPING ALL SIDES.
10:CB2	CUBBIES

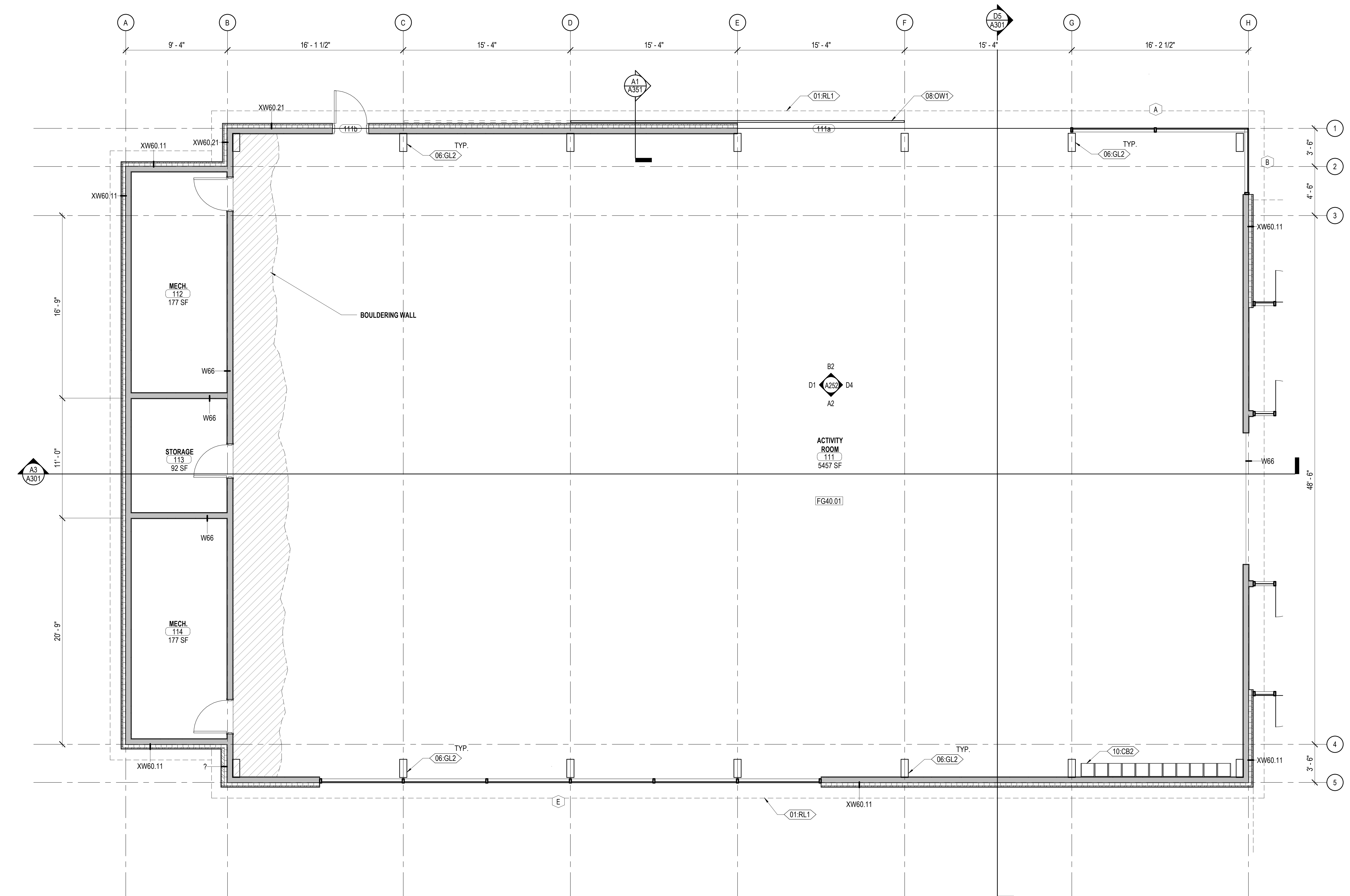
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Date	Revision

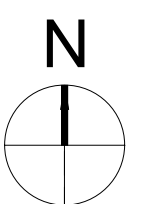
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CHECKED BY: Checker
DRAWN BY: TB
DATE: 05.22.18

FLOOR PLAN - AREA A

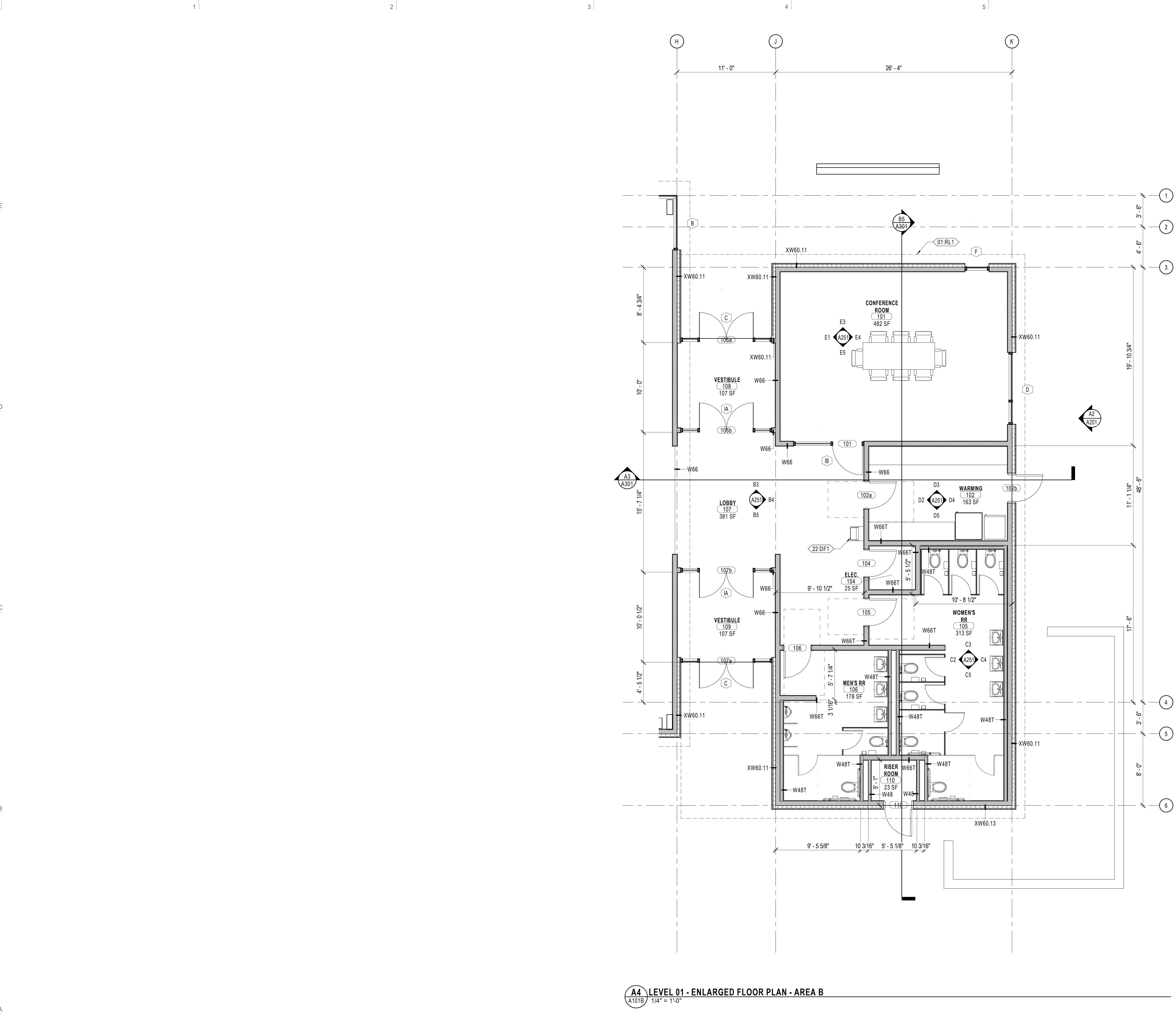
A101A



A1 LEVEL 01 - ENLARGED FLOOR PLAN - AREA A
A101A 1/4" = 1'-0"



5/21/2018 5:26:07 PM



GENERAL NOTE - ENLARGED FLOOR PLAN

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- C. DO NOT SCALE DRAWINGS.
- D. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- F. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL XX/XXXX.

KEYNOTE LEGEND	
01:RL1	ROOF LINE ABOVE
22:DF1	DRINKING FOUNTAIN, COORDINATE WITH PLUMBING



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FLOOR PLAN - AREA B

A101B

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GENERAL NOTE - ROOF PLAN
A. COORDINATE ALL PENETRATIONS OF ROOF SYSTEM WITH MECHANICAL AND ELECTRICAL DRAWINGS.

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KEYNOTE LEGEND

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E

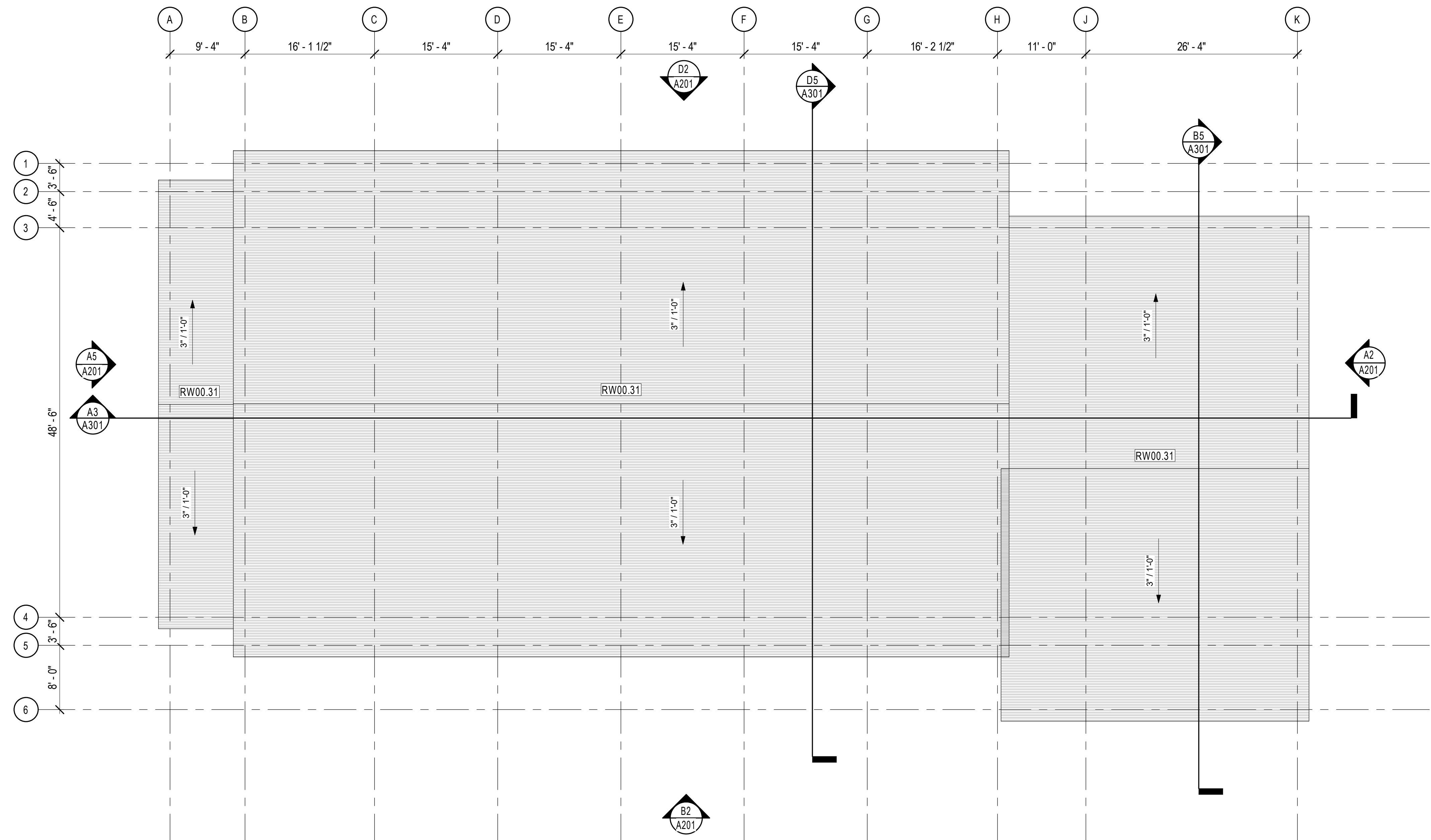
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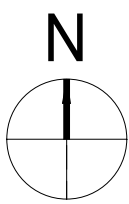
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A3 ROOF
A121 1/8" = 1'-0"



Date Revision

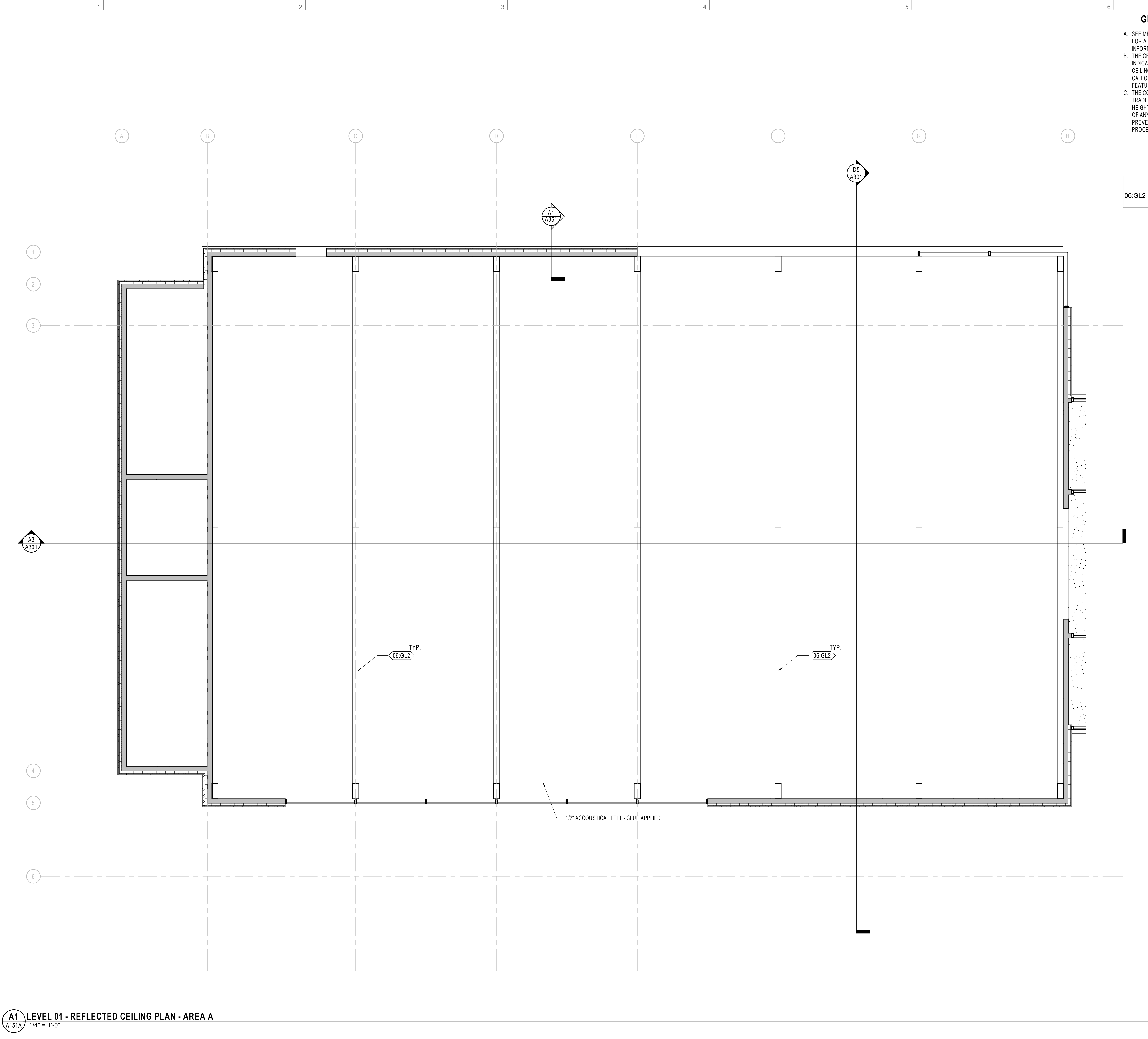
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DESIGN

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DATE: 05.22.18

ROOF PLAN

A121

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GENERAL NOTE - RCP

A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.

B. THE CEILING HEIGHT SHOWN IN THE ROOM TAG INDICATES THE HEIGHT OF THE DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHT OR FEATURES.

C. THE CONTRACTOR SHALL COORDINATE ALL TRADES TO ENSURE THAT DESIGNATED CEILING HEIGHTS CAN BE ACHIEVED. NOTIFY ARCHITECT OF ANY CONFLICTS OR CONDITIONS THAT PREVENT THIS FROM OCCURRING BEFORE PROCEEDING WITH THE WORK.

KEYNOTE LEGEND	
06.GL2	GLUED-LAMINATED STRUCTURE



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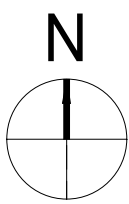
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REFLECTED CEILING PLAN - AREA A



A151A

5/21/2018 5:25:11 PM

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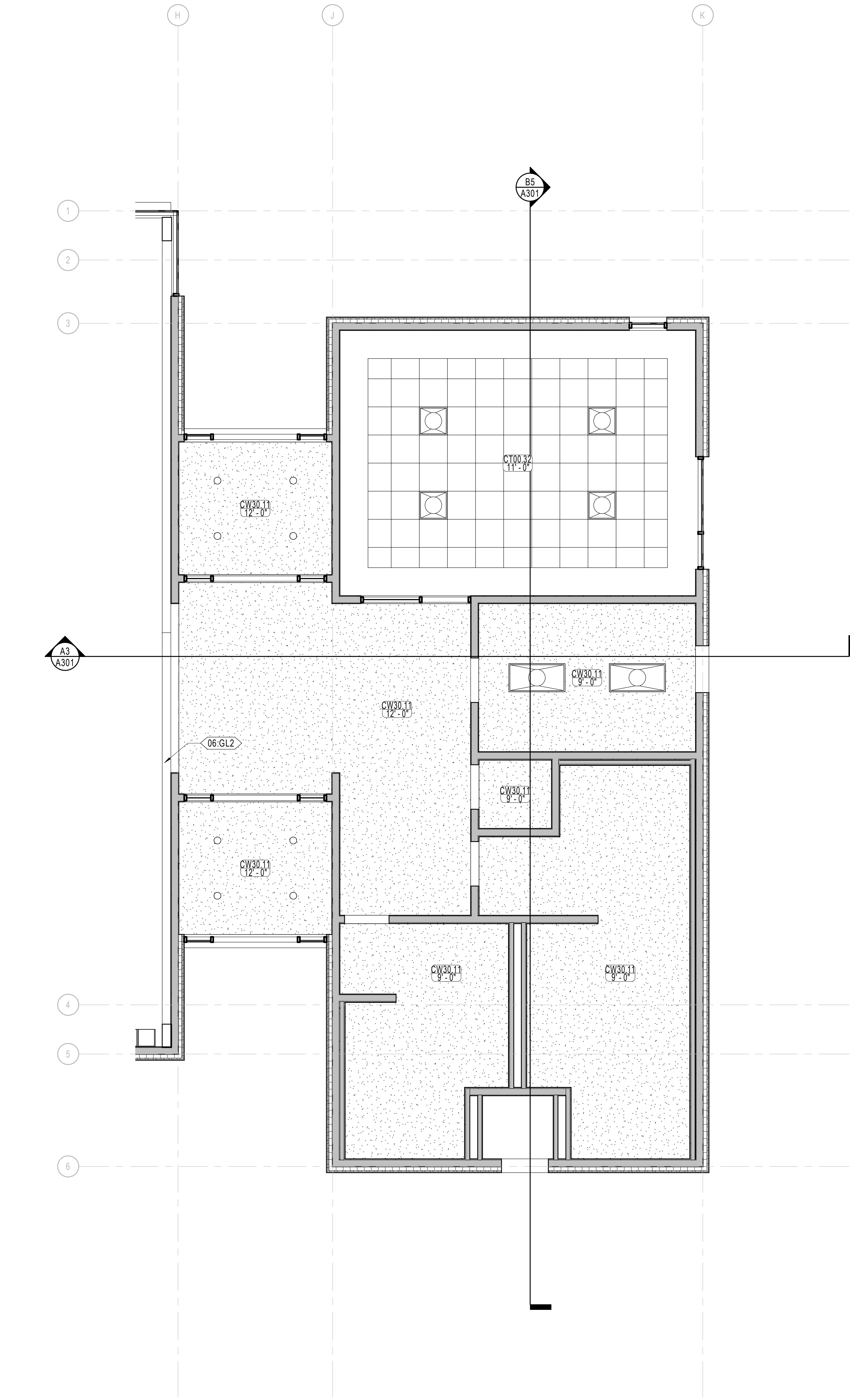
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GENERAL NOTE - RCP

- A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
- B. THE CEILING HEIGHT SHOWN IN THE ROOM TAG INDICATES THE HEIGHT OF THE DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHT OR FEATURES.
- C. THE CONTRACTOR SHALL COORDINATE ALL TRADES TO ENSURE THAT DESIGNATED CEILING HEIGHTS CAN BE ACHIEVED. NOTIFY ARCHITECT OF ANY CONFLICTS OR CONDITIONS THAT PREVENT THIS FROM OCCURRING BEFORE PROCEEDING WITH THE WORK.

KEYNOTE LEGEND	
06:GL2	GLUED-LAMINATED STRUCTURE



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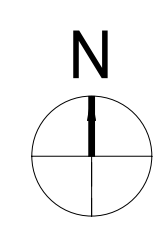
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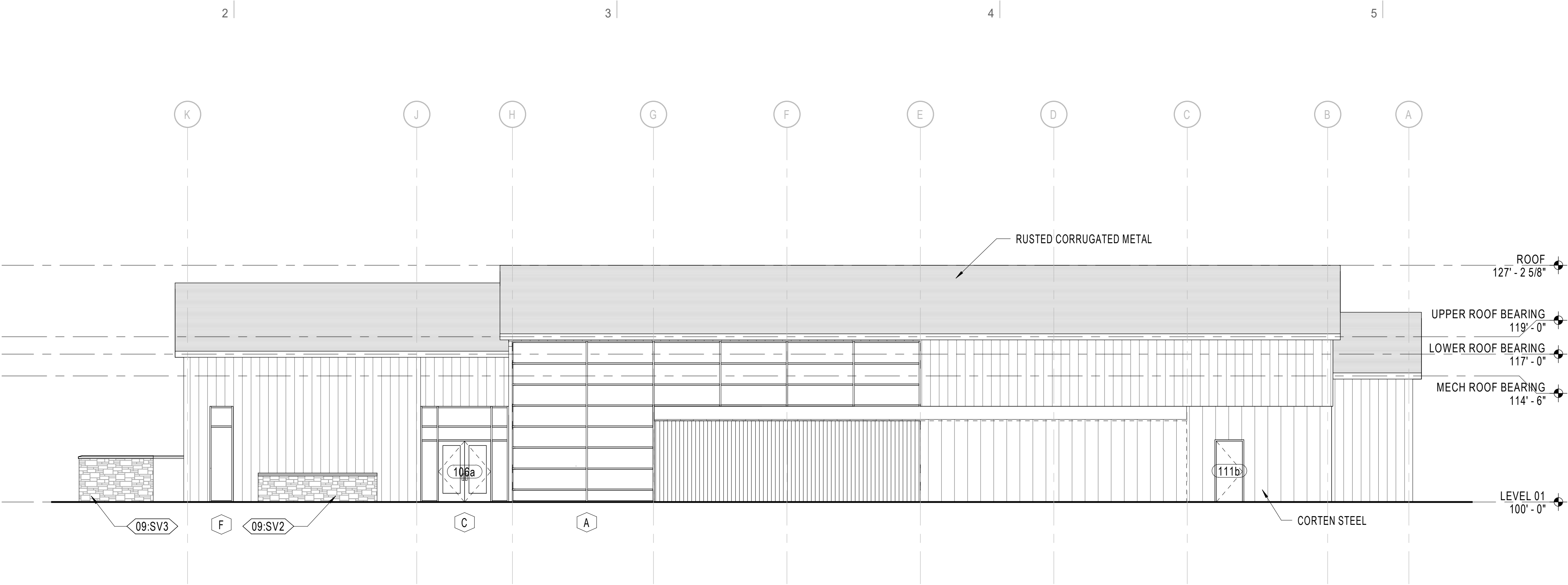
REFLECTED CEILING PLAN - AREA B

A4 LEVEL 01 - REFLECTED CEILING PLAN - AREA B
A151B 1/4" = 1'-0"

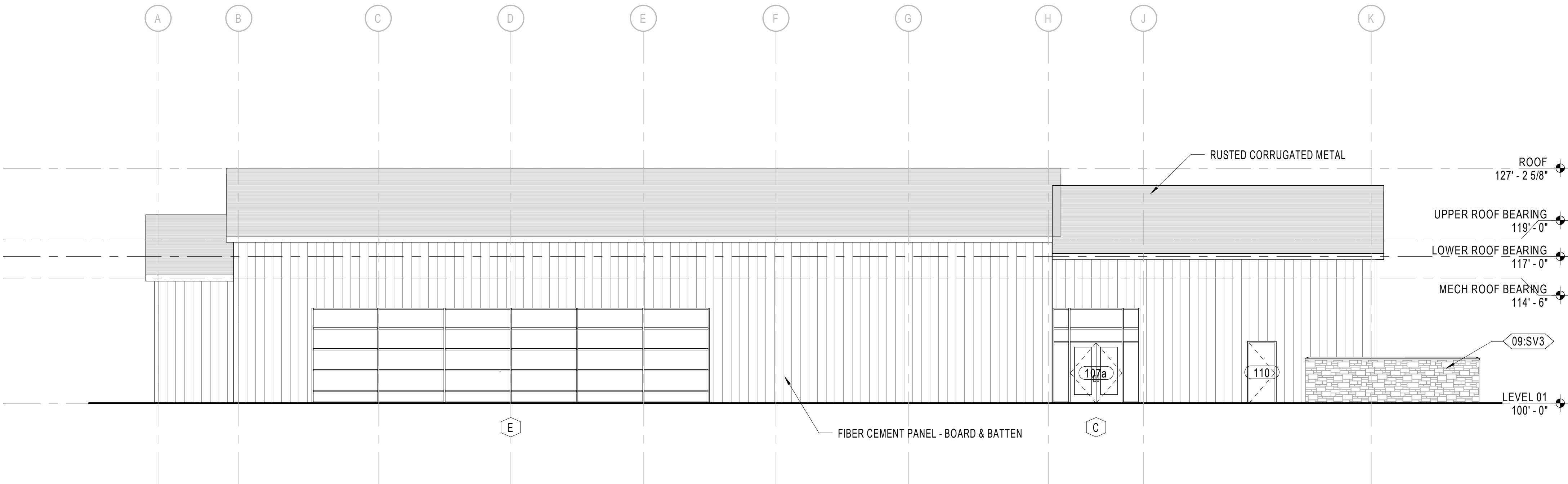


A151B

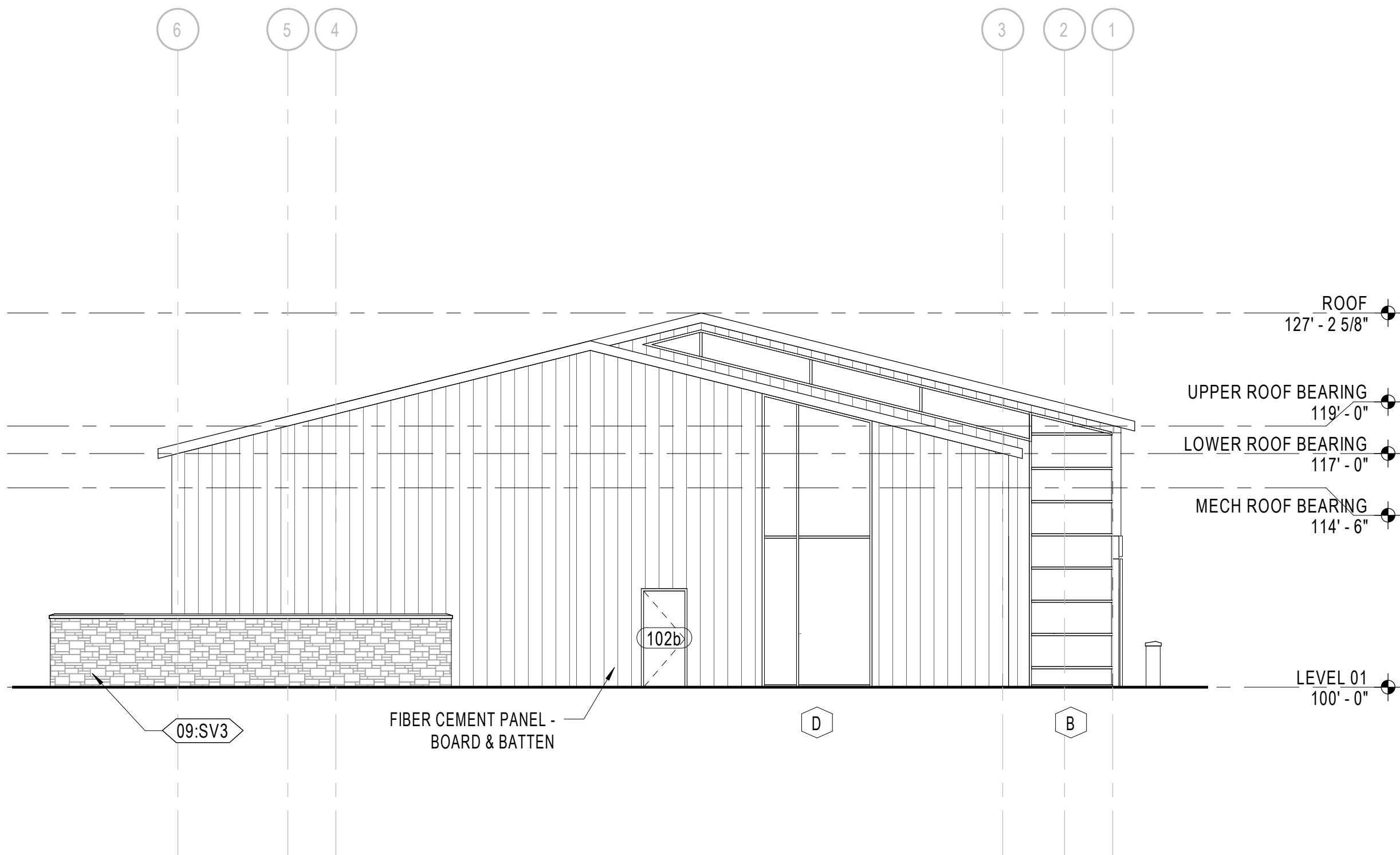
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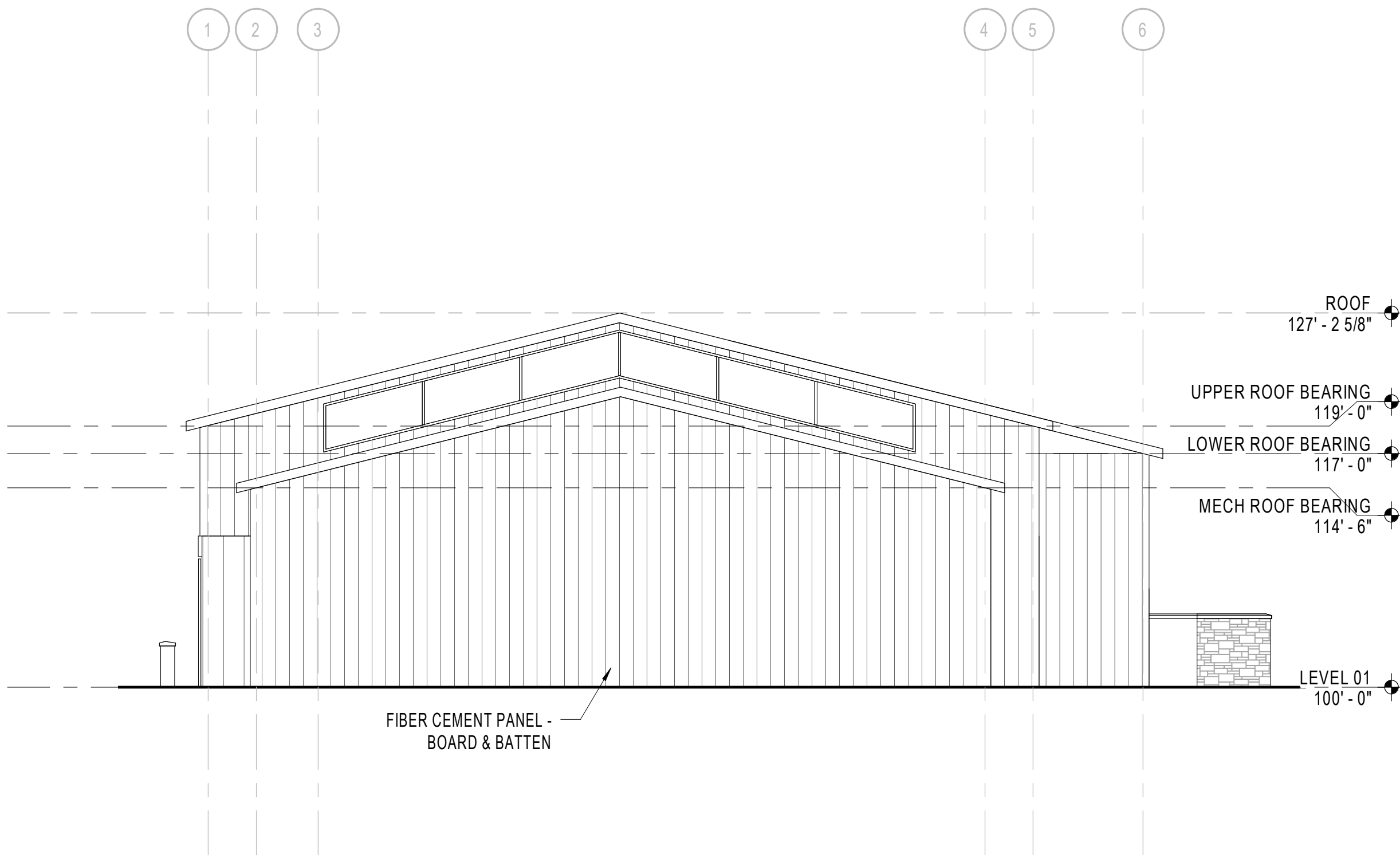
D2 BUILDING ELEVATION (NORTH)
A201 1/8" = 1'-0"



B2 BUILDING ELEVATION (SOUTH)
A201 1/8" = 1'-0"



A2 BUILDING ELEVATION (EAST)
A201 1/8" = 1'-0"



A5 BUILDING ELEVATION (WEST)
A201 1/8" = 1'-0"

**GENERAL NOTE -
BUILDING ELEVATION**

- A. COORDINATE GRADING SHOWN ON ELEVATIONS w/ CIVIL
- B. PROVIDE GUTTERS AND DOWN SPOUTS w/ HEAT CABLE, SNOW FENCES, AND SNOW CLIPS - SEE ROOF PLAN
- C. FOR TYPICAL WALL ASSEMBLY INCLUDING MATERIAL DESIGNATIONS AND DETAILING APPROACH, SEE A380 SERIES

KEYNOTE LEGEND	
09.SV2	STONE VENEER RETAINING WALL
09.SV3	STONE VENEER SCREEN WALL



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DATE: 05.22.18

**BUILDING
ELEVATIONS**

A201

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**GENERAL NOTE -
INTERIOR ELEVATION**

- A. ENSURE THAT ALL REQUIRED FIXTURE AND CABINET CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAG AND ANSI A117.1. SEE SHEET G701 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.
- B. PROVIDE BLOCKING/BACKING AS NECESSARY FOR MOUNTING OF WALL-MOUNTED CABINETS, FIXTURES AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. COORDINATE THIS REQUIREMENT THROUGH ALL FLOOR PLANS, EQUIPMENT PLANS, AND INTERIOR ELEVATIONS.
- C. ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS. PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS.

KEYNOTE LEGEND



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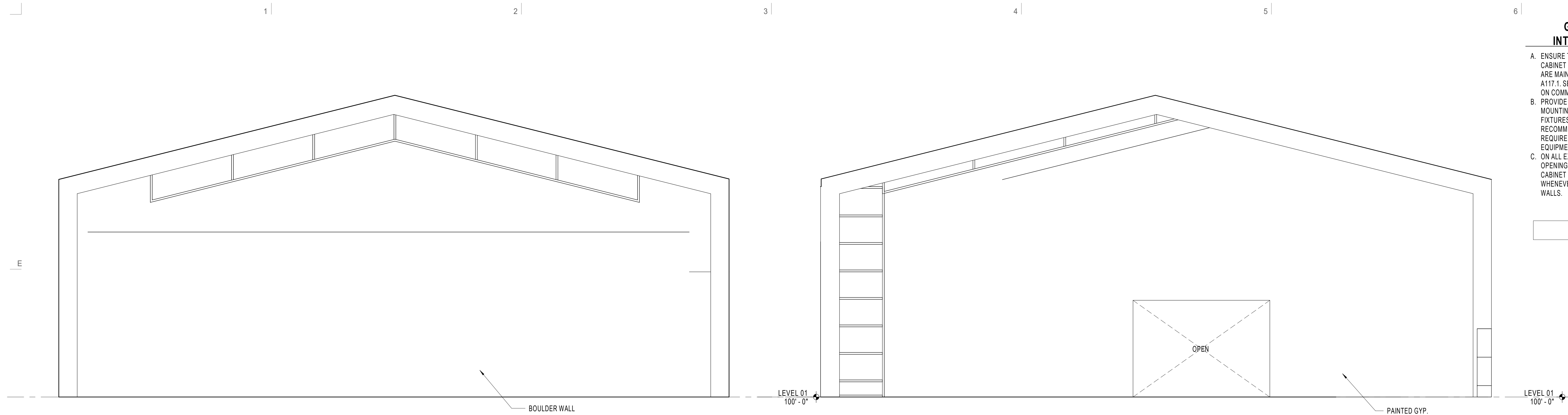
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DATE: 05.22.18

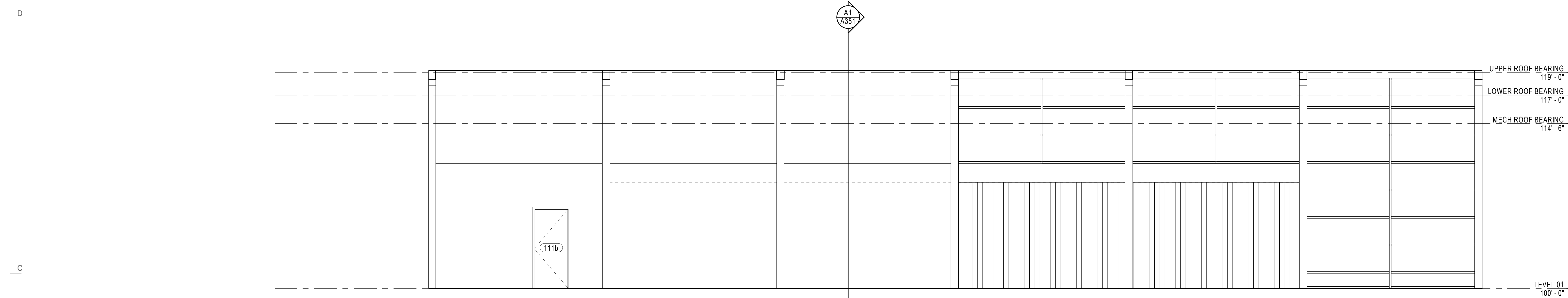
**INTERIOR
ELEVATIONS**

A251

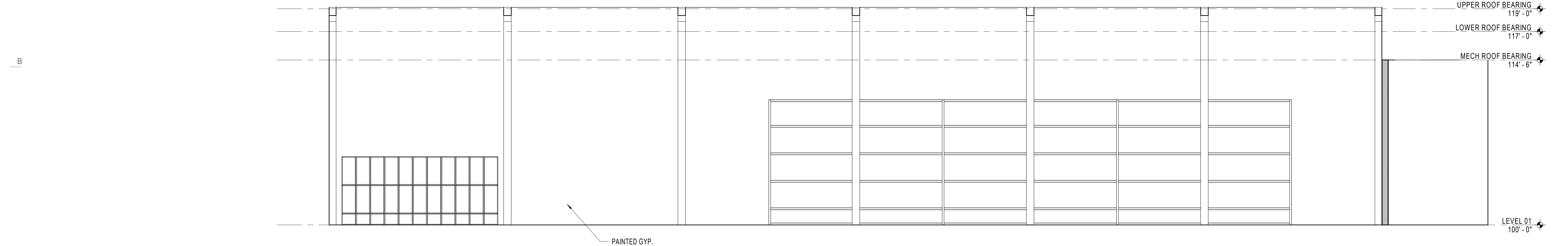


D1 ACTIVITY ROOM ELEVATION (WEST)
A252 1/4" = 1'-0"

D4 ACTIVITY ROOM ELEVATION (EAST)
A252 1/4" = 1'-0"



B2 ACTIVITY ROOM ELEVATION (NORTH)
A252 1/4" = 1'-0"



A2 ACTIVITY ROOM ELEVATION (SOUTH)
A252 1/4" = 1'-0"

**GENERAL NOTE -
INTERIOR ELEVATION**

A. ENSURE THAT ALL REQUIRED FIXTURE AND CABINET CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAAG AND ANSI A117.1. SEE SHEET G701 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.

B. PROVIDE BLOCKING/BACKING AS NECESSARY FOR MOUNTING OF WALL-MOUNTED CABINETS. FIXTURES AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. COORDINATE THIS REQUIREMENT THROUGH ALL FLOOR PLANS, EQUIPMENT PLANS, AND INTERIOR ELEVATIONS.

C. ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS. PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS.

KEYNOTE LEGEND

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**INTERIOR
ELEVATIONS**

A252

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GENERAL NOTE - SECTION

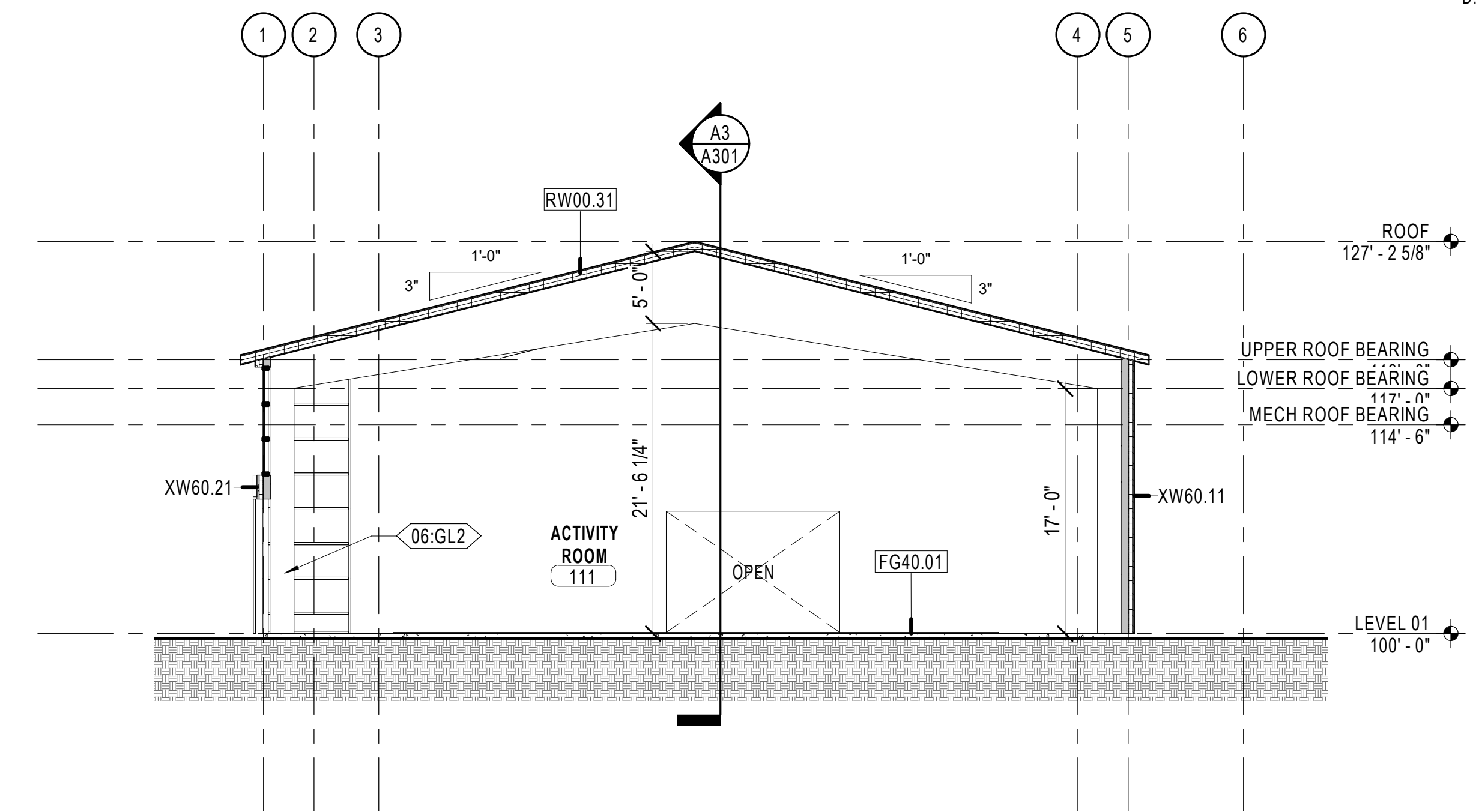
A. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.

B. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

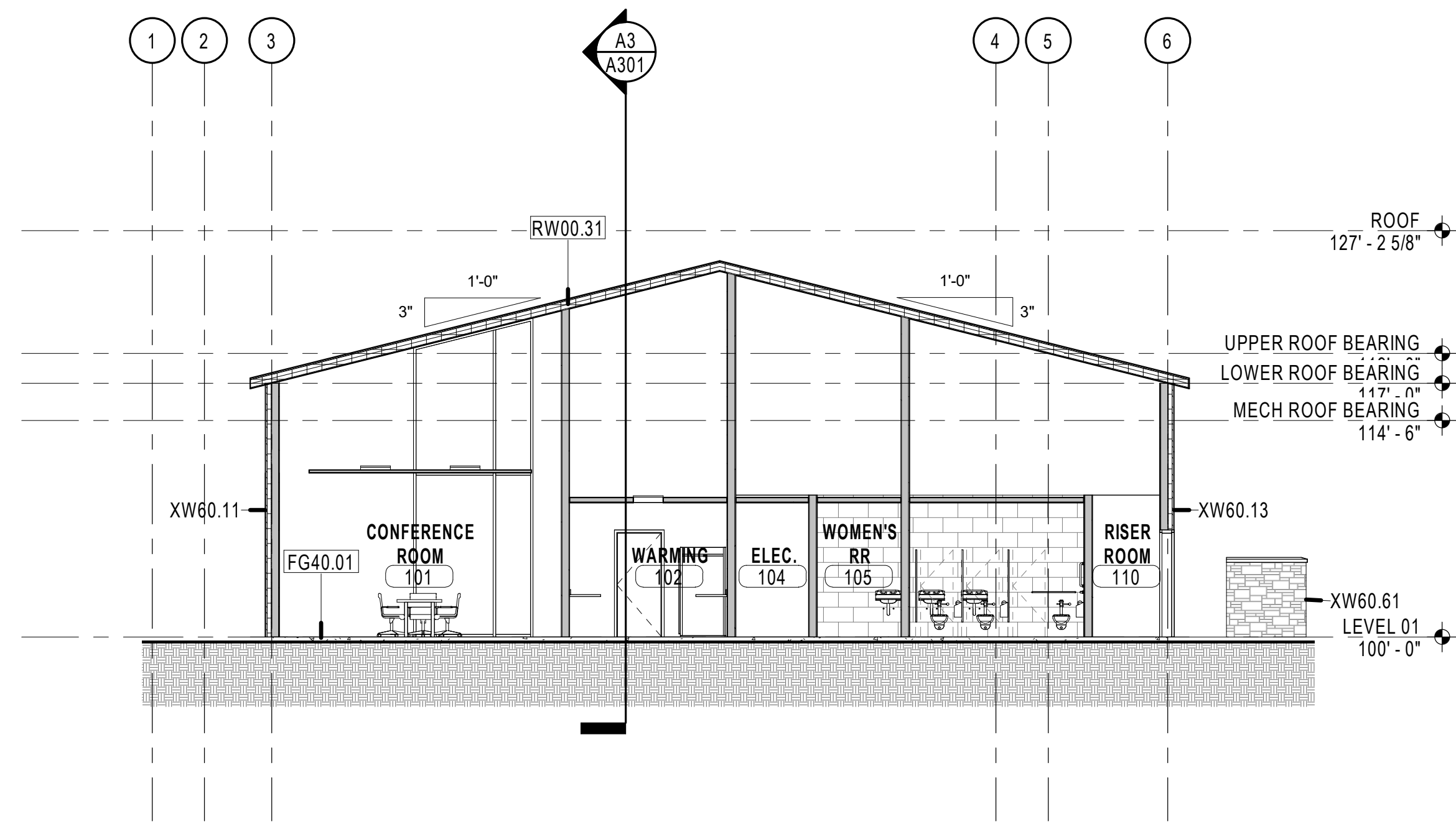
C. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.

D. DO NOT SCALE DRAWINGS.

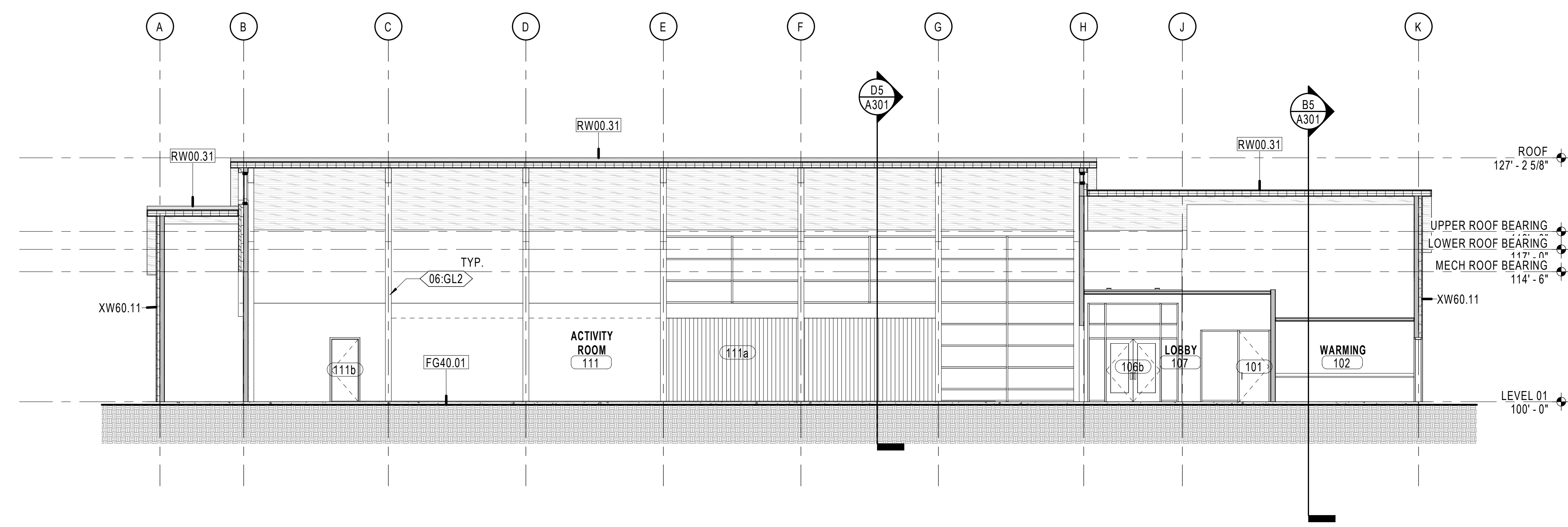
KEYNOTE LEGEND	
06:GL2	GLUED-LAMINATED STRUCTURE



D5 BUILDING SECTION - TRANSVERSE 1
A301 1/8" = 1'-0"



B5 BUILDING SECTION - TRANSVERSE 2
A301 1/8" = 1'-0"



A3 BUILDING SECTION - LONGITUDINAL
A301 1/8" = 1'-0"

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SCHEMATIC DESIGN

NEXUS PROJ. #: 18065
CHECKED BY: Checker
DRAWN BY: Author
DATE: 05.22.18

BUILDING SECTIONS

A301

GENERAL NOTE -
WINDOW TYPES

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES.
- B. PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS, AS DEPICTED IN DETAILS ON SHEET G003b.
- C. EXTERIOR TO BE CURTAIN WALL. INTERIOR TO BE STOREFRONT.

GLAZING SCHEDULE	
G1	1" INSULATED, CLEAR
G2	1" INSULATED, TEMPERED, CLEAR
G3	1/4" CLEAR
G4	1/4" TEMPERED, CLEAR

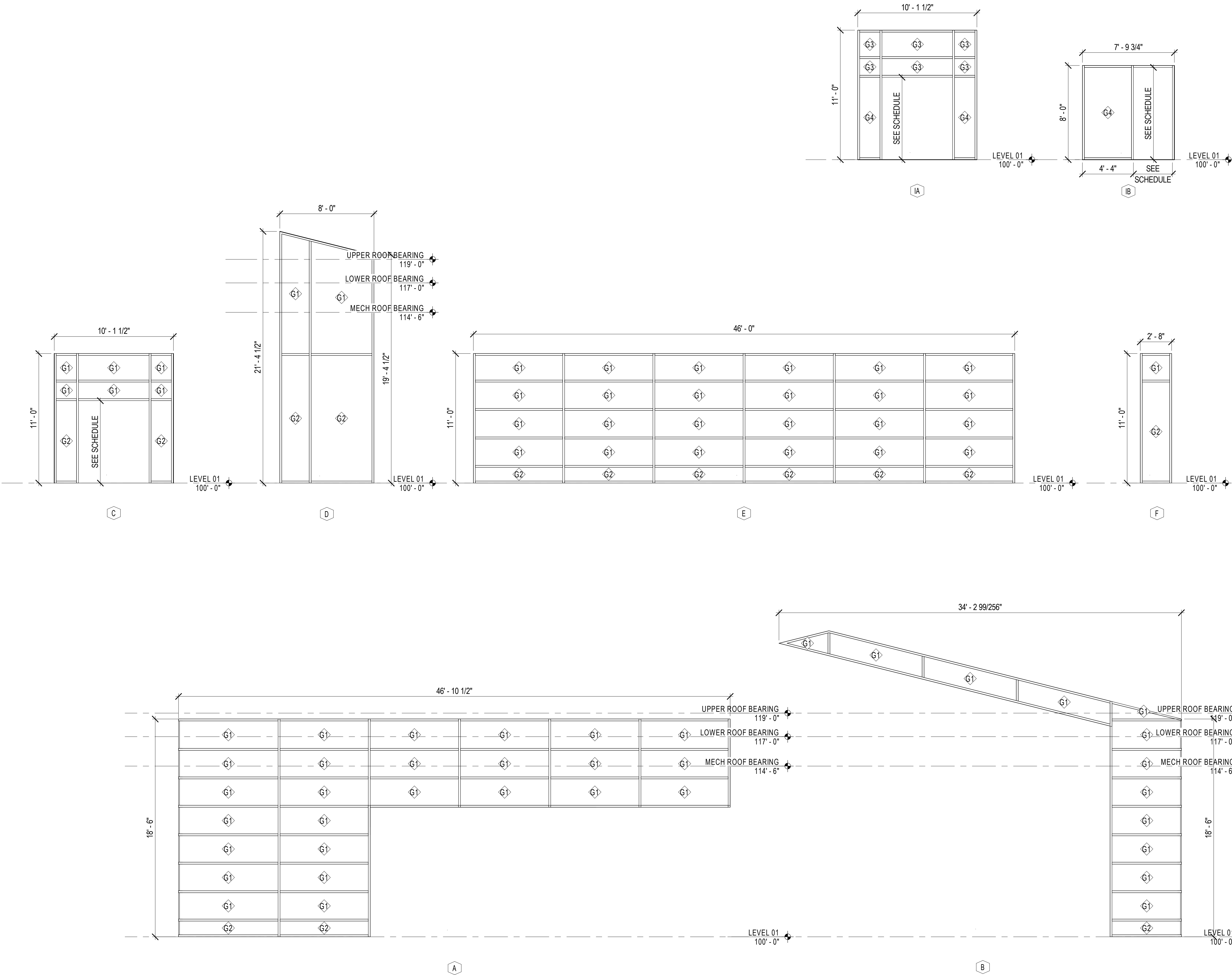
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#	Date	Revision
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STOREFRONT
TYPES

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GENERAL NOTE - FLOOR PLAN

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- C. DO NOT SCALE DRAWINGS.
- D. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- F. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL XXXXXX

NOTE:
TYPICAL EXTERIOR WOOD WALLS 1.75"x5.5" LVL STUDS @ 16" o.c.

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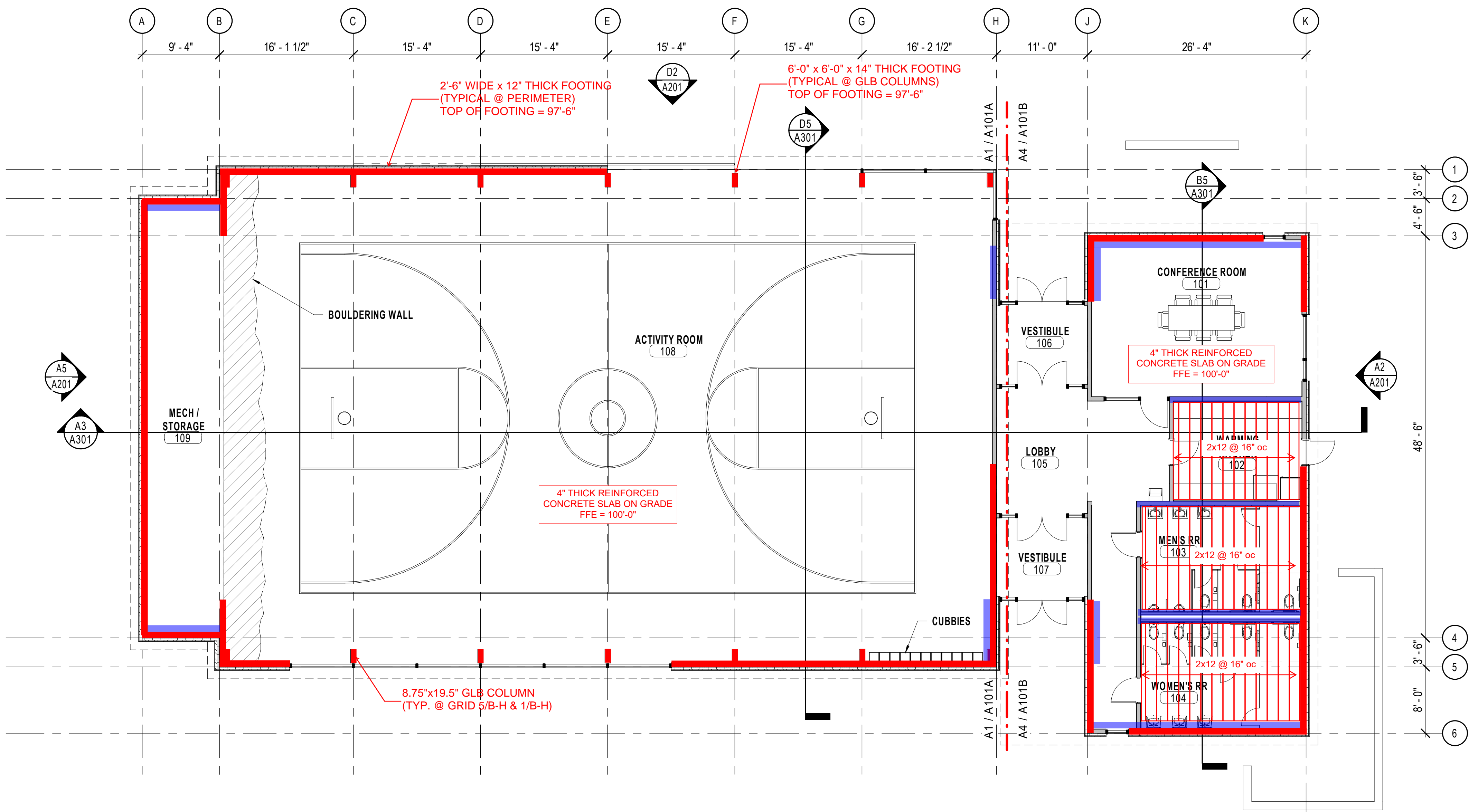
Date Revision

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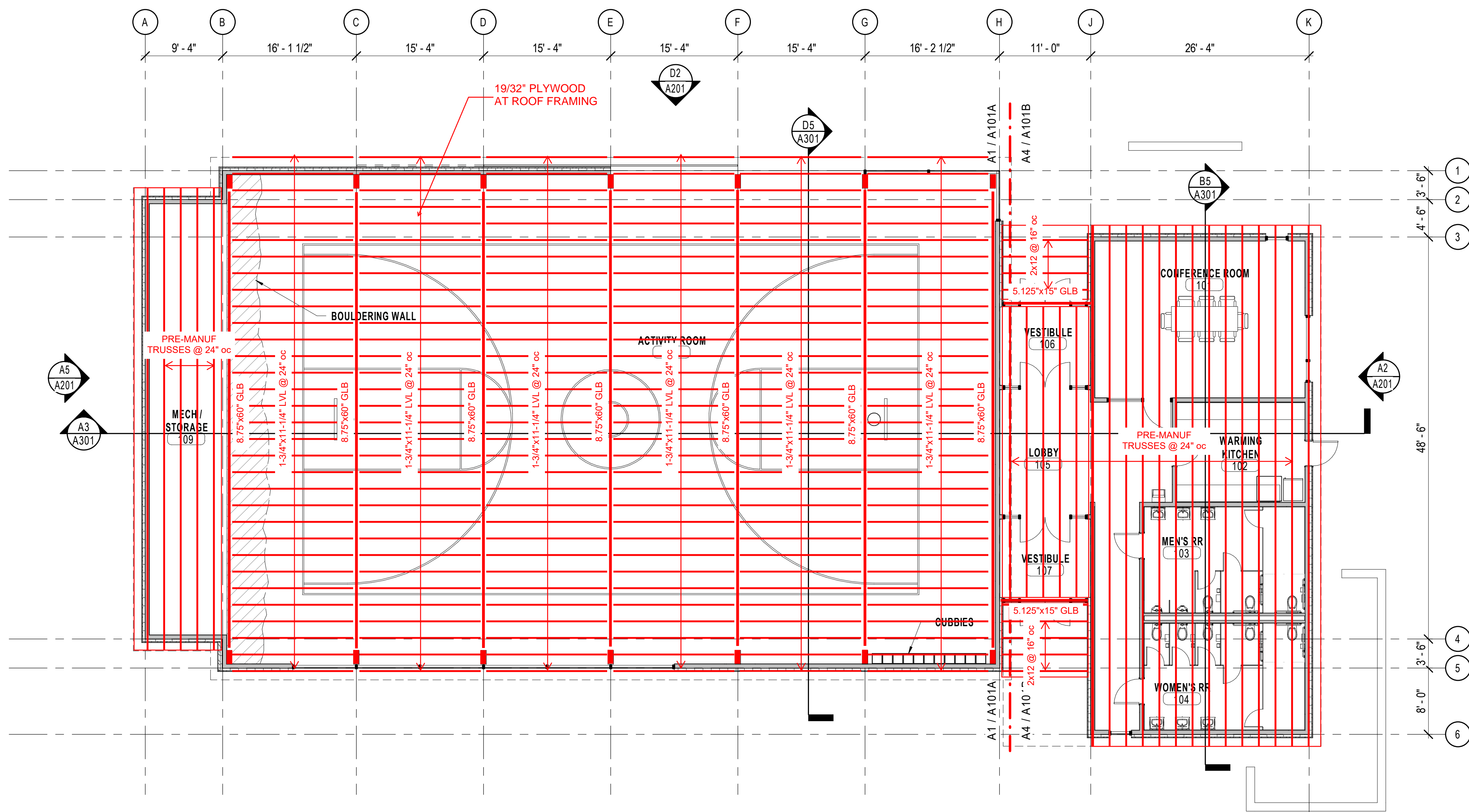
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FLOOR PLAN

S101



FOOTING & FOUNDATION / MECHANICAL MEZZANINE FRAMING PLAN



ROOF FRAMING PLAN

PRELIMINARY - NOT FOR CONSTRUCTION

DESIGN ALTERNATES FOR ROOF FRAMING:

15'-4" BAYS (6 SPACES)
W27x94 GIRDER
W18x76 COLUMN
1-3/4"x11-1/4" LVL JOISTS @ 24" oc

15'-4" BAYS (6 SPACES)
(2) 6-3/4"x45" GLULAM GIRDERS
8-3/4"x19-1/2" GLULAM COLUMN
1-3/4"x11-1/4" LVL JOISTS @ 24" oc

13'-4" BAYS (7 SPACES)
6-3/4"x60" GLULAM GIRDER
6-3/4"x21" GLULAM COLUMN
14" TJI 560 JOISTS @ 16" oc

13'-4" BAYS (7 SPACES)
(2) 6-3/4"x42" GLULAM GIRDERS
6-3/4"x21" GLULAM COLUMN
14" TJI 560 JOISTS @ 16" oc

11'-8" BAYS (8 SPACES)
6-3/4"x57" GLULAM GIRDER
6-3/4"x19-1/2" GLULAM COLUMN
2x12 JOISTS @ 16" oc

11'-8" BAYS (8 SPACES)
(2) 6-3/4"x39" GLULAM GIRDERS
6-3/4"x19-1/2" GLULAM COLUMN
2x12 JOISTS @ 16" oc

10'-4" BAYS (9 SPACES)
6-3/4"x54" GLULAM GIRDER
6-3/4"x19-1/2" GLULAM COLUMN
2x12 JOISTS @ 24" oc

10'-4" BAYS (9 SPACES)
(2) 6-3/4"x37-1/2" GLULAM GIRDERS
6-3/4"x19-1/2" GLULAM COLUMN
2x12 JOISTS @ 24" oc

9'-4" BAYS (10 SPACES)
6-3/4"x51" GLULAM GIRDER
6-3/4"x19-1/2" GLULAM COLUMN
2x12 JOISTS @ 24" oc

9'-4" BAYS (10 SPACES)
(2) 6-3/4"x36" GLULAM GIRDERS
6-3/4"x19-1/2" GLULAM COLUMN
2x12 JOISTS @ 24" oc

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E

D

C

B

A

1

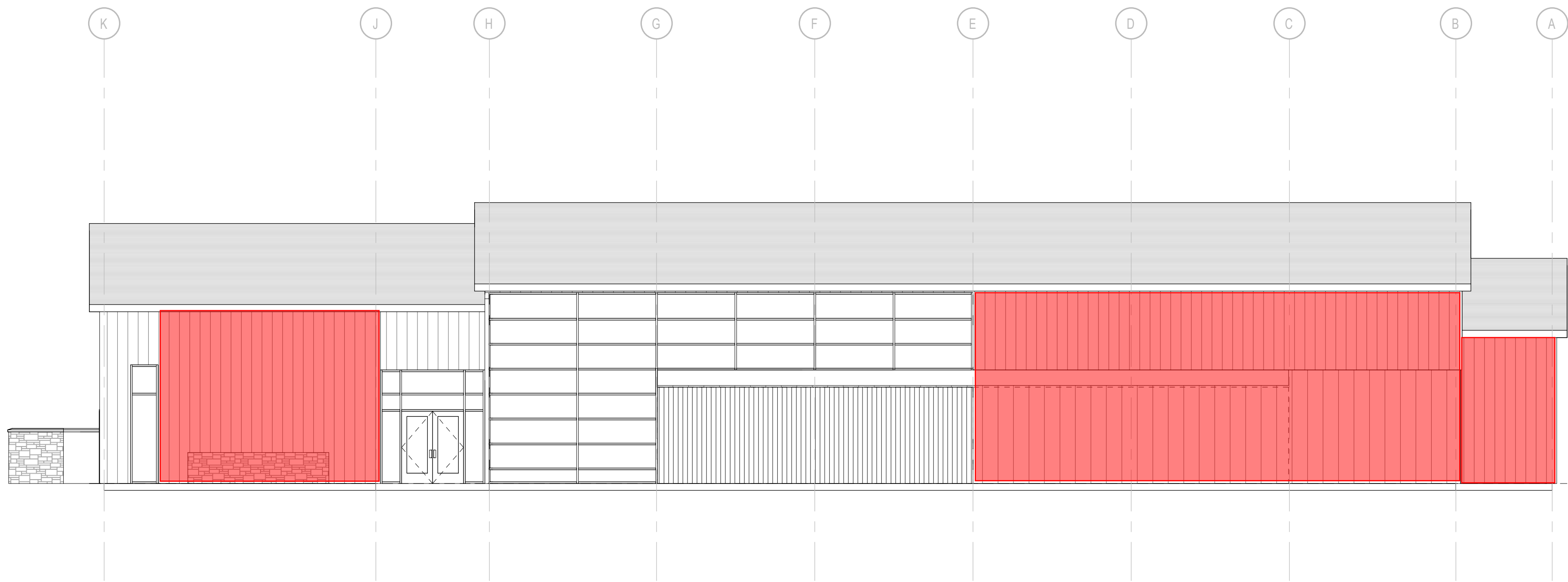
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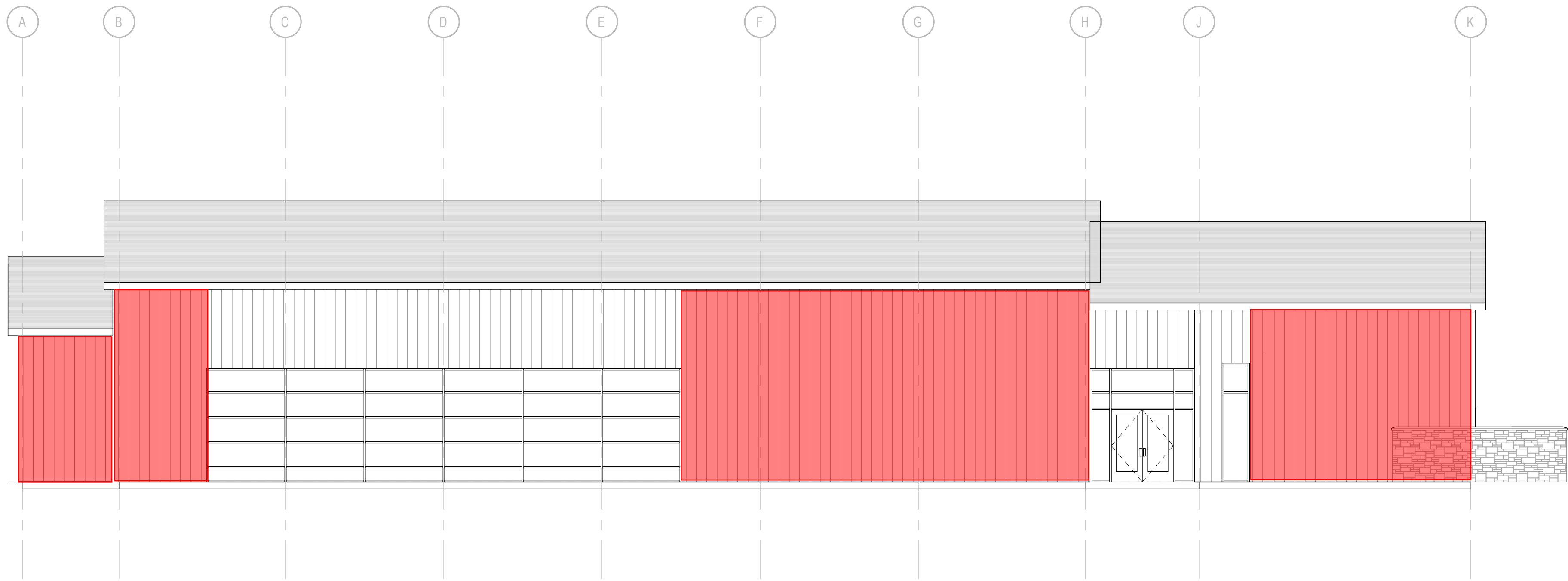
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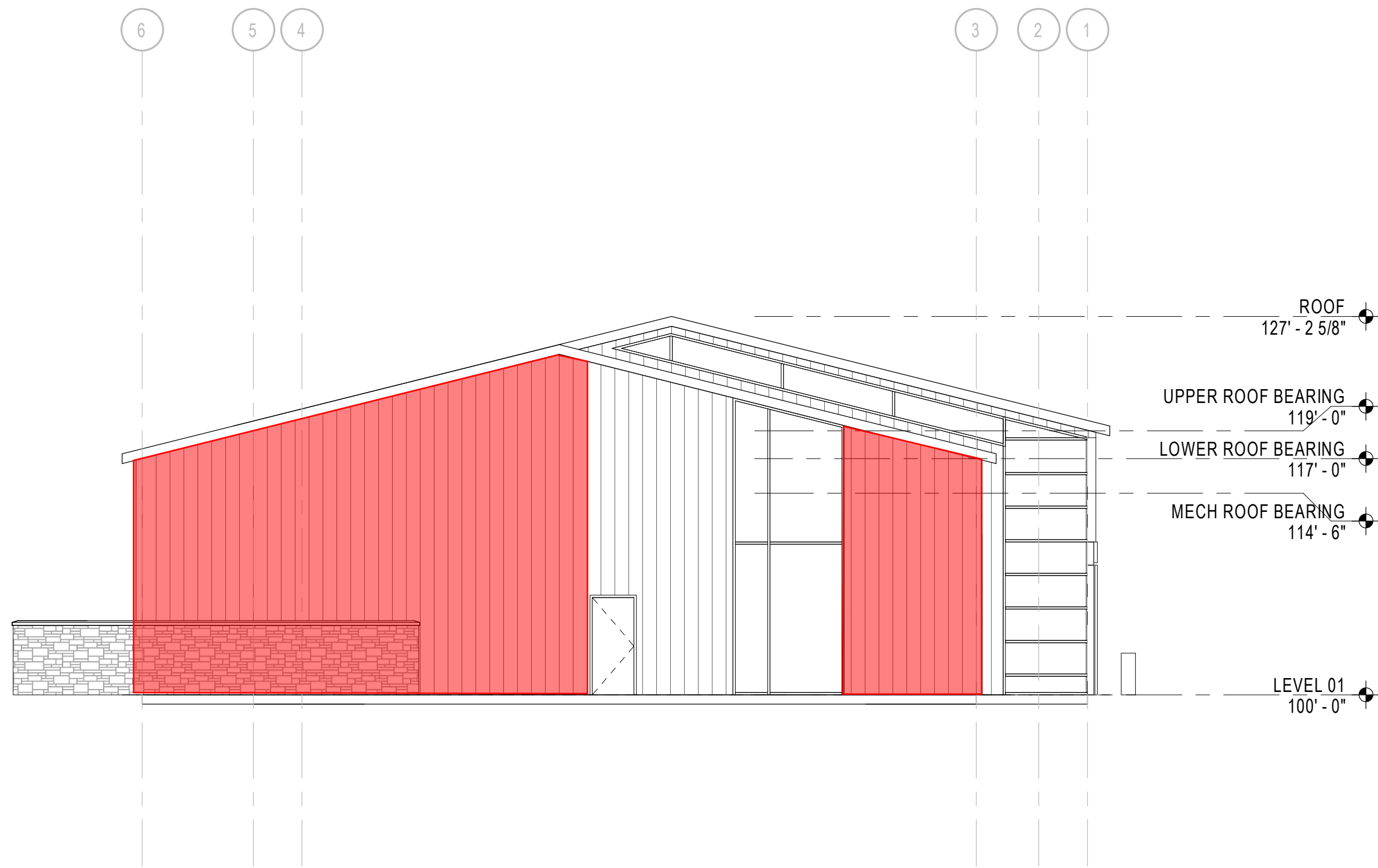
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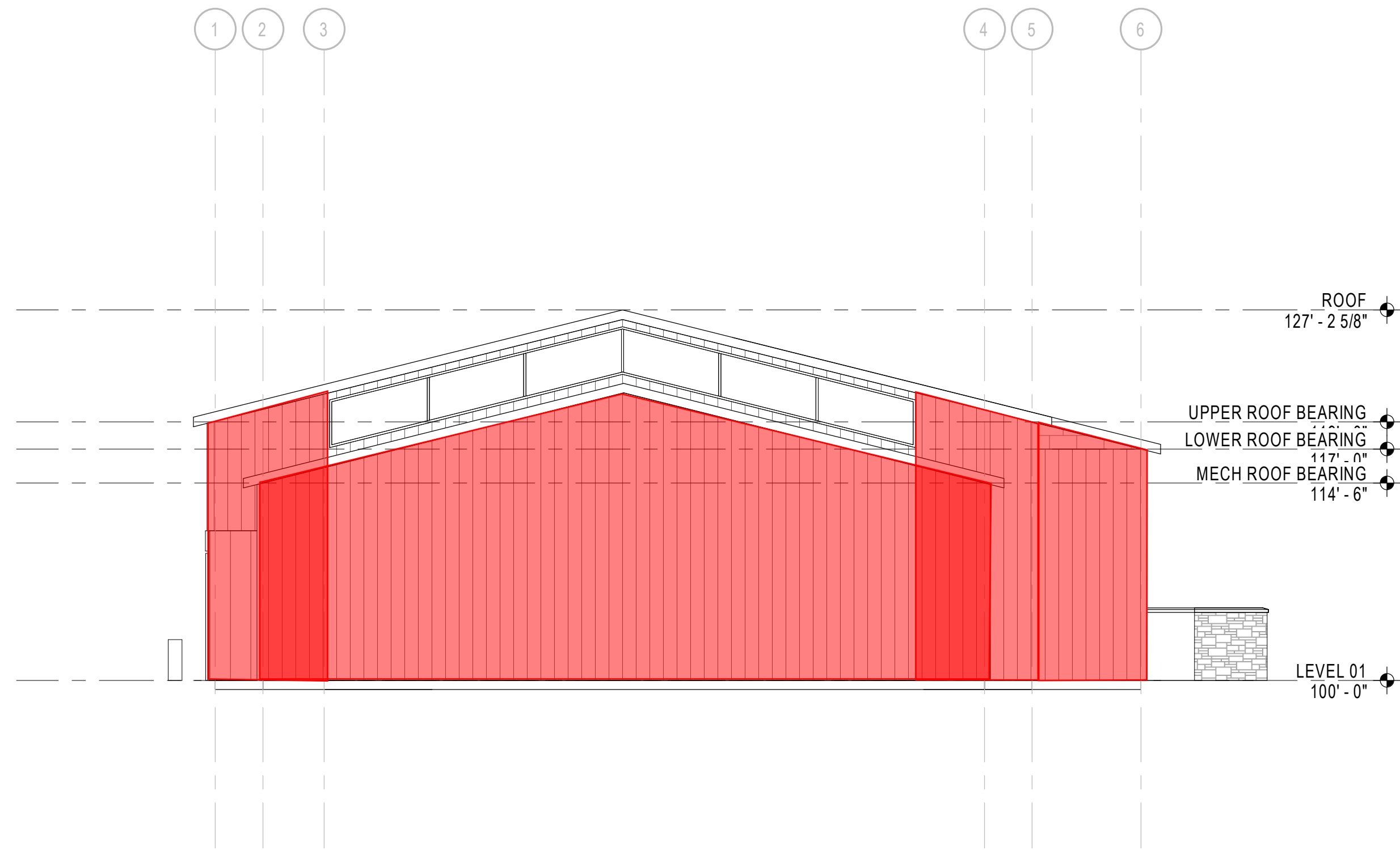
D2 BUILDING ELEVATION (NORTH)
A201 1/8" = 1'-0"



B2 BUILDING ELEVATION (SOUTH)
A201 1/8" = 1'-0"



A2 BUILDING ELEVATION (EAST)
A201 1/8" = 1'-0"



A5 BUILDING ELEVATION (WEST)
A201 1/8" = 1'-0"

- GENERAL NOTE -
BUILDING ELEVATION**
- A. COORDINATE GRADING SHOWN ON ELEVATIONS w/ CIVIL
 - B. PROVIDE GUTTERS AND DOWN SPOUTS w/ HEAT CABLE, SNOW FENCES, AND SNOW CLIPS - SEE ROOF PLAN
 - C. FOR TYPICAL WALL ASSEMBLY INCLUDING MATERIAL DESIGNATIONS AND DETAILING APPROACH, SEE A380 SERIES

KEYNOTE LEGEND

WOOD SHEAR WALL

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFC	NATIONAL FIRE CODE
BC	BARE COPPER	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BFG	BELOW FINISH GRADE	N.I.C.	NOT IN CONTRACT
C	CONDUIT	NO	NORMALLY OPENED
CAB	CABINET	NTS	NOT TO SCALE
CATB	COMMUNITY ANTENNA TELEVISION	OS & Y	OUTSIDE SCREW & YOKE
CATV	CABLE TELEVISION	PB	PUSHBUTTON
CKT	CIRCUIT	PF	POWER FACTOR
CLG	CEILING	PRF	PHASE FAILURE RELAY
CNTR	CONTRACTOR	PNL	PANEL
C.O.	CONDUIT ONLY	PT	POTENTIAL TRANSFORMER
CRT	COMPUTER TERMINAL	PVC	POLYVINYL CHLORIDE CONDUIT
CT	CURRENT TRANSFORMER	(R)	RELOCATE
CU	COPPER	RECEP	RECEPTACLE
CW	COMPLETE WITH	REQ	REQUIREMENT
DB	DECIBEL	RLA	RATED LOAD AMPS
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTT	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UP	UTAH POWER
HZ	HERTZ	UPS	UNINTERRUPTED POWER SUPPLY
IG	ISOLATED GROUND	V	VOLT (KV=KILOVOLT)
IMC	INTERMEDIATE METALLIC CONDUIT	VAR	VOLT-AMPS/REACTIVE
IN	INCH	VM	VOLT METER
J-BOX	JUNCTION BOX	W	WATTS
KV	KILOVOLT	W/	WITH
KVA	KILOVOLT AMPERES	WH	WATT-HOUR METER
KVAR	KILOVARS	W/O	WITHOUT
KW	KILOWATT	WP	WEATHERPROOF
LRA	LOCKED ROTOR AMPS	XFMR	TRANSFORMER
LTG	LIGHTING	XFMR SW	TRANSFER SWITCH
MP	MANUFACTURER	XP	EXPLOSION PROOF
MATV	MASTER ANTENNA TELEVISION	1P	SINGLE-PHASE
MAX	MAXIMUM	2P	TWO-POLE
MB	MAIN BUS	3P	THREE-POLE
MCC	MOTOR CONTROL CENTER	4P	FOUR-POLE
MCM	1000 CIRCULAR MILLS	Ø	PHASE

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 260.10 (165.10) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING			
MAXIMUM LENGTH		BRANCH CIRCUIT VOLTAGE	
CONDUCTOR LENGTH (FT)		120 VOLT	277 VOLT
<70		MIN. #12 AWG	MIN. #12 AWG
		MIN. #10 AWG	MIN. #12 AWG
70 - 115		MIN. #8 AWG	MIN. #10 AWG
115 - 170		MIN. #6 AWG	MIN. #8 AWG
170 - 270		MIN. #6 AWG	MIN. #8 AWG
271 - 380		NOTE B	MIN. #8 AWG
>380		NOTE B	NOTE B

- THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.

TELEPHONE/DATA LEGEND ▼ (X)

- ▼ T 1 PHONE
▼ R 1 DATA
▼ X 2 DATA
▼ Y 3 DATA
▼ Z 4 DATA
☆ WIRELESS ACCESS POINT, 1 DATA

ELECTRICAL SITE UTILITY COORDINATION

ELECTRICAL SITE UTILITY INFORMATION HAS BEEN COORDINATED WITH THE FOLLOWING UTILITY COMPANY REPRESENTATIVES. VERIFY ALL LOCATIONS, DIMENSIONS, CLEARANCES, REGULATIONS, ETC., PRIOR TO INSTALLATION. NOTIFY ENGINEER OF ANY REVISIONS REQUIRED.

POWER COMPANY	X
CONTACT	X
PHONE NO.	X
EMAIL	X
WORK ORDER NO.	X
TELEPHONE COMPANY	X
CONTACT	X
PHONE NO.	X
EMAIL	X
CABLE TV COMPANY	X
CONTACT	X
PHONE NO.	X
EMAIL	X

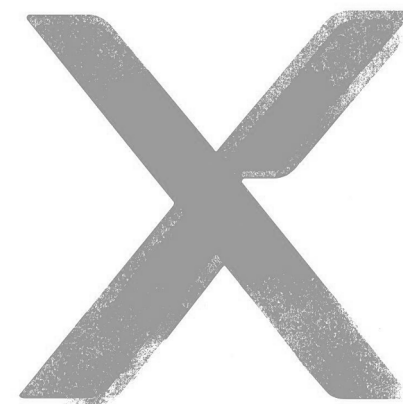
ELECTRICAL SYMBOL SCHEDULE

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
- NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
- HEIGHT MEASURED TO TOP OF THE BOX FROM FINISH FLOOR.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
- COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- SUBSCRIPT DENOTES NEMA CONFIGURATION.
- HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
- COORDINATE WITH DOOR HARDWARE SUPPLIER.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS				
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	
	ONE CIRCUIT, HOME RUN TO PANEL			
	2 CIRCUIT, HOME RUN TO PANEL			
	3 CIRCUIT, HOME RUN TO PANEL			
	CONDUIT RUN CONCEALED IN WALL OR CEILING			
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			
	CONDUIT UP			
	CONDUIT DOWN			
	CONDUIT STUB LOCATION	CAP CONDUIT		
	CONDUIT/CIRCUIT CONTINUATION			
	CABLE TRAY			
	CEILING LIGHT FIXTURE	CEILING	1.	
	WALL LIGHT FIXTURE	AS NOTED	1.	
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	
	RECESSED WALLWASH DOWNLIGHT FIXTURE	CEILING	1.	
	LIGHT FIXTURE	AS NOTED	1.	
	EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED	
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	SEE DIAGRAM	
	FLOOD OR TRACK FIXTURE	AS NOTED		
	CEILING/WALL MOUNTED EXIT LIGHT	CEILING/AS NOTED	1,3,8.	
	SINGLE POLE SWITCH	+4'-0"	6, 4.	
	THREE-WAY SWITCH	+4'-0"	6.	
	FOUR-WAY SWITCH	+4'-0"	6.	
	KEY OPERATED SWITCH	+4'-0"	6.	
	SWITCH WITH PILOT LIGHT	+4'-0"	6.	
	VARIABLE INTENSITY SWITCH	+4'-0"	6.	
	TIMER SWITCH	+4'-0"	6.	
	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	6.	
	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE) SEE DIAGRAM	+4'-0"	6, SEE DIAGRAM SPEC.	
	CEILING/WALL MOUNTED OCCUPANCY SENSOR SUBSCRIPT A=ANALOG, D = DIGITAL	CEILING/ +4'-0"	6.	
	POWER PACK	CEILING	SEE DIAGRAM, SPEC.	
	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	CEILING	SEE DIAGRAM, SPEC.	
	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.	
	RECEPTACLE SWITCH PACK	CEILING		
	AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM, SPEC.	
	LOW VOLTAGE TRANSFORMER			
	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A	
	DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPECIFICATION	
	TIME CLOCK	+5'-0"	2.	
	DUPLEX RECEPTACLE	UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED 9. 11.	
	SIMPLEX RECEPTACLE		+16" OR AS NOTED 9. 11.	
	SIMPLEX RECEPTACLE WITH USB OUTLET		+16" OR AS NOTED 9. 11.	
	DUPLEX RECEPTACLE		+16" OR AS NOTED 9. 11.	
	DUPLEX RECEPTACLE WITH USB OUTLET		+16" OR AS NOTED 9. 11.	
	CONTROLLED RECEPTACLE		+16" OR AS NOTED 9. 11.	
	DUPLEX RECEPTACLE		9.	
	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM	
	WEATHERPROOF RECEPTACLE		+24" OR AS NOTED 2. 9.	
	ISOLATED GROUND RECEPTACLE		+16" OR AS NOTED 2. 9.	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE		+16" OR AS NOTED 9. 11.	
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)		+16" OR AS NOTED 9. 11.	
	FOURPLEX RECEPTACLE		+16" OR AS NOTED 9. 11.	
	GROUND FAULT INTERRUPTER FOURPLEX RECEPTACLE		+16" OR AS NOTED 9. 11.	
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)		+16" OR AS NOTED 9. 11.	
	TVSS PROTECTED RECEPTACLE		+16" OR AS NOTED 9. 11.	
	SPECIAL PURPOSE OUTLET		+16" OR AS NOTED 10. WITH CAP. 11.	
	CORD DROP		SEE DIAGRAM	
	CORD REEL		SEE DIAGRAM	
	TOMBSTONE RECEPTACLE			
	PLUGMOLD		+46" OR AS NOTED +16" OR AS NOTED	
	TELEVISION OUTLET		+16" OR AS NOTED 11.	
	POWER POLE			
	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM, SPEC. 26.2726 SEE DIAGRAM, SPEC.	
	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING		
	DATA OUTLET, ONE CABLE	+16" OR AS NOTED	9. 11.	
	DATA OUTLET, TWO CABLES	+16" OR AS NOTED	9. 11.	
	DATA OUTLET, THREE CABLES	+16" OR AS NOTED	9. 11.	
	DATA OUTLET, W/MORE THAN (3) CABLES	+16" OR AS NOTED	9. 11.	
	WIRELESS ACCESS POINT, ONE CABLE	CEILING		
	CALL SWITCH	+4'-0"	6.	
	OUTLET BOX, SUBSCRIPT FOR CIRCUIT NUMBER	+16" OR AS NOTED		
	GRID IRON JUNCTION BOX	AS NOTED		
	NETWORK TAP	+16" OR AS NOTED		
	ENTRY STATION	+4'-0"		
	CLOCK OUTLET	+7'-6"	8.	
	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.	
	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.	
	FLIP-TOP BOX		9.	
	JUNCTION BOX (F" IN FLOOR)		AS NOTED	
	MOTOR OUTLET		TO SUIT EQUIP.	
	PUSHBUTTON		+4'-0"	6.
	NON-FUSED DISCONNECT SWITCH		+5'-0"	5.
	FUSED DISCONNECT SWITCH		+5'-0"	5.
	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT		+4'-0"	2.
	MAGNETIC STARTER		+5'-0"	7.
	MAGNETIC STARTER / DISCONNECT COMBINATION		+5'-0"	
	VARIABLE FREQUENCY DRIVE		+6'-6"	
	PANEL BOARD		TOP AT +6'-0"	
	MAIN DISTRIBUTION PANEL			
	TELEPHONE TERMINAL BOARD			
	GROUND BUS BAR			
	EQUIPMENT CABINET/RACK			CIRCUIT TO 120V
	BELL		+7'-6"	
	CHIME		+7'-6"	
	FIRE ALARM MANUAL STATION		+4'-0"	6.
	FIRE ALARM SIGNAL HORN/STROBE		+8'-0"	6.
	CONCEALED FIRE ALARM SIGNAL HORN/STROBE	CEILING		
	CONCEALED FIRE ALARM SIGNAL HORN/STROBE WALL		+8'-0"	6.
	FIRE ALARM SIGNAL SPEAKER/STROBE		+8'-0"	6.
	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	CEILING		
	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE WALL		+8'-0"	6.
	FIRE ALARM STROBE		+8'-0"	6.
	CONCEALED FIRE ALARM SIGNAL STROBE	CEILING		
	CONCEALED FIRE ALARM SIGNAL STROBE WALL		+8'-0"	6.
	FIRE ALARM SPEAKER ONLY		+8'-0"	6.
	FIRE ALARM SIGNAL STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	CEILING/+8'-0"		MOUNT AS PER MFR.
	ASPIRATING SMOKE DETECTION SYSTEM	CEILING		MOUNT AS PER MFR.
	SMOKE DETECTOR	CEILING		
	SMOKE/CARBON MONOXIDE DETECTOR	CEILING		
	CARBON MONOXIDE DETECTOR	CEILING		
	HEAT DETECTOR	CEILING		
	DUCT SMOKE DETECTOR			MTD. IN DUCT
	FIRE/SMOKE DAMPER			
	DOOR HOLDER		AS NOTED	
	FLOW SWITCH			
	TAMPER SWITCH			
	WATER FLOOD INDICATOR			
	O.S. & Y. VALVE			SEE DIAGRAM
	FIRE ALARM RELAY OR SECURITY RELAY			
	FIRE ALARM CONTROL MODULE			
	FIRE ALARM MONITOR MODULE			
	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR PANEL		+4'-0"	6.
	TWO-WAY COMMUNICATION SYSTEM CALL STATION		+4'-0"	6.
	DURESS PUSHBUTTON		+4'-0"	6.
	SECURITY SYSTEM DOOR SWITCH		DOOR JAMB	
	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING		MOUNT AS PER MFR.
	MAGNETIC SHEAR LOCK			
	SECURITY SYSTEM KEYED ACCESS SWITCH		+4'-0"	6.
	SECURITY SYSTEM KEYPAD		+4'-0"	6.
	INFRARED SENSOR		AS NOTED	
	SECURITY MOTION DETECTOR			MOUNT AS PER MFR.
	SECURITY SYSTEM POP-IT			MOUNT AS PER MFR.
	GLASS BREAK DETECTOR	CEILING		
	ELECTRIC DOOR STRIKE			12.
	ELECTRIC DOOR LOCK			12.
	ACCESS CONTROL SYSTEM, REQUEST TO EXIT			
	ACCESS CONTROL CARD READER		+4'-0"	6.
	ACCESS CONTROL BIOMETRIC READER		+4'-0"	6.
	CAMERA - SEE SCHEDULE		AS NOTED	SEE DIAGRAM, SPEC.
	DOOR POSITION INDICATING SWITCH			
	LIGHT FIXTURE (LETTER DESIGNATES TYPE)			
	EQUIPMENT NUMBER			
	ARCHITECTURAL ROOM NUMBER			
	DEVICE/EQUIPMENT (TEXT DESIGNATES TYPE)			
	SEE SCHEDULE			

SHEET INDEX

E001	SYMBOLS, SCHEDULES AND NOTES
E002	SCHEDULES
E101	ELECTRICAL SITE PLAN
E201	MAIN LEVEL LIGHTING PLAN
E301	MAIN LEVEL POWER PLAN
E401	MAIN LEVEL SYSTEMS PLAN
E501	ONE-LINE DIAGRAM
E601	PANELBOARD SCHEDULES
E602	PANELBOARD SCHEDULES
E701	ELECTRICAL DIAGRAMS
E702	ELECTRICAL DIAGRAMS



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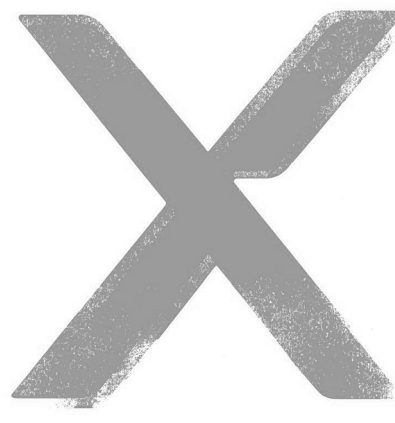
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SYMBOLS, SCHEDULES AND NOTES

E001



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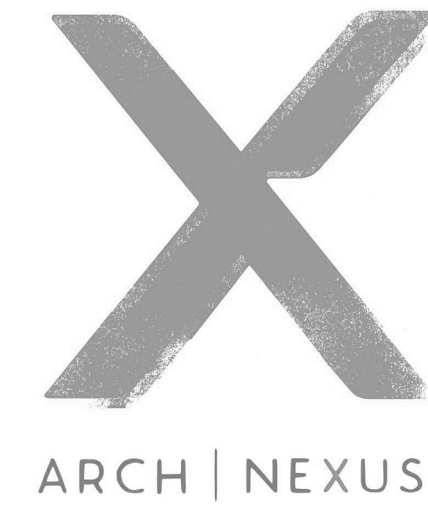
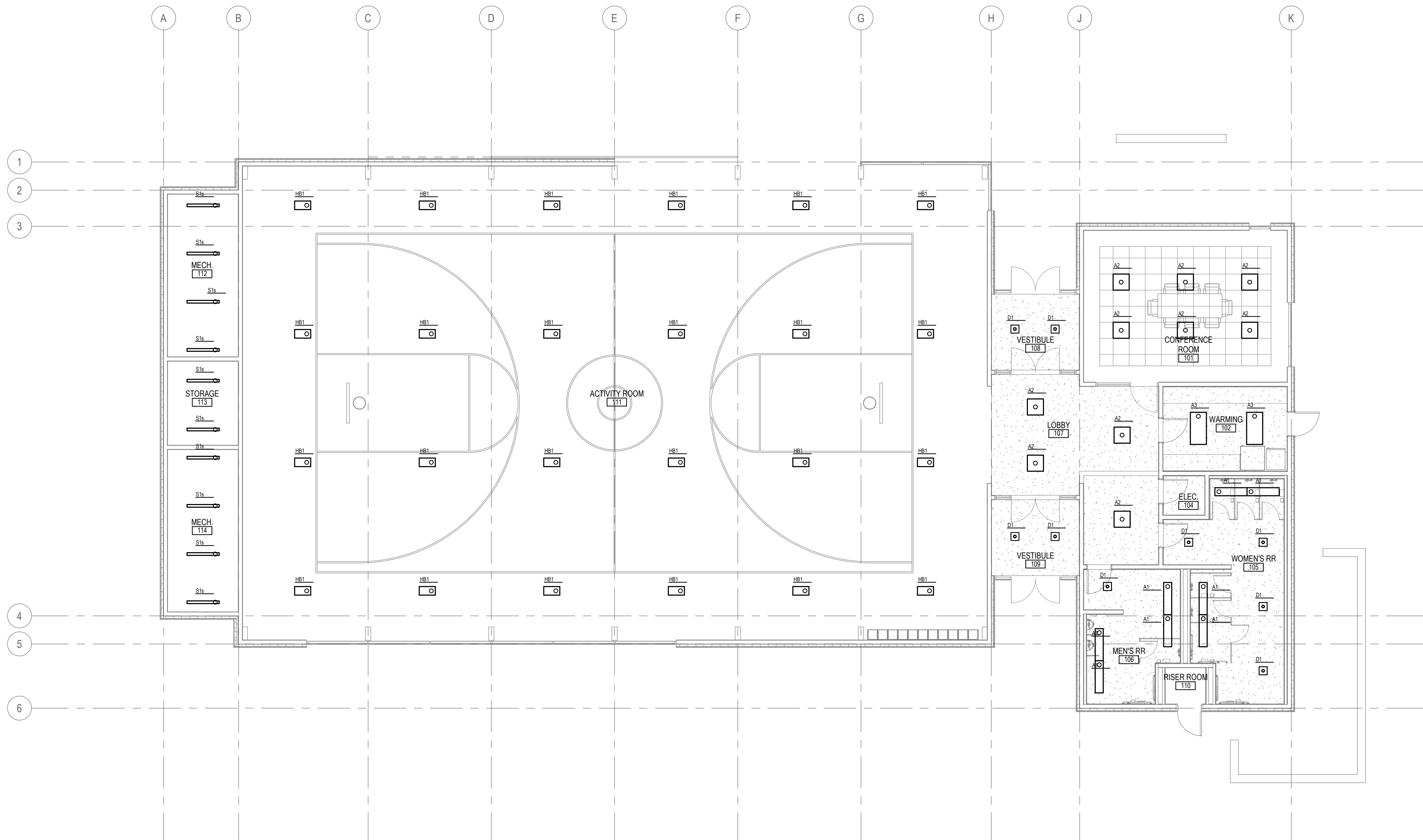
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**ELECTRICAL
SITE PLAN**

E101

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LEVEL 01 LIGHTING PLAN
SCALE = 1/8" = 1'-0"



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MAIN LEVEL
LIGHTING PLAN

E201

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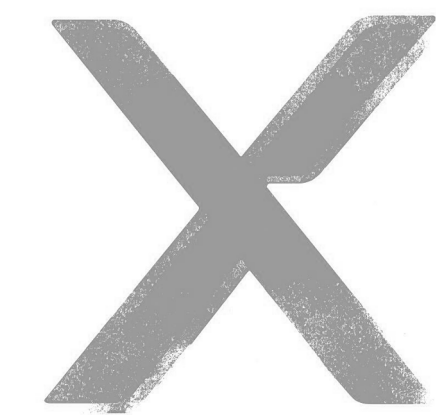
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SHEET KEYNOTES



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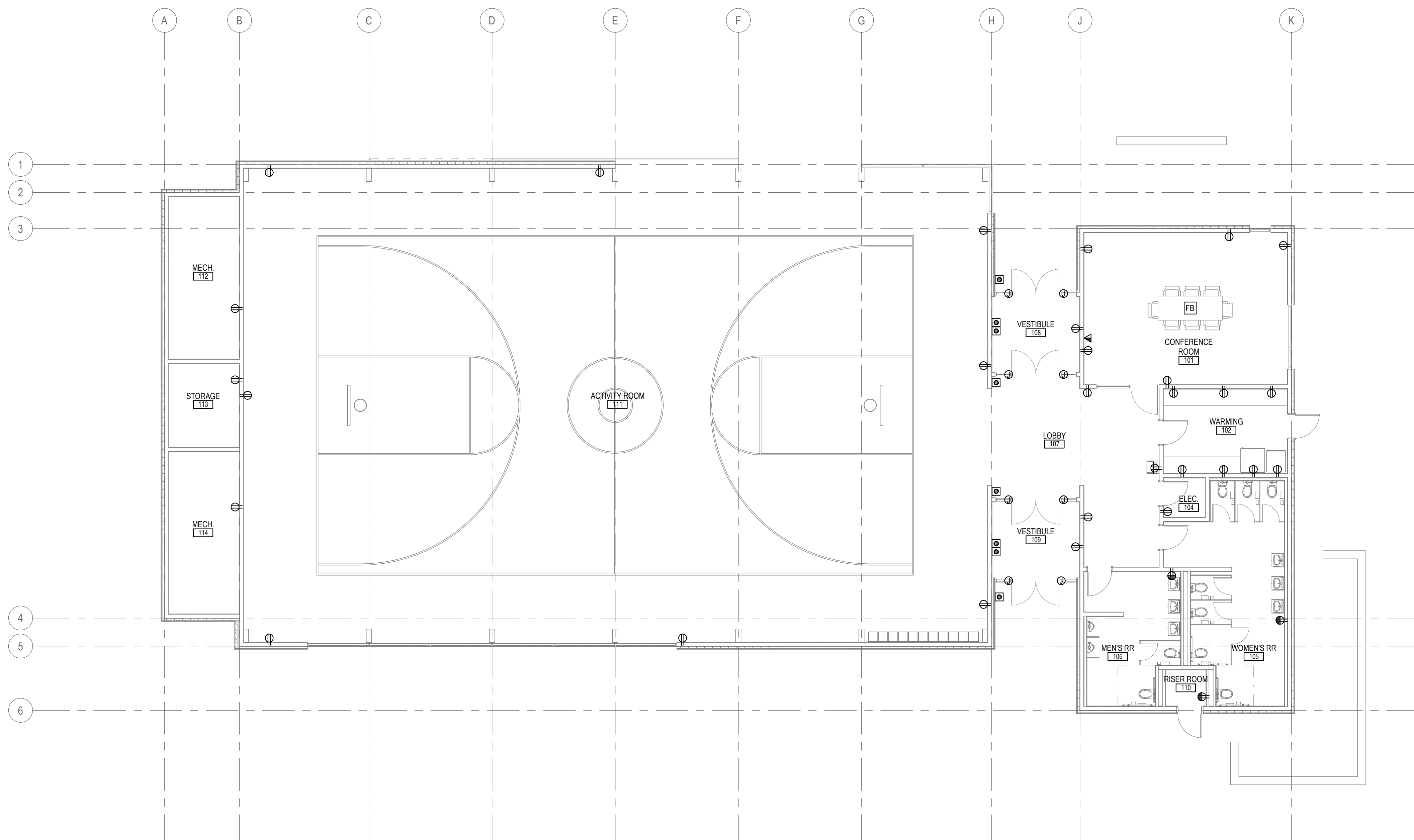
MAIN LEVEL
POWER PLAN

E301



LEVEL 01 POWER PLAN

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



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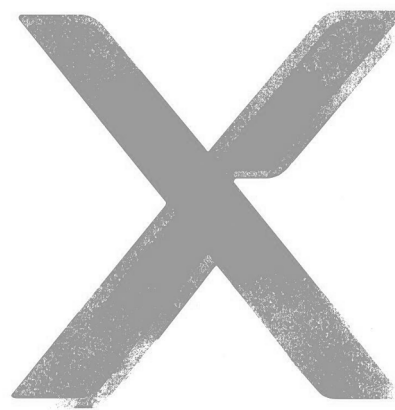
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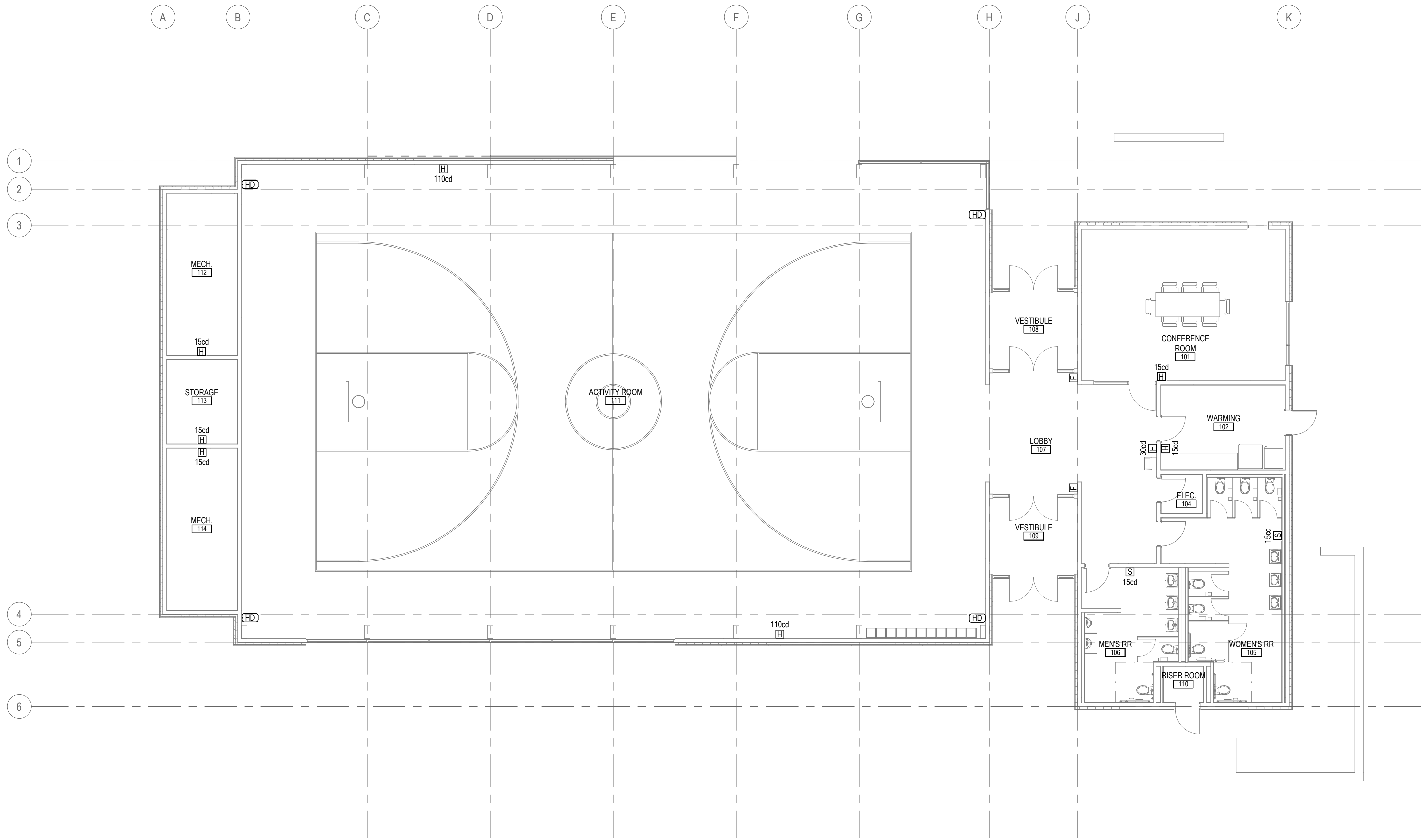
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LEVEL 01 SYSTEMS PLAN
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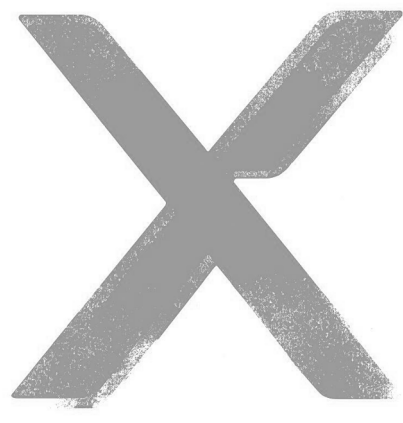
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MAIN LEVEL
SYSTEMS PLAN

E401



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ONE-LINE
DIAGRAM

E501

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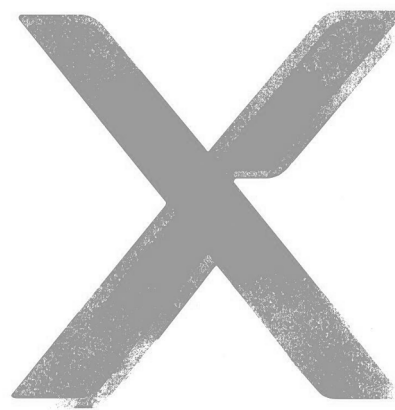
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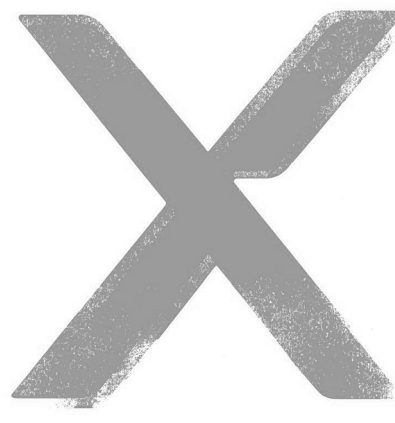
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PANELBOARD
SCHEDULES

E601



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**PANELBOARD
SCHEDULES**

E602

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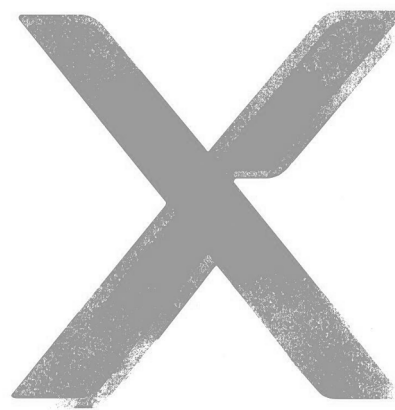
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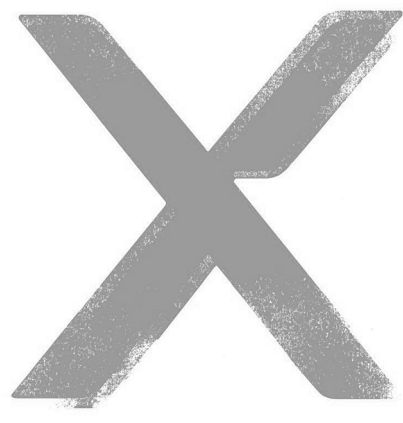
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ELECTRICAL
DIAGRAMS

E701



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**ELECTRICAL
DIAGRAMS**

E702