

ORANGE WATER AND SEWER AUTHORITY (OWASA)

ADMINISTRATION BUILDING

400 JONES FERRY ROAD
CARRBORO, NORTH CAROLINA

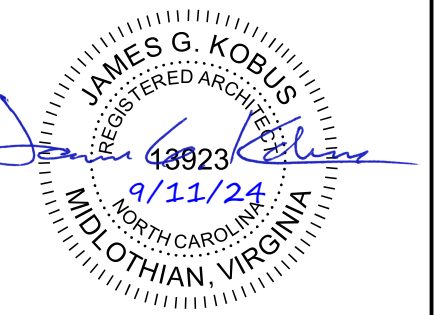
MONUMENTAL STAIR RENOVATION

ISSUE FOR BID SUBMISSION

SEPTEMBER 11, 2024



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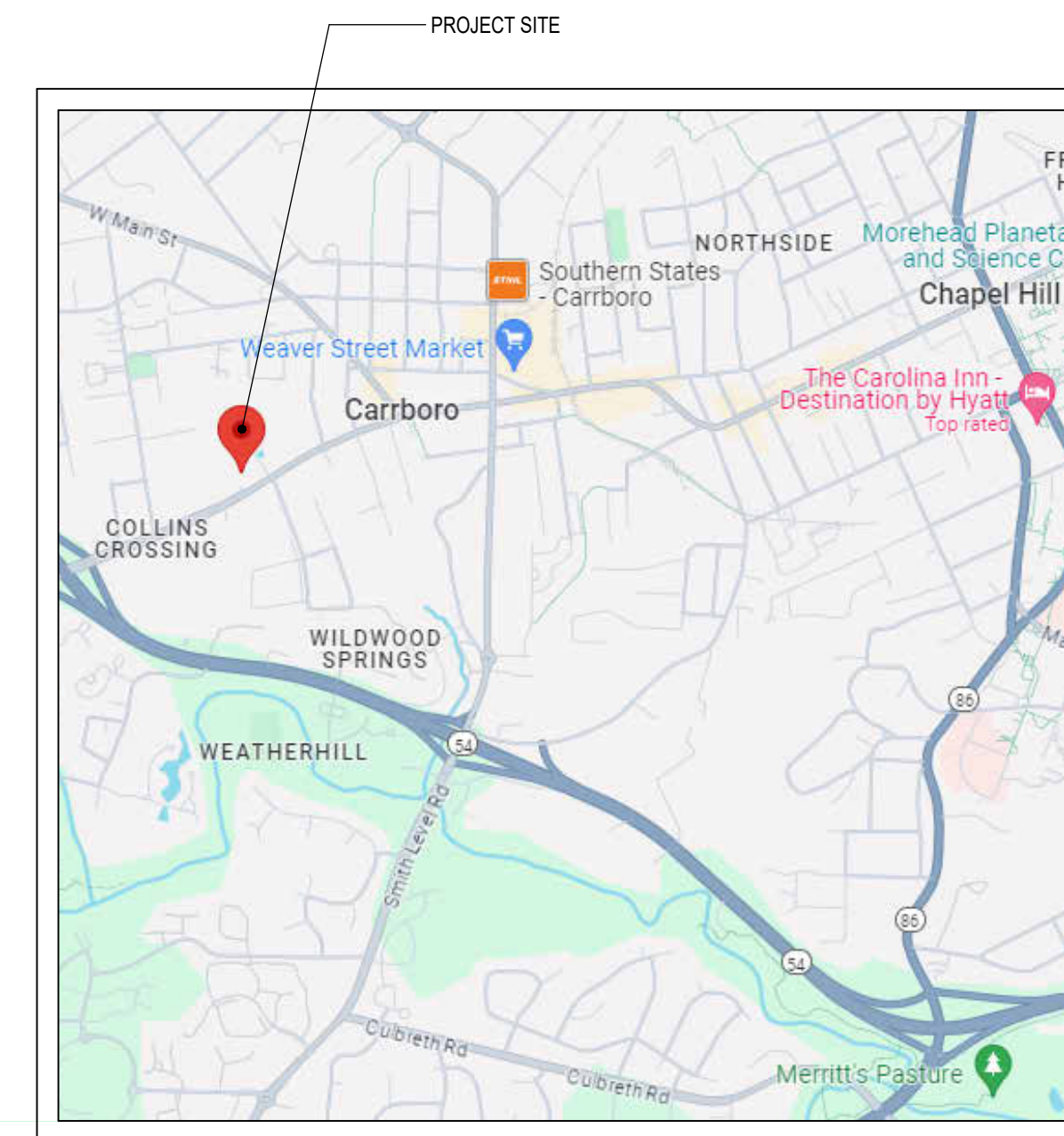


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MONUMENTAL STAIR RENOVATION

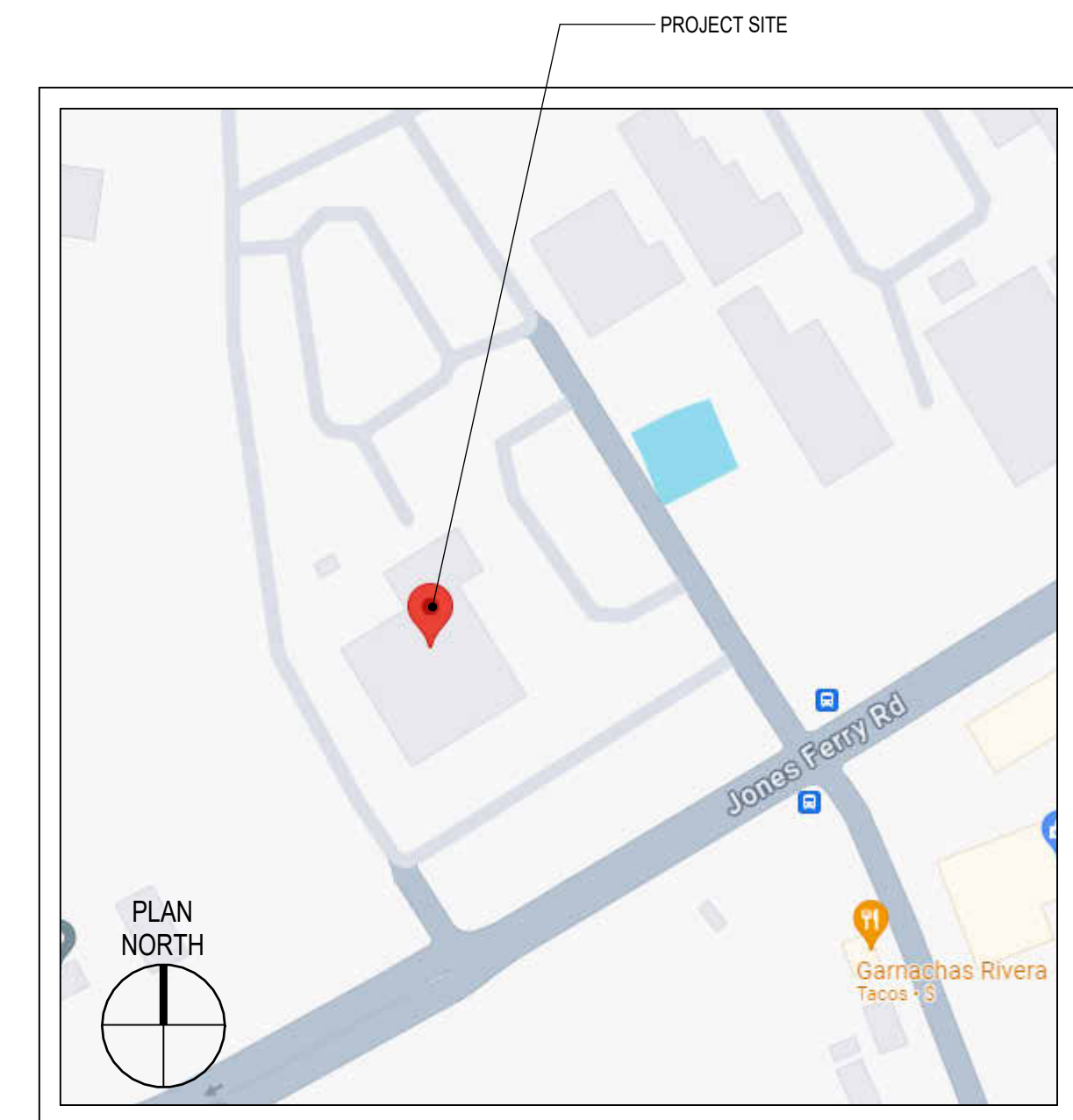
400 JONES FERRY ROAD CARRBORO, NC 27510

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- E-401 ELECTRICAL PLANS



VICINITY MAP

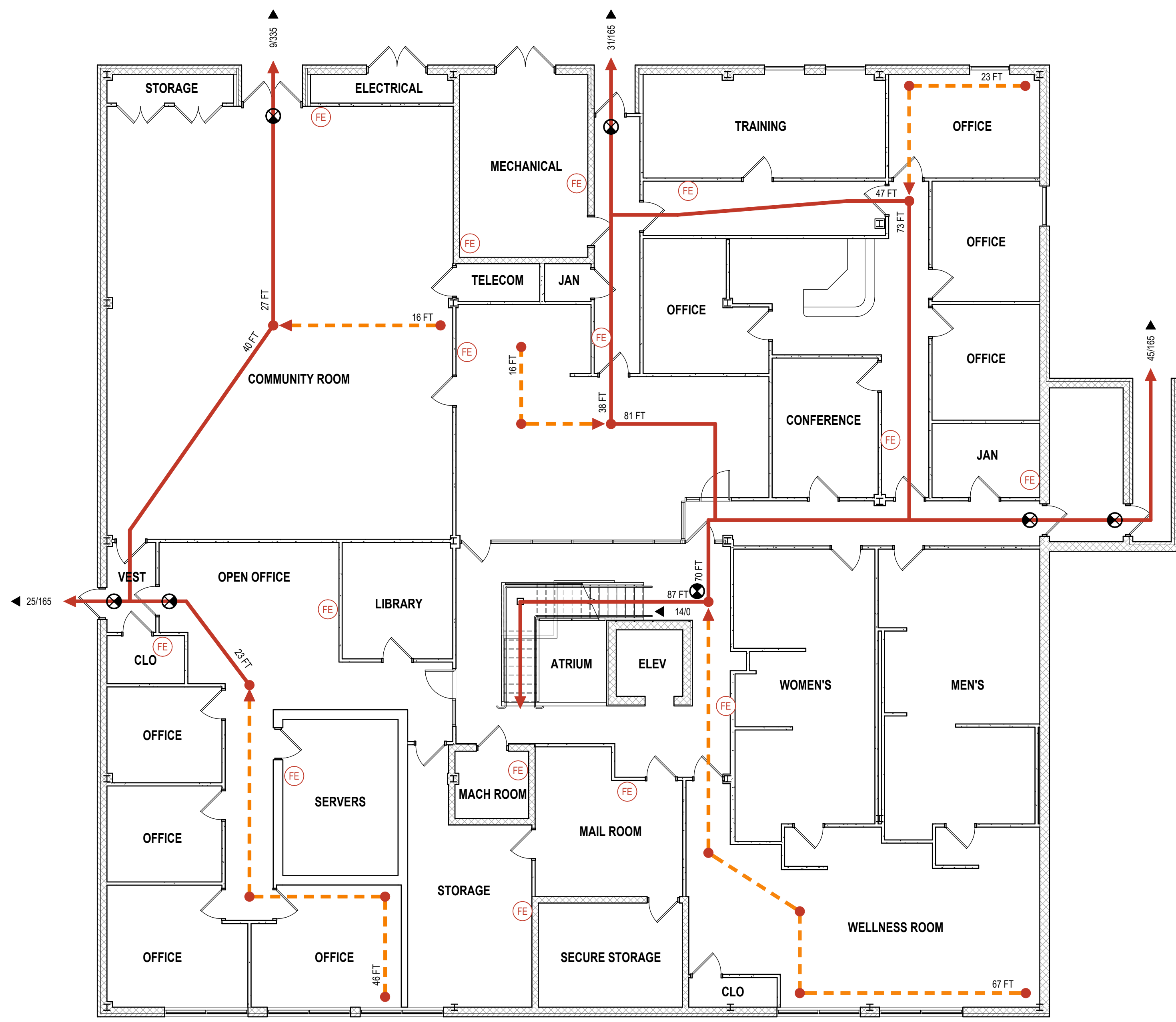


LOCATION MAP

MRK	DATE	REVISION DESCRIPTION

COMM NO:	230230
DATE:	9/11/2024
DRAWN:	JGK
DESIGN:	JGK
CHECK:	BWS
SHEET TITLE:	COVER SHEET
SHT. NO.	G-001
REV. NO.	

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2 LOWER LEVEL LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

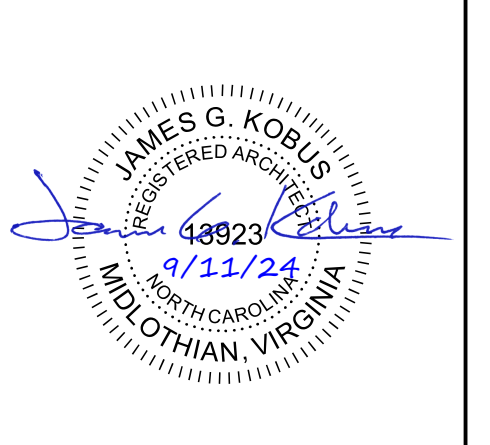
1. THIS SHEET IS PROVIDED FOR GENERAL COMPLIANCE OF NORTH CAROLINA BUILDING CODE. ALTERATIONS MUST BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION THAT EXISTS FOR THE MEANS OF EGRESS.
2. LIFE SAFETY ANALYSIS WAS CONDUCTED AS A CURSORY REVIEW OF EXISTING CONDITIONS TO DETERMINE LEVEL OF PROTECTION.

LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
00 FT	EGRESS PATH & TRAVEL DISTANCE
00 FT	COMMON PATH OF TRAVEL & DISTANCE
FE	FIRE EXTINGUISHER
AED	AUTOMATIC EXTERNAL DEFIBRILLATOR
X	EXIT DEVICE
0/165	DOOR EGRESS CAPACITY: CALCULATED / MAX CAPACITY
---	TEMPORARY CONSTRUCTION BARRIER
00 FT	TEMPORARY EGRESS PATH DURING CONSTRUCTION

OCCUPANCY COUNTS

OCCUPANCY AND USE	AREA	OCCUPANCY FACTOR	OCC CAPACITY
LOWER LEVEL			
ASSEMBLY	640 SF	15	43
BUSINESS	7,700 SF	100	77
MECHANICAL/ELECTRICAL	720 SF	300	3
STORAGE	180 SF	300	1
	9,240 SF		124
UPPER LEVEL			
ASSEMBLY	650 SF	15	44
BUSINESS	10,950 SF	100	110
	11,600 SF		154

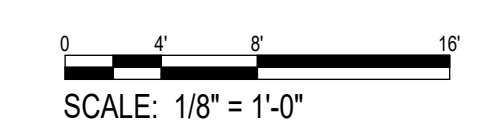


**ORANGE WATER AND SEWER
 AUTHORITY (OWASA)
 ADMINISTRATION BUILDING
 MONUMENTAL STAIR RENOVATION**

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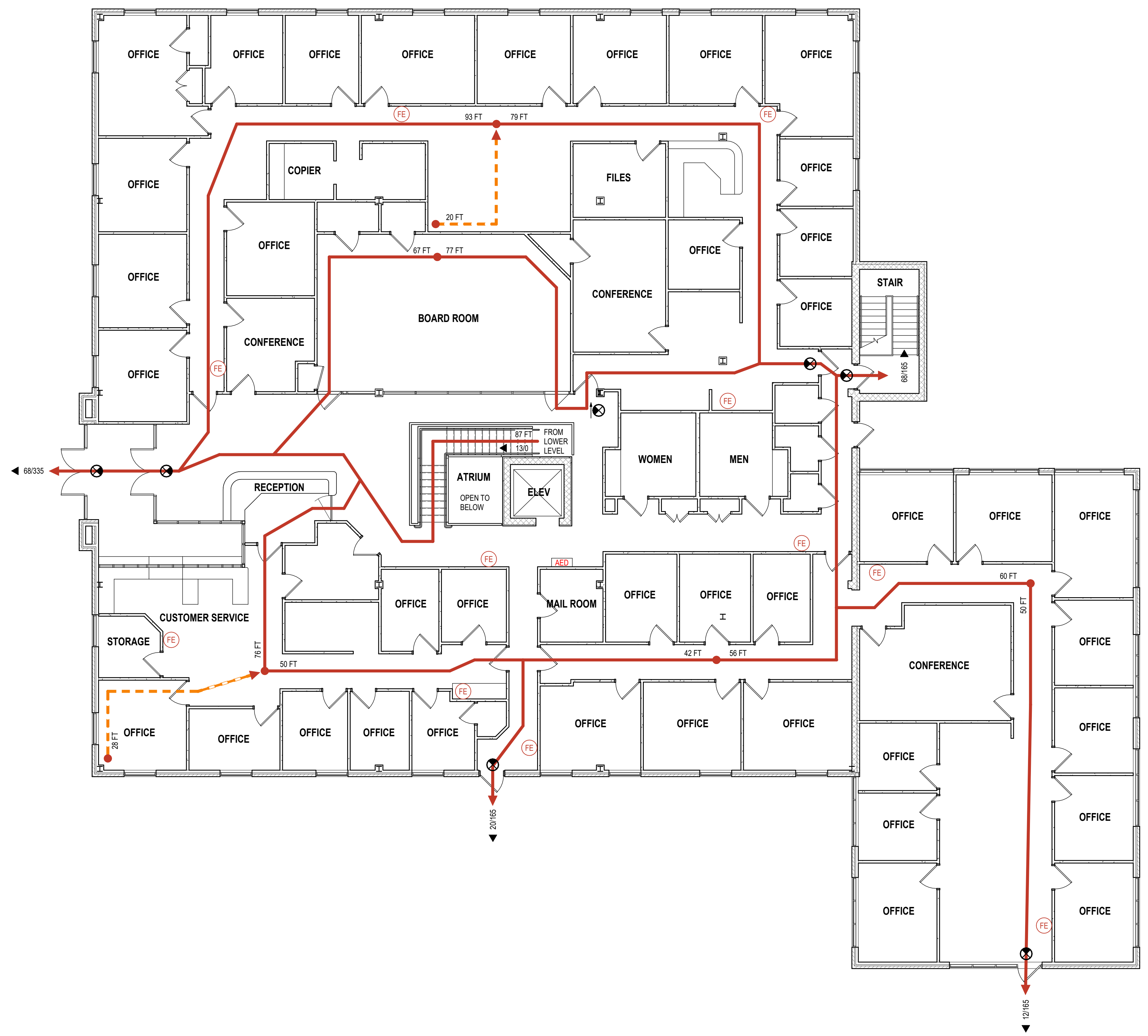
GRAPHIC SCALE(S)



SHEET TITLE
LOWER LEVEL LIFE SAFETY PLAN
 SHT. NO. **AL001** REV. NO.

E
D
C
B
A

6 5 4 3 2 1



1 UPPER LEVEL LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- 1. THIS SHEET IS PROVIDED FOR GENERAL COMPLIANCE OF NORTH CAROLINA BUILDING CODE. ALTERATIONS MUST BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION THAT EXISTS FOR THE MEANS OF EGRESS.
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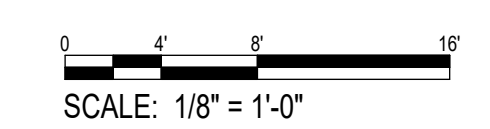
LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
	EGRESS PATH & TRAVEL DISTANCE
	COMMON PATH OF TRAVEL & DISTANCE
	FIRE EXTINGUISHER
	AUTOMATIC EXTERNAL DEFIBRILLATOR
	EXIT DEVICE
	DOOR EGRESS CAPACITY: CALCULATED / MAX CAPACITY
	TEMPORARY CONSTRUCTION BARRIER
	TEMPORARY EGRESS PATH DURING CONSTRUCTION

OCCUPANCY COUNTS

OCCUPANCY AND USE	AREA	OCCUPANCY FACTOR	OCC CAPACITY
LOWER LEVEL			
ASSEMBLY	640 SF	15	43
BUSINESS	7,700 SF	100	77
MECHANICAL/ELECTRICAL	720 SF	300	3
STORAGE	180 SF	300	1
	9,240 SF		124
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ASSEMBLY	650 SF	15	44
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	11,600 SF		154

GRAPHIC SCALE(S)



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Professional seal for James G. Kollu, Registered Architect, License No. 43923, State of North Carolina, expires 9/11/24.

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MONUMENTAL STAIR RENOVATION

400 JONES FERRY ROAD CARRBORO, NC 27510

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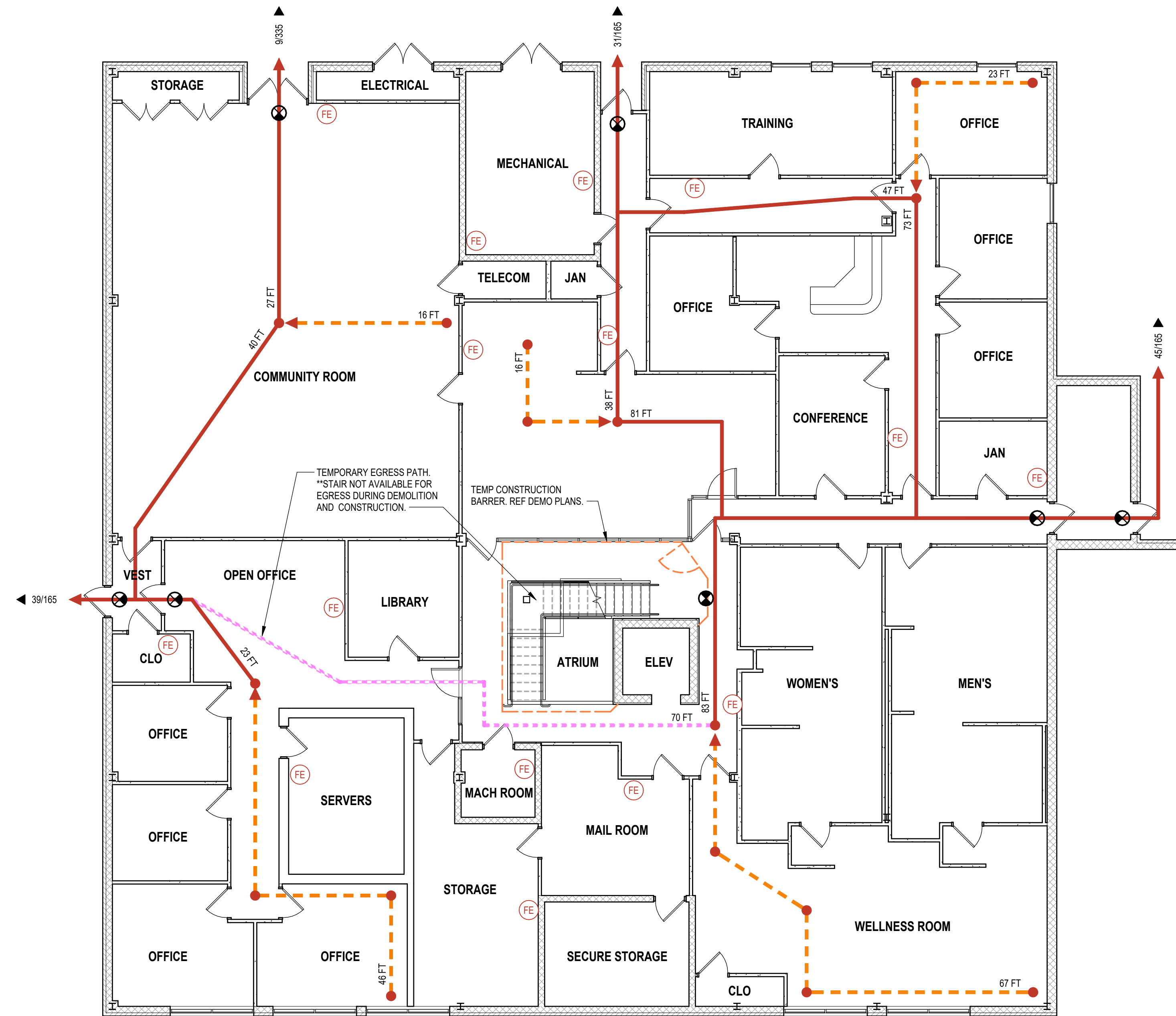
SHEET TITLE
UPPER LEVEL LIFE SAFETY PLAN

SHT. NO. AL002	REV. NO.
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E
D
C
B
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6 5 4 3 2 1



TEMPORARY EGRESS PATH.
 *STAIR NOT AVAILABLE FOR
 EGRESS DURING DEMOLITION
 AND CONSTRUCTION.

TEMP CONSTRUCTION
 BARRIER. REF DEMO PLANS.

2 LOWER LEVEL TEMPORARY LIFE SAFETY PLAN

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

GENERAL SHEET NOTES

- 1. THIS TEMPORARY LIFE SAFETY PLAN IS SUPPLEMENTAL TO THE CONTRACT DOCUMENTS. THE CONTRACTOR IS STILL RESPONSIBILITY TO PROVIDE A CONSTRUCTION SCHEDULE, SELECTIVE DEMOLITION, NOISE CONTROL, SAFETY GUIDELINES, DUST CONTROL, AND RELAY REPORTS AND PLANNING DOCUMENTS.
- 2. LIFE SAFETY ANALYSIS WAS CONDUCTED AS A CURSORY REVIEW OF EXISTING CONDITIONS TO DETERMINE LEVEL OF PROTECTION.

LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
	EGRESS PATH & TRAVEL DISTANCE
	COMMON PATH OF TRAVEL & DISTANCE
	FIRE EXTINGUISHER
	AUTOMATIC EXTERNAL DEFIBRILLATOR
	EXIT DEVICE
	DOOR EGRESS CAPACITY: CALCULATED / MAX CAPACITY
	TEMPORARY CONSTRUCTION BARRIER
	TEMPORARY EGRESS PATH DURING CONSTRUCTION

OCCUPANCY COUNTS

OCCUPANCY AND USE	AREA	OCCUPANCY FACTOR	OCC CAPACITY
LOWER LEVEL			
ASSEMBLY	640 SF	15	43
BUSINESS	7,700 SF	100	77
MECHANICAL/ELECTRICAL	720 SF	300	3
STORAGE	180 SF	300	1
	9,240 SF		124
UPPER LEVEL			
ASSEMBLY	650 SF	15	44
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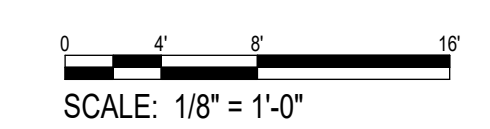


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GRAPHIC SCALE(S)



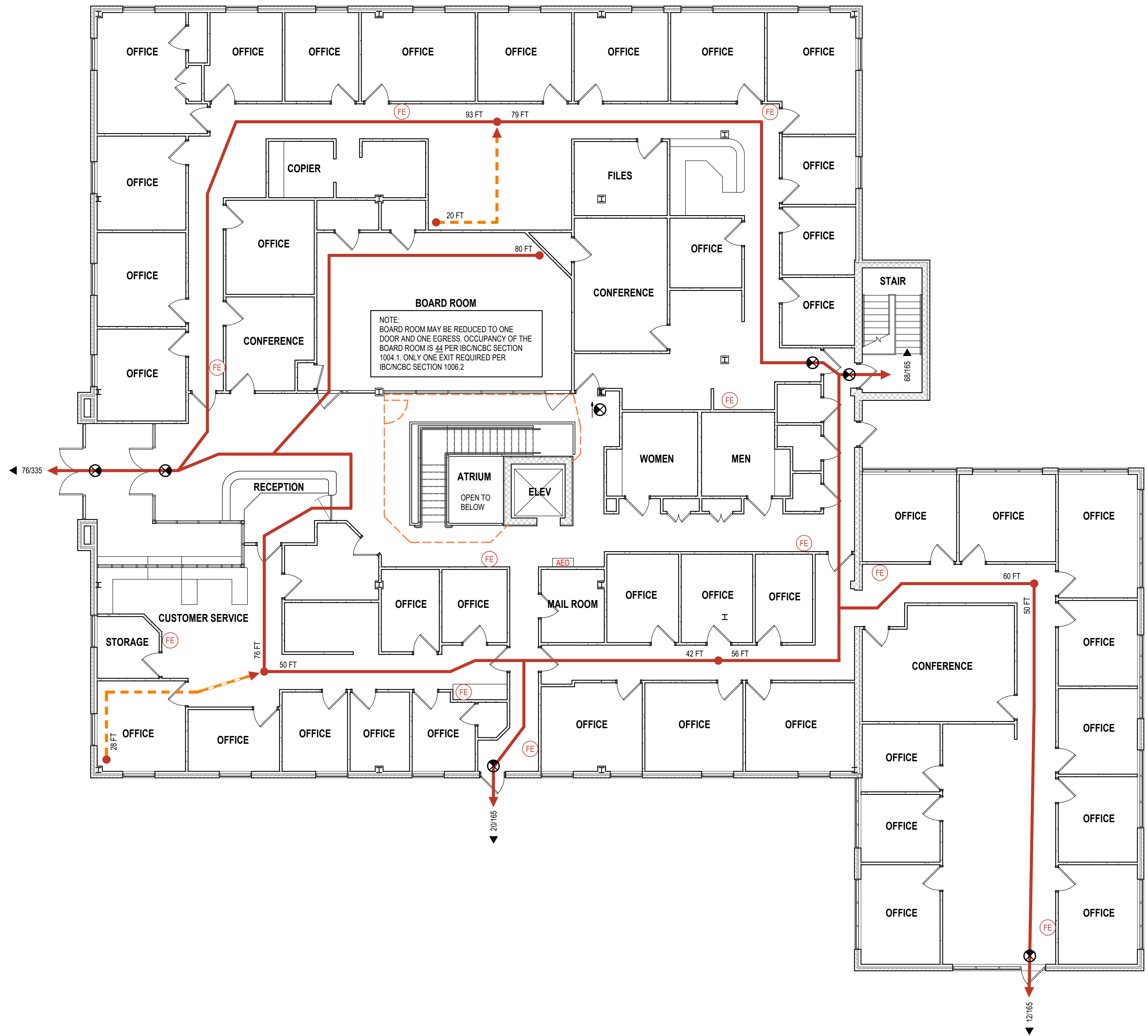
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LOWER LEVEL TEMPORARY LIFE SAFETY PLAN	
SHT. NO.	REV. NO.
AL003	

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1 UPPER LEVEL LIFE SAFETY EGRESS PLAN

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



GENERAL SHEET NOTES

- THIS TEMPORARY LIFE SAFETY PLAN IS SUPPLEMENTAL TO THE CONTRACT DOCUMENTS. THE CONTRACTOR IS STILL RESPONSIBLE TO PROVIDE A CONSTRUCTION SCHEDULE, SELECTIVE DEMOLITION, NOISE CONTROL, SAFETY GUIDELINES, DUST CONTROL, AND RELAY REPORTS AND PLANNING DOCUMENTS.
- LIFE SAFETY ANALYSIS WAS CONDUCTED AS A CURSORY REVIEW OF EXISTING CONDITIONS TO DETERMINE LEVEL OF PROTECTION.

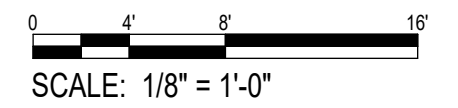
LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
	EGRESS PATH & TRAVEL DISTANCE
	COMMON PATH OF TRAVEL & DISTANCE
	FIRE EXTINGUISHER
	AUTOMATIC EXTERNAL DEFIBRILLATOR
	EXIT DEVICE
	DOOR EGRESS CAPACITY: CALCULATED / MAX CAPACITY
	TEMPORARY CONSTRUCTION BARRIER
	TEMPORARY EGRESS PATH DURING CONSTRUCTION

OCCUPANCY COUNTS

OCCUPANCY AND USE	AREA	OCCUPANCY FACTOR	OCC CAPACITY
LOWER LEVEL			
ASSEMBLY	640 SF	15	43
BUSINESS	7,700 SF	100	77
MECHANICAL/ELECTRICAL	720 SF	300	3
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	9,240 SF		124
UPPER LEVEL			
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SHEET TITLE
**UPPER LEVEL
TEMPORARY LIFE SAFETY
PLAN**

SHT. NO. **AL004** REV. NO.

ARCHITECTURAL SYMBOLS

PLAN DRAWING TITLES

A1 VIEW TITLE
SCALE: 1/8" = 1'-0"

PLAN NORTH

SECTION, DETAIL AND ELEVATION DRAWING TITLES

A1 VIEW TITLE
SCALE: 1/8" = 1'-0"

TRUE NORTH

GRAPHIC SCALE
0' 2' 4' 8'
1/4" = 1'-0"

BUILDING SECTION

INTERIOR ELEVATION

KEYNOTE TAGS
DEMOLITION NEW WORK

WALL SECTION

BUILDING ELEVATION

COLUMN GRID

CEILING TAG
(8'-0" AFF)

ENLARGED PLAN / DETAIL CALLOUT

DETAIL MARKER

LEVEL MARKER
LEVEL 10'-0"

BENCHMARK / START POINT
OPTIONAL LABEL
SMALL MEDIUM LARGE

FIXTURE & EQUIPMENT TAG

MATERIALS LEGEND

MATERIALS (SECTION)

ALUMINUM
BRICK
CONCRETE MASONRY UNIT
CONCRETE (CAST-IN-PLACE)
EARTH (COMPACTED)
EARTH (UNDISTURBED)
FINISH WOOD
GRAVEL (SUBBASE)
MARBLE
POROUS FILL
RIGID INSULATION
STEEL

THIN MATERIALS (SECTION / ENLARGED)

GYPNUM or PLASTER
PLASTER ON METAL LATH
PLYWOOD
ORIENTED STRAND BOARD (OSB)
GLASS (LARGE SCALE)
MEDIUM-DENSITY FIBERBOARD (MDF)
ACOUSTICAL CEILING PANEL

MATERIALS (ELEVATION)

BRICK
CONCRETE MASONRY UNIT (CMU)
GYPSUM OR PLASTER
STONE (RUBBLE)
STONE (STACKED STONE)
CORRUGATED METAL SIDING (PATTERN VARIES)
GLAZING
SHINGLES

FLOORING MATERIALS (SECTION / ENLARGED)

CARPET
RESILIENT FLOORING
WOOD FLOORING
TERRAZZO

OTHER SYMBOLS

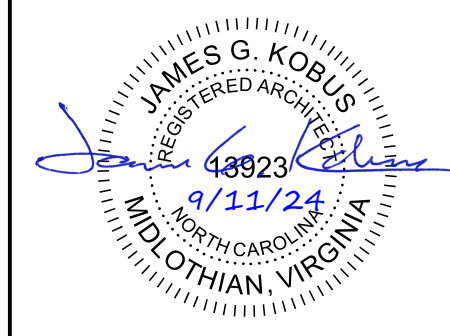
WOOD FRAMING (CONTINUOUS)
WOOD BLOCKING / SHIM
BATT INSULATION
SEALANT & BACKER ROD

GENERAL ARCHITECTURAL NOTES

- THE DRAWINGS HAVE BEEN PREPARED AND COORDINATED WITH PROJECT SPECIFICATIONS. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT FOR CLARIFICATION.
- ALL WORK PERFORMED SHALL COMPLY WITH ALL LOCAL AND GOVERNING CODES.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND STANDARDS AND OF HIGH QUALITY.
- KEEP THE WORKSITE SAFE AND FREE OF EXCESSIVE REFUSE AND DEBRI DURING CONSTRUCTION ACTIVITIES.
- VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT.
- COORDINATE WITH THE OWNER ON APPROPRIATE WORK SCHEDULE AND ACCESS TO THE SITE. THE CONTRACTOR SHALL PERFORM WORK IN A MANNER THAT THE LEAST DISRUPTIVE TO THE OWNER AND OWNER'S OCCUPANTS DURING CONSTRUCTION.
- PROTECT ADJACENT FINISHES OR STRUCTURES NOT INCLUDED IN THIS SCOPE OF WORK FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- PLAN DIMENSIONS ON DRAWINGS ARE TO FINISH FACE OF MATERIAL UNLESS OTHERWISE NOTED.
- VERTICAL HEIGHT DIMENSIONS ARE FROM TOP-OF-SLAB TO TOP-OF-SLAB OR LANDING SUBSTRATE.

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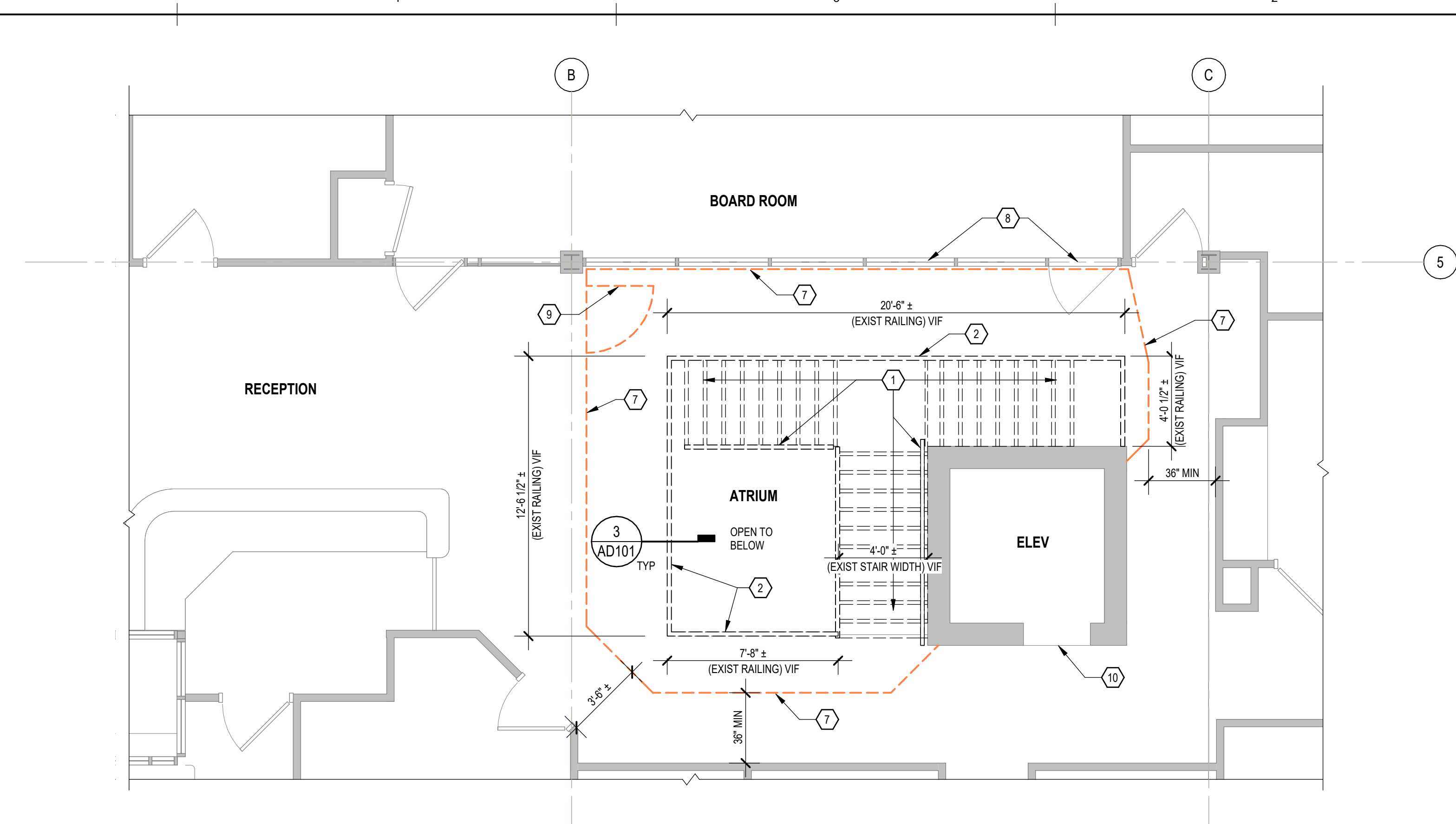
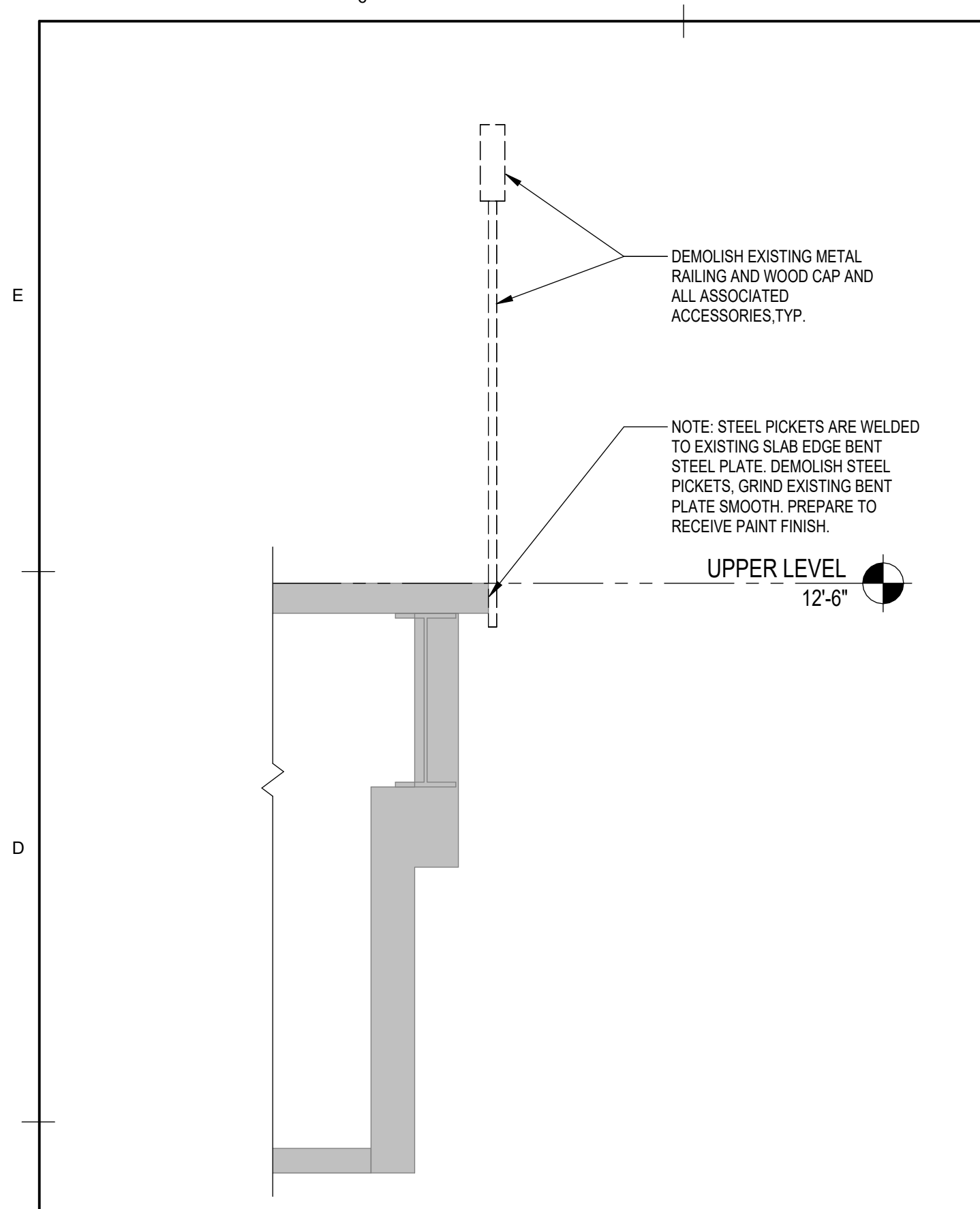
ARCHITECTURAL ABBREVIATIONS

@	AT	DIFF	DIFFERENCE	GYP BD	GYPSUM BOARD	NOM	NOMINAL	SUSP	SUSPENDED
A/C	AIR CONDITION(ING) (ED)	DN	DOWN	HDW	HARDWARE	NTS	NOT TO SCALE	SYM	SYMBOL
ACC	ACCESSIBLE	DR	DOOR	HDWD	HARDWOOD	OC	ON CENTER	SYS	SYSTEM
ADJ	ADJUSTABLE, ADJACENT	DS	DOWNSPOUT	HM	HOLLOW METAL	OD	OUTSIDE DIAMETER	T	TREAD
AFF	ABOVE FINISHED FLOOR	DT	DRAIN TILE	HSS	HOLLOW STRUCTURAL SECTION	OPNG	OPENING	T & B	TOP AND BOTTOM
AHU	AIR HANDLING UNIT	DTL	DETAIL	HT	HEIGHT	OPT	OPTIONAL	TEMP	TEMPORARY, TEMPERATURE
ALT	ALTERNATE	DW	DISH WASHER	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	PERF	PERFORATED	THK	THICKNESS
ALUM	ALUMINUM	E	EAST	HW	HOT WATER	PLAM	PLASTIC LAMINATE	THRU	THROUGH
APC	ACOUSTICAL PANEL CEILING	EA	EACH	ID	INSIDE DIAMETER	PLYWD	PLYWOOD	TMPD	TEMPERED
BD	BOARD	EL	ELEVATION	IN	INCHES	PSF	POUNDS PER SQUARE FOOT	TOC	TOP OF CONCRETE
BITUM	BITUMINOUS	ELEC	ELECTRIC(AL)	INCL	INCLUDE	PSI	POUNDS PER SQUARE INCH	TOF	TOP OF FOOTING, TOP OF FLOOR, TOP OF FRAME
BLDG	BUILDING	ELEV	ELEVATOR	INFO	INFORMATION	PTN	PARTITION	TOM	TOP OF MASONRY
BLKG	BLOCKING	EP	ELECTRIC PANEL	INSUL	INSULATION	QTY	QUANTITY	TOPO	TOPOGRAPHY
BM	BENCHMARK, BEAM	EQ	EQUAL	INT	INTERIOR	R	RISER, RADIUS, HEAT RESISTANCE	TOS	TOP OF STEEL
BOT	BOTTOM	EQUIP	EQUIPMENT	JAN	JANITOR	RB	RUBBER BASE, RESILIENT BASE	TYP	TYPICAL
BRG	BEARING	EQUIV	EQUIVALENT	JT	JOINT	RCP	REFLECTED CEILING PLAN	UH	UNIT HEATER
CAB	CABINET	ETR	EXISTING TO REMAIN	KIT	KITCHEN	RD	ROOF DRAIN	UL	UNDERWRITERS LABORATORIES
CCTV	CLOSED-CIRCUIT TELEVISION	EW	EACH WAY	LAM	LAMINATE(D)	REF	REFRIGERATOR	UNO	UNLESS NOTED OTHERWISE
CEM	CEMENT	EXH	EXHAUST	LAV	LAVATORY	REINF	REINFORCE	UTIL	UTILITY
CIP	CAST-IN-PLACE	EXIST	EXISTING	LB(S), #	POUND(S)	REQD	REQUIRED	VAR	VARIES, VARIATION
CJ	CONTROL JOINT, CONSTRUCTION JOINT	EXP	EXPAND, EXPANSION	LIN	LINEAR	RFI	REQUEST FOR INFORMATION	VCT	VINYL COMPOSITION TILE
CL	CENTER LINE	EXT	EXTERIOR	MACH	MACHINE ROOM	RM	ROOM	VERT	VERTICAL
CLG	CEILING	FA	FIRE ALARM	RM		S	SOUTH	VEST	VESTIBULE
CLO	CLOSET	FE	FIRE EXTINGUISHER	MAINT	MAINTENANCE	SAFB	SOUND ATTENUATION FIRE BATTS	VIF	VERIFY IN FIELD
CLR	CLEAR	FEC	FIRE EXTINGUISHER CABINET	MATL	MATERIAL	SAN	SANITARY	VOL	VOLUME
CMU	CONCRETE MASONRY UNIT	FIN	FINISH	MAX	MAXIMUM	SCHED	SCHEDULE	W/	WITH
COL	COLUMN	FIXT	FIXTURE	ME	MATCH EXISTING	SECT	SECTION	W/O	WITHOUT
CONC	CONCRETE	FLOUR	FLOURESCENT	MECH	MECHANICAL	SF	SQUARE FOOT, SAFETY FACTOR	WD	WOOD
CONT	CONTINUOUS	FLR	FLOOR	MECH RM	MECHANICAL ROOM	SHT	SHEET	WDW	WINDOW
CSWK	CASEWORK	FNDN	FOUNDATION	RM		SIM	SIMILAR	WH	WATER HEATER, WALL HUNG
CT	CERAMIC TILE	FT	FOOT, FEET	MIN	MINIMUM	SPEC	SPECIFICATION(S)	WT	WEIGHT
CU	CUBIC	FURN	FURNITURE	MISC	MISCELLANEOUS	SQ	SQUARE	YD	YARD
D	DEEP, DEPTH	GA	GAUGE	MO	MASONRY OPENING	SS	STAINLESS STEEL		
DBL	DOUBLE	GALV	GALVANIZED	MTL	METAL	STC	SOUND TRANSMISSION CLASS		
DEMO	DEMOLITION	GC	GENERAL CONTRACTOR	N	NORTH	STD	STANDARD		
DF	DRINKING FOUNTAIN	GEN	GENERAL, GENERATOR	N/A	NOT APPLICABLE	STO	STORAGE		
DIA or Ø	DIAMETER	GLZ	GLAZING	NIC	NOT IN CONTRACT	STRUCT	STRUCTURAL		
		GYP	GYPSUM						

REVISION DESCRIPTION

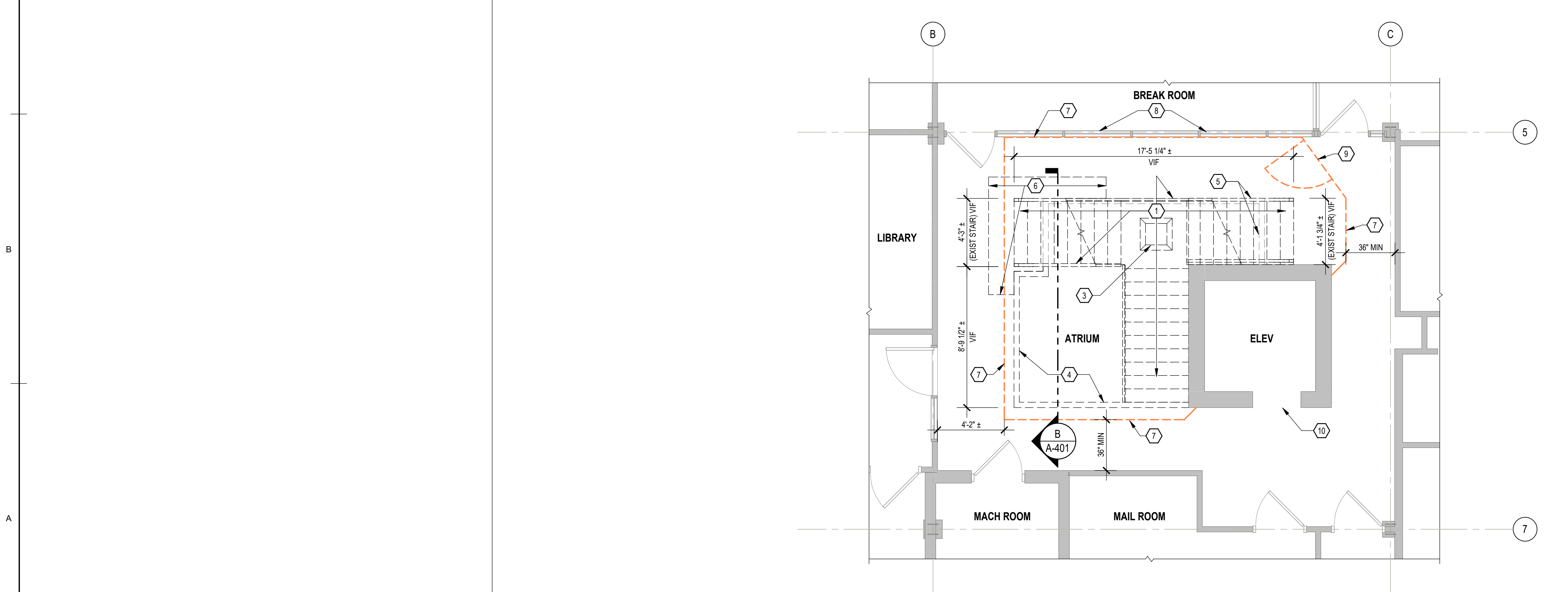
MRK DATE

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GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
SHT. NO. A-001 REV. NO.



3 EXIST ATRIUM RAIL DEMOLITION DETL
 AD101 SCALE: 1" = 1'-0"

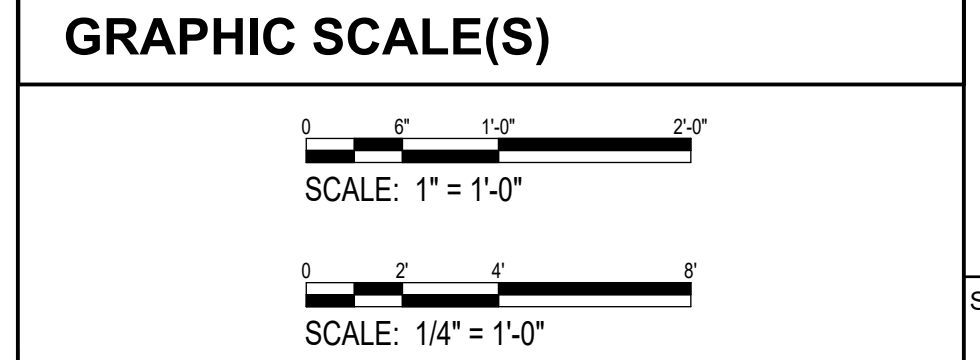
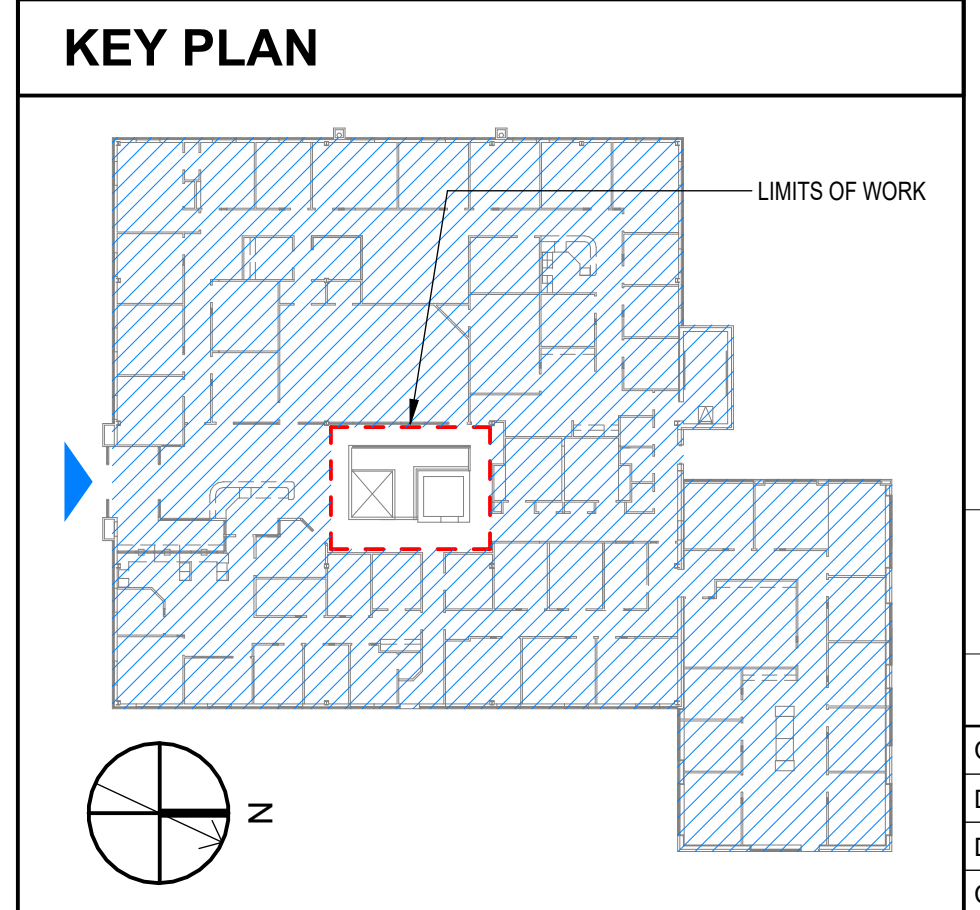
2 UPPER LEVEL - STAIR DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



1 LOWER LEVEL - STAIR DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

- ### GENERAL DEMOLITION NOTES
- VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. DIMENSIONS FOR EXISTING WORK ARE INDICATED AS "±". ALL DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT MANAGER AND ARCHITECT.
 - PROTECT ALL EXISTING FINISHES TO REMAIN FROM ACCIDENTAL DAMAGE TO THE GREATEST EXTENT POSSIBLE. AVOID DAMAGE TO FINISHES DURING DEMOLITION OF ADJACENT ITEMS. REPAIR OR REPLACE ALL FINISHES DAMAGED DUE TO DEMOLITION ACTIVITIES TO "LIKE-NEW" CONDITION.
 - GRINDING AND DUST CAUSING ACTIVITIES SHALL BE COMPLETED BETWEEN 7:00PM TO 7:00AM, OR DURING WEEKEND OR HOLIDAY HOURS. COORDINATE NIGHT, WEEKEND, OR HOLIDAY WORK HOURS AND HVAC SHUTDOWNS FOR DUST MAKING ACTIVITIES WITH OWNER ACCORDING TO GENERAL CONDITIONS.
 - REMOVE DEMOLISHED MATERIALS, DEBRIS, & RUBBISH FROM SITE AS SOON AS PRACTICAL. DO NOT ACCUMULATE DEBRIS ON THE FLOOR OR AT THE SITE.
 - SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
 - KEEP THE WORK SITE CLEAN AND FREE OF EXCESSIVE DUST. USE APPROPRIATE CONSTRUCTION METHODS TO MINIMIZE AIRBORNE PARTICLES.
 - CONSTRUCT TEMPORARY WORK SITE BARRIERS TO CONTAIN CONSTRUCTION DUST. PREVENT UNAUTHORIZED ACCESS, AND TO MINIMIZE CONSTRUCTION NOISE WHILE THE BUILDING IS OCCUPIED.
 - CLEAN THE WORK SITE OF DUST AT THE END OF EACH SHIFT. DO NOT ALLOW DUST TO ACCUMULATE.
 - DUCTWORK FOR HVAC RETURNS ADJACENT TO DUST MAKING WORK SHALL BE SEALED OFF DURING THE PERIOD OF DUST MAKING ACTIVITY AND STAY SEALED UNTIL CONSTRUCTION AND ADJACENT AREAS ARE CLEANED AT THE END OF THE SHIFT.
 - DO NOT BEGIN DEMOLITION WORK UNTIL ALL NEW STAIR MATERIALS ARE ON-SITE AND READY TO INSTALL.
 - SCHEDULE SELECTIVE DEMOLITION ACTIVITIES ACCORDING TO SELECTIVE DEMOLITION SPEC SECTION 024119.
 - COORDINATE WITH OWNER THE START AND END DATES, INTERRUPTION OF SERVICES, USE OF ELEVATOR OR STAIRS, AND CONTINUED OCCUPANCY OF PORTIONS OF THE BUILDING DURING THE CONSTRUCTION PERIOD.
 - BEFORE SELECTIVE DEMOLITION, THE OWNER WILL REMOVE ALL OWNER FURNITURE, FURNISHINGS AND EQUIPMENT FROM THE WORK SITE.
 - MAINTAIN FIRE PROTECTION FACILITIES IN SERVICE DURING SELECTIVE DEMOLITION OPERATIONS AND PROTECT FROM ACTIVATION DUE TO DUST INCURRED BY DEMOLITION ACTIVITIES.
 - SUBMIT EXISTING CONDITIONS SURVEY DOCUMENTATION BEFORE BEGINNING WORK.
 - PERFORM ENGINEERING SURVEY TO DETERMINE IF REMOVAL OF ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF STRUCTURE OR ADJACENT STRUCTURES DURING DEMOLITION OPERATIONS.
 - COVER AND PROTECT FURNITURE, FURNISHINGS, AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
 - DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, VERIFY CONDITIONS AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH DURING AND FOR AT LEAST TWO HOURS AFTER FLAME-CUTTING OPERATIONS AND MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.
 - REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER TO GROUND BY METHOD SUITABLE TO AVOID FREE FALL AND TO PREVENT GROUND IMPACT OR DUST GENERATION.

- ### SHEET KEYNOTES
- DEMOLISH EXISTING STAIR, SUPPORT BEAM, TREADS AND RISERS, AND STAIR RAILING COMPLETELY.
 - DEMOLISH EXISTING ATRIUM LANDING GUARD RAIL COMPLETELY. SEE DETAIL 3/AD101 FOR ADDITIONAL INFORMATION.
 - DEMOLISH EXISTING CONCRETE PIER AND FOOTING & STEEL COLUMN STAIR SUPPORT STRUCTURE.
 - DEMOLISH EXISTING CONCRETE CURB IN ITS ENTIRETY AND PREPARE FOR INSTALLATION OF CONCRETE GARDEN CURBING.
 - DEMOLISH EXISTING CONCRETE CURB UNDER STAIR. PREPARE FOR INSTALLATION OF CONCRETE GARDEN CURBING.
 - DEMOLISH EXISTING CONCRETE SLABS TO ALLOW FOR NEW FOOTING INSTALLATION. SEE ALSO STRUCTURAL DRAWINGS.
 - PROPOSED TEMPORARY CONSTRUCTION BARRIER WITH DUST AND SOUND CONTROL. GC TO SUBMIT FINAL CONTROL BARRIER PLAN FOR APPROVAL.
 - PROTECT EXISTING STOREFRONT ASSEMBLY AND DOOR DURING DEMOLITION AND CONSTRUCTION.
 - TEMPORARY CONSTRUCTION BARRIER ACCESS.
 - MAINTAIN ELEVATOR OPERATION AND ACCESS THROUGH DEMOLITION AND CONSTRUCTION.



ORANGE WATER AND SEWER AUTHORITY (OWASA) ADMINISTRATION BUILDING

MONUMENTAL STAIR RENOVATION

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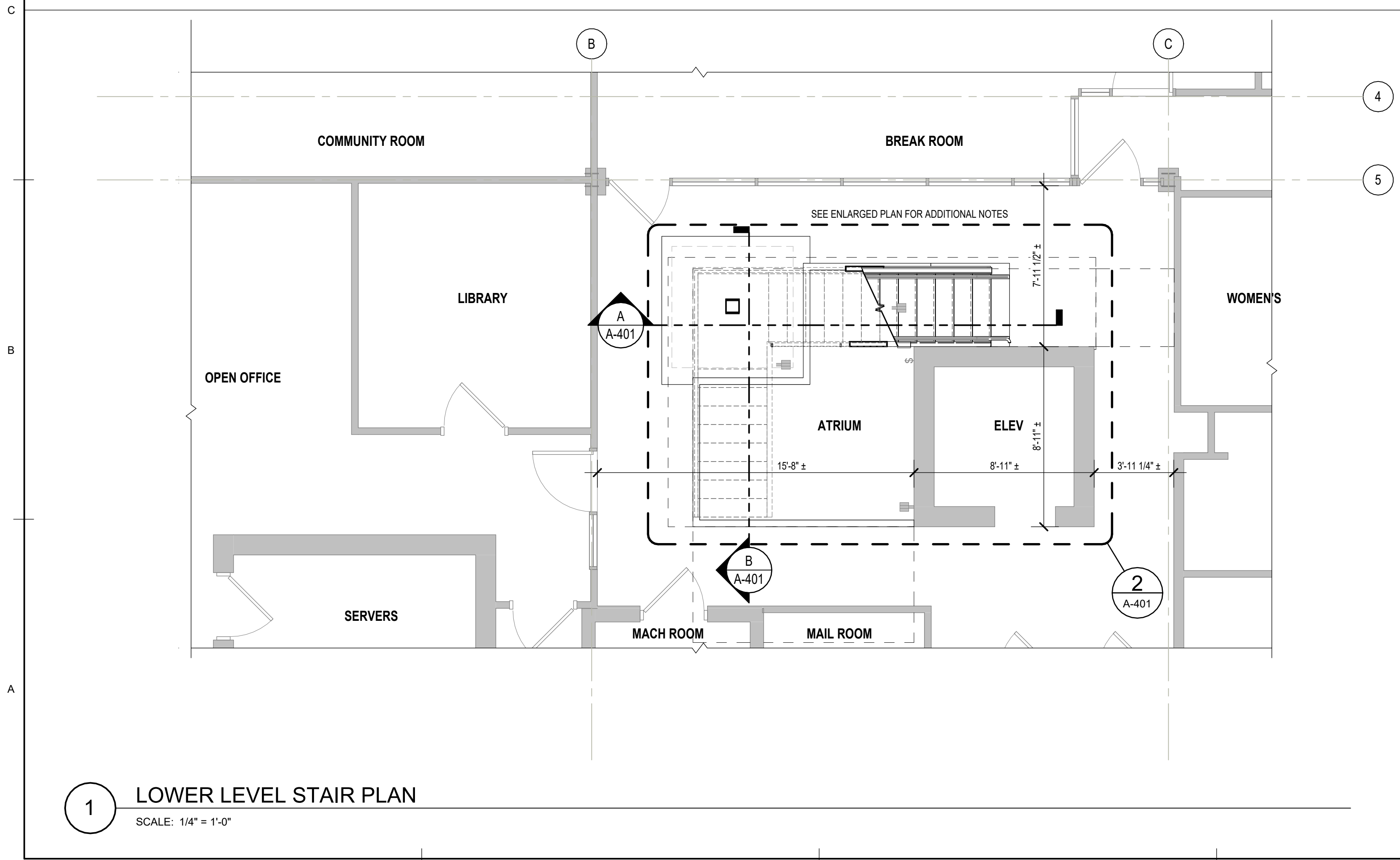
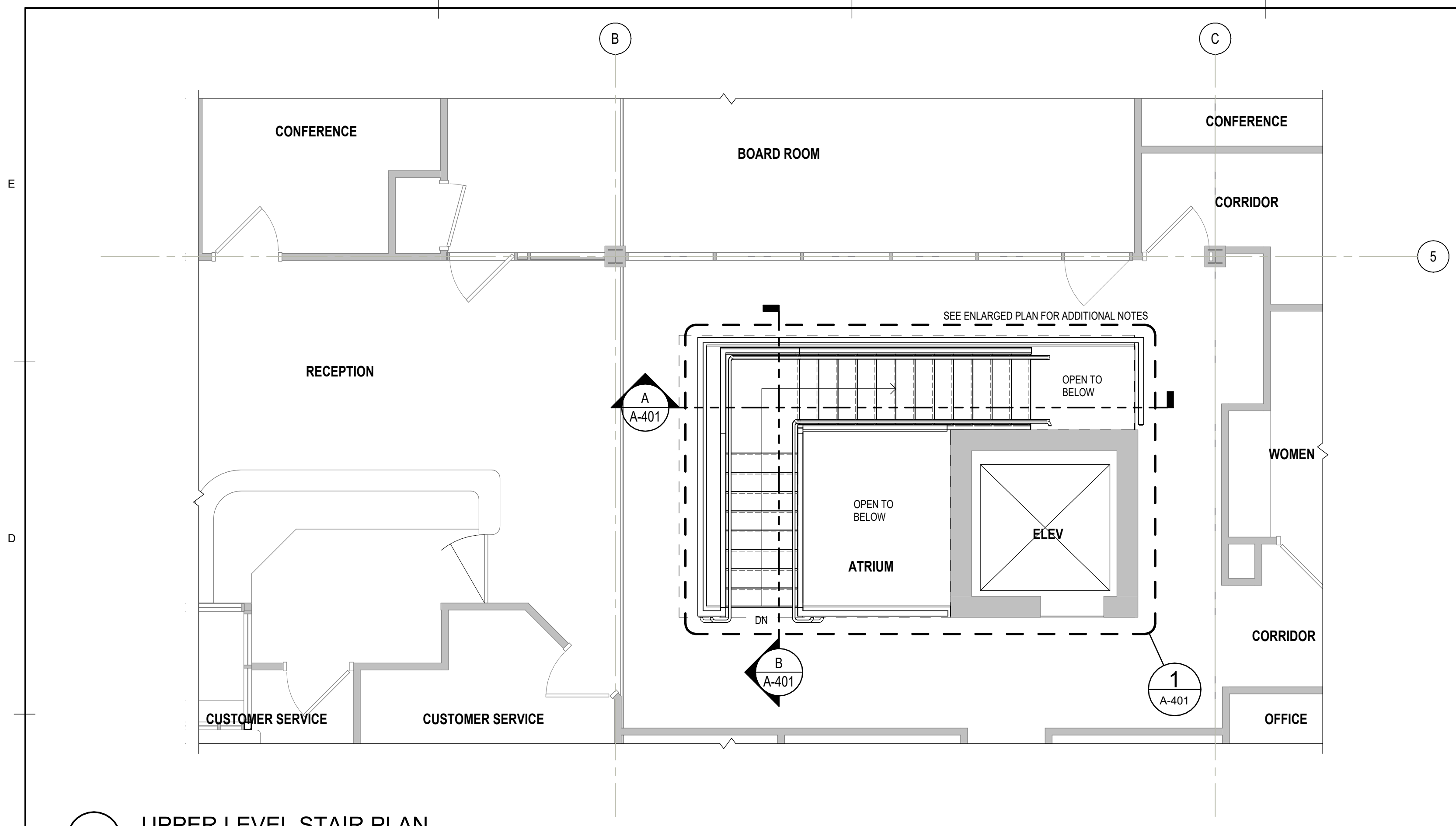
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REVISION DESCRIPTION	DATE	MRK

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DATE:	9/11/2024
DRAWN:	JGK DESIGN: JGK
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SHEET TITLE	
STAIR DEMOLITION PLANS	
SHT. NO.	AD101
REV. NO.	

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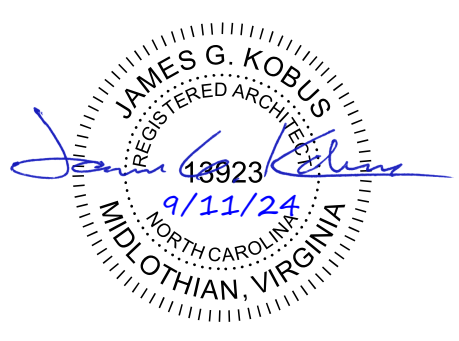


GENERAL SHEET NOTES

- A EXISTING CONDITIONS ARE DERIVED FROM EXISTING BUILDING PLANS AND SITE VISITS AND ARE INTENDED TO REASONABLY REPRESENT EXISTING CONDITIONS. ACTUAL CONDITIONS MAY DEVIATE FROM THOSE SHOWN ON THE DRAWINGS. VERIFY ALL CRITICAL DIMENSIONS IN THE FIELD
- B REFER TO SHEET A-401 ENLARGED PLANS FOR ADDITIONAL INFORMATION
- C REFERENCE OTHER DISCIPLINES FOR ADDITIONAL INFORMATION. ANY CONFLICT MUST BE REPORTED UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.



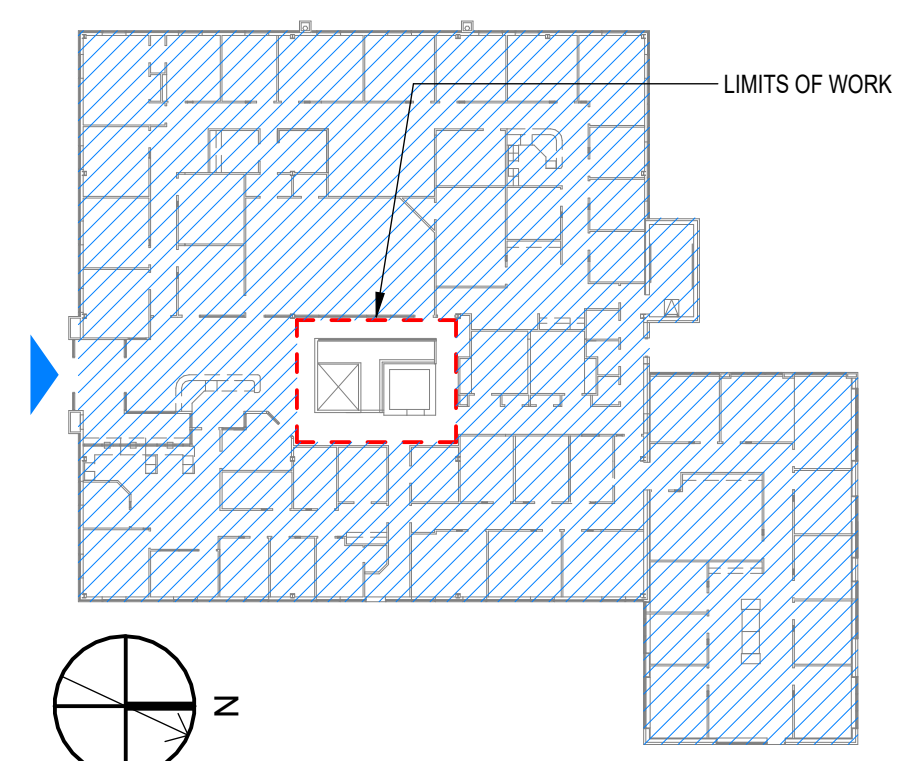
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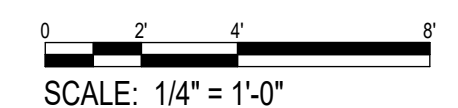
ORANGE WATER AND SEWER AUTHORITY (OWASA) ADMINISTRATION BUILDING MONUMENTAL STAIR RENOVATION

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KEY PLAN



GRAPHIC SCALE(S)



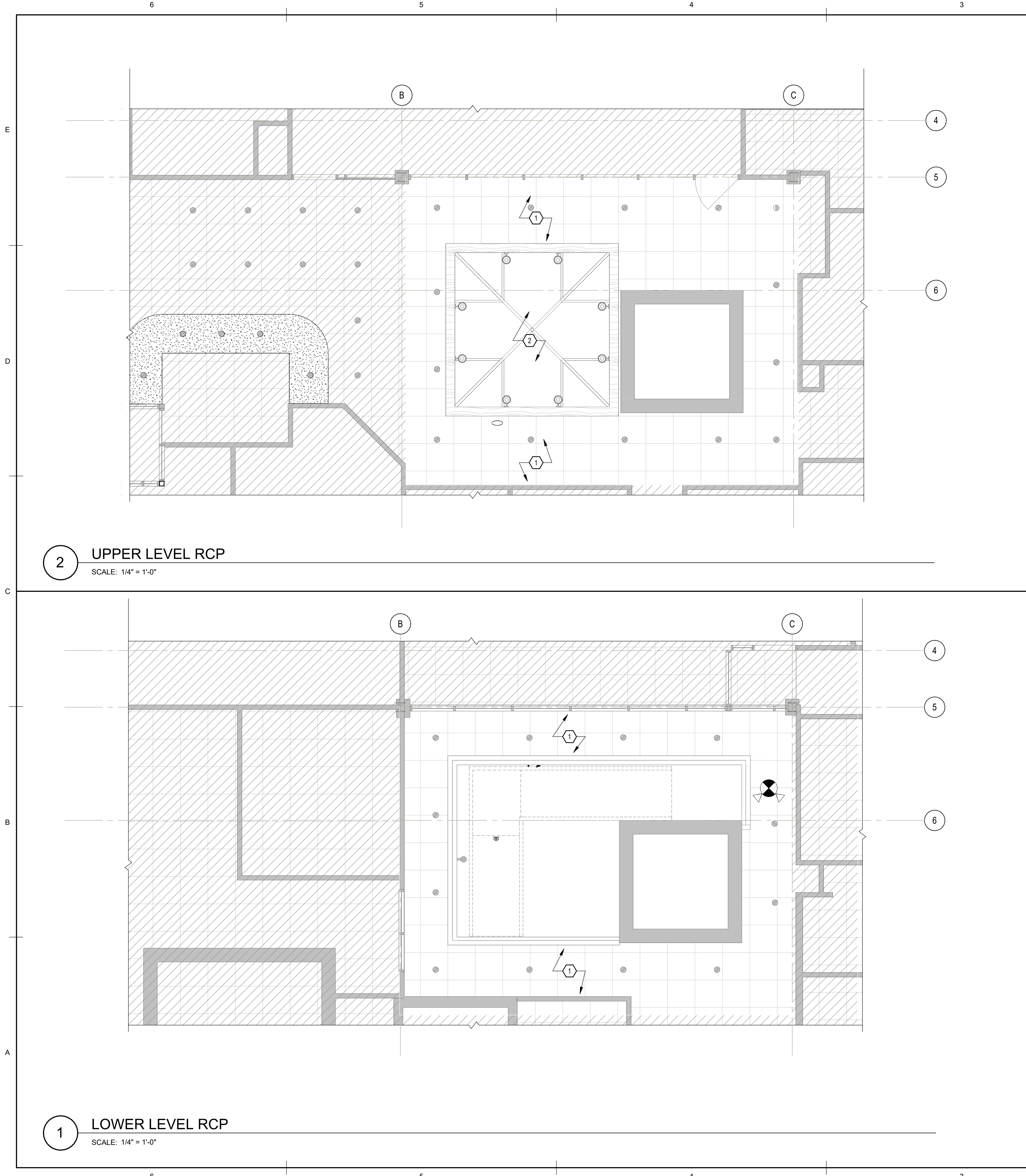
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SHEET TITLE
FLOOR PLANS
SHT. NO. **A-101** REV. NO.

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2 UPPER LEVEL RCP
SCALE: 1/4" = 1'-0"

1 LOWER LEVEL RCP
SCALE: 1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
	EXISTING ACOUSTICAL PANEL CEILING
	EXISTING GYPSUM BOARD CEILING.
	EXISTING LIGHT FIXTURE (RECESSED DOWN LIGHT)
	EXISTING EXIT SIGN. REFER TO ELECTRICAL DRAWINGS.
	NEW EMERGENCY LIGHT. REFER TO ELECTRICAL DRAWINGS.
	AREA NOT IN CONTRACT

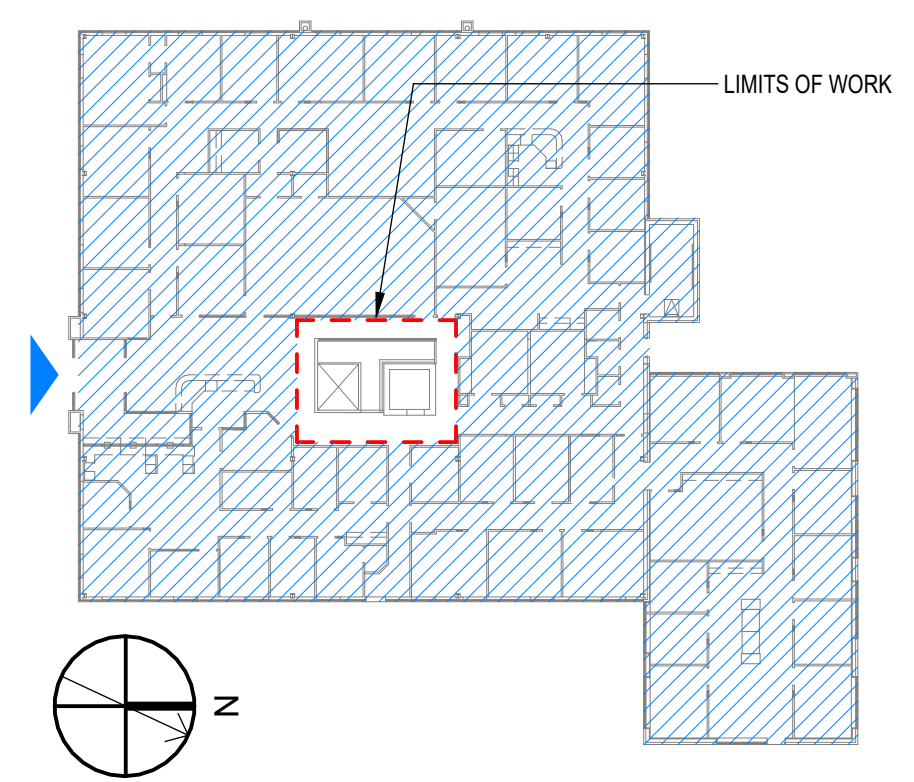
GENERAL CEILING PLAN NOTES

- A EXISTING CONDITIONS ARE DERIVED FROM EXISTING BUILDING PLANS AND SITE VISITS AND ARE INTENDED TO REASONABLY REPRESENT EXISTING CONDITIONS. ACTUAL CONDITIONS MAY DEVIATE FROM THOSE SHOWN ON THE DRAWINGS. VERIFY ALL CRITICAL DIMENSIONS IN THE FIELD.
- B PATCH AND REPAIR EXISTING TO REMAIN CEILINGS THAT MAY HAVE BEEN DAMAGED DUE TO DEMOLITION ACTIVITIES.
- C PROVIDE BLOCKING AS NEEDED FOR ALL CEILING OR WALL MOUNTED FIXTURES
- D INSPECT NEW LIGHT FIXTURES PRIOR TO INSTALLATION. VERIFY LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT AND SMUDGES. PLASTIC AND LABELS MUST BE REMOVED FROM ALL NEWLY INSTALLED LIGHT FIXTURES AT PROJECT COMPLETION.

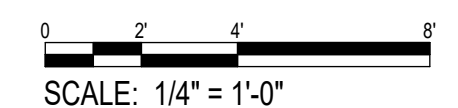
SHEET KEYNOTES

- 1 EXISTING ATRIUM APC CEILING TO REMAIN, UNLESS NOTED OTHERWISE. COORDINATE LIGHTING WITH ELECTRICAL DRAWINGS. PATCH AND REPAIR AS REQUIRED AND WHERE DAMAGED
- 2 EXISTING ATRIUM SKYLIGHT TO REMAIN.

KEY PLAN



GRAPHIC SCALE(S)

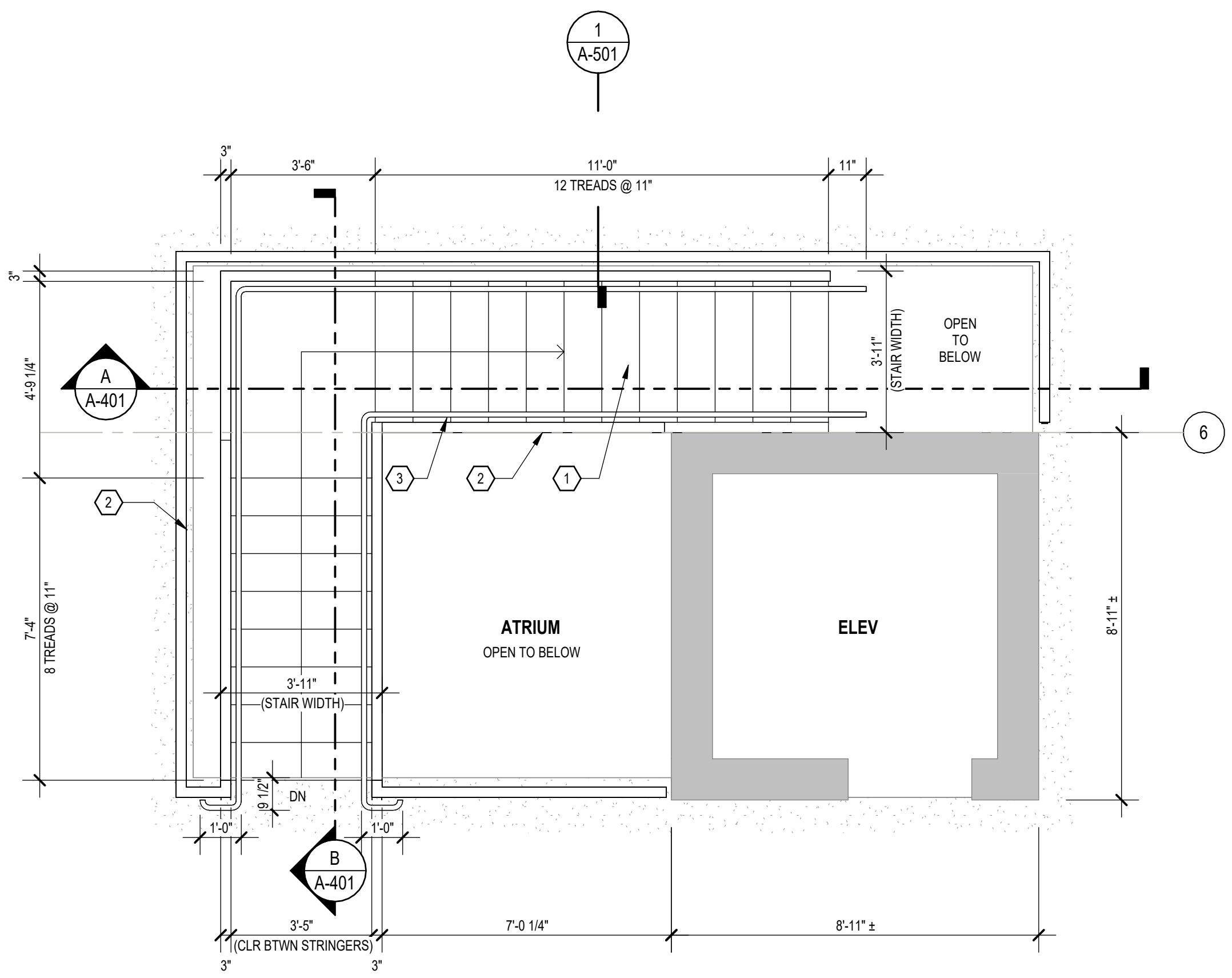


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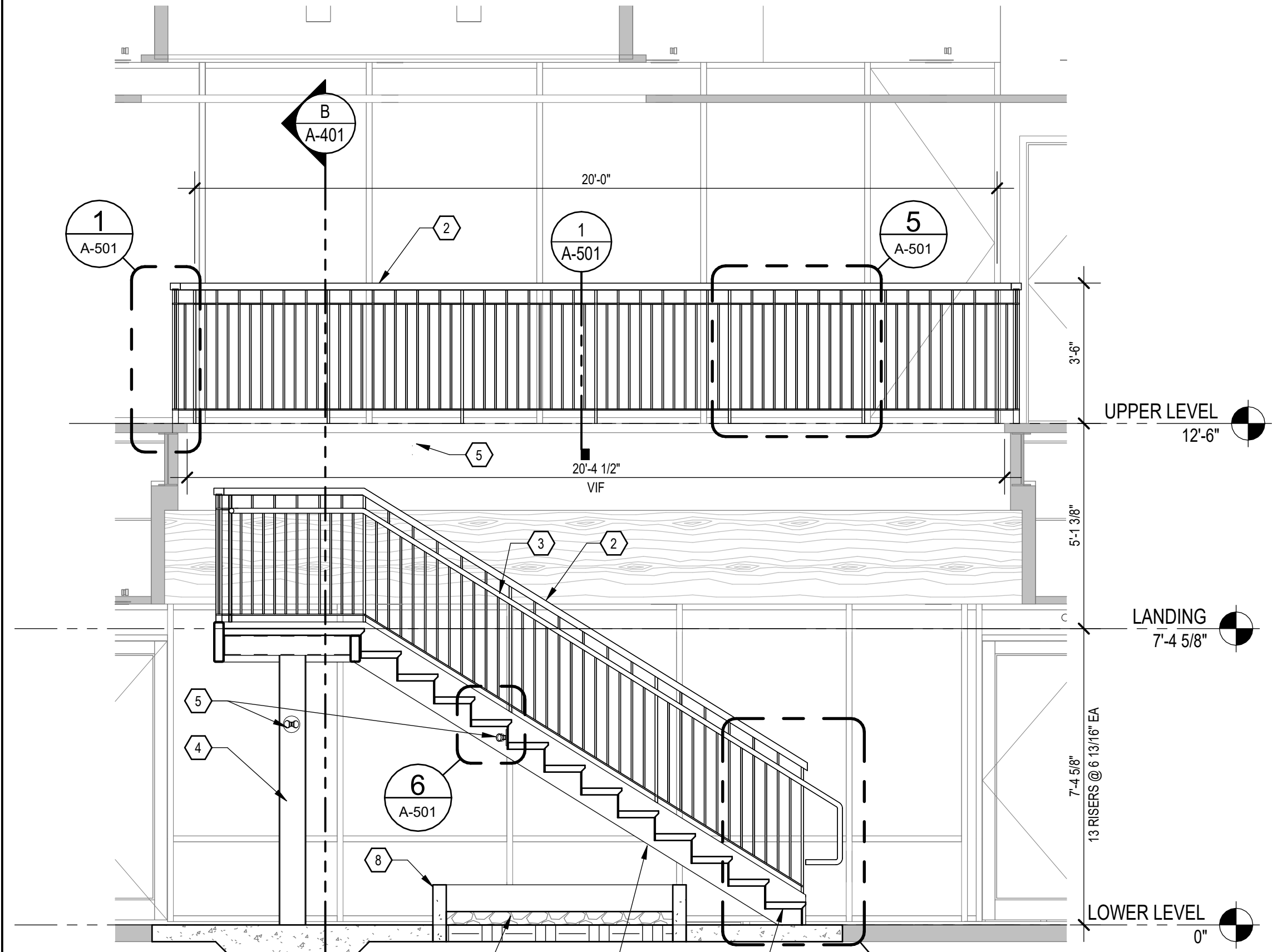
**ORANGE WATER AND SEWER
AUTHORITY (OWASA)
ADMINISTRATION BUILDING
MONUMENTAL STAIR RENOVATION**

MRK	DATE	REVISION DESCRIPTION

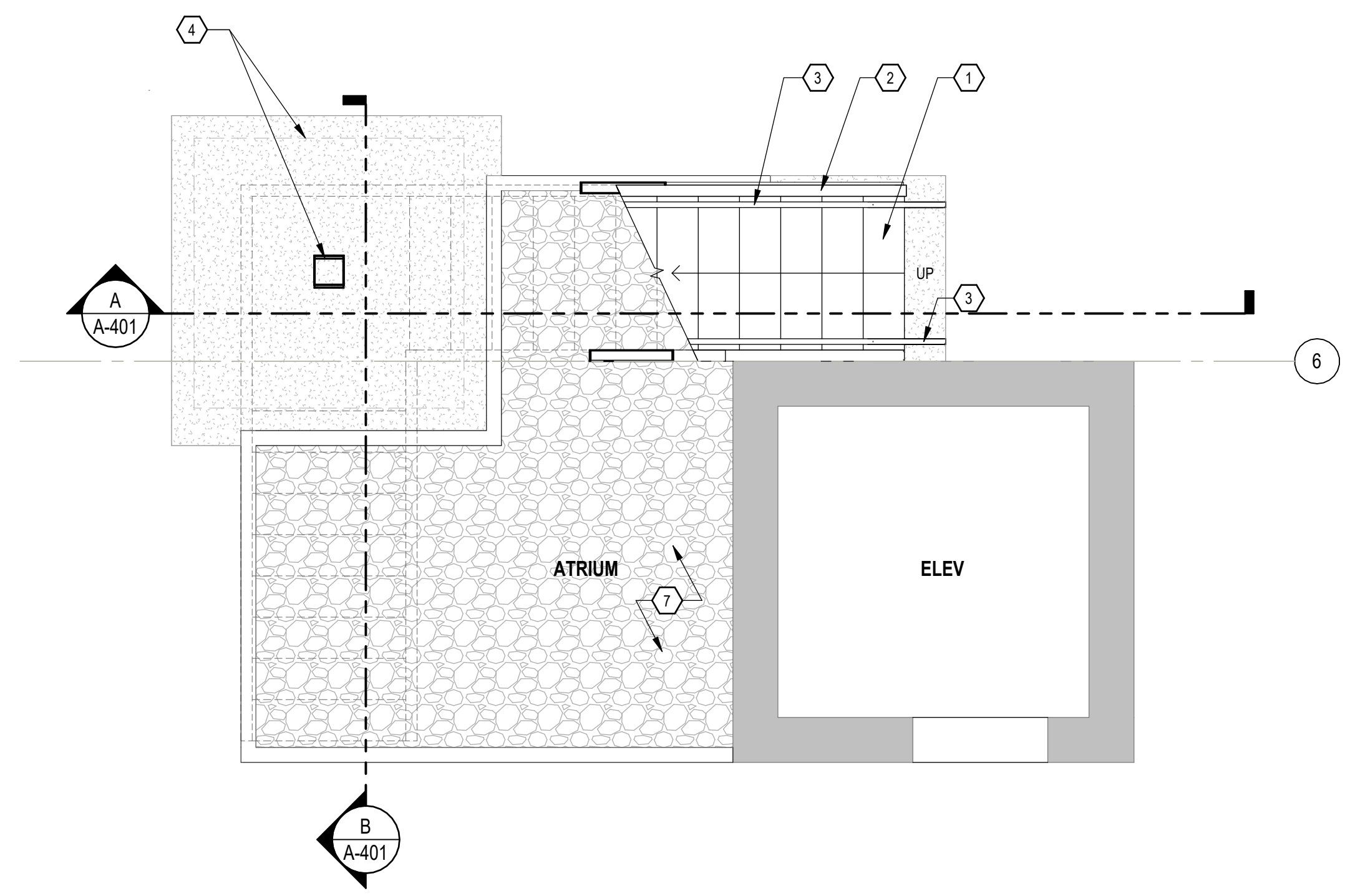
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REFLECTED CEILING PLANS	
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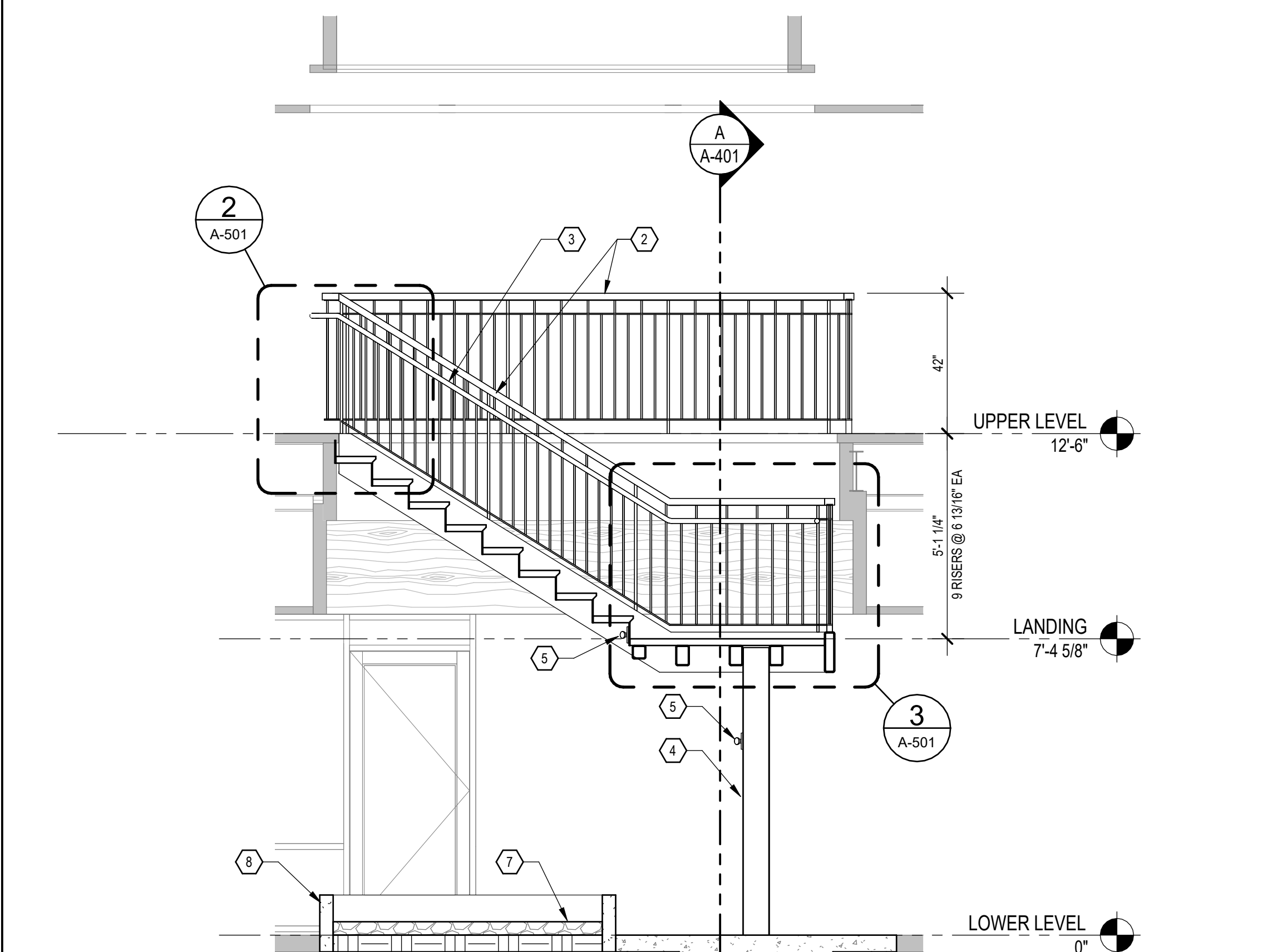
1 ENLARGED UPPER LEVEL STAIR PLAN
 SCALE: 3/8" = 1'-0"



A STAIR SECTION A
 SCALE: 3/8" = 1'-0"



2 ENLARGED LOWER LEVEL STAIR PLAN
 SCALE: 3/8" = 1'-0"

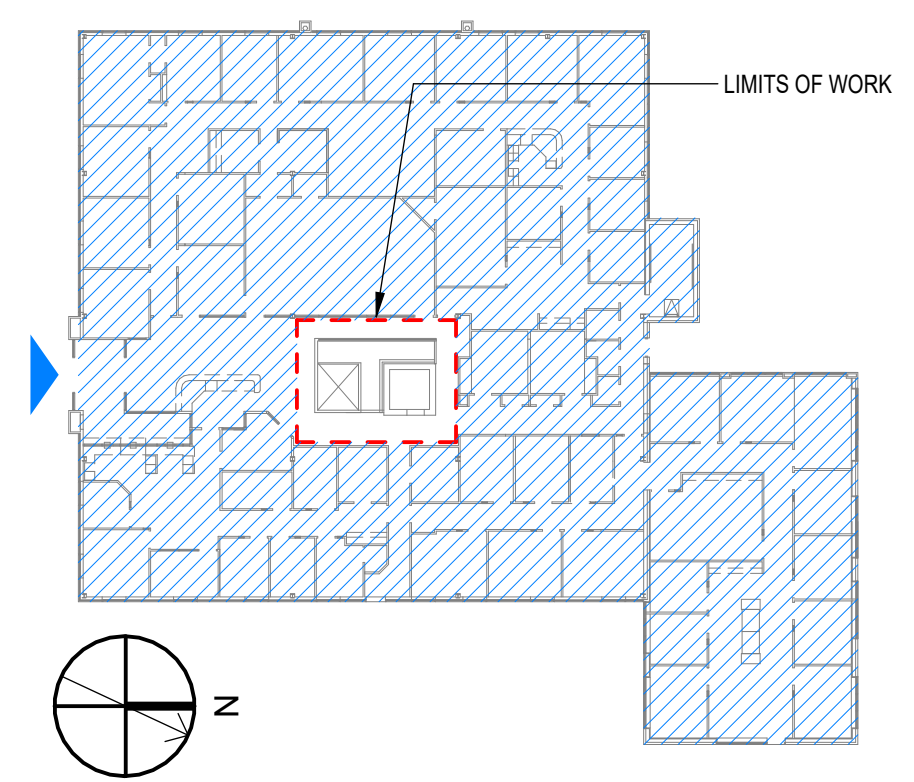


B STAIR SECTION B
 SCALE: 3/8" = 1'-0"

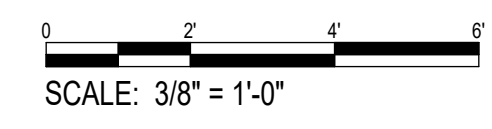
SHEET KEYNOTES

- 1 FABRICATED STEEL PAN STAIR WITH CONCRETE GROUT FILLED TREADS WITH SAFETY NOSE GRIPS. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- 2 GUARDRAIL, 42" HIGH MIN. SEE DETAILS ON SHEET A-501.
- 3 HANDRAIL, 36" HIGH MIN. SEE DETAILS ON SHEET A-501.
- 4 STRUCTURAL STEEL SUPPORT COLUMN AND FOOTING. REFER TO STRUCTURAL DRAWINGS.
- 5 EMERGENCY LIGHT. MOUNT AS REQUIRED. SEE ELECTRICAL DRAWINGS.
- 6 STAIR STRINGER, STEEL. SEE STRUCTURAL DRAWINGS.
- 7 ROCK/PLANTER BED
- 8 CONCRETE CURB. SEE STRUCTURAL DRAWINGS.

KEY PLAN



GRAPHIC SCALE(S)



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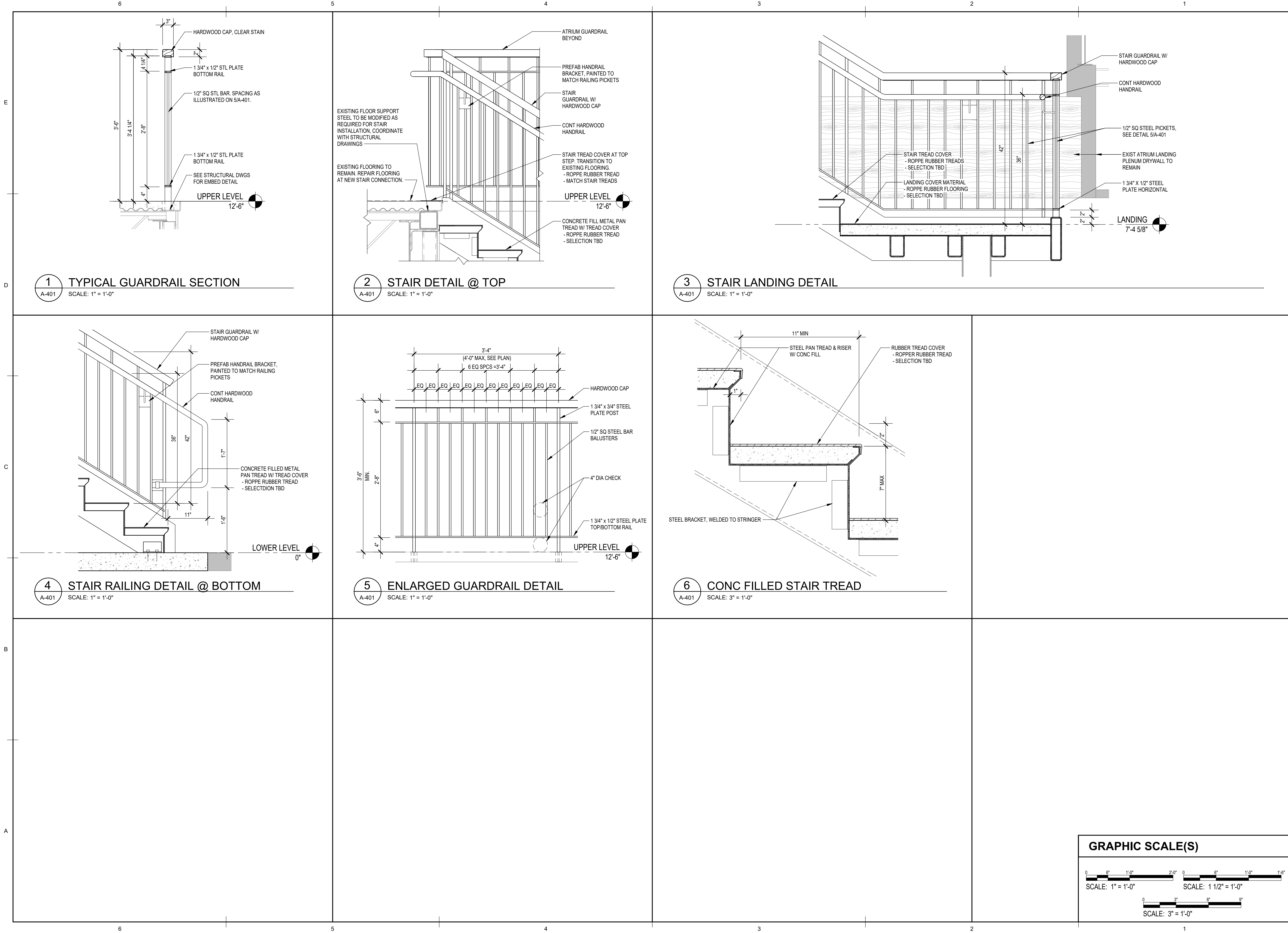
ORANGE WATER AND SEWER
 AUTHORITY (OWASA)
 ADMINISTRATION BUILDING
 MONUMENTAL STAIR RENOVATION

MRK	DATE	REVISION DESCRIPTION

COMM NO:	230230
DATE:	9/11/2024
DRAWN:	JGK
DESIGN:	JGK
CHECK:	BWS
SHEET TITLE:	ENLARGED STAIR PLANS AND SECTIONS
SHT. NO.:	A-401
REV. NO.:	

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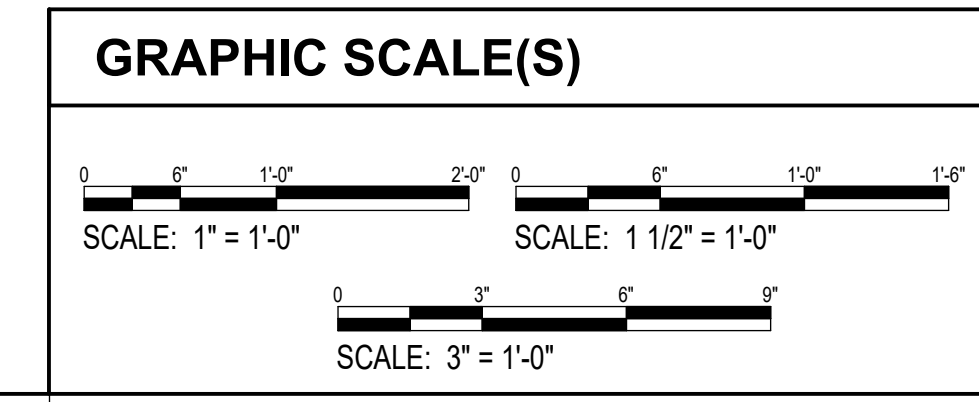
JAMES G. KOBUS
REGISTERED ARCHITECT
NO. 43923
9/11/24
NORTH CAROLINA
MIDLOTHIAN, VIRGINIA

ORANGE WATER AND SEWER
AUTHORITY (OWASA)
ADMINISTRATION BUILDING
MONUMENTAL STAIR RENOVATION

400 JONES FERRY ROAD CARRBORO, NC 27510

MRK	DATE	REVISION DESCRIPTION

COMM NO:	230230
DATE:	9/11/2024
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SHEET TITLE:	MISCELLANEOUS DETAILS
SHT. NO.	A-501
REV. NO.	



A. GENERAL

- 1. THE DESIGN OF THE PLATFORM STRUCTURE COMPLIES WITH THE 2018 NORTH CAROLINA BUILDING CODE.
2. GRAVITY DESIGN LOADS ARE AS FOLLOWS:
i. SUPERIMPOSED DEAD LOADS: GRATING 5 PSF
ii. LIVE LOADS: STAIRS AND EXITS 100 PSF
HANDRAILS & GUARDRAILS 100 PSF
HANDRAILS/TOP RAIL
PANEL FILLERS
3. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS MUST DETERMINE THE SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE...
4. THE REPRODUCTION OF THE STRUCTURAL CONTRACT DOCUMENTS IN ANY FASHION AS STRUCTURAL SHOP DRAWING DOCUMENTS IS PROHIBITED.
5. SCALES NOTED IN THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. NO DIMENSIONAL INFORMATION MUST BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
6. DETAILS, SECTIONS AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND MUST APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS OTHERWISE SHOWN OR NOTED.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL RESULTING REVISIONS TO THE STRUCTURAL SYSTEM AS A RESULT OF ACCEPTANCE OF CONTRACTOR PROPOSED ALTERNATIVES OR SUBSTITUTIONS.
8. THE GENERAL CONTRACTOR (OR CONSTRUCTION MANAGER) MUST SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS FOR APPROVAL...
9. INFORMATION SHOWN REGARDING EXISTING CONDITIONS HAS BEEN OBTAINED BY LIMITED OBSERVATIONS. AREAS NOT VISIBLE HAVE BEEN ASSUMED TYPICAL WITH OBSERVED EXISTING CONDITIONS.
10. THE CONTRACTOR MUST MEASURE AND PROVIDE ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE PRIOR TO CONSTRUCTION AND THE SUBMISSION OF SHOP DRAWINGS AND MUST NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FITTING NEW WORK WITH EXISTING CONSTRUCTION. INFORMATION ON THE EXISTING BUILDING SHOWN IN THESE DRAWINGS WAS BASED UPON THE INFORMATION SUPPLIED TO WILEY WILSON, INC. THIS INFORMATION IS NOT AS-BUILT DATA AND THE ACTUAL AS-BUILT CONSTRUCTION MAY DIFFER FROM THAT REPRESENTED IN THE DRAWINGS...
12. INFORMATION ON THE EXISTING BUILDING IS TAKEN FROM STRUCTURAL SHEETS S-1 THROUGH S3 BY LASAER HOPKINS ENGINEERS DATED DECEMBER 1988.
13. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
14. THE CONTRACTOR MUST FABRICATE AND ERECT STEEL IN ACCORDANCE WITH OSHA'S SAFETY REQUIREMENTS, 29 CFR 1926 SAFETY STANDARDS FOR STEEL ERECTION; FINAL RULE.

B. STRUCTURAL STEEL

- 1. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL MUST CONFORM TO THE FOLLOWING:
ANCHOR BOLTS ASTM F1554, GRADE 36
ANGLES ASTM A36
PLATES ASTM A36
HSS RECTANGULAR ASTM A500, GRADE C (Fy = 50 KSI)
SUBMIT MILL TEST REPORTS FOR REVIEW.
2. BOLTS FOR STRUCTURAL STEEL CONNECTIONS MUST BE HIGH STRENGTH BOLTS PER THE REQUIREMENTS OF ASTM A325, TYPE N, UNLESS NOTED OTHERWISE, PROVIDE BOLTS DESIGNED AS BEARING TYPE BOLTS AND INSTALL PER THE "SNUG TIGHT" CONDITION. INSTALL A HARDENED WASHER UNDER THE ELEMENT TO BE TIGHTENED.
3. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL PER THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND THE SAFETY REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND THE LOCAL JURISDICTION. PROVIDE TEMPORARY SEATS TO FACILITATE SAFE ERECTION.
4. PERFORM WELDING IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD D1.1. PROVIDE ELECTRODES FOR SHOP AND FIELD WELDS IN ACCORDANCE WITH AWS A5.1 OR AWS A5.5, CLASS E70XX, LOW HYDROGEN. ALL WELDS MUST USE FILLER METAL WITH A MINIMUM CVN VALUE OF 20 FT-LBS AT -20 DEGREES FAHRENHEIT.
5. ALL SHOP AND FIELD WELDING MUST BE EXECUTED BY WELDERS AND WELDING OPERATORS WHO ARE CURRENTLY QUALIFIED BY TEST AS PRESCRIBED IN AWS D1.1 OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPES OF WELDS REQUIRED ON THE PROJECT.
6. SHOP OR FIELD WELDS AT NON-BOLTED CONNECTIONS THAT ARE NOT SPECIFICALLY DETAILED MUST BE 3/16" CONTINUOUS FILLETS AT EACH CONTACT EDGE OR SURFACE.
7. RETURN ALL WELDS AT CORNERS TWICE THE NOMINAL SIZE OF THE WELD MINIMUM, UNLESS OTHERWISE NOTED.
8. ALL COPES, BLOCKS, CUT-OUTS, AND OTHER CUTTING OF STRUCTURAL MEMBERS MUST HAVE ALL RE-ENTRANT CORNERS SHAPED, NOTCHED FREE TO A RADIUS OF AT LEAST 1/2".
9. SEE ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS FOR MISCELLANEOUS STEEL NOT SHOWN ON THE STRUCTURAL DRAWINGS.
10. NO FABRICATION SHALL PROCEED PRIOR TO SHOP DRAWING APPROVAL.
11. NO OPENINGS IN BEAMS OR COLUMNS ARE PERMITTED UNLESS SPECIFIED IN THE STRUCTURAL DOCUMENTS. CONTRACTOR MUST SUBMIT ALL PROPOSED OPENING IN BEAMS FOR REVIEW BY THE STRUCTURAL ENGINEER.
12. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
13. THE CONTRACTOR MUST NOTIFY WILEY WILSON, INC. OF ANY MISFABRICATION OF STRUCTURAL STEEL PRIOR TO ERECTION OF SAME.
14. ONE 1.5 MIL COAT OF SHOP PAINT MUST BE APPLIED TO ALL NEW STRUCTURAL STEEL WITH THE EXCEPTION OF AREAS TO BE WELDED.

C. CONCRETE

- 1. ALL CONCRETE WORK MUST BE IN ACCORDANCE WITH ACI 301, ACI 318 AND ACI 302.
2. PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4000 PSI AT 28 DAYS. USE NORMAL WEIGHT AGGREGATES CONFORMING TO ASTM C33 AND TYPE III PORTLAND CEMENT CONFORMING TO ASTM C150. CONCRETE MUST MEET THE FOLLOWING DURABILITY EXPOSURE CATEGORIES: F0, S0, W0, CO.
3. FLY ASH CONFORMING TO ASTM C618, TYPE C OR F MAY BE USED AS TO REPLACE A PORTION OF THE PORTLAND CEMENT IN A CONCRETE MIX. THE AMOUNT OF PORTLAND CEMENT CONTENT MUST NOT BE LESS THAN 70 PERCENT OF THE TOTAL AMOUNT OF CEMENTITIOUS MATERIAL IN THE MIX.
4. CONCRETE REINFORCEMENT BARS MUST CONFORM TO ASTM A615, GRADE 60. REINFORCEMENT BARS MUST NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.
5. GROUT UNDER ALL COLUMN BASE PLATES AND BEAM BEARING PLATES WITH NON-SHRINK, NON-METALLIC GROUT WHICH CONFORMS TO CORPS OF ENGINEERS SPECIFICATION CRD-C 621-82 OR ASTM C1107.
6. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES MUST CONFORM TO THE RECOMMENDATIONS OF ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI SP-66 "DETAILING MANUAL". PLACING OF REINFORCING BARS MUST CONFORM TO THE RECOMMENDATIONS OF ACI 315R "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" AND CRSI "MANUAL OF STANDARD PRACTICE".
7. MIX, TRANSPORT, AND PLACE CONCRETE PER THE RECOMMENDATIONS OF ACI 301.
8. PROVIDE CONCRETE COVER PROTECTION OF REINFORCEMENT PER ACI 318 SECTION 20.6.1.3 WITH STANDARD BAR CHAIRS AND SPACERS REQUIRED TO MAINTAIN MINIMUM CONCRETE PROTECTION. TYPICAL COMMON MINIMUM CONCRETE COVER APPLYING TO THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES
ADDITIONALLY, COVERS MUST NOT EXCEED THE FOLLOWING:
SLABS ON GRADE 2 INCHES (TOP)
SLABS ON METAL FORMS 3/4 INCHES
9. WELDING OF REINFORCEMENT BARS IS NOT PERMITTED.
10. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT MUST BE CONTINUOUS AND MUST HAVE 90-DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED 48 BAR DIAMETERS, AT CORNERS AND INTERSECTIONS.
11. TIE DOWELS IN PLACE BEFORE PLACING CONCRETE. DO NOT STAB OR "WET-SET" DOWELS.
12. HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENTS. VERTICAL JOINTS MUST OCCUR AT CENTER OF SPANS AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
13. PROVIDE HORIZONTAL CONSTRUCTION JOINTS ONLY WHERE SHOWN IN THE CONTRACT DOCUMENTS. AT HORIZONTAL JOINTS, ROUGHEN THE LOWER CONTACT SURFACE WITH ABOUT A 1/4" INCH AMPLITUDE. REMOVE ANY LAITANCE FROM THE HARDENED CONTACT SURFACE AND MAINTAIN A CLEAN CONTACT SURFACE FOR THE ADJOINING POUR.
14. PROTECT AND CURE ALL CONCRETE SURFACES. BEGIN CURING WALLS IMMEDIATELY AFTER STRIPPING FORMS AND FLATWORK IMMEDIATELY AFTER FINISHING.
15. INSTALL AND SECURE EMBEDMENTS SUCH AS ANCHOR BOLTS AND EMBEDMENT PLATES WITHIN SPECIFIED TOLERANCES BEFORE CONCRETE PLACEMENT.
16. DO NOT PLACE CONDUIT OR PIPES IN ANY CONCRETE ELEMENTS INCLUDING SLABS, BEAMS, WALLS OR COLUMNS UNLESS INDICATED IN THE STRUCTURAL DOCUMENTS.
17. CURING OF FORMED SURFACES MUST BE ACHIEVED BY MOISTURE RETAINING MATERIALS OR PLASTIC FILM IF THE FORMS ARE REMOVED BEFORE THE END OF THE CURING PERIOD.
18. BEGIN CURING CONCRETE SLABS IMMEDIATELY AFTER FINISHING. CONCRETE CURING MUST BE ACHIEVED BY MOISTURE RETAINING MATERIALS OR PLASTIC FILM ACI 308R. CURE FOR NOT LESS THAN 10 DAYS.

D. POST-INSTALLED ANCHORS

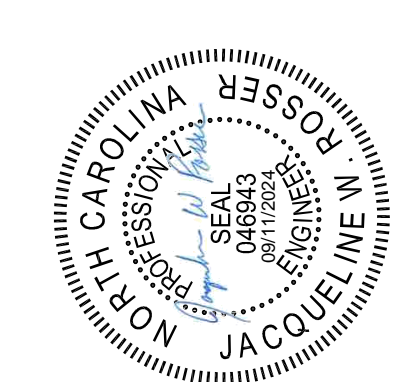
- 1. POST-INSTALLED ANCHORS MUST ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
3. ANCHORAGE TO CONCRETE:
a. MECHANICAL ANCHORS MUST HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC109 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.
b. ADHESIVE ANCHORS MUST HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACE 308.4 AND ICC-ES AC 308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.
4. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
5. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST REVIEW THE EXISTING STRUCTURAL DRAWINGS AND MUST UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS.
7. THE CONTRACTOR MUST TAKE MEASURES TO COORDINATE THE CONSTRUCTION SUCH THAT INTERFERENCE OF EXISTING REINFORCING STEEL WITH PLACEMENT OF NEW ANCHORS (DOWELS, EXPANSION BOLTS, ADHESIVE ANCHORS) DOES NOT OCCUR. IF EXISTING REINFORCING STEEL IS ENCOUNTERED DURING DRILLING, ADJUST THE ANCHOR LOCATION IF POSSIBLE AND NOTIFY THE STRUCTURAL ENGINEER. ABANDONED HOLES MUST BE FILLED WITH GROUT. ANCHORS MUST BE SET WITHIN 3 INCHES OF THEIR SPECIFIED LOCATION, BUT AT LEAST 1 INCH FROM ANY ABANDONED HOLE. CARE MUST BE TAKEN NOT TO BREAK OR DAMAGE REINFORCING STEEL DURING DRILLING, UNLESS OTHERWISE DIRECTED BY THE STRUCTURAL ENGINEER.

E. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS)

- 1. THE STAIRS MUST CONFORM TO THE REQUIREMENTS OF AESS CATEGORY 2 AS SPECIFIED BY ANSIAISC 303, SECTION 10.
2. REQUIREMENTS FOR CATEGORY AESS 2:
A. COMPLY WITH OVERALL PROFILE DIMENSIONS OF AWS D1.1/D1.1M FOR WELDED BUILT-UP MEMBERS. KEEP APPEARANCE AND QUALITY OF WELDS CONSISTENT. MAINTAIN TRUE ALIGNMENT OF MEMBERS WITHOUT WARP EXCEEDING SPECIFIED TOLERANCES.
B. PREPARE SURFACES ACCORDING TO PART 2 "SHOP PRIMING" ARTICLE AND SSPC-SP 6 (WAB) INACE WAB-3.c.
C. GRIND SHEARED, PUNCHED, AND FLAME-CUT EDGES TO REMOVE BURRS AND PROVIDE SMOOTH SURFACES AND EASED EDGES.
D. REMOVE BLEMISHES AND SURFACE IRREGULARITIES RESULTING FROM TEMPORARY BRACES OR FIXTURES BY FILING OR GRINDING, BEFORE CLEANING, TREATING, AND SHOP PRIMING.
E. SEAL WELD OPEN ENDS OF HOLLOW STRUCTURAL SECTIONS WITH 3/8-INCH CLOSURE PLATES, UNLESS OTHERWISE NOTED.
F. LIMIT BUTT AND PLUG WELD PROJECTIONS TO 1/16 INCH.
G. INSTALL BOLT HEADS ON THE SAME SIDE OF EACH CONNECTION AND MAINTAIN ORIENTATION CONSISTENTLY FROM ONE CONNECTION TO ANOTHER.
H. REMOVE WELD SPATTER, SLIVERS, AND SIMILAR SURFACE DISCONTINUITIES.
I. REMOVE BLEMISHES AND SURFACE IRREGULARITIES RESULTING FROM TEMPORARY BRACES OR FIXTURES BY FILING OR GRINDING, BEFORE CLEANING, TREATING, AND SHOP PRIMING.
J. GRIND TACK WELDS SMOOTH UNLESS INCORPORATED INTO FINAL WELDS.
K. REMOVE BACKING AND RUNOFF TABS, AND GRIND WELDS SMOOTH.
L. LIMIT AS-FABRICATED STRAIGHTNESS TOLERANCE TO ONE-HALF THAT PERMITTED FOR STRUCTURAL-STEEL MATERIALS IN ANSIAISC 303.
M. LIMIT AS-FABRICATED CURVED STRUCTURAL STEEL TOLERANCE TO THAT PERMITTED FOR STRUCTURAL-STEEL MATERIALS IN ANSIAISC 303.
N. LIMIT AS-FABRICATED STRAIGHTNESS TOLERANCE OF WELDED BUILT-UP MEMBERS TO ONE-HALF THAT PERMITTED BY AWS D1.1/D1.1M.
O. CONCEAL FABRICATION AND ERECTION MARKINGS FROM VIEW IN THE COMPLETED STRUCTURE.
P. MAKE WELDS UNIFORM AND SMOOTH.

ABBREVIATIONS:

Table with 2 columns: Abbreviation and Full Name. Includes entries like @ AT, BP BASE PLATE, BOTT BOTTOM, CL CENTERLINE, CLR CLEAR, COL COLUMN, CONC CONCRETE, CONN CONNECTION, DIA DIAMETER, EQ EQUIVALENT, EW EACH WAY, EX EXISTING, FTG FOOTING, HORIZ HORIZONTAL, LLV LONG LEG VERTICAL, NTS NOT TO SCALE, PL PLATE, REINF REINFORCEMENT, SOG SLAB ON GRADE, SQ SQUARE, STL STEEL, T/ TOP OF, TYP TYPICAL, VERT VERTICAL, W/ WITH.



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REVISION DESCRIPTION

Table with 2 columns: MRK and DATE. Contains multiple empty rows for revision tracking.

Table with 2 columns: Field and Value.
COMM NO: 230230
DATE: 09/11/2024
DRAWN: TAG DESIGN: JWR
CHECK: JMC

SHEET TITLE
STRUCTURAL GENERAL
NOTES

Table with 2 columns: SHT. NO. and REV. NO.
SHT. NO. S-001

C. SPECIAL INSPECTIONS

1. AN INDEPENDENT AGENCY MUST PERFORM SPECIAL INSPECTIONS PER THE NORTH CAROLINA BUILDING CODE (2018 EDITION) SECTION 1704.2 AND THE INTERNATIONAL BUILDING CODE 2018. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE SECTION 1704.2.1, THE RESPONSIBLE INSPECTOR MUST MEET THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING REQUIREMENTS OF THE STATE WHERE CONSTRUCTION TAKES PLACE. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 1110.
2. WRITTEN REPORTS MUST BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL STATING COMPLIANCE OR NON-COMPLIANCE WITH DESIGN DOCUMENTS AND SPECIFICATIONS. ALL REPORTS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE CONSTRUCTION TAKES PLACE.
3. WITH REGARDS TO SPECIAL INSPECTIONS:
 - A. CONTINUOUS - THE CONSTANT MONITORING OF SPECIFIC TASKS BY AN APPROVED SPECIAL INSPECTOR. THESE INSPECTIONS MUST BE CARRIED OUT CONTINUOUSLY OVER THE DURATION OF THE PARTICULAR TASKS.
 - B. PERFORM - PERFORM THESE TASKS FOR EACH ELEMENT, OCCURANCE, WELD, FASTENER OR BOLTED CONNECTION.
 - C. OBSERVE - OBSERVE THESE SPECIAL INSPECTION ITEMS ON A PERIODIC DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
 - D. DOCUMENT MEANS TO DOCUMENT, WITH A REPORT, THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS IS IN ADDITION TO ANY OTHER REPORTS REQUIRED IN THE SPECIAL INSPECTIONS GUIDE SPECIFICATION.
4. FAILURE TO RETAIN AN INDEPENDENT TESTING AGENCY TO PERFORM THE REQUIRED SERVICES SPECIFIED ABOVE, OR FAILURE TO SUBMIT SIGNED AND SEALED REPORTS, INDICATES NON-COMPLIANCE WITH THE CONTRACT DOCUMENTS.

STRUCTURAL STEEL - WELDED SECTION

STEEL INSPECTION PRIOR TO WELDING-VERIFY THE FOLLOWING ARE IN COMPLIANCE WITH IBC 1705.2.1, AISC 360-10: TABLE C-N5.4-1

INSPECTION REQ (Y/N)	TASK	INSPECTION TYPE	DESCRIPTION
Y	1. VERIFY THAT THE WELDING PROCEDURES SPECIFICATION (WPS) IS AVAILABLE	PERFORM	
Y	2. VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES ARE AVAILABLE	PERFORM	
Y	3. VERIFY MATERIAL IDENTIFICATION	PERFORM	TYPE AND GRADE
Y	4. WELDER IDENTIFICATION SYSTEM	PERFORM	THE FABRICATOR OR ERECTOR, AS APPLICABLE, MUST MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE
N	5. FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE	-JOINT PREPARATION
			-DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)
			-CLEANLINESS (CONDITION OF STEEL SURFACES)
			-TACKING (TACK WELD QUALITY AND LOCATION)
	-BACKING TYPE AND FIT (IF APPLICABLE)		
Y	6. FIT-UP OF FILLET WELDS	OBSERVE	-DIMENSIONS (ALIGNMENT, GAPS AT ROOT)
			-CLEANLINESS (CONDITION STEEL SURFACES)
			-TACKING (TACK WELD QUALITY AND LOCATION)

STEEL INSPECTION DURING WELDED-VERIFY THE FOLLOWING ARE IN COMPLIANCE WITH IBC 1705.2.1, AISC 360-10: TABLE C-N5.4-2

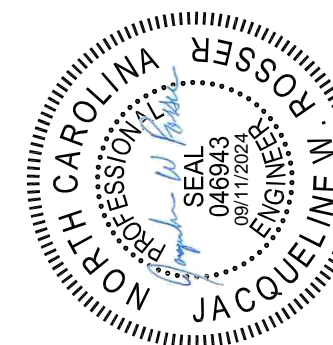
INSPECTION REQ (Y/N)	TASK	INSPECTION TYPE	DESCRIPTION
Y	7. USE OF QUALIFIED WELDERS	PERFORM	WELDING BY WELDERS, WELDING OPERATORS, AND TACK WELDERS WHO ARE QUALIFIED IN CONFORMANCE WITH REQUIREMENTS
Y	8. CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	-PACKAGING
			-ELECTRODE ATMOSPHERIC EXPOSURE CONTROL
Y	9. NO WELDING OVER CRACKED TACK WELDS	OBSERVE	
Y	10. ENVIRONMENTAL CONDITIONS	OBSERVE	-WIND SPEED WITHIN LIMITS
			-PRECIPITATION AND TEMPERATURE
			-SETTINGS ON WELDING EQUIPMENT
Y	11. WELDING PROCEDURES SPECIFICATIONS FOLLOWED	OBSERVE	-TRAVEL SPEED
			-SELECTED WELDING MATERIALS
			-SHIELDING GAS TYPE/FLOW RATE
			-PREHEAT APPLIED
			-INTERPASS TEMP MAINTAINED (MIN/MAX)
			-PROPER POSITION (F, V, H, OH)
			-INTERMIX OF FILLER MATERIAL AVOIDED
			-INTERPASS AND FINAL CLEANING
Y	12. WELDING TECHNIQUES	OBSERVE	-EACH PASS WITHIN PROFILE LIMITATIONS
			-EACH PASS MEETS QUALITY REQUIREMENTS

STEEL INSPECTION AFTER WELDING-VERIFY THE FOLLOWING ARE IN COMPLIANCE WITH IBC 2015 1705.2.1, AISC 360-10: TABLE C-N5.4-3

INSPECTION REQ (Y/N)	TASK	INSPECTION TYPE	DESCRIPTION
Y	13. WELDS CLEANED	OBSERVE	
Y	14. SIZE, LENGTH, AND LOCATION OF ALL WELDS	PERFORM	SIZE, LENGTH, AND LOCATION OF ALL WELDS CONFORM TO THE REQUIREMENTS OF THE DETAIL DRAWINGS
Y	15. WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM AND DOCUMENT	-CRACK PROHIBITION
			-WELD/BASE-METAL FUSION
			-CRATER CROSS SECTION
			-WELD PROFILES
			-WELD SIZE
	-UNDERCUT		
	-POROSITY		
Y	16. ARC STRIKES	PERFORM	
N	17. K-AREA	PERFORM	WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS
Y	18. BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED WHERE REQUIRED	PERFORM AND DOCUMENT	
Y	19. REPAIR ACTIVITIES	PERFORM AND DOCUMENT	
Y	20. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERFORM	



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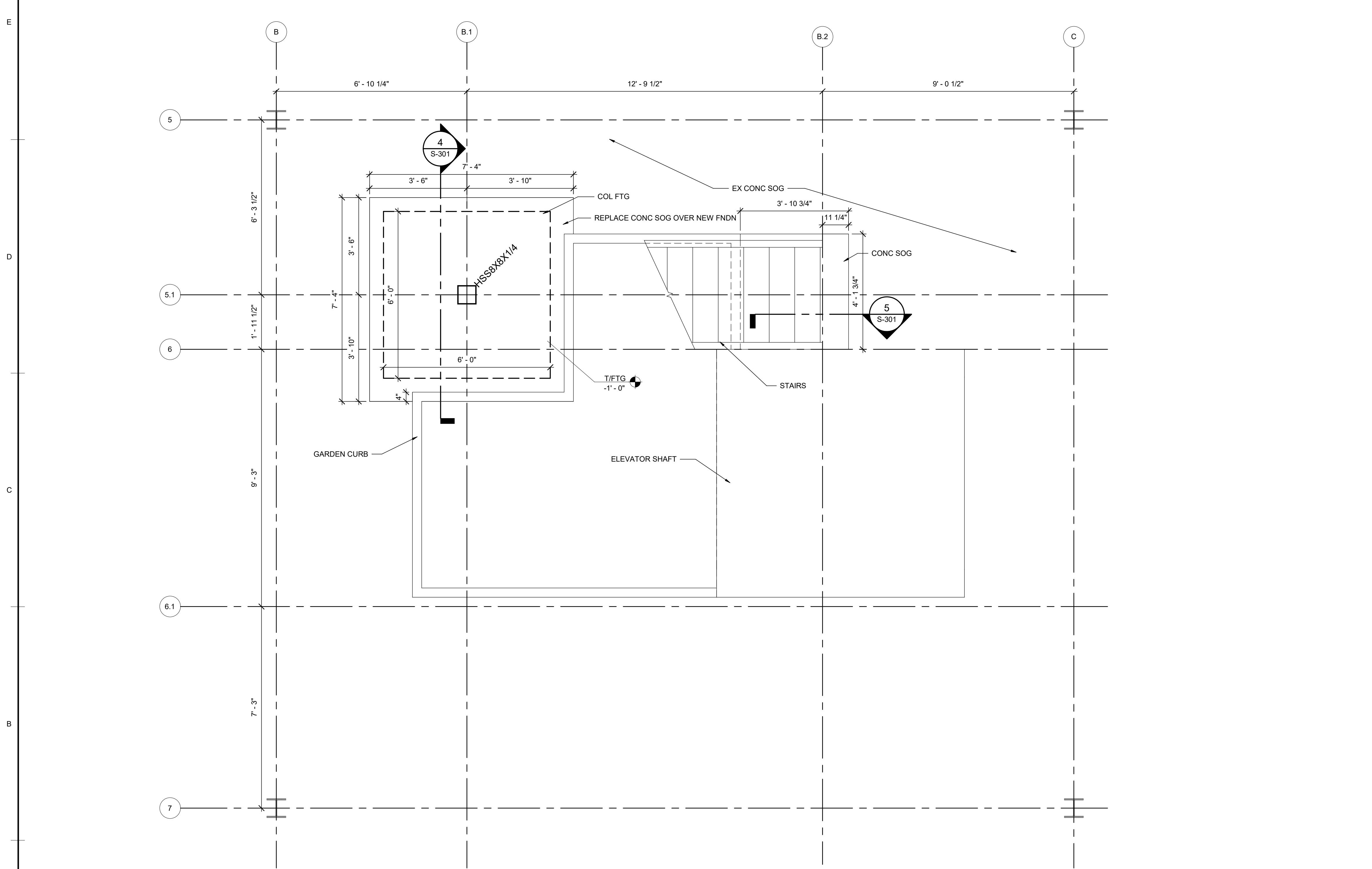
REVISION DESCRIPTION

MRK DATE

COMM NO: 230230
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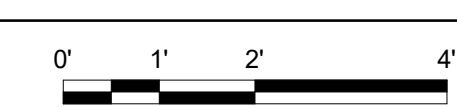
SHEET TITLE
SPECIAL INSPECTIONS

SHT. NO. S-002
REV. NO.



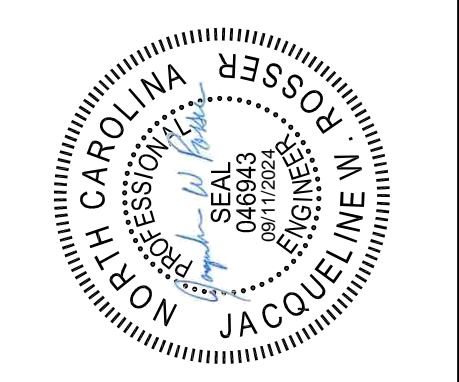
1 FOUNDATION PLAN

SCALE: 1/2" = 1'-0"



PLAN NOTES

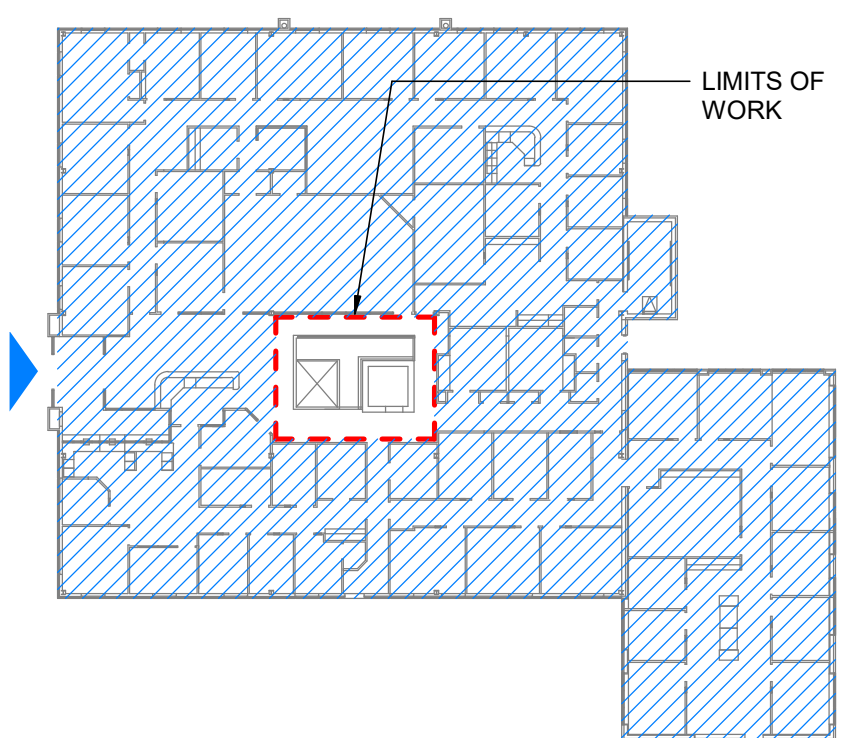
1. NEW CONCRETE SLAB ON GRADE MUST BE 5" THICK, REINFORCED WITH 6X6 W2.1 X 2.1 WWF OVER 15 MIL VAPOR RETARDER AND COMPACTED STONE.



ORANGE WATER AND SEWER
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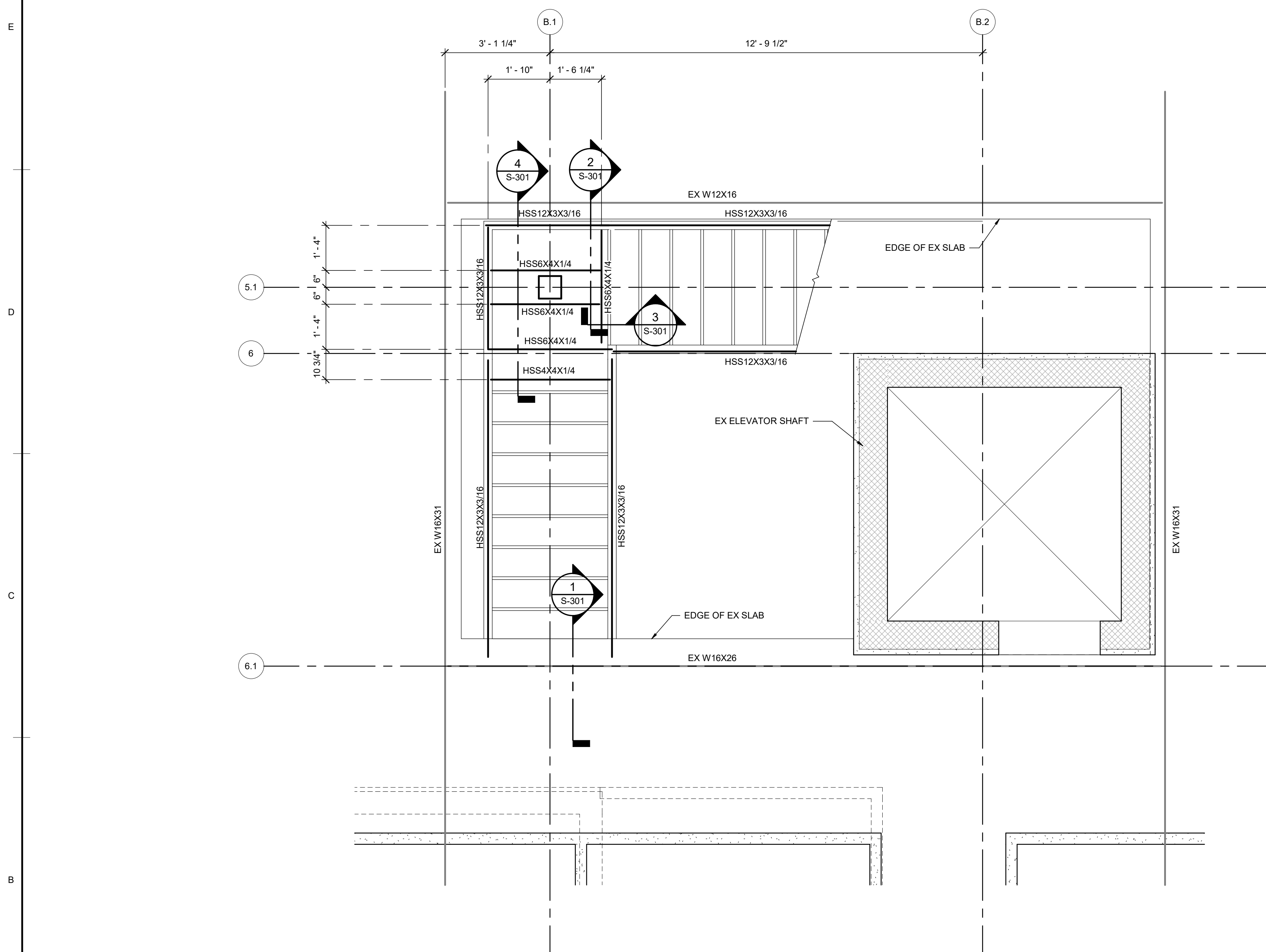
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KEY PLAN

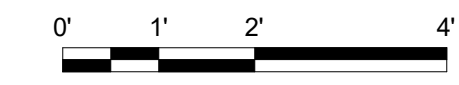


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FOUNDATION PLAN	
SHT. NO.	REV. NO.
S-101	

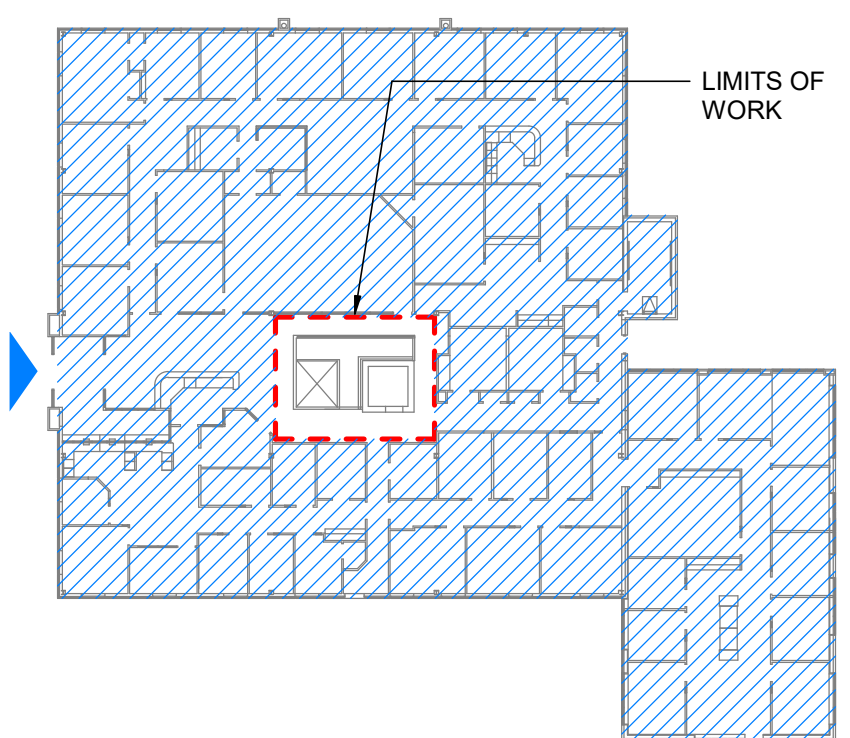


1 SECOND FLOOR FRAMING PLAN
SCALE: 1/2" = 1'-0"

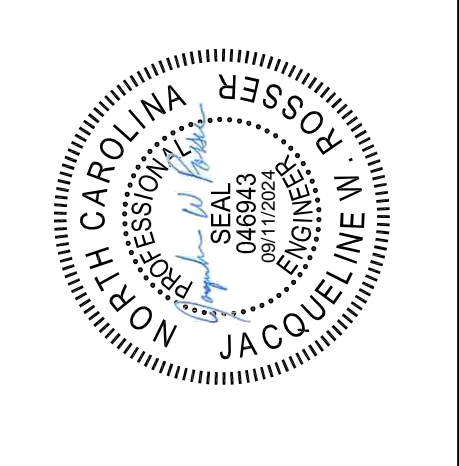


PLAN NOTES

KEY PLAN



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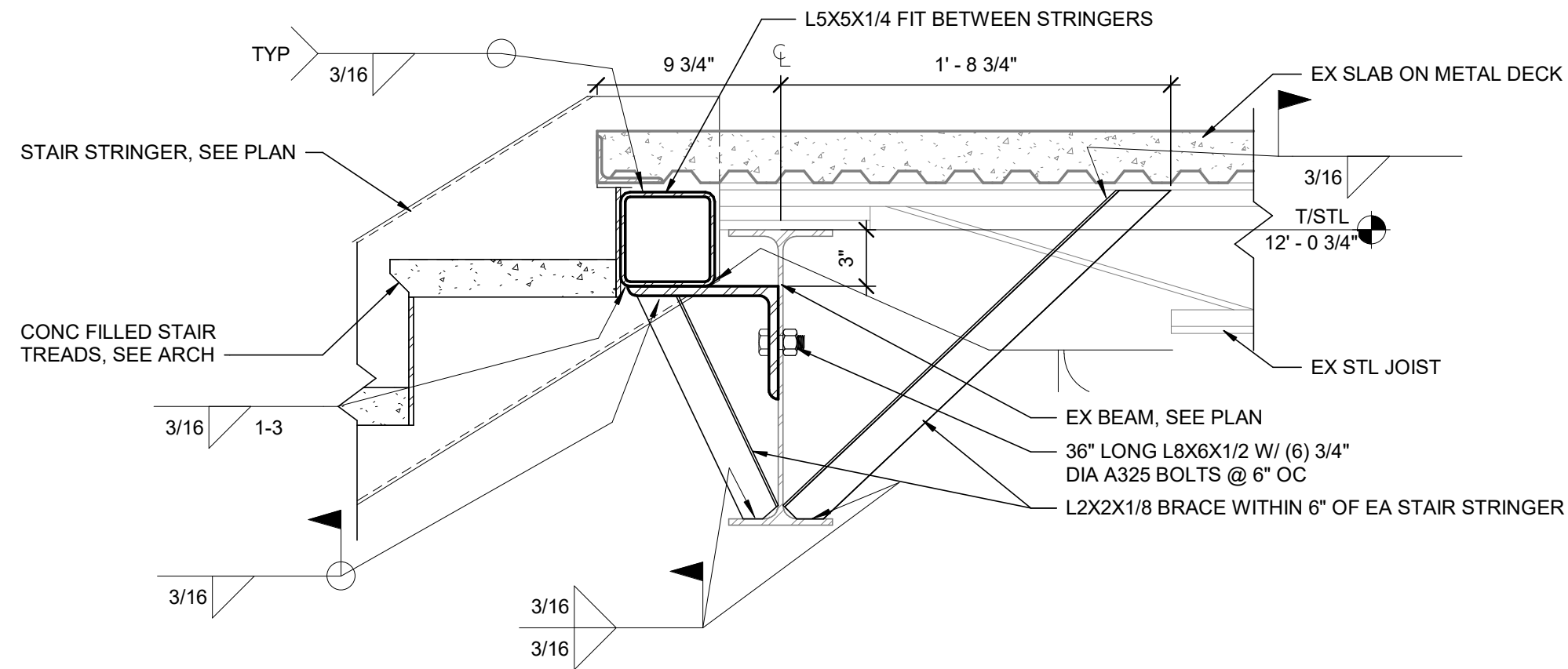


ORANGE WATER AND SEWER AUTHORITY (OWASA) ADMINISTRATION BUILDING
MONUMENTAL STAIR RENOVATION

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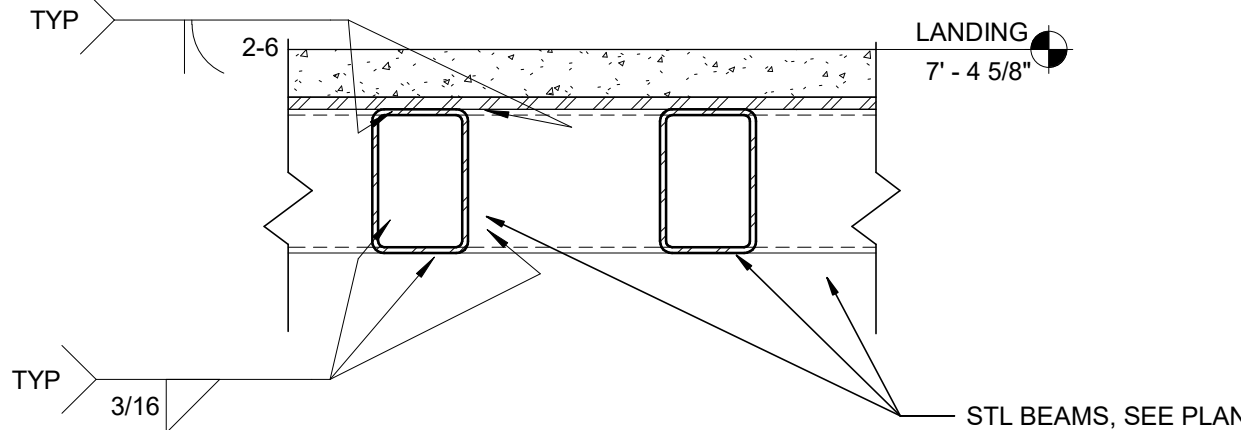
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SECOND FLOOR FRAMING PLAN	
SHT. NO.	REV. NO.
S-102	



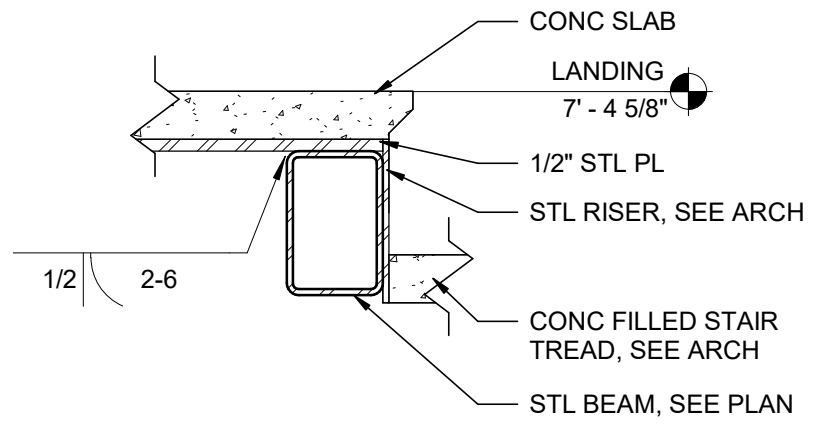
1 SECTION

S-102 SCALE: 1 1/2" = 1'-0"



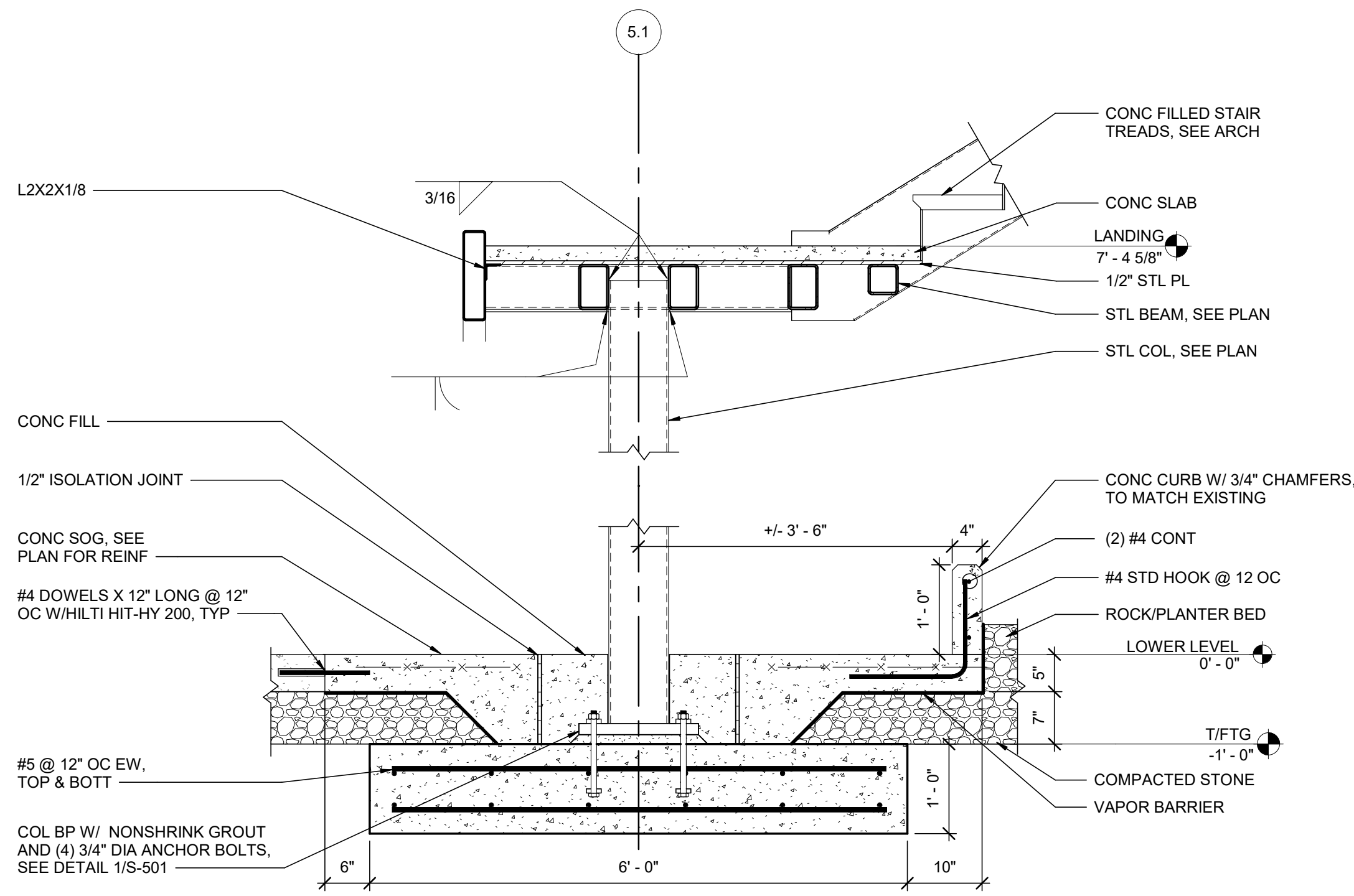
2 SECTION

S-102 SCALE: 1 1/2" = 1'-0"



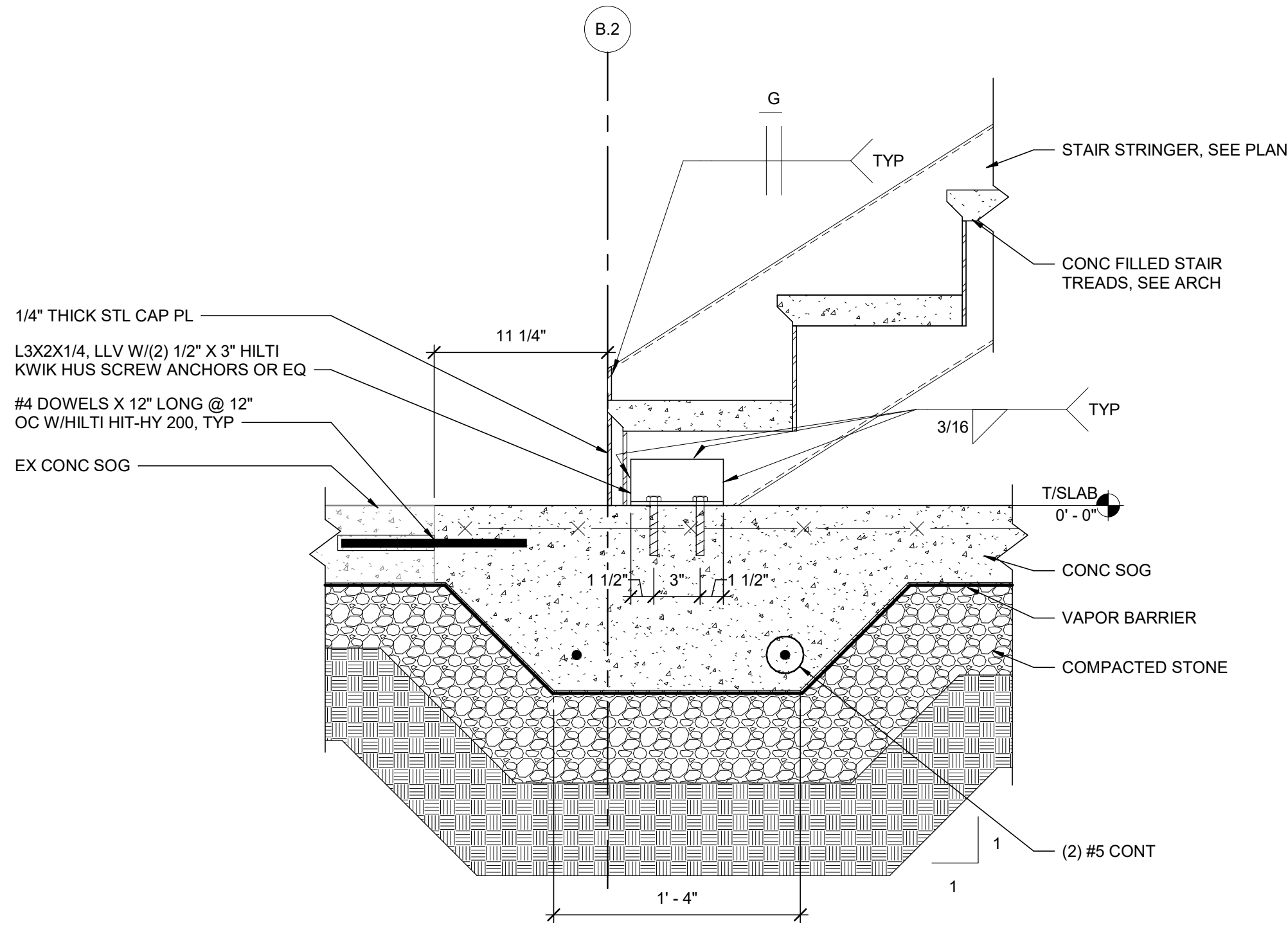
3 SECTION

S-102 SCALE: 1 1/2" = 1'-0"



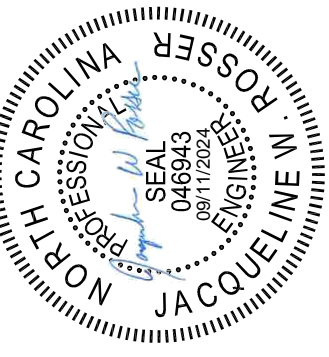
4 SECTION

S-101 SCALE: 3/4" = 1'-0"



5 SECTION

S-101 SCALE: 1 1/2" = 1'-0"



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SHEET TITLE	
STRUCTURAL SECTIONS	

SHT. NO.	REV. NO.
S-301	

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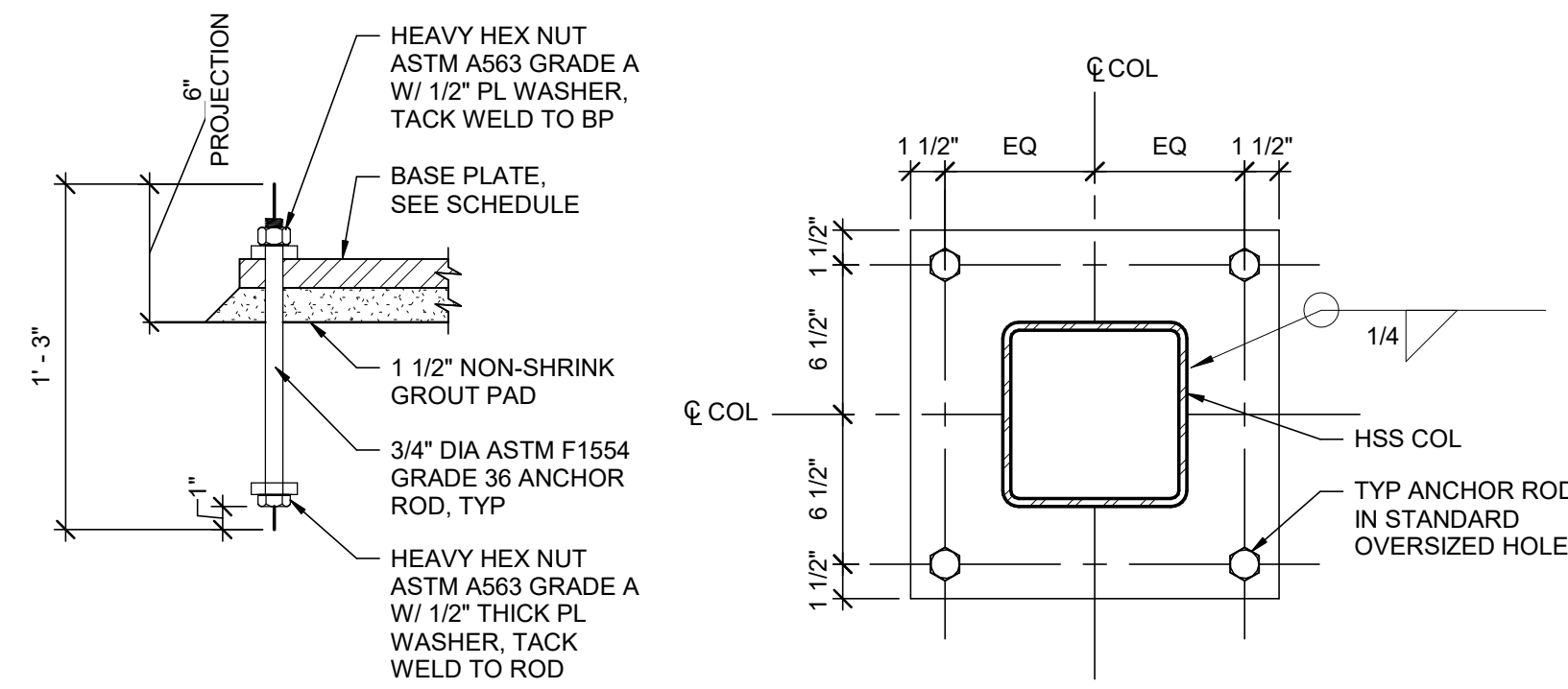
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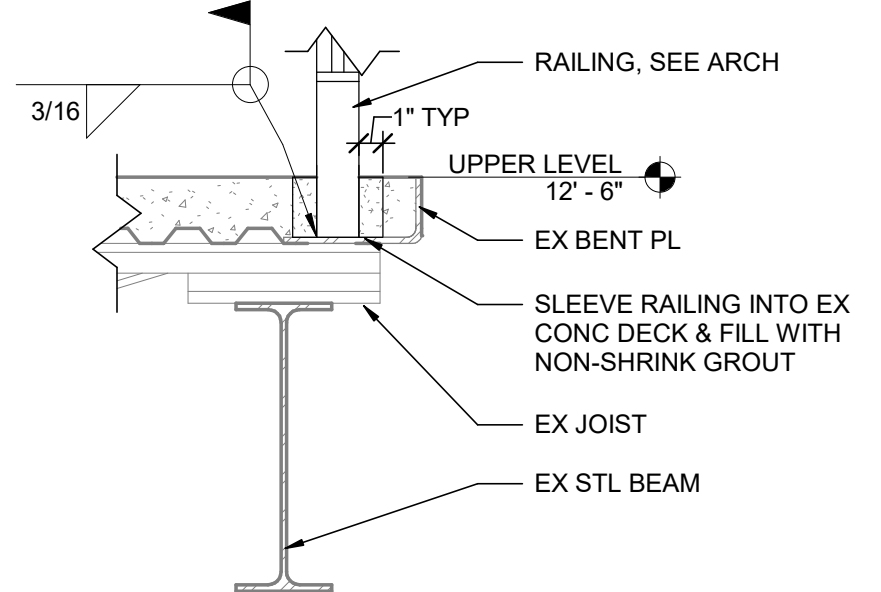
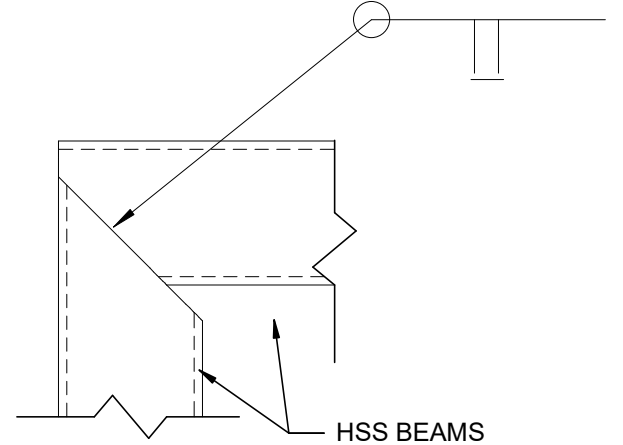
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1



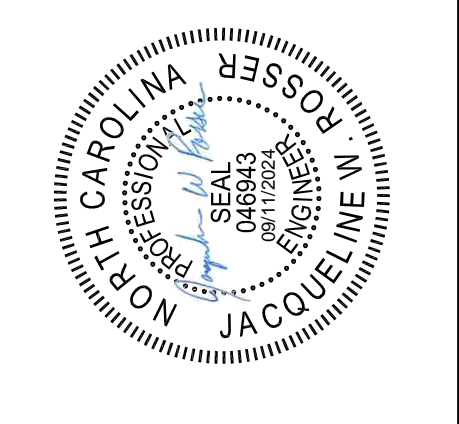
BASE PLATE SCHEDULE 1	
COLUMN TYPE	PLATE SIZE
HSS8x8	1 1/4"X16"X1'-4"



1 **TYP BASE PLATE & ANCHOR ROD DETAIL**
NOT TO SCALE:

2 **HSS TO HSS CONN**
NOT TO SCALE:

3 **RAILING CONNECTION**
NOT TO SCALE:



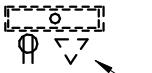

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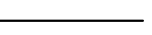
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TYPICAL STRUCTURAL DETAILS	
SHT. NO.	REV. NO.
S-501	


DEMOLITION LEGEND

-  REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE PROJECT DEMOLITION NOTES.
-  INDICATES DEVICE AND EQUIPMENT STATUS. REFER TO IDENTIFICATION TAG PREFIX DESIGNATOR LIST BELOW.





CIRCUITRY, RACEWAYS AND FEEDERS LEGEND

-  FEEDER HOMERUN
-  CONDUIT RUN CONCEALED IN FINISHED AREAS AND EXPOSED IN UNFINISHED AREAS. SEE GENERAL NOTES.

WIRING DEVICES LEGEND

- NOTE:
- REFER TO "TYPICAL DEVICE MOUNTING HEIGHTS" DETAIL FOR DEVICE MOUNTING HEIGHTS.
-  DUPLEX RECEPTACLE, NEMA 5-20R. RECESSED DEVICE DENOTED AS ROUND HEAD. SURFACE MOUNTED DEVICE DENOTED AS SQUARE HEAD. TYPICAL ALL RECEPTACLE TYPES.

LIGHTING EQUIPMENT LEGEND

- EMERGENCY & EXIT LIGHTING SYMBOLS**
-  LUMINAIRES TAGGED WITH #E (EXAMPLE: AE) INDICATE EMERGENCY EGRESS AND DISCHARGE LIGHTING. SPECIFIC APPLICATION INDICATED ON DRAWINGS.
 -  EMERGENCY LIGHTING BATTERY UNIT WITH DUAL HEADS. UNIT SHALL PROVIDE 90 MINUTES (MINIMUM) OF EMERGENCY POWER.
 -  ILLUMINATED EXIT SIGN
TWO SHADED QUADRANT - DOUBLE FACE EXIT SIGN
 -  EXIT SIGN WITH INTEGRAL LIGHTING
- REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

LIGHTING GENERAL NOTES

- SEE LUMINAIRE SCHEDULES, LIGHTING CONTROL DIAGRAMS, AND SEQUENCE OF OPERATIONS FOR MORE INFORMATION.
- COORDINATE PLACEMENT OF LUMINAIRES ON AND IN CEILINGS WITH ARCHITECTURAL CEILING PLANS AND ALL OTHER CEILING MOUNTED DEVICES FROM OTHER TRADES.
- SUPPORT LUMINAIRES FROM THE BUILDING STRUCTURE INDEPENDENT OF DUCTS, PIPES, CEILINGS AND THEIR SUPPORT MEMBERS. COORDINATE ALL ELECTRICAL EQUIPMENT WITH ALL OTHER TRADES TO AVOID CONFLICTS. PROVIDE ALL NECESSARY FITTINGS, STRUT CHANNELS, EQUIPMENT, HANGERS, OFFSETS, ROUTING, ETC. TO AVOID CONFLICTS.
- INSTALL DRIVERS, LOW-VOLTAGE TRANSFORMERS, LIGHTING SYSTEM CONTROL DEVICES, AND SIMILAR LUMINAIRES ACCESSORIES IN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS AS REQUIRED.
- PROVIDE ALL ACCESSORIES INCLUDING LED ARRAYS, DRIVERS, TRANSFORMERS, SUPPORTS, AND CIRCUITRY AS NECESSARY FOR A COMPLETE AND OPERATIONAL LIGHTING SYSTEM PER PROJECT REQUIREMENTS.
- PROVIDE A SEPARATE NEUTRAL FOR EACH SINGLE PHASE LIGHTING CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
- PROVIDE PLENUM RATED LIGHTING CONTROL CABLES FOR LIGHTING CONTROL DEVICES LOCATED ABOVE CEILINGS NOT ROUTED IN CONDUIT.
- ENSURE DIMMING DRIVER COMPATIBILITY WITH ASSOCIATED DIMMING CONTROL DEVICES AND ANY BUILDING LIGHTING CONTROL SYSTEM.
- PROVIDE CONTROLLED EGRESS LIFE SAFETY LIGHTING WITH A UL924 LISTED BY-PASS RELAY DEVICE TO TRANSFER LIFE SAFETY LIGHTING FROM CONTROLLED NORMAL POWER TO LIFE SAFETY POWER OR A UL924 LISTED SHUNT DEVICE TO TRANSITION CONTROLLED LIFE SAFETY LIGHTING TO FULL OUTPUT.
- CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS AHEAD OF LOCAL SWITCHING.

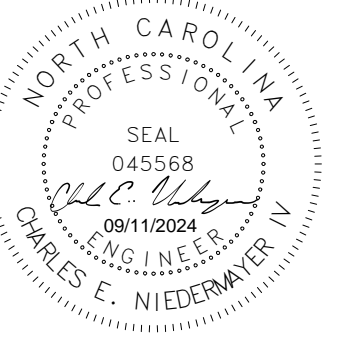
LUMINAIRE SCHEDULE													
TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	LAMP	LUMENS	EMERGENCY LUMENS	VOLTAGE	WATTAGE	DRIVER	CRI	CCT	MOUNTING	COMMENTS
(E1)	EXISTING EXIT SIGN			LED			120 V	5 VA				CEILING MOUNT	EXISTING LUMINAIRE TO REMAIN.
(E2)	EXISTING AMBIENT DOWNLIGHTS			LED			120 V	12 VA		80	4100 K	RECESSED	EXISTING LUMINAIRE TO REMAIN.
(E3)	EXISTING EXIT SIGN WITH EMERGENCY LUMINAIRES	Cooper Lighting		LED								CEILING MOUNT	EXISTING LUMINAIRE TO REMAIN.
(E)	EXISTING WALL MOUNT CYLINDER AT SKYLIGHT LEVEL						120 V					WALL MOUNT	EXISTING LUMINAIRE TO REMAIN.
(R)	UNDERSIDE OF STAIR GROW LIGHT						120 V					WALL MOUNT	EXISTING LUMINAIRE TO BE REMOVED AND STORED FOR REINSTALLATION IN NEW SCOPE OF WORK.
AE	SELF ENCLOSED EMERGENCY LUMINAIRE WITH SELF DIAGNOSTICS AND SELF TESTING. NOMINAL 11-INCH LONG BY 5.5-INCH TALL BY 1.75-INCH DEEP THERMOPLASTIC HOUSING. WHITE FINISH.	SURE-LITES LITHONIA HOLOPHANE	SEL25	LED		108	120 V	1 VA				WALL MOUNT	LUMINAIRE TO BE NORMALLY OFF AND TO PROVIDE FULL LUMEN OUTPUT WHEN NORMAL POWER IS LOST.
AE1	SELF ENCLOSED EMERGENCY LUMINAIRE WITH SELF DIAGNOSTICS AND SELF TESTING. NOMINAL 11-INCH LONG BY 5.5-INCH TALL BY 1.75-INCH DEEP THERMOPLASTIC HOUSING. WHITE FINISH.	SURE-LITES LITHONIA HOLOPHANE	SEL25	LED		108	120 V	1 VA				CEILING MOUNT	LUMINAIRE TO BE NORMALLY OFF AND TO PROVIDE FULL LUMEN OUTPUT WHEN NORMAL POWER IS LOST.

GENERAL SHEET NOTES

SHEET KEYNOTES



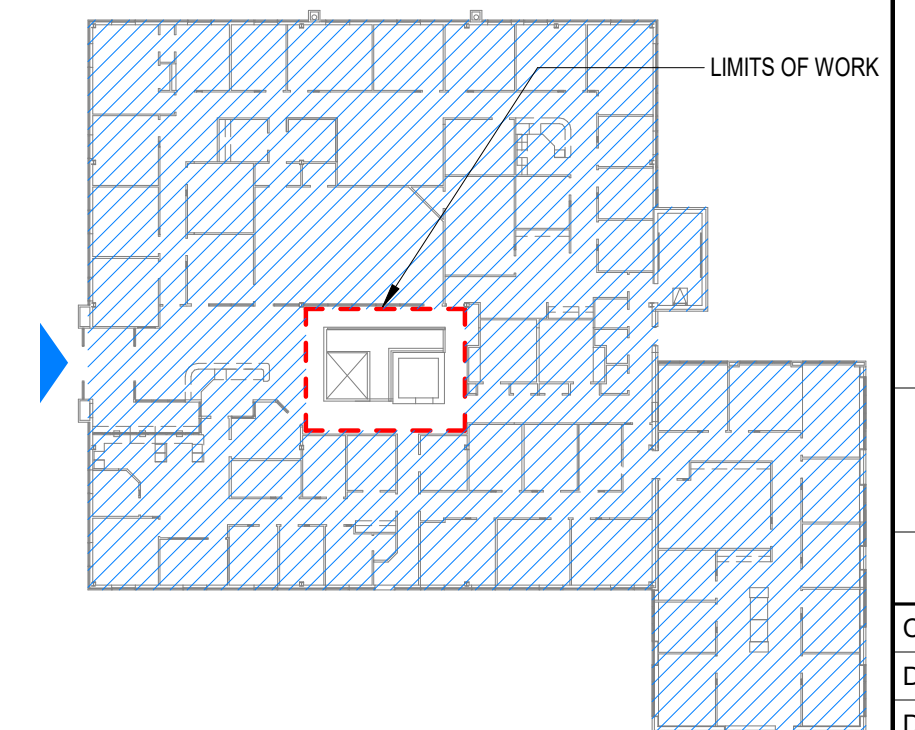
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ORANGE WATER AND SEWER
AUTHORITY (OWASA)
ADMINISTRATION BUILDING
MONUMENTAL STAIR RENOVATION

400 JONES FERRY ROAD CARRBORO, NC 27510

KEY PLAN



GRAPHIC SCALE(S)

COMM NO:	230230
DATE:	09/11/2024
DRAWN:	DPO DESIGN: KW
CHECK:	CEN
SHEET TITLE	
ELECTRICAL LEGENDS AND SYMBOLS	
SHT. NO.	REV. NO.
E-001	

REVISION DESCRIPTION

MRK DATE

ELECTRICAL GENERAL NOTES

- IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. PROVIDE ALL LABOR, MATERIALS, TESTS, AND OTHER SERVICES AS MAY BE NECESSARY TO ACHIEVE THIS PRODUCT. ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY AND DEPICT SYSTEMS CONCEPTS, MAIN COMPONENTS, AND APPROXIMATE GEOMETRICAL RELATIONSHIP OF SYSTEMS COMPONENTS. PROVIDE ALL COMPONENTS AND MATERIALS NECESSARY TO PROVIDE FULLY COMPLETE AND FUNCTIONING SYSTEMS AS INDICATED ON DRAWINGS. PROVIDE INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT SHOWN ON PLANS AND VICE VERSA, AS IF EXPRESSLY REQUIRED ON BOTH.
- SYMBOLS SHOWN IN THE LEGENDS ARE STANDARD SYMBOLS AND ALL MAY NOT NECESSARILY BE APPLICABLE TO THIS PROJECT.
- CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. CORRECTLY SPACE THE CIRCUITS IN THE PANEL AND BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS.
- CONDUIT HOMERUNS SHOWN ON THE DRAWING WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. INSTALL NO MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY IN COMPLIANCE OF THE NATIONAL ELECTRIC CODE.
- REVIEW ENTIRE CONSTRUCTION DOCUMENTS PACKAGE AND COORDINATE WORK OF OTHER TRADES. COORDINATE LOCATIONS OF EQUIPMENT, MOUNTING HEIGHTS, CONNECTION REQUIREMENTS, CONSTRUCTION HEADROOM, FINISHES, CASEWORK, ETC.
- ALL WORK SHALL BE DONE AT SUCH TIMES AND IN SUCH A MANNER AS WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF ALL RELATED OR AFFECTED SYSTEMS. COORDINATE ALL POWER OUTAGES, FIRE ALARM SHUT DOWNS, ETC. WITH THE OWNER.
- INSTALL ALL EQUIPMENT, DEVICES, AND CONDUIT IN A NEAT AND WORKMANLIKE MANNER PERPENDICULAR AND PARALLEL TO BUILDING STRUCTURE.
- FIRESTOP ALL PENETRATIONS OF FLOOR AND WALLS TO RETAIN ORIGINAL FIRE RATING IN ACCORDANCE WITH IBC, NEC, NFPA AND OTHER STANDARDS ENFORCEABLE BY THE AHJ. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS OF ALL RATED WALLS, CEILINGS AND FLOORS.
- REFER TO ARCHITECTURAL PLANS FOR ALL WALL ASSEMBLIES. PROVIDE EXTENDER RINGS WHERE NECESSARY FOR FLUSH MOUNTED WIRING DEVICES.
- PROVIDE ALL RACEWAYS ROUTED ACROSS BUILDING EXPANSION JOINTS WITH EXPANSION FITTINGS.
- CONCEAL ALL CONDUCTORS, RACEWAYS AND CABLES IN CEILING OR WALL UNLESS OTHERWISE NOTED.
- PROVIDE AN UPDATED PRINTED PANEL DIRECTORY IN EACH PANEL AFTER COMPLETION OF WORK.
- VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- PROVIDE ALL STUBBED UP CONDUIT WITH BUSHINGS TO PROTECT CABLE.
- ROUTE CONTROL WIRING IN SEPARATE CONDUITS FROM POWER WIRING.
- INSTALL CONDUCTORS CONTINUOUS BETWEEN DEVICES, WITH SPLICES LOCATED ONLY IN JUNCTION BOXES OR IN CABINETS. CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO REACH THE FARTHEST TERMINAL IN PANELS. PROVIDE A MINIMUM OF 6" LOOPS WHERE CONNECTIONS OR TAPS ARE TO BE MADE IN BRANCH CIRCUIT WIRING.
- PROVIDE ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FT. WITH A NYLON PULL WIRE OR FISH TAPE/CORD.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ELECTRICAL DEMOLITION NOTES

- PERFORM DEMOLITION IN PHASES WHERE INDICATED OR REQUIRED. PROVIDE TEMPORARY SERVICES TO AFFECTED SYSTEMS FROM SOURCES OUTSIDE AFFECTED AREA TO MAINTAIN SERVICE WHERE REQUIRED.
- VISIT THE PROJECT LOCATION AND FIELD-VERIFY THE EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FAILURE BY THE CONTRACTOR TO HAVE ACQUAINTED THEMSELVES WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS, INCLUDING EXISTING DRAWINGS, DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES OF PERFORMANCE OF WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- COORDINATE DEMOLITION WORK WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND DO NOT INTERFERE WITH ACTIVITIES IN OTHER BUILDING AREAS. PROMPTLY REMOVE AND DISPOSE OF DEMOLISHED MATERIALS, UNLESS SPECIFICALLY INDICATED TO REMAIN OR BE TURNED OVER TO THE OWNER, PARTICULARLY MATERIALS CONTAINING HAZARDOUS MATERIALS SUCH AS LAMPS CONTAINING MERCURY OR TRANSFORMERS CONTAINING PCB'S. COORDINATE APPROPRIATE STAGING AREA WITH THE OWNER. COORDINATE WITH OWNER FOR OWNER-REMOVAL OF PROPERTY FROM THE PROJECT LOCATION.
- COORDINATE ALL DEMOLITION WORK WITH THE HAZMAT ABATEMENT/MITIGATION WORK. REMOVE ELECTRICAL WORK WHICH MUST BE REMOVED PRIOR TO ABATEMENT ACTIVITIES TO ACCOMMODATE THE ABATEMENT IN A MANNER SO THAT THE HAZARDOUS MATERIALS ARE NOT DISTURBED. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO:
 - WHERE HANGERS/SUPPORTS ARE INSTALLED ON ASBESTOS-COATED STRUCTURE, EQUIPMENT OR CIRCUITRY MAY BE REMOVED PRIOR TO ABATEMENT; HOWEVER THE HANGERS/SUPPORTS TO REMAIN FOR REMOVAL DURING ABATEMENT.
 - WHERE CIRCUITRY PASSES THROUGH ASBESTOS-COATED STRUCTURE, THE ASSOCIATED CONDUIT MAY BE REMOVED TO WITHIN 6" OF THE PENETRATION PRIOR TO ABATEMENT. REMOVE THE REMAINDER OF THE CONDUIT DURING ABATEMENT AND PERFORM WALL REPAIR AFTER ABATEMENT.
- REPAIR DAMAGE TO THE BUILDING AREAS IDENTIFIED TO REMAIN WHICH OCCURS DURING THE COURSE OF THE DEMOLITION. REPAIR TO MATCH SURROUNDING SURFACES.
- COORDINATE SHUTDOWNS OR SERVICE INTERRUPTIONS WITH AND APPROVED BY THE OWNER. PROVIDE NOTICE AND WORK PLAN FOR APPROVAL A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO SHUTDOWN OR SERVICE INTERRUPTION.
- PROVIDE TEMPORARY POWER FOR EQUIPMENT REQUIRED TO REMAIN OPERATIONAL FOR THE PRESERVATION OF THE BUILDING. EXISTING ELECTRICAL WORK ASSOCIATED WITH SUCH EQUIPMENT TO REMAIN UNTIL REPLACEMENT EQUIPMENT IS OPERATIONAL.
- COORDINATE ELECTRICAL DEMOLITION WORK WITH WORK OF OTHER TRADES. SEE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING AND FIRE PROTECTION FOR RELATED WORK.
- PROTECT ALL EXISTING EQUIPMENT AND SYSTEMS INDICATED TO REMAIN WITHIN THE PROJECT AREA. DEMONSTRATE FUNCTIONALITY DURING TESTING OF THE NEW SYSTEMS.
- PERFORM DEMOLITION IN PHASES WHERE INDICATED OR REQUIRED. PROVIDE TEMPORARY SERVICES TO AFFECTED SYSTEMS FROM SOURCES OUTSIDE AFFECTED AREA TO MAINTAIN SERVICE WHERE REQUIRED.

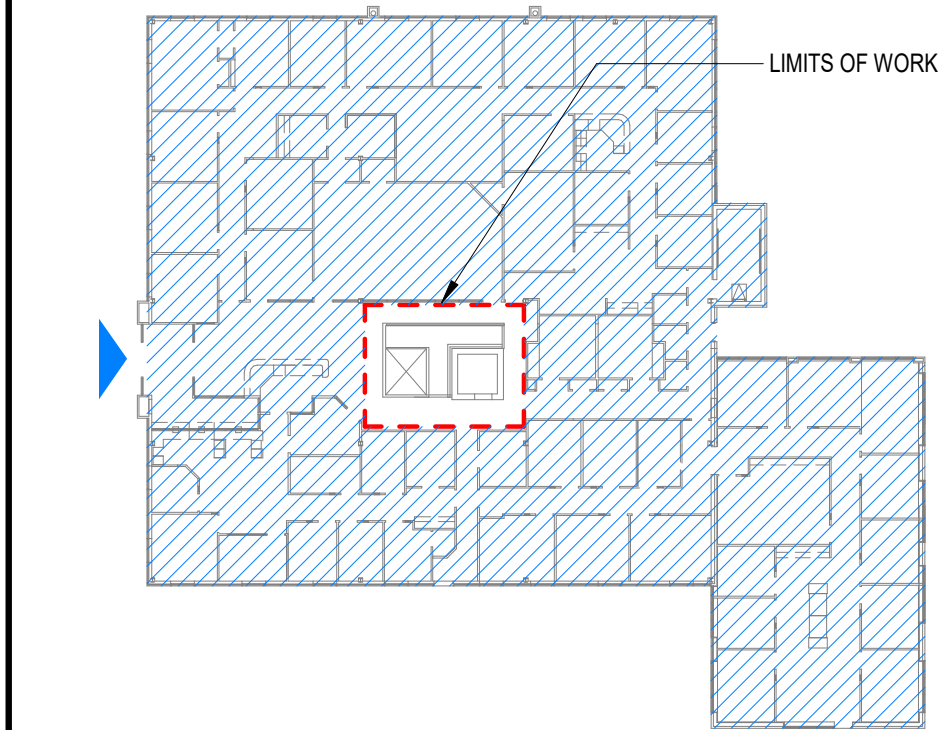
- PROVIDE ELECTRICAL DEVICES AND BACKBOXES INSTALLED WITHIN STC RATED ASSEMBLIES OF 45 AND ABOVE ACOUSTICAL PUTTY MATCHING THE RATING OF THE ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND DRAWING A-610 FOR LOCATIONS OF ALL RATED WALLS, CEILINGS AND FLOORS. SEE DETAIL E6 ON SHEET E-501.
- VERIFY ELECTRICAL REQUIREMENTS OF OWNER PROVIDED EQUIPMENT WITH OWNER PRIOR TO INSTALLATION OF WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN AND EXACT LOCATION AND QUANTITIES OF LUMINAIRE. ELECTRICAL LIGHTING PLANS ARE NOT INTENDED TO BE UTILIZED FOR LUMINAIRE LOCATIONS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION.
- SUPPORT LUMINAIRE INSTALLED IN SUSPENDED CEILINGS DIRECTLY FROM THE STRUCTURE.
- LABEL ALL ELECTRICAL J-BOXES WITH: PANEL NAME, CIRCUIT NUMBER, VOLTAGE, AND (IF APPLICABLE) EQUIPMENT SERVED.
- ORIENT RECEPTACLES AS FOLLOWS:
 - MOUNTED VERTICALLY, GROUND CONDUCTOR IS ON TOP.
 - MOUNTED HORIZONTALLY, GROUNDED CONDUCTOR (NEUTRAL) IS ON TOP.
- LABEL ALL CURRENT CARRYING CONDUCTORS, WHERE SPLICED OR TERMINATED AT A DEVICE, WITH THE CIRCUIT NUMBER A MINIMUM OF 3 INCHES BEFORE END OF WIRE.
- PERFORM ALL ELECTRICAL WORK IN ACCORDANCE WITH NFPA 70 2023 NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AND THE AUTHORITY HAVING JURISDICTION (AHJ). PROVIDE ALL EQUIPMENT, DEVICES, AND MATERIAL WITH UNDERWRITERS LABORATORIES FOR ITS APPLICATION AS INSTALLED AND THE UL LABEL.
- OBTAIN ALL PERMITS AND PAY SUCH FEES AS MAY BE NECESSARY FOR INSPECTIONS, TESTS, AND OTHER SERVICES WHICH ARE REQUIRED FOR THE COMPLETION OF THE WORK.
- VISIT THE SITE AND EXAMINE CONDITIONS OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS. BRING ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS TO THE ATTENTION OF ARCHITECT/ENGINEER BEFORE BIDDING.
- SUBMIT REQUIRED SHOP DRAWINGS FOR ELECTRICAL EQUIPMENT, FIXTURES, DEVICES AND MATERIALS FOR APPROVAL BEFORE DELIVERY TO THE JOB SITE. EQUIPMENT, LUMINAIRE, DEVICES, AND MATERIAL DELIVERED TO THE JOB SITE OR INSTALLED PRIOR TO APPROVAL OF THE SHOP DRAWINGS, AND FOR WHICH THE SHOP DRAWINGS ARE SUBSEQUENTLY REJECTED, REPLACE WITH AN APPROVED ITEM AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE AS BUILT DRAWINGS AND ALL MANUFACTURER'S DATA AND WARRANTY LITERATURE AT THE COMPLETION OF THE CONTRACT.
- GUARANTEE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
- LABEL DEVICE FINISH PLATES (RECEPTACLES AND SWITCHES) WITH PANEL NAME AND CIRCUIT NUMBER ON CLEAR TAPE WITH BLACK TEXT.
- CLEAN ALL FACEPLATES AND LUMINAIRE TO REMOVE ALL SMUDGES AND FINGERPRINTS PRIOR TO SUBSTANTIAL COMPLETION.
- EXISTING CONDITIONS ARE BASED ON LIMITED AVAILABLE RECORD DRAWINGS AND SITE INVESTIGATION. CONTRACTOR TO FIELD VERIFY ALL APPLICABLE EXISTING CONDITIONS PRIOR TO DEMOLITION.

- WHERE TEMPORARY REMOVAL OF WORK IS REQUIRED TO ACCOMMODATE WORK OF THIS OR OTHER TRADES, REMOVE AND STORE ELECTRICAL/TECHNOLOGY ITEMS IN THE PATH OF WORK. REINSTALL AND RECONNECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND/OR AS DIRECTED AFTER COMPLETION OF THE WORK IN THE AREA. PROVIDE TEMPORARY SERVICES SUCH AS EGRESS LIGHTING AND EXIT SIGNAGE AND ASSOCIATED CIRCUITRY TO AN UNAFFECTED APPROPRIATE POWER SOURCE WHERE THE WORK AREA MUST BE MAINTAINED OPEN FOR EGRESS.
- WHERE CEILING ARE REMOVED TEMPORARILY FOR ABOVE-CEILING WORK, REMOVE/STORE OR TEMPORARILY SUPPORT CEILING-MOUNTED DEVICES/EQUIPMENT IN PLACE, REINSTALL AND RECONNECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND/OR AS DIRECTED AFTER COMPLETION OF THE WORK IN THE AREA.
- REMOVE EACH EQUIPMENT ITEM, DEVICES, AND FIXTURES INDICATED ON DEMOLITION PLANS. REMOVE ALL ASSOCIATED CIRCUITRY BACK TO THE PROTECTIVE DEVICE IN THE PANEL, SWITCHBOARD, OR CONTROLLER, EXCEPT AS OTHERWISE INDICATED. REMOVE ALL SIGNAL CABLING BACK TO THE SOURCE EQUIPMENT, RACK OR BACKBOARD.
 - ASSOCIATED CIRCUITRY IS DEFINED TO INCLUDE ALL RACEWAYS, CONDUCTORS, BOXES, WIRING DEVICES, WALL PLATES, LAMPS, FIXTURES, SWITCHES, STARTERS, SUPPORTS, ETC. WHICH ARE ASSOCIATED WITH THE ITEM TO BE REMOVED.
 - THE PROTECTIVE DEVICE REMAINS AS AN INTEGRAL PART OF THE EXISTING PANEL OR SWITCHBOARD. LABEL AS SPARE OR USE FOR NEW CIRCUITS AS INDICATED.
 - TECHNOLOGY HEADEND EQUIPMENT TO REMAINS IN SERVICE UNLESS INDICATED FOR DEMOLITION.
- WHERE CONDUIT ASSOCIATED WITH AN ITEM TO BE REMOVED IS IN AN INACCESSIBLE AREA SUCH AS WHERE ENCASED IN CONCRETE, ABANDON ONLY THE INACCESSIBLE CONDUIT IN PLACE, UNLESS INDICATED TO BE REUSED. REMOVE ALL CONDUCTORS AND CUT CONDUIT OFF FLUSH, THEN SEAL OR CAP.
- WHERE SUCH INACCESSIBLE CONDUIT ENDS OR MUST BE TERMINATED IN FINISHED SPACE, REMOVE THE CONDUIT OR BOX TO BELOW THE FINISHED SURFACE OF WALL, CEILING OR FLOOR, FILL VOID WITH NON-SHRINKING GROUT AND FINISH TO MATCH SURROUNDING SURFACES.
- WHERE A PORTION OF A CIRCUIT'S LOAD IS SCHEDULED TO BE REMOVED, REMOVE ONLY THAT PORTION ASSOCIATED WITH THE DEMOLISHED DEVICE TO A POINT WHERE THE REMAINING LOAD IS ACTIVE, MAINTAIN IN A GOOD OPERATING CONDITION.
- WHERE EXTENSION OF AN EXISTING CIRCUIT IS REQUIRED TO MAINTAIN SERVICE, RUN CONDUIT AND WIRE AS INDICATED FROM THE CIRCUIT'S EXISTING LOCATION TO ITS NEW LOCATION.
- WHERE AN ITEM OF EQUIPMENT IS INDICATED TO BE REMOVED AND RELOCATED, REMOVE ANY CIRCUITRY, SWITCHES, DEVICES, ETC. ASSOCIATED WITH THE EQUIPMENT. RELOCATE THE EQUIPMENT TO THE NEW LOCATION AND PROVIDE CONNECTION OF ALL ASSOCIATED ITEMS TO NEW OR EXTENDED CIRCUITRY AS INDICATED.

ELECTRICAL ABBREVIATIONS

ELECTRICAL ABBREVIATIONS	
ABBREVIATION	DEFINITION
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED
AF	AMPERE FRAME OR AMPERE FUSE
AFD	ADJUSTABLE FREQUENCY MOTOR DRIVE UNIT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AS	AMPERE SWITCH
AT	AMPERE TRIP OR AIR TERMINAL
AWG	AMERICAN WIRE GAUGE
B, CB, CKT BKR	CIRCUIT BREAKER
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISHED GRADE
BMGB	MAIN BUILDING GROUND BUSBAR
C	CONDUIT
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
COMM	COMMUNICATIONS
DDC	DIRECT DIGITAL CONTROLS
DISC SW	DISCONNECT SWITCH
DS	DISCONNECT SWITCH OR DISTRIBUTION SECTION
E OR EXIST.	EXISTING
EGB	EQUIPMENT GROUND BUSBAR
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
FTL	FEED THRU LUGS
FUS	FUSE
FNVR	FULL VOLTAGE NON-REVERSING
G	GROUND
GF, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFCL (OFCL)	GOVERNMENT (OWNER) FURNISHED CONTRACTOR INSTALLED
GFGL (OFOI)	GOVERNMENT (OWNER) FURNISHED GOVERNMENT (OWNER) INSTALLED
GP	GENERAL PURPOSE
HP	HORSE POWER
J, JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LAN	LOCAL AREA NETWORK
LED	LIGHT EMITTING DIODE
LPS	LIGHTNING PROTECTION SYSTEM
M	MAIN OR METER
MB, MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MS	MAGNETIC STARTER
MSWB	MAIN SWITCHBOARD
MTD	MOUNTED
MTR	METER
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NETA	NATIONAL ELECTRICAL TESTING ASSOCIATION
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
O.C.	ON CENTER
OS	OCCUPANCY SENSOR
P	POLE OR PRIMARY
PBD	PANELBOARD
PC	PHOTOELECTRIC CELL
PH	PHASE
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	RELOCATE
RCPT OR RECEPT	RECEPTACLE
S	SECONDARY OR SURFACE WALL MOUNTED
SC	SHORT CIRCUIT
SCC	SHORT CIRCUIT CURRENT
SPD	TRANSIENT VOLTAGE SURGE PROTECTIVE DEVICE
ST	SHUNT TRIP CIRCUIT BREAKER
SW	SWITCH
SYM	SYMMETRICAL
TMGB	TELECOM MAIN GROUND BUSBAR
TR	COMMUNICATIONS ROOM
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE OR WATT
WP	WEATHERPROOF IN USE
XFMR OR T	TRANSFORMER
XMITR	TRANSMITTER
Y	WYE CONNECTED
YDCT	WYE DELTA CLOSED TRANSITION

KEY PLAN



GRAPHIC SCALE(S)



ORANGE WATER AND SEWER
AUTHORITY (OWASA)
ADMINISTRATION BUILDING
MONUMENTAL STAIR RENOVATION

400 JONES FERRY ROAD CARRBORO, NC 27510

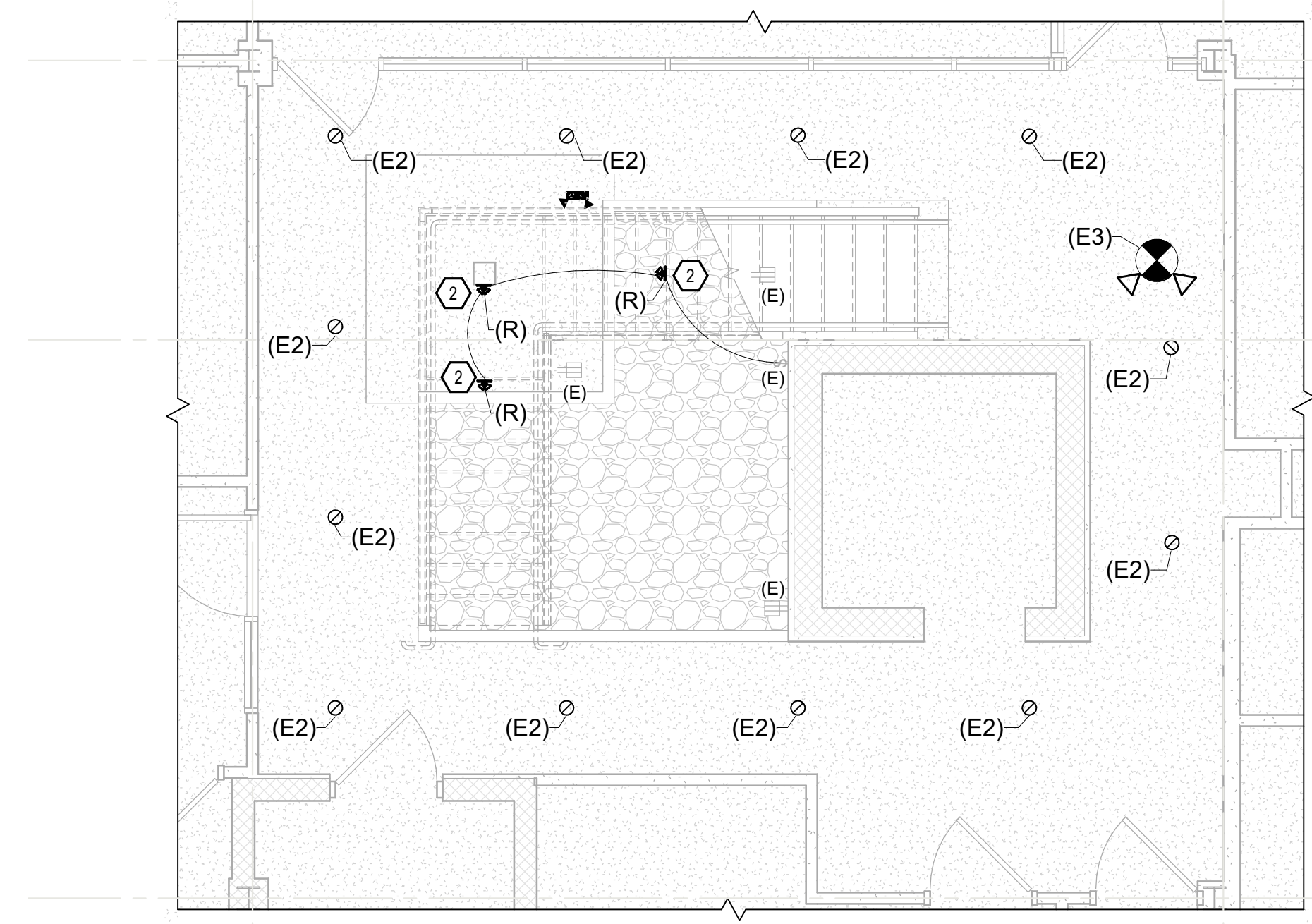
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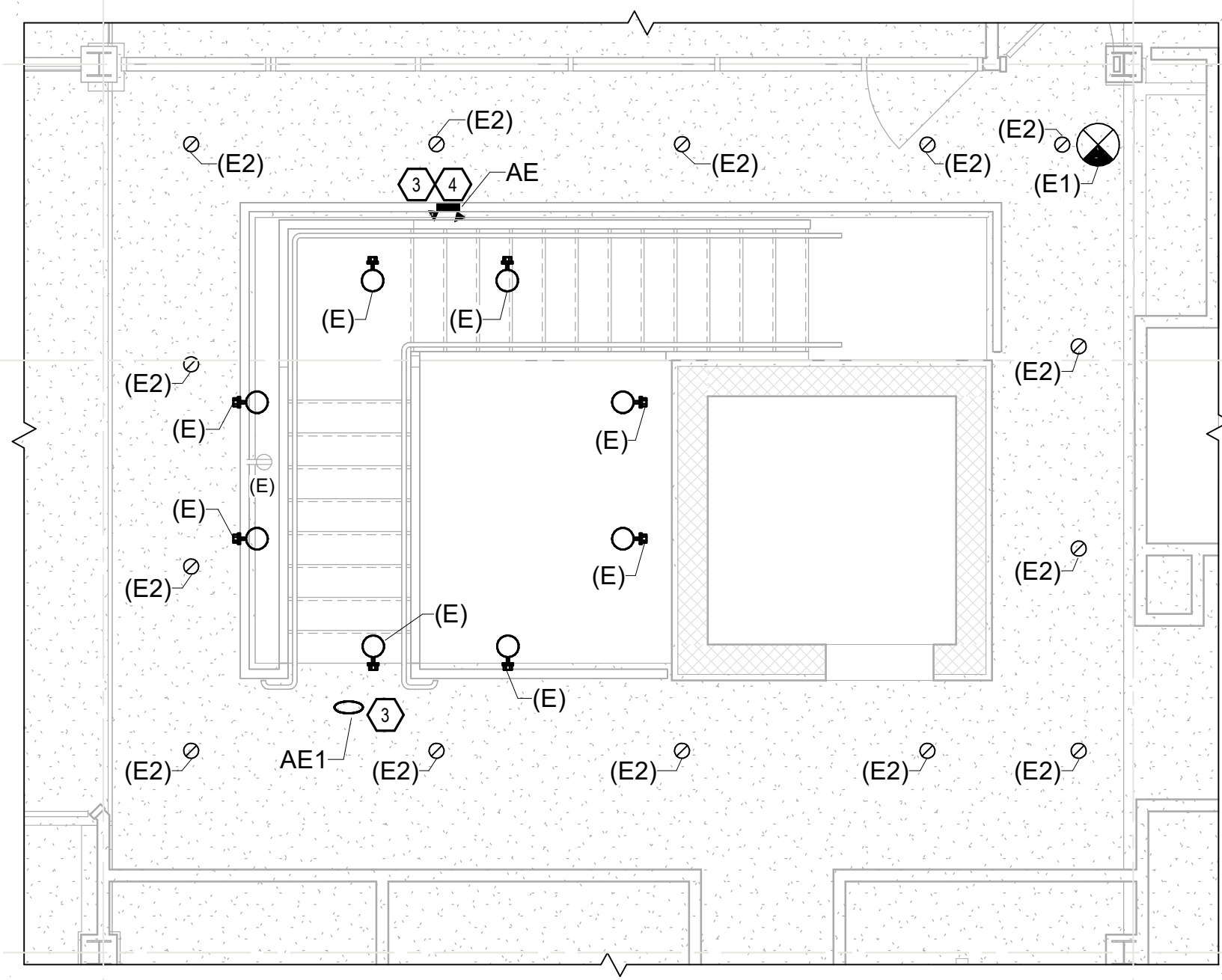
SHEET TITLE	
ELECTRICAL GENERAL NOTES AND ABBREVIATIONS	

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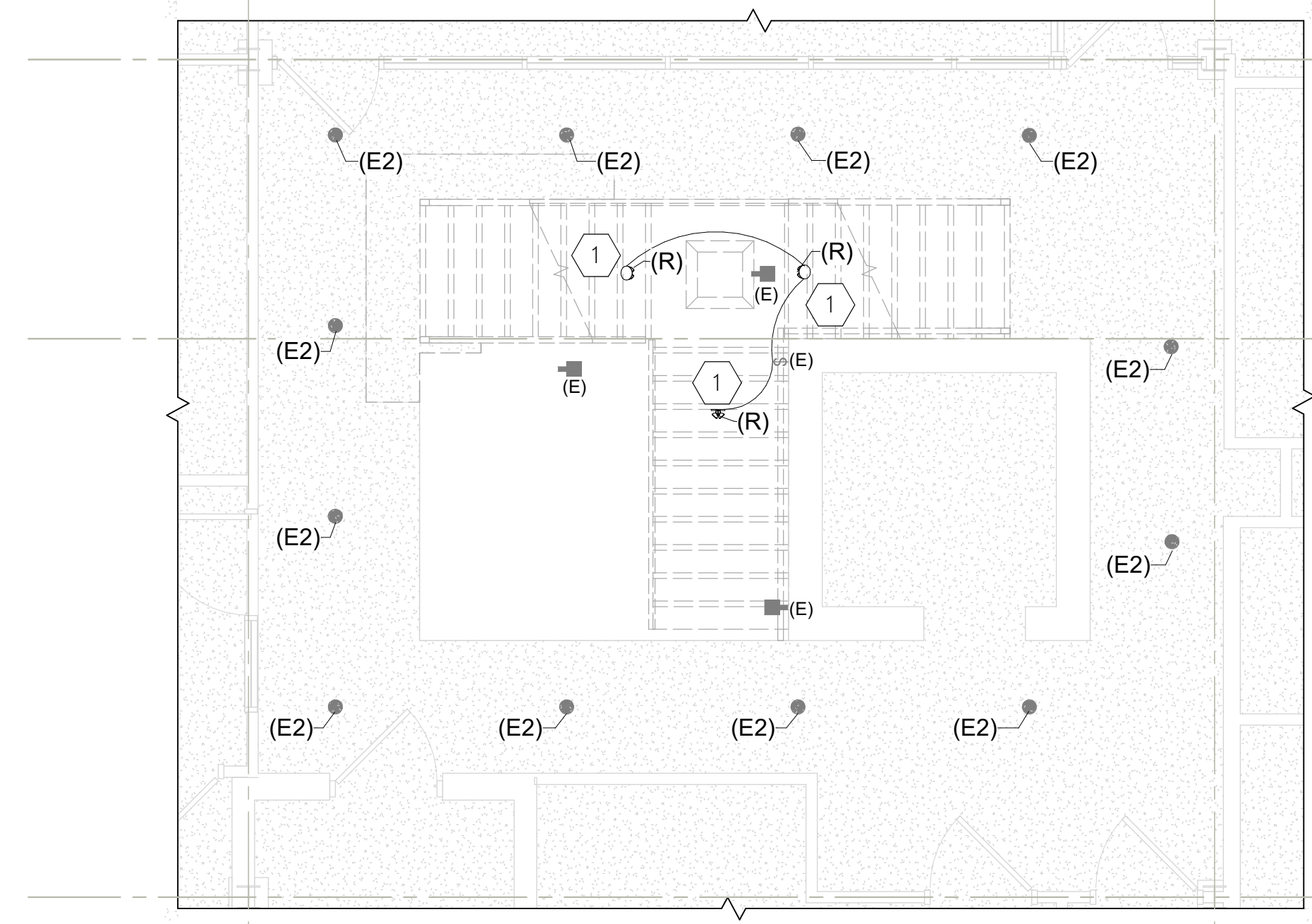
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C1 LOWER LEVEL LIGHTING PLAN
 SCALE: 1/4" = 1'-0"



C3 UPPER LEVEL LIGHTING PLAN
 SCALE: 1/4" = 1'-0"



A1 LOWER LEVEL LIGHTING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

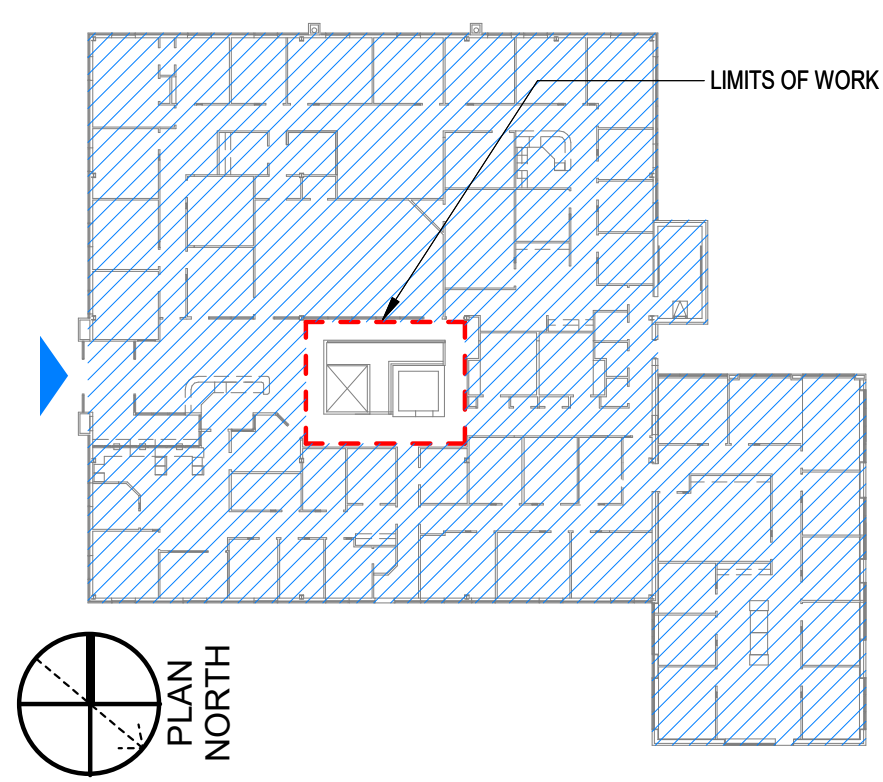
GENERAL SHEET NOTES

- CONTRACTOR TO FIELD VERIFY EXISTING NORMAL LIGHT LEVELS ARE ADEQUATE AS PER APPLICABLE STANDARDS.
- EXISTING CONDITIONS ARE BASED ON LIMITED AVAILABLE RECORD DRAWINGS AND SITE INVESTIGATION. CONTRACTOR TO FIELD VERIFY ALL APPLICABLE EXISTING CONDITIONS PRIOR TO DEMOLITION.
- REFER TO ARCHITECTURE DRAWINGS FOR STAIR DEMOLITION.
- MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING TO REMAIN DEVICES.
- ADJUST HEADS OF TYPE 'AE' AND 'AE1' LUMINAIRES AFTER INSTALLATION TO MAINTAIN NFPA REQUIRED EMERGENCY LIGHTING LEVELS ALONG PATH OF EGRESS. REFER TO ARCHITECTURAL CODE PLAN FOR PATH OF EGRESS.
- UTILIZE 2 #12 CU + 1 #12 CU GROUND IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.

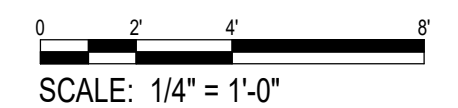
SHEET KEYNOTES

- DISCONNECT EXISTING LUMINAIRES AND STORE FOR REINSTALLATION UNDER NEW SCOPE OF WORK. REMOVE CONDUCTORS AND CONDUIT BACK TO NEXT UPSTREAM JUNCTION BOX OR DEVICE. PROTECT OUTSIDE AREA OF CONSTRUCTION OF RECONNECTION UNDER NEW SCOPE OF WORK.
- EXTEND PROTECTED CIRCUIT FROM DEMO SCOPE OF WORK TO NEW LOCATION SHOWN. COORDINATE EXACT LOCATION OF GROW LIGHTS WITH OWNER PRIOR TO INSTALLATION. SURFACE MOUNT CONDUIT ON UNDERSIDE OF STAIR AND PAINT TO MATCH.
- EXTEND AND CONNECT EXISTING LIGHTING CIRCUIT IN AREA TO NEW LUMINAIRE. CONNECT AHEAD OF ANY LOCAL AND AUTOMATIC LIGHTING CONTROLS. NEW EMERGENCY LIGHTS MUST RECEIVE CONTINUOUS POWER.
- SURFACE MOUNT LUMINAIRE ON SECOND FLOOR SLAB EDGE.

KEY PLAN

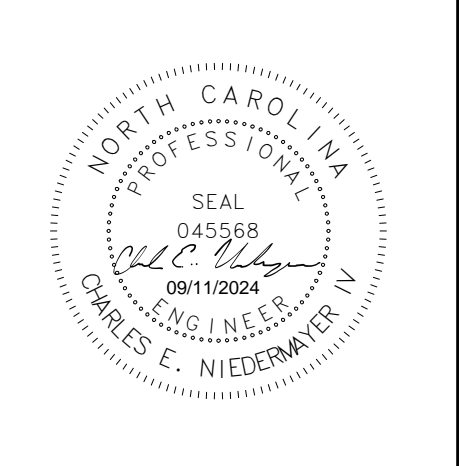


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MRK	DATE	REVISION DESCRIPTION

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DRAWN:	DPO DESIGN: KW
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SHEET TITLE	
ELECTRICAL PLANS	
SHT. NO.	REV. NO.
E-401	