

# ISSUE FOR BID

01.24.2024

## PROJECT # SP 23-2 TULSA PERFORMING ARTS CENTER - PACKAGE No. 1 AND No. 2

110 E. 2nd STREET  
TULSA, OKLAHOMA 74103

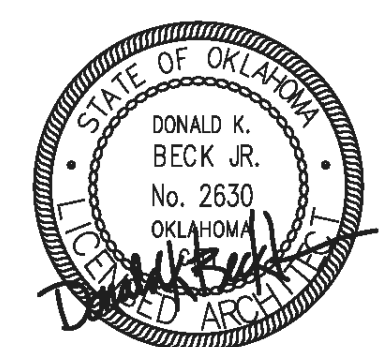


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PROJECT NO:  
202331.00



01.24.2024

01.24.2024  
ISSUE FOR BID  
PROJECT # SP 23-2  
TULSA PERFORMING ARTS CENTER -  
PACKAGE No. 1 AND No. 2





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PROJECT:  
**PROJECT #  
SP 23-2  
TULSA  
PERFORMING  
ARTS CENTER -  
PACKAGE No. 1  
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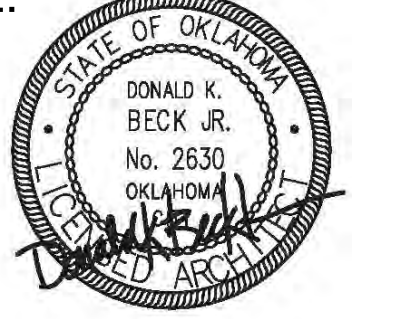
PROJECT NUMBER:  
**202331.00**

CONSULTANT:

**REVISIONS:**

No	Description	Date
1	PERMIT SET	12.13.2023
3	ISSUE FOR BID	01.24.2024

SEAL:



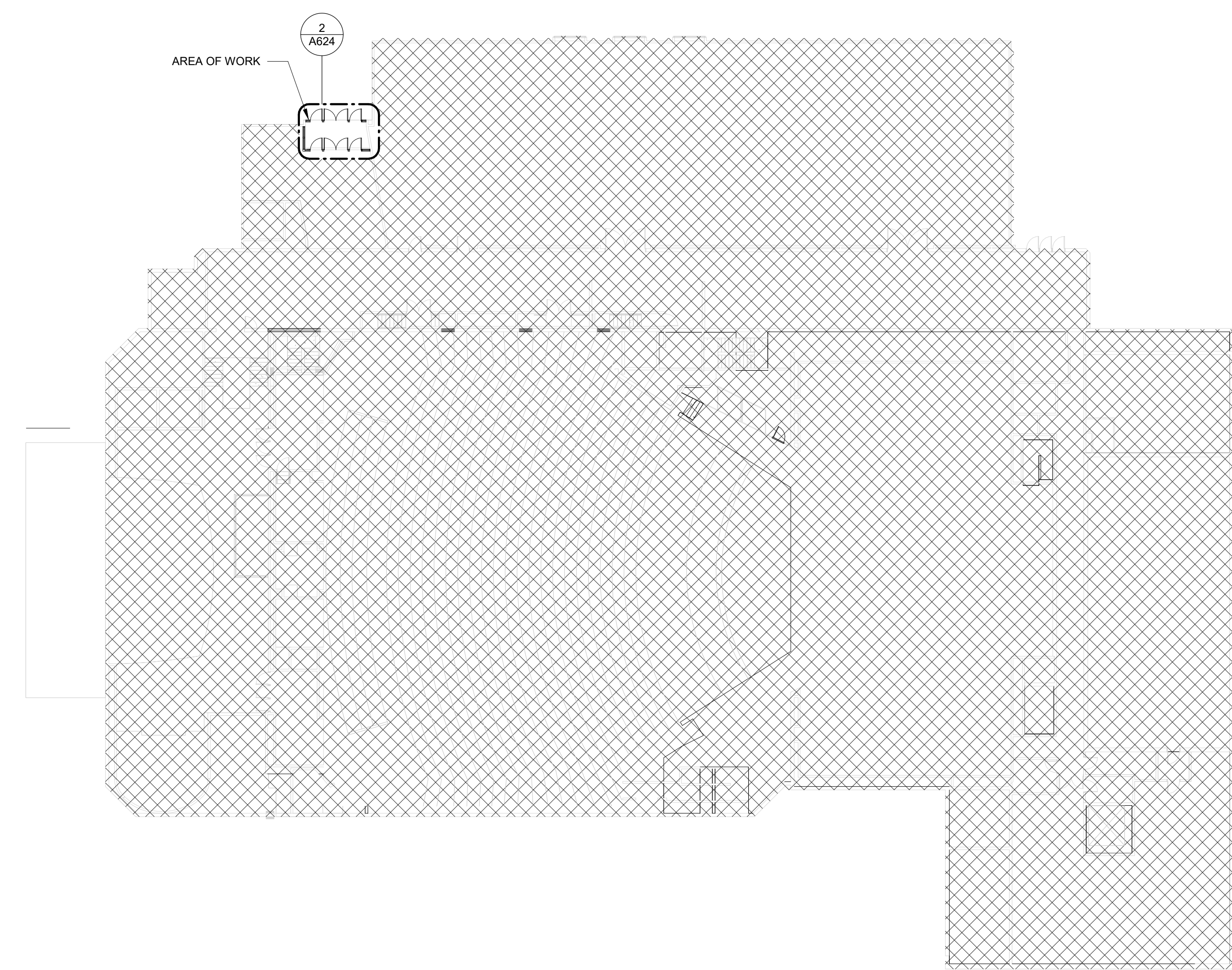
01.24.2024

ISSUE DATE:  
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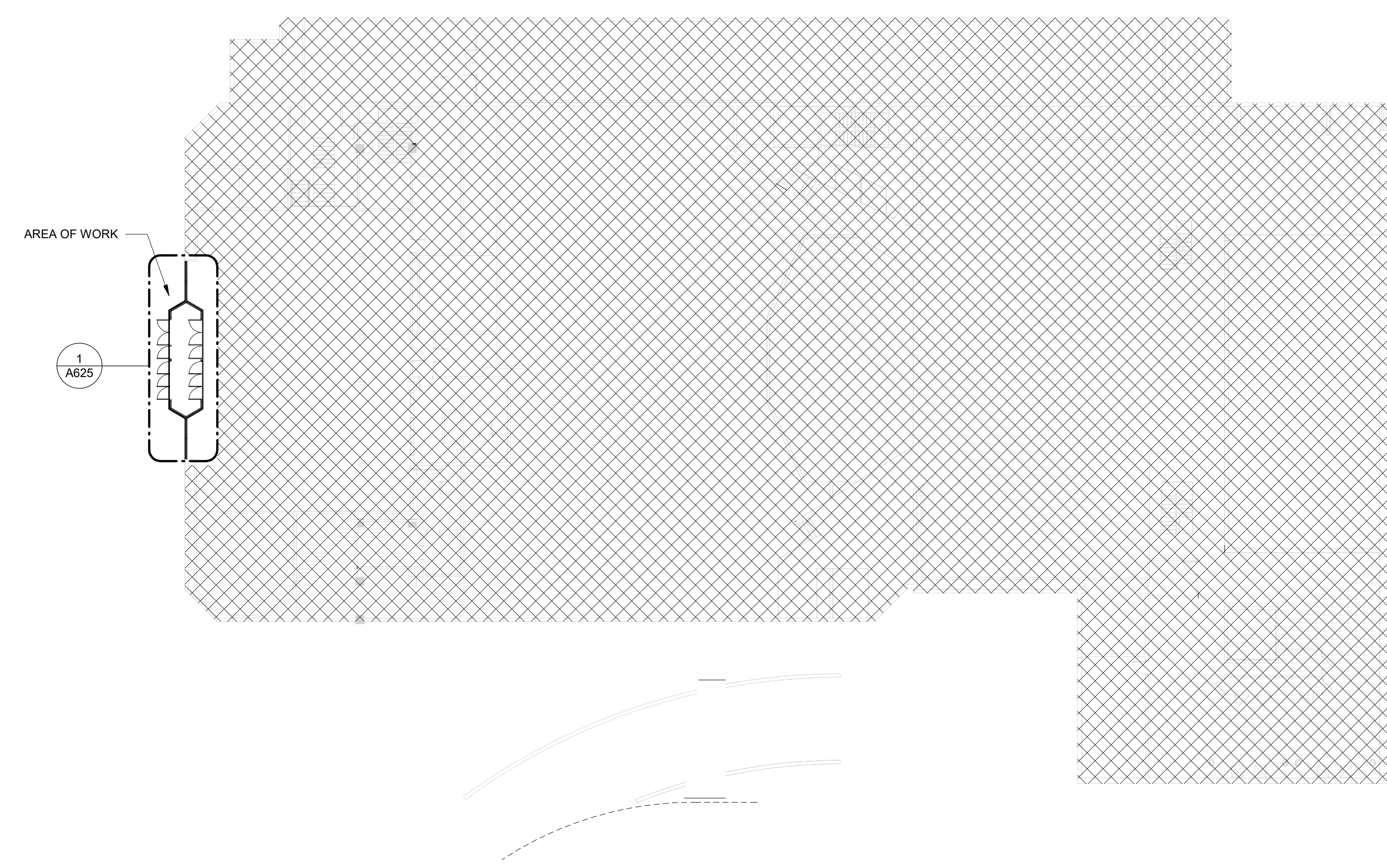
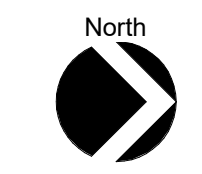
SHEET NUMBER:

**G002**

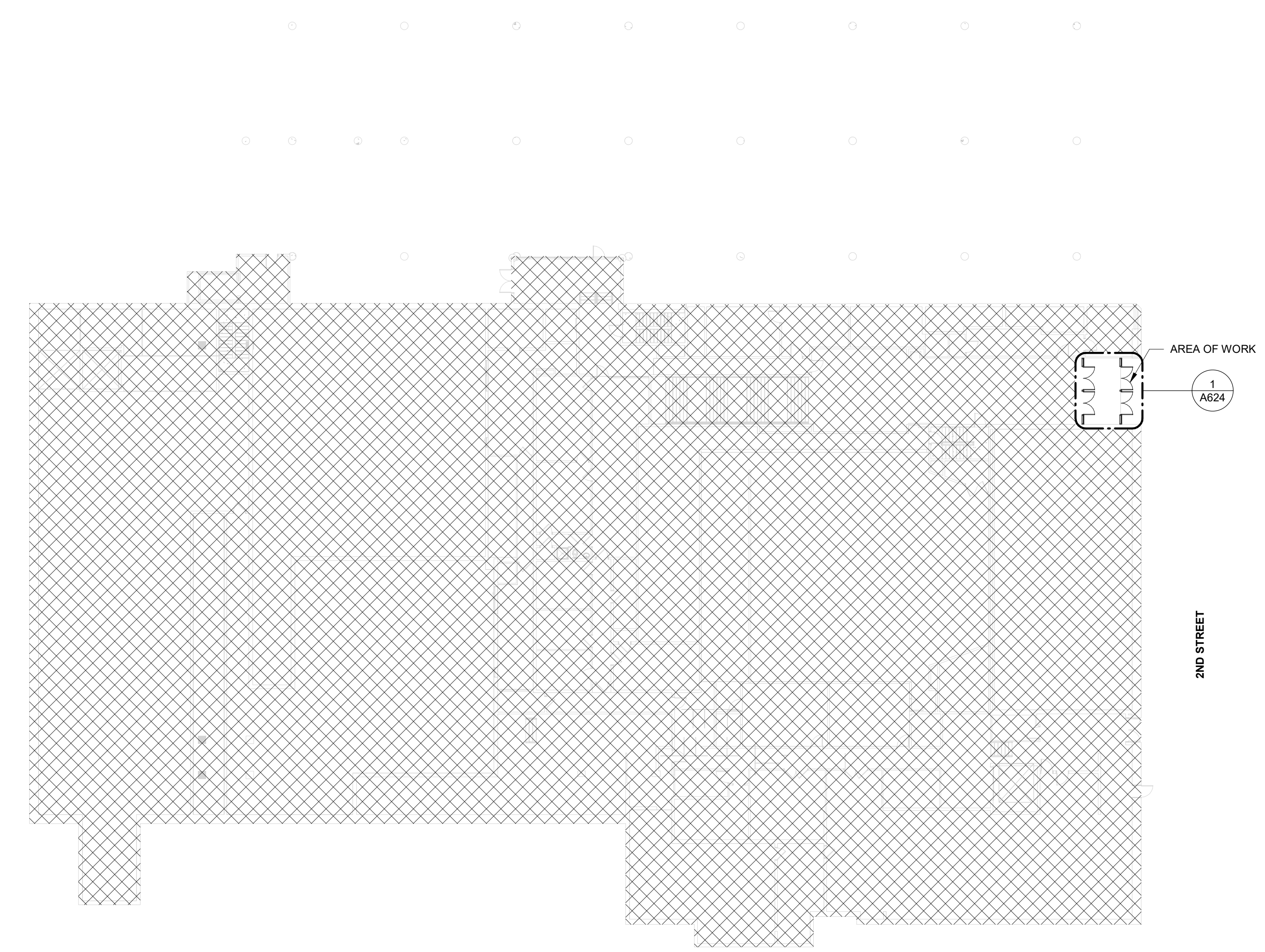
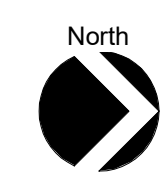
KEY PLAN



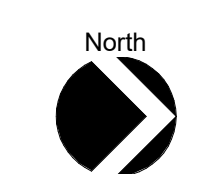
**3** 04 - ORCHESTRA FLOOR PLAN - KEYPLAN  
3/16" = 1'-0" 1 / A07



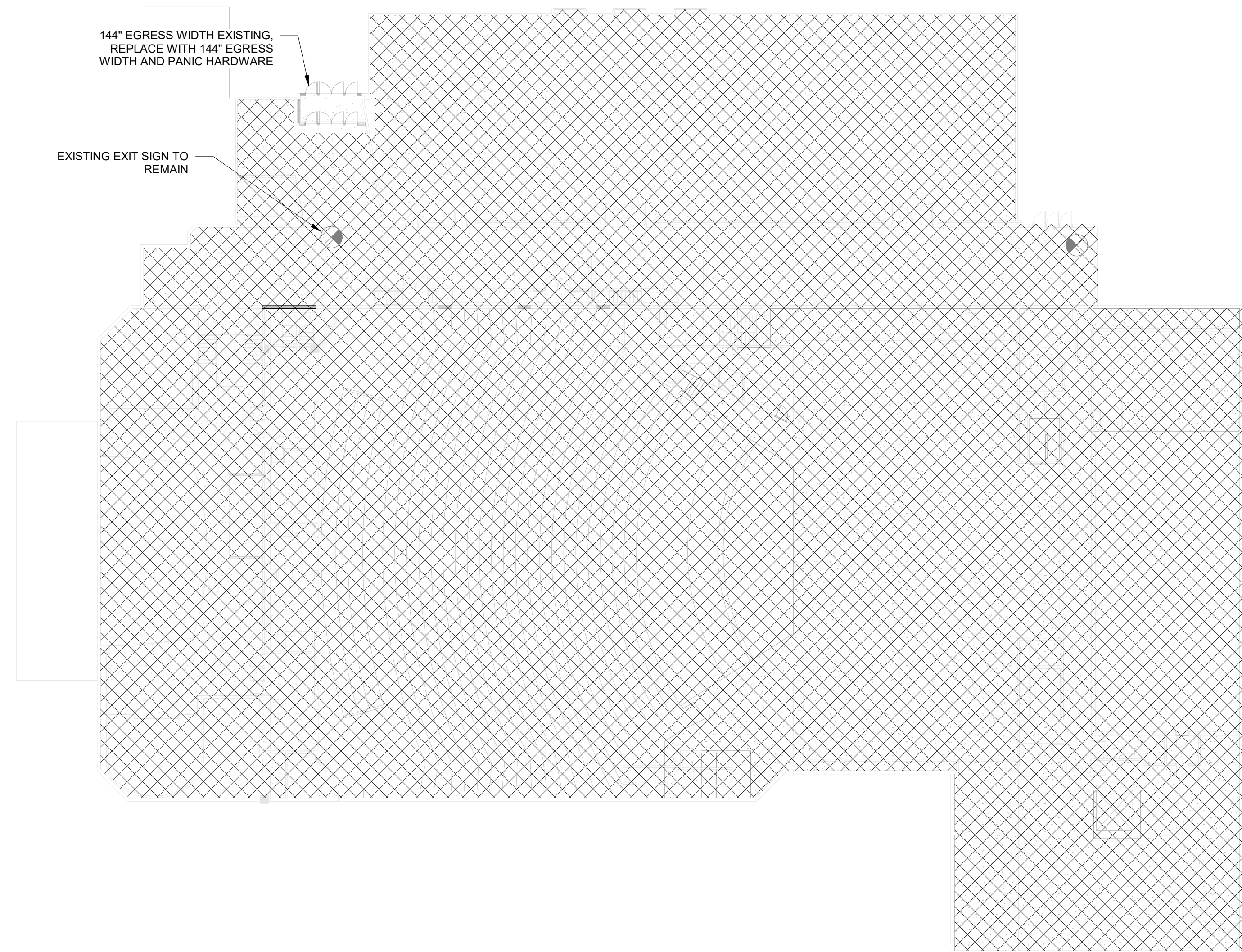
**2** 03 - 3RD STREET FLOOR PLAN - KEYPLAN  
3/16" = 1'-0" 1 / A07



**1** 02 - 2ND STREET  
3/16" = 1'-0" 1 / A07

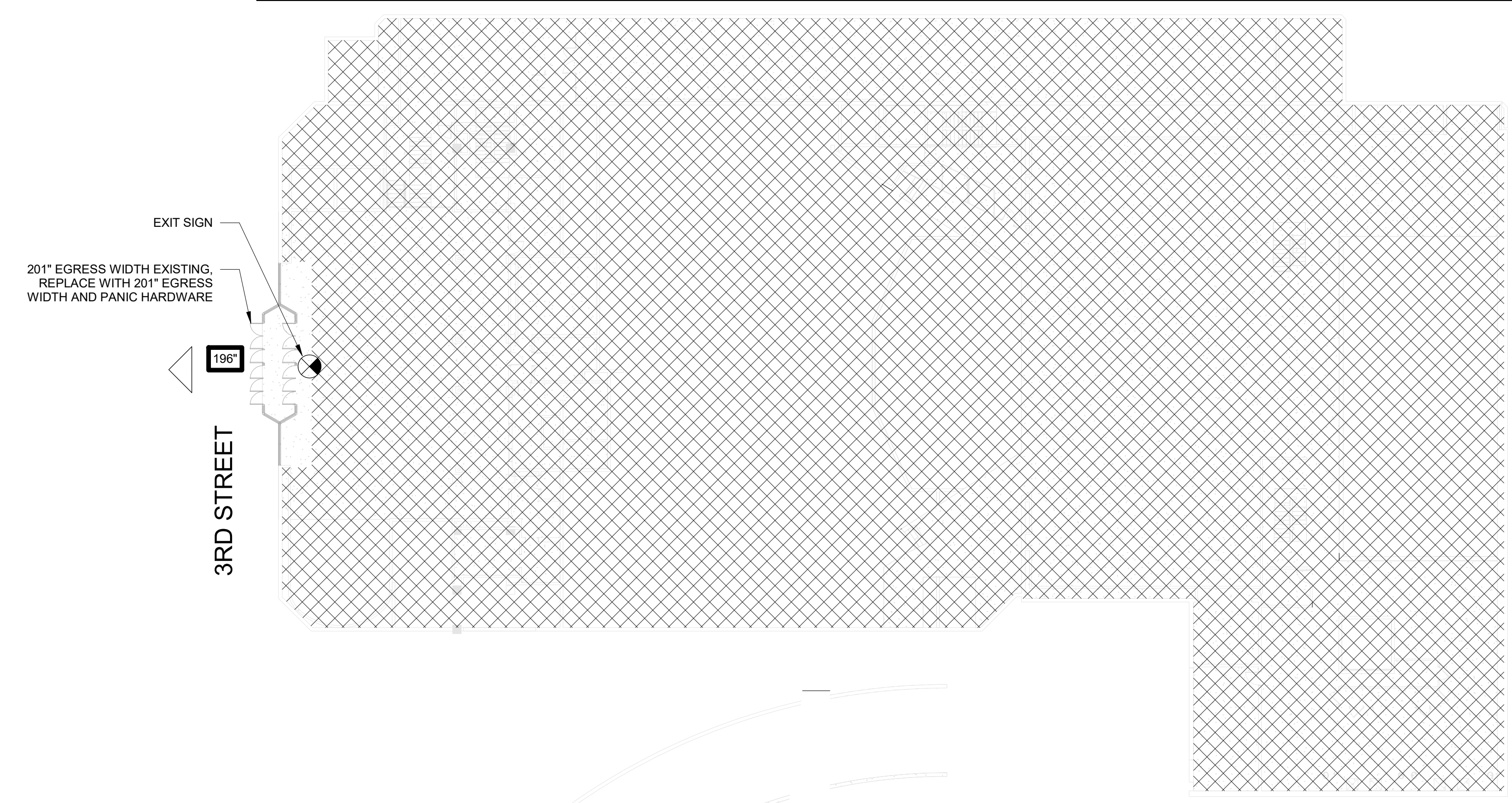


**GENERAL NOTE:**  
**CONSTRUCTION MANAGER TO PROVIDE 36-IN TEMPORARY EXIT DOOR WITH TEMPORARY EXIT SIGN DURING CONSTRUCTION ON EACH RENOVATED ENTRANCE WHEN THE THEATERS ARE NO IN USE FOR PERFORMANCES.**

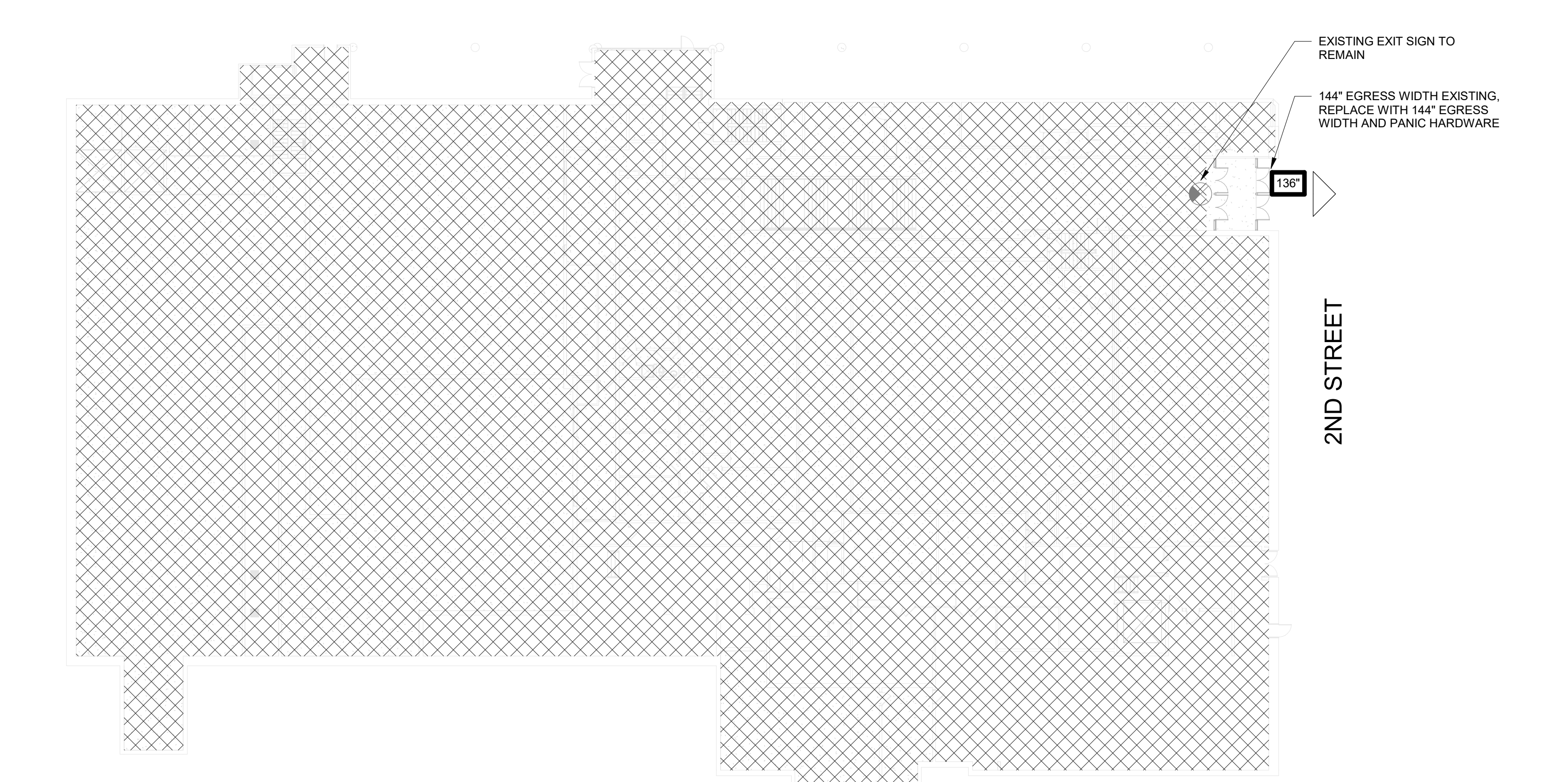


**3** ORCHESTRA FLOOR PLAN - LIFE SAFETY PLAN  
 3/64" = 1'-0" 5 / A624

**FIRE PROTECTION AT VESTIBULE - REFER TO FIRE PROTECTION LETTER DATED NOVEMBER 9, 2023. APPROVED BY FIRE MARSHAL, TULSA OKLAHOMA**



**2** 3RD STREET FLOOR PLAN - LIFE SAFETY PLAN  
 3/64" = 1'-0" 2 / A625



**1** 2nd STREET FLOOR PLAN - LIFE SAFETY PLAN  
 3/64" = 1'-0" 1 / A67

<b>AUTHORITY HAVING JURISDICTION</b>			
CITY OF TULSA			
<b>ADOPTED CODES</b>			
INTERNATIONAL BUILDING CODE®, 2018 EDITION INTERNATIONAL EXISTING BUILDING CODE®, 2018 EDITION NATIONAL ELECTRIC CODE®, 2014 EDITION 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, ICC A117.1, 2009 EDITION, AMERICAN NATIONAL STANDARDS INSTITUTE®			
<b>CODE STUDY</b>			
<b>BUILDING USE OR OCCUPANCY</b>			
NO CHANGES IN PRIMARY OVERALL BUILDING USE OR OCCUPANCY			
IEBC 101.4.2	BUILDING PREVIOUSLY OCCUPIED SHALL BE PERMITTED TO CONTINUE WITHOUT A CHANGE		
IEBC 403	LEVEL 1 ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE.		
IBC 302 / 305	PRIMARY BUILDING OCCUPANCY	ASSEMBLY A-1 (THEATER)	
	REPLACE EXISTING STOREFRONTS FOR NEW STOREFRONTS, NO CHANGES TO DOOR WIDTHS AND QUANTITY		
<b>BUILDING CONSTRUCTION</b>			
NO CHANGES TO BUILDING TYPE OF CONSTRUCTION			
IBC 602	CONSTRUCTION TYPE	ASSUME TO BE I-B FULLY SPRINKLERED	
<b>AUTOMATIC SPRINKLER SYSTEMS</b>			
	THRESHOLD (FIRE AREA, SF) BASED ON OCCUPANCY	SPRINKLER REQUIRED?	SPRINKLER PROVIDED?
IBC 903	NO CHANGES TO EXISTING SPRINKLER SYSTEM	YES	YES
<b>INTERIOR FINISHES</b>			
IEBC 702.1	NEWLY INSTALLED CEILING FINISHES SHALL COMPLY WITH CHAPTER 8 ON THE INTERNATIONAL BUILDING CODE.		
IEBC 702.2	NEWLY INSTALLED INTERIOR FLOOR FINISH, INCLUDING NEW RECESSED FLOOR MAT AND PORCELAIN TILE USED AS AN INTERIOR FLOOR FINISH MATERIAL, SHALL COMPLY WITH SECTION 804 OF THE INTERNATIONAL BUILDING CODE. IT SHALL MEET THE REQUIREMENTS OF A CLASS II MATERIAL (804.2)		
IBC TABLE 803.13	CEILING FINISH REQUIREMENT BY OCCUPANCY.		ROOMS AND ENCLOSE SPACES
	GROUP	INT. EXIT STAIRWAYS AND RAMP AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMP
	ASSEMBLY A-3 (SPRINKLERED)	B	B C
<b>OCCUPANT LOAD CALCULATIONS</b>			
NO CHANGES TO OCCUPANT LOAD.			
<b>MEANS OF EGRESS</b>			
NO CHANGES TO MEANS OF EGRESS			
IEBC 604	REPAIRS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FOR THE MEANS OF EGRESS.		
<b>EXIT ACCESS</b>			
NO CHANGES TO EXIT ACCESS AND TRAVEL DISTANCE. EXITS REMAIN AT THE SAME LOCATIONS.			
<b>PLUMBING FIXTURE CALCULATION</b>			
NO CHANGES TO PLUMBING FIXTURES.			
<b>FIRE EXTINGUISHERS</b>			
NO CHANGES TO FIRE EXTINGUISHERS LOCATIONS OR AMOUNT.			
<b>GENERAL NOTES</b>			
1. BUILDING SHALL BE FULLY SPRINKLERED 2. BUILDING SHALL HAVE FULL FIRE ALARM COVERAGE 3. ALL DOORS IN 1 HOUR WALLS SHALL BE RATED 45 MINUTES 4. PROVIDE EXIT SIGNAGE PER CODE. 5. PROVIDE EMERGENCY LIGHTING, NOT LESS THAN 1 FOOT CANDLE AVERAGE, PER CODE 6. ALL COMBUSTIBLE MATERIALS SHALL MEET THE REQUIREMENTS OF IBC 803 & 805 7. ALL INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH IBC 803 & IFC 804 8. ALL INTERIOR FLOORING SHALL MEET THE REQUIREMENTS OF A CLASS II MATERIAL 9. TEMPERED GLASS SHALL BE PROVIDED WITHIN 2 FEET OF ALL EXITS 10. PROVIDE HANDICAP SIGNAGE THROUGHOUT AS PER IBC 111 11. CONSTRUCTION MANAGER TO PROVIDE 36-IN TEMPORARY EXIT DOOR WITH TEMPORARY EXIT SIGN DURING CONSTRUCTION ON EACH RENOVATED ENTRANCE WHEN THE THEATERS ARE NO IN USE FOR PERFORMANCES.			

**LEGEND - LIFE SAFETY**

	1 WAY EXIT SIGN, 90 MIN BATTERY BACKUP
	EXISTING 1 WAY EXIT SIGN
	EXIT ACCESS
	EGRESS WIDTH PROVIDED



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**AND No. 2**

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**202331.00**

**CONSULTANT:**

**REVISIONS:**

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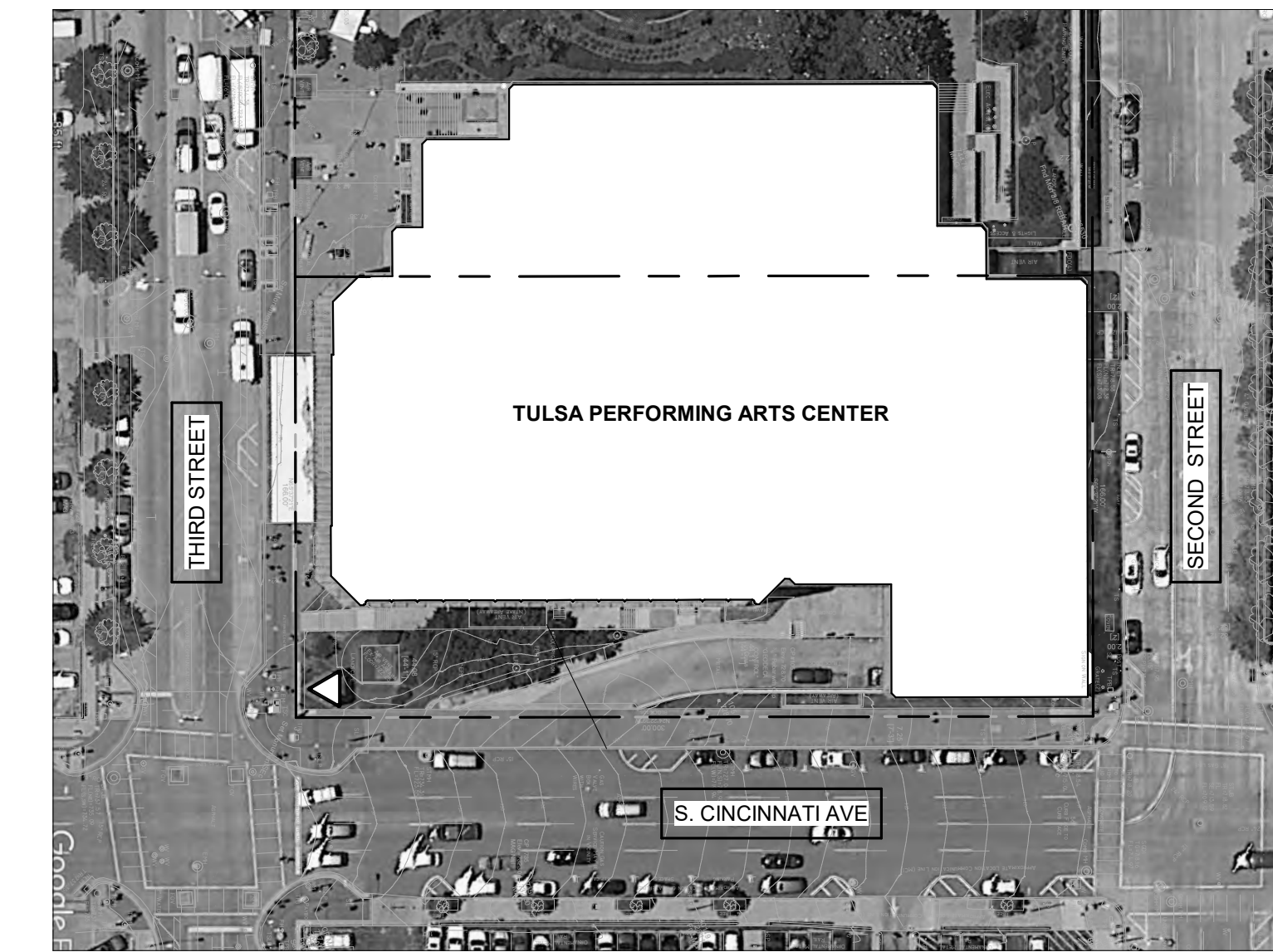
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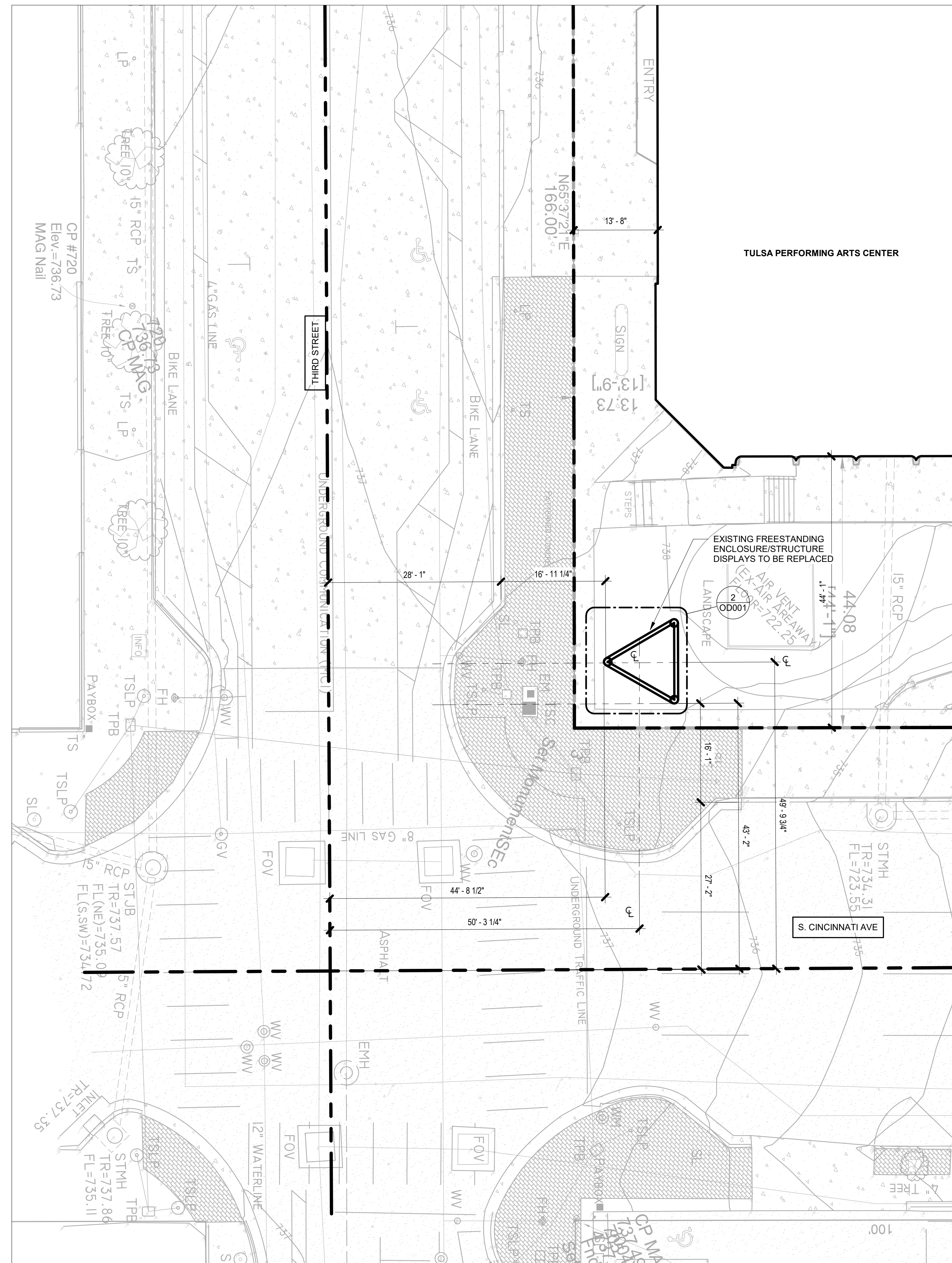
**SHEET NUMBER:**  
**G101**  
**CODE REVIEW MATRIX**

**SHEET NOTES - SITE PLAN**

1. ANY DAMAGED SIDEWALKS OR PAVING DUE TO CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH ORIGINAL CONDITION.



**2 KEY PLAN**  
1" = 60'-0"



**1 SITE PLAN**  
3/32" = 1'-0"



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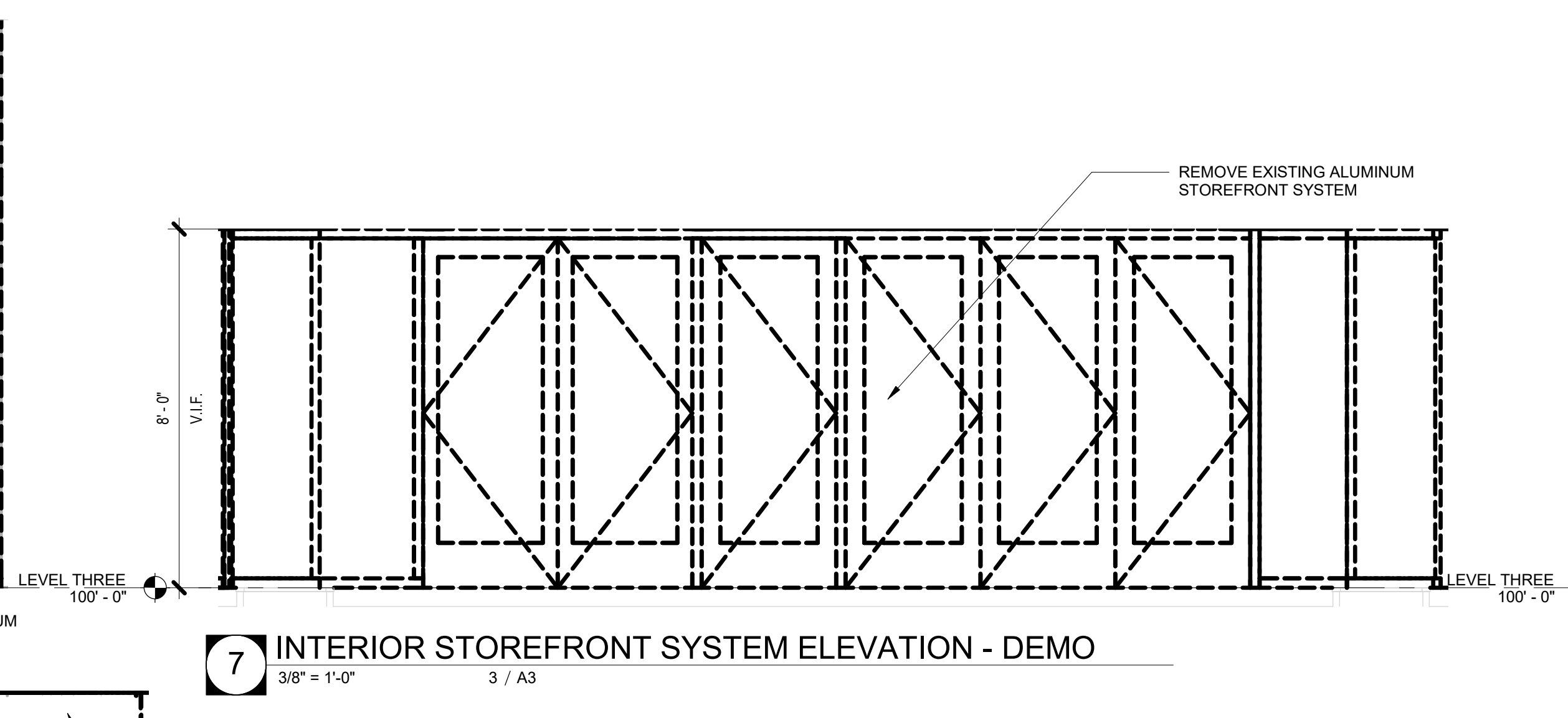
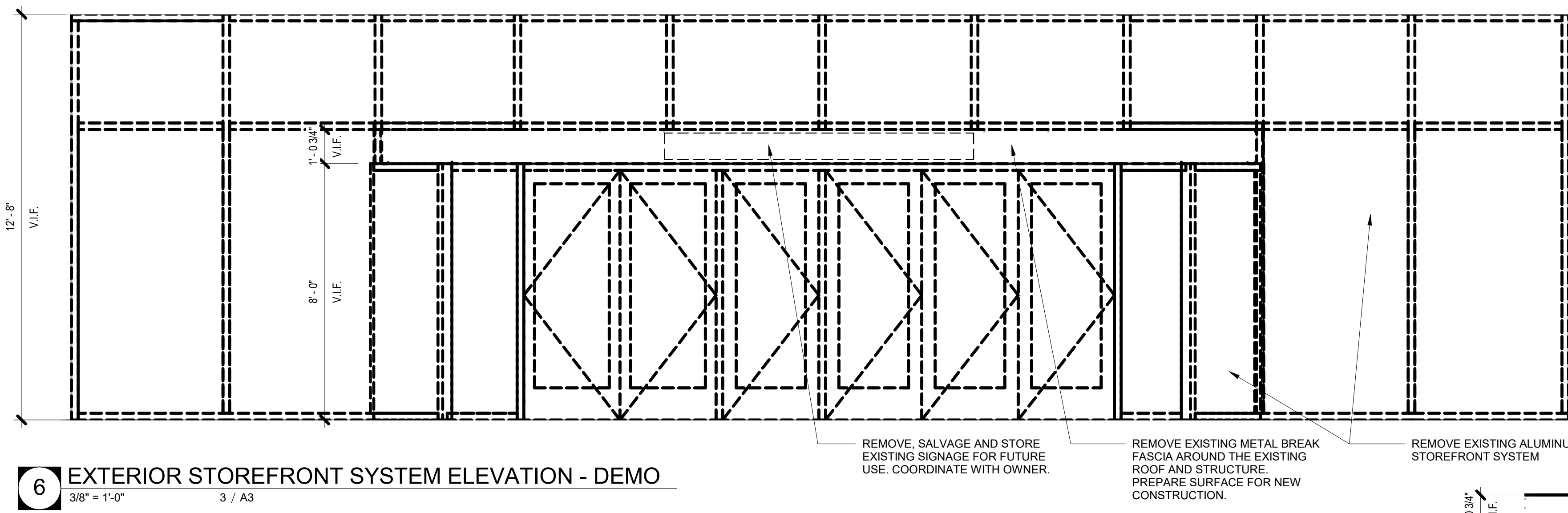
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2	PERMIT SET EXT. SIGNS	01.17.2024
3	ISSUE FOR BID	01.24.2024

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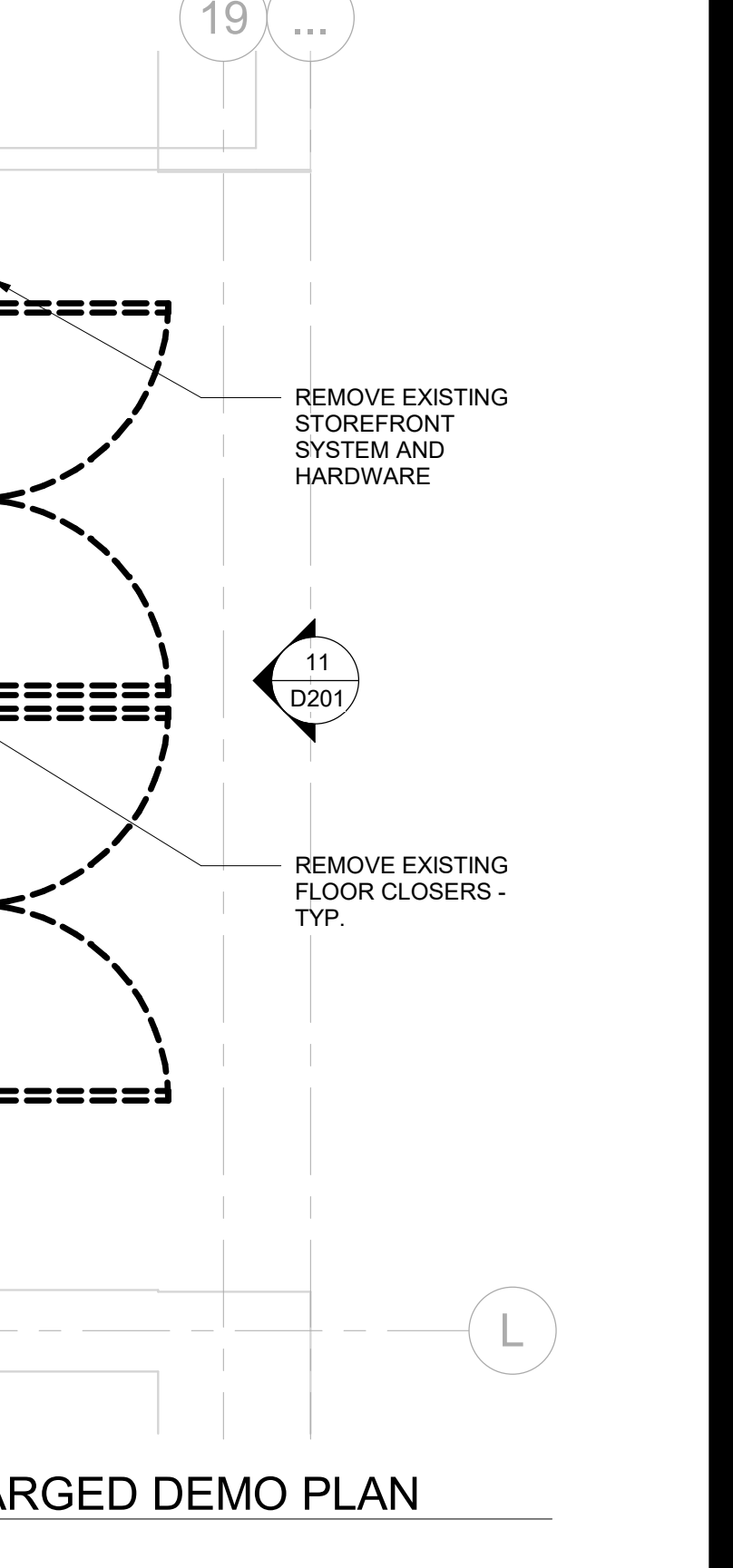
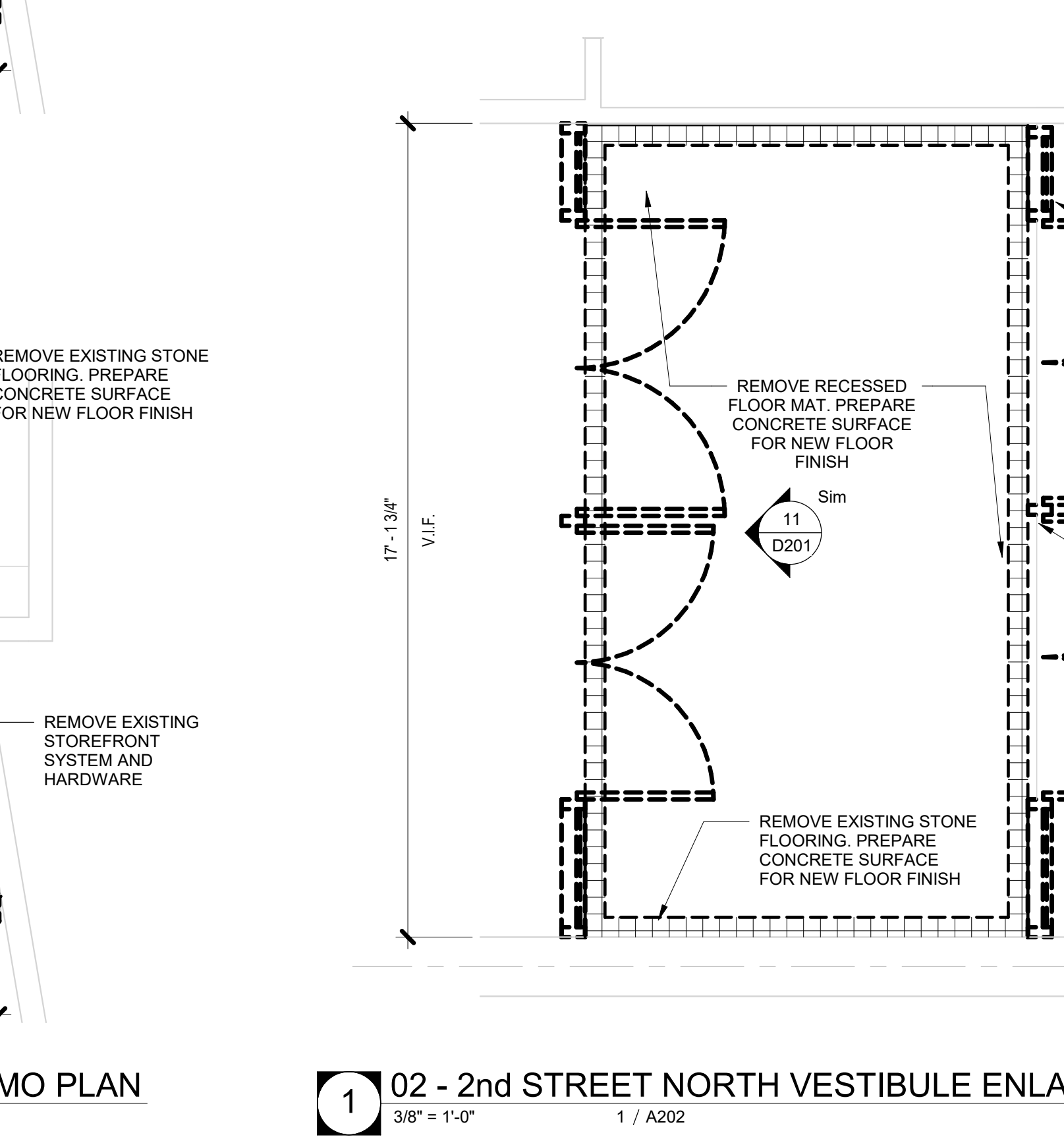
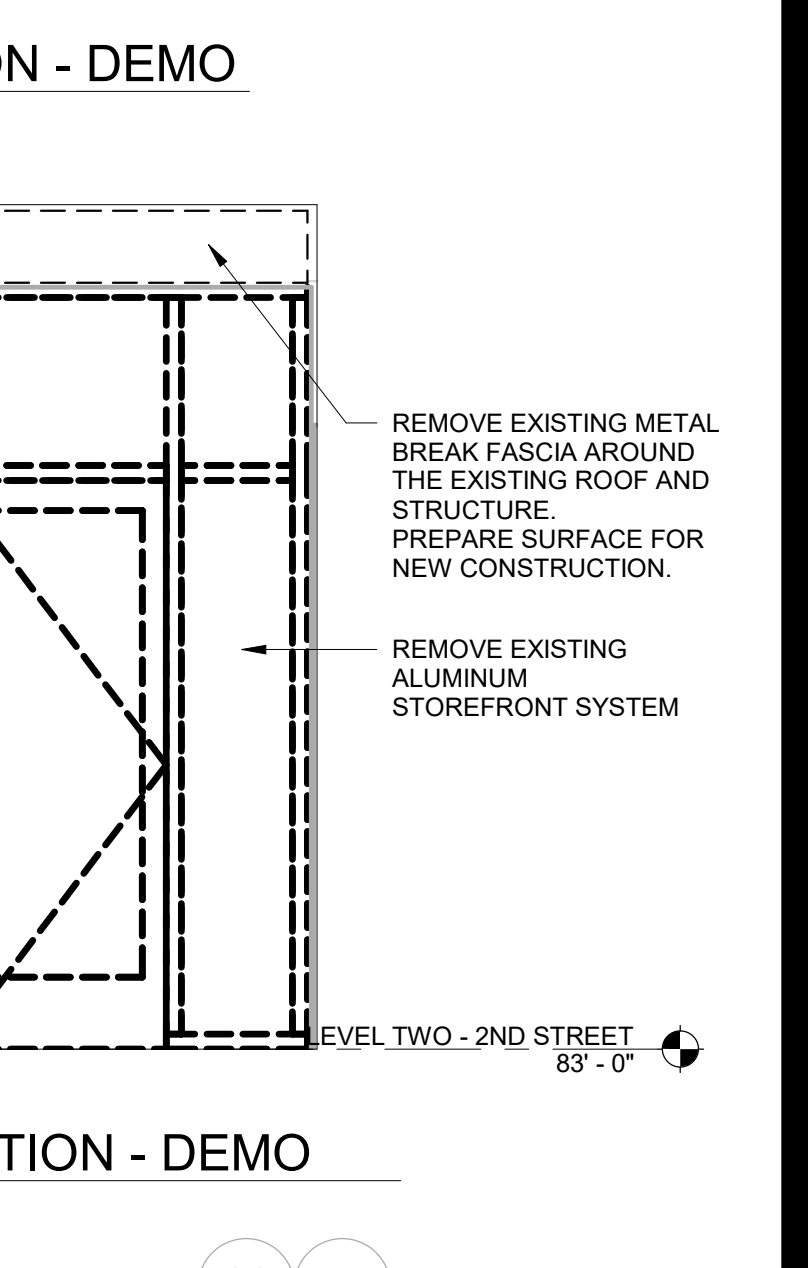
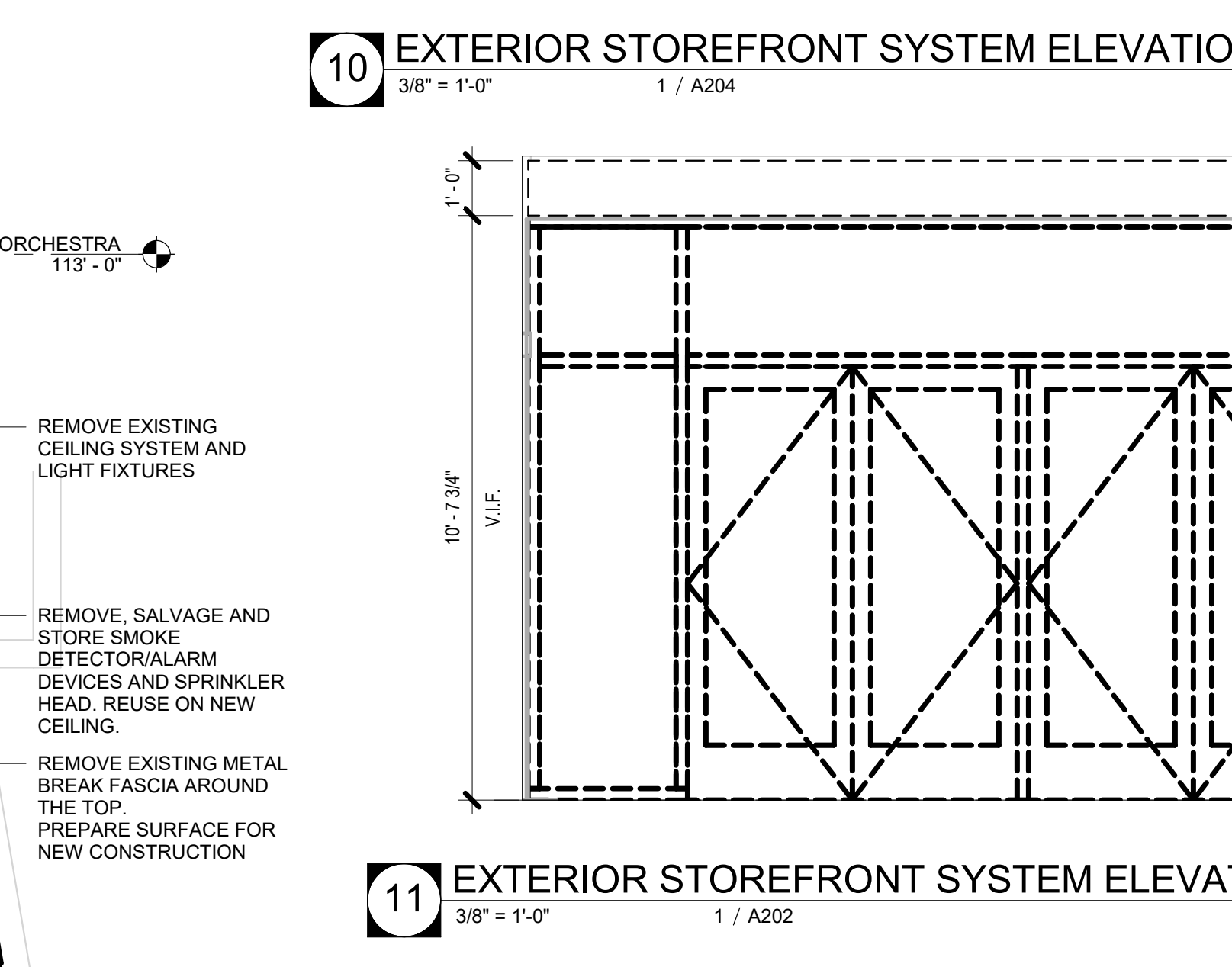
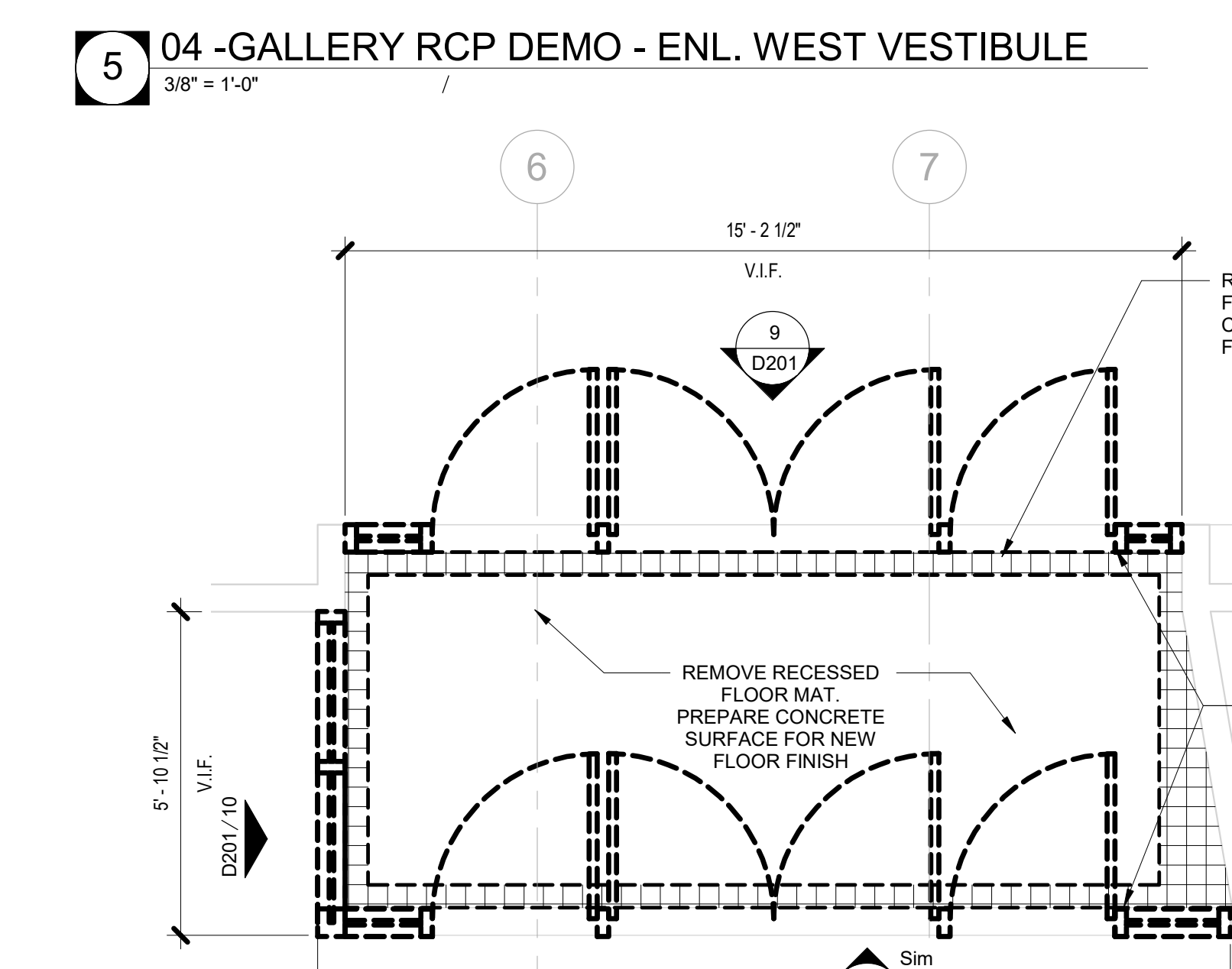
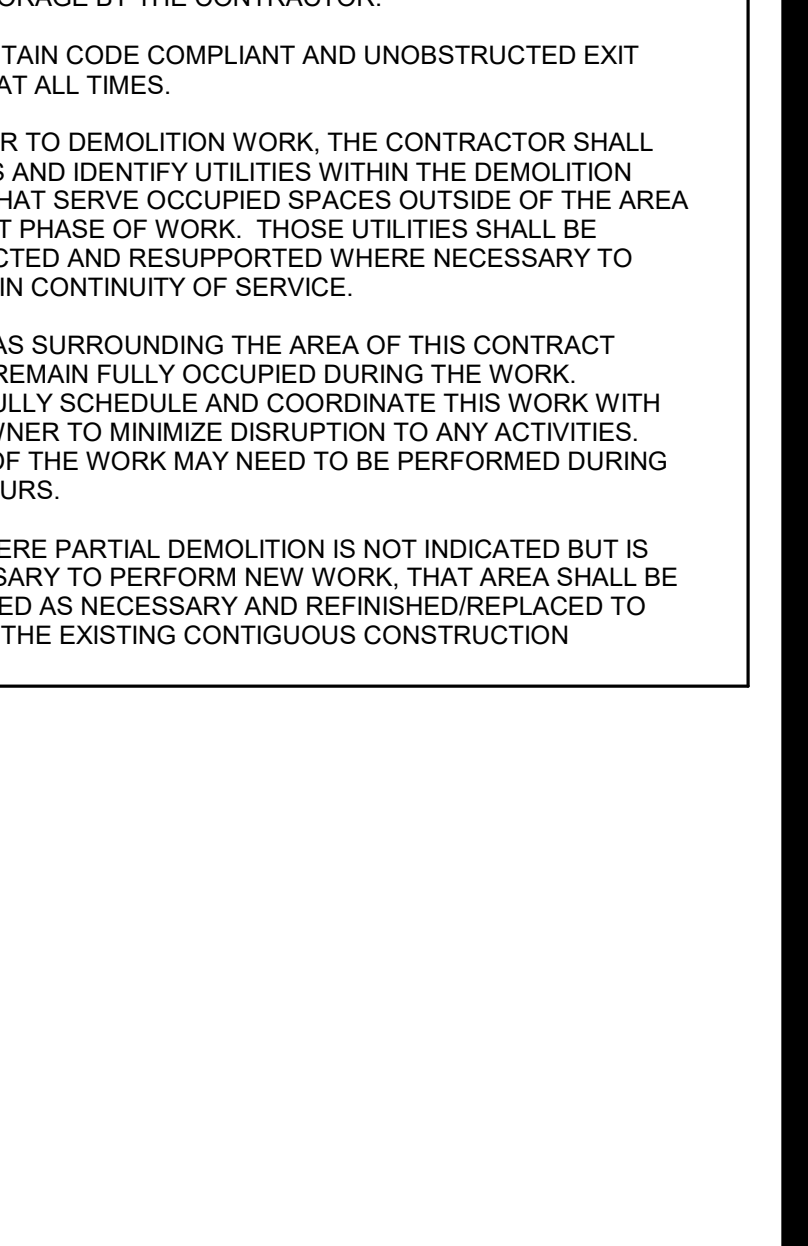
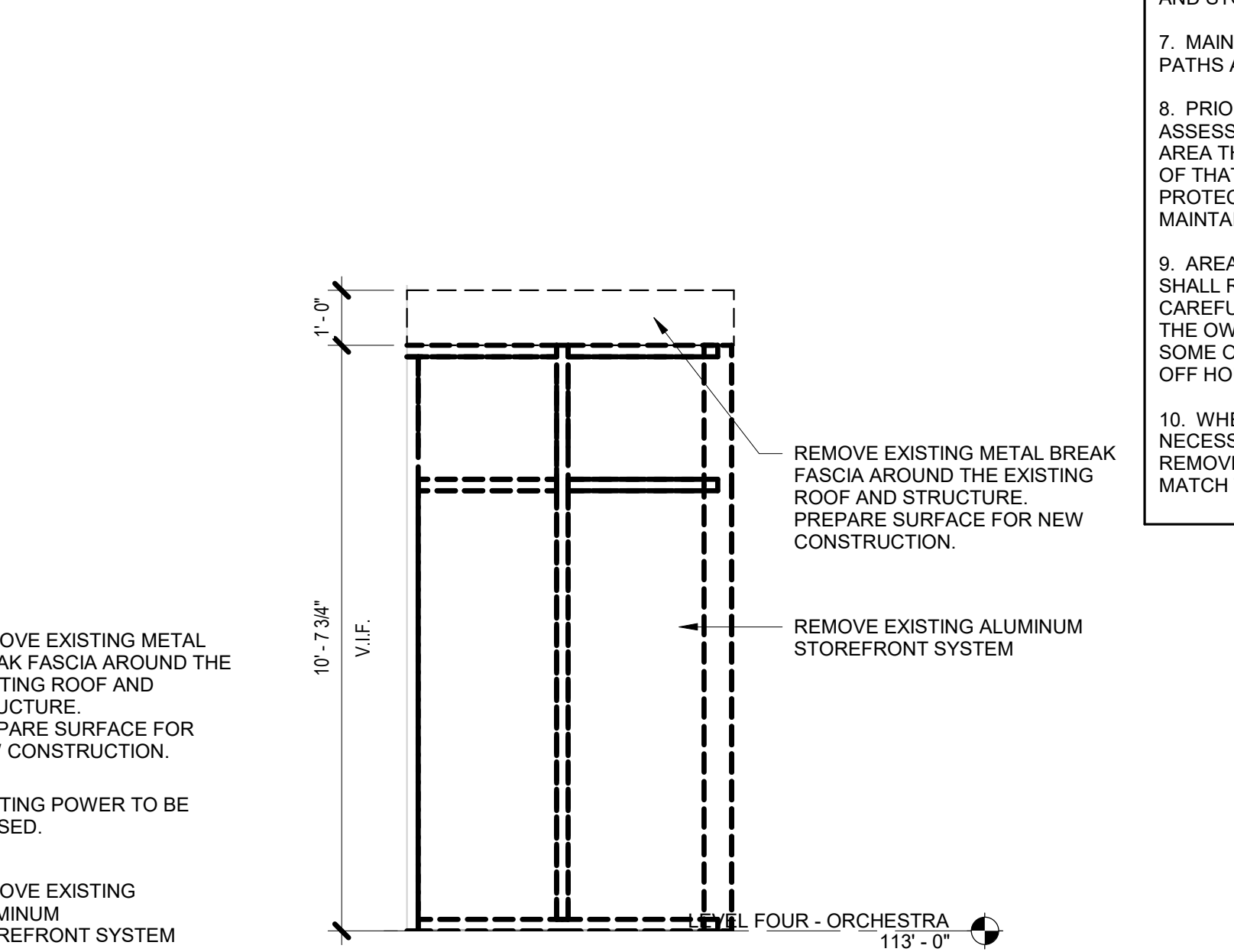
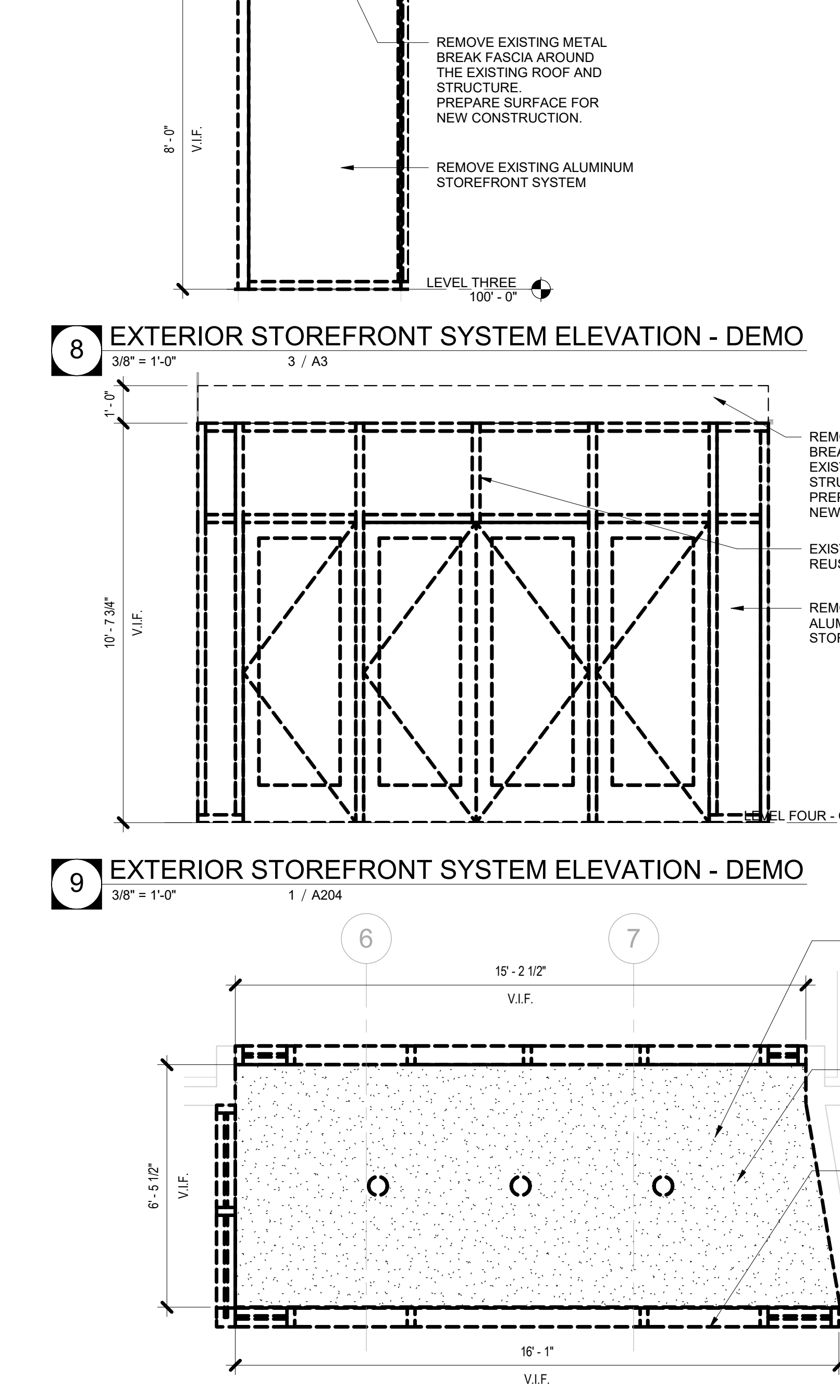
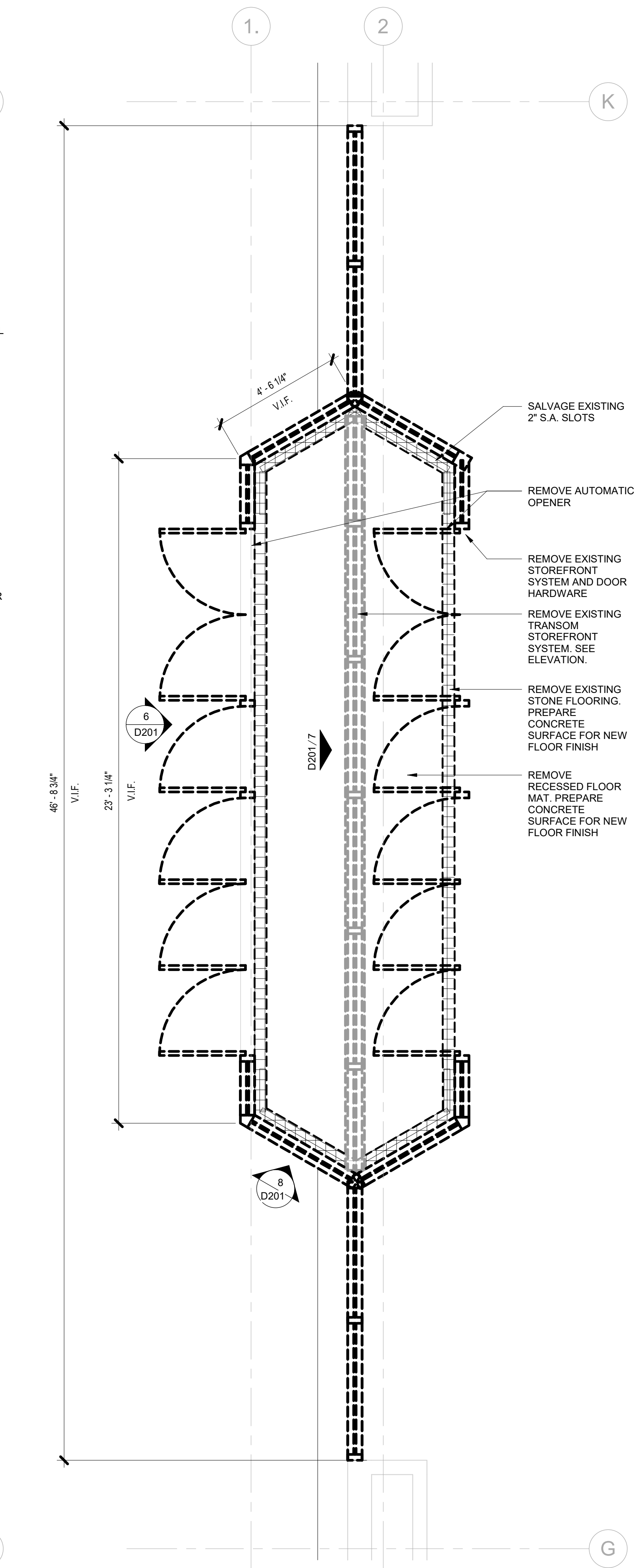
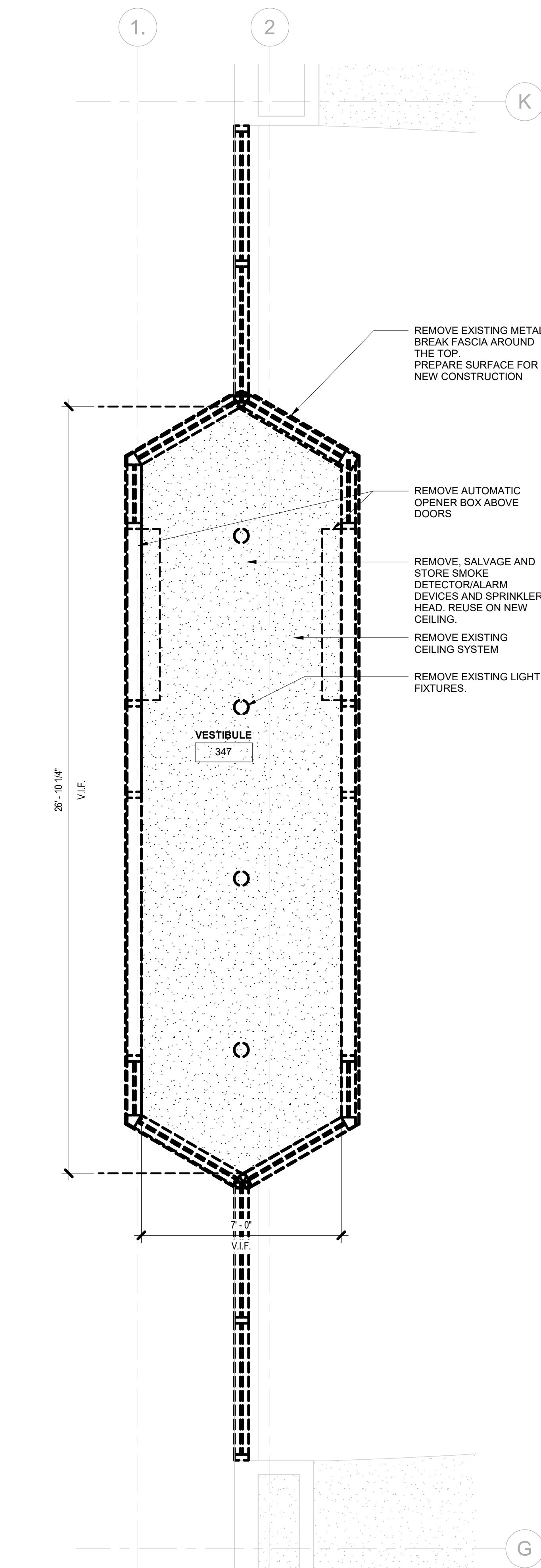
01.24.2024

**ISSUE DATE:**  
**01.24.2024**

**SHEET NUMBER:**  
**A101**  
**ARCHITECTURAL**  
**SITEPLAN**



- SHEET NOTES - DEMOLITION**
1. THE TOTAL AMOUNT OF DEMOLITION REQUIRED FOR THE PROJECT IS NOT INDICATED ON THE DEMOLITION PLANS. THEY ARE INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THEY INDICATE THE GENERAL EXTENT OF THE REMOVAL WORK REQUIRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY INSPECT THE BUILDING AND VERIFY ALL CONDITIONS AND FULL EXTENT OF DEMOLITION PRIOR TO SUBMITTING BID.
  2. THE SUBCONTRACTORS FOR PLUMBING, ELECTRICAL, HVAC AND FIRE PROTECTION ARE RESPONSIBLE FOR ESTABLISHING THE SCOPE OF DEMOLITION REQUIRED TO PERFORM THE WORK FOR THEIR RESPECTIVE TRADE. DEMOLITION DRAWINGS FOR THESE DISCIPLINES ARE INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.
  3. MAINTAIN BUILDING IN STRUCTURALLY SOUND CONDITION AT ALL TIMES. DO NOT REMOVE ANY PORTION OF THE BUILDING STRUCTURE INCLUDING COLUMNS, LOAD BEARING WALLS, BEAMS FLOOR CONSTRUCTION, PERIMETER WALLS OR FIREPROOFING OF STRUCTURAL ELEMENTS UNLESS SPECIFICALLY NOTED.
  4. PROTECT ALL FINISHES AND COMPONENTS OF BUILDING WHICH ARE TO REMAIN. ANY DAMAGED MATERIAL, EQUIPMENT OR ITEMS TO REMAIN SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING CONSTRUCTION, AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
  5. VERIFY CONCEALED CONSTRUCTION CONDITIONS PRIOR TO REMOVAL OF ANY ITEMS. CAREFULLY ASSESS EACH ITEM TO BE REMOVED FOR DETRIMENTAL RESULTS IF REMOVED. PERFORM EXPLORATORY DEMOLITION TO DETERMINE METHODS OF ATTACHMENTS, UTILITY INTERFACES, INTERCONNECTIONS AND OTHER CONCEALED CONDITIONS PRIOR TO DEMOLITION.
  6. ITEMS DESIGNATED TO BE REMOVED AND SALVAGED SHALL BE DELIVERED TO A SAFE REMOTE LOCATION FOR RETROFITTING OR A SAFE LOCATION ON SITE FOR CLEANING AND STORAGE BY THE CONTRACTOR.
  7. MAINTAIN CODE COMPLIANT AND UNOBSTRUCTED EXIT PATHS AT ALL TIMES.
  8. PRIOR TO DEMOLITION WORK, THE CONTRACTOR SHALL ASSESS AND IDENTIFY UTILITIES WITHIN THE DEMOLITION AREA THAT SERVE OCCUPIED SPACES OUTSIDE OF THE AREA OF THAT PHASE OF WORK. THOSE UTILITIES SHALL BE PROTECTED AND RESUPPORTED WHERE NECESSARY TO MAINTAIN CONTINUITY OF SERVICE.
  9. AREAS SURROUNDING THE AREA OF THIS CONTRACT SHALL REMAIN FULLY OCCUPIED DURING THE WORK. CAREFULLY SCHEDULE AND COORDINATE THIS WORK WITH THE OWNER TO MINIMIZE DISRUPTION TO ANY ACTIVITIES. SOME OF THE WORK MAY NEED TO BE PERFORMED DURING OFF HOURS.
  10. WHERE PARTIAL DEMOLITION IS NOT INDICATED BUT IS NECESSARY TO PERFORM NEW WORK, THAT AREA SHALL BE REMOVED AS NECESSARY AND REFINISHED/REPLACED TO MATCH THE EXISTING CONTIGUOUS CONSTRUCTION.



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**SHEET NUMBER:**  
**D201**

**DEMOLITION FLOOR PLAN**

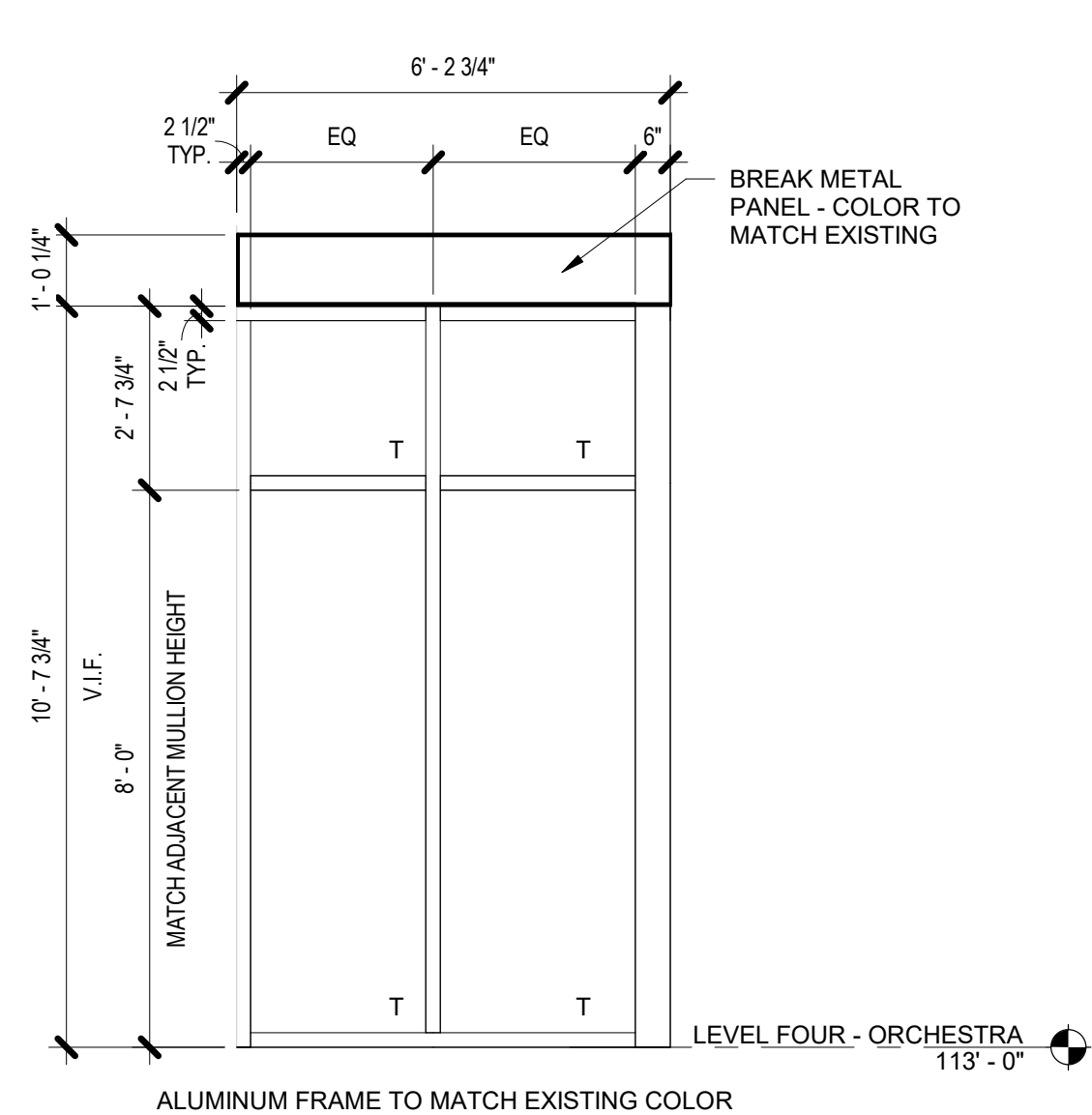
**SHEET NOTES - GLAZING TYPES**

1. NOT ALL GLAZING IN THE PROJECT IS REPRESENTED IN THESE GLAZING TYPE SHEETS. REFERENCE PLANS, ELEVATIONS, SECTIONS, AND DOOR FRAME SCHEDULE FOR ALL GLAZING IN PROJECT.
2. ALL DIMENSIONS MUST BE VERIFIED IN FIELD PRIOR TO FABRICATION.
3. TEMPERED GLASS SHALL BE PROVIDED WITHIN 2 FEET OF ALL EXITS, OR WHERE NOTED.  
T = TEMPERED SAFETY GLASS

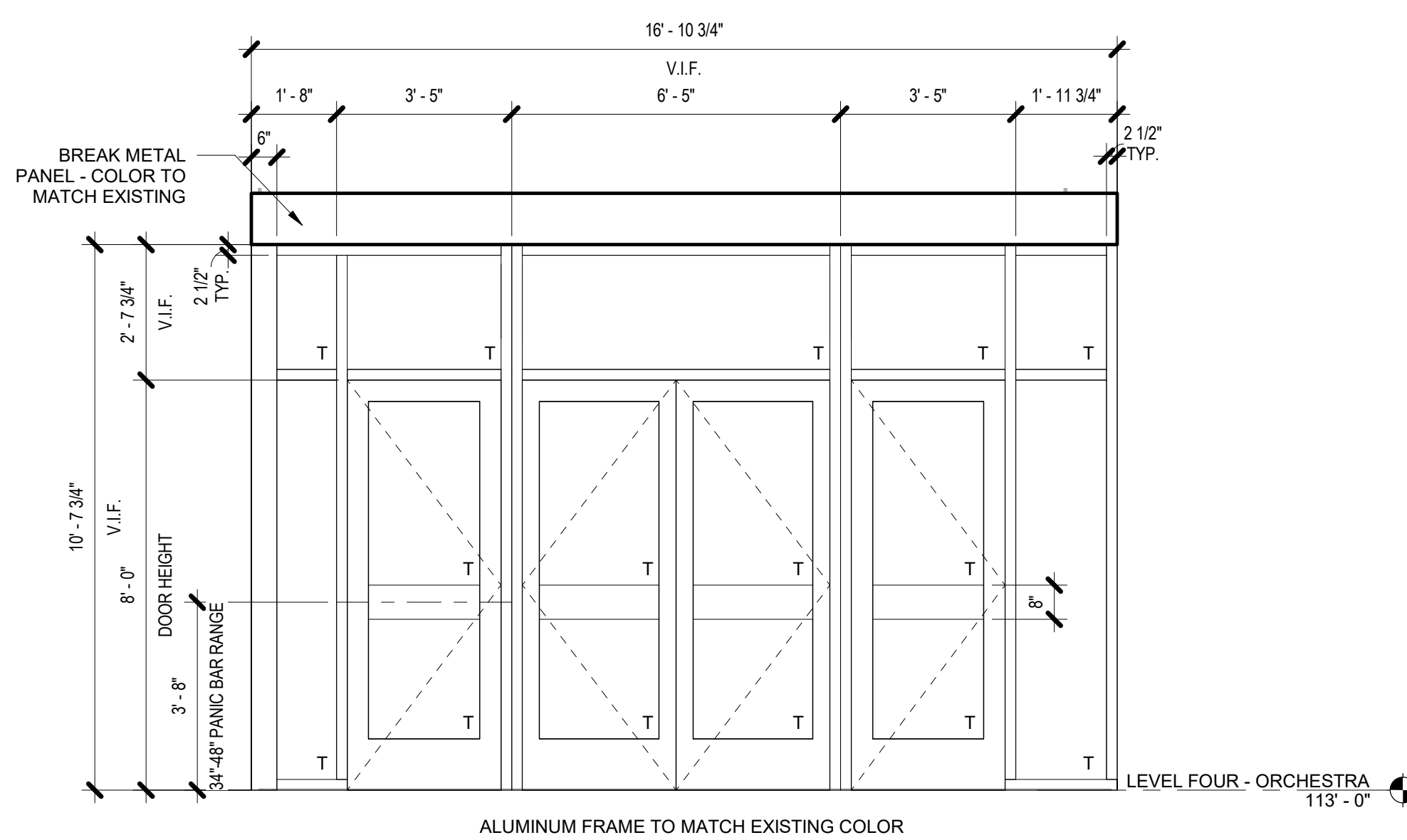


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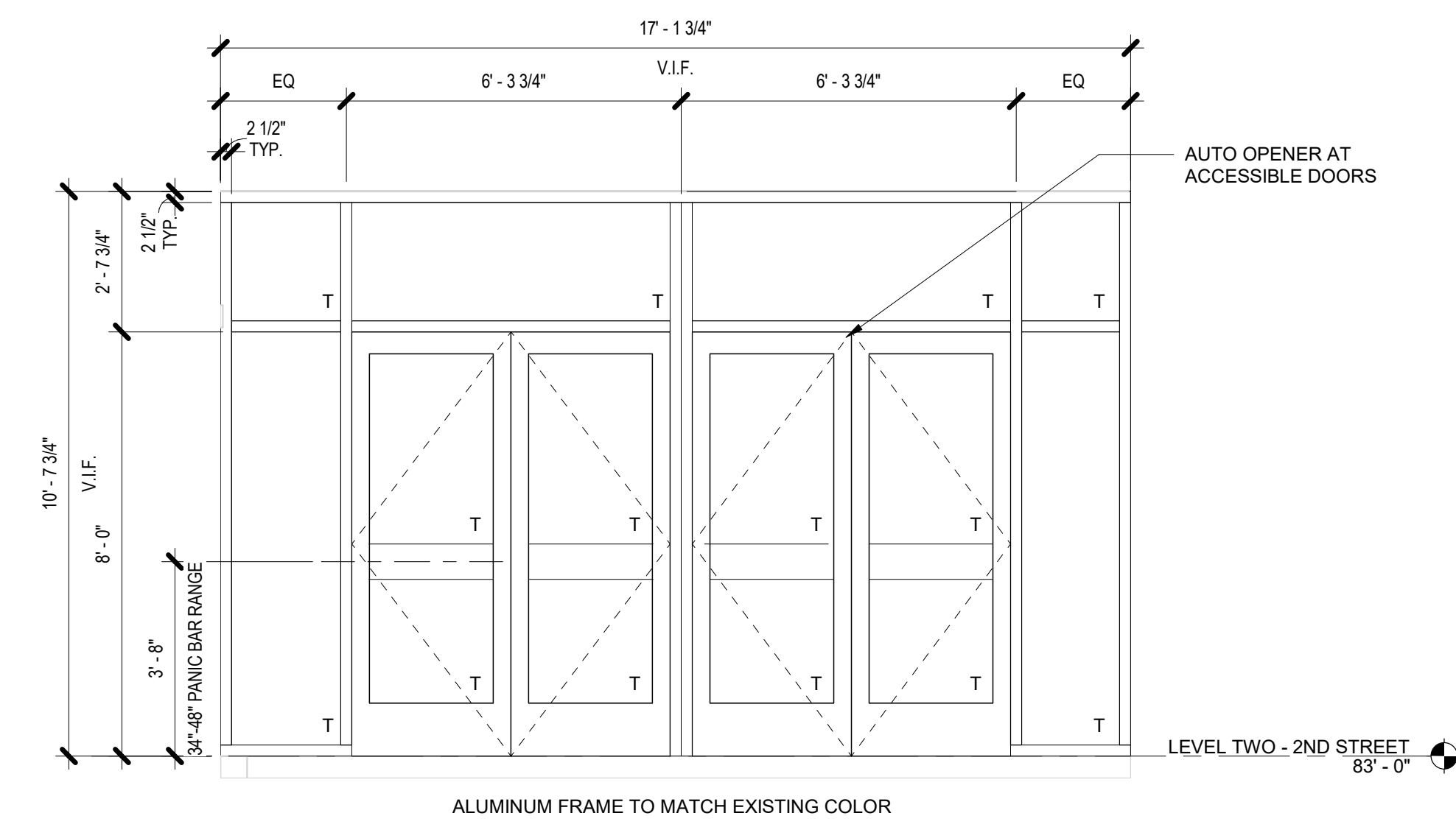
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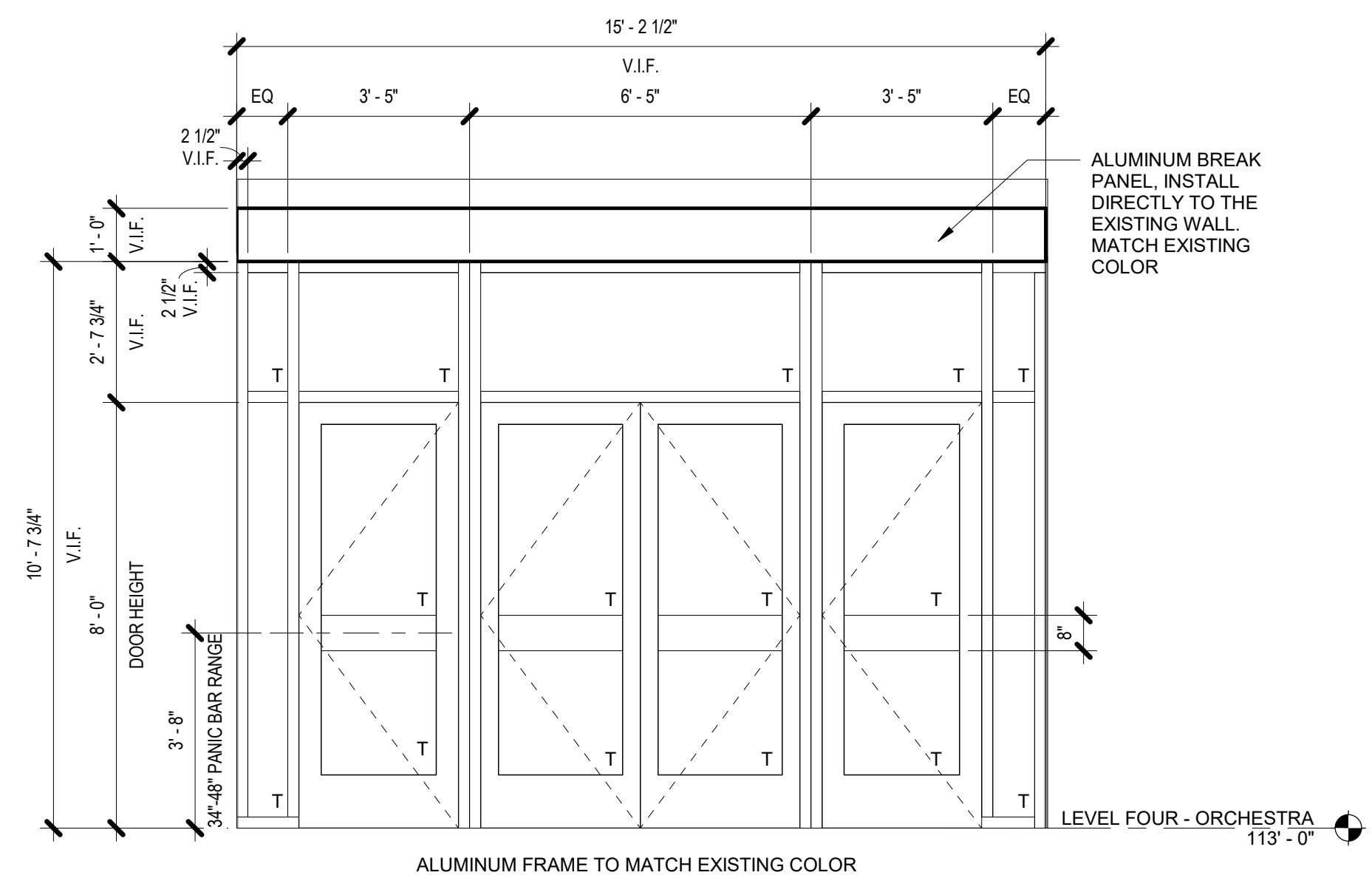
**8** INTERIOR STOREFRONT SYSTEM 2 DOOR ELEVATION  
3/8" = 1'-0" 2 / A624



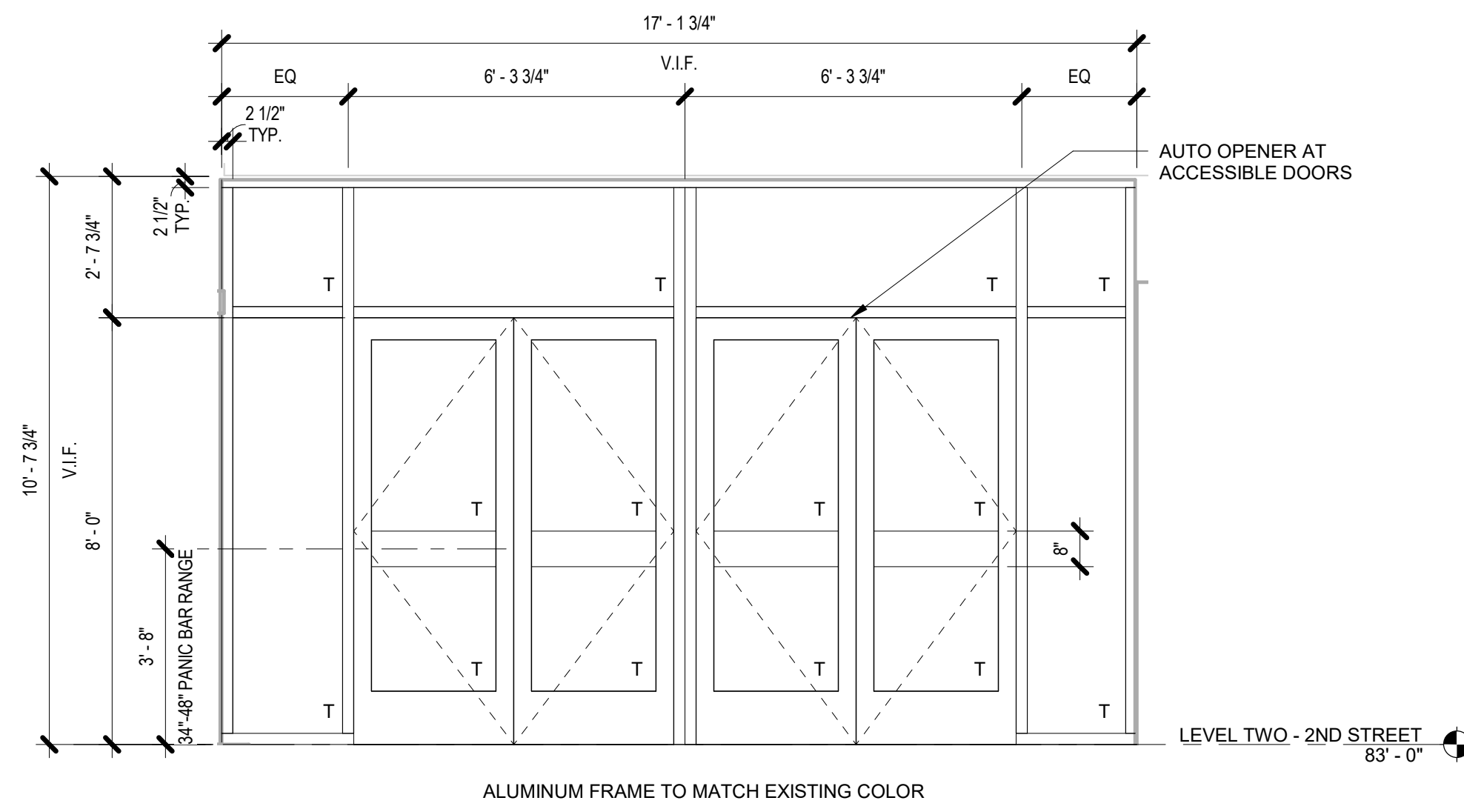
**7** INTERIOR STOREFRONT SYSTEM 2 DOOR ELEVATION  
3/8" = 1'-0" 2 / A624



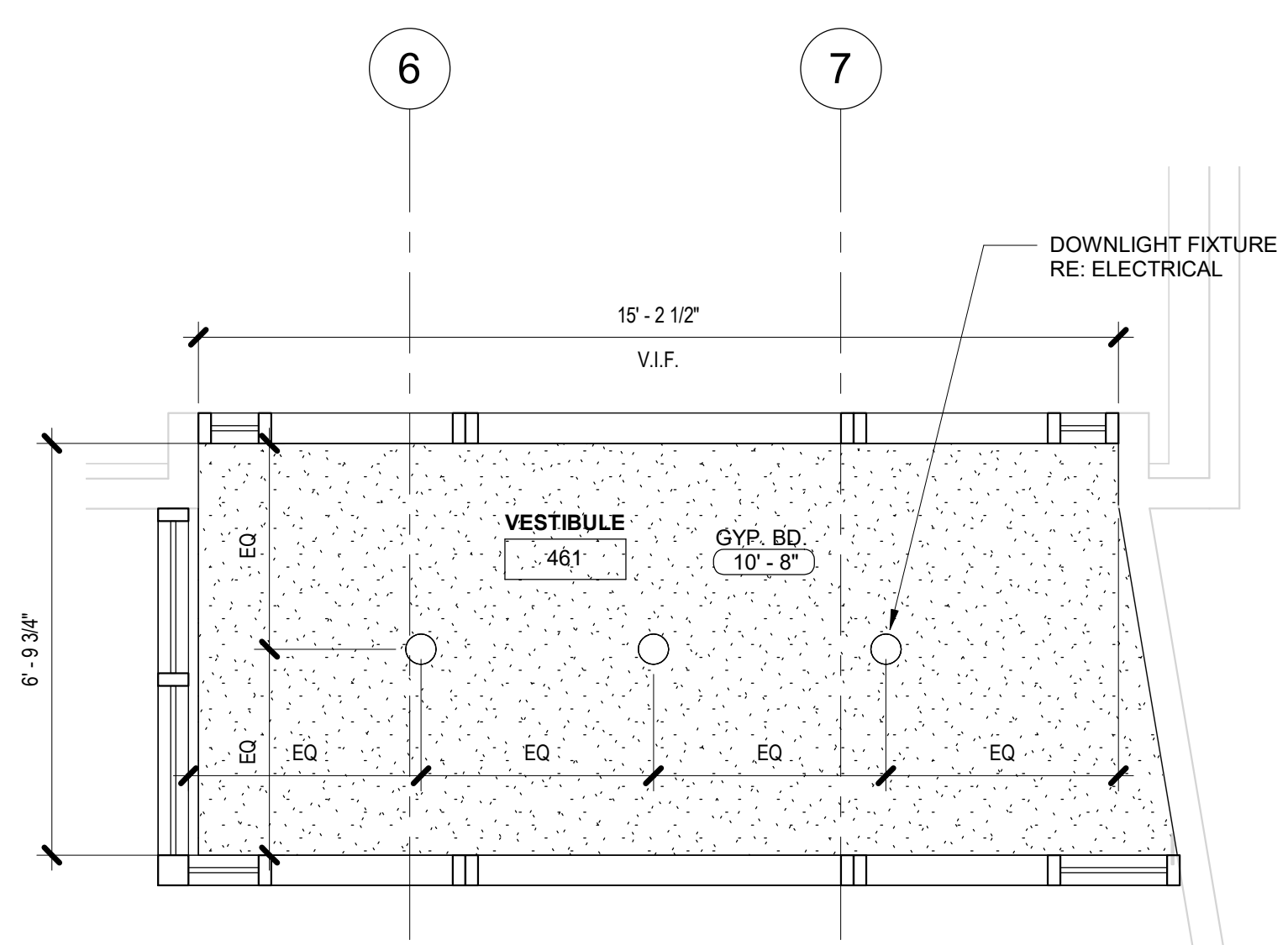
**6** INTERIOR STOREFRONT SYSTEM 2 ELEVATION  
3/8" = 1'-0" 1 / A624



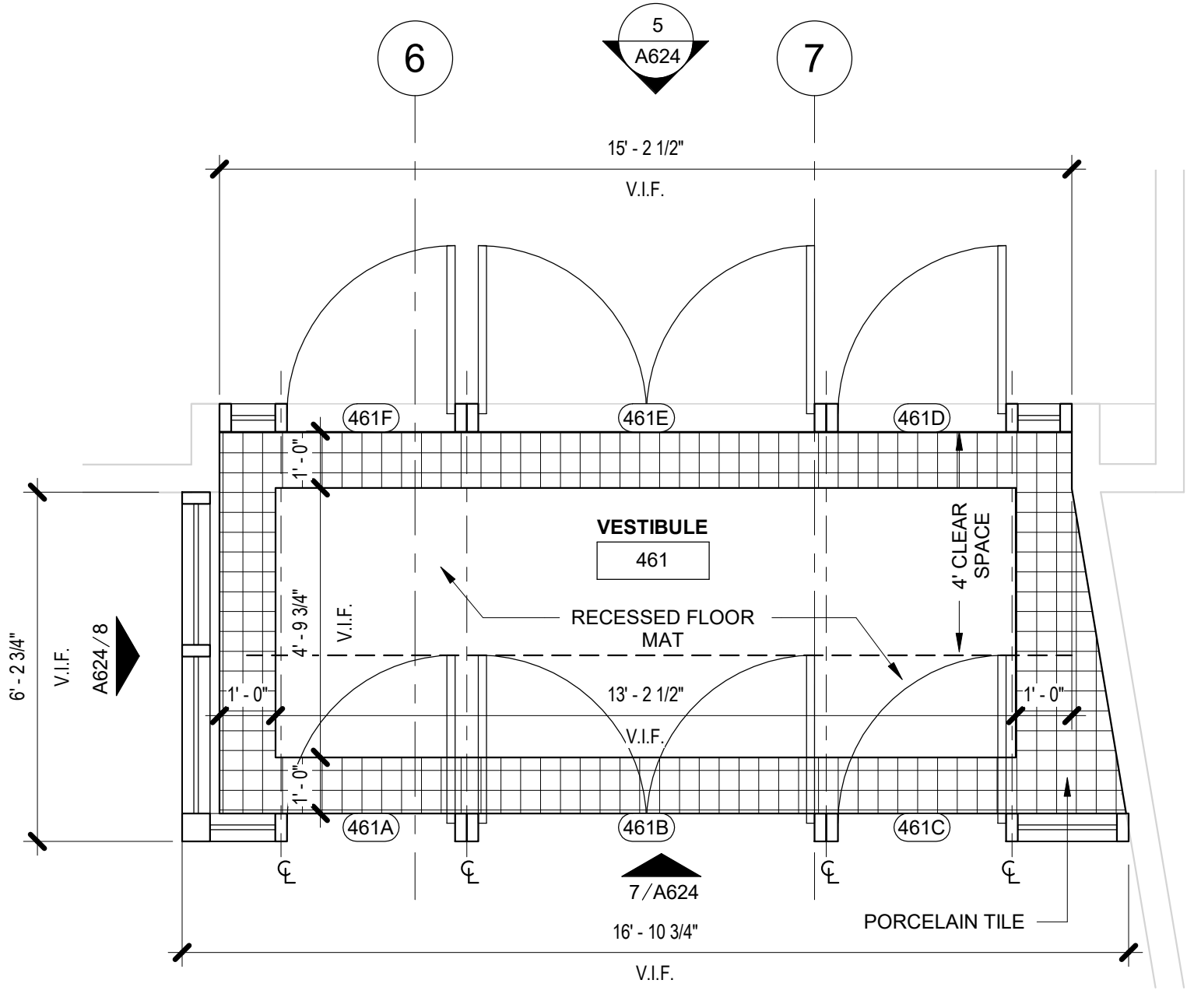
**5** EXTERIOR STOREFRONT SYSTEM 2 DOOR ELEVATION  
3/8" = 1'-0" 2 / A624



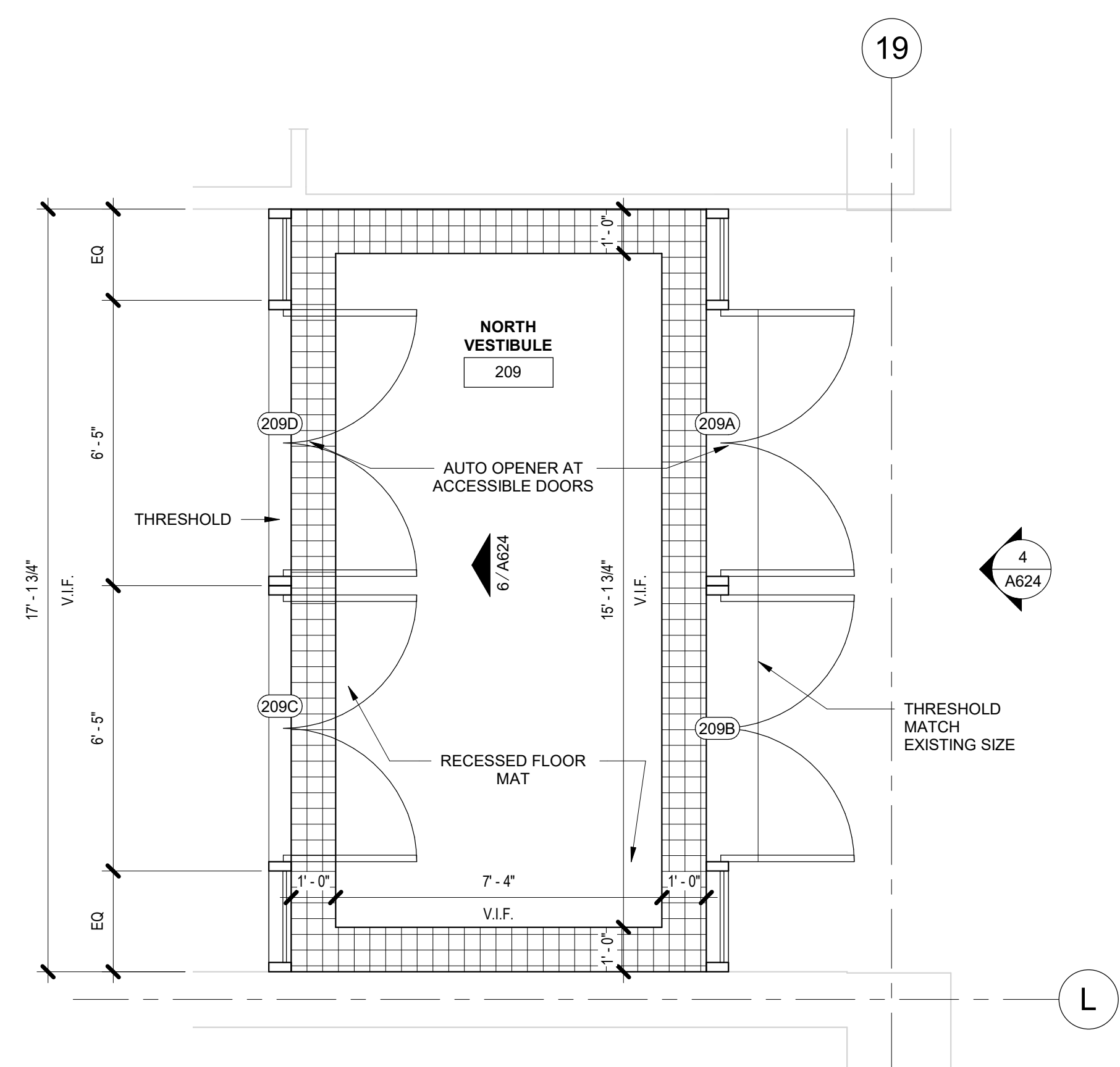
**4** EXTERIOR STOREFRONT SYSTEM 2 ELEVATION  
3/8" = 1'-0" 1 / A624



**3** 04 - GALLERY RCP - ENL. WEST VESTIBULE  
3/8" = 1'-0" /



**2** 04 - GALLERY STOREFRONT DOORS ENL. PLAN  
3/8" = 1'-0" 1 / A204



**1** 02 - 2ND STREET NORTH VESTIBULE ENL. PLAN  
3/8" = 1'-0" 1 / A202

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**REVISIONS:**

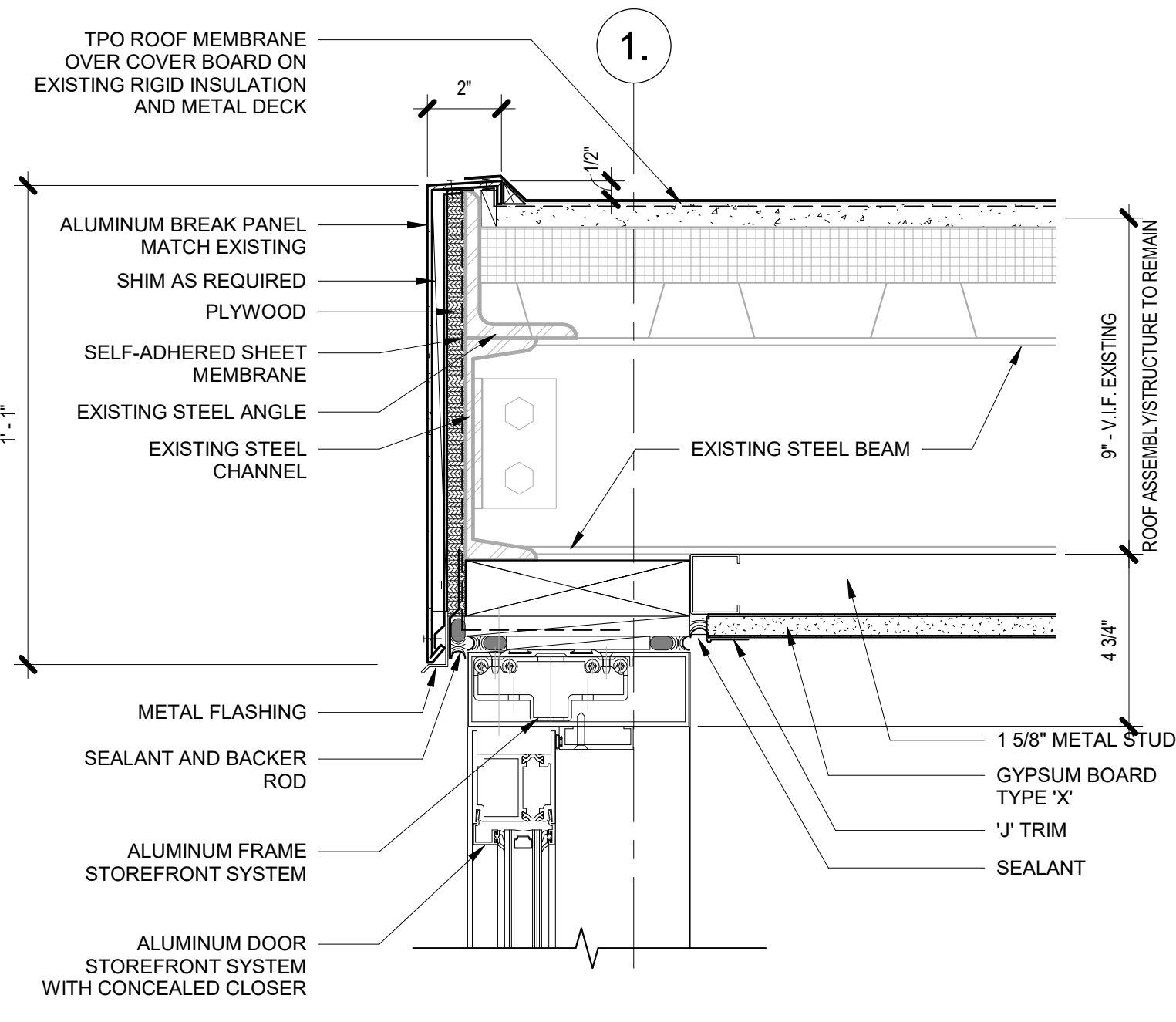
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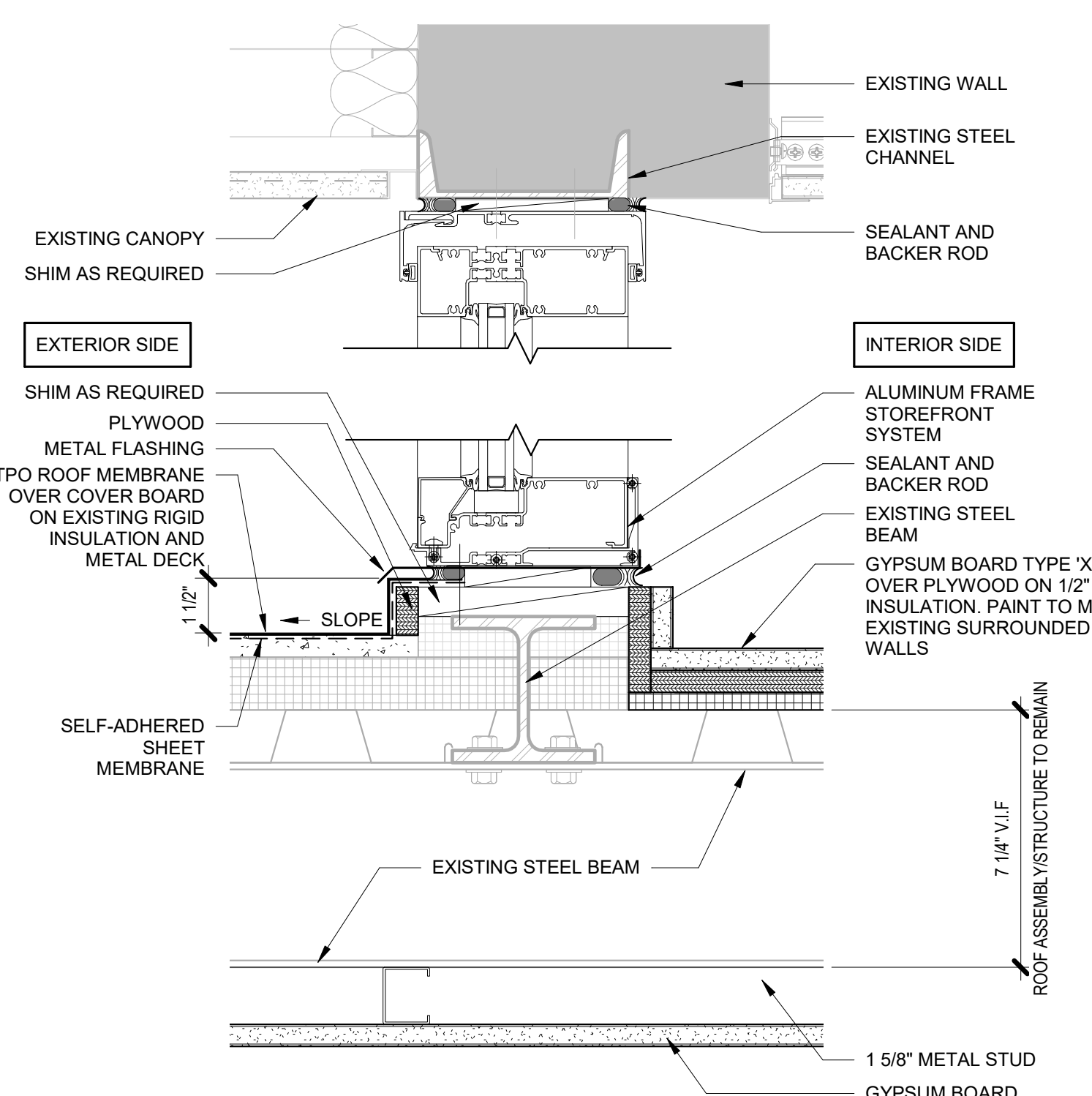
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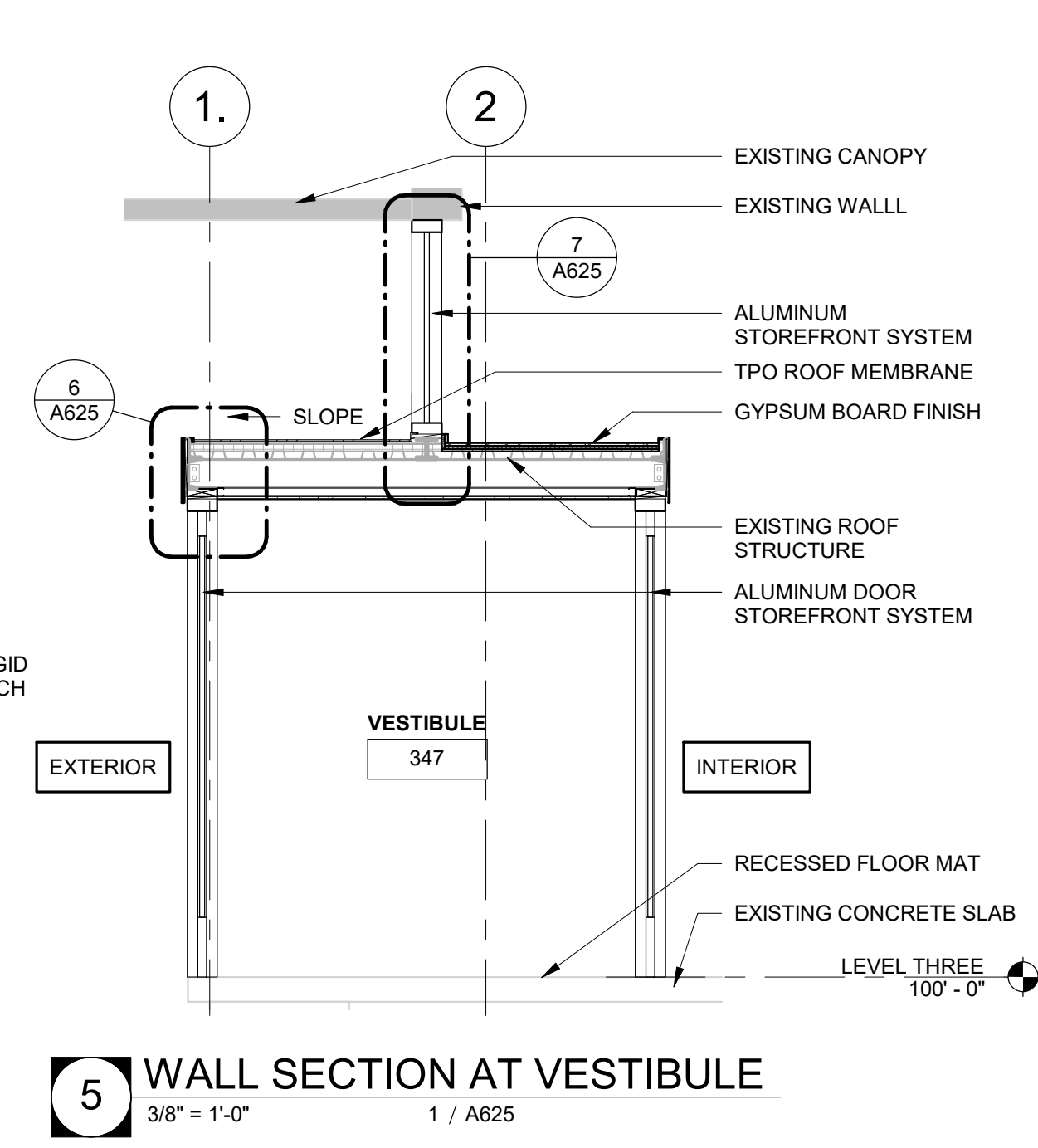
**SHEET NUMBER:**  
**A624**  
**ENLARGED PLANS**  
**STOREFRONT**  
**ENTRANCES**



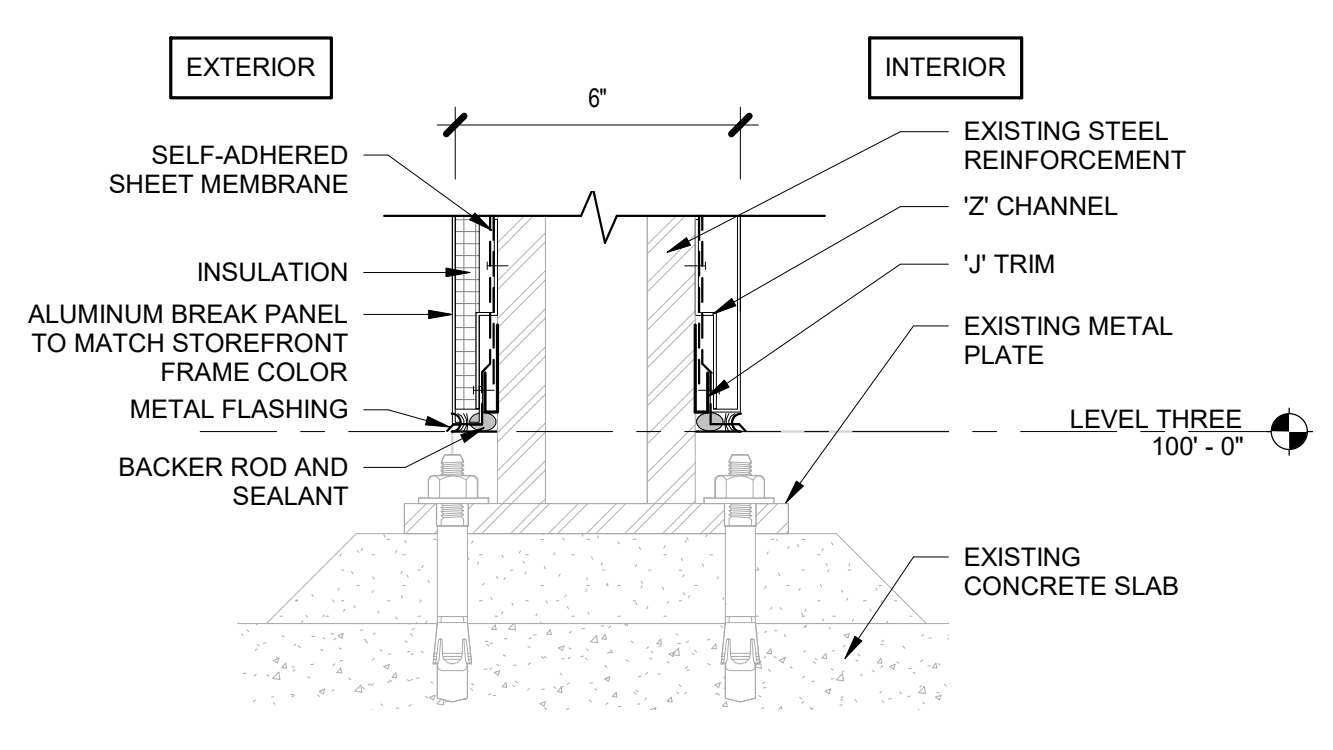
**6 SECTION DETAIL AT STOREFRONT TOP PERIMETER**  
3" = 1'-0" 5 / A625



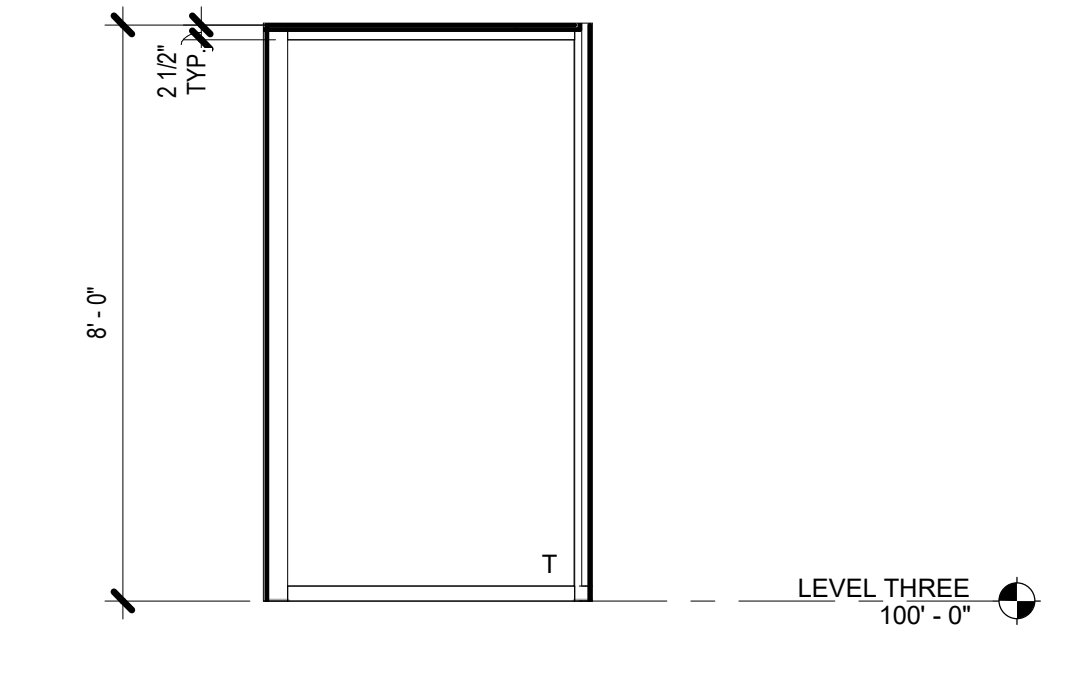
**7 SECTION DETAIL AT UPPER STOREFRONT**  
3" = 1'-0" 5 / A625



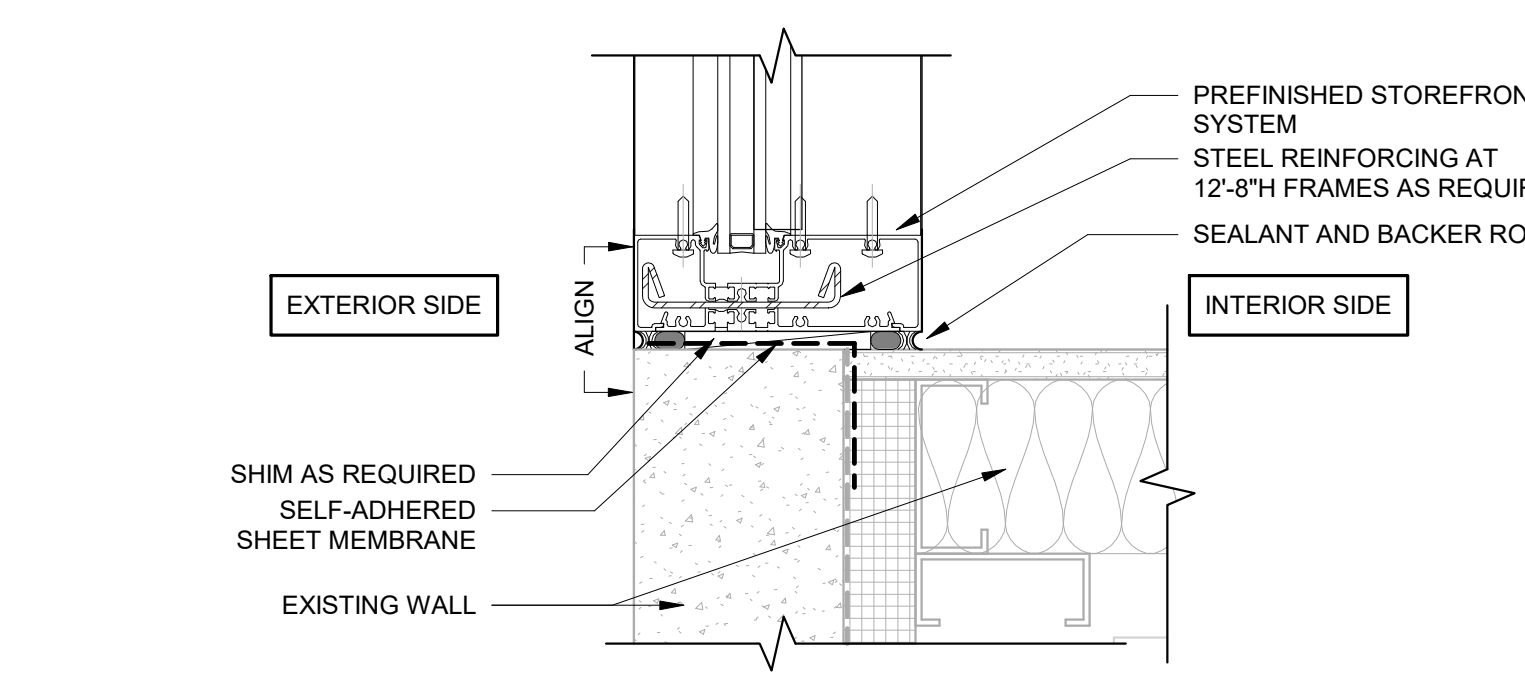
**5 WALL SECTION AT VESTIBULE**  
3/8" = 1'-0" 1 / A625



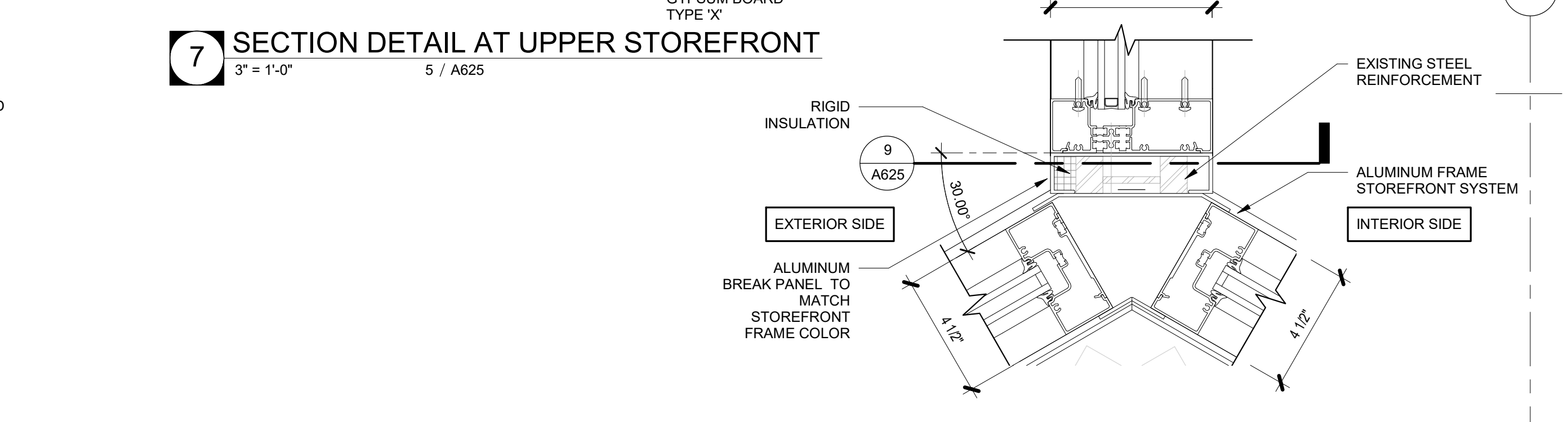
**9 SECTION DETAIL**  
3" = 1'-0" 8 / A625



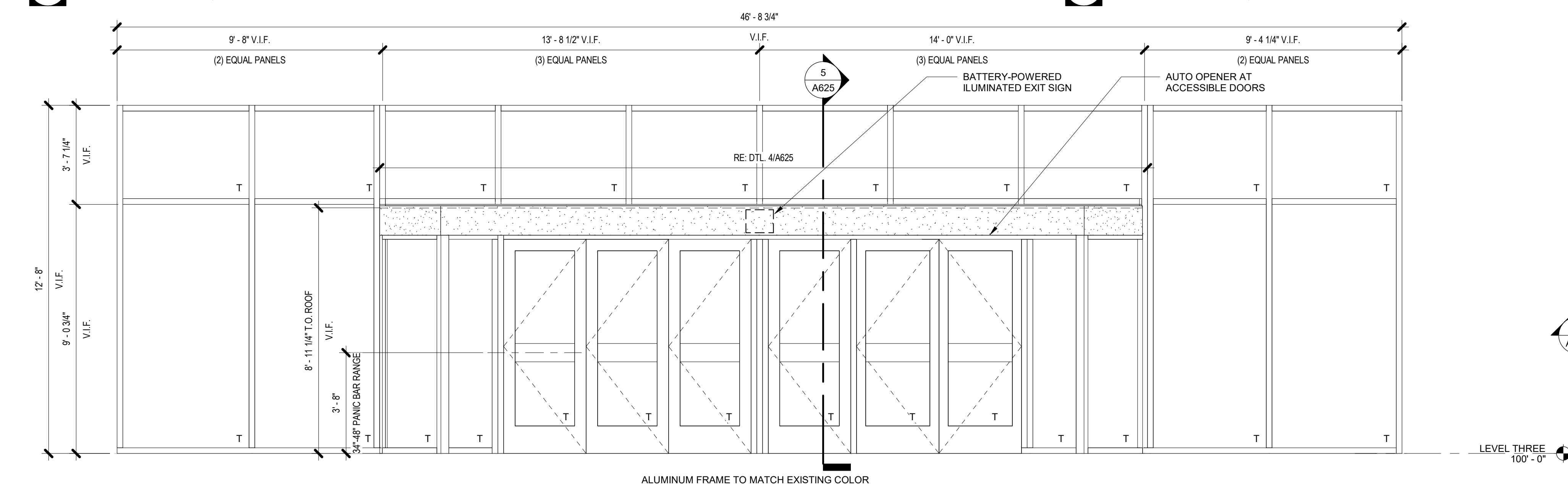
**4 ANGLED STOREFRONT ELEVATION**  
3/8" = 1'-0" 1 / A625



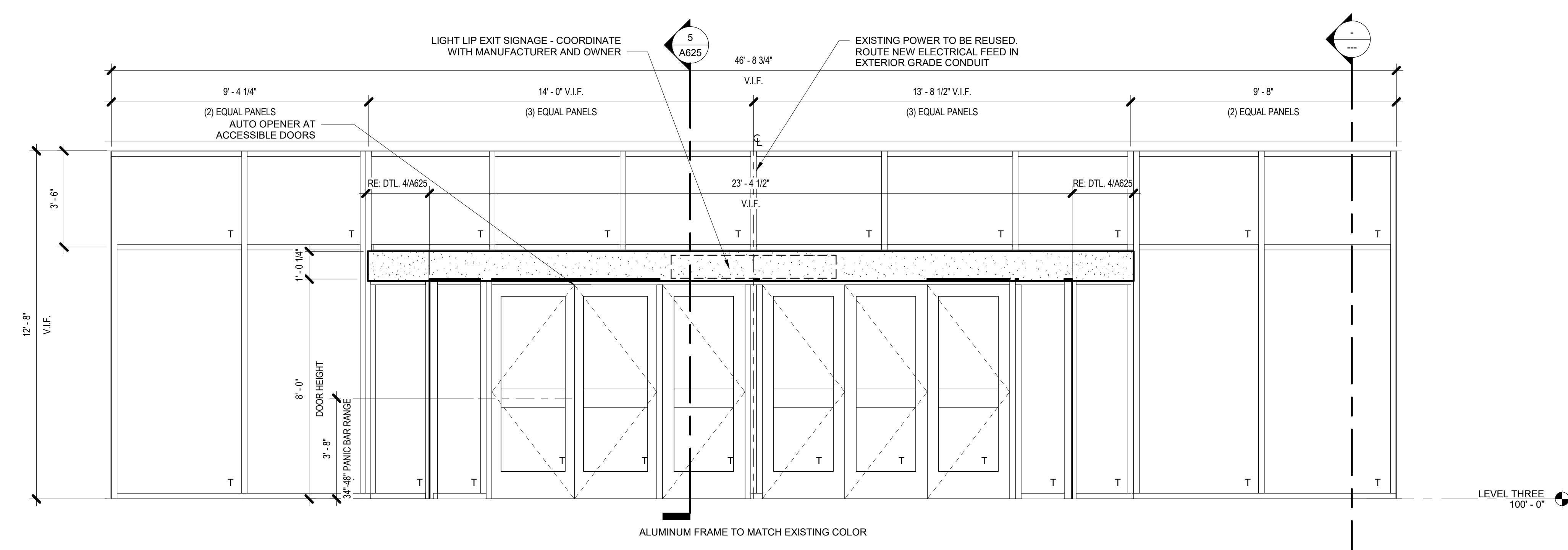
**11 PLAN DETAIL AT JAMB - EXT. WALL**  
3" = 1'-0" 1 / A625



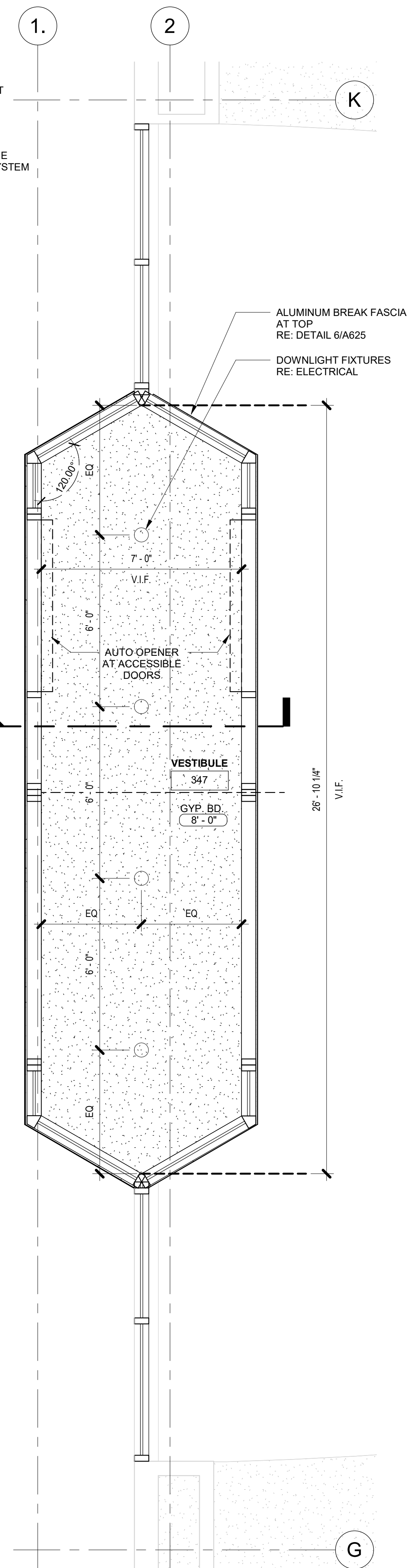
**8 PLAN DETAIL AT STOREFRONT CONNECTION**  
3" = 1'-0" 1 / A625



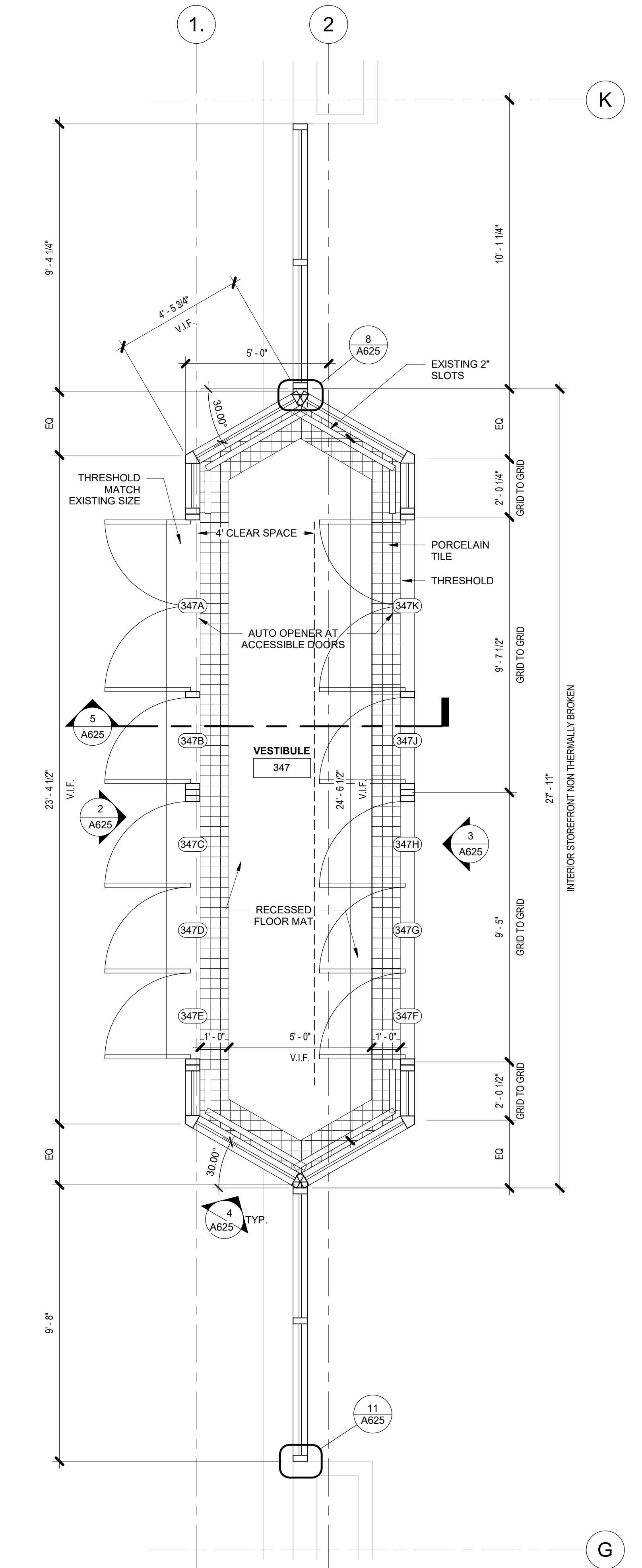
**3 INTERIOR STOREFRONT SYSTEM 1 DOOR ELEVATION**  
3/8" = 1'-0" 1 / A625



**2 EXTERIOR STOREFRONT SYSTEM 1 DOOR ELEVATION**  
3/8" = 1'-0" 1 / A625



**10 03 - 3RD STREET RCP - ENL. MAIN VESTIBULE**  
3/8" = 1'-0" 1 / A625



**1 03 - 3RD STREET MAIN VESTIBULE ENL. PLAN**  
3/8" = 1'-0" 1 / A203

**SHEET NOTES - GLAZING TYPES**

- NOT ALL GLAZING IN THE PROJECT IS REPRESENTED IN THESE GLAZING TYPE SHEETS. REFERENCE PLANS, ELEVATIONS, SECTIONS, AND DOOR FRAME SCHEDULE FOR ALL GLAZING IN PROJECT.
- ALL DIMENSIONS MUST BE VERIFIED IN FIELD PRIOR TO FABRICATION.
- TEMPERED GLASS SHALL BE PROVIDED WITHIN 2 FEET OF ALL EXITS, OR WHERE NOTED.

T = TEMPERED SAFETY GLASS



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**PROJECT:**  
**PROJECT #**  
**SP 23-2**  
**TULSA**  
**PERFORMING**  
**ARTS CENTER -**  
**PACKAGE No. 1**  
**AND No. 2**

**PROJECT NUMBER:**  
**202331.00**

**CONSULTANT:**

**REVISIONS:**

No	Description	Date
1	PERMIT SET	12.13.2023
3	ISSUE FOR BID	01.24.2024

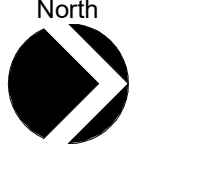
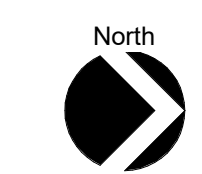
**SEAL:**

01.24.2024

**ISSUE DATE:**  
**01.24.2024**

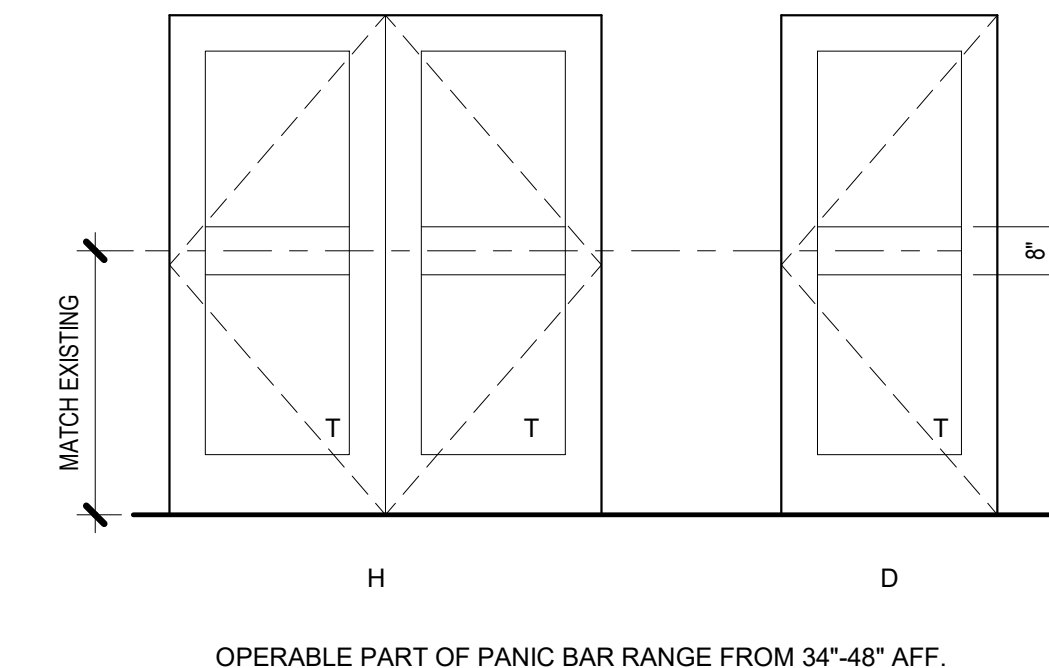
**SHEET NUMBER:**

**A625**  
**ENLARGED PLANS**  
**STOREFRONT**  
**ENTRANCES**





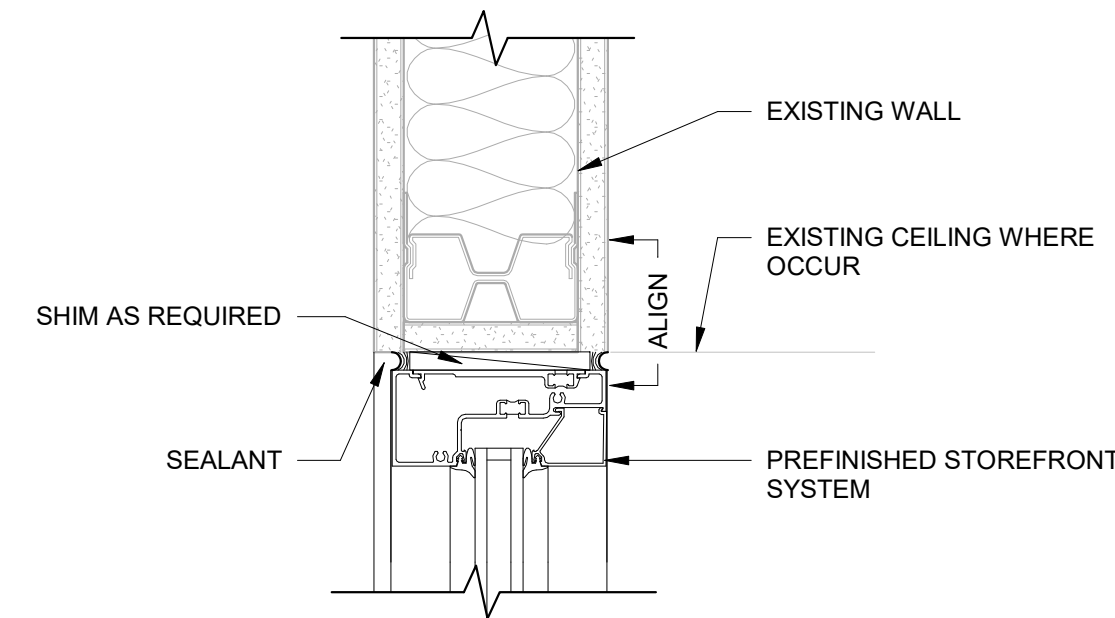
DOOR SCHEDULE								
DOOR NO.	DOOR		DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME		REMARKS
	WIDTH	HEIGHT				FRAME MATERIAL	FRAME FINISH	
209A	6'-0"	8'-0"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM, AUTO OPENER, ACCESSIBLE DOORS
209B	6'-0"	8'-0"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
209C	6'-0"	8'-0"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
209D	6'-0"	8'-0"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM, AUTO OPENER, ACCESSIBLE DOORS
347A	6'-0"	7'-9 1/2"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM, AUTO OPENER, ACCESSIBLE DOORS
347B	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347C	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347D	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347E	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347F	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347G	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347H	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347J	3'-0"	7'-9 1/2"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
347K	6'-0"	7'-9 1/2"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM, AUTO OPENER, ACCESSIBLE DOORS
461A	3'-0"	8'-0"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
461B	6'-0"	8'-0"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
461C	3'-0"	8'-0"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
461D	3'-0"	8'-0"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
461E	6'-0"	8'-0"	H	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM
461F	3'-0"	8'-0"	D	ALUM / GLS	FACTORY	ALUM	FACTORY	STOREFRONT SYSTEM



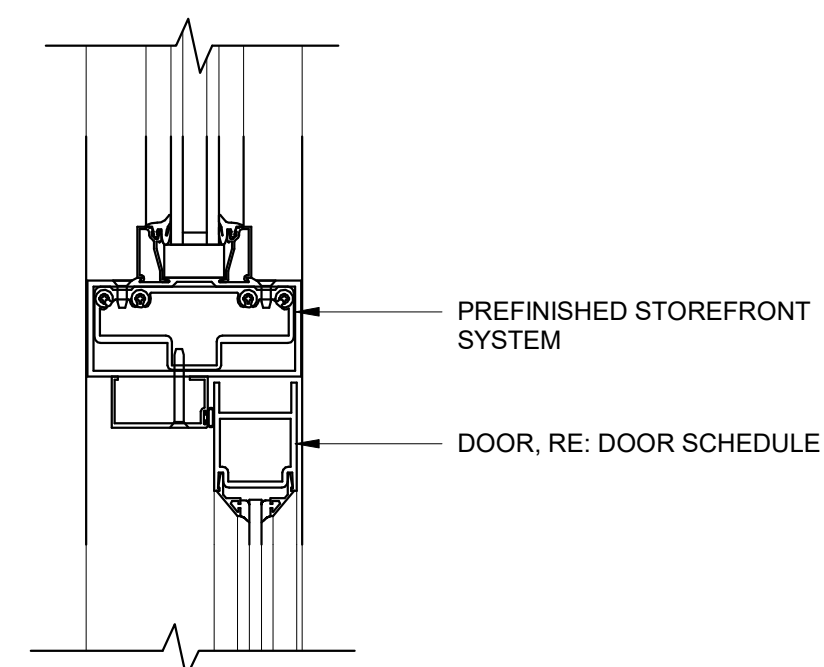
11 DOOR ELEVATIONS - ENTRANCES  
3/8" = 1'-0"

**SHEET NOTES - DOORS**

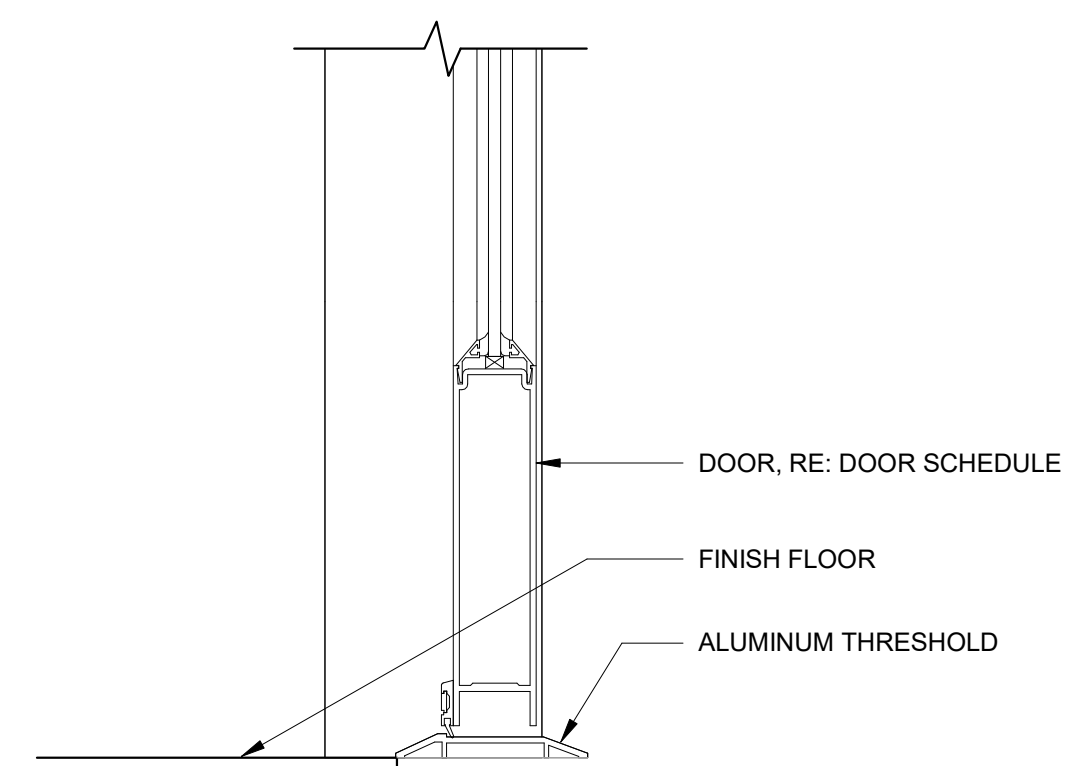
- ALL HARDWARE SHALL CONFORM TO APPLICABLE PROVISIONS OF ICC A117.1, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
- KEYING CRITERIA WILL BE ESTABLISHED BY THE OWNER AFTER BID. ALLOW FOR INDIVIDUAL LOCK KEYING AND MULTIPLE MASTERS AND SUBMASTERS. THE HARDWARE CONTRACTOR SHALL PREPARE A SEPARATE KEYING SCHEDULE BASED UPON THE OWNER'S CRITERIA.
- PROVIDE NON REMOVABLE PINS AT ALL DOOR HINGES WHERE THE HINGE IS EXPOSED TO THE LOCK SIDE OF THE DOOR.
- DOORS SHALL NOT BE LOCKABLE IN THE DIRECTION OF EXIT.
- PROVIDE UL LISTED HARDWARE AT ALL FIRE RATED DOORS.
- IN GENERAL DOOR CLOSERS SHALL BE LOCATED ON THE ROOM SIDE OF THE DOOR. PROVIDE REGULAR OR PARALLEL ARMS AS NECESSARY.
- PROVIDE HOLLOW METAL ASTRAGALS AT DOOR PAIRS WHERE REQUIRED TO ACHIEVE SPECIFIED UL LABEL.
- THE CONTRACTOR SHALL COORDINATE THE VARIOUS HARDWARE COMPONENTS FOR EACH DOOR AND MAKE NECESSARY MODIFICATIONS TO PROVIDE FOR A FULLY FUNCTIONING DOOR OPERATION.
- PROVIDE SEALANT AT JUNCTION OF ALL FRAMES AND PARTITIONS.
- WIDTH OF HOLLOW METAL FRAMES ARE ACTUAL PARTITION THICKNESS PLUS 1 INCH, EXCEPT FOR CMU PARTITIONS. PARTITION TYPES ARE KEYED ON FLOOR PLANS.
- PROVIDE SPECIFIED FRAME ANCHORS LISTED IN THE SPECIFICATIONS TO ACCOMMODATE PARTITION TYPES AND REQUIREMENTS FOR FIRE RATINGS.
- AT GYPSUM BOARD PARTITIONS PROVIDE DOUBLE METAL STUDS AT ALL DOOR OR BORROWED LITE JAMBS.
- PAINT ALL HOLLOW METAL DOORS UNLESS NOTED OTHERWISE.
- MAXIMUM DOOR OPERATING PRESSURES ARE 5 LBS. FOR INTERIOR DOORS AND 8 LBS. FOR EXTERIOR DOORS.
- ALL RATED DOORS SHALL BE SELF CLOSING.
- PROVIDE THRESHOLD AND WEATHERSTRIPPING AT ALL EXTERIOR DOORS, WHETHER SCHEDULED OR NOT.
- 90 MINUTE DOORS SHALL HAVE A MAXIMUM VISION LITE OF 100 SQUARE INCHES.



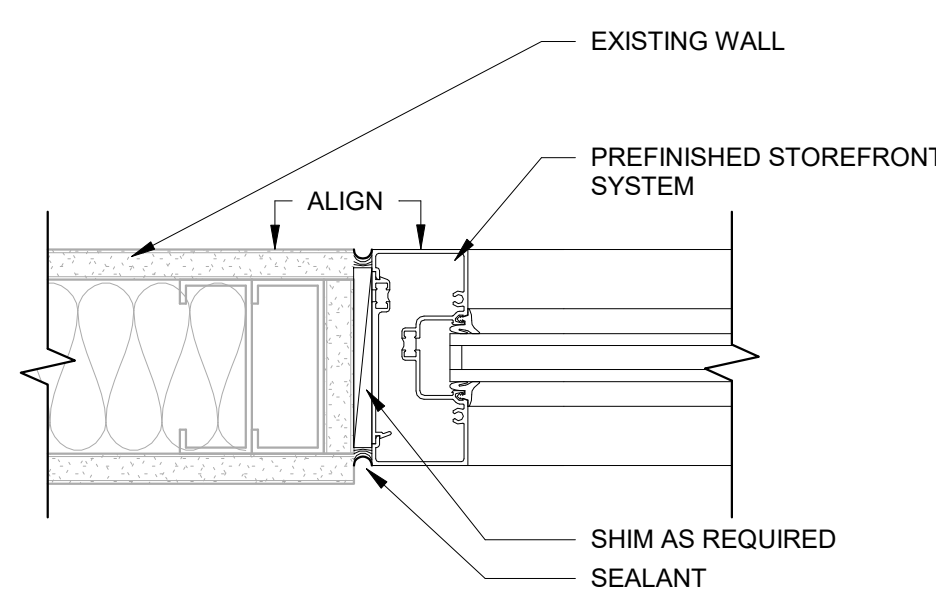
10 TYPICAL STOREFRONT WINDOW HEAD @ GYP BD  
3/8" = 1'-0"



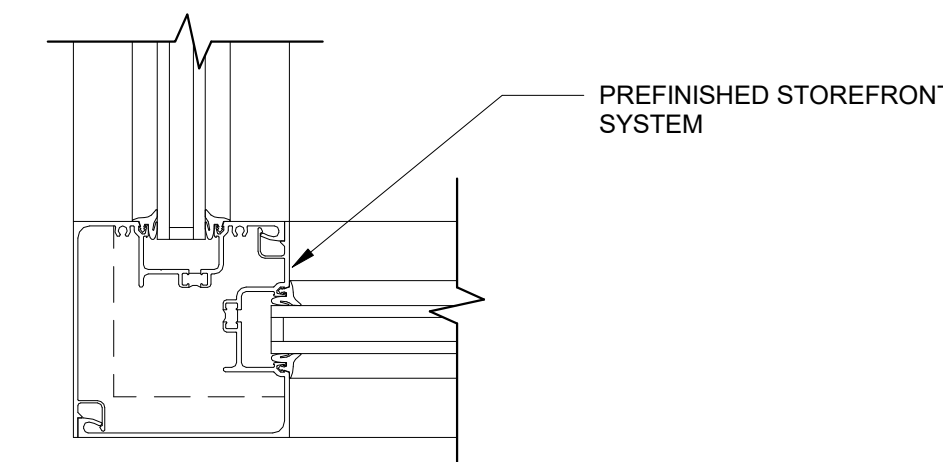
7 TYPICAL STOREFRONT DOOR HEAD WITH TRANSOM  
3/8" = 1'-0"



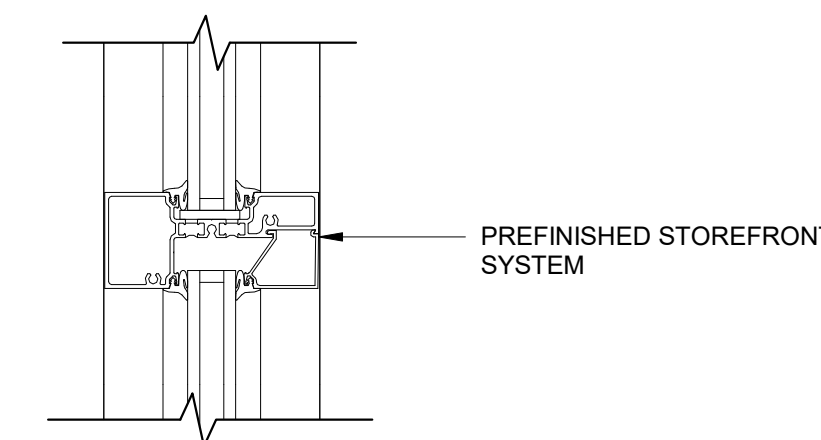
4 TYPICAL STOREFRONT DOOR SILL  
3/8" = 1'-0"



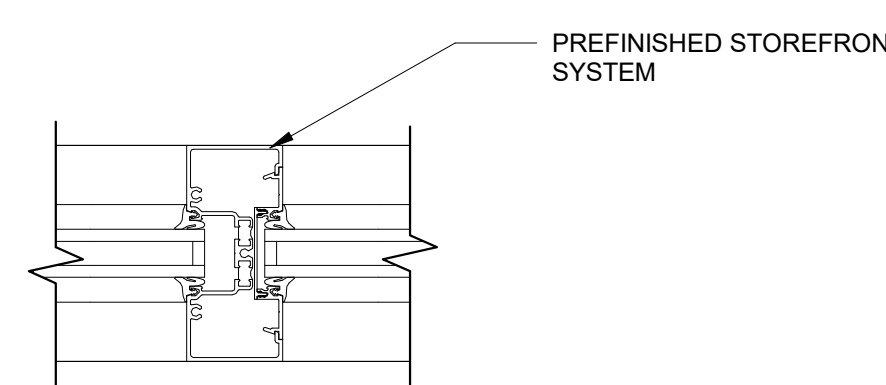
3 TYPICAL STOREFRONT WINDOW JAMB @ GYP BD  
3/8" = 1'-0"



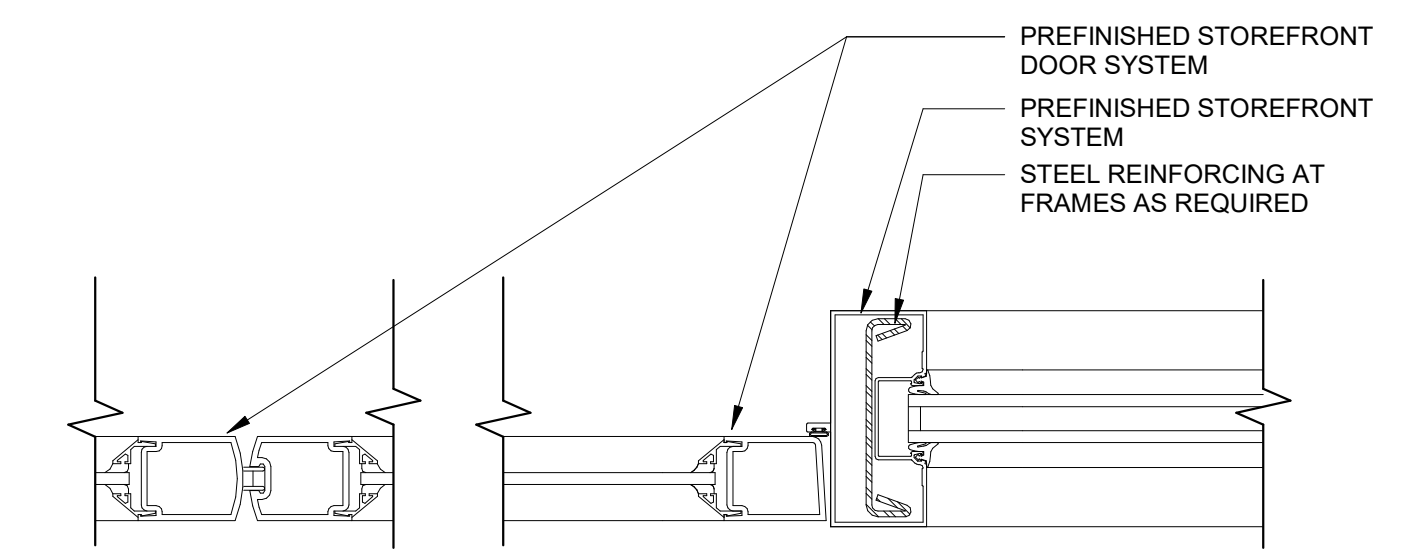
9 TYPICAL STOREFRONT MULLION CORNER JAMB  
3/8" = 1'-0"



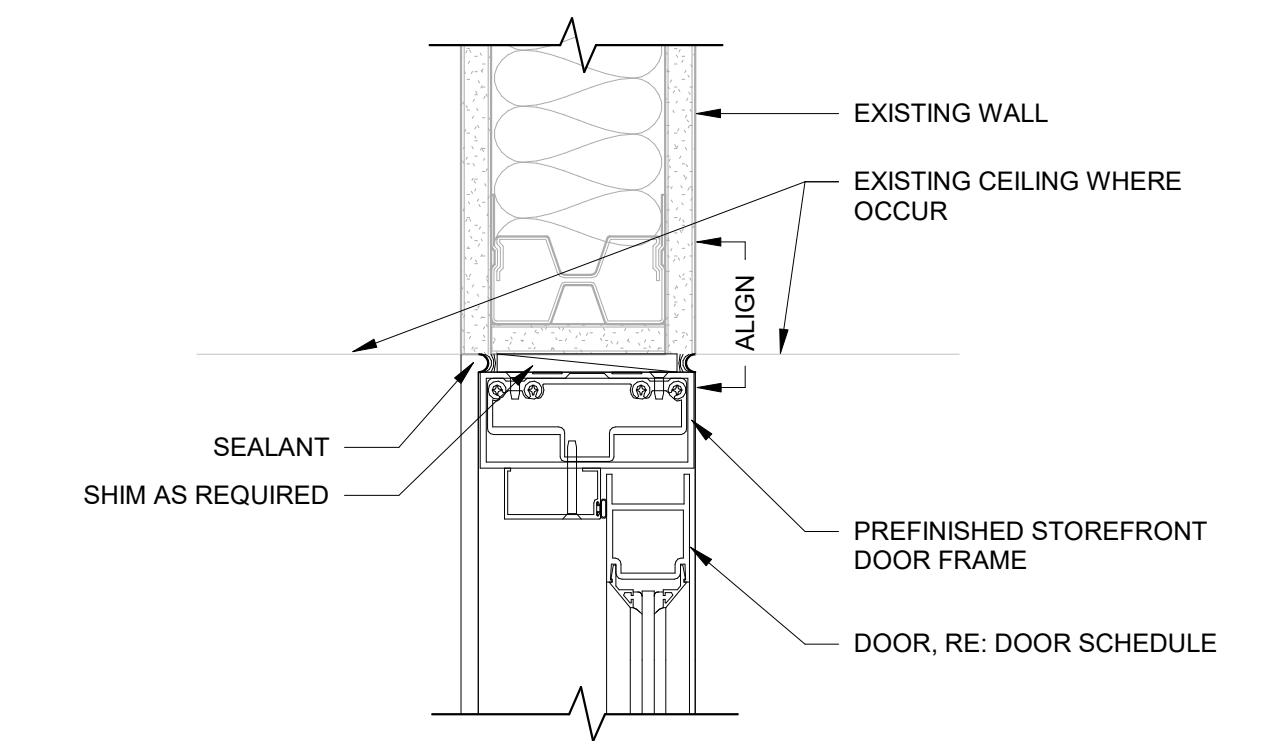
6 TYPICAL STOREFRONT HORIZONTAL MULLION  
3/8" = 1'-0"



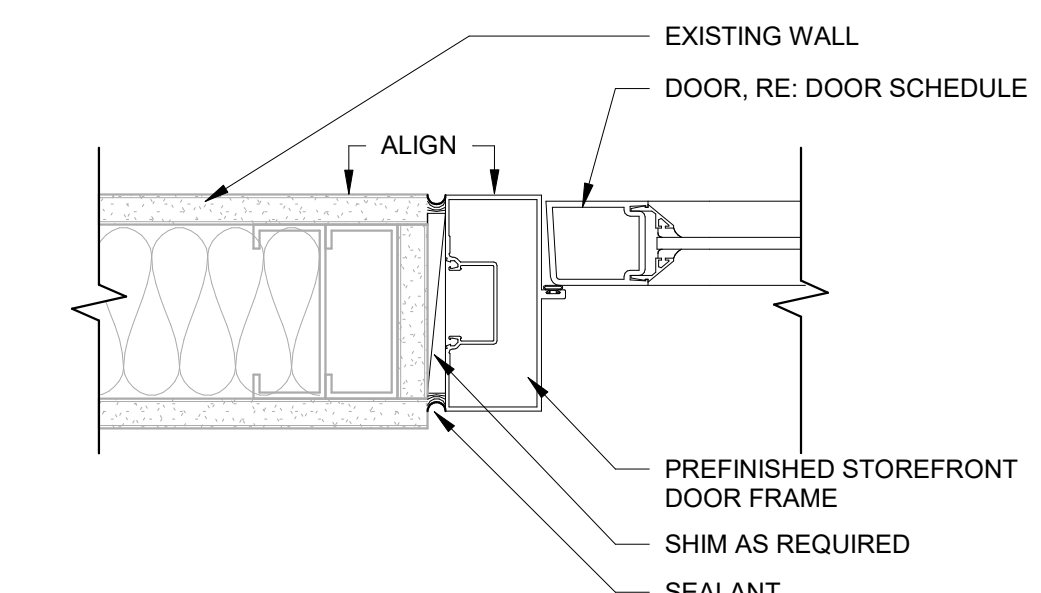
2 TYPICAL STOREFRONT VERTICAL MULLION  
3/8" = 1'-0"



8 TYPICAL STOREFRONT DOOR JAMB/SIDELIGHT  
3/8" = 1'-0"



5 TYPICAL STOREFRONT DOOR HEAD @ GYP BD  
3/8" = 1'-0"



1 TYPICAL STOREFRONT DOOR JAMB @ GYP BD  
3/8" = 1'-0"



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**SEAL:**



01.24.2024

**ISSUE DATE:**  
**01.24.2024**

**SHEET NUMBER:**  
**A801**  
**DOOR SCHEDULE,**  
**DOOR ELEVATIONS,**  
**DOOR FRAME**  
**ELEVATIONS**

**SYMBOLS:**

**PIPE**

—————	EXISTING
—————	NEW
-----	EXISTING TO BE REMOVED
—RS—	REFRIGERANT SUCTION
—RL—	REFRIGERANT LIQUID
—CD—	UNIT CONDENSATE RELIEF VALVE DRAIN
—PD—	PUMPED DISCHARGE LINE
-----	DOMESTIC COLD WATER
-----	DOMESTIC HOT WATER
-----	DOMESTIC HOT WATER RETURN
-----	SANITARY VENT
—SS—	SANITARY SEWER

**PIPE SPECIALTY**

	2-WAY CONTROL VALVE
	UNION
	BALL VALVE
	OS & Y VALVE
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	VERTICAL SHUT-OFF VALVE IN RISER
	DIRECTION OF FLOW
	CAP

**CONTROL DEVICES**

	TEMPERATURE SENSOR OR CONTROLLER
	THERMOSTAT

**MISC SYMBOLS**

DETAIL NUMBER		ENLARGED/ DETAILED PLAN
SHEET NUMBER		PARTIAL SECTION
DETAIL NUMBER		POINT OF CONNECTION, NEW TO EXISTING
SHEET NUMBER		NUMBERED NOTE REFERENCE

**AIR MOVING DEVICES**

12X12 200		NECK SIZE CFM	DIFFUSER MARK
6"ø 45 CFM		SUPPLY AIR DIFFUSER, 6"Ø FLEX AND RIGID DUCT, 45 CFM, 6"Ø NECK	
6"ø 45 CFM		SUPPLY AIR DIFFUSER, 3-WAY THROW, 6"Ø FLEX AND RIGID DUCT, 45 CFM, 6"Ø NECK	
10"ø 100 CFM		LINEAR SUPPLY AIR DIFFUSER, 2 FEET LENGTH, 10"Ø NECK, 100 CFM	
10"ø 100 CFM		LINEAR SUPPLY AIR DIFFUSER, 4 FEET LENGTH, 10"Ø NECK, 100 CFM	
		MOTORIZED DAMPER	
		MANUAL VOLUME DAMPER	
		MANUAL VOLUME DAMPER WITH REMOTE OPERATOR CABLE	
		FIRE DAMPER	
		COMBINATION FIRE AND SMOKE DAMPER	
		DUCT CAP	
		DUCT WITH 2" ACOUSTICAL LINER	
		EXISTING	
		EXISTING TO BE REMOVED	
		NEW	
		EXISTING DUCT TO BE REMOVED	
		NEW DUCT	
		SIDEWALL SUPPLY REGISTER	
		SIDEWALL SUPPLY GRILLE	
		CEILING SUPPLY DIFFUSER WITH DAMPER (LINEAR)	
		LOUVERED OR PERFORATED DIFFUSER	
		DIFFUSER WITH DIRECTIONAL AIR FLOW (3-WAY)	
		CEILING RETURN OR EXHAUST GRILLE	
		FLEXIBLE DUCT CONNECTION	
∅		ROUND DUCT	
AHU-1		EQUIPMENT TAG-NUMBER	
		EQUIPMENT SERVICE CLEARANCE	

**ABBREVIATIONS:**

∅	ROUND	LWT	LEAVING WATER TEMPERATURE
ABV	ABOVE	M/A	MIXED AIR
AC	AIR CONDITIONING	MAX	MAXIMUM
AD	AREA DRAIN	MBH	ONE THOUSAND BTU PER HOUR
ADD	ADDENDUM	MCF	ONE THOUSAND CUBIC FEET
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MECH	MECHANICAL
ALT	ALTERNATE	MFR	MANUFACTURER
AP	ACCESS PANEL	MIN	MINIMUM
ARCH	ARCHITECT/ARCHITECTURAL	MISC	MISCELLANEOUS
BFF	BELOW FINISHED FLOOR	MTR	MOTOR
BLW	BELOW	MUI	MECHANICAL UTILITY INTERFACE
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FDV	FIRE DEPARTMENT VALVE	RL/A	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FPM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SCT	SYSTEMS CONTROL TECHNOLOGY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GC	GENERAL CONTRACTOR	SP	STANDPIPE
GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
GW	GREASE WASTE	STM	STEAM
HB	HOSE BIB	T	THERMOSTAT
HP	HORSE POWER	TD	TEMPERATURE DROP
HTG	HEATING	TD	TRENCH DRAIN
HTR	HEATER	TEMP	TEMPERATURE
HW	HOT WATER	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
ID	INDIRECT	VAC	VACUUM
IN	INCH	V	VENT
INV	INVERT	VAV	VARIABLE AIR VOLUME
LB	POUND	VENT	VENTILATION
LB/HR	POUNDS PER HOUR	VTR	VENT THROUGH ROOF
LAT	LEAVING AIR TEMPERATURE	W	WASTE
LP	LOW PRESSURE	WB	WET BULB
LPG	LIQUEFIED PETROLEUM GAS	WCO	WALL CLEAN OUT
LVR	LOUVER	WH	WALL HYDRANT

**EQUIPMENT ABBREVIATIONS:**

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWL	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

**CONTROL UPGRADES:**

- GENERAL: TEMPERATURE CONTROLS SYSTEM SHALL BE BY BASE BUILDING TEMPERATURE CONTROLS CONTRACTOR (JOHNSON CONTROLS). ALL SYSTEM COMPONENTS AND INSTALLATION SHALL MATCH BUILDING STANDARDS. SUBMIT TEMPERATURE CONTROLS SHOP DRAWINGS AND DATA SHEETS FOR APPROVAL PRIOR TO INSTALLATION. PROVIDE ALL ELECTRICAL POWER AND INTERLOCK WIRING ASSOCIATED WITH THE TEMPERATURE CONTROLS SYSTEM AS DESCRIBED HEREIN.
- UPGRADED METASYS SOFTWARE TO METASYS 12 UTILIZING THE EXISTING NAE ENGINES. THE NEW PLATFORM SHALL REPLACE THE CURRENT SOFTWARE METASYS CURRENTLY IN PLACE.
- PROVIDE NEW ADS COMPUTER & MONITOR AS REQUIRED FOR UPDATED SOFTWARE.
- CONTROLS CONTRACTOR SHALL UPDATE THE UPDATE SCT DATABASE AND THE NEW MUI.
- REBUILD ALL THE EXISTING SYSTEM GRAPHICS IN MUI. ABANDON THE EXISTING STANDARD GRAPHICS.
- METASYS 12 SHALL INCLUDE MUI INTERFACE SUPPORT ON A MOBILE DEVICE (THE OWNER PROVIDE NETWORK ACCESS).
- ALTERNATE 1:  
PROVIDE ALTERNATE PRICING TO UPGRADE THE FOLLOWING NETWORK ENGINES:  
  

NCE25s:	MS-NCE2500-0, MS-NCE2506-0, MS-NCE2510-0, MS-NCE2516-0, MS-NCE2520-0, MS-NCE2526-0, MS-NCE2560-0, MS-NCE2566-0
NAE35s:	MS-NAE3510-2, MS-NAE3511-2, MS-NAE3514-2, MS-NAE3515-2, MS-NAE3520-2, MS-NAE3524-2
NAE45s/NCM45s:	MS-NAE4510-2, MS-NAE4511-2, MS-NAE451L-2, MS-NAE4520-2, MS-NAE4521-2, MS-NCM4510-2, MS-NCM4520-2
NIE29s:	MS-NIE2910-0, MS-NIE2960-0
NIE39s:	MS-NIE3910-2
NIE49s:	MS-NIE4910-2

**GENERAL NOTES:**

- COMPLY WITH CURRENT BUILDING, MECHANICAL, PLUMBING AND OTHER GOVERNING CODES, STATE STATUTES, CITY ORDINANCES, AND REGULATIONS OF REGULATORY BODIES HAVING JURISDICTION.
- INSTALL ALL PIPING AND FITTINGS IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE PERMANENTLY-LEAKPROOF PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT FAILURE OR DEGRADATION OF

**DEMOLITION GENERAL NOTES:**

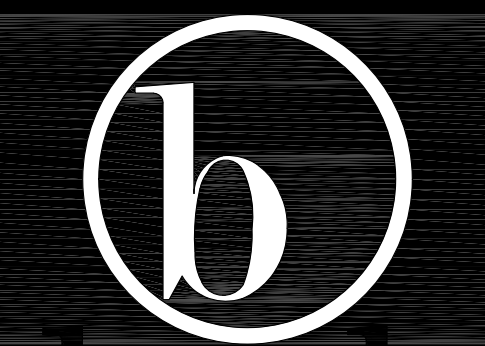
- DEMOLISH EXISTING SYSTEMS, EQUIPMENT, ETC. AS NECESSARY TO MAKE WAY FOR NEW CONSTRUCTION. AVOID DISRUPTION OF SERVICES DURING NORMAL BUSINESS HOURS. ALL SYSTEM SHUT-DOWNS AND DISRUPTION OF BUILDING SERVICES SHALL BE COORDINATED WITH OWNER AND SCHEDULED AFTER NORMAL BUSINESS HOURS OR AS OTHERWISE APPROVED BY OWNER.
- PRIOR TO DEMOLITION, FIELD VERIFY AND IDENTIFY ANY EXISTING EQUIPMENT TO REMAIN IN SERVICE THAT IS SERVED BY SYSTEMS TO BE DEMOLISHED. NOTIFY ENGINEER OF ANY SUCH CONDITIONS AND REMOVE AND/OR RELOCATE THE SERVICES AS DIRECTED.
- MEET WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY WHETHER EXISTING MATERIALS, SYSTEMS, EQUIPMENT, ETC. ARE CONSIDERED SALVAGE OR DEBRIS. REMOVE DEBRIS FROM SITE AND DISPOSE OF IN APPROVED MANNER. RETURN SALVAGE TO OWNER IN A LOCATION AND MANNER AS DIRECTED BY OWNER.
- TERMINATE DEMOLISHED SYSTEM SERVICES IN A CONCEALED LOCATION IN AN APPROVED MANNER.
- REMOVE ALL BRANCH DUCTWORK NOT SHOWN TO REMAIN AND PATCH, REPAIR ALL UNUSED OPENINGS IN EXISTING DUCTWORK, PATCHED OPENINGS SHALL BE SEALED AIR TIGHT AND PROVIDE A SMOOTH AND UNOBSTRUCTED SURFACE INSIDE THE DUCT. (TYP.)

**HVAC GENERAL NOTES:**

- ALL WORK SHALL MEET OR EXCEED APPLICABLE CODES AND BASE BUILDING SPECIFICATIONS.
- REMOVE ALL NON-PLENUM RATED MATERIALS (PVC, INSULATION, ETC.) FROM THE RETURN AIR PLENUM. REPLACE WITH PLENUM RATED MATERIALS AS SPECIFIED ON THIS SHEET.
- COORDINATE LOCATION OF NEW MECHANICAL EQUIPMENT WITH EXISTING STRUCTURAL MEMBERS TO INSURE MINIMUM SERVICE CLEARANCES ARE PROVIDED.
- LOCATE AND INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- SAW-CUT, PATCH, AND REPAIR FLOOR IN AN APPROVED MANNER, FOR INSTALLATION OF UNDERFLOOR SYSTEMS (COORDINATE WITH GENERAL CONTRACTOR).
- VERIFY ALL EXISTING EQUIPMENT SERVING THIS SPACE IS FUNCTIONING PROPERLY. IF NOT, NOTIFY ARCHITECT/ENGINEER OF ANY BROKEN OR MALFUNCTIONING EQUIPMENT. REPLACE ALL FILTERS OF EXISTING EQUIPMENT.
- PRIOR TO BID, CONTRACTOR TO FIELD VERIFY ALL LOCATIONS WHERE WALLS ARE BEING MODIFIED OR ADDED AND INCLUDE COST FOR MODIFYING MECHANICAL SYSTEMS, INCLUDING RELOCATING EXISTING EQUIPMENT, DUCTWORK AND DIFFUSERS AND REBALANCING SYSTEM FOR COMFORT CONDITIONS.
- PROVIDE TEMPORARY AIR FILTERS ON AHU'S, FCU'S, FFB'S AND AHU RETURN AIR DUCT OPENINGS DURING CONSTRUCTION. REPLACE AS NEEDED THROUGHOUT THE PROJECT AND REPLACE ALL AIR FILTERS WITH BUILDING APPROVED FILTERS PRIOR TO FINAL TEST AND BALANCE.
- REBALANCE EXISTING EQUIPMENT TO NEW GPM AS SHOWN.
- ROUTE ALL DUCTWORK AND HVAC PIPING HIGH AS POSSIBLE.
- COORDINATE ACCESS DOOR REQUIREMENTS AND LOCATIONS WITH CITY CONTRACT ADMINISTRATOR AND GENERAL CONTRACTOR.

OWNERSHIP OF DOCUMENTS: ALL DRAWINGS, SPECIFICATIONS AND OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE FOR THIS PROJECT ONLY AND SHALL REMAIN THE PROPERTY OF THE ENGINEER WHETHER THE PROJECT IS COMPLETED OR NOT. REUSE OF ANY OF THE INSTRUMENTS OF SERVICE OF THE ENGINEER BY THE OWNER OR EXTENSIONS OF THIS PROJECT WITHOUT WRITTEN PERMISSION OF THE ENGINEER SHALL BE AT THE OWNER'S RISK AND THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEYS' FEES ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S INSTRUMENTS OF SERVICE BY THE OWNER OR BY OTHERS ACTING THROUGH THE OWNER.

\*NOTE\*  
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



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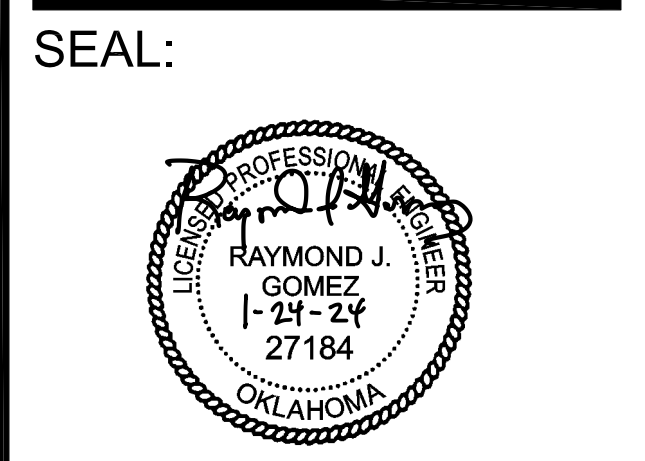
**PROJECT:**  
**PROJECT #**  
**SP 23-2**  
**TULSA**  
**PERFORMING**  
**ARTS CENTER -**  
**PACKAGE No. 2**  
**MECH., AV AND**  
**THEATRICAL**  
**LIGHTING**  
**UPGRADES**

**PROJECT NUMBER:**  
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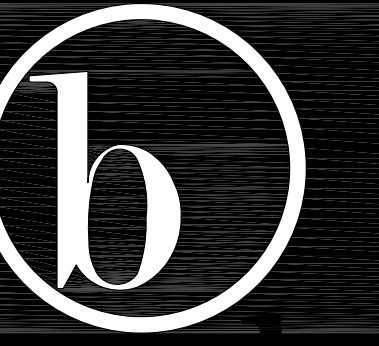
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**ISSUE DATE:**  
**01.24.2024**

**SHEET NUMBER:**  
**M001**  
**MECHANICAL NOTES**  
**LEGEND, AND SYMBOLS**



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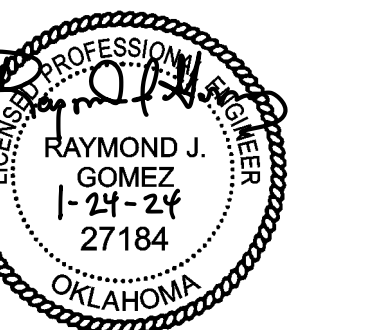
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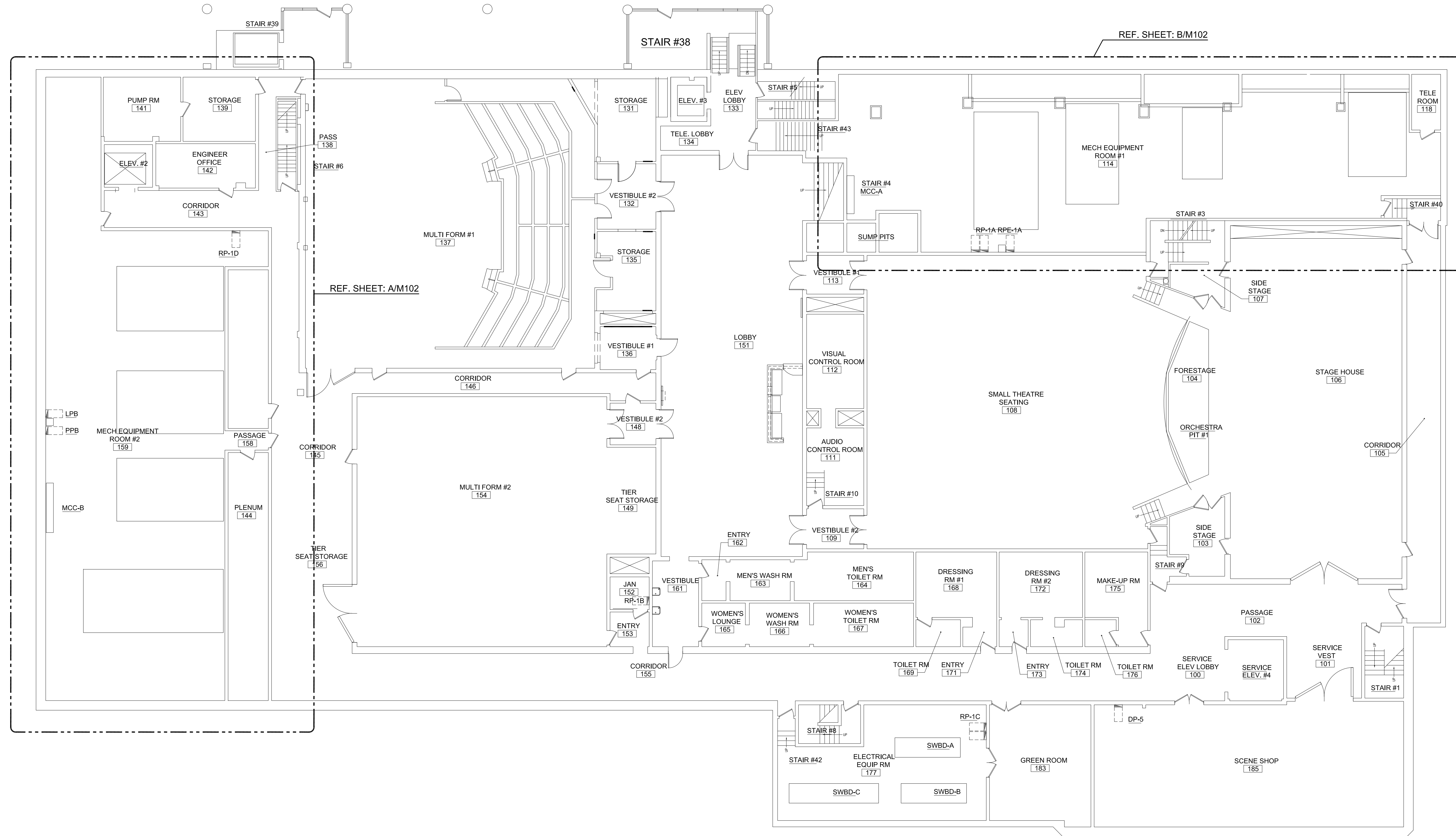
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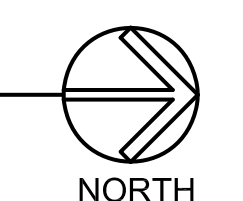


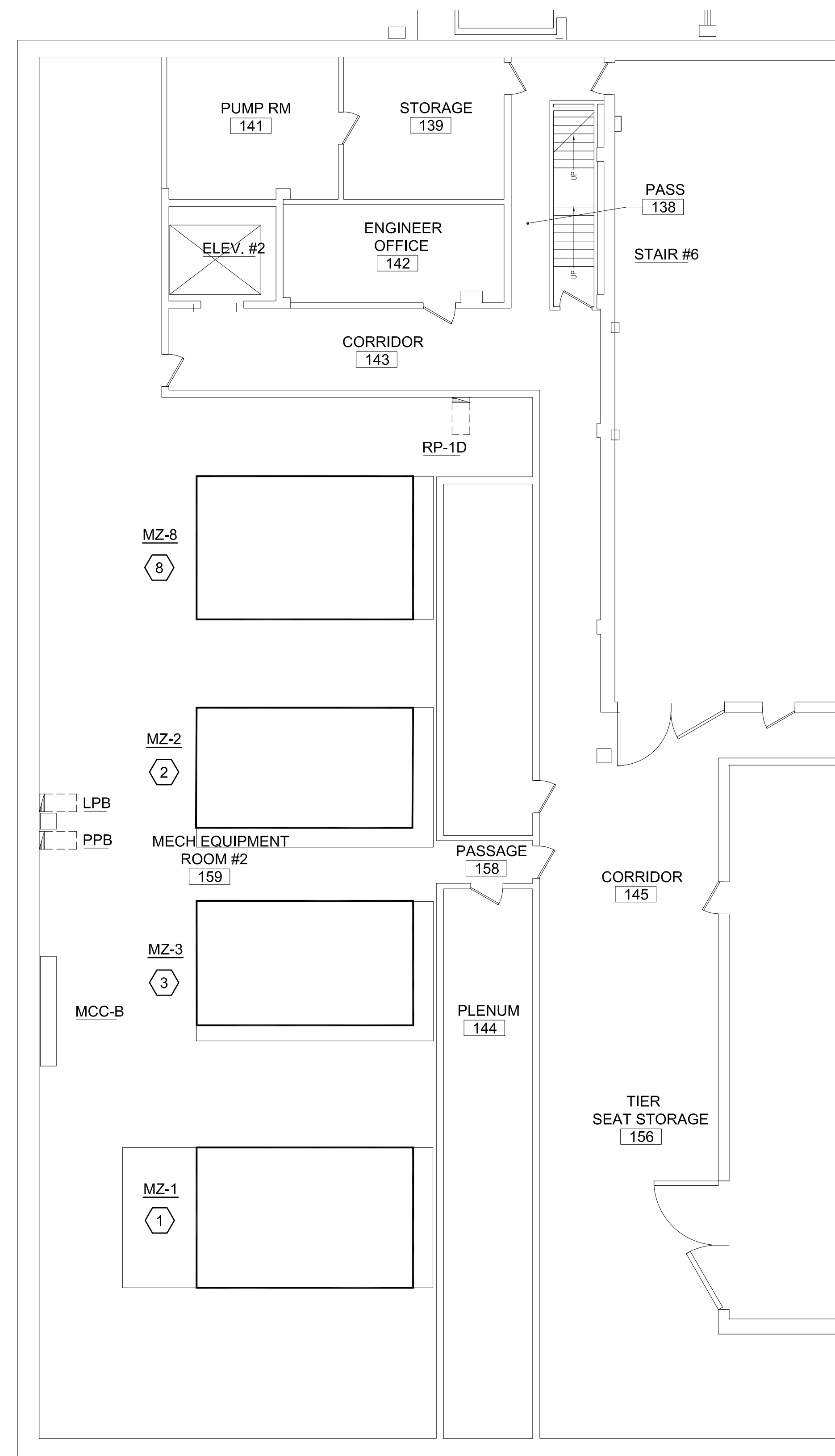
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**01.24.2024**

**SHEET NUMBER:**  
**M101**  
**LEVEL 1 - OVERALL**  
**MECHANICAL FLOOR PLAN**



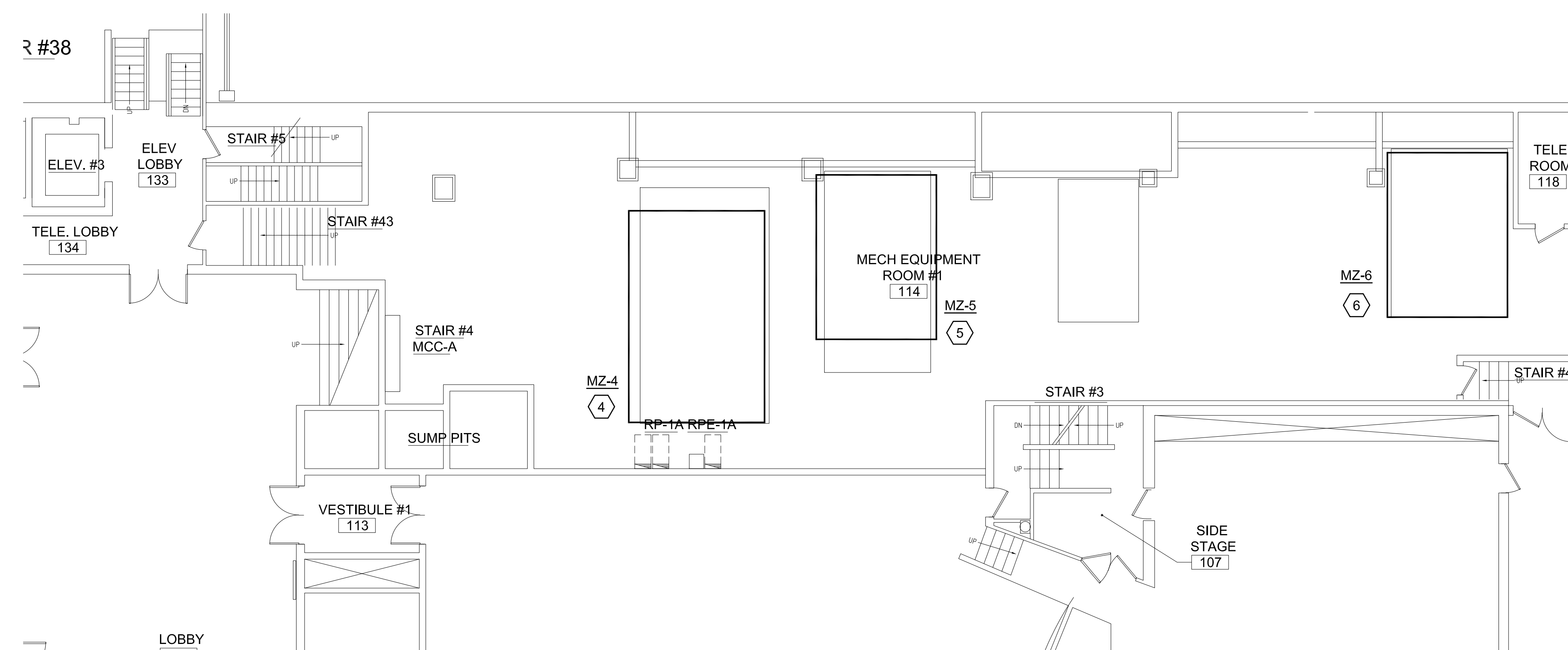
**A** LEVEL 1 - OVERALL HVAC PLAN  
SCALE: 3/32"=1'-0"





- HVAC NUMBERED NOTES:**
1. REPLACE EXISTING PNEUMATIC OPERATED CHILLED WATER CONTROL VALVE WITH NEW ELECTRIC ACTUATED CONTROL VALVE. (5" VALVE BODY WITH 237 CV, 339 GPM, FAIL CLOSE)
  2. REPLACE EXISTING PNEUMATIC OPERATED CHILLED WATER CONTROL VALVE WITH NEW ELECTRIC ACTUATED CONTROL VALVE. (5" VALVE BODY WITH 237 CV, 306 GPM, FAIL CLOSE)
  3. REPLACE EXISTING PNEUMATIC OPERATED CHILLED WATER CONTROL VALVE WITH NEW ELECTRIC ACTUATED CONTROL VALVE. (5" VALVE BODY WITH 237 CV, 306 GPM, FAIL CLOSE)
  4. REPLACE EXISTING PNEUMATIC OPERATED CHILLED WATER CONTROL VALVE WITH NEW ELECTRIC ACTUATED CONTROL VALVE. (5" VALVE BODY WITH 237 CV, 305 GPM, FAIL CLOSE)
  5. REPLACE EXISTING PNEUMATIC OPERATED CHILLED WATER CONTROL VALVE WITH NEW ELECTRIC ACTUATED CONTROL VALVE. (3" VALVE BODY WITH 83 CV, 152 GPM, FAIL CLOSE)
  6. REPLACE EXISTING PNEUMATIC OPERATED CHILLED WATER CONTROL VALVE WITH NEW ELECTRIC ACTUATED CONTROL VALVE. (3" VALVE BODY WITH 83 CV, 122 GPM, FAIL CLOSE)
  7. NOT USED
  8. REPLACE EXISTING PNEUMATIC OPERATED CHILLED WATER CONTROL VALVE WITH NEW ELECTRIC ACTUATED CONTROL VALVE. (4" VALVE BODY WITH 150 CV, 173 GPM, FAIL CLOSE)

**A** LEVEL 1 - MECH EQUIPMENT ROOM #2 HVAC PLAN  
SCALE: 1/8"=1'-0"  
NORTH



**B** LEVEL 1 - MECH EQUIPMENT ROOM #1 HVAC PLAN  
SCALE: 1/8"=1'-0"  
NORTH

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**ISSUE DATE:**  
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**SHEET NUMBER:**  
**M102**  
LEVEL 1 - MECHANICAL  
EQUIPMENT ROOM HVAC  
FLOOR PLANS

## ELECTRICAL SYMBOLS LIST

	DUPLIX CONVENIENCE OUTLET, +18" A.F.F. U.O.N., NUMBER DENOTES CIRCUIT, (EXAMPLE 3).
	SIMPLEX CONVENIENCE OUTLET, +18" A.F.F. U.O.N., NUMBER DENOTES CIRCUIT, (EXAMPLE 2).
	GFI DENOTES GROUND FAULT INTERRUPTER.
	WP DENOTES IN-USE WEATHERPROOF COVER.
	IG DENOTES ISOLATED GROUND.
	SPECIAL RECEPTACLE OUTLET CONFIGURATION.
	DOUBLE DUPLEX RECEPTACLE OUTLET.
	WALL MOUNTED JUNCTION BOX FOR POWER SERVICE TO PANEL SYSTEM. NUMBER DENOTES CIRCUIT, EXAMPLE: 1)
	JUNCTION BOX, NUMBER DENOTES CIRCUIT (EXAMPLE 1)
	FLOOR MOUNTED OUTLET FOR POWER SERVICE, DATA SERVICE, AND TELEPHONE SERVICE TO PANEL SYSTEM. PROVIDE FINAL CONNECTIONS TO PANEL SYSTEM. NUMBER DENOTES CIRCUIT TYPICAL (EXAMPLE: 1).
	COMBINATION POWER/TELEPHONE/DATA FLOOR BOX SERVICE FITTING.
	POWER SERVICE FOR FLOOR BOX SERVICE FITTING.
	TELEPHONE SERVICE FOR FLOOR BOX SERVING FITTING. INSTALL TELEPHONE COVERPLATE IN SERVICE FITTING.
	DATA CABLE SERVICE, +18" A.F.F. U.O.N., PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
	JUNCTION BOX WITH BLANK COVER PLATE +18" A.F.F. U.O.N., PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
	OUTLET FOR CABLE TV. +18" A.F.F. U.O.N. FURNISH AND INSTALL CONDUIT AND CABLE AS REQUIRED TO COMPLETE A FULLY OPERABLE SYSTEM.
	COMBINATION TELEPHONE/DATA SERVICE, +18" A.F.F. U.O.N. PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
	TELEPHONE OUTLET, +18" A.F.F. U.O.N. PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
	TELEPHONE OUTLET. WALL MOUNTED +46" A.F.F. U.O.N. PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
	FIRE ALARM CONTROL PANEL.
	ADA COMPLIANT FIRE ALARM MANUAL PULL STATION, +46" A.F.F. U.O.N. INTERFACE TO BASE BUILDING FIRE ALARM SYSTEM.
	ADA COMPLIANT STROBE LIGHT. MATCH BUILDING STANDARD. MOUNT BOTTOM OF DEVICE AT 80" A.F.F. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
	ADA COMPLIANT STROBE LIGHT WITH AUDIBLE ALARM. MATCH BUILDING STANDARD. MOUNT BOTTOM OF DEVICE AT 80" A.F.F. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
	ADA COMPLIANT CEILING MOUNTED STROBE LIGHT. MATCH BUILDING STANDARD. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
	ADA COMPLIANT CEILING MOUNTED STROBE LIGHT WITH AUDIBLE ALARM. MATCH BUILDING STANDARD. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
	ADA COMPLIANT FIRE ALARM VOICE ALARM SPEAKER. INTERFACE WITH FIRE ALARM SYSTEM.
	ADA COMPLIANT SMOKE DETECTOR, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
	ADA COMPLIANT SMOKE DETECTOR, DUCT MOUNTED, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. DETECTOR TO SHUTDOWN ASSOCIATED HVAC UNIT UPON ALARM.
	ADA COMPLIANT FIRE ALARM HORN, RECESSED, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
	ADA COMPLIANT CARBON MONOXIDE DETECTOR. MOUNT AT LEAST SWITCH HEIGHT AND AT LEAST 6" FROM CEILING AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. INTERCONNECT TO BASE BUILDING FIRE SYSTEM.
	SPRINKLER SYSTEM FLOW SWITCH. INTERCONNECT TO BASE BUILDING FIRE SYSTEM.
	VALVE POSITION INDICATOR, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
	DOOR HOLD OPEN DEVICE, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
	FIREMAN'S COMMUNICATION JACK.
	SOUND SYSTEM PAGING SPEAKER.

	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, NON-FUSED.
	COMBINATION STARTER, FUSED.
	COMBINATION STARTER, NON-FUSED.
	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.
	VARIABLE FREQUENCY CONTROLLER, PROVIDED BY ELECTRICAL
	ELECTRIC MOTOR, NIEC, MAKE CONNECTIONS ONLY. NUMBER DENOTES HORSEPOWER. (EXAMPLE: 2HP)
	PANELBOARD, SURFACE MOUNTED.
	PANELBOARD, RECESSED MOUNTED.
	CONDUIT RUN BELOW SLAB OR UNDERGROUND.
	CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET.
	CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS, EXCEPT NO CROSSMARKS INDICATE TWO #12 AWG CONDUCTORS.
	LONG CROSSMARKS INDICATE PHASE CONDUCTORS AND SHORT CROSSMARKS WITHOUT DESIGNATION ARE NEUTRAL CONDUCTORS. SHORT CROSSMARKS WITH "G" ARE SEPARATE EQUIPMENT GROUNDING CONDUCTORS.
	ALL CONDUCTORS SHALL BE #12 AWG U.O.N.
	ALL PVC CONDUITS SHOULD HAVE SEPARATE GROUNDING CONDUCTOR.
	FLEXIBLE METALLIC CONDUIT.
	EMERGENCY POWER OFF PUSHBUTTON WITH LIFT COVER +46" A.F.F. U.O.N.
	SINGLE POLE TOGGLE OR MOMENTARY CONTACT SWITCH, +46" A.F.F. U.O.N. "o" INDICATES FIXTURES SWITCHED. ALSO USED IN LOW VOLTAGE SWITCHING TO CONTROL REMOTE CONTACTOR OR IN DIRECT LINE VOLTAGE SWITCHING.
	THREE-WAY TOGGLE SWITCH, +46" A.F.F. U.O.N.
	WALL BOX DIMMER SWITCH, +46" A.F.F. U.O.N.
	WALL MOUNTED OCCUPANCY SENSOR WITH MANUAL OVER-RIDE SWITCH, +46" A.F.F. U.O.N.
	CEILING MOUNTED OCCUPANCY SENSOR.
	WALL MOUNTED OCCUPANCY SENSOR.
	LED OR FLUORESCENT FIXTURE. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, "o". UPPER CASE LETTER INDICATES FIXTURE TYPE, i.e. "B". NUMERAL INDICATES PANEL CIRCUIT NUMBER, i.e. "3". SWITCH, FIXTURE TYPE, AND CIRCUIT NUMBERS ARE TYPICAL FOR ALL LIGHTING FIXTURES. WHERE TWO SWITCHING DESIGNATIONS ARE SHOWN CIRCUIT ONE LAMP OF TWO LAMP FIXTURES AND OUTER LAMPS OF 3 AND 4 LAMP FIXTURES TO THE FIRST SWITCHING DESIGNATION SHOWN. AND THE REMAINING LAMP(S) TO THE SECOND DESIGNATION SHOWN.
	LED OR FLUORESCENT STRIP FIXTURE.
	LED, INCANDESCENT, FLUORESCENT OR H. I. D. FIXTURE.
	LED, INCANDESCENT, FLUORESCENT OR H. I. D. FIXTURE, WALL MOUNTED.
	LED, INCANDESCENT, FLUORESCENT OR H. I. D. SCENCE.
	LED, INCANDESCENT, FLUORESCENT OR H. I. D. WALL WASHER.
	WALL MOUNTED EGRESS FIXTURE.
	CEILING MOUNTED EGRESS FIXTURE.
	SINGLE FACE EXIT FIXTURE, CEILING OR WALL MOUNTED, PROVIDE DIRECTIONAL ARROW IF SHOWN. BRACKET DENOTES WALL MOUNTING. MOUNT FIXTURE FACE PARALLEL TO ADJACENT DOOR WHERE APPLICABLE.
	DOUBLE FACE EXIT FIXTURE, CEILING OR WALL MOUNTED, PROVIDE DIRECTIONAL ARROWS AS SHOWN. BRACKET DENOTES WALL MOUNTING. MOUNT FIXTURE FACE PERPENDICULAR TO ADJACENT DOOR WHERE APPLICABLE.
	NUMBERED NOTE: REFER TO SHEET CONTAINING NUMBERED NOTES.

	WIRELESS ACCESS POINT, FURNISHED AND INSTALLED BY OWNER. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR.
	SECURITY CAMERAS, FURNISHED AND INSTALLED BY OWNER. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR.
	DOOR STRIKE FOR SECURITY/ACCESS CONTROL. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR.
	BREAK GLASS DEVICE, CEILING MOUNTED FOR SECURITY/ACCESS CONTROL. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR.
	AUDIO/VISUAL DEVICE, WALL MOUNTED.
	TELEPHONE/POWER POLE
	MICROPHONE OUTLET, 18" A.F.F. U.O.N., PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
	CEILING OR WALL MOUNTED PHOTOCCELL.
	RECESSED CLOCK OUTLET, +80" A.F.F. U.O.N., NUMBER DENOTES CIRCUIT (EXAMPLE 1).
	CARD READER, +46" A.F.F. U.O.N.
	SOLENOID VALVE.
	DOOR POSITION MONITOR SWITCH.
	DOOR SWITCH, COORDINATE EXACT LOCATION WITH DOOR FRAMING.
	ELECTRIC DOOR LOCK, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
	HEAT DETECTOR, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
	GAS SENSOR
	GAS HORN, RECESSED TYPE.
	LIQUID SENSOR LOCATED BELOW RAISED FLOOR.
	DOOR RELEASE PUSHBUTTON, +46" A.F.F. U.O.N.
	KEY PAD.
	KEY OVERRIDE.
	INTERCOM, +46" A.F.F. U.O.N.
	BACKGROUND MUSIC SPEAKER
	WALL MOUNTED PUSHBUTTON FOR INTERCOM, +46" A.F.F. U.O.N.
	INTERRUPTION CAPACITY
	AMPS
	VOLTS
	ISOLATED GROUND
	GROUND
	PHASE DESIGNATION (EXAMPLE 3 PHASE)
	NUMBER OF CONDUCTORS (EXAMPLE 3 WIRES)
	CONDUIT SIZE (EXAMPLE 3" CONDUIT)

## ELECTRICAL DEMOLITION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING ELECTRICAL SERVICE TO ALL REMAINING AREAS OF THE FACILITY THROUGHOUT THE PROJECT EXCEPT DURING SCHEDULED SHUTDOWN TIMES. ANY SHUTDOWNS OF THE EXISTING FACILITY SHALL BE MUTUALLY AGREED UPON BY OWNER AND CONTRACTOR. CONTRACTOR SHALL GIVE OWNER MINIMUM OF TWO WEEKS NOTICE OF ANY SHUTDOWNS OF EXISTING FACILITY.
- CONTRACTOR SHALL SURVEY THE SITE TO CONFIRM FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THESE CONDITIONS.
- PRIOR TO REMOVAL OF ANY EXISTING WIRING OR CONDUIT, CONTRACTOR TO IDENTIFY POINT OF ORIGIN AND TERMINATION OF ANY EXISTING WIRING AND CONDUIT EFFECTED BY THIS SCOPE OF WORK. CONTRACTOR TO LABEL EXISTING TO REMAIN WIRING AND CONDUIT WITH WITH PANEL AND CIRCUIT NUMBER.
- CONTRACTOR TO COORDINATE DEMOLITION WITH OWNER.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER AS TO DISPOSITION OF ANY EXISTING SALVAGEABLE ELECTRICAL DEVICES, LIGHT FIXTURES, OR ELECTRICAL EQUIPMENT.
- CONTRACTOR SHOULD NOT START ANY OF THE DEMOLITION UNTIL ALL EQUIPMENT AND DEVICES ARE REMOVED THAT THE OWNER WANTS TO SALVAGE.
- CONTRACTOR SHOULD NOT BEGIN REMOVAL OF ANY OF THE TELEPHONE, DATA OR FIRE ALARM SYSTEMS UNTIL:
  - OWNER HAS REMOVED TELEPHONE OR DATA DEVICES.
  - CONTRACTOR HAS COORDINATED WITH OWNER THE DISPOSITION OF ALL TELEPHONE, DATA AND FIRE ALARM EQUIPMENT.
- REFER TO THE ARCHITECTURAL DEMOLITION PLANS AND DIVISION 1 SPECIFICATION FOR FURTHER INFORMATION.
- CONTRACTOR COORDINATE THE REUSE OF ANY EXISTING OUTLET/SWITCH BOXES IN WALLS SCHEDULED TO REMAIN. REFER TO THE ARCHITECTURAL DEMOLITION DOCUMENTS. CONTRACTOR SHALL REMOVE BRANCH CIRCUIT WIRING TO NEAREST ACCESSIBLE JUNCTION BOX.
- CONTRACTOR SHALL DIRECTLY SUPERVISE THE WORK FROM BEGINNING TO COMPLETION.
- ALL EXISTING FLOOR OUTLETS SHALL BE REMOVED AND THE SLAB PENETRATION SHALL BE REPAIRED TO RESTORE ORIGINAL FIRE RESISTANCE AND STRUCTURAL INTEGRITY.



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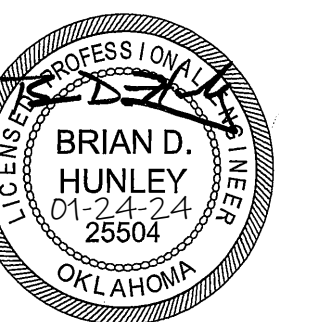
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REVISIONS:		
No	Description	Date

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ISSUE DATE:  
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SHEET NUMBER:

**E001**  
ELECTRICAL SYMBOLS  
LIST AND DEMOLITION  
NOTES

# ELECTRICAL GENERAL NOTES

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1. COMBINATION OF HOMERUN CIRCUITS SHALL BE AS FOLLOWS:

- A. ALL CIRCUITS WITH SEPARATE HOMERUN ARROWS SHALL BE INSTALLED IN DEDICATED CONDUITS. DO NOT COMBINE WITH OTHER BRANCH CIRCUITS.
- B. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO PANEL.
- C. A MAXIMUM OF SIX 20A BRANCH CIRCUIT PHASE CONDUCTORS IN COMMON HOMERUN.
- D. MINIMUM BRANCH CIRCUIT CONDUCTOR SHALL BE #12AWG, THHN.
- E. ALL 120V CIRCUITS SERVING NON-LIGHTING BRANCH CIRCUITS SHALL HAVE SEPARATE #12 AWG EQUIPMENT GROUNDING CONDUCTOR.

2. GROUNDING SYSTEM:

A. GENERAL:

1. EXCEPT AS OTHERWISE NOTED, THE COMPLETE ELECTRICAL INSTALLATION, INCLUDING THE NEUTRAL CONDUCTOR, METALLIC CONDUITS AND RACEWAYS, BOXES, CABINETS, AND EQUIPMENT SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ALL CODE REQUIREMENTS, WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY SHOWN OR SPECIFIED.

2. RESISTANCE FROM GROUNDED SURFACE OF THE ELECTRICAL SYSTEM TO THE GROUND ELECTRODE AND TO EARTH SHALL NOT EXCEED 5 OHMS.

B. DISTRIBUTION SYSTEM GROUNDING:

1. A BARE COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN A NON-METALLIC CONDUIT OR DUCT; THIS CONDUCTOR IS NOT SHOWN ON THE DRAWINGS.

C. BRANCH CIRCUIT GROUNDING:

1. ALL 120V CIRCUITS SERVING NON-LIGHTING BRANCH CIRCUITS SHALL HAVE SEPARATE GROUNDING CONDUCTORS.

3. IDENTIFYING DEVICES:

NAMEPLATES: TYPE NP; ENGRAVED BLACK BAKELITE. 1" X 3 1/2" MINIMUM, WITH 1/2" HIGH WHITE LETTERS, MACHINE SCREW RETAINED. FOR PERMANENT IDENTIFICATION OF ALL SWITCHBOARDS, CIRCUIT BREAKERS IN SEPARATE ENCLOSURES, MOTOR STARTERS, RELAYS, TIME SWITCHES AND OTHER CABINET-ENCLOSED APPARATUS INCLUDING TERMINAL CABINETS. THIS APPLIES TO ALL NEW EQUIPMENT AND ANY EXISTING ELECTRICAL EQUIPMENT.

4. CUTTING, PAINTING, AND PATCHING:

STRUCTURAL MEMBERS OR FLOOR SHALL IN NO CASE BE DRILLED, BORED OR NOTCHED IN SUCH A MANNER THAT WILL IMPAIR THEIR STRUCTURAL VALUE. CUTTING OF HOLES, IF REQUIRED, SHALL BE DONE WITH CORE DRILL AND ONLY WITH THE APPROVAL OF THE OWNER REPRESENTATIVE.

5. SUPERVISION:

CONTRACTOR SHALL PERSONALLY OR THROUGH AN AUTHORIZED AND COMPETENT REPRESENTATIVE CONSTANTLY SUPERVISE THE WORK FROM BEGINNING TO COMPLETION AND WITHIN REASON, KEEP THE SAME WORKMEN AND FOREMAN ON THE PROJECT THROUGHOUT THE PROJECT DURATION.

6. PENETRATIONS:

a. METAL SLEEVES: EXPOSED EXTERIOR CONDUIT RUNS PASSING THROUGH CONCRETE FLOORS OR WALLS. FOLLOWING CONDUIT INSTALLATION, SEAL ALL PENETRATIONS USING NON-IRON BEARING, CHLORIDE FREE, NON-SHRINKING, DRY-PAK GROUTING COMPOUND. CONDUITS PENETRATING EXTERIOR BUILDING WALLS AND BUILDING FLOOR SLAB SHALL BE RIGID STEEL.

b. FIRE SEPARATION WALLS/FLOORS: PACK OPENING AROUND CONDUITS OR CABLES WITH FIRE BARRIER CAULK 3M CP 25 NELSON FLAMESEAL.

7. ACCURACY:

a. DRAWINGS FOR THE WORK UNDER THIS SECTION ARE DIAGRAMMATIC.

b. CONTRACTOR SHALL VERIFY LINES, LEVELS AND DIMENSIONS SHOWN ON THE DRAWINGS AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE SETTING OUT OF WORK AND FOR ITS STRICT CONFORMANCE WITH EXISTING CONDITIONS AT THE SITE.

8. LOCATIONS OF CONDUIT RUNS:

PLAN IN ADVANCE OF THE INSTALLATION AND COORDINATE WITH DUCTWORK, PLUMBING, CEILING AND WALL CONSTRUCTION IN THE SAME AREAS AND NOT NECESSARILY CROSS OTHER CONDUITS OR PIPE, NOR PREVENT REMOVAL OF CEILING TILES OR PANELS, NOR BLOCK ACCESS TO MECHANICAL OR ELECTRICAL EQUIPMENT.

9. WHERE PRACTICAL, INSTALL CONDUITS IN GROUPS IN PARALLEL, VERTICAL, OR HORIZONTAL RUNS AND AT ELEVATIONS THAT AVOID UNNECESSARY OFF-SETS.

10. PROTECTION OF EQUIPMENT:

KEEP CONDUITS, JUNCTION BOXES, OUTLET BOXES AND OTHER OPENINGS CLOSED TO PREVENT ENTRY OF FOREIGN MATTER. COVER FIXTURES, EQUIPMENT, DEVICES, AND APPARATUS TO PROTECT THEM AGAINST DIRT, PAINT, WATER, CHEMICAL OR MECHANICAL DAMAGE, BEFORE AND DURING CONSTRUCTION PERIOD. RESTORE TO ORIGINAL CONDITION ANY FIXTURE, APPARATUS OR EQUIPMENT DAMAGED PRIOR TO FINAL ACCEPTANCE. INCLUDE RESTORATION OF DAMAGED SHOP COATS OF PAINT BEFORE FINAL ACCEPTANCE. PROTECT BRIGHT FINISHED SURFACES AND SIMILAR ITEMS UNTIL IN SERVICE. NO RUST OR DAMAGE WILL BE PERMITTED.

11. MATERIALS AND WORK SHALL BE DONE ACCORDING TO BASE BUILDING STANDARDS AND PRACTICES.

12. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF ALL GOVERNING CODES, RULES AND REGULATIONS, INCLUDING THE FOLLOWING MINIMUM STANDARDS, WHETHER STATUTORY OR NOT:

- NATIONAL ELECTRICAL CODE (NEC).
- 13. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- 14. INTERNATIONAL BUILDING CODE (IBC).
- 15. INTERNATIONAL MECHANICAL CODE (IMC)
- 16. AMERICAN DISABILITIES ACT (ADA)
- 17. BASE BUILDING SPECIFICATIONS

13. EQUIPMENT AND MATERIALS SPECIFIED UNDER THIS DIVISION SHALL CONFORM TO THE FOLLOWING STANDARDS WHERE APPLICABLE:

- 1. UNDERWRITER'S LABORATORIES (UL).
- 2. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM).
- 3. CERTIFIED BALLAST MANUFACTURERS (CBM).
- 4. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA).
- 5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
- 6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
- 7. ELECTRICAL TESTING LABORATORIES (ETL).

14. WHERE CEILING SPACE IS A RETURN AIR PLENUM, ALL WIRING IN CEILING SPACE MUST BE IN CONDUIT OR USE TEFLON JACKETED CABLE TO MEET RETURN AIR PLENUM REQUIREMENTS.

15. ALL BASE BUILDING 2X2 AND 2X4 RECESSED FLUORESCENT FIXTURES TO REMAIN SHALL HAVE THE LOUVER CLEANED AND RELAMPED. ALL ELECTRICAL DEVICES, 2X2 AND 2X4 FIXTURES SHALL BE BUILDING STANDARD U.O.N.

16. LIGHTING FIXTURES DESIGNATED AS "BUILDING STANDARD" MAY BE PURCHASED FROM OWNER STOCK (IF AVAILABLE) OR SHALL EXACTLY MATCH THE BUILDING STANDARD FIXTURES AS DEFINED BY THE OWNER.

17. CONTRACTOR TO LOCATE ALL LIGHTING FIXTURES PER ARCHITECTURAL REFLECTED CEILING PLANS.

18. ELECTRICAL CONTRACTOR TO COORDINATE THE MOUNTING HEIGHTS AND LOCATIONS OF ALL COMMUNICATION OUTLETS AND RECEPTACLES WITH ARCHITECTURAL DETAILS.

19. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR DEVICES. LOCATIONS SHALL BE IN ACCORDANCE WITH ALL UNDERWRITERS LABORATORIES AND LOCAL AUTHORITY REQUIREMENTS. IN NO CASE SHALL FIRE RATED POKE-THROUGH DEVICES BE INSTALLED LESS THAN 24" ON CENTER AND/OR MORE THAN ONE (1) PENETRATION PER 65 SQUARE FEET OF FLOOR AREA OF BEAM SPACE.

20. ALL EXISTING FLOOR OUTLETS WHICH ARE NOT USED FOR THIS IMPROVEMENT LEASE SHALL BE REMOVED AND THE SLAB PENETRATION SHALL BE REPAIRED TO RESTORE ORIGINAL FIRE RESISTANCE AND STRUCTURAL INTEGRITY.

21. IN AREAS WHERE COMMUNICATION OUTLETS ARE INSTALLED IN A WALL OF ROOM WITH GYPBOARD CEILING, CONTRACTOR SHALL INSTALL 3/4" CONDUIT FROM OUTLET TO ACCESSIBLE CEILING.

22. CONTRACTOR SHALL INSTALL A PULL STRING IN ALL EMPTY CONDUITS.

23. WHERE THERE ARE MORE THAN (1) SWITCH OR DIMMING DEVICE IN A LOCATION, CONTRACTOR SHOULD GANG DEVICES, PROVIDE AND INSTALL MULTI-GANG COVERPLATE.

24. SURFACE MOUNTED PANELS, DEVICES, AND RACEWAY WILL ONLY BE ALLOWED IN MECHANICAL AREAS U.O.N.

25. CONTRACTOR SHALL SURVEY SITE TO CONFIRM FIELD CONDITIONS SUCH AS LOCATION OF LIGHTING AND POWER JUNCTION BOXES, CONFIRM SPARE CIRCUITS IN PANELS, AND CONFIRM FIRE ALARM WIRING.

26. DRAWINGS SHOW FINAL LOCATION OF LIGHTING FIXTURES AND POWER OUTLETS. THEY DO NOT NECESSARILY SHOW ALL DEMOLITION OF ELECTRICAL DEVICES OR FIXTURES THAT SHOULD OCCUR. HOWEVER, ALTHOUGH NOT SPECIFICALLY SHOWN TO BE REMOVED, CONTRACTOR SHALL PERFORM NECESSARY DEMOLITION SUCH THAT THE FINAL ELECTRICAL SYSTEM REFLECTS THE LIGHTING AND POWER WHICH SHOWN ON THE PLAN DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THESE CONDITIONS.

27. THE SPACE ALLOCATION SHOWN ON THE PLAN DRAWINGS ARE BASED ON ONLY ONE MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED SWITCH GEAR (INCLUDING SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS) WILL SATISFY THE SPACE REQUIREMENTS SHOWN ON THE DRAWINGS.

28. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING ELECTRICAL SERVICE TO ALL REMAINING AREAS OF THE FACILITY THROUGHOUT THE PROJECT EXCEPT DURING SCHEDULED SHUTDOWN TIMES.

ANY SHUTDOWNS OF THE EXISTING FACILITY SHALL BE MUTUALLY AGREED UPON BY OWNER AND CONTRACTOR. CONTRACTOR SHALL GIVE OWNER MINIMUM OF TWO WEEKS NOTICE OF ANY SHUTDOWNS OF EXISTING FACILITY.

29. DURING BIDDING PROCESS, CONTRACTOR SHALL SURVEY EXISTING BUILDING SYSTEMS TO VERIFY EXTENT AND COMPATIBILITY WITH NEW ELECTRICAL SYSTEMS. CONTRACTOR SHALL INCLUDE MISCELLANEOUS DEVICES NECESSARY TO COMPLETE A FULL WORKING SYSTEM, FOR EXAMPLE MOTOR STARTER HEATERS AND STARTER EXHAUST CONTACTS.

30. ALL RECEPTACLES SHALL BE NEMA 5-20R U.O.N.

31. ALL 120V, 20 AMP HOME RUNS LONGER THAN 100' AND ALL 277V, 20 AMP HOME RUNS LONGER THAN 150' SHALL BE #10 MINIMUM.

32. FOLLOWING ADDITION OF NEW LOADS TO PANEL ON FLOOR FOR TENANT DEVELOPMENT, UPDATE PANEL SCHEDULE WITH SPACE AND LOAD ON TYPEWRITTEN CARD. MAKE COPY OF NEW PANEL SCHEDULE AND SUBMIT TO ENGINEER FOR APPROVAL FOLLOWING CONSTRUCTION COMPLETION.

33. FOLLOWING ADDITION AND TESTING OF EMERGENCY LIGHTING, UPDATE EMERGENCY LIGHTING PANEL SCHEDULE WITH FLOOR, SPACE AND LOAD. SUBMIT TEST RESULTS AND A COPY OF NEW PANEL SCHEDULE TO ENGINEER FOR APPROVAL FOLLOWING CONSTRUCTION COMPLETION.

34. TEST ALL NEW AND EXISTING FIRE ALARM DEVICES WITHIN THE TENANT SPACE, INCLUDING, BUT NOT LIMITED TO, MANUAL PULL STATIONS, STROBES AND VOICE EVACUATION SPEAKERS AND SUBMIT TEST RESULTS TO ENGINEER FOR APPROVAL FOLLOWING CONSTRUCTION COMPLETION.

35. CONTRACTOR SHALL ALLOW A MAXIMUM OF 5% VOLTAGE DROP ON ALL EMERGENCY BRANCH CIRCUITS THROUGHOUT THE AREAS UNDER THIS CONTRACT. CONTRACTOR SHOULD SIZE THE EMERGENCY BRANCH CIRCUITS FEEDERS ACCORDINGLY TO MAINTAIN THE MAXIMUM VOLTAGE DROP AS LISTED ABOVE.

36. CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATION OF 24" BETWEEN TELEPHONE CONDUIT AND PRIMARY CONDUIT.

37. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CIRCUITS SERVING THE PRESENT LEASE SPACE AND THE EXISTING SPARE CIRCUITS IN THE PANELBOARDS SERVING THIS LEASE. SPACE AND SHALL REPORT ANY FIELD CONDITIONS REQUIRING CIRCUITING DEVIATIONS IN WRITING TO THE ENGINEER FOR DIRECTION PRIOR TO PROCEEDING WITH CONSTRUCTION.

38. ALL EXISTING CONDUIT AND CONDUCTORS SERVING THE AREA UNDER CONTRACT NOT TO BE RE-USED SHALL BE TERMINATED AT LAST PORTION OF CIRCUIT REQUIRING ENERGIZATION BEFORE THE DEMOLITION AREA. IF A CIRCUIT SERVICES ONLY THE DEMOLITION AREA, REMOVE ALL CONDUITS AND CONDUCTORS BACK TO THE PANELBOARD AND DE-ENERGIZE THE CIRCUIT BREAKER, MAKING IT SPARE. NOTE SPARE ON PANELBOARD DIRECTORY.

39. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING STARTER TYPE, OVERLOAD SIZE, AND DISCONNECT SIZE FOR ALL MOTORS IN EACH AIR HANDLER UNIT ROOM WITH MECHANICAL CONTRACTOR.

40. CONTRACTOR TO REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF ALL FLOW SWITCHES. CONTRACTOR TO PROVIDE CONNECTION TO FLOW SWITCHES FROM FIRE ALARM SYSTEM. CONTRACTOR TO ALSO PROVIDE CONNECTION TO ALL TAMPER SWITCHES FOR EXACT LOCATIONS COORDINATE WITH FIRE PROTECTION (SPRINKLER) CONTRACTOR.

THE TAMPER SWITCHES WILL BE PROVIDED AT ALL FIRE PROTECTION VALVES EXCEPT FIRE DEPARTMENT HOSES.

41. ALL NEW ELECTRICAL PANELS SHALL BE INSTALLED A MINIMUM OF 86 FROM ADJACENT PERPENDICULAR WALLS (TO ALLOW FOR FUTURE INSTALLATION OF ELECTRICAL PANELS ON ADJACENT PERPENDICULAR WALLS).

42. INSTALL ALL TRANSFORMERS A MINIMUM OF 6" FROM WALLS.

43. SUBMITTALS

A. GENERAL: REFER TO GENERAL CONDITIONS FOR SUBMITTAL PROCEDURES AND REQUIREMENTS.

B. FORMAT: FURNISH SUBMITTAL DATA NEATLY BOUND IN AN 8-1/2" X 11" FOLDER OR BINDER WITH A TABLE OF CONTENTS LISTING SPECIFICATION SECTION. SUBMITTAL DATA ON ALL ELECTRICAL EQUIPMENT (PANELBOARDS, LIGHT FIXTURES, ETC.) SHALL BE MODIFIED, AS NECESSARY, TO BECOME "AS BUILT" DOCUMENTS.

C. SUBMITTALS SHALL CONSIST OF DETAILED SHOP DRAWINGS, SPECIFICATIONS, "CATALOG CUTS" AND DATA SHEETS CONTAINING PHYSICAL AND DIMENSIONAL INFORMATION, PERFORMANCE DATA, ELECTRICAL CHARACTERISTICS, MATERIALS USED IN FABRICATION, MATERIAL FINISH AND SHALL CLEARLY INDICATE THOSE OPTIONAL ACCESSORIES WHICH ARE INCLUDED AND THOSE WHICH ARE EXCLUDED.

D. SUBMIT SHOP DRAWINGS FOR:

1. PANELBOARDS.

E. SUBMIT MANUFACTURER'S DATA FOR:

- 1. LIGHTING FIXTURES.
- 2. WIRING DEVICES AND DEVICE PLATES (ALL TYPES).
- 3. FIRE ALARM DEVICES.
- 4. TRANSFORMERS.
- 5. DISCONNECT SWITCHES.
- 6. PANELBOARDS
- 7. MOTOR STARTERS
- 8. METERS

44. THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING THE SITE TO DETERMINE ALL EXISTING CONDITIONS RELATED TO THE NEW WORK. THIS INCLUDES ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE PROVISIONS FOR CROSSING, DISCONNECTING IN THE EVENT NEW UTILITY SERVICE TO BUILDING ARE ROUTED THRU THESE AREAS.



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PROJECT:

**PROJECT #**

**SP 23-2**

**TULSA**

**PERFORMING**

**ARTS CENTER -**

**PACKAGE No. 2**

**MECH., AV AND**

**THEATRICAL**

**LIGHTING**

**UPGRADES**

PROJECT NUMBER:

**202331.00**

CONSULTANT:

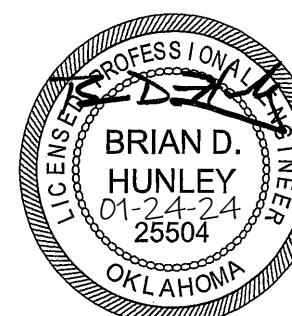
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ISSUE DATE:

**01.24.2024**

SHEET NUMBER:

**E002**

ELECTRICAL  
GENERAL NOTES

**PROJECT:**  
**PROJECT #**  
**SP 23-2**  
**TULSA**  
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**ARTS CENTER -**  
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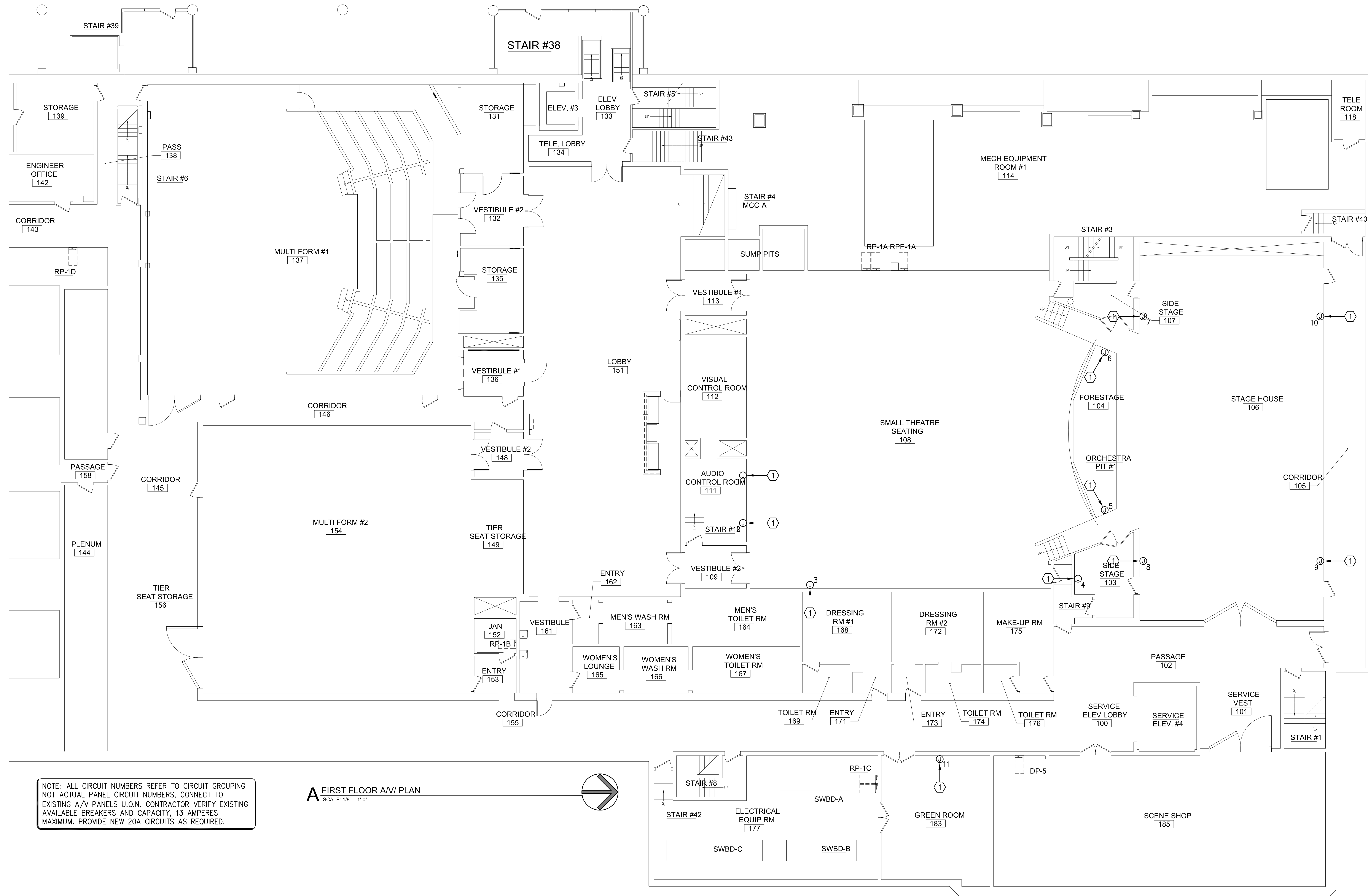
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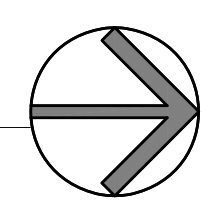
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**01.24.2024**

**SHEET NUMBER:**  
**E101**  
 FIRST FLOOR A/V PLAN



NOTE: ALL CIRCUIT NUMBERS REFER TO CIRCUIT GROUPING NOT ACTUAL PANEL CIRCUIT NUMBERS, CONNECT TO EXISTING A/V PANELS U.O.N. CONTRACTOR VERIFY EXISTING AVAILABLE BREAKERS AND CAPACITY, 13 AMPERES MAXIMUM. PROVIDE NEW 20A CIRCUITS AS REQUIRED.

**A FIRST FLOOR A/V PLAN**  
 SCALE: 1/8" = 1'-0"



**PROJECT:**  
**PROJECT #**  
**SP 23-2**  
**TULSA**  
**PERFORMING**  
**ARTS CENTER -**  
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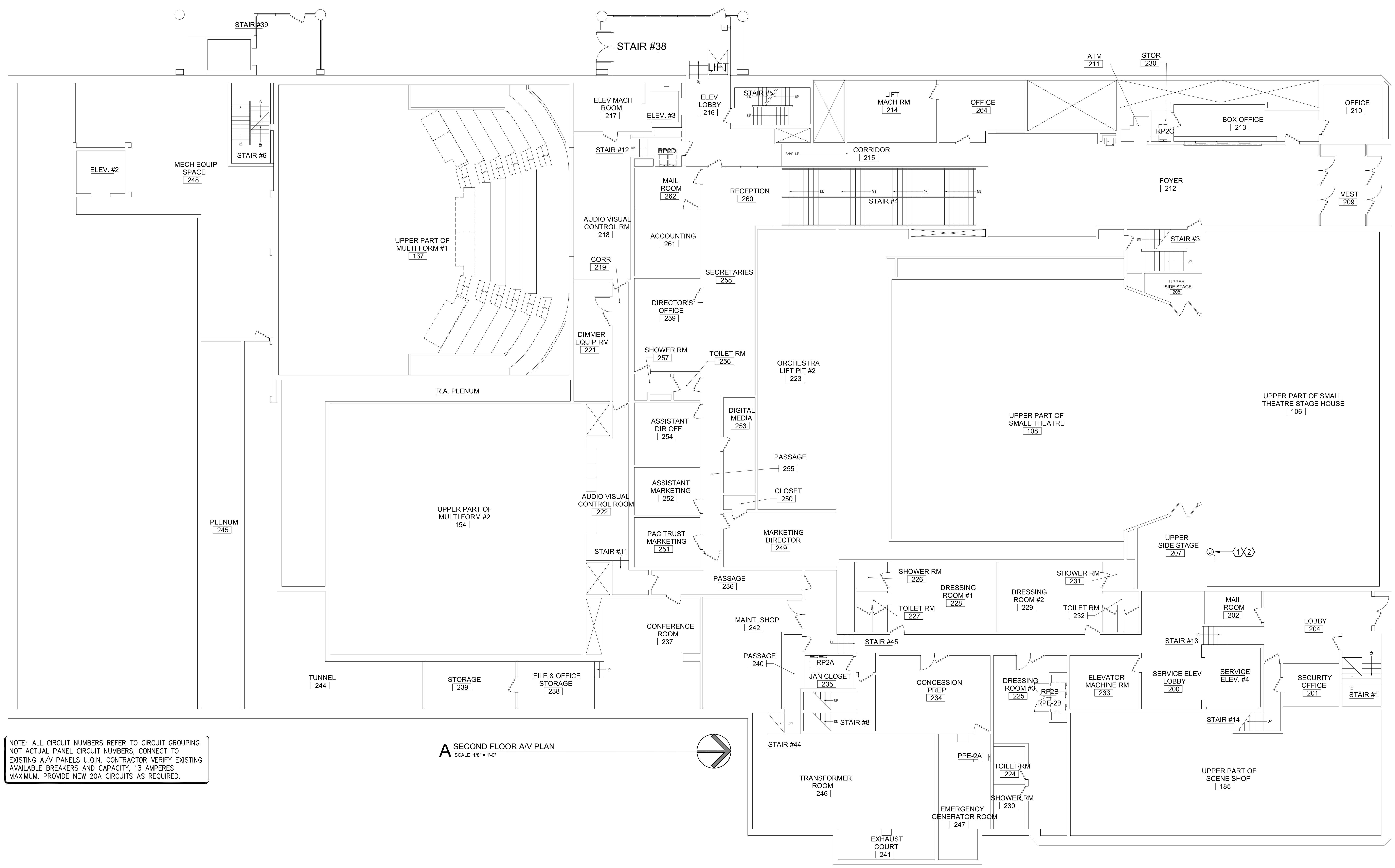
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**ISSUE DATE:**  
**01.24.2024**

**SHEET NUMBER:**  
**E102**  
 SECOND FLOOR AV PLAN



NOTE: ALL CIRCUIT NUMBERS REFER TO CIRCUIT GROUPING NOT ACTUAL PANEL CIRCUIT NUMBERS, CONNECT TO EXISTING A/V PANELS U.O.N. CONTRACTOR VERIFY EXISTING AVAILABLE BREAKERS AND CAPACITY, 13 AMPERES MAXIMUM. PROVIDE NEW 20A CIRCUITS AS REQUIRED.

**A SECOND FLOOR AV PLAN**  
 SCALE: 1/8" = 1'-0"



# ELECTRICAL NUMBERED NOTES

1. PROVIDE JUNCTION BOX FOR ELECTRICAL SERVICE TO NEW AV DEVICE. CIRCUIT AS INDICATED. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH AV DRAWINGS.
2. PROVIDE ONE(1)-50A, 1-POLE CIRCUIT BREAKER INTO EXISTING PANEL. RP-ISAMP TO FEED TO AMPLIFIER. BRANCH CIRCUIT SHALL BE 2#8, 1#10GND, 3/4"Ø.
3. REPLACE EXISTING FIXTURE WITH NEW PORTFOLIO LD6C-10-90-4K-D010-M-LI. RE-USE EXISTING CIRCUITING. PROVIDE WITH 1000 LUMENS, 4000K COLOR TEMPERATURE AND 120V OPERATION.
4. PROVIDE SELF LUMINOUS TRITIUM EXIT SIGN. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.
5. PROVIDE COMBINATION SMOKE/HEAT DETECTOR. CONNECT TO EXISTING FIRE ALARM SYSTEM.



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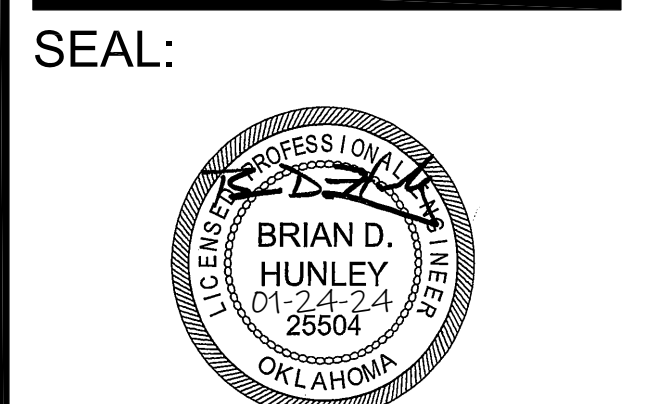
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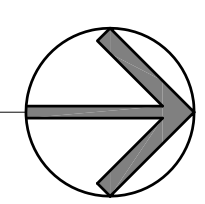
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**SHEET NUMBER:**  
**E103**  
 THIRD FLOOR AV PLAN



NOTE: ALL CIRCUIT NUMBERS REFER TO CIRCUIT GROUPING NOT ACTUAL PANEL CIRCUIT NUMBERS, CONNECT TO EXISTING A/V PANELS U.O.N. CONTRACTOR VERIFY EXISTING AVAILABLE BREAKERS AND CAPACITY, 13 AMPERES MAXIMUM. PROVIDE NEW 20A CIRCUITS AS REQUIRED.

**A THIRD FLOOR AV PLAN**  
 SCALE: 1/8" = 1'-0"







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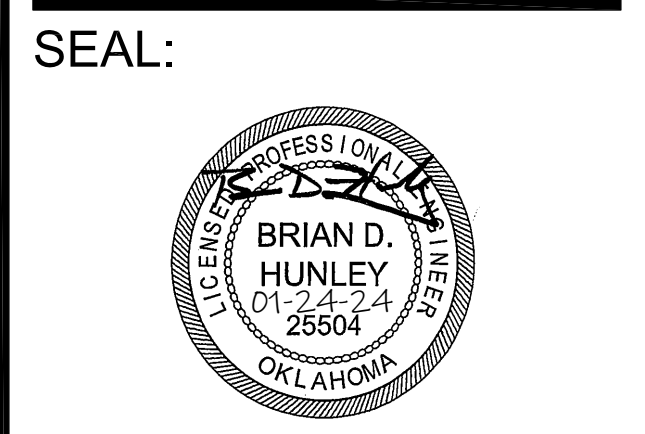
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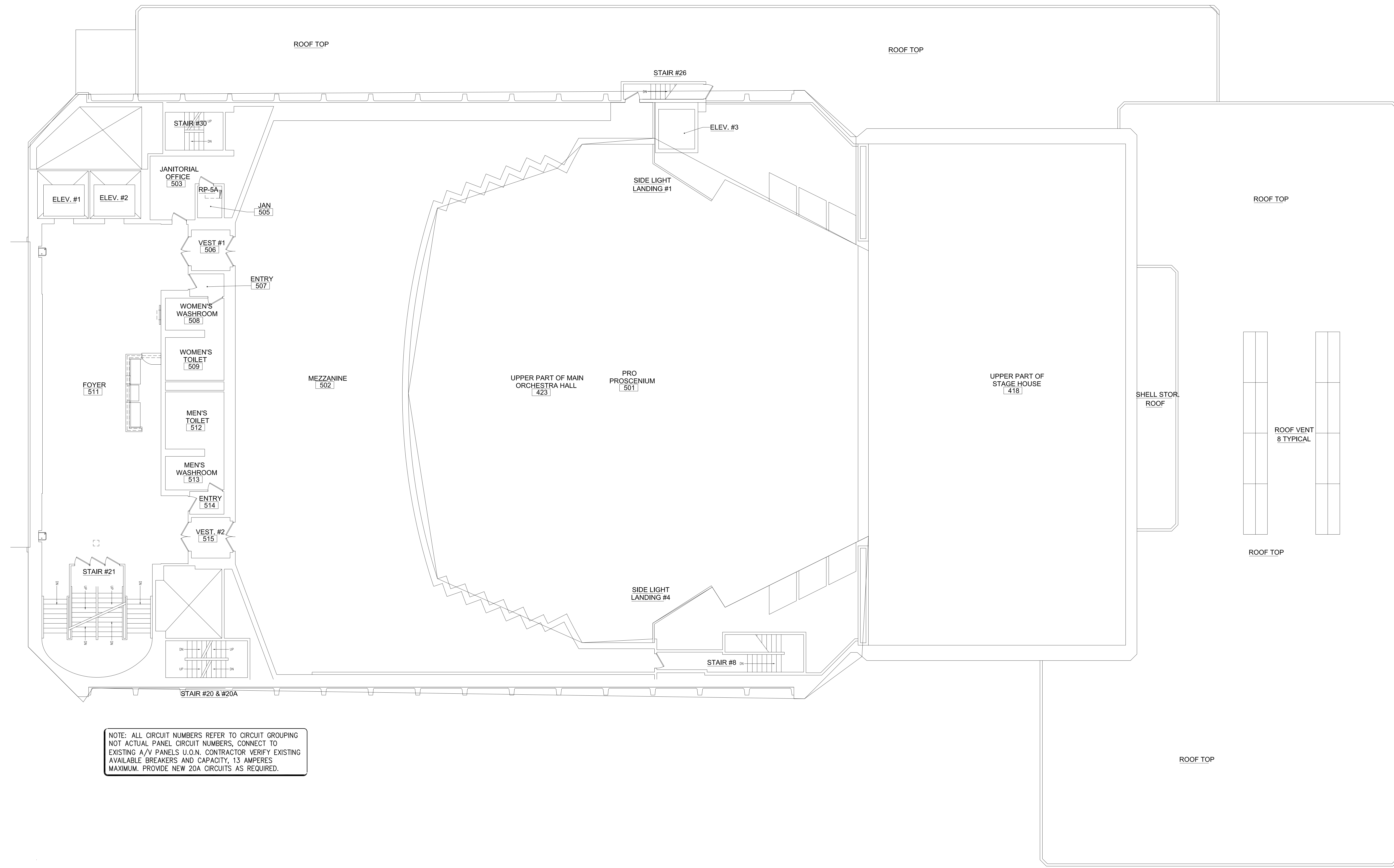
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**ISSUE DATE:**  
**01.24.2024**

**SHEET NUMBER:**  
**E105**  
 FIFTH FLOOR AV  
 PLAN



NOTE: ALL CIRCUIT NUMBERS REFER TO CIRCUIT GROUPING NOT ACTUAL PANEL CIRCUIT NUMBERS, CONNECT TO EXISTING A/V PANELS U.O.N. CONTRACTOR VERIFY EXISTING AVAILABLE BREAKERS AND CAPACITY, 13 AMPERES MAXIMUM. PROVIDE NEW 20A CIRCUITS AS REQUIRED.

**A** FIFTH FLOOR AV PLAN  
 SCALE: 1/8" = 1'-0"



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**UPGRADES**

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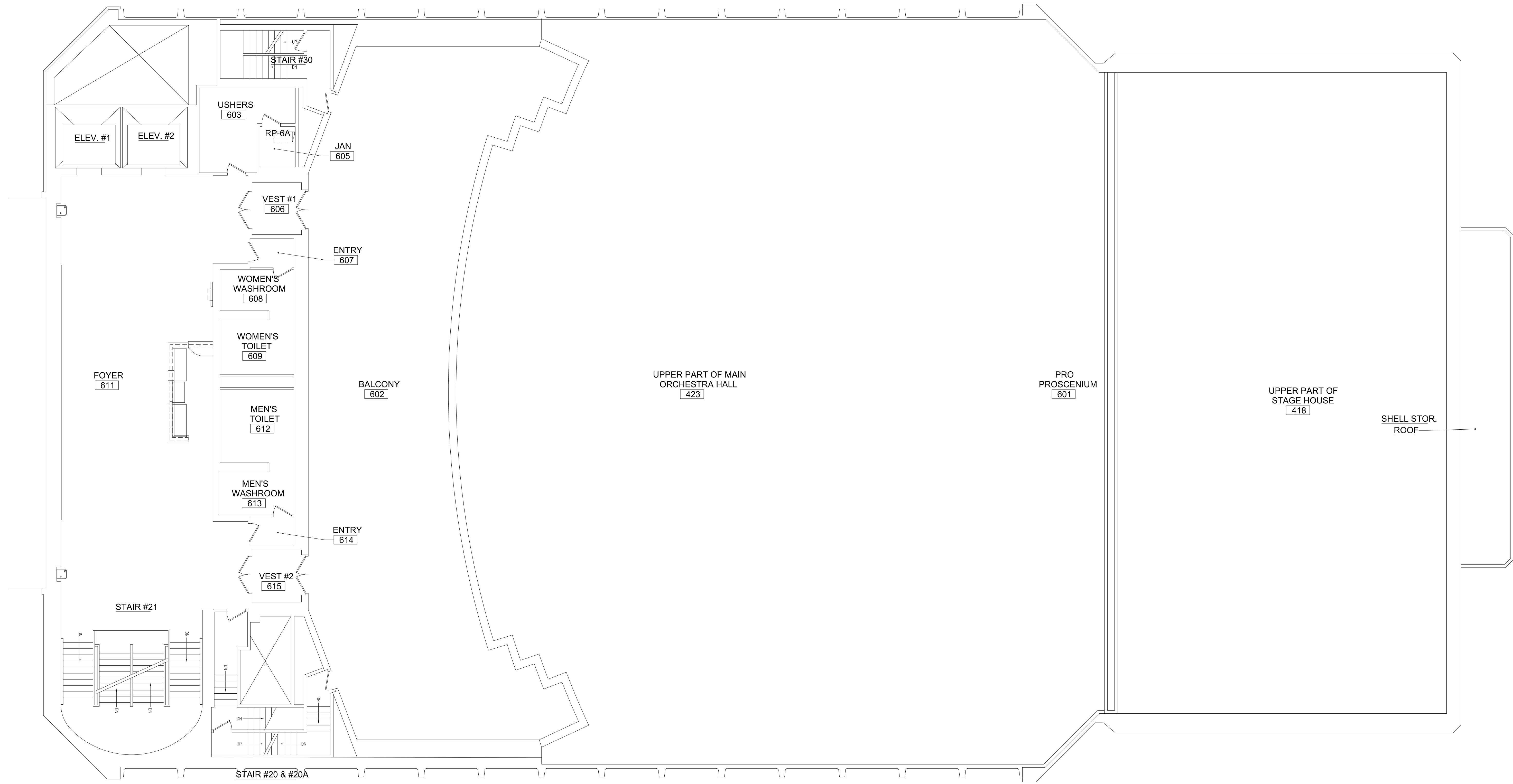
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**01.24.2024**

**SHEET NUMBER:**  
**E106**  
 SIXTH FLOOR AV  
 PLAN



NOTE: ALL CIRCUIT NUMBERS REFER TO CIRCUIT GROUPING NOT ACTUAL PANEL CIRCUIT NUMBERS, CONNECT TO EXISTING A/V PANELS U.O.N. CONTRACTOR VERIFY EXISTING AVAILABLE BREAKERS AND CAPACITY, 13 AMPERES MAXIMUM. PROVIDE NEW 20A CIRCUITS AS REQUIRED.

**A** SIXTH FLOOR AV PLAN  
 SCALE: 1/8" = 1'-0"