

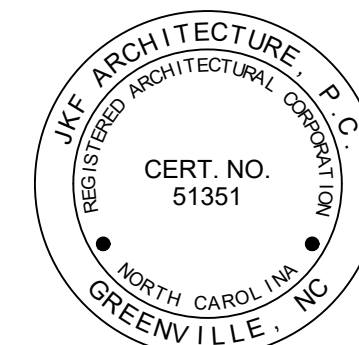
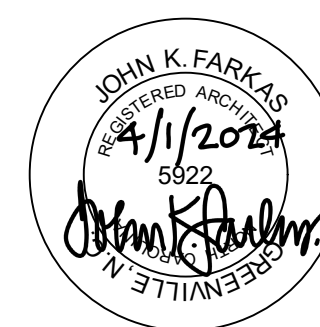
CONSTRUCTION DOCUMENTS
FOR

CITY OF GREENVILLE PUBLIC WORKS SOLID WASTE OFFICE RENOVATION

GREENVILLE, NC
JKF PROJECT #2021-04D

COG ITB NO. 24-25-35

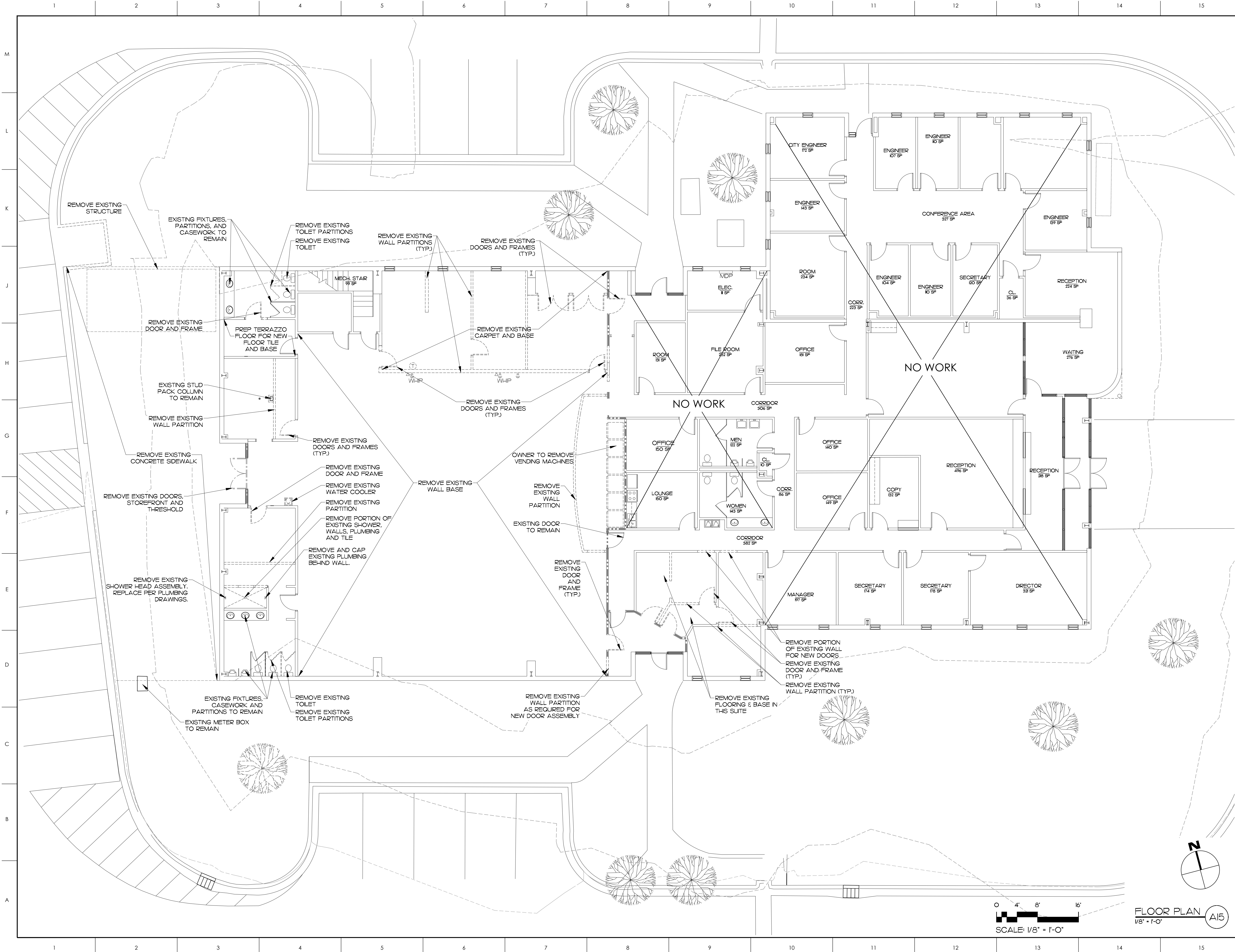
MARCH 1, 2025



ATLANTEC ENGINEERS, PA
PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
919-571-1111

NESER & ROOMSBURG, PA
STRUCTURAL ENGINEERS
748 LORD DUNMORE DRIVE, STE. 101
VIRGINIA BEACH, VA 23464
757-474-0612

[illegible]



MATERIALS KEYING LEGEND

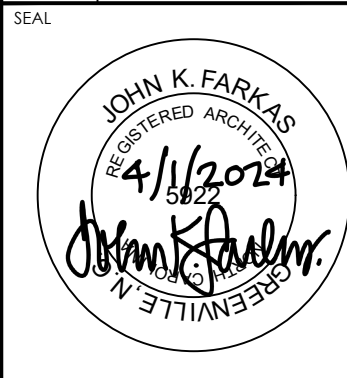
GENERAL NOTES

1. EXISTING CONC. SLAB TO REMAIN. PROTECT AND REPAIR AS REQUIRED FOR NEW FINISHES. INFL. MISC. VOIDS OR DAMAGED AREAS. SEE P.M. & E. DRAWINGS FOR EXTENTS OF UTILITIES DEMOLITION.
2. REPAIR ALL SURFACES TO REMAIN TO MATCH ADJACENT DUE TO DEMOLITION ITEMS.
3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION OR NEW CONSTRUCTION. REPORT ANY DISCREPANCIES TO ARCHITECT.

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE



JKF
ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE

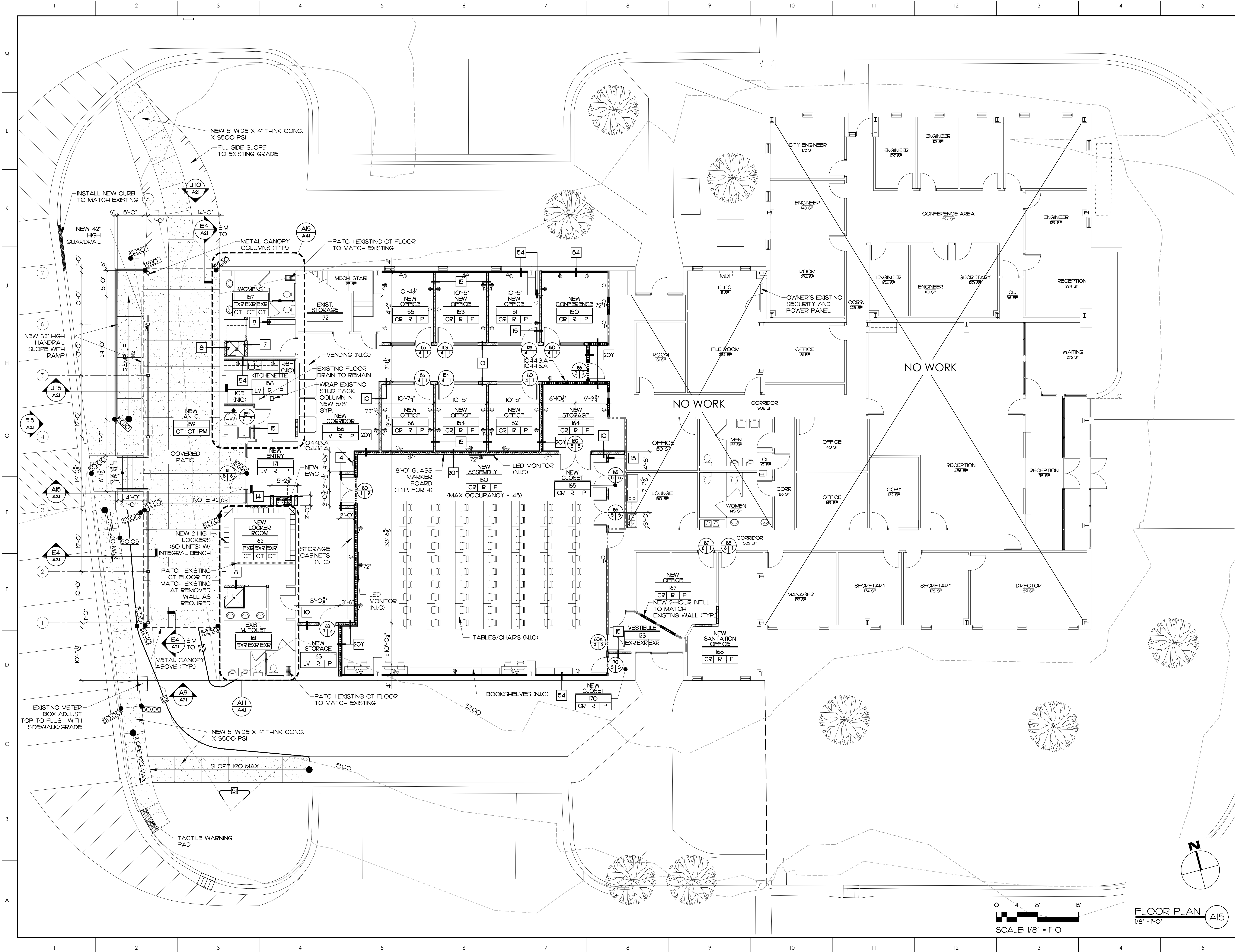
DEMOLITION FLOOR PLAN

SCALE	1/8" = 1'-0"
DRAWN	MBD
CHECKED	JKF
DATE	3-1-2025
PROJECT NO.	2021-04D

DRAWING NO.

AO.1

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MATERIALS KEYING LEGEND

- IO4413.A - SEMI-RECESSED FIRE EXTINGUISHER CABINET
- IO4416.A - FIRE EXTINGUISHER

GENERAL NOTES

- EXISTING 2 HOUR FIRE BARRIER
- NEW 2 HOUR FIRE BARRIER
- REPAIR, REPAINT, REFINISH ALL SURFACES DISTURBED BY DEMOLITION OR NEW CONSTRUCTION
- NEW CARD READER BY OWNER. LOW VOLTAGE WIRE TO DOOR HARDWARE AND CARD READER BACK TO EXISTING ELECTRICAL ROOM SECURITY PANEL.

KEY PLAN

ITB 24-25-35

NO REVISION DATE

JOHN K. FARKAS
LICENSED ARCHITECT
NO. 53922
STATE OF NORTH CAROLINA

JKF

ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

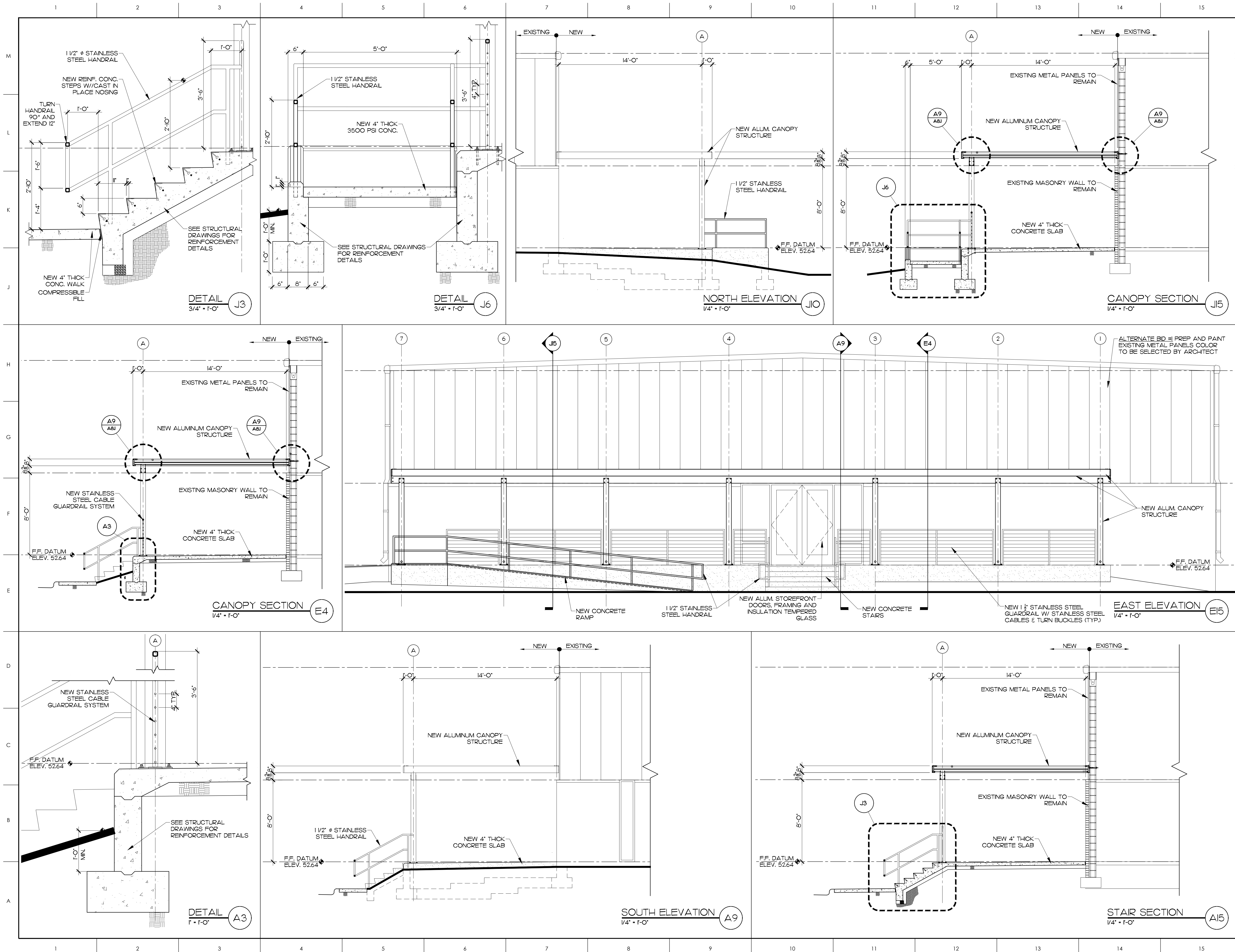
CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE

FLOOR PLAN

SCALE	1/8" = 1'-0"	DRAWING NO.	
DRAWN	MBD		
CHECKED	JKF		
DATE	3-1-2025		
PROJECT NO.	2021-04D		

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MATERIALS KEYING LEGEND

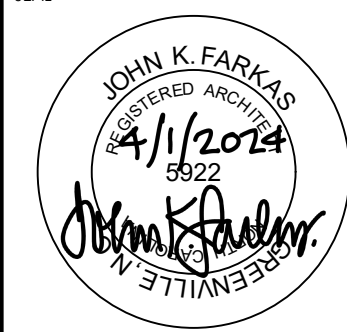
GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR REINFORCING AND DETAILS

KEY PLAN

ITB 24-25-35

NO REVISION DATE



JKF
ARCHITECTURE

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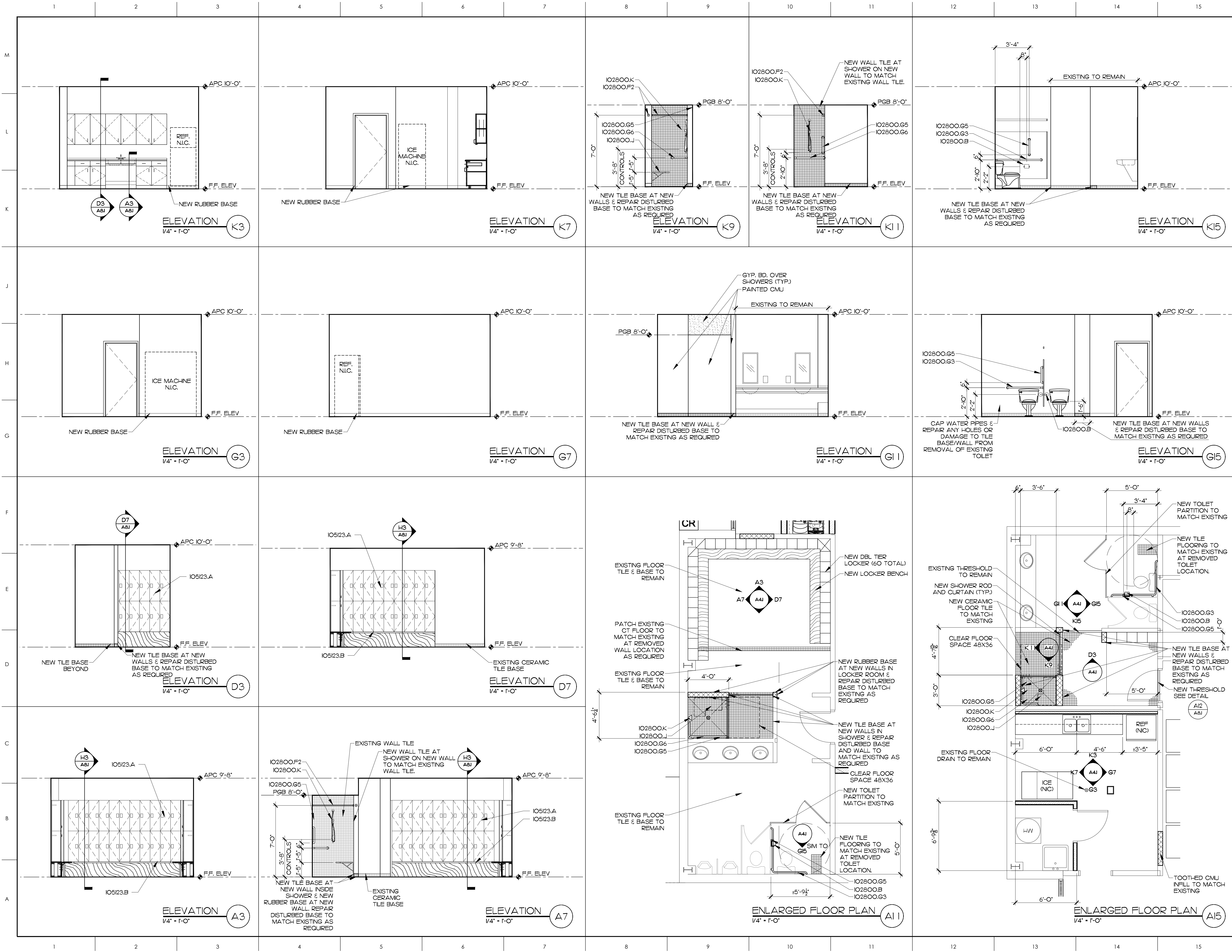
CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE
EXTERIOR ELEVATIONS,
SECTIONS & DETAILS

SCALE
AS NOTED
DRAWN
MBD
CHECKED
JKF
DATE
3-1-2025
PROJECT NO.
2021-4D

DRAWING NO.

A2.1



MATERIALS KEYING LEGEND

- I02800.B - TOILET TISSUE DISPENSER
- I02800.F2 - SHOWER CURTAIN ROD
- I02800.G3 - 42X54 GRAB BAR
- I02800.G5 - 18" VERT. GRAB BAR
- I02800.G6 - 18"X32" GRAB BAR
- I02800.J - FOLDING SHOWER SEAT
- I02800.K - SHOWER HEAD ASSEMBLY W/6" HAND-HELD HEAD
- I05123.A - PLASTIC-LAMINATE-CLAD LOCKERS, 2-TIERED, 6H X 12W
- I05123.B - PLASTIC-LAMINATE-LOCKERS, BENCH

- GENERAL NOTES
- INTERIOR DIMENSIONS ARE TO FACE OF STUD UNO. W/ DOT LEADER (FINISH)
 - CERAMIC TILE WALLS, ALIGN WALL GROUT JOINTS WITH FLOOR GROUT JOINTS (TYP.)

KEY PLAN

ITB 24-25-35

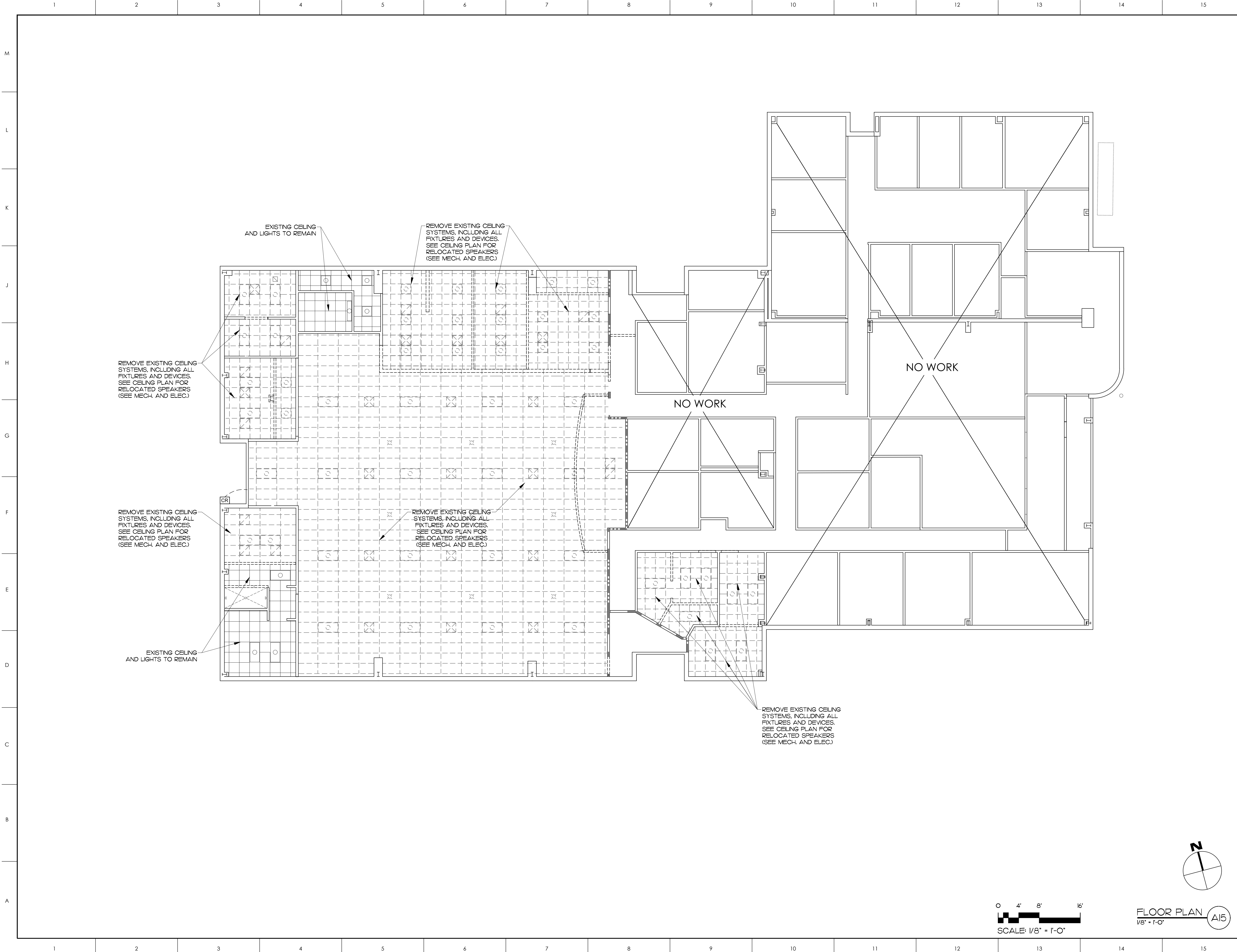
NO REVISION DATE



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CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

ENLARGED PLANS,
INTERIOR ELEVATIONS

SCALE	1/4" = 1'-0"	DRAWING NO.	
DRAWN	JRH		
CHECKED	JKF		
DATE	3-1-2025		
PROJECT NO.	2024-04D		



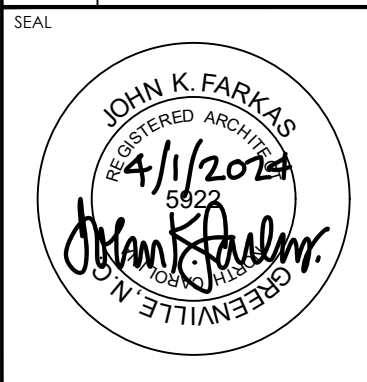
MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE
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JKF
ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

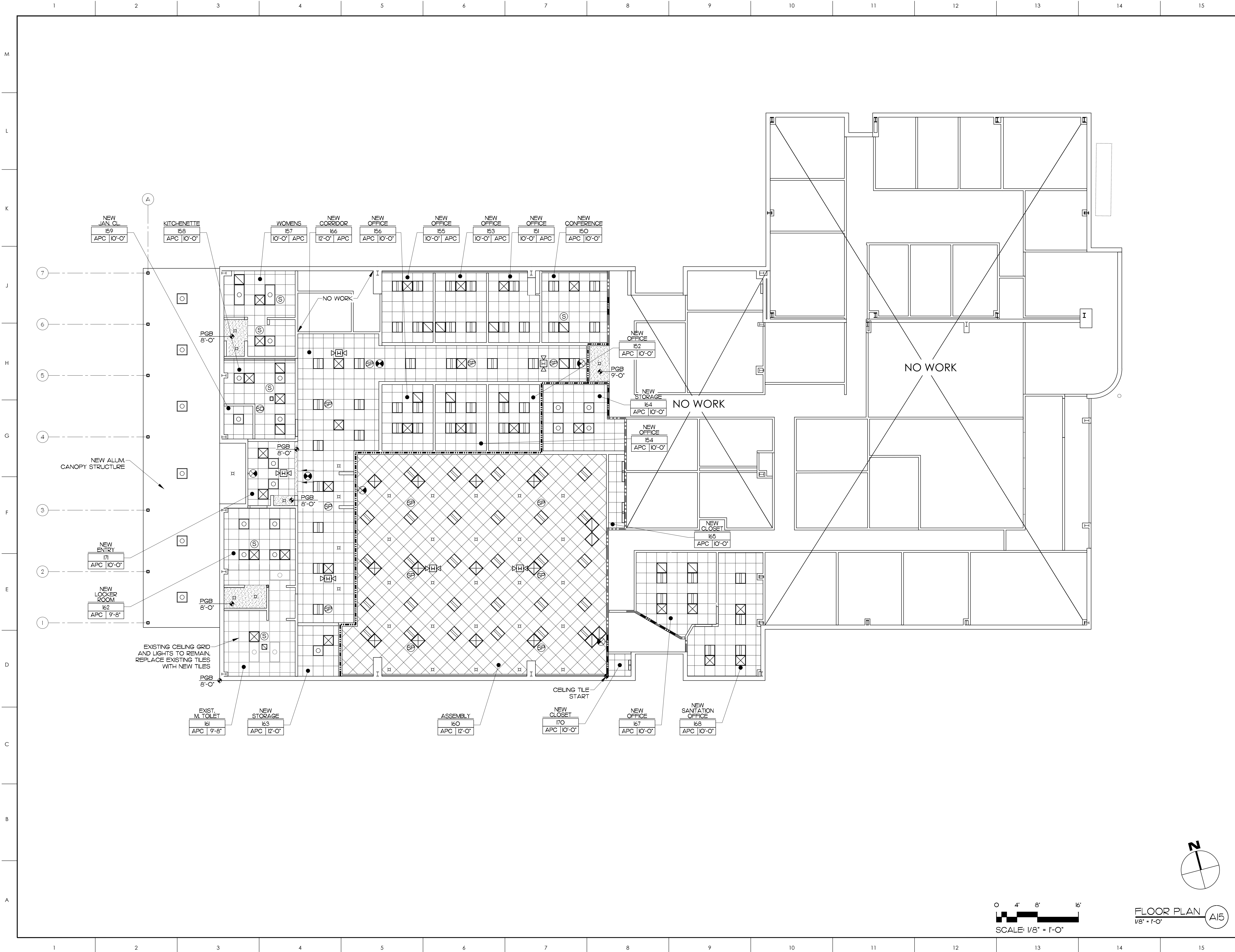
CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE
DEMOLITION REFLECTED
CEILING PLAN

SCALE	1/8" = 1'-0"
DRAWN	MBD
CHECKED	JKF
DATE	3-1-2025
PROJECT NO.	202I-O4D

DRAWING NO.
A5.0

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MATERIALS KEYING LEGEND

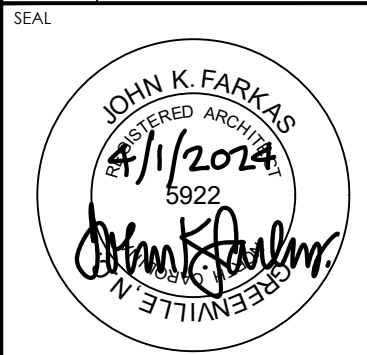
GENERAL NOTES

- EXISTING 2 HOUR FIRE BARRIER
- NEW 2 HOUR FIRE BARRIER

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE



JKF
ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE

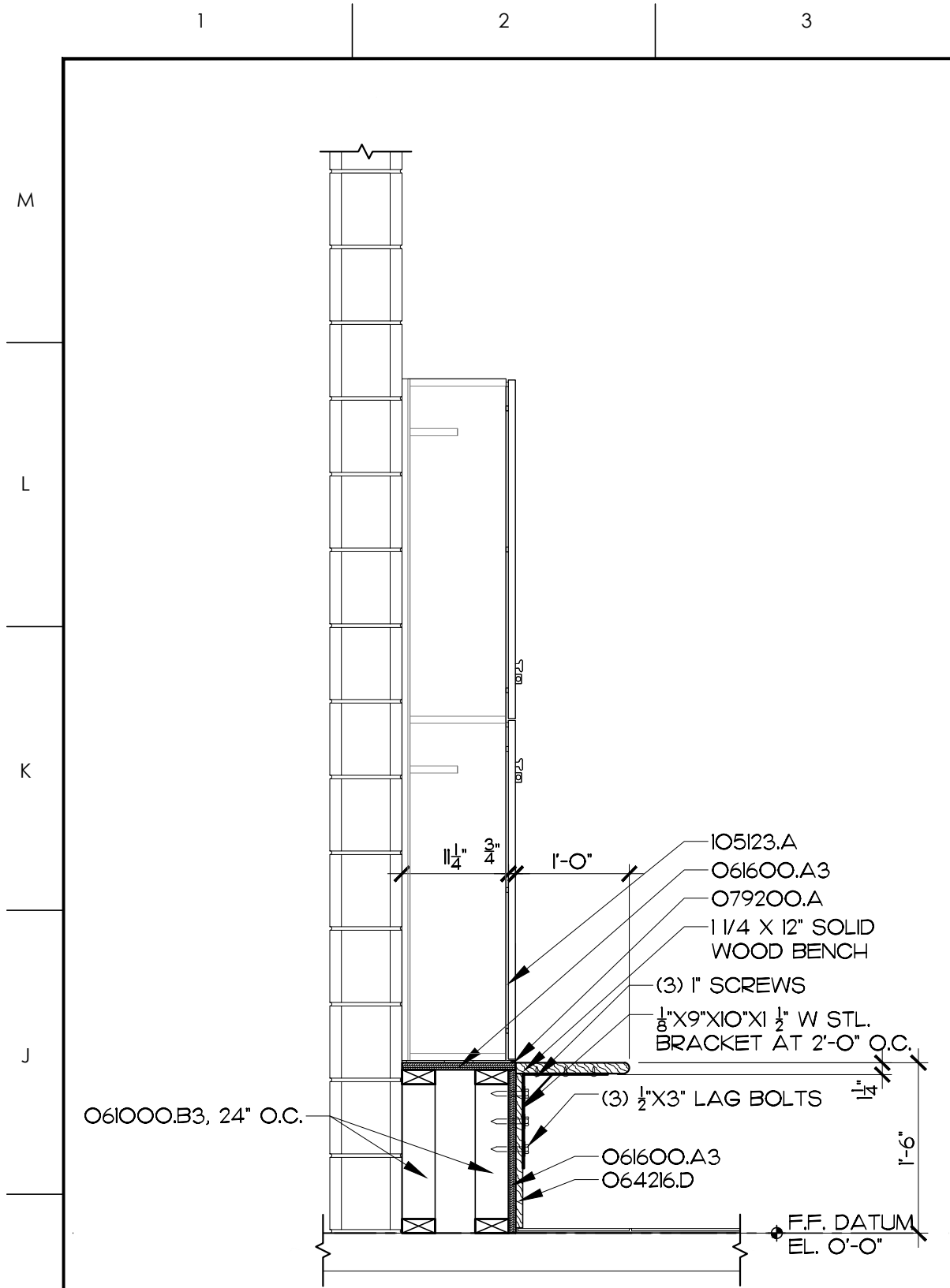
REFLECTED CEILING PLAN

SCALE	1/8" = 1'-0"
DRAWN	MBD
CHECKED	JKF
DATE	3-1-2025
PROJECT NO.	2021-04D

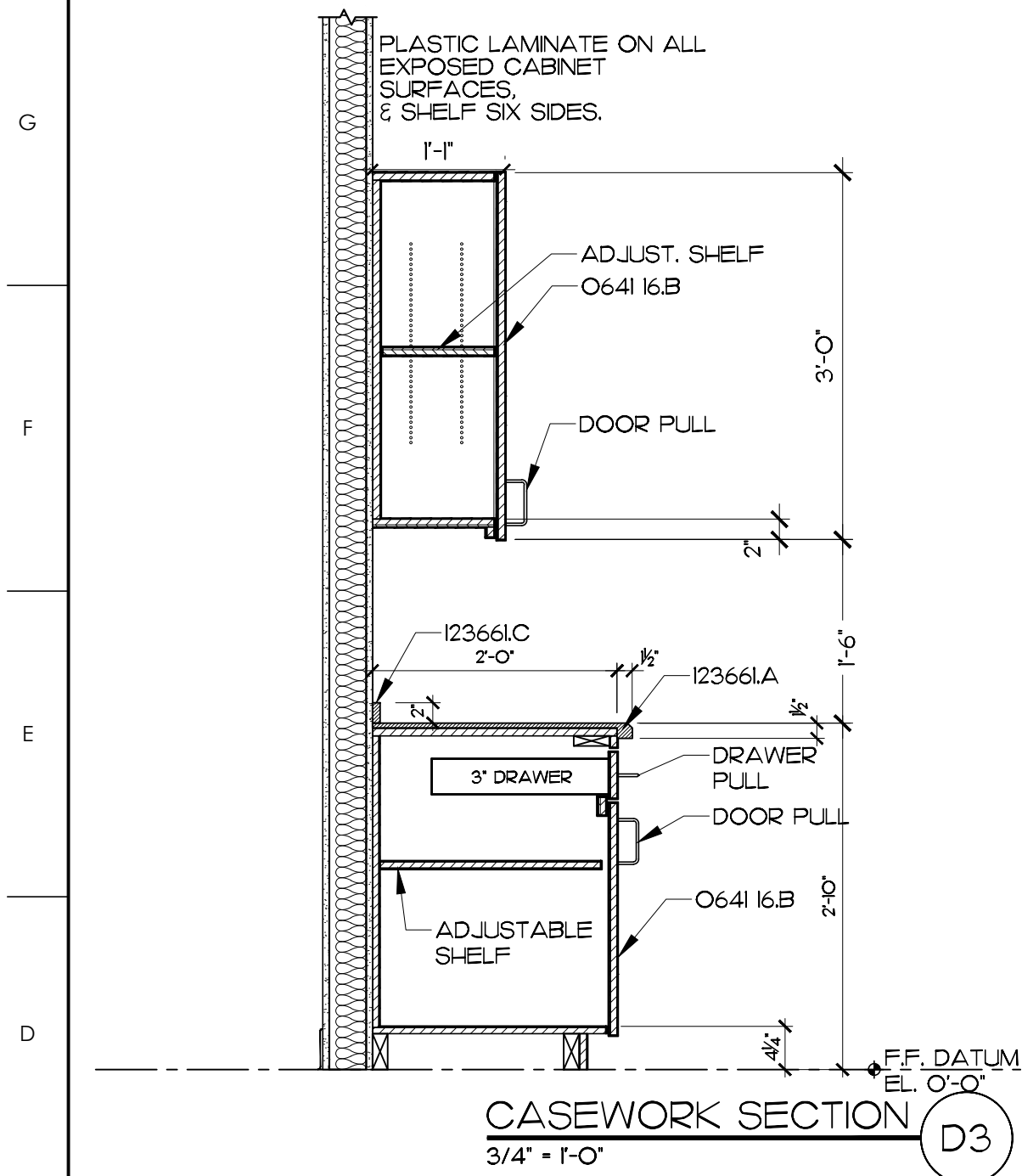
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A5.1

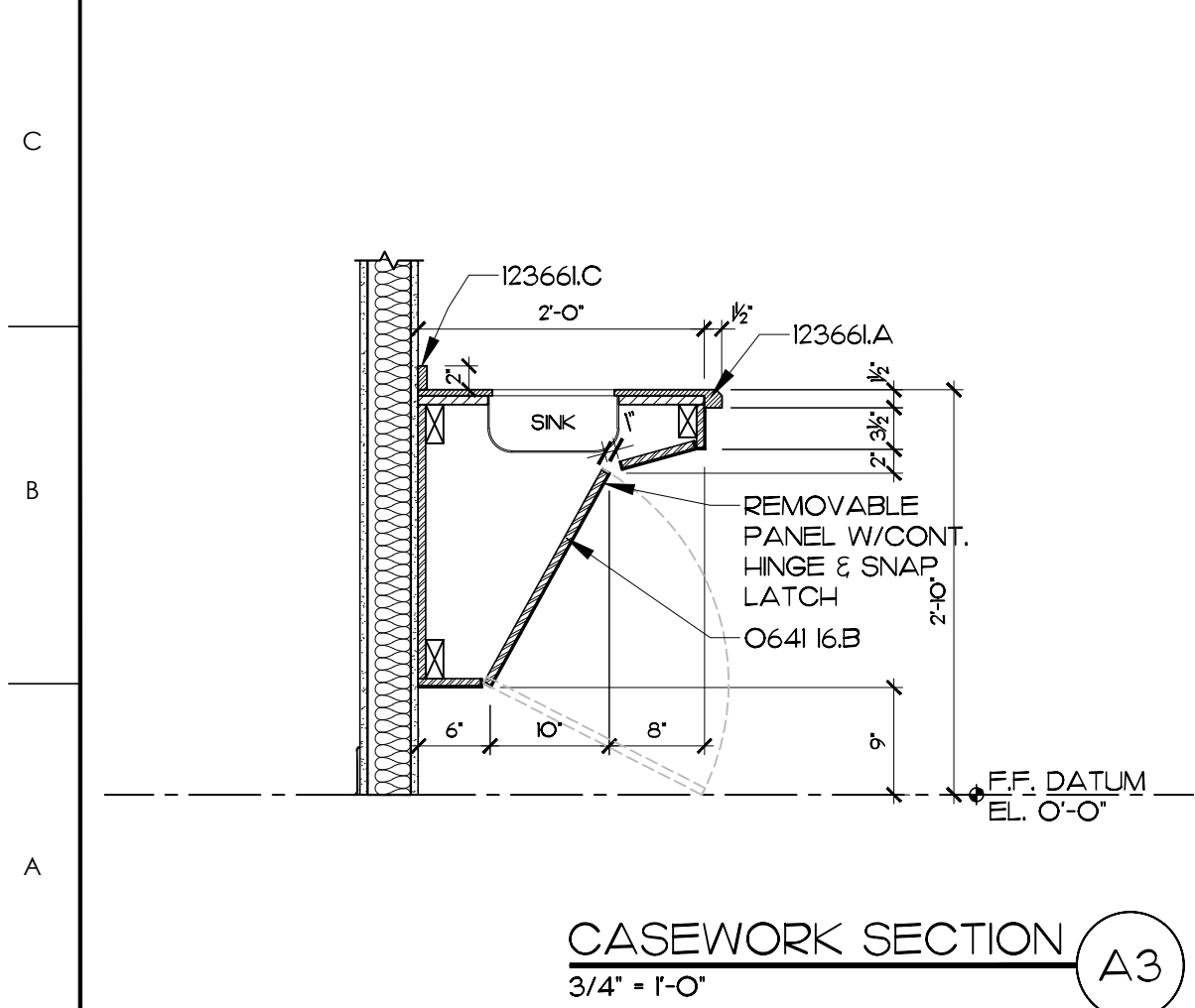
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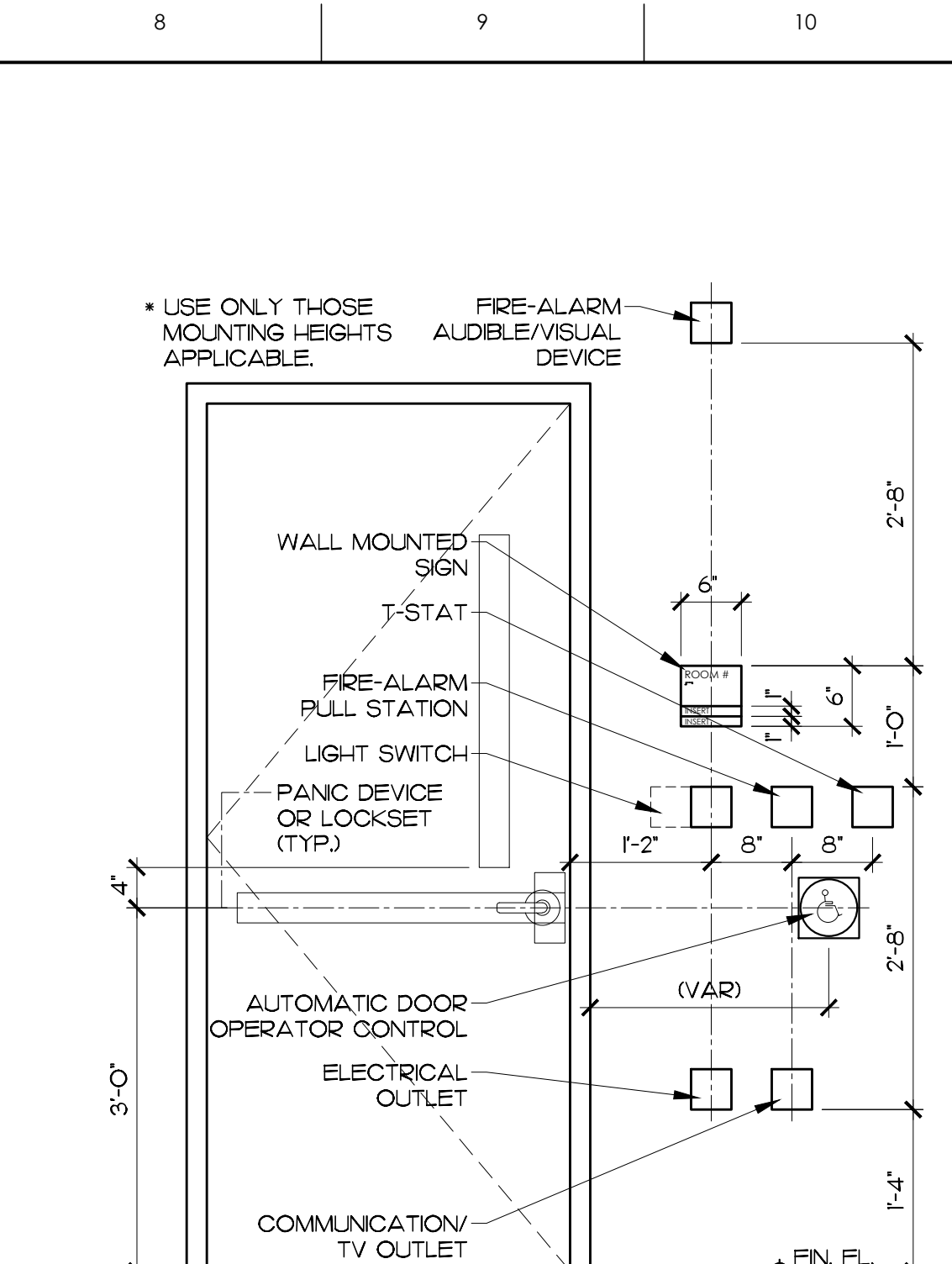
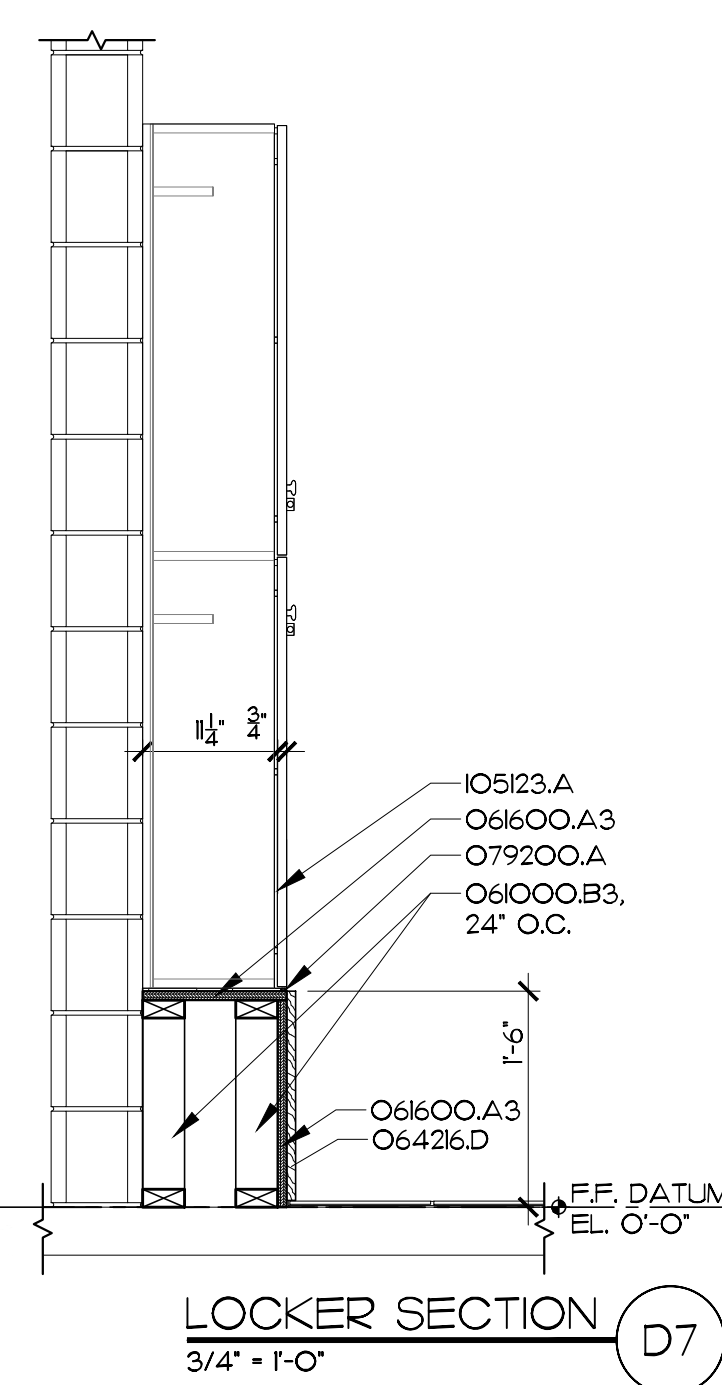
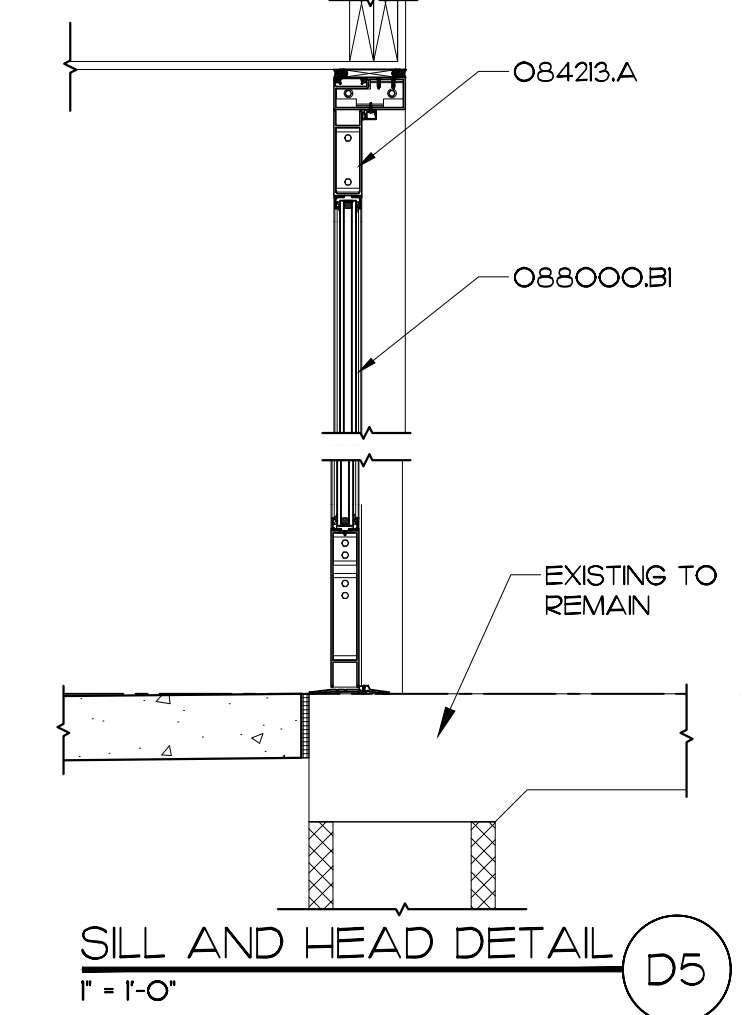
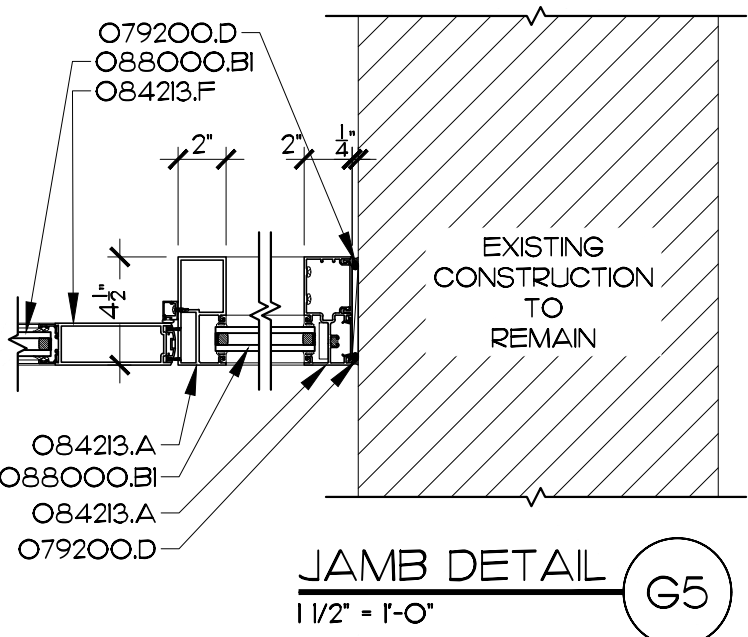
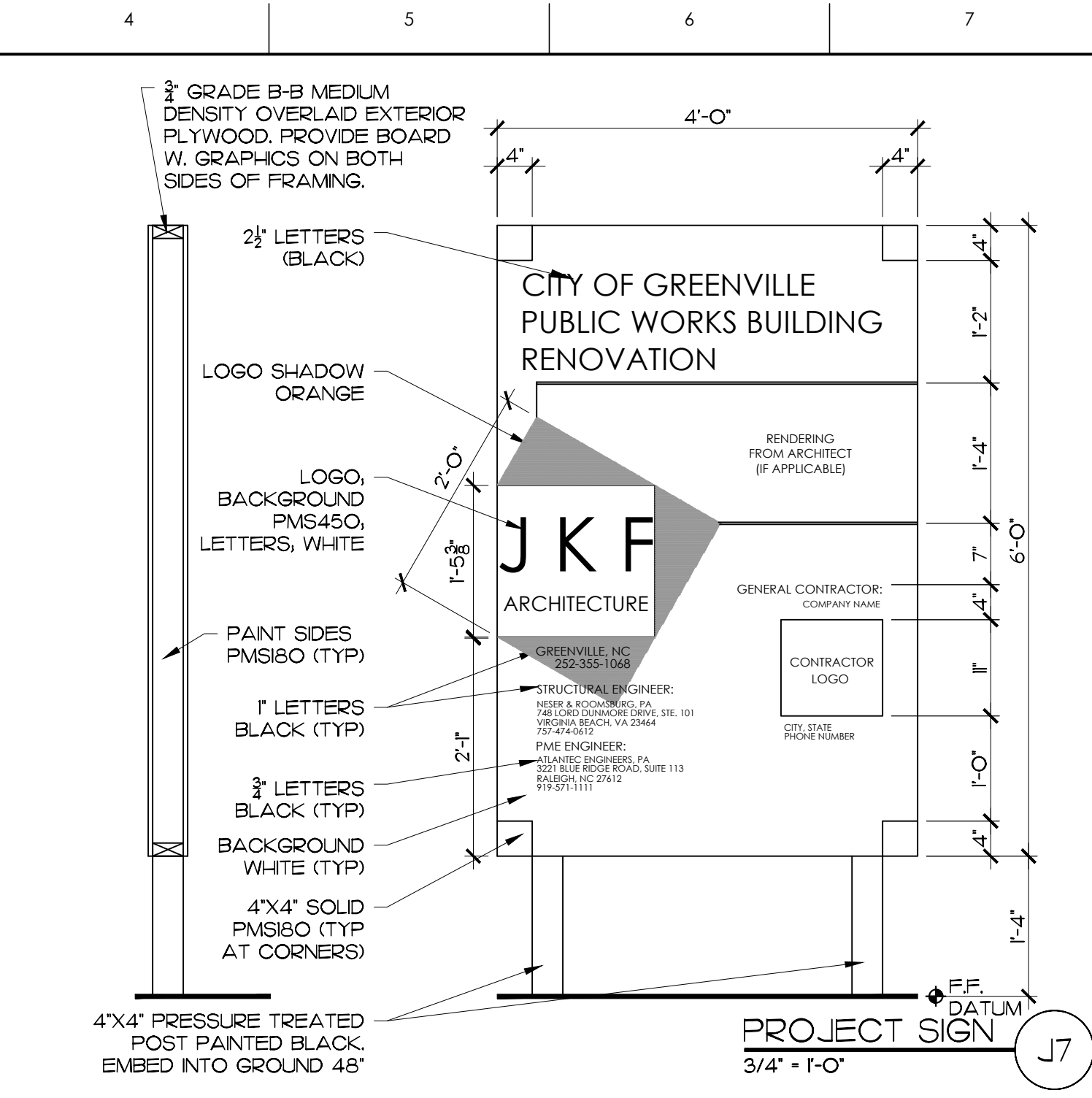
LOCKER SECTION
3/4" = 1'-0" H3



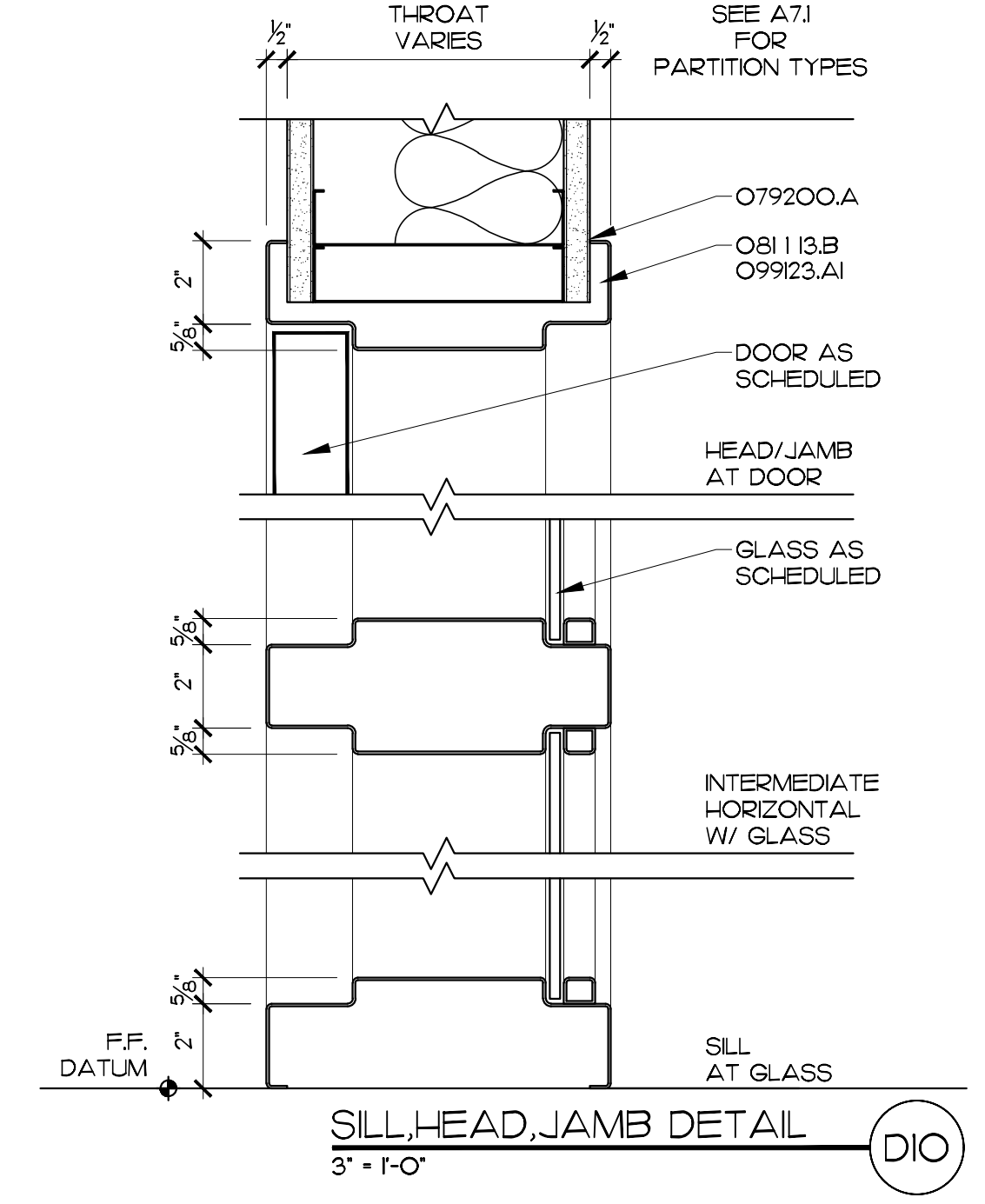
CASEWORK SECTION
3/4" = 1'-0" D3



CASEWORK SECTION
3/4" = 1'-0" A3



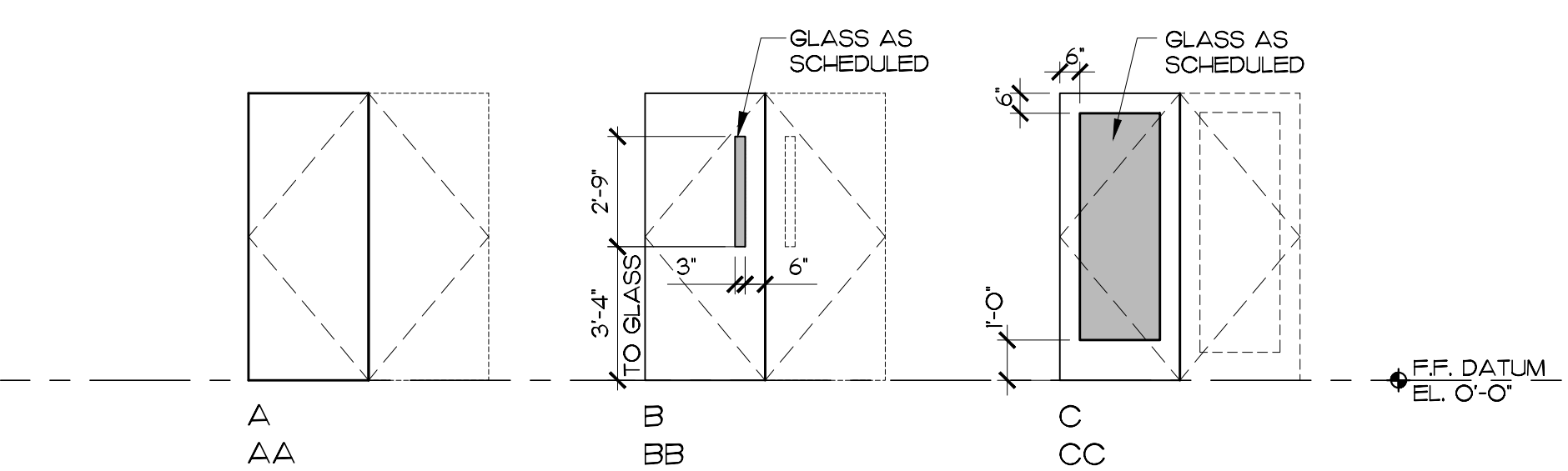
TYP. MOUNTING HEIGHT
3/4" = 1'-0" H10



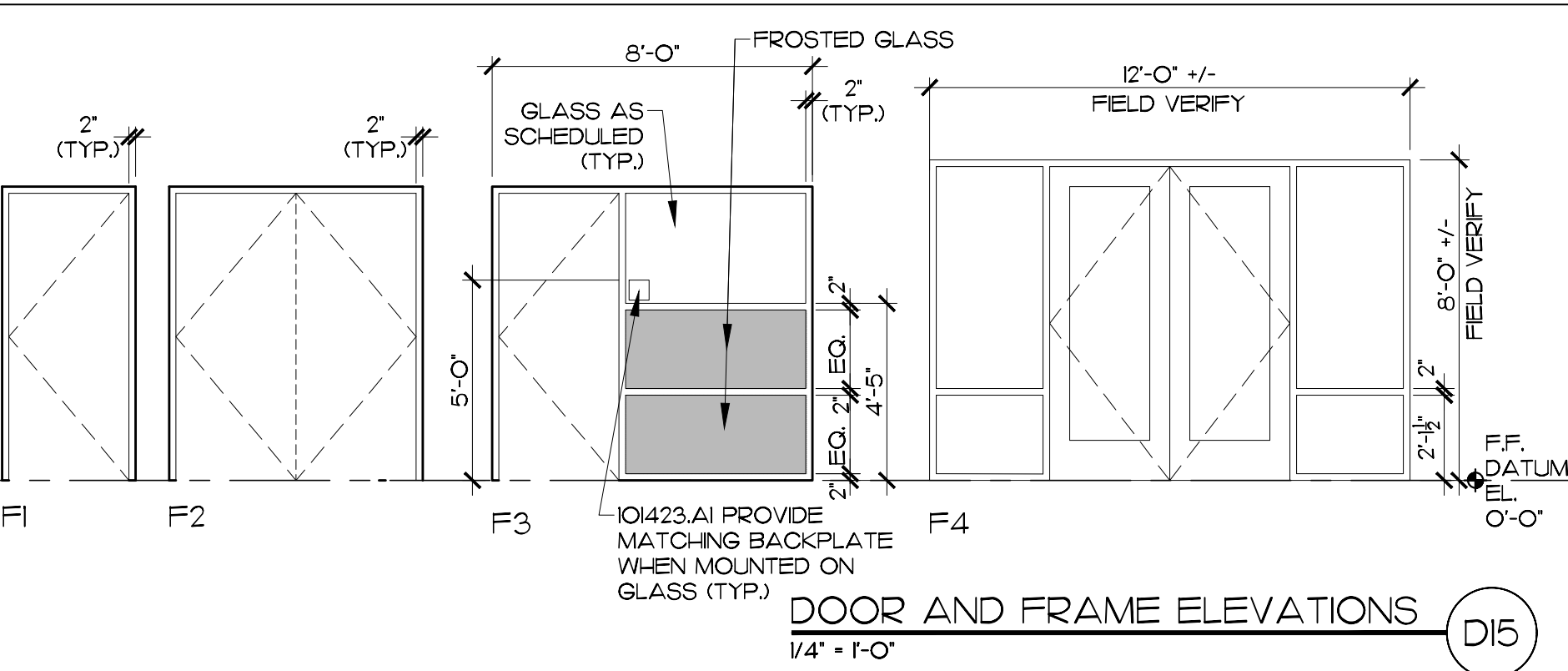
DOOR SCHEDULE

DOOR GROUP NO.	DOOR OPENING SIZE (W X H)	DOOR				FRAME							GLASS	FIRE RATING (HRS)	REMARKS
		DOOR TYPE	THICKNESS (1-3/4" U.N.O.)	MATERIAL	FINISH	FRAME ELEVATION	MATERIAL	FINISH	DETAILS						
									J	H	S				
1	2'3"-0" X 7'-2"	CC	1 3/4"	SWC	TF	F2	HM	P	A15	A15	-	5/16" TEMP. F.R.	90 MIN.	-	
2	3'-0" X 7'-2"	B	1 3/4"	SWC	TF	F1	HM	P	A15	A15	-	5/16" TEMP. F.R.	90 MIN.		
3	3'-0" X 7'-2"	A	1 3/4"	SWC	TF	F1	HM	P	A15	A15	-	-	90 MIN.		
4	3'-0" X 7'-2"	C	1 3/4"	SWC	TF	F3	HM	P	D10	D10	D10	1/4" TEMP.	-		
5	2'3"-0" X 7'-2"	AA	1 3/4"	SWC	TF	F2	HM	P	A15	A15	-	-	-		
6	3'-0" X 7'-2"	C	1 3/4"	SWC	TF	F1	HM	P	A15	A15	-	1/4" TEMP.	-		
7	3'-0" X 7'-2"	A	1 3/4"	SWC	TF	F1	HM	P	A15	A15	-	-	-		
8	2'3"-0" X 7'-10"	CC	1 3/4"	AL	AN	F4	AL	AN	G5	D5	D5	-	-		

DOOR TYPES



FRAME TYPES



DOOR AND FRAME ELEVATIONS
1/4" = 1'-0" D15

MATERIALS KEYING LEGEND	
061000.B3 - 2X4	061600.A3 - PLYWOOD SHEATHING, 5/8" THICK
0641 16.B - PLASTIC LAMINATE, 3/4" THICK	064216.D - 1X WOOD TRIM
079200.A - SEALANT	079200.D - BACKER ROD & SEALANT
081113.B - HOLLOW METAL FRAME	084213.A - STOREFRONT FRAMING, THERMALLY BROKEN
084213.F - ALUMINUM STILE & RAIL DOOR	088000.B1 - 1" INSULATING GLASS-LOW E
093013.B - CERAMIC TILE	093013.F - WATERPROOFING MEMBRANE
099123.A1 - PAINT FINISH, INTERIOR SYSTEM	104213.A1 - PANEL SIGN, 6X6
105123.A - PLASTIC-LAMINATE-GLAD LOCKERS, 2-TIERED, 6H X 12"W	123661.A - SIMULATED STONE COUNTERTOP
123661.C - SIMULATED STONE BACKSPLASH	

GENERAL NOTES

KEY PLAN

ITB 24-25-35

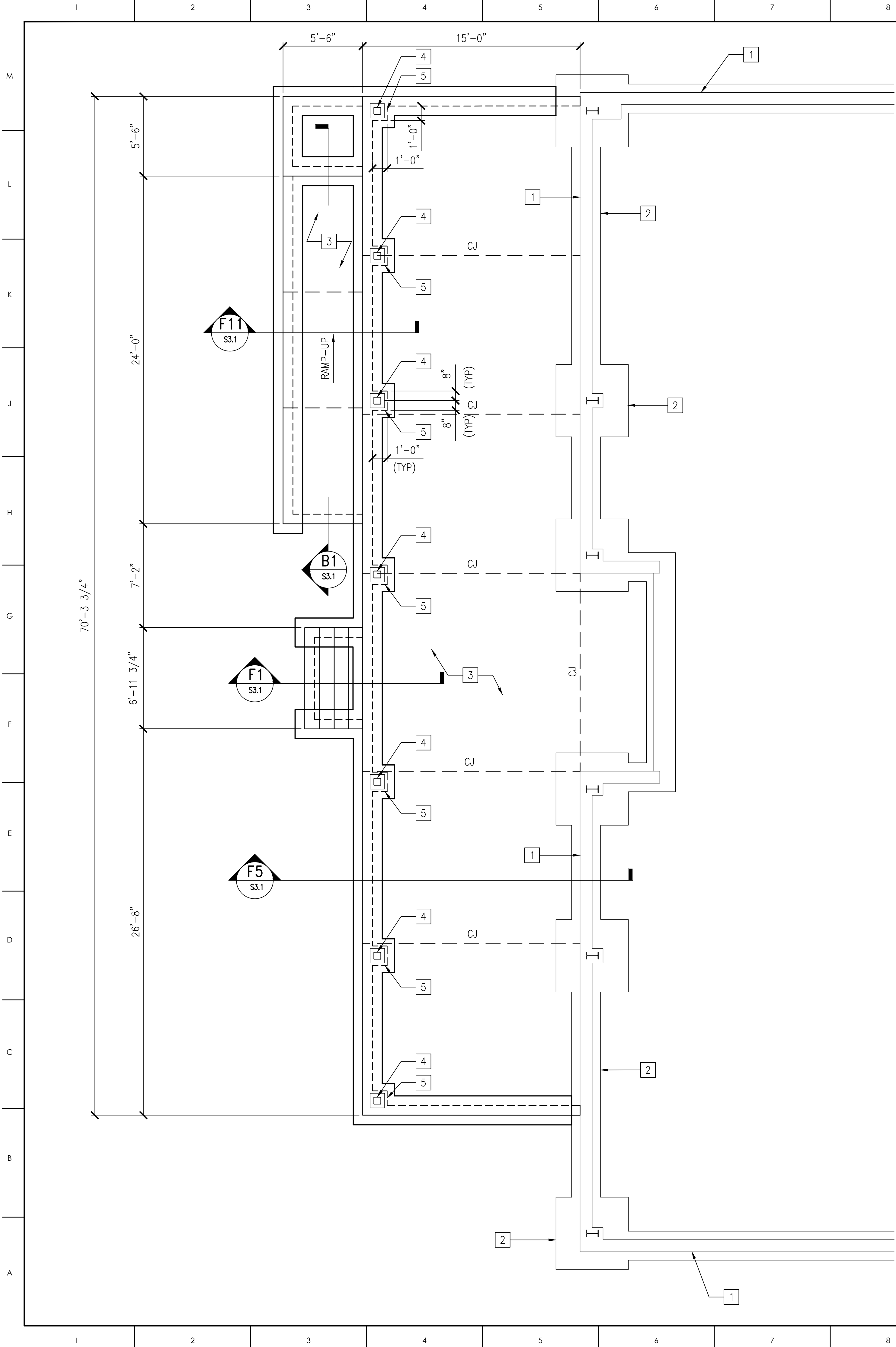
NO REVISION DATE



625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068
CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DOOR SCHEDULE AND DETAILS

SCALE	AS NOTED	DRAWING NO.	
DRAWN	MBD		
CHECKED	JKF		
DATE	3-1-2025		
PROJECT NO.	2021-04D		



PLAN NOTES

- DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FIRST FLOOR = 0'-0". REFER TO ARCHITECTURAL SITE PLAN FOR ACTUAL ELEVATION.
- TOP OF CONCRETE SLAB ELEVATION VARIES. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB ELEVATIONS.
- UNLESS OTHERWISE NOTED, TOP OF ALL WALL FOOTINGS SHALL BE 12" MINIMUM BELOW FINISHED GRADES.
- THE SYMBOL CJ INDICATES SLAB CONTROL JOINT, AND MAY BE A CONSTRUCTION JOINT OR SAWED JOINT. REFER TO TYPICAL SLAB CONTROL JOINT DETAILS ON SHEET S3.1.
- GENERAL NOTES ARE LOCATED ON SHEET S0.1 AND TYPICAL DETAILS ARE LOCATED ON SHEETS S3.1.

KEY PLAN NOTES

- EXISTING MASONRY WALL.
- EXISTING CONCRETE FOOTING.
- 4" CONCRETE SLAB ON GRADE. REINFORCE SLAB WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC LOCATED 1" FROM TOP OF SLAB.
- PREFABRICATED CANOPY COLUMN AND BASE PLATE BY OTHERS.
- PROVIDE CONCRETE PIER AT EACH CANOPY COLUMN. REFER TO DETAIL ON SHEET S-3.1.

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE
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J K F
ARCHITECTURE

623 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

**CITY OF GREENVILLE
PUBLIC WORKS BUILDING
RENOVATION**
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE

PARTIAL FOUNDATION PLAN

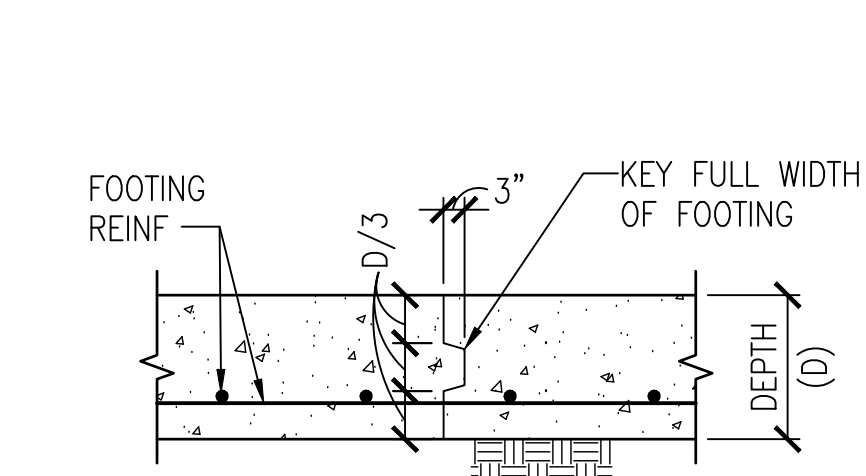
SCALE	DRAWING NO
1/4" = 1'-0"	S1.1
DRAWN: JSS	
CHECKED: KMR	
DATE: 3-1-2025	
PROJECT NO: 2021-04D	

0 2' 4' 8'

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

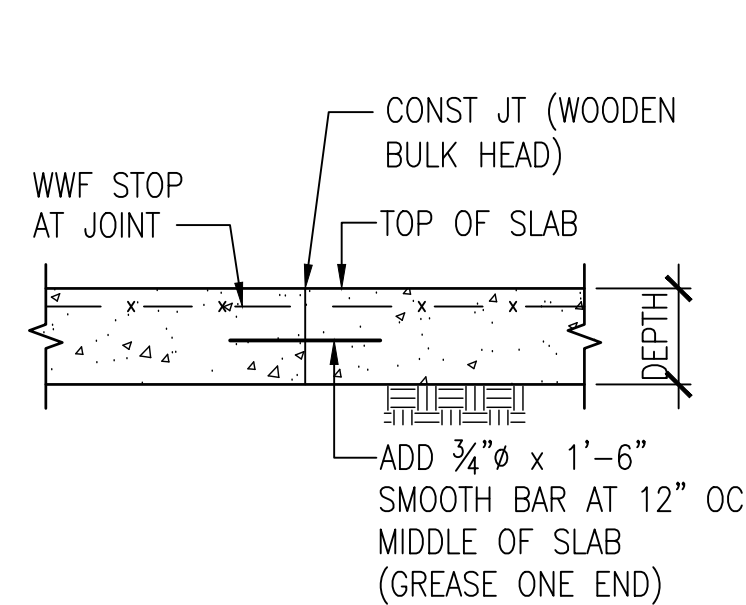
PARTIAL FOUNDATION PLAN
1/4" = 1'-0"

A15



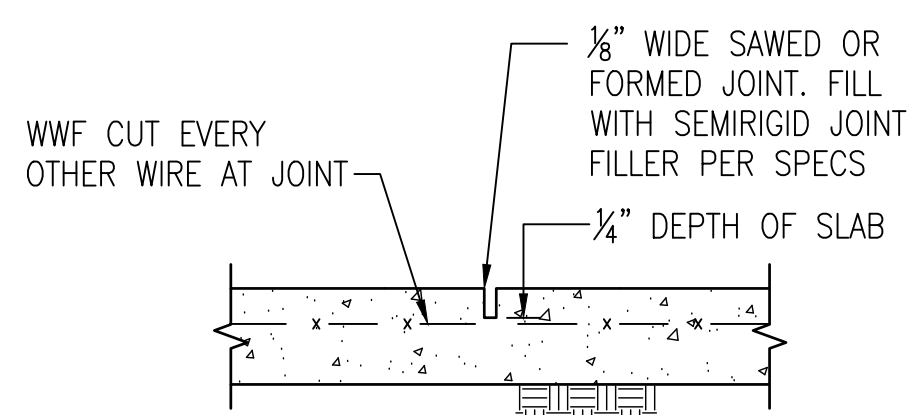
**TYPICAL FOOTING
CONSTRUCTION JOINT DETAIL**

NOT TO SCALE

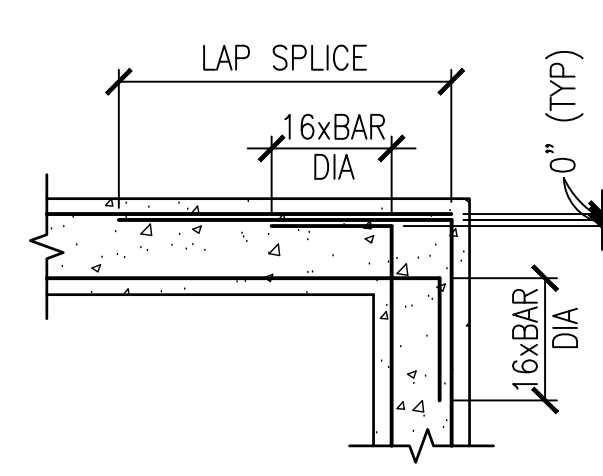


CONSTRUCTION JOINT
SAWED JOINT

TYPICAL SLAB CONTROL JOINT DETAILS
 NOT TO SCALE

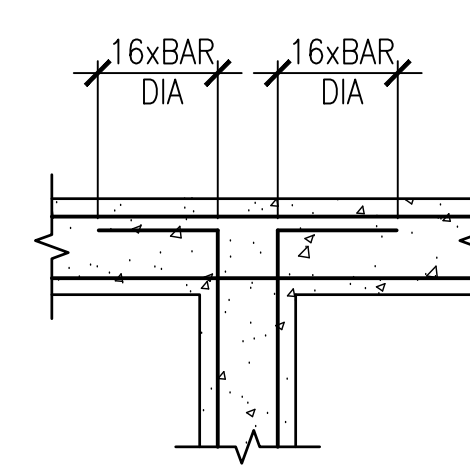


SAWED JOINT

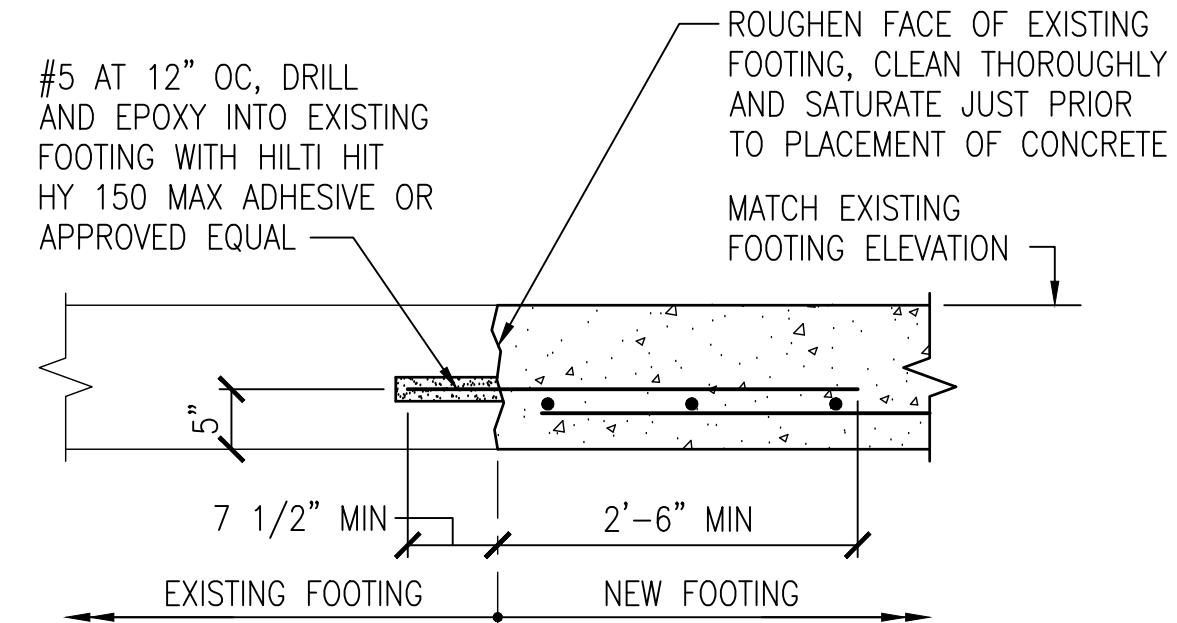


**TYPICAL DETAIL SHOWING CONTINUOUS
REINFORCING AT CORNERS AND INTERSECTIONS**

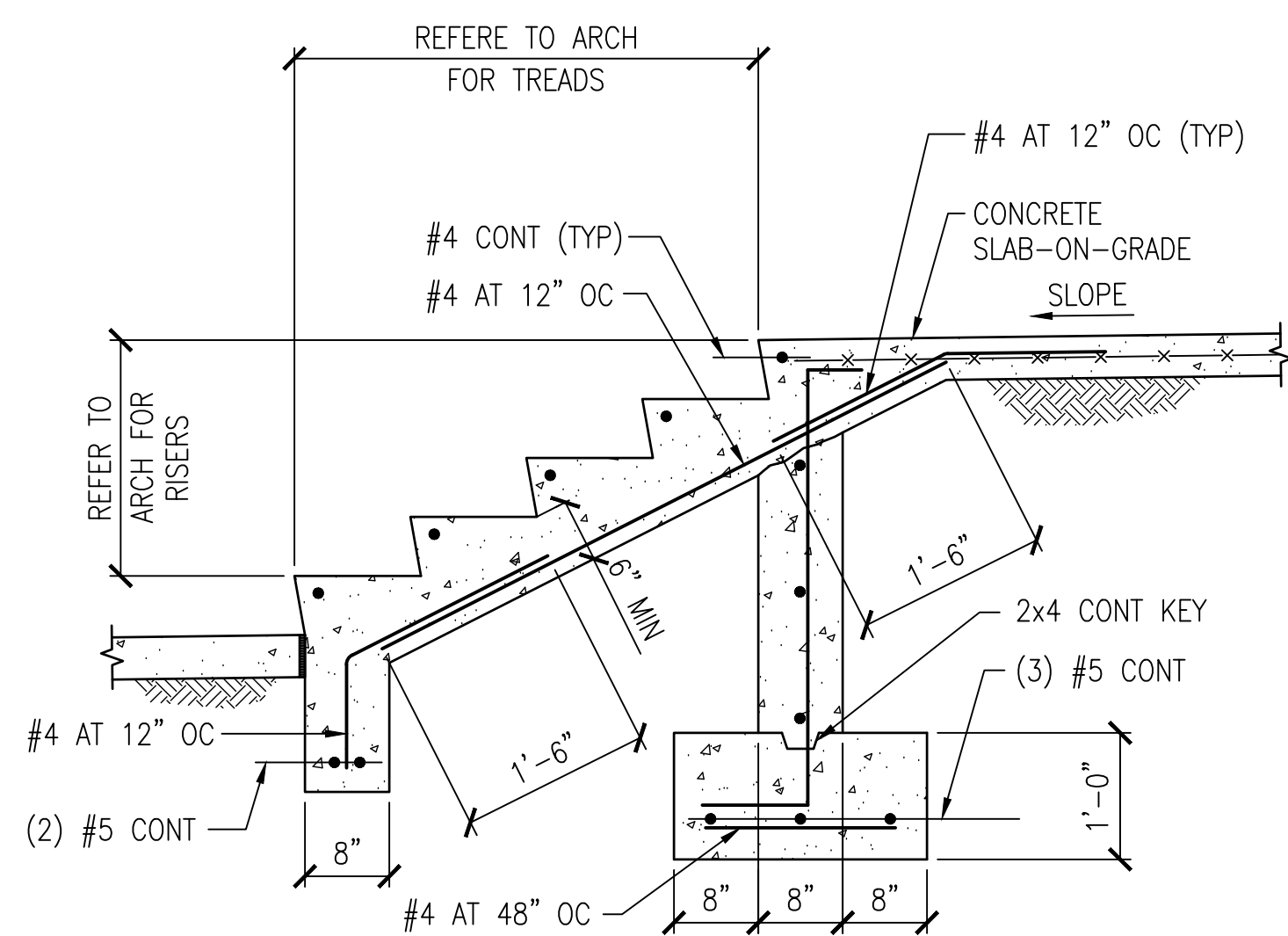
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INTERSECTION

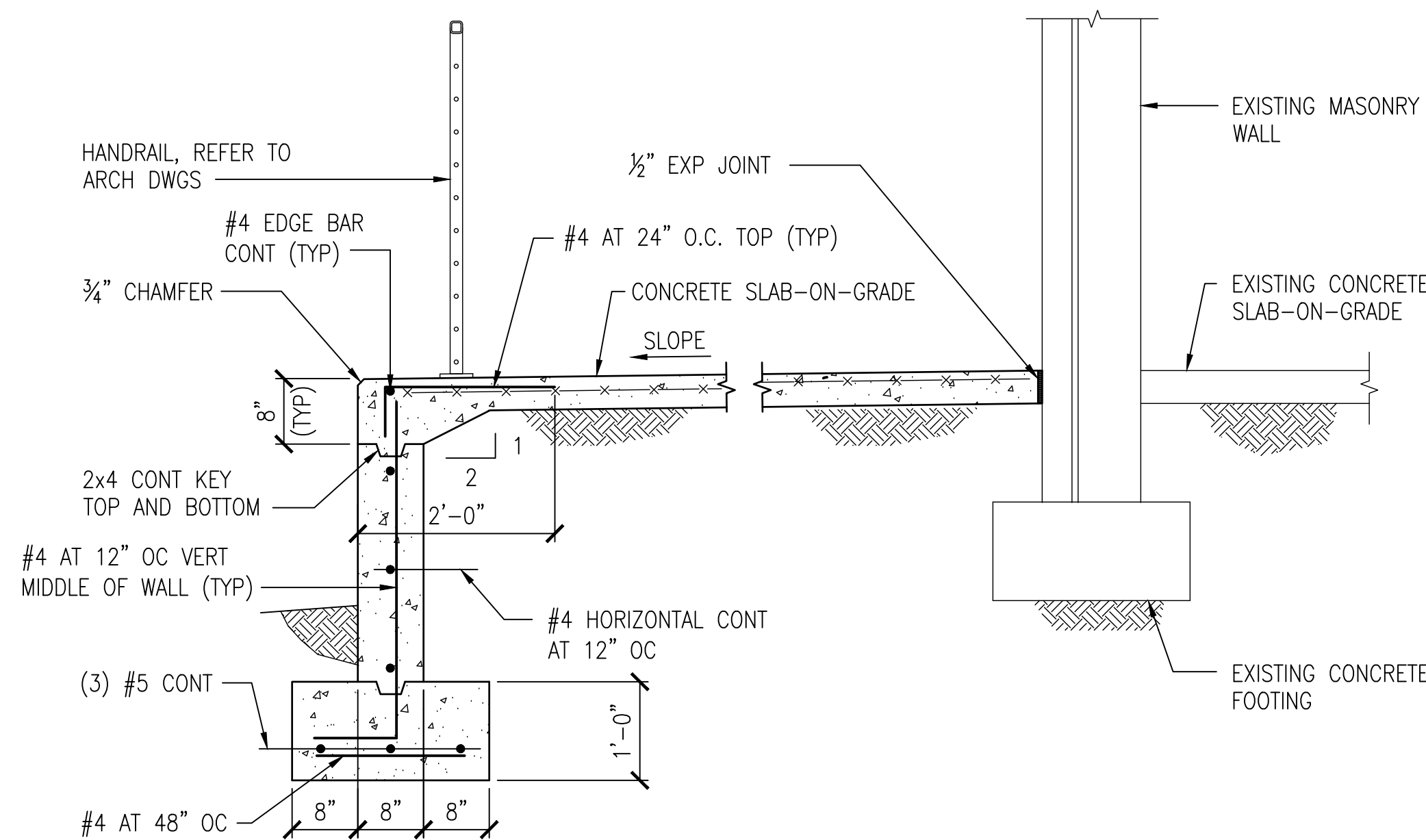


**TYPICAL NEW TO EXISTING
FOOTING CONNECTION**
NOT TO SCALE



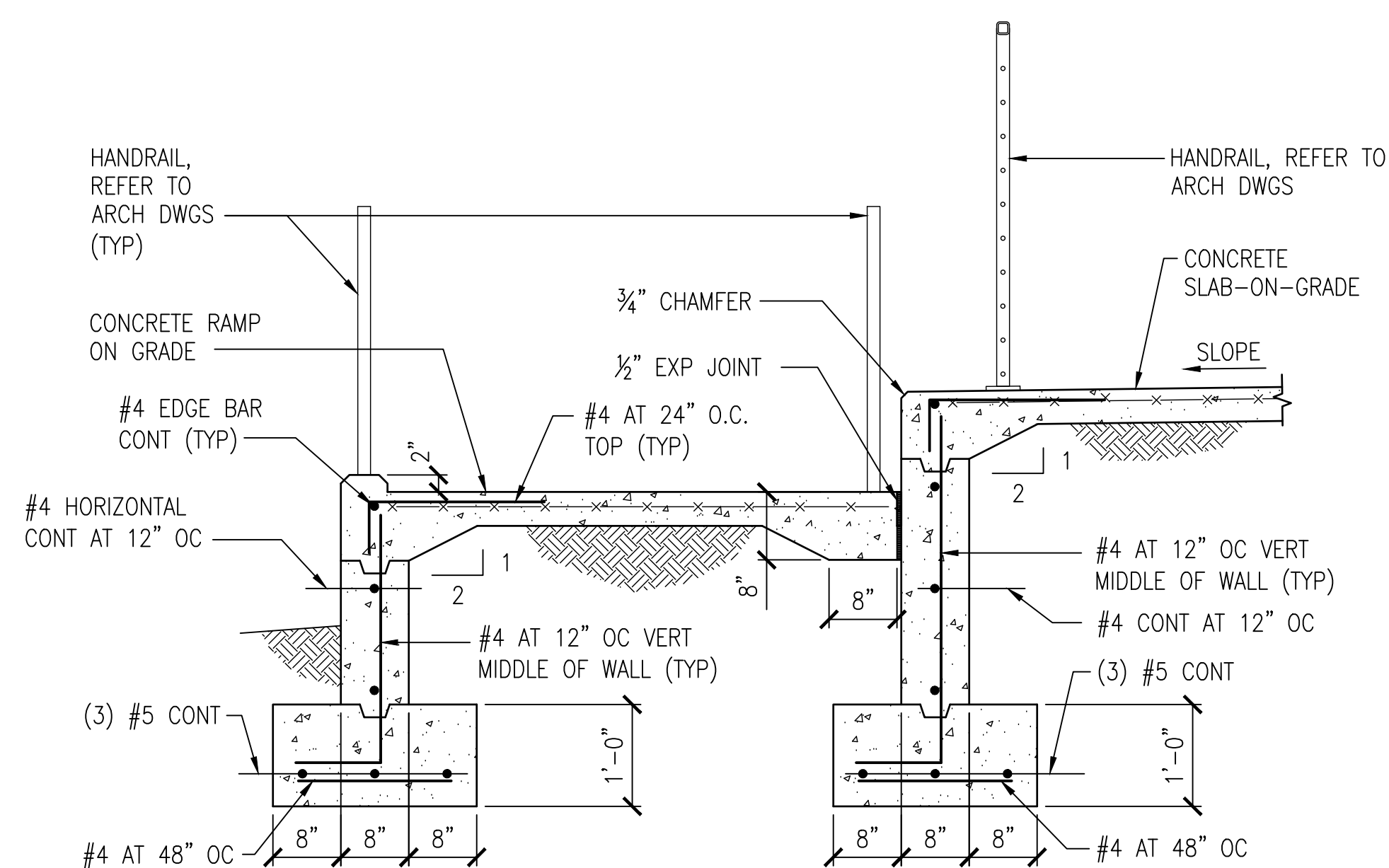
SECTION

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



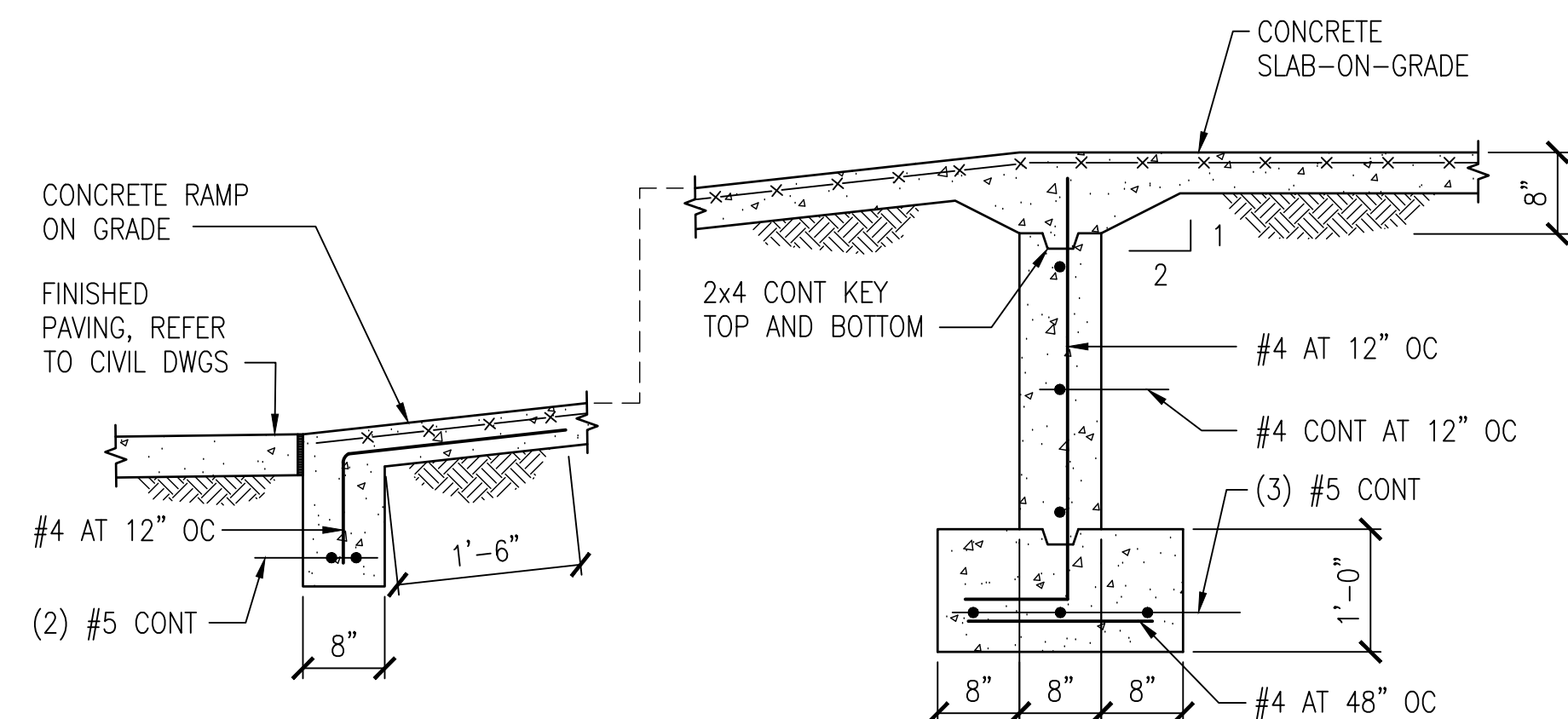
SECTION

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



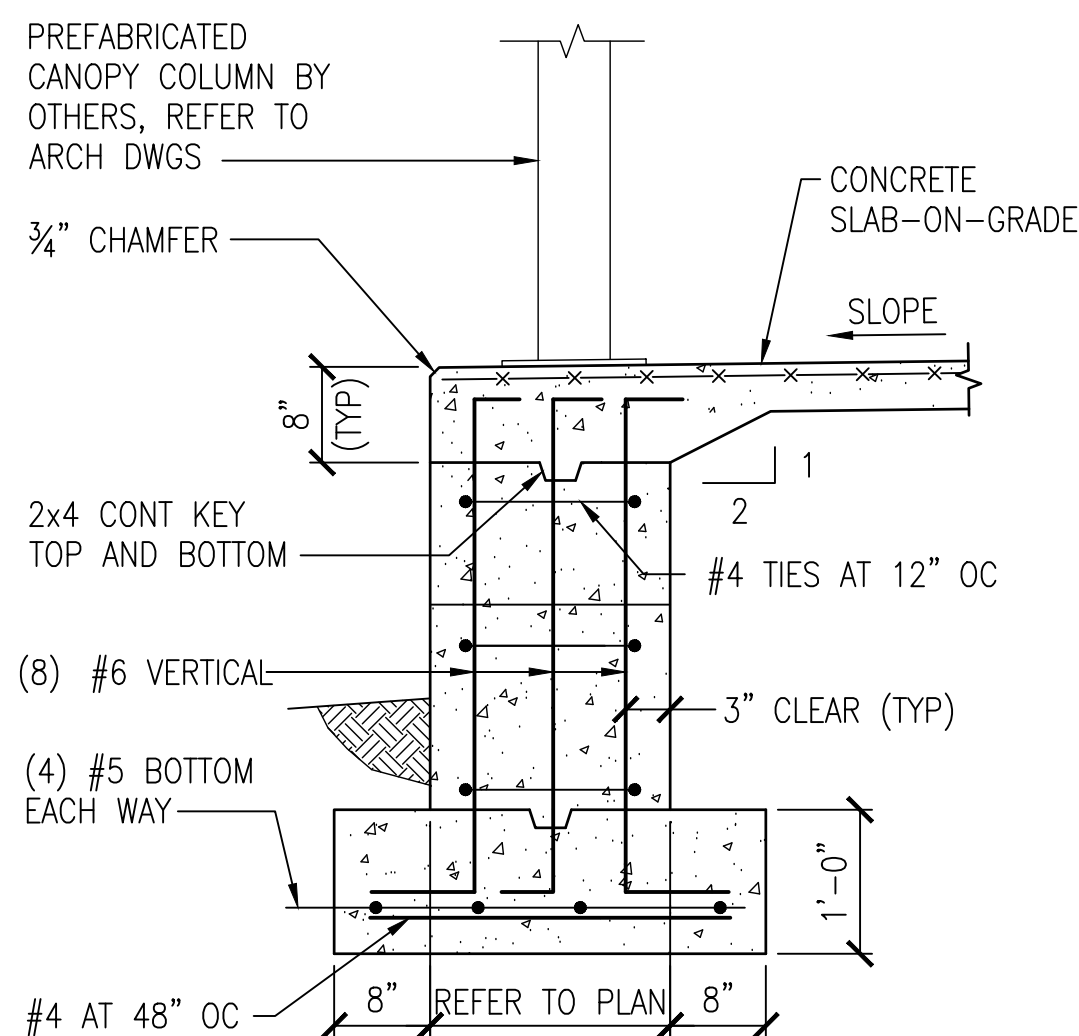
SECTION

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



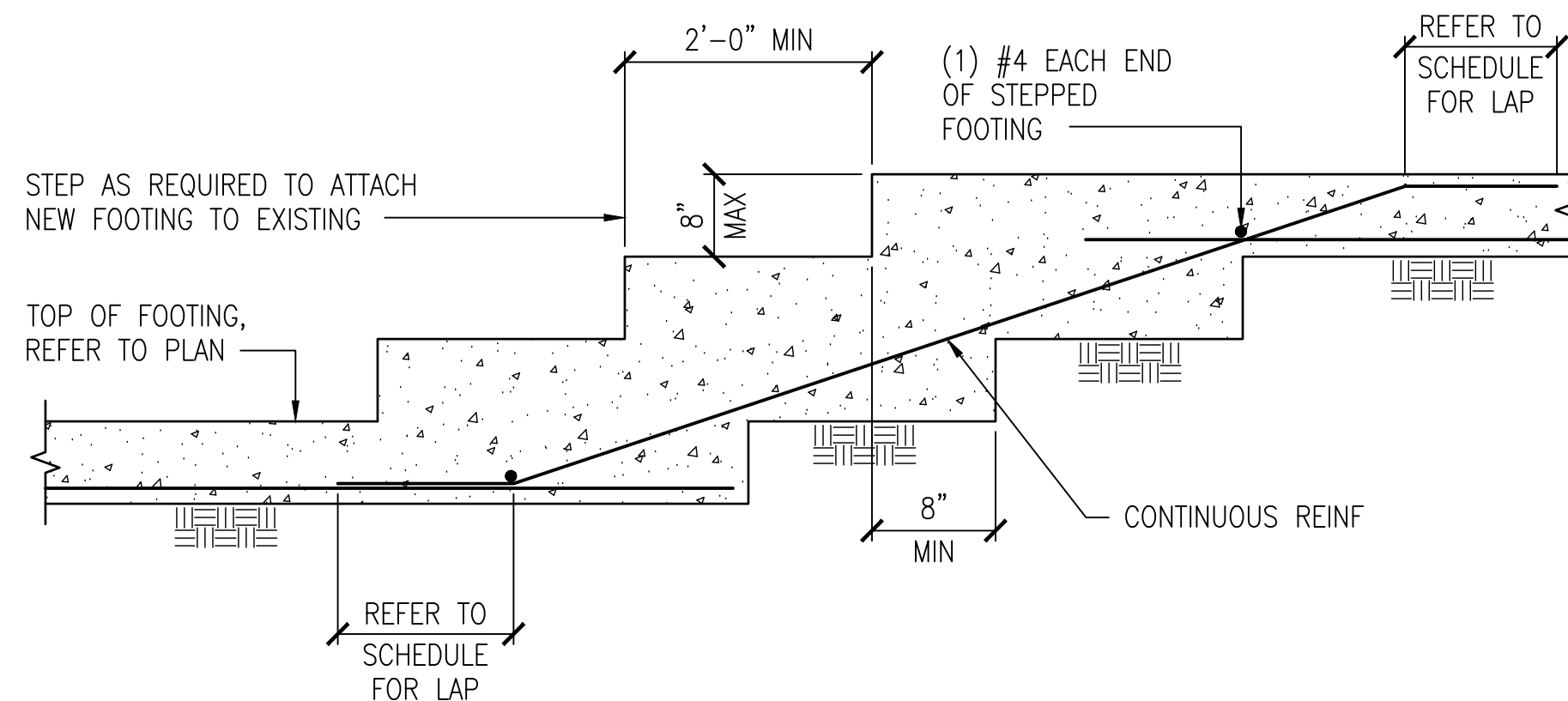
SECTION

SCALE: $3/4" = 1'-0"$



TYPICAL CONCRETE PIER DETAIL

CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE		
BAR SIZE	LAP LENGTH	
	TOP BARS	BOTTOM BARS
#4	33"	25"
#5	41"	31"
#6	49"	36"
#7	71"	54"
#8	81"	62"
#9	91"	70"



TYPICAL STEPPED FOOTING DETAIL

NOT TO SCALE

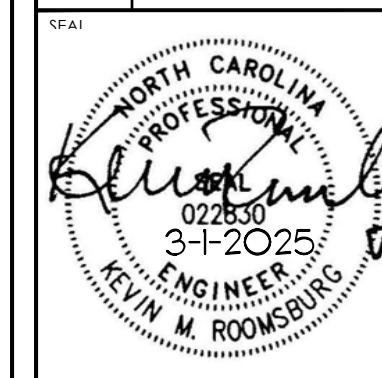
MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE
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JKR
ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-106

CITY OF GREENVILLE
PUBLIC WORKS BUILDING
RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

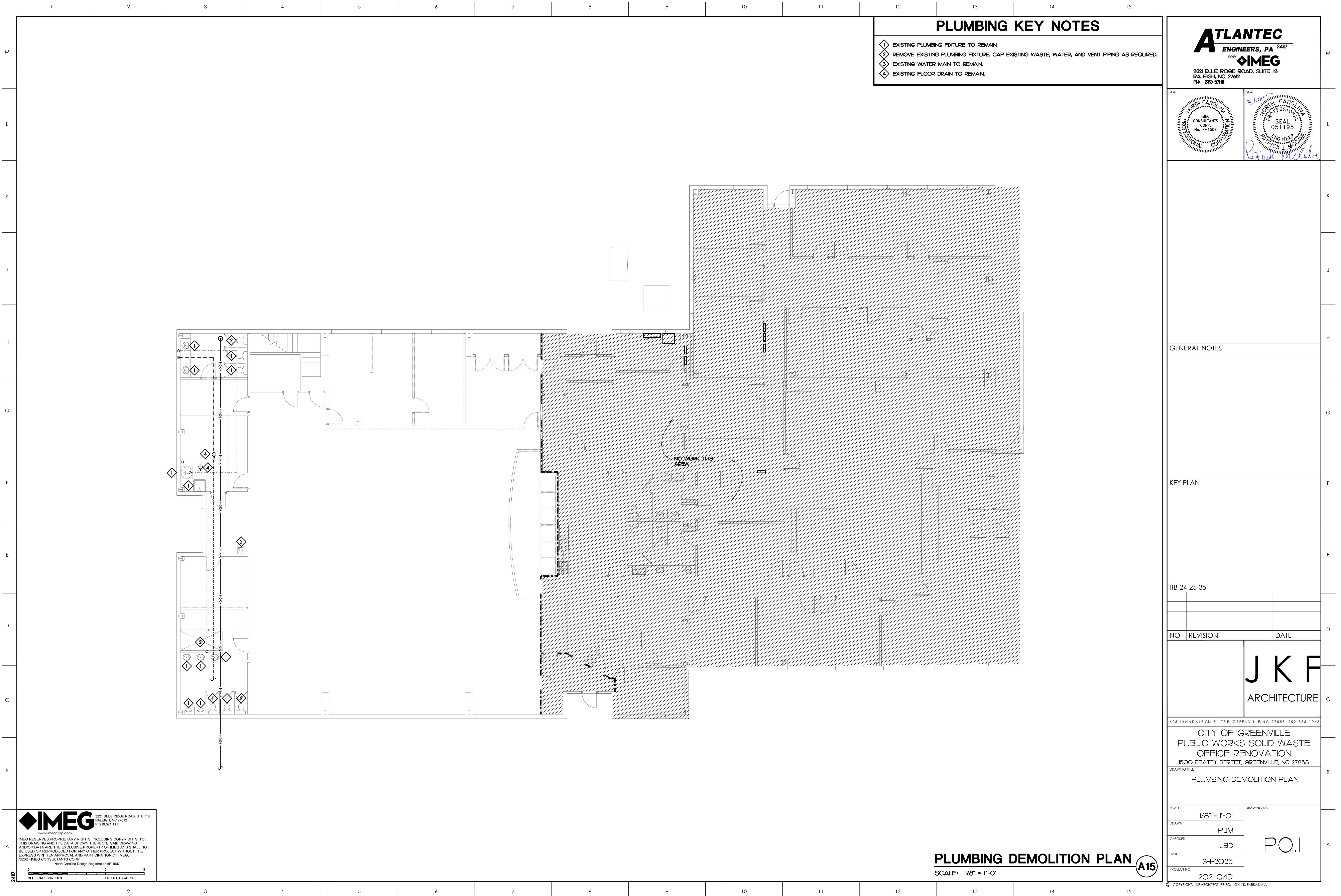
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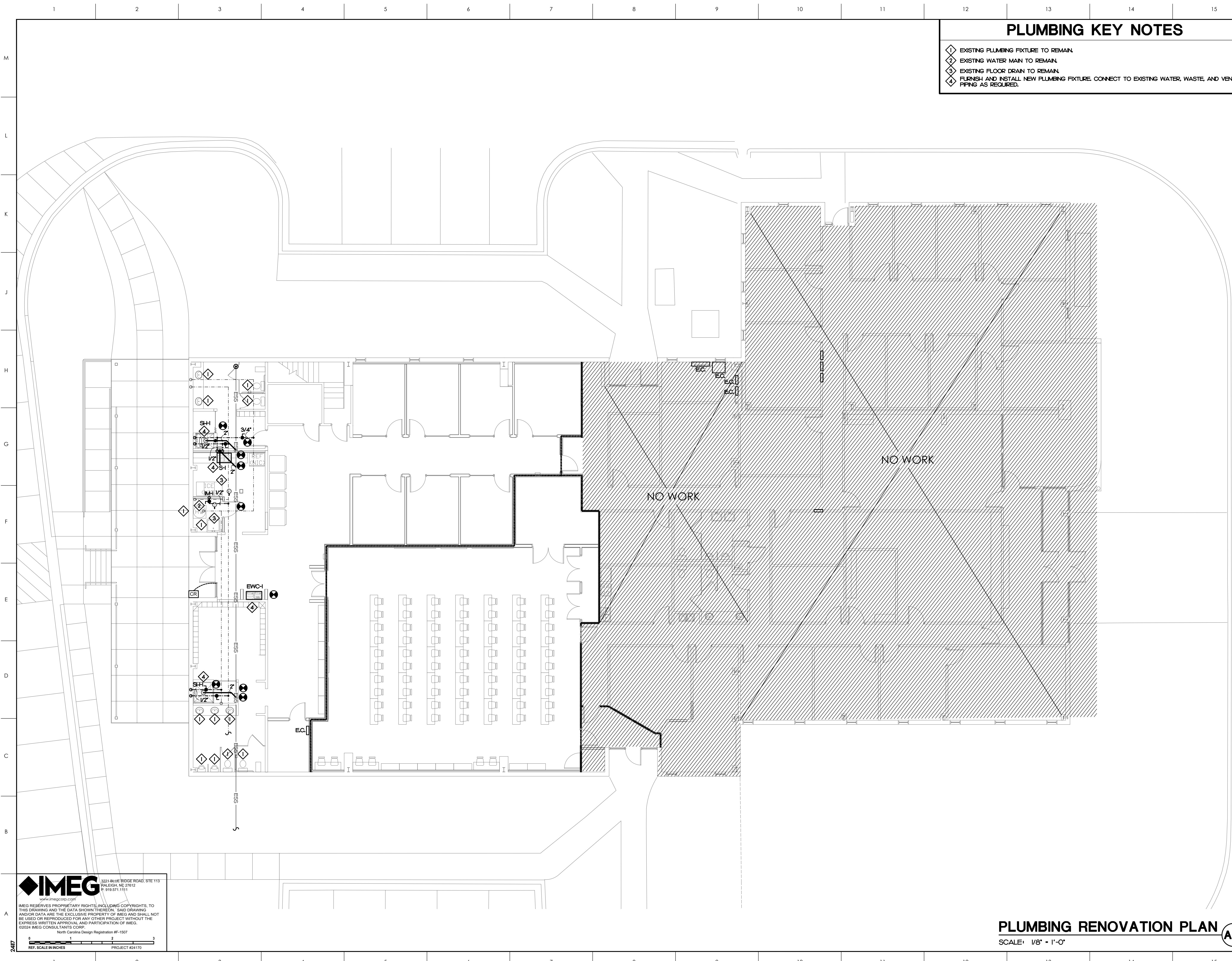
SECTIONS AND DETAILS

SCALE	AS NOTED
DRAWN	JSS
CHECKED	KMR
DATE	3-1-2025
PROJECT NO.	2021-O4D

S3.

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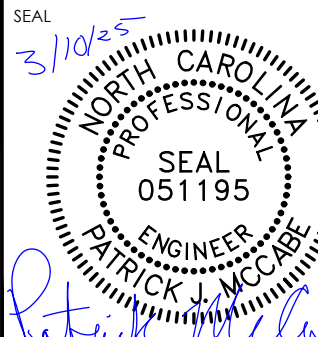
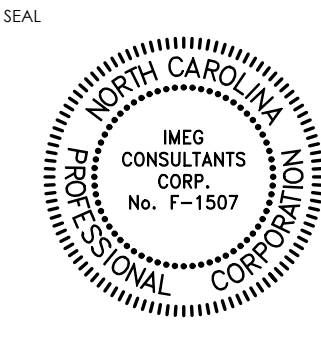


PLUMBING KEY NOTES

- 1 EXISTING PLUMBING FIXTURE TO REMAIN.
- 2 EXISTING WATER MAIN TO REMAIN.
- 3 EXISTING FLOOR DRAIN TO REMAIN.
- 4 FURNISH AND INSTALL NEW PLUMBING FIXTURE. CONNECT TO EXISTING WATER, WASTE, AND VENT PIPING AS REQUIRED.

ATLANTEC
ENGINEERS, PA 2487
now **IMEG**

3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH 919.571.1111



GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE
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J K F
ARCHITECTURE

625 LYNNDAL CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE
PLUMBING RENOVATION PLAN

SCALE
1/8" = 1'-0"

DRAWN
PJM

CHECKED
JBD

DATE
3-1-2025

PROJECT NO.
2021-04D

P.I.

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RALEIGH, NC 27612
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www.imegconsultants.com

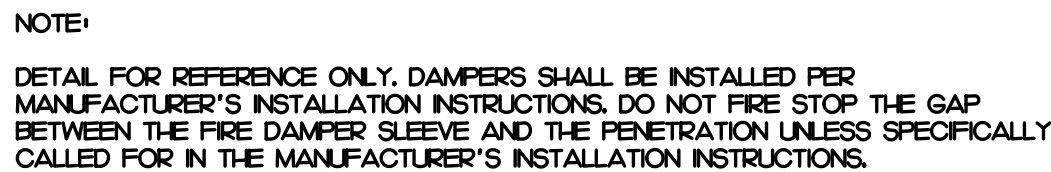
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North Carolina Design Registration #F-1507

REF. SCALE IN INCHES
0 1 2 3
PROJECT #24170

PLUMBING RENOVATION PLAN

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

A15



NOT TO SCALE



REQUIRED:

OFFICE = 3605 SQFT * 0.06 CFM/SQFT + 26 PERSONS * 5 CFM/PERSON = 346 CFM
 ASSEMBLY = 2203 SQFT * 0.06 CFM/SQFT + 50 PERSONS * 7.5 CFM/PERSON = 507 CFM
 TOTAL REQUIRED = 853 CFM

PROVIDED:

X-RTU-1 = 275 CFM
X-RTU-2 = 275 CFM
RTU-3 = 175 CFM
X-RTU-4 = 175 CFM

TOTAL PROVIDED = 900 CFM

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND
EQUIPMENT METHOD OF COMPLIANCE

PREScriptive ☒ ENERGY COST BUDGET ☐

THERMAL ZONE 4A

EXTERIOR DESIGN CONDITIONS

winter dry bulb: 16°F
summer dry bulb: 93°F
relative humidity: 46%

INTERIOR DESIGN CONDITIONS

winter dry bulb: 70°F
summer dry bulb: 74°F
relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 27.3 MBH (RTU-3)
BUILDING COOLING LOAD: BLOCK LOAD = 41.2 MBH (3.4 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:

description of unit: } SEE SCHEDULES ON SHEET(S) M2.1
heating efficiency: }
cooling efficiency: }
heat output of unit: }
cooling output of unit: }

Boiler: NA
total boiler capacity. If oversized state reason.

Chiller: NA
total chiller capacity. If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET(S) M2.I

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

motor horsepower: }
number of phases: } SEE SCHEDULES ON SHEET(S) M2.1
minimum efficiency: }
motor type: }
of poles: }

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code,

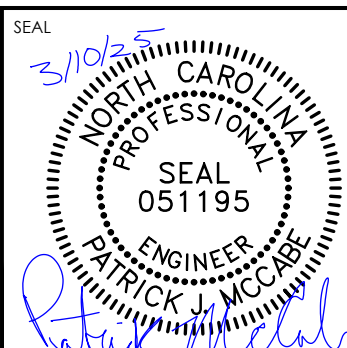
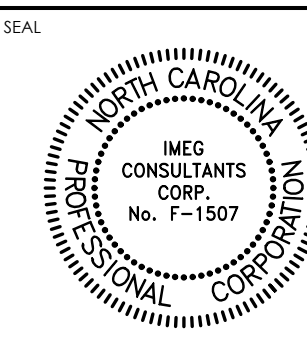
SIGNED:

NAME: Patrick J. McCabe, PE

TITLE: Professional Engineer

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M/C).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M/C SHALL COORDINATE ALL OF THEIR WORK WITH ALL OTHER CONTRACTORS.
4. THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MUST NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE M/C SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING, THE REVERSE OF THE CONTRACTOR PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M/C EQUIPMENT. THE M/C SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO THEIR EQUIPMENT.
7. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
8. INSTALL TURNING VANES IN ALL DUCTS AT ELBOWS, PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
9. ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M/C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR UNLESS OTHERWISE NOTED.
10. THE M/C SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER THEIR CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
11. THE M/C SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM THEIR WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF THEIR WORK. THEY SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN THEIR CONTRACT.
12. FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
13. ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
14. ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.
15. MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES IN FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PRELIMINARY R-10 TO R-16 DESIGN VALUES SHOWN ON THESE PLANS.
16. CONTRACTOR SHALL PROVIDE TESTING OF ALL FIRE DAMPERS PRIOR TO SUBSTANTIAL COMPLETION. ENGINEER SHALL WITNESS TESTING OF FIRE DAMPER BY CONTRACTOR. CONTRACTOR SHALL SHUT ALL DAMPERS AND REOPEN TO ENSURE ALL DAMPERS ARE CAPABLE OF CLOSING. CONTRACTOR SHALL PROVIDE ACCESS DOORS AS REQUIRED TO ACCESS DAMPER FOR TESTING.
17. INSTALL A RETURN AIR DUCTWORK MOUNTED SMOKE DETECTOR IN EACH UNIT. SMOKE DETECTOR PROVIDE A RETURN AIR DUCTWORK MOUNTED SMOKE DETECTOR IN EACH UNIT. SMOKE DETECTOR WIRE TO SHUT DOWN UNIT. PROVIDE AUXILIARY CONTACTS ON EACH DUCT DETECTOR FOR ALARM AND TROUBLE CONDITIONS. ALDUBLE AND VISUAL SIGNAL PROVIDE THROUGH FIRE ALARM CONTROL PANEL.
18. THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
19. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
20. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS UPON APPROVAL.
21. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
22. PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
23. LABEL LABELING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING, WITH EQUIPMENT IDENTIFIER, ALSO CEILING ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

SYMBOL	DESCRIPTION
	SHEET METAL DUCT
	EXISTING SHEET METAL DUCT
	REMOVE EXISTING DUCT
	EXISTING FLEXIBLE DUCT
	FLEXIBLE DUCT
	SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
	RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	SIDEWALL SUPPLY GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	SIDEWALL RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXISTING SUPPLY DIFFUSER
	EXISTING RETURN GRILLE
	EXHAUST FAN
	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
	BALANCING DAMPER
	ELBOW WITH TURNING VANES
	DUCT-MOUNTED SMOKE DETECTOR - PROVIDED BY E.C. & INSTALLED BY THE MECHANICAL CONTRACTOR - WIRE TO SHUT DOWN UNIT
	HUMIDISTAT - MOUNTED 48" ABOVE FINISHED FLOOR
	TEMPERATURE SENSOR - MOUNTED 48" ABOVE FINISHED FLOOR
	MOTOR OPERATED DAMPER
	DUCT MOUNTED HUMIDITY SENSOR
	DUCT MOUNTED SMOKE DETECTOR
	CONDENSATE DRAIN
	FIRE DAMPER
	H-R RATED WALL
	CONNECT TO EXISTING
	EXISTING FIRE DAMPER



GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE
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J K F
ARCHITECTUR

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OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE

MECHANICAL NOTES, LEGEND, AND
DETAILS

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

DRAWN
PJM

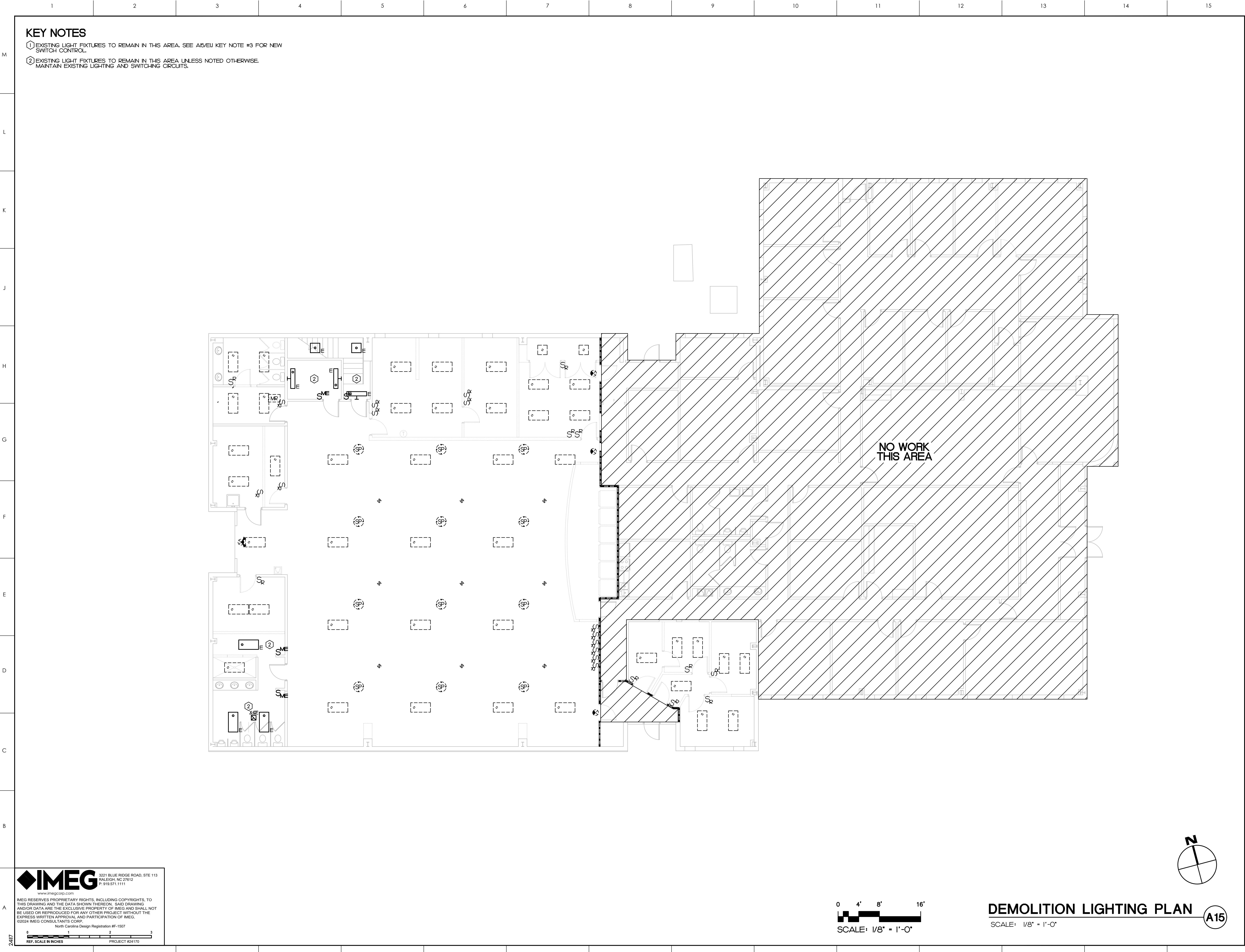
CHECKED _____ 155

DATE _____

3-1-2025

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2417

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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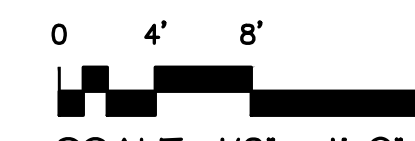
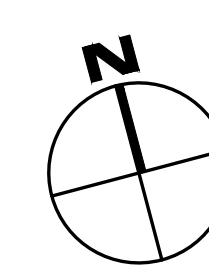
C

B

A

2417

- ① E.C. TO DEMOLISH ALL RECEPTACLES AND DATA OUTLETS ON WALL SHOWN AS DEMOLISHED IN THIS AREA. FIELD VERIFY EXACT QUANTITIES AND LOCATIONS. DEMOLISH EXISTING BRANCH CIRCUITS BACK TO PANEL AND EXISTING DATA CABLES BACK TO PATCH PANEL.
- ② EXISTING PLUGMOLD TO BE DEMOLISHED. DEMOLISH BRANCH CIRCUIT BACK TO PANEL OR NEXT UPSTREAM DEVICE.



DEMOLITION POWER PLAN

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

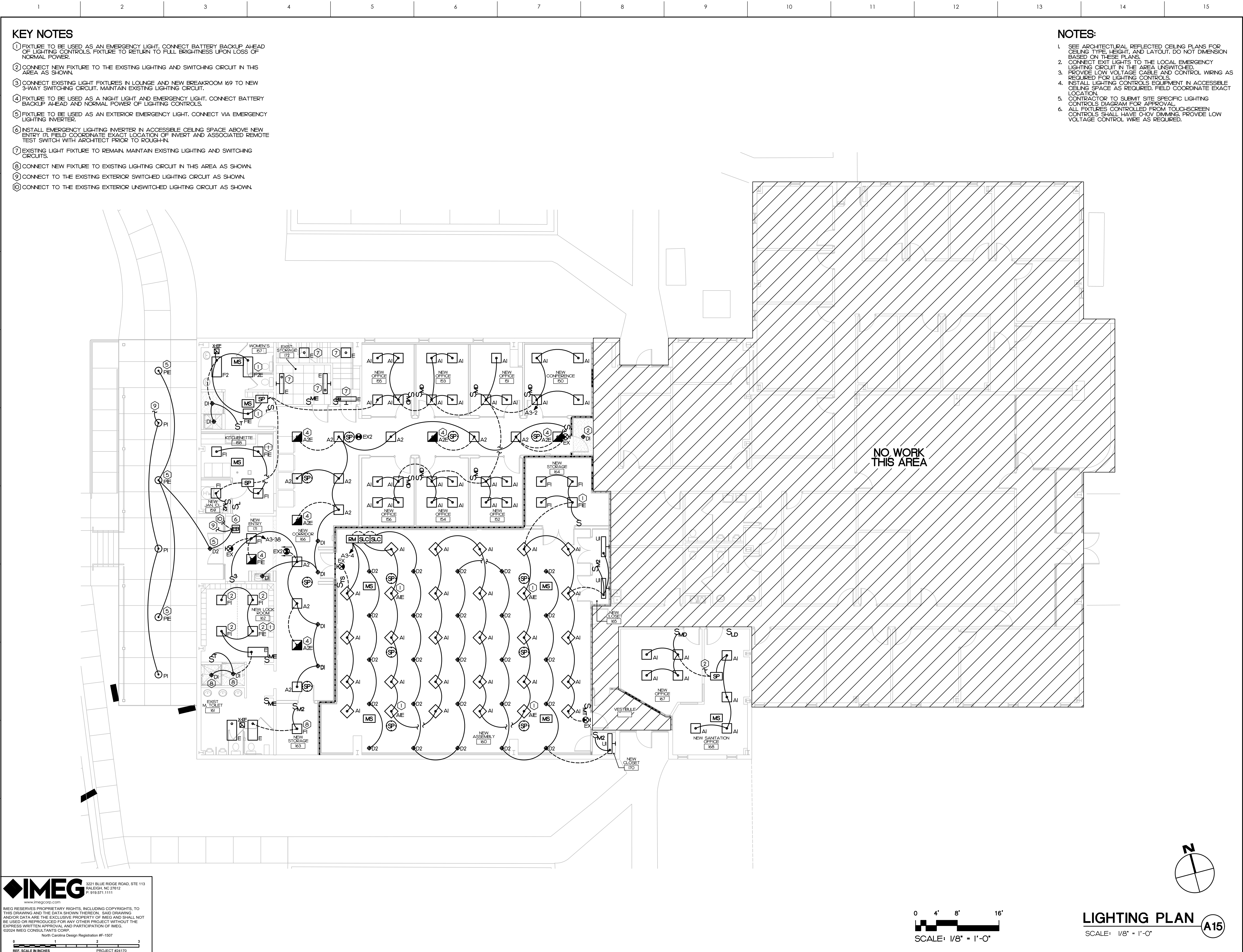
A15

SEAL

3/10/15

SEAL

SCALE	SEE PLANS	DRAWING NO. EO.2
DRAWN	JL	
CHECKED	MCB	
DATE	3-1-2025	
PROJECT NO.	2021-O4D	



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048828
ENGINEER
MATTHEW C. ERLY
P.E.

GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE

J K F
ARCHITECTURE

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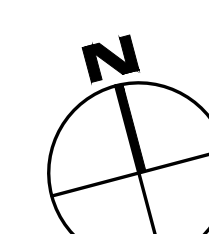
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DRAWING TITLE
LIGHTING PLAN

SCALE	DRAWING NO
SEE PLANS	
DRAWN JL	
CHECKED MCB	
DATE 3-1-2025	
PROJECT NO. 2021-04D	

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- ① CONNECT NEW RECEPTACLES TO THE EXISTING RECEPTACLE CIRCUIT IN THIS AREA AVAILABLE FROM DEMOLITION.
- ② CONNECT NEW RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT AS SHOWN.
- ③ EXISTING SECURITY PANEL TO REMAIN IN THIS AREA.



0 4' 8'

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

POWER PLAN **A15**
SCALE: 1/8" = 1'-0"

KEY PLAN

ITB 24-25-35		
NO	REVISION	DATE

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DRAWING TITLE

POWER PLAN

SCALE	SEE PLANS
DRAWN	JL
CHECKED	MCB
DATE	3-1-2025
PROJECT NO.	2021-04D

E2.1

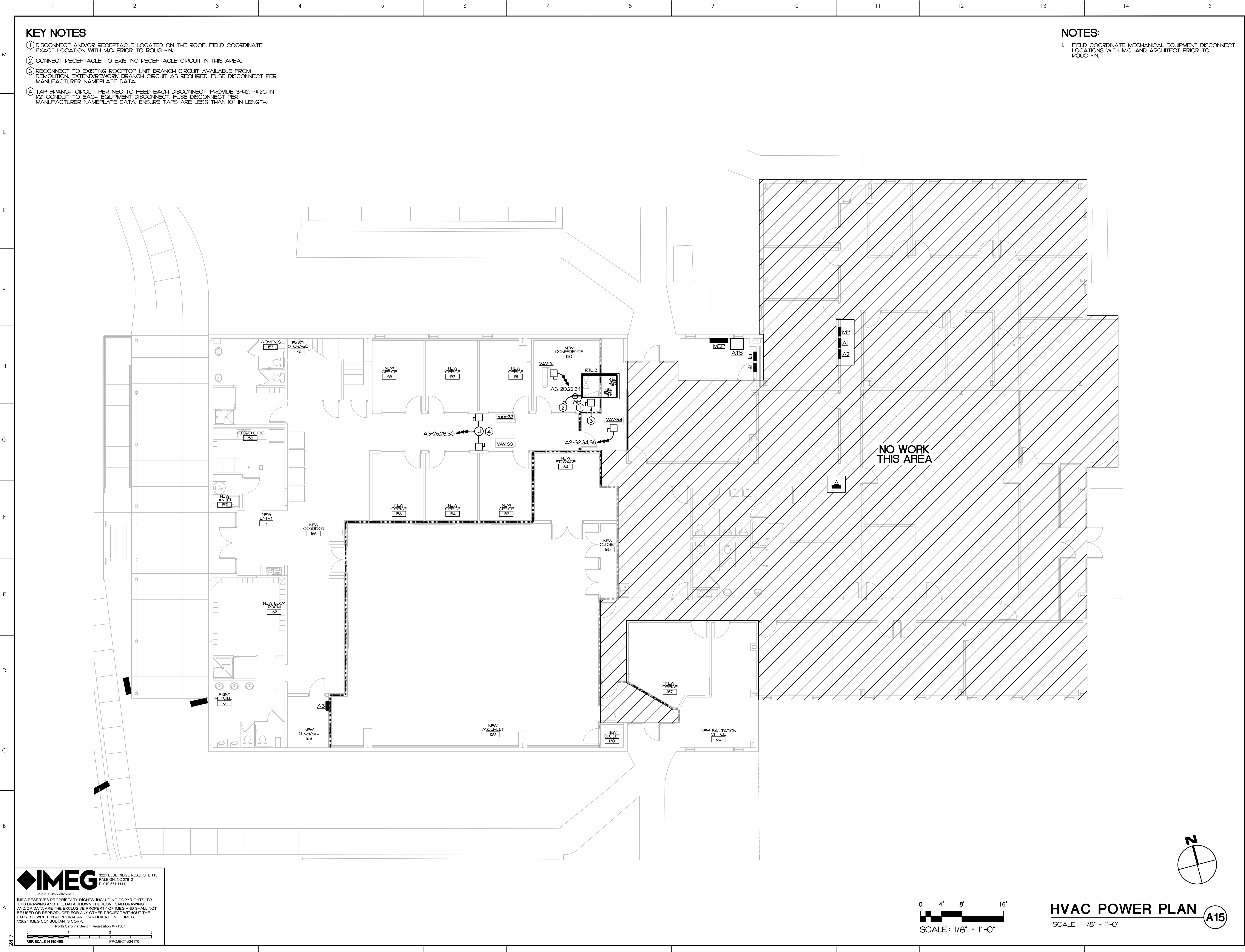
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0 1 2 3
REF. SCALE IN INCHES PROJECT #24170



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NORTH CAROLINA PROFESSIONAL ENGINEER
MATTHEW C. BRILEY
048828
3/10/25

GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE

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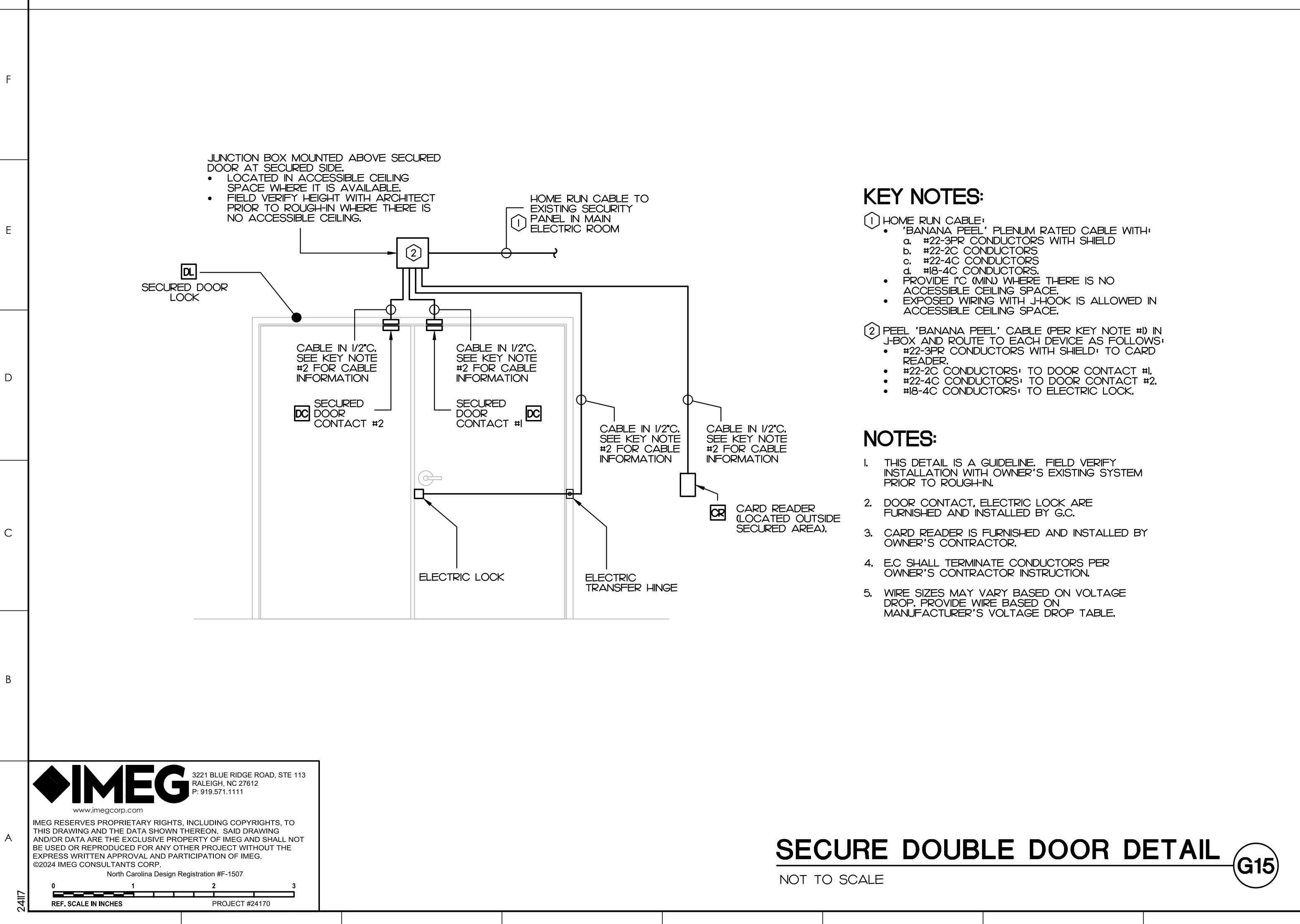
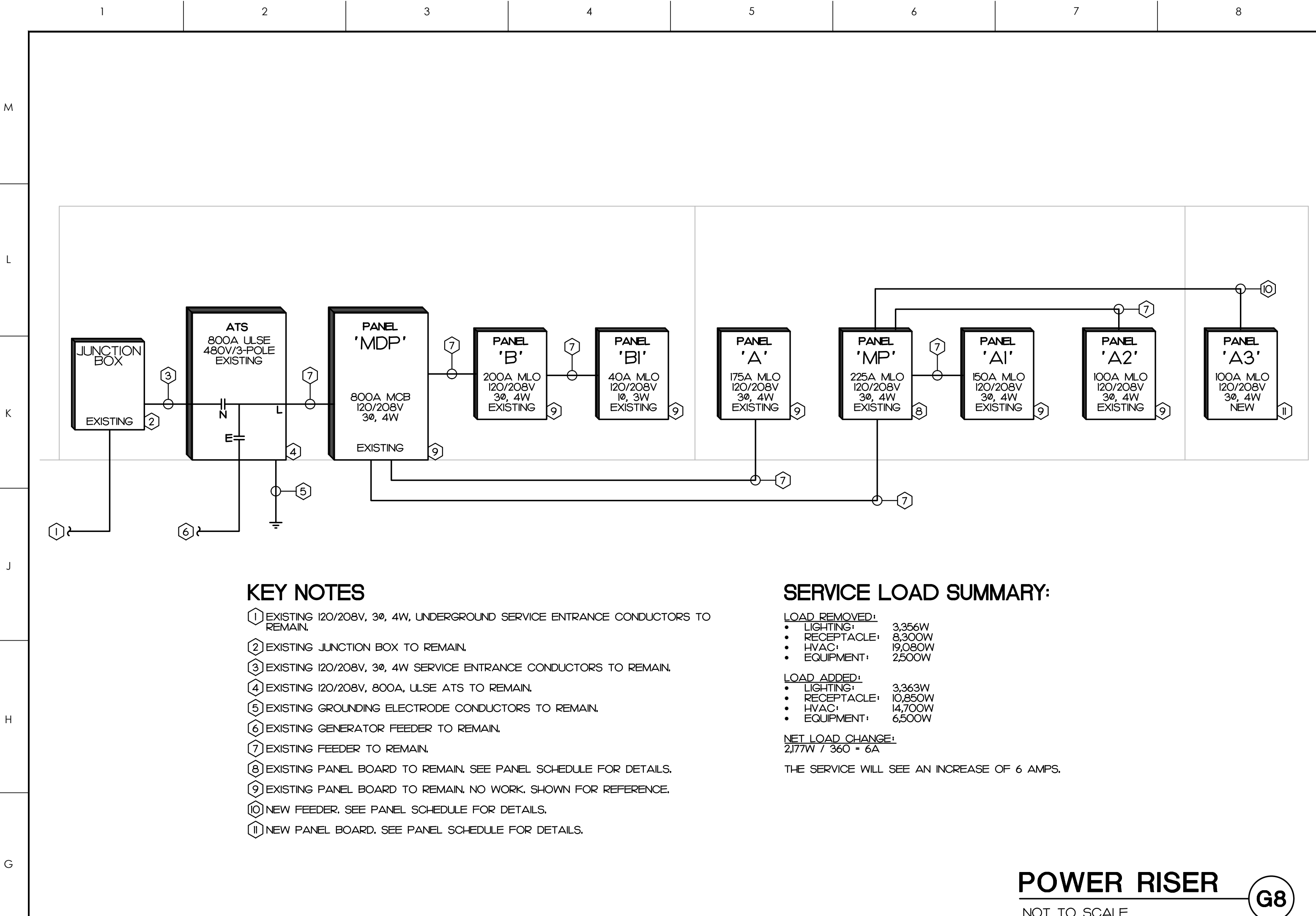
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DRAWING TITLE
HVAC POWER PLAN

SCALE	DRAWING NO.
SEE PLANS	E2.2
DRAWN: JL	
CHECKED: MCB	
DATE: 3-1-2025	
PROJECT NO.: 2021-04D	

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PANEL MP 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	KVA	C	G	W	CB	OKT
1	PANEL A2	EXIST	6.8	E	E	E	100	1	2	15	E	E	E	0.5
3			7.4	--	--	E	3P	3	4	3P	E	--	--	0.5
5			4.3	--	--	E	--	5	6	--	E	--	--	0.5
7	GATE MOTOR BOX 3	EXIST	0.5	E	E	E	15	7	8	15	E	E	E	0.5
9			0.5	--	--	E	3P	9	10	3P	E	--	--	0.5
11			0.5	--	--	E	--	11	12	--	E	--	--	0.5
13	GATE BOX 3 GFI	EXIST	0.2	E	E	E	20	13	14	100	3	8	1 1/4	11.7
15	SPACE ONLY		0.0	--	--	--	--	15	16	3P	3	--	--	11.6
17	SPACE ONLY		0.0	--	--	--	--	17	18	--	3	--	--	10.4
19	SPACE ONLY		0.0	--	--	--	--	19	20	--	--	--	--	0.0
21	SPACE ONLY		0.0	--	--	--	--	21	22	--	--	--	--	0.0
23	SPACE ONLY		0.0	--	--	--	--	23	24	--	--	--	--	0.0
25	SPACE ONLY		0.0	--	--	--	--	25	26	--	--	--	--	0.0
27	SPACE ONLY		0.0	--	--	--	--	27	28	--	--	--	--	0.0
29	SPACE ONLY		0.0	--	--	--	--	29	30	--	--	--	--	0.0
31	SPACE ONLY		0.0	--	--	--	--	31	32	--	--	--	--	0.0
33	SPACE ONLY		0.0	--	--	--	--	33	34	--	--	--	--	0.0
35	SPACE ONLY		0.0	--	--	--	--	35	36	--	--	--	--	0.0
37	SPACE ONLY		0.0	--	--	--	--	37	38	--	--	--	--	0.0
39	SPACE ONLY		0.0	--	--	--	--	39	40	--	--	--	--	0.0
41	SPACE ONLY		0.0	--	--	--	--	41	42	--	--	--	--	0.0
SI	SUB FEED TO PANEL AI	EXIST	8.0	E	E	E	150	SI						
			8.5	--	--	E	--							
			7.5	--	--	E	--							

GENERAL NOTES

225 A MINIMUM BUS SIZE
MAIN LUGS ONLY
10 K MINIMUM AIC RATING

FLUSH MOUNTING
NEMA 1 ENCLOSURE
GROUND BAR

CONNECTED LOADS

PHASE	LOAD	KVA
A	281	281
B	29	29
C	23.7	23.7
TOTAL	333.7	333.7
DEMAND	202	202

PANEL

A3

120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	
1	REC 150	11	1/2	1/2	1/2	20	1	2	20	1/2	1/2	1/2	11	2	
3	REC 151	0.9	1/2	1/2	1/2	20	3	4	20	1/2	1/2	1/2	17	4	
5	REC 152	0.9	1/2	1/2	1/2	20	5	6	20	1/2	1/2	1/2	0.9	6	
7	REC 153	0.9	1/2	1/2	1/2	20	7	8	20	1/2	1/2	1/2	0.2	8	
9	REC 154	0.9	1/2	1/2	1/2	20	9	10	20	1/2	1/2	1/2	0.5	10	
11	REC 155	11	1/2	1/2	1/2	20	11	12	20	1/2	1/2	1/2	0.7	12	
13	REC 156	0.9	1/2	1/2	1/2	20	13	14	20	1/2	1/2	1/2	0.5	14	
15	GFI REC 157	0.2	1/2	1/2	1/2	20	15	16	20	1/2	1/2	1/2	0.9	16	
17	GFI REC 158	0.2	1/2	1/2	1/2	20	17	18	20	1/2	1/2	1/2	0.5	18	
19	GFI REC 158	0.2	1/2	1/2	1/2	20	19	20	20	1/2	1/2	1/2	0.8	20	
21	REF 158	NOTE 2	0.5	1/2	1/2	1/2	20	21	22	3P	12	--	--	0.8	22
23	ICE MAKER 158	NOTE 2	0.5	1/2	1/2	1/2	20	23	24	--	12	--	--	0.8	24
25	VENDING 166	NOTE 2	0.5	1/2	1/2	1/2	20	25	26	30	10	10	3/4	2.7	26
27	VENDING 166	NOTE 2	0.5	1/2	1/2	1/2	20	27	28	3P	10	--	--	2.7	28
29	VENDING 166	NOTE 2	0.5	1/2	1/2	1/2	20	29	30	--	10	--	--	2.7	30
31	VENDING 166	NOTE 2	0.5	1/2	1/2	1/2	20	31	32	20	12	1/2	1/2	1.4	32
33	EWG 171	NOTE 2	0.5	1/2	1/2	1/2	20	33	34	3P	12	--	--	1.4	34
35	GFI REC 161	NOTE 2	0.2	1/2	1/2	1/2	20	35	36	--	12	--	--	1.4	36
37	SPARE	0.0	--	--	--	20	37	38	20	12	1/2	1/2	0.9	38	
39	SPARE	0.0	--	--	--	20	39	40	20	--	--	--	0.0	40	
41	SPARE	0.0	--	--	--	20	41	42	20	--	--	--	0.0	42	

DESCRIPTION

CONNECTED KVA

DEMAND FACTOR

DEMAND KVA

CONT. LOAD

3.74

125%

4.67

RECEPTACLE

1.70

100%/50%

1.85

MTRS/COOLS

1.20

100%

1.20

HEATS

15.50

100%

15.50

WATER HEATER

0.00

100%

0.00

EQUIPMENT

3.50

100%

3.50

KITCHEN EQUIP.

0.00

65%

0.00

SPECIAL EQ.

0.00

100%

0.00

25% OF LARGEST HVAC/MOTOR

0.00

4%

0.00

TOTAL DEMAND

33.72

200 A MINIMUM BUS SIZE

MAIN LUGS ONLY

10 K MINIMUM AIC RATING

SURFACE MOUNTING

NEMA 1 ENCLOSURE

GROUND BAR

NOTES

1. SQUARE D[®] NO

2. E.C. TO PROVIDE GFCI BREAKER.

CONNECTED LOADS

PHASE A¹

PHASE B¹

PHASE C¹

TOTAL¹

DEMAND

11.7 KVA

11.6 KVA

10.4 KVA

33.6 KVA

94 AMP

ATLANTEC ENGINEERS, PA
1000 IMEG
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PH: (919) 571-1111

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No. F-1507

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No. F-1507

GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO REVISION DATE

J K F
ARCHITECTURE

825 LYNDALE CT. SUITE F, GREENVILLE, NC 27858 252-355-1068

CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

POWER RISER, PANEL SCHEDULES, DETAILS

SCALE SEE PLANS
DRAWN JL
CHECKED MCB
DATE 3-1-2025
PROJECT NO. 2021-040

PANEL SCHEDULES
NOT TO SCALE

E3.1

2021-040

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RALEIGH, NC 27612
PH: (919) 571-1111

SEAL

SEAL
3/10/25

GENERAL NOTES

KEY PLAN

ITB 24-25-35

NO	REVISION	DATE

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CITY OF GREENVILLE
PUBLIC WORKS SOLID WASTE
OFFICE RENOVATION
1500 BEATTY STREET, GREENVILLE, NC 27858

DRAWING TITLE
FIRE ALARM PLAN

SCALE
SEE PLANS

DRAWN
JL

CHECKED
MCB

DATE
3-1-2025

PROJECT NO.
2021-04D

DRAWING NO.
FALL

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