### ADDENDUM # 3



DATE: July 18, 2022

PROJECT: **RCPS** Career and Technical Education Center

TO: **Prospective Bidders** 

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated June 17, 2022 as noted below. Acknowledge receipt of this addendum in the space on the Bid Proposal. Failure to do so may subject bidder to disqualification.

### **GENERAL:**

- 1. Specification sections 221113 and 221313 were inadvertently located in Division 2 EXISTING CONDITIONS and between sections of Division 28 ELECTRONIC SAFETY & SECURITY and Division 31 – EARTH WORK of the Project Manual. The correct location for these sections is Division 22 – PLUMBING.
- 2. See attached Appendix A Revised/Added Project Drawings and Specifications
- 3. See attached Appendix B Hazardous Material Reports
- 4. See attached Appendix C Site Storage Building Construction Documents for requirements associated with constructing foundation and slabs for site storage buildings as outlined in civil drawings.

### **PROJECT MANUAL:**

### **PROJECT MANUAL – TABLE OF CONTENTS**

ADD:

- 1) Specification Section 099114 Exterior Painting 2) Specification Section 099124 Interior Painting 3) Specification Section 101400 Signage 4) Specification Section 102800 5) Specification Section 323113 6) Specification Section 323223
- 7) Specification Section

### OMIT:

- 1) Specification Section
- 2) Specification Section
- 3) Specification Section

- Toilet, Bath and Laundry Accessories
- Chain Link Fences and Gates
- Segmental Retaining Walls
- Turf and Grasses 329200
- 123616 Metal Countertops
- 271500 Horizontal Cabling
- Security Pathways 280528

### **REVISE:**

 Specification Section "280544 Sleeves and Sleeve Seals for Communication Pathways and Cabling" to read "270544 Sleeves and Sleeve Seals for Communication Pathways and Cabling

## PROJECT MANUAL, SPECIFICATION SECTION 005000 – CONTRACTING FORMS AND SUPPLEMENTS:

OMIT:

1) Part 1 General; Section 2.03; paragraph A.

### **PROJECT MANUAL, SPECIFICATION SECTION 007200 GENERAL CONDITIONS:**

### **REVISE:**

1) Part 1 General; Section 1.2; paragraph A as follows:

The General Conditions applicable to this contract are included by reference as if bound herein: AIA Document A201-2017, General Conditions of the Contract for Construction.

### **PROJECT MANUAL, SPECIFICATION SECTION 007300 SUPPLEMENTARY CONDITIONS:**

### OMIT:

1) Part 1 General; Section 3.06; paragraph A.

### **PROJECT MANUAL, SPECIFICATION SECTION 011000 – SUMMARY:**

OMIT:

- 1) Part 1 General; Section 1.04; paragraph A.
- 2) Part 1 General; Section 1.04; paragraph D.
- 3) Part 1 General; Section 1.04; paragraph E.
- 4) Part 1 General; Section 1.04; paragraph Items 2 and 3.

### **REVISE:**

- 1) Part 1 General; Section 1.04; paragraph 1 as follows:
  - E. Owner will supply the following for installation by Contractor:
    - 1. All toilet accessories including mirrors and soap dispensers.

### OMIT:

- 1) Part 1 General; Section 1.04; paragraph 2, item B, Number 5.
- 2) Part 1 General; Section 1.04; paragraph 3, Item D.

### **PROJECT MANUAL, SPECIFICATION SECTION 012100 – ALLOWANCES**

### OMIT:

- 1) Part 1 General; Section 1.01; paragraph A.
- 2) Part 1 General; Section 1.03 Cash Allowances

### **REVISE:**

- 1) Part 1 General; Section 1.05 as follows
  - 1.01 ALLOWANCES SCHEDULE
    - A. Contingency Allowance: Include the stipulated sum of \$3,000,000 for use upon Owner's instructions.
    - B. Western Virginia Water Authority: No fee.
    - C. VSMP Fee: Include the stipulated sum of \$ 500.00.
    - D. Erosion and Sediment Control Agreement: Include the stipulated sum of \$150.00
    - E. Erosion and Sediment Control Surety: Include the calculated sum to provide a surety based on a principal amount of \$102,250.00 (includes new stormwater pipes and quantity quality measures).
      - a. Principal amount is subject to adjustment, pending review by City of Roanoke.
    - F. Storm Water Pollution Prevention Plan: No cost.

### **PROJECT MANUAL, SPECIFICATION SECTION 012200– UNIT PRICES**

### OMIT:

- 1) Part 1 General; Section 6; paragraph D.
- 2) Part 1 General; Section 6; paragraph E.
- 3) Part 1 General; Section 6; paragraph F.

### **PROJECT MANUAL, SPECIFICATION SECTION 012300 – ALTERNATES**

### **OMIT** specification section.

### PROJECT MANUAL, SPECIFICATION SECTION 014000- QUALITY REQUIREMENTS

### OMIT:

1) Part 1 General; Section 1.05; paragraph C; ITEMS 5, 6 and 7.

## PROJECT MANUAL, SPECIFICATION SECTION 014533 – CODE-REQUIRED SPECIAL INSPECTIONS AND PROCEDURES

### **REVISE:**

1) Part 1 General; Section 1.05; paragraph A as follows:

A. Code or Building Code: ICC (IBC), International Building Code, 2015 Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements and specifically, Chapter 17 - Special Inspections and Tests.

OMIT:

1) Part 3 Execution; Section 3.08.

## PROJECT MANUAL, SPECIFICATION SECTION 015000 – TEMPORARY FACILITIES AND CONTROLS

OMIT:

2) Part 1 General; Section 1.04; paragraph D and E.

OMIT:

1) Part 1 General; Section 1.06 – Fencing.

**REVISE:** 

- 1) Part 1 General; Section 1.12; paragraph A as follows:
  - 1.12 PROJECT IDENTIFICATION
    - A. Provide project identification sign of size, design and construction and location as approved by Owner.
    - B. No other signs are allowed without Owner permission except those required by law.

## PROJECT MANUAL, SPECIFICATION SECTION 017000 – EXECUTION AND CLOSEOUT REQUIREMENTS

OMIT:

1) Part 3 Execution; Section 3.06; paragraph G, Item 4.

### **PROJECT MANUAL, SPECIFICATION SECTION 002419 – SELECTIVE DEMOLITION**

### **REVISE:**

1) Part 1 General; Section 1.5; paragraph B; delete the following sentence:

"Comply with Section 013233 "Photographic Documentation."

### **REVISE:**

1) Part 3 Execution; Section 3.5; paragraph A; Item 10; delete the following sentence:

"Comply with requirements in Section 017419 "Construction Waste Management and Disposal.""

### **REVISE:**

1) Part 3 Execution; Section 3.7; paragraph A; delete the following sentence:

"[and recycle or dispose of them according to Section 017419 "Construction Waste Management and Disposal."]

#### OMIT:

1) Part 3 Execution; Section 3.7; paragraph A; Item 4.

### PROJECT MANUAL, SPECIFICATION SECTION 033000 – CAST-IN-PLACE CONCRETE REVISE: Part 3 Execution, Section 3.7; paragraph C; item 5; sub-item a; 1) as follows:

1) Specified overall values of flatness,  $F_F$  45; and of levelness,  $F_L$  35; with minimum local values of flatness,  $F_F$  30; and of levelness,  $F_L$  24.

#### ADD: to Part 2 Products:

#### 2.4 VAPOR RETARDERS

- A. Sheet Vapor Retarder, Class A: ASTM E1745, Class A not less than 10 mils (0.25 mm) thick. Include manufacturer's recommended adhesive or pressure-sensitive tape. Install vapor barrier beneath new concrete slab at all locations within buildings where existing concrete slab and floor finish are removed exposing gravel base. Do not install vapor barrier over existing concrete sub-slab remaining after removal of wood flooring within existing gymnasium.
  - a. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:

Poly-America, L.P. Stego Industries, LLC. W. R. Meadows, Inc.

### **PROJECT MANUAL, SPECIFICATION SECTION 042000 – UNIT MASONRY**

### ADD: Following to Part 2 Products; Section 2.9:

- D. Metal Drip Edge: Provide continuous drip edge complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
  - 1. Fabricate metal drip edges from stainless steel. Extend at least 3 inches (76 mm) into wall and 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed. Install at all steel lintels in new exterior masonry wall openings. Lap through wall membrane flashing over metal drip. Embed drip edge into mortar joint at sides of opening.

### PROJECT MANUAL, SPECIFICATION SECTION 053100 – STEEL DECKING

### **REVISE:** Part 2 Products, Section 2.2; paragraph A; items 3 through 6 as follows:

- 3. Galvanized- and Shop-Primed Steel Sheet: ASTM A653/A653M, Structural Steel (SS)
- 4. Deck Profile: To match existing.
- 5. Profile Depth: To match existing

6. Design Uncoated-Steel Thickness: As indicated on drawings

### PROJECT MANUAL, SPECIFICATION SECTION 061000 – ROUGH CARPENTRY REVISE: Part 2 PRODUCTS, Section 2.4; paragraph A as follows:

A. Equipment Backing Panels: Plywood, DOC PS 1 fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4-inch (19-mm)] nominal thickness.

### PROJECT MANUAL, SPECIFICATION SECTION 072100 – THERMAL INSULATION REVISE: Part 2 PRODUCTS, Section 2.1; paragraph D as follows:

D. Thermal-Resistance Value (R-Value): R-value as indicated below in accordance with ASTM C518.

### **REVISE:** Part 2 PRODUCTS, Section 2.2; paragraph A, item 1. as follows:

1. Extruded Polystyrene Board Insulation, Type VI: ASTM C578, Type VI, 40-psi (276-kPa) minimum compressive strength.

### PROJECT MANUAL, SPECIFICATION SECTION 072500 – ROOF SPECIALTIES REVISE: Part 2 PRODUCTS, Section 2.3; paragraph B; item 1. as follows:

1. Aluminum Sheet: 0.050 inch (1.27 mm) thick.

### **REVISE:** Part 2 PRODUCTS, Section 2.3; paragraph C; item 1. as follows:

1. Formed Aluminum: 0.050 inch (1.27 mm) thick.

### PROJECT MANUAL, SPECIFICATION SECTION 079200 – JOINT SEALANTS OMIT: Part 2 PRODUCTS; Section 2.3.

### OMIT: Part 2 PRODUCTS; Section 2.4; paragraphs B, D and E.

## PROJECT MANUAL, SPECIFICATION SECTION 081113 – HOLLOW METAL DOORS AND FRAMES

### ADD: to 1.1 SUMMARY; paragraph A:

1) Interior standard steel doors and frames.

## ADD: to PART 2 – PRODUCTS; 2.3 INTERIOR STANDARD STEEL DOORS AND FRAMES:

C. Construct hollow-metal doors to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified. All astragals shall be removable.

- 1. Standard-Duty Doors and Frames: ANSI/SDI A250.8, Level 1; ANSI/SDI A250.4, Level C.
  - a. Type: As indicated in the Door and Frame Schedule.
  - b. Thickness: 1-3/4 inches
  - c. Face: Uncoated steel sheet, minimum thickness of 0.032 inch.
  - d. Edge Construction: Model 2, Seamless.
  - e. Edge Bevel: Provide manufacturer's standard beveled or square edges.
  - f. Core: Manufacturer's standard
  - g. Fire-Rated Core: Manufacturer's standard core for fire-rated.
  - h. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Security.
- 2. Exposed Finish: Prime.

#### **REVISE:** Part 2 PRODUCTS; Section 2.4; paragraph A; as follows:

A. Construct hollow-metal doors and frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified. All astragals shall be removable.

#### **PROJECT MANUAL, SPECIFICATION SECTION 081416 – FLUSH WOOD DOORS**

**OMIT:** Part 2 PRODUCTS; Section 2.2.

- **OMIT:** Part 2 PRODUCTS; Section 2.4; paragraph A; item 7.
- **OMIT:** Part 2 PRODUCTS; Section 2.5; paragraph B.
- **OMIT:** Part 3 EXECUTION; Section 3.3; paragraph C.

#### **PROJECT MANUAL, SPECIFICATION SECTION 088000 – GLAZING**

**ADD:** to PART 2 – PRODUCTS; Section 2.4; paragraph C; the following:

- 4. Type GL-6 Single Casework Shelving and Door Panels:
  - a. Application: Vestibule showcase casework glazing.
  - b. Type: Fully tempered float glass.
  - c. Thickness: 1/4 inch at operable door panels; 3/8 inch minimum at shelving

### PROJECT MANUAL, SPECIFICATION SECTION 093013 – CERAMIC TILING REVISE: Part 2 PRODUCTS, Section 2.5; paragraph A as follows:

1. Apply to face of existing masonry walls with residual thin-set mortar or adhesive.

### **PROJECT MANUAL, SPECIFICATION SECTION 099114 – EXTERIOR PAINTING**

ADD: Specification Section 099114 included with this Addendum.

### **PROJECT MANUAL, SPECIFICATION SECTION 099124 – INTERIOR PAINTING**

**ADD:** Specification Section 099124 included with this Addendum.

### **PROJECT MANUAL, SPECIFICATION SECTION 101400 – SIGNAGE**

**ADD:** Specification Section 101400 included with this Addendum.

### PROJECT MANUAL, SPECIFICATION SECTION 102800 – TOILET, BATH AND LAUNDRY ACCESSORIES

ADD: Specification Section 102800 included with this Addendum.

### **PROJECT MANUAL, SPECIFICATION SECTION 104416 – FIRE EXTINGUISHERS**

**OMIT**: Part 2 – PRODUCTS, Section 2.2. EQUIPMENT

ADD: IN SECTION 1.1; D. Related Requirements the following:

1. SECTION 104413 - FIRE PROTECTION CABINETS

### **PROJECT MANUAL, SPECIFICATION SECTION 105113 – METAL LOCKERS**

**ADD:** to PART 2 – PRODUCTS; Section 2.4; paragraph C; the following:

- B. Manufacturers and Types:
  - 1. Manufacturers:
    - a. Provide products by one of the following or equal: Art Metal Products. LockersMFG. Penco Products, Inc.
  - 2. Locker Type:
    - a. 15 inch wide Double Tiered metal locker unless otherwise indicated in drawings.

### PROJECT MANUAL, SPECIFICATION SECTION 122413 – ROLLER WINDOW SHADES OMIT:

1) Part 2 – PRODUCTS; paragraph 2.2; sub-paragraph G; Item "2. Recessed Shade Pocket" and Item "3. Closure Panel and Wall Clip"

## PROJECT MANUAL, SPECIFICATION SECTION 211313– WET PIPE SPRINKLER SYSTEMS, FIRE PROTECTION

### OMIT: 2. Sprinkler System Installer

a. The sprinkler system installation must be regularly engaged in the installation of the type and complexity of system specified in the contract documents, and must be certified as a Level II Technician by National Institute for Certification in Engineering Technologies (NICET) in the Water-Based Systems Layout subfield of Fire Protection Engineering Technology in accordance with NICET 1014-7.

# REPLACE WITH: 2. Sprinkler System Installer a. The sprinkler system installation must be regularly engaged in the installation of the type and complexity of system specified in the contract documents.

### **PROJECT MANUAL, SPECIFICATION SECTION 230713 – DUCT INSULATION**

OMIT: Part 3 – EXECUTION; Paragraph 3.12; Items C and D

### **PROJECT MANUAL, SPECIFICATION SECTION 230800 – COMMISSIONING OF HVAC**

**OMIT:** All references to "Section 019113 – General Commissioning Requirements"

### **PROJECT MANUAL, SPECIFICATION SECTION 233113 – METAL DUCTS**

**ADD:** Part 3 – EXECUTION; paragraph 3.11.B.2 as follows:

THE VAV DUCTWORK BETWEEN THE ROOFTOP UNIT AND THE VAV BOXES, THE WELDING EXHAUST SYSTEM, DUST COLLECTION SYSTEM, VEHICLE EXHAUST SYSTEM AND KITCHEN HOOD EXHAUST SYSTEMS SHALL BE LEAK TESTED IN ACCORDANCE WITH SMACNA'S "AIR DUCT LEAKAGE TEST MANUAL". REPRESENTATIVE SECTIONS TOTALING NOT LESS THAT 25 PRECENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED.

### PROJECT MANUAL, SPECIFICATION SECTION 323113 – CHAIN LINK FENCES AND GATES ADD Specification Section 323113 included with this Addendum.

PROJECT MANUAL, SPECIFICATION SECTION 323223 – SEGMENTAL RETAINING WALLS ADD Specification Section 323223 included with this Addendum.

PROJECT MANUAL, SPECIFICATION SECTION 329200 – TURF AND GRASSES ADD Specification Section 329200 included with this Addendum.

### **PROJECT MANUAL:**

ADD: "Appendix B - Hazardous Material Survey Reports (March 2022 and May 2022) included in this addendum.

### **PROJECT MANUAL:**

Add: "Appendix C – Site Storage Building Construction Documents" for requirements associated with constructing foundation and slabs for site storage buildings as outlined in civil drawings.

### **PROJECT DRAWINGS**

### **REPLACE:**

- i. Replace following drawings with the revised drawings noted in Revision table as "Revision 1, 7/18/22, Addendum 3" included in Appendix A within this Addendum:
  - G1
  - G2

C04 C05 C06 C08 C09

- C10
- C11 C13
- C14
- C25
- C26
- S1.0
- S1.1
- S1.2
- S1.3
- S1.4
- S1.5
- S1.6 S2.1
- A1.1
- A1.101 A1.102 A1.103 A1.104 A1.105 A1.106 A1.107
- A1.108
- A1.2
- A1.201 A1.202

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A1.203
A1.204
A1.205
A1.206
A1.301
A1.302
A1.305
A1.306
A1.307
A1.308
A1.309
A1.310
A1.311
A1.4
A4.4
A5.101
A6.2
A7.1
A7.2
A7.3
A7.4
A8.1
/ 10/12
ID2.2
ID2.3
ID3.5
ID4.2
ID4.3
ID4.4
ID4.5
104.5
104.5
M0.1
M0.1
M0.1 M2.2
M0.1 M2.2 M2.3
M0.1 M2.2 M2.3 M2.4
M0.1 M2.2 M2.3 M2.4 M2.5
M0.1 M2.2 M2.3 M2.4 M2.5 M2.6
M0.1 M2.2 M2.3 M2.4 M2.5 M2.6 M2.7
M0.1 M2.2 M2.3 M2.4 M2.5 M2.6 M2.7 M3.2 M3.3
M0.1 M2.2 M2.3 M2.4 M2.5 M2.6 M2.7 M3.2 M3.3 M3.4
M0.1 M2.2 M2.3 M2.4 M2.5 M2.6 M2.7 M3.2 M3.3 M3.4 M3.5
M0.1 M2.2 M2.3 M2.4 M2.5 M2.6 M2.7 M3.2 M3.3 M3.4

M4.2

P0.1 P2.1 P2.2 P2.3 P2.4 P2.5 P2.6 P2.7 P3.2 P3.3 P3.4 P3.5 P3.6 P3.7 P4.1 E001 E200 E201 E202 E203 E204 E301 E302 E303 E304 E305 E401 E402 E403 E404 E501 E502 E503 E504 E505 E506 E507 E508 G-001 G-101 G-102 FA002 FA101.4 FA101.5 FA101.7 FA102 FA102.1 FA102.4 FA102 FA103 FA301 FX301 FX101 FX101 FX102 FX201

ADD:

Add the following drawings included in Appendix A within this
 Addendum noted in Revision table as "Revision 1, 7/18/22, Addendum 3":

A1.109 A1.207 A4.5 A8.2 E-306 E-307

### **APPENDIX A – REVISED/ADDED PROJECT DRAWINGS AND SPECIFICATIONS**

		$\sim$		INDEX OF DRAWINGS			
	GENERAL		AD4.1	DEMOLITION ELEVATIONS - BUILDING 2		A9.2	MISCELLANEOUS DETAILS
VISIONS	DWG NO. DRAWING TITLE		AD4.2	DEMOLITION ELEVATIONS - BUILDING 2			INTERIORS
	CS COVER SHEET		) AD4.3	DEMOLITION ELEVATIONS - BUILDING 3		ID.1A	FINISH SCHEDULE
1)	G1 INDEX OF DRAWINGS		) A1.1	NEW WORK OVERALL GROUND FLOOR PLAN		ID1.1	OVERALL GROUND FLOOR PLAN
1	G2 INDEX OF DRAWINGS		) A1.101	NEW WORK PARTIAL GROUND FLOOR PLAN - AREA A		ID1.2	GROUND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA A
$\rightarrow$	G3 ABBREVIATIONS AND GENERAL PROJECT NOTES		) A1.102	NEW WORK PARTIAL GROUND FLOOR PLAN - AREA B		ID1.3	GROUND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA B
$\overline{\langle}$	CIVIL		) A1.103	NEW WORK PARTIAL GROUND FLOOR PLAN - AREA C		ID1.4	GROUND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA C
)	CO1 COVER SHEET		) A1.104	NEW WORK PARTIAL GROUND FLOOR PLAN - AREA D			GROUND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA D
	CO2 GENERAL NOTES		A1.105	NEW WORK PARTIAL GROUND FLOOR PLAN - AREA E			
$\langle$	CO3 E&SC NARRATIVE		A1.106	NEW WORK PARTIAL GROUND FLOOR PLAN - AREA F			GROUND FLOOR FINISHES ENLARGED PARTIAL PLAN - AREA E
1	CO4 OVERALL EXISTING CONDITIONS AND E&SC PLAN NOTES		) A1.107	NEW WORK PARTIAL GROUND FLOOR PLAN - AREA G	-	ID2.1	OVERALL SECOND FLOOR PLAN
1 )	CO5 EXISTING CONDITIONS, DEMO, & PHASE 1 E&SC PLAN			NEW-WORK PARTIAL GROUND ELOOR PLAN AREA H	$\rightarrow$ 1	) ID2.2	SECOND FLOOR FINISHES ENLARGED PARTIAL PLAN - AREA A
1	CO6 EXISTING CONDITIONS, DEMO, & PHASE 1 E&SC PLAN		)	GROUND FLOOR ENLARGED PLAN DETAILS		) ID2.3	SECOND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA B
	CO7 EXISTING CONDITIONS, DEMO, & PHASE 1 E&SC PLAN		)	NEW WORK OVERACL SECOND FLOOR PLAN		ID2.4	SECOND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA C
$\rightarrow$	C08 LAYOUT-OVERALL		) A1.201	NEW WORK SECOND FLOOR PARTIAL PLAN - AREA A		/ ID2.5	SECOND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA D
	COS LATOUT-OVERALE CO9 LAYOUT & DIMENSION PLAN PART I		/ A1.202	NEW WORK SECOND FLOOR PARTIAL PLAN - AREA B		)	SECOND FLOOR FINISHES ENLARGED PARTIAL PLAN -AREA E
	CO9 LAYOUT & DIMENSION PLAN PART I C10 LAYOUT & DIMENSION PLAN PART II		Á1.203	NEW WORK SECOND FLOOR PARTIAL PLAN - AREA C	$\rightarrow$	}	
$\rightarrow$	C10 LATOUT & DIMENSION PLAN PART II C11 LAYOUT & DIMENSION PLAN PART III		A1.204	NEW WORK SECOND FLOOR PARTIAL PLAN - AREA D	<	/ ID3.1	
$\rightarrow$	C11 LATOUT & DIMENSION PLAN PART III C12 OVERALL GRADING PLAN AND E&SC PLAN NOTES	- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	)   A1.205	NEW WORK SECOND FLOOR PARTIAL PLAN – AREA E		/	GROUND FLOOR FURNITURE PARTIAL PLAN - AREA A
$\rightarrow$	C12 GRADING & PHASE II E&SC PLAN		) \		<u> </u>	)	GROUND FLOOR FURNITURE PARTIAL PLAN – AREA B GROUND FLOOR FURNITURE PARTIAL PLAN – AREA C
$\neg$	C14 GRADING & PHASE II E&SC PLAN			NEW WORK SECOND FLOOR PARTIAL PLAN – AREA F	1	}	GROUND FLOOR FURNITURE PARTIAL PLAN - AREA C
$\rightarrow$	C15 GRADING & PHASE II E&SC PLAN		) A1.207	SECOND FLOOR ENLARGED PLAN DETAILS		<u>\</u>	GROUND FLOOR FURNITURE PARTIAL PLAN - AREA D
$\rightarrow$	C16 E&SC DETAILS		A1.301	GROUND FLOOR OVERALL REFLECTED CEILING PLAN	$\langle$	/	SECOND FLOOR OVERALL FURNITURE PLAN
$\rightarrow$	C17 SITE DETAILS	- > 1 <	) A1.302	GROUND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA A		)	SECOND FLOOR FURNITURE PARTIAL PLAN - AREA A
	C18 WATER & SEWER DETAILS		) A1.303	GROUND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA B		}	SECOND FLOOR FURNITURE PARTIAL PLAN - AREA B
$\rightarrow$	C19 STORM SEWER DETAILS		) A1.304	GROUND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA C	$\rightarrow$ 1	<u></u>	SECOND FLOOR FURNITURE PARTIAL PLAN - AREA C
$\rightarrow$	C20 STORM SEWER DETAILS	-	) 41 305	GROUND FLOOR PARTIAL REFLECTED CEILING PLAN – AREA D		/	SECOND FLOOR FURNITURE PARTIAL PLAN - AREA D
$\overline{\langle}$	C21 STORM SEWER DETAILS		)			/	SECOND FLOOR FURNITURE PARTIAL PLAN - AREA E
$\overline{}$	C22 STORM SEWER PROFILES		)	GROUND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA E	$\rightarrow$	)	MECHANICAL
$\sum$	C23 WATER & SANITARY SEWER PROFILES		) A1.307	SECOND FLOOR OVERALL REFLECTED CEILING PLAN	1	) мо.1	MECHANICAL LEGEND AND SCHEDULES
$\overline{\langle}$	C24 PARKING LANDSCAPING PLAN		A1.308	SECOND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA A		) M0.2	MECHANICAL SCHEDULES
$\overline{\langle}$	C25 LANDSCAPING NOTES & DETAILS		) A1.309	SECOND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA B	( <	/ M1.1	GROUND FLOOR OVERALL MECHANICAL NEW WORK PLAN
$\overline{)}$	C26 COURTYARD SCORE JOINT DIMENSION PLAN	> 1 <	A1.310	SECOND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA C		)	
$\langle \rangle$	STRUCTURAL		) A1.311	SECOND FLOOR PARTIAL REFLECTED CEILING PLAN – AREA D	$\rightarrow$	)	SECOND FLOOR OVERALL MECHANICAL NEW WORK PLAN
$\langle$	S1.0 GENERAL STRUCT NOTES, SCHEDLES AND TYP. SECTIONS		)			′ M2.1	GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - ARE.
	S1.1 FRONT ENTRANCE CANOPY FOUNDATION & ROOF FRAMING PLAN		)	SECOND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA E		/ M2.2	GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - ARE.
<u> </u>	S1.2 BUILDING NO. 2 SLAB AND LINTEL PLAN		/ /	DEMO AND NEW WORK ROOF PLAN AND DETAILS		) м2.3	GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - ARE
	S1.3 BUILDING NO. 2 CEILING FRAMING PLAN		)	CEILING BULKHEAD DETAILS	1	) M2.4	GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - ARE
	S1.4 BUILDING NO. 2 ROOF PLAN		)	NEW WORK BUILDING ELEVATIONS - BLDG 2	$\rightarrow$ 1	) M2.5	GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - ARE
	S1.5 BUILDING NO. 3 SLAB AND LINTEL PLAN		<u>/                                    </u>	NEW WORK BUILDING ELEVATIONS - BLDG 2		/   \	
<u>)</u>	S1.6 BUILIDING NO. 3 ROOF SCREEN		/ /	NEW WORK BUILDING ELEVATIONS - BLDG 3	-(	) M2.6	GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - ARE
	S2.1 SECTIONS		}	EXTERIOR SCREEN WALL ELEVATIONS AND DETAILS	> 1	) M2.7	GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - ARE
	ARCHITECTURAL		)	EXTERIOR WALL SECTIONS AND DETAILS		) M3.1	SECOND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA
	AD1.1 GROUND FLOOR OVERALL DEMOLITION PLAN		<u>/                                    </u>	INTERIOR ELEVATIONS AND DETAILS	<u> </u>	M3.2	SECOND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA
	AD1.2 SECOND FLOOR OVERALL DEMOLITION PLAN		/ /	TOILET ELEVATIONS AND DETAILS		/ M.3.3	SECOND FLOOR PARTIAL MECHANICAL NEW WORK PLAN – AREA
	AD1.3 PARTIAL GROUND FLOOR DEMO PLAN - AREA A		)	RECERTION DESK ELEVATIONS AND DETAILS		)	
	AD1.4 PARTIAL GROUND FLOOR DEMO PLAN - AREA B		)	INTERIOR ELEVATIONS AND DETAILS		)	SECOND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA
	AD1.5 PARTIAL GROUND FLOOR DEMO PLAN - AREA C	+ / ·	/			M3.5	SECOND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA
	AD1.6 PARTIAL GROUND FLOOR DEMO PLAN - AREA D		/ A6.1	WALL TYPES		ИЗ.6	SECOND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA
	AD1.7 PARTIAL GROUND FLOOR DEMO PLAN - AREA E		)	WALL TYPES		)МЗ.7	SECOND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA
	AD1.8 PARTIAL GROUND FLOOR DEMO PLAN - AREA F	- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	)	DOOR, FRAME AND HARDWARE SCHEDULE	$\rightarrow$	) M4.1	MECHANICAL DEMOLITION ROOF PLAN
	AD1.9 PARTIAL GROUND FLOOR DEMO PLAN - AREA G	- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	/	DOOR, FRAME AND HARDWARE SCHEDULE			MECHANICAL NEW WORK ROOF PLAN
	AD2.1 PARTIAL SECOND FLOOR DEMO PLAN - AREA A	-	/ /	DOOR, FRAME AND WINDOW TYPES AND DETAILS		/	
	AD2.2 PARTIAL SECOND FLOOR DEMO PLAN - AREA B		)	WINDOW TYPES AND DETAILS	$\checkmark$	M5.1	MECHANICAL DETAILS
	AD2.3 PARTIAL SECOND FLOOR DEMO PLAN - AREA C		)	STOREFRONT-ELEVS AND DETAILS	<u>``</u>	M5.2	MECHANICAL DETAILS
	AD2.4 PARTIAL SECOND FLOOR DEMO PLAN – AREA D	- $1$	/	STOREFRONT DETAILS		M6.1	MECHANICAL CONTROLS
	AUZIO I ANTIAL SLOUND I LOUN DLINO FLAN - AREA E		1 ma	ENTRANCE CANOPY DETAILS	$\overline{}$	I	

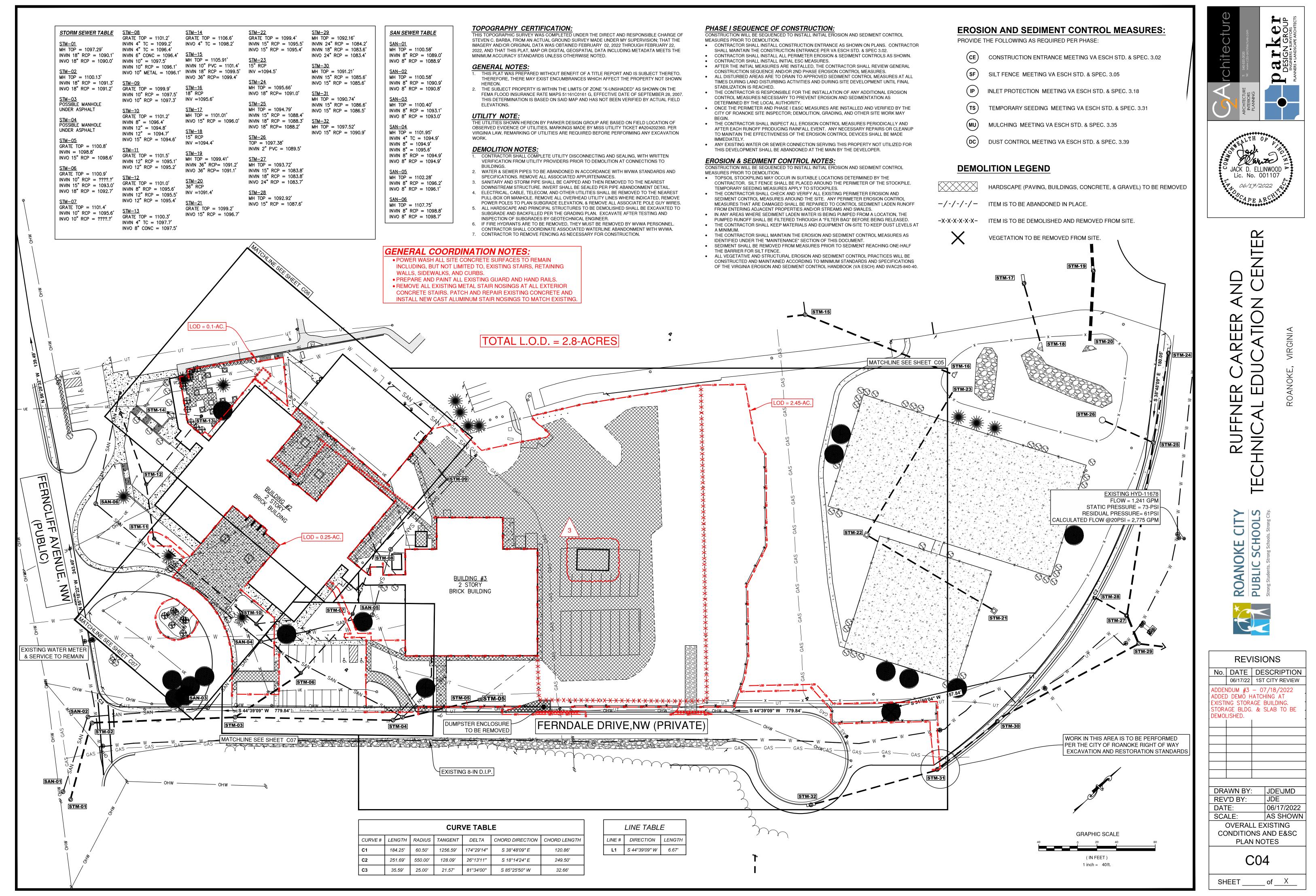
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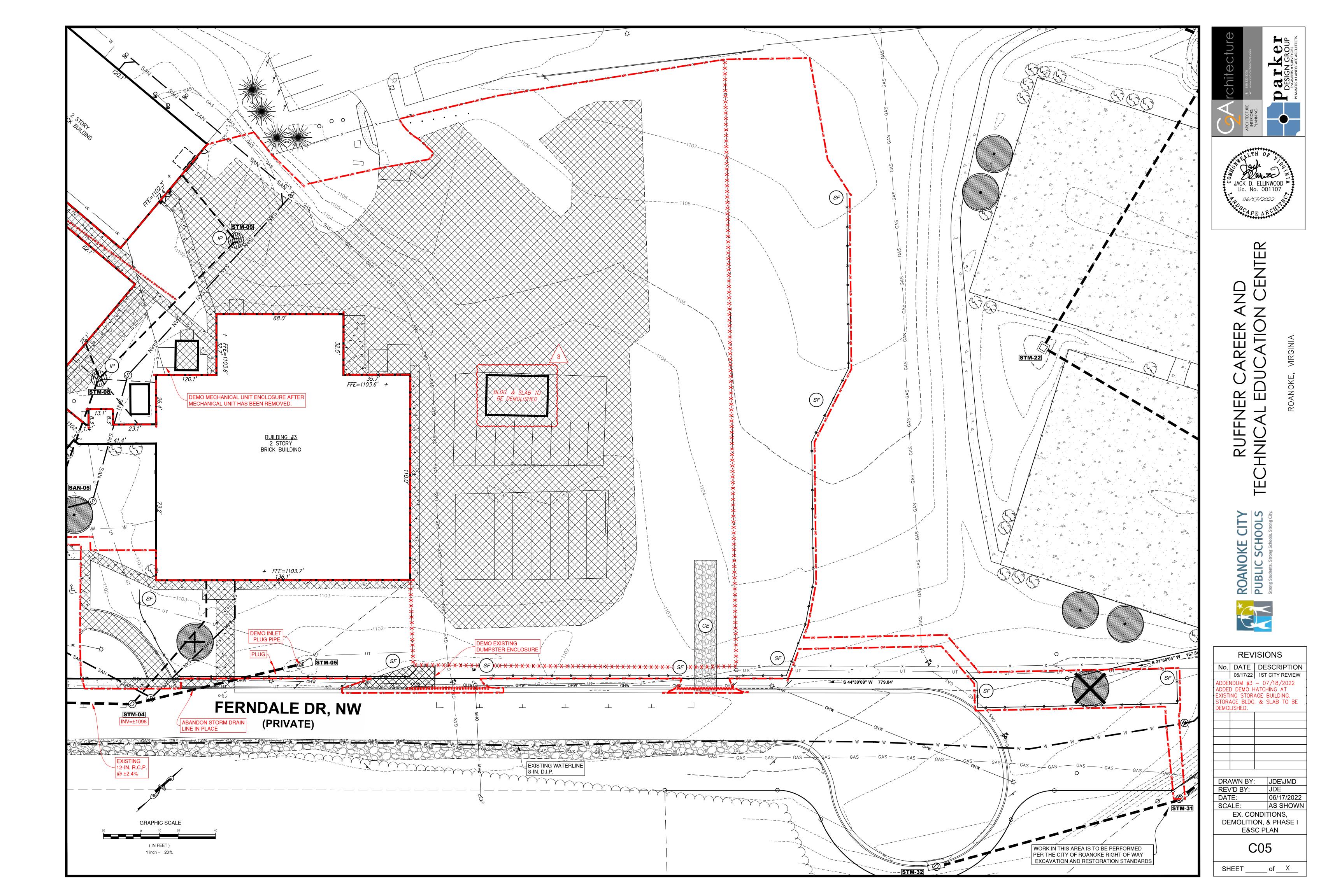


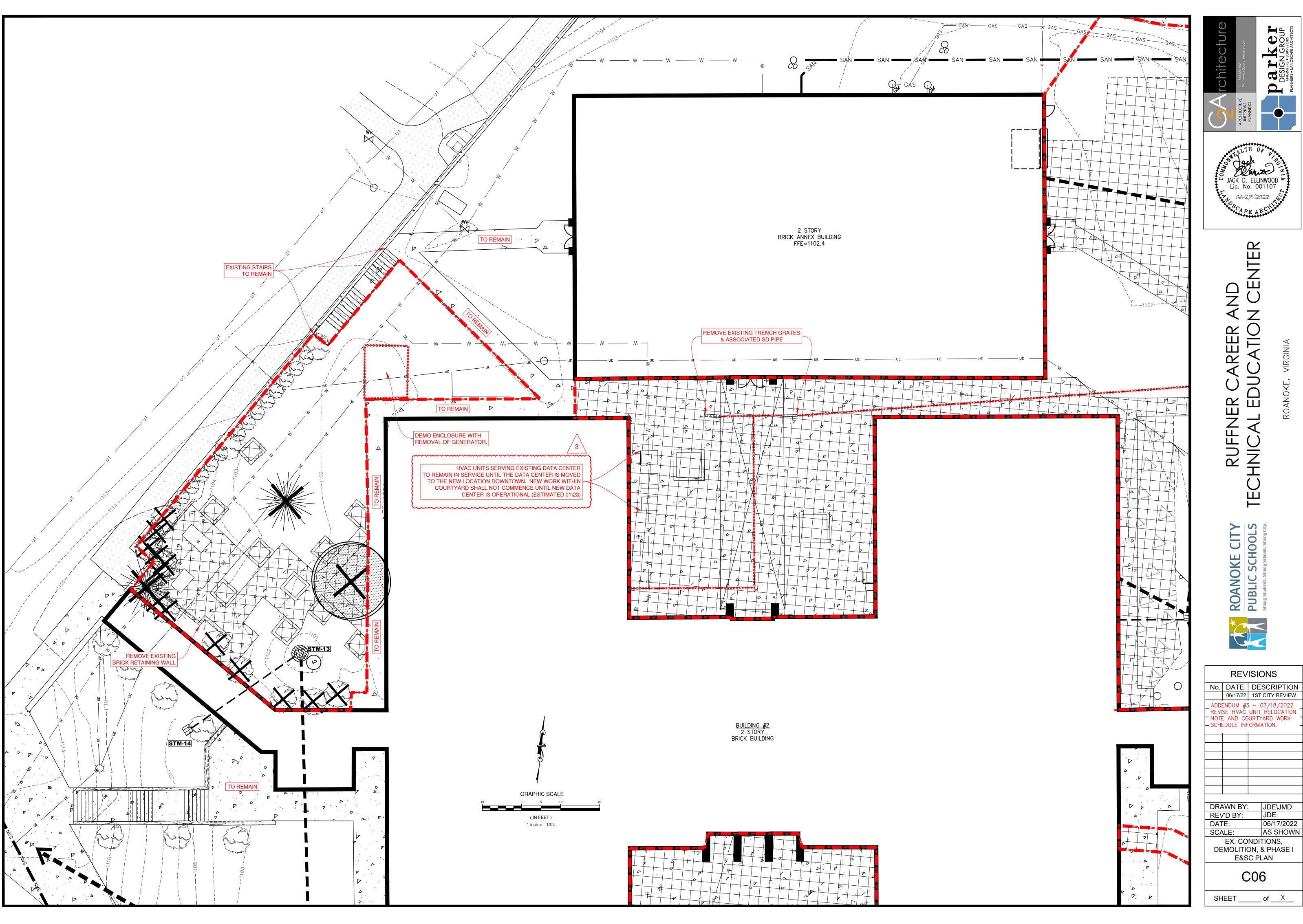
							INDEX OF DRAWINGS
		PLUMBING	(	1		FA002	FIRE ALARM ROOM DESIGN DATA
1	) P0.1	PLUMBING LEGEND AND SCHEDULES	$\rightarrow$		$\rightarrow$	FA101.	BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
<	) P1.1	GROUND FLOOR OVERALL PLUMBING NEW WORK PLAN	$\rightarrow$		$\rightarrow$	1 FA101.	– AREA 1 BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
	) P1.2	SECOND FLOOR OVERALL PLUMBING NEW WORK PLAN	-		$\rightarrow$	2	- AREA 2 BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PL/
1	) P2.1	GROUND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA A	(		$ \downarrow $	3	- AREA 3
1 <	) P2.2	GROUND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA B		1	$\leq$	FA101.	BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PL/ - AREA 4
1 <	) P2.3	GROUND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA C	$\left\langle \right\rangle$	1	$\left\{ \right\}$	FA101. 5	BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PL
1	) P2.4	GROUND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA D	$\left\langle \right\rangle$			FA101.	BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PL
< 1	) P2.5	GROUND FLOOR PARTIAL PLUMBING NEW WORK PLAN – AREA E		1	$\overline{}$		BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PL
1	)	GROUND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA F					- AREA 7 BUILDING 2 & 3 GROUND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
1	) \			1	$\prec$	8	
· <	)	GROUND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA G	$\rightarrow$		<u> </u>		BUILDING 2 & 3 GROUND FLOOR OVERALL FIRE ALARM PLAN BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
<	) P3.1	SECOND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA A		1	$ \rightarrow $	1	- AREA 1
1 1	) P3.2	SECOND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA B	$\geq$		$\leq$	FA102. 2	BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PLA - AREA 2
1 <	) P3.3	SECOND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA C	$\left\langle \right\rangle$		)		BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PLA - AREA 3
1 <	) P3.4	SECOND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA D		1	$\overline{}$	FA102.	BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
1 <	) P3.5	SECOND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA E					BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
1	) ) P3.6	SECOND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA F	$\rightarrow$		$\rightarrow$		– AREA 5 BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
1	у \	SECOND FLOOR PARTIAL PLUMBING NEW WORK PLAN - AREA G	$\rightarrow$		$\rightarrow$		– AREA 6 BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PLA
	)		<u> </u>			7	- AREA 7
	)	GROUND FLOOR ENLARGED PLUMBING NEW WORK PLAN - AREA D			<u>)</u>	FA102. 8	BUILDING 2 & 3 SECOND FLOOR FIRE ALARM ENLARGED PARTIAL PL
	) P5.1	PLUMBING DETAILS		1	$\Big)$	FA102	BUILDING 2 & 3 SECOND FLOOR OVERALL FIRE ALARM PLAN
<	)	ELECTRICAL	$\langle$	1	$\overline{\langle}$	FA103	FIRE ALARM ROOF PLAN
1 /		ELECTRICAL LEGEND, GENERAL NOTES & ABBREVIATIONS		1	$\overline{\langle}$	FA301	FIRE ALARM DETAILS
	)	LIGHTING FIXTURE SCHEDULE	$\rightarrow$	1	$\rightarrow$	FX001	FIRE SUPPRESSION CODE DATA
1	)	FIRST FLOOR PLAN	$\rightarrow$	1	$\rightarrow$		BUILDING 2 & 3 GROUND FLOOR OVERALL FIRE SUPPRESSION PLAN
	)	FIRST FLOOR PLAN		1	$\rightarrow$		
< 1	) E-203	SECOND FLOOR PLAN	$\overline{-}$		$\rightarrow$		BUILDING 2 & 3 SECOND FLOOR OVERALL FIRE SUPPRESSION PLAN
1 <	) E-204	FIRST FLOOR PLAN		1		FX201	FIRE SUPPRESSION DETAILS
1 <	E-301	FIRST FLOOR PLAN	<u> </u>				
1 <	E-302	FIRST FLOOR PLAN					FOOD SERVICE DRAWINGS
1 <	E-303	SECOND FLOOR PLAN				K100	KITCHEN FLOOR PLAN
1		SECOND FLOOR PLAN				K200	KITCHEN EQUIPMENT PLAN
1 <	∧	ENLARGED KIJCHEN PLAN	$\sum$			K300	CULINARY ARTS ELEVATIONS
1	∕	ROOF POWER PLAN	$\overline{}$			K400	CULINARY ARTS PLUMBING ROUGH-INS CONNECTION SCHEDULE
1	<u> </u>	ROOF POWER PLAN					CULINARY ARTS PLUMBING ROUGH-INS CONNECTION SCHEDULE
 		FIRST FLOOR PLAN					
1	/	SECOND FLOOR PLAN					CULINARY ARTS SPECIAL CONDITIONS AND DETAILS
<	/ \	SECOND FLOOR PLAN				K700	CULINARY ARTS EXHAUST HOOD DETAILS
1	/	ELECTRICAL ONE LINE NEW WORK PLAN				K800	CULINARY ARTS EXHAUST HOOD FIRE SUPPRESSION SYSTEM
< 1 _<	) E-502	PANEL SCHEDULES				K900	CULINARY ARTS UTILITY DISTRIBUTION SYSTEMS AND DETAILS
1 <	E-503	PANEL SCHEDULES					
1 <	E-504	PANEL SCHEDULES					
1 <	E-505	PANEL SCHEDULES					
1 <	) E-506	PANEL SCHEDULES					
1 <	) E-507	PANEL SCHEDULES					
1 <	) E-508	PANEL SCHEDULES					
< <	)	FIRE PROTECTION/LIFE SAFETY					
1 <	/ G-001	CODE DATA SHEET					
1 <	)	BUILDING 2 & 3 GROUND FLOOR LIFE SAFETY PLAN					
1 <	) G-102	BUILDING 2 & 3 SECOND FLOOR LIFE SAFETY PLAN					
	) G-103	ARCHITECTURAL LIFE SAFETY SITE PLAN					
		FIRE ALARM CODE DATA					

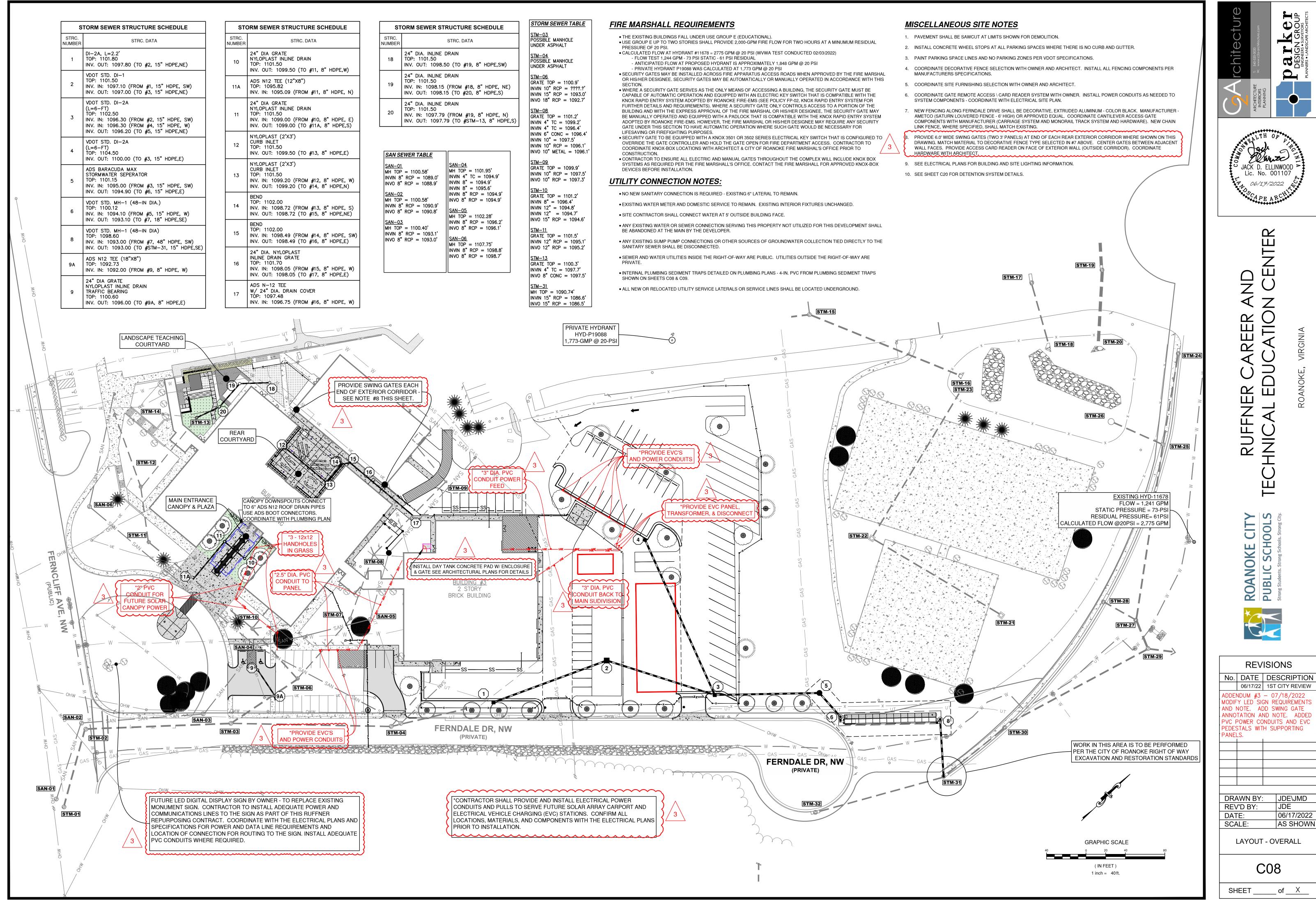
## INDEX OF DRAWINGS



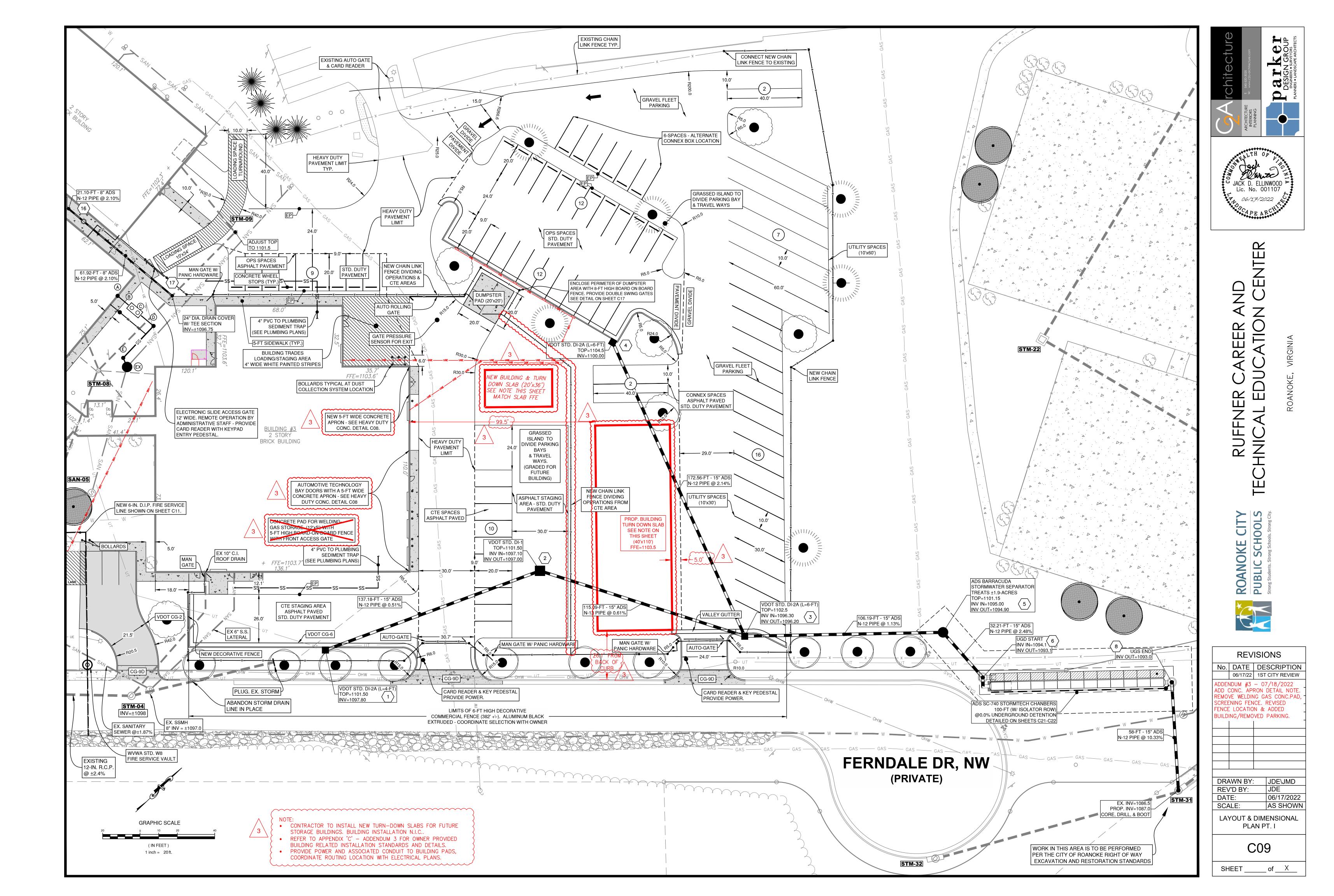


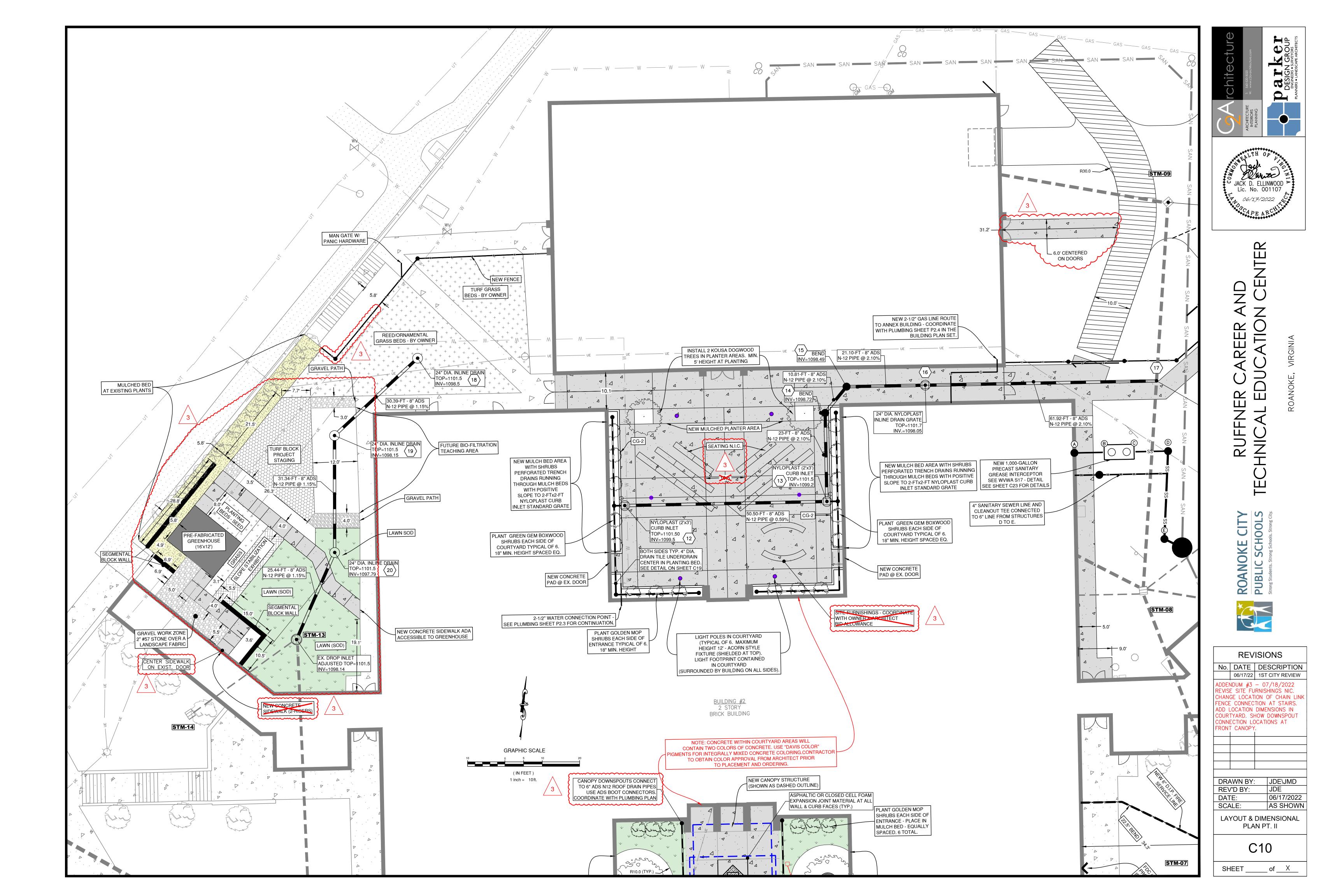


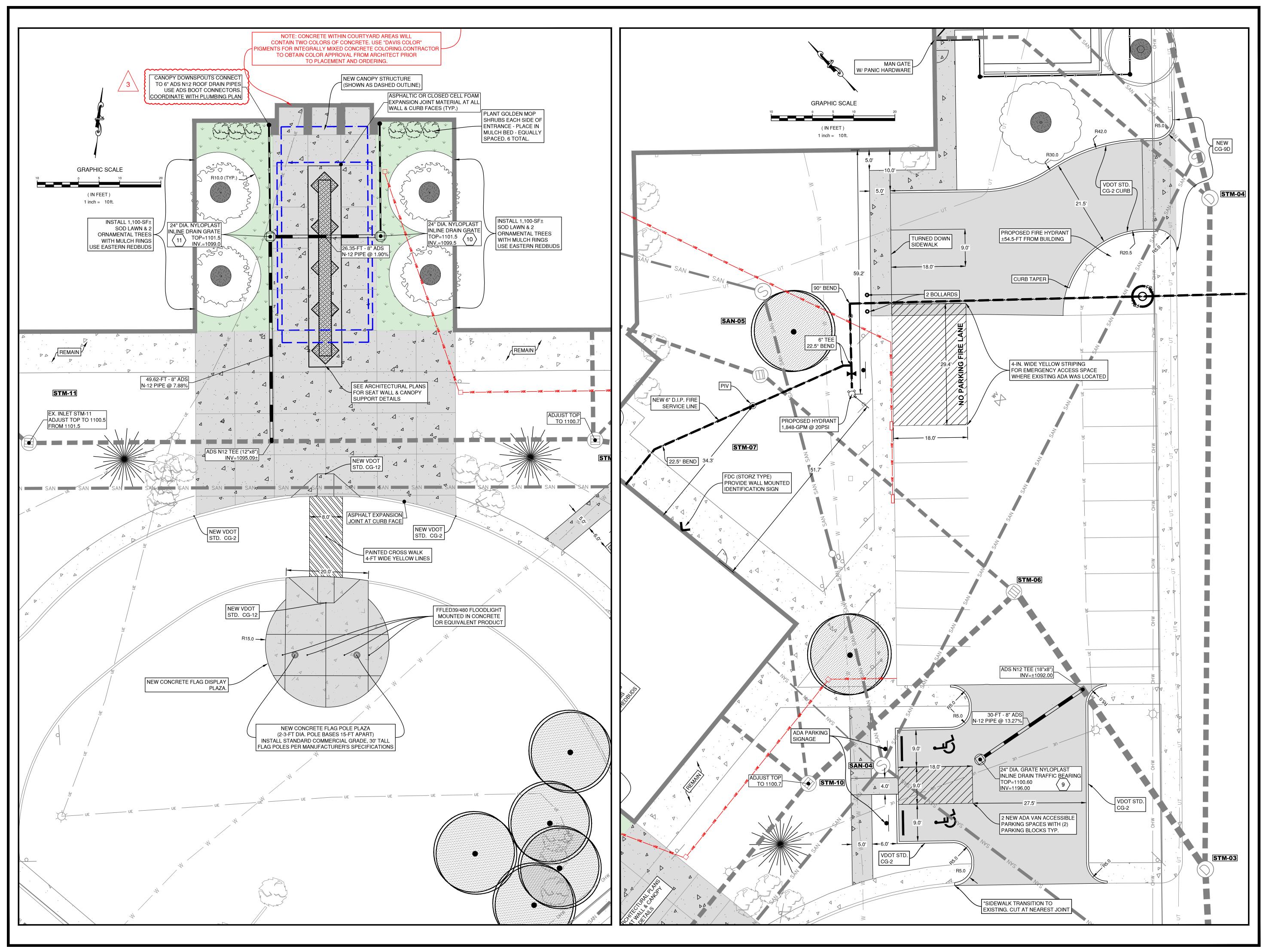




	REVISIONS						
No.	DATE	DE	SCRIPTION				
	06/17/22	1ST	CITY REVIEW				
ADDEN	NDUM #3	- 07	7/18/2022 EQUIREMENTS				
MODIF	Y LED SI	GN RI	EQUIREMENTS				
ΑΝΟ Ι ΔΝΝΟ	ΝΟΤΈ. ΑΙ ΤΔΤΙΩΝ ΔΙ	יצ טנ א חא	WING GATE				
	ANNOTATION AND NOTE. ADDED - PVC POWER CONDUITS AND EVC						
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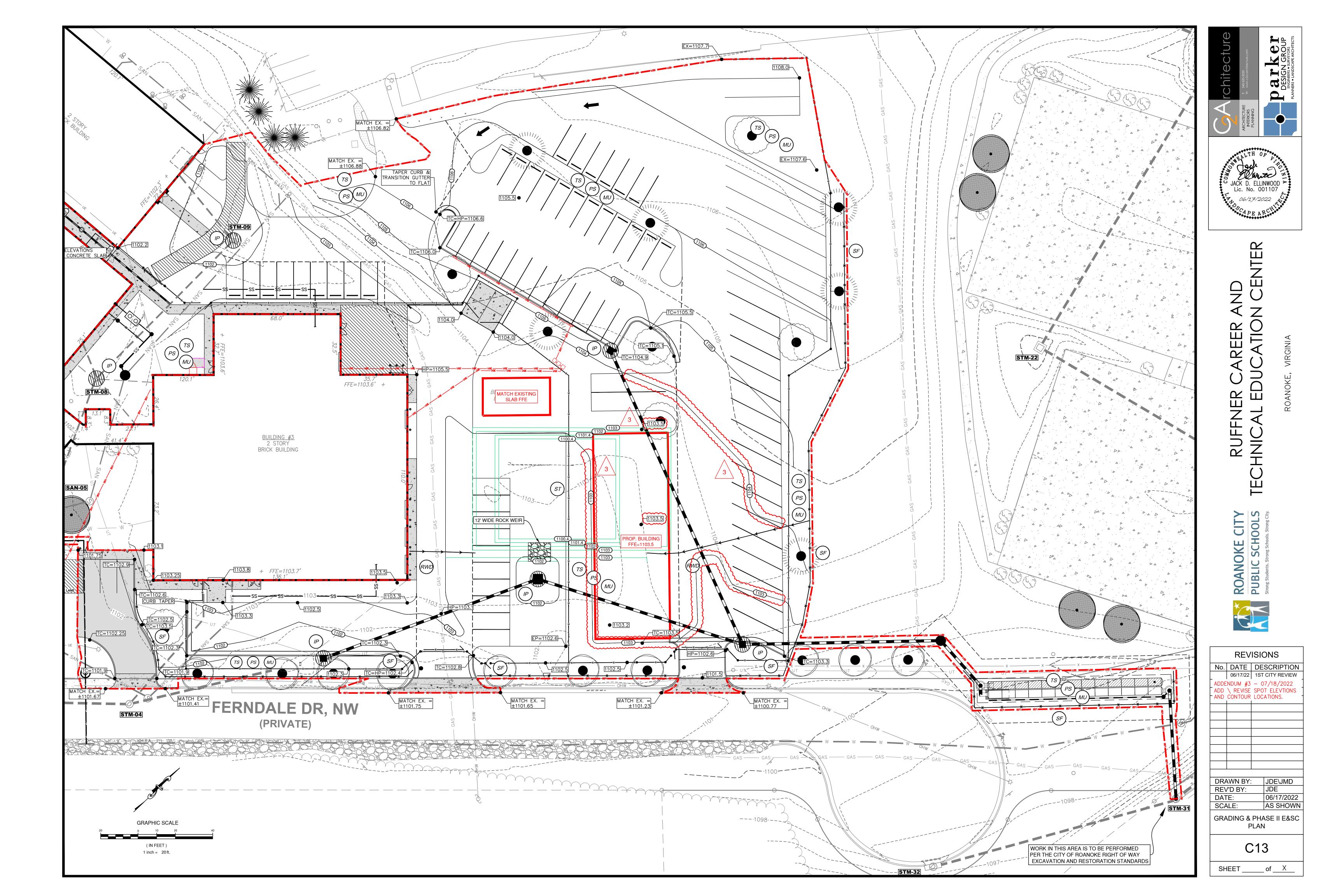


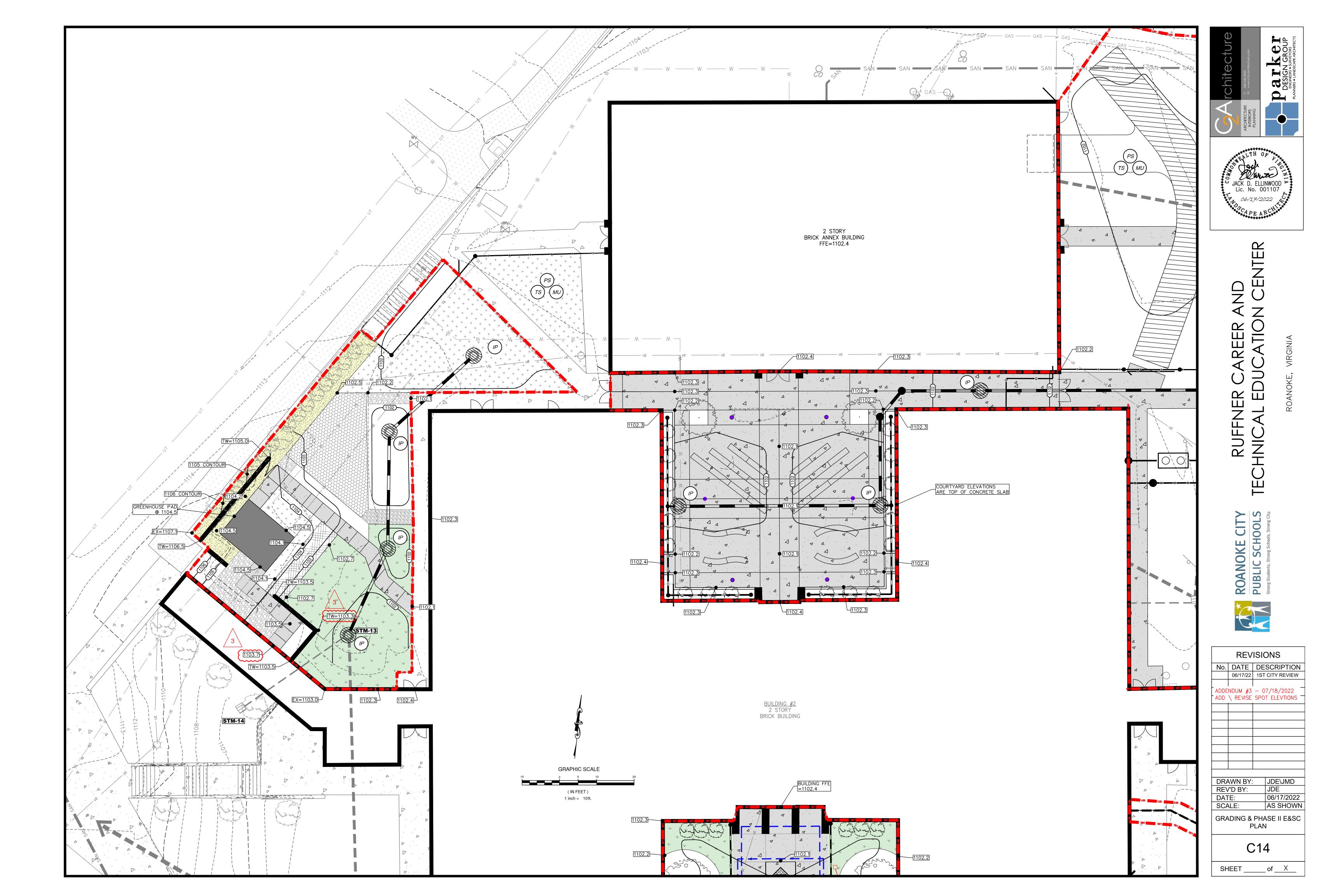






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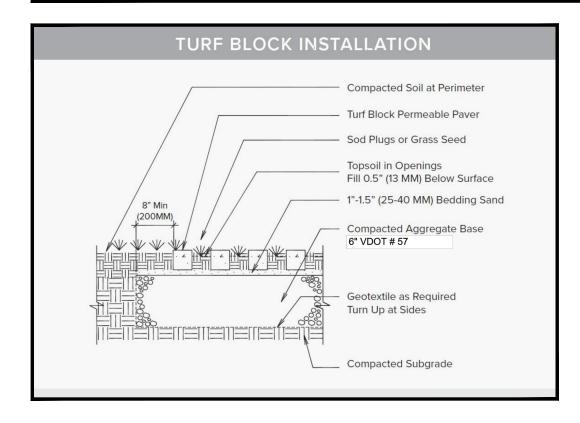




	KEY	CATEGORY	SCIENTIFIC NAME	COMMON NAME	SIZE (MIN.)	QUANTITY (Ea)	20-YR CANOPY (SF)	CANOPY (SF)	ТҮРЕ	NOTES
	ER	ORNAMENTAL	Cercis canadensis	EASTERN REDBUD	2" caliper	4			DECIDUOUS	BALL & BURLA
	KD	ORNAMENTAL	Cournus kousa	KOUSA DOGWOOD	2" caliper	4			DECIDUOUS	BALL & BURLA
	РО	DECIDUOUS	Quercus palustris	PIN OAK	2" caliper	10	254	2540	DECIDUOUS	BALL & BURLA
	RM	DECIDUOUS	Acer rubrum	RED MAPLE	2" caliper	6	314	1884	DECIDUOUS	BALL & BURLA
5	HL	DECIDUOUS	Gleditsia triacanthos "Shademaster"	HONEY LOCUST "SHADEMASTER"	2" caliper	6	314	1884	DECIDUOUS	BALL & BURL
Ī							TOTAL CANOPY	6308		
	GM	SHRUB	Chamaecyparis pisifera	JAPANESE FALSECYPRESS	24" MIN.	13			EVERGREEN	5 GAL CONT
	GG	SHRUB	Buxus 'Green Gem'	BOXWOOD	24" MIN.	12			EVERGREEN	5 GAL CONT

ALL PLANTINGS TO BE IN SHREDDED PINE BARK MULCH BED OR RINGS AS SHOWN.

REQUIRED PARKING AREA LANDSCAPING PER 36.2 - 648 = 20% CANOPY FOR EXPANDED PARKING AREA EXPANDED PARKING AREA = 29,500 S.F. X 0.2 = 5900 S.F. CANOPY REQUIRED PARKING AREA CANOPY PROVIDED = 6,308 S.F.



### SOIL REQUIREMENTS AND AMENDMENTS:

- PROPERLY
- PH 5.5 TO 6.5 ORGANIC MATTER: 5% PHOSPHATE: 50 LB./ACRE

### POTASH: 120 LB./ACRE 2. AMENDMENTS

TO THE INTENDED PLANTING

- B. SYNTHETIC FERTILIZERS, IF PREFERRED BY THE CONTRACTOR, SHOULD BE SPECIFIED TO PR0V1DE THE NUTRIENTS AS REQUIRED BY THE SOIL TEST. THEY SHOULD BE DELIVERED TO THE JOB SITE IN THEIR ORIGINAL PACKAGING WITH LEGIBLE, INTACT LABELS INDICATING NUTRIENT CONTENT AND SOURCE. LABELS SHOULD BE CHECKED PRIOR TO USE AND A SAMPLE MAY BE REQUESTED FOR LABORATORY ANALYSIS.
- VERIFICATION
- LABORATORY ANALYSIS
- INSTRUCTIONS.

### PLANTING AND LANDSCAPE SPECIFICATIONS:

- 2. ALL TREES OF THE SAME SPECIES SHALL BE UNIFORM IN SIZE AND STRUCTURE AND SHALL COME FROM THE SAME SOURCE.
- SOCIETY OF LANDSCAPE DESIGNERS.
- ARRIVAL TO SITE.
- TREES, SHRUBS, AND GROUNDCOVERS: 6.1. SEPTEMBER 15 TO DECEMBER 1 OR 6.2. MARCH 1 TO MAY 1.
- BE AS RECOMMENDED BY VCIA.

- 12. WATERING OF PLANTS: WATERING IS TO PROVIDE V1GOROUS PLANT GROWTH AND SHALL BE SUFFICIENT TO MAINTAIN MOISTURE IN THE ENTIRE ROOT ZONE.
- REMOVE AIR POCKETS AND SATURATE THE SOIL. 12.2. WATERING SHALL CONTINUE EACH DAY FOR ONE WEEK FROM INSTALLATION AT A RATE OF 2 GALLONS PER INCH TREE CALIPER. PER INCH OF TREE CALIPER.
- PROPER LAYOUT PLACEMENT, AND EXHIBIT A HEAL THY VIGOROUS GROWTH.
  - NEXT PLANTING SEASON WHICHEVER IS SOONER. CARE AND MEET SPECIFICATIONS.
- 13.3. WARRANTY SHALL BE LIMITED TO ONE REPLACEMENT PER PLANT.
- SOIL AND EXISTING SOIL.

- PROVIDED WITH STRUCTURAL SOIL MIX.

ARBOR-TIE;

BIODEGRADEABLE WEBBING

BELOW GRADE

- REMOVE TOP 1/3 OF BURLAP

(REMOVE ALL SYNTHETIC BURLAP, REMOVE ALL METAL

— 3" MULCH LAYER

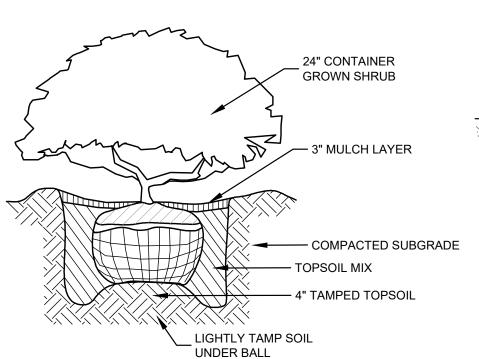
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AMENDED SOIL (SEE NOTE F.)

BASKET MATERIALS)

- DO NOT PRUNE CANOPY

PLANTS ARE FULLY ESTABLISHED, 2 YEARS.







### TREE PLANTING DETAIL

EQUAL

SPACING

EQUAL

SPACING

- LEAVE SOLID SOIL PEDESTAL UNDER ROOTBALL

NOT TO SCALE

A. SOIL FOR PLANTING BEDS SHOULD BE DOUBLE-DUG 6 TO 8 INCHES DEEP. PRIOR TO SOIL PREPARATION, A REPRESENTATIVE SAMPLE SHOULD BE TAKEN FROM EACH AREA AND ANALYZED AT A UNIVERSITY OR COMMERCIAL SOIL TESTING LABORATORY, TOP SOIL SHOULD BE DRY, LOOSE, AND FREE OF DEBRIS, WHERE HARDPAN EXISTS BENEATH THE PREPARED BED, DEEPER PREPARATION MAY BE SPECIFIED. THE LANDSCAPE CONTRACTOR SHOULD IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OR LANDSCAPE DESIGNER IF ANY BEDS DO NOT DRAIN

B. A REPRESENTATIVE SOIL SAMPLE SHOULD BE TESTED FOR PH, ORGANIC MATTER CONTENT, POUNDS PER ACRE AVAILABLE P205 (PHOSPHATE) AND POUNDS PER ACRE AVAILABLE K20 (POTASH). BASED ON THE LABORATORY REPORT, THE SOIL SHOULD BE AMENDED TO THE FOLLOWING MINIMUM STANDARDS, UNLESS OTHERWISE NOTED:

A. ORGANIC MATTER SHALL BE COMPOST, OR LOCALLY AVAILABLE ORGANIC WASTE. ORGANIC MATTER SHOULD BE FREE FROM DEBRIS, WEED SEEDS, AND INSECTS WHICH MAY BE HARMFUL

C. NATURAL FERTILIZERS INCLUDE MINERALS, SUCH AS ROCK PHOSPHATE OR GREENS AND AS WELL AS THOSE USUALLY MARKETED AS ORGANIC . WHEN THESE SOURCES OF NUTRIENTS ARE PREFERRED THEY SHALL BE SPECIFIED IN TYPE AND QUANTITY TO PROVIDE THE NUTRIENTS AS SHOWN NECESSARY BY THE LABORATORY SOIL TEST. STANDARDIZED, COMMERCIAL FERTILIZERS SHALL BE DELIVERED TO THE SITE IN THEIR ORIGINAL PACKAGING WITH LEGIBLE INTACT LABELS SHOWING NUTRIENT ANALYSIS. WHERE NON-COMMERCIALLY PROCESS MANURE OR OTHER ORGANIC WASTE IS SPECIFIED FOR ITS ASSUMED NUTRIENT CONTENT. SAMPLES MUST BE SUBMITTED BY THE LANDSCAPE CONTRACTOR TO A COMMERCIAL LABORATORY FOR ANALYSIS SO THE NUTRIENT LEVELS CAN BE ASSESSED PRIOR TO APPLICATION AND A PROPER APPLICATION RATE CAN BE DETERMINED.

D. SULFUR, WHERE REQUIRED TO LOWER PH, MAY BE SPECIFIED AS EITHER GROUND SULFUR (FLOWERS OF OR IRON SULFATE WHERE TOXICITY IS NOT A PROBLEM. THE LANDSCAPE CONTRACTOR SHALL DELIVER THE SULFUR TO THE SITE IN ITS ORIGINAL CONTAINER WITH LEGIBLE LABEL INDICATING ITS QUALITY. A SAMPLE MAY BE REQUIRED FOR LABORATORY

E. LIMESTONE SHALL BE EITHER GROUND AGRICULTURE LIMESTONE OR DOLOMITE LIMESTONE WHERE MAGNESIUM DEFICIENCIES EXIST. LIMESTONE PROVIDED AT THE SITE BY THE LANDSCAPE CONTRACTOR SHALL BE PROVIDED IN THE ORIGINAL PACKAGING, LEGIBLY LABELED WITH FINENESS AND LIMING ABILITY SHOWN. A SAMPLE MAY BE REQUESTED FOR

F. STALITE PERMATILL, CU SOIL, OR APPROVED EQUAL STRUCTURAL SOIL HORTICULTURAL AMENDMENT TO BE USED TO CONDITION TREE HOLE. BACKFILL IN ACCORDANCE WITH SUPPLIER'S

1. ALL TREES SHALL BE PLANTED IN GOOD CONDITION AND MEET 'AMERICAN STANDARD FOR NURSERY STOCK' ANSI 260.1-1990, AS MAY BE AMENDED.

3. THE PLANTING OF TREES SHALL BE DONE IN ACCORDANCE WITH THE STANDARDIZED LANDSCAPE SPECIFICATION JOINTLY ADOPTED BY THE VA NURSERYMAN'S ASSOCIATION AND THE VA

4. REFER TO DRAWINGS FOR VARIETIES, LAYOUT, AND SPACING OF PLANT MATERIALS. HAVE TREE LOCATIONS STAKED AND GROUNDCOVER BEDS PREPARED AND SPRAY-PAINT OUTLINED ON THE GROUND FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO PLANT INSTALLATION. QUANTITIES SHOWN ON DRAWINGS SHALL TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT LIST. FIELD ADJUSTMENTS NECESSARY TO WORK AROUND UNKNOWN UTILITIES MAY BE REQUIRED.

5. ALL PLANT MATERIALS MUST BE APPROVED AND INSPECTED BY OWNER'S REPRESENTATIVE AND ACCEPTED PRIOR TO INSTALLATION. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO

6. PLANTING TIMING: UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER'S REPRESENTATIVE, THE PLANTING SHALL BE DONE DURING THE FOLLOWING SEASONS FOR ALL

6.3. PLANTING AT OTHER DATES WILL BE SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE AND MAY REQUIRE SPECIAL PROCEDURES.

7. ALL DISTURBED AREAS NOT OTHERWISE TREATED, ARE TO BE SEEDED AS SPECIFIED.

8. SEED MIX AREAS SHALL BE SEEDED WITH A SEEDING MIXTURE CONSISTING OF 90% TALL FESCUES (IMPROVED VARIETIES) AND 10% PERENNIAL RYEGRASS (IMPROVED VARIETIES) AS RECOMMENDED ON THE MOST CURRENT VIRGINIA CROP IMPROVEMENT ASSOCIATION (VCIA) TURFGRASS LIST. CERTIFIED SEED WILL BE USED FOR ALL PERMANENT SEEDING. SEEDING AREAS SHALL BE PREPARED IN ACCORDANCE WITH THE ABOVE CITED SPECIFICATION INCLUDING NECESSARY SOIL AMENDMENTS. THE RA TIE OF COVERAGE FOR BOTH SEED AND AMENDMENTS SHALL

### 9. MOVE AND LIFT TREES, SHRUBS, AND PLANTS BY THE ROOTBALL ONLY AND NEVER BY THE TRUNK OR STALK.

10. IF SYNTHETIC OR METAL WRAPPING IS USED ON ANY ROOTBALL, REMOVE IT ENTIRELY BEFORE PLANTING. METAL CAGES MUST ALSO BE REMOVED ENTIRELY FROM THE ROOTBALL. 11. CUT, TRIM AND REMOVE THE TOP 6"-9" OF NATURAL BURLAP WRAPPING FROM ROOTBALL PRIOR TO FINAL PLANTING SOIL BACKFILLING.

12.1. WATERING OF PLANT MATERIAL SHALL OCCUR IMMEDIATELY AFTER PLANTING AND WITHIN IN 24 HOURS OF INSTALLATION. THE FIRST WATERING SHALL FLOOD THE PLANTING HOLE TO

12.3. AFTER THE FIRST WEEK OF WATERING, WATERING SHALL CONTINUE ON A WEEKLY BASIS UNTIL PLANTS ARE FULLY ESTABLISHED. WEEKLY WATERING SHALL BE AT A RATE OF 2 GALLONS

13. UNLESS OTHERWISE DIRECTED IN THE SPECIFICATIONS, ALL PLANTS SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF ONE YEAR BEGINNING FROM THE DATE OF INSPECTION BY THE OWNER'S REPRESENTATIVE AND A WRITTEN FIELD REPORT STATING OWNER ACCEPTANCE FOR PLANTS THAT MEET QUALITY STANDARDS, PLANTING SPECIFICATIONS,

13.1. PLANTS THAT ARE EXHIBITING 25 PERCENT OR MORE DEAD GROWTH OR DO NOT MEET THE PLANT MATERIAL QUALITY SPECIFICATIONS SHALL BE REPLACED IMMEDIATELY OR UPON THE 13.2. NEW PLANTS, REQUIREMENTS, ETC. AND METHOD OF PLACING SHALL COMPLY WITH THESE SPECIFICATIONS AND DRAWINGS. PLANTS REPLACING DEAD PLANTS SHALL RECEIVE THE SAME

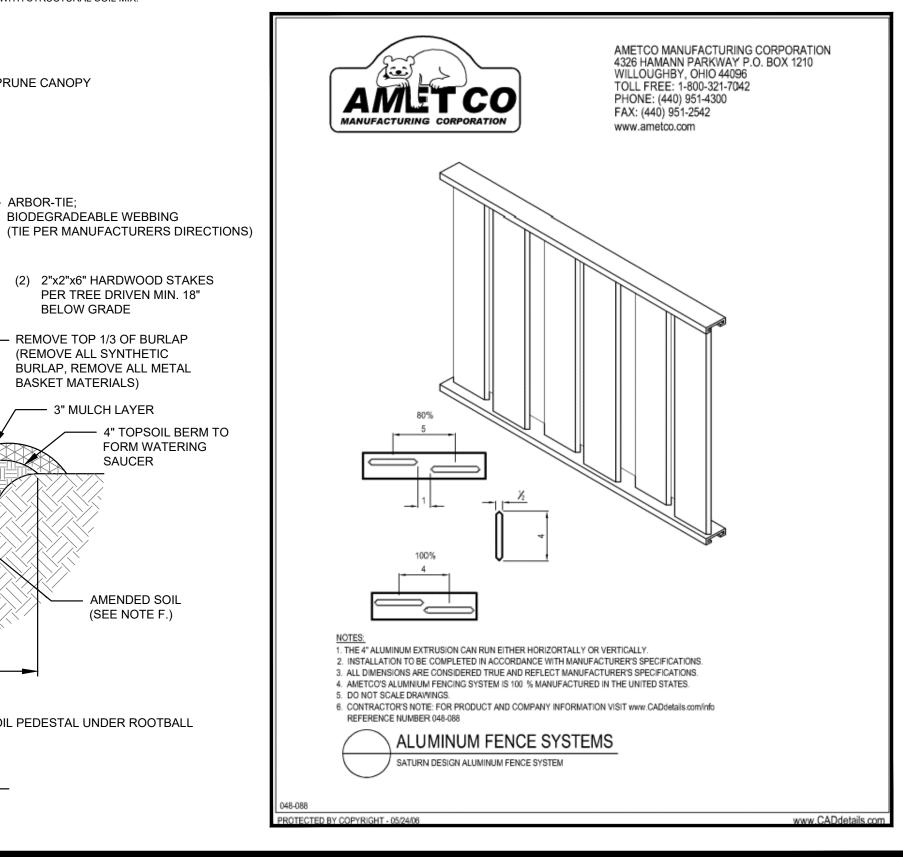
13.4. CONFORMANCE OF PLANTING LAYOUT TO PLANTING PLAN MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. PLANTS NOT PROPERLY LOCATED AS SHOWN ON THE PLANTING PLAN SHALL BE REPLANTED TO THE PROPER LOCATION AT THE EXPENSE OF THE CONTRACTOR.

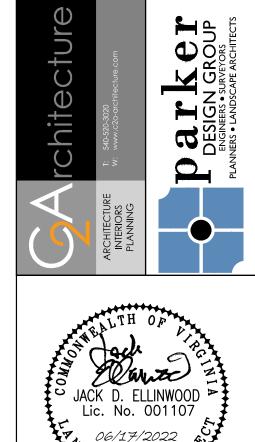
14. PLANTING HOLE SHALL BE 3 TIMES LARGER THAN THE SIZE OF THE ROOT BALL DIAMETER. SCARIFY BOTTOM AND EDGES OF PLANTING PIT SUFFICIENTLY TO ALLOW BONDING OF THE PLANTING

15. ALL PLANTS SHALL BE MULCHED WITH A 3" MULCH LAYER WITHIN 24 HOURS OF PLANTING. MULCH SHALL BE DOUBLE-SHREDDED HARDWOOD BARK MULCH AND SHALL COVER THE PLANTING BED ENTIRELY, EXCEPT FOR A ONE INCH CLEAR SPACE AROUND THE TRUNK SHALL REMAIN FREE FROM MULCH.

16. WATERING BERM: CONSTRUCT A 4" MIN. SOIL BERM AROUND EVERY TREE PLANTING, SAUCERS WILL BE ESTABLISHED AT PLANTING TO HOLD WATERING, SAUCERS ARE TO BE MAINTAINED UNTIL

17. TREE STAKING SHALL BE REQUIRED FOR PLANTS TALLER THAN 6 FEET AND WITH A TREE CALIPER GREATER THAN 1". USE TWO 3" DIA. OR 2"X2" WOOD STAKES, 6'-0" LENGTH. STAKES SHALL BE PLACED A MIN. OF 18" INTO ADJACENT GROUND. TREE GUYS SHALL BE "ARBORTIE", A UV DEGRADABLE NYLON WEBBING AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. 18. STRUCTURAL SOIL MIX, IF SHOWN, SHALL BE PREPARED AND INSTALLED IN ACCORDANCE WITH WRITTEN SPECIFICATIONS. ALL PLANTING AREAS (TREE PITS AND PLANTING BEDS) SHALL BE





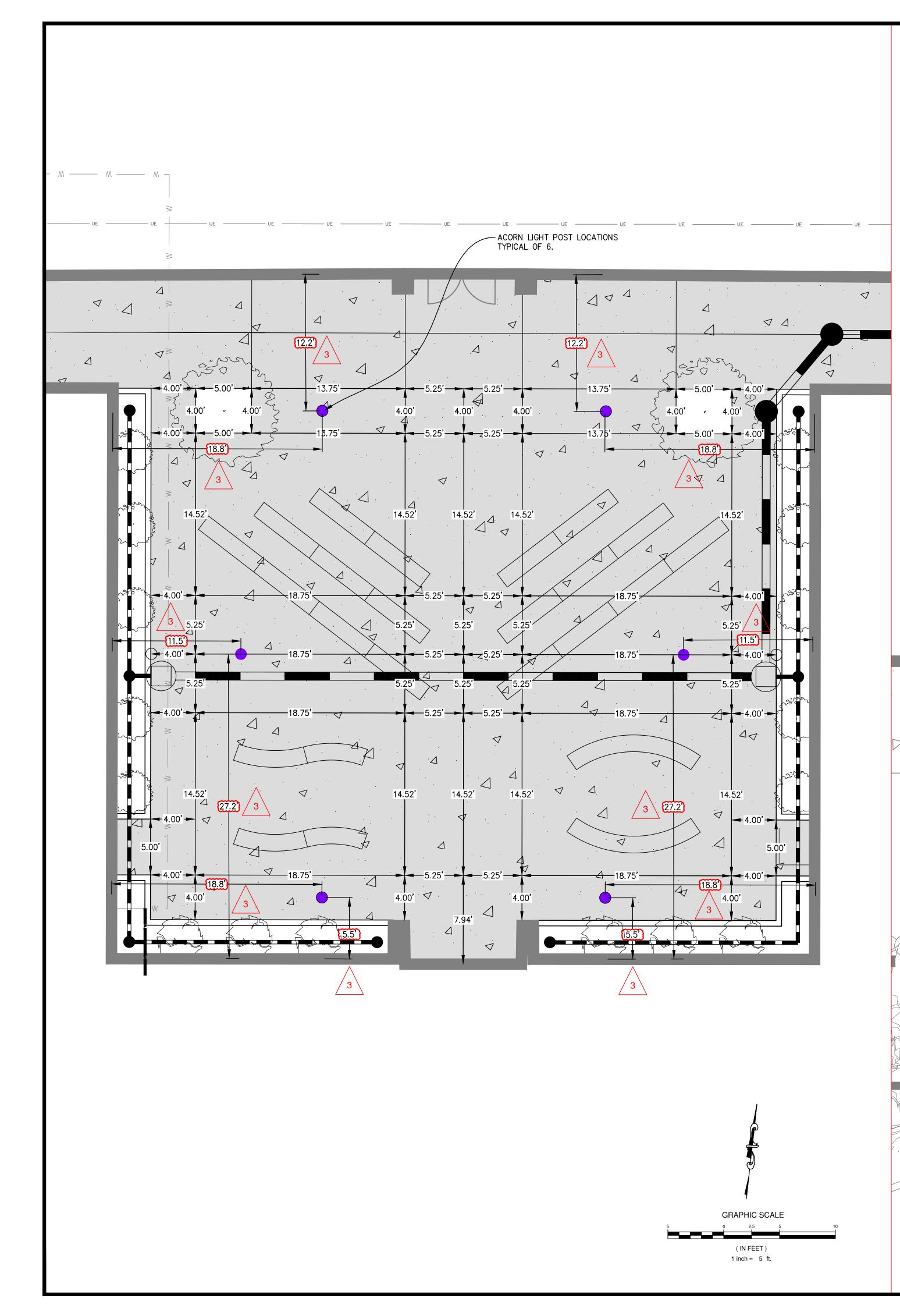
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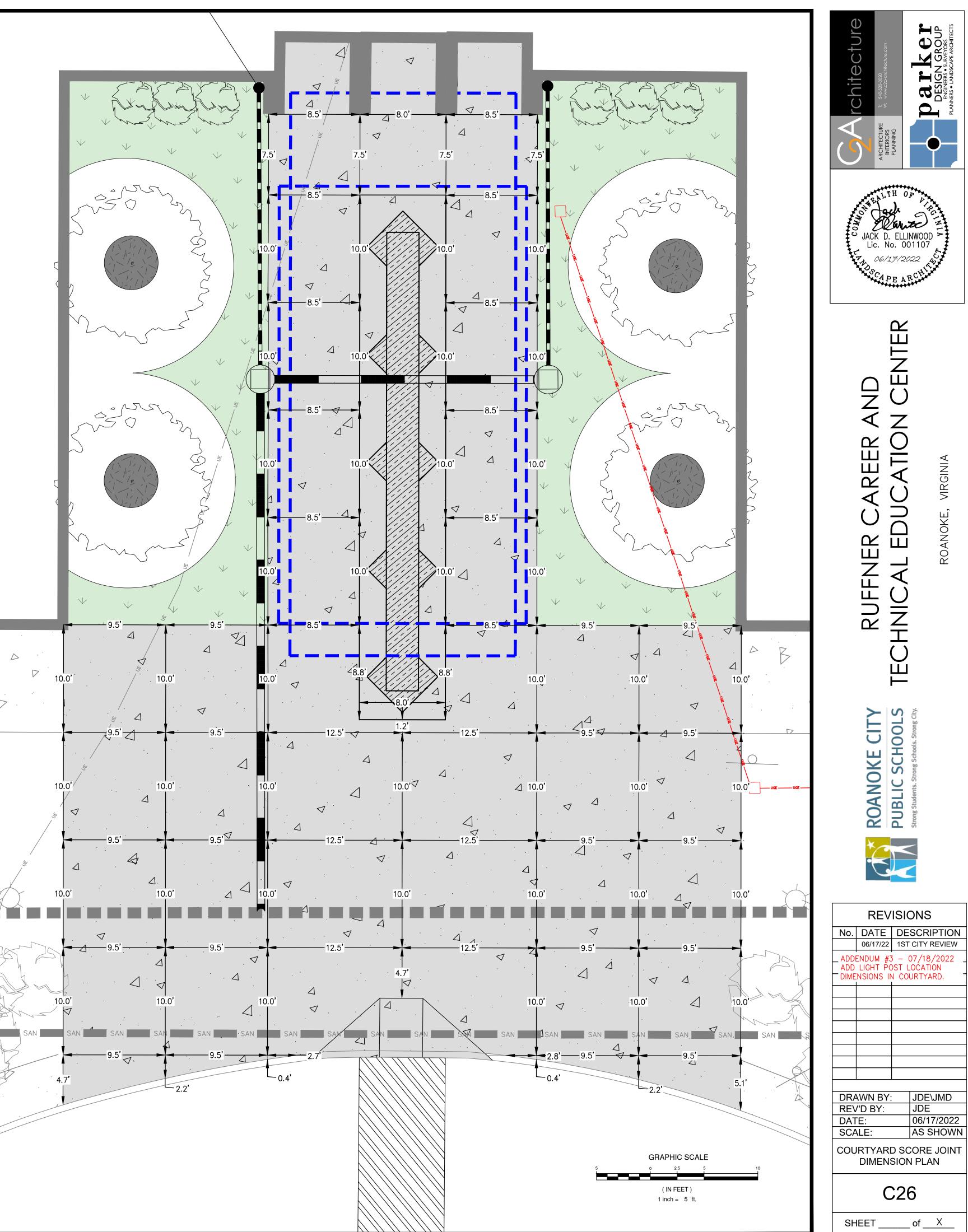


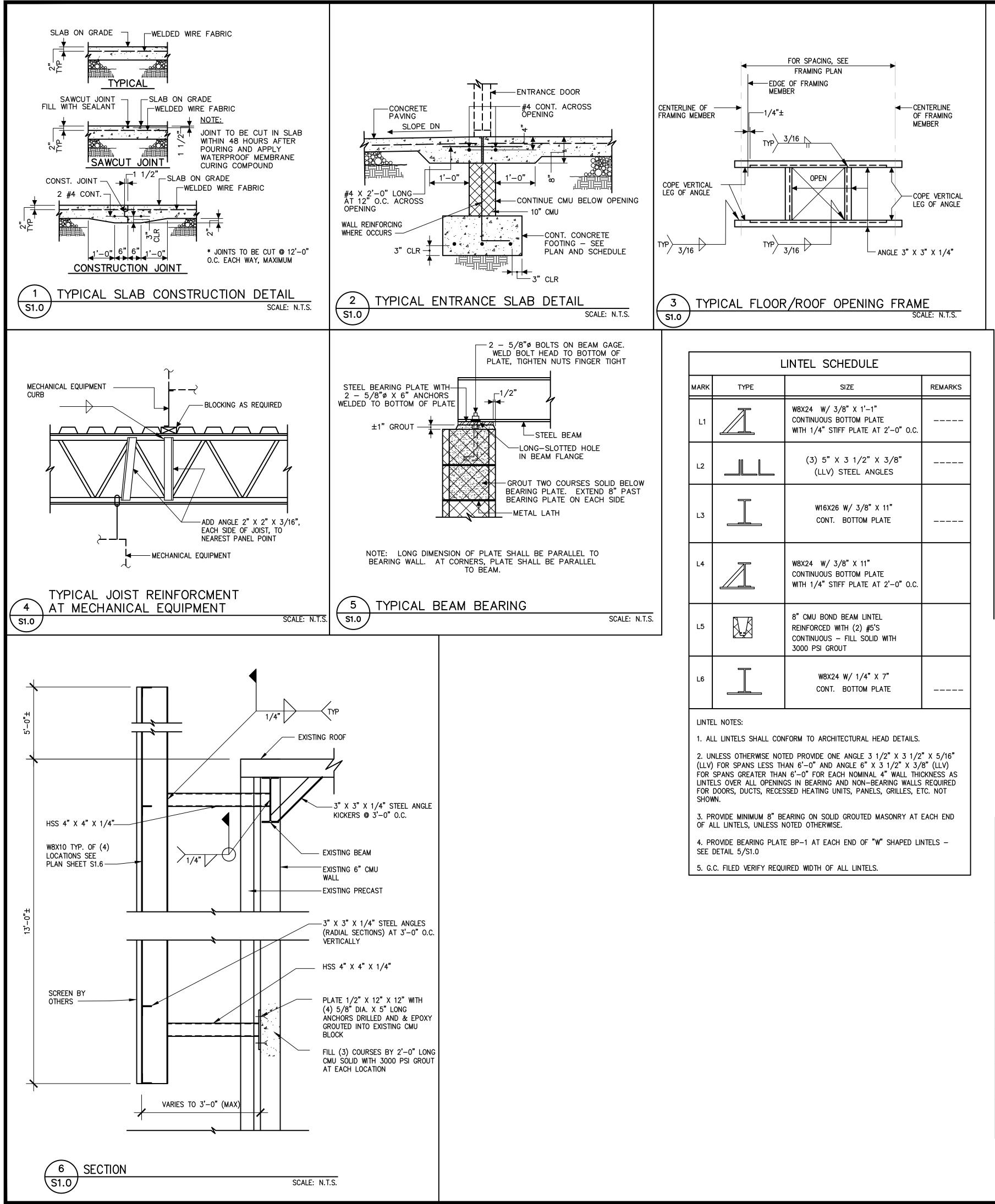




	REVISIONS						
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## SCHEDULES

### FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REN
F1	1'-0" X 4'-0" X 8'-0"	#5'S @ 12" E.W. TOP AND BOTTOM	
F2	1'-0" X 5'-0" X CONT.	<b>#5'S @</b> 12" E.W.	

### COLUMN SCHEDULE

				-	
	MARK	SIZE	BASEPLATE	ANCHOR BOLTS	REMAR
	C1	HSS 8" X 8" X 1/4"	3/4" X 14" X 14"	4 – 3/4"ø	NOTE
1					

### COLUMN NOTES:

1. PROVIDE ANCHORS BOLTS WITH 9" EMBEDMENT WITH 3" LEG.

2. PROVIDE 1/4" FILLET WELD ALL AROUND BASE PLATE.

3. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 KSI.

4. PROVIDE MINIMUM 3" ANCHOR BOLTS PROJECTION ABOVE TOP OF BASE PLATE.

5. PROVIDE 1/4" COLUMN CAP PLATES FOR ALL COLUMNS.

	PIER S	SCHEDULE					
MARK	SIZE	REINFORCING	REMAR				
P1	CONCRETE – 16" X 16"	12 #5'S VERTICAL #3 TIES AT 6" O.C.					
	PIER NOTES: 1. DOWEL ALL PIER REINFORCING TO FOUNDATIONS – TYPICAL.						

	BEARING PLATE SCHEDULE							
MARK	THICKNESS	WIDTH	LENGTH	REMARKS				
BP1	3/8"	8"	5"	NOTE 1				

BEARING PLATE NOTES:

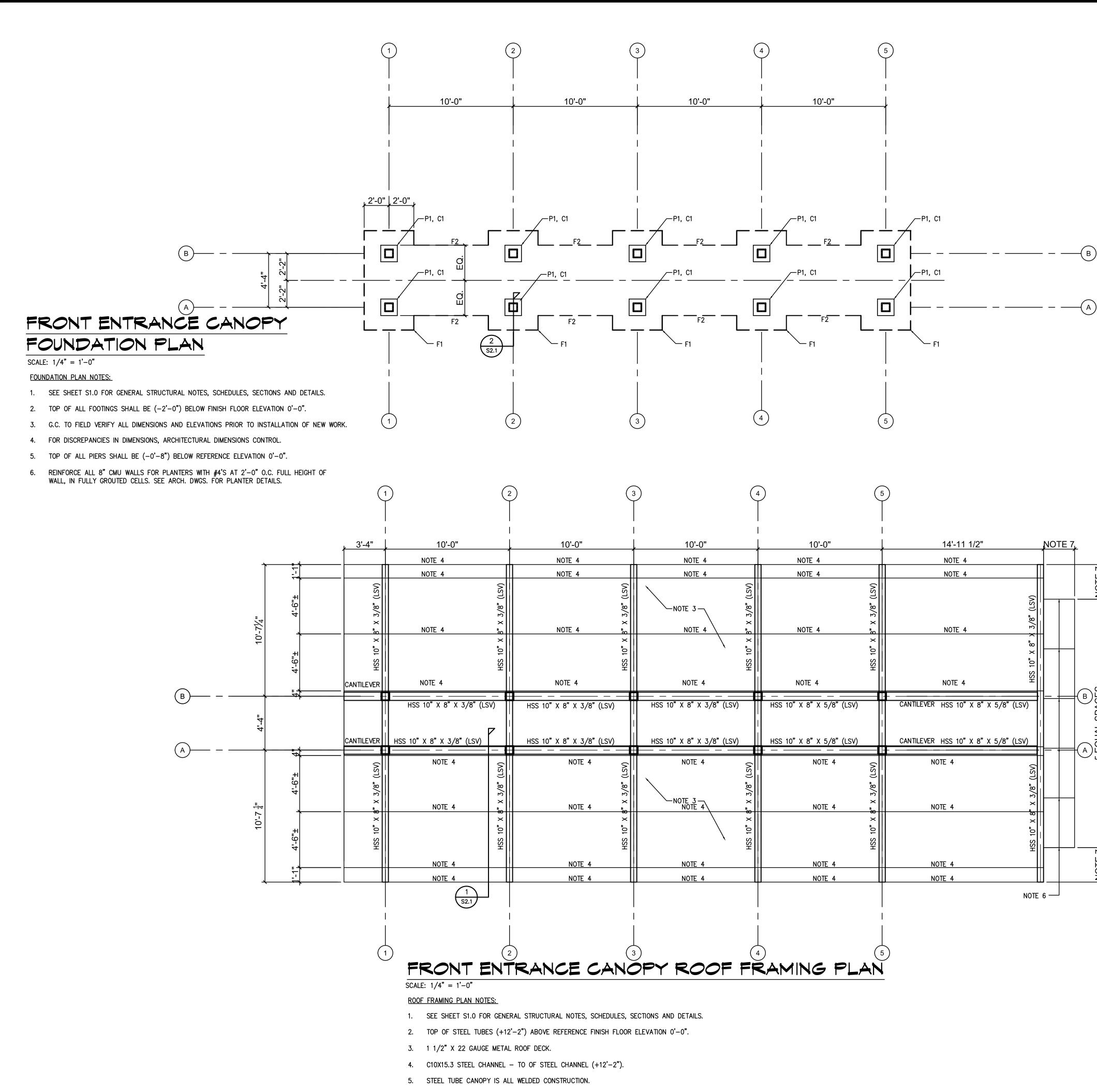
1. FILL (2) COURSES OF CMU SOLID WITH 3000 PSI GROUT BELOW BEARING PLATE. SEE SECTION 7/S1.0.

REBAR LAP LENGTHS						
BAR SIZE	LAP LENGTH (MIN.)	REMARKS				
#4	24"					
<b>#</b> 5	30"					
<b>#</b> 6	36"					
<b>#</b> 7	42"					
<b>#</b> 8	48"					
<b>#</b> 9	52"					
<u>notes:</u> 1. All Min						

	GENERAL STRUCTURAL NOTES	
	DESIGN LOADS:	
ARKS	ROOF LIVE LOAD = 20 PSF (SNOW DRIFT APPLIED PER CODE) MAIN LEVEL FLOOR LIVE LOAD = 100 PSF SECOND FLOOR OFFICE LIVE LOAD = 40 PSF CLASS ROOM 80 PSF CORRIDORS	
	WND LOADS: BASIC WIND SPEED = 115 MPH (3 SECOND GUST) EXPOSURE 'B' K = 1.0	
	$Gcpi = \pm 0.18$ ROOF UPLIFT = 20 PSF (NET) Kz = 34.0 PSF COMPONENTS AND CLADDING PRESSURE = 25 PSF	
	$\begin{array}{l} \text{GROUND SNOW LOAD} = 30 \text{ PSF} \\ \text{I} = 1.0 \end{array}$	<b> </b>   C
	Ce = 1.0 Ct = 1.1 Pf = 23 PSF	EN
S	SEISMIC LOADS: Ss = 0.233g Si = 0.069g	R
1	SEISMIC DESIGN CATEGORY 'B' SITE CLASSIFICATION 'D' I = 1.25 Sds = 0.248g	EMA
	Sub = $0.2489$ SDi = $0.111g$ Cs = $0.136$ R = $2.0$	
	Cs = 0.101 EQUIVALENT LATERAL FORCE PROCEDURE	
	SHEETS S1.0 THRU S2.1 ARE STRUCTURAL DESIGN DRAWINGS ONLY (REQUIRED FOR THE FOUNDATION PLAN, ROOF FRAMING PLAN, DETAILS AND SCHEDULES). ANY REFERENCE TO ARCHITECTURAL MATERIALS, SYSTEMS, OR CONCEPTS IS FOR CLARITY ONLY.	
	ALL FILL AND UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED AND FOOTINGS SHALL REST ON UNDISTURBED SOIL OR ENGINEERED FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER.	
	FOOTINGS ARE DESIGNED FOR A MINIMUM ASSUMED SOIL BEARING CAPACITY OF 1500 PSF. ALL EXTERIOR CONCRETE EXPOSED TO WEATHER SHALL BE 4000 PSI, AIR-ENTRAINED. ALL OTHER CONCRETE SHALL BE 4000 PSI. ALL MATERIALS AND PROCESSES TO THIS END SHALL CONFORM IN GENERAL TO ACI RECOMMENDED PRACTICE FOR THE DESIGN OF CONCRETE MIXES. (ACI-613 LAST REVISED).	
	PROVIDE 3/4" CHAMFER ON EXPOSED CONCRETE EDGES.	
	CONTRACTOR SHALL PLACE 1/2" ASPHALT IMPREGNATED FIBER BOARD IN JOINTS OF CONCRETE SLAB ON GRADE AGAINST VERTICAL SURFACES. STEEL REINFORCING SHALL BE BILLET STEEL ASTM A-615, GRADE 60.	
	MESH SHALL BE WELDED WIRE FABRIC ASTM A-185.	
S	ROUND STEEL PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-501. SQUARE AND RECTANGULAR STEEL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500, GRADE B. ALL STRUCTURAL STEEL BEAMS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, Fy= 50KSI. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-36. ALL STEEL SHALL RECEIVE ONE COAT OF SHOP PAINT, UNLESS NOTED OTHERWISE.	
	ALL BOLTS SHALL BE $3/4$ " DIAMETER, ASTM A $-325$ TYPE N, UNLESS OTHERWISE SHOWN OR NOTED.	
	CUTS, HOLES, COPINGS, ETC. IN STRUCTURAL STEEL MEMBERS REQUIRED BY WORK OF OTHER TRADES SHALL BE MADE IN THE SHOP AND SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES OR CUTS IN THE FIELD WILL NOT BE PERMITTED WITHOUT SPECIFIC APPROVAL OF THE ENGINEER.	
	FOR OPENINGS IN THE ROOF, SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. UNLESS NOTED OTHERWISE, ALL BEAM SHEAR CONNECTIONS SHALL BE DESIGNED FOR ONE HALF THE ALLOWABLE UNIFORMLY DISTRIBUTED LOADING IN ACCORDANCE WITH THE UNIFORM LOAD CONSTANTS AS TABULATED IN THE AISC MANUAL (FOURTEENTH EDITION) FOR THE INDICATED SPAN PLUS 2 KIPS.	
	ALL LIGHT GAGE BEARING WALL METAL STUDS SHALL BE FORMED OF SHEET STEEL CONFORMING TO ASTM A-446 OR A-570. ALL 14 AND 16 GAGE METAL STUDS SHALL HAVE A MINIMUM YIELD POINT OF 50,000 PSI. ALL 18 AND 20 GAGE METAL STUDS SHALL HAVE A MINIMUM YIELD POINT OF 33,000 PSI. ALL SHEAR WALL STRAPPING MATERIAL SHALL HAVE A MINIMUM YIELD POINT OF 50,000 PSI. ALL SHEAR WALL STRAPPING MATERIAL SHALL HAVE A MINIMUM YIELD POINT OF 50,000 PSI. FINISH FOR ALL LIGHT GAGE MATERIAL SHALL BE HOT-DIPPED GALVANIZED COMPLYING WITH ASTM A-525 FOR A MINIMUM G60 FINISH.	
	METAL STUD BEARING WALL INSTALLER SHALL PROVIDE ALL STEEL TRACKS, BLOCKING, LINTELS, CLIP ANGLES, SHOES, STIFFENERS, FASTENERS, AND ACCESSORIES AS INDICATED OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.	
	METAL STUDS SPECIFIED ON THESE DRAWINGS ARE BASED ON THE PROPERTIES OF STUDS MANUFACTURED BY DIETRICH. ALL STUDS PROVIDED FOR CONSTRUCTION SHALL MEET THOSE MINIMUM PROPERTIES.	
;	ALL METAL STUD CONSTRUCTION SHALL COMPLY WITH THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA).	
	J       f'm MASONRY SHALL BE 2200 PSI (MINIMUM).         ALL GROUT SHALL BE 3000 PSI (MINIMUM).	
	PROVIDE 9 GAUGE HORIZONTAL JOINT REINFORCEMENT IN CMU WALLS AT 1'-4" O.C. METAL DECK ATTACHEMENT PATTERN:	
	ROOF:	
	36/7 5/8" PUDDLE WELDS AT SUPPORTS #10 TEK SCREWS AT 1'-0" O.C. SIDELAPS	
	OR 36/7 #12 TEK SCREWS AT SUPPORTS #10 TEK SCREWS AT 1'-0" O.C. SIDELAPS	No X
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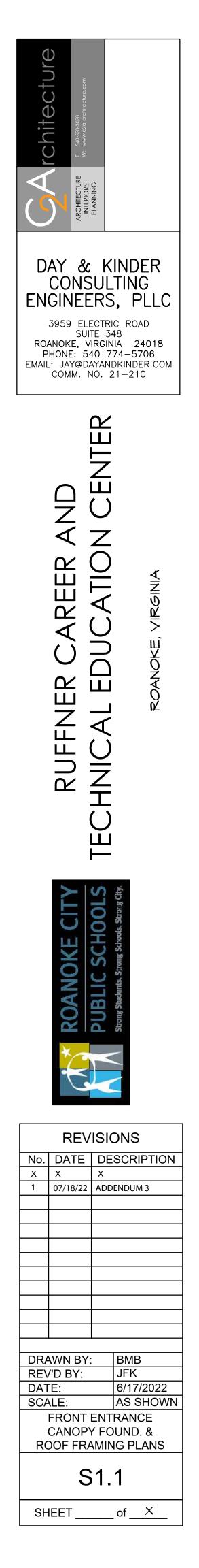
DAY & KINDER CONSULTING NGINEERS, PLLC 3959 ELECTRIC ROAD SUITE 348 ROANOKE, VIRGINIA 24018 PHONE: 540 774–5706 AIL: JAY@DAYANDKINDER.COM COMM. NO. 21–210						
RUFFNER CAREER AND	<b>TECHNICAL EDUCATION CENTER</b>	ROANOKE, VIRGINIA				
<b>ROANOKE CITY</b>	PUBLIC SCHOOLS Strong Students, Strong Schools, Strong City,					
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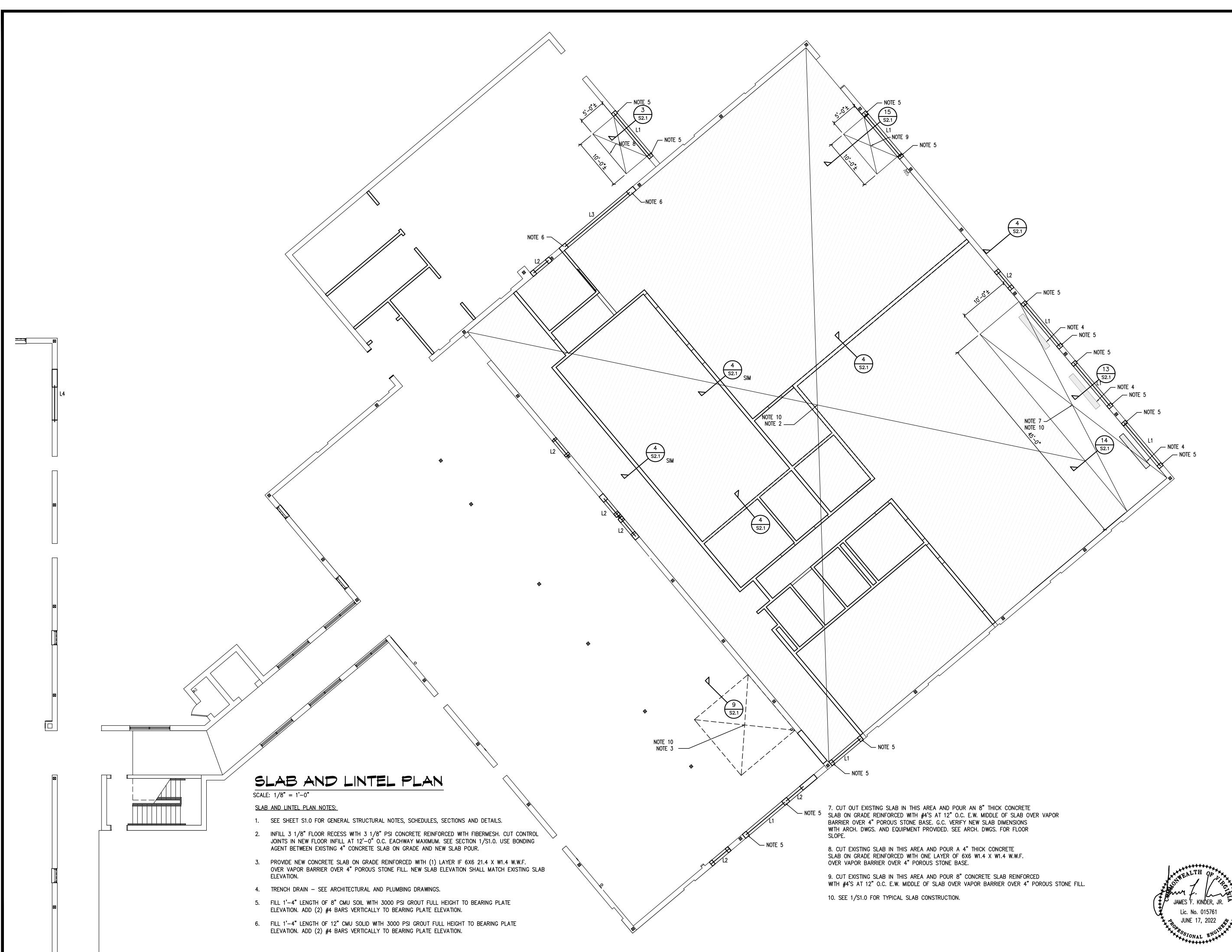
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HSS 10" X 8" X 3/8" (LSV)	NOTE 4 (\\S1) "8\" X 3\"8" NOTE 4 NOTE 4 NOTE 4 NOTE 4 NOTE 5 NOTE 4	NOTE 4	NOTE 4 (\state="1">NOTE 4 NOTE 4 NOTE 4 NOTE 4 NOTE 4 NOTE 4	NOTE 4	
 3" (LSV) sv)	NOTE 4 HSS 10" X 8" X 3/8" (LSV) HSS 10" X 8" X 3/8" (LSV)	NOTE 4	NOTE 4	NOTE 4 <sup>±</sup> CANTILEVER HSS 10" X 8" X 5/8" (LSV) CANTILEVER HSS 10" X 8" X 5/8" (LSV)	5 EQUAL SPACES
HSS 10" X 8" X 3/8" (LSV)	NOTE 4 (\ST) "8/E X "01 SSH	NOTE 4 (NST) "8/E X "01 SSH	NOTE 4 (VS1) "8" X 3/8" (LSV)	NOTE 4 (\S1) "8/K" (LSV) NOTE 4 NOTE 4	
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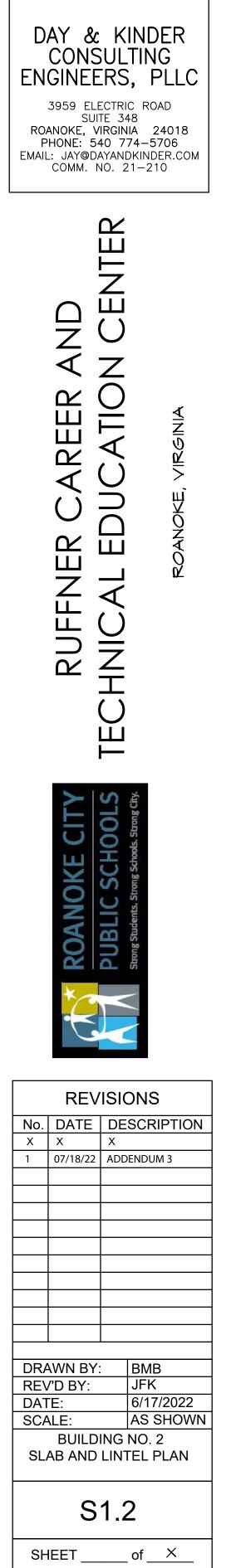
6. HSS 6" X 2" X 1/4" (LSV).

7. G.C. FIELD VERIFY DIMENSIONS BASED ON FIELD CONDITIONS.

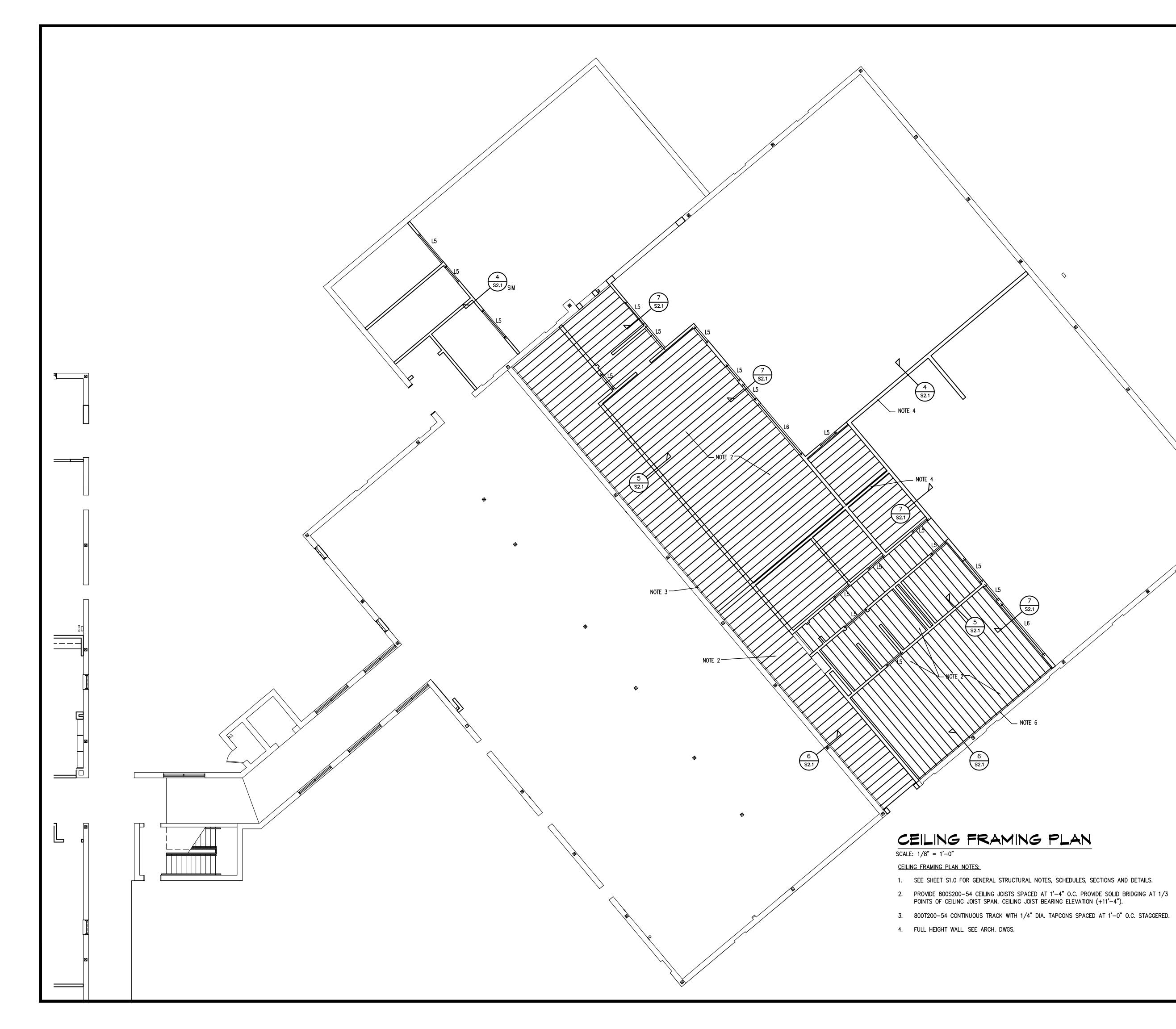


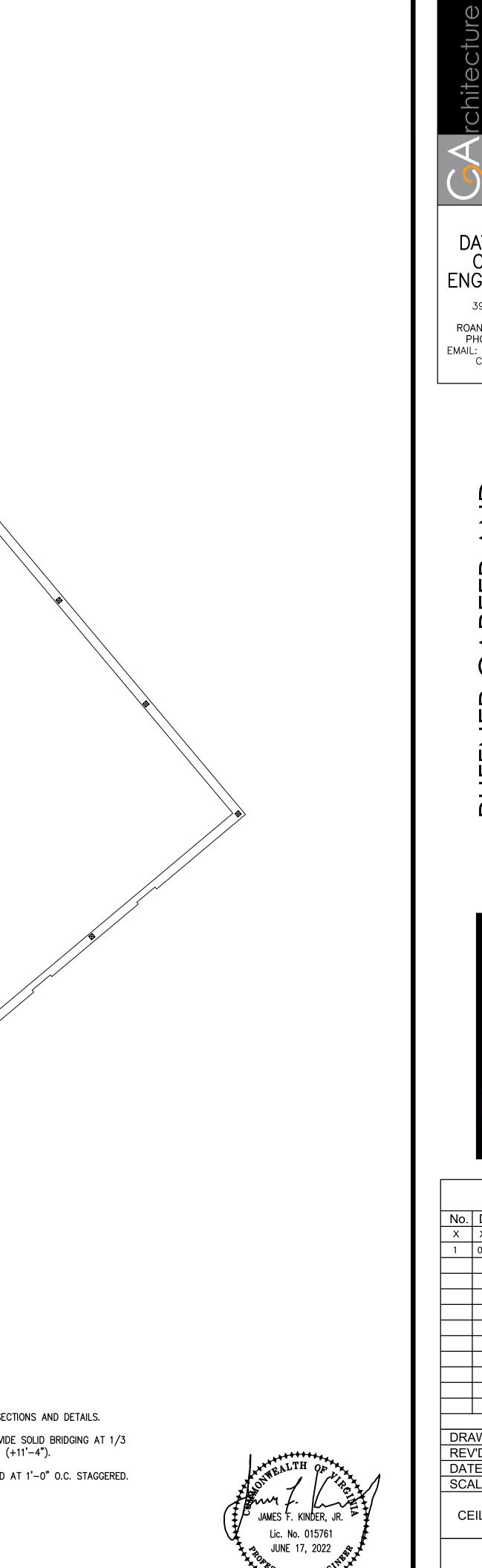
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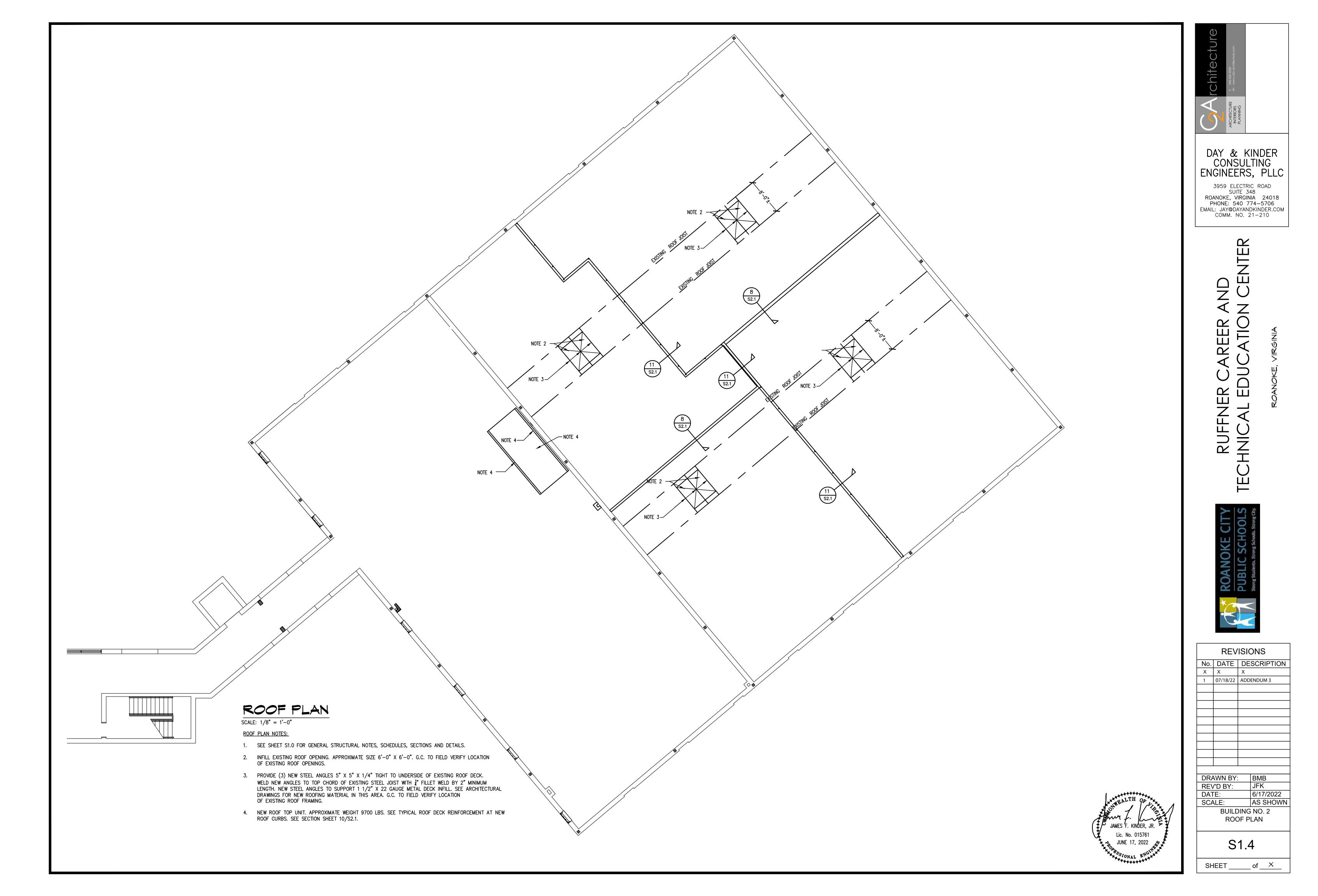
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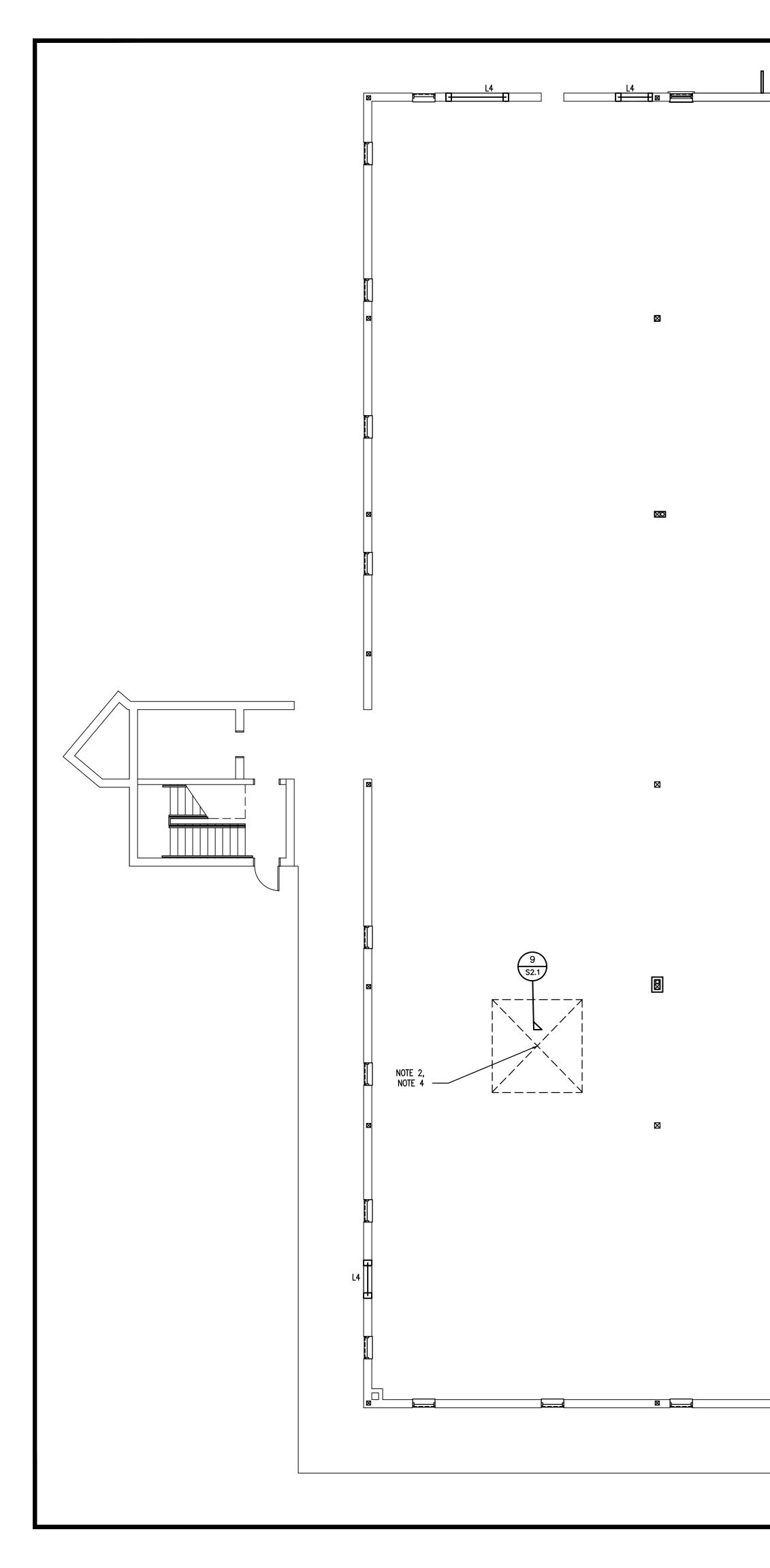


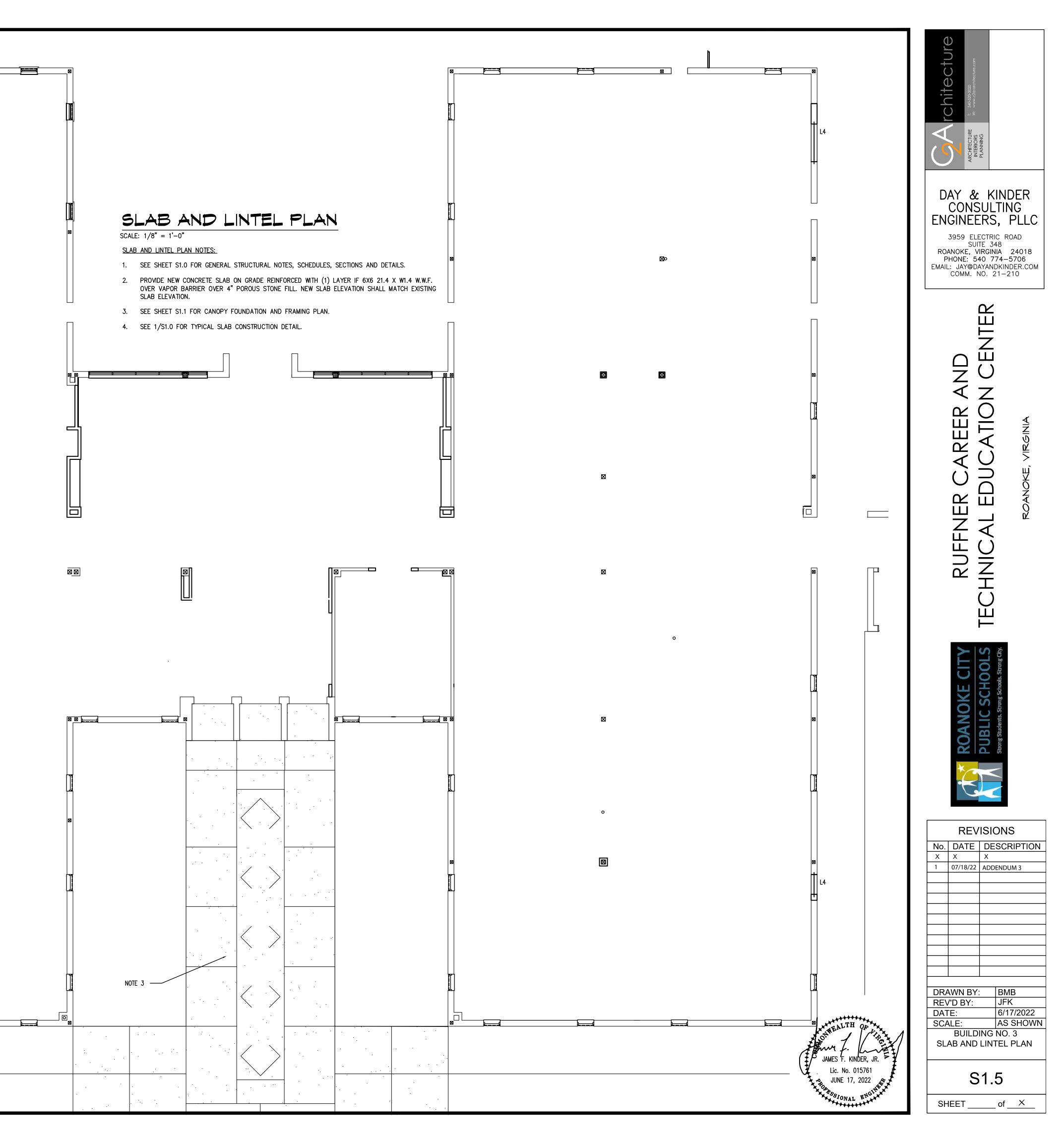


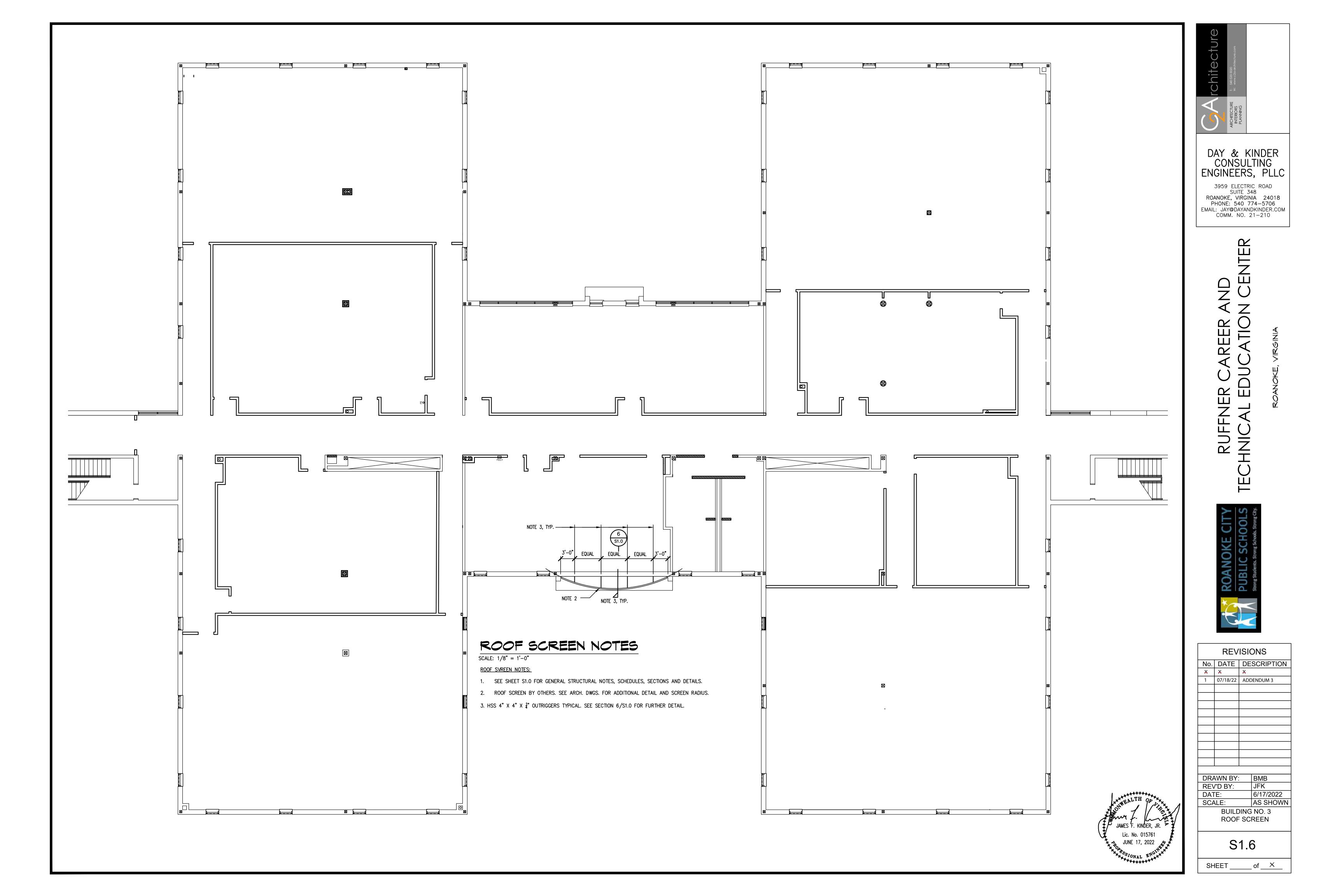
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BUILDING NO. 2 CEILING FRAMING PLAN						

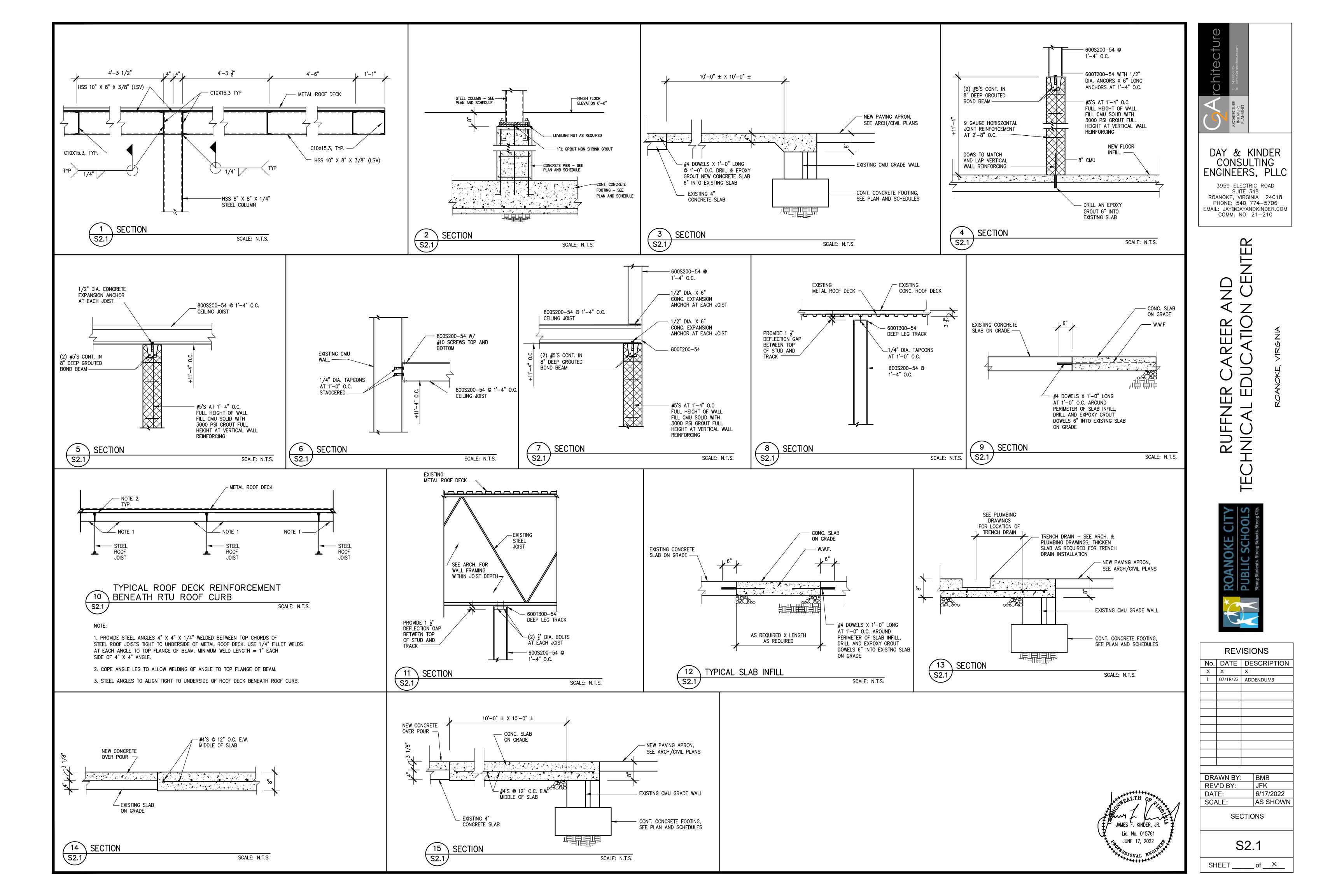
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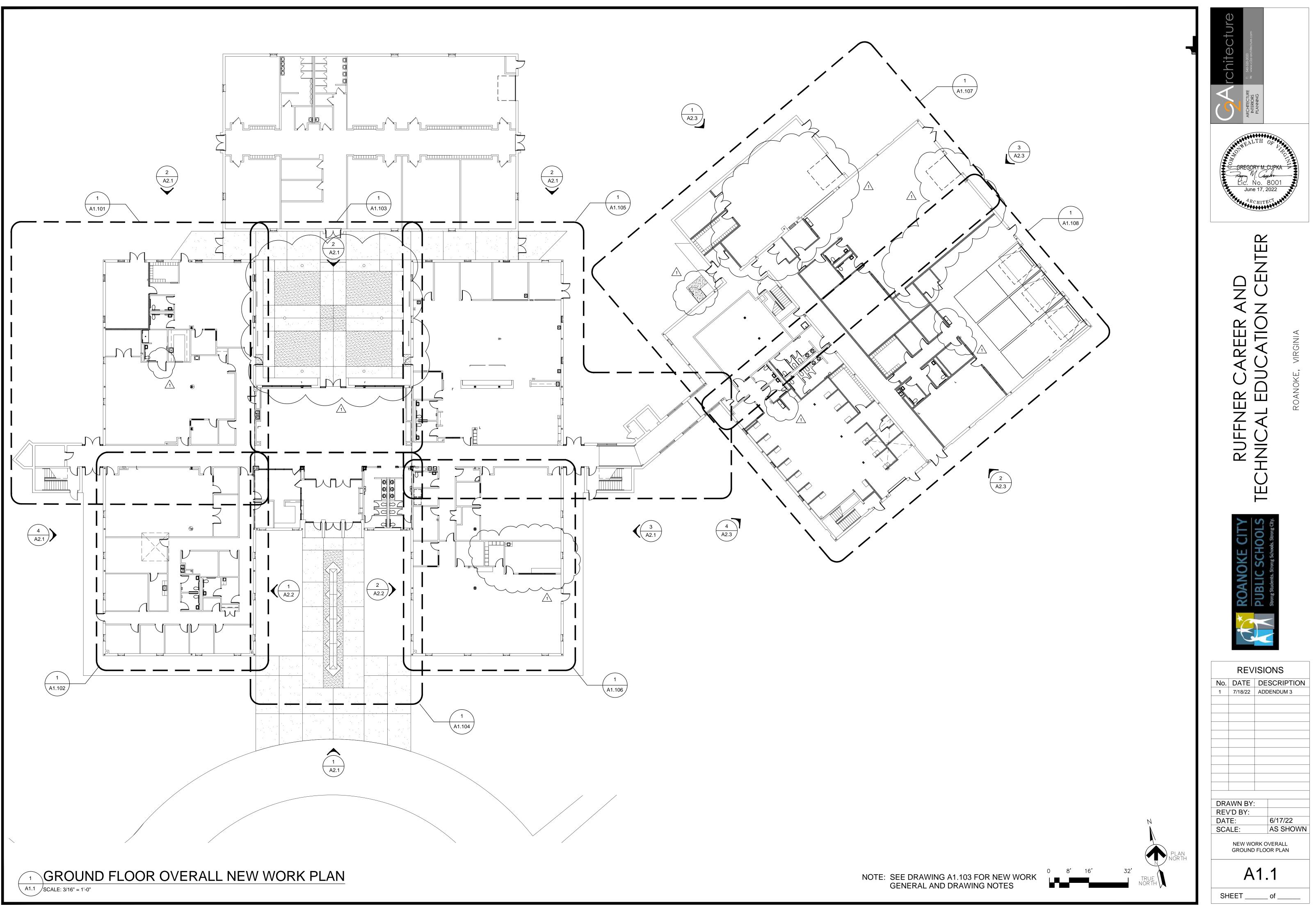


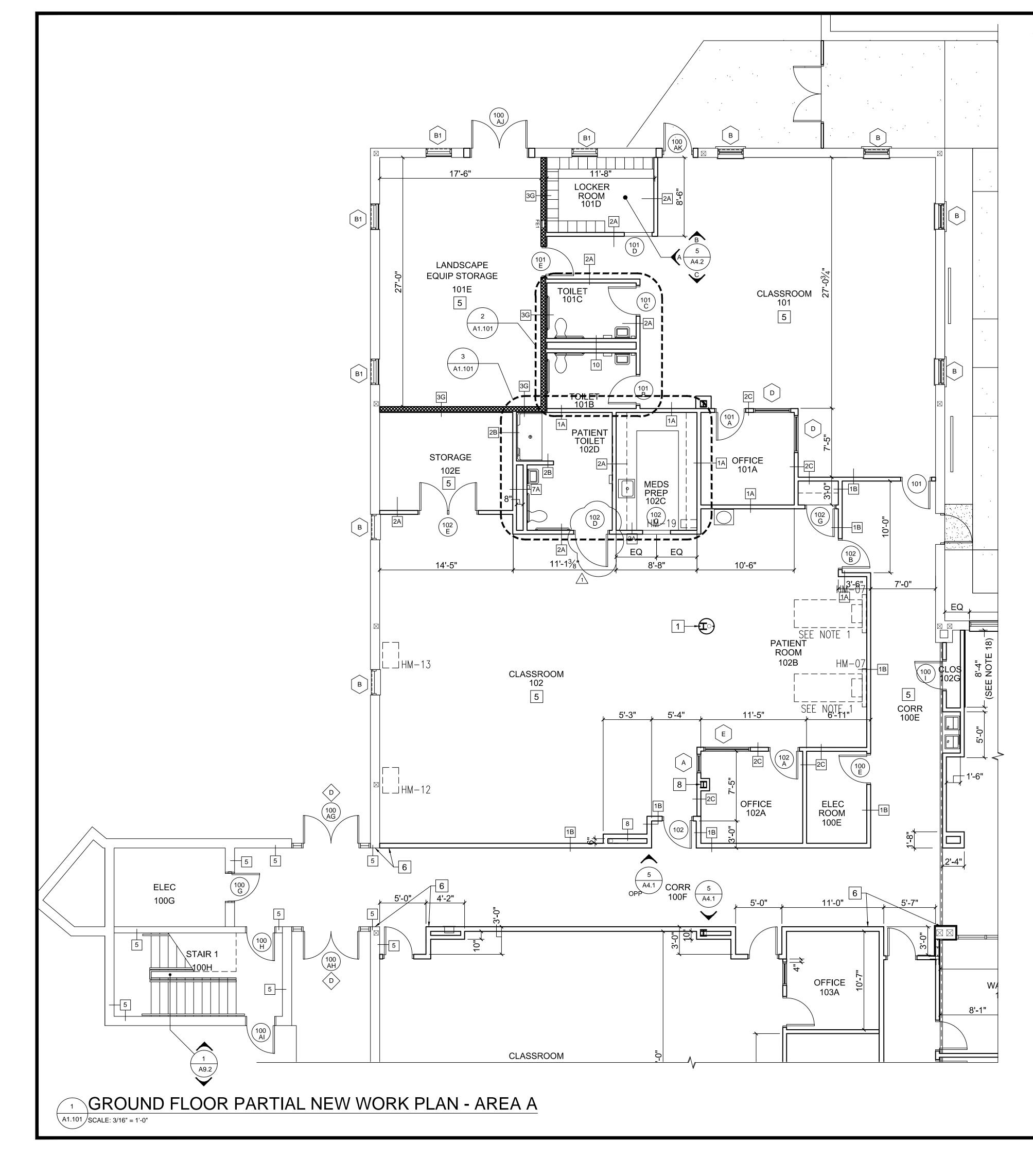


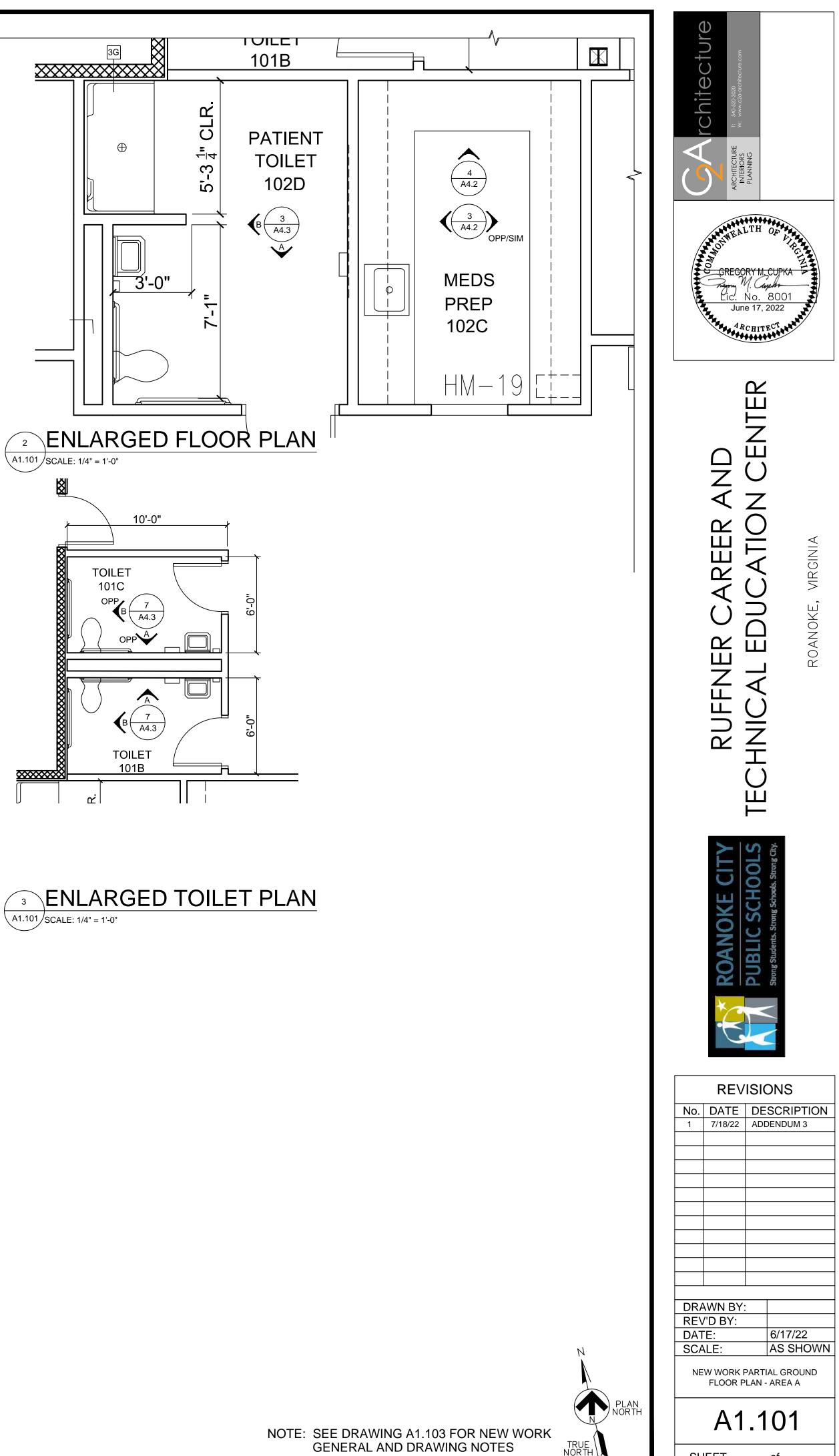








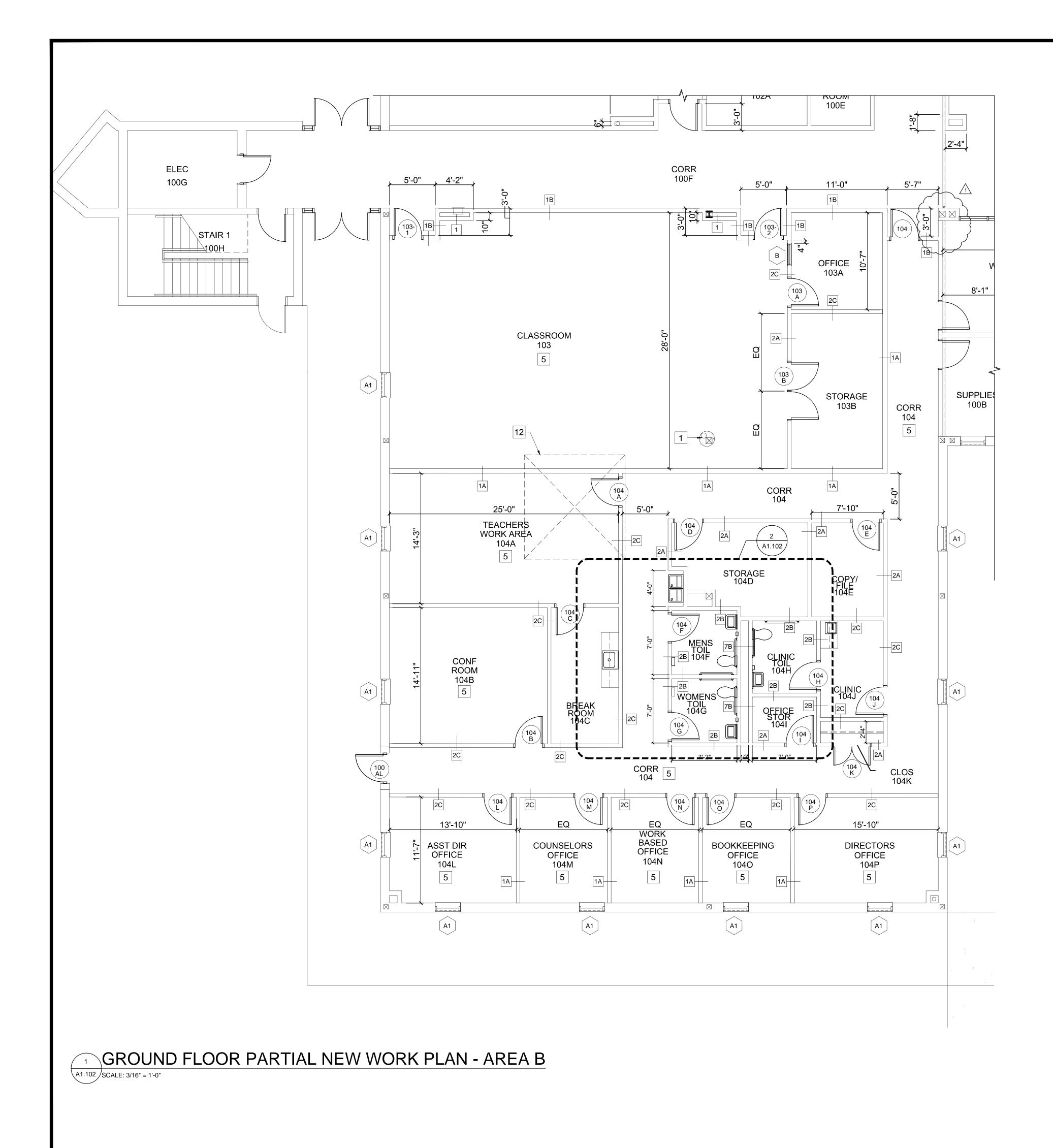


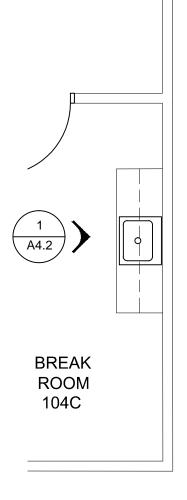


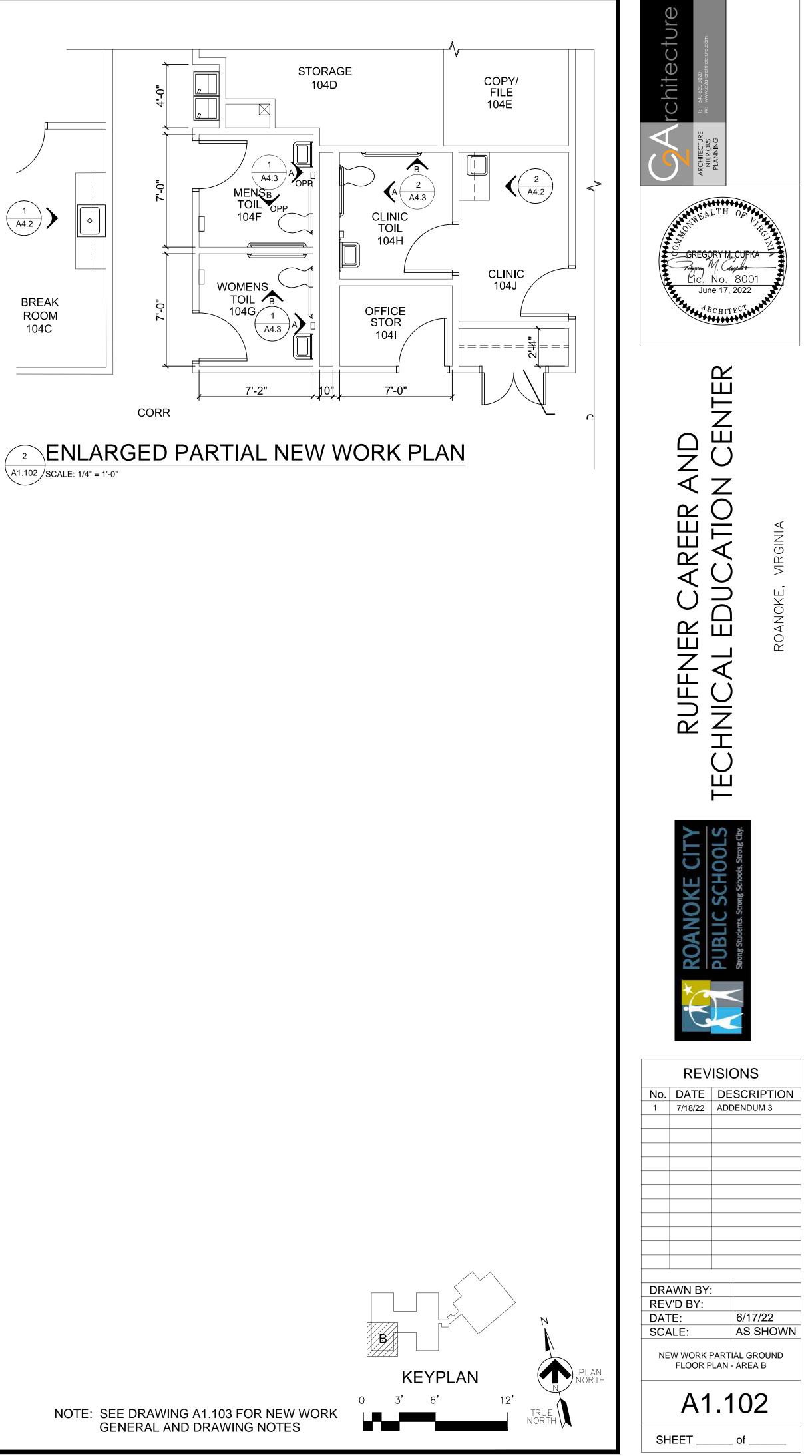
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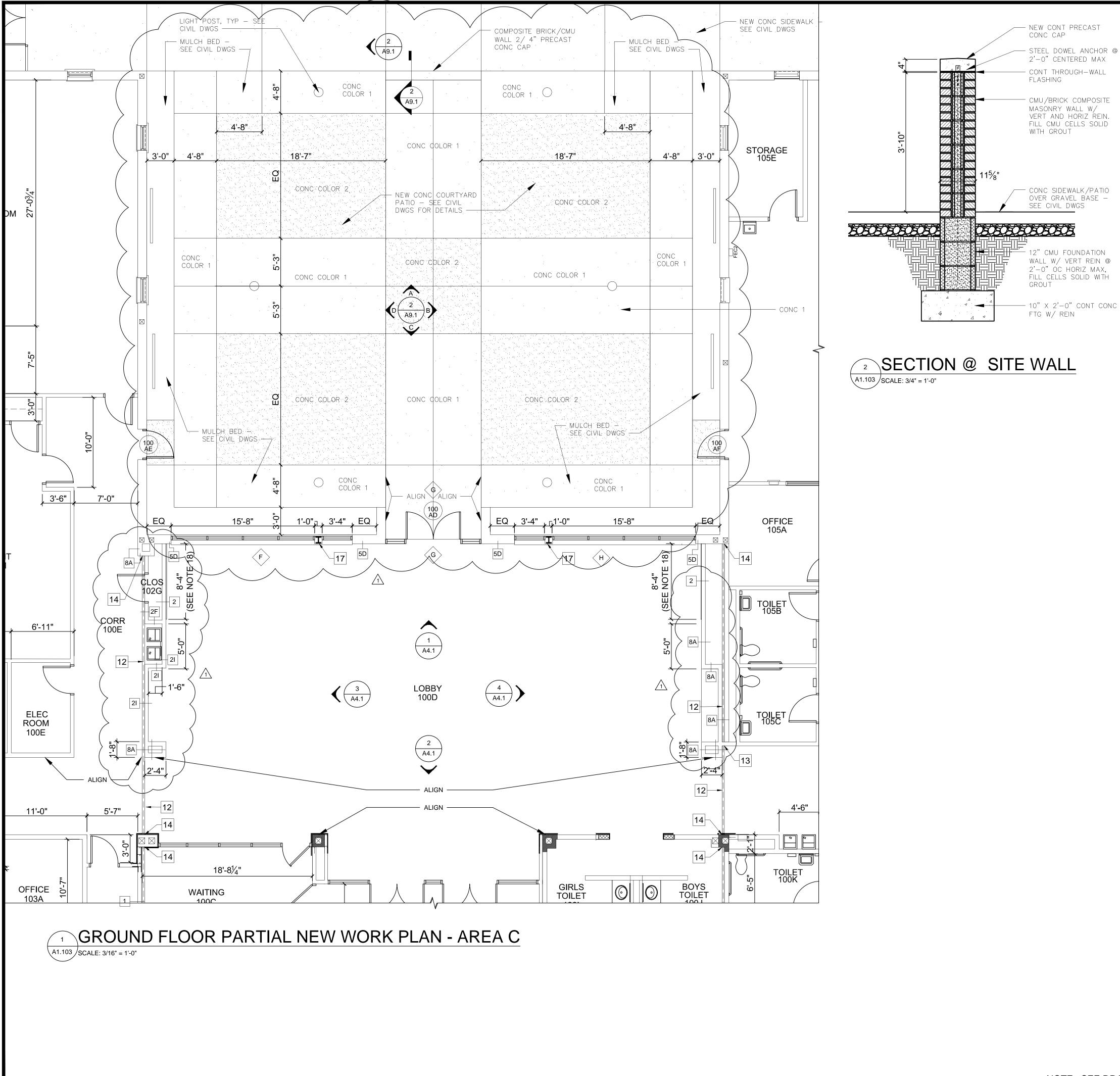
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A1.101 SCALE: 1/4" = 1'-0"

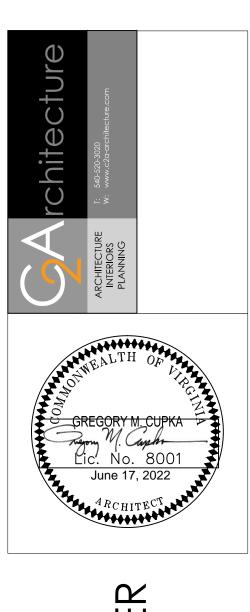








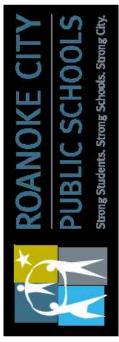
	GENERAL NEW WORK NOTES
1	PATCH, PREPARE AND PAINT ALL EXISTING INTERIOR WALL SURFACES UNLESS NOTED OTHERWISE.
2	ALL OUTSIDE CORNERS AT NEW CMU WALLS (INCLUDING, BUT NOT LIMITED TO, WALL STOPS, INTERSECTING WALLS, AND WINDOW JAMBS) SHALL HAVE BULLNOSE CORNERS W/ 1" RADIUS UNO.
	NEW WORK DRAWING NOTES
1	20" DIA METAL COLUMN ENCLOSURE POSITIONED AS REQUIRED TO ENCLOSE EXISTING STEEL COLUMN AND DRAINAGE PIPE. GC TO VERIFY DIA. IS ADEQUATE TO ENCLOSE COL AND PIPING AND ADJUST IF NECESSARY.
2	14" DIA METAL COLUMN ENCLOSURE CENTERED ON STEEL COLUMN
3	10" DIA METAL COLUMN ENCLOSURE CENTERED ON STEEL COLUMN
4	14" DIA HALF-ROUND METAL COLUMN ENCLOSURE CENTERED ON STEEL COLUMN
5	PATCH AND PREPARE INTERIOR FACE OF ALL EXTERIOR CMU WALLS AND PAINT, TYP UNO
6	ALIGN FACE OF NEW GWB W/ FACE OF EXISTING CMU WALL
7	INFILL EXISTING OPENING WITH 8" REIN CMU WALL AND HOLLOW METAL FRAME - SEE DETAILS
8	INSTALL MTL STUD FRAMING TIGHT TO FACE OF COLUMN
9	INFILL OPENING IN WALL W/ CMU OF THICKNESS TO MATCH EXISTING.
10	INSTALL NEW CMU TO MATCH EXISTING WHERE WALLS ARE MODIFIED FOR MEP MODIFICATIONS OR FOR NEW OPENINGS. PREPARE SURFACE AND INSTALL NEW FIN AS INDICATED.
11	METAL HANGING ROD W/ $\frac{3}{4}$ " X 1'-0"D WOOD SHELF W/ PLAM FIN INSTALLED @ 36" AND 72" AFF.
12	PATCH AND PREPARE EXISTING FLOOR JOINT AND INSTALL NEW EXPANSION JOINT AND COVER. COORDINATE WITH FLOOR FIN MATERIAL.
13	INSTALL WALLTO-WALL EXPANSION JOINT AND COVER @ NEW GWB/MTL STUD WALLS. COORDINATE W/ WALL FIN MATERIAL
14	PATCH AND PREPARE EXISTING WALL JOINT AND INSTALL NEW WALL EXPANSION JOINT AND COVER. COORDINATE W/ WALL FINISH MATERIAL.
15	INSTALL NEW CEILING EXPANSION JOINT. COORDINATE W/ CEILING FIN MATERIAL.
16	NEW CONT ALUM HANDRAIL @ RAMP
17	NEW 12"W X 6"D ALUM COLUMN ENCLOSURE CENTERED ON STEEL COLUMN. VERIFY IN FIELD ACTUAL DEPTH REQUIRED TO ENCLOSE COL.
18	INSTALL LINEAR WOOD PLANK SYSTEM @ FACE OF WALL FROM CEILING TO FF
19	REPAIR DAMAGED MORTAR JOINTS, PREPARE FACE OF EXISTING BRICK VENEER @ EXTERIOR WALL AND PAINT.

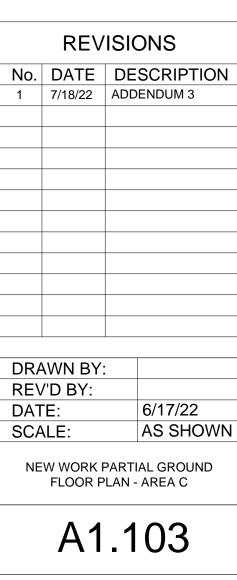


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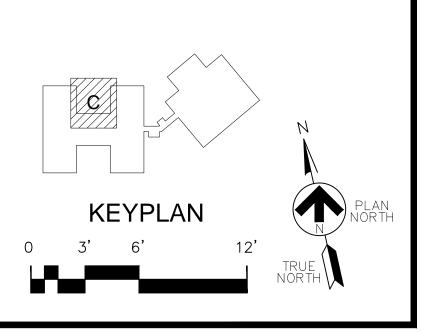
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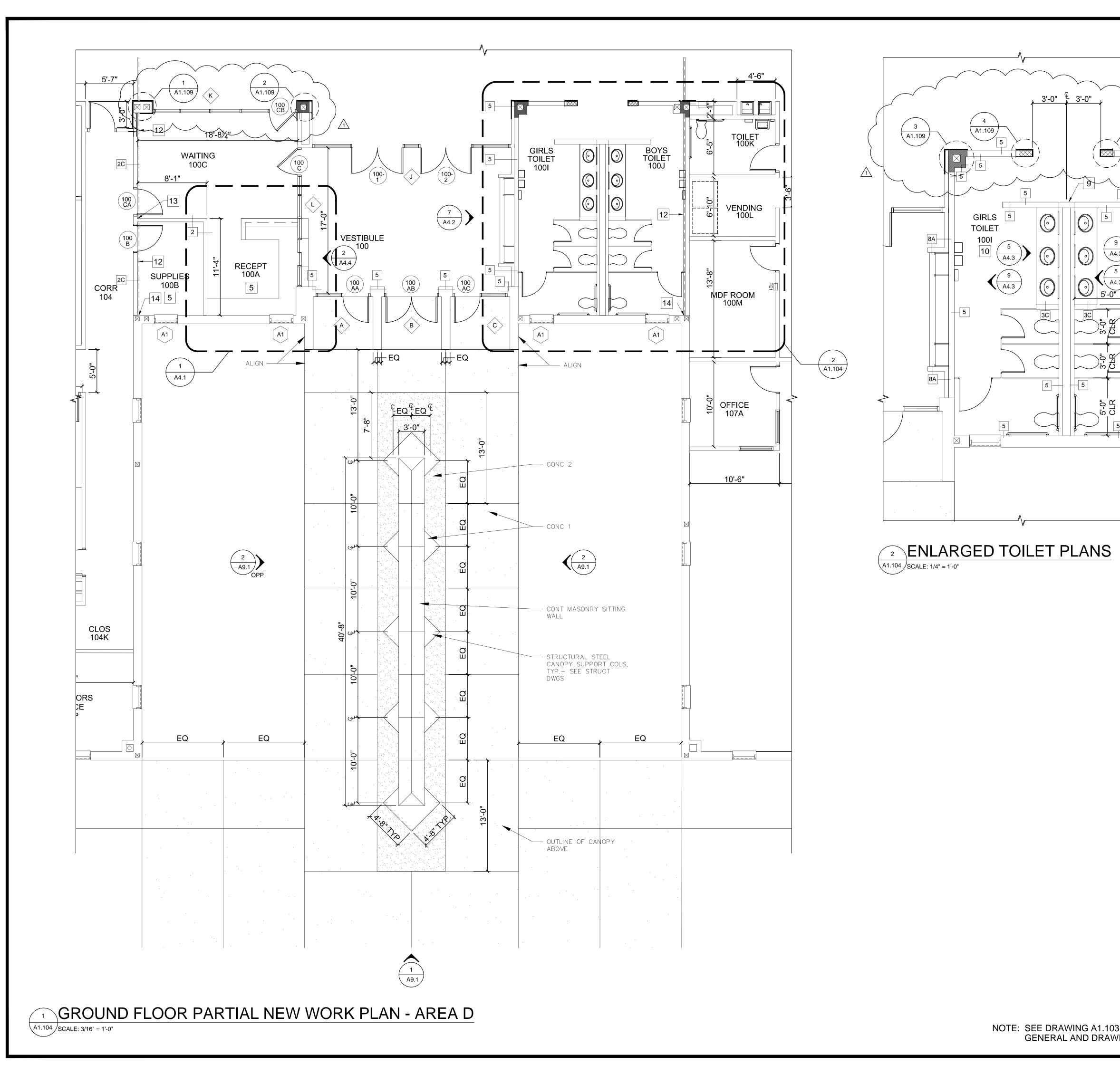
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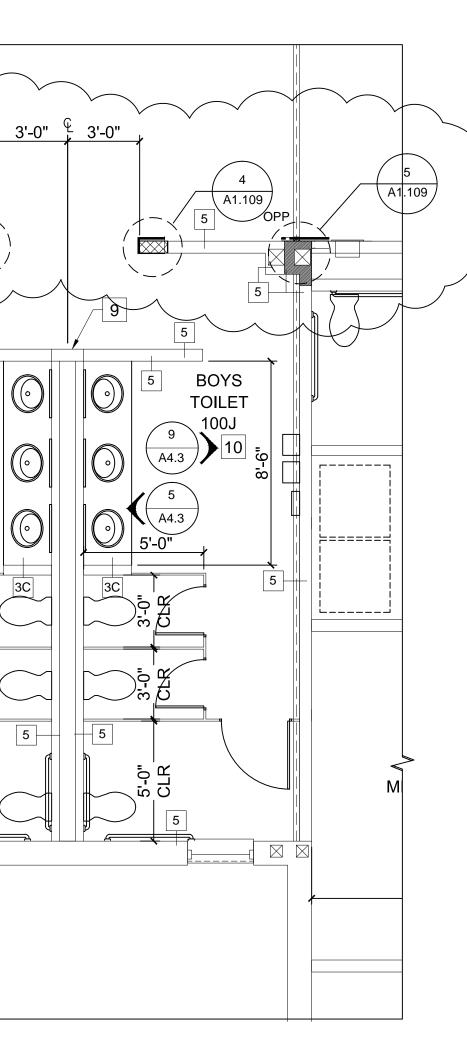




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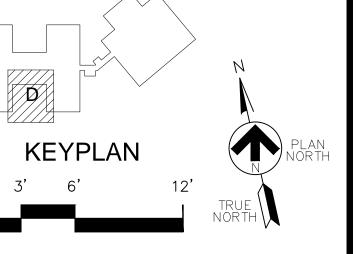
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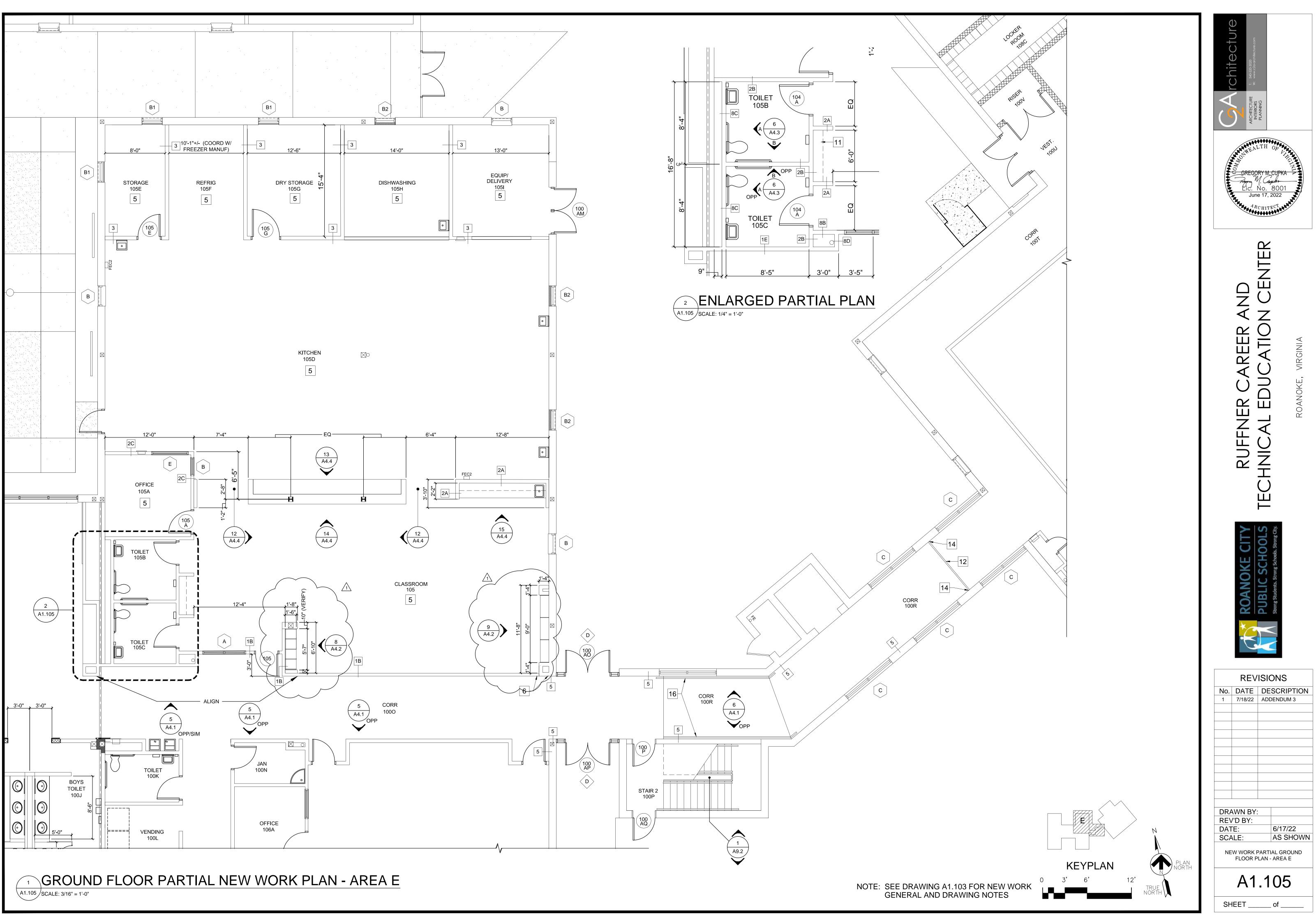


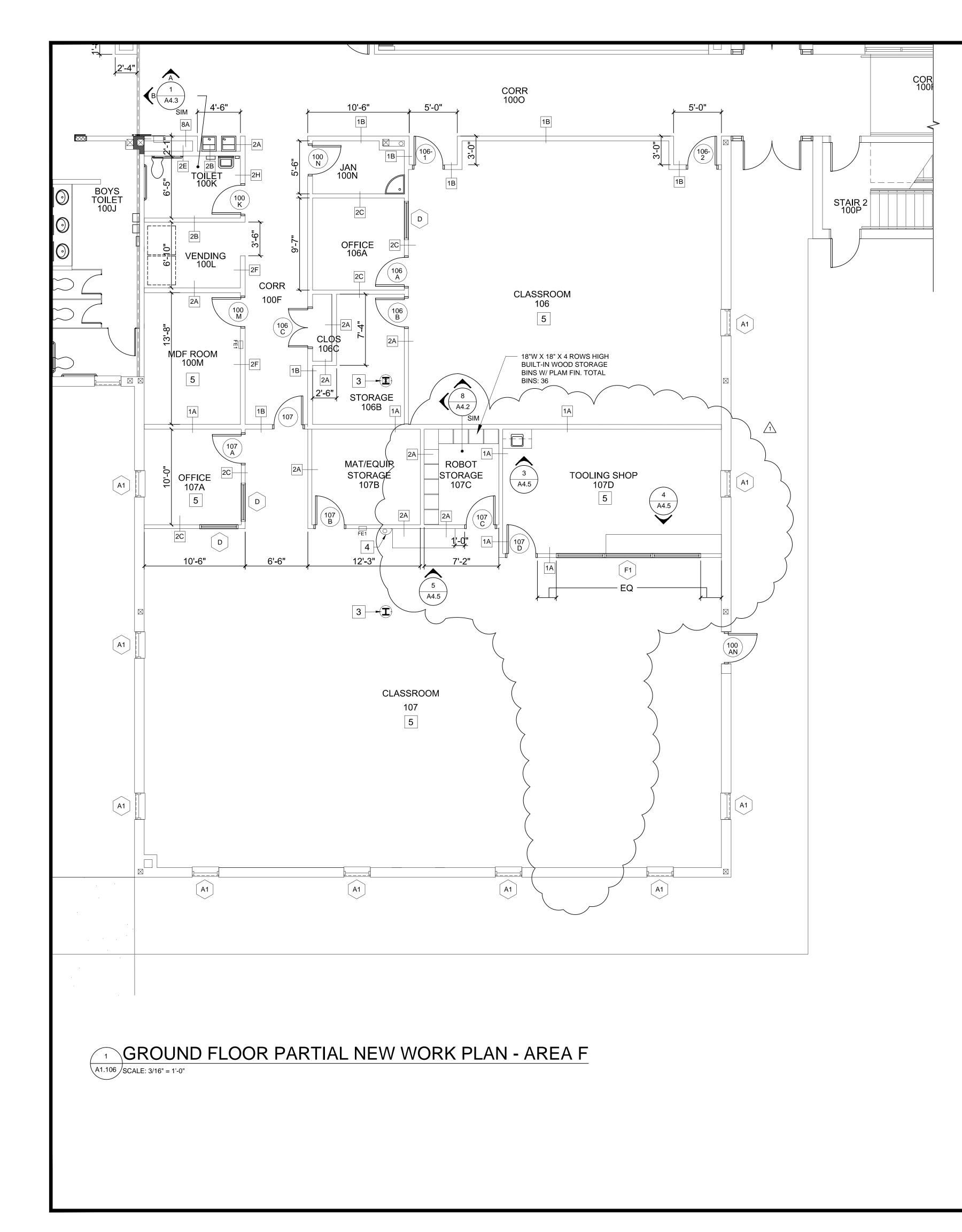


NOTE: SEE DRAWING A1.103 FOR NEW WORK GENERAL AND DRAWING NOTES

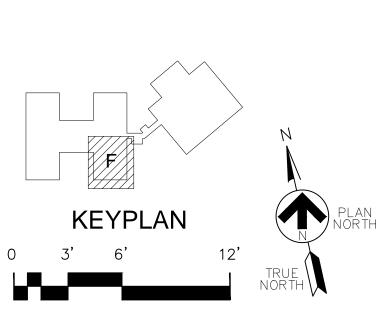
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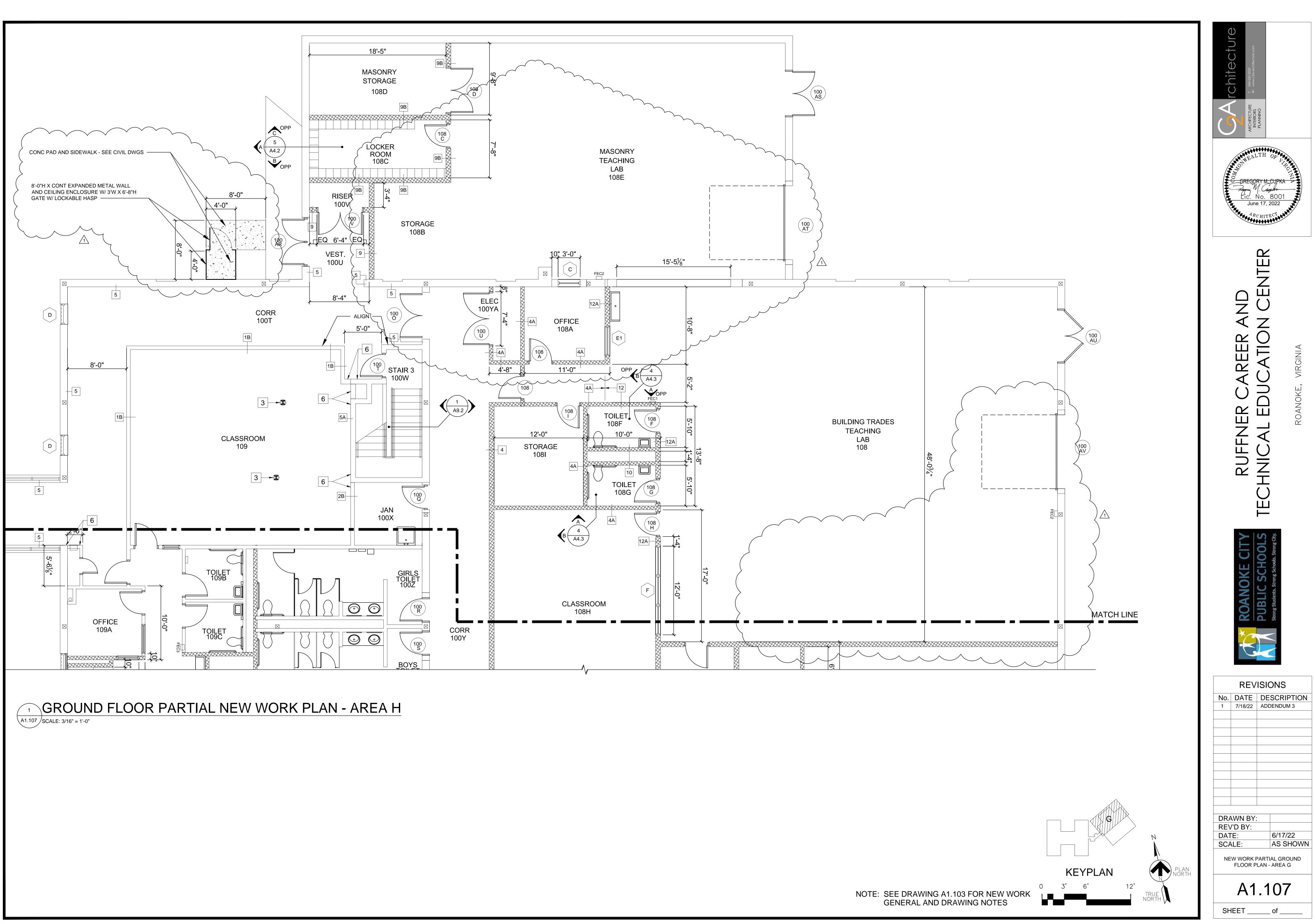


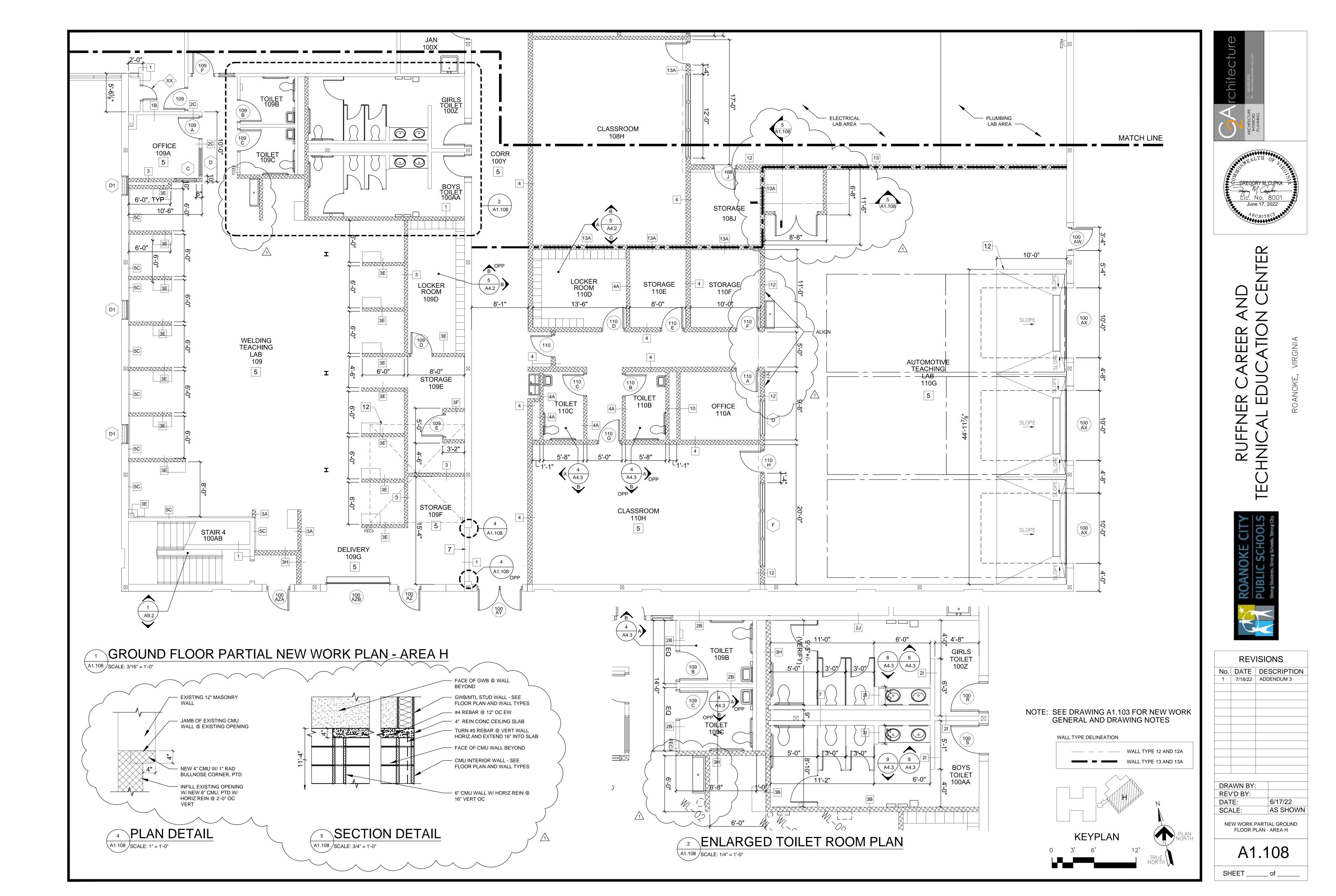


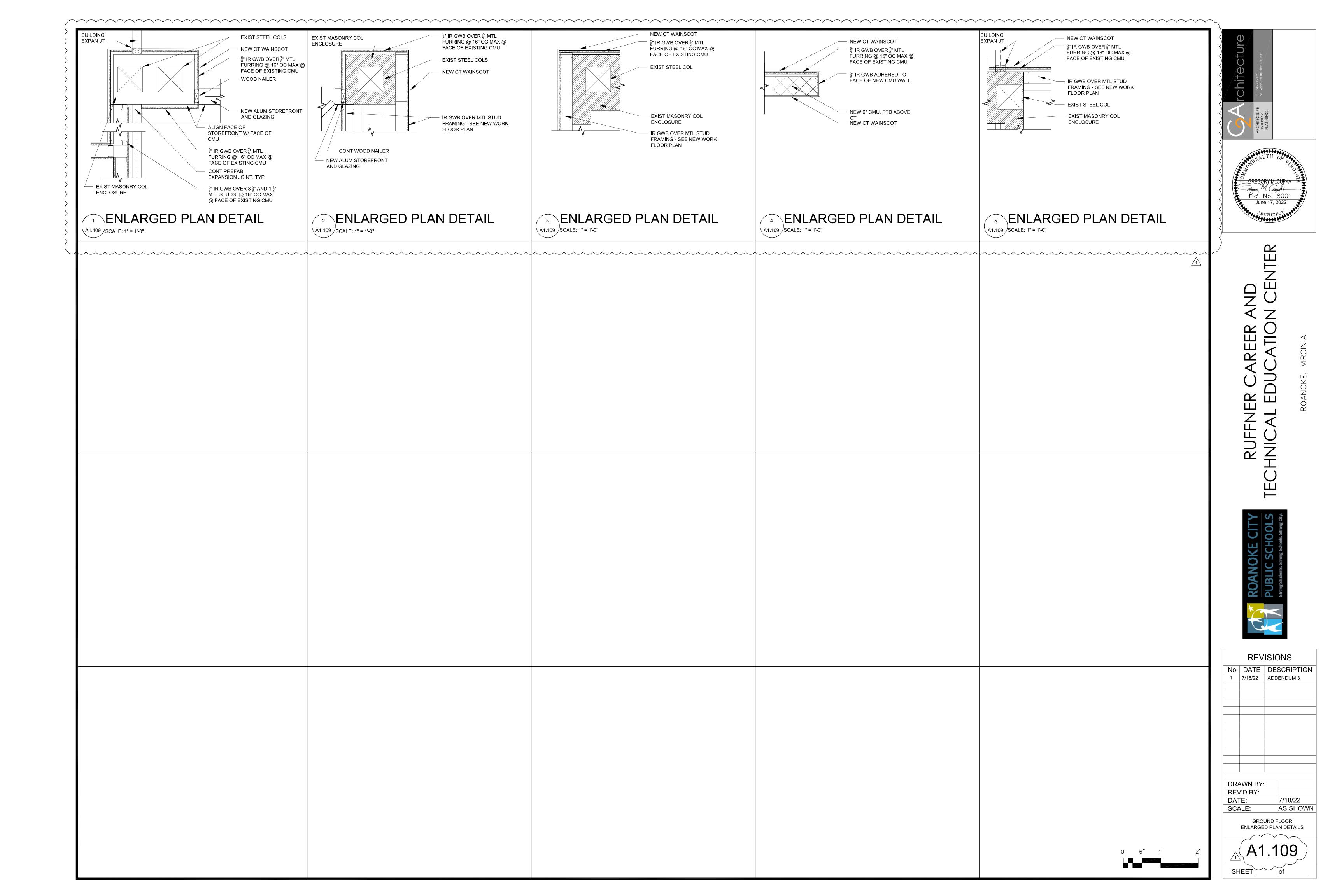


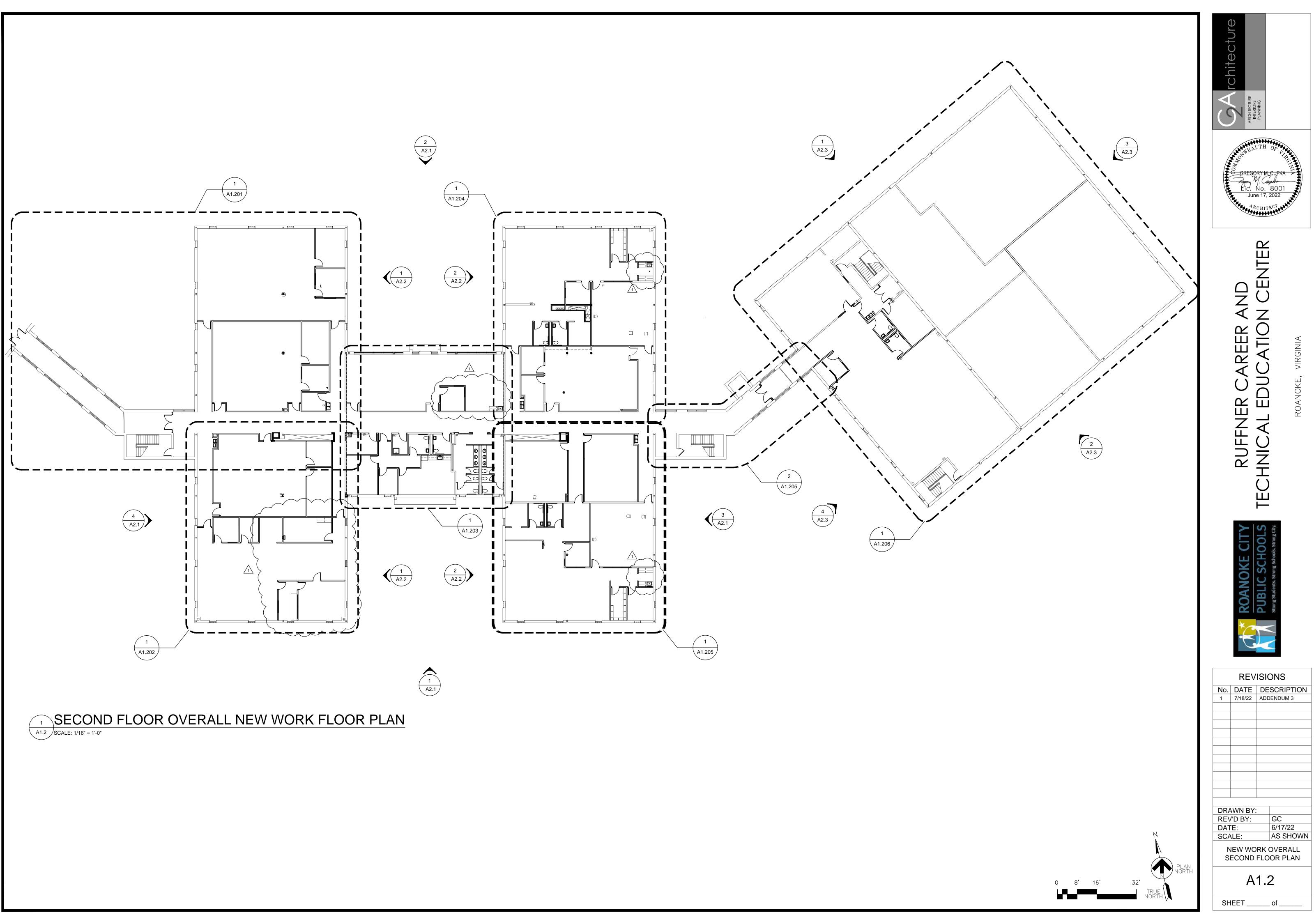


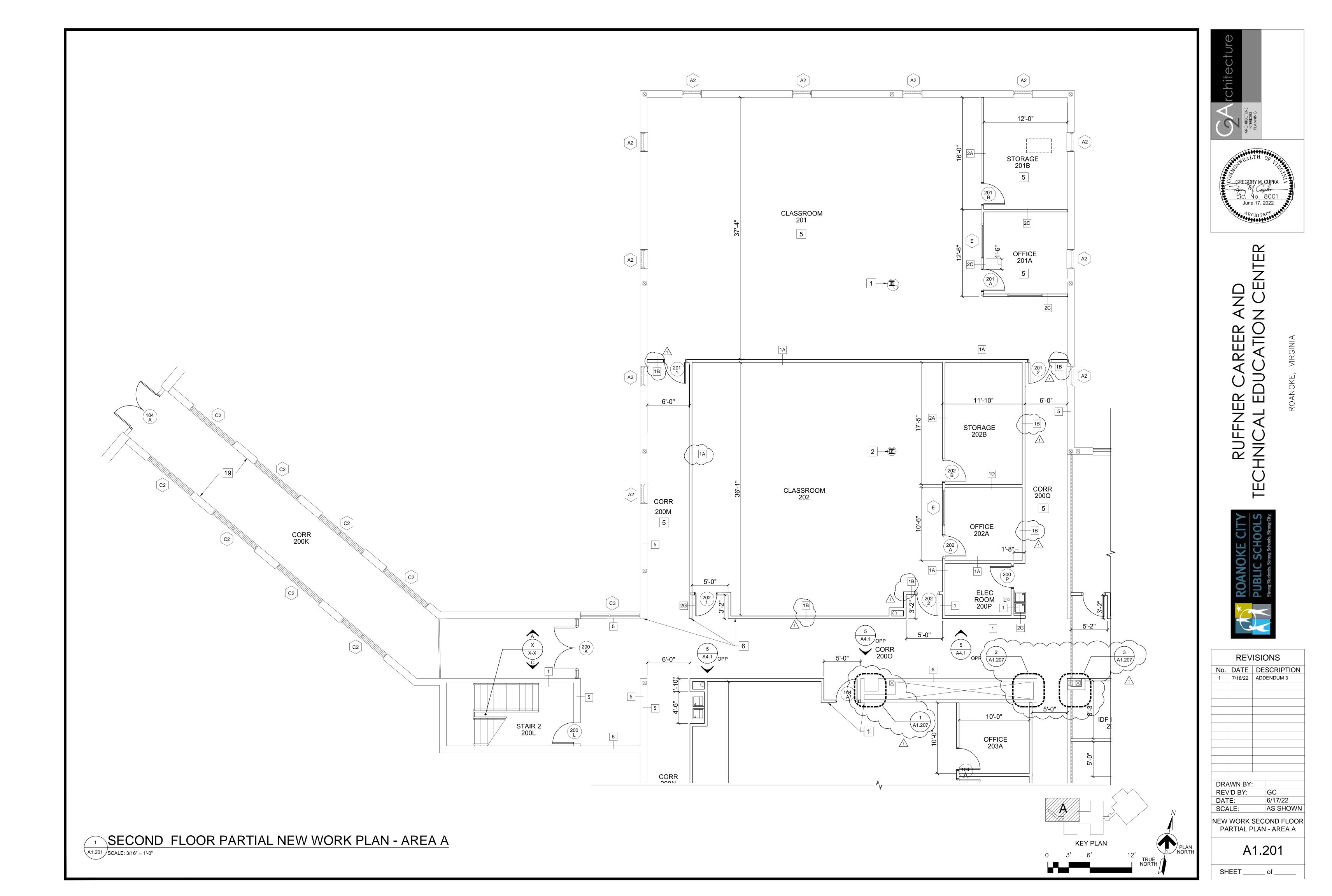
NOTE: SEE DRAWING A1.103 FOR NEW WORK GENERAL AND DRAWING NOTES

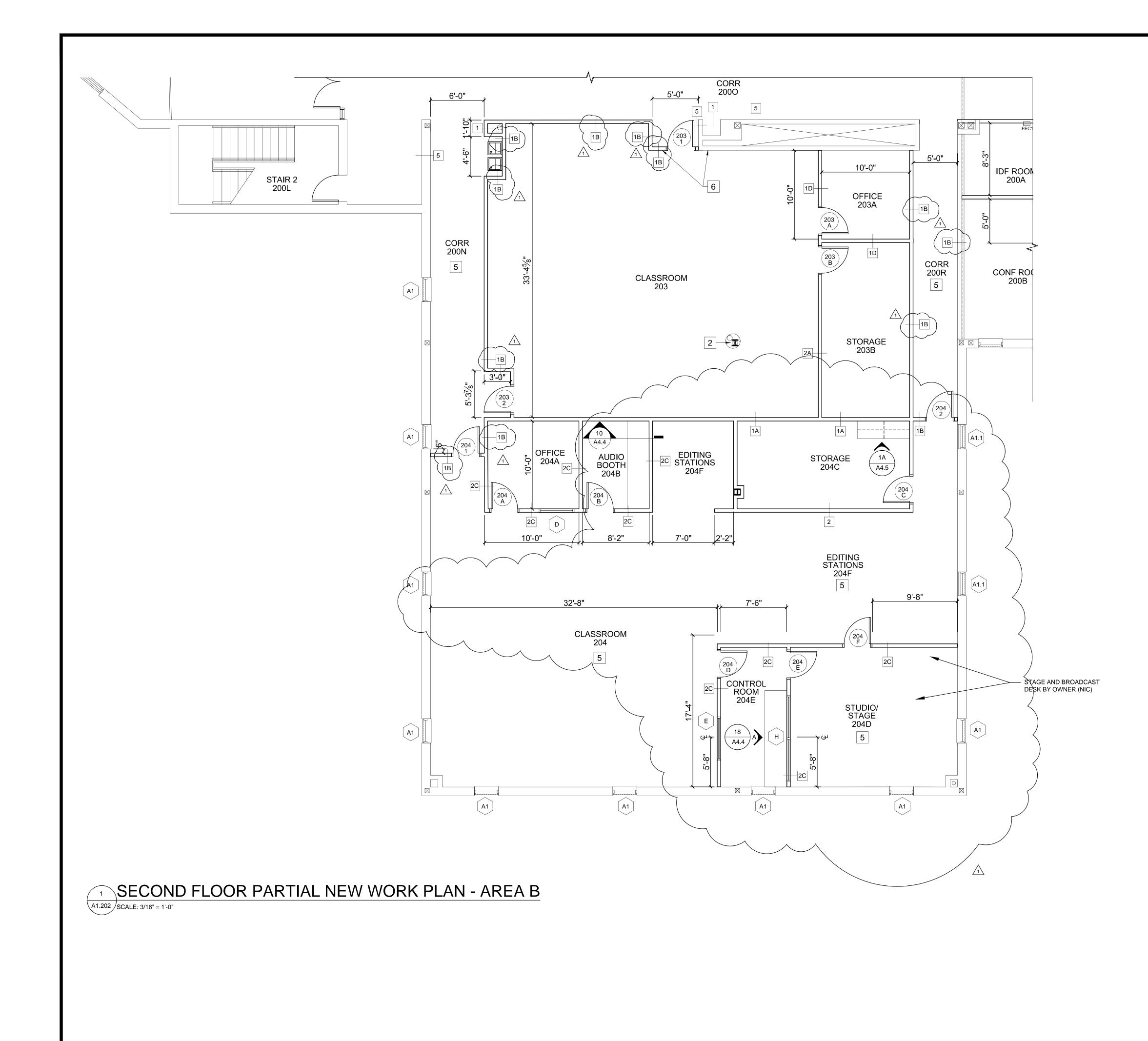


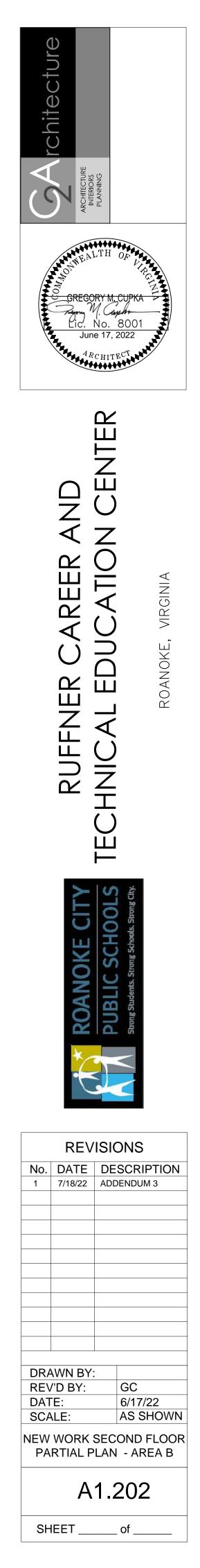


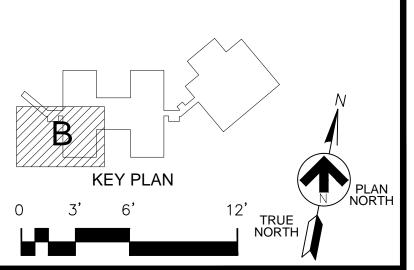


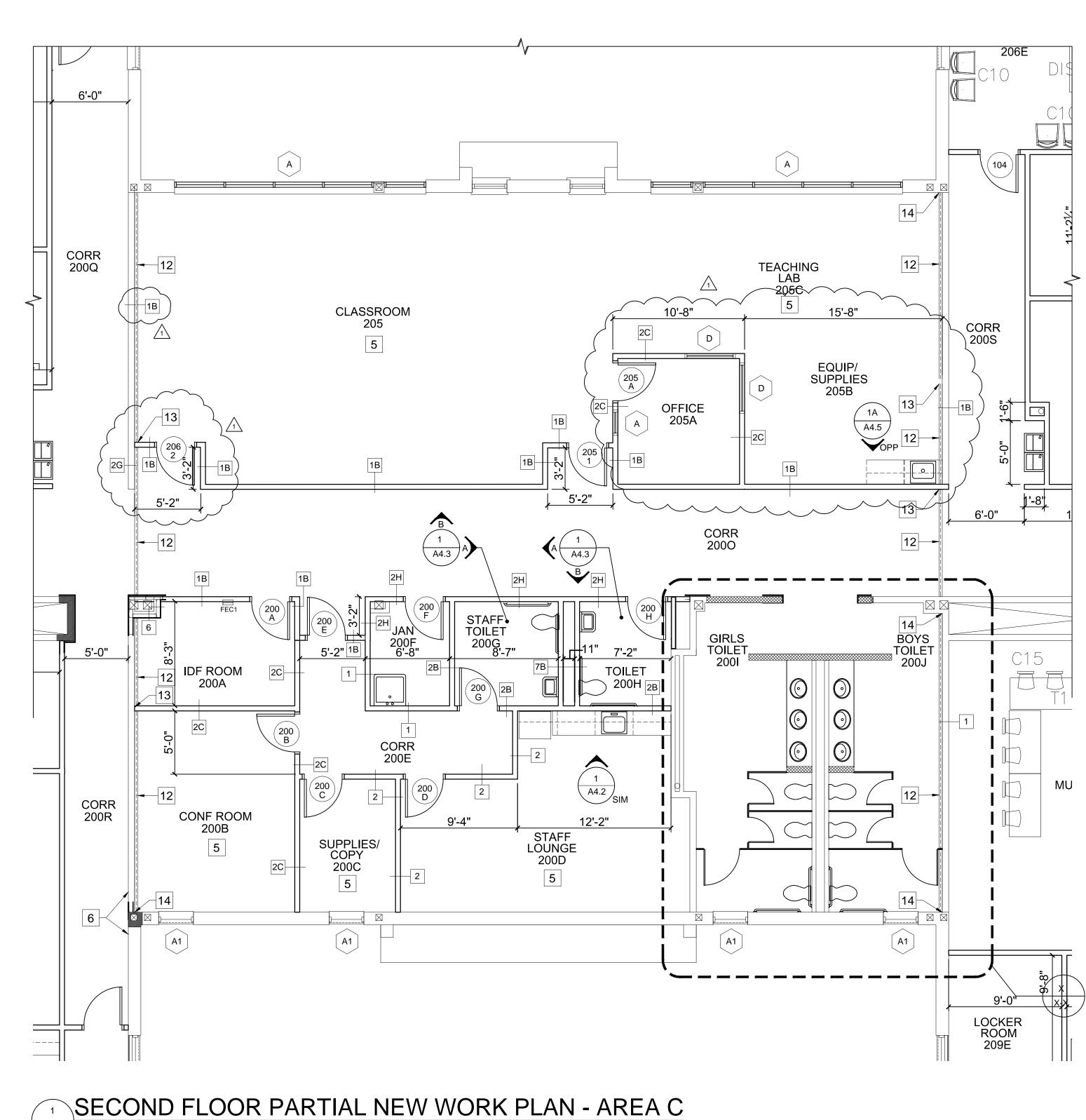




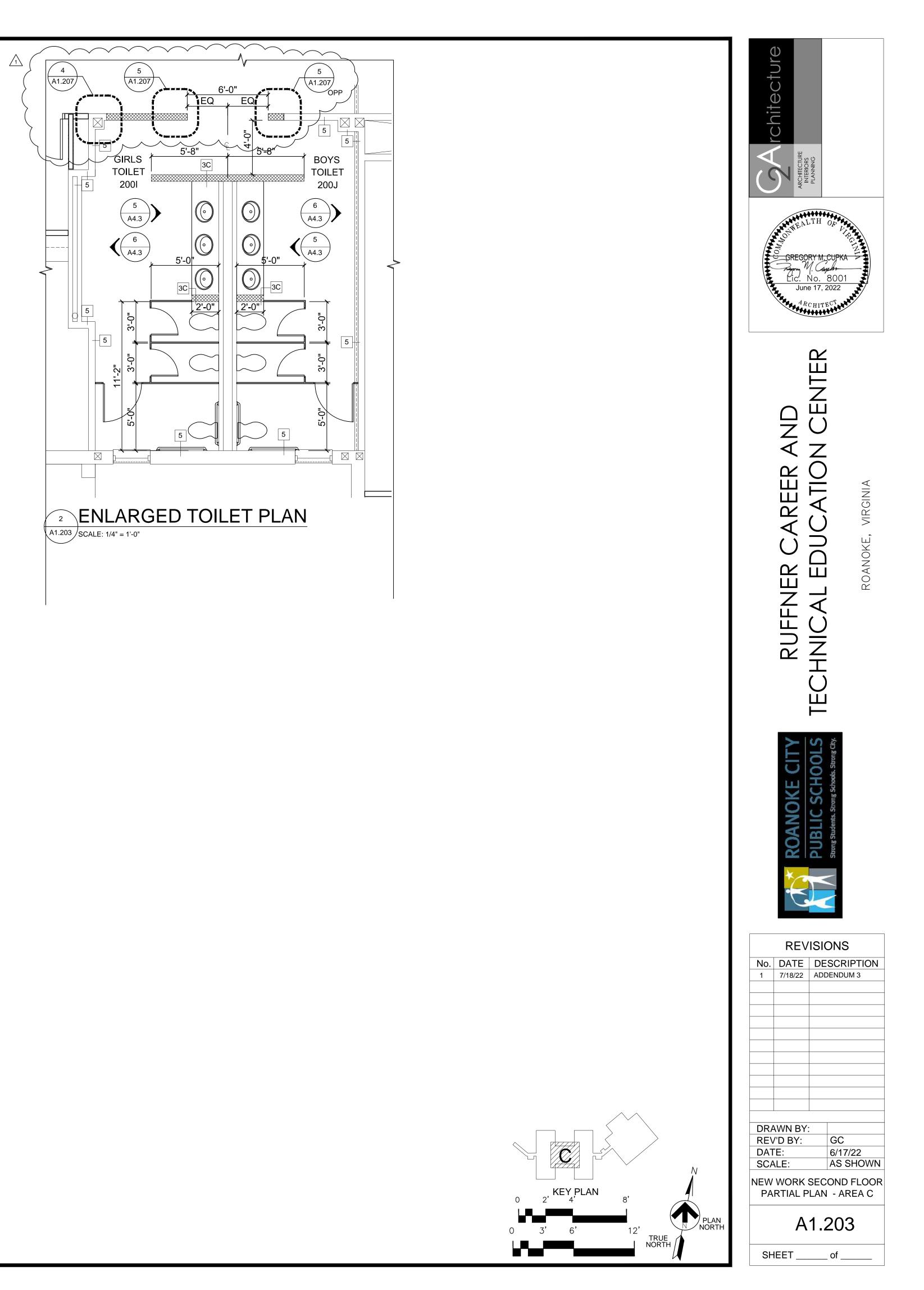


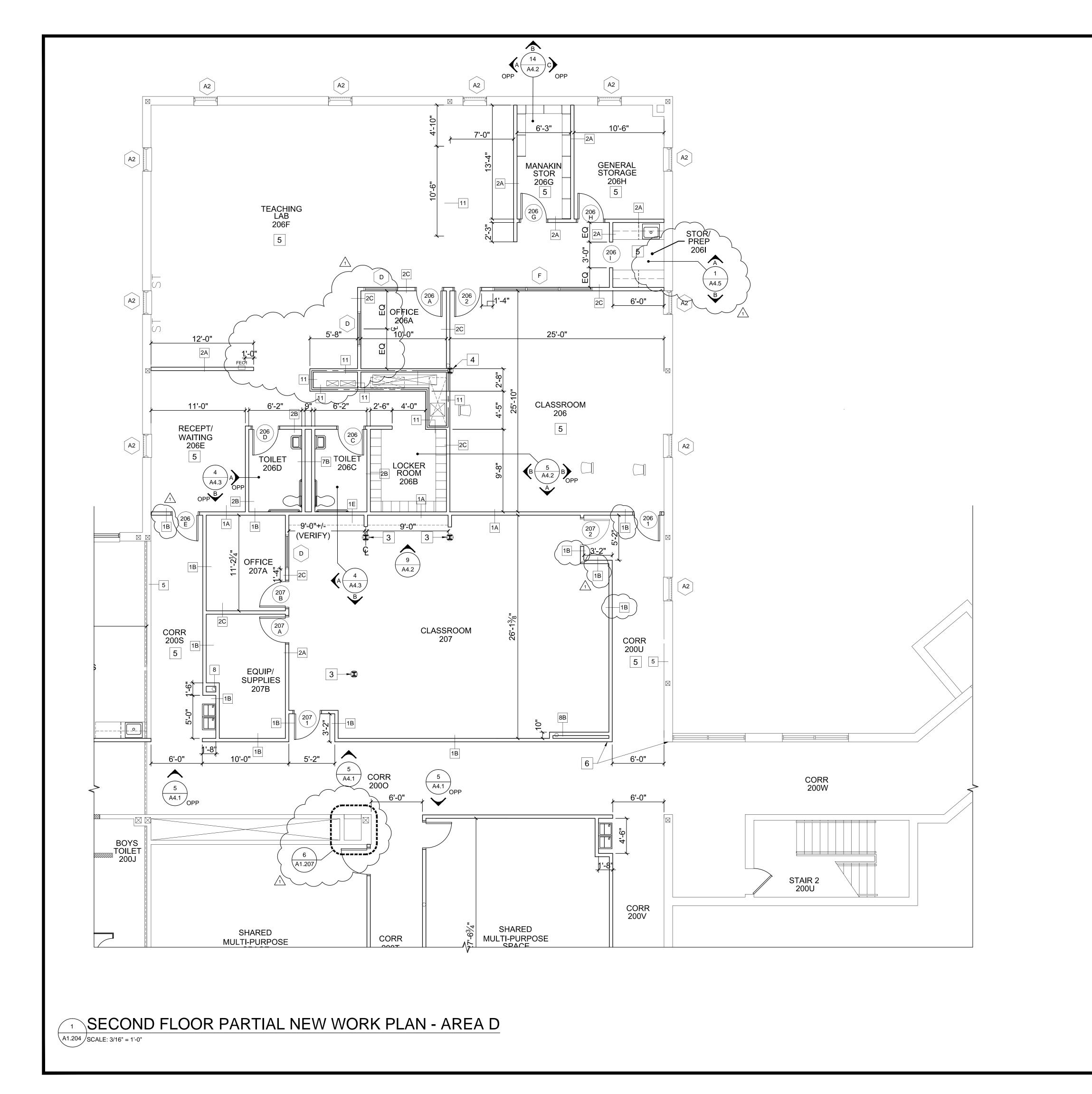




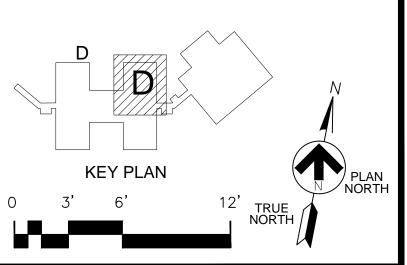


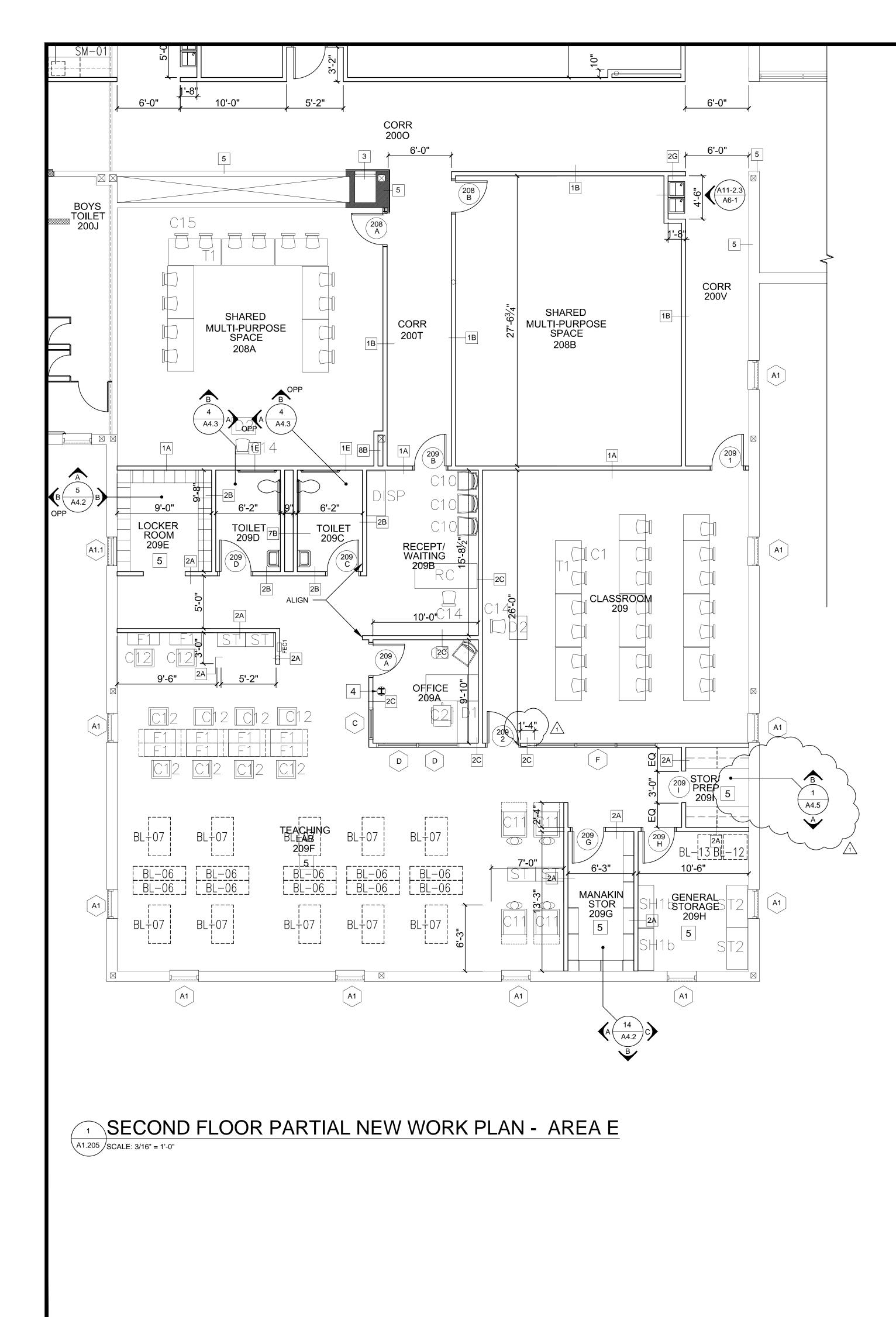
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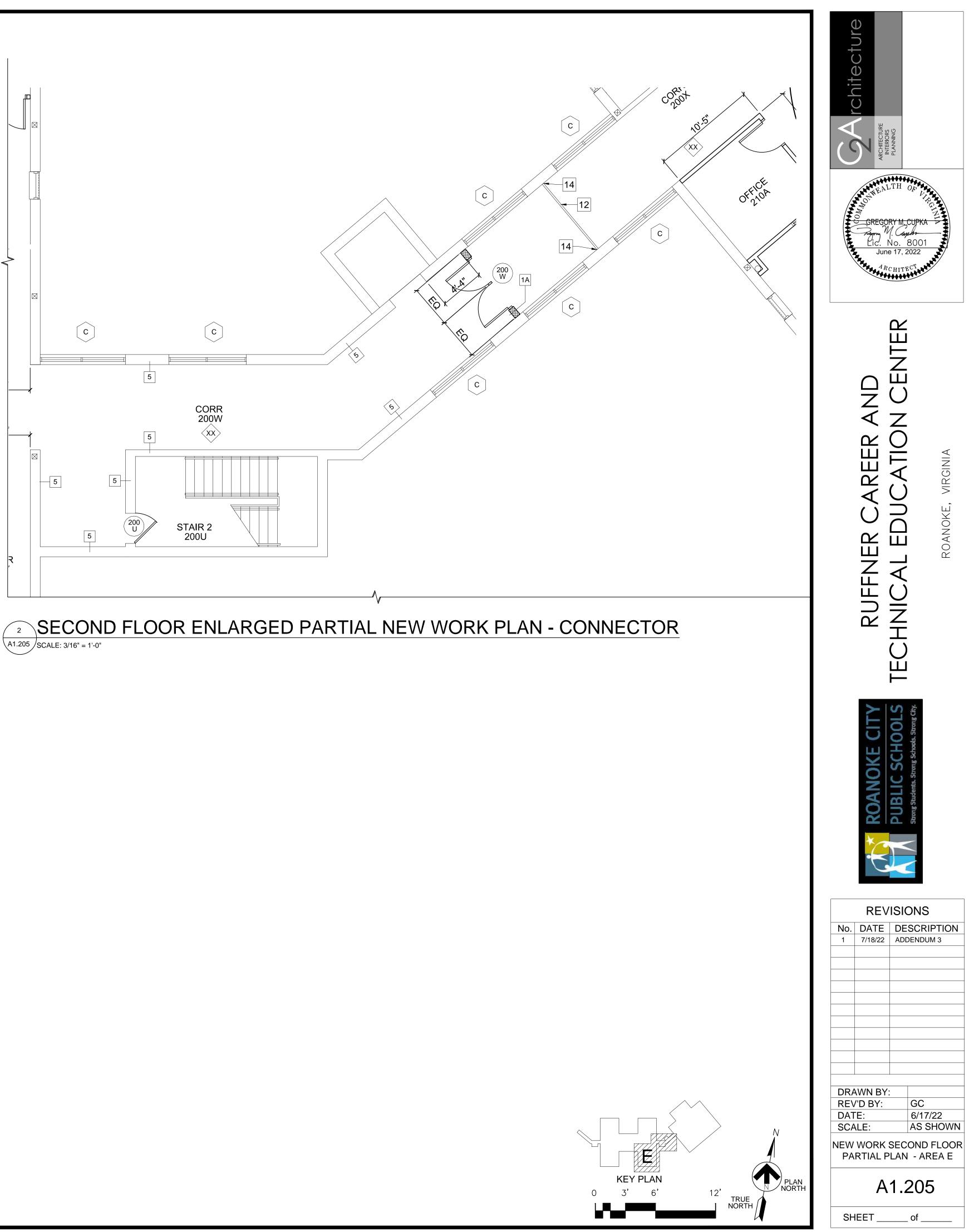


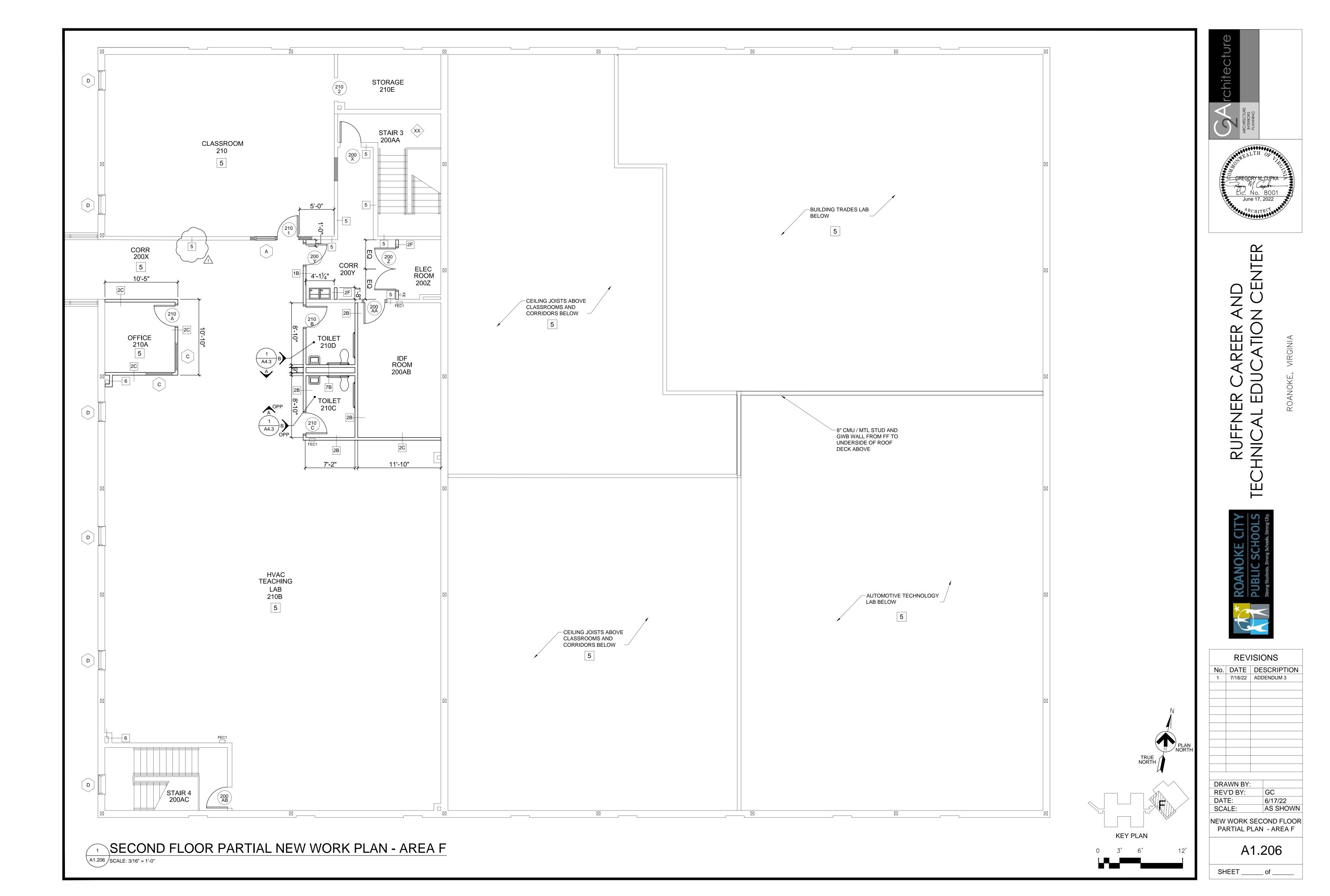


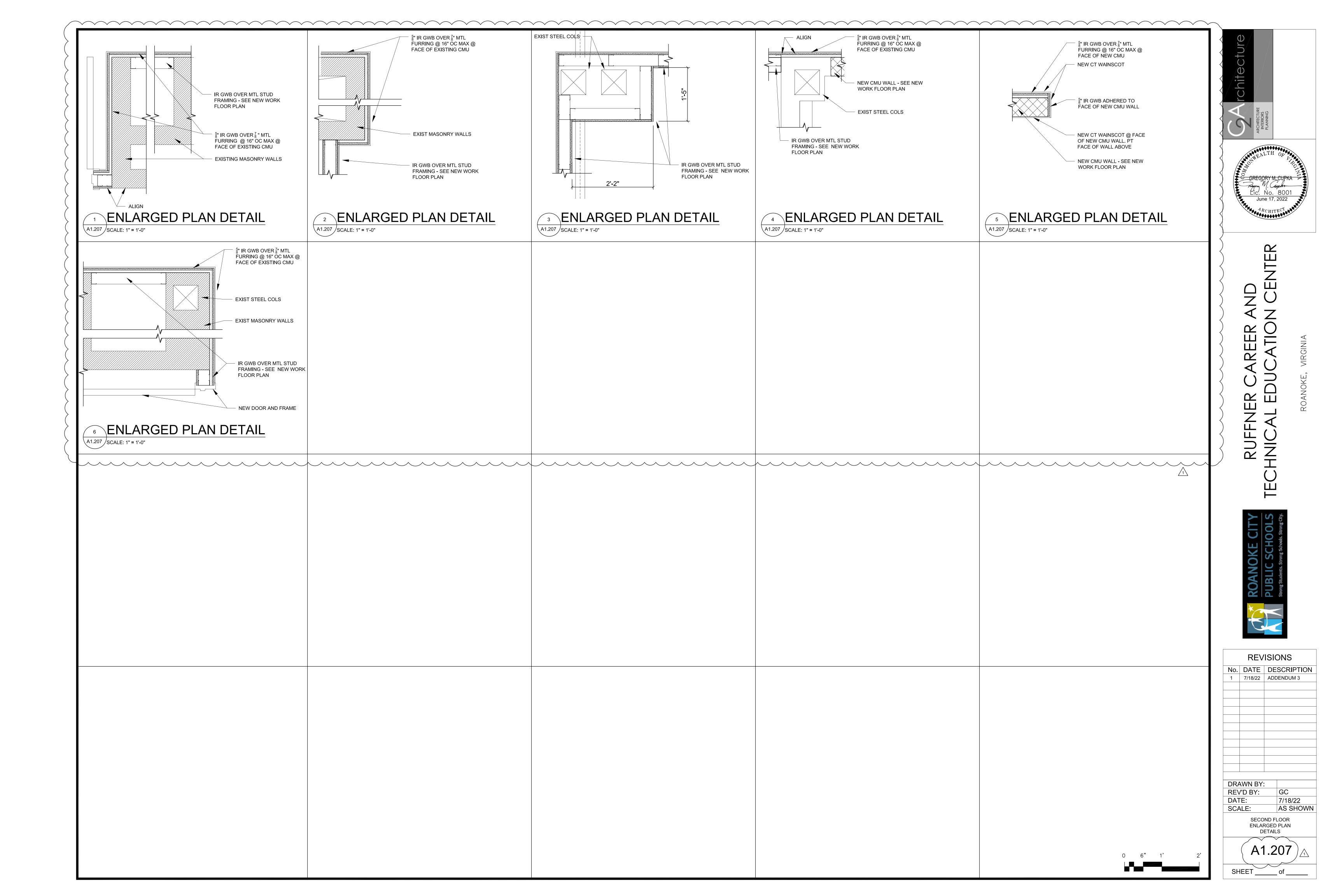


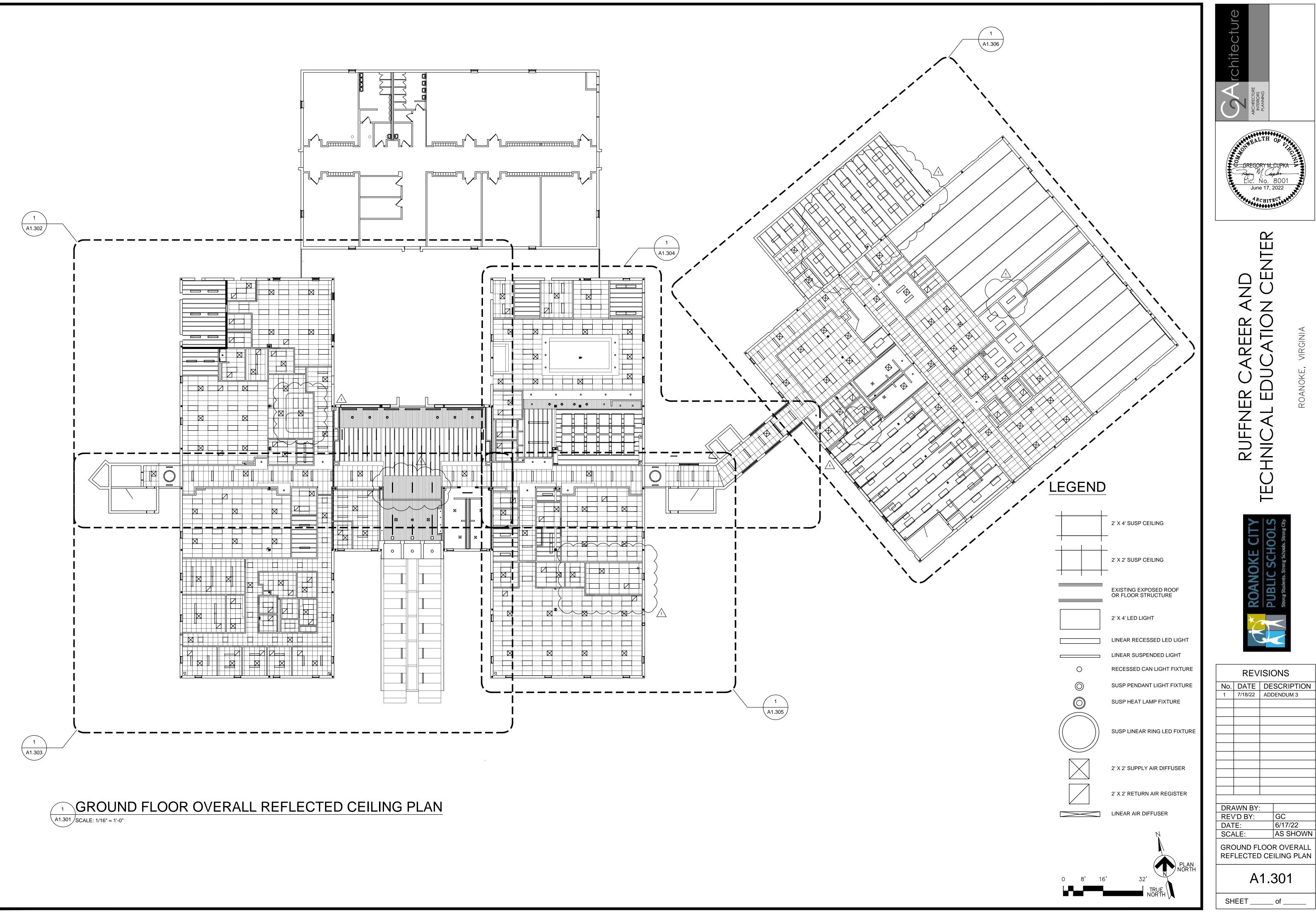


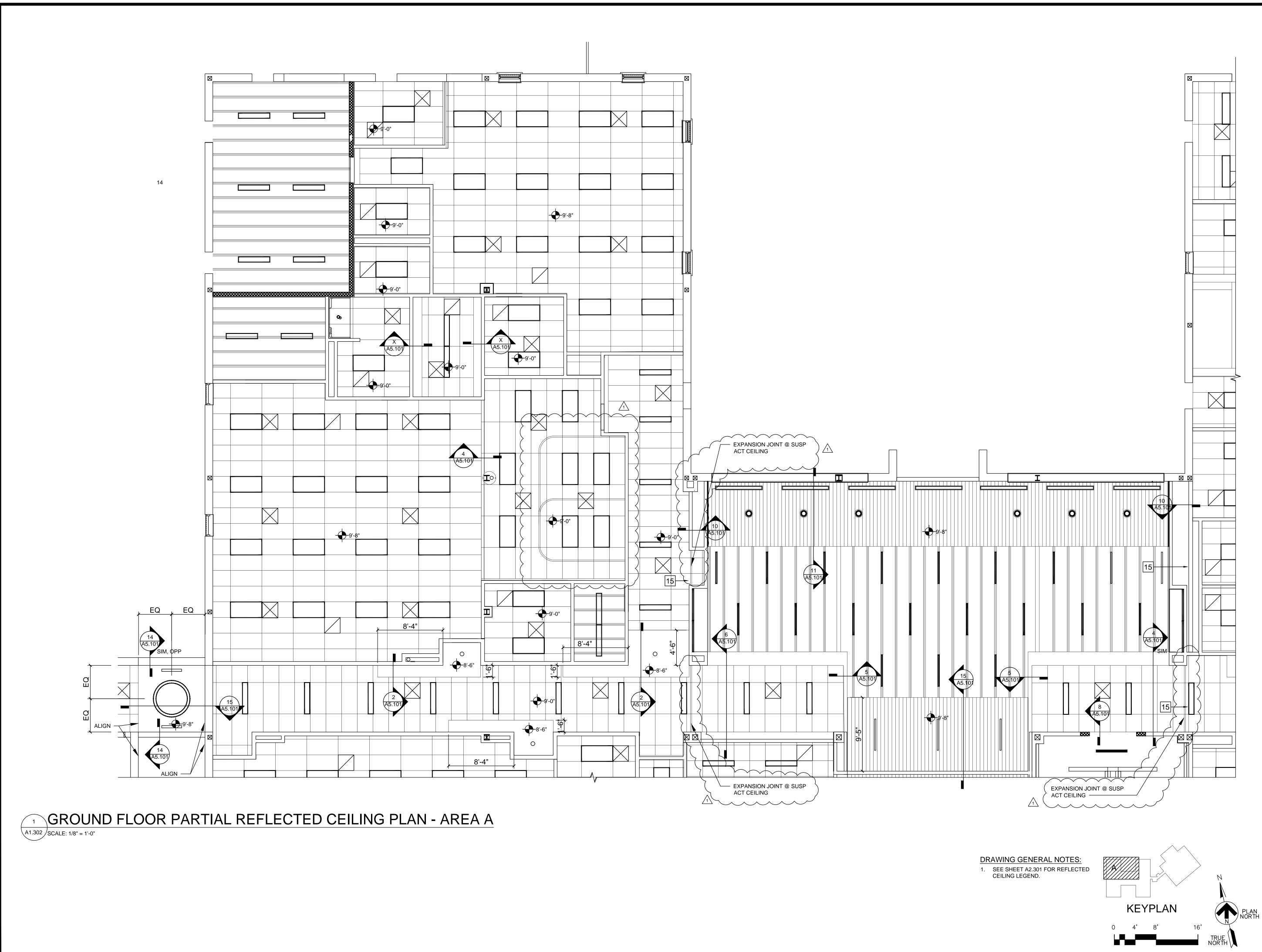


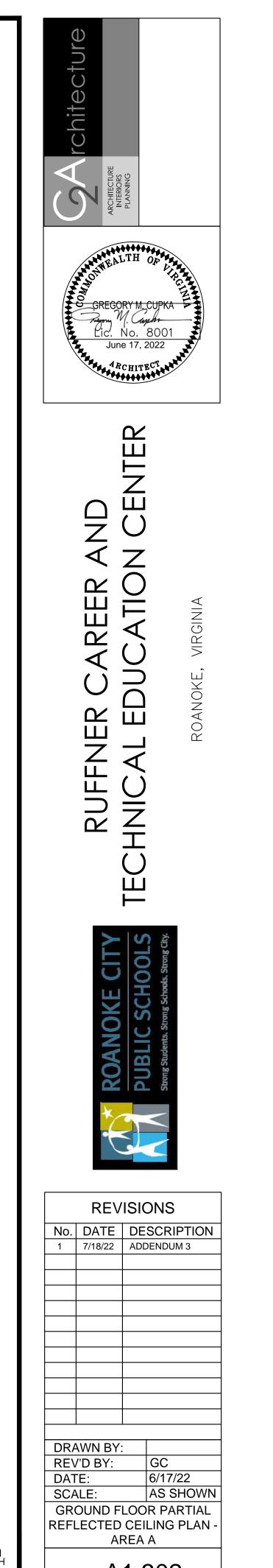






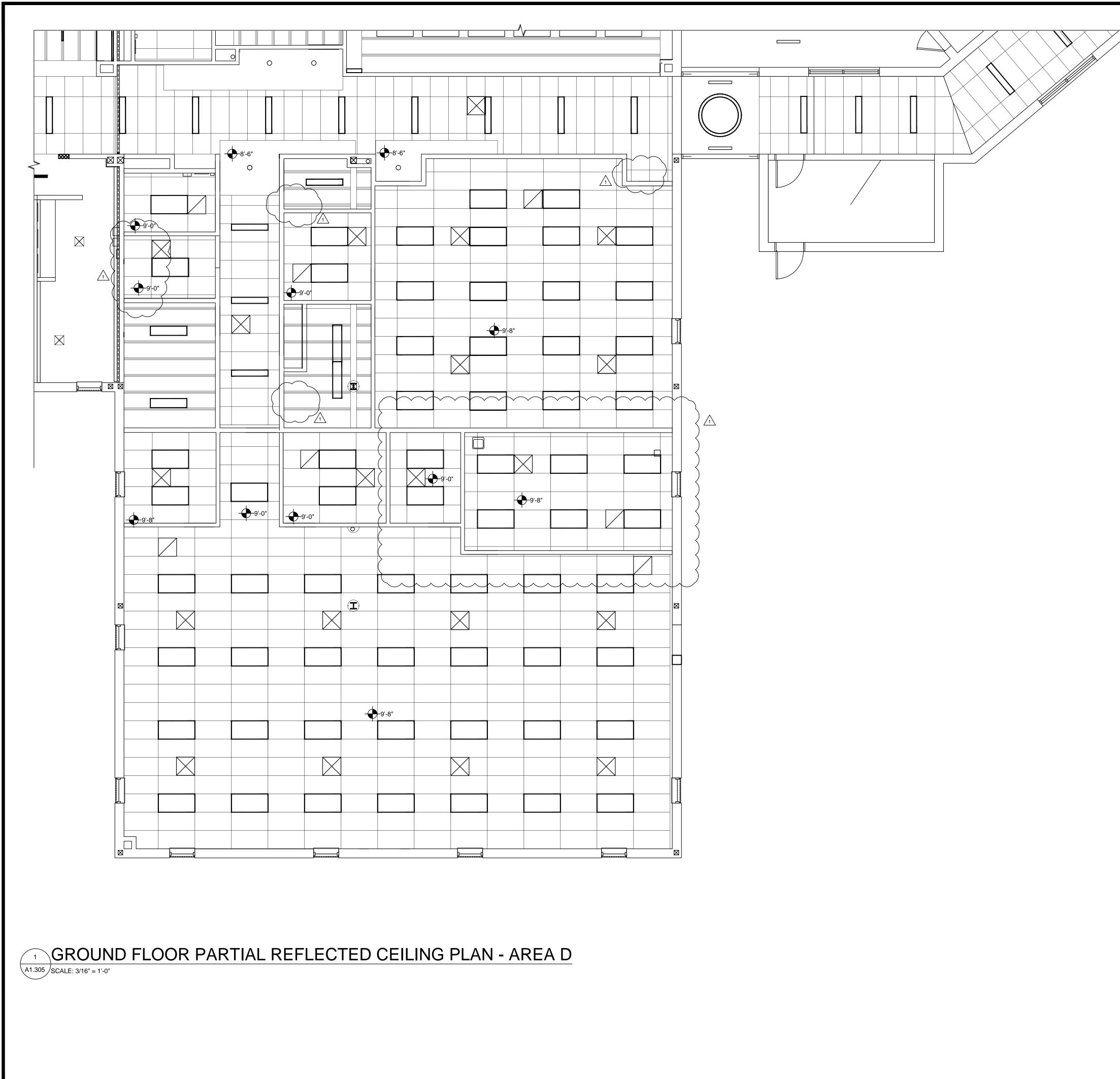




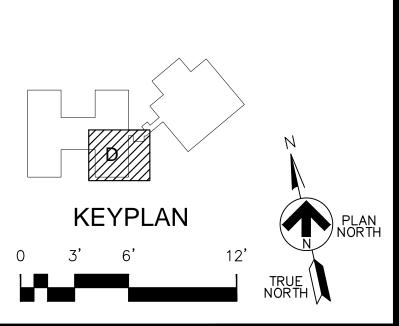


A1.302

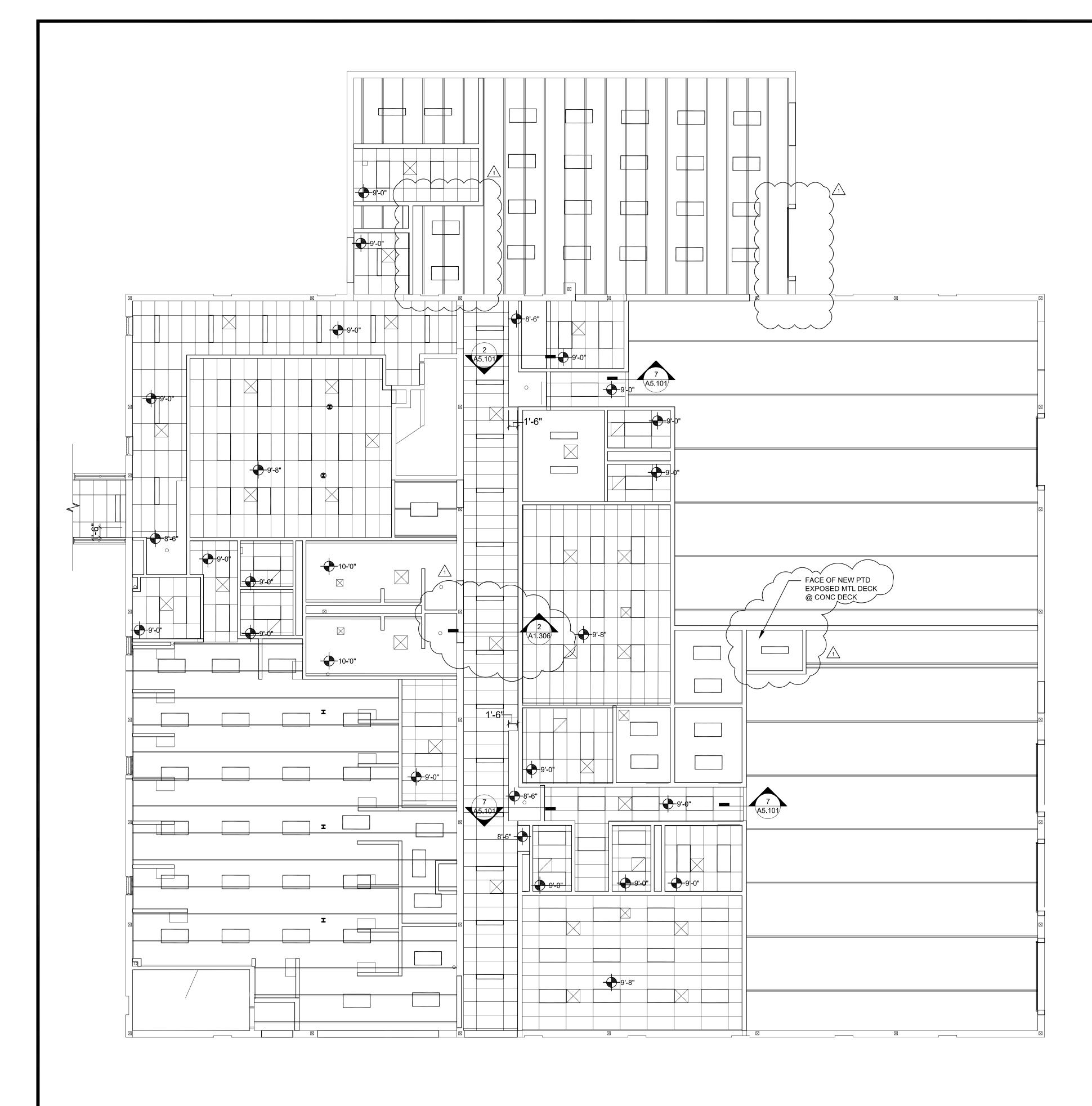
SHEET \_\_\_\_\_ of \_\_\_X\_\_\_



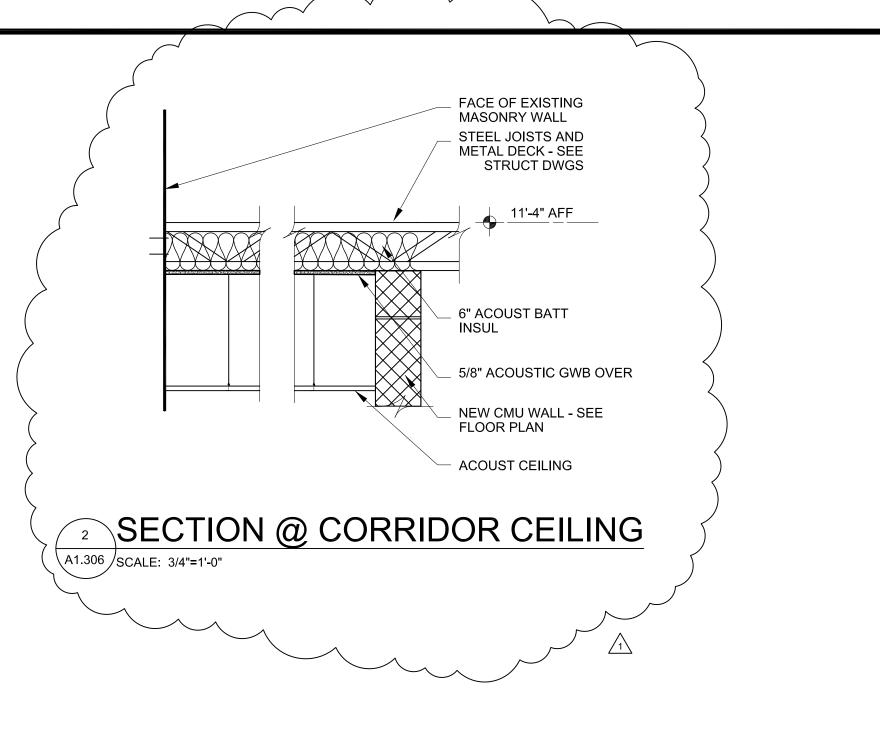




DRAWING GENERAL NOTES: 1. SEE SHEET A2.301 FOR REFLECTED CEILING LEGEND.



GROUND FLOOR PARTIAL REFLECTED CEILING PLAN - AREA E A1.306 SCALE: 1/8" = 1'-0"



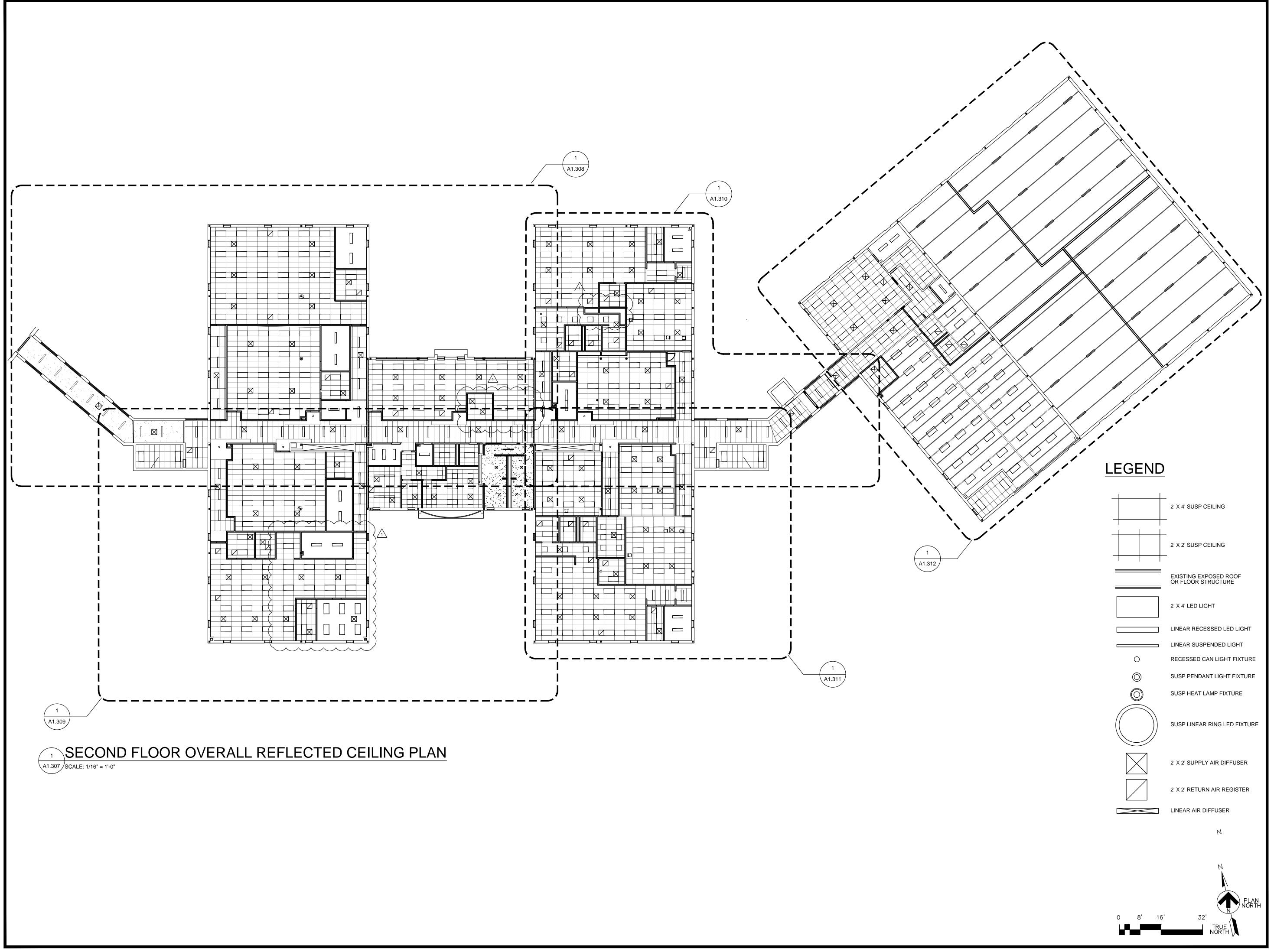


A1.306

SHEET \_\_\_\_\_ of \_\_\_\_

DRAWING GENERAL NOTES: 1. SEE SHEET A2.301 FOR REFLECTED CEILING LEGEND.

E KEYPLAN 

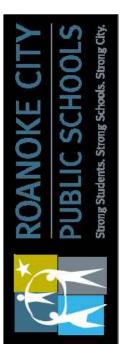


rchitecture Lic. No. 8001 June 17, 2022 ARCHITE CENTER CAREER AND JCATION CEN

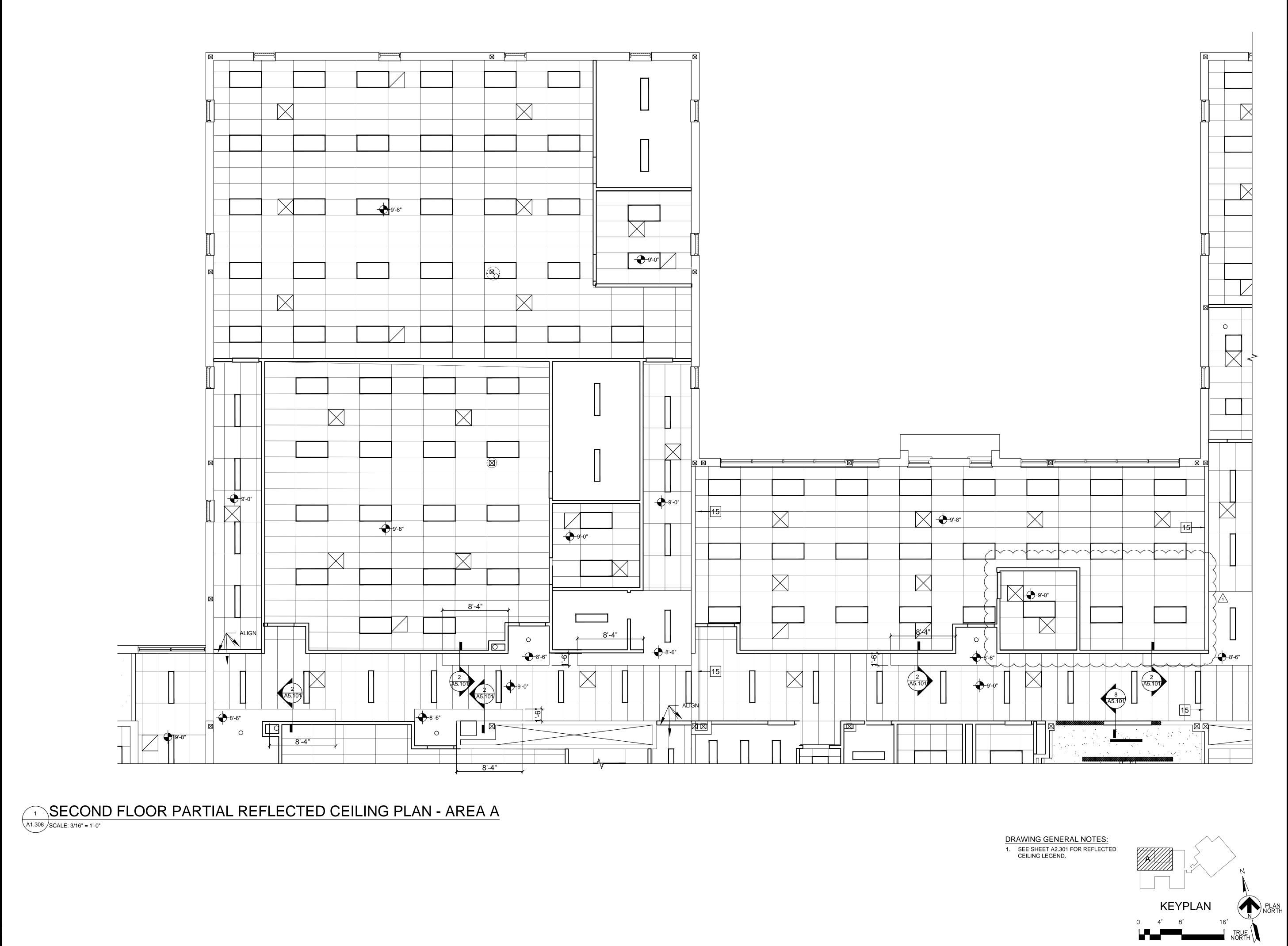
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 $\square$ 

O

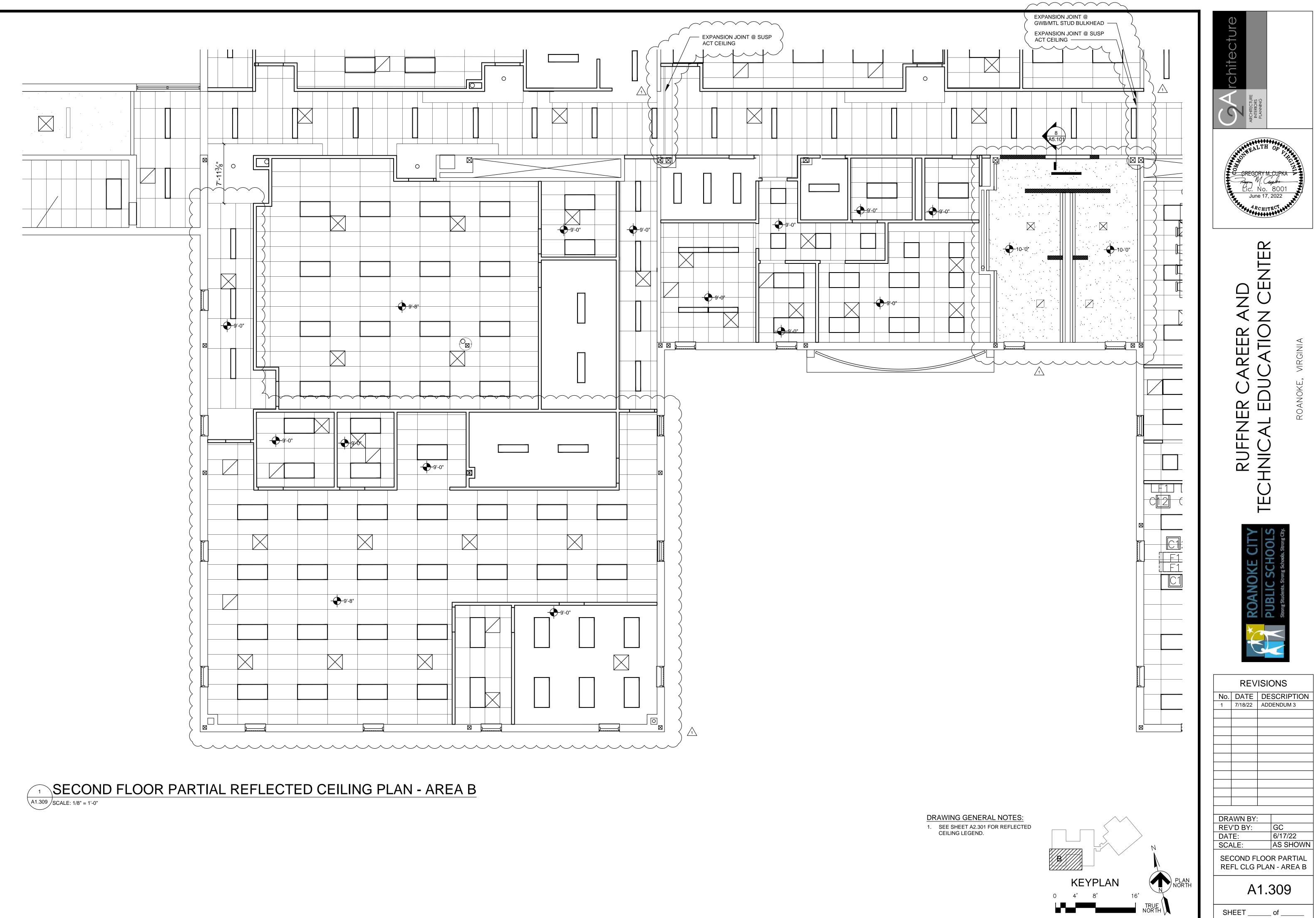


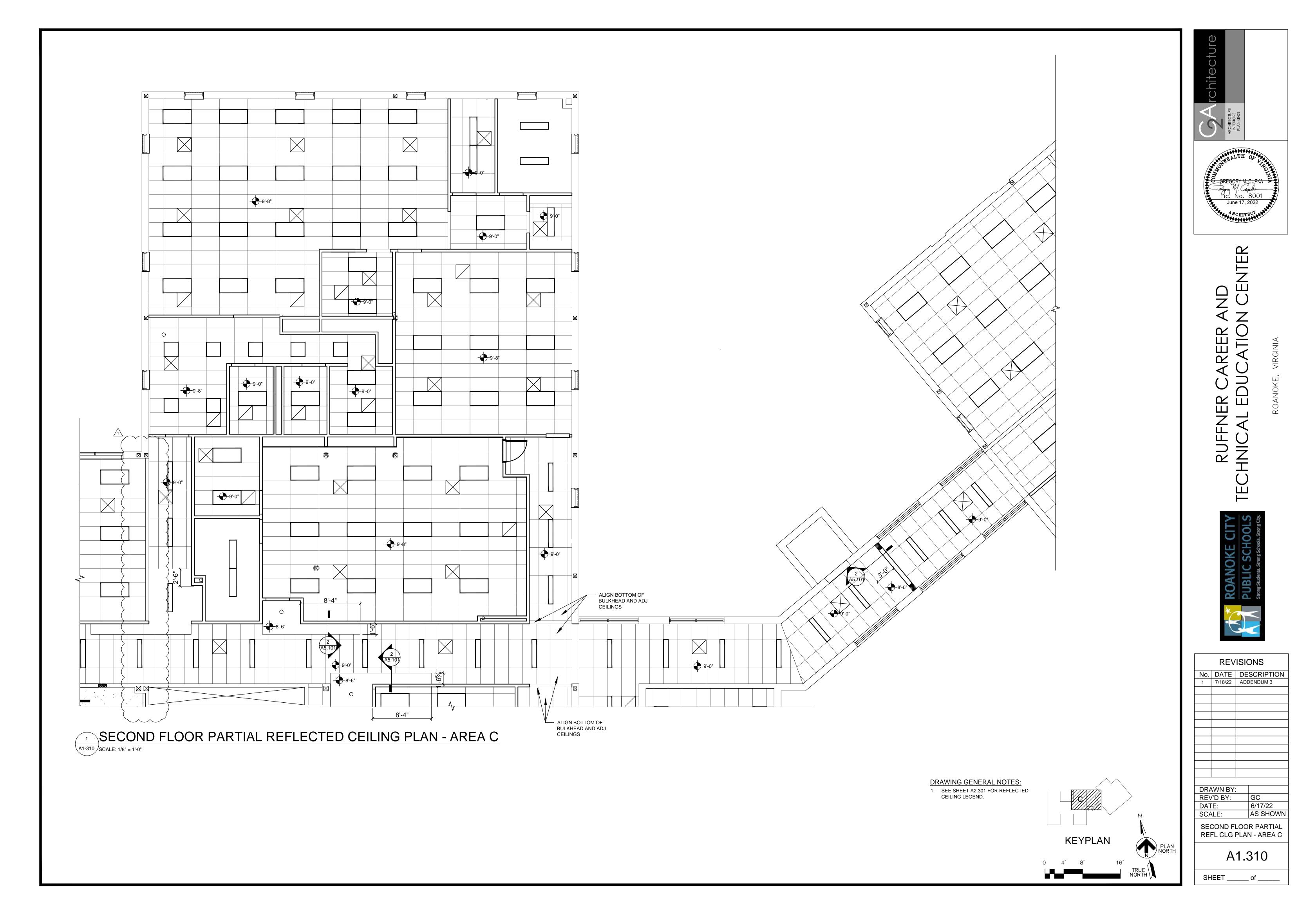
REVISIONS									
No.	DATE	DE	SCRIPTION						
1	7/18/22	ADD	ENDUM 3						
	WN BY:								
RE∖	/'D BY:		GC						
DAT			6/17/22						
SCA	ALE:		AS SHOWN						
SECOND FLOOR OVERALL									
REFLECTED CEILING PLAN									
A1.307									
SHEET of									

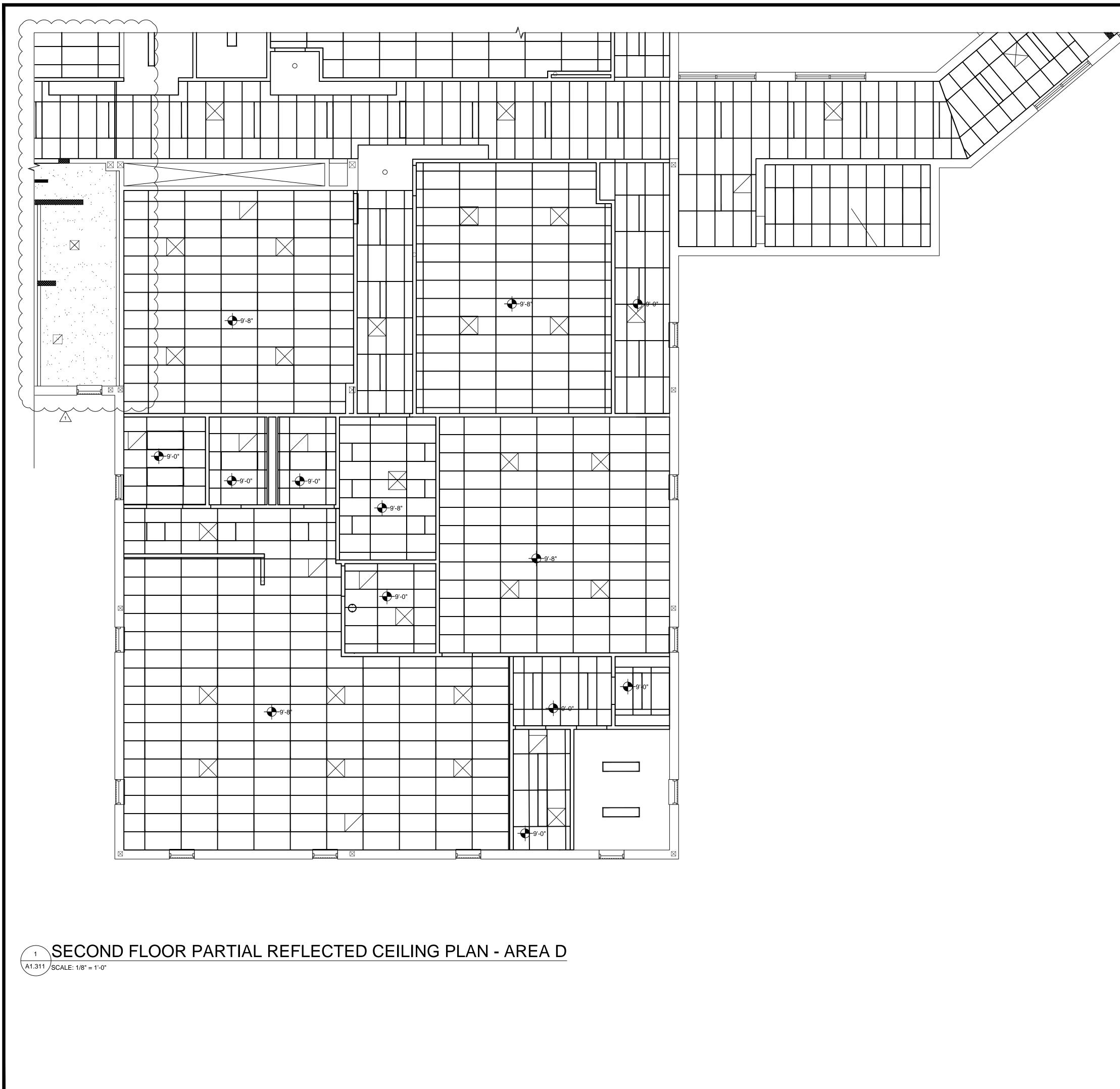




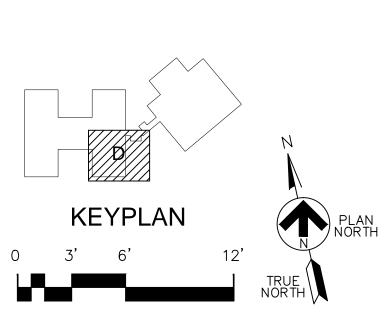
SHEET \_\_\_\_\_ of \_\_





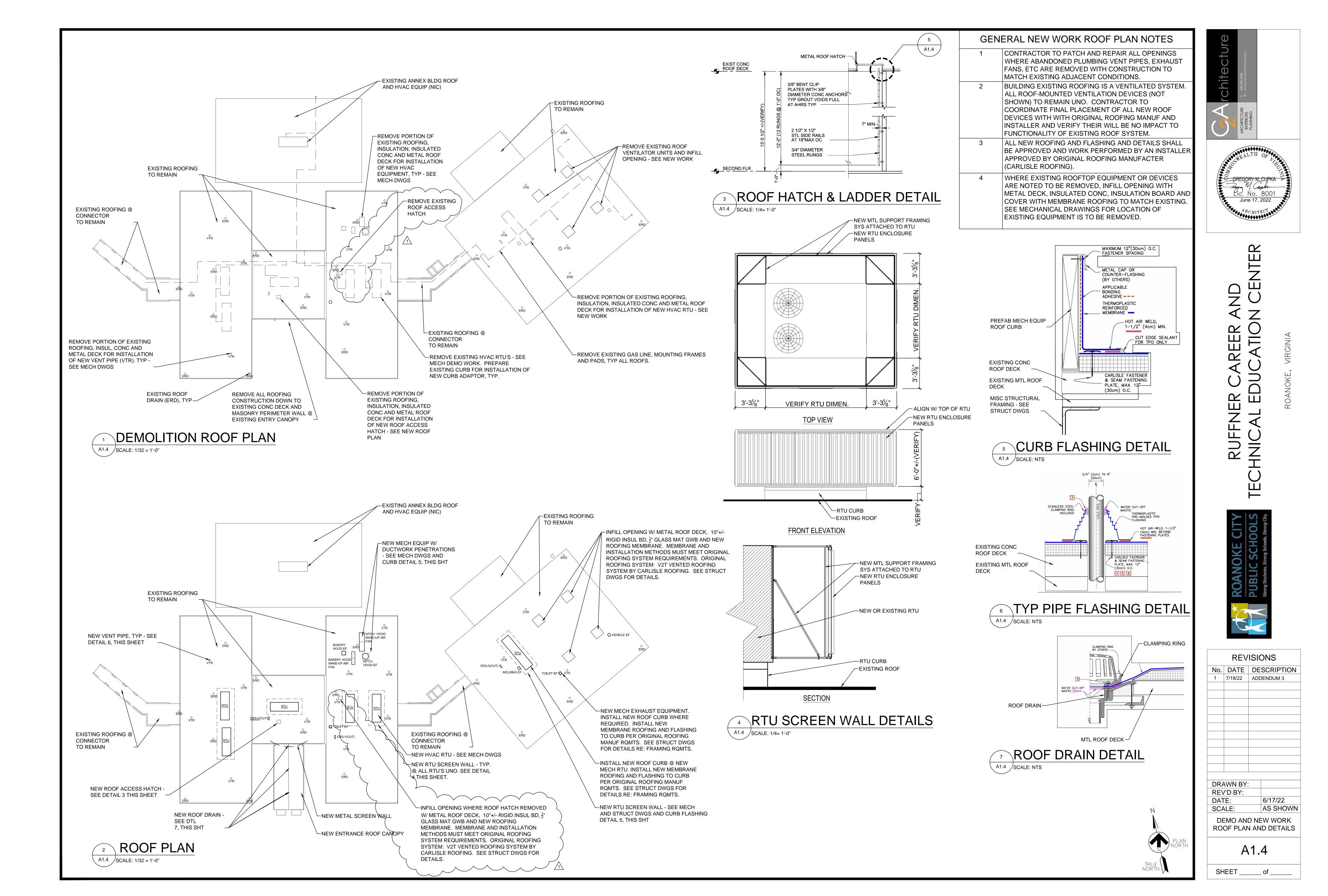


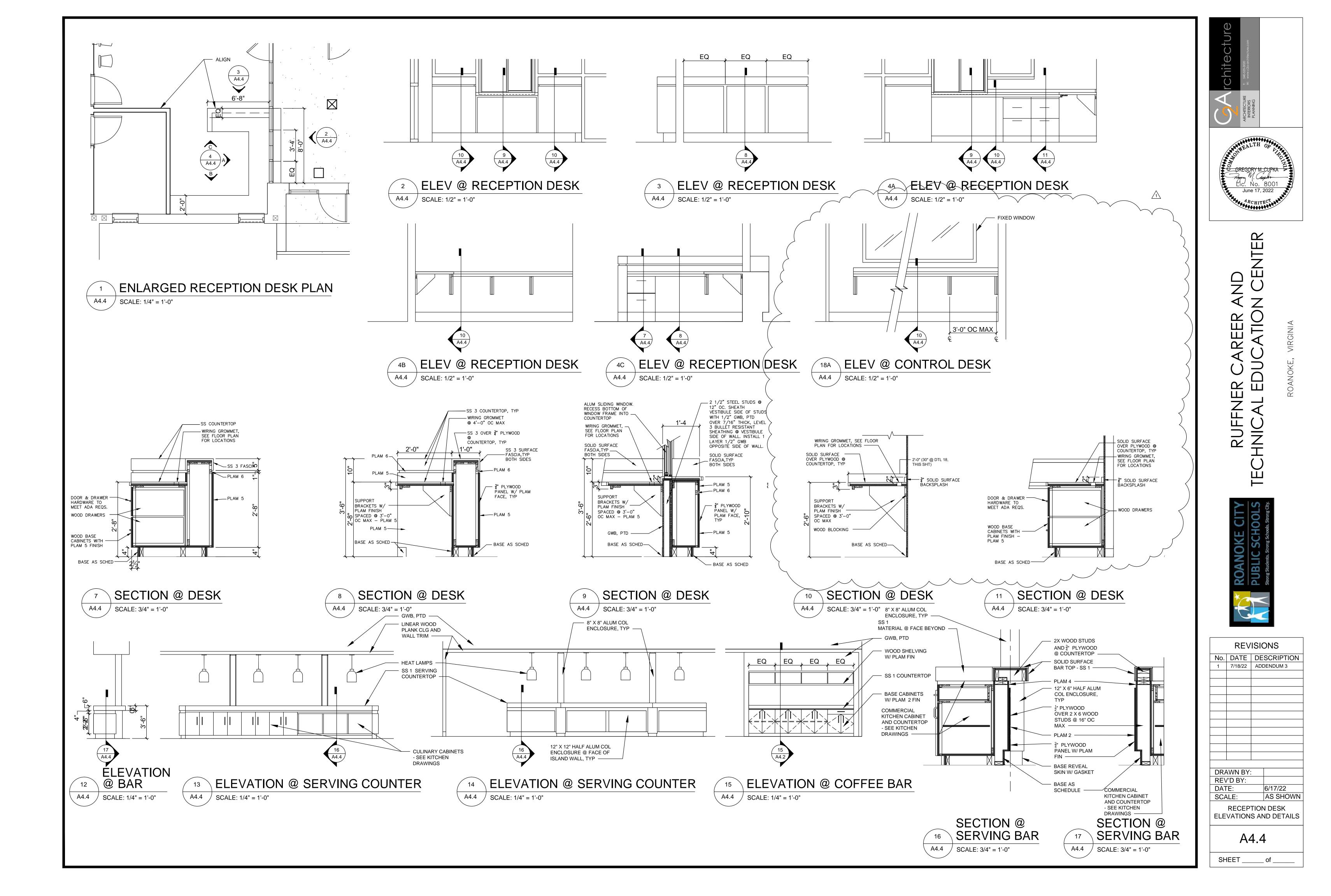


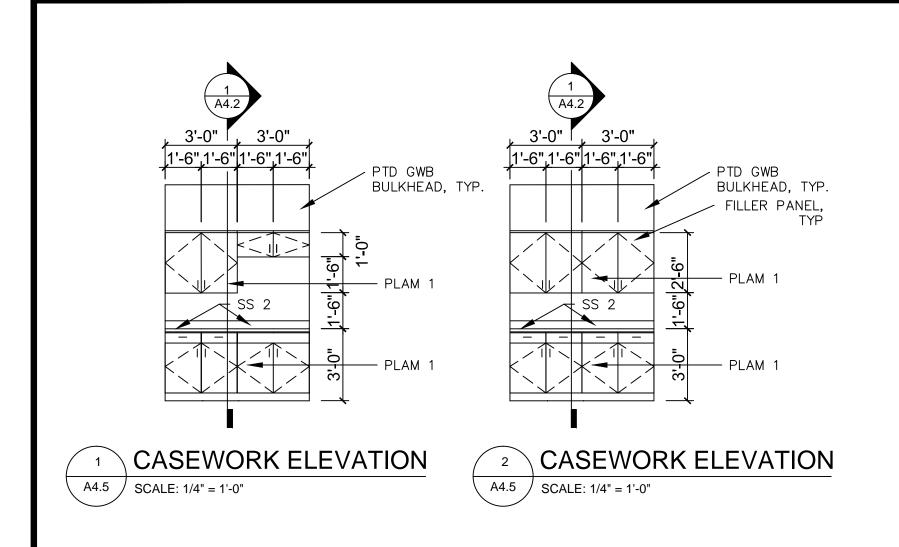


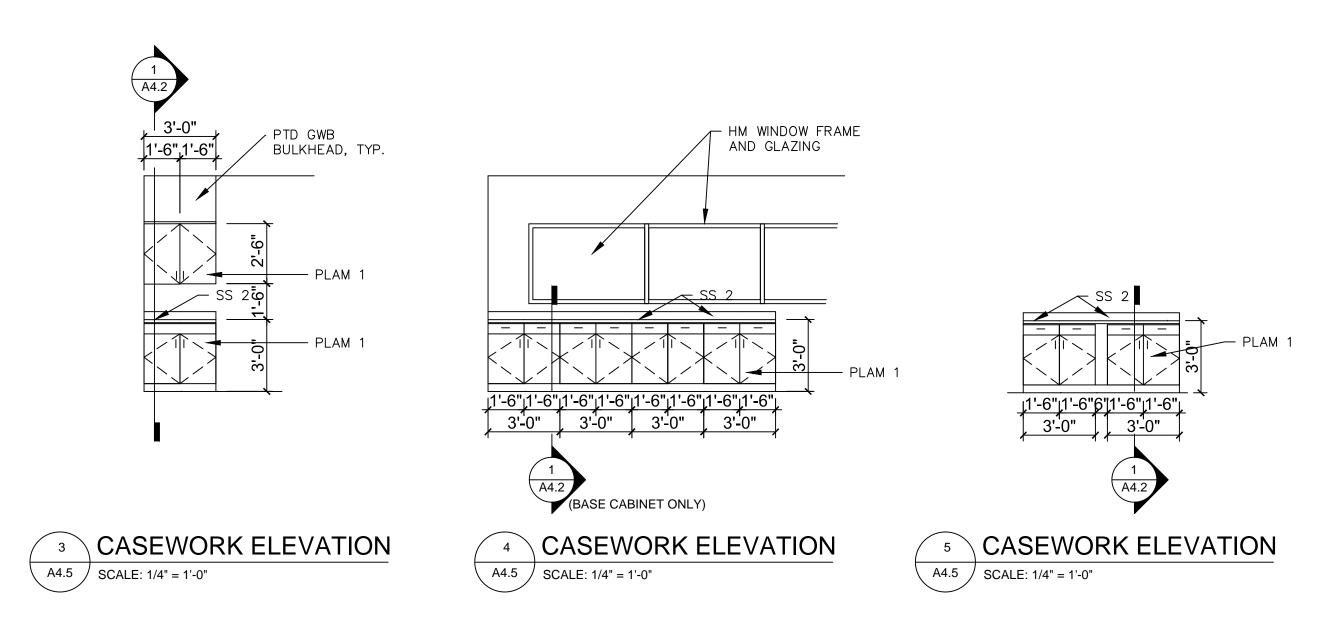
1. SEE SHEET A2.301 FOR REFLECTED CEILING LEGEND.

DRAWING GENERAL NOTES:

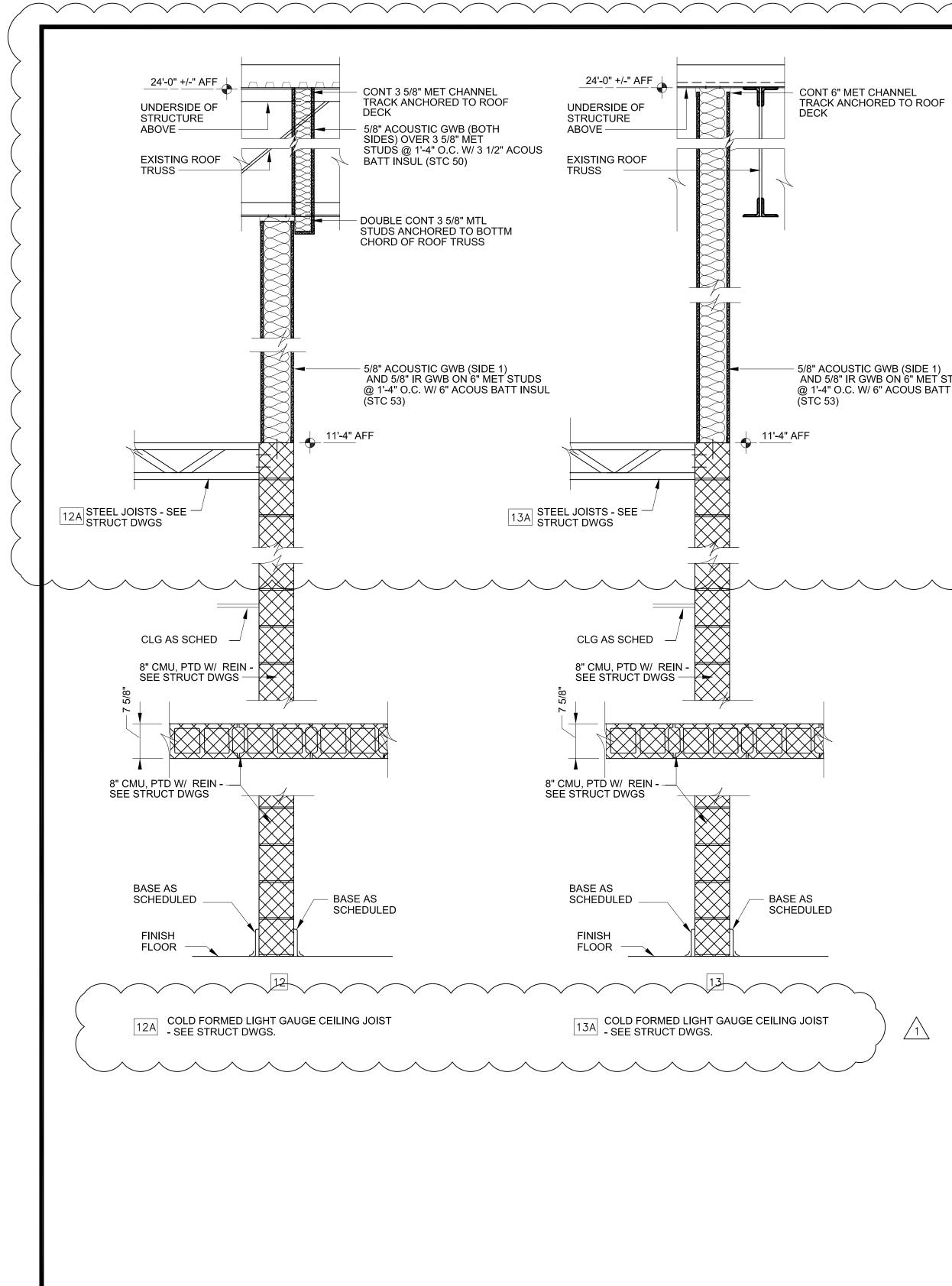












# CONT 6" MET CHANNEL TRACK ANCHORED TO ROOF – 5/8" ACOUSTIC GWB (SIDE 1) AND 5/8" IR GWB ON 6" MET STUDS @ 1'-4" O.C. W/ 6" ACOUS BATT INSU (STC 53)

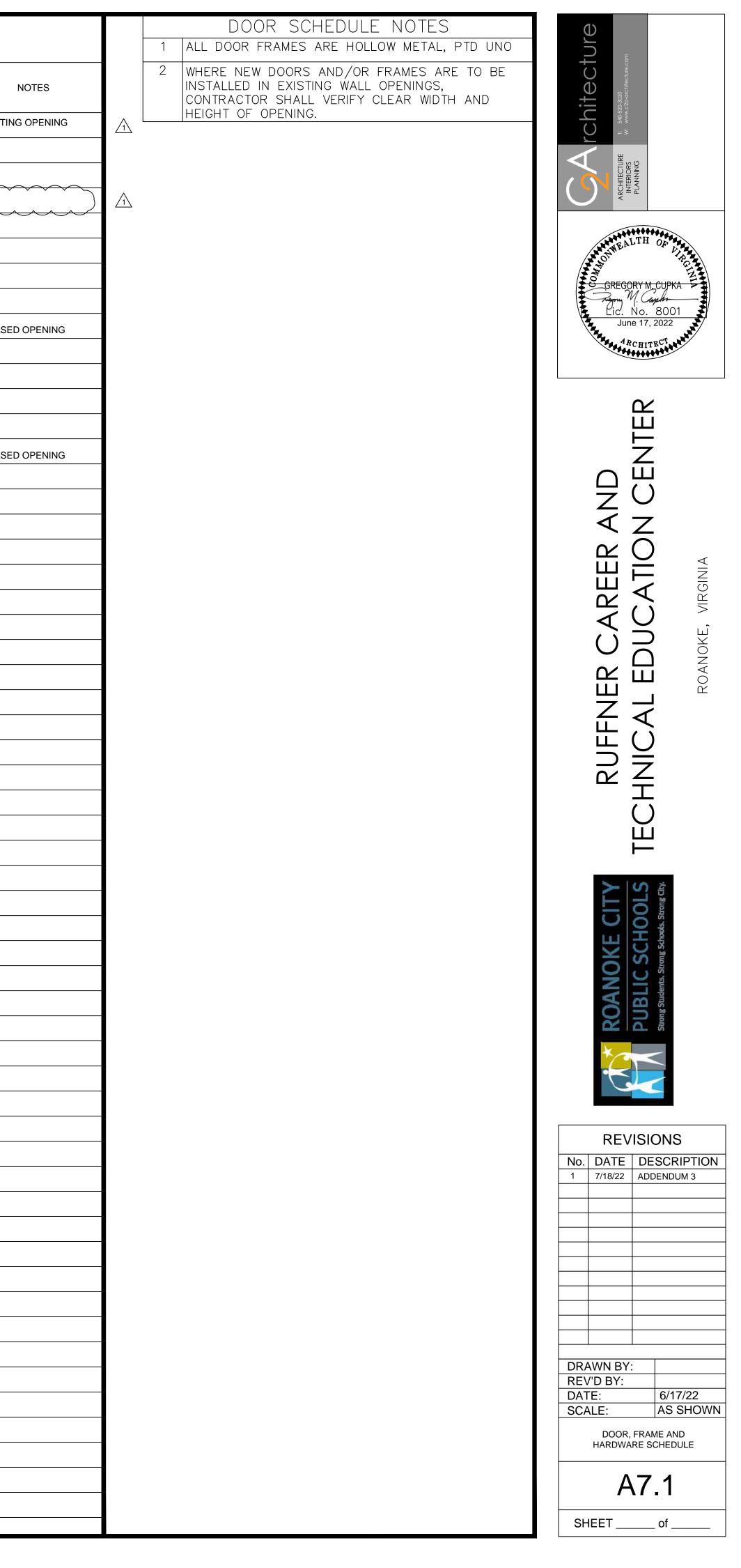
 $\underline{1}$ 

1

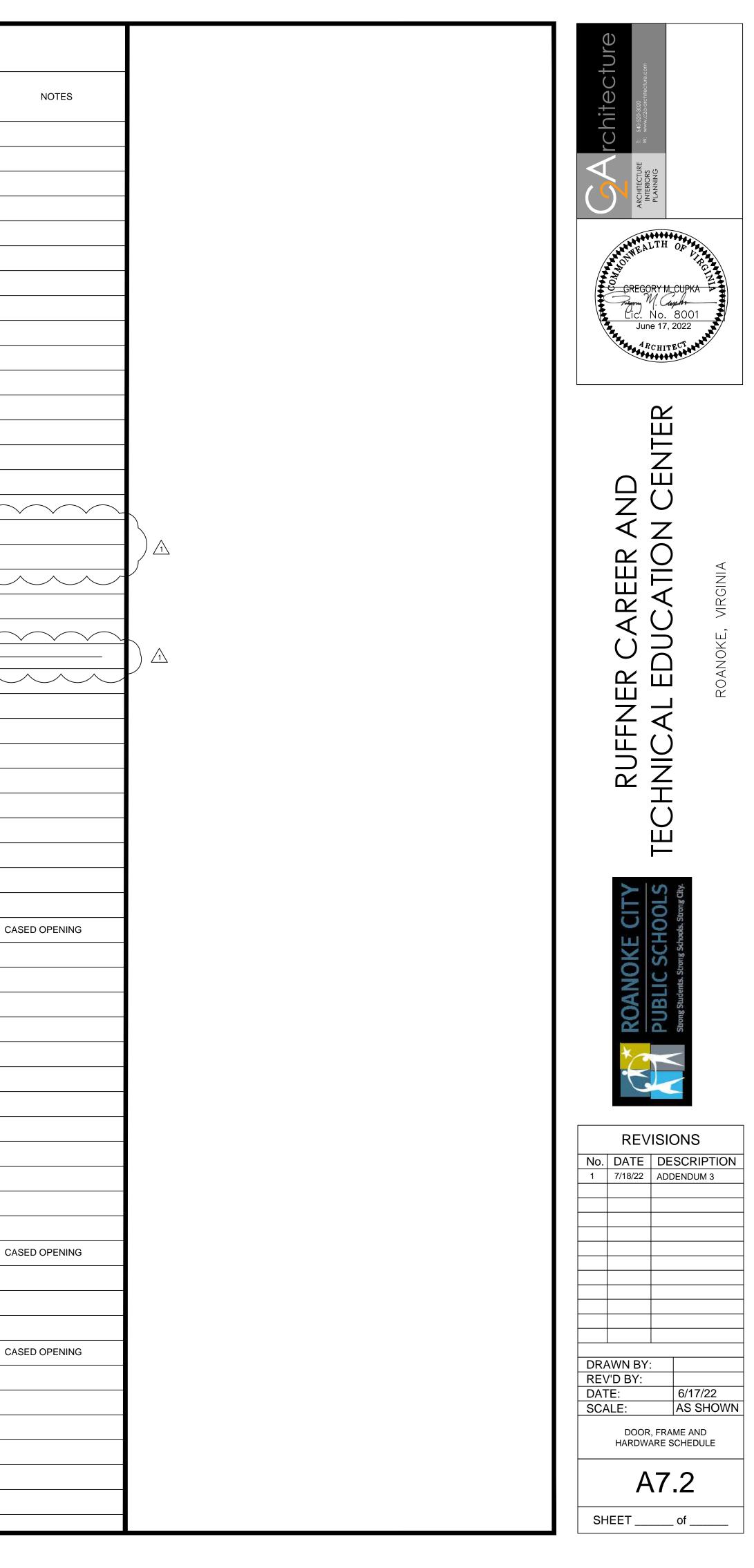


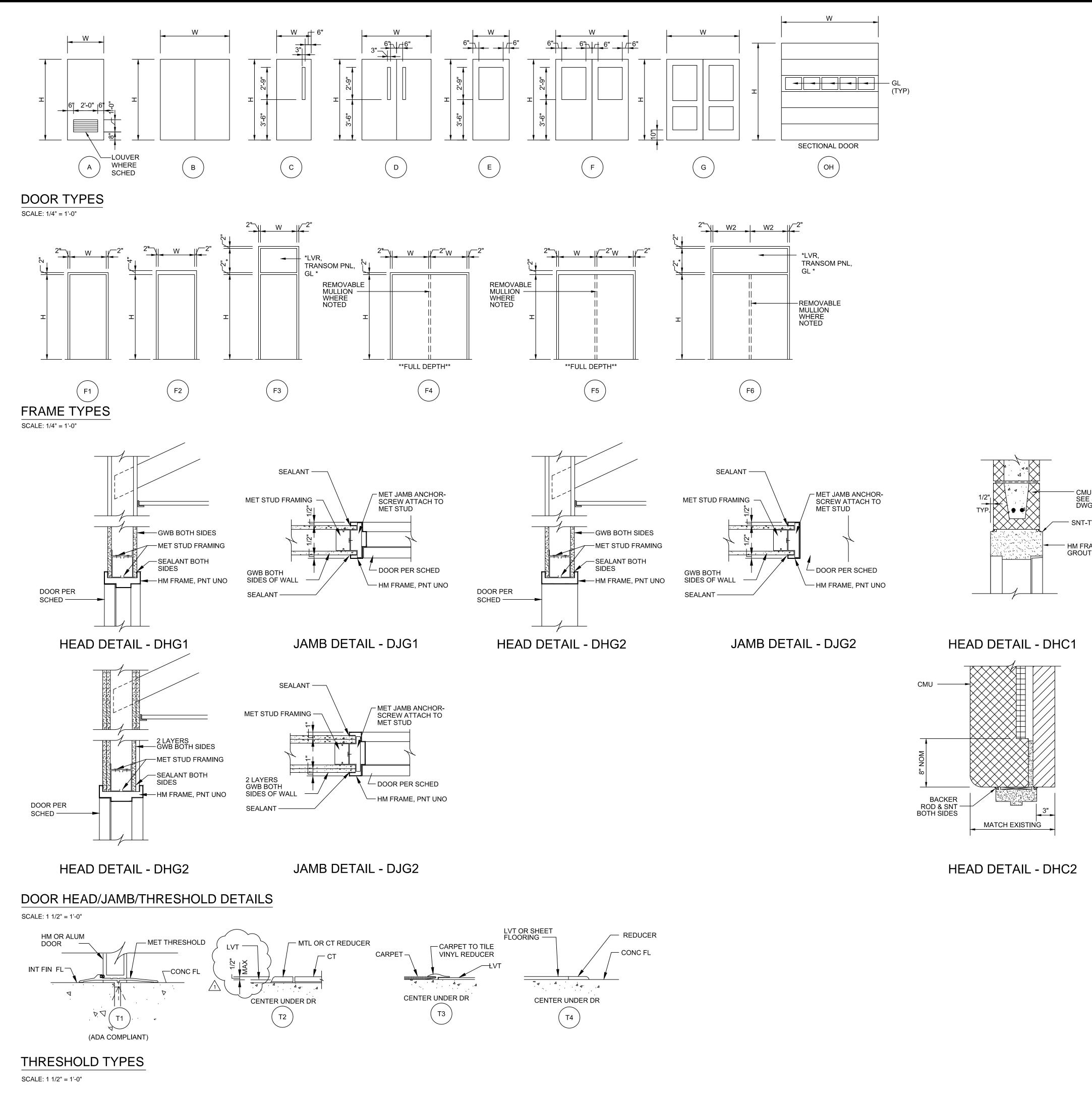
DOOR         NO       TYPE       MATL       SIZE W X H       Li C         100AA       H       ALUM       3'-0"x7'-0"       100AB         100AB       G       ALUM       6'-0"x7'-0"       100AC         100AC       H       ALUM       3'-0"x7'-0"       100AD         100AD       H       ALUM       6'-0"x7'-0"       100AC         100AE       E       HM       3'-0"x7'-0"       100AC	LOUVER OR UC GLASS - GL-4 - GL-4 - GL-4	FRAME TYPE A	DEPTH		· · · ·		.			DOOR						FRAME		JT.)					
100AA       H       ALUM       3'-0"x7'-0"         100AB       G       ALUM       6'-0"x7'-0"         100AC       H       ALUM       3'-0"x7'-0"         100AD       H       ALUM       6'-0"x7'-0"         100AE       E       HM       3'-0"x7'-0"	- GL-4 - GL-4	A		HEAD	JAMB	THRESH	FIRE RATING	HARD- WARE	NOTES	NO	TYPE	MATL	SIZE W X H	LOUVER OR UC	GLASS TYPE	TYPE	DEPTH	HEAD	JAMB	THRESH	FIRE RATING	HARD- WARE	N
100AC       H       ALUM       3'-0"x7'-0"         100AD       H       ALUM       6'-0"x7'-0"         100AE       E       HM       3'-0"x7'-0"			4 1/2"	-	-	T1	_	2	SEE ALUM STORFRT DTLS	100T	с {	HM	3'-0"x7'-0"	-	GL-1	F1	8 5/8" (VERIFY)	DHC1	DJC1	T4	45 MIN	x	EXISTING
100AD         H         ALUM         6'-0"x7'-0"           100AE         E         HM         3'-0"x7'-0"	- GL-4	В	4 1/2"	-	-	T1	-	1	SEE ALUM STORFRT DTLS	100U	В	WD	6'-0"x7'-0"	-	-	F5	6 5/8"	DHC1	DJC1	T4	-	25	
100AE E HM 3'-0"x7'-0"		с	4 1/2"	-	-	T1	-	2	SEE ALUM STORFRT DTLS	100V	В	WD	6'-0"x7'-0"	-	-	F5	8 5/8"	DHC1	DJC1	T4	-	25	~~~~
	- GL-4	D	4 1/2"	-	-	T1	-	1	SEE ALUM STORFRT DTLS 1" INSUL GLASS TRANSOM	$\mathbf{X}$	В	WD	7'-0"x7'-0"		-	F5	6 5/8"	DHC1				25	$\sim\sim\sim$
100AF E HM 3'-0"x7'-0"	- GL-2	F3	6"	DHC2	DJC2	T1	-	9	PANEL (GL-3) 1" INSUL GLASS TRANSOM	101	C	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8" 5 7/8"	DHG1 DHG1	DJG1 DJG1	-	-	12 13	
100AG H ALUM 6'-0"x7'-0"	- GL-2 - GL-4	F3	6" 4 1/2"	DHC2	DJC2	T1 T1	-	9	PANEL (GL-3) SEE ALUM STORFRT DTLS	101A 101B	C A	WD WD	3'-0"x7'-0"	- 3/4" U/C	GL-1	F1 F1	5 7/8"	DHG1	DJG1	-	-	8	
100AH H ALUM 6'-0"x7'-0"	- GL-4	D	4 1/2	-	-	 T1	-	1	SEE ALUM STORFRT DTLS	101D	A	WD	3'-0"x7'-0"	3/4" U/C	-	F1	5 7/8"	DHG1	DJG1	-	-	8	
100AI E HM 3'-0"x7'-0"	- GL-2	F3	6"	DHC2	DJC2	T1	-	9	1" INSUL GLASS TRANSOM PANEL (GL-3)	101D	-	-	_	-	-	F1	-	-	-	-	-		CASED
100AJ D HM 6'-0"x7'-0"	- GL-2	F5	6"	DHC2	DJC2	T1	-	27		101E	С	WD	3'-0"x7'-0"	-	GL-1	F1	8 5/8"	DHC1	DJC1	T4	-	x	
100AK E HM 3'-0"x7'-0"	- GL-2	F2	6"	DHC2	DJC2	T1	-	9		102	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12	
100AL E HM 3'-0"x7'-0"	- GL-2	F2	6"	DHC2	DJC2	T1	-	9		102A	С	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13	
100AM D HM 3'-0"x7'-0"	- GL-2	F5	6"	DHC2	DJC2	T1	-	19		102B	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12	
100AN E HM 3'-0"x7'-0"	- GL-2	F2	6"	DHC2	DJC2	T1	-	9	SEE ALUM STORFRT DTLS	102C		-		-	-	F1	- 5 7/8"	- DHG1	- DJG1	-	-	8	CASED
100AO         H         ALUM         6'-0"x7'-0"           100AP         H         ALUM         6'-0"x7'-0"	- GL-4	D	4 1/2"	-	-	T1	-	1	SEE ALUM STORFRT DTLS	102D 102E	A B	WD WD	3'-0"x7'-0"	3/4" U/C	-	F1	5 7/8"	DHG1	DJG1	-	-	14	
100AP H ALOM 0-0 X7-0 100AQ E HM 3'-0"x7'-0"	- GL-4 - GL-2	D F3	4 1/2" -	-	-			9	1" INSUL GLASS TRANSOM PANEL (GL-3)	102E			ELEC ROOM)	-	-	F4					-		
100AR D HM 3'-0"x7'-0"	- GL-2	F6	6"	DHC2	DJC2	T1	_	19		102G	NOT US		,										
100AS D HM 6'-0"x7'-0"	- GL-2	F5	6"	DHC2	DJC2	T1	-	19		103-1	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	_	12	
100AT OH ALUM 10'-0" X 10'-0"	- GL-3	-	-	-	-	-	-	23		103-2	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12	
100AU D HM 6'-0"x7'-0"	- GL-2	F5	6"	DHC2	DJC2	T1	-	19		103A	А	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13	
100AV OH ALUM 10'-0"W X 12'-0"H	- GL-3	-	-	-	-	-	-	23		103B	В	WD	6'-0"x7'-0"	-	-	F4	5 7/8"	DHG1	DJG1	-	-	14	
100AW E HM 3'-0"x7'-0"	- GL-2	F2	6"	DHC2	DJC2	T1	-	9		104	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1 DHG1	DJG1 DJG1	T3	-	11 5	
100AX OH ALUM 10'-0"W X 12'-0"H	- GL-3	-	-	-	-	-	-	23 19		104A 104B	c	WD	3'-0"x7'-0"	-	GL-1 GL-1	F1	5 7/8" 5 7/8"	DHG1	DJG1	T3	-	5 10	
100AY         D         HM         6'-0"x7'-0"           100AZ         E         HM         3'-0"x7'-0"	- GL-2 - GL-2	F5 F2	6"	DHC2 DHC2	DJC2 DJC2	T1 T1	-	9		104B	C A	WD WD	3'-0"x7'-0"	-	GL-1	F1 F1	5 7/8"	DHG1	DJG1	-	-	10	
100AZA E HM 3'-0"x7'-0"	- GL-2	F2	6"	DHC2	DJC2	T1	-	9		104D	A	WD	3'-0"x7'-0"	-		F1	5 7/8"	DHG1	DJG1	T3	-	6	
100AZB OH ALUM 10'-0" X 10'-0"	- GL-3	-	-	-	-	x	_	x		104E	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	T3	-	5	
100AB A WD 3'-0"x7'-0"		F1	-	-	-	x	-	x		104F	А	WD	3'-0"x7'-0"	3/4" U/C	-	F1	5 7/8"	DHG1	DJG1	Т3	-	15	
100AA A WD 3'-0"x7'-0"		F1	-	-	-	х		X		104G	A	WD	3'-0"x7'-0"	3/4" U/C	-	F1	5 7/8"	DHG1	DJG1	Т3	-	15	
100AB A WD 3'-0"x7'-0"		F1			-	x	-	x		104H	A	WD	3'-0"x7'-0"	3/4" U/C	-	F1	5 7/8"	DHG1	DJG1	-	-	15	
100AA A WD 3'-0"x7'-0"		F1	-	-	-	x	-	X		1041	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1 DHG1	DJG1 DJG1	T3	-	16	
100AB A WD <u>3'-0"×7' 0</u>		F1	-	-	-	x	-	x		104J 104K	A	WD	3'-0"x7'-0" 4'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	T3		13 17	
10044 A WD 3'-0"x7'-0" 100-1 H ALUM 6'-0"x7'-0"	SEE NOTE	F1	- 4 1/2"	-	-	×	-	3	SEE ALUM STORFRT DTLS; LAMINATED SECURITY	104K	B	WD WD	4-0 x7-0 3'-0"x7'-0"	-	- GL-1	F4 F1	5 7/8"	DHG1	DJG1		-	13	
100-2 H ALUM 6'-0"x7'-0"	- SEE NOTE		4 1/2"	_	_	-	-	3	GLAZING SEE ALUM STORFRT DTLS; LAMINATED SECURITY GLAZING	104M	c	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13	
100B A WD 3'-0"x7'-0"		F1	5 7/8"	DHG1	DJG1	-	-	6	GLAZING	104N	С	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13	
100C G ALUM 3'-0"x7'-0"	- SEE NOTE	= -	4 1/2"	-	-	-	-	4	SEE ALUM STORFRT DTLS; LAMINATED SECURITY GLAZING	104O	с	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13	
100CA C WD 3'-0"x7'-0"	- GL-2	F1	5 7/8"	DHG1	DJG1	тз	-	5		104P	с	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13	
100CB G ALUM 3'-0"x7'-0"	- GL-1	к	4 1/2"	-	-	-	-	4	SEE ALUM STORFRT DTLS	105	с	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12	
100D NOT USED										105A	C	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1 DJG1	-	-	13	
100E A WD 3'-0"x7'-0"		F1	6 3/8"	DHG1	DJG1	T4	-	6		105B	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8" 5 7/8"	DHG1 DHG1	DJG1 DJG1	-	-	8	
100F NOT USED 100G A ₩D 3'-0"x7'-0"		F1	8 5/8" (VERIFY)	DHC1	DJC1	T4		x		105C	A	WD WD	3'-0"x7'-0" 3'-0"x7'-0"	-	-	F1 F1	8 5/8"	DHC1	DJC1	-	-	5	
100H C HM 3'-0"x7'-0"	GL-1	F1	(VERIFY) 8 5/8" (VERIFY)	DHC1	DJC1	-	- 45 MIN	20	EXISTING OPENING	105F	NOT U			-	-						-		
100I C WD 3'-0"x7'-0"		F1	5 7/8"	DHG1	DJG1	T4	-	x		105G	A	WD	3'-0"x7'-0"	-	-	F1	8 5/8"	DHC1	DJC1	-	-	5	
100J NOT USED										106-1	с	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12	
100K A WD 3'-0"x7'-0"		F1	5 7/8"	DHG1	DJG1	-	-	8		106-2	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12	
100L NOT USED										106A	с	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	13	
100M A WD 3'-0"x7'-0"		F1	5 7/8"	DHG1	DJG1	-	-	6		106B	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16	
100N A WD 3'-0"x7'-0"		F1	6 3/8" 12 5/8"	DHG1	DJG1	T4	-	6	EXISTING OPENING	106C	NOT U						0.0/0"					12	
100O         D         WD         6'-0"x7'-0"           100P         C         3'-0"x7'-0"	- GL-1	F4	(VERIFY) 8 5/8"	DHC1 DHC1	DJC1 DJC1	-	90 MIN	<b>x</b> 20	EXISTING OPENING EXISTING OPENING	107 107A	C C	WD WD	3'-0"x7'-0" 3'-0"x7'-0"	-	GL-1 GL-1	F1	6 3/8" 5 7/8"	DHG1 DHG1	DJG1 DJG1	-	-	12	
100P C 3'-0"X7'-0" 100Q A WD 3'-0"x7'-0"	- GL-1	F1 F1	(VERIFY) 12 5/8" (VERIFY)	DHC1 DHC1	DJC1	-	45 MIN 90 MIN	20		107A	A	WD	3'-0"x7'-0"	-	-	F1 F1	5 7/8"	DHG1	DJG1	-	-	16	
100R A WD 3'-0"x7'-0"		F1	(VERIFT) 12 5/8" (VERIFY)	DHC1	DJC1	T2	90 MIN	22	10" X 10" 90 MIN FIRE RATED LOUVER	107C	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16	
100S A WD 3'-0"x7'-0"		F1	12 5/8" (VERIFY)	DHC1	DJC1	T2	90 MIN	22	10" X 10" 90 MIN FIRE RATED LOUVER	107D	с	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	16	

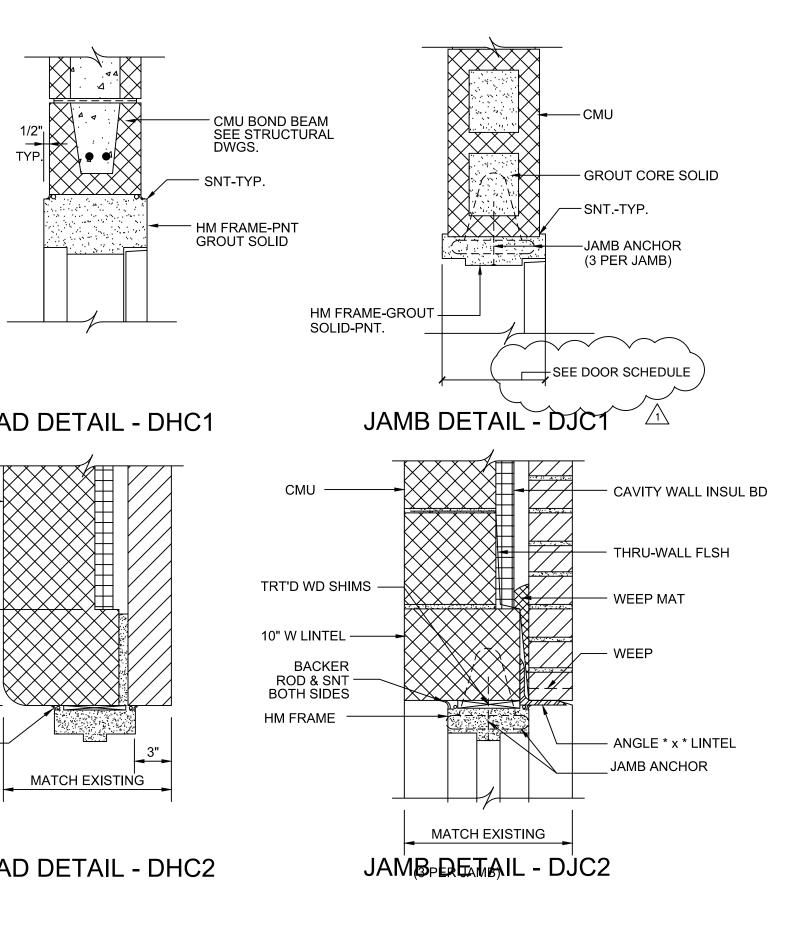
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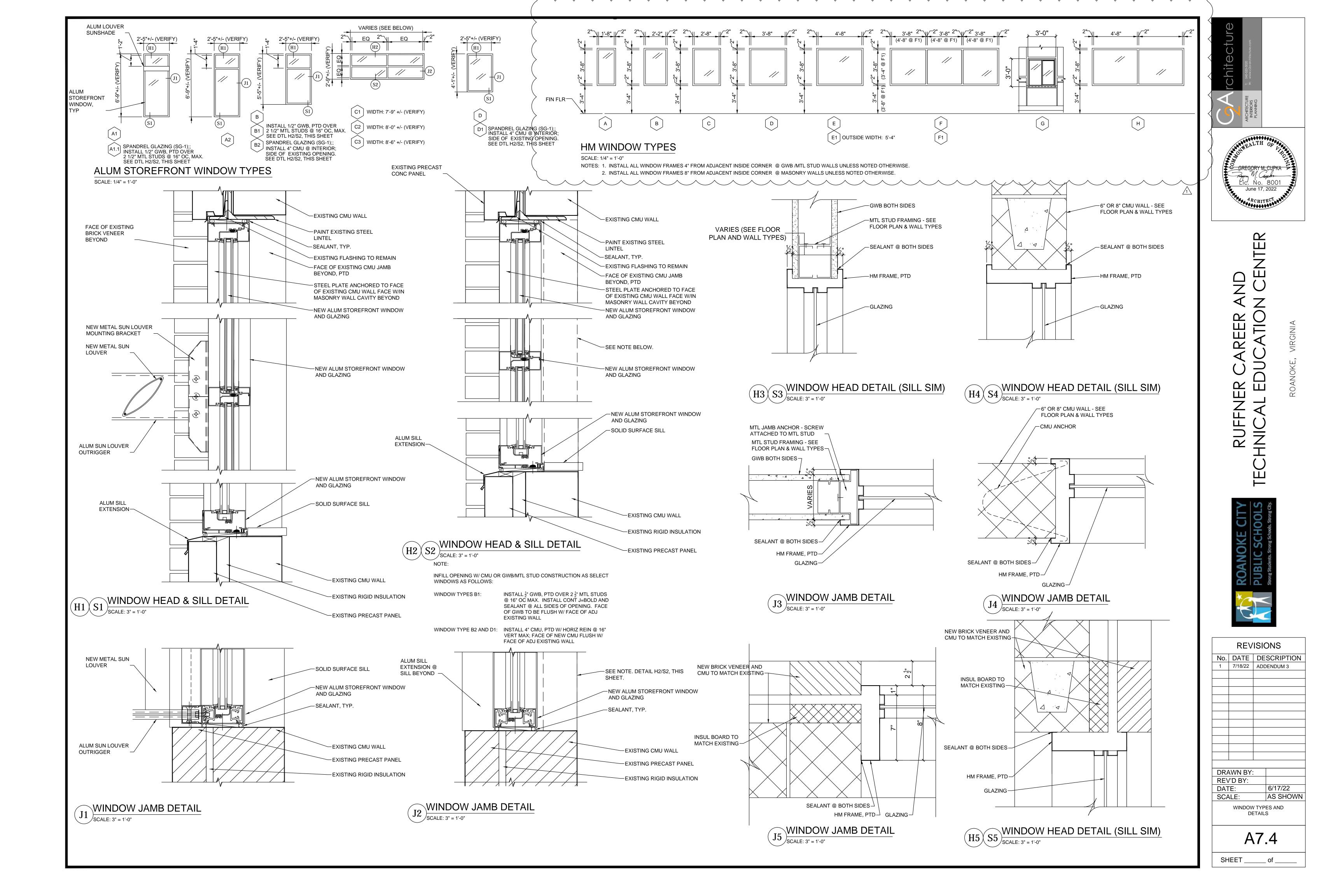
		OOR	SCH	IED	ULE	Ξ (Ο		NT.)							00	DR	SC	HEDI	JLE	Ξ (Ο		JT.)				
	DOOR NO	TYPE MATL	SIZE W X H	LOUVER OR UC	GLASS TYPE	FRAME TYPE	DEPTH	HEAD	JAMB	THRESH	FIRE RATING	HARD- WARE	NOTES	DOOR NO	TYPE	MATL	SIZE W X H	LOUVER QR UC	GLASS - TYPE	FRAME TYPE	DEPTH	HEAD	JAMB	THRESH	FIRE RATING	HARD- WARE
	108	C WD	3'-0"x7'-0"	-	GL-1	F2	6 5/8"	DHC1	DJC1	-	-	12		201A	с	WD	3'-0"x7'-0"		GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13
	108A	e wo	3'-0"x7'-9"		OK-T	F2	6.5/8"	DHCT	DJ&T			13		201B	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16
	- <u>108B</u>	B HM	6'-0"x7'-0"	-	-	F5	8 5/8"	DHC1	DJC1	-	-	24		202-1	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12
	108C			3/4".UC^		F2		DHC1	BJCI	<u> </u>		5 24		202-2	C	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12
	108D 108F	A WD	6'-0"x7'-0" 3'-0"x7'-0"	- 3/4" UC	-	F5 F2	8 5/8" 8 5/8"	DHC1	DJC1	-	-	8		202A 202B	A	WD WD	3'-0"x7'-0" 3'-0"x7'-0"	-	GL-1	F1 F1	5 7/8" 5 7/8"	DHG1 DHG1	DJG1	-	-	13
	108G	A WD	3'-0"x7'-0"	3/4" UC	-	F2	8 5/8"	DHC1	DJC1	-	-	8		203-1	C C	WD	3'-0"x7'-0"		GL-1	F1	6 3/8"	DHG1	DJG1 DJG1	-	-	12
	108H	C WD	3'-0"x7'-0"	-	GL-1	F2	8 5/8"	DHC1	DJC1	-	-	21		203-2	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12
	1081	A WD	3'-0"x7'-0"	-	-	F2	6 5/8"	DHC1	DJC1	-	-	16		203A	A	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13
	108J	A HM	3'-0"x7'-0"	-	-	F2	6 5/8"	DHC1	DJC1	-	-	16		203B	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16
	109	C WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12		204-1	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	31
	109A 109B	C WD	3'-0"x7'-0" 3'-0"x7'-0"	- 3/4" UC	GL-1	F1 F1	5 7/8" 5 7/8"	DHG1 DHG1	DJG1 DJG1	-	-	13 8		204-2 204A	C	WD WD	3'-0"x7'-0" 3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	31 13
	109C	A WD	3'-0"x7'-0"	3/4" UC	-	F1	5 7/8"	DHG1	DJG1	-	- -	8		204A	C A	WD	3'-0"x7'-0"		- GL-1	F1 F1	5 7/8" 5 7/8"	DHG1 DHG1	DJG1 DJG1		- -	30
	109D	A WD	3'-0"x7'-0"	-	-	F2	6 5/8"	DHC1	DJC1	-	_	5		204C	A	WD	3'-0"x7'-0"	_	-	F1	5 7/8"	DHG1	DJG1	-	-	16
	109E	A HM	3'-0"x7'-0"	-	-	F2	6 5/8"	DHC1	DJC1	-	45 MIN	6	/	204D	C	WD	3'-0"x7'-0"		BL-1	F1	57/8"	DHG1	DJG1			30
	109F	A WD	3'-0"x7'-0"	-	GL-1	F2	6 5/8"	DHC1	DJC1	-	-	21		204E	с	WD	3'-0"x7'-0"		GL-1	F1	5 7/8"	DHG1	DJG1	-	-	30
	110	C WD	3'-0"x7'-0"	-	GL-1	F5	6 5/8"	DHC1	DJC1	-	-	12		204F	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	30
	110A	C WD	3'-0"x7'-0"	-	GL-1	F2	8 5/8"	DHC1	DJC1	-	-	13 8		205-1		WD	3'-0"x7'-0"				6 3/8"		0)61			
	110B 110C	A WD	3'-0"x7'-0"	3/4" UC 3/4" UC	-	F2 F2	6 5/8" 6 5/8"	DHC1 DHC1	DJC1	-	-	8		205-2	C	WD WD	3'-0"x7'-0" 3'-0"x7'-0"	-	GL-1	F1	6 3/8" 5 7/8"	DHG1	DJG1		-	
	110D	A WD	3'-0"x7'-0"	3/4" UC		F2	6 5/8"	DHC1	DJC1			16		- <u>205B</u>	•	• •	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1			
	110E	A WD	3'-0"x7'-0"	-	-	F2	6 5/8"	DHC1	DJC1	-	-	16		206-1	1/e	WB	3'-0"x7'-0"		GL-1	F1	6-3/8		DJGT		<u> </u>	12
	110F	A WD	3'-0"x7'-0"	-	-	F2	6 5/8"	DHC1	DJC1	-	-	12		206-2	С	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	12
	110H	С НМ	3'-0"x7'-0"	-	GL-1	F2	8 5/8"	DHC1	DJC1	-	-	21		206A	С	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13
	110H	C HM	3'-0"x7'-0"	-	GL-1	F2	8 5/8"	DHC1	DJC1	-	-	6		206B	NO			0////								
	200A	A WD	3'-0"x7'-0"			F1	6 3/8"	DHG1	DJG1			6		206C 206D	A A	WD WD	3'-0"x7'-0"	3/4" UC 3/4" UC	-	F1 F1	5 7/8"	DHG1	DJG1	-	-	8
	200R	C HM	3'-0"x7'-0"	-	- GL-1	F1	5 7/8"	DHG1	DJG1	Т3	-	13		206E	C C	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8" 6 3/8"	DHG1 DHG1	DJG1 DJG1	-	-	12
	200C	С НМ	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	6		206F	NO	USED										
	200D	С НМ	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13		206G	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16
	200E	С НМ	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	11		206H	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16
	200F	A WD	3'-0"x7'-0"	-	-	F1 F1	5 7/8" 5 7/8"	DHG1 DHG1	DJG1 DJG1	T4	-	6 8		2061						F1	0.0/0"	DUGA	DIGI			CASED
	200G 200H	A WD	3'-0"x7'-0" 3'-0"x7'-0"	3/4" UC 3/4" UC	-	F1	5 7/8"	DHG1	DJG1		-	8		207-1 207-2		WD WD	3'-0"x7'-0"	-	GL-1 GL-1	F1 F1	6 3/8" 6 3/8"	DHG1 DHG1	DJG1 DJG1	-	-	12
	2001	NOT USED												207A	A	WD	3'-0"x7'-0"		GL-1	F1	5 7/8"	DHG1	DJG1	-	-	16
	200J	NOT USED												207B	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	13
٨	200K	G ALUM	6'-0"x7'-0"	-	GL-1	D	4 1/2"	-	-	T4	-	29	SEE ALUM STORFRT DTLS	208A	с	WD	3'-0"x7'-0"		GL-1	F1	6 3/8"	DHG1	DJG1	-	-	33
<u>_1</u>	200L	C HM	3'-0"x7'-0"	-	GL-1	F1	8 5/8"	DHC1	DJC1	T4	45 MIN	20	EXISTING OPENING	208B	С	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	33
	200M	NOTUSED												209-1 209-2	C	WD	3'-0"x7'-0"	-	GL-1	F1 F1	6 3/8"	DHG1 DHG1	DJG1	-	-	12
	200N 200O	NOT USED												209-2 209A	C C	WD WD	3'-0"x7'-0" 3'-0"x7'-0"	-	GL-1 GL-1	F1	5 7/8" 5 7/8"	DHG1	DJG1 DJG1	-	-	13
	200P	NOTUSED												209B	c c	WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	12
	200Q	NOT USED												209C	A	WD	3'-0"x7'-0"	3/4" UC	-	F1	5 7/8"	DHG1	DJG1	-	-	8
	200S	NOT USED												209D	A	WD	3'-0"x7'-0"	3/4" UC	-	F1	5 7/8"	DHG1	DJG1	-	-	8
^	200T	NOTUSED												209E						F1						CASED
	200U	C HM	3'-0"x7'-0"	-	GL-1	F1	8 5/8"	DHC1	DJC1	T4	45 MIN	20	EXISTING OPENING	209F	NO	USED										10
	200V 200W				GL-1	F4	6 3/8"	DHG1	DJG1	-		32		209G 209H	Α Δ	WD WD	3'-0"x7'-0" 3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16 16
	200W		6'-0"x7'-0" 3'-0"x7'-0"	-	GL-1	F1	8 5/8"	DHC1	DJC1	T4	- 45 MIN	20	EXISTING OPENING	2091					-	F1 F1	5 7/8"	DHG1	DJG1		-	CASED
	200Y	C WD	3'-0"x7'-0"	-	GL-1	F1	6 3/8"	DHG1	DJG1	-	-	20		210-1	с	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	33
	200Z	в нм	6'-0"x7'-0"	-	-	F4	5 7/8"	DHG1	DJG1	T4	-	34		210-2	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	16
	200AA	A WD	3'-0"x7'-0"	-	-	F1	6 5/8"	DHC1	DJC1	T4	-	26	EXISTING OPENING	210A	A	WD	3'-0"x7'-0"	-	GL-1	F1	5 7/8"	DHG1	DJG1	-	-	13
$\Delta$	200AB	C HM	3'-0"x7'-0"	-	GL-1	F1	8 5/8"	DHC1	DJC1	T4	45 MIN	20	EXISTING OPENING	210B	A	WD	3'-0"x7'-0"	-	-	F1	5 7/8"	DHG1	DJG1	-	-	8
	201-1	C WD	3'-0"x7'-0"	-	GL-1	F1 F1	6 3/8"	DHG1	DJG1	-	-	12 12		210C	A	WD	3'-0"x7'-0"		-	F1	5 7/8"	DHG1	DJG1	-	-	8
	201-2	C WD	3'-0"x7'-0"	-	GL-1		6 3/8"	DHG1	DJG1		-															
																										'

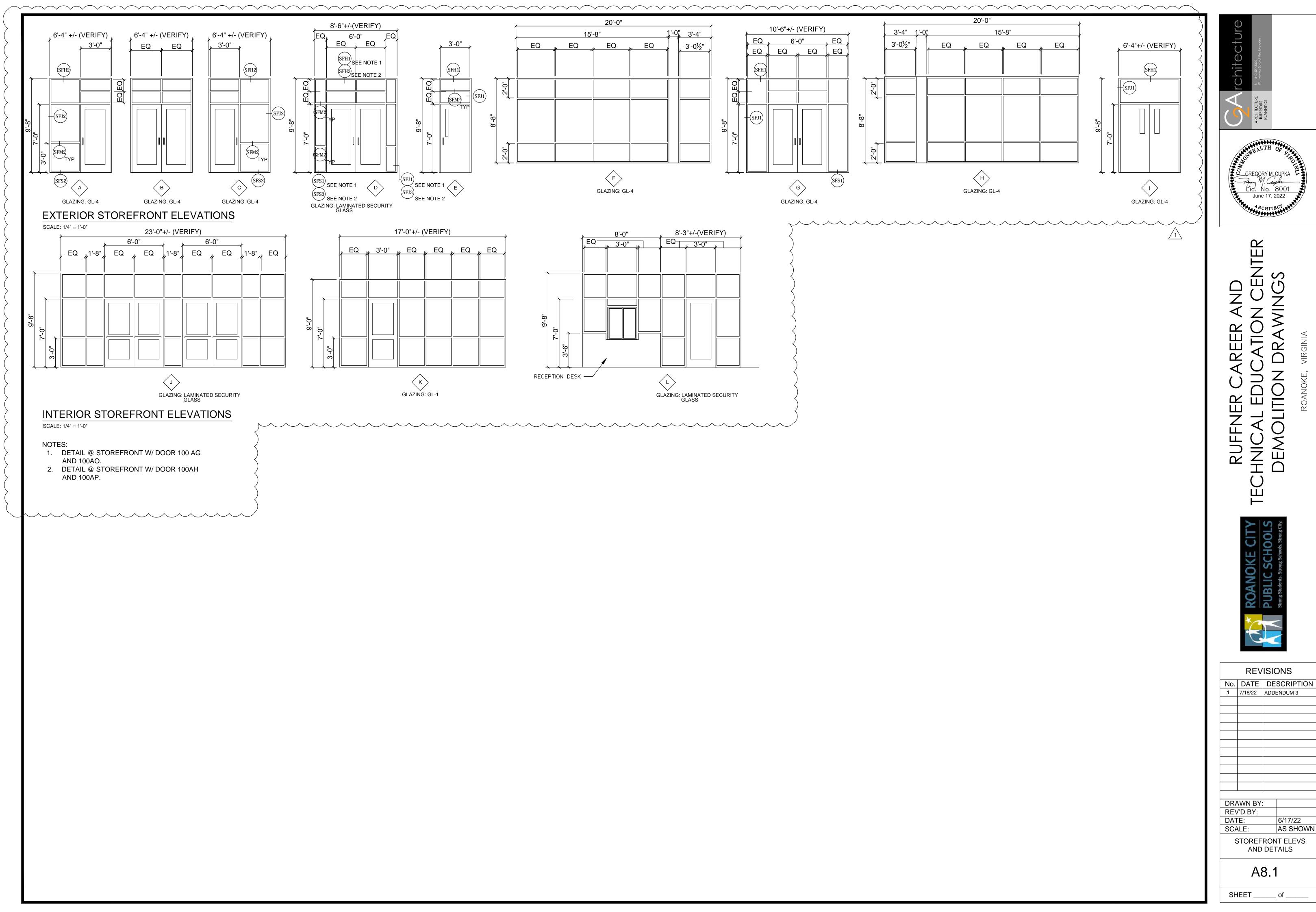




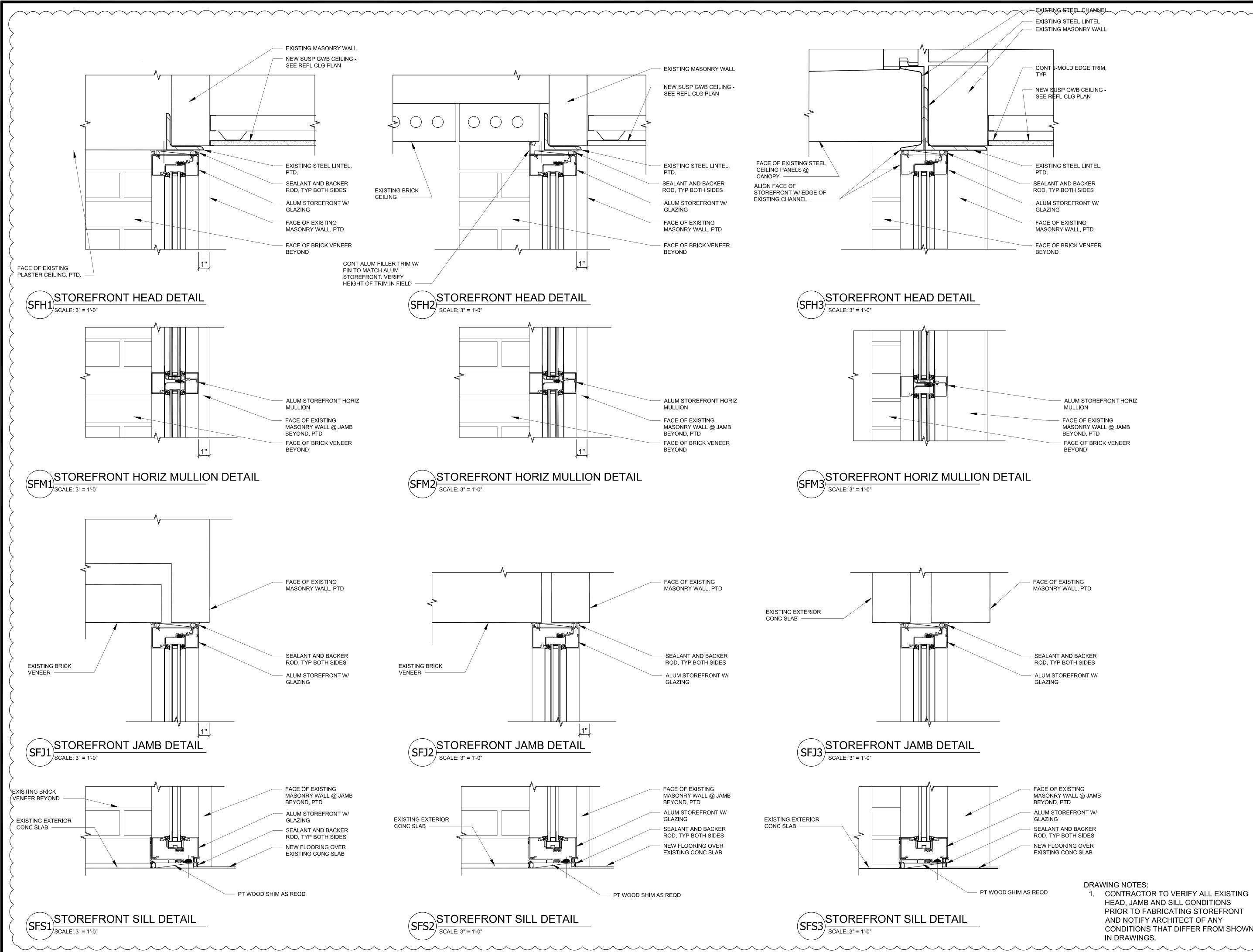






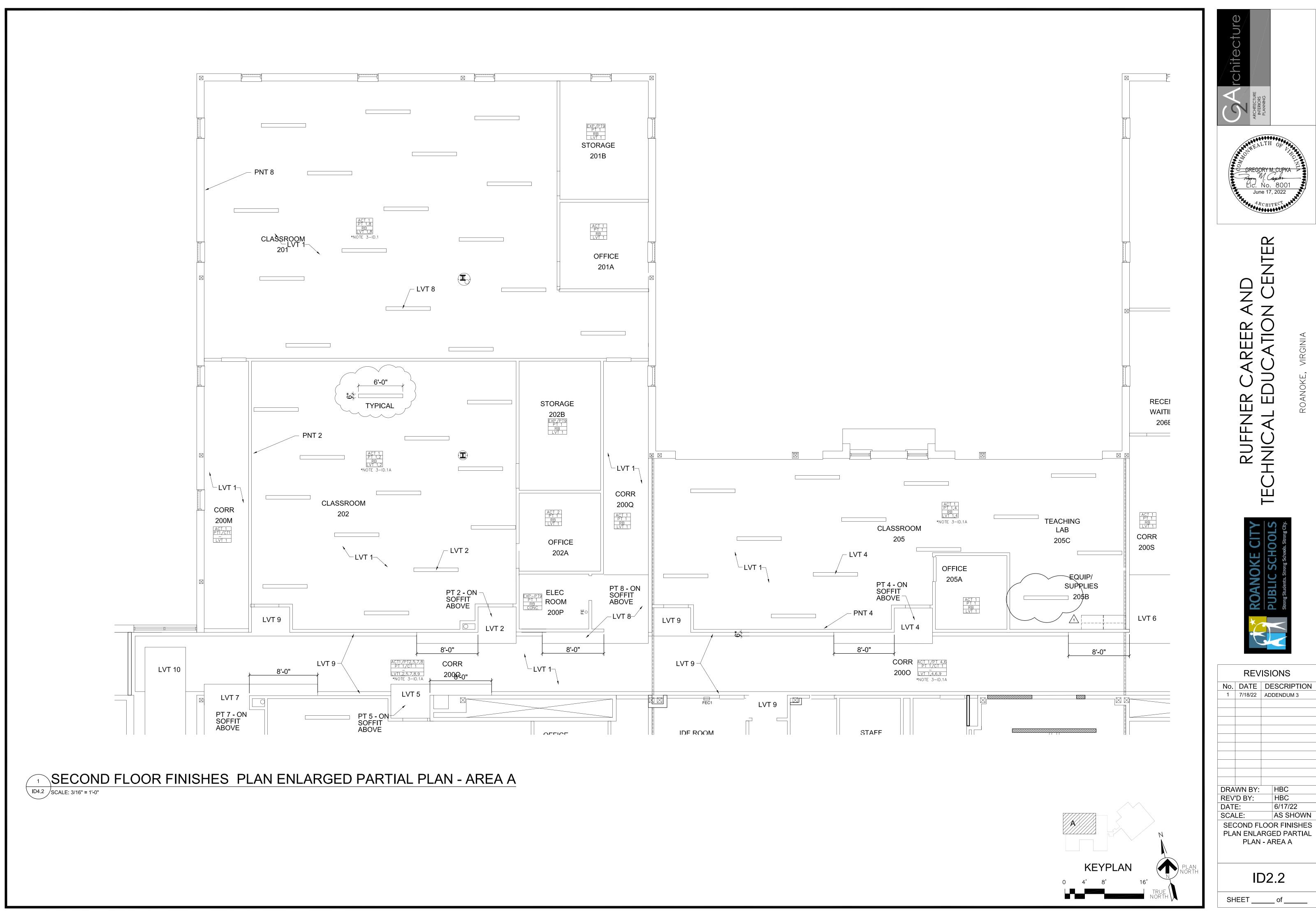


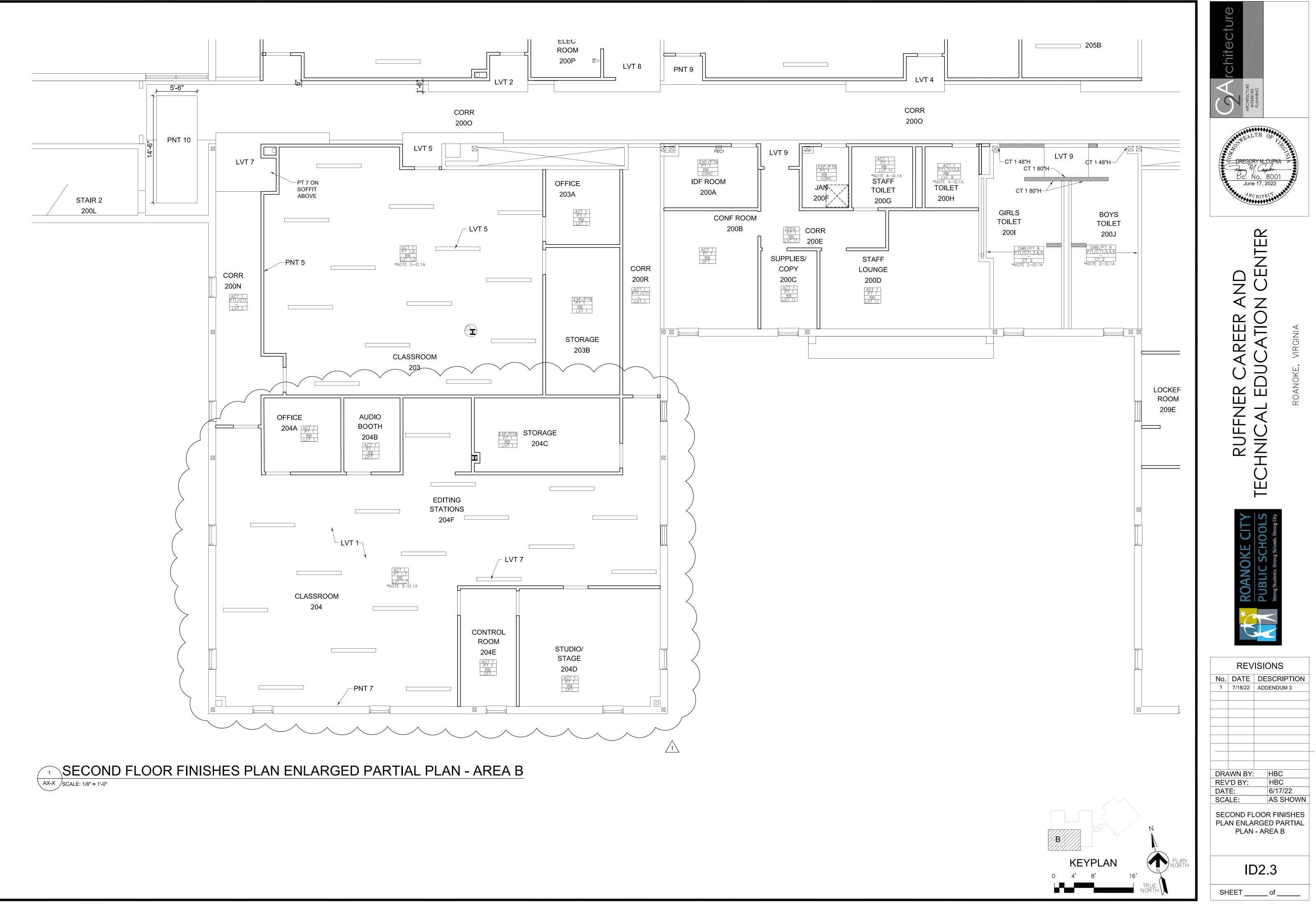
	REVISIONS									
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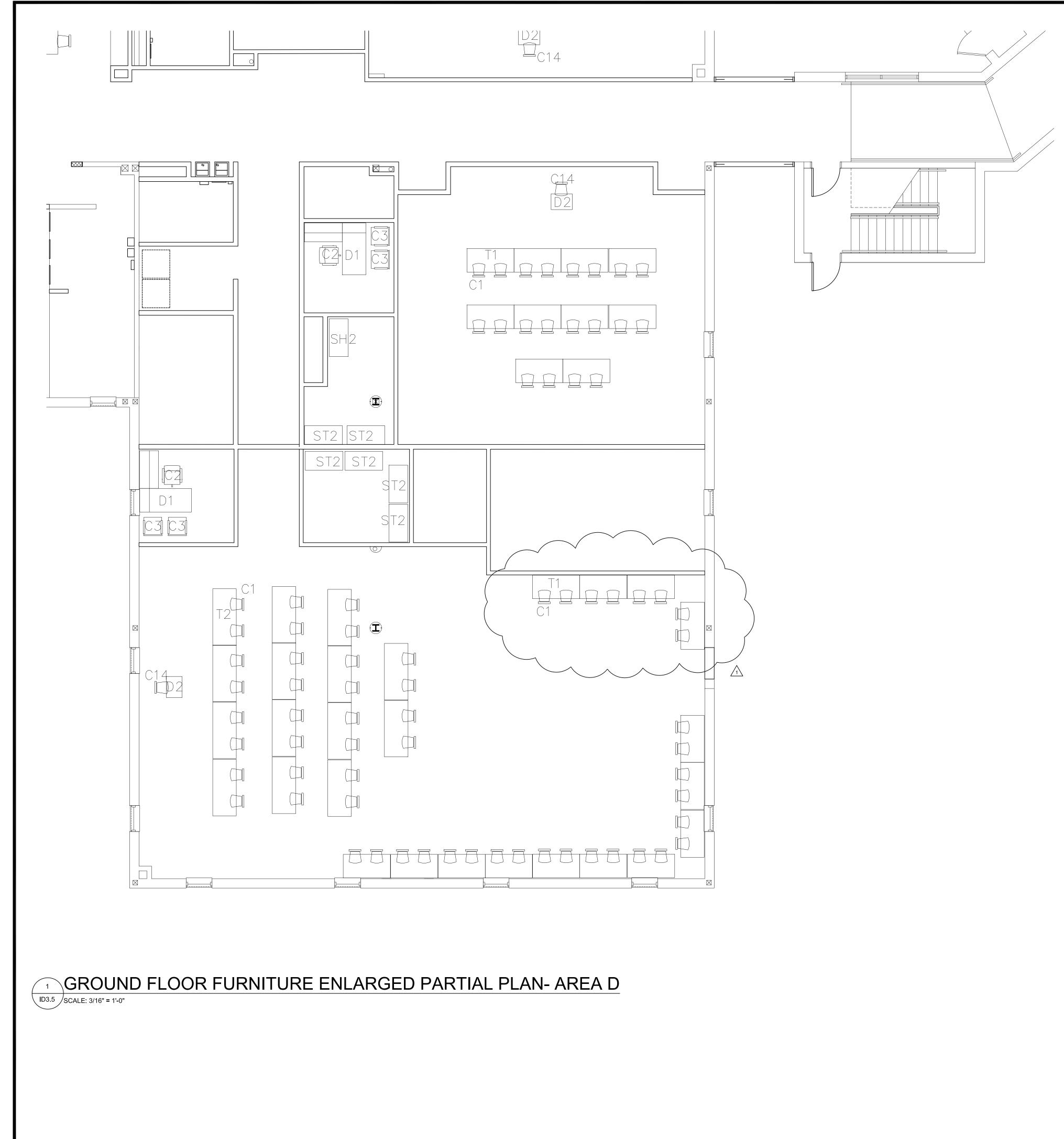


CONDITIONS THAT DIFFER FROM SHOWN

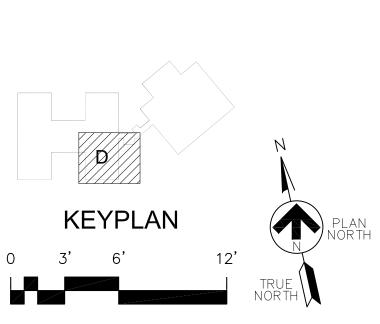


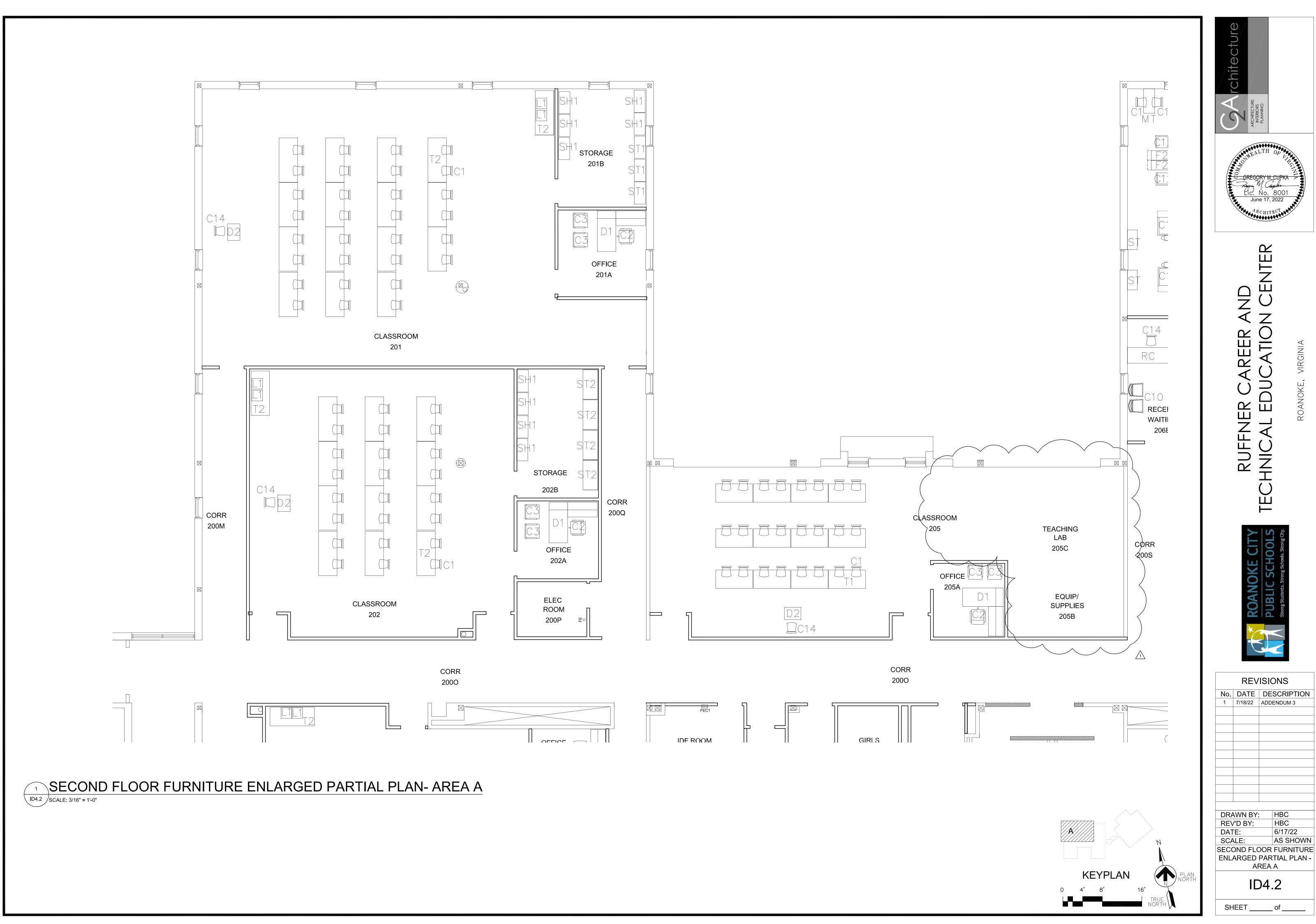


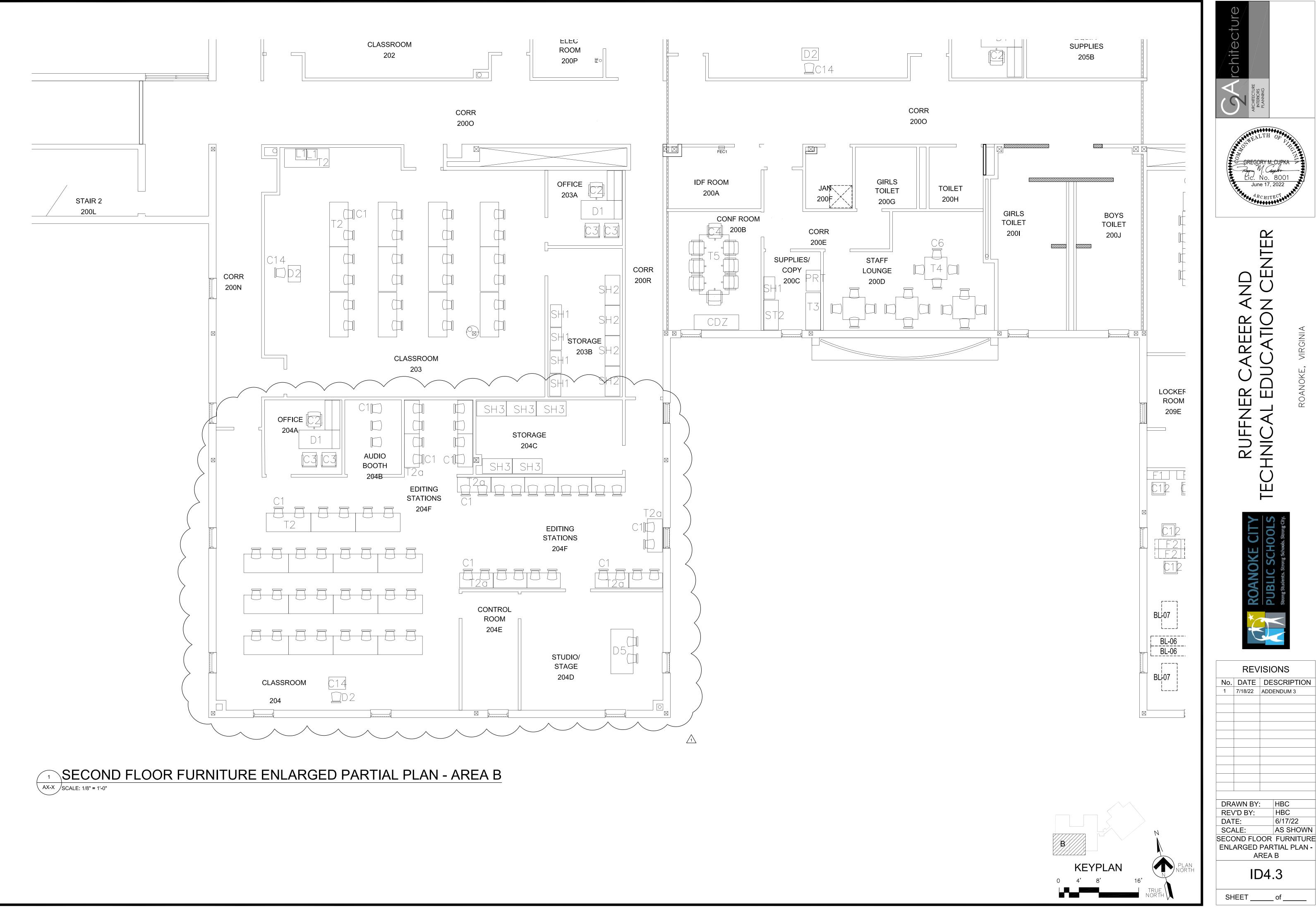












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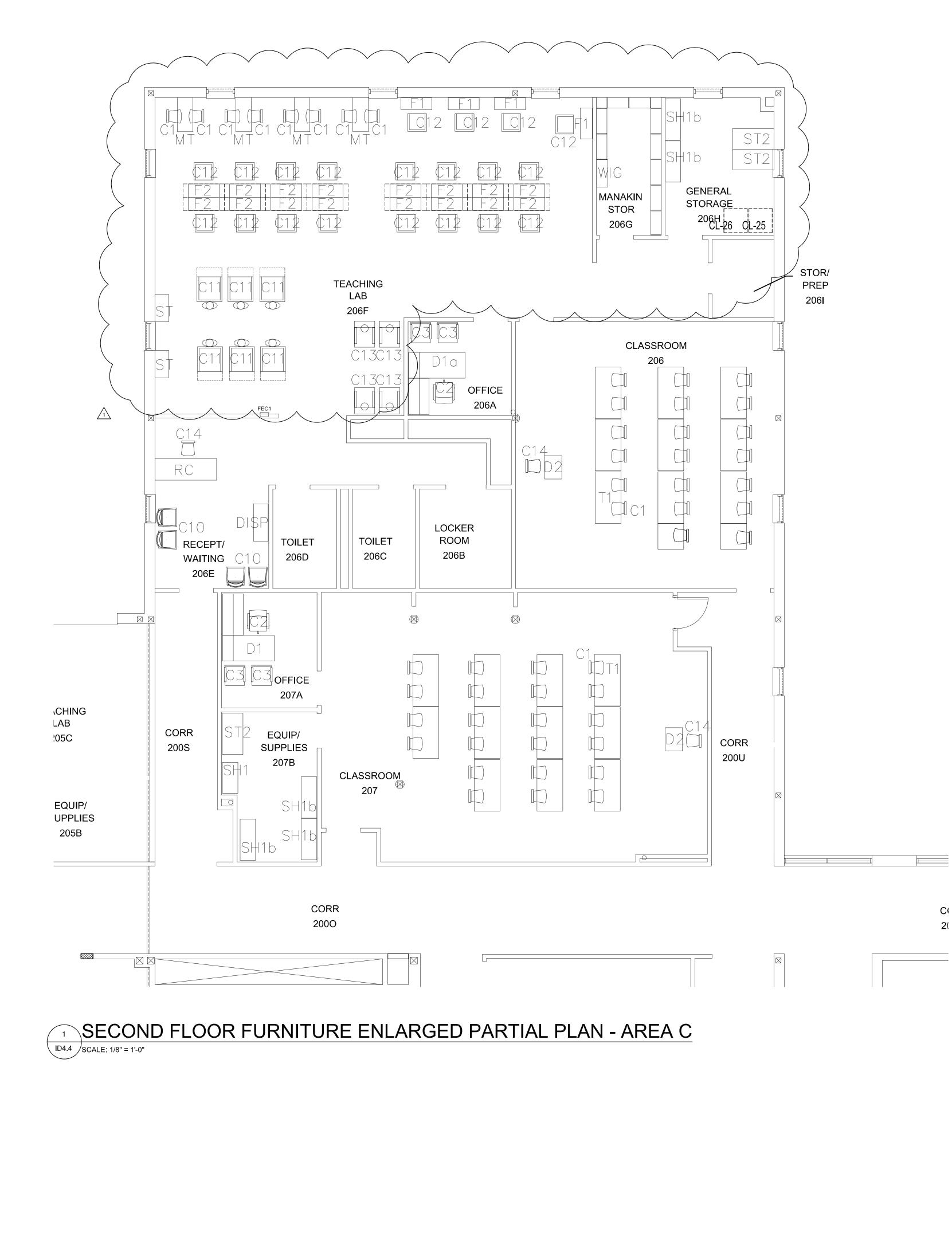
OKE.

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6/17/22

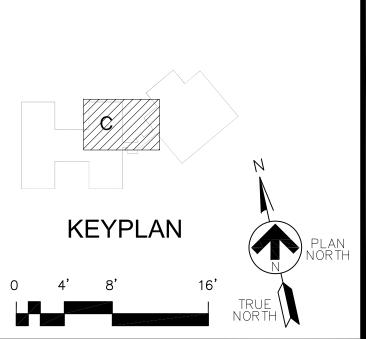
AS SHOWN

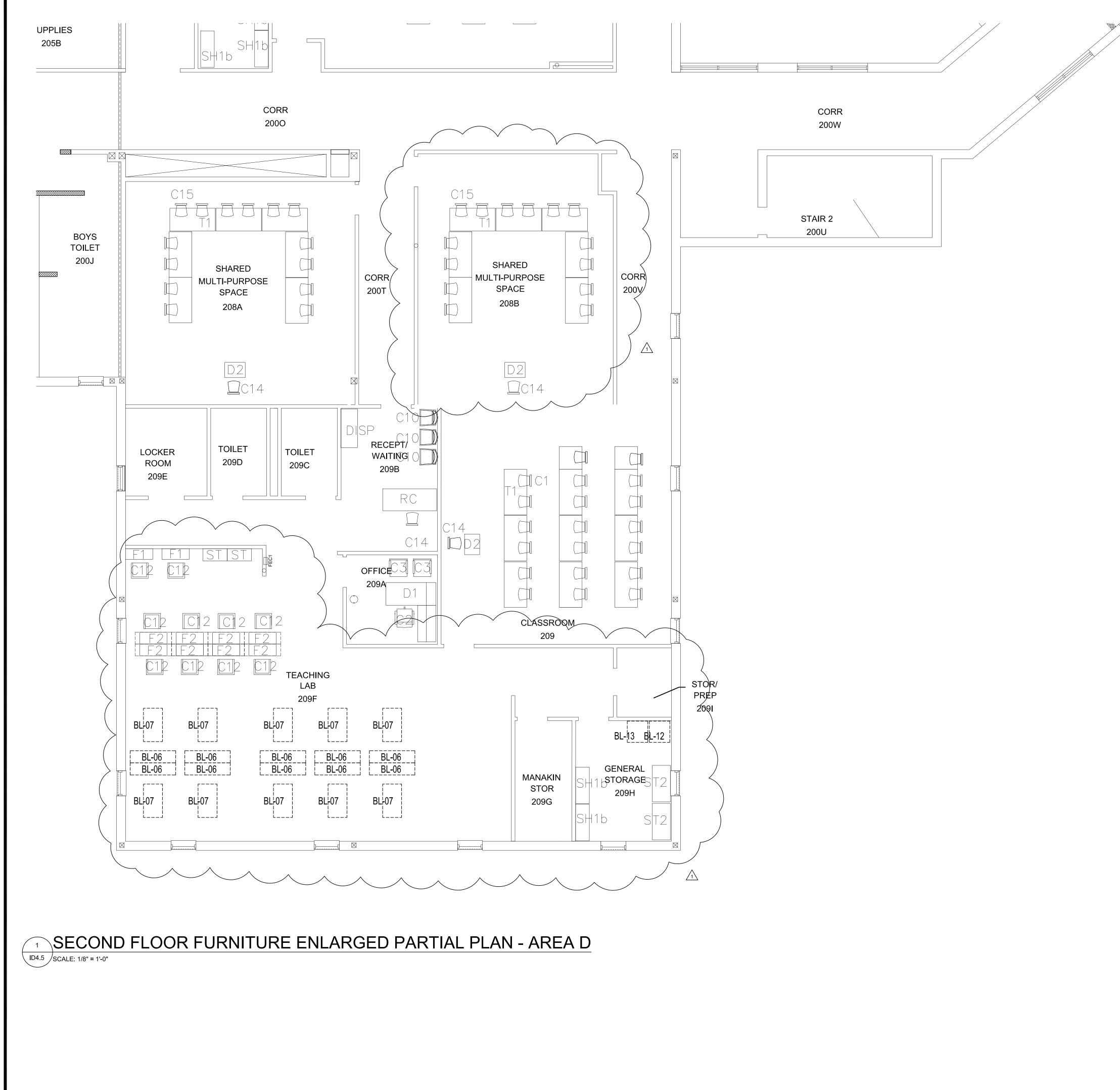


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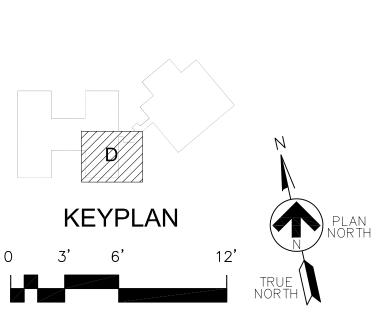
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			SCHEE		-		1										JCTLE			
Image: Product State         Image: Pr	U	JNIT	CFM	S.P.		RPM		1				CONTROL		NOTES						
ar-2         228         0.05         110         11		· <b>F</b> _1	300	0.25										1		ουτ	TDOOR COND 36,000 BTU	ENSING UNIT J/HR COOLIN	<sup>-</sup> — MITSUE IG, 920 CF	BISHI FM, 18
									1					1		В. С. D.	DC INVERTE	R COMPRESS	SOR.	-
									1					2		E. F.	PROVIDE LO PROVIDE CO	OW AMBIENT ONDENSATE F	CONTROL 1 PUMP AS F	to o Requir
Construct         Construct <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>G. H.</td><td></td><td></td><td></td><td></td></t<>									1					1		G. H.				
Construct         Construct <t< td=""><td>~~~</td><td>~~~~~</td><td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td>^</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ουτ</td><td>TDOOR COND</td><td>ENSING UNIT</td><td>- MITSUE</td><td>BISHI</td></t<>	~~~	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	^												ουτ	TDOOR COND	ENSING UNIT	- MITSUE	BISHI
IF-7         1125         0.25         1130         1/4         If         0 <th0< th="">         0</th0<>	$\sim$	<u></u>		0.25		1250	33	120	1	SP-/	A190 RU	N DURING (	OCCUPANCY	1		В.	208 VOLTS,	SINGLE PH	ASE, 15A N	<sup>-</sup> M, 15 MOCP,
									1					3			WALL MOUN	ITED, HARD	WIRED CON	
CT-4         Count of the second of the									1					1		F. G.	PROVIDE CO AUTO RESTA	ONDENSATE F ART ON POW	PUMP AS F ER FAILUR	requif E.
	~~~~	•••••	•••••	•••••	~~~		1/4 HP	120	1	· · · · · · · · · · · · · · · · · · ·	~~~~	•••••	•••••	3						
	<del>}</del>								1							ουτ	TDOOR COND	ENSING UNIT	- MITSUE	BISHI
	<del>}</del>			0.20												В.	208 VOLTS, DC INVERTE	SINGLE PHA	ASE, 15A N SOR.	MOCP,
	$\leftarrow$			4.0			2 HP	460	3			WALL SV	WITCH	4	$\Lambda$	D. E. F	PROVIDE LO	W AMBIENT	CONTROL 1	το ο
		~~~~~	~~~~~	~~~~~						$+\cdots$				how		G.	AUTO RESTA	ART ON POW	ER FAILUR	E.
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	REQUI	IREMENTS.	EQUALS SHAL	L BE ACC		DSCHEDU	LE NOTES:		<u> </u>					5						
			WALL F						REMEN	-			SCHE	DULE			1			1
NH-1         UNDEL         NOTE         NOTE <t< td=""><td>MARK</td><td></td><td></td><td></td><td>MBH</td><td>CFM</td><td>KW VO</td><td>lt/Ph</td><td></td><td>MARK</td><td>MANUFAC</td><td>TURER &amp;</td><td></td><td></td><td>VOLTS</td><td></td><td>HEATI</td><td>ING CAP</td><td></td><td></td></t<>	MARK				MBH	CFM	KW VO	lt/Ph		MARK	MANUFAC	TURER &			VOLTS		HEATI	ING CAP		
		M/	NRKEL E3323TTD-I	RP	5.1	400	1.5 1	20/1			MODI	il no.		HP	ø	EXT.			· ·	
	PROVIDE						<i>م</i>								· ·				-	1840 840
CRULLES, RECISTERS AND DIFFUSERS SCHEDULE         ARK       MAUFACTURER & MODEL NO.       DESCRIPTION       MATERIAL FINISH       ACCESSORIES & FEATURES         DP1       METALAIRE 5700-6       24*/24* CELING DEFUSER WITH 6'# NECK FOR LAT-IN CELING       STEL       WHITE       MODEL BOS DAMPER         0-2       METALAIRE 5700-6       24*/24* CELING DEFUSER WITH 6'# NECK FOR LAT-IN CELING       STEL       WHITE       MODEL BOS DAMPER         0-3       METALAIRE 5700-6       24*/24* CELING DEFUSER WITH 6'# NECK FOR LAT-IN CELING       STEL       WHITE       MODEL BOS DAMPER         0-3       METALAIRE 5700-6       24*/24* CELING DEFUSER WITH 0'# NECK FOR LAT-IN CELING       STEL       WHITE       MODEL BOS DAMPER         0-4       METALAIRE 5700-6       24*/24* CELING DEFUSER       STEL       WHITE       MODEL BOS DAMPER         0-4       METALAIRE 5700-6       24*/24* CELING GRIEL SUPLY REGISTER       STEL       WHITE       MODEL BOS DAMPER       STEL       WHITE       MODEL BOS DAM	VENTS, B DUCT DU MODEL N EQUALS WEI	bin base with ict system a iumbers are shall be ac LDING	I QUICK RÉLEASE S INDICATED. USED TO ESTABLI CEPTED DUST C RE TG12, 7840 CF	LEVEL AND N SH PERFORM OLLEC M, 20 HP, 44	NON RE ANCE I TO 60/3¢,	etürn valve requirement R R	e, easy ts. 													
MARK     MANUFACTURER & MODEL NO.     DESCRIPTION     MATERIAL     FINISH     ACCESSORIES & FEATURES       UPPLY DIFFUSERS     3     METALARE 5700-6     24*X24* CELING DIFFUSER WITH 6*9 NECK FOR LAY-IN CELING     STEEL     WHTE     MODEL BOS DAMPER       20-2     METALARE 5700-6     24*X24* CELING DIFFUSER WITH 6*9 NECK FOR LAY-IN CELING     STEEL     WHTE     MODEL BOS DAMPER       20-3     METALARE 5700-6     24*X24* CELING DIFFUSER FOR SURFACE WONTING     STEEL     WHTE     MODEL DOS DAMPER       20-4     METALARE 5000-1     9*39* DRECTOWL DIFFUSER FOR SURFACE WONTING     STEEL     WHTE     MODEL DO DAMPER       20-4     METALARE 5000-1     9*39* DRECTOWL DIFFUSER FOR SURFACE WONTING     STEEL     WHTE     MODEL DO DAMPER       20-4     METALARE 6075-12-1     UNEAR SLOT DIFFUSER, 3'-0" LONG, 1 SLOT 9 3/4* WIDE EACH, 10*9     ALUMINUM     WHITE     INSULATED BOOT PLENUM       20-2     METALARE 6075-12-1     UNEAR SLOT DIFFUSER, 6'-0" LONG, 2 SLOTS 9 3/4* WIDE EACH, 10*9     ALUMINUM     WHITE     INSULATED BOOT PLENUM       20-2     METALARE V4004-1     6*X4* SIDEWALL SUPPLY REGISTER     STEEL     WHITE     MODEL OBD DAMPER       RT-2     METALARE V4004-1     10*X6* SIDEWALL SUPPLY REGISTER     STEEL     WHITE     MODEL OBD DAMPER       Rt-4     METALARE V4004-1     10*X6* SIDEWALL SUPPLY REGISTER <t< td=""><td></td><td>SHALL BE AC</td><td>CEPTED</td><td></td><td></td><td></td><td></td><td> SCH</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		SHALL BE AC	CEPTED					 SCH												
DD-1       METALARE 5700-6       24*X24* CELING DIFFUSER WITH 6* NECK FOR LAY-IN CELING       STEEL       WHTE       MODEL BOS DAMPER         CD-2       METALARE 5700-6       24*X24* CELING DIFFUSER WITH 6* NECK FOR LAY-IN CELING       STEEL       WHTE       MODEL BOS DAMPER         CD-3       METALARE 5700-6       24*X24* CELING DIFFUSER WITH 10* NECK FOR LAY-IN CELING       STEEL       WHTE       MODEL BOS DAMPER         CD-4       METALARE 5000-1       9*X9* DIRECTIONAL DIFFUSER, FOR SURFACE MOUNTING       STEEL       WHTE       MODEL DS DAMPER         SD-1       METALARE 5000-1       9*X9* DIRECTIONAL DIFFUSER, 3'-0" LONG, 1 SLOT • 3/4* WIDE EACH, 6*8       ALUMINUM       WHTE       INSULATED BOOT PLENUM         SD-2       METALARE 6675-12-1       UNEAR SLOT DIFFUSER, 6'-0" LONG, 2 SLOTS • 3/4* WIDE EACH, 6*8       ALUMINUM       WHTE       INSULATED BOOT PLENUM         SD-2       METALARE 74004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       INSULATED BOOT PLENUM         RILES & REGISTERS       STEEL       WHTE       MODEL 06D DAMPER       STEEL       WHTE       MODEL 06D DAMPER         RF-2       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL 06D DAMPER         RF-3       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       <		-		1						JLL	MATERIA	. FINISH	ACCESSORI	es & featu	RES					
D-2       METALARE 5700-6       24*X24* CELING DIFUSER WITH 8*9 NECK FOR LAY-IN CELING       STEEL       WHTE       MODEL BOS DAMPER         D-3       METALARE 5700-6       24*X24* CELING DIFUSER WITH 10*9 NECK FOR LAY-IN CELING       STEEL       WHTE       MODEL BOS DAMPER         D-4       METALARE 5000-1       9*X9* DRECTIONAL DIFUSER FOR SURFACE MOUNTING       STEEL       WHTE       MODEL BOS DAMPER         SD-1       METALARE 6675-12-1       LINEAR SLOT DIFFUSER, 3'-0* LONG, 1 SLOT Ø 3/4* WDE EACH, 6*9       ALUMINUM       WHTE       INSULATED BOOT PLENUM         SD-2       METALARE 6675-12-1       LINEAR SLOT DIFFUSER, 6'-0* LONG, 2 SLOTS Ø 3/4* WDE EACH, 10*ø       ALUMINUM       WHTE       INSULATED BOOT PLENUM         R1LES & REGISTERS       INFEALARE V4004-1       6*X4* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R1-2       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R-3       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R-4       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R-5       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD		DIFFUSERS		I							I									
D-3       METALARE 5700-6       24*24* CELING DIFFUSER WITH 10* NECK FOR LAY-N CELING       STEEL       WHTE       MODEL BDS DAMPER         D-4       METALARE 6075-12-1       LINEAR SLOT DIFFUSER, 3'-0' LONG, 1 SLOT © 3/4" WIDE EACH, 6*9       ALUMINUM       WHTE       INSULATED BOOT PLENUM         SD-2       METALARE 6675-12-1       LINEAR SLOT DIFFUSER, 6'-0' LONG, 2 SLOTS © 3/4" WIDE EACH, 6*9       ALUMINUM       WHTE       INSULATED BOOT PLENUM         SD-2       METALARE 6675-12-1       LINEAR SLOT DIFFUSER, 6'-0' LONG, 2 SLOTS © 3/4" WIDE EACH, 6*9       ALUMINUM       WHTE       INSULATED BOOT PLENUM         STEEL       METALARE 4675-12-1       LINEAR SLOT DIFFUSER, 6'-0' LONG, 2 SLOTS © 3/4" WIDE EACH, 10*       ALUMINUM       WHTE       INSULATED BOOT PLENUM         R1LES & REGISTERS       T       T       6*X4* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R-2       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R-3       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R-4       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHTE       MODEL OBD DAMPER         R-5       METALARE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER																				
D-4       METALAIRE 5000-1       9*X9* DIRECTIONAL DIFFUSER FOR SURFACE MOUNTING       STEEL       WHTE       MODEL D5 DAMPER         5D-1       METALAIRE 6675-12-1       LINEAR SLOT DIFFUSER, 3'-0' LONG, 1 SLOT 0 3/4" WIDE EACH, 6*0       ALUMINUM       WHTE       INSULATED BOOT PLENUM         0-2       METALAIRE 6675-12-1       LINEAR SLOT DIFFUSER, 6'-0' LONG, 2 SLOTS 0 3/4" WIDE EACH, 10*0       ALUMINUM       WHTE       INSULATED BOOT PLENUM         0-2       METALAIRE 6675-12-1       LINEAR SLOT DIFFUSER, 6'-0' LONG, 2 SLOTS 0 3/4" WIDE EACH, 10*0       ALUMINUM       WHTE       INSULATED BOOT PLENUM         0-2       METALAIRE 6675-12-1       LINEAR SLOT DIFFUSER, 6'-0' LONG, 2 SLOTS 0 3/4" WIDE EACH, 10*0       ALUMINUM       WHTE       INSULATED BOOT PLENUM         RLLES & REGISTERS       STEEL       WHTE       MODEL OBD DAMPER       STEEL       WHTE       MODEL OBD DAMPER         R-2       METALAIRE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-4       METALAIRE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-5       METALAIRE V4004-1       10*X6* SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-6       METALAIRE V4004-1       112*X6* SIDEWALL SUPPLY REGISTER       S	:D—1																			
METALAIRE 000 12 1       DIALOT GEV ANOLULY OF CENTRY 1 dev of 0,1 met data, of 1       ALUMINUM       MITE       MODEL 000 12 1000         0-2       METALAIRE 6675-12-1       LINEAR SLOT DIFFUSER, 6'-0'' LONG, 2 SLOTS Ø 3/4'' WIDE EACH, 10'Ø ALUMINUM       WHTE       INSULATED BOOT PLENUM         RILLES & REGISTERS       ILINEAR SUCO 12 1000 (2 SLOTS Ø 3/4'' WIDE EACH, 10'Ø ALUMINUM       WHTE       INSULATED BOOT PLENUM         R-1       METALAIRE V4004-1       6''X4'' SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-2       METALAIRE V4004-1       6''X6'' SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-3       METALAIRE V4004-1       0''X6'' SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-4       METALAIRE V4004-1       10''X8'' SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-5       METALAIRE V4004-1       10''X8'' SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-6       METALAIRE V4004-1       12''X8'' SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-7       METALAIRE V4004-1       14''X8'' SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         R-8       METALAIRE V4004-1       <	D-1 D-2	М	etalaire 5000-1			9"X9" DIRE	ctional diffu	ser for s	SURFACE	E MOUNTING	STEEL	WHITE	MO	del d5 dam	PER					
RILES & REGISTERS       Minte       Model Obd AMPER         IR-1       METALAIRE V4004-1       6"X4" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-2       METALAIRE V4004-1       10"X6" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-3       METALAIRE V4004-1       6"X6" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-4       METALAIRE V4004-1       10"X6" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-5       METALAIRE V4004-1       10"X6" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-5       METALAIRE V4004-1       10"X6" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-5       METALAIRE V4004-1       12"X8" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-6       METALAIRE 7500R-6       24"X24" CEILING GRILLE WTH 6"Ø NECK FOR LAY-IN CEILING       STEEL       WHITE       MODEL OBD DAMPER         IR-7       METALAIRE 7500R-6       24"X24" CEILING GRILLE WTH 6"Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          IR-7       METALAIRE SRH-6       24"X24" FILTER CLG GRILLE WTH 12"X12" NECK FOR LAY-IN CEILING       STEEL	2D-1 2D-2 2D-3								•											
IR-2METALAIRE V4004-110"X6" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-3METALAIRE V4004-16"X6" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-4METALAIRE V4004-110"X8" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-5METALAIRE V4004-1112"X8" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-6METALAIRE V4004-1114"X8" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-6METALAIRE V4004-114"X8" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-6METALAIRE V4004-114"X8" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-6METALAIRE V4004-114"X8" SIDEWALL SUPPLY REGISTERSTEELWHITEMODEL OBD DAMPERIR-7METALAIRE 7500R-624"X24" CEILING GRILLE WITH 6"ø NECK FOR LAY-IN CEILINGSTEELWHITEIR-7METALAIRE 7500R-624"X24" CEILING GRILLE WITH 8"ø NECK FOR LAY-IN CEILINGSTEELWHITEIR-8METALAIRE 7500R-624"X24" CEILING GRILLE WITH 8"ø NECK FOR LAY-IN CEILINGSTEELWHITEIR-7METALAIRE 7500R-624"X24" CEILING GRILLE WITH 12"X12" NECK FOR LAY-IN CLISTEELWHITEIR-8METALAIRE SRHF-624"X24" FILTER CLG GRILLE WITH 12"X12" NECK FOR LAY-IN CLGSTEELWHITE1" MERV 13 FILTER	CD-1 CD-2 CD-3 CD-4 SD-1				LAR SL	_OT DIFFUSE	K, 6 - U LUN	G, 2 SLUI:	<b>9 9</b> 3/4	4 WIDE EACH	, IU 9 ALUMINUN	I   WHILE	INSUL	AIED BOOT	PLENUM					
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IR-4       METALAIRE V4004-1       10°X8" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-5       METALAIRE V4004-1       12°X8" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         IR-6       METALAIRE V4004-1       14°X8" SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         CR-1       METALAIRE 7500R-6       24°X24" CEILING GRILLE WITH 6°Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          CR-2       METALAIRE SRH-1       12°X8" CEILING EXHAUST REGISTER       STEEL       WHITE       OPPOSED BLADE DAMPER         CR-3       METALAIRE 7500R-6       24°X24" CEILING GRILLE WITH 8°Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          CG-1       METALAIRE SRHF-6       24°X24" FILTER CLG GRILLE WITH 12°X12" NECK FOR LAY-IN CLG       STEEL       WHITE       1" MERV 13 FILTER	CD-1 CD-2 CD-3 CD-4 SD-1 SD-2 RILLES RILLES	& REGISTERS Me											_							
TR-6       METALAIRE V4004-1       14*X8* SIDEWALL SUPPLY REGISTER       STEEL       WHITE       MODEL OBD DAMPER         CR-1       METALAIRE 7500R-6       24*X24* CEILING GRILLE WITH 6*Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          CR-2       METALAIRE SRH-1       12*X8* CEILING EXHAUST REGISTER       STEEL       WHITE       OPPOSED BLADE DAMPER         CR-3       METALAIRE 7500R-6       24*X24* CEILING GRILLE WITH 8*Ø NECK FOR LAY-IN CEILING       STEEL       WHITE       OPPOSED BLADE DAMPER         CG-1       METALAIRE SRHF-6       24*X24* FILTER CLG GRILLE WITH 12*X12* NECK FOR LAY-IN CLG       STEEL       WHITE       1* MERV 13 FILTER	CD-1 CD-2 CD-3 CD-4 SD-1 SD-2 RILLES RILLES RILLES RILLES	& registers Me Me	TALAIRE V4004-1						-	-			_							
CR-1       METALAIRE 7500R-6       24"x24" CEILING GRILLE WITH 6"Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          CR-2       METALAIRE SRH-1       12"x8" CEILING EXHAUST REGISTER       STEEL       WHITE       OPPOSED BLADE DAMPER         CR-3       METALAIRE 7500R-6       24"x24" CEILING GRILLE WITH 8"Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          CG-1       METALAIRE SRHF-6       24"x24" FILTER CLG GRILLE WITH 12"x12" NECK FOR LAY-IN CLG       STEEL       WHITE       1" MERV 13 FILTER	CD-1 CD-2 CD-3 CD-4 SD-1 SD-2 RILLES RI	& Registers Me Me	TALAIRE V4004-1 TALAIRE V4004-1				12"X8" SIDE	WALL SUPP	PLY RE	GISTER	STEE	il white	:	MODEL OBD	DAMPER					
CR-2       METALAIRE SRH-1       12"X8" CEILING EXHAUST REGISTER       STEEL       WHITE       OPPOSED BLADE DAMPER         CR-3       METALAIRE 7500R-6       24"X24" CEILING GRILLE WITH 8"Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          CG-1       METALAIRE SRHF-6       24"X24" FILTER CLG GRILLE WITH 12"X12" NECK FOR LAY-IN CLG       STEEL       WHITE       1" MERV 13 FILTER	CD-1       CD-2       CD-3       CD-4       SD-1       SD-2       RILLES       RR-1       IR-2       IR-3       IR-4       IR-5	& REGISTERS ME ME ME ME ME	TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1									. •	- 1	MODEL OBD	DAMPER					
CR-3       METALAIRE 7500R-6       24"X24" CEILING GRILLE WITH 8"Ø NECK FOR LAY-IN CEILING       STEEL       WHITE          CG-1       METALAIRE SRHF-6       24"X24" FILTER CLG GRILLE WITH 12"X12" NECK FOR LAY-IN CLG       STEEL       WHITE       1" MERV 13 FILTER	CD-1 CD-2 CD-3 CD-4 SD-1 SD-2 RILLES RI	& REGISTERS Me Me Me Me Me	TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1				14"X8" SIDE													
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	CD-1 CD-2 CD-3 CD-4 SD-1 SD-2 RILLES RI	& REGISTERS ME ME ME ME ME ME ME	TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE 7500R-6 ETALAIRE SRH-1			4"X24" CEILI	14"X8" SIDE ING GRILLE 12"X8" CEIL	WITH 6 <b>"ø</b> Ing exhau	NECK F Ist rec	for lay—in ( Gister	Ceiling Stee Stee	il White Il White	E OF			R				
CG-2 METALAIRE SRHF-6 24"X24" FILTER CLG GRILLE WITH 22"X22" NECK FOR LAY-IN CLG STEEL WHITE 1" MERV 13 FILTER NOTES:	CD-1 CD-2 CD-3 CD-4 SD-1 SD-2 RILLES RILLES R R-2 IR-3 IR-4 IR-5 IR-6 CR-1 CR-1 CR-2 CR-1 CR-2 CR-3 CG-1	& REGISTERS ME ME ME ME ME ME ME ME	TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE V4004-1 TALAIRE 7500R-6 IETALAIRE SRH-1 TALAIRE 7500R-6 TALAIRE SRHF-6		24 24*X	4"X24" CEILI 4"X24" CEILI 4"X24" FILTER	14"X8" SIDE ING GRILLE 12"X8" CEIL ING GRILLE CLG GRILLE	WITH 6 <sup>*</sup> ø Ing Exhau With 8 <sup>*</sup> ø With 12*	NECK F IST REC NECK F X12" N	for lay—in ( Gister for lay—in ( Ieck for lay	Ceiling Stee Stee Ceiling Stee (-In Clg Stee	L WHITE L WHITE L WHITE L WHITE	E OF E OF		3 FILTER	R				

### CONDITIONING SYSTEM

RFORMANCE REQUIREMENTS. EQUALS SHALL BE ACCEPTED

- BISHI PKA-A36KA7, Y-A36NKA7 SEER, R-410A. EED TO OUTDOOR UNIT. . GREES F. QUIPMENT.
- UBISHI PKA-A18HA, JY-A18NHA3 SEER, R-410A. EED TO OUTDOOR UNIT.
- . Grees f.
- EQUIPMENT.
- BISHI PKA-A18HA, '-A18NHA3
- SEER, R-410A. EED TO OUTDOOR UNIT.
- . GREES F.
- QUIPMENT.

### <u>LEGEND</u>

REFRIGERANT

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RECTANGULAR DUCT FLEXIBLE CONNECTION VOLUME DAMPER DROP IN DIRECTION OF AIRFLOW

RISE IN DIRECTION OF AIRFLOW

SUPPLY DUCT UP (OR FROM ABOVE)

SUPPLY DUCT DOWN (OR FROM BELOW)

RETURN OR EXHAUST DUCT UP

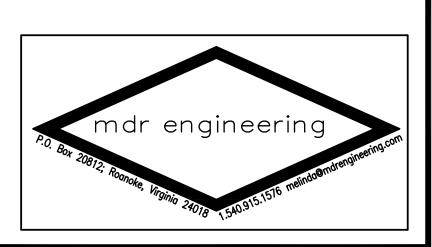
RETURN OR EXHAUST DUCT DOWN

FLEXIBLE DUCT

MOTOR OPERATED DAMPER

REDUCER SMOKE DETECTOR, DUCT MOUNTED THERMOSTAT OR TEMPERATURE SENSOR

A	BREVIATIONS
BTU	BRITISH THERMAL UNIT
CD	CEILING DIFFUSER
CFD	CEILING FIRE DAMPER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
COP	COEFFICIENT OF PERFORMANCE
CR	CEILING REGISTER
DB	DRY BULB TEMPERATURE ENTERING AIR TEMPERATURE
EAT EER	ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EXT	EXTERNAL
F	DEGREES FAHRENHEIT
FPM	FEET PER MINUTE
FT	FEET
HP	HORSEPOWER
IN	INCH, INCHES
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
VD	VOLUME DAMPER
MH MIN	Mounting height Minimum
MOD	MOTOR OPERATED DAMPER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
0A	OUTSIDE AIR
PD	PRESSURE DROP
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
RA	RETURN AIR
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TG TR	Top grille Top register
TYP	TYPICAL
WB	WET BULB TEMPERATURE
WC, WG	WATER COLUMN
AFF	ABOVE FINISHED FLOOR
ABV	ABOVE
AD	ACCESS DOOR
BEL	BELOW
BET	BETWEEN
CLG	CEILING
CONN	CONNECT, CONNECTION
CONT	CONTINUED
DN EA	DOWN EACH
FL	FLOOR
FLEX	FLEXIBLE
FR	FROM
GALV	GALVANIZED
REQD	REQUIRED
SH	SHEET
SDR	DUCT MOUNTED SMOKE DETECTOR

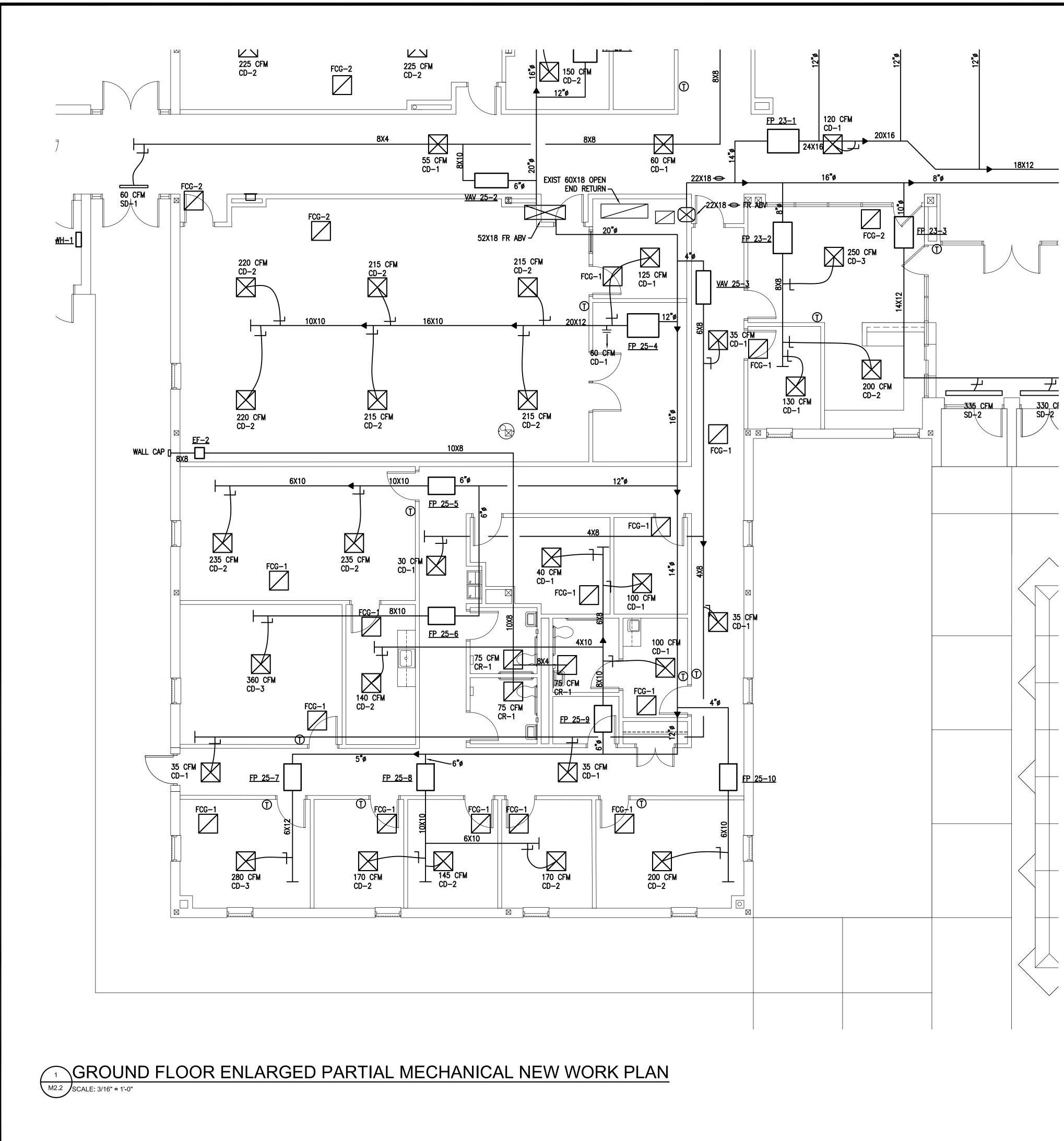


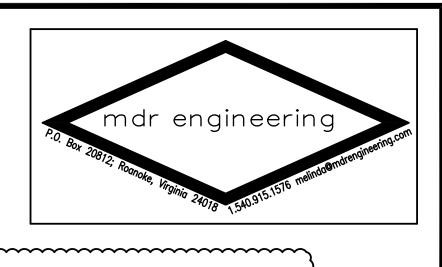


DRAWN BY: MDR MDR REV'D BY: 6/17/22 DATE: SCALE: AS SHOWN MECHANICAL LEGEND & SCHEDULES M0.1

\_\_\_\_\_ of <u>X</u>

SHEET

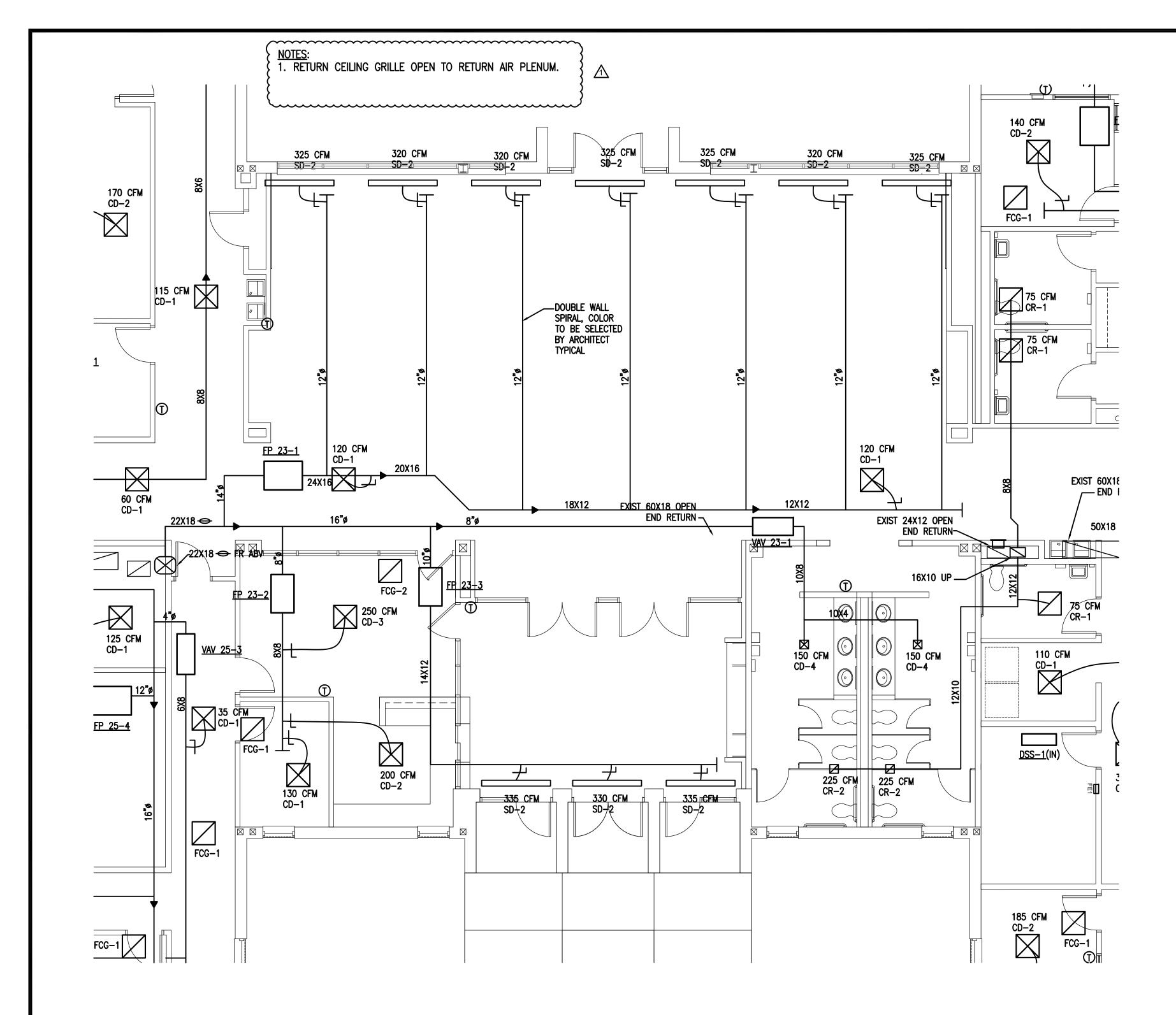




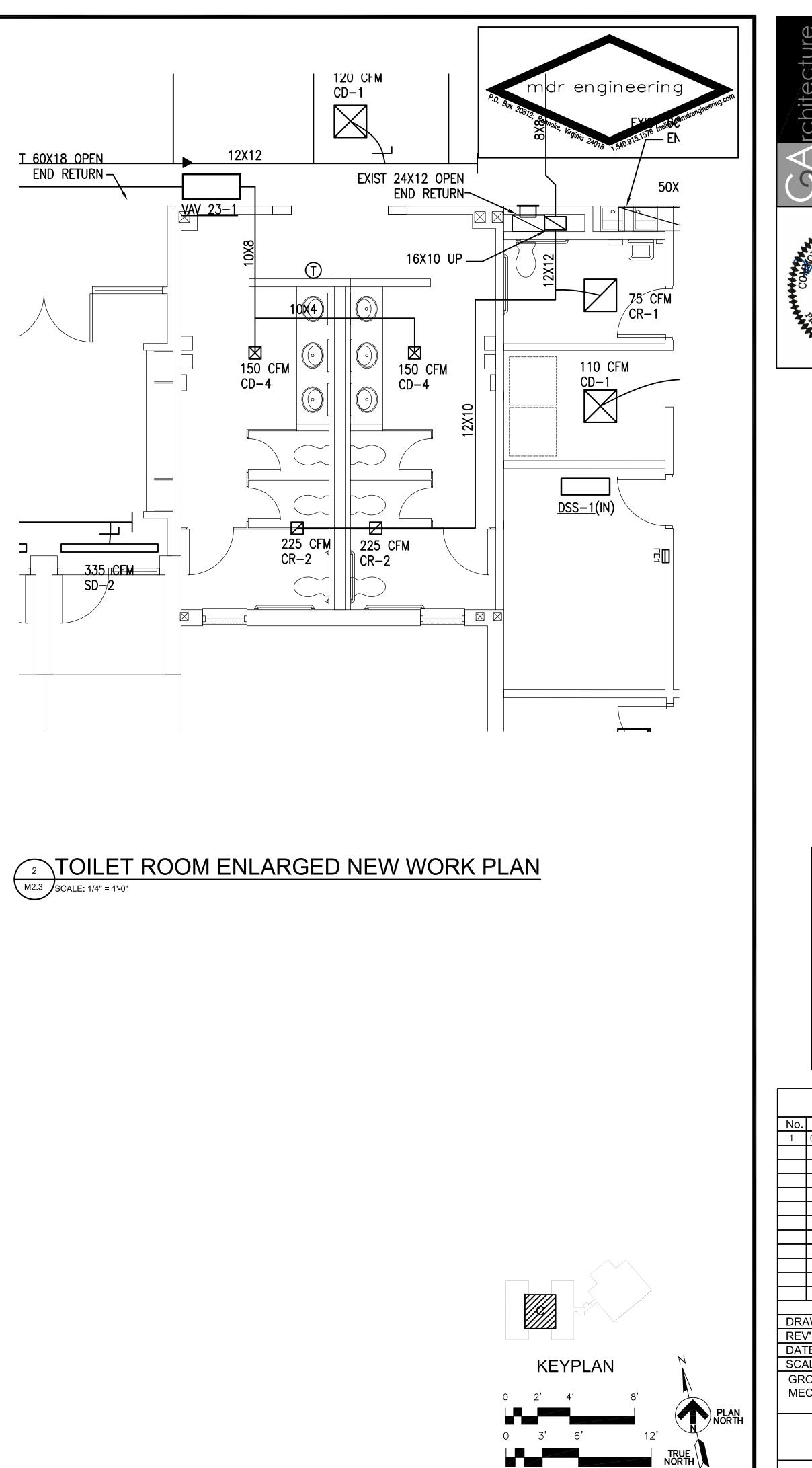
<u>NOTES:</u> 1. RETURN CEILING GRILLE OPEN TO RETURN AIR PLENUM. .....

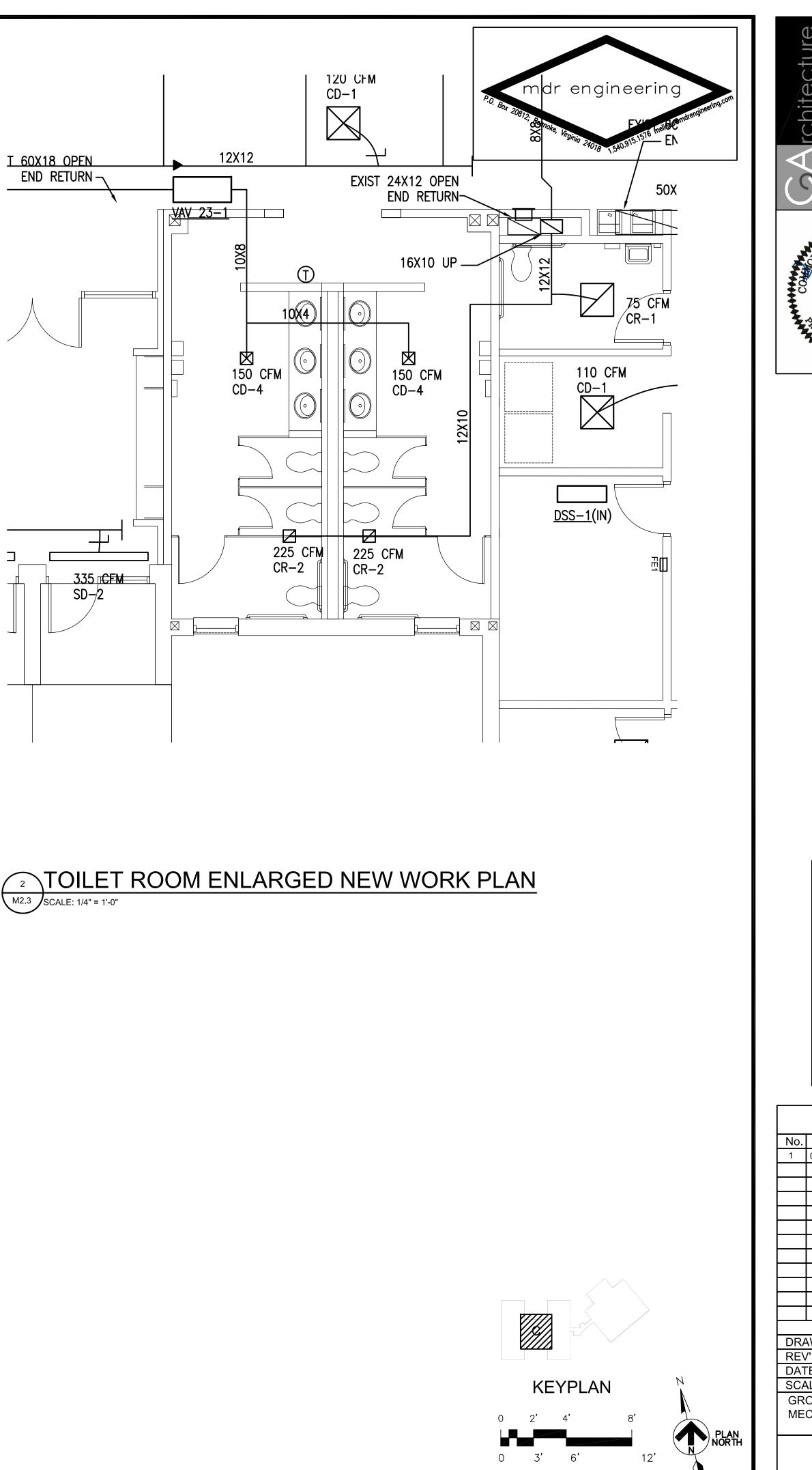


KEYPLAI	N N
0 3' 6'	12'



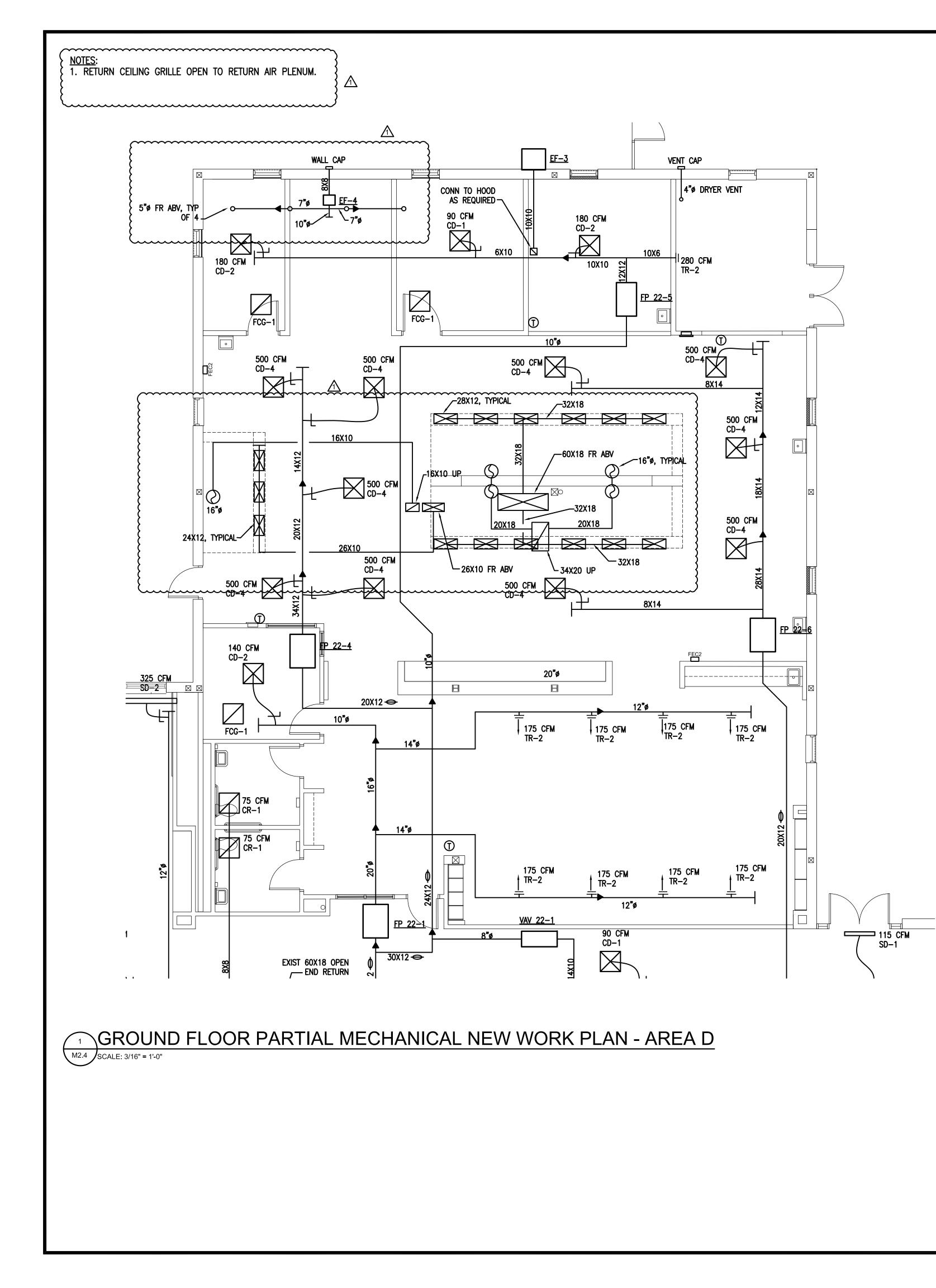
GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA C M2.3 SCALE: 3/16" = 1'-0"

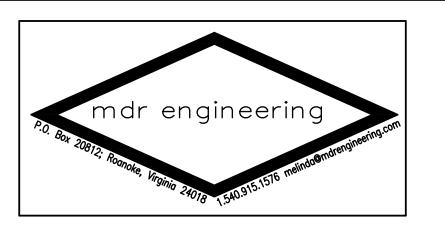




rchitecture A44444444 MELINDA D. RUBLE No. 028163 06.17.2022 100000 NTER Ш D Z ( ` Ζ  $\triangleleft$ VIIO REER Ō A く  $\supset$  $\bigcup$ ROAI RUFFNER Ш HNIC TEC >**ANO** BL  $\frac{2}{2}$ ΡU REVISIONS No. DATE DESCRIPTION 1 07/18/22 ADDENDUM 3 DRAWN BY: MDR MDR REV'D BY: 6/17/22 DATE: AS SHOWN SCALE: GROUND FLOOR PARTIAL MECHANICAL NEW WORK PLAN - AREA C

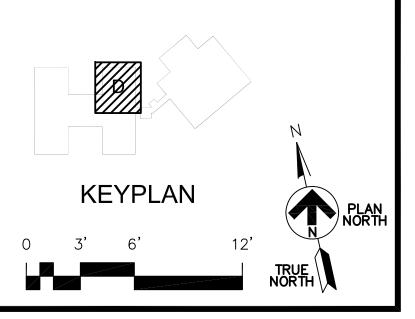
M2.3

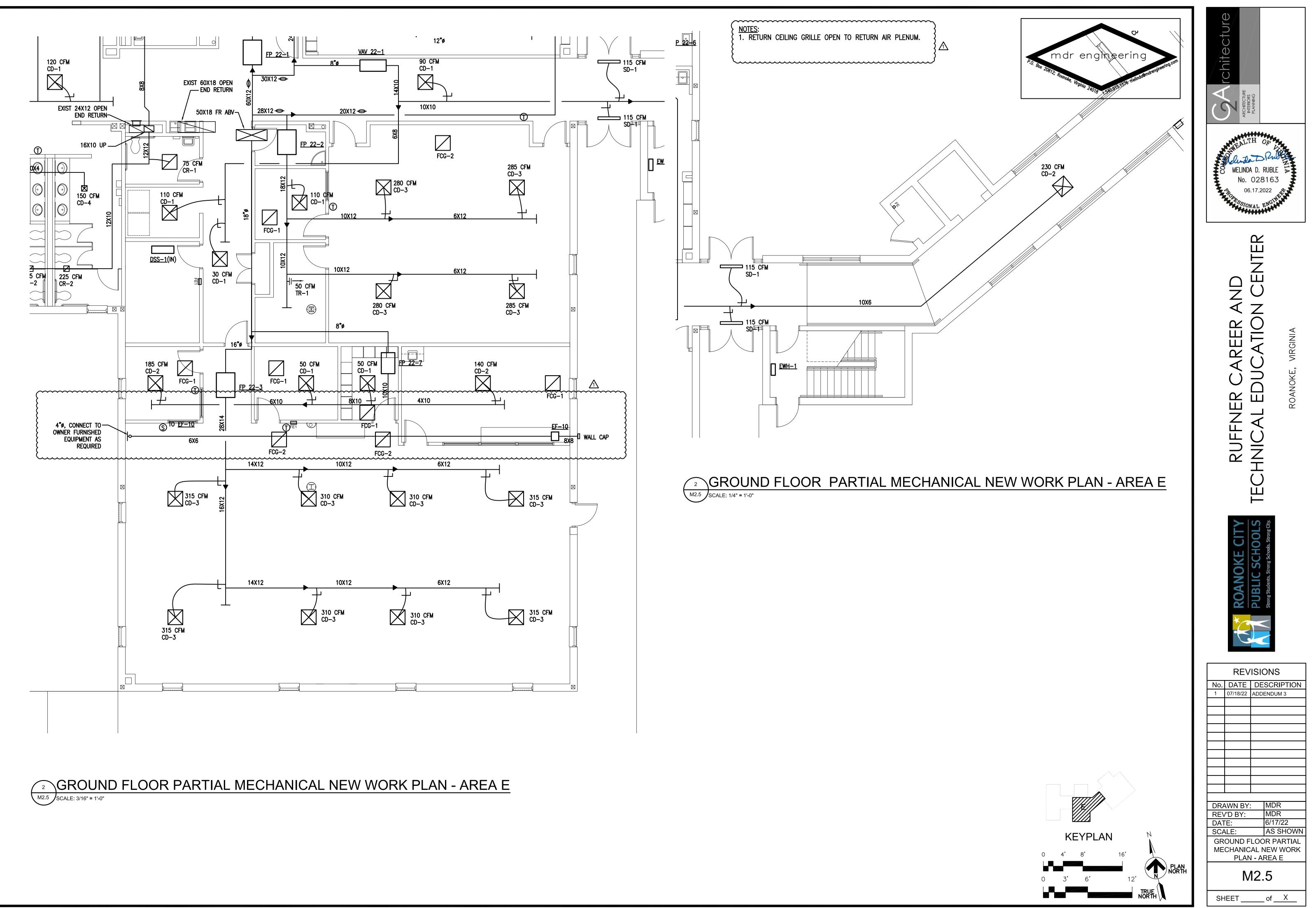


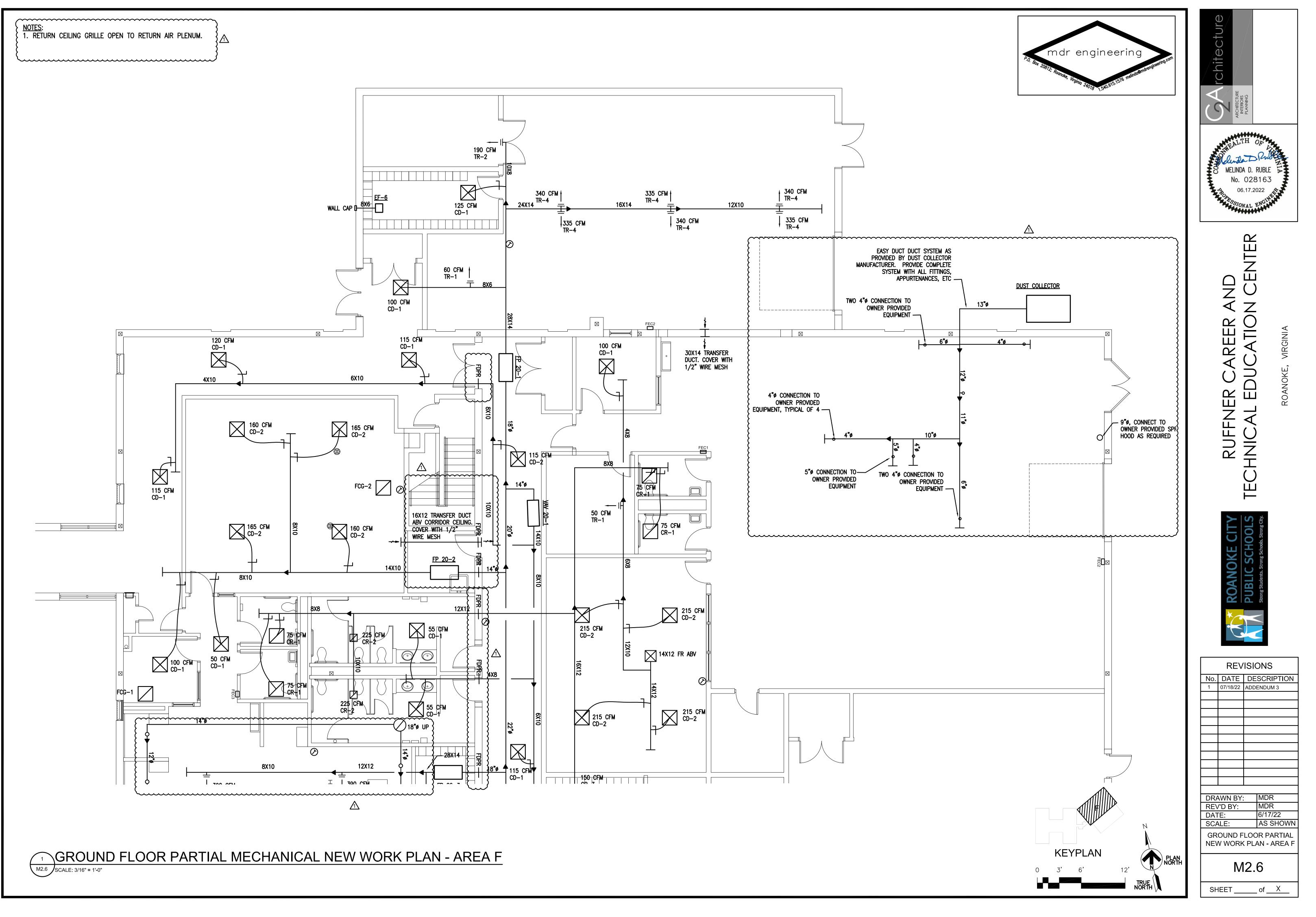


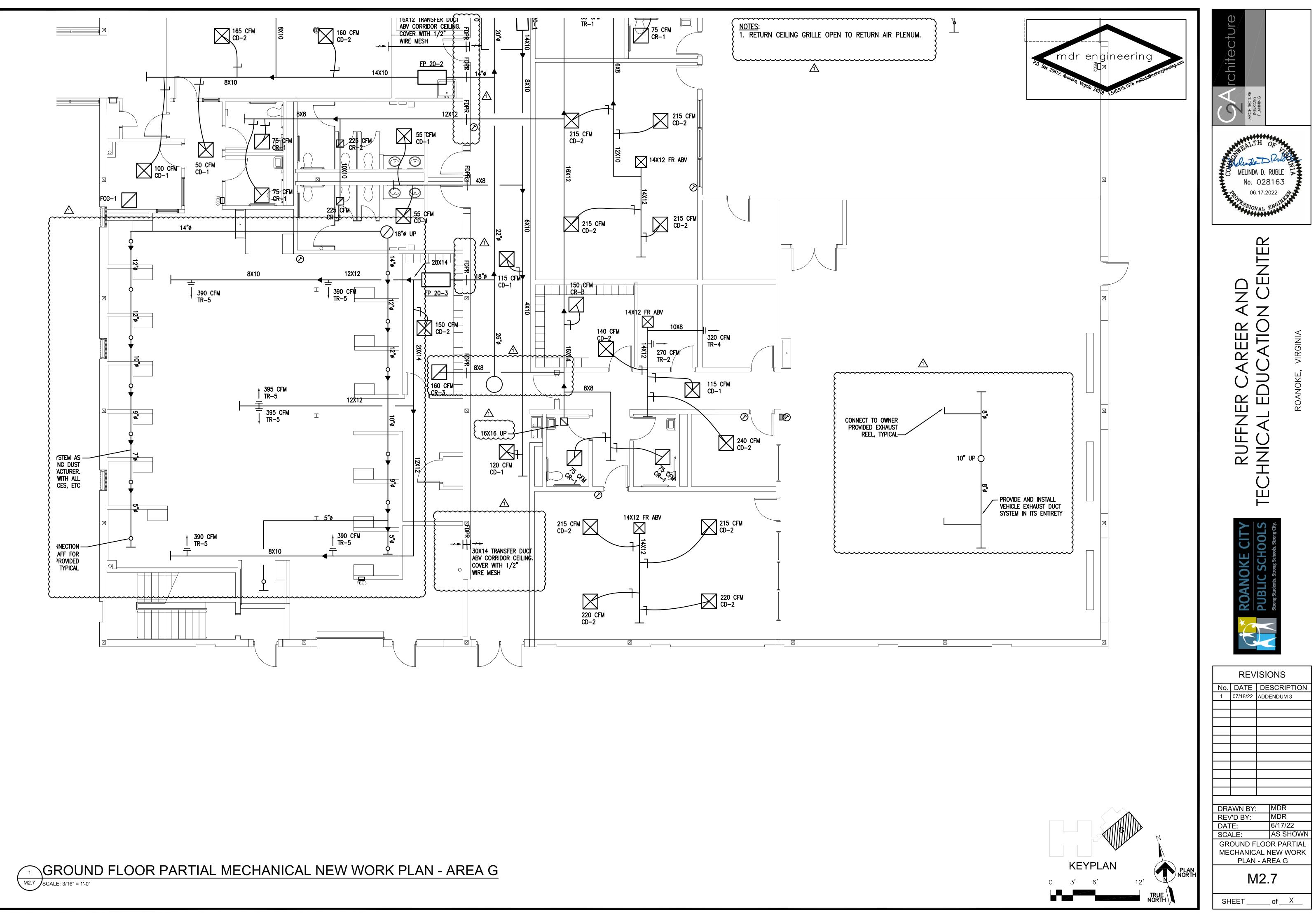


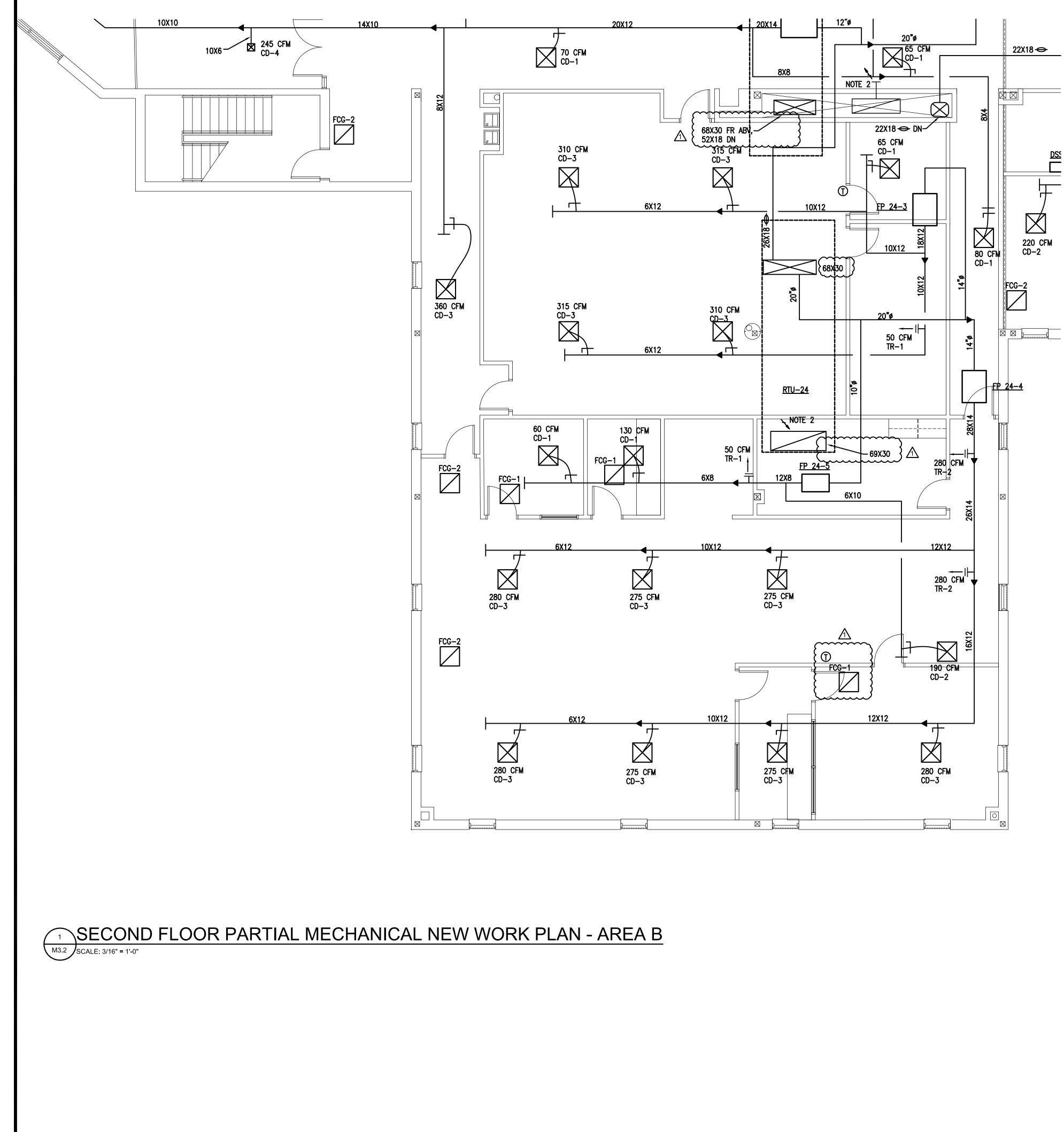
	REVISIONS								
No.	DATE	DESCRIPTION							
1	07/18/22	ADD	ENDUM 3						
	AWN BY	-	MDR						
	/'D BY:	-	MDR						
			6/17/22						
	ALE:		AS SHOWN						
	GROUND FLOOR PARTIAL NEW WORK PLAN - AREA D								
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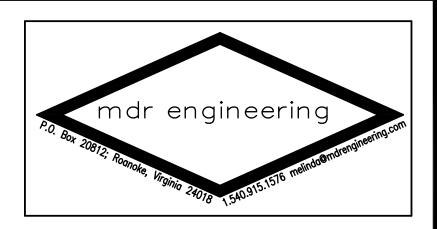












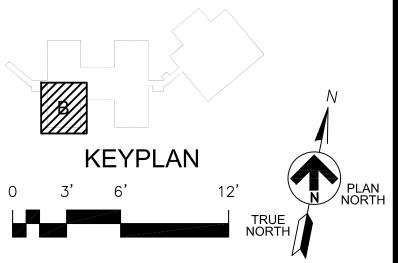
<u>NOTES</u>: 1. RETURN CEILING GRILLE OPEN TO RETURN AIR PLENUM. 2. OPEN END RETURN DUCT ABOVE CEILING. COVER WITH 1/2" WIRE MESH.

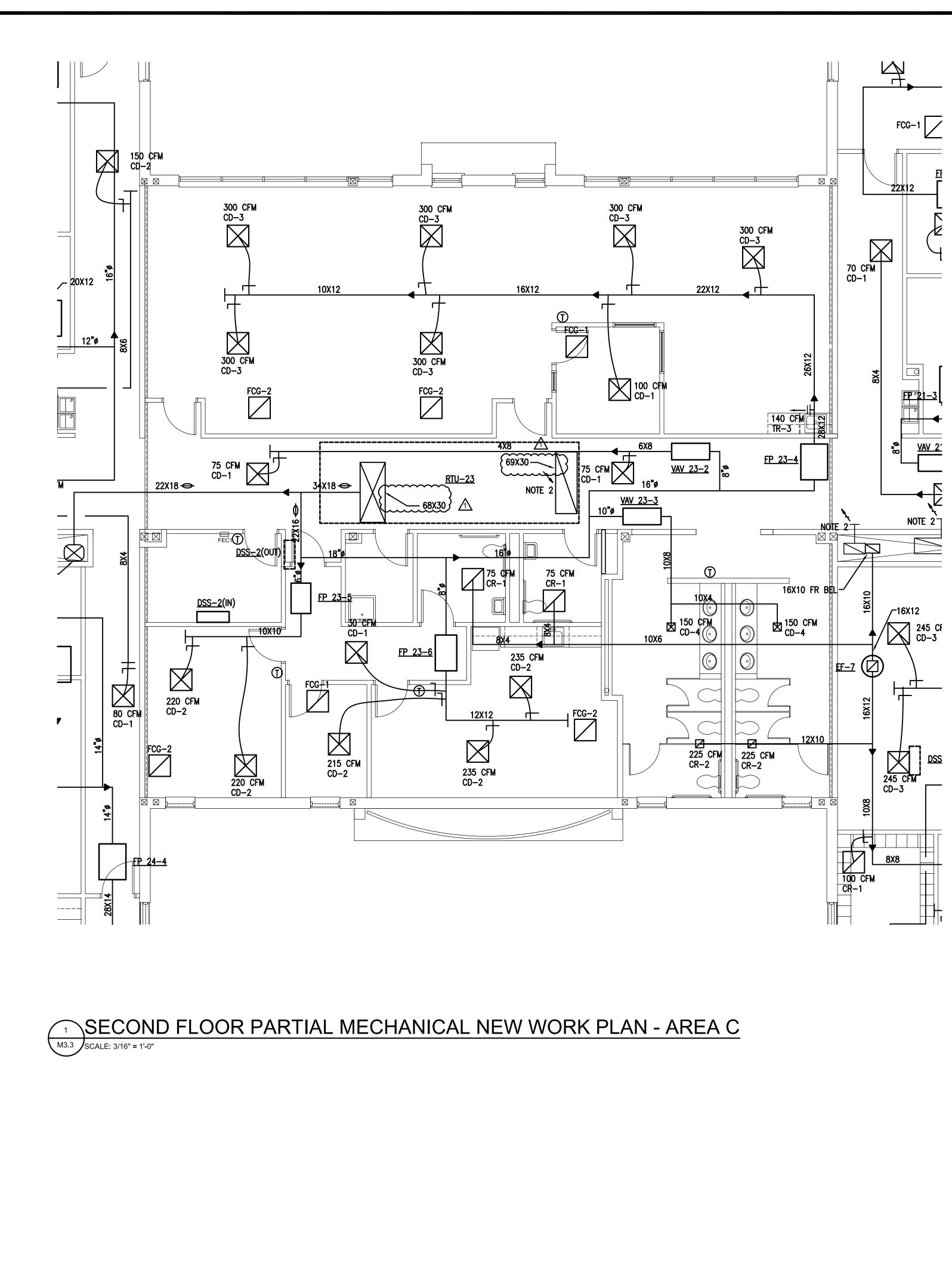
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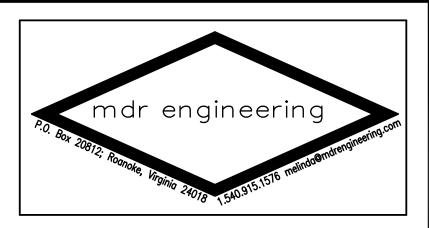


MECHANICAL NEW WORK PLAN - AREA B

M3.2







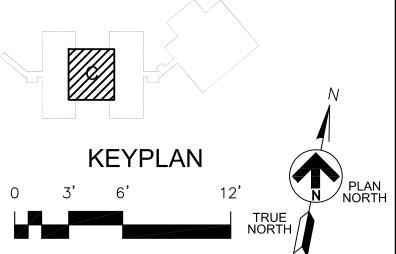
<u>NOTES</u>: 1. RETURN CEILING GRILLE OPEN TO RETURN AIR PLENUM. 2. OPEN END RETURN DUCT ABOVE CEILING. COVER WITH 1/2" WIRE MESH.

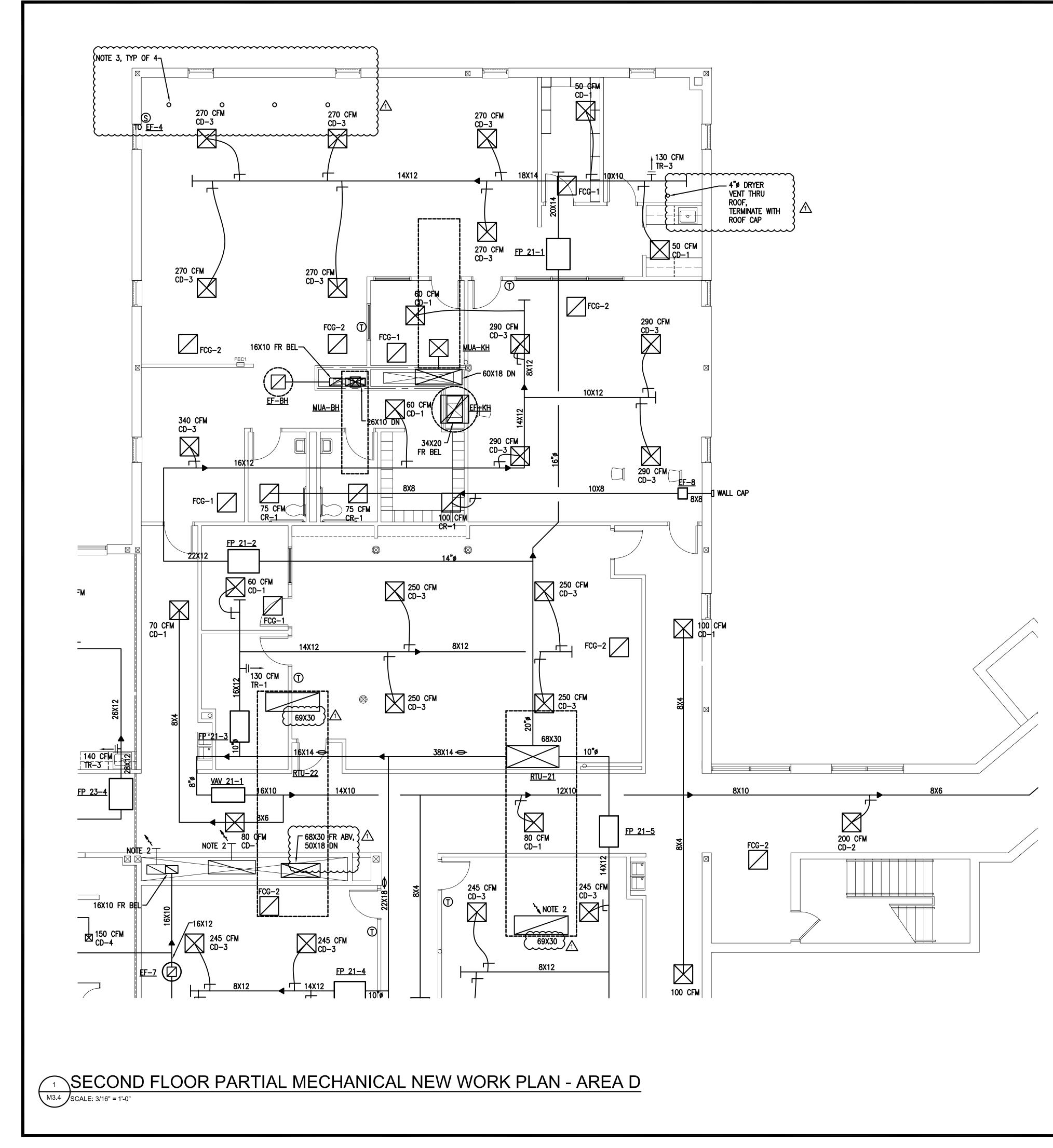
.....

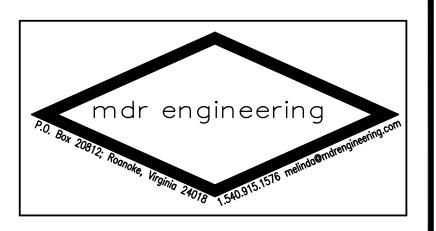
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M3.3



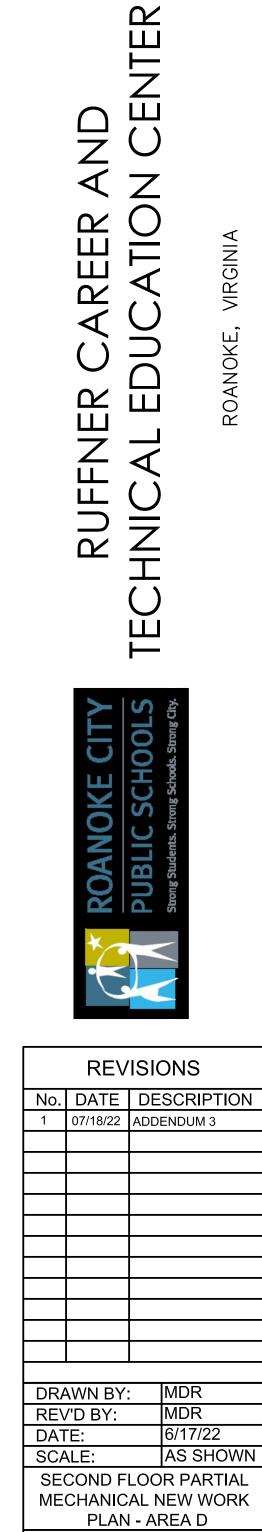




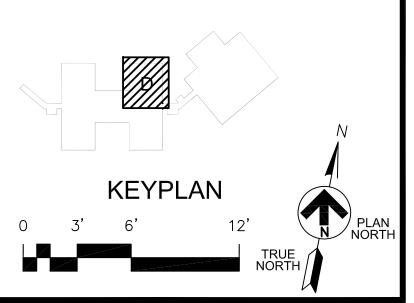
NOTES: { 1. RETURN CEILING GRILLE OPEN TO RETURN AIR PLENUM. { 2. OPEN END RETURN DUCT ABOVE CEILING. COVER WITH 1/2" WIRE

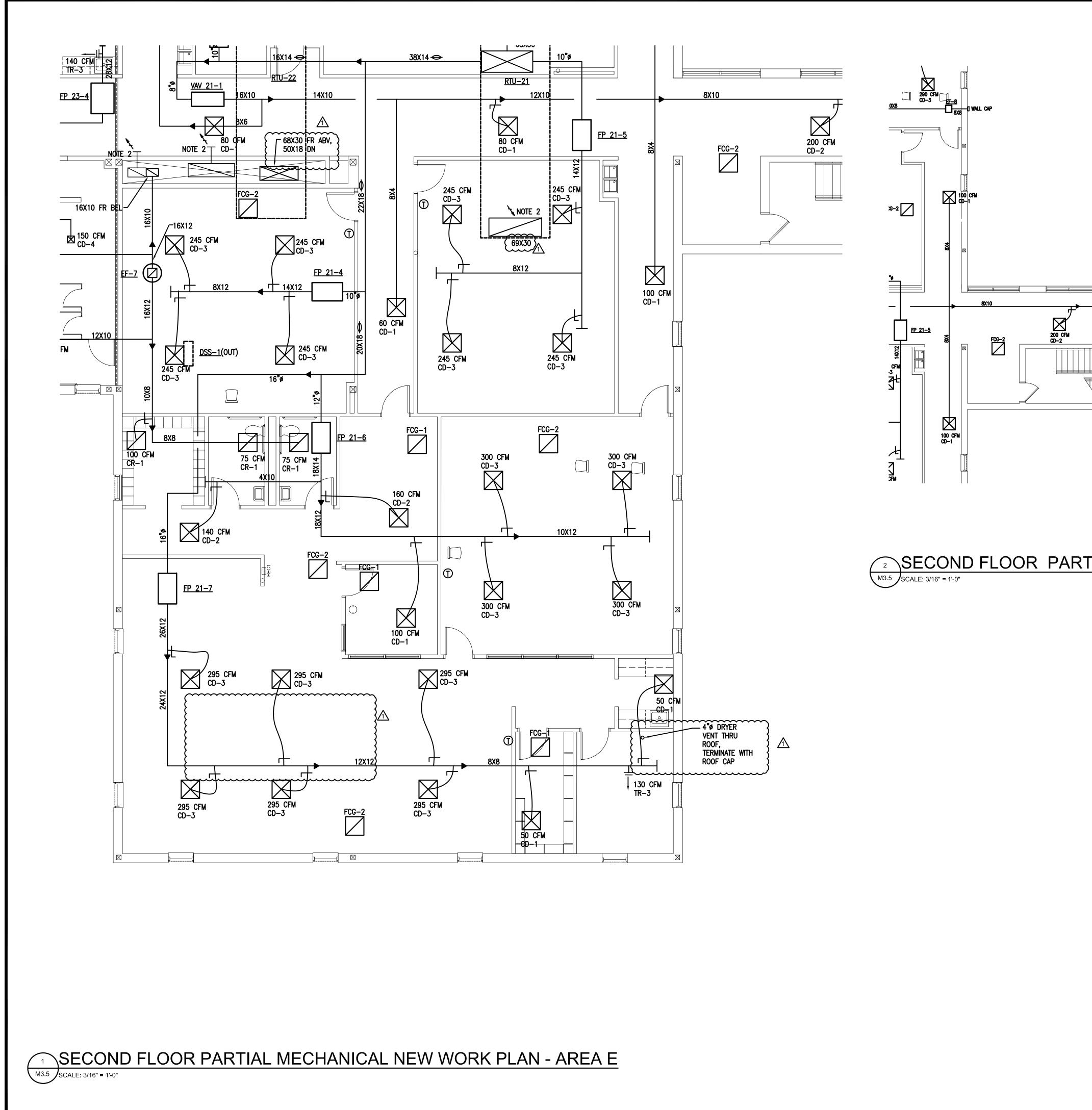
MESH.

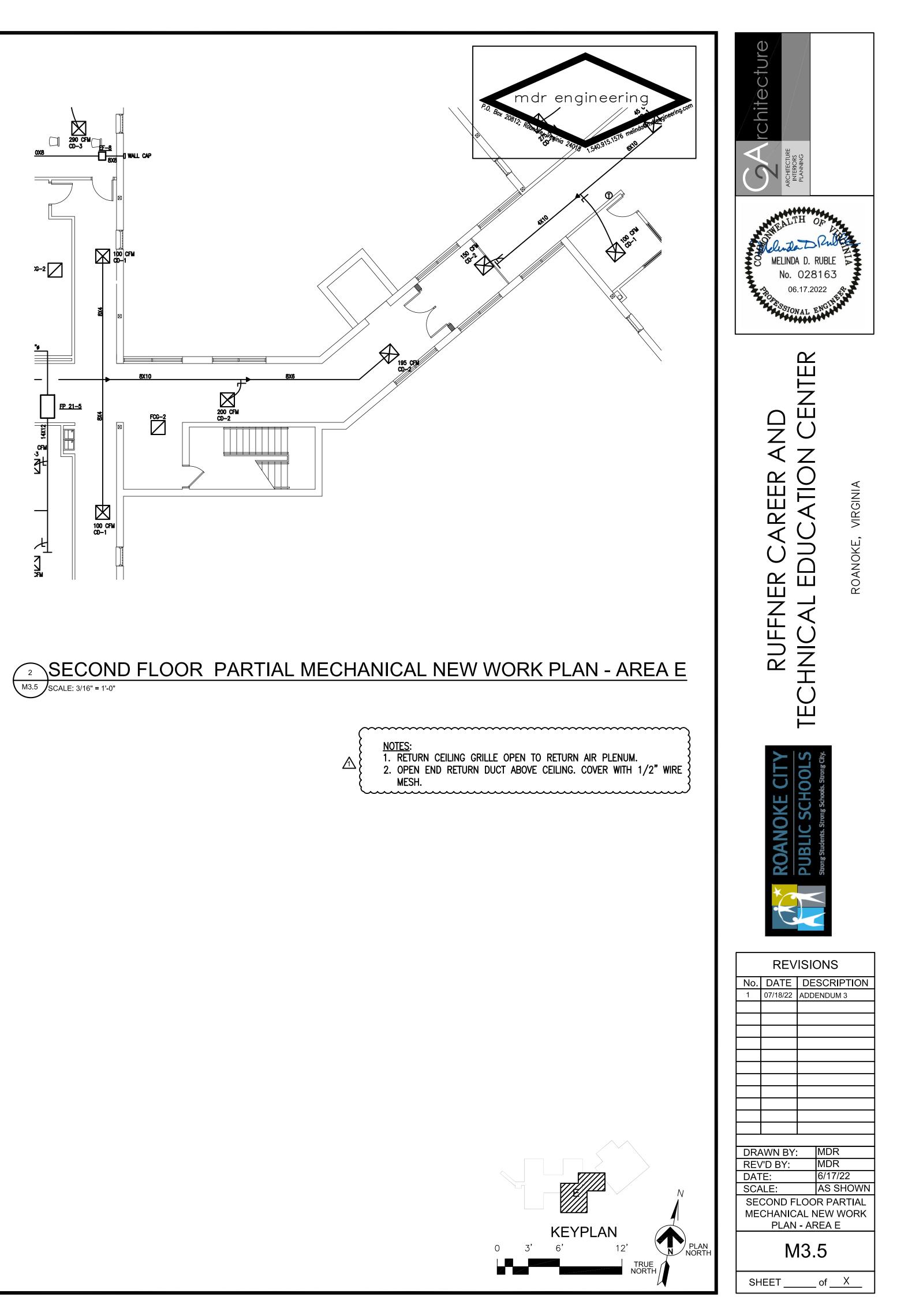
- 3. CONTRACTOR TO CONNECT TO MANICURE TABLE GRILLE AS REQUIRED. EXTEND 5" XHAUST DUCT DOWN TO FIRST FLOOR.
- rchitecture MELINDA D. RUBLE No. 028163 06.17.2022 - ABBOOK

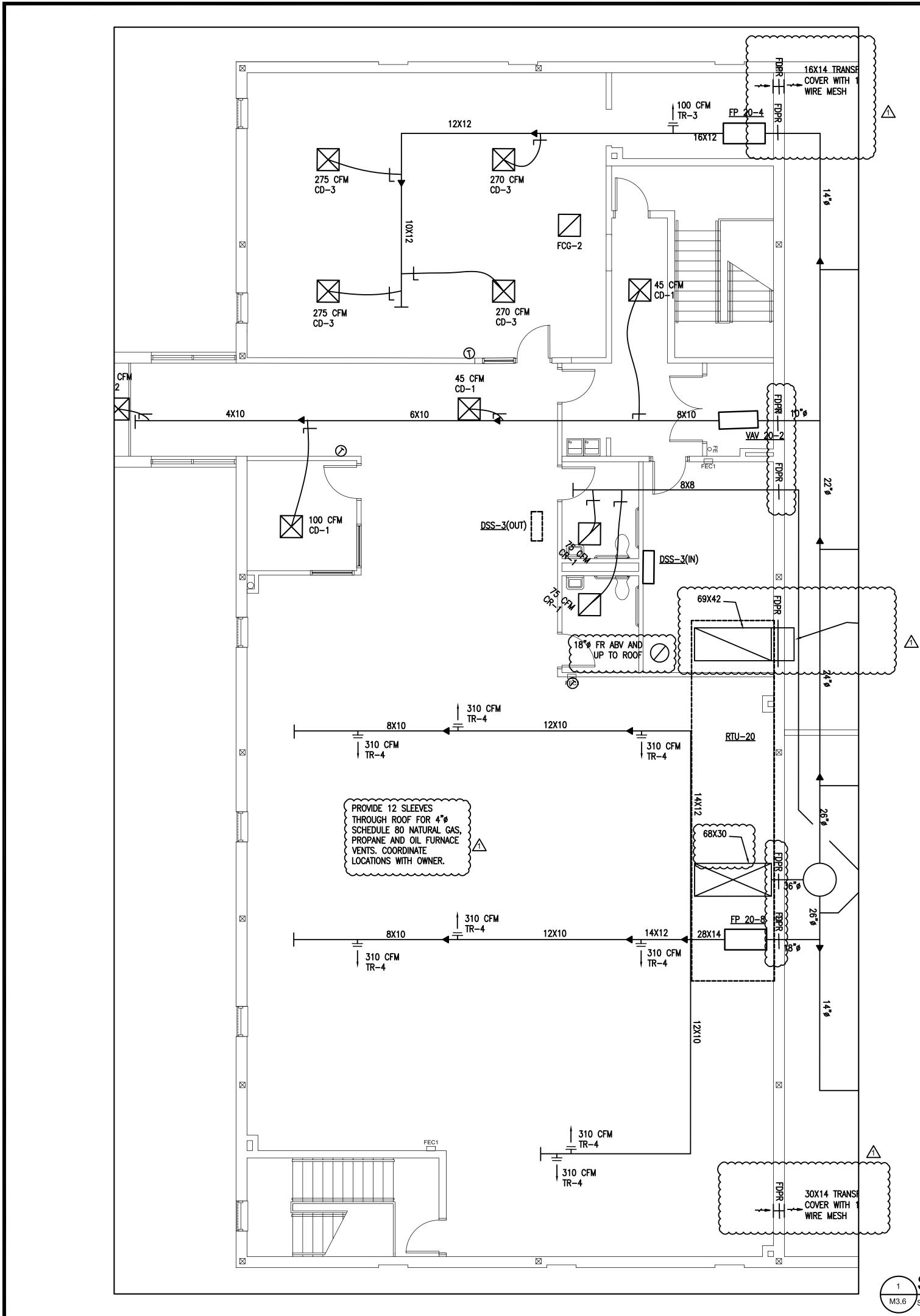


M3.4



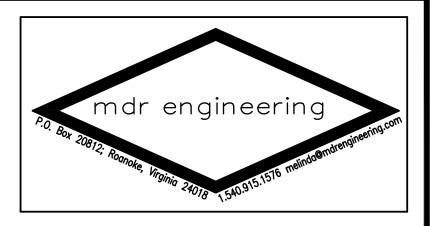






## SECOND FLOOR PARTIAL NEW WORK PLAN - AREA F

M3.6 SCALE: 3/16" = 1'-0"



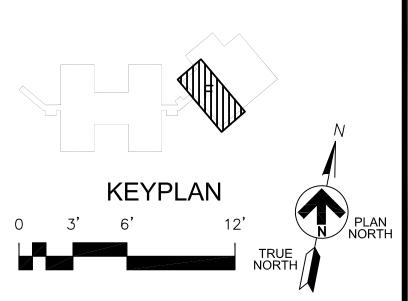
<u>NOTES</u>: 1. RETURN CEILING GRILLE OPEN TO RETURN AIR PLENUM. 2. OPEN END RETURN DUCT ABOVE CEILING. COVER WITH 1/2" WIRE

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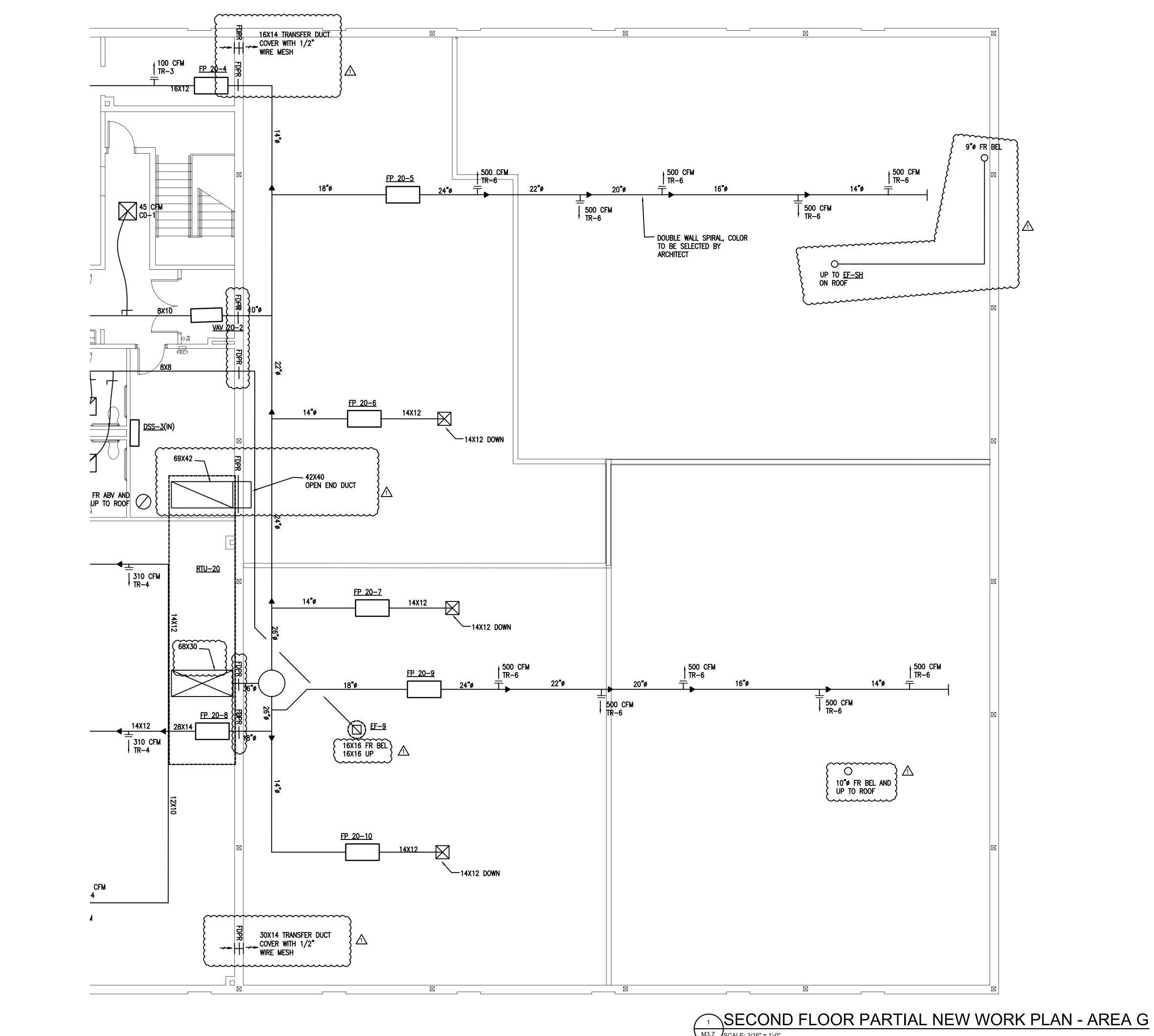
MESH.



M3.6



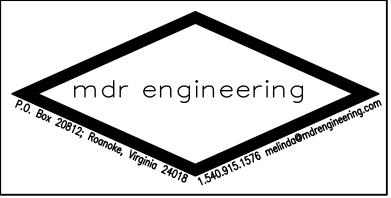




M3.7 SCALE: 3/16" = 1'-0"



SHEET \_\_\_\_\_ of \_\_\_X

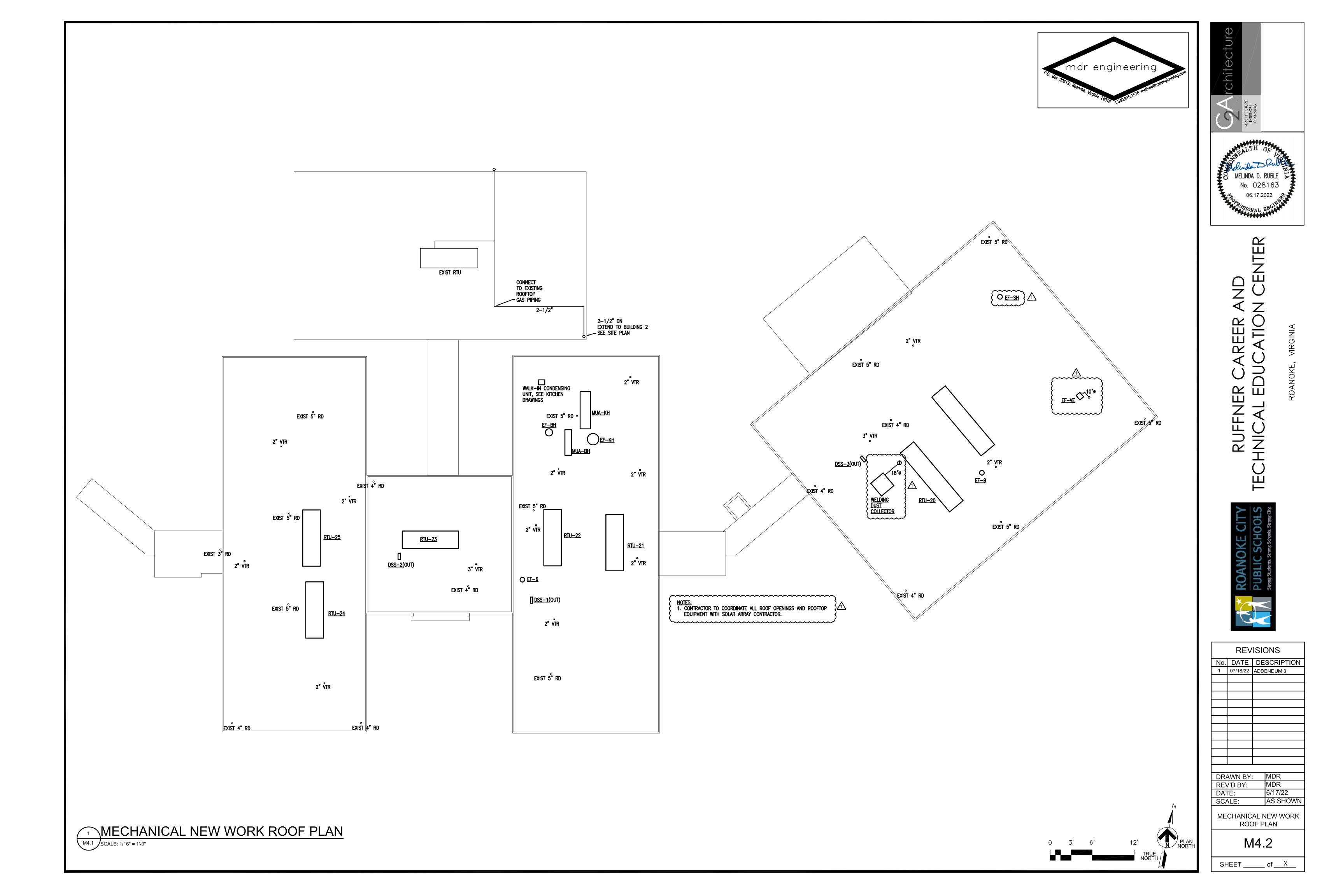


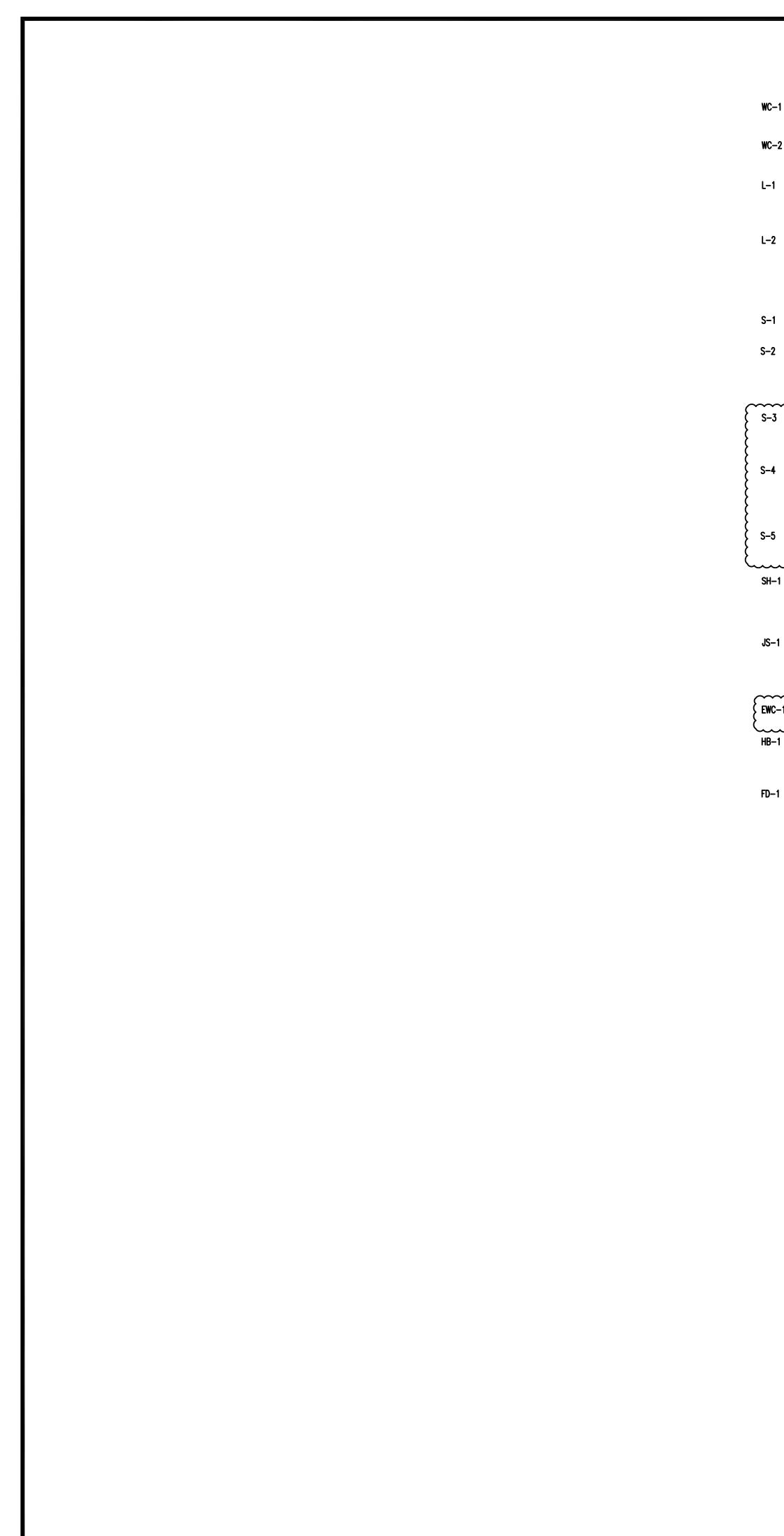
KEYPLAN

12'

TRUE NORTH

0 3'





	PLUMBING EQUIPMENT SCHEDULE		FD-2	JOSAM #30000-5A-2-17 FLOOR DRAIN, SATIN FINISH BRONZE TOP,
	MODEL NUMBERS ARE USED TO ESTABLISH PERFORMANCE REQUIREMENTS. EQUALS SHALL BE ACCEPTED			NON-CLOG STRAINER, SECURED GRATE; 4"DEEP SEAL TRAP, CLAMPING RING. SET RIM FLUSH WITH FINISH FLOOR.
			FS-1	JOSAM #49300 FLOOR SINK, 8" SQUARE CAST IRON WITH 5-7/8" DEEP SUMP, CLAMPING RING
	TOTO CT708E, ELONGATED VITREOUS CHINA WATER CLOSET (FLUSH VALVE WALL MTD., 1.28 GPF); SIPHON JET, BEMIS 1955SSCT ELONGATED SEAT, TOTO TET1LA32 SENSOR TOILET FLUSH VALVE; SIPHON JET CARRIER.		CO	JOSAM CLEANOUT FLOOR ROUND, SATIN BRONZE TOP, RECESSED PLUG.
	TOTO CT708E, ELONGATED VITREOUS CHINA WATER CLOSET (FLUSH VALVE WALL MTD., 1.28 GPF); SIPHON JET, BEMIS 1955SSCT ELONGATED SEAT, TOTO TET1LA32 SENSOR TOILET FLUSH VALVE; SIPHON JET CARRIER.		OIL/	WALL CHROME FLUSH WALL PLATE, RECESSED PLUG. ZURN Z1188 OIL INTERCEPTOR, 100 GPM. 110 GALLON
	AMERICAN STANDARD LUCERNE #0356.041, VITREOUS CHINA; MOEN 8210F15 FAUCET WITH WHEELCHAIR OFFSET GRID DRAIN STRAINER		SEDIMENT TRAP	
	AND ANGLE SUPPLIES WITH LOOSE KEY STOPS; PROVIDE ZURN Z1231 CARRIER. PROVIDE THERMOSTATIC MIXING VALVE, WILKINS MODEL ZW1070 AND P-TRAP.		ST-1	ZURN Z1187—SI SEDIMENT INTERCEPTOR, 20 GPM FLOW RATE, 60 GALLON STATI CAPACITY
	AMERICAN STANDARD AQUALYN 0475.020, VITREOUS CHINA; MOEN FAUCET MODEL NO. 8210F15 WITH WHEELCHAIR OFFSET; GRID DRAIN STRAINER,		E <b>W</b> -1	HAWS MODEL 7360B-7460B EMERGENCY EYE WASH OR EQUAL WITH THERMOSTATIC MIXING VALVE
	AND ANGLE SUPPLIES WITH LOOSE KEY STOPS. PROVIDE TRUBRO #102W PRE- MOLDED INSULATION KIT INSULATING BOTH SUPPLIES AND DRAIN. PROVIDE THERMOSTATIC MIXING VALVE, WILKINS MODEL ZW1070, ASSE 1070 COMPLIANT.		WMB	ABS BOXES, ONE BOX WITH CENTER DRAIN AND ONE BOX WITH TWO WATER VAL & WATER HAMMER ARRESTORS. PROVIDE FLANGED BOXES SUITABLE FOR DRYWAL
			TD-1	ZURN Z884 4" WIDE TRENCH DRAIN SYSTEM, 3.25" THROAT; CHANNEL TO
	FIAT FL-1 MOLDED STONE SERV-A-SINK; FIAT A-1 DECK MOUNTED FAUCET, CHROME P-TRAP AND SUPPLIES. ELKAY #LRAD-2522 LUSTERSTONE STAINLESS STEEL SINGLE BOWL			HAVE 1.04% BUILT—IN SLOPE & INVERT TO BE DETERMINED BY CONTRACTOR; PROVIDE WITH 2" END OUTLET, CAST IRON SLOTTED GRATE AND END CAP. TRENCH DRAIN TOTAL LENGTH SHALL BE 8'-0".
	HANDICAP KITCHEN SINK, 18 GA., TYPE 304 STAINLESS STEEL SINGLE BOWL HANDICAP KITCHEN SINK, 18 GA., TYPE 304 STAINLESS SELF RIM, 4-HOLE, 6-1/2 DEEP; #420 DELTA FAUCET WITH 8" SPOUT, SINGLE LEVER CONTROL AND SPRAY ATTACHMENT, CHROME P-TRAP AND SUPPLIES, #LK35 STRAINERS.		HWH—1	STATE PCE-6-10MSA-25 ELECTRIC WATER HEATER, SINGLE ELEMENT, 10 GAL. CAPACITY TANK, 10 GAL/HR RECOVERY AT 40 DEG. F. AND 100 DEG.F. RISE, 2500 W; 230/1; T&P RELIEF VALVE.
~~	BUY-RITE ICON BACKWASH UNIT, BLACK BOWL; WITH DUAL FUNCTION NOZZLE, VACUUM BREAKER, #8750 JR SMITH HAIR INTERCEPTOR, CHROME P-TRAP AND SUPPLIES, PROVIDE THERMOSTATIC MIXING VALVE, WILKINS MODEL ZW1070,		HWH-2	STATE PCE-6-10MSA-15 ELECTRIC WATER HEATER, SINGLE ELEMENT, 10 GAL. CAPACITY TANK, 6 GAL/HR RECOVERY AT 40 DEG. F. AND 100 DEG.F. RISE, 1500 W; 230/1; T&P RELIEF VALVE.
	ASSE 1070 COMPLIANT ELKAY #LRAD-2522 LUSTERSTONE STAINLESS STEEL SINGLE BOWL HANDICAP KITCHEN SINK, 18 GA., TYPE 304 STAINLESS SELF		HWH-3	STATE PCE-20-10MSA-35 ELECTRIC WATER HEATER, SINGLE ELEMENT, 10 GAL. CAPACITY TANK, 14 GAL/HR RECOVERY AT 40 DEG. F. AND 100 DEG.F. RISE, 3500 W; 230/1; T&P RELIEF VALVE.
	RIM, 4—HOLE, 6—1/2 DEEP; #420 DELTA FAUCET WITH 8" SPOUT, SINGLE LEVER CONTROL, CHROME P—TRAP AND SUPPLIES, #LK35 STRAINERS, WILKINS ZW1070 TMV, HAWS 7610 EYE WASH.		HWH-4	STATE SUF119-400E GAS FIRED WATER HEATER, 119 GALLON CAPACITY TANK, 460 GAL/HR RECOVERY AT 40 DEG. F. ENT. AND 100 DEG.F. RISE, 120V/1ø; 399.9 MBH; ASME RATED, T&P RELIEF VALVE.
~~	ELKAY #EWMA4820C STAINLESS STEEL MULTIPLE STATION HAND WASH SINK 14 GA., WALL MOUNT WITH LK18B DRAIN AND TWO LK940GN05T4H FAUCETS; OFFSET TAIL PIECE, CHROME P-TRAP AND SUPPLIES		HWH-5	STATE CSB-53-135-SFE ELECTRIC WATER HEATER, THREE ELEMENTS, 50 GAL. CAPACITY TANK, 55 GAL/HR RECOVERY AT 40 DEG. F. AND 100 DEG.F. RISE, 13500 W; 230/1; T&P RELIEF VALVE.
	FREEDOM SHOWERS APFQ6337BF875, 63X38 SHOWER COMPLETE PACKAGE TO INCLUDE CURTAIN ROD, SEAT, GRAB BARS, DRAIN; MOEN 2352 SINGLE HANDLE SHOWER VALVE WITH SHOWER HEAD, PRESSURE BALANCED. COLOR TO BE WHITE.		Ч <b>ш</b> н-6	STATE PCE-20-10MSA-4 ELECTRIC WATER HEATER, SINGLE ELEMENT, 20 GAL. CAPACITY TANK, 17 GAL/HR RECOVERY AT 40 DEG. F. AND 100 DEG.F. RISE, 4000 W; 230/1; T&P RELIEF VALVE.
	FIAT #MSB-2424 MOLDED STONE MOP SERVICE BASIN, 24"x24"x10"; #830-AA WALL MTD FAUCET W/VACUUM BREAKER & BUCKET HOOK; #832-AA HOSE & BRACKET, #E-77-AA VINYL BUMPER GUARD.		HWH-7	STATE PCE-40-20LSA-5 ELECTRIC WATER HEATER, SINGLE ELEMENT, 40 GAL. CAPACITY TANK, 21 GAL/HR RECOVERY AT 40 DEG. F. AND 100 DEG.F. RISE, 5000 W; 230/1; T&P RELIEF VALVE.
~~	#889-CC MOP HANGER & #QDC-3-2 QUICK DRAIN CONNECTOR, #MSG2424 STAINLESS STEEL WALL GUARDS.	$\sim$	HWH-8	STATE PCE-40-20LSA-5 ELECTRIC WATER HEATER, SINGLE ELEMENT, 40 GAL. CAPACITY TANK, 21 GAL/HR RECOVERY AT 40 DEG. F. AND 100 DEG.F. RISE, 5000 W; 230/1; T&P RELIEF VALVE.
	OASIS #PGF8EBFSLTT TOUCHLESS TWO STATION ELECTRIC WATER COOLER, STAINLESS STEEL, LEAD FREE WORKING COMPONENTS; 8.0 GPH CAPACITY AND 4.6 AMPS.	}A	SP-1	ZOELLER N153 SUMP PUMP, 1/2 HP., 120/1 PHASE,
~~	CHICAGO FAUCETS 293-E27CP INSIDE SILL FITTING, POLISHED CHROME PLATED FINISH SOLID BRASS BODY CONSTRUCTION, 2-1/4" TEE HANDLE, 1/2", NPT FEMALE INLET, 3/4" MALE GARDEN HOSE THREAD OUTLET, SLOW COMPRESSION RENEWABLE CARTRIDGE, VACUUM BREAKER.			50 GPM AT 20 FT. HEAD, $1-1/2$ " EFFLÜENT, DIAPHRAGM PRESSURE SWITCH, PROVIDE DISCONNECT. UNIT TO BE HYDRAULIC FLUID SENSING TYPE WITH ALARM PANEL.
	JOSAM #30000-5A-2-17 FLOOR DRAIN, SATIN FINISH BRONZE TOP, NON-CLOG STRAINER, SECURED GRATE; 4"DEEP SEAL TRAP. SET RIM FLUSH WITH FINISH FLOOR.		RPZ	WATTS #909 REDUCED PRESSURE ZONE BACKFLOW PREVENTOR, BRONZE CONSTRUCTION, EPOXY COATED CAST IRON CHECK VALVE BODY WITH BRONZE SEATS, FDA APPROVED EPOXY COATED CAST IRON RELIEF VALVE WITH TRIM.
			HWRP-1	BELL & GOSSET #100 CIRCULATING PUMP, 1/12 HP., 120 VOLT, 15 GPM AT 7 FT. HEAD, BRONZE TOP.

### PLUMBING FIXTURE INSTALLATION SCHEDULE

FIXTURE	MARK	МН	CW	HW	VENT	WASTE	
WATER CLOSET(HC)	WC-1	17 <b>"</b>	1"		2*	4"	
WATER CLOSET	WC-2	15 <b>"</b>	1"		2"	4 <b>"</b>	
LAVATORY	L-1	34"	1/2"	1/2"	1-1/2"	2"	
LAVATORY	L-2	COUNTER	1/2"	1/2"	1-1/2"	2"	
JANITOR SINK	JS-1	FLOOR	1/2"	1/2"	1-1/2"	2"	
SHOWER	SH-1	72 <b>"(</b> A)	1/2"	1/2"	-	-	
ELECTRIC WATER COOLER	EWC-1	36 <b>*</b> (B)	1/2"		1-1/2"	2"	
SINK	S-1	FLOOR	1/2"	1/2"	1-1/2"	2"	
SINK	S-2	COUNTER	1/2"	1/2"	1-1/2"	2"	
{ SINK	S-3	FLOOR	1/2"	1/2"	1-1/2"	2"	
SINK	S-4	COUNTER	1/2"	1/2"	1-1/2"	2"	
SINK	S-5	34"	1/2"(2)	1/2"(2)	) 1-1/2"	2"	

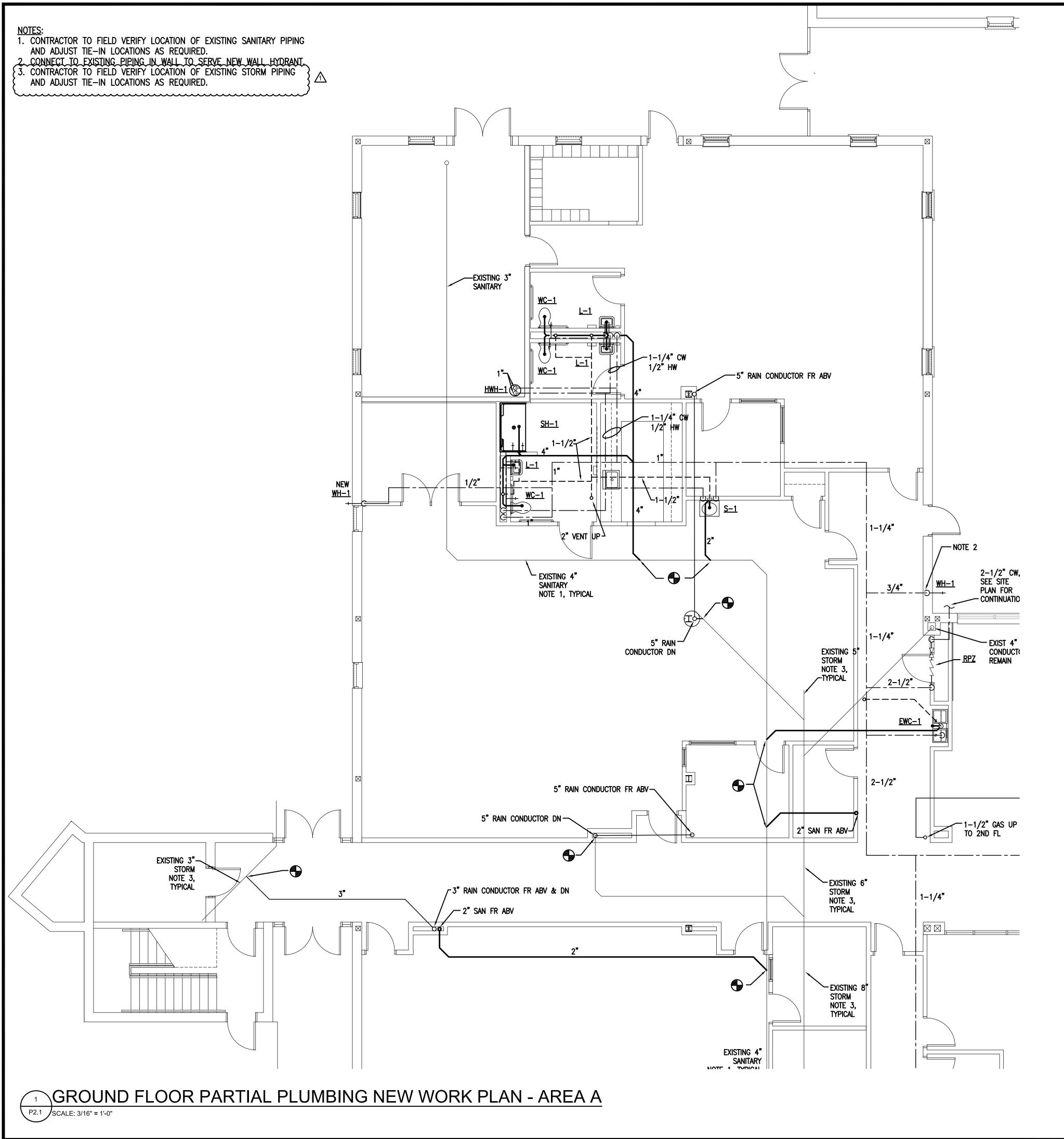
<u>NOTES</u>
1. SIZE GIVEN ARE FOR FIXTURE ONLY. EXCEPTIONS, IF ANY, ARE SHOWN ON PLANS.
2. MOUNTING HEIGHT DIMENSIONS ARE TO FLOOD LEVEL RIM OF FIXTURE, UNLESS NOTED OTHERWISE.

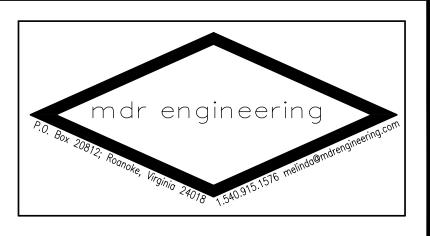
- (A) MOUNTING HEIGHT TO SHOWER HEAD
- (B) MOUNTING HEIGHT TO LOWER SPOUT OUTLET.

ALL PUBLIC FAUCETS SHALL BE PROVIDED WITH TEMPERING VALVE, WILKINS MODEL #ZW1070 OR EQUAL AS REQUIRED.

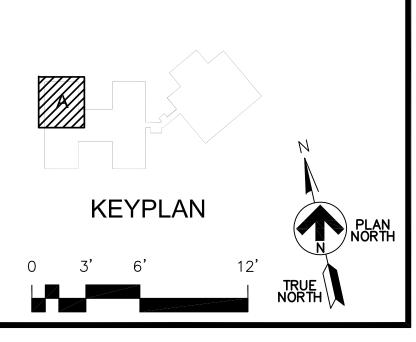
WALL INSTALLATION       RL       NAIN LEADER ABOVE LOWEST FLOOR         SD       STORM SEWER OR DRAIN         OC       CLEANOUT FLUSH WITH FLOOR         CO       CLEANOUT BELOW FLOOR         +	MALL INSTALLITION       RL       NAIN LEADER ABOVE LOWEST FLOOR         SD       STORM SEWER OR DRAIN         CO       CLEANOUT FLUSH WITH FLOOR         CO       CLEANOUT BELOW FLOOR         +		LEGEND BRANCH CONNECTION - BOTTOM OF MAIN BRANCH CONNECTION - SIDE OF MAIN BRANCH CONNECTION - TOP OF MAIN PIPE DOWN OR PIPE FROM BELOW PIPE UP OR PIPE FROM ABOVE DIRECTION OF FLOW DOMESTIC COLD WATER DOMESTIC HOT WATER SPRINKLER HEAD SANITARY SEWER OR DRAIN SANITARY VENT
ABV       ABVVE         BTU       BRITISH THERMAL UNIT         BEL       BELOW         BET       BETWEEN         CLG       CELING         CONC       CONCRETE         CONN       CONNECT, CONNECTION         CW       COLD WATER         CONT       CONTINUED         DN       DOWN         EACH       EWC         EWC       ELECTRIC WATER COOLER         F       DEGREES FARENHEIT         FD       FLOOR DRAIN         FL       FLOOR         FT       FEET         GPM       GALLONS PER MINUTE         GV       GATE VALVE         HB       HOSE BIBB         HW       HOT WATER         IN       INCH, INCHES         MAX       MAXIMUM         MIN       MINUMUM         REQD       REQUIRED         RL       ROOF LEADER         SH       SHEET         TEMP       TEMPERATURE         TYP       TYPICAL         V       SANITARY VENT	ABV ABOVE BTU BRITISH THERMAL UNIT BEL BELOW BET BETWEEN CLG CELLING CONC CONCRETE CONN CONNECT, CONNECTION CW COLD WATER CONT CONTINUED DN DOWN EA EACH EWC ELECTRIC WATER COOLER F DEGREES FARENHEIT FD FLOOR DRAIN FL FLOOR FR FROM FT FEET GPM GALLONS PER MINUTE GV GATE VALVE HB HOSE BIBB HW HOT WATER IN INCH, INCHES MAX MAXIMUM MIN MINUMUM MIN MINUMUM MIN MINUMUM MIN MINUMUM RD ROOF DRAIN REQD REQUIRED RL ROOF LEADER SH SHEET TEMP TEMPERATURE TYP TYPICAL V SANITARY WASTE	ALL INSIALLANION. R; 	<ul> <li>RAIN LEADER ABOVE LOWEST FLOOR</li> <li>STORM SEWER OR DRAIN</li> <li>CLEANOUT FLUSH WITH FLOOR</li> <li>CLEANOUT BELOW FLOOR</li> <li>HOSE BIBBS (PLAN &amp; ELEVATION)</li> <li>GATE VALVE</li> <li>BALL VALVE</li> <li>THERMOMETER</li> <li>PRESSURE REDUCING VALVE (PRV)</li> <li>RELIEF VALVE</li> <li>BACKFLOW PREVENTER (BFP)</li> <li>CONNECT TO EXISTING</li> </ul>
YPE GPM GALLONS PER MINUTE GV GATE VALVE HB HOSE BIBB HW HOT WATER IN INCH, INCHES MAX MAXIMUM MIN MINUMUM RD ROOF DRAIN REQD REQUIRED RL ROOF LEADER SH SHEET TEMP TEMPERATURE TYP TYPICAL V SANITARY VENT	FTFEETGPMGALLONS PER MINUTEGVGATE VALVEHBHOSE BIBBHWHOT WATERININCH, INCHESMAXMAXIMUMMINMINUMUMRDROOF DRAINREQDREQUIREDRLROOF LEADERSHSHEETTEMPTEMPERATURETYPTYPICALVSANITARY VENTVTRVENT THRU ROOFWSANITARY WASTE	7	ABVABOVEBTUBRITISH THERMAL UNITBELBELOWBETBETWEENCLGCEILINGCOCLEANOUTCONCCONCRETECONNCONNECT, CONNECTIONCWCOLD WATERCONTCONTINUEDDNDOWNEAEACHEWCELECTRIC WATER COOLERFDEGREES FARENHEITFDFLOOR DRAINFLFLOOR
W SANITARY WASTE		Έ	GPMGALLONS PER MINUTEGVGATE VALVEHBHOSE BIBBHWHOT WATERININCH, INCHESMAXMAXIMUMMINMINUMUMRDROOF DRAINREQDREQUIREDRLROOF LEADERSHSHEETTEMPTEMPERATURETYPTYPICALVSANITARY VENTVTRVENT THRU ROOFWSANITARY WASTE

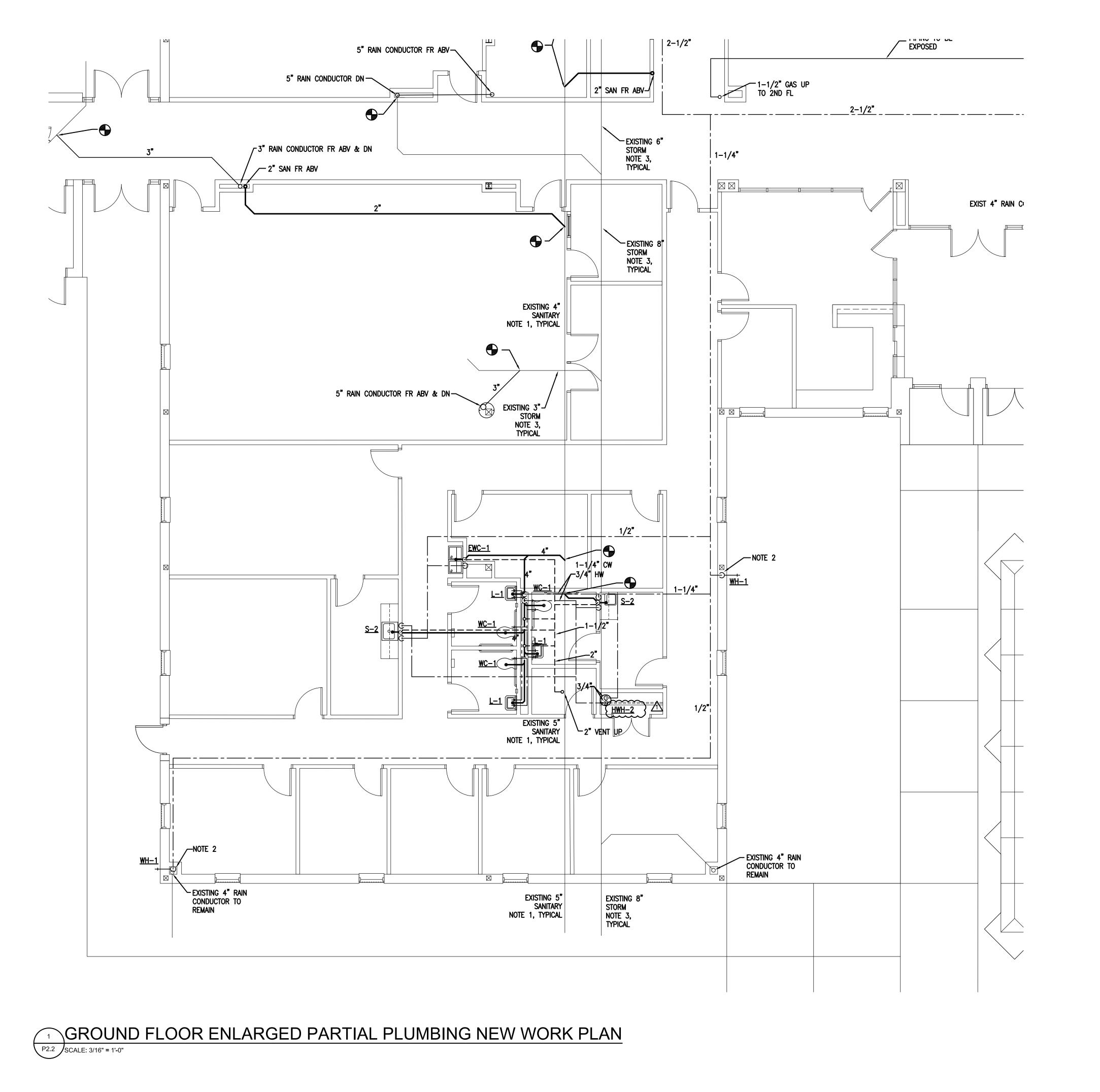


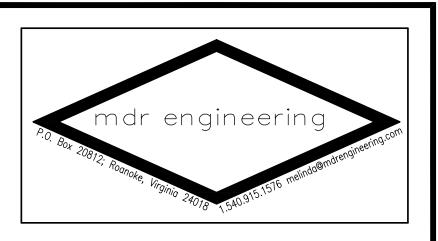












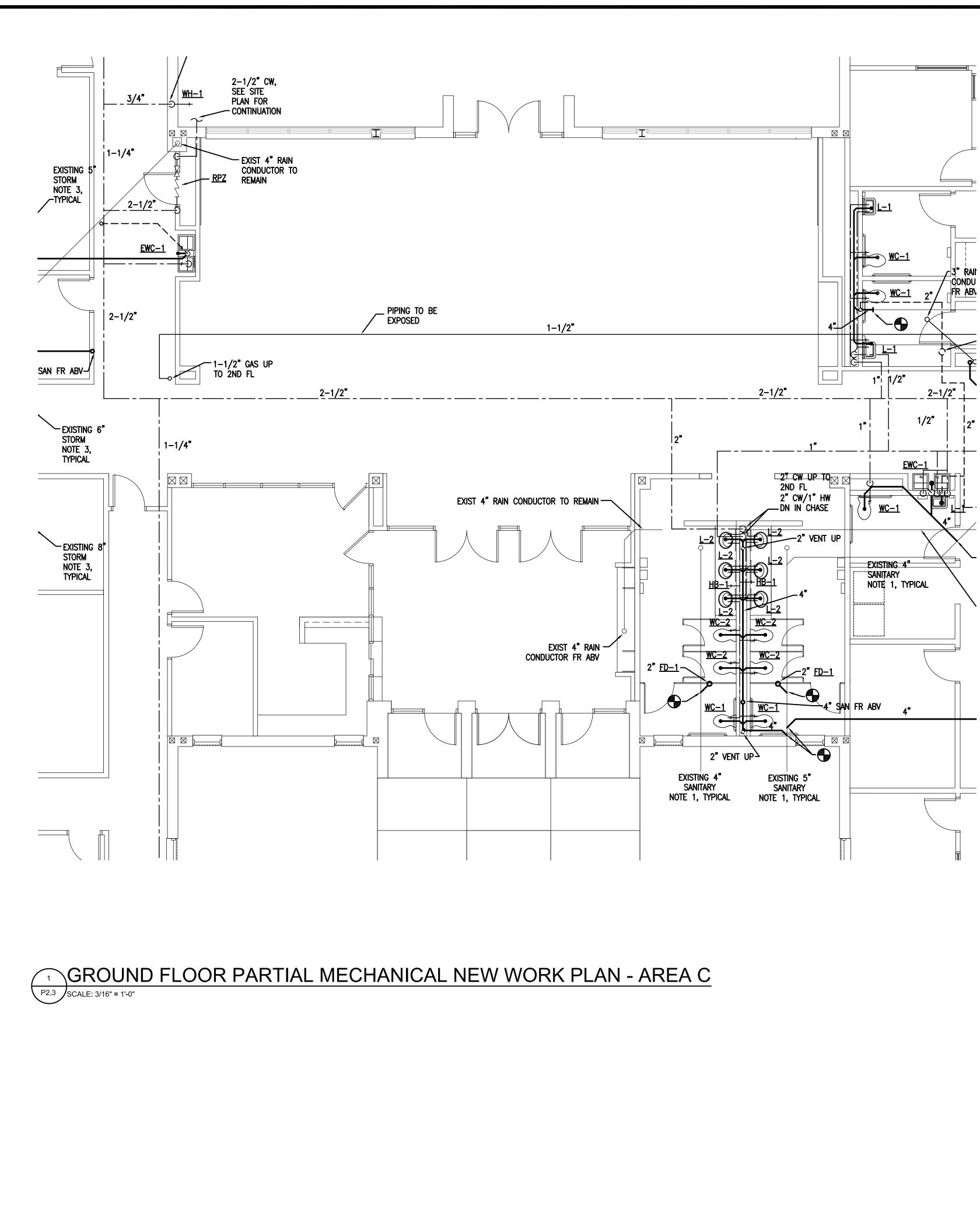
<u>NOTES</u>: 1. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SANITARY PIPING AND ADJUST TIE-IN LOCATIONS AS REQUIRED. 2. CONNECT TO EXISTING PIPING IN WALL TO SERVE NEW WALL HYDRANT. 3. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING STORM PIPING AND ADJUST TIE-IN LOCATIONS AS REQUIRED.

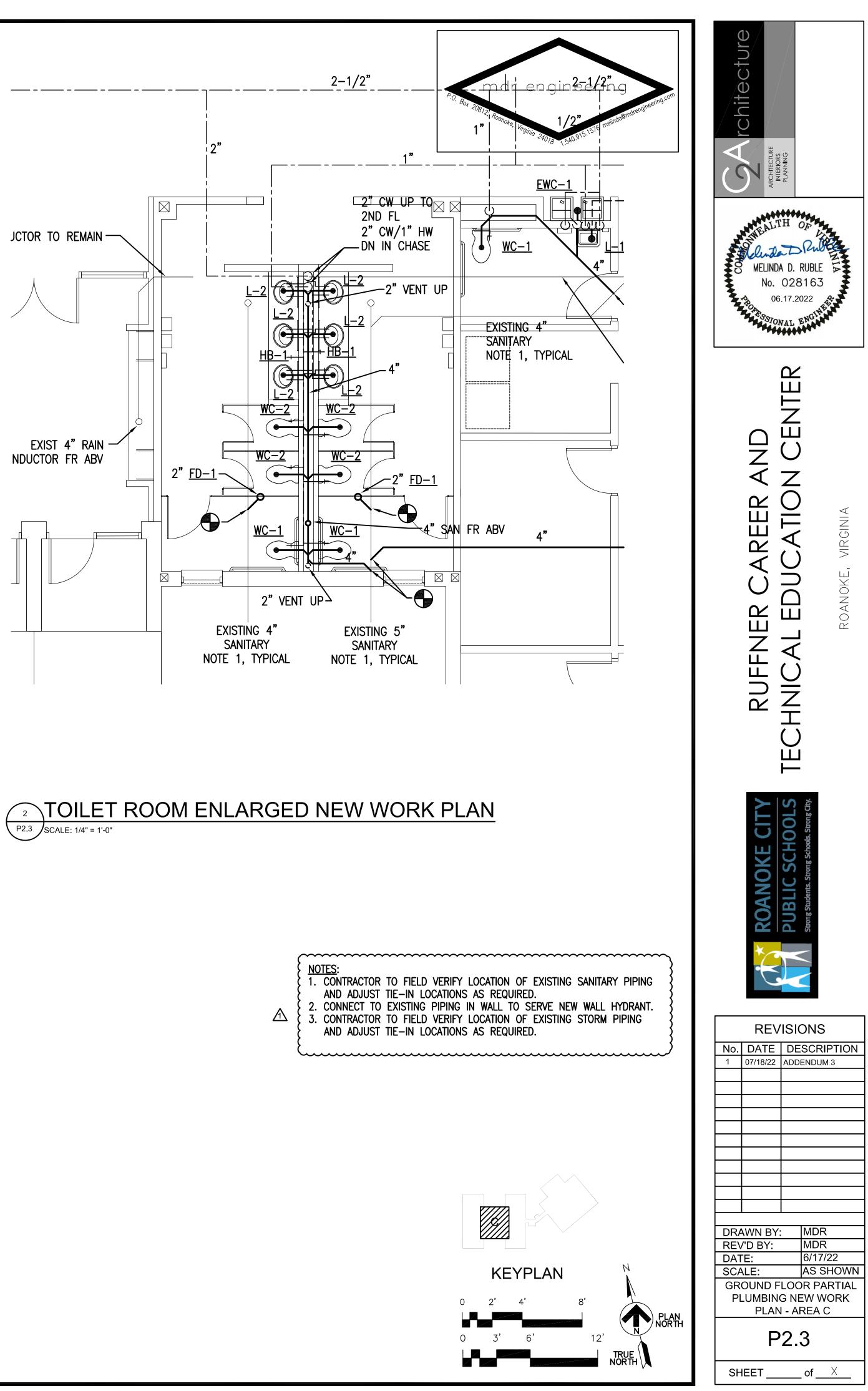
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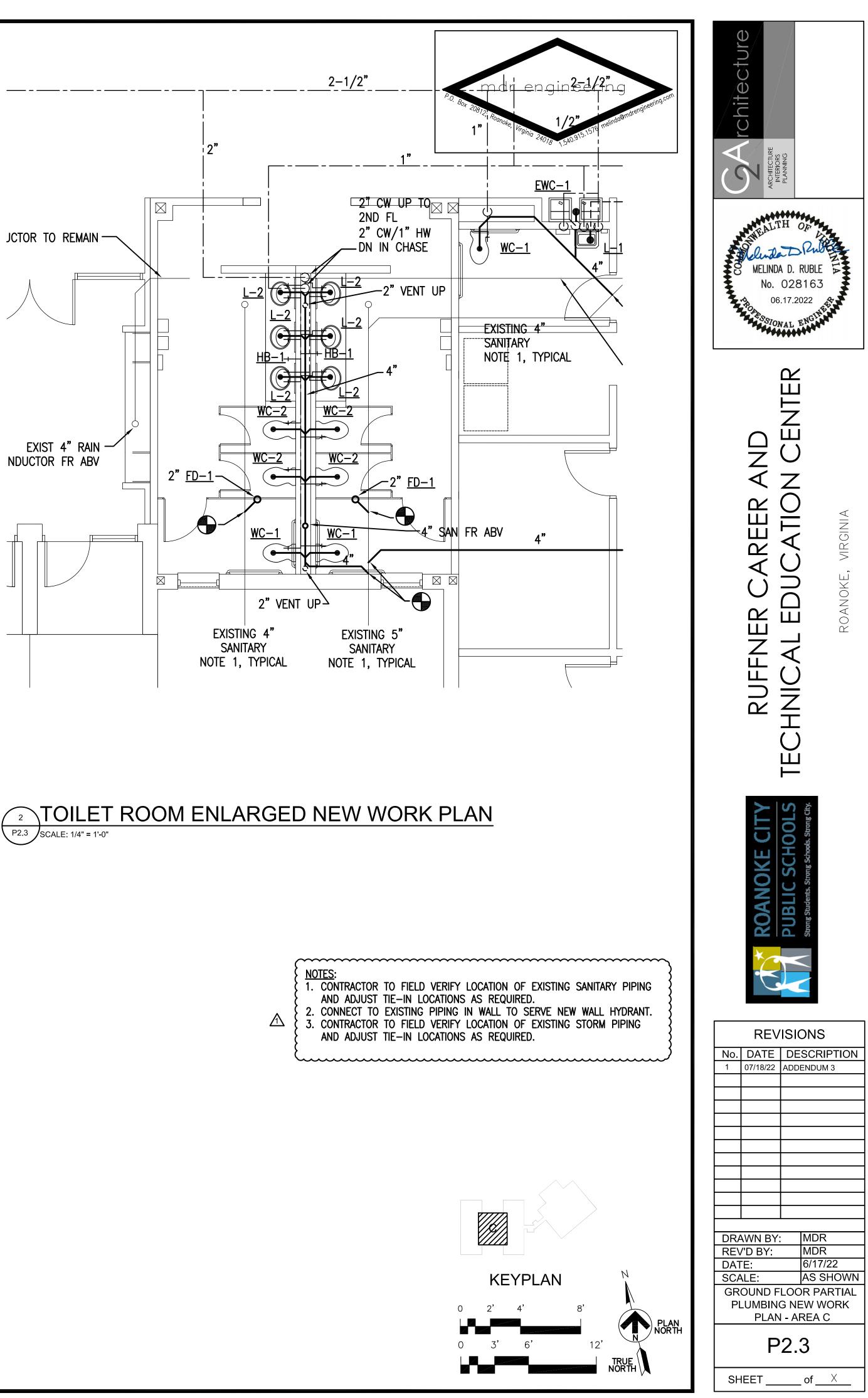


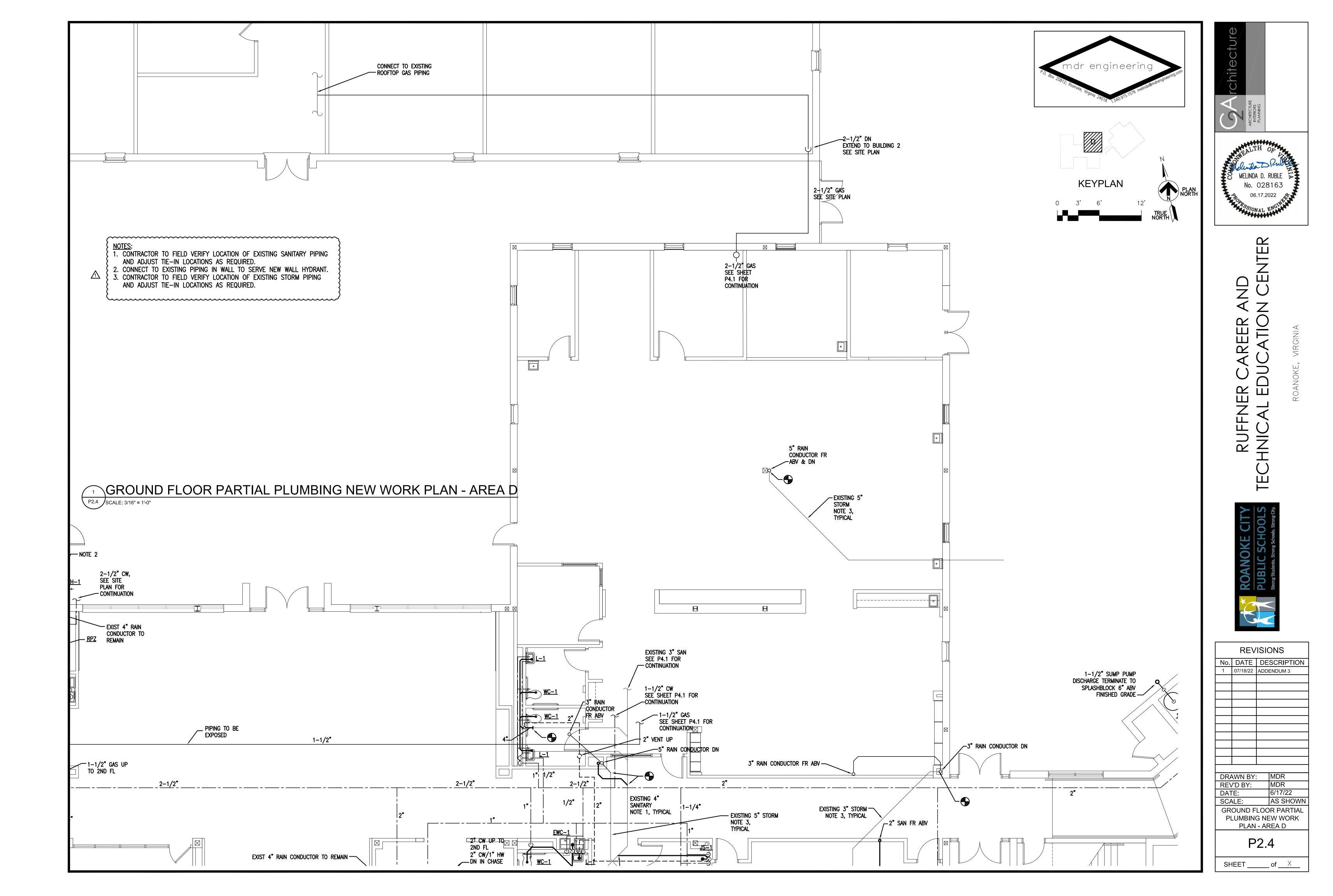
SHEET \_\_\_\_\_ of  $\_$   $\times$ 

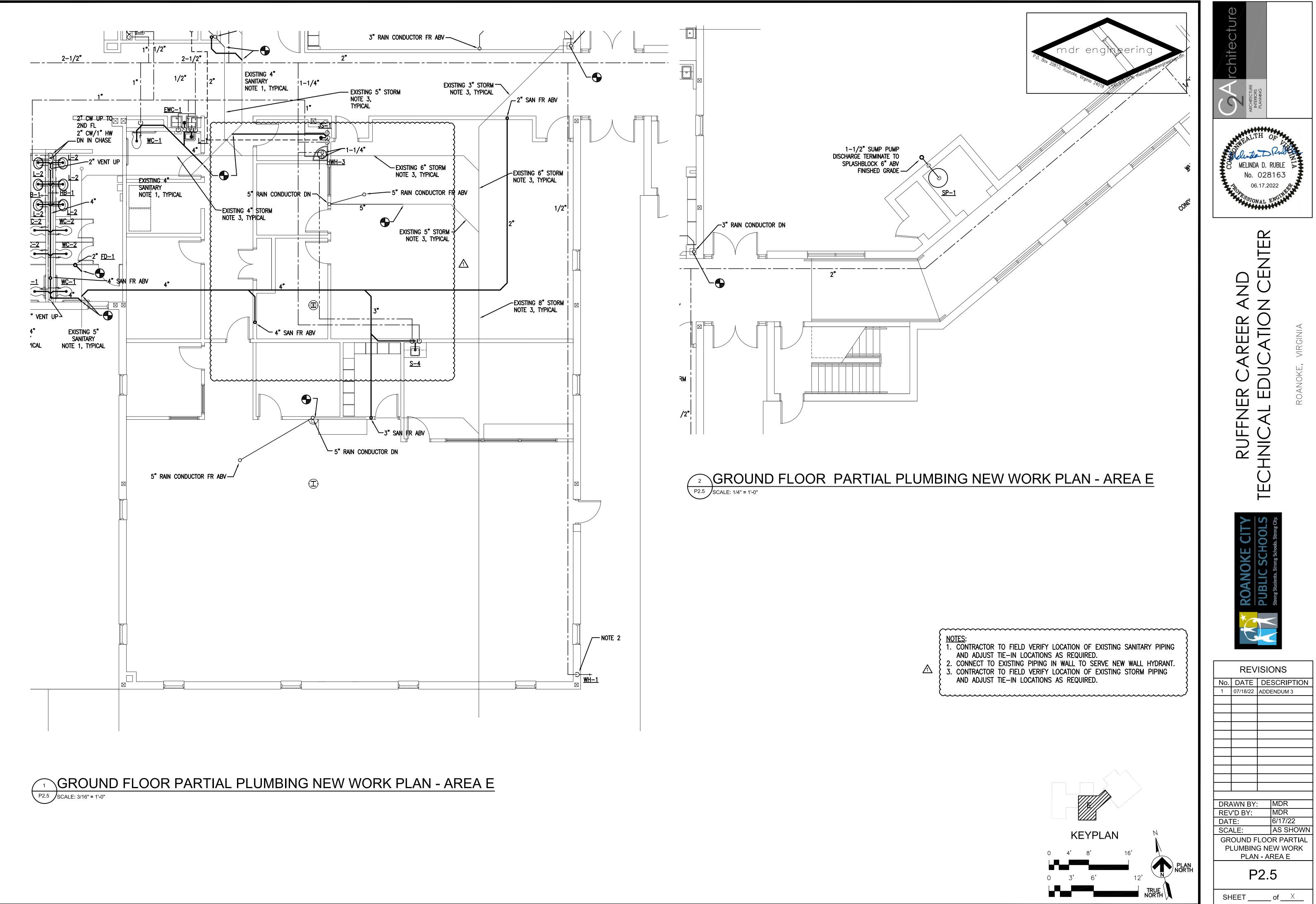
KEYPLAN         PI           0 3' 6' 12'         TRUE NORTH	LAN DRTH

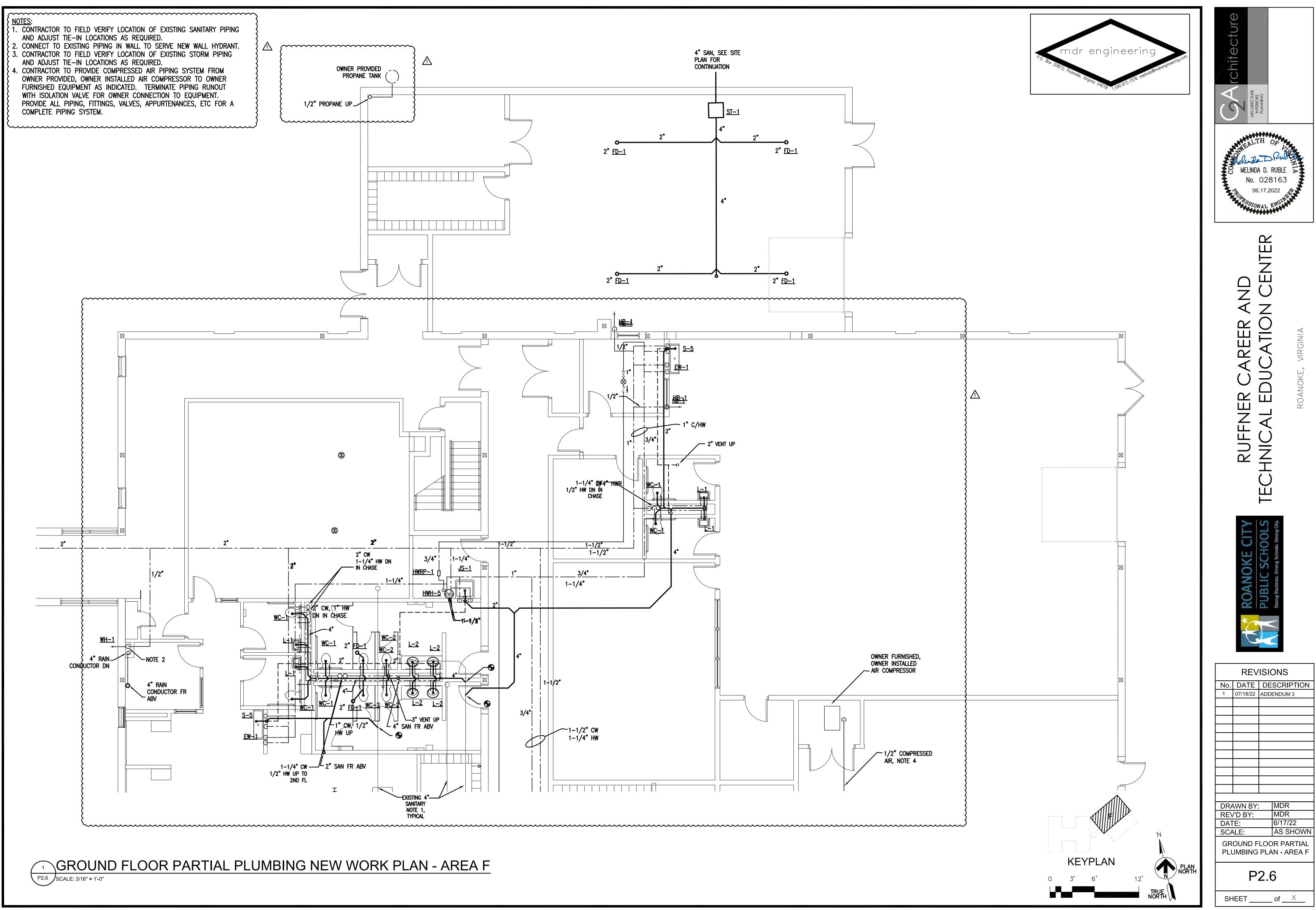


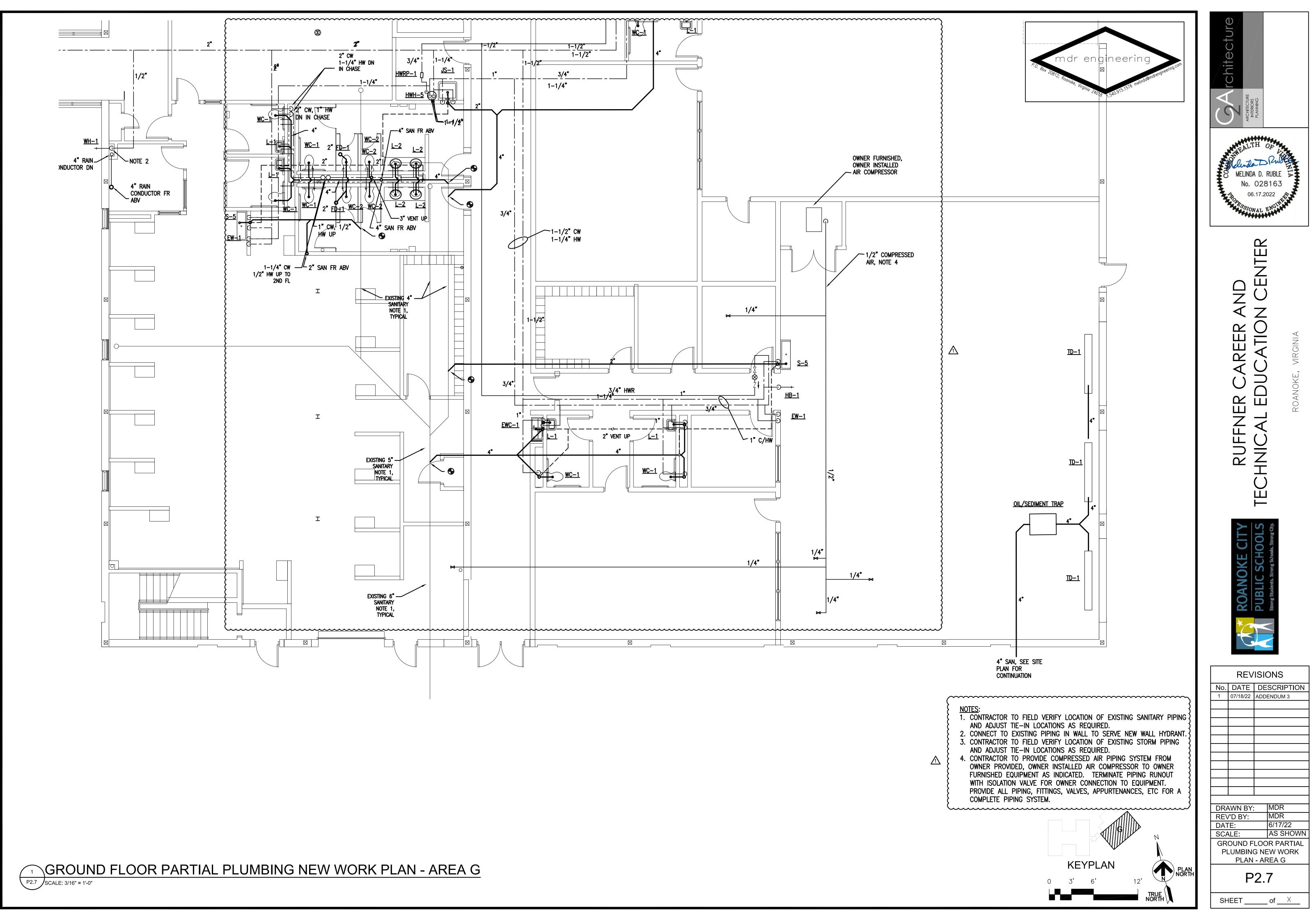


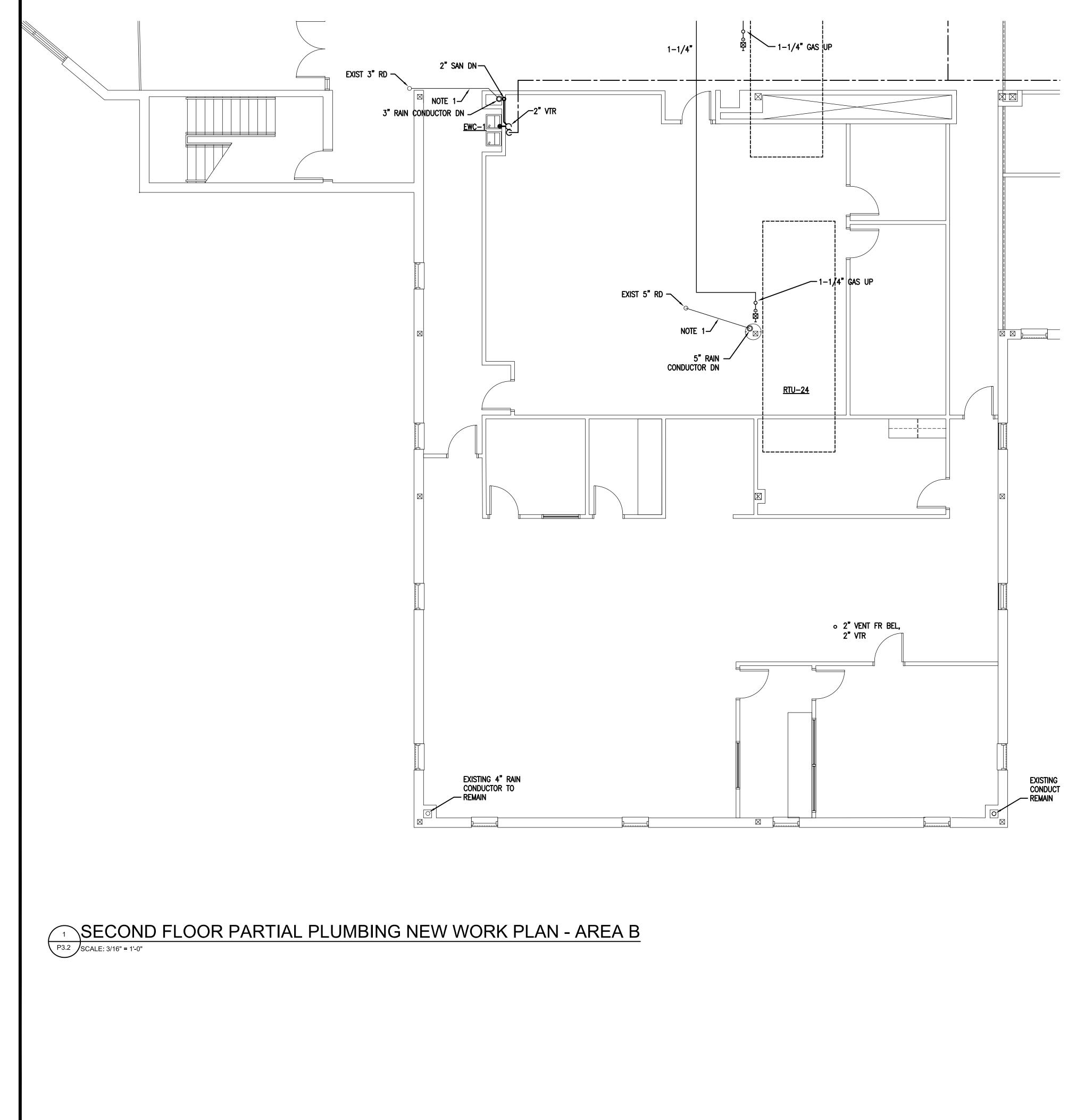


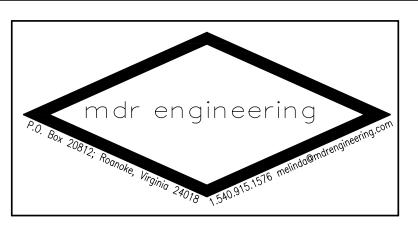








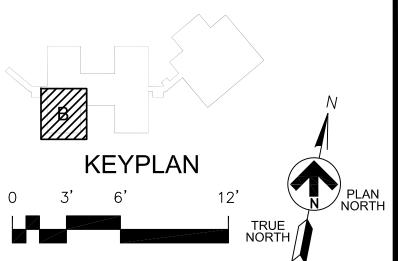


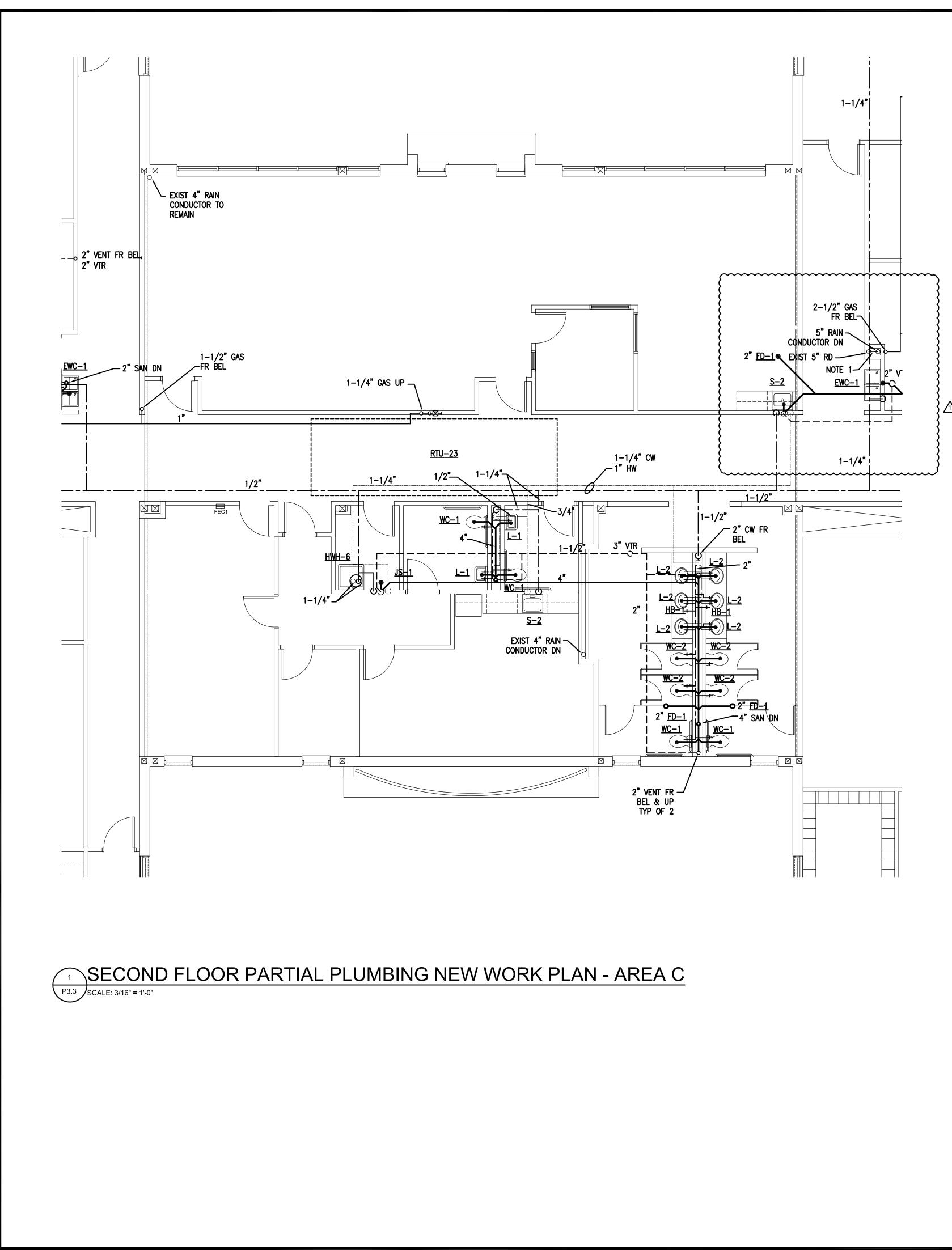


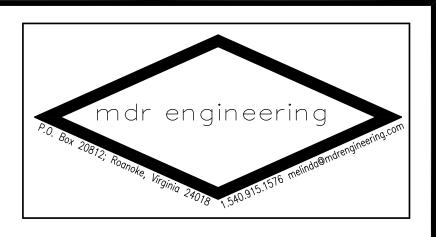
<u>NOTES</u>: 1. EXTEND NEW RAIN CONDUCTOR FROM EXISTING ROOF DRAIN TO NEW RISER. RAIN CONDUCTOR TO BE SIZE OF ROOF DRAIN.

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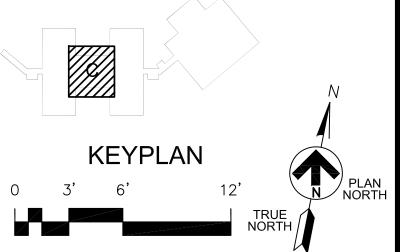


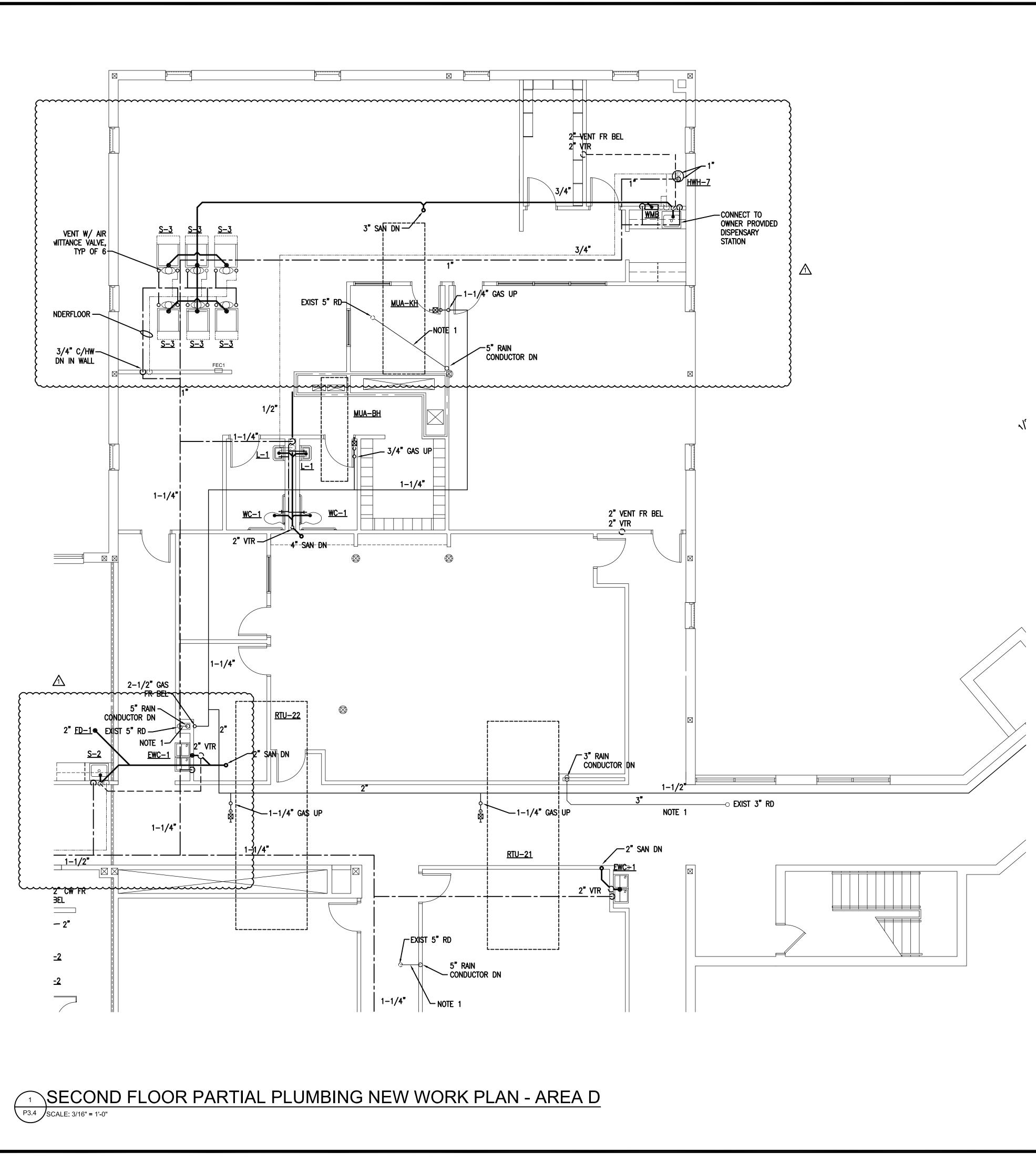
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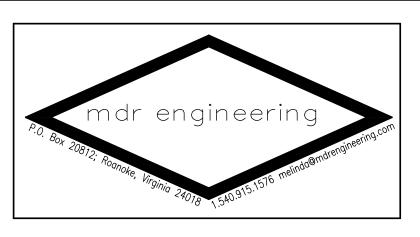
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P3.3





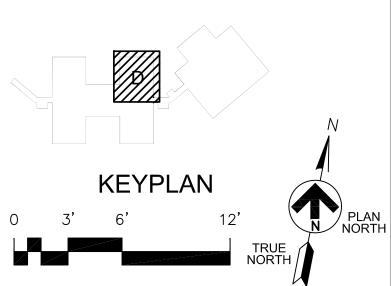


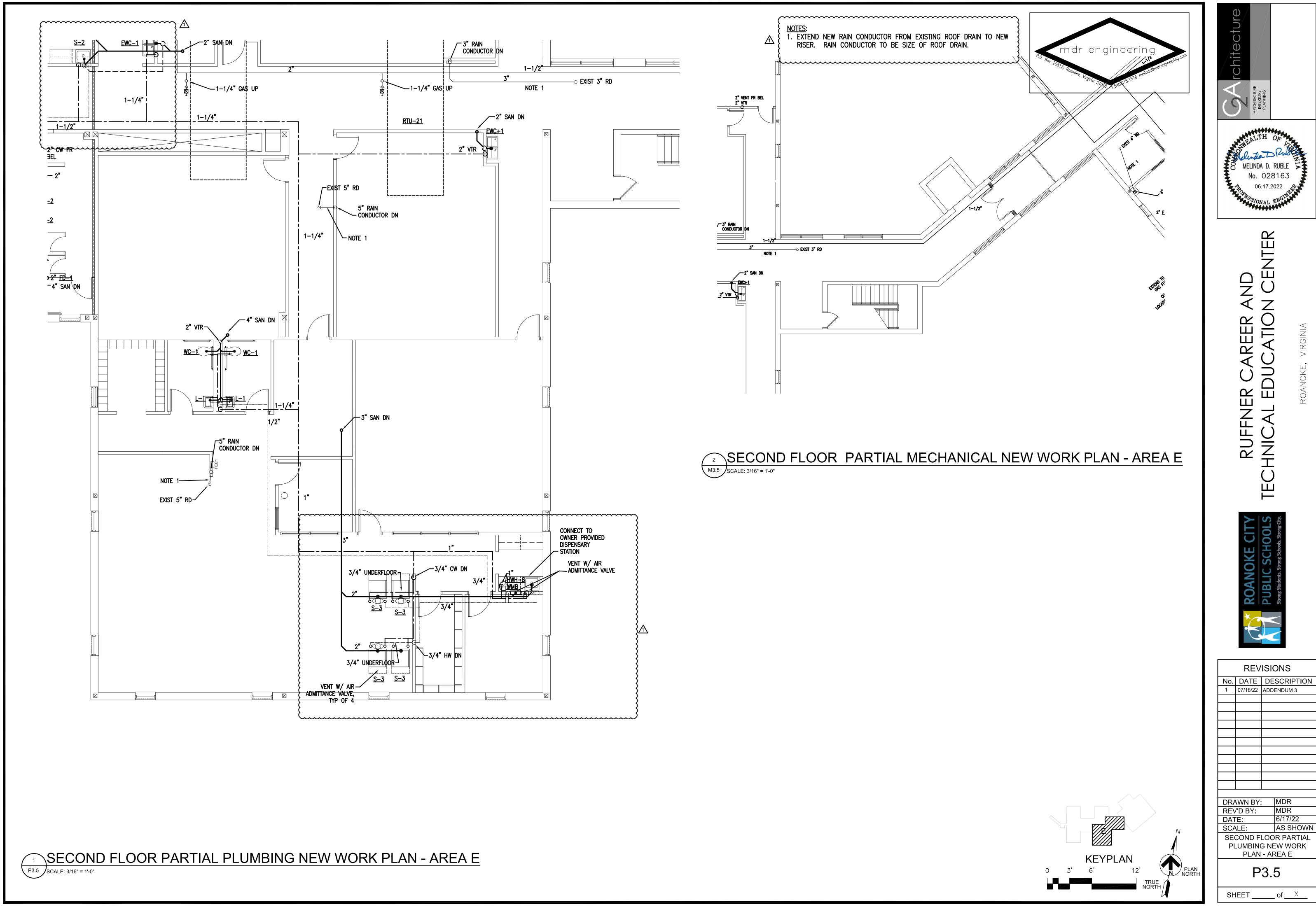
NOTES: 1. EXTEND NEW RAIN CONDUCTOR FROM EXISTING ROOF DRAIN TO NEW RISER. RAIN CONDUCTOR TO BE SIZE OF ROOF DRAIN.

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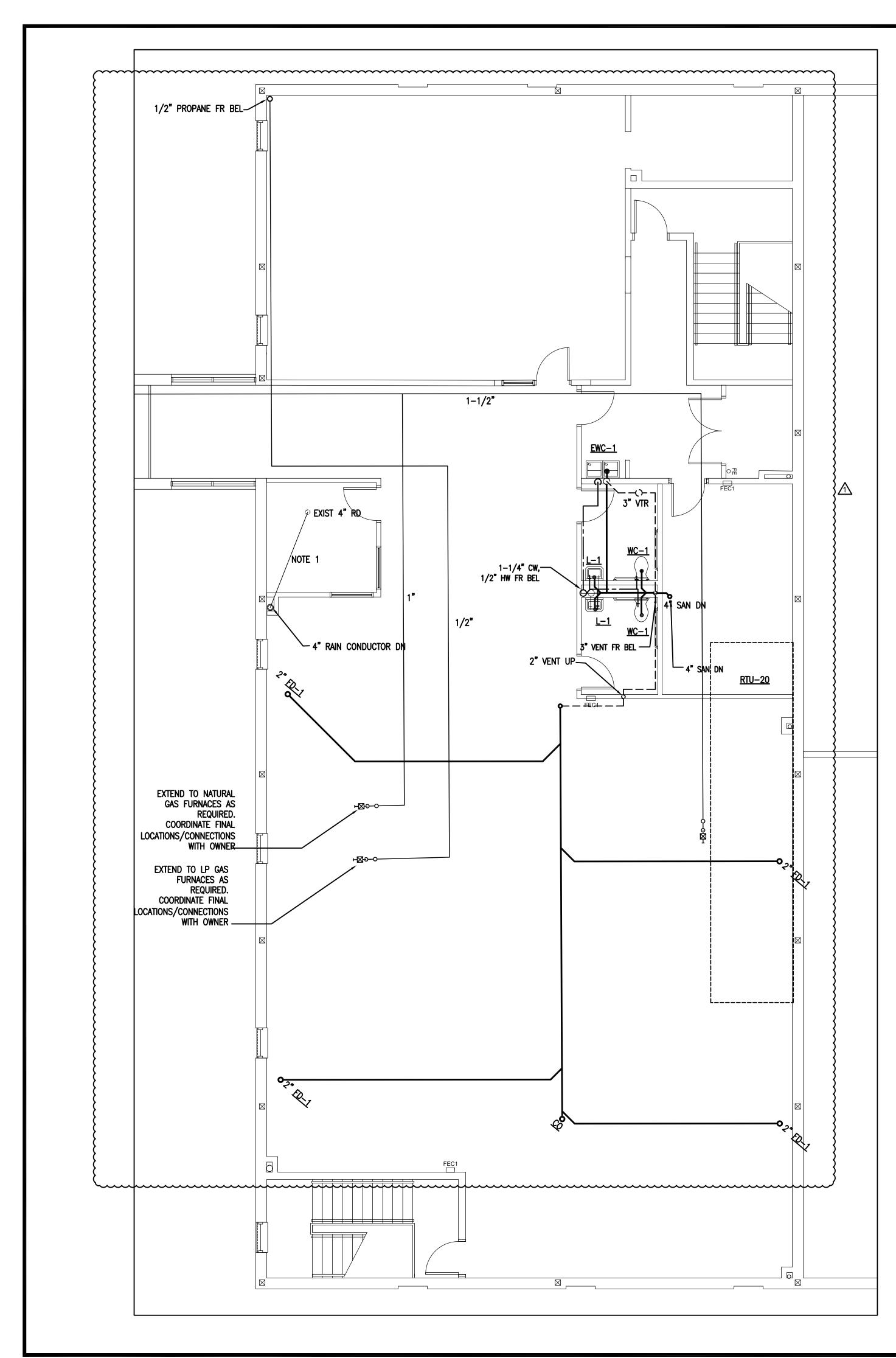
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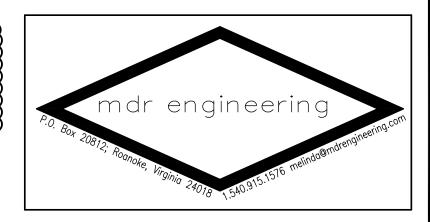
MDR

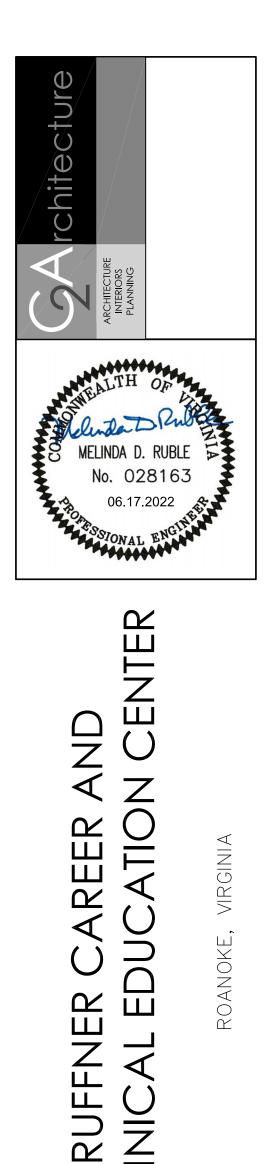


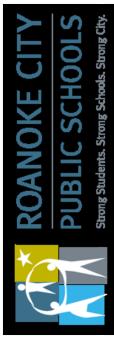
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<u>NOTES</u>: 1. EXTEND NEW RAIN CONDUCTOR FROM EXISTING ROOF DRAIN TO NEW RISER. RAIN CONDUCTOR TO BE SIZE OF ROOF DRAIN.

# 1 SECOND FLOOR PARTIAL NEW WORK PLAN - AREA F P3.6 SCALE: 3/16" = 1'-0"





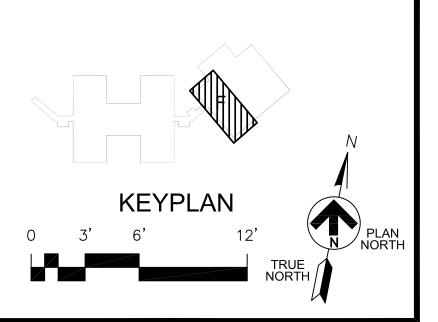


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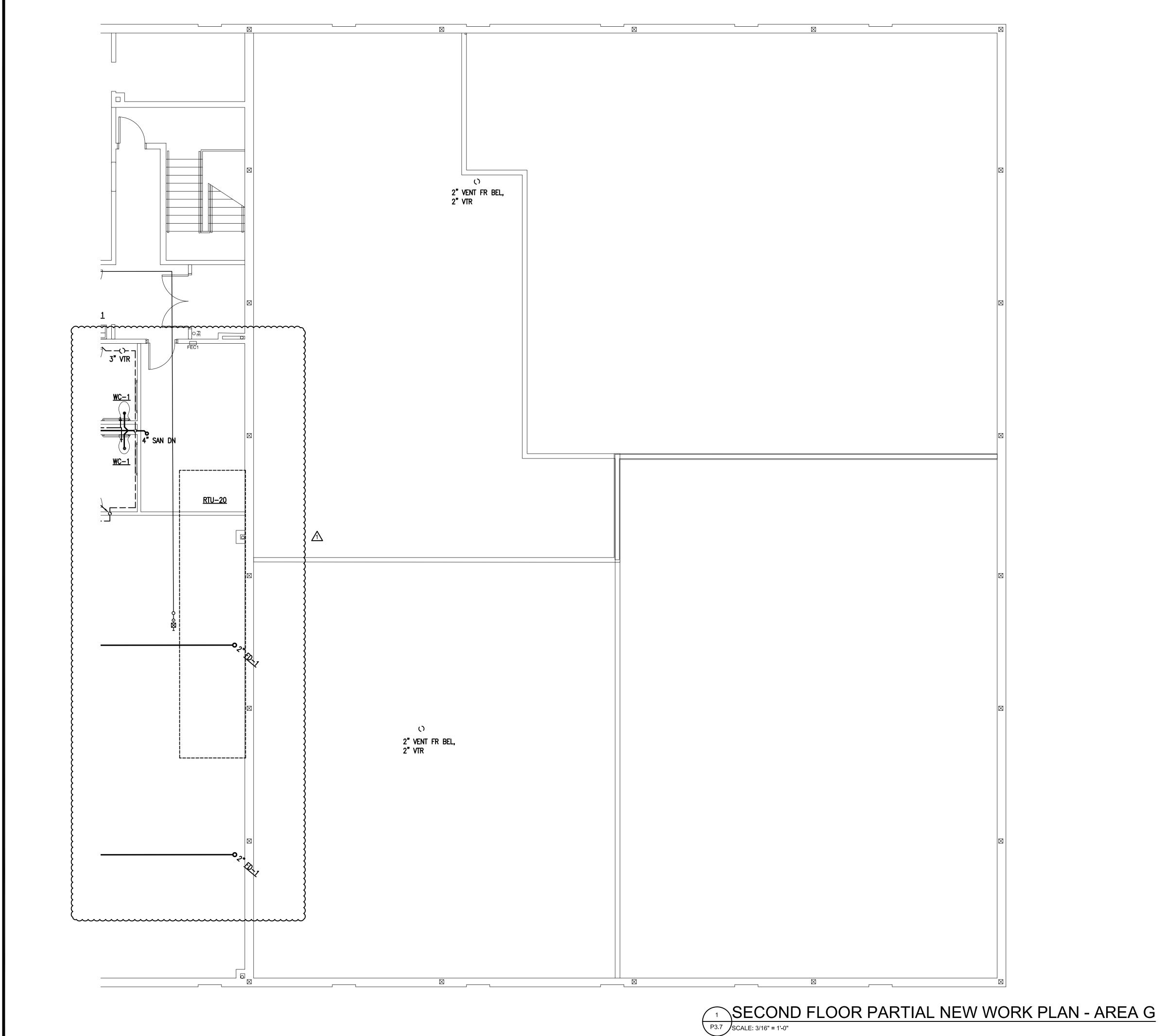
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REVISIONS								
No.	DATE	DE	SCRIPTION					
1	07/18/22	ADD	ENDUM 3					
	AWN BY		MDR					
	/'D BY:		MDR					
DAT	6/17/22							
SC/	SCALE: AS SHOWN							
SECOND FLOOR PARTIAL								
PLUMBING NEW WORK								
PLAN - AREA F								
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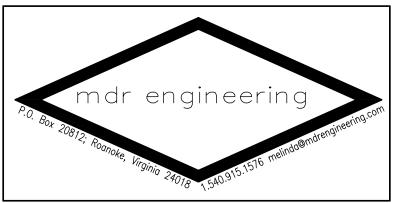




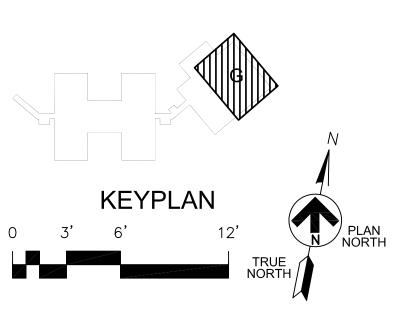


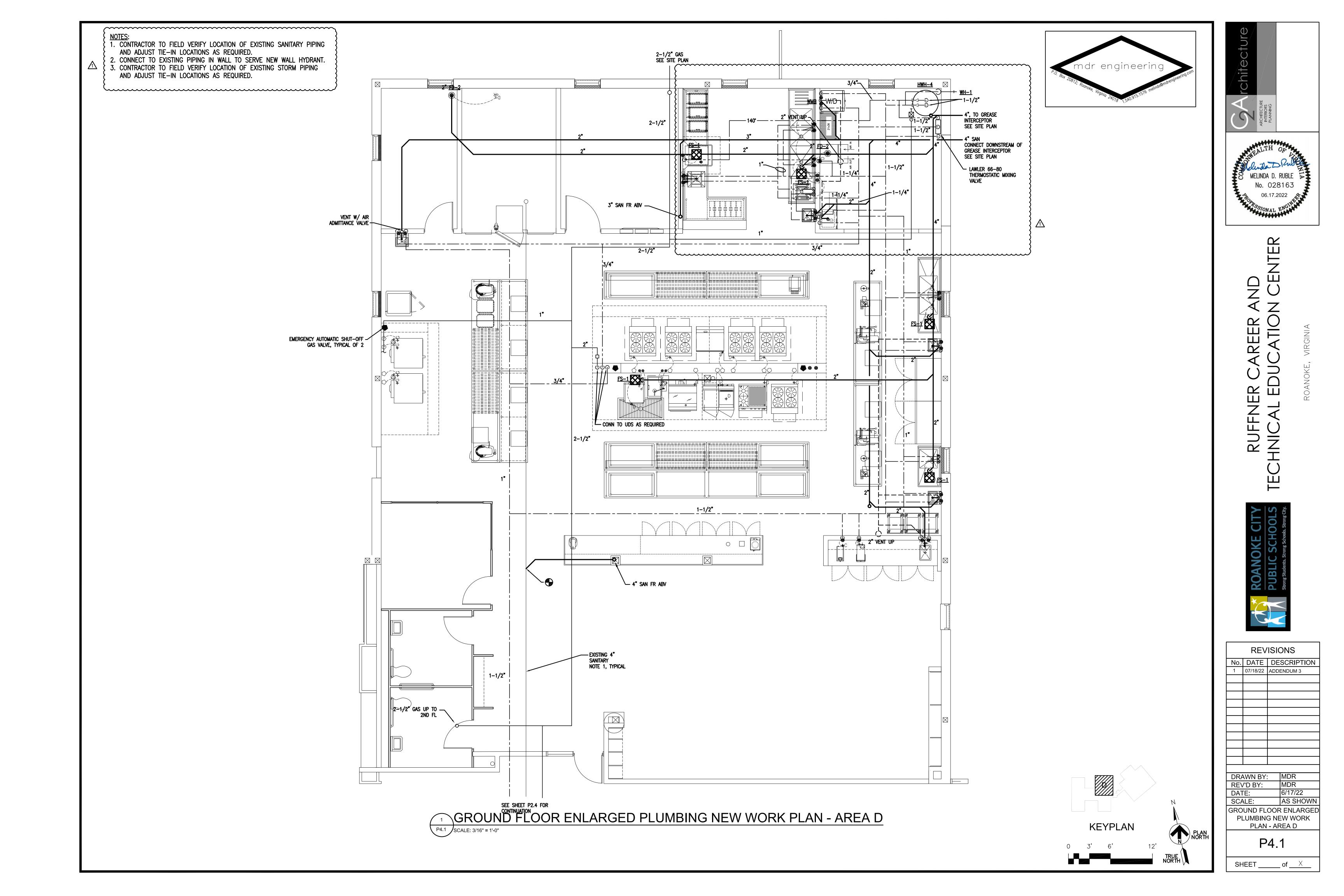


P3.7





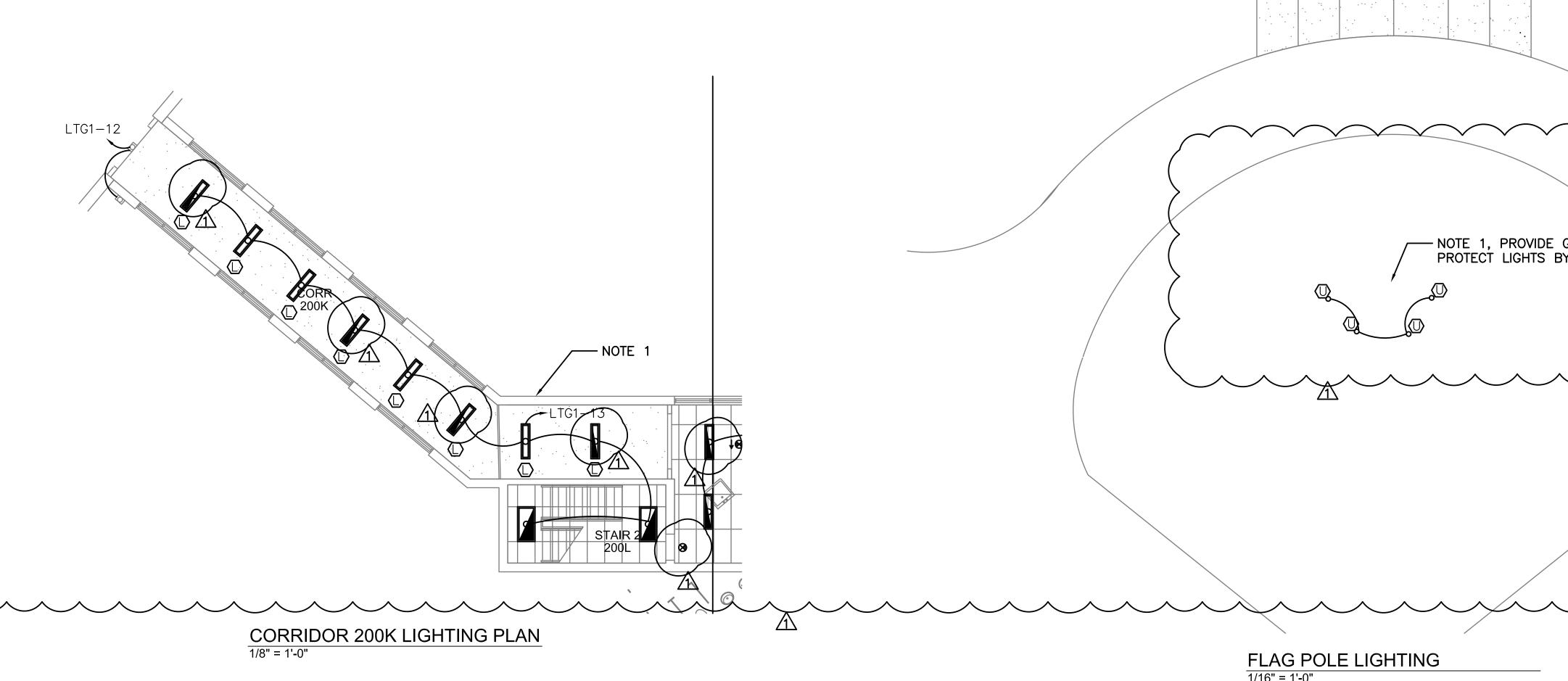




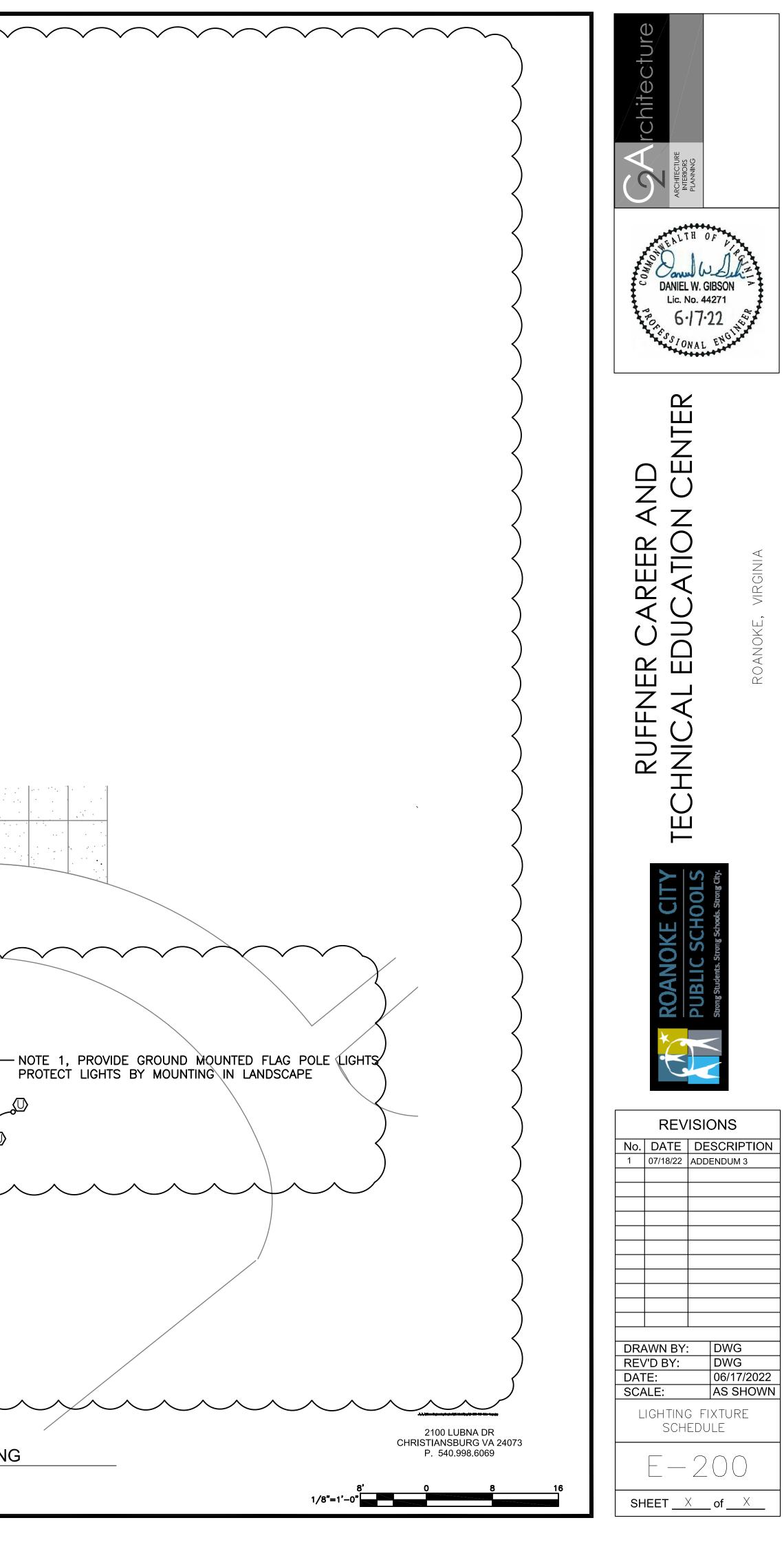
	ELECTRICA	
	PANELBOARD, 208Y/120-VOLT, 3-PHASE, 4-WIRE, MOUNTING HEIGHT = 6'-0" TO TOP. SEE PANELBOARD SCHEDULES.	0
	DISCONNECT SWITCH, EXTERNALLY OPERATED, 250V, 3-POLE UNLESS OTHERWISE NOTED. NOTATION, WHEN USED, INDICATES NUMBER OF POLES AND AMPERAGE CAPACITY. 'NF' INDICATES NON-FUSED. COORDINATE WITH MECHANICAL CONTRACTOR FOR DISCONNECTS TO BE PROVIDED WITH EQUIPMENT.	
	BRANCH CIRCUIT HOME RUN TO PANELBOARD. NOTATION INDICATES PANELBOARD & BRANCH CIRCUIT CONNECTION.	
J	JUNCTION BOX. SEE NOTATION AND PANEL SCHEDULE FOR CONNECTED EQUIPMENT.	$\bigcirc$
HP 1	MECHANICAL EQUIPMENT TAG. SEE MECHANICAL DRAWINGS FOR ADDITIONAL UNIT INFORMATION AND EXACT LOCATION.	К
$\bigoplus$	DUPLEX WALL RECEPTACLE, MOUNTING HEIGHT = 1'-6". 'GF' SUBSCRIPT INDICATES GROUND FAULT, 'WP' INDICATES GFI WEATHERPROOF, 'EWC' INDICATES GFI BEHIND ELECTRIC WATER COOLER, '*' INDICATES MOUNTED HEIGHT = 8" ABOVE COUNTER, 'USB' INDICATES DUPLEX WITH USB PORTS, 'REF' INDICATES REFRIGERATOR RECEPTACLE MOUNTED 36" AFF.	HX N
$\bigoplus$	QUAD-PLEX WALL RECEPTACLE WITH SURGE PROTECTION, MOUNTING HEIGHT = 1'-6". SEE DUPLEX OUTLET FOR SIMILAR SUBSCRIPT DESIGNATIONS.	0
$\bigoplus$	SPECIAL PURPOSE RECEPTACLE. COORDINATE WITH EQUIPMENT PROVIDER FOR CORRECT CORD AND PLUG COMBINATION.	S
$\supset$	DATA SYSTEM OUTLET, MOUNTING HEIGHT = 1'-6" UNLESS INDICATED OTHERWISE. PROVIDE 1" CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WITH 2 DATA DROPS WHERE MOUNTED BESIDE COUNTER RECEPTACLE, MOUNT SAME HEIGHT AS RECEPTACLE.	Á
WAP	CEILING MOUNTED POE WIRELESS ACCESS POINT, PROVIDE 2-CAT-6A CABLE BACK TO NEAREST NETWORK CONSOLIDATION POINT. COORDINATE EXACT LOCATIONS WITH OWNER. ACCESS POINTS ARE CFCI.	P
		(s ⊢(s
HTD	WALL MOUNTED INTERACTIVE DISPLAY BOARD LOCATION. 2 CAT 6A CABLES BACK TO IDF AND PROVIDE QUAD RECEPTACLE AND TYPE 'ID' DATA OUTLET MOUNTED AT 48" AFF TO CENTER.	HC
ΗT	WALL MOUNTED TEACH STATION, 2 CAT 6A CABLES BACK TO IDF AND PROVIDE QUAD RECEPTACLE AND TYPE 'ID' DATA OUTLET	
		Μ
		K
		A
		CF
		CF
		РТ
	SPECIFICATIONS	
	DRESS SYSTEM AND CLOCKS SHALL BE VALCOM, NO EXCEPTIONS.	
COMPONE 3. PROVIDE	ALL ELECTRICAL CONDUITS AND WIRING ASSOCIATED WITH ELECTRONIC ACCESS.	
4. PROVIDE	NEW CAMERAS INDICATED AND A LICENSE WITH EACH CAMERA.	

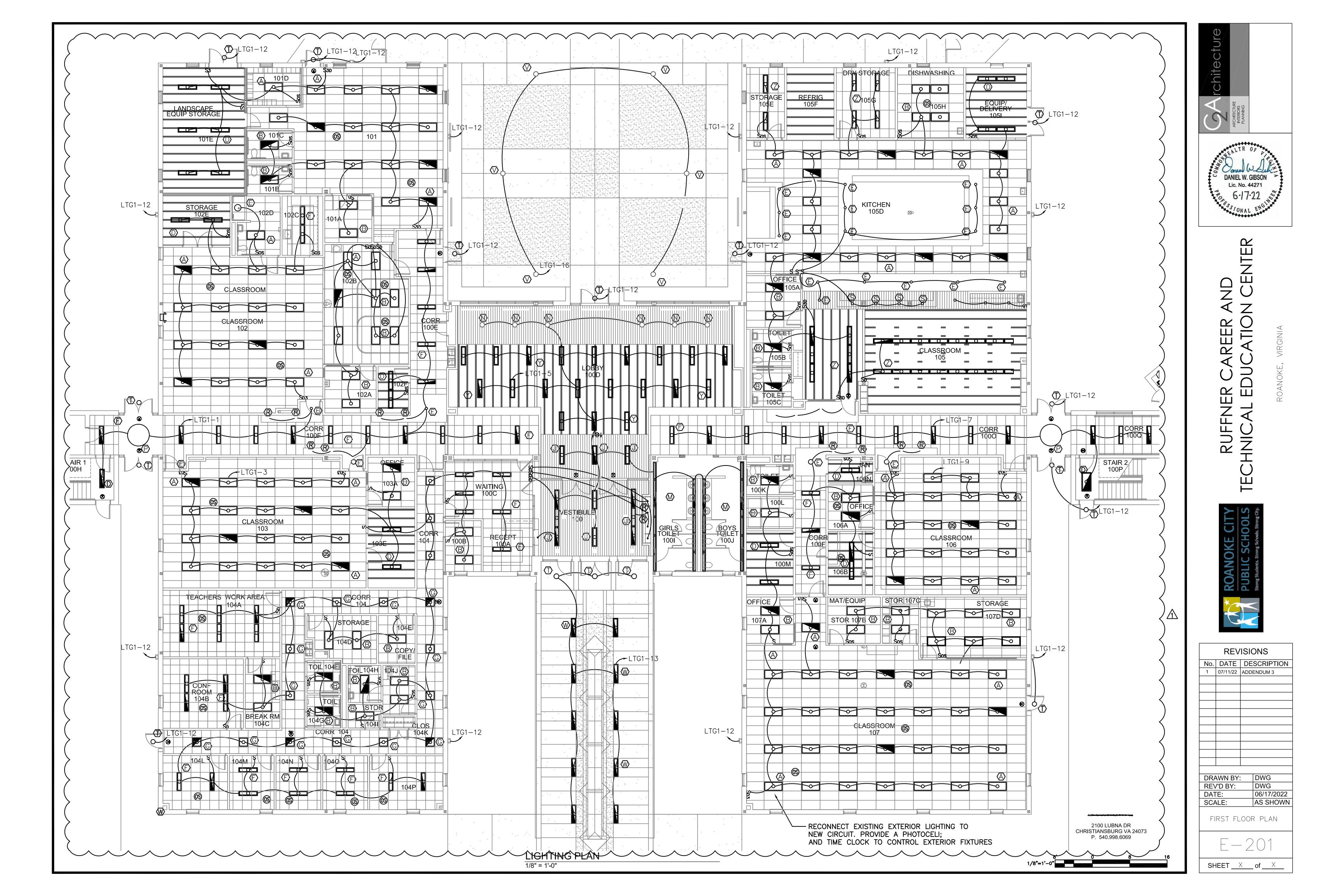
	GENERAL NOTES
D LIGHT. CEILING, SURFACE, GRID OR PENDANT MOUNTED. SEE FIXTURE SCHEDULE FOR TYPE. ICH INDICATES INTEGRAL EMERGENCY BATTERY BALLAST.	<ul> <li>1. MOUNTING HEIGHT OF LIGHTING FIXTURES IS TO BOTTOM OF FIXTURE AND AWAY FROM FINISHED FLOOR OR GRADE.</li> <li>2. MOUNT OUTLET BOXES SO THAT NONE OCCUR BACK TO BACK IN WALLS.</li> </ul>
INEAR STRIP UTILITY LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR TYPE.	3. MECHANICAL EQUIPMENT IS SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND PIPING, SEE MECHANICAL DRAWINGS.
FERIOR WALL MOUNTED FLOOD LIGHT, SEE FIXTURE SCHEDULE FOR TYPE.	4. FOR 120 VOLT, 20 AMP BRANCH CIRCUITS USE 12 AWG UP TO 60 FEET, 10 AWG FOR 61-95 FEET, AND 8 AWG FOR CIRCUITS LONGER THAN 96 FEET. WHETHER INDICATED IN PANEL SCHEDULES OR NOT. CONDUCTORS SHALL BE SAME SIZE FOR ENTIRE LENGTH OF RUN.
FERIOR CANOPY SURFACE MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR TYPE.	5. REVISE PANELBOARD SCHEDULES ON AS-BUILT-DRAWING AND PANEL DIRECTORIES TO REFLECT FINAL INSTALLATION CONDITIONS.
OUND BOX MOUNTED, AIMABLE FLAGPOLE LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR PE.	6. SEAL PENETRATIONS THROUGH FLOORS OR FIRE WALLS TO MAINTAIN THE INTEGRITY OF THE FIRE AND ACOUSTIC RATINGS OF THE WALLS AND FLOORS.
T SIGN LIGHTING FIXTURE, SURFACE WALL MOUNTED, ECTIONAL ARROWS AS INDICATED, TYPE 'X'.	7. LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH REMOVAL OF CEILING TILES, OR WITH ACCESS TO EQUIPMENT WHICH REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.
T SIGN LIGHTING FIXTURE, SURFACE CEILING MOUNTED, ECTIONAL ARROWS AS INDICATED, TYPE 'X'.	8. PROVIDE NAMEPLATES ON THE EXTERIOR OF ALL ELECTRICAL PANELS, DISCONNECTS AND ENCLOSURES WITH THE DEVICE ID, RATING, POWER SOURCE AND INSTALLATION DATE AND BY WHICH SWITCH OR STARTER.
	9. FIRE ALARM SYSTEM TO BE INSTALLED COMPLETE AND TO ALL APPLICABLE CODES.
AL TECHNOLOGY, OCCUPANCY SENSOR FOR LIGHTING CONTROL.	10. LIGHT FIXTURE TYPE IS SHOWN ONLY ONCE AS TYPICAL FOR THE ENTIRE ROOM UNLESS SPECIFICALLY INDICATED OTHERWISE.
GLE-POLE SWITCH, MOUNTING HEIGHT = 4'-0" TO TOP. VER CASE SUBSCRIPT, WHEN USED, INDICATES FIXTURES CONTROLLED. SUBSCRIPT INDICATES THREE-WAY SWITCH, '4' INDICATES FOUR-WAY SWITCH, 'M' INDICATES TION CONTROLLED, 'D' INDICATES DIMMER SWITCH, 'WP' INDICATES WEATHERPROOF.	11. UNLESS INDICATED OTHERWISE, SIZE CONDUITS IN ACCORDANCE WITH NFPA 70.         12. COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE ALL WORKING CLEARANCE AND DEDICATED WORKING         SPACE OF PANELBOARDS.
HTING FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.	13. ALL UNDERGROUND CONDUITS NEED PULL CORDS / ROPES SUITABLE FOR WIRE TO BE INSTALLED.
THING FIATORE TIPE. SEE LIGHTING FIATORE SCHEDULE.	14. PROVIDE A LABEL ON ALL RECEPTACLE FACE PLATES INDICATING WHICH PANELBOARD AND CIRCUIT FEEDS THAT RECEPTACLE.
LIC ADDRESS SYSTEM HEADEND, LOCATED IN FRONT OFFICE AREA.	15. COORDINATE WITH ACCESS CONTROL SYSTEM AND PROVIDE ALL NECESSARY CONNECTIONS FOR CONDULT AND WIRE.
ING GRID 2X2 DROP-IN TILE PUBLIC ADDRESS SPEAKER, CONNECTED TO PA HEADEND.	16. GROUNDING CONDUCTORS ARE NOT INDICATED IN BRANCH CIRCUIT RACEWAYS. PROVIDE GROUND CONDUCTORS AS
L MOUNTED PUBLIC ADDRESS SPEAKER, CONNECTED TO PA HEADEND.	17. ALL LIGHT FIXTURE MANUFACTURES ARE LISTED TO ESTABLISH STANDARD REQUIREMENTS FOR PERFORMANCE, MATERIAL AND APPEARANCE. PROVIDE SPECIFIED FIXTURE OR EQUAL. COORDINATE ALL FIXTURE FINISHES WITH ARCHITECT.
LL MOUNTED CLOCK, CONNECTED TO PA / MASTER CLOCK HEADEND. ACED DIGITAL CLOCK IN ALL CORRIDORS,	18. CEILING GRID MOUNTED DEVICES ARE TO BE CENTERED WITHIN CEILING GRID TILES. INCLUDING, BUT NOT LIMITED TO, OCCUPANCY SENSORS, ACCESS POINTS, AND FIRE ALARM DEVICES.
' SUBSCRIPT WHEN USED INDICATES WIREGUARD.	19. OCCUPANCY SENSORS SHOULD CONTROL ALL LIGHTING IN ROOMS, UNLESS INDICATED OTHERWISE.
	20. PROVIDE PLASTIC BUSHING ON THE END OF ALL CONDUIT.
E SECURITY CAMERA, PROVIDE CAT-6A CABLE BACK TO NEAREST IDF OR MDF. ORDINATE EXACT LOCATIONS WITH OWNER.	21. NO SHARING OF NEUTRAL CONDUCTORS. 24. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE POWER TO MOTORIZED DAMPERS WHERE REQUIRED.
CURITY SYSTEM MOTION SENSOR.	USE #12 WIRE FROM SPARE 20 AMP BREAKER IN NEAREST NORMAL POWER ELECTRICAL PANEL.
CURITY SYSTEM ELECTRONIC KEYPAD.	25. COORDINATE WITH UTILITY FOR MAXIMUM AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE. PROVIDE RATING TO ENGINEER FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT. FIELD MARK SERVICE ENTRANCE EQUIPMENT WITH RATING RECEIVED FROM UTILITY AND DATE CALCULATED.
CESS CONTROL AI PHONE / CAMERA ENTRY SYSTEM.	26. PROVIDE A NEW PHONE SYSTEM WITH NEW LAYOUT.
CESS CONTROL CARD READER.	27. SURFACE RACEWAY IS TO BE USED FOR NEW DEVICES BEING INSTALL ON EXISTING WALLS. DUAL CHANNEL WIREMOLD 4000 RACEWAY IS TO BE USED WHERE BOTH NEW POWER AND DATA IS REQUIRED. SINGLE CHANNEL WIREMOLD RACEWAY IS TO BE USED FOR ALL OTHER PURPOSES, INCLUDING LIGHTING SWITCHING, COMMUNICATIONS AND POWER ONLY RUNS OR DATA ONLY RUNS.
CESS CONTROL ELECTRO-MAGNETIC LOCK. SEE GENERAL NOTE 29.	28. SURFACE CONDUIT IS ACCEPTABLE IN LIEU OF SURFACE RACEWAYS IN MECHANICAL ROOMS, JANITOR CLOSETS AND STORAGE ROOMS.
CESS CONTROL DOOR CONTACT.	29. PROVIDE 120 VOLT CIRCUIT FROM PANELBOARDS FOR ELECTRONIC ACCESS CONTROL OR MAGNETIC LOCK. SEE PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION. SEE PANELS E2 AND F2.
ASSROOM WALL MOUNTED SPEAKER, WALL CLOCK COMBO UNIT	30. SEE ARCHITECTURAL PAINTING SPECIFICATIONS FOR ALL CONDUIT AND WIRING IN LOBBY AREAS AND EXPOSED CEILINGS. ALL WIRING IN
SH TO TALK CONNECTED TO PAGING SYSTEM.	
<u>GEND NOTES</u> ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS INDICATED OTHERWISE.	
LIGHTING FIXTURE CROSSHATCH INDICATES DUAL CONNECTION TO	
INTEGRAL BATTERY BALLAST	AFFABOVE FINISHED FLOOR CGG GROUND GF / GFIOSOCCUPANCY SENSOR PNLImage: Constraint of the sense of the se
	CODES & STANDARDS
	NFPA 70: NATIONAL ELECTRICAL CODE 2017 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE 2016 VECC: VIRGINIA ENERGY CONSERVATION CODE 2018

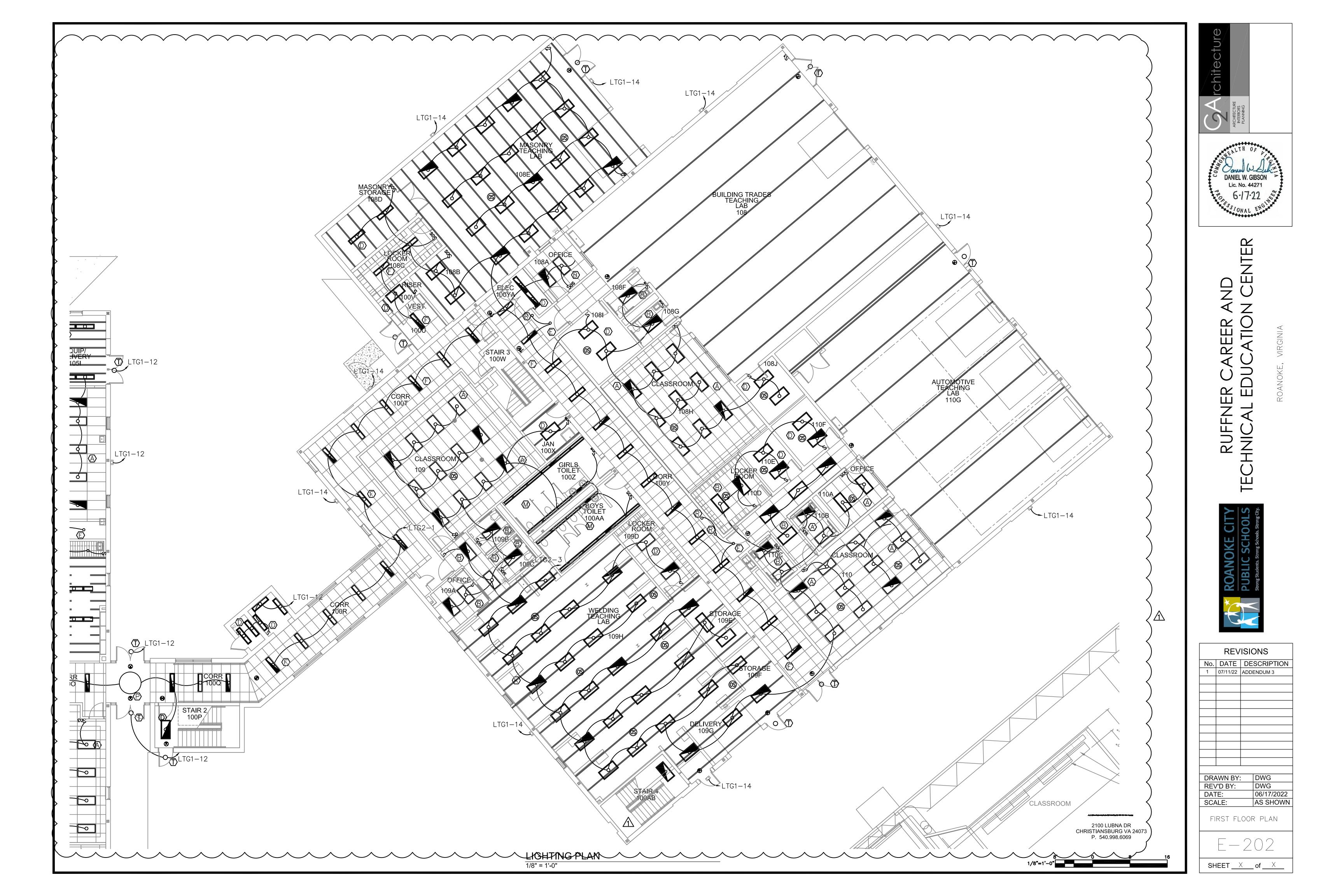
RK	MANUFACTURER	MODEL NUMBER	INPUT VOLTAGE	LAMPS TYPE	TOTAL WATTS	MNTG.	REMARKS	
A	LITHONIA	EPANL 2X4 48L 80CRI 40K MIN10 EZT (E10WCP)	MVOLT	LED	45	GRID	2X4 GRID MOUNTED, CLASSROOM/OFFICE FIXTURE	
$\overline{B}$	LITHONIA	EPANL 2X4 40L 80CRI 40K MIN10 EZT (E10WCP)	MVOLT	LED	38	GRID	2X4 GRID MOUNTED, CLASSROOM/OFFICE FIXTURE	
$\overline{\langle c \rangle}$	LITHONIA	IBH 12000LM SD080 MD 0Z10 35K 80CRI	MVOLT	LED	112	PEND	HIGH BAY LED FIXTURE	
	LITHONIA	FMLWL 48 840 ZT MVOLT	MVOLT	LED	42	PEND/SURF	SURFACE MOUNTED, WRAP AROUND	
E	LITHONIA	LDN6 35/15 L06AR LSS MVOLT EZ10	MVOLT	LED	17.5	REC	6" DOWN LIGHT	
$\overline{\langle F \rangle}$	MARK LIGHTING	SL2L 4FT FLP 80CRI 40K 800LMF MIN1 MVOLT	MVOLT	LED	37.3	REC (GRID)	2" SLOT FIXTURE, RECESSED MOUNTED IN GRID. (E10WLCP)	
	LITHONIA	EPANEL 2X2 3400LM 80CRI 40K	MVOLT	LED	30	REC	2X2 GRID MOUNTED, CLASSROOM/OFFICE FIXTURE	
<u> </u>	LITHONIA	WL2 18L EZ1 LP840	MVOLT	LED	17.5	SURF	WALL SCONCE OVER VANITY	
J	MARK LIGHTING	SL2L 4FT FLP 80CRI 40K 800LMF MIN1 MVOLT	MVOLT	LED	37.3	REC	2" SLOT FIXTURE, RECESSED MOUNTED IN HARDWOOD (E10WLCP)	
ĸ	LITHONIA	CPANL 2X4 AL06 SWW7M2	MVOLT	LED	52.7	PEND	PENDANT OR SURFACE MOUNT	
	LITHONIA	SBL4 LP840 (CI-254RK)	MVOLT	LED	32.	SURF		
$\overline{M}$	MARK LIGHTING	SPRLED LOP 23FT6 RLP G9 80CRI 40K 800LMF MIN1 MVOLT Z	MVOLT	LED	8/FT	SURF		
$\overline{\mathbb{N}}$	LUMETTA	SHADOW DRUM 18" PENDANT P2092	MVOLT	LED			MOUNT FIXTURE WITH TOP OF TRANSLUMENATE DIFFUSER AT 8" BELOW FINISHED WOOD CEILING (9'0" AFF)	
$\overline{P}$	SPI LIGHTING	NOVATO RING (AIP11849 60 INCH)	MVOLT	LED			MOUNT WITH TOP OF FIXTURE AT 9'0" AFF; 3500-4000K; 4-LINE SUSPENSION; MB02; WHITE	
$\overline{\mathbb{R}}$	LITHONIA	WF3 LED 40KMW	MVOLT	LED	7.9	REC	3" LED WAFER LIGHT	
$\overline{s}$	HATCO LIGHTING	DL-775-RTL 71 7/8 MONO MOUNT RETRACK CORD	MVOLT	LED		PEND	PENDANT MOUNTED HEAT LAMPS, BRIGHT NICKEL	
<u> </u>	JUNO LIGHTING	JSF 7IN 10LM 40K 90CRI MVOLT ZT BL M6	MVOLT	LED		SURF	SURFACE MOUNT W/ EMERGENCY BATTERY BACKUP, CANOPY BATTERY IN ALL LOCATIONS	
<u> </u>	KIM LIGHTING	LTV81FF SP 4K UV 42W 10 FIELD ANGLE 36L 4K SR	MVOLT		42	IN-GRADE	LIGHT FIXTURES AT FLAG POLE, INGRADE FLOOD	
$\overline{\mathbb{V}}$	HOLOPHANE LIGHTING	AUCL2 P30 30K MVOLT FC5 BK SK AO 88W	MVOLT		88W	POLE MNT	POLE LIGHT FIXTURE IN COURTYARD,HOLOPHANE CPC 10FT FTN 18"DIA CO4 GN GRD	
$\overline{\langle w \rangle}$	MARK LIGHTING	SL2L 4FT FLP 80CRI 40K 800LMF MIN1 MVOLT GB	MVOLT	LED	37.3	REC	2" SLOT FIXTURE, RECESSED MOUNTED IN DRYWALL. (E10WLCP)	
$\overline{\mathbf{x}}$	MARK LIGHTING	S2LID LLP (RUN) MS6 90CRI 40K 800LMF MIN1 I90CRI I40K I800LMF AS EGLD (E10WLCP)	MVOLT	LED	30.6	PEND	6' DIRECT/INDIRECT PENDANT	
$\overline{\mathbf{Y}}$	MARK LIGHTING	S2LD LLP (RUN) MS8 90CRI 40K 800LMF MIN1	MVOLT	LED	30.6	PEND	PENDANT MOUNTED SLOT, 2" REVEAL, BLACK FINISH,EDGE LENS AIRCRAFT CABLE	
Z	LITHONIA	EPANL 1X4 400LM 80CRI 40K SLD	MVOLT	LED	37	REC	1X4; CENTERED IN GRID	
$\overline{\otimes}$	LITHONIA	LRP (1)(2)(GC)(GR)(LA,RA,LRA DA)ELN(EM)(TM)	MVOLT	LED	9.7	REC	EDGE LIT EXIT SIGN, GREEN WITH MOUTNTING/CHEVRONS AS REQ.	

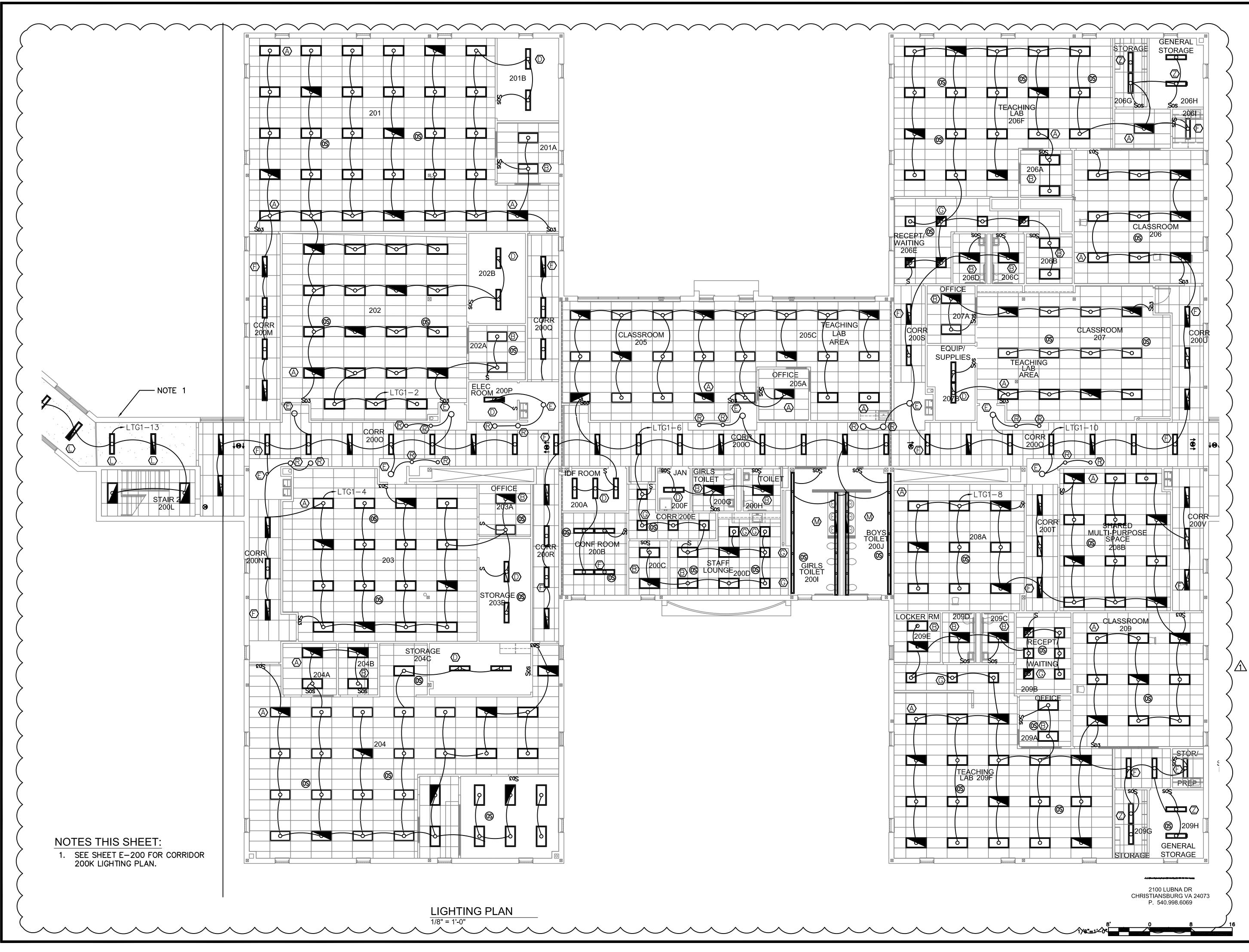


1/16" = 1'-0"

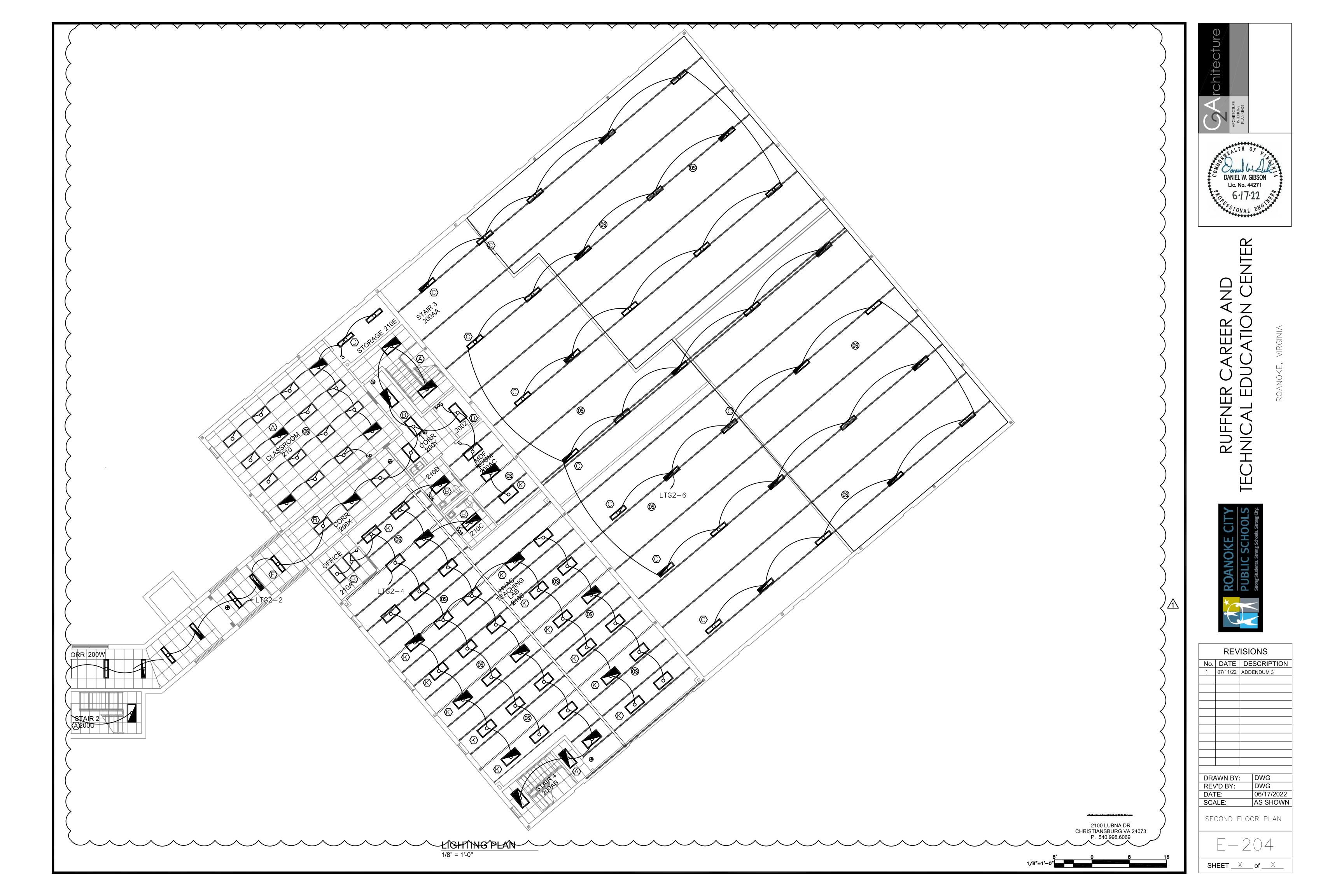


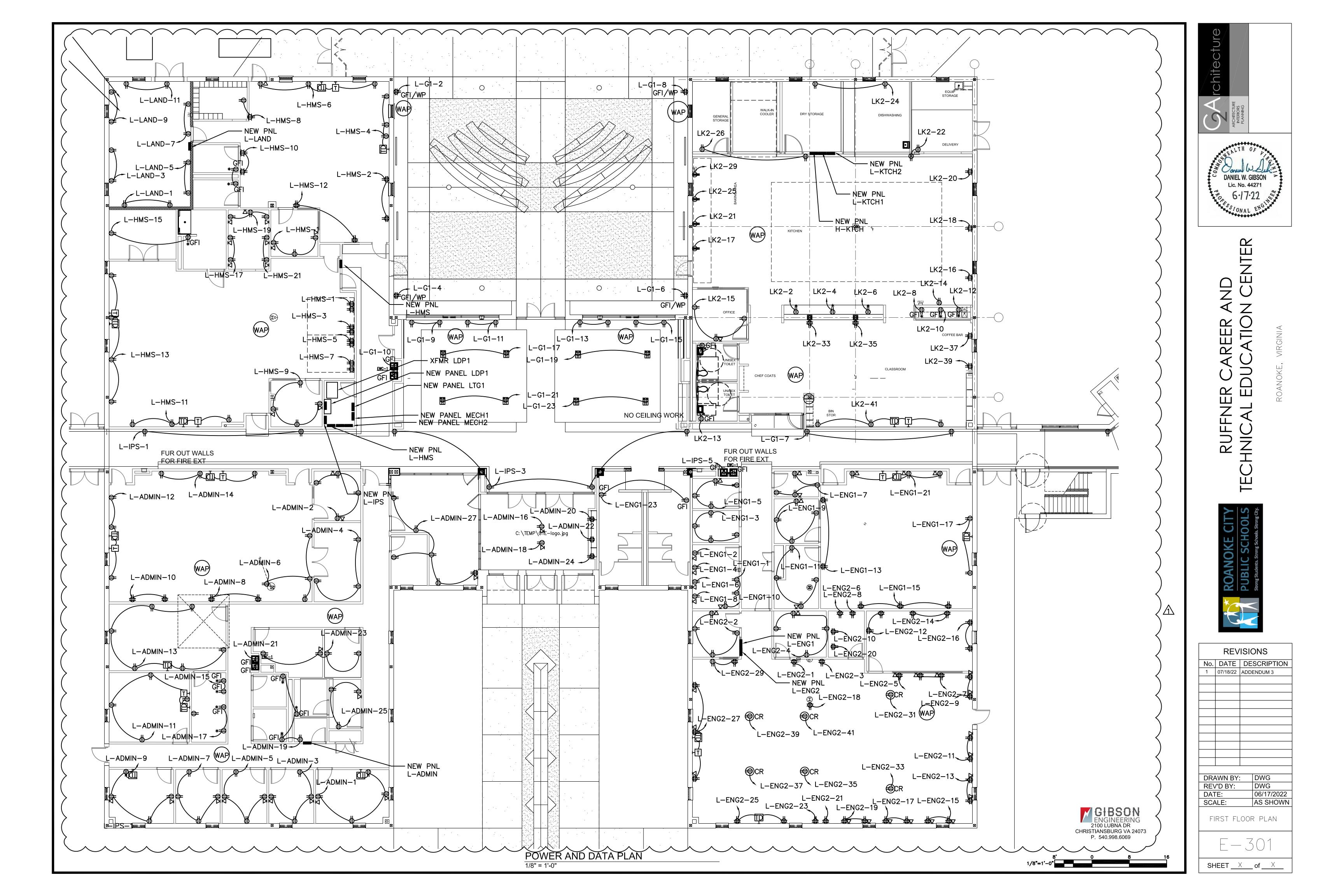


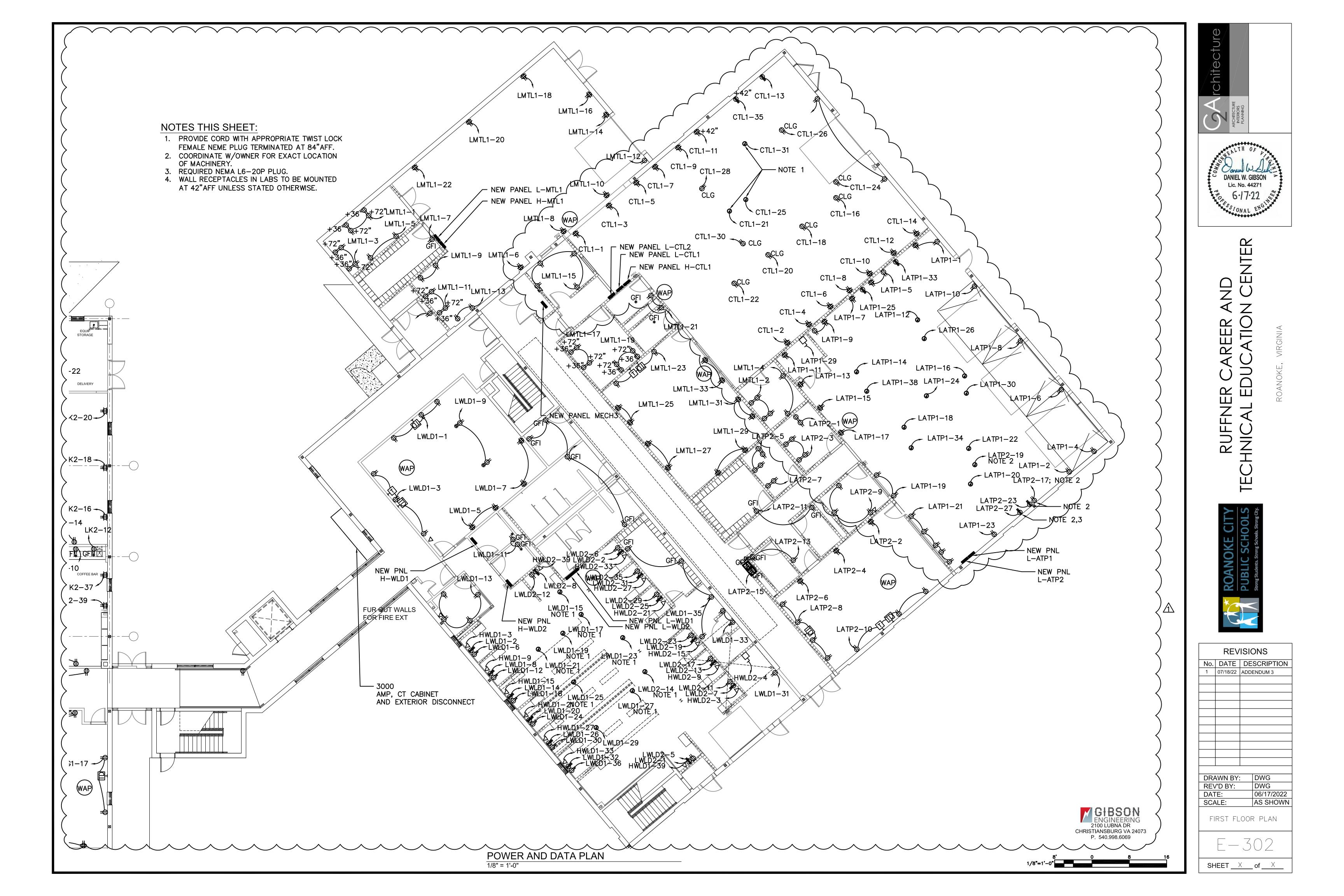


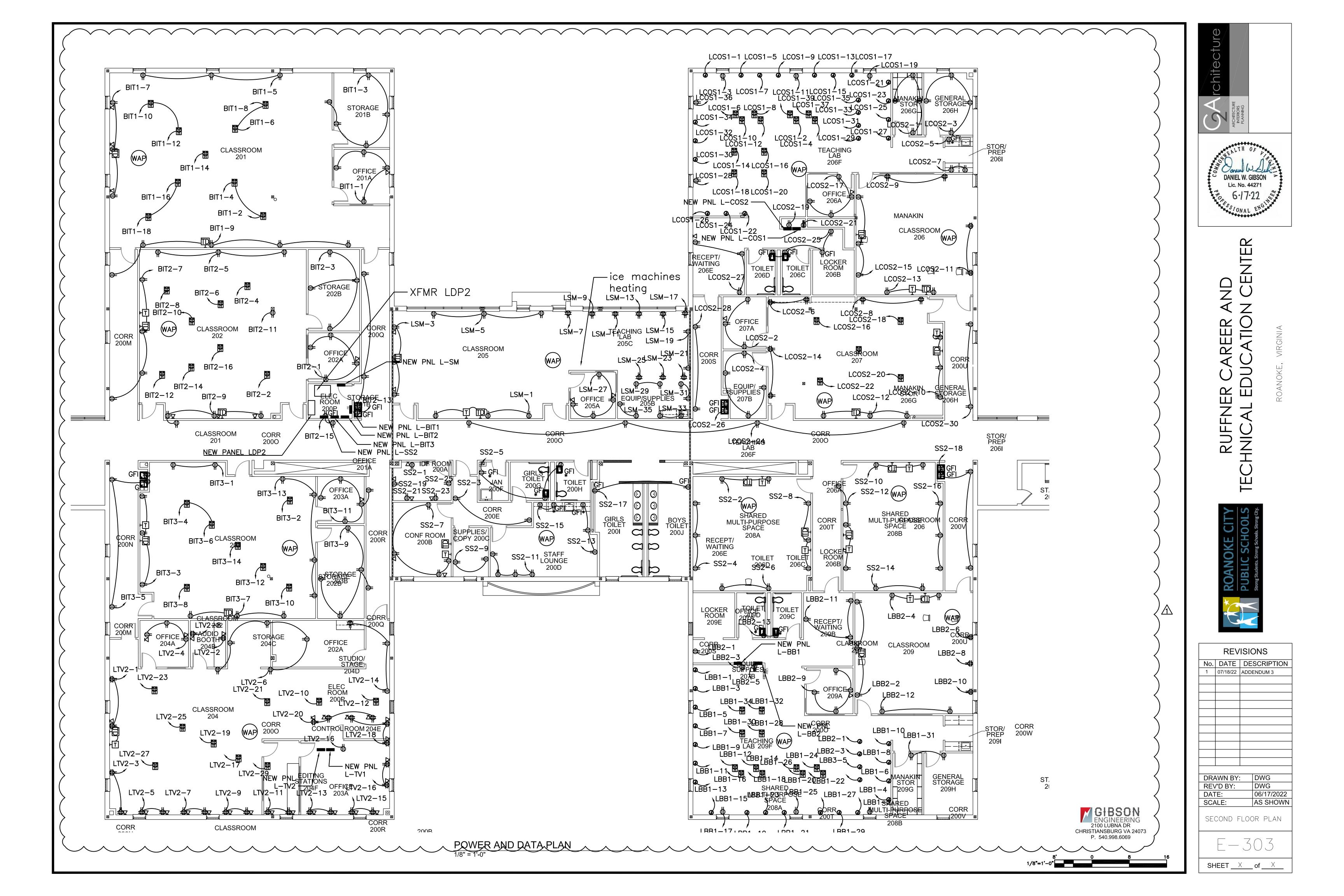


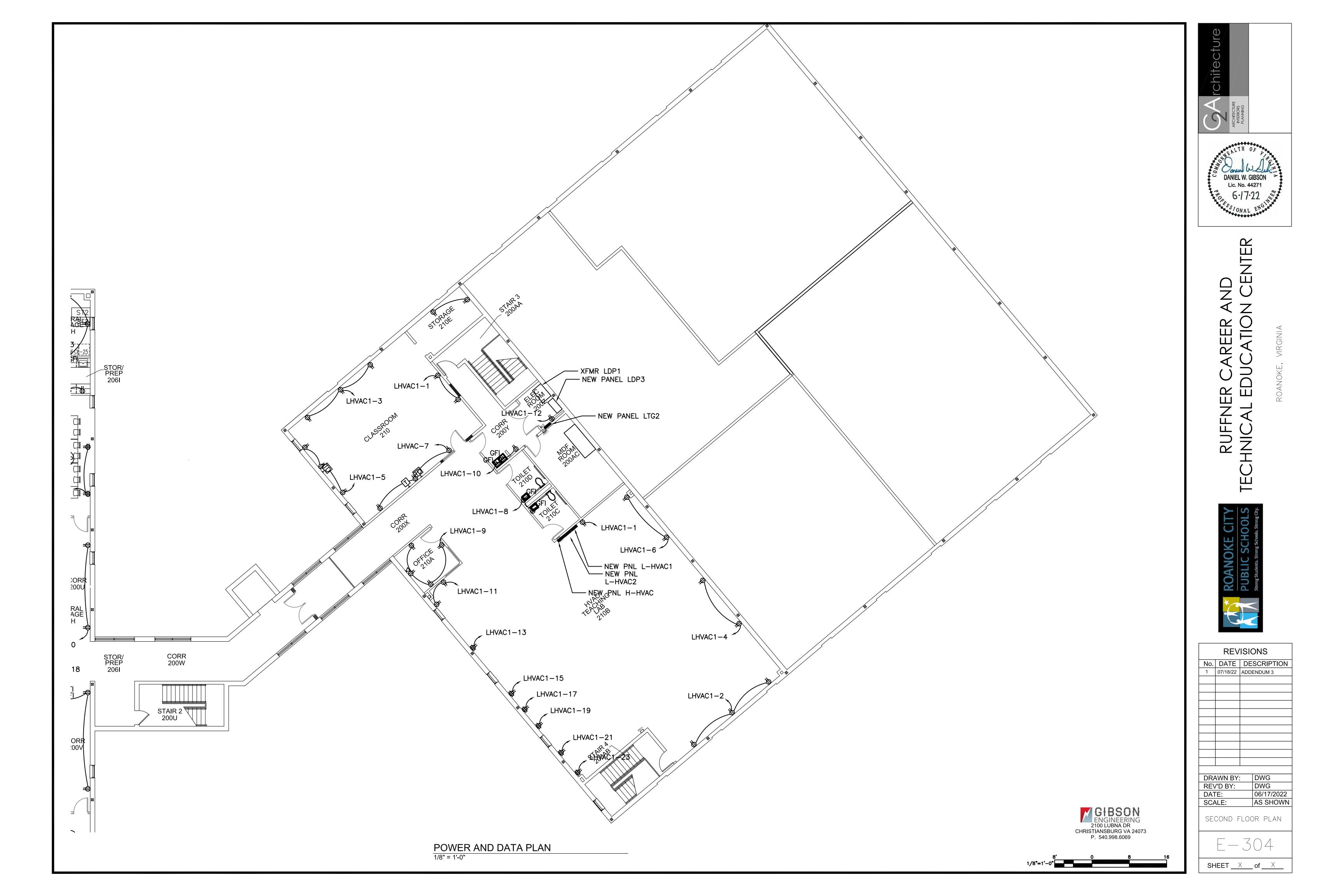


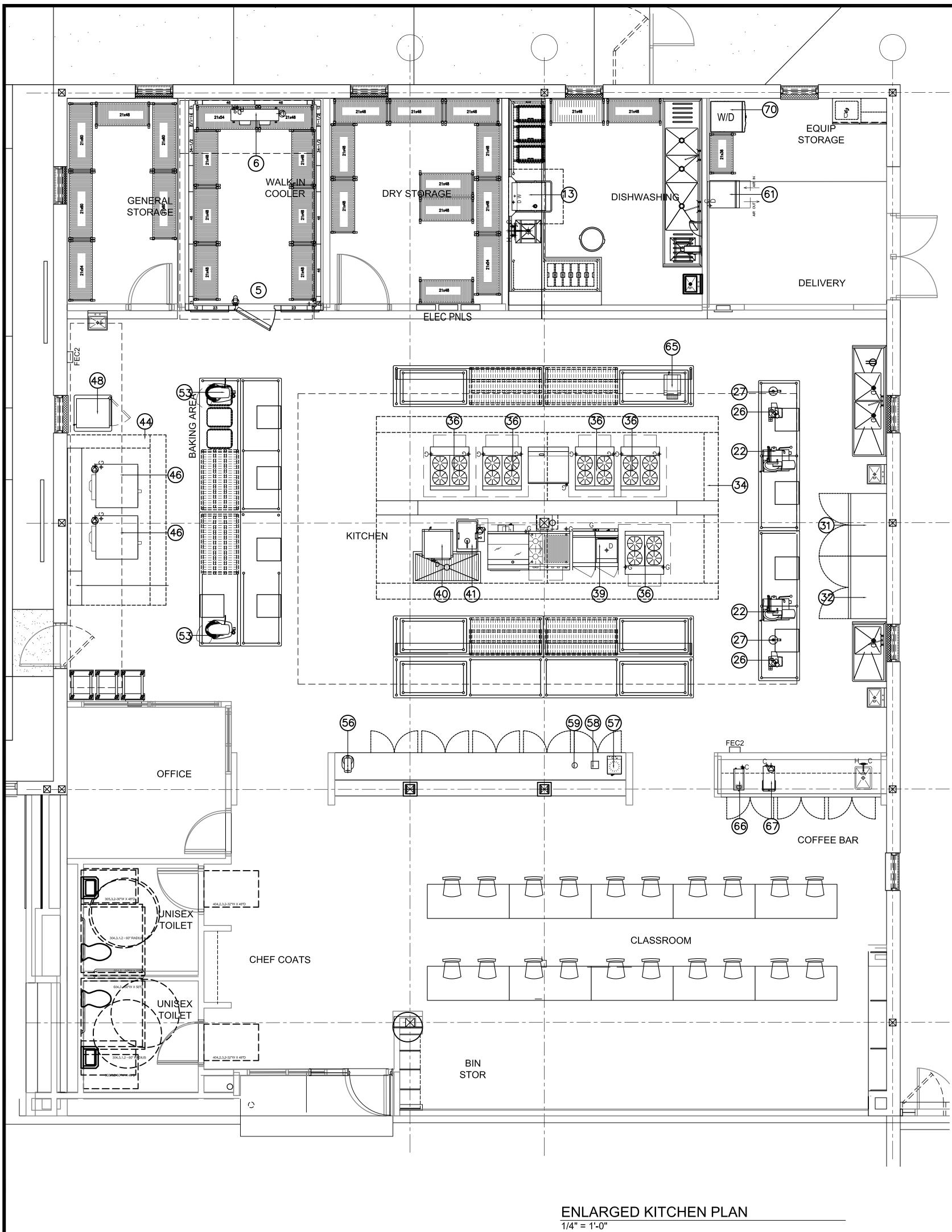












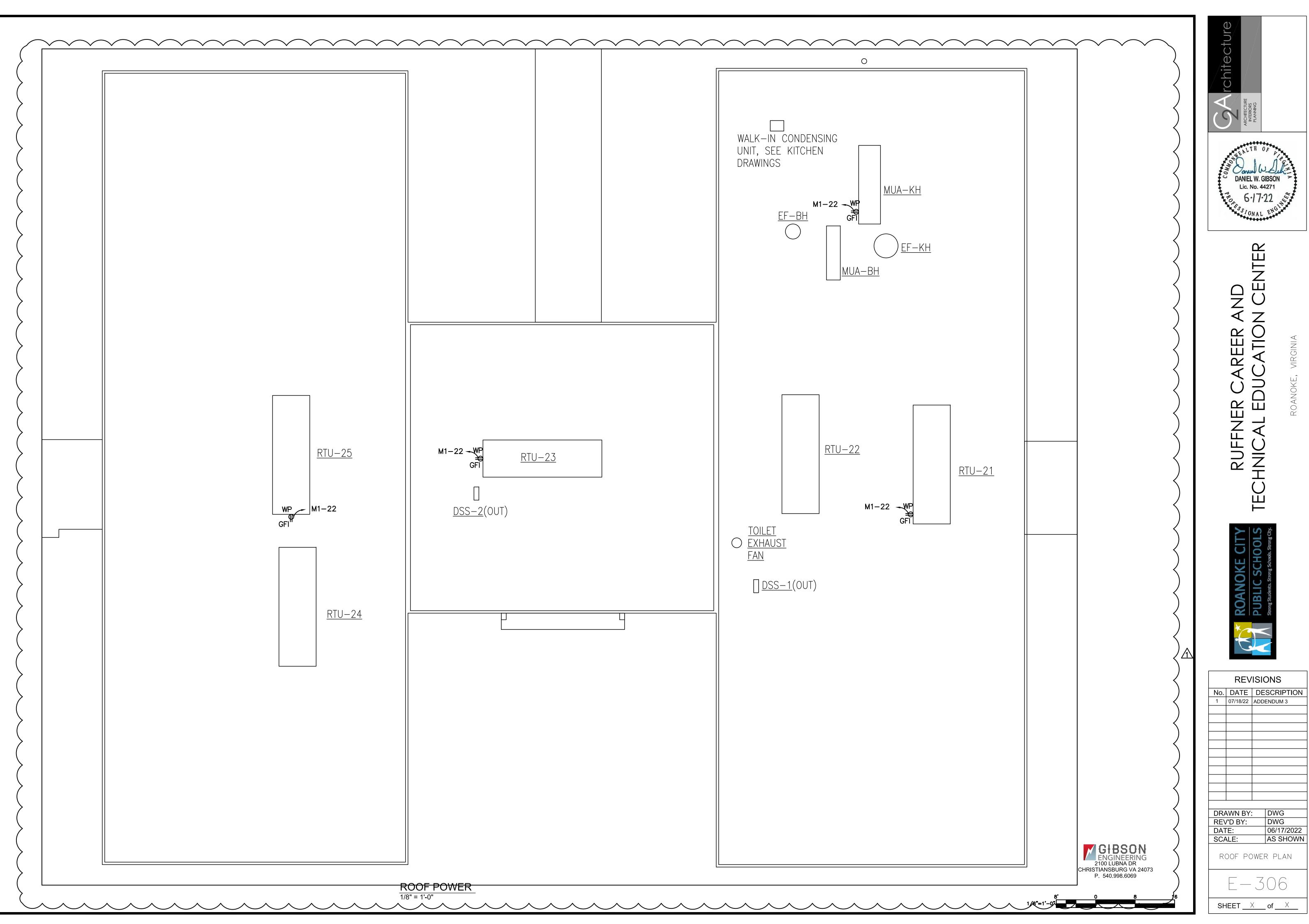
ITEM	DESCRIPTION	CK#	NOTES
5	WALK-IN COOLER	LK1-1	
6	WALK-IN COOLER EVAP COIL	LK1-3	
7	WALK-IN COOLER COMPRESSOR	LK1-7	
13	DISHWASHER	LK1-13	REQUIRES ADDITIONAL 208/60/3, 54.8A CONN AT BOOSTER HTR (LK1-38)
22	SLICERS	LK1-27 LK1-29	NEMA 5-15P
26	FOOD PROCESSORS	LK1-25 LK1-31	NEMA 5-15P
27	ONE GALLON BLENDERS	LK1-23 LK1-33	NEMA 5-15P
31	2-DOOR REFRIDGERATOR	LK1-35	NEMA 5-15P
32	2-DOOR FREEZER	LK1-37	NEMA 5-15P
34	FIRE SUPPRESSION SYSTEM	LK1-20	
34		LK1-22	
36	4-BURNER RANGE		CONNECTS TO UDS
39	FRYERS W/FILTER SYSTEM		CONNECTS TO UDS
40	DOUBLE STEAMER		CONNECTS TO UDS
<b>4</b> 1	<b>10-GALLON TILT SKILLET</b>		CONNECTS TO UDS
44	FIRE SUPPRESSION SYSTEM	LK1-24	
46	DOUBLE CONVECTION OVENS		CONNECTS TO UDS
48	MOBILE PROOFER/WARMERS	LK1-14	NEMA 5-15P
53	20-QUART MIXERS	LK1-16 LK1-18	NEMA 5-15P
56	6-QUART MIXERS	LK1-12	NEMA 5-15P ONLY (10 ONE SHOWN, BALANCE ARE STORED IN BASE OF ENCLOSED STORAGE COUNTER
57	INDUCTION COOK TOPS	LK1-6	NEMA 5-15P ONLY (10 ONE SHOWN, BALANCE ARE STORED IN BASE OF ENCLOSED STORAGE COUNTER
58	INGREDIENT SCALES	LK1-8	NEMA 5-15P ONLY (10 ONE SHOWN, BALANCE ARE STORED IN BASE OF ENCLOSED STORAGE COUNTER; (3)C SIZE BATTERIES MAY BE USED IN LIEU OF C&P
59	IMMERSION BLENDERS	LK1-10	NEMA 5-15P ONLY (10 ONE SHOWN, BALANCE ARE STORED IN BASE OF ENCLOSED STORAGE COUNTER
61	ICE MACHINE	LK1-21	NEMA 5-15P
65	CONVEYOR TOASTER	LK1-26	NEMA 5-15P
66	ICE TEA BREWER	LK1-4	NEMA 5-15P
67	COFFEE BREWER	LK1-2	NEMA 5-15P
70	WASHER/DRYER	LK1-17	

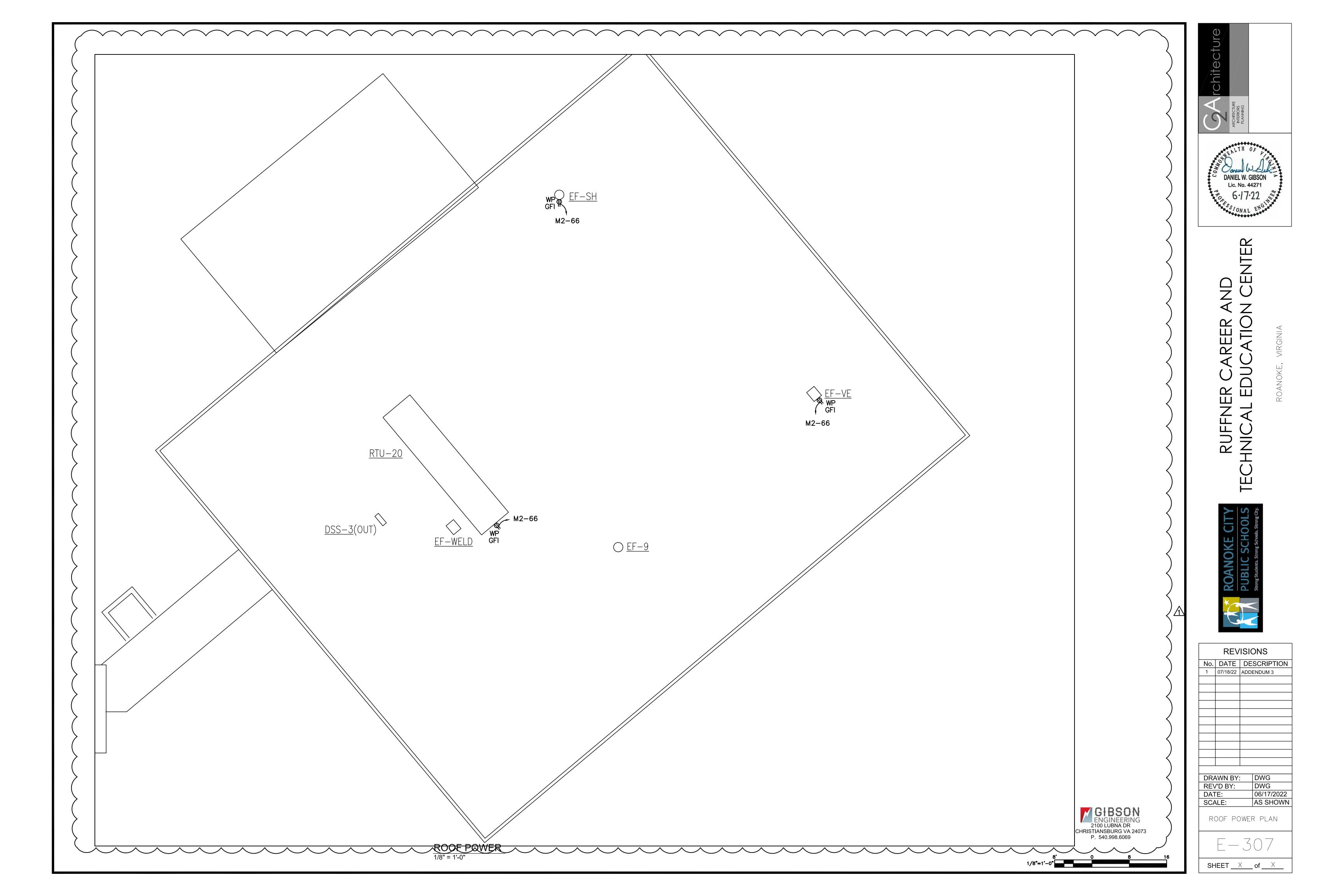


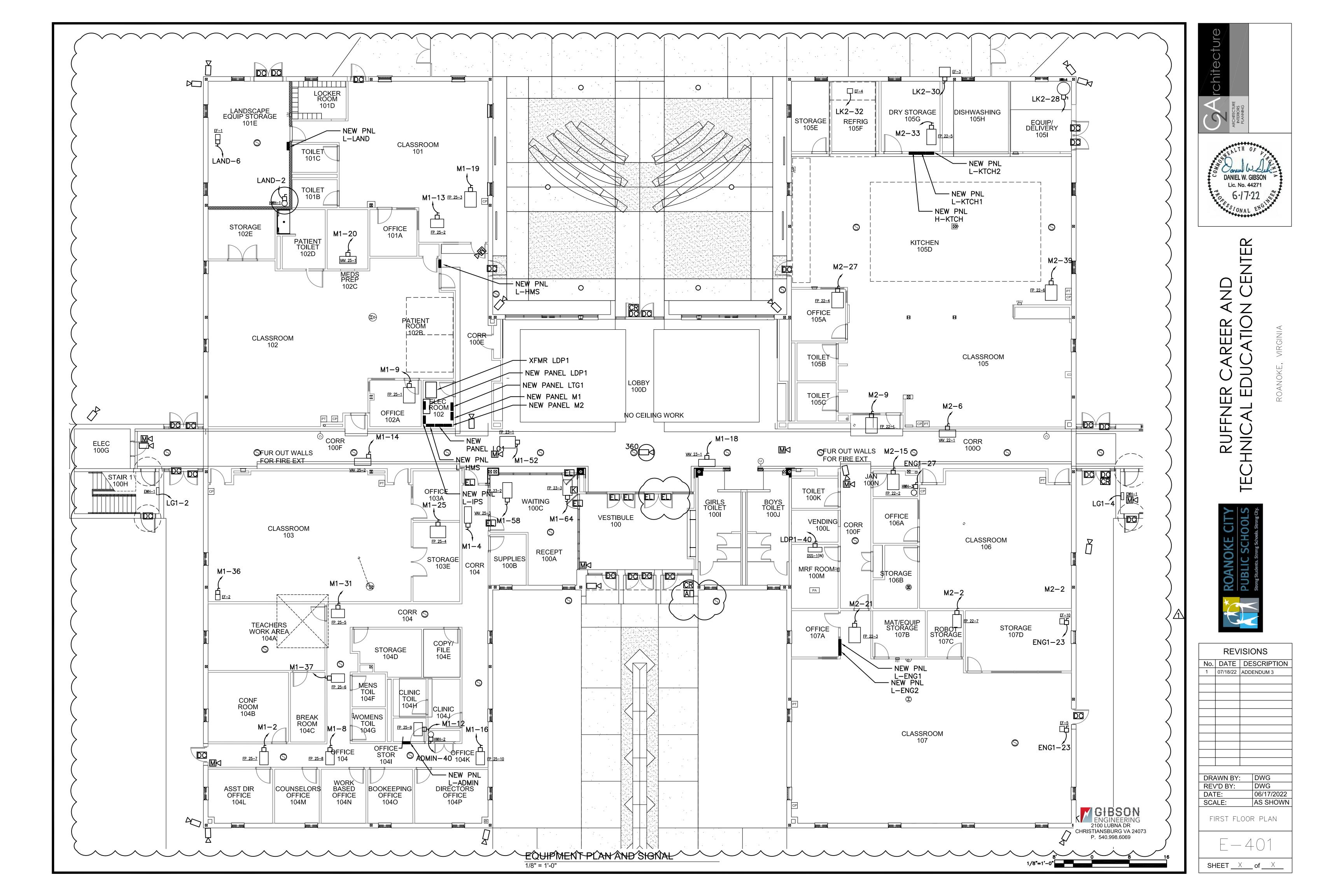
SHEET  $\underline{\times}$  of  $\underline{\times}$ 

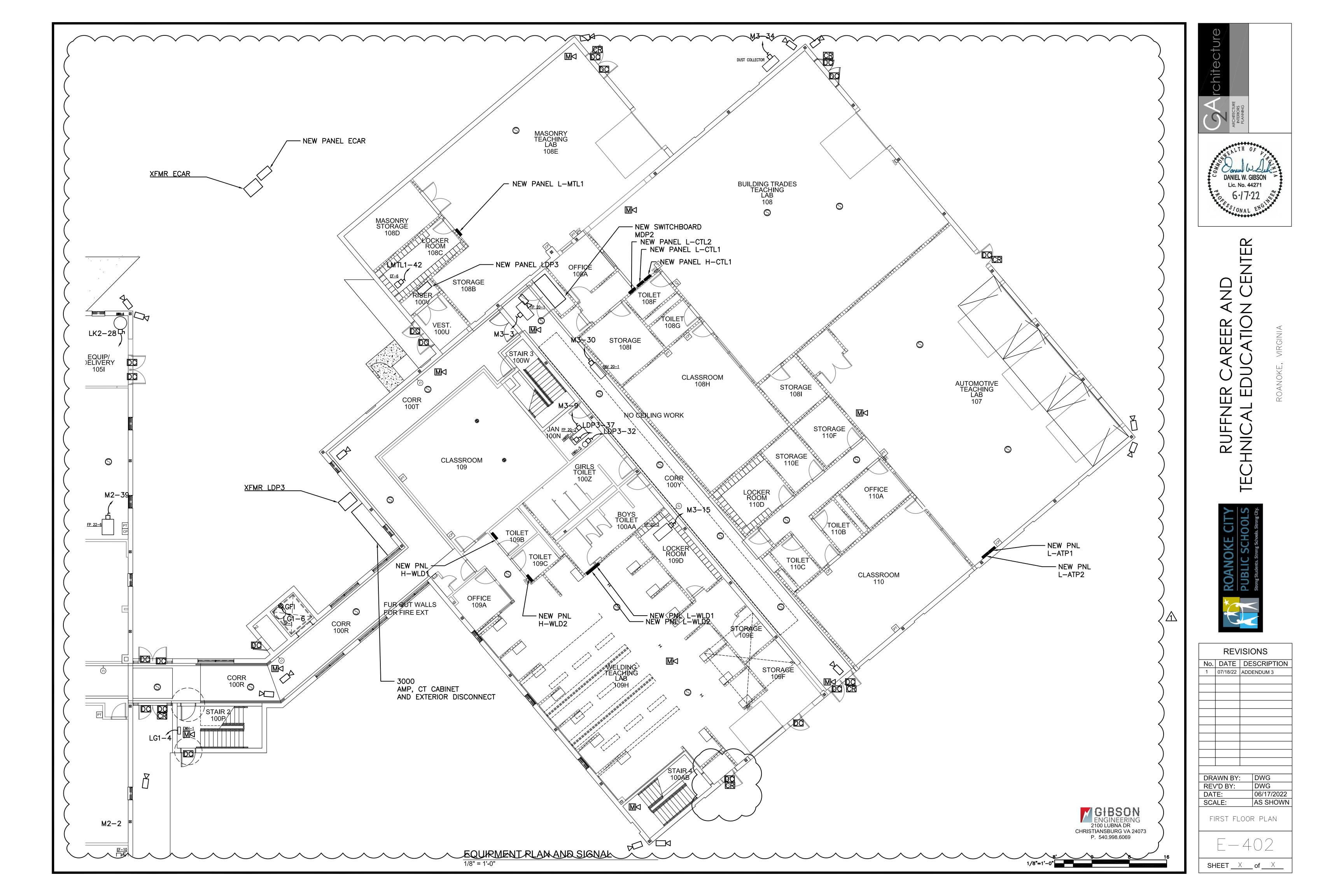
2100 LUBNA DR
CHRISTIANSBURG VA 24073 P 540 998 6069
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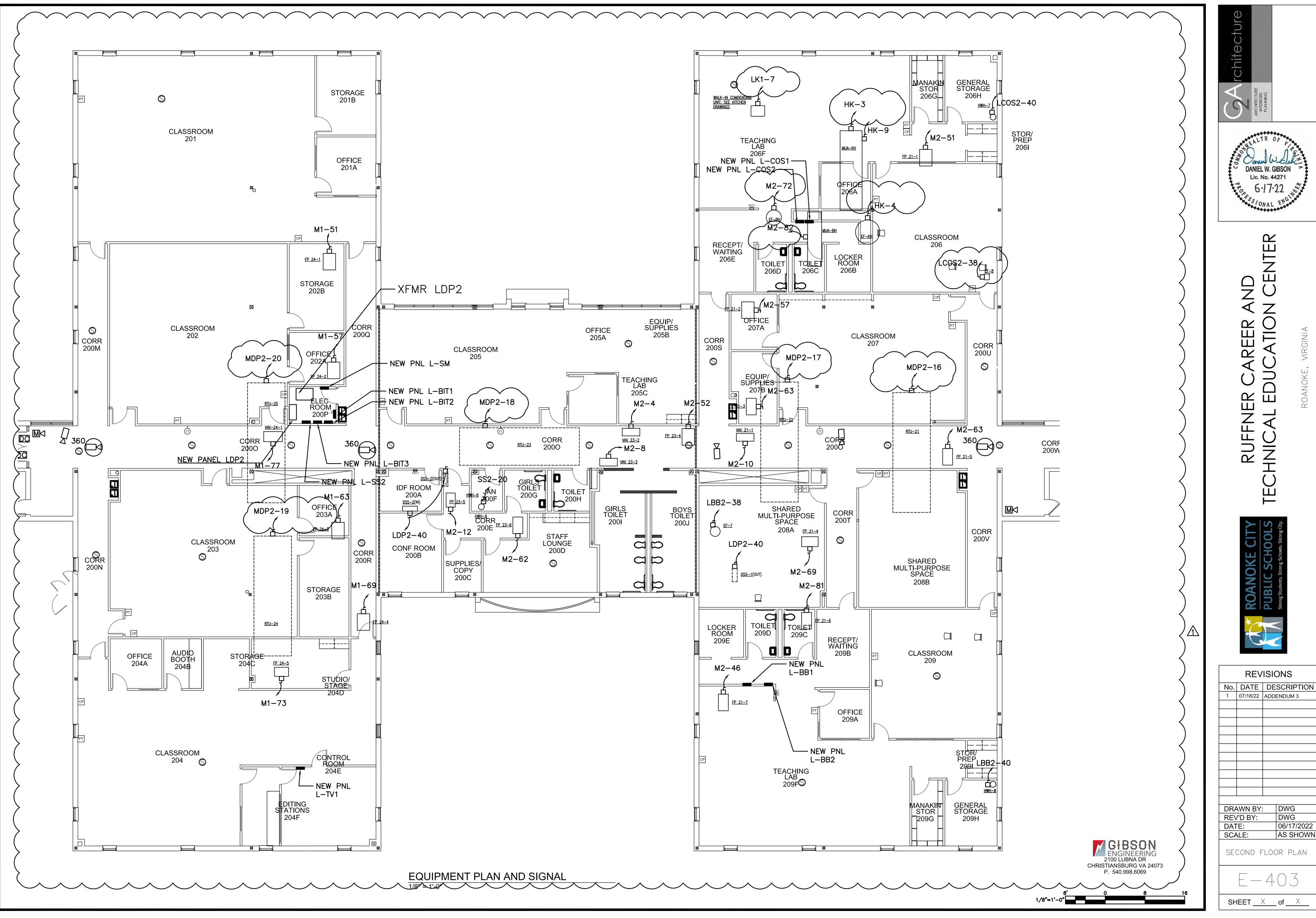
8'	Q	8	16
1/8"=1'-0"			

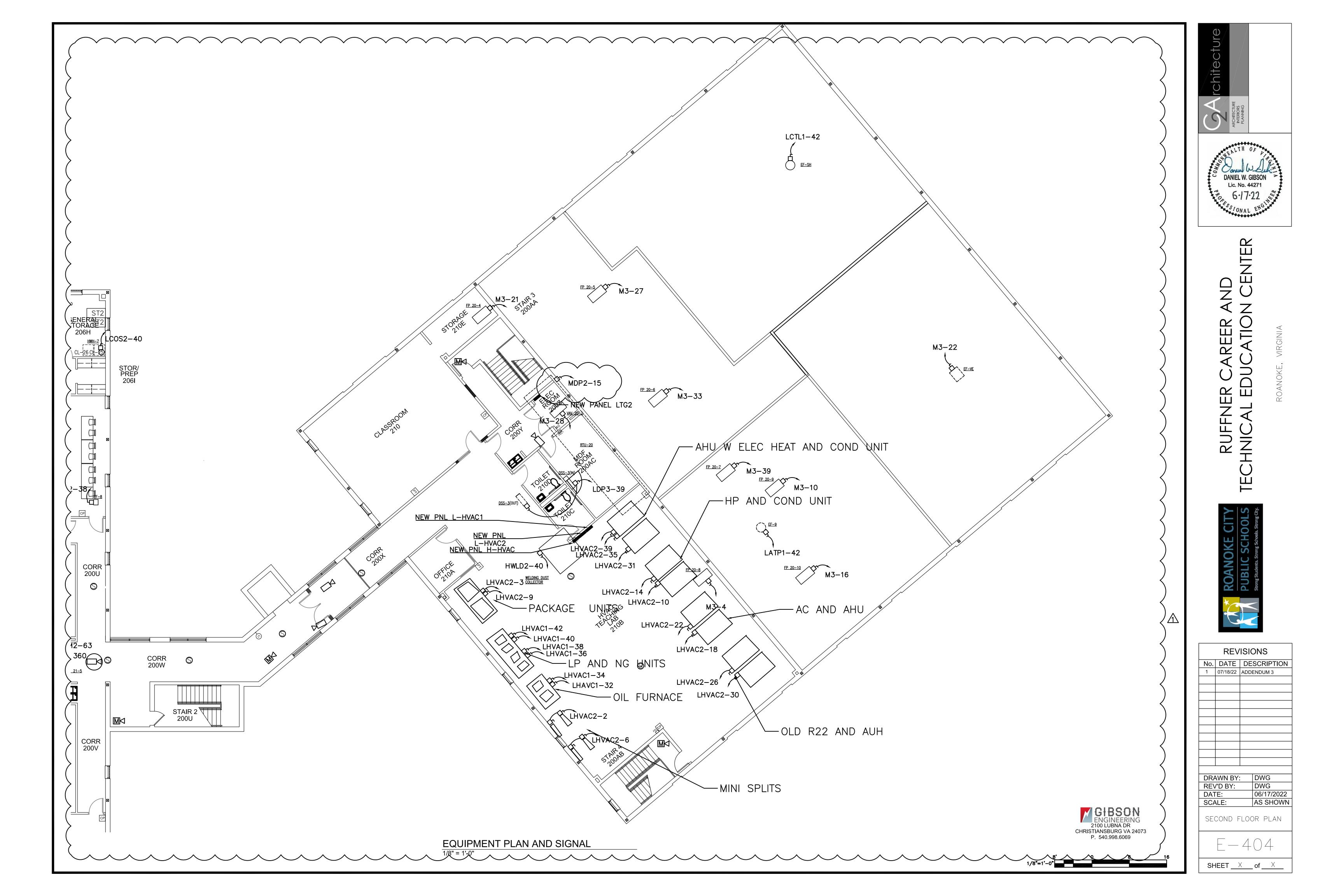


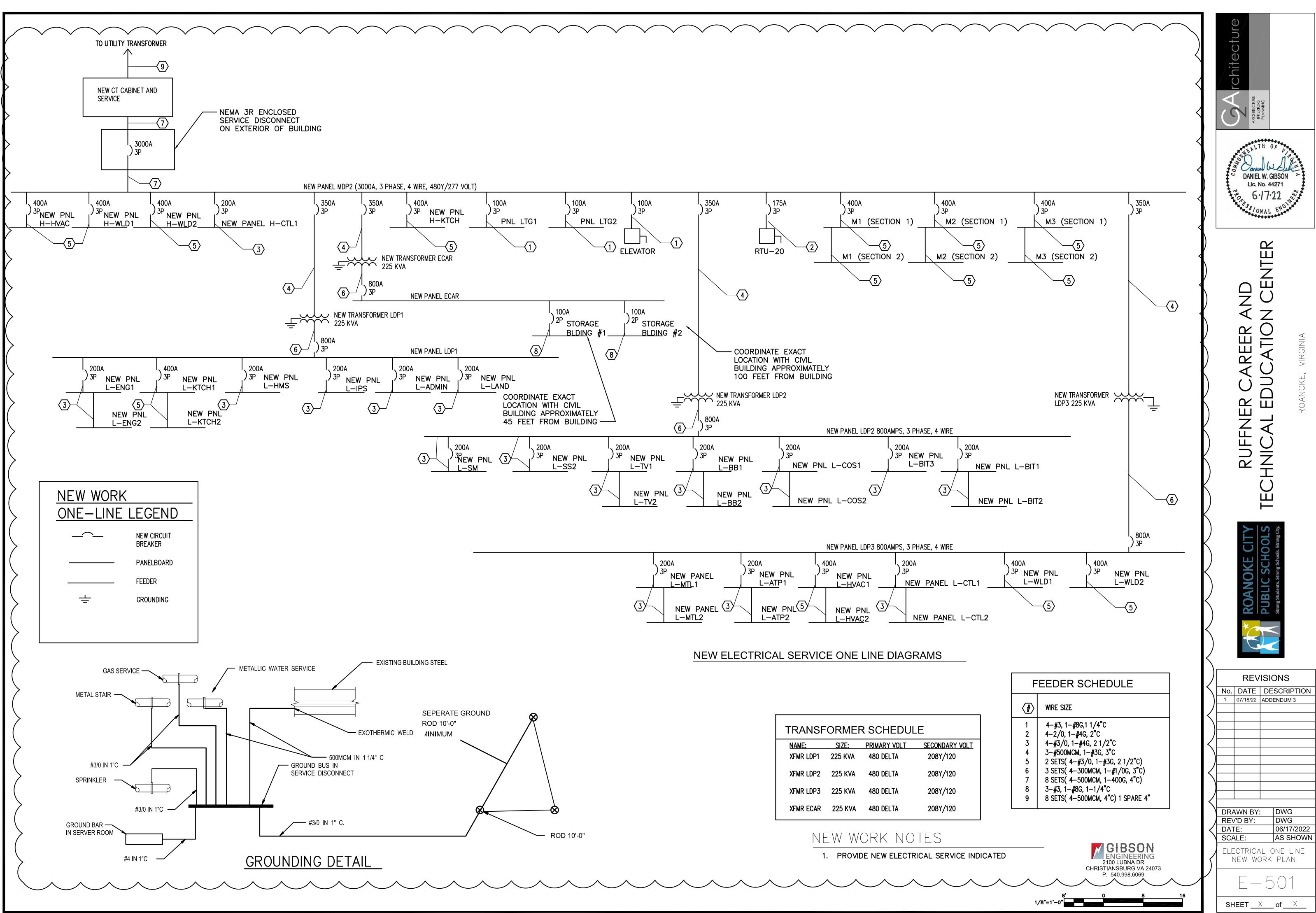




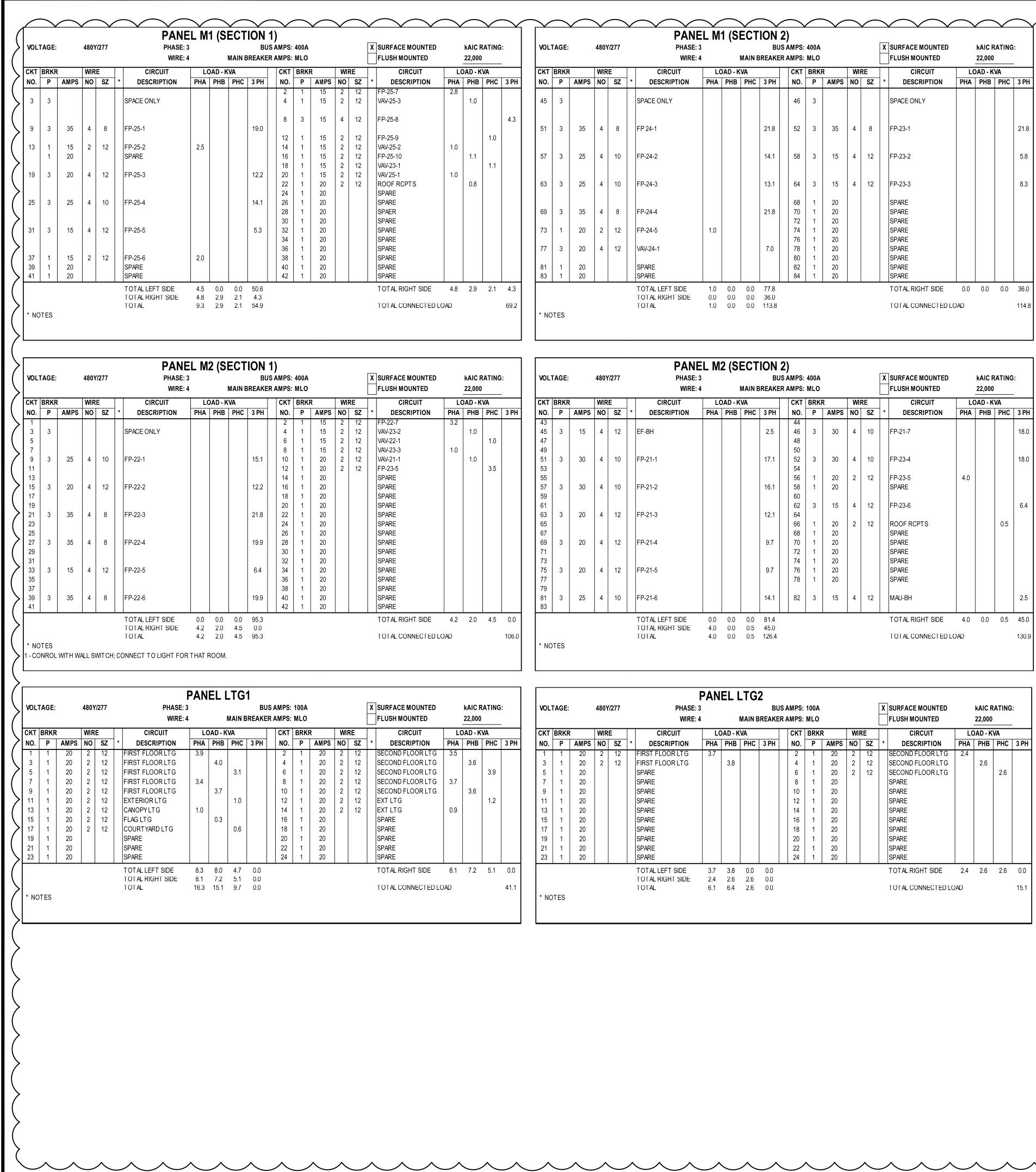








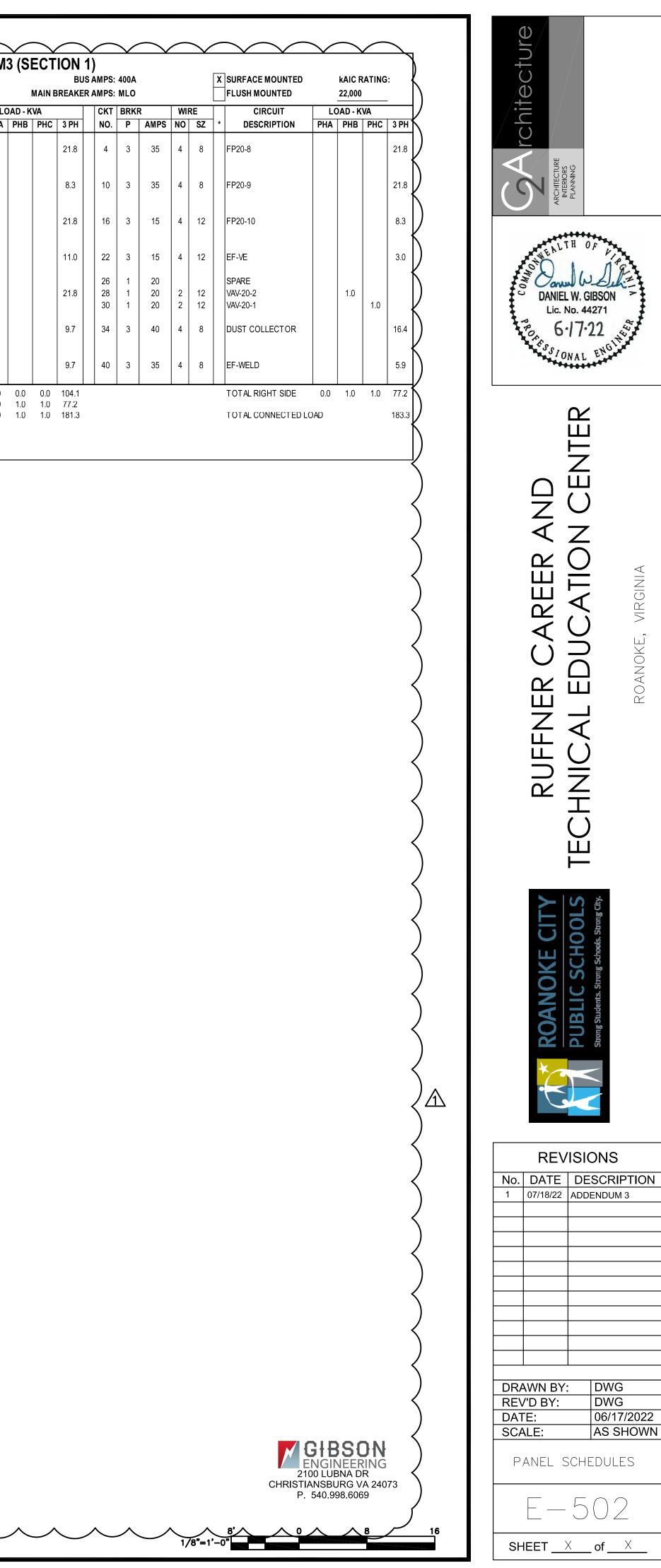
TRANSF	ORME	R SCHEDUI	_E
NAME:	SIZE:	PRIMARY VOLT	SECC
XFMR LDP1	225 KVA	480 DELTA	208
XFMR LDP2	225 KVA	480 DELTA	208
XFMR LDP3	225 KVA	480 DELTA	208
XFMR ECAR	225 KVA	480 DELTA	208



	480Y	/277	PANE PHASE: 3 WIRE: 4	3	-			SAMPS:						SURFACE MOUNTED	$\frown$	kAIC R 22,000			vo	LTAG	E:	480	¥/277		PANE PHASE: 3 WIRE: 4	3	ン 3
	WIR		CIRCUIT		OAD - K				BRKI		WI			CIRCUIT		DAD - K				r Bri		WI			CIRCUIT	LC	
AMPS	NO	SZ	* DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	P	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO	. P	AMPS	S NO	SZ	*	DESCRIPTION	PHA	ŀ
			SPACE ONLY					46	3					SPACE ONLY					3	3	35	4	8		FP20-1		
35	4	8	FP 24-1				21.8	52	3	35	4	8		FP-23-1				21.8	9	3	15	4	12		FP20-2		
25	4	10	FP-24-2				14.1	58	3	15	4	12		FP-23-2				5.8	15	3	35	4	8		FP20-3		
25	4	10	FP-24-3				13.1	64	3	15	4	12		FP-23-3				8.3	21	3	20	4	12		FP20-4		
35	4	8	FP-24-4				21.8	68 70 72	1 1 1	20 20 20				SPARE SPARE SPARE					27	3	35	4	8		FP20-5		
20 20	2	12 12	FP-24-5 VAV-24-1	1.0			7.0	74 76 78	1   1   1	20 20 20				SPARE SPARE SPARE					33	3	20	4	12		FP20-6		
20 20			SPARE SPARE					80 82 84	1 1 1	20 20 20				SPARE SPARE SPARE					39	3	20	4	12		FP20-7		
	·1		TOTAL LEFT SIDE TOTAL RIGHT SIDE TOTAL	1.0 0.0 1.0	0.0 0.0 0.0	0.0 0.0 0.0	77.8 36.0 113.8						•	TOTAL RIGHT SIDE	0.0 DAD	0.0	0.0	36.0 114.8	* N	IOTES					TOTAL LEFT SIDE TOTAL RIGHT SIDE TOTAL	0.0 0.0 0.0	<u> </u>

				PANE	LM	2 (SI	ECT	ION	2)										
	480Y	/277		PHASE: 3		S AMPS:	400A				X	SURFACE MOUNTED		kAIC R	ATING	:			
				WIRE: 4		I	MAIN B	REAKE	R AMPS:	MLO					FLUSH MOUNTED		22,000		
	WIR	E		CIRCUIT	LC	DAD - K	VA		СКТ	BRK	R	WI	RE		CIRCUIT	LC	DAD - K	VA	
AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH
									44										
15	4	12		EF-BH				2.5	46	3	30	4	10		FP-21-7				18.0
									48										
									50										
30	4	10		FP-21-1				17.1	52	3	30	4	10		FP-23-4				18.0
									54										
									56	1	20	2	12		FP-23-5	4.0			
30	4	10		FP-21-2				16.1	58	1	20				SPARE				
									60 62	3	15	4	12		FP-23-6				6.4
20	4	12		FP-21-3				12.1	64	3	15	4	IZ		FP-23-0				0.4
20	4	12		FF-21-J				12.1	66	1	20	2	12		ROOF RCPTS			0.5	
									68		20	^	12		SPARE			0.5	
20	4	12		FP-21-4				9.7	70		20				SPARE				
								•	72		20				SPARE				
									74	1	20				SPARE				
20	4	12		FP-21-5				9.7	76	1	20				SPARE				
									78	1	20				SPARE				
25	4	10		FP-21-6				14.1	82	3	15	4	12		MAU-BH				2.5
				TOTAL LEFT SIDE	0.0	0.0	0.0	81.4		1	1	I		1	L TOTAL RIGHT SIDE	4.0	0.0	0.5	45.0
				TOTAL RIGHT SIDE	4.0	0.0	0.5	45.0											
				TOTAL	4.0	0.0	0.5	126.4							TOTAL CONNECTED LO	DAD			130.9
				TOTAL	4.0	0.0	0.5	126.4							TOTAL CONNECTED LO	)ad			

					PAN	EL l	_TG	2											
	480Y	//277		PHASE: 3				BU	IS AMPS	: 100A				X	SURFACE MOUNTED		kAIC R	RATING	:
				WIRE: 4			MAIN B	REAKE	RAMPS	: MLO					FLUSH MOUNTED		22,000		
	WIR	E		CIRCUIT	LC	DAD - K	VA		CK1	BRK	R	WI	RE		CIRCUIT	LC	DAD - K	VA	
AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH
20	2	12		FIRST FLOOR LTG	3.7				2	1	20	2	12		SECOND FLOOR LTG	2.4			
20	2	12		FIRST FLOOR LTG		3.8			4	1	20	2	12		SECOND FLOOR LTG		2.6		
20				SPARE					6	1	20	2	12		SECOND FLOOR LTG			2.6	
20				SPARE					8	1	20				SPARE				
20				SPARE					10	1	20				SPARE				
20				SPARE					12	1	20				SPARE				
20				SPARE					14	1	20				SPARE				
20				SPARE					16	1	20				SPARE				
20				SPARE					18	1	20				SPARE				
20				SPARE					20	1	20				SPARE				
20				SPARE					22	1	20				SPARE				
20				SPARE					24	1	20				SPARE				
				TOTAL LEFT SIDE	3.7	3.8	0.0	0.0							TOTAL RIGHT SIDE	2.4	2.6	2.6	0.0
				TOTAL RIGHT SIDE	2.4	2.6	2.6	0.0											
				TOTAL	6.1	6.4	2.6	0.0							TOTAL CONNECTED LC	DAD			15.1



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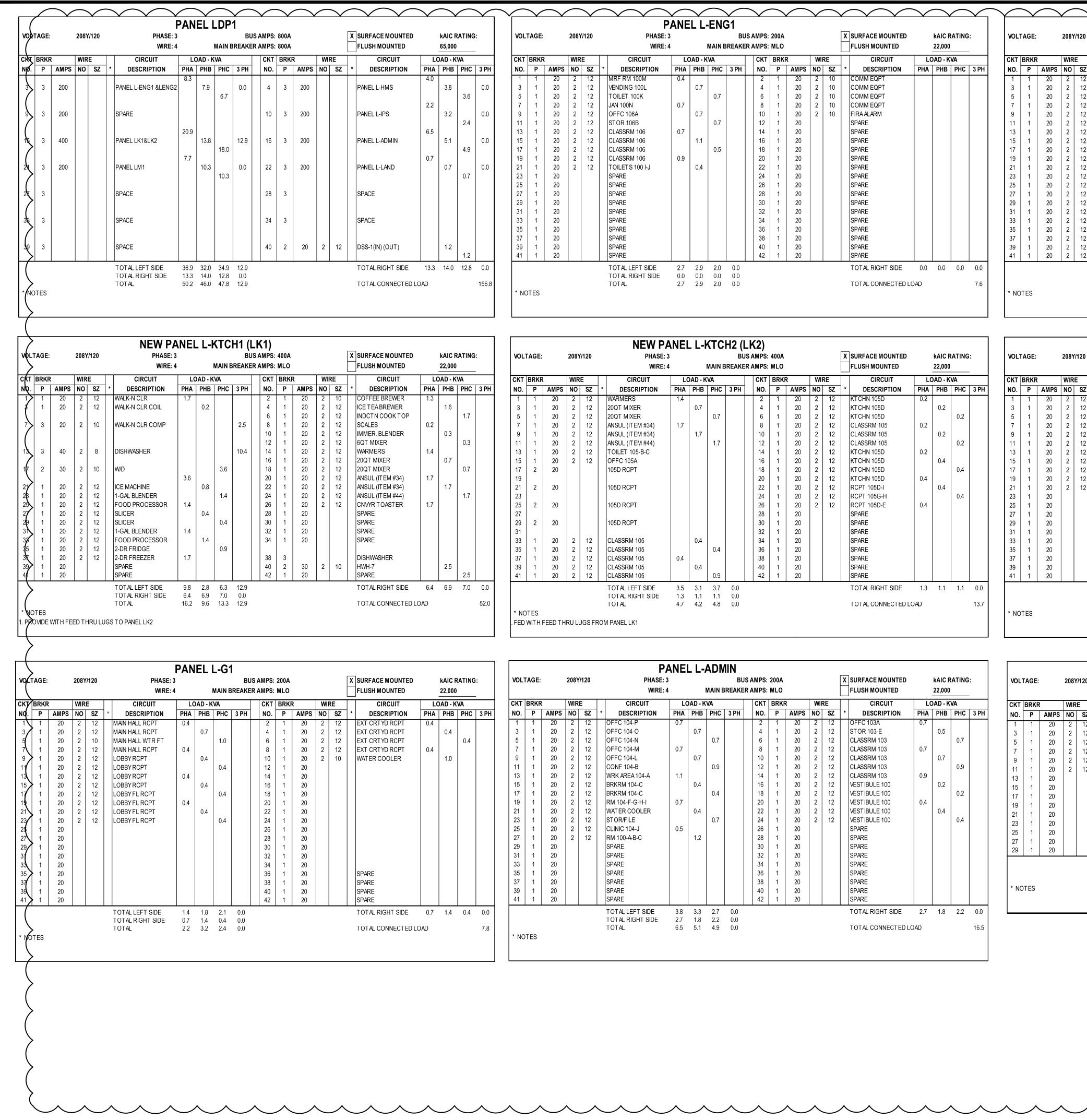
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DWG

DWG

06/17/2022

AS SHOWN

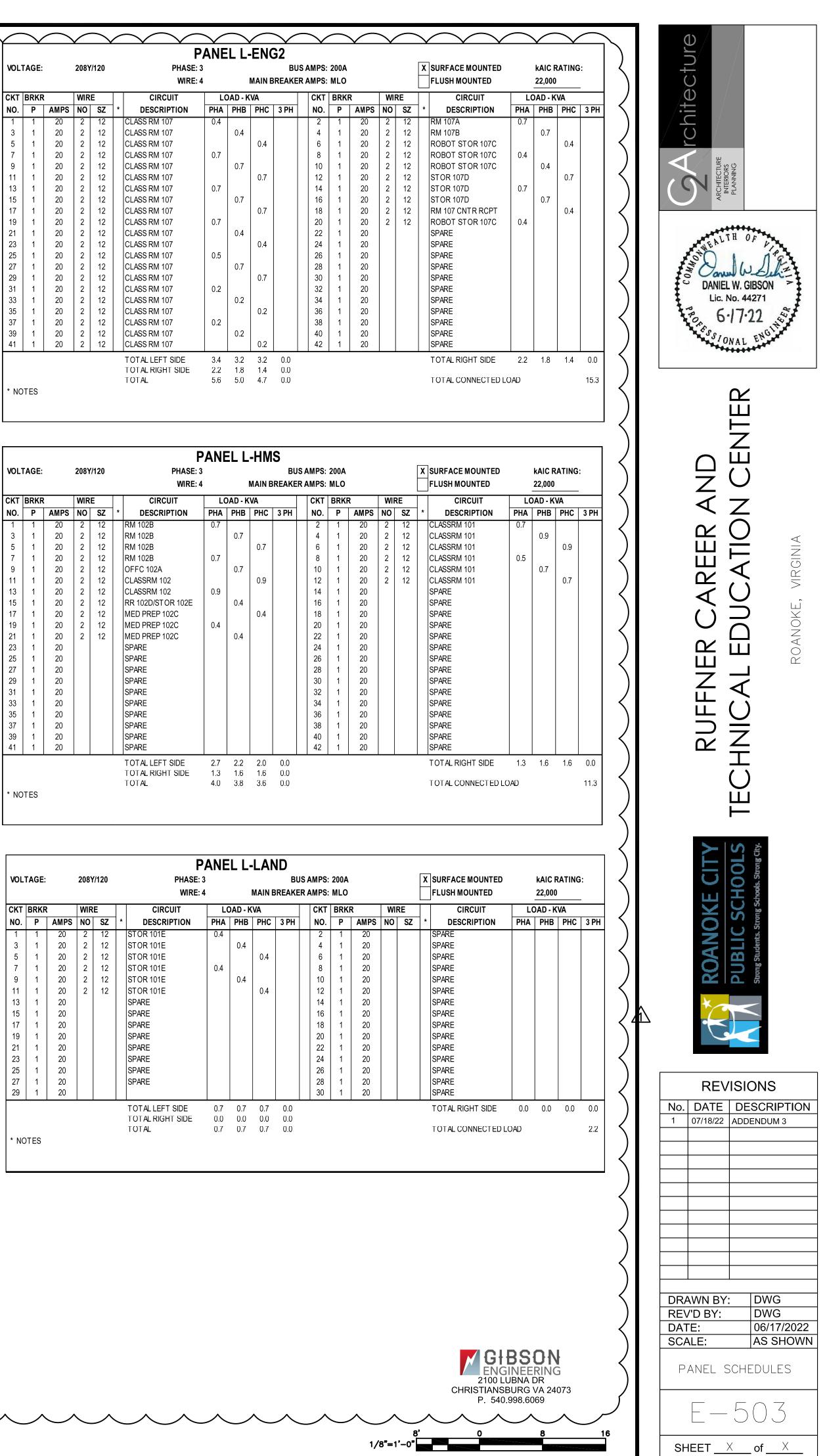


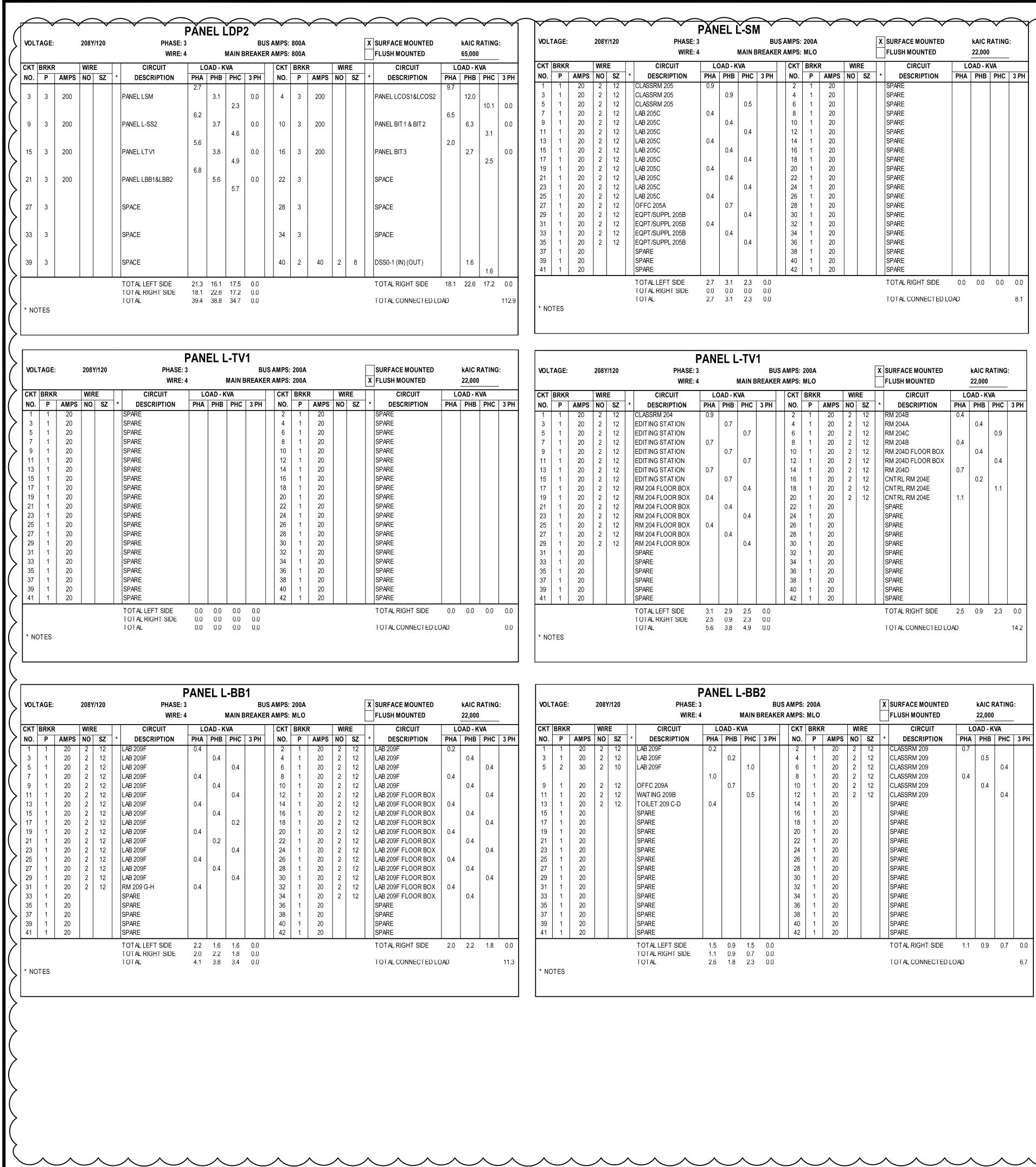
$\searrow$	$\sim$	$\frown$	$\searrow$		$\overline{\mathbf{N}}$		$\sim$	$\frown$	$\checkmark$	$\checkmark$		$\frown$	$\checkmark$	$\frown$	$\sim\sim\sim$	$\sim$	$\frown$		$\checkmark$	$\searrow$	$\overline{}$	$\frown$	$\checkmark$	$\overline{}$		$\overline{\checkmark}$
					P	ANE	LL	-ENC	G1																	
TAGE:		208Y	(/120		PHASE: 3				-	AMPS:	200A				X SURFACE MOUNTED		kAIC R	RATING	:	VOL	TAGE		208Y	'/ <b>120</b>		PHA
					WIRE: 4			MAIN E	BREAKER	AMPS:	MLO				FLUSH MOUNTED		22,000									w
BRKF		WIR	E		CIRCUIT	LC	DAD - K	(VA		СКТ	BRK	र	WI	RE	CIRCUIT	LC	DAD - K	VA		СКТ	BRKI	२	WIR	E		CIRCUIT
Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ		PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	*	DESCRIPTIO
1	20	2	12		MRF RM 100M	0.4				2	1	20	2	10	COMM EQPT					1	1	20	2	12		CLASS RM 107
1	20	2	12		VENDING 100L		0.7			4	1	20	2	10	COMM EQPT					3	1	20	2	12		LASS RM 107
1	20	2	12		TOILET 100K			0.7		6	1	20	2	10	COMM EQPT					5	1	20	2	12		LASS RM 107
1	20	2	12		JAN 100N	0.7				8	1	20	2	10	COMM EQPT					7	1	20	2	12		LASS RM 107
1	20	2	12		OFFC 106A		0.7			10	1	20	2	10	FIRA ALARM					9	1	20	2	12		LASS RM 107
1	20	2	12		STOR 106B			0.7		12	1	20			SPARE					11	1	20	2	12		LASS RM 107
1	20	2	12		CLASSRM 106	0.7				14	1	20			SPARE					13	1	20	2	12		LASS RM 107
1	20	2	12		CLASSRM 106		1.1			16	1	20			SPARE					15	1	20	2	12		LASS RM 107
1	20	2	12		CLASSRM 106			0.5		18	1	20			SPARE					17	1	20	2	12		LASS RM 107
1	20	2	12		CLASSRM 106	0.9				20	1	20			SPARE					19	1	20	2	12		LASS RM 107
1	20	2	12		TOILETS 100 I-J		0.4			22	1	20			SPARE					21	1	20	2	12		LASS RM 107
1	20				SPARE					24	1	20			SPARE					23	1	20	2	12		LASS RM 107
1	20				SPARE					26	1	20			SPARE					25	1	20	2	12		LASS RM 107
1	20				SPARE					28	1	20			SPARE					27	1	20	2	12		LASS RM 107
1	20				SPARE					30	1	20			SPARE					29	1	20	2	12		LASS RM 107
1	20				SPARE					32	1	20			SPARE					31	1	20	2	12		LASS RM 107
1	20				SPARE					34	1	20			SPARE					33	1	20	2	12		LASS RM 107
1	20				SPARE					36	1	20			SPARE					35	1	20	2	12		LASS RM 107
1	20				SPARE					38	1	20			SPARE					37	1	20	2	12		LASS RM 107
1	20				SPARE					40	1	20			SPARE					39	1	20	2	12		LASS RM 107
1	20				SPARE					42	1	20			SPARE					41	1	20	2	12		LASS RM 107
					TOTAL LEFT SIDE	2.7	2.9	2.0	0.0						TOTAL RIGHT SIDE	0.0	0.0	0.0	0.0						Γ	OTAL LEFT SIDE
					TOTAL RIGHT SIDE	0.0	0.0	0.0	0.0																T	OTAL RIGHT SID
					TOTAL	2.7	2.9	2.0	0.0						TOTAL CONNECTED L	OAD			7.6						1	OTAL
TES																				* NC	TES					

:	20	08Y/1	120	PHASE: 3 WIRE: 4		I	MAIN B		S AMPS: R AMPS:					X	SURFACE MOUNTED		kAIC F 22,000	RATING	:
R	W	VIRE		CIRCUIT	LC	DAD - K	VA		СКТ	BRK	२	WI	RE		CIRCUIT	LC	DAD - K	VA	
AMF	S N	10	SZ	* DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH
20	2	2	12	WARMERS	1.4				2	1	20	2	12		KTCHN 105D	0.2			
20	2	2	12	20QT MIXER		0.7			4	1	20	2	12		KTCHN 105D		0.2		
20	2	2	12	20QT MIXER			0.7		6	1	20	2	12		KTCHN 105D			0.2	
20	2	2	12	ANSUL (ITEM #34)	1.7				8	1	20	2	12		CLASSRM 105	0.2			
20	2	2	12	ANSUL (ITEM #34)		1.7			10	1	20	2	12		CLASSRM 105		0.2		
20	2	2	12	ANSUL (ITEM #44)			1.7		12	1	20	2	12		CLASSRM 105			0.2	
20	2	2	12	TOILET 105-B-C					14	1	20	2	12		KTCHN 105D	0.2			
20	2	2	12	OFFC 105A					16	1	20	2	12		KTCHN 105D		0.4		
20				105D RCPT					18	1	20	2	12		KTCHN 105D			0.4	
									20	1	20	2	12		KTCHN 105D	0.4			
20				105D RCPT					22	1	20	2	12		RCPT 105D-I		0.4		
									24	1	20	2	12		RCPT 105G-H			0.4	
20				105D RCPT					26	1	20	2	12		RCPT 105D-E	0.4			
									28	1	20				SPARE				
20				105D RCPT					30	1	20				SPARE				
									32	1	20				SPARE				
20	2	2	12	CLASSRM 105		0.4			34	1	20				SPARE				
20			12	CLASSRM 105			0.4		36	1	20				SPARE				
20			12	CLASSRM 105	0.4				38	1	20				SPARE				
20			12	CLASSRM 105		0.4			40	1	20				SPARE				
20			12	CLASSRM 105			0.9		42	1	20				SPARE				
	I			TOTAL LEFT SIDE	3.5	3.1	3.7	0.0	I					-	TOTAL RIGHT SIDE	1.3	1.1	1.1	0.0
				TOTAL RIGHT SIDE	1.3	1.1	1.1	0.0											0.0
				TOTAL	4.7	4.2	4.8	0.0							TOTAL CONNECTED L	OAD			13.7

VOL	TAGE:		208Y	//120		PHASE: 4 WIRE: 4	
СКТ	BRKR	2	WIR	E	Γ	CIRCUIT	
NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PH
1	1	20	2	12		RM 102B	0
3	1	20	2	12		RM 102B	
5	1	20	2	12		RM 102B	
7	1	20	2	12		RM 102B	0
9	1	20	2	12		OFFC 102A	
11	1	20	2	12		CLASSRM 102	
13	1	20	2	12		CLASSRM 102	0
15	1	20	2	12		RR 102D/ST OR 102E	
17	1	20	2	12		MED PREP 102C	
19	1	20	2	12		MED PREP 102C	0
21	1	20	2	12		MED PREP 102C	
23	1	20				SPARE	
25	1	20				SPARE	
27	1	20				SPARE	
29	1	20				SPARE	
31	1	20				SPARE	
33	1	20				SPARE	
35	1	20				SPARE	
37	1	20				SPARE	
39	1	20				SPARE	
41	1	20				SPARE	
						TOTAL LEFT SIDE	2
						TOTAL RIGHT SIDE	1

	PANEL L-ADMIN																			
GE:		208Y	/120		PHASE: 3	3			BUS	SAMPS:	200A				X	SURFACE MOUNTED		kAIC R	ATING	:
					WIRE: 4	1		MAIN E	BREAKEF	R AMPS:	MLO					FLUSH MOUNTED		22,000		
RKR		WIR	E		CIRCUIT	LC	DAD - K	VA		СКТ	BRK	R	WI	RE		CIRCUIT	LC	AD - K	VA	
P	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	1*	DESCRIPTION	PHA	PHB	PHC	3 PH
1	20	2	12		OFFC 104-P	0.7				2	1	20	2	12		OFFC 103A	0.7			
1	20	2	12		OFFC 104-0		0.7			4	1	20	2	12		STOR 103-E		0.5		
1	20	2	12		OFFC 104-N			0.7		6	1	20	2	12		CLASSRM 103			0.7	
1	20	2	12		OFFC 104-M	0.7				8	1	20	2	12		CLASSRM 103	0.7			
1	20	2	12		OFFC 104-L		0.7			10	1	20	2	12		CLASSRM 103		0.7		
1	20	2	12		CONF 104-B			0.9		12	1	20	2	12		CLASSRM 103			0.9	
1	20	2	12		WRK AREA 104-A	1.1				14	1	20	2	12		CLASSRM 103	0.9			
1	20	2	12		BRKRM 104-C		0.4			16	1	20	2	12		VESTIBULE 100		0.2		
1	20	2	12		BRKRM 104-C			0.4		18	1	20	2	12		VESTIBULE 100			0.2	
1	20	2	12		RM 104-F-G-H-I	0.7				20	1	20	2	12		VESTIBULE 100	0.4			
1	20	2	12		WATER COOLER		0.4			22	1	20	2	12		VESTIBULE 100		0.4		
1	20	2	12		STOR/FILE			0.7		24	1	20	2	12		VESTIBULE 100			0.4	
1	20	2	12		CLINIC 104-J	0.5				26	1	20				SPARE				
1	20	2	12		RM 100-A-B-C		1.2			28	1	20				SPARE				
1	20				SPARE					30	1	20				SPARE				
1	20				SPARE					32	1	20				SPARE				
1	20				SPARE					34	1	20				SPARE				
1	20				SPARE					36	1	20				SPARE				
1	20				SPARE					38	1	20				SPARE				
1	20				SPARE					40	1	20				SPARE				
1	20				SPARE					42	1	20				SPARE				
					TOTAL LEFT SIDE	3.8	3.3	2.7	0.0							TOTAL RIGHT SIDE	2.7	1.8	2.2	0.0
					TOTAL RIGHT SIDE	2.7	1.8	2.2	0.0											
					TOTAL	6.5	5.1	4.9	0.0							TOTAL CONNECTED LC	DAD			16.5
ES																				



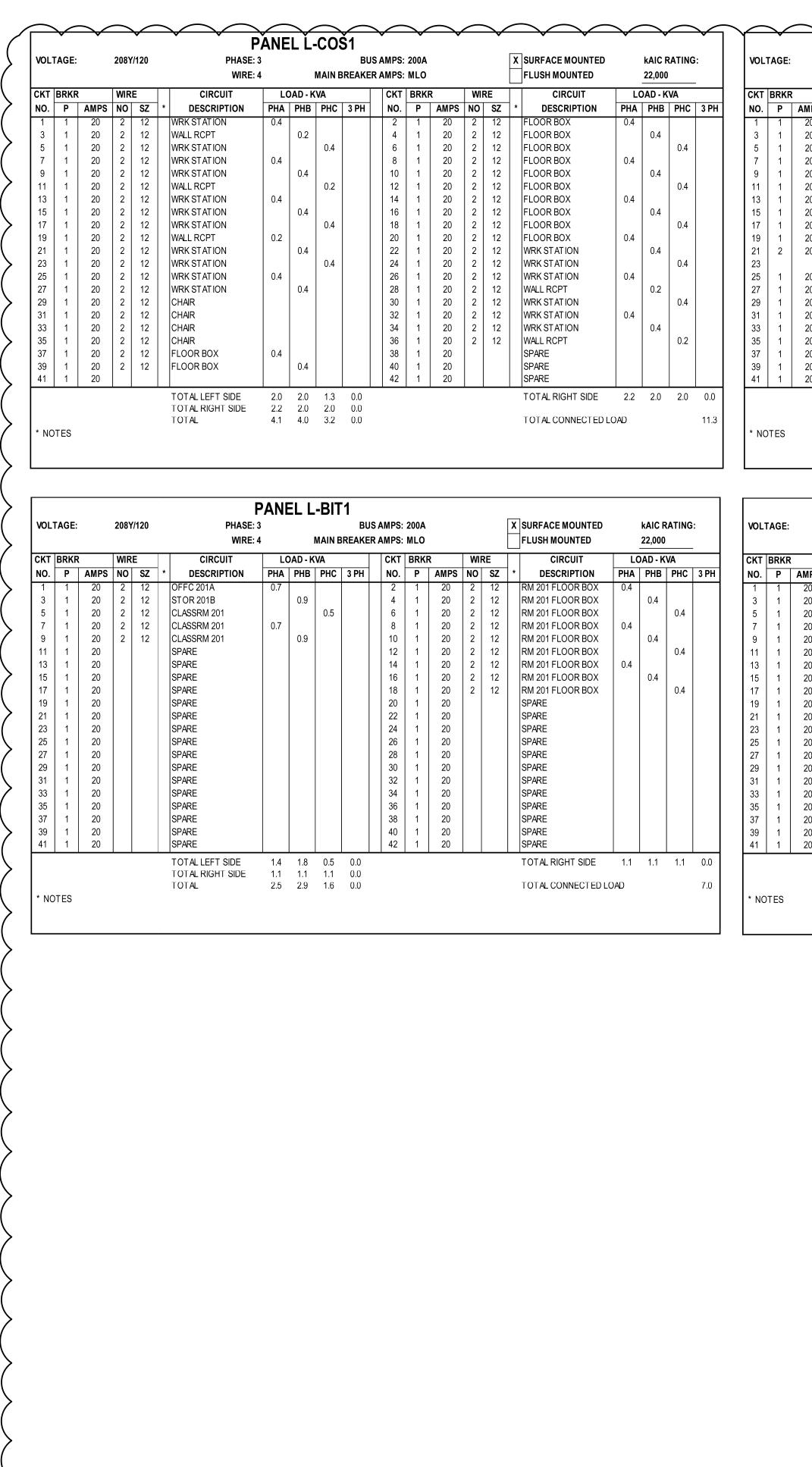


	208Y	//120		PHASE: 3					AMPS:					X SURFACE MOUNTED		kAIC R		:
				WIRE: 4							_					22,000		-
MDC	WIR	E SZ	*	CIRCUIT		DAD - K			CKT	BRK		WIF				DAD - K		
MPS	NO				PHA	PHB	PHC	3 PH	NO.		AMPS	NO	SZ	DESCRIPTION	PHA	PHB	PHC	3 PH
20	2	12		CLASSRM 205	0.9				2		20			SPARE				
20	2	12		CLASSRM 205		0.9	0.5				20			SPARE				
20 20	2 2	12 12		CLASSRM 205 LAB 205C	0.4		0.5		6		20 20			SPARE SPARE				
20	2	12		LAB 205C	0.4	0.4			10		20			SPARE				
20	2	12		LAB 205C		0.4	0.4		12		20			SPARE				
20	2	12		LAB 205C	0.4		0.4		14		20			SPARE				
20	2	12		LAB 205C	0.4	0.4			16		20			SPARE				
20	2	12		LAB 205C		0.4	0.4		18		20			SPARE				
20	2	12		LAB 205C	0.4		0.4		20		20			SPARE				
20	2	12		LAB 205C	0.4	0.4			22		20			SPARE				
20	2	12		LAB 205C			0.4		24		20			SPARE				
20	2	12		LAB 205C	0.4				26		20			SPARE				
20	2	12		OFFC 205A		0.7			28		20			SPARE				
20	2	12		EQPT/SUPPL 205B			0.4		30	1	20			SPARE				
20	2	12		EQPT/SUPPL 205B	0.4				32	1	20			SPARE				
20	2	12		EQPT/SUPPL 205B		0.4			34	1	20			SPARE				
20	2	12		EQPT/SUPPL 205B			0.4		36	1	20			SPARE				
20				SPARE					38	1	20			SPARE				
20				SPARE					40	1	20			SPARE				
20				SPARE					42	1	20			SPARE				
				TOTAL LEFT SIDE	2.7	3.1	2.3	0.0			-			TOTAL RIGHT SIDE	0.0	0.0	0.0	0.0
				TOTAL RIGHT SIDE	0.0	0.0	0.0	0.0										
				TOTAL	2.7	3.1	2.3	0.0						TOTAL CONNECTED L	DAD			8.1

											$\frown$									$\frown$		Ð	/	
	VOLT	AGE:		208Y/12	20	PHASE: Wire:					AMPS:					X SURFACE			kAIC R 22,000	ATING:	$\sum$	cture		
ч	CKT NO.	BRKR P	AMPS		SZ	CIRCUIT * DESCRIPTION	L( PHA	DAD - K PHB	VA		CKT NO.	BRKR	AMPS		SZ	CIR * DESCI	RCUIT	LC PHA	DAD - KV		3 PM	hite		
	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12 12 12 12 12 12 12 12 12 12 12 12	ROOM 200A CORR 200E RM 200 F-G-H RM 200B RM 200C RM 200 D RM 200D RM 200D RM 2001-J ROOM 200A ROOM 200A ROOM 200A ROOM 200A SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	1.0 0.9 0.5 1.0 1.0	0.4 0.4 1.0	0.5 0.7 0.4 1.0		2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 2 2 2 2 2 2 2 2 2	12 12 12 12 12 12 12 12	RM 208A RM 208A RM 208A RM 208A RM 208B RM 208B RM 208B RM 208B VORR 200V SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE		0.5	0.5	0.4		COMPACTINE COMPAC	0 F P 0 F P 0 GIBSON . 44271 7.22	The A Man
0 1 H	* NO	TES				TOTAL RIGHT SIDE TOTAL RIGHT SIDE TOTAL	4.4 1.8 6.2	2.1 1.6 3.7	2.6 2.0 4.6	0.0 0.0 0.0						TOTAL RIG	SHT SIDE	1.8 OAD	1.6	2.0		NER CAREER AND		ROANOKE, VIRGINIA
3 <b>PH</b> 0.0 6.7																							Strong Students, Str	IPTION
								~				~			<b>→</b> 3″=1′	-8^	El 210 CHRISTIA	BIGIN NGIN NSBU 540.99	IEERI NA DF RG VA	NG 24073		RAWN BY: EV'D BY: ATE: CALE: PANEL SC E - [ SHEET X	AS:	G  7/2022 SHOWN ⊥ES

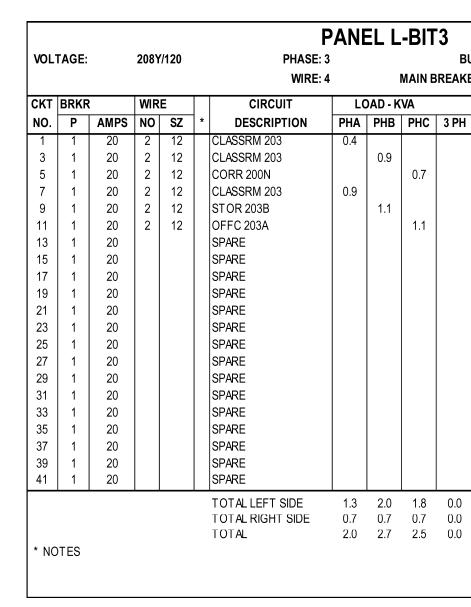
				F	PAN	EL L	TV	1							_				
	208Y	/120		PHASE: 3 WIRE: 4			MAIN B		S AMPS: R AMPS:					X	SURFACE MOUNTED		kAIC R 22,000		):
	WIR	E		CIRCUIT	LC	DAD - K	VA		СКТ	BRK	R	WI	RE			LC	DAD - K	VA	-
MPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	1 *	DESCRIPTION	PHA	PHB	PHC	3 PH
20	2	12		CLASSRM 204	0.9				2	1	20	2	12		RM 204B	0.4			
20	2	12		EDITING STATION		0.7			4	1	20	2	12		RM 204A		0.4		
20	2	12		EDITING STATION			0.7		6	1	20	2	12		RM 204C			0.9	
20	2	12		EDITING STATION	0.7				8	1	20	2	12		RM 204B	0.4			
20	2	12		EDITING STATION		0.7			10	1	20	2	12		RM 204D FLOOR BOX		0.4		
20	2	12		EDITING STATION			0.7		12	1	20	2	12		RM 204D FLOOR BOX			0.4	
20	2	12		EDITING STATION	0.7				14	1	20	2	12		RM 204D	0.7			
20	2	12		EDITING STATION		0.7			16	1	20	2	12		CNTRL RM 204E		0.2		
20	2	12		RM 204 FLOOR BOX			0.4		18	1	20	2	12		CNTRL RM 204E			1.1	
20	2	12		RM 204 FLOOR BOX	0.4				20	1	20	2	12		CNTRL RM 204E	1.1			
20	2	12		RM 204 FLOOR BOX		0.4			22	1	20				SPARE				
20	2	12		RM 204 FLOOR BOX			0.4		24	1	20				SPARE				
20	2	12		RM 204 FLOOR BOX	0.4				26	1	20				SPARE				
20	2	12		RM 204 FLOOR BOX		0.4			28	1	20				SPARE				
20	2	12		RM 204 FLOOR BOX			0.4		30	1	20				SPARE				
20				SPARE					32	1	20				SPARE				
20				SPARE					34	1	20				SPARE				
20				SPARE					36	1	20				SPARE				
20				SPARE					38	1	20				SPARE				
20				SPARE					40	1	20				SPARE				
20				SPARE					42	1	20				SPARE				
				TOTAL LEFT SIDE	3.1	2.9	2.5	0.0	-						TOTAL RIGHT SIDE	2.5	0.9	2.3	0.0
				TOTAL RIGHT SIDE	2.5	0.9	2.3	0.0											
				TOTAL	5.6	3.8	4.9	0.0							TOTAL CONNECTED LO	DAD			14.2

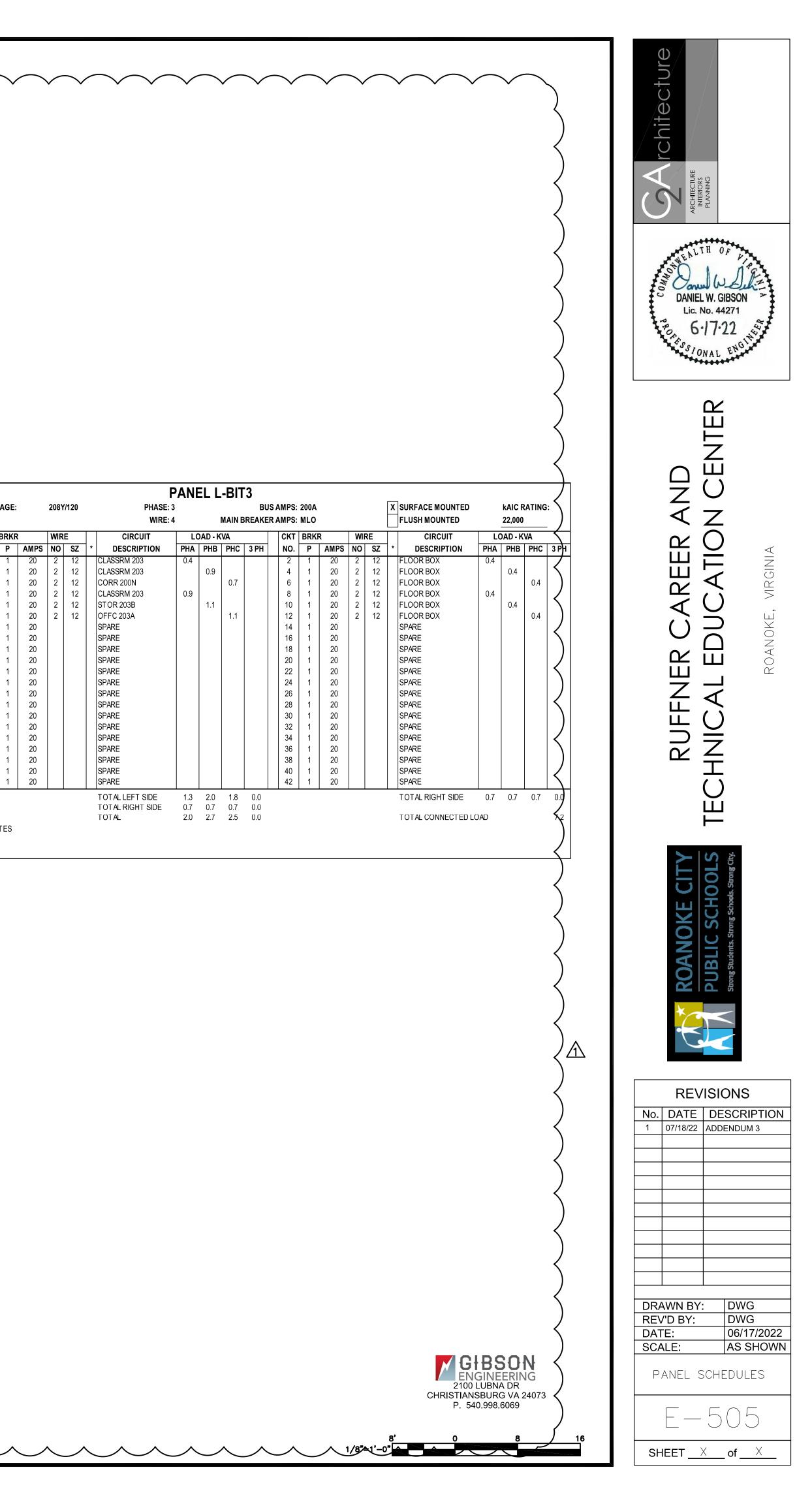
			PANEL L-BB2																	
	208Y	//120		PHASE: WIRE:	-	I	MAIN B	BU REAKE	IS AMP R AMP						X	SURFACE MOUNTED		kAIC R 22,000		): -
	WIR	E		CIRCUIT	LC	DAD - K	VA		CK	т	BRKF	2	WI	RE		CIRCUIT	LC	DAD - K	VA	
AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	N	). [	Ρ	AMPS	NO	SZ	1 *	DESCRIPTION	PHA	PHB	PHC	3 PH
20	2	12		LAB 209F	0.2				2	2	1	20	2	12		CLASSRM 209	0.7			
20	2	12		LAB 209F		0.2			4	.	1	20	2	12		CLASSRM 209		0.5		
30	2	10		LAB 209F			1.0		6	;	1	20	2	12		CLASSRM 209			0.4	
					1.0				8		1	20	2	12		CLASSRM 209	0.4			
20	2	12		OFFC 209A		0.7			1(	)	1	20	2	12		CLASSRM 209		0.4		
20	2	12		WAIT ING 209B			0.5		12	2	1	20	2	12		CLASSRM 209			0.4	
20	2	12		TOILET 209 C-D	0.4				14	4	1	20				SPARE				
20				SPARE					16	3	1	20				SPARE				
20				SPARE					18	3	1	20				SPARE				
20				SPARE					20	)	1	20				SPARE				
20				SPARE					22	2	1	20				SPARE				
20				SPARE					24	4	1	20				SPARE				
20				SPARE					26	3	1	20				SPARE				
20				SPARE					28	3	1	20				SPARE				
20				SPARE					30	)	1	20				SPARE				
20				SPARE					32	2	1	20				SPARE				
20				SPARE					34	1	1	20				SPARE				
20				SPARE					36	3	1	20				SPARE				
20				SPARE					38	3	1	20				SPARE				
20				SPARE					4		1	20				SPARE				
20				SPARE					42	·	1	20				SPARE				
				TOTAL LEFT SIDE TOTAL RIGHT SIDE	1.5	0.9	1.5 0.7	0.0	·							TOTAL RIGHT SIDE	1.1	0.9	0.7	0.0
				TOTAL RIGHT SIDE	2.6	1.8	2.3	0.0								TOTAL CONNECTED L	OAD			6.7

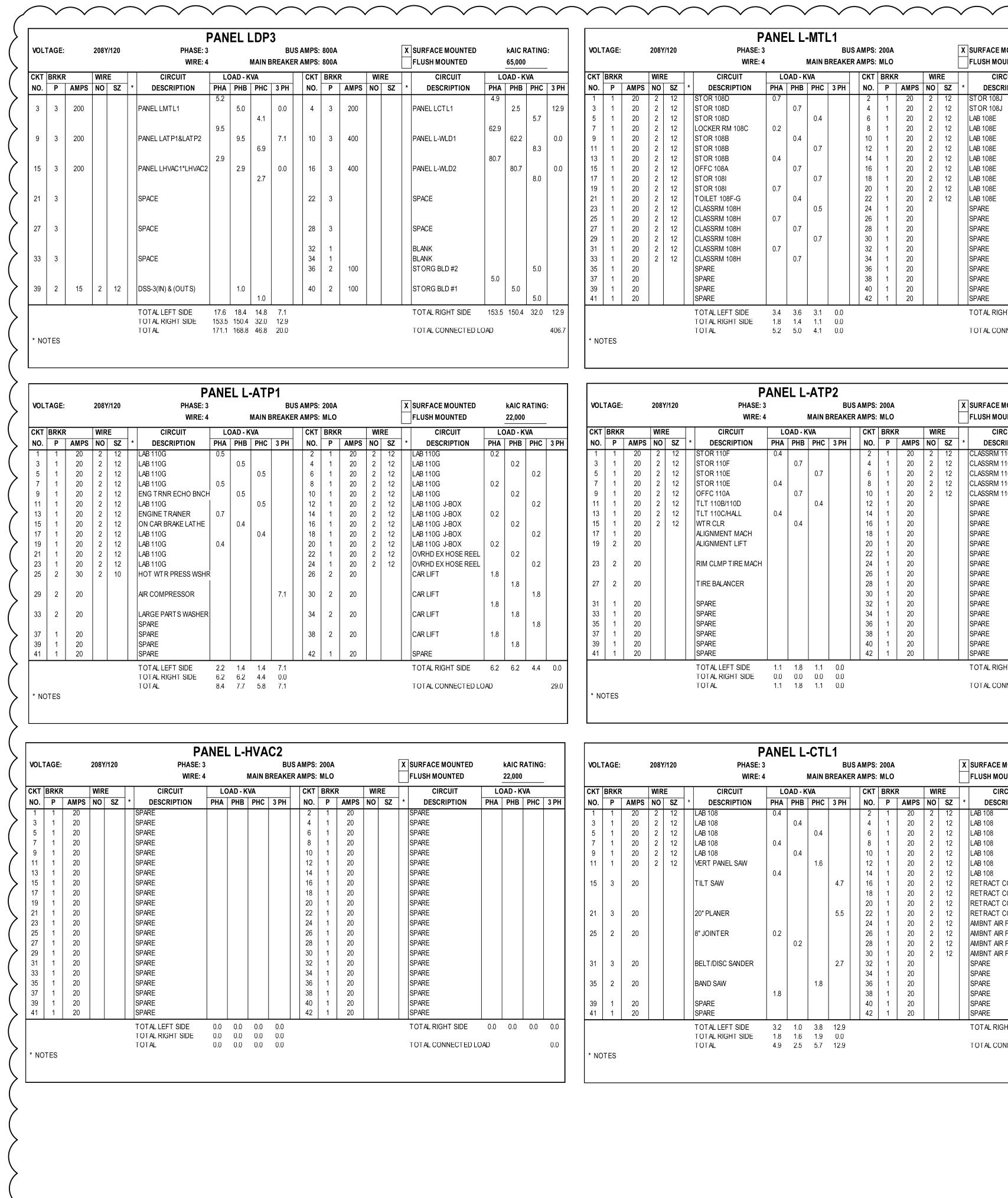


	208Y	/120		PHASE: 3 WIRE: 4		I	MAIN B		S AMPS: R AMPS:					X	SURFACE MOUNTED		kAIC R 22,000		<b>;</b> : -
	WIR	E		CIRCUIT	LC	DAD - K	VA		CKT	BRK	R	WIF	RE		CIRCUIT	LC	DAD - K	VA	
AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH
20	2	12		STORAGE 206G	0.7				2	1	20	2	12		OFFC 207A	0.5			
20	2	12		STORAGE 206H		0.7			4	1	20	2	12		EQP/SUPPL 207B		0.7		
20	2         12         STOR/PREP 2061         0.2           2         12         STOR/PREP 2061         0.4								6	1	20	2	12		CLASSRM 207			0.7	
20	2	12					8	1	20	2	12		CLASSRM 207	0.7					
20	2	12		CLASSRM 206			10	1	20	2	12		CLASSRM 207		0.9				
20	2	12		CLASSRM 206	0.7		12	1	20	2	12		CLASSRM 207			0.9			
20	2	12		CLASSRM 206			14	1	20	2	12		CLASSRM 207	0.7					
20	2	12		CLASSRM 206		0.9			16	1	20	2	12		FLOOR BOX		0.4		
20	2	12		OFFC 206A			0.7		18	1	20	2	12		FLOOR BOX			0.4	
20	2	12		HALL RCPT	0.2				20	1	20	2	12		FLOOR BOX	0.4			
20	2	12		HALL RCPT					22	1	20	2	12		FLOOR BOX		0.4		
									24	1	20	2	12		CORR 2000			,72	
20	2	12		206B-C-D	0.5				26	1	30	2	10		WTR CLR	0.5			
20	2	12		RECEP/WTNG 206E		0.5			28	1	20	2	12		CORR 200S		0.4		
20				SPARE			0.4		30	1	20	2	12		CORR 200U			0.4	
20				SPARE					32	1	20				SPARE				
20				SPARE					34	1	20				SPARE				
20				SPARE					36	1	20				SPARE				
20				SPARE					38	1	20				SPARE				
20				SPARE					40	2	30	2	10		HWH-7		2.5		
20				SPARE					42									2.5	
	· 1			TOTAL LEFT SIDE	2.7	2.9	2.0	0.0				- 1			TOTAL RIGHT SIDE	2.8	5.2	4.8	0.0
				TOTAL RIGHT SIDE	2.8	5.2	4.8	0.0											
				TOTAL	5.5	8.1	6.8	0.0							TOTAL CONNECTED LO	DAD			20.4

	208Y	/120		PHASE: : WIRE: 4		l	MAIN E	BU BREAKE	 MPS: MPS:					X	SURFACE MOUNTED		kAIC R 22,000		i: -
	WIR	E		CIRCUIT	LC	DAD - K	VA		СКТ	BRK	ł	WI	RE		CIRCUIT	LC	DAD - K	VA	
AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Ρ	AMPS	NO	SZ	1*	DESCRIPTION	PHA	PHB	PHC	3 PH
20	2	12		OFFC 202A	1.1				2	1	20	2	12		RM 202 FLOOR BOX	0.4			
20	2	12		STOR 202B		1.1			4	1	20	2	12		RM 202 FLOOR BOX		0.4		
20	2	12		CLASSRM 202			0.5		6	1	20	2	12		RM 202 FLOOR BOX			0.4	
20	2	12		CLASSRM 202	1.1				8	1	20	2	12		RM 202 FLOOR BOX	0.4			
20	2	12		CLASSRM 202		0.9			10	1	20	2	12		RM 202 FLOOR BOX		0.4		
20	2	12		CLASSRM 202			0.2		12	1	20	2	12		RM 202 FLOOR BOX			0.4	
20	2	12		CORR 200Q	0.7				14	1	20	2	12		RM 202 FLOOR BOX	0.4			
20	2	12		PNL RCPT		0.4			16	1	20	2	12		RM 202 FLOOR BOX		0.4		
20				SPARE					18	1	20				SPARE				
20				SPARE					20	1	20				SPARE				
20				SPARE					22	1	20				SPARE				
20				SPARE					24	1	20				SPARE				
20				SPARE					26	1	20				SPARE				
20				SPARE					28	1	20				SPARE				
20				SPARE					30	1	20				SPARE				
20				SPARE					32	1	20				SPARE				
20				SPARE					34	1	20				SPARE				
20				SPARE					36	1	20				SPARE				
20				SPARE					38	1	20				SPARE				
20				SPARE					40	1	20				SPARE				
20				SPARE					42	1	20				SPARE				
				TOTAL LEFT SIDE	2.9	2.3	0.7	0.0							TOTAL RIGHT SIDE	1.1	1.1	0.7	0.0
				TOTAL RIGHT SIDE	1.1	1.1	0.7	0.0											
				TOTAL	4.0	3.4	1.4	0.0							TOTAL CONNECTED L	DAD			8.8







					P	ANE	LL	-MT	L1														
GE:		2081	(/120		PHASE: 3	3			BU	S AMPS:	200A				X	SURFACE MOUNTED		kAIC F	RATING	i:	VOLI	AGE:	
					WIRE: 4	4		MAIN E	BREAKE	R AMPS:	MLO					FLUSH MOUNTED		22,000					
RKR		WIR	E		CIRCUIT	LC	DAD - K	(VA		CKT	BRK	R	WI	RE	Τ	CIRCUIT	LC	DAD - K	VA		СКТ	BRKF	
P	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Ρ	AMF
1	20	2	12		STOR 108D	0.7				2	1	20	2	12		STOR 108J	0.7				1	1	20
1	20	2	12		STOR 108D		0.7			4	1	20	2	12		STOR 108J		0.4			3	1	20
1	20	2	12		STOR 108D			0.4		6	1	20	2	12		LAB 108E			0.4		5	1	20
1	20	2	12		LOCKER RM 108C	0.2				8	1	20	2	12		LAB 108E	0.4				7	1	20
1	20	2	12		STOR 108B		0.4			10	1	20	2	12		LAB 108E		0.4			9	1	20
1	20	2	12		STOR 108B			0.7		12	1	20	2	12		LAB 108E			0.4		11	1	20
1	20	2	12		STOR 108B	0.4				14	1	20	2	12		LAB 108E	0.4				13	1	20
1	20	2	12		OFFC 108A		0.7			16	1	20	2	12		LAB 108E		0.4			15	1	20
1	20	2	12		STOR 108I			0.7		18	1	20	2	12		LAB 108E			0.4		17	1	20
1	20	2	12		STOR 108I	0.7				20	1	20	2	12		LAB 108E	0.4				19	1	20
1	20	2	12		TOILET 108F-G		0.4			22	1	20	2	12		LAB 108E		0.4			21	1	20
1	20	2	12		CLASSRM 108H			0.5		24	1	20				SPARE					23	1	20
1	20	2	12		CLASSRM 108H	0.7				26	1	20				SPARE					25	1	20
1	20	2	12		CLASSRM 108H		0.7			28	1	20				SPARE					27	1	20
1	20	2	12		CLASSRM 108H			0.7		30	1	20				SPARE					29	1	20
1	20	2	12		CLASSRM 108H	0.7				32	1	20				SPARE					31	1	20
1	20	2	12		CLASSRM 108H		0.7			34	1	20				SPARE					33	1	20
1	20				SPARE					36	1	20				SPARE					35	1	20
1	20				SPARE					38	1	20				SPARE					37	1	20
1	20				SPARE					40	1	20				SPARE					39	1 1	20 20
1	20				SPARE					42	1	20				SPARE					41	I	20
					TOTAL LEFT SIDE	3.4	3.6	3.1	0.0							TOTAL RIGHT SIDE	1.8	1.4	1.1	0.0			
					TOTAL RIGHT SIDE	1.8	1.4	1.1	0.0														
					TOTAL	5.2	5.0	4.1	0.0							TOTAL CONNECTED LC	DAD			14.4	* NO	тер	
ES																						159	

X SURFACE MOUNTED kAIC RATING: FLUSH MOUNTED 65,000	PANEL L-MTL1         VOLTAGE:       208Y/120       PHASE: 3       BUS AMPS: 200A         WIRE: 4       MAIN BREAKER AMPS: MLO	X SURFACE MOUNTED kAIC RATING: FLUSH MOUNTED 22,000	PANEL L-HVAC1         VOLTAGE:       208Y/120       PHASE: 3       BUS AMPS: 200A       X SURFACE MOUNTED       KAIC RATING:         WIRE: 4       MAIN BREAKER AMPS: MLO       FLUSH MOUNTED       22,000
WIRE AMPSCIRCUIT DESCRIPTIONLOAD-KVA200SZ*DESCRIPTIONPHAPHBPHC3 PH200IIIPANEL LCTL14.92.55.712.9400IIIPANEL L-WLD162.962.20.08.30.0400IIIPANEL L-WLD280.780.78.00.0400IIISPACEI80.78.01.1400IIISPACEII1.1100IIISPACEIII100IIISTORG BLD #25.05.05.0100IIISTORG BLD #1I53.5150.432.012.9101IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	CKT         BRK-         WIF         I         CIRCUIT         LOAD-KV         CR         BRK-         WIF         MO           1         1         20         2         12         STOR 108D         0.7         A         3 PH         A         3 PH         VIC         3 PH         VIC         4         1         20         2         12         3 TOR 108D         0.7         A         A         6         1         20         2         12         3 TOR 108D         0.7         A         A         6         1         20         2         12         12         3 TOR 108D         0.4         A         6         1         20         2         12	STOR 108J       0.7         STOR 108J       0.4         LAB 108E       0.4	KN         WRE         USAD         CRCUT         LOAD - KVA         CKT         BRK         WRE         CRCUT         DESCRIPTION         PIA         PHB         PHC         3 PH           1         1         20         2         12         CLASSRM 210         0.4         0.5         4         1         20         2         12         LAB 210B         0.5         0.4         1         20         2         12         LAB 210B         0.4         0.4         0.4         0.5         4         1         20         2         12         LAB 210B         0.4
X         SURFACE MOUNTED FUSH MOUNTED         SURFACE MOUNTED 200         SURFACE MOUNTED         SURFACE MOUNTED           MPS         NO         SZ         *         CIRCUIT         LOAD - KVA           MPS         NO         SZ         *         DESCRIPTION         PHA         PHB         PHC         3 PH           20         2         12         LAB 110G         0.2	PANEL L-ATP2           YOLTAGE:         208 YH20         PHASE: 3 WIRE: 4         BUS AMPS: 208           YOLTAGE:         208 YH20         PHASE: 3 WIRE: 4         SUS AMPS: 206           YOLTAGE:         208 YH20         PHASE: 3 WIRE: 4         CIT MID BEAKER AMPS: MO           YOL         PAMPS         NO         S2         *         OUT           1         1         20         2         12         STOR 110F         0.4         0.7         0.4         4         1         20         2         12           7         1         20         2         12         STOR 110E         0.4         0.7         0.4         1         20         2         12           7         1         20         2         12         STOR 110E         0.4         0.7         4         1         20         2         12           1         1         20         2         12         TLT 110E/110D         0.7         0.4         18         1         20         1           1         1         20         1         20	CLASSRM 110 CLASSRM 110 CLASSRM 110 CLASSRM 110 CLASSRM 110	
X       SURFACE MOUNTED       KAIC RATING:         FLUSH MOUNTED       2,000         MRE       CIRCUIT       LOAD - KVA         MPS       NO       SZ       *       DESCRIPTION       PHA       PHB       PHC       3 PH         20       I       SPARE       I       SPARE       I	PAREL L-CTL1         MOLTAGE:       2087/12       PEAS: 3       EUSAMPS: 203         Mai:       Discrete and states       Main Breakter and states       Main Breakter and states         No.       PAMPS       No.       PA       PAMPS       No.       PA       PAMPS       No.       PA       PAMPS       No.       PA	LAB 108       0.4         RET RACT CORD REEL       0.2         AMBNT AIR FILT RAT N       0.5         AMBNT AIR FILT RAT N       0.5         AMBNT AIR FILT RAT N       0.5	
	·····		Stores and a store of the store

			PANEL L-ATP2																		
E:		208Y	/120		PHASE: 3 WIRE: 4			MAIN E	BL BREAKE			200A MLO				X	SURFACE MOUNTED		kAIC R 22,000		i:
(R		WIR	E		CIRCUIT	LC	DAD - K	VA			СКТ	BRK	2	WIF	RE			LC	DAD - K	VA	-
	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH	1	NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH
_	20	2	12		STOR 110F	0.4					2	1	20	2	12		CLASSRM 110				
	20	2	12		STOR 110F		0.7				4	1	20	2	12		CLASSRM 110				
	20	2	12		STOR 110E			0.7			6	1	20	2	12		CLASSRM 110				
	20	2	12		STOR 110E	0.4					8	1	20	2	12		CLASSRM 110				
	20	2	12		OFFC 110A		0.7				10	1	20	2	12		CLASSRM 110				
	20	2	12		TLT 110B/110D			0.4			12	1	20				SPARE				
	20	2	12		TLT 110C/HALL	0.4					14	1	20				SPARE				
	20	2	12		WTR CLR		0.4				16	1	20				SPARE				
	20				ALIGNMENT MACH						18	1	20				SPARE				
	20				ALIGNMENT LIFT						20	1	20				SPARE				
											22	1	20				SPARE				
	20				RIM CLMP TIRE MACH						24	1	20				SPARE				
											26	1	20				SPARE				
	20				TIRE BALANCER						28	1	20				SPARE				
											30	1	20				SPARE				
	20				SPARE						32	1	20				SPARE				
	20				SPARE						34	1	20				SPARE				
	20				SPARE						36	1	20				SPARE				
	20				SPARE						38	1	20				SPARE				
	20				SPARE						40	1	20				SPARE				
	20				SPARE						42	1	20				SPARE				
		<u> </u>		1	TOTAL LEFT SIDE	1.1	1.8	1.1	0.0					<u> </u>		1	TOTAL RIGHT SIDE	0.0	0.0	0.0	0.0
					TOTAL RIGHT SIDE	0.0	0.0	0.0	0.0												0.0
					TOTAL	1.1	1.8	1.1	0.0								TOTAL CONNECTED LO	DAD			4.0

E:		208Y	// 20	F PHASE:	ANE	LL	-CTI		S AMPS:	2004					SURFACE MOUNTED		kAIC R	ATINO	
		2001	/120	WIRE:			MAIN E		S AMPS: R AMPS:					<b> ^</b>	FLUSH MOUNTED		22,000		:
KR		WIR	E	CIRCUIT		DAD - K	VA		СКТ	BRKF	र	WI	RE				 DAD - K		
	AMPS	NO	SZ	* DESCRIPTION	PHA	PHB	PHC	3 PH	NO.	Р	AMPS	NO	SZ	*	DESCRIPTION	PHA	PHB	PHC	3 PH
	20	2	12	LAB 108	0.4				2	1	20	2	12		LAB 108	0.4			
	20	2	12	LAB 108		0.4			4	1	20	2	12		LAB 108		0.4		
	20	2	12	LAB 108			0.4		6	1	20	2	12		LAB 108			0.4	
	20	2	12	LAB 108	0.4				8	1	20	2	12		LAB 108	0.4			
	20	2	12	LAB 108		0.4			10	1	20	2	12		LAB 108		0.4		
	20	2	12	VERT PANEL SAW			1.6		12	1	20	2	12		LAB 108			0.4	
					0.4				14	1	20	2	12		LAB 108	0.4			
	20			TILT SAW				4.7	16	1	20	2	12		RETRACT CORD REEL		0.2		
									18	1	20	2	12		RETRACT CORD REEL			0.2	
									20	1	20	2	12		RETRACT CORD REEL	0.2			
	20			20" PLANER				5.5	22	1	20	2	12		RETRACT CORD REEL		0.2		
									24	1	20	2	12		AMBNT AIR FILTRATN			0.5	
	20			8" JOINTER	0.2				26	1	20	2	12		AMBNT AIR FILTRATN	0.5			
						0.2			28	1	20	2	12		AMBNT AIR FILTRATN		0.5		
									30	1	20	2	12		AMBNT AIR FILTRATN			0.5	
	20			BELT/DISC SANDER				2.7	32	1	20				SPARE				
									34	1	20				SPARE				
	20			BAND SAW			1.8		36	1	20				SPARE				
					1.8				38	1	20				SPARE				
	20			SPARE					40	1	20				SPARE				
	20			SPARE					42	1	20				SPARE				
				TOTAL LEFT SIDE	3.2	1.0	3.8	12.9							TOTAL RIGHT SIDE	1.8	1.6	1.9	0.0
				TOTAL RIGHT SIDE	1.8	1.6	1.9	0.0											
				TOTAL	4.9	2.5	5.7	12.9							TOTAL CONNECTED LC	)AD			26.1
3																			



	0007/11			AMDO. 4004				0000/// 00				400 4			
VOLTAGE:	208Y/120	PHASE WIRE CIRCUIT			X SURFACE MOUNTED FLUSH MOUNTED MIRE CIRCUIT	KAIC RATING: 22,000 LOAD - KVA	VOLTAGE:	208Y/120	PHASE WIRE CIRCUIT		BUS AMPS: BREAKER AMPS:	MLO	X SURFACE MOU FLUSH MOUNT	TED <u>22</u>	IC RATING: 000 
	AMPS         NO         SZ           20         2         12	DESCRIPTIONCLASSRM 109CLASSRM 109CLASSRM 109CLASSRM 109CLASSRM 109CLASSRM 109CLASSRM 109TOILET 109B-COFFC 109ALAB 109H J-BOXIRON WORKERLAB 109H J-BOXBAND SAWGRINDERDUST COLLECTORLAB 109H J-BOXSTOR 109FSTOR 109FSTOR 109ELOCKERRM 109DSPARESPARESPARE	$ \begin{array}{c c c c c c } \hline PHA & PHB & PHC & 3 PH \\ \hline 0.7 & 0.9 & & & & \\ 0.7 & 0.9 & & & & \\ 0.7 & 0.9 & & & & \\ 0.7 & 0.4 & & & & \\ 0.4 & 0.4 & & & & \\ 0.7 & 0.2 & & & & \\ 0.2 & & & & & & \\ 0.2 & 0.2 & & & & \\ 0.2 & 0.2 & & & & \\ 0.2 & 0.2 & & & & \\ 0.2 & 0.2 & & & & \\ 0.4 & 0.4 & & & & \\ 0.4 & 0.4 & & & & \\ 0.4 & 0.7 & & & & \\ \end{array} $		OSZ*DESCRIPTIONBOOTH 1BOOTH 1BOOTH 2BOOTH 2BOOTH 3BOOTH 3BOOTH 4BOOTH 4BOOTH 5BOOTH 5BOOTH 6SPARESPARESPARE	$\begin{array}{c c c c c c } \mathbf{PHA} & \mathbf{PHB} & \mathbf{PHC} & 3 \ \mathbf{PH} \\ \hline 10.0 & & & & \\ 10.0 & & & \\ 10.0 & $	NO.         P         AN           1         2         5           3         5         1         2           7         2         5           9         1         1         2           9         1         1         2         5           17         1         2         5         1           13         2         5         1         2         5           17         1         2         5         2         5           21         23         1         2         5         2         5           27         29         1         2         5         3 <td< td=""><td></td><td>*         DESCRIPTION           BOOTH 7         BOOTH 7           BOOTH 8         BOOTH 8           BOOTH 9         BOOTH 9           BOOTH 10         BOOTH 11           BOOTH 11         BOOTH 12           BOOTH 12         SPARE           SPARE         SPARE</td><td>PHA         PHB         PHC           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0</td><td>3 PH         NO.           2         4           6         8           10         12           14         18           20         22           14         18           20         22           24         6           30         32           34         36           38         40           40         42</td><td>P         AMPS         NO           2         20         1           1         20         2           1         20         2           1         20         2           1         20         2           1         20         2           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1</td><td>SZ*DESCRIPTSZ*BOOTH 13BOOTH 13BOOTH 13BOOTH 14BOOTH 14BOOTH 14BELT/DISC SANSPARE</td><td>FION         PHA         P           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           NDER         0.7         0</td><td>HB         PHC         3 PH           0.0         1.0         1.0           0.0         1.0         1.0           77         1.0         1.0</td></td<>		*         DESCRIPTION           BOOTH 7         BOOTH 7           BOOTH 8         BOOTH 8           BOOTH 9         BOOTH 9           BOOTH 10         BOOTH 11           BOOTH 11         BOOTH 12           BOOTH 12         SPARE           SPARE         SPARE	PHA         PHB         PHC           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0           10.0         10.0         1.0	3 PH         NO.           2         4           6         8           10         12           14         18           20         22           14         18           20         22           24         6           30         32           34         36           38         40           40         42	P         AMPS         NO           2         20         1           1         20         2           1         20         2           1         20         2           1         20         2           1         20         2           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1           1         20         1	SZ*DESCRIPTSZ*BOOTH 13BOOTH 13BOOTH 13BOOTH 14BOOTH 14BOOTH 14BELT/DISC SANSPARE	FION         PHA         P           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           10.0         1         1           NDER         0.7         0	HB         PHC         3 PH           0.0         1.0         1.0           0.0         1.0         1.0           77         1.0         1.0
			2.9         2.2         2.3         0.0           60.0         60.0         6.0         0.0           62.9         62.2         8.3         0.0		SPARE	60.0 60.0 6.0 0.0 DAD 133.4					42				0.7 2.0 0.0 169.4
							NOTES								

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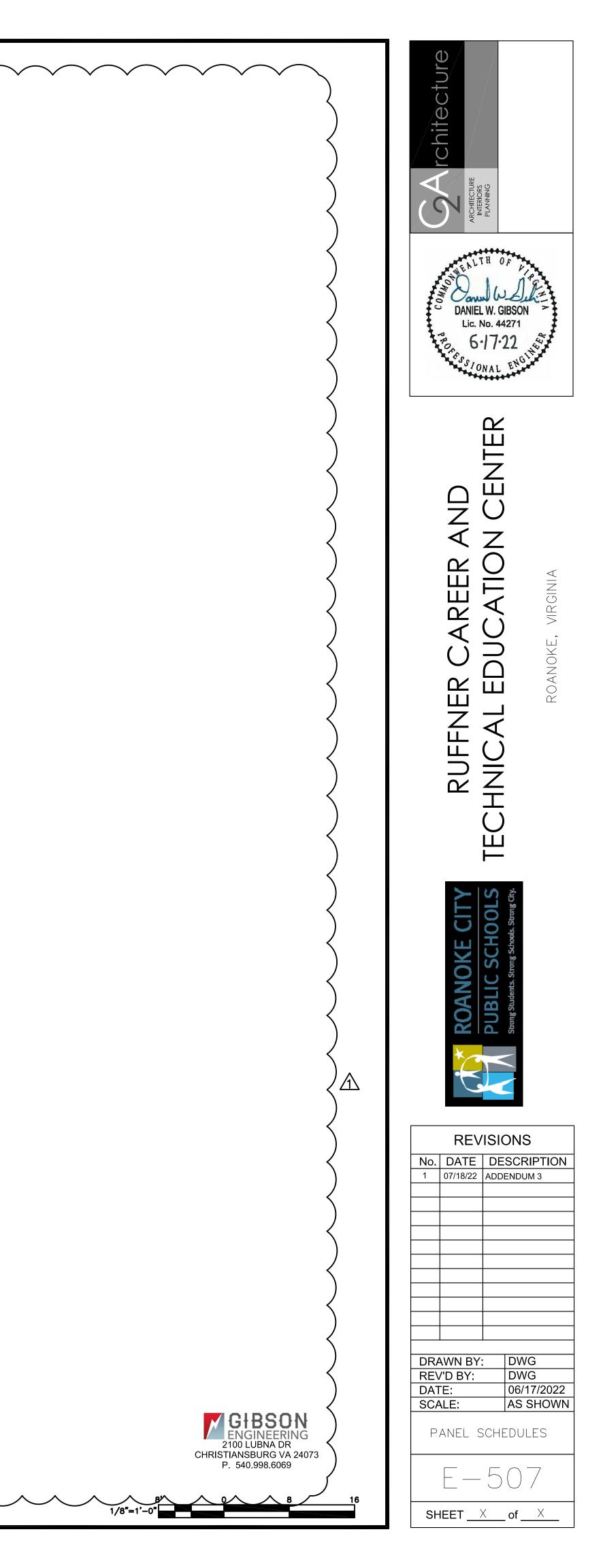
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CKTBRKRWIRENO.PAMPSNOSZ*	
3 3 50 BC	1 3 3
5	7
11 13	11 13
15 3 50 BC	17
19     8       21     3       23     50	21 3 23
25 27 3 50 BC	25 27 3
29 31 33 50 BC	31
35 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	35
39 3 50 BC 41 BC	
* NOTES	* NOTE

GE:		208Y/120	PHASE: WIRE:					SAMPS:				-	X SURFACE MOUNTED		kAIC RA 22,000	TING	:	VOL	TAGE:		208Y	//120	PHASE WIRE	
KR		WIRE			OAD - M				BRK		WI				DAD - KV	<u>^</u>		СКТ	BRKF	2	WIR	E	CIRCUIT	
	AMPS		* DESCRIPTION				3 PH	NO.	P	AMPS		SZ	* DESCRIPTION	PHA			3 PH	NO.	P	AMPS			* DESCRIPTION	PHA
3	50		BOOTH 8 WELDER				30.0	4	3	60			PLASMACUTTER				21.2	1 3 5	3	50			BOOTH 1 WELDER	
3	50		BOOTH 9 WELDER				30.0	8 10 12	1 1 1	20 20 20			SPARE SPARE SPARE					7 9 11	3	50			BOOTH 2 WELDER	
3	50		BOOTH 10 WELDER				30.0	14 16 18	1   1   1	20 20 20			SPARE SPARE SPARE					13 15 17	3	50			BOOTH 3 WELDER	
3	50		BOOTH 11 WELDER				30.0	20 22 24	1   1   1	20 20 20			SPARE SPARE SPARE					19 21 23 25	3	50			BOOTH 4 WELDER	
3	50		BOOTH 12 WELDER				30.0	26 28 30	1	20 20 20			SPARE SPARE SPARE SPARE					23 27 29 31	3	50			BOOTH 5 WELDER	
3	50		BOOTH 13 WELDER				30.0	32 34 36 38	1	20 20 20 20			SPARE SPARE SPARE SPARE					33 35 37	3	50			BOOTH 6 WELDER	
3	50		BOOTH 14 WELDER				30.0	40 42	1 1 1	20 20 20			SPARE SPARE SPARE					39 41	3	50			BOOTH 7 WELDER	
S			TOTAL LEFT SIDE TOTAL RIGHT SIDE TOTAL	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	210.0 21.2 231.2						TOTAL RIGHT SIDE	0.0 )AD	0.0	0.0	21.2 231.2	* NC	DTES				TOTAL LEFT SIDE TOTAL RIGHT SIDE TOTAL	0.0 0.0 0.0
																		VOLT	AGE:		208Y/ <sup>;</sup>	120	NE PHASE: WIRE:	
																		СКТ	BRKR		WIRE		CIRCUIT	L(
																		<b>NO</b> .		<b>AMPS</b> 100		<b>SZ</b> <sup>3</sup>	DESCRIPTION CAR CHARGER	<b>PHA</b> 8.3
																		3 5 7	2	100	3	3	CAR CHARGER	8.3
																		9	2	100	3	3	CAR CHARGER	

11

15

19

23

27

25 2 100

 29
 1
 20

 31
 1
 20

 33
 1
 20

35 1 20

37 1 20

39 1 20

\* NOTES

41 1 20

13 2 100 3 3 CAR CHARGER

17 2 100 3 3 CAR CHARGER

21 2 100 3 3 CAR CHARGER

CAR CHARGER (F)

SPARE

SPARE

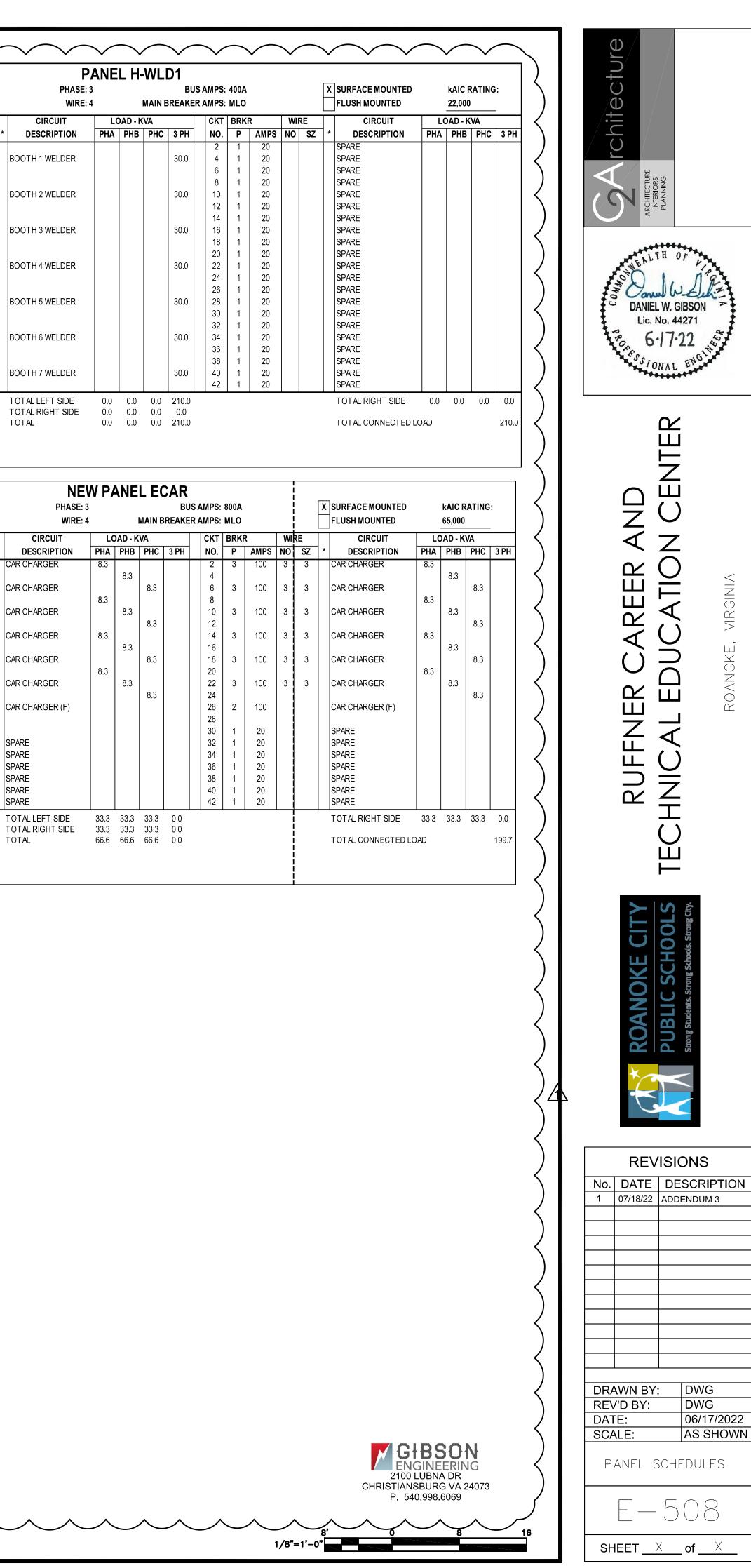
SPARE

SPARE

SPARE

SPARE

TOTAL



2015 VIRGINIA CONSTRUCTION CODE (USBC PART 1, IBC		•	ONSIDERAT	
	C 2015 W/ AMENDMENTS)		ITROL AREA NUMBER	
2015 VIRGINIA RESIDENTIAL CODE		CLASSIFICATION		
2015 VIRGINIA EXISTING BUILDING CODE (USBC PART 2,	, IEBC 2015 W/ AMENDMENTS)	FLAMMABLE GAS** S	2 WELDING TORAGE	
	PC, IFC 2015 W/ AMENDMENTS; IFC IS IBC REFERENCE ALSO)		ROOM)	
2015 VIRGINIA ENERGY CONSERVATION CODE		(IA, IB, IC) COMBUSTIBLE	1	
2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS A	ND FACILITIES	LIQUIDS (II) COMBUSTIBLE LIQUIDS (IIIA)	1	
GENERAL BUILDING INFORMATION		COMBUSTIBLE LIQUIDS (IIIB)	1	
BUILDING ADDRESS: JURISDICTION:	3601 FERNCLIFF AVE. NW CITY OF ROANOKE, VA	OXIDIZER, CLASS 1	1	
FAX MAP OR PARCEL NO: ZONING:	6460102 INPUD	WATER REACTIVES, CLASS 1	1	
BUILDING LOCATED IN HISTORIC DISTRICT	NO YES	CORROSIVES	1	
BUILDING IS LOCATED IN A FLOOD PLAIN	NO YES	*MAQ INCREASES ARE IN LIQUIDS/GASES WHERE A **CONTROL AREA 2 (WELI	PPLICABLE	
BUILDING WAS BUILT PRIOR TO 1977	NO YES	AREA. STORAGE ROOM I MASONRY WALLS TO FLO	S SEPARAT	
ASBESTOS AND/OR LEAD-BASED PAINT REPORT SUBMITTED)	NO YES N/A	BUILDING AREA CALCUL	ATIONS - CI	
BUILDING CURRENTLY ACCESSIBLE PER CHAPTER 11	NO YES N/A	BUILDING STOR	RY NO. US	
	BUILDING, THERE HAVE BEEN ACCESSIBILITY UPGRADES. EXISTING BUILDING WOULD NOT BE CONSIDERED	BUILDINGS 2&3	1	
FULLY ACCESSIBLE WITH CURRENT CODE HOWEVER.	FIRE SPRINKLER SYS.	BUILDING 1 BUILDINGS 2 & 3 ARE PHY BUILDING. BUILDING 1 IS		
(WORKING/SHOP DRAWINGS) AUTOMATIC FIRE SPRINKLER SYSTEM WILL BE A DELEGATED DESIG THE VIRGINIA CONSTRUCTION CODE (VCC) - REFER TO FX SHEETS I FOR WORKING (SHOP) DRAWINGS. SYSTEM TO BE IN ACCORDANCI ADDITIONAL INFORMATION BUILDING RE-USE ANALYSIS - VEBC	SN FOR WORKING (SHOP) DRAWINGS. SYSTEM TO BE IN ACCORDANCE WITH NFPA 13, 2013 AND FOR ADDITIONAL INFORMATION. AUTOMATIC FIRE AIARM SYSTEM WILL BE A DELEGATED DESIGN E WITH NFPA 72, 2013 AND THE VIRGINIA CONSTRUCTION CODE (VCC) - REFER TO FA SHEETS FOR	AND IS NOT PART OF THE AREA PER FLOOR IS CALL 506.3.3 – AREA INCREASE If = $[F/P - 0.25]^*W/30$ If = $(1.0 - 0.25)^*1 = 0.75$ AND, Aa = $[AT + (NS X IF)]_X Sa$ BUILDING INFO:	E SCOPE OF CULATED IN	
APPLICABLE REQUIREMENTS INDICATED IN THIS INFORMATIONAL S	HEET.			
		TYPES OF CONSTRUCTIO		
	ED AS MIXED OCCUPANCY, SEPARATED GROUP B, BUSINESS AND GROUP A-4, ASSEMBLY IN ACCORDANCE /02/2010 DRAWINGS, SHEET SP101). UNDER THE CURRENT EDITION OF THE VCC THESE EXISTING	TABLE 602. FIRE-RESISTA SEPARATION DISTANCE FIRE SEPARATION	1	
OCCUPANCIES WOULD ALSO BE CLASSEFIED CURRENTLY AS B/A-4, AS EDUCATIONAL FOR STUDENTS UP TO THE TWELFTH GRADE, INC	AS PRESCRIBED BY VEBC SECTION 301.2. THE MAJORITY OF THE EXISTING FACILITY WILL BE RE-CLASSIFIED JUDING ALL VOCATIONAL SHOPS. ASSEMBLY SPACES (I.E., DISPLAY AREA, CONFERENCE, ADULT TRAINING PART OF THIS OCCUPANCY, PER VCC SECTION 303.1.3 OFFICE SPACES, MAINTENANCE STAFF AREAS AND THE	DISTANCE = X (FEET) X < 5	CONS	
LIKE ARE ANCILLARY TO TECHNICAL SCHOOL. N ACCORDANCE WITH VEBC SECTION 701.1, A CHANGE IN OCCUPAI EGRESS, ACCESSIBILITY, MECHANICAL, ELECTRICAL, PLUMBING AN	PART OF THIS OCCUPANCY, PER VCC SECTION 303.1.3 OFFICE SPACES, MAINTENANCE STAFF AREAS AND THE NCY REQUIRES FURTHER ANALYSIS OF BUILDING HEIGHT/AREA, FIRE PROTECTION AND SAFETY, MEANS OF ID STRUCTURAL CONSIDERATIONS TO THE EXTENT PRESCRIBED IN CHAPTER 7 AND IN ALL CASES DOWS NOT NTS. FURTHER CONSIDERATIONS ARE PROVIDED IN VARIOUS SECTIONS OF THIS SHEET THAT DISCUSS EACH	5 < X < 10 10 < X < 20 X > 20 NOTE: AS PART OF CHANGE OF		
ALTERATIONS (VEBC 601.2, 603)		VCC TABLE 602.		
ALTERATIONS TO EXISTING OFFICE SPACES WOULD BE CONSIDERE COMPLY WITH APPLICABLE PROVISIONS OF THE VCC, PER VEBC SE	ED A LEVEL 3 ALTERATION UNDER THE VEBC SECTION 601.2.3. ALL NEW CONSTRUCTION ELEMENTS WILL CTION 603.2 AND 603.3.	FIRE RESISTANCE RATIN BUILDING ELEMENT		
AUTOMATIC FIRE SPRINKLER. BUILDING WILL BE FULLY SPRINKLERED. THE REQUIREMENTS OF V WITH VCC AND NFPA 13. REFER TO FX SHEETS FOR COMPLIANCE W	'EBC SECTION 603.5 ARE DEEMED TO BE MET. NEW SYSTEM INSTALLATION WILL BE MADE IN ACCORDANCE	PRIMARY STRUCTURAL F		
FIRE ALARM.	VITH THE VCC.	EXTERIOR BEARING WAL	S	
TO FA SHEETS FOR COMPLIANCE. WITH THE VCC. MEANS OF EGRESS		NON-BEARING WALLS & F	PARTITIONS	
	T VCC CHAPTER 10, WHERE THERE IS AN INCREASE IN THE "RELATIVE HAZARD" OF THE OCCUPANCY C TABLE 705.2, FULL COMPLIANCE MUST BE MET WITH THE VCC FOR THIS OCCUPANCY, EXCEPT AS INDICATED	FLOOR-CEILING ASSEMB	FLOORS	
1. EXISTING HANDRAILS ARE PERMISSIBLE TO MEET VEBC 603.6.8 (M 2. EXISTING GUARDS ARE PERMISSIBLE TO REMAIN AS-IS (VEBC 60	03.6.9). NEW GUARDS TO MEET VCC.	ROOF CONSTRUCTION, IN ROOF/CEILING ASSEMBL	Y (HORIZON	
	) AND RISER HEIGHT REQUIREMENTS OF THE VCC. NEW STAIRS TO MEET VCC. WILL BE RECONFIGURED IN VARIOUS PLACES THROUGHOUT THE BUILDING TO MEET CURRENT VCC FORMATION. VEBC SECTION 603.6 WILL BE MET.	SHAFTS -VERTICAL EXIT SHAFT - GREASE DUCT E	NCLOSURE	
REQUIREMENTS - REFER TO G-101 THRU G-103 FOR ADDITIONAL INF ADDITIONAL BUILDING CONSIDERATIONS REFER TO A-SHEETS FOR COMPLIANCE WITH VEBC SECTION 712.		ELEVATOR HOISTWAY & I OTHER VERTICAL OPENIN	NGS (FIRE B	
REFER TO A-SHEETS FOR COMPLIANCE WITH VEBC SECTION 712. REFER TO E-SHEETS FOR COMPLIANCE WITH VEBC SECTION 708. REFER TO M-SHEETS FOR COMPLIANCE WITH VEBC SECTION 709.		CORRIDOR SEPARATION	(F-1/B-USE)	
REFER TO P-SHEETS FOR COMPLIANCE WITH VEBC SECTION 799. REFER TO P-SHEETS FOR COMPLIANCE WITH VEBC SECTION 710.		OCCUPANCY SEPARATIO	N (HORIZON	
REFER TO S-SHEETS FOR COMPLIANCE WITH VERC SECTION 714				
REFER TO S-SHEETS FOR COMPLIANCE WITH VEBC SECTION 711. WORK PERFORMED TO CONFORM WITH CHAPTER 7 IS CATEGORIZE	ED SEPARATELY FROM THE WORK AREA METHOD ALTERATIONS.	OCCUPANCY SEPARATIO PARTY/FIRE WALL SEPAR	RATION	
WORK PERFORMED TO CONFORM WITH CHAPTER 7 IS CATEGORIZE ALLOWABLE HEIGHTS & AREAS (VEBC 706; VCC 504, 506) VEBC SECTION 706 REQUIRES BUILDING AREA AND HEIGHT LIMITAT	IONS TO MEET VCC CHAPTER 5, WHERE THERE IS AN INCREASE IN THE "RELATIVE HAZARD" OF THE	PARTY/FIRE WALL SEPAR INCIDENTAL USE SEPARA DWELLING/SLEEPING UN	RATION ATION (FIRE I IT SEPARATI	
WORK PERFORMED TO CONFORM WITH CHAPTER 7 IS CATEGORIZE ALLOWABLE HEIGHTS & AREAS (VEBC 706; VCC 504, 506) VEBC SECTION 706 REQUIRES BUILDING AREA AND HEIGHT LIMITAT OCCUPANCY CLASSIFICATION. SINCE E OCCUPANCY IS A GREATER COMPLY WITH VCC FIRE RESISTANCE REQUIREMENTS, PER VEBC S	TIONS TO MEET VCC CHAPTER 5, WHERE THERE IS AN INCREASE IN THE "RELATIVE HAZARD" OF THE R HAZARD PER VEBC TABLE 706.2, COMPLIANCE MUST BE MET WITH THE VCC. SEPARATED MIXED USES MUST SECTION 706.5.	PARTY/FIRE WALL SEPAR INCIDENTAL USE SEPARA DWELLING/SLEEPING UNI TENANT SEPARATION (FI CONTROL AREA (FIRE BA	RATION ATION (FIRE I IT SEPARATI RE PARTITIC ARRIER)	
WORK PERFORMED TO CONFORM WITH CHAPTER 7 IS CATEGORIZE ALLOWABLE HEIGHTS & AREAS (VEBC 706; VCC 504, 506) VEBC SECTION 706 REQUIRES BUILDING AREA AND HEIGHT LIMITAT OCCUPANCY CLASSIFICATION. SINCE E OCCUPANCY IS A GREATER COMPLY WITH VCC FIRE RESISTANCE REQUIREMENTS, PER VEBC S BUILDING SEPARATION AND EXPOSURE PROTECTION (VEBC 707; V/ VEBC SECTION 707 REQUIRES EXTERIOR WALL FIRE-RESISTANCE T	TIONS TO MEET VCC CHAPTER 5, WHERE THERE IS AN INCREASE IN THE "RELATIVE HAZARD" OF THE R HAZARD PER VEBC TABLE 706.2, COMPLIANCE MUST BE MET WITH THE VCC. SEPARATED MIXED USES MUST SECTION 706.5.	PARTY/FIRE WALL SEPAR INCIDENTAL USE SEPARA DWELLING/SLEEPING UNI TENANT SEPARATION (FI CONTROL AREA (FIRE BA CONTROL AREA (HORIZO SMOKE COMPARTMENT S	RATION ATION (FIRE E IT SEPARATI RE PARTITIC ARRIER) DNTAL ASSEI SEPARATION	
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WORK PERFORMED TO CONFORM WITH CHAPTER 7 IS CATEGORZI         ALLOWABLE HEIGHTS & AREAS (VEBC 706; VCC 504, 506)         VEBC SECTION 706 REQUIRES BUILDING AREA AND HEIGHT LIMITAT OCCUPANCY CLASSIFICATION. SINCE E OCCUPANCY IS A GREATEN COMPLY WITH VCC FIRE RESISTANCE REQUIREMENTS, PER VEBC S BUILDING SEPARATION AND EXPOSURE PROTECTION (VEBC 707, V VEBC SECTION 707 REQUIRES EXTERIOR WILL FIRE-RESISTANCE T RELATIVE HAZARD' OF THE OCCUPANCY CLASSIFICATION. SINCE OF TO BE MET WITH THE VCC.         TYPE OF WORK		PARTY/FIRE WALL SEPARA INCIDENTAL USE SEPARA DWELLING/SLEEPING UN TENANT SEPARATION (FI CONTROL AREA (FIRE BA CONTROL AREA (HORIZO SMOKE COMPARTMENTS SMOKE COMPARTMENTS SMOKE PARTITION (INCIL *EXISTING CONSTRUCTION *EXISTING CONSTRUCTION USE GROUP E FIRE SUPPRESSION SYS. STANDPIPE SYS. (905) PORTABLE EXTINGUISHE FIRE ALARM SYS. (907.2) FULL SMOKE DETECTION VOICE EVACUATION SYS. SMOKE CONTROL SYS. (9 SMOKE/HEAT VENTS (910 CARBON MONOXIDE DETI EMERGENCY LIGHTING (1 PANIC/FIRE EXIT HDW (10 EXIT SIGNS (1013) *VCC SECTION 906.1, EXI THROUGHOUT THE BUILD REQUIRED IN SPECIFIC H ARE PROVIDED WITH PO ADDITIONAL INFORMATIC AUTOMOTIVE TEACHING COSMETCLOGY, PER IFC ELEVATOR MACHINE ROO 3504.2.6. **CARBON MONOXIDE DE CLASSROOMS (HVAC LAB (AUTOMOTIVE TEACHING COCUPANCY EDUCATIONAL (E) - MA	ATION (FIRE I TTION (FIRE I IT SEPARATI RE PARTITIC ARRIER) DNTAL ASSE SEPARATION DENTAL USE: DN - EXISTIN B WALL AND C EXIT ENG ANC PASSA (907.2, 907.3 (907.2, 907.3 (907.2, 907.3 (907.5.2.2) 009) ) ECTION (915 008.3) 10.1.10): E -1 CEPTION 1 E AZARDOS A RTABLE EXT N): LAB, PER V EQUIREME	
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XIMUM ALLOWAB	LE QUANTITIES	(MAQ) - CH. 3
<u>s</u>		
MAXIMUM ALLOWABLE JANTITIES (MAQ*) PER CONTROL AREA	EXCEEDING MAQ*	H-USE CLASSIFICATION IF EXCEEDING MAQ
2,000 CU. FT. – TORAGE/CLOSED	NO	H-2
240 GAL - TORAGE/CLOSED	NO	H-2
240 GAL – TORAGE/CLOSED	NO	NA
660 GAL – FORAGE/ CLOSED	NO	NA
26,400 GAL – TORAGE/CLOSED	NO	NA
8,000 LBS – TORAGE/CLOSED	NO	NA
NL	NL	NA
1,000 GAL – TORAGE/CLOSED	NO	H-4
PRINKLER SYSTEM		OSURE (FOR
RAGE ROOM) IS SE	EPARATED AS IN	DIVIDUAL CONTROL

D BY 1-HOUR CONSTRUCTION TO MEET VCC 414.2 WITH DECK ABOVE.

1. 5						
SE GROUP	BLDG AREA PER STORY (ACTUAL)	TABLE 506.2 ALLOWABLE AREA	% FRONTAGE INCREASE	INCREASED ALLOWABLE AREA	RATIO OF ACTUAL TO ALLOWABLE	REQUIRED SEPARATION RATING (T.508.4)
Е	51,164 SF	43,500	75	54,375	N/A	0 HR.
В	8,267 SF	69,000	75	86,250	N/A	0 HR.
Y SEPARATE THIS PROJE ACCORDAN	ED FROM BUILD	INGS 2&3 AND V ECTIONS 506.2.	RE WALL - THESE VILL NOT BE SPI 3 (SINGLE OCCU S WHERE:	RINKLERED - IT	IS ANALYZED SI	EPARATELY

FL	ILLY SPRINKI	ERED (903.3.1	1.1) - BUILDING 2 &3	
ŀ	ALLOWABLE:	54,375 SF/ST	ORY; 108,750 SF AGGREGA	\TE
	ACTUAL:	51,164 SF (FIF	RST FLOOR) - LARGEST FL	OOR (BUILDING 2&3
QUIREMEN	NTS FOR EXT	ERIOR WALLS	BASED ON FIRE	
YPE	OCCUPANO	CY GROUP E	OCCUPANCY GROUP B	

0 HR 0 HR VEBC TABLE 707.1 AND SECTION 707.3 DO NOT REQUIRE COMPLIANCE WITH

ENTS - CH. 7 REQUIRED RATING DETAIL AND DESIGN NO. RATING PROVIDED SHEET NO. ASSEMBLY 0 HR NA 0 HR

	0 HR	0 HR	NA	NA
	0 HR	0 HR	NA	NA
S (EXTERIOR)	0 HR	0 HR	NA	NA
S (INTERIOR)	0 HR	0 HR	NA	NA
ONTAL ASSEMBLY)	NA	NA	NA	NA
	NA	NA	NA	NA
BEAMS & JOISTS	0 HR	0 HR	NA	NA
NTAL ASSEMBLY)	0 HR	0 HR	NA	NA
RES (FIRE BARRIER)	1 HR	1 HR	NA*	NA*
E (FIRE BARRIER)	1 HR	1 HR	A6.1	UL U415
MACHINE ROOM	1 HR	1 HR	NA*	NA*
BARRIER)	1 HR	2 HR	NA*	NA*
0 OCCUPANTS) - FIRE PARTITION	0 HR	0 HR	NA	NA
) - FIRE PARTITION	0 HR	0 HR	NA	NA
RRIER)	0 HR	0 HR	NA	NA
NTAL ASSEMBLY)	0 HR	0 HR	NA	NA
SUPP. STRUCTURAL MEMBERS)	0 HR	0 HR	NA	NA
	NA	NA	NA	NA
BARRIER)	NA	NA	NA	NA
TION (FIRE PARTITION)	NA	NA	NA	NA
ION)	NA	NA	NA	NA
	1 HR	1 HR	A6.1	UL U906
EMBLY)	0 HR	0 HR	NA	NA
N (SMOKE BARRIER)	NA	NA	NA	NA
ES)	0 HR	0 HR	A6.1	NA
NG FIRE RESISTANCE RATED ELEMENTS TO	BE REPAIRED A	AS NECESSARY	(PENETRATION	S, ETC.)

LING FINISH	REQUIREMENTS BY OCCU	PANCY
SPRINK	LERED	
OSURES EXIT EWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
	С	С

Y SYST	EM REQUIREMEN	TS - CH. 9 & 10		
	REQUIR	ED	PROVID	ED
	NO	YES	NO	YES
	NO	YES	NO	YES
	NO	YES	NO	YES
	NO	YES	NO	YES
.3)	NO	YES	NO	YES
	NO	YES	NO	YES
	NO	YES	NO	YES
	NO	YES	NO	YES
5)**	NO	YES	NO	YES
	NO	YES	NO	YES
-USE	NO	YES	NO	YES
	NO	YES	NO	YES

EXEMPTS PORTABLE FIRE EXTINGUISHERS FROM BEING INSTALLED FULLY SPRINKLERED WITH QUICK RESPONSE SPRINKLERS, AND ARE ONLY AREAS AS PRESCRIBED IN SUB-ITEMS 2 - 6. THE FOLLOWING LOCATIONS INGUISHERS TO MEET THIS REQUIREMENT (REFER TO FX SHEETS FOR

C 2311.6; BUILDING TRADES TEACHING LAB, PER IFC SECTION 2804.3.; ULINARY TEACHING LAB, PER IFC 904.12.5.; IDF/MDF, ELECTRICAL ROOMS ; IE A17.1; HVAC TEACHING LAB; WELDING TEACHING LAB, PER IFC SECTION

# AS PART OF FIRE ALARM/MASS NOTIFICATION SYSTEM, ARE INSTALLED IN (TEACHING) ADDIVITH FUEL-BURNING EQUIPMENT AND GARAGE

### m

rs - CH	1. 29 & VPC C	CH. 4						
	WATER CLOSETS (MALE)	WATER CLOSETS (FEMALE)	URINALS	LAVS. (MALE)	LAVS. (FEMALE)	SHOWER/ TUBS	DRINKING FOUNTAIN (REG.)	SERVICE SINK
3)	1/50	1/50	50% SUB.	1/50	1/50	-	1/100; 1 ACCESS.	1
	17	17	-	17	17	-	18/ 9 ACCESS.	1
	19	19	-	19	19	-	18/ 9 ACCESS.	2

# MEANS OF EGRESS - CH. 10 VCC 1004.1 - OCCUPANT LOAD FACTORS PER TABLE 1004.1.2 (SF/PERSON) ARE INDICATED ON THE LIFE SAFETY DRAWINGS. VCC 1005 - CAPACITY OF MEANS OF EGRESS CAPACITY FACTORS - MEANS OF EGRESS COMPONENTS WILL BE SIZED USING CALCULATED OCCUPANT LOADS MULTIPLIED BY THE FOLLOWING CAPACITY FACTORS FOR FULLY SPRINKLERED E OCCUPANCY CLASSIFICATION: 0.2 (STAIRWAYS 44' MINIMUM), AND 0.15 (LEVEL COMPONENTS AND RAMPS) BIT MILTS THE A MINIMAL SIZE AS STATED BELOW

CLASSIFICATION: 0.2 (STAIRWAYS 44" MINIMUM), AND 0.15 (LEVEL COMPONENTS AND RAMPS), BUT MUST BE A MINIMAL SIZE AS STATED BELOW: 1. AISLES, CORRIDORS, AND RAMPS – MIN. 72 IN. FOR GROUP E, EXCEPT WHERE SERVING OCCUPANT LOADS LESS THAN 50 (36 IN. MINIMUM) OR SPECIFICALLY SERVING MECHANICAL, ELECTRICAL AND/OR PLUMBING EQUIPMENT (24 IN.), PER VCC 1020.2. 2. DOORS –MINIMUM 32 IN. CLEAR WIDTH FOR DOORS, PER VCC 1010. PANIC/FIRE EXIT HARDWARE (WHERE APPLICABLE) IS REQUIRED ON ALL EGRESS DOORS SERVING E OCCUPANCY SERVING AN OCCUPANT LOAD CPEATER THAN 50 PER VCC. SECTION 1010 1 10

GREATER THAN 50, PER VCC SECTION 1010.1.10. 3. STAIRS – MINIMUM OF 44 IN. PER VCC SECTION 1011.2.

VCC 1006 - NUMBER OF EXITS REQUIRED: MINIMUM 2 EXITS. OCCUPANT LOADS IN EXCESS OF 500 OCCUPANTS ARE TO BE PROVIDED WITH THE MINIMUM NUMBER SPECIFIED IN VCC TABLE 1006.3.2. PROVIDED: PLEASE REFER TO THE LIFE SAFETY DRAWINGS FOR THE LOCATIONS OF EXITS.

VCC 1007 - ARRANGEMENT OF MEANS OF EGRESS REMOTENESS OF EXITS (VCC 1007.1): MINIMUM 1/4 OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED INCLUDING EXITS, EXIT ACCESS, AND EXIT DISCHARGE.

TRAVEL DISTANCE (VCC 1017) – FULLY SPRINKLERED BUILDING (REFER TO

TABLE BELOW). COMMON PATH OF TRAVEL (VCC 1006 - REFER TO TABLE BELOW). DEAD-END CORRIDORS (VCC 1020 - REFER TO TABLE BELOW). NOTE: EXISTING DEAD-END CORRIDORS IN GROUPS E/B: 70 FT MAXIMUM

(VEBC 705.3.2, EXCEPTION 3) CORRIDOR PROVISIONS (VCC 1020 - REFER TO TABLE BELOW).

USE GROUP	COMMON PATH OF EGRESS TRAVEL (FT) SECTION 1006.2.1	SPACE WITH ONE MEANS OF EGRESS (MAX OCCUP LOAD) TABLE 1006.2.1	EXIT ACCESS TRAVEL DISTANCE (FT) TABLE 1017.2	DEAD END PERMITTE (FT) SECTION 1020.4
E	75	50	250	50 MAX - EXCEPTION

USE GROUP	CORRIDORS	REQUIRED FIRE RESISTANCE RATING (HOURS) W/SPRINKLER SYSTEM		CORRIDOR WIDTH PROVIDED
E	> 30	0	72" MIN	72"

### VCC – 1008 - ILLUMINATION OF MEANS OF EGRESS (VCC 1008) VEBC SECTION 708 A REQUIRE ELECTRICAL SYSTEM MEET THE VCC NEW OCCUPANCY LIGHTING REQUIREMENTS. ILLUMINATION OF MEANS OF

EGRESS IS REQUIRED AND WILL BE PROVIDED – REFER TO ELECTRICAL EGRESS IS REQUIRED AND WILL BE PROVIDED - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. VEBC SECTION 708.4 REQUIRES ELECTRICAL SYSTEM MEET THE VCC NEW OCCUPANCY LIGHTING REQUIREMENTS. EMERGENCY LIGHTING IS REQUIRED FOR ALL PORTIONS OF THE MEANS OF EGRESS AND WILL BE PROVIDED - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL

# INFORMATION.

VCC 1009 - ACCESSIBLE MEANS OF EGRESS BUILDING WILL BE FULLY SPRINKLERED, STAIRWAYS OR AREAS OF REFUGE ARE NOT REQUIRED TO MEET ACCESSIBLE MEANS OF EGRESS REQUIREMENTS, PER EXCEPTIONS IN VCC SECTIONS 1009.3 OR 1009.6. TWOWAY COMMUNICATION SYSTEM IS REQUIRED TO MEET THIS SECTION, PER VCC 1009.8. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION INFORMATION.

### VCC 1013 - MARKING OF MEANS OF EGRESS VEBC SECTION 705 REQUIRES MEANS OF EGRESS DESIGN TO MEET VCC

DESIGN N

ASSEMBLY

NA

CHAPTER 10, WHERE THERE IS AN INCREASE IN THE "RELATIVE HAZARD" OF THE OCCUPANCY CLASSIFICATION. SINCE E IS A GREATER HAZARD PER VEBC TABLE 705.2, FULL COMPLIANCE MUST BE MET WITH THE VCC FOR THIS OCCUPANCY AT A MINIMUM. MARKING OF ALL MEANS OF EGRESS IS REQUIRED AND WILL BE PROVIDED – REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

VCC 1016 - EGRESS THROUGH INTERVENING SPACES (VCC 1016.2, 1020.6) CORRIDORS WILL NOT PROVIDE EXIT ACCESS THROUGH INTERVENING ROOMS OTHER THAN CORRIDORS, LOBBIES, AND OTHER SPACES PERMITTED TO BE OPEN TO THE CORRIDORS, LOBBIES, AND OTHER SPACES PERMITTED TO BE OPEN TO THE CORRIDOR. INTERVENING ROOMS ARE PERMISSIBLE FOR EXIT ACCESS FROM ONE ROOM TO ADJACENT SPACE, BUT WILL BE FURTHER LIMITED BY COMMON PATH OF TRAVEL AND OVERALL TRAVEL DISTANCE LIMITATION. DEFEND TO OFOTIONAL 4.6 OF THE OPENDATION DISTANCE LIMITATIONS. REFER TO SECTION 1.4.5 OF THIS REPORT ABOVE FOR ADDITIONAL INFORMATION.

VCC 1028 - DISCHARGE FROM EXITS VCC 1028 - DISCHARGE FROM EATS EXITS ARE REQUIRED TO DISCHARGE TO THE EXTERIOR OF THE BUILDING, EXCEPT THAT A MAXIMUM OF 50 PERCENT OF EXIT STARS ARE PERMITTED TO BE ON LEVEL OF EXIT DISCHARGE IN FULLY SPRINKLERED BUILDINGS, PER VCC SECTION 1028.1 EXCEPTION 1. REFER TO LIFE SAFETY DRAWINGS, G-101 AND G-102 FOR ADDITIONAL INFORMATION. A PORTION OF EXIT DISCHARGE IS THROUGH FENCED-IN AREAS ARE DESIGNED TO MEET THE SAFE DISPERSAL AREA PROVISIONS OF 1028.5. REFER TO G-103 FOR ADDITIONAL INFORMATION.

### ACCESSIBILITY - CH. 11

COMPLIANCE WITH VEBC SECTION 402 IS REQUIRED FOR CHANGE OF OCCUPANCY (VEBC 712.1).

NEW CONSTRUCTION ELEMENTS TO BE FULLY ACCESSIBLE AS REQUIRED BY THE VCC (VEBC 404.2). ALTERATIONS TO EXISTING ELEMENTS IN AN AREA CONTAINING A PRIMARY FUNCTION TO COMPLY WITH VEBC 404.3.

### ENERGY EFFICIENCY - CH. 13

COMPLIANCE WITH THE VECC IS NOT REQUIRED FOR A CHANGE OF OCCUPANCY CLASSIFICATION, (VEBC CH. 7). LEVEL 3 ALTERATIONS ARE PERMITTED WITHOUT REQUIRING ENTIRE BUILDING TO MEET THE VECC (VEBC 601.4). ALTERATIONS TO MEET APPLICABLE SECTIONS OF VECC - REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

### ELEVATORS AND CONVEYING SYSTEMS - CH. 30

SECTION 3003.2 - FIREFIGHTER'S EMERGENCY OPERATIONS: PHASE I AND PHASE II IMPLEMENTED FOR ELEVATOR CAR REPLACEMENT.

SECTION 3005 - MACHINE ROOM VENTING PROVIDED. SHUNT TRIP TO BE PROVIDED TO MEET NFPA 72 AND A17.1 REQUIREMENTS.

3007 & 3008 - FIRE SERVICE ACCESS ELEVATOR AND OCCUPANT EVACUATION ELEVATOR REQUIREMENTS ARE NOT APPLICABLE TO THIS PROJECT.

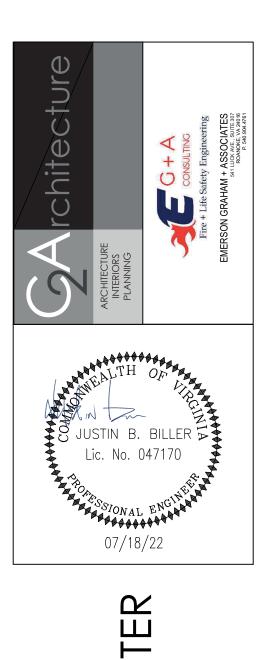
### DRAWING INDEX

### CODE DATA SHEET G-001

G-101 G-102

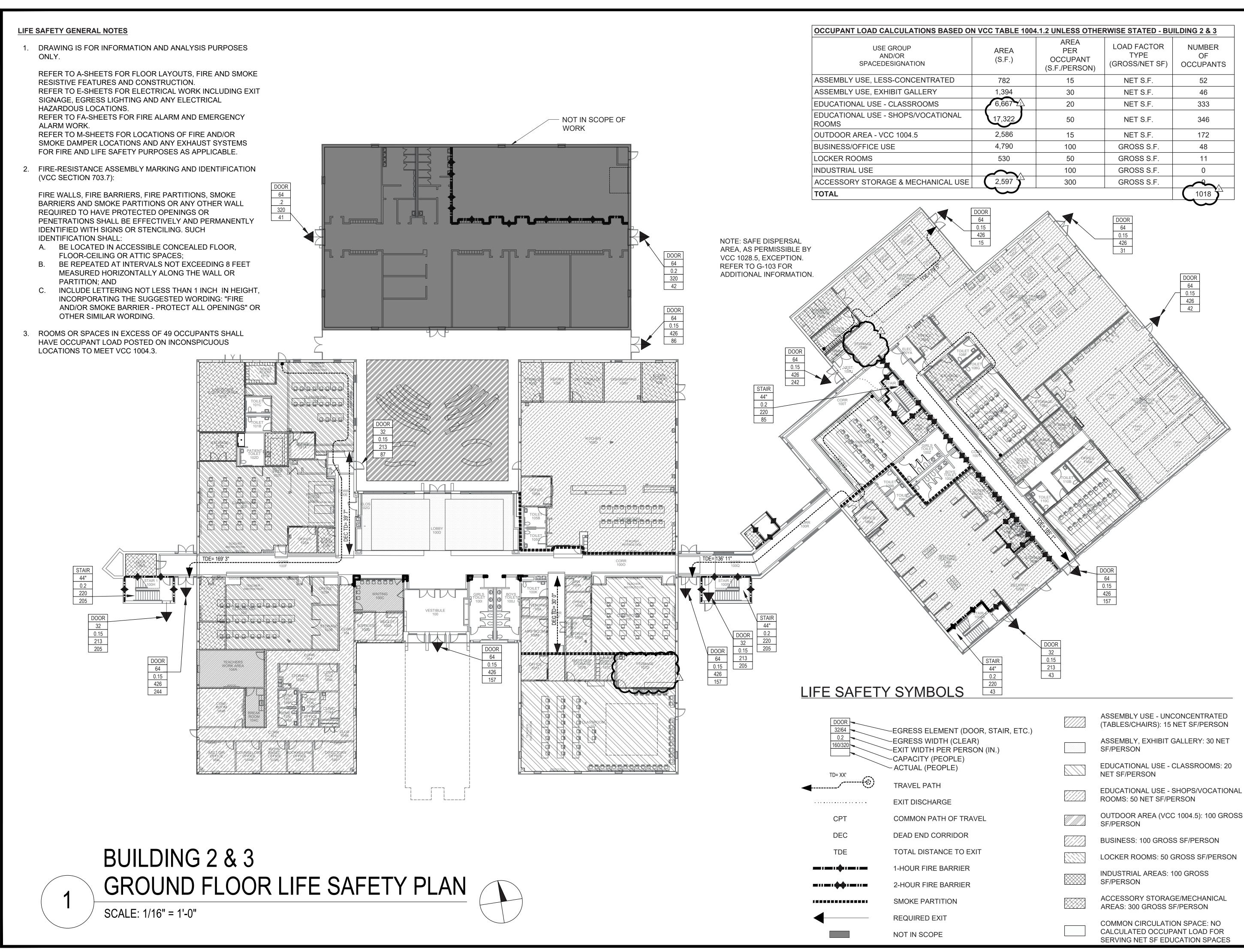
G-103

**BUILDING 2 & 3 GROUND FLOOR LIFE SAFETY PLAN BUILDING 2 & 3 SECOND FLOOR LIFE SAFETY PLAN** ARCHITECTURAL LIFE SAFETY SITE PLAN





REVISIONS							
No.	DATE	DES	SCRIPTION				
3	7-18-22		ING UPDATES AND FICATIONS				
	WN BY:		KNS				
	D BY:		JBB				
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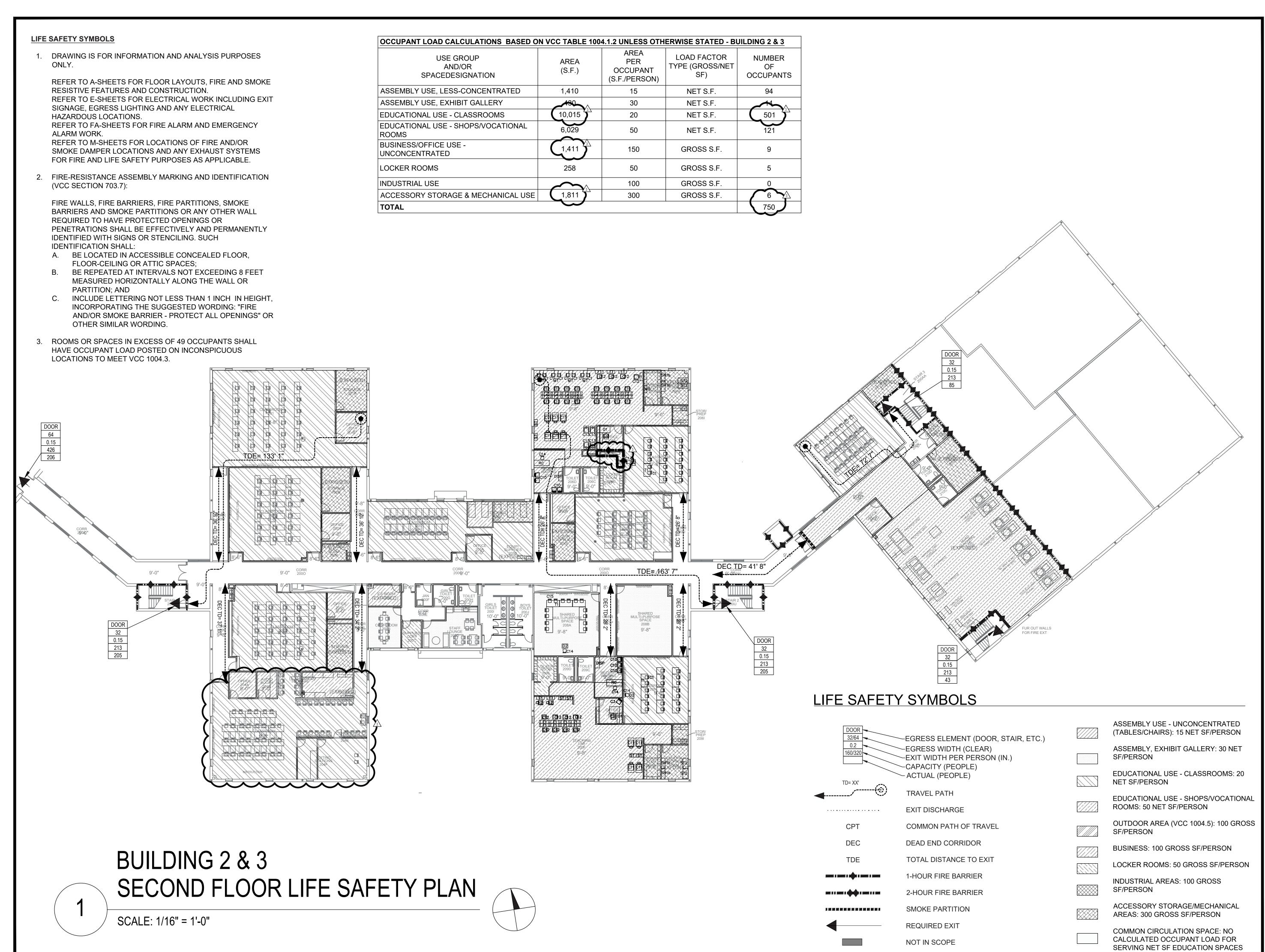


	AREA (S.F.)	AREA PER OCCUPANT (S.F./PERSON)	LOAD FACTOR TYPE (GROSS/NET SF)	NUMBER OF OCCUPANTS
ſED	782	15	NET S.F.	52
	1,394	30	NET S.F.	46
	6,667 🖄	20	NET S.F.	333
ONAL	17,322	50	NET S.F.	346
	2,586	15	NET S.F.	172
	4,790	100	GROSS S.F.	48
	530	50	GROSS S.F.	11
		100	GROSS S.F.	0
AL USE	2,597	300	GROSS S.F.	

IT (DOOR, STAIR, ETC.)		ASSEMBLY USE - UN (TABLES/CHAIRS): 1
(CLEAR) PERSON (IN.)		ASSEMBLY, EXHIBIT SF/PERSON
PLE) E)		EDUCATIONAL USE NET SF/PERSON
		EDUCATIONAL USE ROOMS: 50 NET SF/F
OF TRAVEL		OUTDOOR AREA (VO SF/PERSON
IDOR		BUSINESS: 100 GRO
TO EXIT		LOCKER ROOMS: 50
RIER		INDUSTRIAL AREAS: SF/PERSON
RIER	~~~~~	
N		ACCESSORY STORA AREAS: 300 GROSS
		COMMON CIRCULAT CALCULATED OCCU SERVING NET SF EE



SHEET <u>1</u> of <u>4</u>



AD CALCULATIONS BASED ON VCC TABLE 1004.1.2 UNLESS OTHERWISE STATED - BUILDING 2 & 3								
USE GROUP AND/OR ACEDESIGNATION	AREA (S.F.)	AREA PER OCCUPANT (S.F./PERSON)	LOAD FACTOR TYPE (GROSS/NET SF)	NUMBER OF OCCUPANTS				
E, LESS-CONCENTRATED	1,410	15	NET S.F.	94				
E, EXHIBIT GALLERY	<b>430</b>	30	NET S.F.					
USE - CLASSROOMS	10,015	20	NET S.F.	501				
USE - SHOPS/VOCATIONAL	6,029	50	NET S.F.	121				
CE USE - ATED	1,411	150	GROSS S.F.	9				
S	258	50	GROSS S.F.	5				
E		100	GROSS S.F.	0				
TORAGE & MECHANICAL USE	1,811	300	GROSS S.F.	6				
	$\sim$			750				



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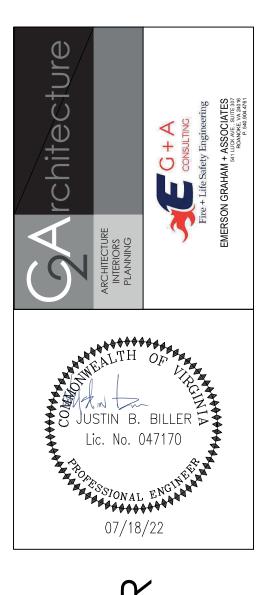
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# DRAWN BY: KNS REV'D BY JBB 7/18/22 DATE: AS SHOWN SCALE: BUILDING 2 & 3 SECOND FLOOR LIFE SAFETY PLAN G-102 SHEET 1 of $4 \times$

-	CEILING	CEILING	ADS (Y/N -	PUBLIC	AMBIENT SOUND	MIN. DESIGN		ACOUSTICAL	CEILING	CEILING	ADS (Y/N -	PUBLIC		MIN. DESIGN	
SPACE	HEIGHT (FT)	(SEE KEY)	NOTIFICATION TYPE)#	OR PRIVATE MODE	SOUND PRESSURE (dBA)*	SOUND PRESSURE (dB)	REMARKS	SPACE	HEIGHT (FT)	(SEE KEY)	NOTIFICATION TYPE)#	OR PRIVATE MODE	E SOUND PRESSURE (dBA)*	SOUND PRESSURE (dB)	REMARKS
ANDSCAPE EQUIPMENT AND SUPPLIES		OPN	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	CLASSROOM 201 STORAGE 201B	9' 8"	OPN	Y-SPEAKER			60	NON-OCCUPIAE SPACE - VCC
OCKER ROOM 101D TOILET ROOM 101C	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 45	70 60		OFFICE 201A	9' 8"	ACT	Y - SPEAKER	PUBLIC			907.5.2.1.1
COLET ROOM 101B CLASSROOM 101	9' 0" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC	45 45	60 60		CORR 200M CLASSROOM 202	9' 8"				45	60	
STORAGE 102E		OPN	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC	STORAGE 202B		OPN	N	-		· ·	NON-OCCUPIAE SPACE - VCC
PATIENT TOILET 102D	9' 0"	ACT	Y - SPEAKER	PUBLIC	55	70	907.5.2.1.1	OFFICE 202A	9' 0"	ACT	Y - SPEAKER	PUBLIC	45		907.5.2.1.1
IEDS PREP 102C	9' 0"	АСТ	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	ELEC ROOM 200P CORR 200Q	9' 8"	OPN ACT	Y - SPEAKER	PUBLIC	80	95	
DFFICE 101A CLASSROOM 102 / PATIENT ROOM 102B	9' 0" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 45	70 60		CORR 200K STAIR 2 200L	9' 0"	GCB ACT	Y - SPEAKER	PUBLIC	55	70	NOTIFICATION NO REQUIRED - NFPA
DFFICE 102A	9' 0"	ACT OPN	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 80	70 95		CORR 200N	9' 8"	ACT		-	-	-	72:23.8.6.2
CORR 100E	9' 8" 9' 0"	ACT ACT	Y - SPEAKER	PUBLIC	55	70		CLASSROOM 203 OFFICE 203A	9' 8" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	45 55	60 70	
ELEC 100G		OPN					NOTIFICATION NOT	STORAGE 203B		OPN	N	-	-	-	NON-OCCUPIABLE SPACE - VCC
STAIR 1 100H		OPN	Ν	-	-	-	REQUIRED - NFPA 72:23.8.6.2	CORR 200R	9' 0"	ACT		DUDU 0		70	907.5.2.1.1
STORAGE 103E		OPN	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	OFFICE 204A AUDIO BOOTH 204B	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70	
DFFICE 103A CLASSROOM 103	9' 0" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70		STORAGE 204C		OPN	N	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1
EACHERS WORK AREA 104A CONF. ROOM 104B	10' 0" 10' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70		CLASSROOM 204 STUDIO STAGE 204D	9' 8"	ACT OPN	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	45 45	60 60	
BREAK ROOM 104C	9' 0"	ACT	Y - SPEAKER	PUBLIC	55	70	NON-OCCUPIABLE	CONTROL ROOM 204E EDITING STATIONS 204F	9' 0" 9' 8"	ACT ACT	Y - SPEAKER	PUBLIC	45	60	
STORAGE 104D	9' 0"	ACT	Ν	-	-	-	SPACE - VCC 907.5.2.1.1	CORR 2000 IDF ROOM 200A	9' 0"	ACT OPN	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55	70 70	
COPY / FILE 104E NOMENS TOILET 104G	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70		CONFERENCE ROOM 200B	9' 0"	ACT	Y - SPEAKER	PUBLIC	55	70 70 70	
MENS TOILET 104F CLINIC TOILET 104H	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70		SUPPLIES / COPY 200C CORR 200E	9' 0" 9' 0"	ACT ACT	Y - SPEAKER	PUBLIC	55	70	
	9' 0"		Y - SPEAKER	PUBLIC	55	70	NON-OCCUPIABLE	JAN 200F		OPN	N	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1
DFFICE STORAGE 104I	9' 0"	ACT	Ν	-	-	-	SPACE - VCC 907.5.2.1.1	GIRLS TOILET 200G TOILET 200H	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	45 45	60 60	
CLOSET 104K		ACT	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	STAFF LOUNGE 200D GIRLS TOILET 2001	9' 0" 10' 0"	ACT ACT GCB	Y - SPEAKER Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70	
ASST. DIR OFFICE 104L COUNSELOR OFFICE 104M	9' 8" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70		BOYS TOILET 200J	10' 0"	GCB	Y - SPEAKER	PUBLIC	55	70	
VORK BASED OFFICE 104N 300KING OFFICE 1040	9' 8: 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC	55 55	70 70		CORR 2000 CLASSROOM 205	9' 0" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 45	70 60 70	
DIRECTORS OFFICE 1040 CORRIDOR 104	9'8" 9'8"	ACT ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC	55 55 55	70 70 70	<u> </u>	OFFICE 205A EQUIP/ SUPPLIES 205B	9' 0"	ACT OPN	Y - SPEAKER	PUBLIC	- 55	70	NON-OCCUPIABLE SPACE - VCC
VAITING ROOM 100C	9' 8"	ACT	Y - SPEAKER	PUBLIC	55	70		TEACHING LAB 205C	9' 8"	ACT	Y - SPEAKER	PUBLIC	45	- 60	907.5.2.1.1
RECEPT 100A	9' 8"	ACT ACT	Y - SPEAKER	PUBLIC	- 55	- 70	NON-OCCUPIABLE SPACE - VCC	CORRIDOR 200S TEACHING LAB 200F	9' 0" 9' 8"	ACT ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC	45 55 45	70	
/ESTIBULE 100	9' 8"	WPC	N Y - SPEAKER	- PUBLIC	55	70	907.5.2.1.1	MANAKIN STORAGE 206G	9' 0"	ACT	Y - SPEAKER N	- PUBLIC		-	NON-OCCUPIABLE SPACE - VCC
GIRLS TOILET 100I BOYS TOILET 100J	10' 0" 10' 0"	GCB GCB	Y - SPEAKER Y - SPEAKER	PUBLIC	55 55	70 70 70							+ +		907.5.2.1.1 NON-OCCUPIABLE
OBBY 100D	9' 8"	WPC	Y - SPEAKER	PUBLIC	55	70	NON-OCCUPIABLE	GENERAL STORAGE 206H		OPN	N	-	-	-	SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE
STORAGE 105E	9' 8"	АСТ	Ν	-	-	-	SPACE - VCC 907.5.2.1.1	STOR/PREP ROOM 2061	9' 0"	ACT	N	-	-	-	SPACE - VCC 907.5.2.1.1
REFRIG 105F		OPN	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	RECEPTION / WAITING ROOM 206E TOILET 206D	9' 8" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70	
DRY STORAGE 105G	9' 8"	АСТ	N	-	-	-	NON-OCCUPIABLE SPACE - VCC	TOILET 206C LOCKER ROOM	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 55	70 70	
DISHWASHING 105H	9' 8"	ACT	Y - SPEAKER	PUBLIC	80	95	907.5.2.1.1	OFFICE 206A CLASSROOM 206	9' 0" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	45 45	60 60	
EQUIP/DELIVERY 105I	9' 8"	OPN ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	80 80	95 95		OFFICE 207A	9' 0"	ACT	Y - SPEAKER	PUBLIC	55	70	NON-OCCUPIABLE
OFFICE 105A OILET 105B	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 45	70 60		EQUIP/ SUPPLIES 207B		OPN	N	-	-	-	SPACE - VCC 907.5.2.1.1
TOILET 105C CLASSROOM 105	9' 0" 9' 0"	ACT GCB	Y - SPEAKER Y - SPEAKER	PUBLIC	45 45	60 60	<u> </u>	CLASSROOM 207 CORRIDOR 200U	9' 8" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	45 55	60 70	
CORR 1000	9' 0" 9' 0"	ACT ACT	Y - SPEAKER	PUBLIC	55	70	<u> </u>	SHARED MULTI-PURPOSE SPACE 208A CORR 200T	9' 8" 9' 0"	ACT ACT	Y - SPEAKER	PUBLIC	45	60	
OILET 100K		OPN	Y - SPEAKER Y - SPEAKER	PUBLIC	55	70 70	<u> </u>	SHARED MULTI-PURPOSE SPACE 208B CORR 200V	9' 8" 9' 8"	ACT ACT	Y - SPEAKER	PUBLIC	45	60	
CORR 100F //RF ROOM 100M //RF ROOM 100M	9' 0"	ACT OPN	Y - SPEAKER	PUBLIC	55	70		LOCKER ROOM 209E TOILET 209D	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55	70 70	
OFFICE 106A /ENDING 100L	9' 0" 9' 0"	ACT GCB	Y - SPEAKER	PUBLIC PUBLIC	55	70		TOILET 209D TOILET 209C RECEPT/WAITING 209B	9' 0" 9' 0" 9' 8"	ACT ACT ACT	Y - SPEAKER Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC PUBLIC	55 55 55	70 70 70	
STORAGE 106B		OPN	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	CLASSROOM 209	9' 8" 9' 8" 9' 8"	ACT ACT ACT	Y - SPEAKER		45	60 60	
CLASSROOM 106 DFFICE 107A	9' 8" 9' 8"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	45 55	60 70		TEACHING LAB 209F OFFICE 209A	9' 8"	ACT	Y - SPEAKER Y - SPEAKER	PUBLIC	45 55	60 70	
/ATERIAL / EQUIP. STORAGE 107B	9' 0"	АСТ	N	-	-	-	NON-OCCUPIABLE SPACE - VCC	STOR/PREP ROOM 2091	9' 0"	ACT	N	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1
ROBOT STORAGE 107C	9' 0"	АСТ	N	-			907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC	MANAKIN STORAGE 209G	9' 0"	ACT	N	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1
STORAGE 107C	9' 0"	ACT	N Y - SPEAKER	- PUBLIC	80	95	907.5.2.1.1	GENERAL STORAGE 209H		OPN	N	-	<u> </u>	_	NON-OCCUPIABLE SPACE - VCC
CLASSROOM 107 CORR 100Q	9' 8" 9' 8"	ACT ACT	Y - SPEAKER	PUBLIC	45	60	<b> </b>	CORRIDOR 200W	9' 0"	ACT	Y - SPEAKER	PUBLIC	55	70	907.5.2.1.1
CORR 100R STAIR 2 100P	9' 0"	ACT OPN	Y - SPEAKER N	PUBLIC	55	70		STAIR 2 200U		ACT	N	-	-	-	NOTIFICATION NOT REQUIRED - NFPA 72:23.8.6.2
			N	-	-	-	NOTIFICATION NOT REQUIRED - NFPA	ELEVATOR			N	-	<u> </u>	-	NOTIFICATION NOT REQUIRED - NFPA
CORR 100T	9' 0"	ACT					72:23.8.6.2	CORR 200X	9' 0"	ACT					72:23.8.6.2
CLASSROOM 109	9' 8"	ACT	Y - SPEAKER	PUBLIC	45	60		CLASSROOM 210	9' 8"	ACT	Y - SPEAKER	PUBLIC	45	60	NON-OCCUPIABLE
STAIR 3 100W		OPN	N	-	-	-	REQUIRED - NFPA 72:23.8.6.2 NON-OCCUPIABLE	STORAGE 210E		OPN	N	-	-	-	SPACE - VCC 907.5.2.1.1 NOTIFICATION NOT
IAN 100X		OPN	Ν	-	-	-	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	STAIR 3 200AA		ACT	N	-	-	-	REQUIRED - NFPA 72:23.8.6.2
OFFICE 109A FOILET 109B	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 45	70 60		CORRIDOR 200Y ELECTICAL ROOM 200Z	9' 0"	ACT OPN	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 80	70 95	
OILET 109C BOYS TOILET 100AA	9' 0" 10' 0"	ACT GCB	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	45 55	60 70		OFFICE 210A TOILET 210D	9' 0" 9' 0"	ACT ACT	Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC	55 45	70 60	
·	10' 0"	GCB OPN	Y - SPEAKER Y - SPEAKER	PUBLIC	55 80	70	<b> </b>	TOILET 2100 MDF ROOM 200AC	9' 0"	ACT OPN	Y - SPEAKER Y - SPEAKER	PUBLIC	45 55	60 70	
GIRLS TOILET 100BB VELDING TEACHING LAB 109H		OPN	N	-	-	-	NOTIFICATION NOT REQUIRED - NFPA	STAIR 4 200AB		ACT	N N	-	-	-	NOTIFICATION NOT REQUIRED - NFPA
GIRLS TOILET 100BB							72:23.8.6.2	HVAC TEACHING LAB 210B		OPN	Y - SPEAKER	PUBLIC	80	95	72:23.8.6.2
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F		OPN						# ACOUSTICALLY DISTINGUISHABLE SPACE (ADS) DE					MENTS FOR VOIC	CE EVACUTIO	N AND EMERGENCY
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB	9' 0"	OPN OPN ACT					NON-OCCUPIABLE SPACE - VCC	COMMUNICATION SYSTEMS. REFER TO NFPA 72:18.4 * TYPICAL AVERAGE AMBIENT SOUND LEVELS FOR A IN LIEU OF SOUND LEVEL MEASUREMENTS WHERE O	LARM TONES BA	SED ON NFPA		. THIS SERVE	ES AS A BASIS OF	DESIGN, BU	T SHOULD NOT BE US
SIRLS TOILET 100BB VELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E	9' 0"	OPN	N	-	-	-	1907 5 2 3 3	MINIMUM SOUND LEVEL MEASUREMENTS WHERE O MINIMUM SOUND LEVELS ARE DESIGNATED IN ACC SECONDS AND MEASURED 5 FT ABOVE THE FLOOR.						AVING A DUR	ATION OF AT LEAST 6
GIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C	<u> </u>	OPN ACT OPN ACT	N Y - SPEAKER	- PUBLIC	- 55	70	907.5.2.1.1			NFPA 72:18.4.3					
GIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D	9' 0"	OPN ACT OPN		- PUBLIC	- 55 55	- 70 70		3		NFPA 72:18.4.3					
GIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E	8, 0, 8, 0, 7, 0,	OPN ACT OPN ACT ACT OPN	Y - SPEAKER Y - SPEAKER	PUBLIC	55	70		3		NFPA 72:18.4.3					
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E OFFICE 108A SUILDING TRADES TEACHING LAB 108	8, 0, 8, 0, 7, 0,	OPN ACT OPN ACT ACT OPN ACT OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER	PUBLIC	55	70	NON-OCCUPIABLE	3		NFPA 72:18.4.3					
GIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E	8, 0, 8, 0, 7, 0,	OPN ACT OPN ACT ACT OPN	Y - SPEAKER Y - SPEAKER	PUBLIC	55	70	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	3		NFPA 72:18.4.3					
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E OFFICE 108A SUILDING TRADES TEACHING LAB 108	8, 0, 8, 0, 7, 0,	OPN ACT OPN ACT ACT OPN ACT OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER	PUBLIC	55	70	NON-OCCUPIABLE SPACE - VCC	3		NFPA 72:18.4.3					
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E DFFICE 108A SULDING TRADES TEACHING LAB 108 STORAGE 108I	8, 0, 8, 0, 7, 0,	OPN ACT OPN ACT ACT OPN ACT OPN OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N	PUBLIC	55	70	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC	3		NFPA 72:18.4.3					
GIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E OFFICE 108A SUILDING TRADES TEACHING LAB 108 STORAGE 108I STORAGE 108J COLLET 108F	<b>∂</b> , 0,	OPN ACT OPN ACT OPN ACT OPN OPN OPN ACT ACT	Y - SPEAKER Y - SPEAKER Y - SPEAKER N N Y - SPEAKER Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC PUBLIC - PUBLIC PUBLIC	55 55 - - 45 45	70 70 - - 60 60	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC	3		NFPA 72:18.4.3					
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E DFFICE 108A SULDING TRADES TEACHING LAB 108 STORAGE 108I STORAGE 108J	ð, 0, ∂, 0, ∂, 0,	OPN ACT OPN ACT ACT OPN OPN OPN OPN ACT	Y - SPEAKER Y - SPEAKER Y - SPEAKER N N Y - SPEAKER	PUBLIC PUBLIC - - PUBLIC	55 55 - - 45	70 70 - - 60	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC	3		NFPA 72:18.4.3					
GIRLS TOILET 100BB VELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C VEST_100U MASONRY TEACHING LAB 108E DEFICE 108A SUILDING TRADES TEACHING LAB 108 STORAGE 108I STORAGE 108J TOILET 108F TOILET 108G CLASSROOM 108H	ð, 0,                  ð, 0,                  ð, 0,	OPN ACT OPN ACT OPN ACT OPN OPN OPN ACT ACT ACT	Y - SPEAKER Y - SPEAKER Y - SPEAKER N N Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC PUBLIC - PUBLIC PUBLIC PUBLIC	55 55 - - 45 45 45	70 70 - - 60 60 60	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.2	3		NFPA 72:18.4.3					
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E OFFICE 108A SUILDING TRADES TEACHING LAB 108 STORAGE 108I STORAGE 108J TOILET 108F TOILET 108F TOILET 108H OCKER ROOM 108H OCKER ROOM 110D STORAGE 110E	ð, 0,                  ð, 0,                  ð, 0,	OPN ACT OPN ACT OPN ACT OPN OPN OPN ACT ACT ACT ACT OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER N N Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N	PUBLIC PUBLIC PUBLIC - PUBLIC PUBLIC PUBLIC	55 55 - - 45 45 45	70 70 - - 60 60 60	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.2 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE	3		NFPA 72:18.4.3					
SIRLS TOILET 100BB WELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C /EST_100U MASONRY TEACHING LAB 108E OFFICE 108A BUILDING TRADES TEACHING LAB 108 STORAGE 108J STORAGE 108J COILET 108F COILET 108F COILET 108F COILET 108H OCKER ROOM 110D STORAGE 110E	ð, 0,                  ð, 0,                  ð, 0,	OPN ACT OPN ACT OPN ACT OPN OPN OPN ACT ACT ACT ACT ACT OPN OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER N N Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N N N	PUBLIC PUBLIC PUBLIC - PUBLIC PUBLIC PUBLIC PUBLIC -	55 55 - - 45 45 45 55 - - -	70 70 - - 60 60 60 70 - - -	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.2 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	3		NFPA 72:18.4.3					
SIRLS TOILET 100BB VELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C VEST_100U MASONRY TEACHING LAB 108E DEFICE 108A SULDING TRADES TEACHING LAB 108 STORAGE 108I STORAGE 108J TOILET 108F TOILET 108F TOILET 108F TOILET 108B STORAGE 110E STORAGE 110E STORAGE 110F AUTOMOTIVE TEACHING LAB 107	3, 0,         3, 8,         3, 0,         3, 0,         3, 0,         3, 0,         3, 0,	OPN ACT OPN ACT OPN ACT OPN OPN OPN ACT ACT ACT ACT ACT OPN OPN OPN OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N N N	PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC - PUBLIC	55 55 - - 45 45 45 55 - - - 80	70 70 - - 60 60 60 60 70 - - - 95	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.2 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC	3		NFPA 72:18.4.3					
SIRLS TOILET 100BB VELDING TEACHING LAB 109H STAIR 4 100AB STORAGE 109F STORAGE 109E OCKER ROOM 109D MASONRY STORAGE 108D OCKER ROOM 108C (EST_100U MASONRY TEACHING LAB 108E OFFICE 108A UILDING TRADES TEACHING LAB 108 STORAGE 108I STORAGE 108J STORAGE 108J COILET 108F OILET 108G CLASSROOM 108H OCKER ROOM 110D STORAGE 110E STORAGE 110F MUTOMOTIVE TEACHING LAB 107 OILET 110B OILET 110B OILET 110C	ð, 0,         ð, 0,	OPN ACT OPN ACT OPN ACT OPN OPN OPN ACT ACT ACT OPN OPN OPN OPN OPN OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N Y - SPEAKER Y - SPEAKER Y - SPEAKER N N N Y - SPEAKER Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC	55 55 - - 45 45 45 55 - - - 80 45 45 45	70 70 - - 60 60 60 70 - - 95 60 60 60	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.2 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC	3		NFPA 72:18.4.3					
IRLS TOILET 100BB /ELDING TEACHING LAB 109H TAIR 4 100AB TORAGE 109F TORAGE 109E OCKER ROOM 109D IASONRY STORAGE 108D OCKER ROOM 108C EST_100U IASONRY TEACHING LAB 108E IFFICE 108A UILDING TRADES TEACHING LAB 108 TORAGE 108J OILET 108F OILET 108F OILET 108F OILET 108F OILET 108F OILET 108F OILET 108F TORAGE 110E TORAGE 110F UTOMOTIVE TEACHING LAB 107 OILET 110B	3, 0,         3, 0,         3, 0,         3, 0,         3, 0,         3, 0,         3, 0,         3, 0,	OPN ACT OPN ACT OPN ACT OPN OPN OPN ACT ACT ACT ACT OPN OPN OPN OPN OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N N N Y	PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC	55 55 - - 45 45 45 55 - - - 80 45	70 70 - - 60 60 60 70 - - - 95 60	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.2 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC	3		NFPA 72:18.4.3					
IRLS TOILET 100BB /ELDING TEACHING LAB 109H TAIR 4 100AB TORAGE 109F TORAGE 109E DCKER ROOM 109D ASONRY STORAGE 108D DCKER ROOM 108C EST_100U ASONRY TEACHING LAB 108E FFICE 108A UILDING TRADES TEACHING LAB 108 TORAGE 108J DILET 108F DILET 108F DILET 108G LASSROOM 108H DCKER ROOM 110D TORAGE 110E TORAGE 110F UTOMOTIVE TEACHING LAB 107 DILET 110B DILET 110C FFICE 110A	9' 0" 9' 0"	OPN ACT OPN ACT OPN ACT OPN OPN OPN OPN ACT ACT ACT ACT OPN OPN OPN OPN OPN OPN OPN OPN OPN OPN	Y - SPEAKER Y - SPEAKER Y - SPEAKER N N Y - SPEAKER Y - SPEAKER Y - SPEAKER Y - SPEAKER N N Y Y - SPEAKER Y - SPEAKER	PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC PUBLIC	55 55 - - 45 45 45 55 - - - 80 45 45 55 45 Y REQUIREME	70 70 70 - - 60 60 60 70 - - 95 60 60 60 70 60 80 70 60 70 60 70 60 70 60 70 70 70 70 70 70 70 70 70 7	NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.2 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1 NON-OCCUPIABLE SPACE - VCC 907.5.2.1.1	3		NFPA 72:18.4.3					

# ABBREVIATIONS LEGEND KEY:

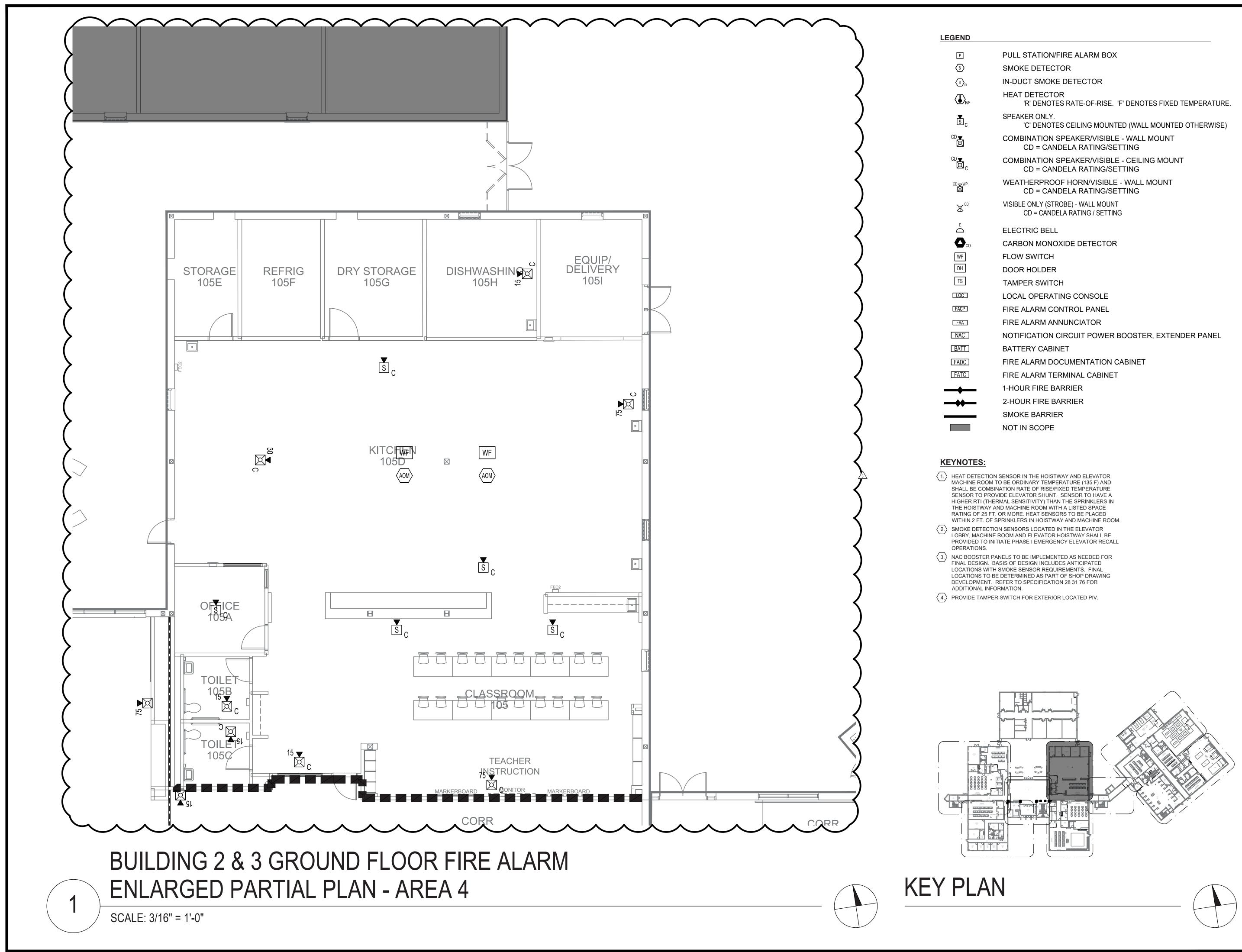
- ACOUSTICALLY DISTINGUISHABLE SPACE ADS
- ACOUSTICAL CEILING TILE ACT
- DECIBEL SOUND LEVEL DB
- AVERAGE DECIBEL SOUND LEVEL DBA GYPSUM CEILING BOARD GCB
- OPN OPEN TO ROOF DECK



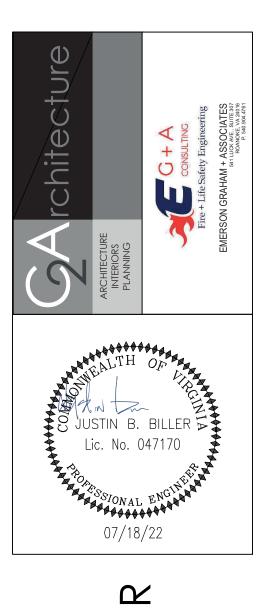


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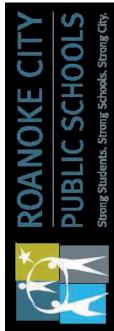
	REVISIONS							
No.	DATE	DES	SCRIPTION					
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DRA	WN BY:		KNS					
	D BY:		JBB					
DAT			7/18/22					
SCA			AS SHOWN					
FIRE	FIRE ALARM ROOM DESIGN DATA							
	FA002							
	SHEET	2	of_22					



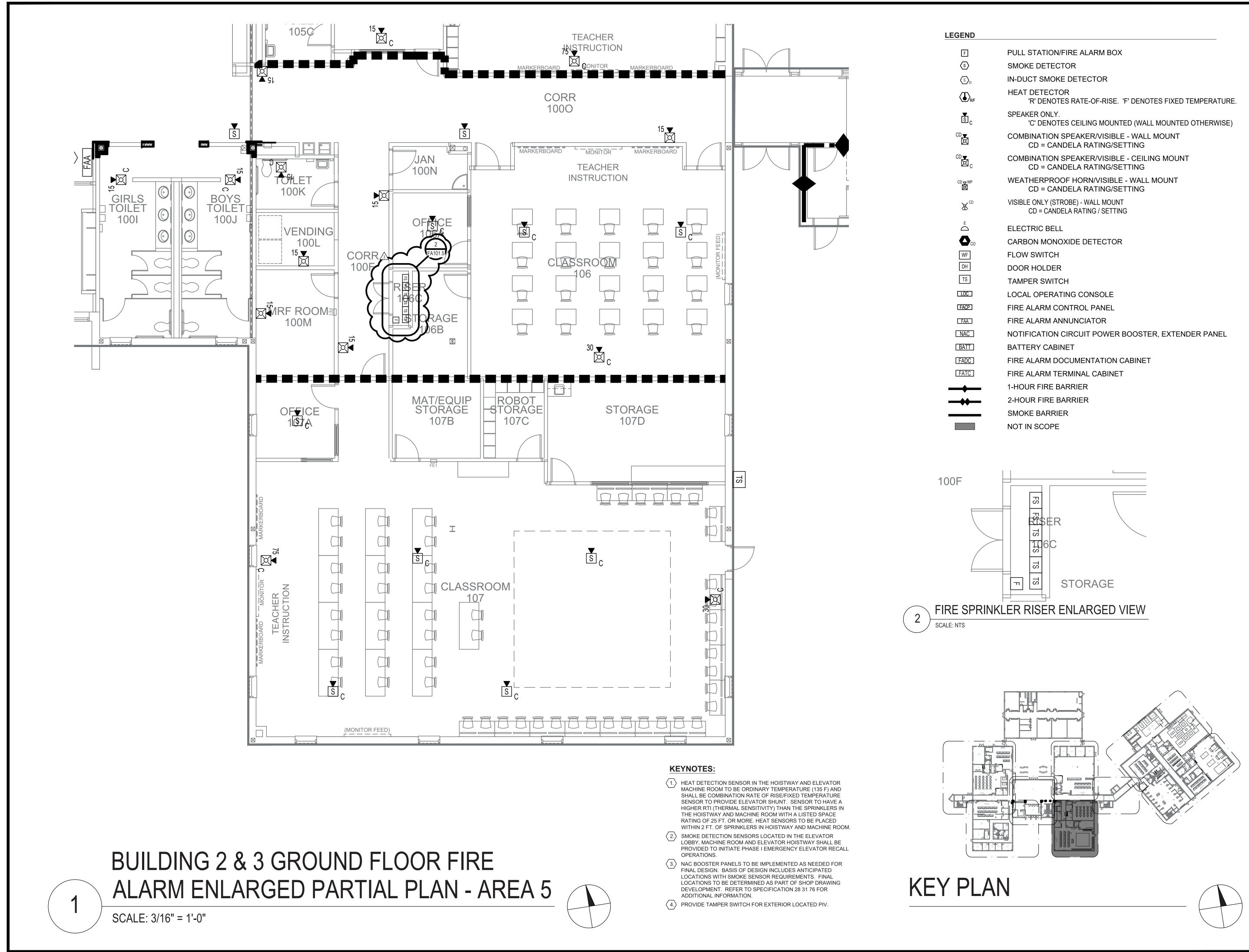
]	PULL STATION/FIRE ALARM BOX
$\geq$	SMOKE DETECTOR
	IN-DUCT SMOKE DETECTOR
R/F	HEAT DETECTOR 'R' DENOTES RATE-OF-RISE. 'F' DENOTES FIXED TEMPERATURE.
	SPEAKER ONLY. 'C' DENOTES CEILING MOUNTED (WALL MOUNTED OTHERWISE)
	COMBINATION SPEAKER/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
a <sub>c</sub>	COMBINATION SPEAKER/VISIBLE - CEILING MOUNT CD = CANDELA RATING/SETTING
WP I	WEATHERPROOF HORN/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
CD	VISIBLE ONLY (STROBE) - WALL MOUNT CD = CANDELA RATING / SETTING
2	ELECTRIC BELL
со	CARBON MONOXIDE DETECTOR
F	FLOW SWITCH
F	DOOR HOLDER
3	TAMPER SWITCH
C	LOCAL OPERATING CONSOLE
<u>P</u>	FIRE ALARM CONTROL PANEL
A	FIRE ALARM ANNUNCIATOR
C	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL
TT	BATTERY CABINET
	FIRE ALARM DOCUMENTATION CABINET
ГС	FIRE ALARM TERMINAL CABINET
<b></b>	1-HOUR FIRE BARRIER
◆	2-HOUR FIRE BARRIER
	SMOKE BARRIER
	NOT IN SCOPE



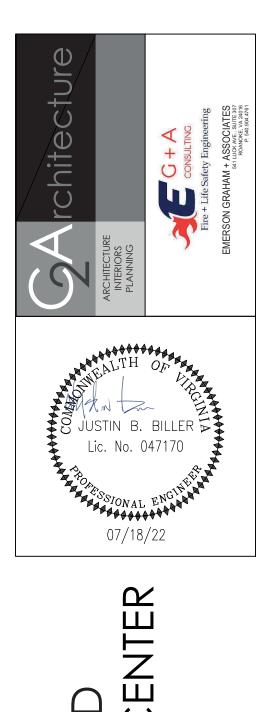
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REVISIONS							
No.	DATE	DES	SCRIPTION				
3	7-18-22		NG UPDATES AND FICATIONS				
DRA	WN BY:		KNS				
	DBY:		JBB				
DAT			7/18/22				
SCA	LE:		AS SHOWN				
BUILI	DING 2 & 3	3 GR	OUND FLOOR				
FIRE	ALARM EN	NLAR	GED PARTIAL				
	PLAN - AREA 4						
	FA101.4						
	SHEET	7	of _22				



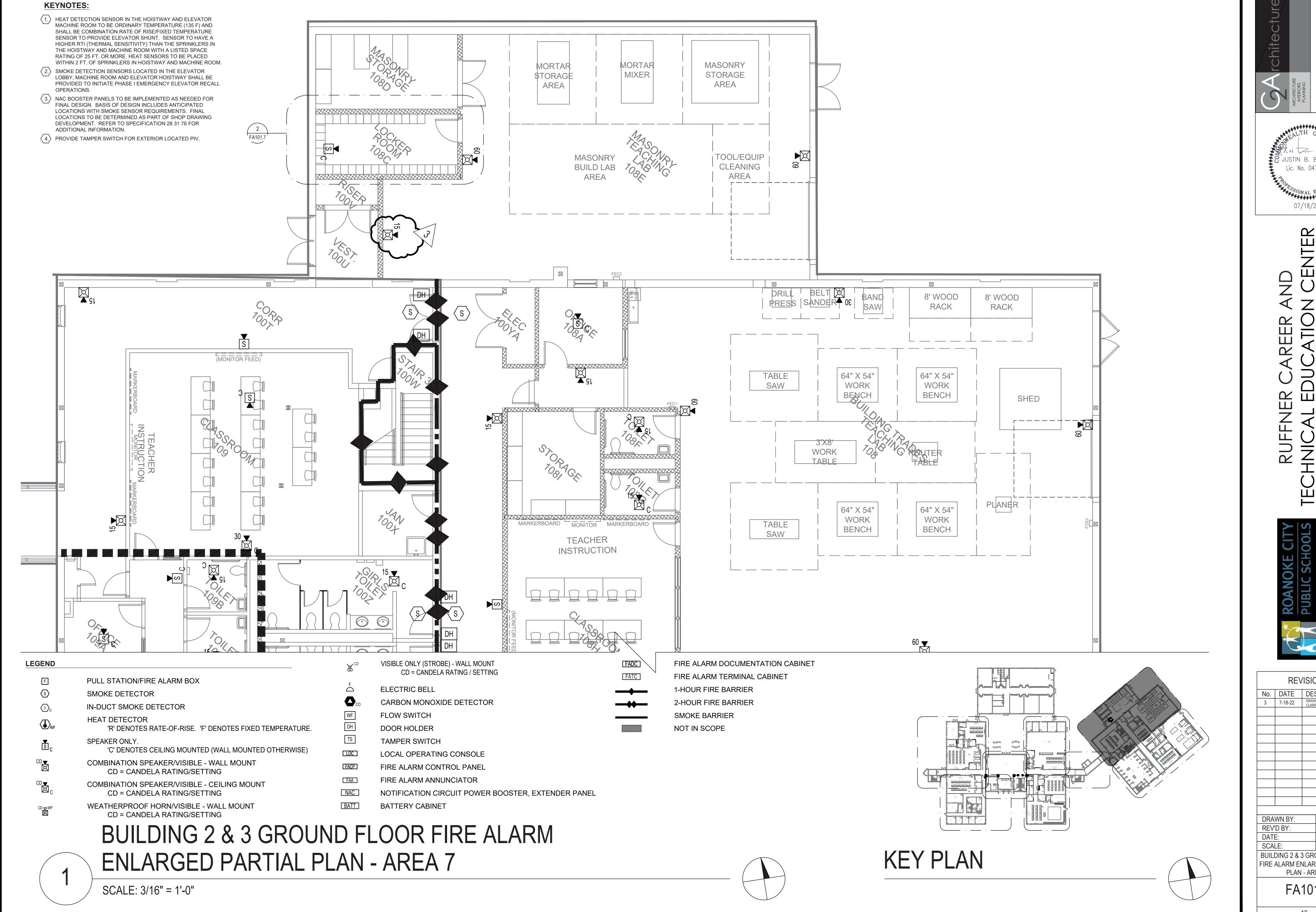
	PULL STATION/FIRE ALARM BOX
	SMOKE DETECTOR
)	IN-DUCT SMOKE DETECTOR
R/F	HEAT DETECTOR 'R' DENOTES RATE-OF-RISE. 'F' DENOTES FIXED TEMPERATURE.
C	SPEAKER ONLY. 'C' DENOTES CEILING MOUNTED (WALL MOUNTED OTHERWISE)
	COMBINATION SPEAKER/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
C	COMBINATION SPEAKER/VISIBLE - CEILING MOUNT CD = CANDELA RATING/SETTING
Ρ	WEATHERPROOF HORN/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
CD	VISIBLE ONLY (STROBE) - WALL MOUNT CD = CANDELA RATING / SETTING
	ELECTRIC BELL
co	CARBON MONOXIDE DETECTOR
	FLOW SWITCH
	DOOR HOLDER
	TAMPER SWITCH
]	LOCAL OPERATING CONSOLE
ו	FIRE ALARM CONTROL PANEL
]	FIRE ALARM ANNUNCIATOR
	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL
	BATTERY CABINET
	FIRE ALARM DOCUMENTATION CABINET
	FIRE ALARM TERMINAL CABINET
	1-HOUR FIRE BARRIER
	2-HOUR FIRE BARRIER
	SMOKE BARRIER
	NOT IN SCOPE



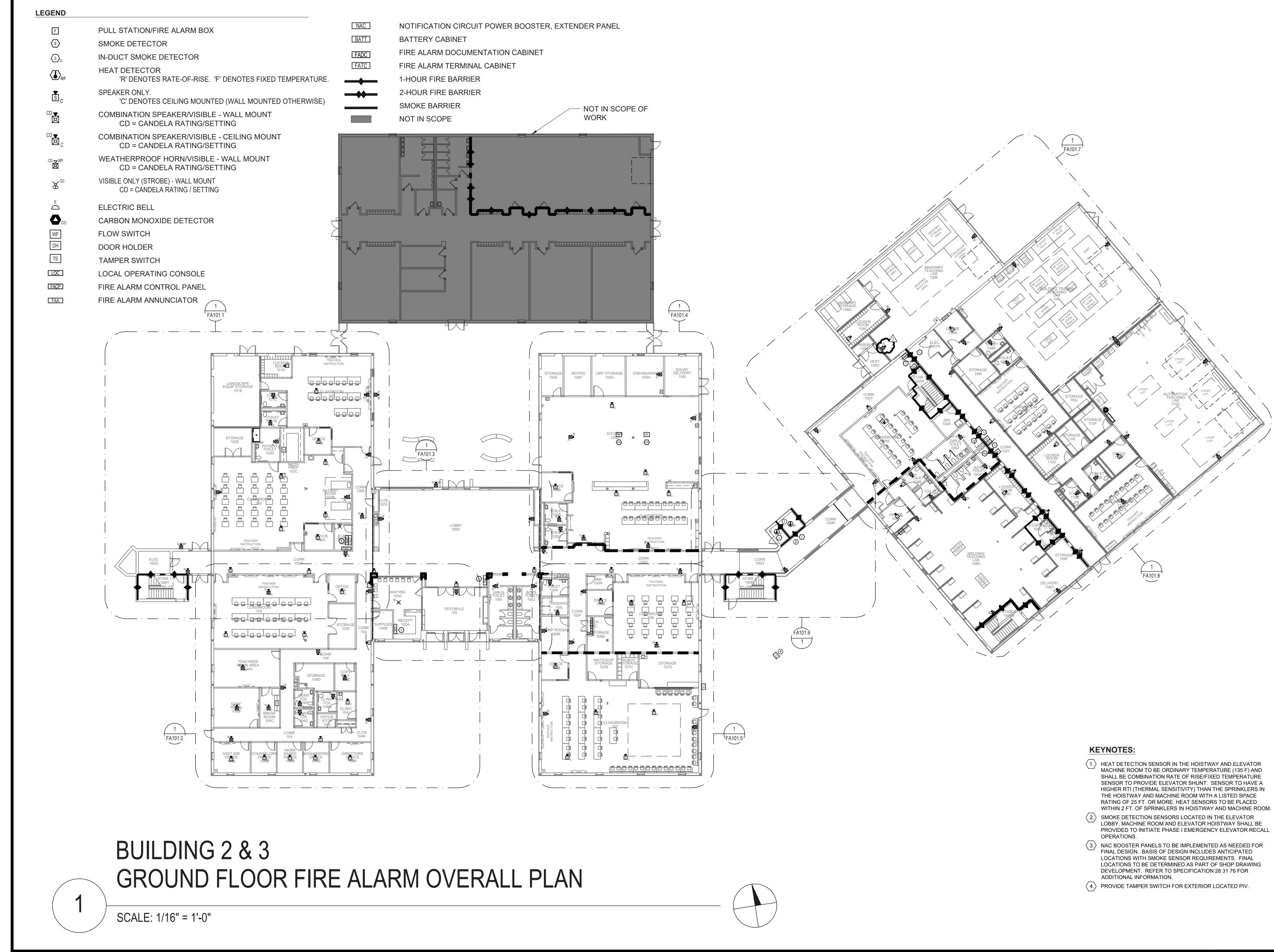
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	REVISIONS						
No.							
3	7-18-22	7-18-22 DRAWING UPDATES AND CLARIFICATIONS					
	<u> </u>						
DRA	WN BY:		KNS				
	'D BY:		JBB				
DAT			7/18/22				
SCA			AS SHOWN				
-			OUND FLOOR				
FIRE			GED PARTIAL				
	PLAN - AREA 5						
	FA	101	1.5				
	SHEET	8	of _22				

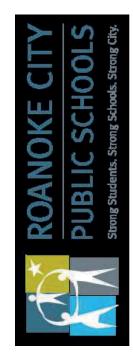




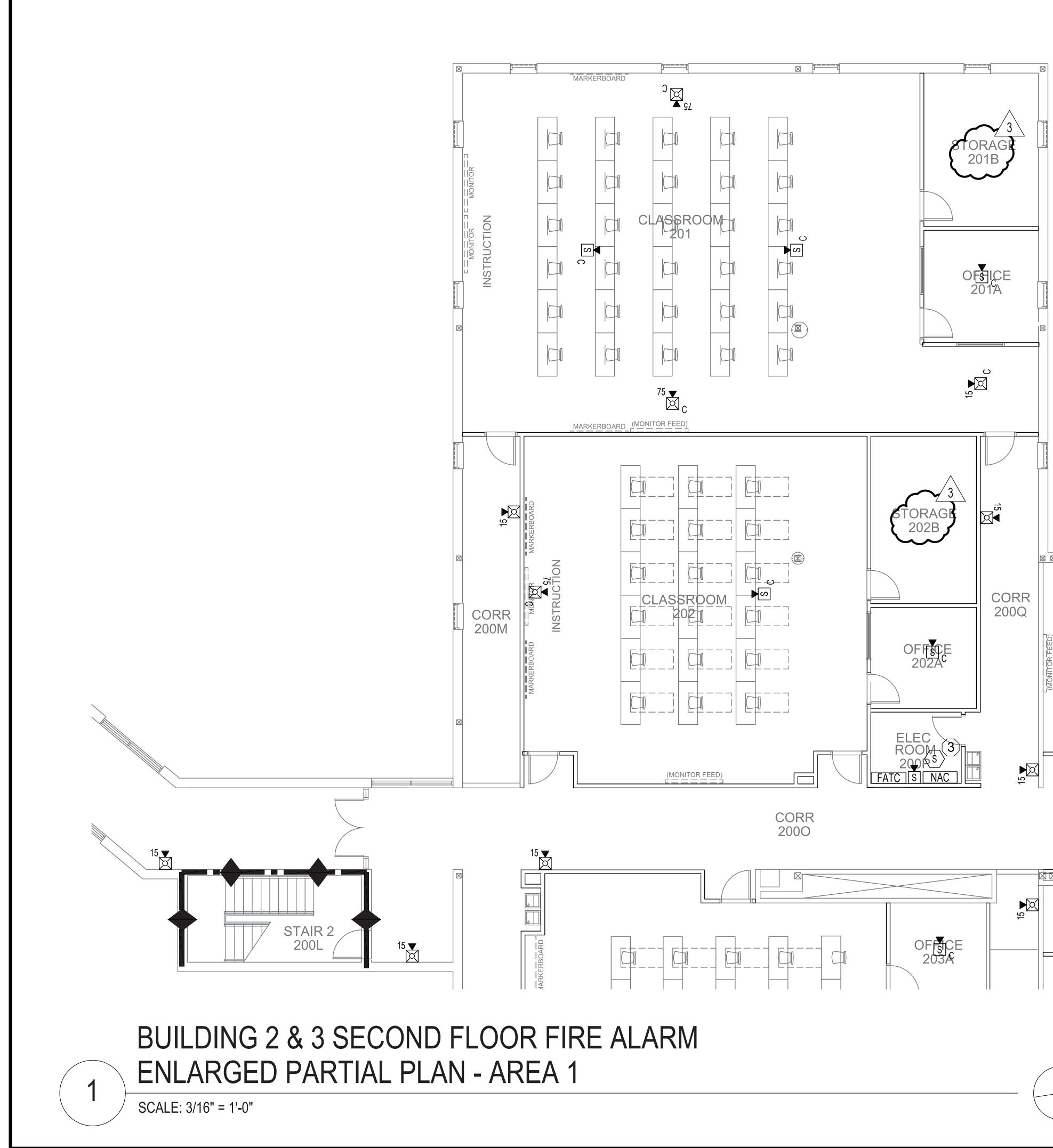


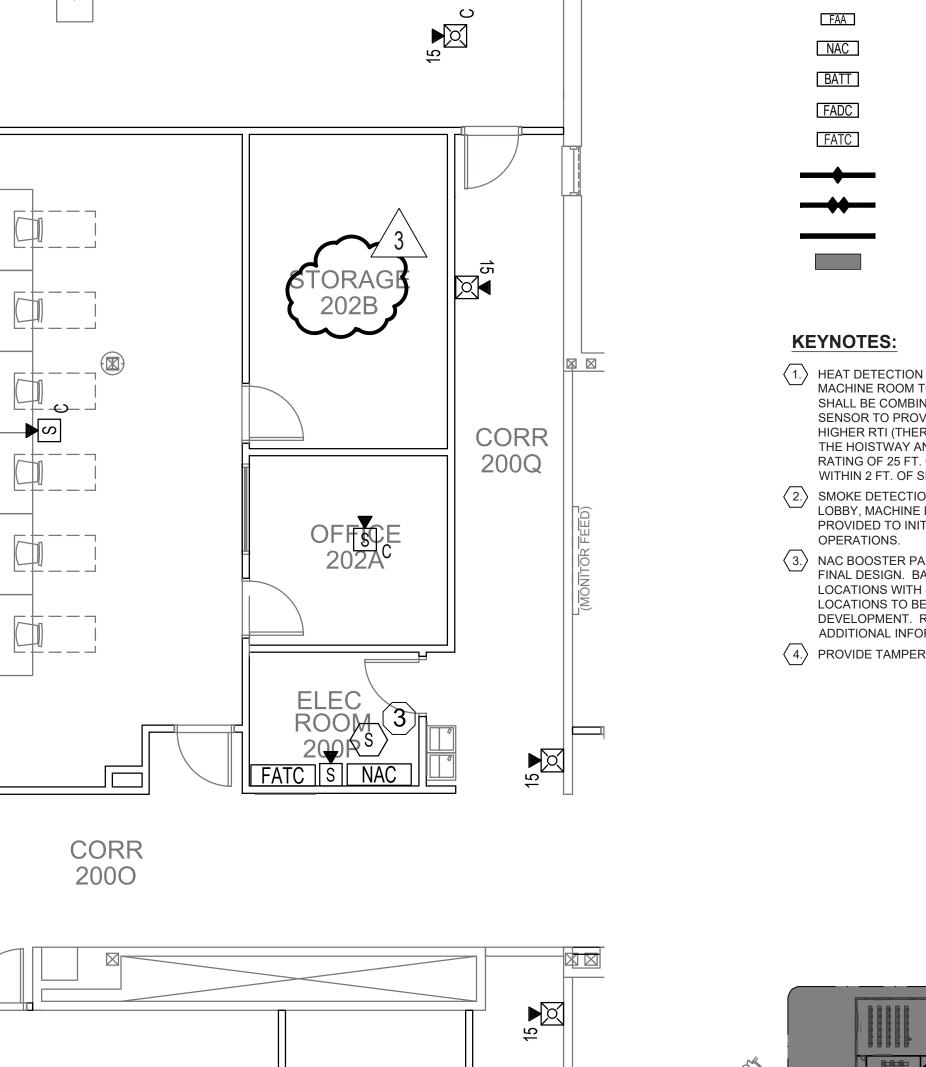


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REVISIONS							
No.	DATE	SCRIPTION					
3	7-18-22	DRAWI	NG UPDATES AND				
		CLARI	FICATIONS				
DRA	WN BY:		KNS				
	D BY:		JBB				
DAT	E:		7/18/22				
SCA	LE:		AS SHOWN				
	BUILDING 2 & 3 GROUND FLOOR						
OV	ERALL FI	KE Al	ARM PLAN				
	FA101						
	SHEET	3	of				





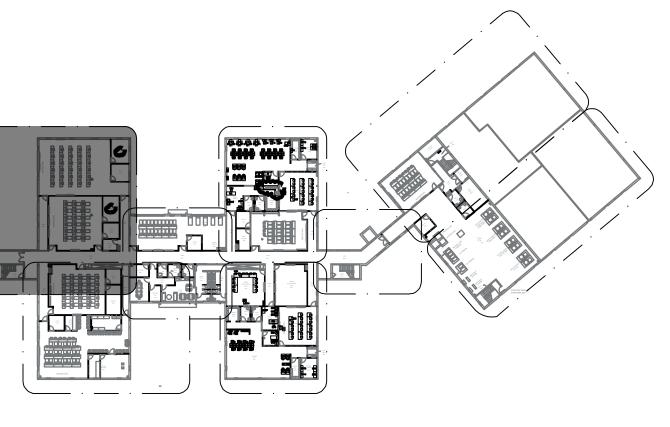
# LEGEND

F	PULL STATION/FIRE ALARM BOX
$\langle S \rangle$	SMOKE DETECTOR
S	IN-DUCT SMOKE DETECTOR
() R/F	HEAT DETECTOR 'R' DENOTES RATE-OF-RISE. 'F' DENOTES FIXED TEMPERATURE.
s <sub>c</sub>	SPEAKER ONLY. 'C' DENOTES CEILING MOUNTED (WALL MOUNTED OTHERWISE)
CD 💌	COMBINATION SPEAKER/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
CD ▼ C	COMBINATION SPEAKER/VISIBLE - CEILING MOUNT CD = CANDELA RATING/SETTING
	WEATHERPROOF HORN/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
$\overleftarrow{X}_{\rm CD}$	VISIBLE ONLY (STROBE) - WALL MOUNT CD = CANDELA RATING / SETTING
Ĕ	ELECTRIC BELL
Co	CARBON MONOXIDE DETECTOR
WF	FLOW SWITCH
DH	DOOR HOLDER
TS	TAMPER SWITCH
LOC	LOCAL OPERATING CONSOLE
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
NAC	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL
BATT	BATTERY CABINET
FADC	FIRE ALARM DOCUMENTATION CABINET
FATC	FIRE ALARM TERMINAL CABINET
	1-HOUR FIRE BARRIER
<b></b>	2-HOUR FIRE BARRIER
	SMOKE BARRIER
	NOT IN SCOPE

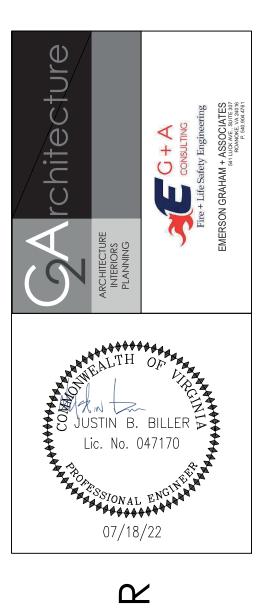
 $\langle 1. \rangle$  HEAT DETECTION SENSOR IN THE HOISTWAY AND ELEVATOR MACHINE ROOM TO BE ORDINARY TEMPERATURE (135 F) AND SHALL BE COMBINATION RATE OF RISE/FIXED TEMPERATURE SENSOR TO PROVIDE ELEVATOR SHUNT. SENSOR TO HAVE A HIGHER RTI (THERMAL SENSITIVITY) THAN THE SPRINKLERS IN THE HOISTWAY AND MACHINE ROOM WITH A LISTED SPACE RATING OF 25 FT. OR MORE. HEAT SENSORS TO BE PLACED WITHIN 2 FT. OF SPRINKLERS IN HOISTWAY AND MACHINE ROOM. 2. SMOKE DETECTION SENSORS LOCATED IN THE ELEVATOR LOBBY, MACHINE ROOM AND ELEVATOR HOISTWAY SHALL BE PROVIDED TO INITIATE PHASE I EMERGENCY ELEVATOR RECALL OPERATIONS.

A Section Content of the section of th

 $\overline{\langle 4. \rangle}$  PROVIDE TAMPER SWITCH FOR EXTERIOR LOCATED PIV.



**KEY PLAN** 

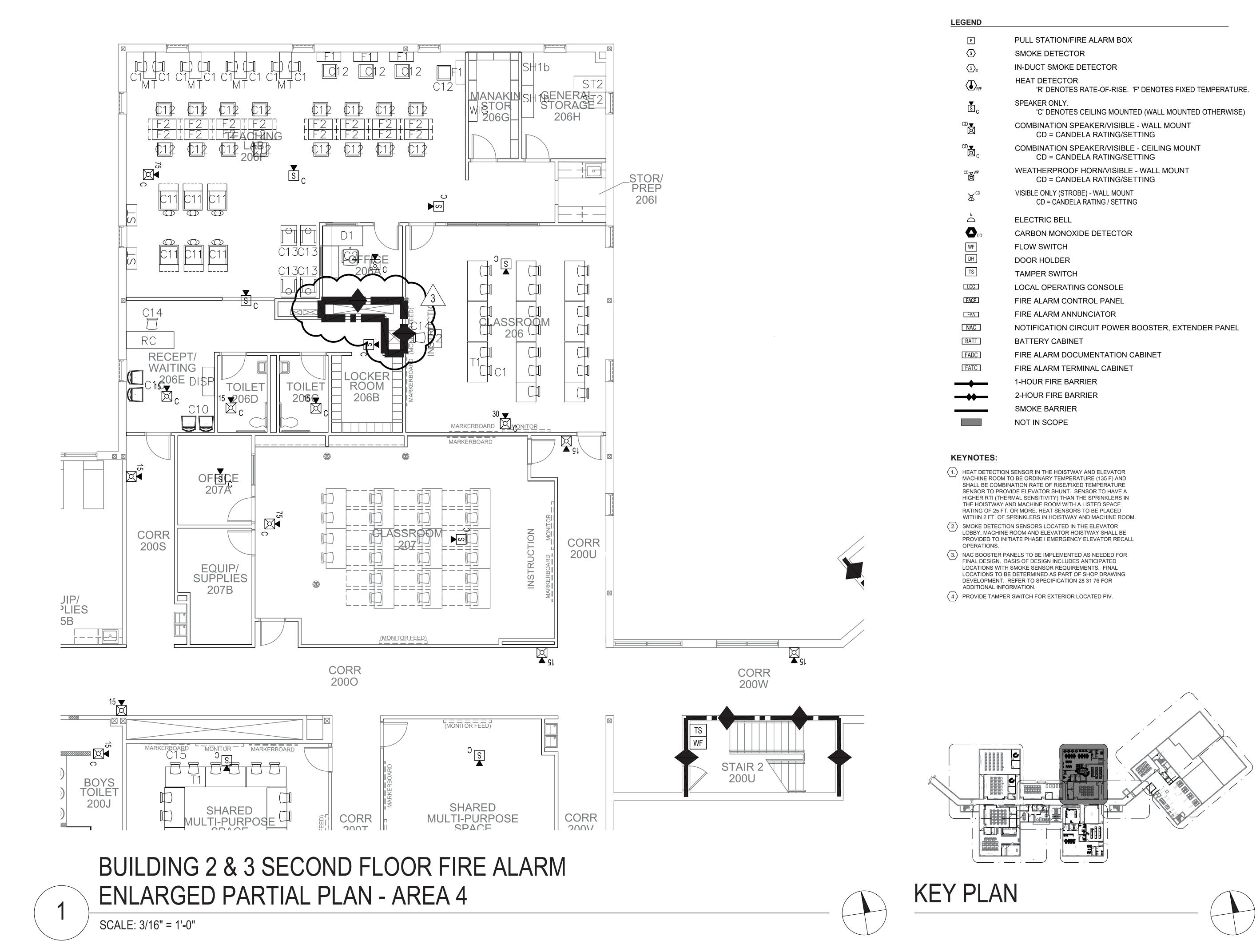


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REVISIONS							
No.	DATE	DESCRIPTION					
3	7-18-22	DRAWING UPDATES AND CLARIFICATIONS					
DRAWN BY:			KNS				
REV'D BY:			JBB				
DATE:			7/18/22				
SCALE:			AS SHOWN				
BUIL	BUILDING 2 & 3 SECOND FLOOR						
FIRE	FIRE ALARM ENLARGED PARTIAL						
PLAN - AREA 1							
FA102.1							
SHEET <u>13</u> of <u>22</u>							



]	PULL STATION/FIRE ALARM BOX
$\rangle$	SMOKE DETECTOR
) ID	IN-DUCT SMOKE DETECTOR
R/F	HEAT DETECTOR 'R' DENOTES RATE-OF-RISE. 'F' DENOTES FIXED TEMPERATURE.
, C	SPEAKER ONLY. 'C' DENOTES CEILING MOUNTED (WALL MOUNTED OTHERWISE)
3	COMBINATION SPEAKER/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
a <sub>c</sub>	COMBINATION SPEAKER/VISIBLE - CEILING MOUNT CD = CANDELA RATING/SETTING
WP	WEATHERPROOF HORN/VISIBLE - WALL MOUNT CD = CANDELA RATING/SETTING
< <sup>CD</sup>	VISIBLE ONLY (STROBE) - WALL MOUNT CD = CANDELA RATING / SETTING
2	ELECTRIC BELL
со	CARBON MONOXIDE DETECTOR
F	FLOW SWITCH
F	DOOR HOLDER
6	TAMPER SWITCH
<u>C</u>	LOCAL OPERATING CONSOLE
<u>P</u>	FIRE ALARM CONTROL PANEL
A	FIRE ALARM ANNUNCIATOR
C	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL
TT	BATTERY CABINET
DC	FIRE ALARM DOCUMENTATION CABINET
ГС	FIRE ALARM TERMINAL CABINET
	1-HOUR FIRE BARRIER
←	2-HOUR FIRE BARRIER
	SMOKE BARRIER
	NOT IN SCOPE

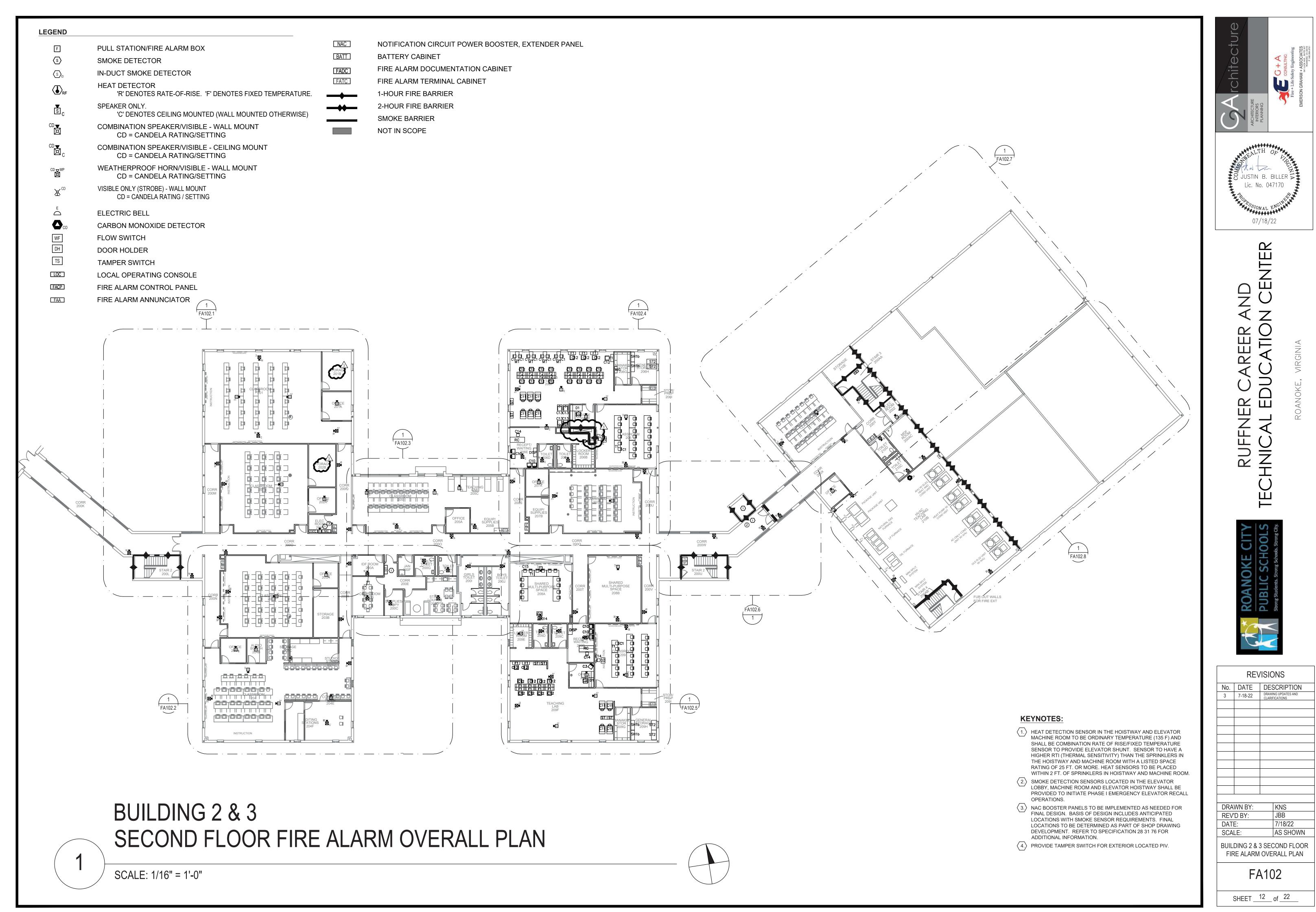
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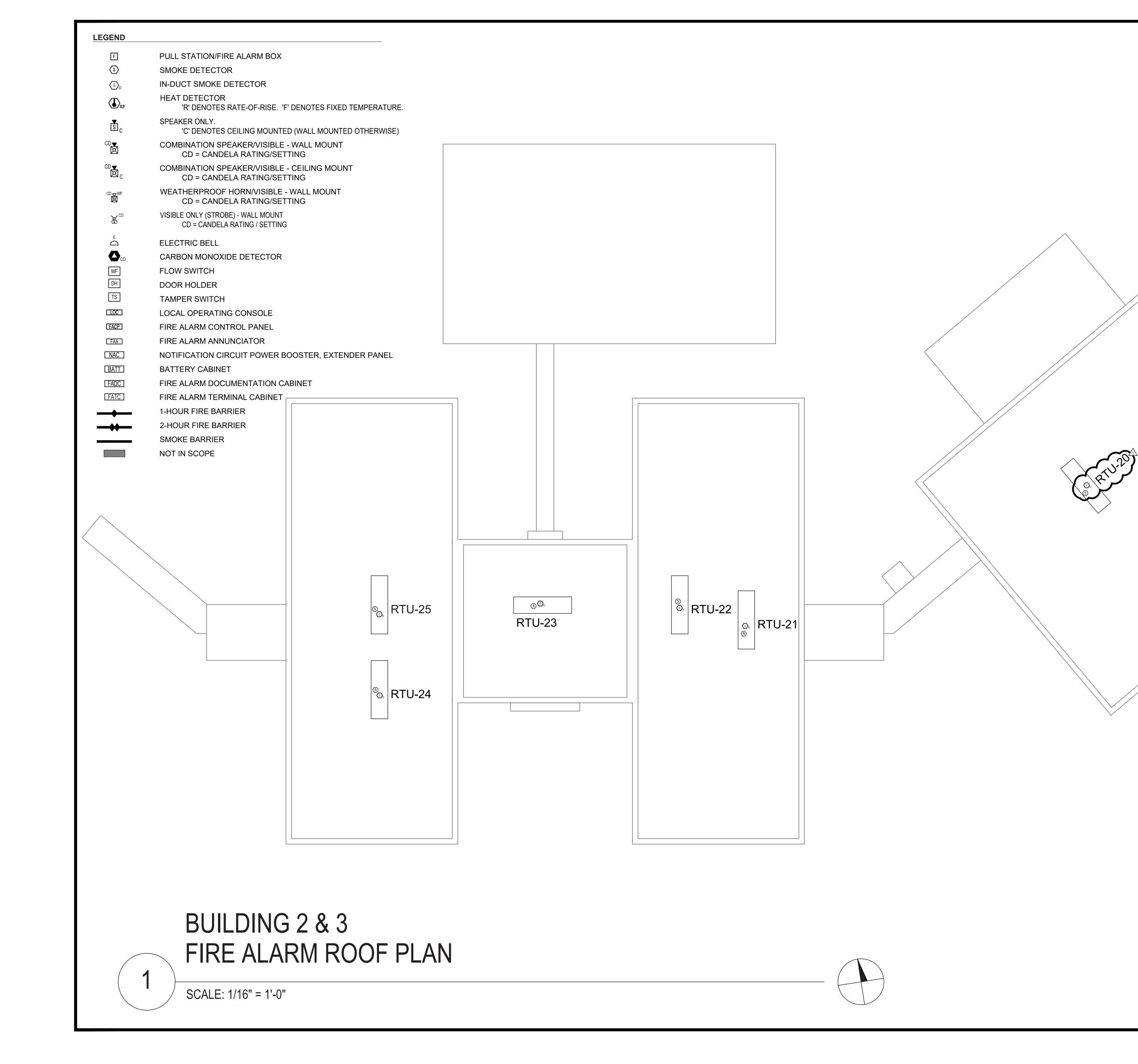


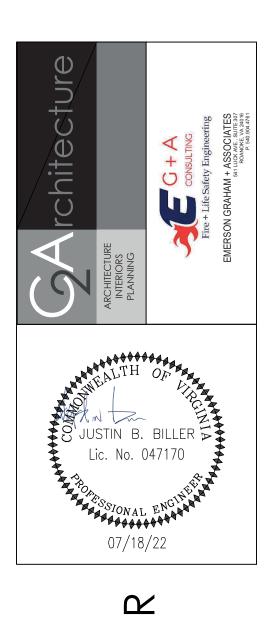


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	BUILDING 2 & 3 SECOND FLOOR						
	FIRE ALARM ENLARGED PARTIAL						
PLAN - AREA 4							
FA102.4							
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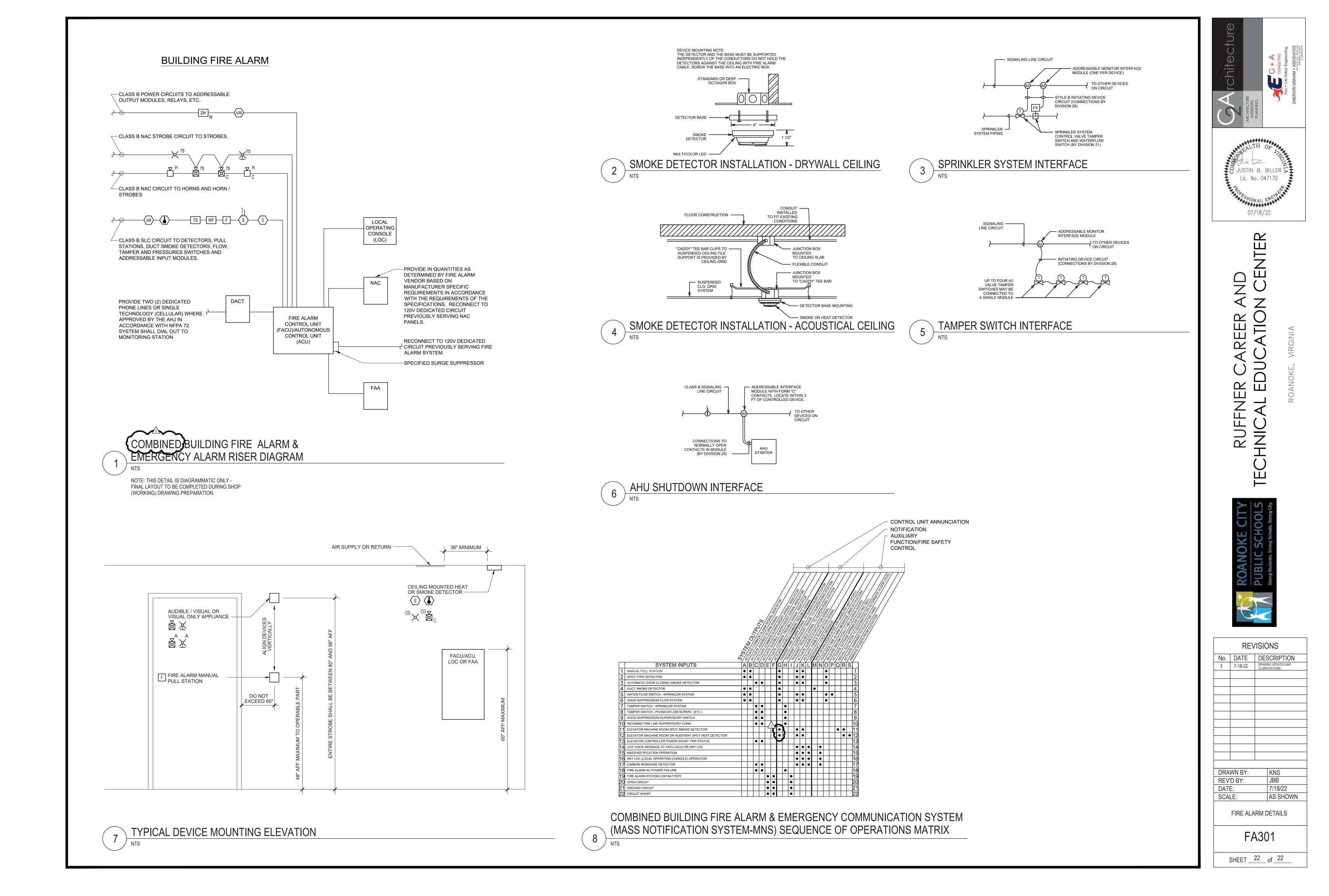
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FIRE ALARM ROOF PLAN					
FA103					
SHEET of					

# **KEYNOTES:**

- 1. HEAT DETECTION SENSOR IN THE HOISTWAY AND ELEVATOR MACHINE ROOM TO BE ORDINARY TEMPERATURE (135 F) AND SHALL BE COMBINATION RATE OF RISE/FIXED TEMPERATURE SENSOR TO PROVIDE ELEVATOR SHUNT. SENSOR TO HAVE A HIGHER RTI (THERMAL SENSITIVITY) THAN THE SPRINKLERS IN THE HOISTWAY AND MACHINE ROOM WITH A LISTED SPACE RATING OF 25 FT. OR MORE. HEAT SENSORS TO BE PLACED WITHIN 2 FT. OF SPRINKLERS IN HOISTWAY AND MACHINE ROOM.
- 2. SMOKE DETECTION SENSORS LOCATED IN THE ELEVATOR LOBBY, MACHINE ROOM AND ELEVATOR HOISTWAY SHALL BE PROVIDED TO INITIATE PHASE I EMERGENCY ELEVATOR RECALL OPERATIONS.
- 3. NAC BOOSTER PANELS TO BE IMPLEMENTED AS NEEDED FOR FINAL DESIGN. BASIS OF DESIGN INCLUDES ANTICIPATED LOCATIONS WITH SMOKE SENSOR REQUIREMENTS. FINAL LOCATIONS TO BE DETERMINED AS PART OF SHOP DRAWING DEVELOPMENT. REFER TO SPECIFICATION 28 31 76 FOR ADDITIONAL INFORMATION.
- 4. PROVIDE TAMPER SWITCH FOR EXTERIOR LOCATED PIV.
  5. PROVIDE NEW DUCT SMOKE DETECTOR. ACTIVATION OF DUCT SMOKE DETECTOR SHALL SHUT UNIT DOWN AND INITIATE SUPERVISORY SIGNAL. PROVIDE ALL REQUIRED HARDWARE PROGRAMMING AND INTERFACE WITH HVAC CONTROLS. REFER TO FA301 AND PROJECT MANUAL SPECIFICATION SECTION 28 51 76 FOR ADDITIONAL INFORMATION.



# **GENERAL NOTES:**

1. DESIGN AND INSTALL WET-PIPE AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH (IAW) THE CODE REQUIREMENTS LISTED BELOW IN ADDITION TO ANY SPECIFIC SYSTEM COMPONENT PRODUCT LISTING. THIS DESIGN SHALL INCLUDE INCLUSION OF THE APPLICABLE PROVISIONS OF THE FOLLOWING DOCUMENTS:

- A. VIRGINIA CONSTRUCTION CODE, 2015
- B. VIRGINIA STATEWIDE FIRE PREVENTION CODE, 2015
- INTERNATIONAL BUILDING CODE (IBC), 2015 WITH VIRGINIA AMENDMENTS
- INTERNATIONAL FIRE CODE (IFC), 2015 WITH STATE D. AMENDMENTS
- E. NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION - AS REF. BY 2015 VCC.
- COORDINATE ALL WORK WITH OTHER BUILDING TRADES AND DESIGN DISCIPLINES. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE AREA OR WORK PRIOR TO THE COMMENCEMENT OF WORK. REFER TO HVAC DRAWINGS FOR LAYOUT OF DUCTWORK AND PROVIDE SPRINKLER COVERAGE AS REQUIRED IN NFPA 13 FOR OBSTRUCTIONS 4 FT. AND WIDER.
- DRAWINGS REPRESENT OVERALL DESIGN INTENT. PROVIDE FINAL DESIGN AND INSTALLATION OF AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13.
- 4. SEAL ALL PENETRATIONS WITH APPROVED THROUGH-PENETRATION FIRESTOPPING SYSTEMS THROUGH FIRE BARRIER WALLS OR FIRE RESISTANCE CONSTRUCTION TO MAINTAIN THE INTEGRITY OF THE SEPARATION IN ACCORDANCE WITH IBC AND PRODUCT LISTINGS.
- 5. ALL SPRINKLER PIPING TO BE CONCEALED ABOVE CEILINGS, UNLESS OTHERWISE SPECIFICALLY INDICATED.
- 6. SPRINKLERS SHALL BE COORDINATED WITH ALL DIFFUSERS, LIGHTING FIXTURES AND CEILING SYSTEMS/SOFFITS AND ANY OTHER FIXED OBSTRUCTIONS AS REGULATED BY NFPA 13.

FERNCLIFF AVE.

- 7. DESIGN AND PROVIDE THE SPRINKLER SYSTEM USING QUICK-RESPONSE SPRINKLERS MEETING DESIGN CRITERIA OF NFPA 13, UNLESS OTHERWISE SPECIFICALLY INDICATED. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13 SECTIONS 6.1, 6.2 AND PRODUCT LISTING. REFER TO FX101 FOR ADDITIONAL DESIGN CRITERION INFORMATION.
- 8. NO PIPE PENETRATIONS OF STRUCTURAL MEMBERS, EXCEPT AS NOTED, ARE PERMITTED WITHOUT APPROVAL OF ARCHITECT AND/OR ENGINEER.
- 9. AVOID RUNNING PIPING ABOVE ELECTRICAL PANELS, SWITCHGEAR, AND SIMILAR EQUIPMENT INCLUDING TELECOMMUNICATION WHERE PRACTICAL, UNLESS THEY SERVE THE RESPECTIVE ROOMS.
- 10. ALL SPRINKLER PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM INDEPENDENT STRUCTURAL SUPPORT SYSTEMS. HANGERS AND OTHER APPROVED PIPING SUPPORTS SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 CHAPTER 9 AND PRODUCT LISTINGS.
- 11. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILING AND CHASES.
- 12. SYSTEM TO BE MONITORED WITH THE BUILDING FIRE ALARM SYSTEM FOR WATERFLOW ALARM AND CONTROL VALVE TAMPER SUPERVISORY SWITCHES IN ACCORDANCE WITH IBC SECTIONS 901.6.1 AND 903.4.1, NFPA 13 SECTION 8.17.1 AND 6.9. REFER TO FIRE ALARM DRAWINGS FOR COORDINATION.
- 13. SPRINKLER DESIGN SHALL FOLLOW HYDRAULIC CALCULATION PROCEDURES OF NFPA 13 CHAPTER 23 AND PROVIDE SUMMARY SHEET FOR HYDRAULIC CALCULATIONS MEETING NFPA 13. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS AND ATTACHMENTS EQUIVALENT TO "WORKING DRAWINGS" DEFINED BY NFPA 13. DESIGN AND HYDRAULIC CALCULATIONS SHALL BE PREPARED BY A QUALIFIED NICET LEVEL III OR IV CERTIFIED DESIGNER (WATER BASED SYSTEMS) OR EQUIVALENT, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED. HYDRAULIC CALCULATIONS SHALL ACCOUNT FOR BOTH NORMAL AND VELOCITY PRESSURES. REFER TO NFPA 13, CH. 23 FOR ADDITIONAL INFORMATION.
- 14. ALL SPRINKLERS IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED CENTER OF TILE AND ON RETURN BENDS.
- 15. PROVIDE A DRAIN ON THE SYSTEM SIDE OF CONTROL VALVE AND

SITE VICINITY DIAGRAM

# SCALE: NTS

NOTE: ALL DIMENSIONS ON THIS DIAGRAM ARE APPROXIMATE. REFER TO CIVIL DRAWINGS FOR PRECISE MEASUREMENTS.

INSTALL VALVE FOR OPERATION OF DRAIN IN ACCORDANCE WITH NFPA 13. ARRANGE PIPING TO DRAIN TO SYSTEM RISER TO THE MAXIMUM EXTENT PRACTICABLE. PROVIDE INSPECTOR'S TEST CONNECTION IN ACCORDANCE WITH NFPA 13.

16. ALL CONTROL VALVES AND FLOW ALARM SWITCHES LOCATED ABOVE FINISHED CEILING SHALL BE ACCESSIBLE AND HAVE NOTIFICATION MARKING TAG FOR THE INSPECTOR.

17. IN AREAS WHERE SPRINKLER LOCATIONS ARE SHOWN (AS APPLICABLE) ON THESE DRAWINGS PROVIDE NUMBER OF SPRINKLERS SHOWN AS A MINIMUM. PROVIDE ADDITIONAL SPRINKLERS AS REQUIRED FOR A COMPLETE SPRINKLER SYSTEM INSTALLATION IN COMPLIANCE WITH NFPA 13. ADDITIONAL SPRINKLERS IN EXCESS OF QUANTITIES INDICATED ON DRAWINGS SHALL BE PROVIDED AT NO ADDITIONAL COST WHEN REQUIRED TO COMPLY WITH NFPA 13 OBSTRUCTION, LOCATION AND SPACING REQUIREMENTS.

18. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF WALLS, CEILING LAYOUT, LIGHTING AND HVAC DIFFUSER LOCATIONS. 19. SPRINKLER PIPING MATERIAL SHALL BE STEEL PIPING TO COMPLY WITH NFPA 13.

20. STANDARD-PRESSURE PIPING SYSTEM COMPONENTS SHALL BE USED UNLESS OTHERWISE SPECIFICIED, CONSISTING OF COMPONENTS LISTED FOR 175 PSIG MINIMUM WORKING PRESSURE. UNDERGROUND PIPING TO MEET WESTERN VIRGINIA WATER AUTHORITY (WVWA) REQUIREMENTS FOR INSTALLATION AND NFPA 13.

22. SYSTEM TO BE PROVIDED WITH FIRE DEPARTMENT CONNECTION AND OUTSIDE EXTERIOR ELECTRIC BELL TO MEET REQUIREMENTS OF THE AHJ, IBC SECTION 903.4.2. REFER TO FIRE ALARM DRAWINGS FOR COORDINATION.

23. BACKFLOW PREVENTER TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND THE VIRGINIA PLUMBING CODE, 2015. PROVISIONS TO BE MADE IN PIPING TO ACCOMMODATE FORWARD FLOW TESTING, IN ACCORDANCE WITH NFPA 13.

24. ALL EQUIPMENT SHALL BE FM APPROVED AND/OR UL LISTED, UNLESS SPECIFICALLY IDENTIFIED OR AS ALLOWED BY NFPA 13.

25. WHERE SPRINKLERS ARE INSTALLED SUBJECT TO MECHANICAL INJURY, LISTED GUARDS SHALL BE PROVIDED IAW NFPA 13.

# CODE ANALYSIS:

FIRE PROTECTION SYSTEMS (VEBC 704; VCC CH. 9) E OCCUPANCY IS CONSIDERED A HIGHER RELATIVE HAZARD RATING THAN GROUP B, PER VEBC SECTION 704, VCC CHAPTER 9 MUST BE CONSIDERED FOR PROPOSED USE GROUPS. SPECIFIC REQUIREMENTS FOR AUTOMATIC FIRE SPRINKLER SYSTEM (VEBC SECTION 704.2) AND FIRE ALARM SYSTEM (VEBC SECTION 704.3) ARE CONSIDERED BELOW IN CONNECTION WITH THE EXISTING SYSTEMS.

WATER-BASED FIRE SUPPRESSION SYSTEMS (903.2.3, 903.3.1.1)

FIRE SPRINKLER REQUIREMENTS: AUTOMATIC SPRINKLER PROTECTION WILL BE RETROFITTED THROUGHOUT THE EXISTING BUILDING TO MEET GROUP E REQUIREMENTS WHERE GROUP E FIRE AREA IS ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE. THE AUTOMATIC FIRE SPRINKLER SYSTEM WILL BE DESIGNED TO MEET HAZARD CRITERION OF NFPA 13. FIRE SPRINKLER HAZARD CLASSIFICATION: HAZARD CLASSIFICATIONS INCLUDE AREAS CONSIDERED AS LIGHT HAZARD, ORDINARY HAZARD IN ACCORDANCE WITH NFPA 13 SECTIONS 5.2 AND 5.3. THE DESIGN CRITERIA ARE PROVIDED ON FX101.

BACKFLOW PREVENTION: A NEW DOUBLE CHECK BACKFLOW PREVENTER SHALL BE PROVIDED FOR BUILDING SPRINKLER RISER.

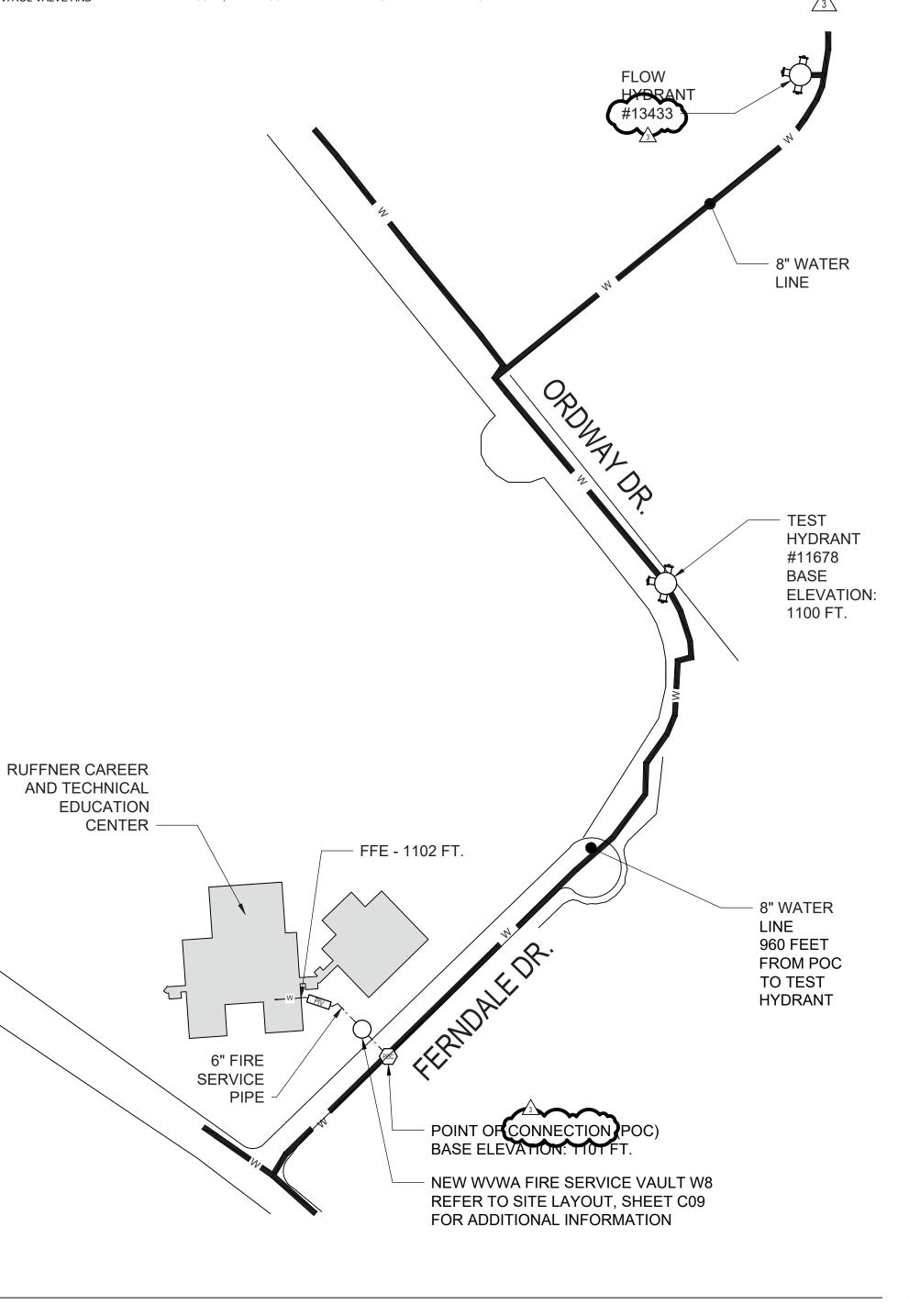
FIRE SPRINKLERS: SPACING SHALL MEET NFPA 13 FOR HAZARD CLASSIFICATIONS.

FIRE SPRINKLER PIPING: FIRE SPRINKLER PIPING TO BE BLACK STEEL PIPE.

STANDPIPE SYSTEM (MANUAL OR AUTOMATIC) IS NOT REQUIRED FOR THIS BUILDING TYPE AND OCCUPANCY IN ACCORDANCE WITH THE IBC SECTION 905.3.1.

#### ALTERNATIVE FIRE SUPPRESSION SYSTEMS

KITCHEN HOOD SUPPRESSION SYSTEM (VCC 904.2.2, 904.5) WET-CHEMICAL FIRE SUPPRESSION SYSTEM TO BE PROVIDED FOR ALL TYPE I HOODS (GREASE COLLECTION) IN ACCORDANCE WITH THE VMC CHAPTER 5 AND NFPA 17A SIGN BY OTHER



## WATER FLOW TEST DATA:

DATE:	03/02/22
STATIC PRESSURE:	73 PSI
RESIDUAL PRESSURE:	61 PSI
FLOW:	1,244 GPM
TEST CONDUCTED BY:	WVWA
TEST HYDRANT:	WVWA #116
FLOW HYDRANT:	WVW/ #134
POC - ADJUSTED HYDRAU SERVICE POINT OF C	JLIC DATA AT FIR
STATIC PRESSURE:	73 PSI

FLOW 1,244 GPM

FOR BIDDING PURPOSES UTILIZE THE FLOW TEST INFORMATION PROVIDED ON SHEET FX001. CONTRACTOR SHALL PERFORM A CONFIRMING WATER FLOW TEST PRIOR TO SYSTEM DESIGN WITHIN THE TIMEFRAMES PERMISSIBLE BY NFPA 13.

RESIDUAL PRESSURE: 52 PSI

## **ABBREVIATIONS:**

A.F.C.	ABOVE FINISHED CEILING
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ARCH.	ARCHITECT
BFP	BACK FLOR PREVENTER
BLK	BLACK
CL	CENTERLINE
CLG.	CEILING
CO	CLEANOUT
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONTR.	CONTRACTOR
DEMO.	DEMOLITION
DIA.	DIAMETER
DN	DOWN
DW	DOMESTIC WATER
DWG.	DRAWING
DSP	DRY STANDPIPE
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
ELEC.	ELECTRICAL
	ELEVATOR
(R)	EXISTING RELOCATED
EQUIP.	EQUIPMENT
EXP	EXPOSED
FD	FLOOR DRAIN

# **DRAWING INDEX**

FX001	FIRE SUPPRESSION CODE DATA

FX101	BUILDING 2 & 3 GROUND FLOOR FIRE SUPPRESSION PLAN
FX102	BUILDING 2 & 3 SECOND FLOOR FIRE SUPPRESSION PLAN

### B - LOCATED AT ORDWAY DR. 33 LOCATED AT FRONTAGE RD.

RE SERVICE LINE / CITY WATER

# BASIS OF CALCULATION: DUCTILE IRON WATER SUPPLY PIPE (C 140)

FX201 FIR	X201 FIRE SUPPRESSION DETAILS			
GENERAL	PLAN SYMBOLS:			
	- STANDPIPE PIPING			
— F —	- WET SPRINKLER PIPING			
D	- DRAIN LINE			
w	WATER SERVICE UTILITY PIPING			
$\neg \neg \neg$	NEW SIDEWALL SPRINKLER HEAD			
	- NEW UPRIGHT SPRINKLER HEAD			
O	- NEW CONCEALED SPRINKLER HEAD			
©	- NEW SEMI-RECESSED SPRINKLER HEAD			
Ð	ELECTRIC BELL			
	- CHECK VALVE			
$\rightarrow$	- SPRINKLER FLOOR CONTROL STATION			
Ο-С	FIRE DEPARTMENT VALVE			
$\rightarrow$	VALVE IN DROP			
	- SHUT-OFF VALVE			
Ă	- O.S.&Y. VALVE WITH TAMPER SWITCH			
×	- MONITORED FIRE VALVE			
	- FLOW SWITCH			
<u>Andre</u>	BACKFLOW PREVENTER			
Q	PRESSURE GAGE & CLOCK			
<b>→</b>	- DIRECTION OF FLOW			
	DIRECTION OF DRAINAGE			
$\longrightarrow$	SIAMESE DIRE DEPARTMENT CONNECTION			
]	STORZ FIRE DEPARTMENT CONNECTION			
0	- SERVICE RISER UP/DOWN			
C	- ELBOW DOWN			
	- UNION OR FLANGED CONNECTION			
	PIPE CAP			
POC	POINT OF CONNECTION NEW TO EXISTING			
$\mathbf{\Phi}$	TERMINATION OF DEMOLITION REMOVAL			
	STANDPIPE RISER DESIGNATION			
€	STANDPIPE RISER DESIGNATION			
Ç.	FIRE HYDRANT			
PIV	POST INDICATOR VALVE			
8'-6"	CEILING HEIGHT			
$\triangle$	PORTABLE FIRE EXTINGUISHER 2-A (2.5 GAL.) WATER			
	K-TYPE (6 L.) WET CHEMICAL			
	20-B (5 LB.) DRY CHEMICAL			
	2 A-20 BC (15 LB ) MULT DUDDOSE DDV OUEMICAL ADC			

2-A:20-BC (15 LB.) MULT-PURPOSE DRY CHEMICAL ABC

2-C (5 LB.) CLEAN AGENT

N.T.S.







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FIRE SUPPRESSION				
CODE DATA				
FX001				
SHEET 1 of 4				

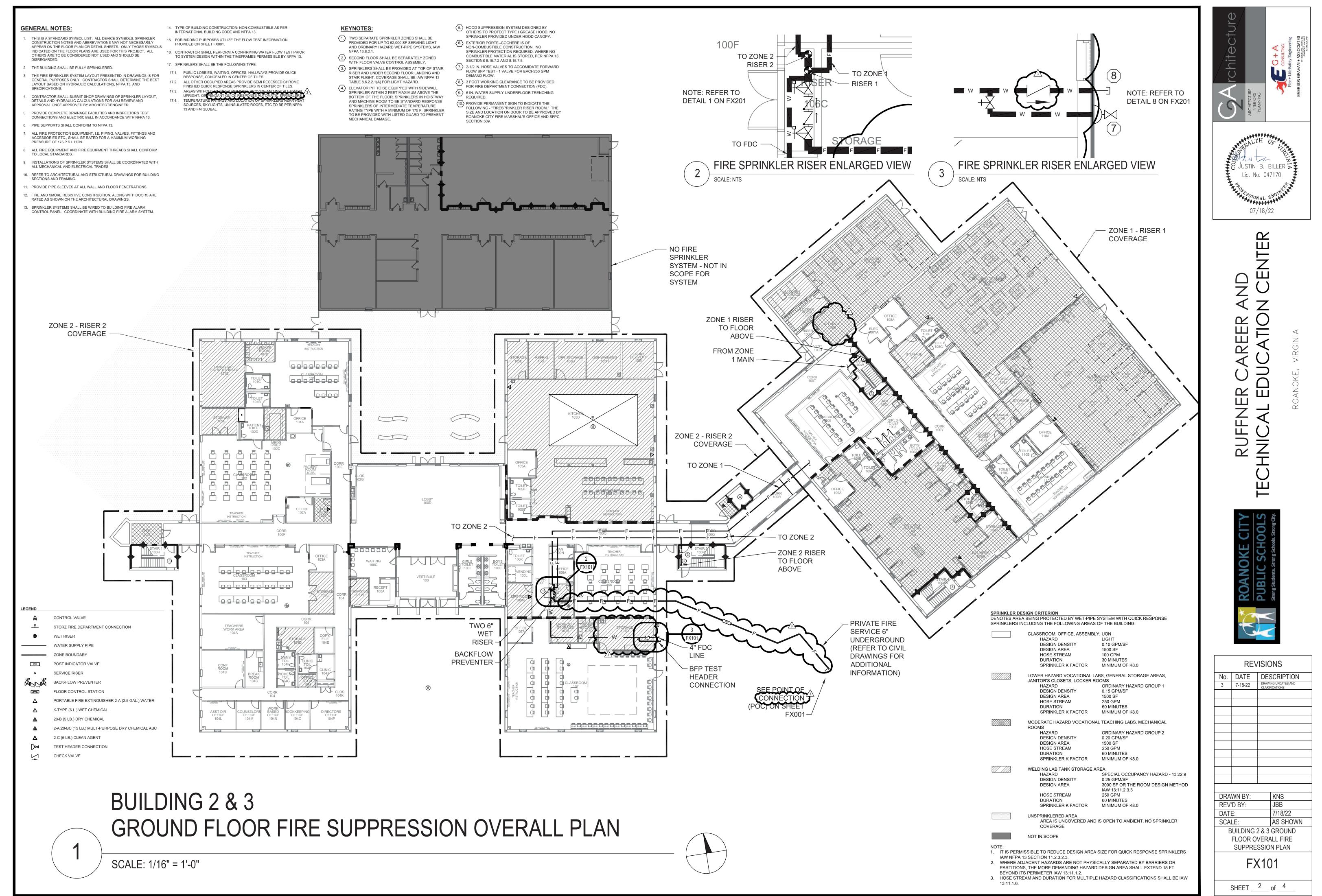
FDV	FIRE DEPARTMENT VALVE	O.D.	OU
FDVC	FIRE DEPARTMENT VALVE CABINET	OS&Y	OU
FEC	FIRE EXTINGUISHER CABINET	P.C.	PLI
FH	FIRE HYDRANT	PIV	PO
FHC	FIRE HOSE CABINET	PRV	PR
FHR	FIRE HOSE RACK	PSI	PO
FL.	FLOOR	PT	PA
FP	FIRE PUMP	REQ.	RE
FS	FLOW SWITCH	RPZ	RE
FUT.	FUTURE	SF	SQ
GA.	GAUGE	SLV.	SLI
G.C.	GENERAL CONTRACTOR	SP	ST
GPM	GALLON PER MINUTE	SPEC.	SP
GWB	GYPSUM WALL BOARD	SPR	SP
HP	HORSEPOWER	STD.	ST.
HT.	HEIGHT	SYS.	SY
HVAC	HEATING, VENTILATING, AIR CONDITIONING	TEMP.	ΤE
I.A.	INSIDE DIMENSION	TS	ΤA
ITC	INSPECTORS TEST CONNECTION	TYP.	ΤY
KW	KILOWATT	U.O.N.	UN
LT.	LIGHT	V	VO
MAX.	MAXIMUM	WHT	WF
MFR.	MANUFACTURER	WP	WE
MIN.	MINIMUM	WSP	WE
MTD.	MOUNTED	*	DIS
(N)	NEW	+	DIS
NC	NORMALLY CLOSED		
NIC	NOT IN CONTRACT		
NO	NORMALLY OPEN		

 $\mathbf{\Delta}$ 

FIRE DEPARTMENT CONNECTION

FDC

NOT TO SCALE
OUTSIDE DIMENSION
OUTSIDE SCREW & YOKE
PLUMBING CONTRACTOR
POST INDICATOR VALVE
PRESSURE REDUCING VALVE
POUNDS PER SQUARE INCH
PAINT
REQUIRED
REDUCED PRESSURE ZONE
SQUARE FEET
SLEEVE
STANDPIPE
SPECIFICATION
SPRINKLER
STANDARD
SYSTEM
TEMPERATURE
TAMPER SWITCH
TYPICAL
UNLESS OTHERWISE NOTED
VOLT
WHITE
WEATHERPROOF
WET STANDPIPE
DISTANCE DOWN FROM CEILING
DISTANCE ABOVE FINISHED FLOOR

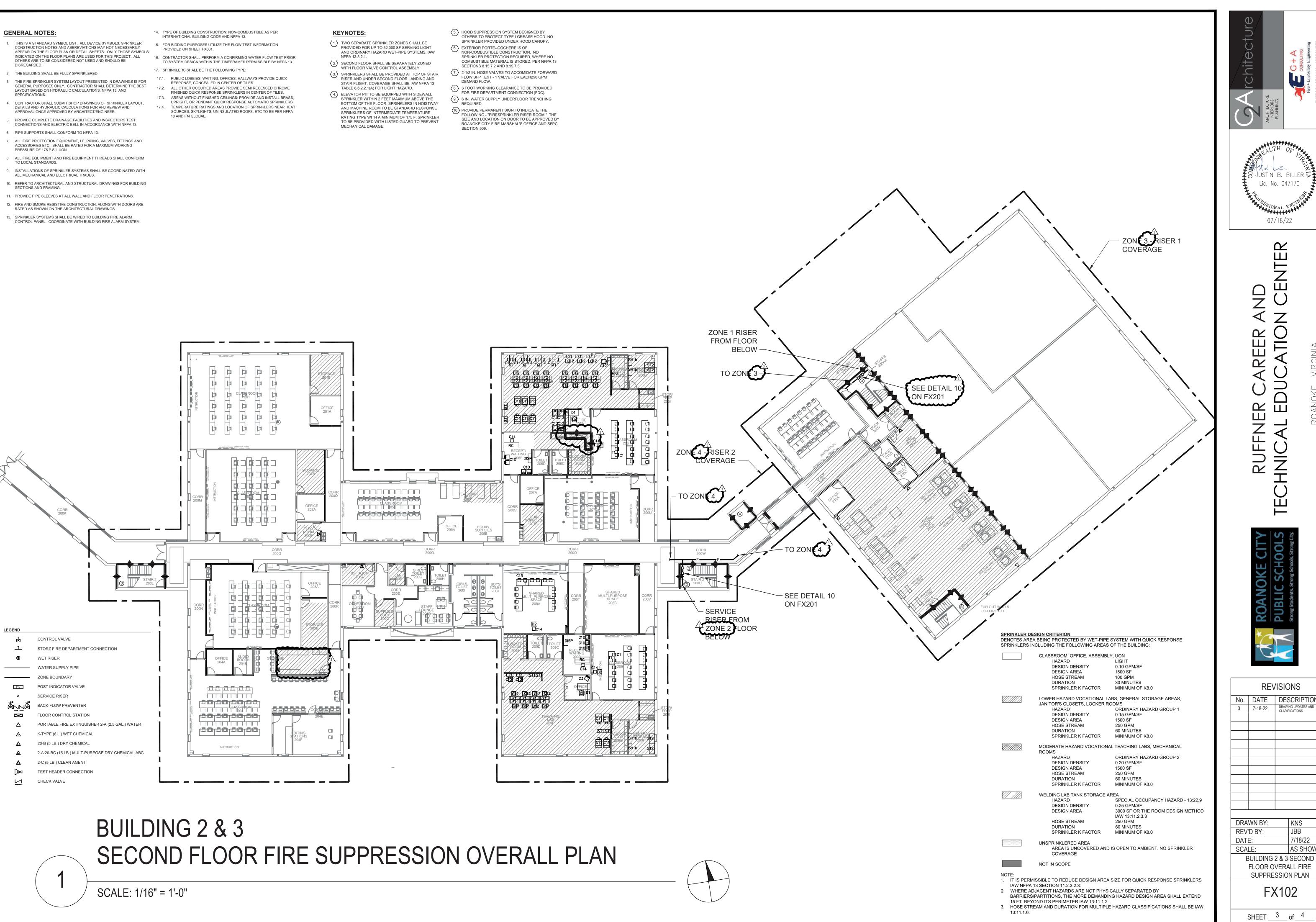


- THIS IS A STANDARD SYMBOL LIST. ALL DEVICE SYMBOLS, SPRINKLER CONSTRUCTION NOTES AND ABBREVIATIONS MAY NOT NECESSARILY OTHERS ARE TO BE CONSIDERED NOT USED AND SHOULD BE DISREGARDED
- LAYOUT BASED ON HYDRAULIC CALCULATIONS, NFPA 13, AND
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF SPRINKLER LAYOUT, DETAILS AND HYDRAULIC CALCULATIONS FOR AHJ REVIEW AND APPROVAL ONCE APPROVED BY ARCHITECT/ENGINEER.
- ACCESSORIES ETC., SHALL BE RATED FOR A MAXIMUM WORKING
- ALL FIRE EQUIPMENT AND FIRE EQUIPMENT THREADS SHALL CONFORM TO LOCAL STANDARDS.
- ALL MECHANICAL AND ELECTRICAL TRADES.

- SPRINKLER SYSTEMS SHALL BE WIRED TO BUILDING FIRE ALARM

- TO SYSTEM DESIGN WITHIN THE TIMEFRAMES PERMISSIBLE BY NFPA 13.
- RESPONSE, CONCEALED IN CENTER OF TILES.
- SOURCES, SKYLIGHTS, UNINSULATED ROOFS, ETC TO BE PER NFPA

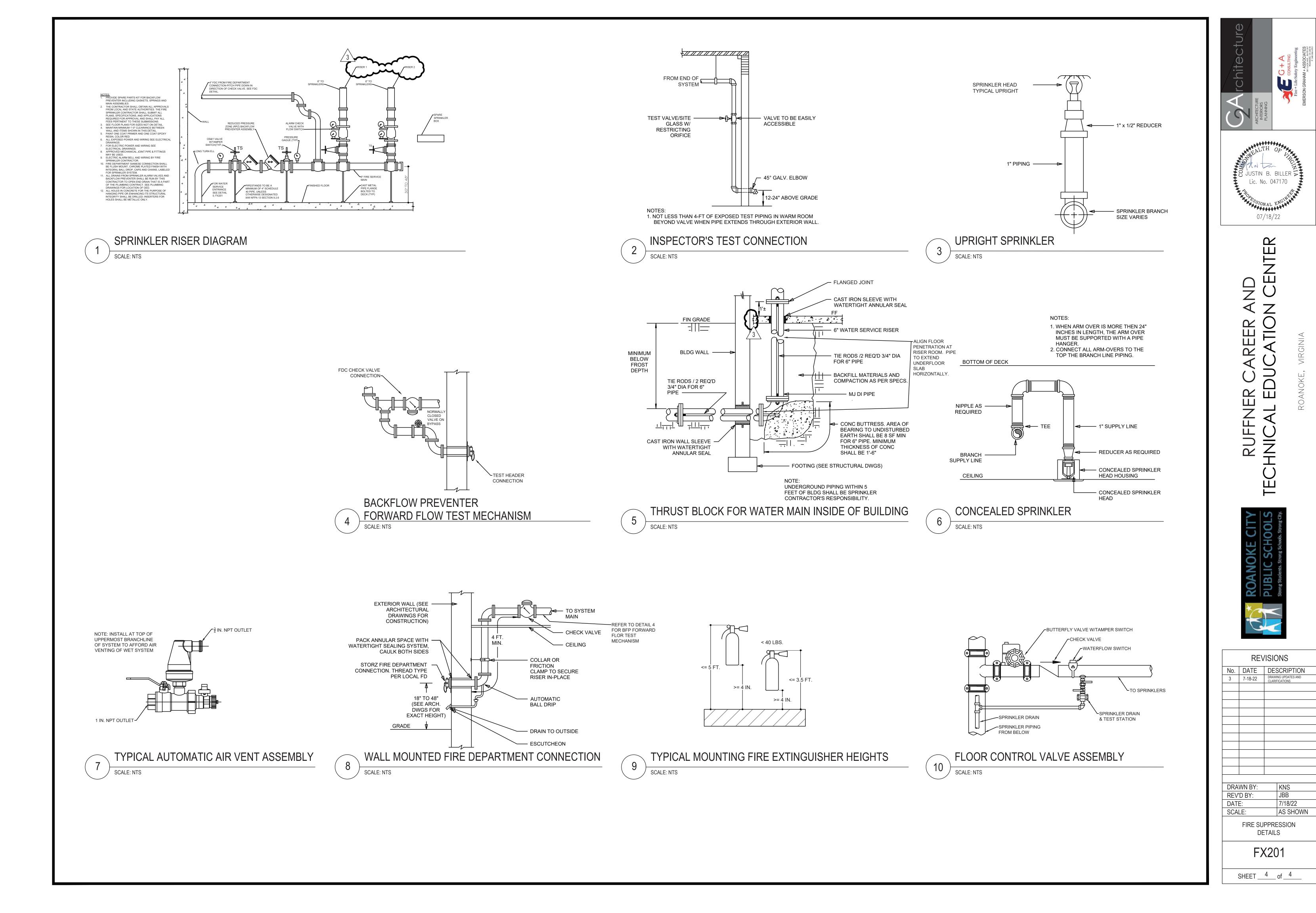
- NFPA 13:8.2.1.





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	BUILDING						
FLOOR OVERALL FIRE							
SUPPRESSION PLAN							
	FX102						
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#### SECTION 099114 - EXTERIOR PAINTING

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:
  - 1. Surface preparation and application of paint systems on the following exterior substrates:
    - a. Concrete.
    - b. Steel.
    - c. Galvanized metal.
- B. Related Requirements:
  - 1. Section 051200 "Structural Steel Framing" for shop priming of metal substrates.
  - 2. Section 055000 "Metal Fabrications" for shop priming metal fabrications.

#### 1.3 DEFINITIONS

- A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D523.
- B. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- C. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.
- D. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.
- E. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- F. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

#### 1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  - 1. Include preparation requirements and application instructions.
  - 2. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
  - 3. Indicate VOC content.
- B. Samples: For each type of topcoat product.
  - 1. Submit Samples on rigid backing, 8 inches (200 mm) square.
  - 2. Apply coats on Samples in steps to show each coat required for system.
  - 3. Label each coat of each Sample.
  - 4. Label each Sample for location and application area.
- C. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings to cross-reference paint systems specified in this Section. Include color designations.

### 1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Paint: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
  - 2. Remove rags and waste from storage areas daily.

#### 1.7 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
  - 1. <u>Behr Paint Company; Behr Process Corporation</u>.
  - 2. <u>Benjamin Moore & Co</u>.
  - 3. <u>Valspar; a brand of The Sherwin-Williams Company</u>.
- B. Source Limitations: Obtain paint from single source from single manufacturer.

#### 2.2 PAINT PRODUCTS

- A. MPI Standards: Provide products complying with MPI standards indicated and listed in its "MPI Approved Products List."
- B. Material Compatibility:
  - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  - 2. For each coat in a paint system, provide products recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- C. Colors: As indicated.

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
  - 1. Application of coating indicates acceptance of surfaces and conditions.

#### 3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
  - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
  1. SSPC-SP 3.
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- G. Aluminum Substrates: Remove loose surface oxidation.

#### 3.3 INSTALLATION

- A. Apply paints in accordance with manufacturer's written instructions and recommendations in "MPI Manual."
  - 1. Use applicators and techniques suited for paint and substrate indicated.
  - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
  - 3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
  - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
  - 5. Primers specified in the Exterior Painting Schedule may be omitted on items that are factory primed or factory finished if compatible with intermediate and topcoat coatings and acceptable to intermediate and topcoat paint manufacturers.

- B. Tint undercoats same color as topcoat but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
  - 1. Paint the following work where exposed to view:
    - a. Uninsulated metal piping.
    - b. Uninsulated plastic piping.
    - c. Pipe hangers and supports.
    - d. Metal conduit.
    - e. Plastic conduit.
    - f. Tanks that do not have factory-applied final finishes.
    - g. Exterior steel bollards.
    - h. Exterior metal security gates (where not prefinished prior to installation).

#### 3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
  - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
  - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written instructions, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written instructions.

#### 3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
  - 1. Do not clean equipment with free-draining water and prevent solvents, thinners, cleaners, and other contaminants from entering into waterways, sanitary and storm drain systems, and ground.
  - 2. Dispose of contaminants in accordance with requirements of authorities having jurisdiction.
  - 3. Allow empty paint cans to dry before disposal.

- 4. Collect waste paint by type and deliver to recycling or collection facility.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

#### 3.6 EXTERIOR PAINTING SCHEDULE

- A. Steel Substrates:
  - 1. Water-Based Light Industrial Coating System MPI EXT 5.1M:
    - a. Prime Coat: Primer, rust inhibitive, as recommended by top coat manufacturer.
    - b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
    - c. Low-Sheen Topcoat: Light industrial coating, exterior, water based (MPI Gloss Level 3), MPI #161.
- B. Galvanized-Metal Substrates:
  - 1. Alkyd System MPI EXT 5.3B:
    - a. Prime Coat: Primer, galvanized
    - b. Intermediate Coat: Exterior, alkyd enamel, matching topcoat.
    - c. Semigloss Topcoat: Alkyd, exterior, semigloss (MPI Gloss Level 5)[, MPI #94].
- C. Aluminum Substrates:
  - 1. Latex System MPI EXT 5.4H:
    - a. Prime Coat: Primer, quick dry, for aluminum, MPI #95.
    - b. Intermediate Coat: Latex, exterior, matching topcoat.
    - c. Low-Sheen Topcoat: Latex, exterior, low sheen (MPI Gloss Level 3-4), MPI #15.

#### END OF SECTION 099114

#### EXTERIOR PAINTING

### SECTION 099124 - INTERIOR PAINTING

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following interior substrates:
  - 1. Concrete masonry units (CMUs).
  - 2. Steel.
  - 3. Galvanized metal.
  - 4. Aluminum (not anodized or otherwise coated).
  - 5. Wood.
  - 6. Gypsum board.
  - 7. Acoustic panels and tiles.
- B. Related Requirements:
  - 1. Section 051200 "Structural Steel Framing" for shop priming structural steel.
  - 2. Section 055000 "Metal Fabrications" for shop priming metal fabrications.
  - 3. Section 099300 "Staining and Transparent Finishing" for surface preparation and the application of wood stains and transparent finishes on interior wood substrates.

#### 1.3 DEFINITIONS

- A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D523.
- B. MPI Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- C. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- D. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.
- E. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.

- F. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- G. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

#### 1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
  - 1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
  - 2. Indicate VOC content.
- B. Samples for Initial Selection: For each type of topcoat product.
- C. Product List: Use same designations indicated on Drawings and in the Interior Painting Schedule to cross-reference paint systems specified in this Section. Include color designations.

#### 1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Paint: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
  - 2. Remove rags and waste from storage areas daily.

#### 1.7 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures of less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.

#### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
  - 1. <u>Behr Paint Company; Behr Process Corporation</u>.
  - 2. <u>Benjamin Moore & Co</u>.
  - 3. <u>Valspar; a brand of The Sherwin-Williams Company</u>.

#### 2.2 PAINT, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products List."
- B. Material Compatibility:
  - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- C. Colors: As indicated in a color schedule.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
  - 1. Masonry (Clay and CMUs): 12 percent.
  - 2. Wood: 15 percent.
  - 3. Gypsum Board: 12 percent.
- C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- D. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- E. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

#### 3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
  - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.
- E. Steel Substrates: Remove rust, loose mill scale, and shop primer, if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
  - 1. SSPC-SP 3.
  - 2. SSPC-SP 7/NACE No. 4.
- F. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- G. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- H. Aluminum Substrates: Remove loose surface oxidation.

#### 3.3 INSTALLATION

- A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
  - 1. Use applicators and techniques suited for paint and substrate indicated.

- 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
- 3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
- 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Painting Fire-Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
  - 1. Paint the following work where exposed in storage and equipment rooms unless noted otherwise:
    - a. Uninsulated metal piping.
    - b. Uninsulated plastic piping.
    - c. Pipe hangers and supports.
    - d. Metal conduit.
    - e. Plastic conduit.
    - f. Tanks that do not have factory-applied final finishes.
    - g. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
    - h. Exposed new and existing structure and metal deck.
  - 2. Paint the following work where exposed in occupied spaces:
    - a. Equipment, including panelboards.
    - b. Uninsulated metal piping.
    - c. Uninsulated plastic piping.
    - d. Pipe hangers and supports.
    - e. Metal conduit.
    - f. Plastic conduit.
    - g. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
    - h. Other items as directed by Architect.

- 3. Paint the following work of color noted at exposed ceiling in the ground floor Lobby (100D):
  - a.
  - b. Cold Water piping: BLUE
  - c. Hot water utility piping: RED
  - d. Communication Raceway/Conduit: ORANGE
  - e. Metal Electrical Conduit: GREEN
  - f. Fire Suppression piping: RED (if not prefinished RED prior to installation)
  - g. Radial Ductwork: Exposed (not painted)
  - h. Natural Gas: YELLOW
  - i. Uninsulated HVAC piping: WHITE.
  - j. Other utility service piping or conduit as directed by Architect.
- 4. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.

#### 3.4 FIELD QUALITY CONTROL

- A. Dry-Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry-film thickness.
  - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
  - 2. If test results show that dry-film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry-film thickness that complies with paint manufacturer's written recommendations.

#### 3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

#### 3.6 INTERIOR PAINTING SCHEDULE

A. Clay Masonry Substrates:

- 1. Location: Existing exposed brick veneer and precast concrete panels in Masonry Teaching Lab (108E).
- 2. Latex System, MPI INT 4.1A:
  - a. Prime Coat: Primer, alkali resistant, water based.
  - b. Intermediate Coat: Latex, interior, matching topcoat.
  - c. Topcoat: Latex, interior, semigloss (MPI Gloss Level 5).
- B. CMU Substrates:
  - 1. Latex System, MPI INT 4.2A:
    - a. Block Filler: Block filler, latex, interior/exterior.
    - b. Intermediate Coat: Latex, interior, matching topcoat.
    - c. Topcoat: Latex, interior, semigloss (MPI Gloss Level 5).
  - 2. Water-Based Light-Industrial Coating System:
    - a. Location: All industrial program spaces (Masonry, Building Trades, Automotive Technology, Welding)
    - b. Block Filler: Latex, interior/exterior.
    - c. Intermediate Coat: Light-industrial coating, interior, water based, matching topcoat.
    - d. Topcoat: Light-industrial coating, interior, water based, semigloss (MPI Gloss Level 5).
- C. Steel Substrates:
  - 1. Latex System, Alkyd Primer, MPI INT 5.1Q:
    - a. Location: All interior exposed steel structure and metal deck surfaces unless noted otherwise.
    - b. Prime Coat: Primer, alkyd, quick dry, for metal, MPI #76.
    - c. Intermediate Coat: Latex, interior, matching topcoat.
    - d. Topcoat: Latex, interior, flat (MPI Gloss Level 1), MPI #53.

- 2. Water-Based Light-Industrial Coating System, MPI INT 5.1B:
  - a. Use: All ferrous metals at existing building structural columns and overhead door steel within industrial program spaces (Masonry, Building Trades, Automotive Technology, Welding) and Kitchen program spaces.
  - b. Prime Coat: Primer, rust inhibitive, water based MPI #107.
  - c. Intermediate Coat: Light-industrial coating, interior, water based, matching topcoat.
  - d. Topcoat: Light-industrial coating, interior, water based, semigloss (MPI Gloss Level 5), MPI #153.
- D. Galvanized-Metal Substrates:
  - 1. Alkyd over Cementitious Primer System, MPI INT 5.3C:
    - a. Prime Coat: Primer, galvanized.
    - b. Intermediate Coat: Alkyd, interior, matching topcoat.
    - c. Topcoat: Alkyd, interior, semigloss (MPI Gloss Level 5), MPI #47.
- E. Gypsum Board Substrates:
  - 1. Latex over Latex Sealer System, MPI INT 9.2A:
    - a. Prime Coat: Primer sealer, latex, interior, MPI #50.
    - b. Intermediate Coat: Latex, interior, matching topcoat.
    - c. Topcoat: Latex, interior (MPI Gloss Level 4), MPI #43.
- F. Acoustic Panels:
  - 1. Latex, Flat System, MPI INT 9.3A:
    - a. Prime Coat: Latex, interior, matching topcoat.
    - b. Topcoat: Latex, interior, flat (MPI Gloss Level 1), MPI #53.

#### END OF SECTION 099124

### SECTION 101400 - SIGNAGE

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Dimensional characters.
    - a. Room and Door Signs
    - b. Interior directional and informational signs
    - c. Building Identification Signs

#### 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product. Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.
- B. Shop Drawings: For signs.
  - 1. Include fabrication and installation details and attachments to other work.
  - 2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
  - 3. Show message list, typestyles, graphic elements, and layout for each sign at least quarter size.
- C. Samples for Initial Selection: For each type of sign assembly, exposed component, and exposed finish.
  - 1. Include representative Samples of available typestyles and graphic symbols.
- D. Samples for Verification: For each type of sign assembly showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:
  - 1. Dimensional Characters: Full-size Sample of each type of dimensional character.
  - 2. Exposed Accessories: Full-size Sample of each accessory type.
  - 3. Full-size Samples, if approved, will be returned to Contractor for use in the Project.
- E. Product Schedule: For dimensional letter signs. Use same designations indicated on Drawings or specified.
  - 1. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.

- a. When room numbers to appear on signs differ from those on drawings, include the drawing room number on schedule.
- b. When content of signs is indicated to be determined later, request such information from Owner through Architect at least 2 months prior to start of fabrication; upon request, submit preliminary schedule.
- c. Submit for approval by Owner through Architect prior to fabrication.
- d. Approximately 170 room signs will be required.

#### 1.3 CLOSEOUT SUBMITTALS

A. Maintenance Data: For signs to include in maintenance manuals.

#### 1.4 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

#### 1.5 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Deterioration of finishes beyond normal weathering.
    - b. Separation or delamination of sheet materials and components.
  - 2. Warranty Period: Minimum five years from date of Substantial Completion.

#### PART 2 - PRODUCTS

#### 2.1 SIGNAGE MANUFACTURERS:

- A. Flat Signs:
  - 1. Basis of Design: Inpro Aspen Collection: www.inprocorp.com
  - 2. Best Sign Systems, Inc: www.bestsigns.com.
  - 3. Mohawk Sign Systems, Inc: www.mohawksign.com.
  - 4. Substitutions: See Section 01 6000 Product Requirements.
- B. Dimensional Letter Signs:
  - 1. Basis of Design: Cosco Industries; Cast Aluminum: <u>www.coscoarchitecturalsigns.com</u>.
  - 2. ASI Sign Systems, Inc.

- 3. Metal Arts.
- 4. Substitutions: See Section 01 6000 Product Requirements.

#### 2.2 SIGNAGE APPLICATIONS:

- A. Room and Door Signs: Provide a sign for every doorway, whether it has a door or not, not including corridors, lobbies, and similar open areas.
  - 1. Sign Type: Flat signs with engraved panel media as specified.
  - 2. Provide "tactile" signage, with letters raised minimum 1/32 inch and Grade II braille.
  - 3. Character Height: 5/8 inch.
  - 4. Sign Dimensions: 6 x 6 inches.
  - 5. Classroom Doors: Identify with room numbers to be identified by owner, not the numbers shown on the drawings.
  - 6. Conference and Meeting Rooms: Identify with room numbers to be identified by owner, not the numbers indicated on drawings; provide "window" section with sliding "In Use/Vacant" indicator.
  - 7. Service Rooms: Identify with room names and numbers to be identified by owner, not those indicated on drawings.
  - 8. Single Use Rest Rooms: Identify with gender-specific pictograms, the names "MEN" and "WOMEN", room numbers to be identified by owner, ADA pictogram, and braille.
  - 9. Gang Student Toilet Rooms: Identify with gender-specific pictograms, the names "BOYS" and "GIRLS", room numbers to be identified by owner, ADA pictogram, and braille.
  - 10. Exit Signs: Identify exterior egress with the word "EXIT", the ADA pictogram, and braille.
  - 11. Elevator Signs: Warning signs in each elevator lobby with the words "IN CASE OF FIRE DO NOT USE ELEVATOR USE STAIRS", the fire and stair pictograms, and braille.
- B. Interior Directional and Informational Signs:
  - 1. Sign Type: Same as room and door signs.
  - 2. Sizes: Up to 20 lines of information including room numbers, program name and directional information per each sign
  - 3. Locations:
    - a. Each side of entrance lobby as directed by Architect
    - b. Entrances from corridors to all stair enclosures; both floors as directed by Architect
    - c. Entrance to connecting corridor from Building 2; both floors as directed by Architect
- C. Building Identification Signs:
  - 1. Use individual dimensional cast aluminum letters
  - 2. Use individual metal letters with the words WILLIAM RUFFNER CAREER AND TECHNICAL EDUCATION CENTER, in format as shown on drawings.
  - 3. Character Height: 14 inches or of minimum height required by authority having jurisdiction (AHJ), whichever is greater.
  - 4. Character Depth: 2 inches
  - 5. Mount on face of exterior wall location indicated on drawings

- D. Building Entrance Sign:
  - 1. Use individual dimensional plastic numbers.
  - 2. Number Height: 12 inches or of minimum height required by authority having jurisdiction (AHJ), whichever is greater.
  - 3. Mount on face of exterior wall location indicated on drawings.

#### 2.3 SIGNAGE MATERIAL AND FABRICATION

- A. Flat Signs: Signage media without frame.
  - 1. Edges: Square.
  - 2. Corners: Square.
  - 3. Wall Mounting of One-Sided Signs: Tape adhesive.
- B. Color and Font: All signage unless otherwise indicated:
  - 1. Character Font: Helvetica, Arial, or other sans serif font.
  - 2. Character Case: Upper case only.
  - 3. Background Color: As selected by Architect from manufacturer's standard colors.
  - 4. Character Color: Contrasting color.
- 2.4 TACTILE SIGNAGE MEDIA
  - 1. Engraved Panels: Laminated colored plastic; engraved through face to expose core as background color:
  - 2. Total Thickness: 1/8 inch.

#### 2.5 DIMENSIONAL LETTERS

- 1. Metal Letters:
  - a. Metal: Aluminum casting.
  - b. Finish: Brushed, satin.
  - c. Mounting: Concealed screws.
- 2. Plastic Letters:
  - a. Material: Injection molded plastic.
  - b. Color: As selected.
  - c. Mounting: Concealed screws or adhered to glazing as indicated.

#### 2.6 ACCESSORIES

- 1. Concealed Screws: Stainless steel, galvanized steel, chrome plated, or other noncorroding metal.
- 2. Tape Adhesive: Double sided tape, permanent adhesive.

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION OF DIMENSIONAL CHARACTERS

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
  - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
  - 2. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
  - 3. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.
- B. Mounting Methods:
  - 1. Dimensional Letters:
    - a. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.
    - b. Back Bar and Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position, so that signage is correctly located and aligned.
  - 2. Adhered Signage:
    - a. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.
    - b. Two-Face Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.

### 3.3 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 101419

#### SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Public-use toilet room accessories.
  - 2. Private-use toilet room accessories.
  - 3. Under-lavatory guards.
- B. Related Requirements:
  - 1. Section 093013 "Ceramic Tiling" for ceramic toilet and bath accessories.

#### 1.2 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
  - 2. Include anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
- B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
  - 1. Identify locations using room designations indicated.

#### 1.4 INFORMATIONAL SUBMITTALS

A. Sample Warranty: For manufacturer's special warranties.

#### 1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For accessories to include in maintenance manuals.

#### PART 2 - PRODUCTS

#### 2.1 OWNER-FURNISHED AND INSTALLED ACCESSORIES

- A. Owner-Furnished Materials:
  - 1. Soap dispensers
  - 2. Paper towel dispensers
  - 3. Sanitary napkin dispensers.

#### 2.2 PUBLIC-USE TOILET ROOM ACCESSORIES

- A. Toilet accessories in quantities noted for each accessory are to be provided in the following rooms:
  - 1. 100I Girls Toilet
  - 2. 100J Boys Toilet
  - 3. 100Z Girls Toilet
  - 4. 100AA Boys Toilet
  - 5. 200I Girls Toilet
  - 6. 200J Boys Toilet
- B. Source Limitations: Obtain each type of public-use washroom accessory from single source from single manufacturer.
- C. Toilet Tissue (Roll) Dispenser
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Description: Double-roll dispenser
  - 3. Mounting: Partition and wall mounted.
  - 4. Quantity per room: 3
  - 5. Operation: Spindle less with tension-spring controlled delivery and self-locking device extending through core that prevents core removal until roll is empty
  - 6. Capacity: 5-inch- (127-mm-) diameter tissue rolls.
  - 7. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)

- D. Waste Receptacle
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Mounting: Surface mounted.
  - 3. Quantity per room: 1
  - 4. Designed for nominal 6-inch (150-mm) masonry wall depth.
  - 5. Minimum Waste-Receptacle Capacity: 4 gal. (15 L).
  - 6. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
  - 7. Liner: Removable seamless stainless steel receptacle.
  - 8. Lockset: Tumbler type for and waste receptacle.
  - 9. Seamless lower door for access to container. reinforced panel full height of door, continuously welded bottom pan and seamless exposed flanges.
- E. Grab Bars
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Mounting: Flanges with concealed fasteners.
  - 3. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
    - a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin) on ends and slip-resistant texture in grip area.
  - 4. Outside Diameter: 1-1/4 inches (32 mm).
  - 5. Configuration and Length: As indicated on Drawings
  - 6. Quantity per room: 2; length as indicated
- F. Sanitary-Napkin Disposal Unit
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Mounting: Recessed.

- 3. Door or Cover: Self-closing, disposal-opening cover and hinged face panel with tumbler lockset.
- 4. Receptacle: Removable.
- 5. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
- 6. Quantity per room: 3
- G. Purse Shelf
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc.</u>
    - c. <u>Bradley Corporation</u>.
  - 2. Description: Fixed rectangular unit
  - 3. Nominal Size: 36 inches (381 mm) long by 5-1/2 inches (140 mm) wide
  - 4. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
  - 5. Quantity per room: 1
- H. Mirror Unit
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.

In "Frame" Subparagraph below, options for tilted and adjustable tilting mirrors are for use by people with disabilities. Adjustable tilting mirrors are prone to vandalism. In lieu of tilted mirrors, standard flat mirrors can be mounted at heights to accommodate users in wheelchairs.

- 2. Frame: Stainless steel angle, 0.05 inch (1.3 mm) thick; Stainless steel, adjustable tilt at one sink per toilet room.
  - a. Corners: Welded and ground smooth.
- 3. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.
- 4. Size: 24 inches wide x 40 inches high
- 5. Quantity per room: 3
- 6. Hangers: Manufacturer's standard rigid, tamper and theft resistant

### 2.3 PRIVATE-USE TOILET ROOM ACCESSORIES

- A. Toilet accessories in quantities noted for each accessory are to be provided in the following rooms:
  - 1. 101B Toilet

- 2. 101C Toilet
- 3. 102D Patient Toilet
- 4. 104F Mens Toilet
- 5. 104G Womens Toilet
- 6. 104H Clinic Toilet
- 7. 100K Toilet
- 8. 105B Toilet
- 9. 105C Toilet
- 10. 108F Toilet
- 11. 108G Toilet
- 12. 109B Toilet
- 13. 108C Toilet
- 14. 110B Toilet
- 15. 110C Toilet
- 16. 200G Staff Toilet
- 17. 200H Toilet
- 18. 206C Toilet
- 19. 206D Toilet
- 20. 209C Toilet
- 21. 209D Toilet
- 22. 210C Toilet 23. 210D Toilet
- B. Source Limitations: Obtain each type of private-use bathroom accessory from single source from single manufacturer.
- C. Private-Use Toilet Tissue (Roll) Dispenser
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Description: Double-roll dispenser
  - 3. Mounting: Wall surface mounted.
  - 4. Quantity per room: 1
  - 5. Operation: Spindle less with tension-spring controlled delivery and self-locking device extending through core that prevents core removal until roll is empty
  - 6. Capacity: 5-inch- (127-mm-) diameter tissue rolls.
  - 7. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
- D. Private-Use Sanitary-Napkin Disposal Unit
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:

- a. <u>ASI-American Specialties, Inc</u>.
- b. <u>Bobrick Washroom Equipment, Inc</u>.
- c. <u>Bradley Corporation</u>.
- 2. Mounting: Surface.
- 3. Door or Cover: Self-closing, disposal-opening cover and hinged face panel with tumbler lockset.
- 4. Receptacle: Removable.
- 5. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
- 6. Quantity per room: 1
- E. Private-Use Mirror Unit
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Frame: Stainless steel angle, 0.05 inch (1.3 mm) thick; Stainless steel, adjustable tilt.
    - a. Corners: Welded and ground smooth.
  - 3. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.
  - 4. Size: 24 inches wide x 40 inches high
  - 5. Hangers: Manufacturer's standard rigid, tamper and theft resistant
  - 6. Quantity per room: 1
- F. Grab Bars
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. ASI-American Specialties, Inc.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Mounting: Flanges with concealed fasteners.
  - 3. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
    - a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin) on ends and slip-resistant texture in grip area.
  - 4. Outside Diameter: 1-1/4 inches (32 mm).
  - 5. Configuration and Length: As indicated on Drawings
  - 6. Quantity per room: 2; length as indicated

- G. Waste Receptacle
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. <u>ASI-American Specialties, Inc</u>.
    - b. <u>Bobrick Washroom Equipment, Inc</u>.
    - c. <u>Bradley Corporation</u>.
  - 2. Mounting: Semi-recessed.
  - 3. Quantity per room: 1
  - 4. Coordinate receptacle depth with wall depth and type.
  - 5. Minimum Waste-Receptacle Capacity: 4 gal. (15 L).
  - 6. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
  - 7. Liner: Removable seamless stainless steel receptacle.
  - 8. Lockset: Tumbler type for and waste receptacle.
  - 9. Seamless lower door for access to container; reinforced panel full height of door; continuously welded bottom pan and seamless exposed flanges.
- H. Underlavatory Guard
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:
    - a. Buckaroos, Inc.
    - b. <u>Plumberex Specialty Products, Inc</u>.
    - c. <u>Truebro; IPS Corporation</u>.
  - 2. Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping; allow service access without removing coverings.
  - 3. Material and Finish: Antimicrobial, molded plastic, white.

#### 2.4 CUSTODIAL ACCESSORIES

- A. Toilet accessories in quantities noted for each accessory are to be provided in the following rooms:
  - 1. 100N Janitors
  - 2. 100X Janitors
  - 3. 200F Janitors
- B. Source Limitations: Obtain custodial accessories from single source from single manufacturer.
- C. Custodial Mop and Broom Holder:
  - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following or equal:

- a. <u>ASI-American Specialties, Inc</u>.
- b. <u>Bobrick Washroom Equipment, Inc</u>.
- c. <u>Bradley Corporation</u>.
- 2. Description: Unit with shelf, hooks, holders, and rod suspended beneath shelf <Insert
- 3. Length: 36 inches (914 mm).
- 4. Hooks: Two
- 5. Mop/Broom Holders: Three spring-loaded, rubber hat, cam type.
- 6. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
  - a. Shelf: Not less than nominal 0.05-inch- (1.3-mm-) thick stainless steel.
  - b. Rod: Approximately 1/4-inch- (6-mm-) diameter stainless steel.

#### 2.5 MATERIALS

- A. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, 0.031-inch- (0.8-mm-) minimum nominal thickness unless otherwise indicated.
- B. Steel Sheet: ASTM A1008/A1008M, Designation CS (cold rolled, commercial steel), 0.036inch- (0.9-mm-) minimum nominal thickness.
- C. Galvanized-Steel Sheet: ASTM A653/A653M, with G60 (Z180) hot-dip zinc coating.
- D. Galvanized-Steel Mounting Devices: ASTM A153/A153M, hot-dip galvanized after fabrication.
- E. Fasteners: Screws, bolts, and other devices of same material as accessory unit, unless otherwise recommended by manufacturer or specified in this Section, and tamper and theft resistant where exposed, and of stainless or galvanized steel where concealed.

#### 2.6 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Install accessories in accordance with manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
  - 1. Remove temporary labels and protective coatings.
- B. Grab Bars: Install to comply with specified structural-performance requirements.

#### 3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Clean and polish exposed surfaces in accordance with manufacturer's written instructions.

#### END OF SECTION 102800

#### SECTION 323113 - CHAIN LINK FENCES AND GATES

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Chain-Link Fences: Industrial.
  - 2. Gates: Motor operated, horizontal slide & swing.
- B. Related Sections include the following:
  - 1. Division 03 Section "Concrete Paving" for concrete equipment bases/pads for gate operators, drives, and controls.
  - 2. Division 26 Sections for electrical service and connections for motor operators, controls, limit and disconnect switches, and safety features and for system disconnect switches.
  - 3. Division 31 Section "Earth Moving" for site excavation, fill, and backfill where chainlink fences and gates are located.

#### 1.3 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide chain-link fences and gates capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
  - 1. Minimum Post Size and Maximum Spacing for Wind Velocity Pressure: Determine based on mesh size and pattern specified, and on the following minimum design wind pressures and according to CLFMI WLG 2445:
    - a. Wind Speed: 80 mph.
    - b. Fence Height: Match existing height of existing fence to remain on site
    - c. Line Post Group: IA, ASTM F 1043, Schedule 40 steel pipe.
    - d. Wind Exposure Category: B.
  - 2. Determine minimum post size, group, and section according to ASTM F 1043 for framework up to 12 feet (3.66 m) high, and post spacing not to exceed 10 feet (3 m).
- B. Lightning Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.

#### 1.4 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates.
  - 1. Fence and gate posts, rails, and fittings.
  - 2. Chain-link fabric, reinforcements, and attachments.
  - 3. Gates and hardware. Including panic hardware where noted.
  - 4. Gate operators, including operating instructions.
  - 5. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.
- B. Shop Drawings: Show locations of fences, gates, posts, rails, tension wires, details of extended posts, extension arms, gate swing, or other operation, hardware, and accessories. Indicate materials, dimensions, sizes, weights, and finishes of components. Include plans, gate elevations, sections, details of post anchorage, attachment, bracing, and other required installation and operational clearances.
  - 1. Gate Operator: Show locations and details for installing operator components, switches, and controls. Indicate motor size, electrical characteristics, drive arrangement, mounting, and grounding provisions.
  - 2. Wiring Diagrams: Power and control wiring and communication and access-control features.
  - 3. For installed products indicated to comply with design loads, include structural analysis data.
- C. Product Certificates: For each type of chain-link fence, operator, and gate, signed by product manufacturer.
  - 1. Strength test results for framing according to ASTM F 1043.
- D. Qualification Data: For Installer.
- E. Field quality-control test reports.
- F. Maintenance Data: For the following to include in maintenance manuals:
  - 1. Polymer finishes.
  - 2. Gate operator.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed chain-link fences and gates similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
  - 1. Engineering Responsibility: Preparation of data for chain-link fences and gates, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
- B. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a member company of the International Electrical Testing

Association or is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7, and that is acceptable to authorities having jurisdiction.

- 1. Testing Agency's Field Supervisor: Person currently certified according to NETA ETT, or the National Institute for Certification in Engineering Technologies, to supervise onsite testing specified in Part 3.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. UL Standard: Provide gate operators that comply with UL 325.
- E. Emergency Access Requirements: Comply with requirements of authorities having jurisdiction for automatic gate operators serving as a required means of access.
- F. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

#### 1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.
- B. Interruption of Existing Utility Service: Do not interrupt utility services to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
  - 1. Notify Architect no fewer than two days in advance of proposed interruption of utility services.
  - 2. Do not proceed with interruption of utility services without Architect's written permission.

#### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Chain-Link Fences and Gates:
    - a. Master Halco www.masterhalco.com
    - b. Allied Tube and Conduit www.atcfence.com
    - c. Richards Fence www.richardsfence.com

- 2. Gate Operator:
  - a. Viking Access Systems https://www.vikingaccess.com/
  - b. Liftmaster https://www.liftmaster.com/for-businesses/gate-operators
  - c. U.S. Automatic https://www.usautomatic.com/

#### 2.2 CHAIN-LINK FENCE FABRIC

A. General: Height to match existing fence to remain onsite, limited to 12 feet. Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage.

#### 2.3 INDUSTRIAL FENCE FRAMING

- A. Posts and Rails: Comply with ASTM F 1043 for framing, ASTM F 1083 for Group IC round pipe, and the following:
  - 1. Group: IA, round steel pipe, Schedule 40.
  - 2. Fence Height: Match existing fence to remain.
  - 3. Strength Requirement: Heavy industrial according to ASTM F 1043.
  - 4. Post Diameter and Thickness: According to ASTM F 1043
  - 5. Post Size and Thickness: According to ASTM F 1043.
    - a. Top Rail: 1.66 inches.
    - b. Line Post: 2.375 inches.
    - c. End, Corner and Pull Post: 2.875 inches.
    - d. Swing Gate Post: 2.375-inch diameter, 3.11-lb/ft. weight.
    - e. Horizontal-Slide Gate Post: [According to ASTM F 1184.]
      - 1) Openings up to 12 Feet (3.7 m): Steel post, 2.875-inch (73-mm) diameter, and 4.64-lb/ft. (6.91-kg/m) weight.
      - 2) Openings wider than 12 Feet (3.7 m): Steel post, 4-inch (102-mm) diameter, and 8.65-lb/ft. (12.88-kg/m) weight.
      - 3) Guide posts for Class 1 horizontal-slide gates equal the gate post height, 1 size smaller, but weight is not less than 3.11 lb/ft. (4.63 kg/m); installed adjacent to gate post to permit gate to slide in space between.
  - 6. Coating for Steel Framing:
    - a. Metallic Coating:
      - 1) Type A, consisting of not less than minimum 2.0-oz./sq. ft. (0.61-kg/sq. m) average zinc coating per ASTM A 123/A 123M or 4.0-oz./sq. ft. (1.22-kg/sq. m) zinc coating per ASTM A 653/A 653M.

## 2.4 TENSION WIRE

- A. General: Provide horizontal tension wire at the following locations:
  - 1. Location: Extended along top and bottom of fence fabric.

#### CHAIN LINK FENCES AND GATES

- B. Metallic-Coated Steel Wire: 0.177-inch- diameter, marcelled tension wire complying with ASTM A 817, ASTM A 824, and the following:
  - 1. Metallic Coating: Type II, zinc coated (galvanized) by hot-dip process, with the following minimum coating weight:
    - a. Class 2: Not less than 1.2 oz./sq. ft. (366 g/sq. m) of uncoated wire surface.
- C. Aluminum Wire: 0.192-inch- (4.88-mm-) diameter tension wire, mill finished, complying with ASTM B 211, Alloy 6061-T94 with 50,000-psi (344-MPa) minimum tensile strength.

## 2.5 INDUSTRIAL SWING GATES

- A. General: Comply with ASTM F 900 for single & double swing gate types.
  - 1. Metal Pipe and Tubing: Galvanized steel. Comply with ASTM F 1043 and ASTM F 1083 for materials and protective coatings.
- B. Frames and Bracing: Fabricate members from round, galvanized steel tubing with outside dimension and weight according to ASTM F 900 and the following:
  - 1. Gate Fabric Height: 2 inches less than adjacent fence height.
  - 2. Leaf Width: 36 inches.
  - 3. Frame Members:
    - a. Tubular Steel: 1.90 inches round.
- C. Frame Corner Construction:
  - 1. Welded and 5/16-inch- diameter, adjustable truss rods for panels 5 feet wide or wider.

Hardware: Latches permitting operation from both sides of gate, hinges, and keepers for each gate leaf more than 5 feet wide. Provide panic hardware on interior side of fence gates that provide exit from interior courtyards and enclosed areas.

#### 2.6 INDUSTRIAL HORIZONTAL-SLIDE GATES

- A. General: Comply with ASTM F 1184 for single slide gate types.
  - 1. Classification: Type II Cantilever Slide, Class 1 with external roller assemblies.
  - 2. Metal Pipe and Tubing: Galvanized steel. Comply with ASTM F 1184 for materials and protective coatings.
- B. Frames and Bracing: Fabricate members from round, galvanized steel tubing with outside dimension and weight according to ASTM F 1184 and the following:
  - 1. Gate Fabric Height: 6 feet.
  - 2. Gate Opening Width: As indicated.
  - 3. Frame Members:

- a. Tubular Steel 1.90 inches round.
- 4. Bracing Members:
  - a. Tubular 1.9 inches Steel round.
- C. Frame Corner Construction:
  - 1. Welded frame with panels assembled with bolted or riveted corner fittings and 5/16-inchdiameter, adjustable truss rods for panels 5 feet wide or wider.
- D. Overhead Track Assembly: Manufacturer's standard track, with overhead framing supports, bracing, and accessories, engineered to support size, weight, width, operation, and design of gate and roller assemblies.
- E. Roller Guards: As required per ASTM F 1184 for Type II, Class 1 gates.
- F. Hardware: Latches permitting operation from both sides of gate, locking devices, hangers, roller assemblies, and stops fabricated from galvanized steel. Fabricate latches with integral eye openings for padlocking; padlock accessible from both sides of gate.]

#### 2.7 FITTINGS

- A. General: Comply with ASTM F 626.
- B. Post and Line Caps: Provide for each post.
  - 1. Line post caps with loop to receive tension wire or top rail.
- C. Rail and Brace Ends: Attach rails securely to each gate, corner, pull, and end post.
- D. Rail Fittings: Provide the following:
  - 1. Top Rail Sleeves: R ound-steel tubing not less than 6 inches long.
  - 2. Rail Clamps: Line and corner boulevard clamps for connecting intermediate and bottom rails in the fence line-to-line posts.
- E. Tension and Brace Bands: Pressed steel.
- F. Tension Bars: Steel, length not less than 2 inches shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.
- G. Truss Rod Assemblies: Steel, hot-dip galvanized after threading rod and turnbuckle or other means of adjustment.
- H. Tie Wires, Clips, and Fasteners: According to ASTM F 626.
  - 1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, complying with the following:
    - a. Hot-Dip Galvanized Steel: 0.148-inch- diameter wire; galvanized coating thickness matching coating thickness of chain-link fence fabric.

#### 2.8 GATE OPERATORS

- A. General: Provide factory-assembled automatic operating system designed for gate size, type, weight, and operation frequency. Provide operation control system with characteristics suitable for Project conditions, with remote-control stations, safety devices, and weatherproof enclosures; coordinate electrical requirements with building electrical system.
  - 1. Provide operator designed so motor may be removed without disturbing limit-switch adjustment and without affecting auxiliary emergency operator.
  - 2. Provide operator with UL approved components.
  - 3. Provide electronic components with built-in troubleshooting diagnostic feature.
  - 4. Provide unit designed and wired for both right-hand/left-hand opening, permitting universal installation.
- B. Comply with NFPA 70.
- C. Motor Characteristics: Sufficient to start, accelerate, and operate connected loads at designated speeds, within installed environment, with indicated operating sequence, and without exceeding nameplate rating or considering service factor. Comply with NEMA MG-1 and the following:
  - 1. Voltage: NEMA standard voltage selected to operate on nominal circuit voltage to which motor is connected.
  - 2. Horsepower:  $\frac{1}{2}$  1 depending on manufacturer's standard.
  - 3. Enclosure: Manufacturer's standard.
  - 4. Duty: Continuous duty at ambient temperature of 105 deg F (40 deg C) and at altitude of 3300 feet (1005 m) above sea level.
  - 5. Service Factor: 1.15 for open dripproof motors; 1.0 for totally enclosed motors.
  - 6. Phase: One.
- D. Gate Operators: Concrete base/pad mounted and as follows:
  - 1. Mechanical Slide Gate Operators:
    - a. Duty: Medium duty, commercial/industrial].
    - b. Gate Speed: Minimum 45 feet per minute.
    - c. Maximum Gate Weight: 600 lb.
    - d. Frequency of Use: Continuous duty.
    - e. Operating Type: Wheel and rail drive, with manual release.
    - f. Drive Type: Enclosed worm gear and chain-and-sprocket reducers, rollerchain drive.
- E. Remote Controls: Electric controls separated from gate and motor and drive mechanism, per manufacturer's standards based on selected unit.
  - 1. Control Station: Momentary-contact, single three-button-operated; located remotely from gate. Key switch to lock out open and close buttons.
    - a. Function: Open and close.
  - 2. Card Reader: Functions only when authorized card is presented. Programmable, magnetic multiple-code system, permitting four different access time periods; face-lighted unit fully visible at night.

- a. Reader Type: Touch plate or Proximity.
- b. Features: Timed anti-passback, Limited-time usage, and capable of monitoring and auditing gate activity.
- 3. Telephone Entry System: Hands-free voice-communication system for connection to building telephone system with digital-entry code activation of gate operator and auxiliary keypad entry.
  - a. Multiunit System: Designed to be wired to a dedicated telephone line, with capacity to access [20] [100] <Insert number> telephones[, and with electronic directory].
- 4. Vehicle Loop Detector: System including automatic closing timer with adjustable time delay before closing, timer cut-off switch, and loop detector designed to hold gate open until traffic clears. Provide electronic detector with adjustable detection patterns, adjustable sensitivity and frequency settings, and panel indicator light designed to detect presence or transit of a vehicle over an embedded loop of wire and to emit a signal activating the gate operator. Provide number of loops consisting of multiple strands of wire, number of turns, loop size, and method of placement at location shown on Drawings, as recommended in writing by detection system manufacturer for function indicated.
  - a. Loop: Wire, in size indicated for field assembly, for pave-over installation.
- F. Obstruction Detection Devices: Provide each motorized gate with automatic safety sensor(s). Activation of sensor(s) causes operator to immediately function as follows:
  - 1. Action: Reverse gate in both opening and closing cycles and hold until clear of obstruction.
- G. Limit Switches: Adjustable switches, interlocked with motor controls and set to automatically stop gate at fully retracted and fully extended positions.
- H. Emergency Release Mechanism: Quick-disconnect release of operator drive system of the following type of mechanism, permitting manual operation if operator fails. Design system so control circuit power is disconnected during manual operation.
  - 1. Type: Integral fail-safe release, allowing gate to be pushed open without mechanical devices, keys, cranks, or special knowledge.
  - 2. Type: Mechanical device, key, or crank-activated release.
- I. Operating Features:
  - 1. Digital Microprocessor Control: Electronic programmable means for setting, changing, and adjusting control features[ with capability for monitoring and auditing gate activity. Provide unit that is isolated from voltage spikes and surges.
  - 2. System Integration: With controlling circuit board capable of accepting any type of input from external devices.
  - 3. Master/Slave Capability: Control stations designed and wired for gate pair operation.
  - 4. Automatic Closing Timer: With adjustable time delay before closing.
  - 5. Open Override Circuit: Designed to override closing commands.
  - 6. Reversal Time Delay: Designed to protect gate system from shock load on reversal in

both directions.

- 7. Maximum Run Timer: Designed to prevent damage to gate system by shutting down system if normal time to open gate is exceeded.
- 8. Clock Timer: 24-hour, Seven-day programmable for regular events.
- J. Accessories:
  - 1. Warning Module: Audio, ADA-compliant, strobe-light alarm sounding three to five seconds in advance of gate operation and continuing until gate stops moving.
  - 2. Battery Backup System: Battery-powered drive and access control system, independent of primary drive system:
    - a. Fail Safe: Gate opens and remains open until power is restored.
    - b. Fail Secure: Gate cycles on battery power, then fail safe when battery is discharged.
  - 3. External electric-powered solenoid lock with delay timer allowing time for lock to release before gate operates.
  - 4. Fire box.
  - 5. Fire strobe alarm.
  - 6. Intercom System: per system manufacturer's standards.
  - 7. Instructional, Safety, and Warning Labels and Signs: According to Manufacturer's standard for components and features specified.

#### 2.9 CAST-IN-PLACE CONCRETE

- A. Materials: Portland cement complying with ASTM C 150, Type I aggregates complying with ASTM C 33, and potable water. Measure, batch, and mix Project-site-mixed concrete according to ASTM C 94/C 94M.
  - 1. Concrete Mixes: Normal-weight concrete[ air entrained] with not less than 3000-psi (20.7- MPa) compressive strength (28 days), 3-inch (75-mm) slump, and 1-inch (25-mm) maximum size aggregate.
- B. Materials: Dry-packaged concrete mix complying with ASTM C 387 for normal-weight concrete mixed with potable water according to manufacturer's written instructions.

#### 2.10 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydrauliccontrolled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer, for exterior applications.

#### 2.11 FENCE GROUNDING

#### CHAIN LINK FENCES AND GATES

- A. Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
  - 1. Material above Finished Grade: [Copper] [Aluminum].
  - 2. Material on or below Finished Grade: Copper.
  - 3. Bonding Jumpers: Braided copper tape, 1 inch (25 mm) wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.
- B. Connectors and Grounding Rods: Comply with UL 467.
  - 1. Connectors for Below-Grade Use: Exothermic welded type.
  - 2. Grounding Rods: Copper-clad steel.
    - a. Size: 5/8 by 96 inches (16 by 2440 mm).

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, and other conditions affecting performance.
  - 1. Do not begin installation before final grading is completed, unless otherwise permitted by Architect.
  - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet (152.5 m) or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

#### 3.3 INSTALLATION, GENERAL

- A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements specified.
  - 1. Install fencing on established boundary lines inside property line.

#### 3.4 CHAIN-LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
  - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.

- 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
  - a. Exposed Concrete: Extend 2 inches (50 mm) above grade; shape and smooth to shed water.
- C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment 30 degrees or more.
- D. Line Posts: Space line posts uniformly at 8 feet o.c.
- E. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Install braces at end and gate posts and at both sides of corner and pull posts.
  - 1. Locate horizontal braces at midheight of fabric 6 feet (1.83 m) or higher, on fences with top rail and at 2/3 fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- F. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch- (3.05-mm-) diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches (610 mm) o.c. Install tension wire in locations indicated before stretching fabric.
  - 1. Top Tension Wire: Install tension wire through post cap loops.
  - 2. Bottom Tension Wire: Install tension wire within 6 inches (150 mm) of bottom of fabric and tie to each post with not less than same diameter and type of wire.
- G. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
- H. Bottom Rails: Install, spanning between posts.
- I. Chain-Link Fabric: Apply fabric to [outside] [inside] of enclosing framework. Leave 1 inch between finish grade or surface and bottom selvage, unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.
- J. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches o.c.
- K. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at 1 end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
  - 1. Maximum Spacing: Tie fabric to line posts at 12 inches o.c. and to braces at 24 inches o.c.
- L. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side

#### 3.5 GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

#### 3.6 GATE OPERATOR INSTALLATION

- A. General: Install gate operators according to manufacturer's written instructions, aligned and true to fence line and grade.
- B. Excavation for Concrete Bases/Pads: Hand-excavate holes for bases/pads, in firm, undisturbed soil to dimensions and depths and at locations as required by gate-operator component manufacturer's written instructions and as indicated.
- C. Concrete Bases/Pads: Cast-in-place or precast concrete, depth not less than 6 to 12 inches below frost line, dimensioned and reinforced according to gate-operator component manufacturer's written instructions and as indicated on Drawings.
- D. Vehicle Loop Detector System: B ury and seal wire loop according to manufacturer's written instructions. Connect to equipment operated by detector.
- E. Comply with NFPA 70 and manufacturer's written instructions for grounding of electricpowered motors, controls, and other devices.

#### 3.7 GROUNDING AND BONDING

- A. Fence Grounding: Install at maximum intervals of 1500 feet except as follows:
  - 1. Fences within 100 Feet of Buildings, Structures, Walkways, and Roadways: Ground at maximum intervals of 750 feet .
    - a. Gates and Other Fence Openings: Ground fence on each side of opening.
      - 1) Bond metal gates to gate posts.
      - 2) Bond across openings, with and without gates, except openings indicated as intentional fence discontinuities. Use No. 2 AWG wire and bury it at least 18 inches below finished grade.
- B. Protection at Crossings of Overhead Electrical Power Lines: Ground fence at location of crossing and at a maximum distance of 150 feet on each side of crossing.
- C. Fences Enclosing Electrical Power Distribution Equipment: Ground as required by IEEE C2, unless otherwise indicated.
- D. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at the grounding location, including the following:

1.Each Barbed Wire Strand. Make grounding connections to barbed wire with wire-to-wireCHAIN LINK FENCES AND GATES323113 - 12

connectors designed for this purpose.

- 2. Each Barbed Tape Coil: Make grounding connections to barbed tape with connectors designed for this purpose.
- E. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
- F. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
  - 1. Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
  - 2. Make connections with clean, bare metal at points of contact.
  - 3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
  - 4. Make aluminum-to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.
  - 5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.
- G. Bonding to Lightning Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning protection down conductor or lightning protection grounding conductor complying with NFPA 780.

## 3.8 FIELD QUALITY CONTROL

- A. Grounding-Resistance Testing: Engage a qualified independent testing and inspecting agency to perform field quality-control testing.
  - 1. Grounding-Resistance Tests: Subject completed grounding system to a megger test at each grounding location. Measure grounding resistance not less than two full days after last trace of precipitation, without soil having been moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural grounding resistance. Perform tests by two-point method according to IEEE 81.
  - 2. Excessive Grounding Resistance: If resistance to grounding exceeds specified value, notify Architect promptly. Include recommendations for reducing grounding resistance and a proposal to accomplish recommended work.
  - 3. Report: Prepare test reports certified by a testing agency of grounding resistance at each test location. Include observations of weather and other phenomena that may affect test results.

#### 3.9 ADJUSTING

- A. Gate: Adjust gate to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Automatic Gate Operator: Energize circuits to electrical equipment and devices. Adjust

operators, controls, safety devices, alarms, and limit switches.

- 1. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
- 2. Test and adjust control, alarms, and safeties. Replace damaged and malfunctioning controls and equipment.
- C. Lubricate hardware, gate operator, and other moving parts.
- 3.10 DEMONSTRATION
  - A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain gates. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION 323113

#### SECTION 323223 - SEGMENTAL RETAINING WALLS (SRW)

#### PART 1 - GENERAL

#### 1.1 SECTION REQUIREMENTS

- A. Submittals:
  - 1. Product Data

#### PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: If SRW is over allowable height for standard gravity wall, a comprehensive engineering analysis by a qualified professional engineer will be required.
- B. Structural Performance: Engineering design shall be based on NCMA's "Design Manual for Segmental Retaining Walls."
- C. Seismic Performance: Engineering design shall be based on NCMA's "Segmental Retaining Walls Seismic Design Manual."

#### 2.2 RETAINING WALL MATERIALS

- A. Concrete Units: ASTM C 1372, Normal Weight, complying with requirements for freeze-thaw durability.
  - 1. Manufacturers:
  - 2. <u>Basis-of-Design Product</u>: Product indicated on Drawings by Redi-Rock (Gravity Wall) or a comparable product of one of the following:
    - a. <u>Allan Block Corporation.</u>
    - b. <u>Anchor Wall Systems, Inc.</u>
    - c. <u>Rockwood Retaining Walls, Inc.</u>
    - d. <u>Versa-Lok Retaining Wall Systems; a division of Kiltie Corporation.</u>
  - 3. Provide units that interlock with courses above and below by means of integral shear knobs or pins.
  - 4. Exposed Faces: Machine-split textured.
  - 5. Shape and Dimensions: Shape and dimensions that will produce segmental retaining walls of heights indicated.
  - 6. Cap units and other special shapes to provide textures on exposed surfaces matching faces.

- B. Leveling Base: Base material per Section 312000 "Earth Moving."
- C. Drainage Fill: Drainage course per Section 312000 "Earth Moving."
- D. Soil Fill: Satisfactory soils per Section 312000 "Earth Moving."
- E. Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters.
- F. Soil Reinforcement: NOT ANTICIPATED FOR THIS SITE GRAVITY WALL STANDARD DETAIL.

#### PART 3 - EXECUTION

#### 3.1 RETAINING WALL INSTALLATION

- A. Place and compact base material to not less than 95 percent maximum dry unit weight according to ASTM D 698.
- B. Place retaining wall units according to NCMA's "Segmental Retaining Wall Installation Guide."
  - 1. Place fills on both sides of wall at same time, where both sides are indicated to be filled.
  - 2. Fill voids with drainage fill.
- C. Cap Units: Place cap units and secure with cap adhesive.

#### 3.2 FILL PLACEMENT

- A. Place, spread, and compact fill in uniform lifts for full width and length of embankment as wall is laid. Begin at back of wall and place and spread fill toward embankment.
  - 1. Compact drainage fill and reinforced soil fill to 95 percent maximum dry unit weight according to ASTM D 698, except within 48 inches (1200 mm) of wall.
  - 2. Use only hand-operated compaction equipment within 48 inches (1200 mm) of wall and compact to not less than 90 percent maximum dry unit weight according to ASTM D 698.
  - 3. Compact nonreinforced soil fill per Section 312000 "Earth Moving."
- B. Field Quality Control: Comply with requirements in Section 312000 "Earth Moving."
  - 1. In each compacted backfill layer, perform at least one field in-place compaction test for each 150 feet (50 m) or less of segmental retaining wall length.

## END OF SECTION 323223

#### SECTION 329200 - TURF AND GRASSES

#### PART 1 - GENERAL

#### 1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.
- B. Sod: Harvest, deliver, store, and handle sod according to requirements in "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" in TPI's "Guideline Specifications to Turfgrass Sodding."
- C. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with maintenance periods to provide required maintenance from the date of substantial competition.
  - 1. Spring planting: March 15-June15.
  - 2. Summer planting: June 16-August 31
  - 3. Fall: September 1- November 15
- D. Spring or Fall plantings are the preferred, if Summer plantings are used then additional watering shall be used to guarantee the survival of the plantings.

#### 1.2 PRODUCTS

#### GRASSES

- A. Seed Species: State-certified seed of grass species, as follows:
- B. Seed Species: Seed of grass species as follows, with not less than 95 percent germination, not less than 85 percent pure seed, and not more than 0.5 percent weed seed:
  - 1. Seed Mixture: Sothern Lawn Extreme
- C. Grass Seed Mix: Proprietary seed mix as follows:
  - 1. Products:
    - a. Southern Lawn <u>Extreme</u> Landscape Supply Company

#### 1.3 SOILS AND AMENDMENTS

- A. Topsoil: ASTM D 5268, with pH range of 5.5 to 7, free of stones 1 inch (25 mm) or larger and other extraneous materials harmful to plant growth.
- B. Lime: ASTM C 602, Class T, agricultural limestone.
- C. Compost: Well-composted, stable, and weed-free organic matter; pH range of 5.5 to 8.
- D. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
- E. Commercial Fertilizer: Commercial-grade complete fertilizer, consisting of 1 lb/1000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
- F. Slow-Release Fertilizer: Granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium; 20 percent nitrogen; 10 percent phosphorous; and 10 percent potassium; by weight.
- G. Straw Mulch: Clean, mildew- and seed-free salt hay or threshed straw of wheat, rye, oats, or barley.
- H. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.

#### PART 2 - EXECUTION

#### 2.1 PREPARATION

- A. Loosen subgrade to a minimum depth of 4 inches; remove stones, sticks, existing grass, vegetation, and other extraneous materials.
- B. Grade lawn areas to a smooth, even surface with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades. Moisten before planting.

#### 2.2 PLANTING

- A. Seeding: Evenly distribute seed by sowing with a spreader or a seeding machine. Rake seed lightly into top 1/8 inch (3 mm) of topsoil, roll lightly, and water with fine spray. Protect seeded areas by spreading straw mulch 1-1/2 inches (38 mm) in loose depth.
  - 1. Seeding Rate: 5 to 8 lb/1000 sq. ft.
- B. Hydroseeding: Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Uniformly blended into a homogeneous slurry.

#### Repurposing of Ruffner Operations Center Into Ruffner Career and Technical Education Center Roanoke City Public Schools

- 1. Apply slurry uniformly at a rate so that mulch component is deposited at no less than 1500-lb/acre dry weight, and seed component is deposited at no less than the specified seed-sowing rate.
- 2. Seeding Rate: 5 to 8 lb/1000 sq. ft.
- C. Sodding: Lay sod within 24 hours of harvesting. Lay sod with tightly fitted joints, offsetting joints in adjacent courses. Tamp and roll lightly. Fill minor cracks between pieces of sod with soil or sand. Anchor sod on slopes exceeding 1:6 with wood pegs or steel staples. Saturate sod with fine water spray within two hours of planting. During first week, water daily.

#### 2.3 MAINTENANCE

- A. Maintain and establish lawn by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth lawn. Provide materials and installation the same as those used in the original installation.
- B. Maintain turf until established, but for not less than 60 days.
- C. Mow lawn as soon as top growth is tall enough to cut. Remove no more than one-third of grassleaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet.

END OF SECTION 329200

## **APPENDIX B – HAZARDOUS MATERIAL REPORTS**

22 South Main Street, Suite BO1 Lexington, VA 24450



Phone: 540-463-3336 Fax: 540-463-3546

Mr. Jeff Shawver Chief of Physical Plants Roanoke City Schools 3601 Ferncliff Avenue Roanoke, VA 24017

February 9, 2022

Mr. Shawver,

This letter shall serve as the Certification of Completion for the Asbestos Bulk Sampling at William Ruffner located at 3601 Ferncliff Avenue in Roanoke, Virginia. Mr. Chance Famuliner, a Virginia-Licensed Asbestos and Lead Inspector and Asbestos Management Planner completed the inspections on January 26, 2022. Documentation attached herein is provided as supplemental to the original AHERA Management Plan.

A thorough review of the school included a site visit and visual inspection of the building, plus a review of historical documentation available including past inspections and the existing AHERA Management Plan. Documentation attached herein is provided as supplemental to the original AHERA Management Plan.

Previously identified materials tested positive for more than 1% asbestos:

- Nonfriable black mastic used to adhere non-asbestos vinyl floor tiles.
- Friable incandescent lighting heat shields in restroom 1 identified.

If these materials are to be disturbed during the upcoming renovation, they should be abated prior, along with Project Monitoring and Clearance sampling. The AHERA Management Plan should be updated per 40 CFR Part 763 to reflect any response actions prior to the location coming back online as a school building.

This testing identified ACM that was generally accessible through non-destructive methods, therefore, ACM's could remain inside walls, above hard ceilings, below floors or encased in concrete. If any additional materials not identified in this report are discovered during any renovation, they should be assumed to contain asbestos until sampling proves otherwise. Roofing and Exterior areas were not included in this evaluation.

Please refer to the Laboratory Chain of Custody for a detailed description of materials and locations. Please retain these documents for your permanent records and insert all into the Asbestos Management Plan for the school.

Thank you.

Respectfully, Kristm Faun lunch

Kristin Famuliner

Senior Biologist VA Asbestos Inspector # 3303 002602 VA Asbestos Project Designer # 3305 000989 VA Asbestos Project Monitor # 3309 001040 VA Asbestos Management Planner # 3304 001422 William Ruffner Middle School

#### Asbestos Materials Inspection

Sample Location, Description, Assessments & Results

#### Date: 6/29/2021

Client: Roanoke City Schools Location: William Ruffner Middle School INSPECTOR: Peter Palmer

SA#=:	Sample Nurr	nber \ HA# = Homogeneous Area Number			ACM = Asb	estos Containing N	laterial \ NAE	= No Asbestos Detected
SA #	HA #	LOCATION	DESCRIPTION	COLOR	AMOUNT	SSESSMEN	ACM	RESULTS
R-1	1	East covered walkway	2' x 2' CT 1 Cross fissure Ran hole	White	Throughout	good	no	NAD
R-2	12	Stage in Cafeteria	12" x 12" VFT Type 3 random speckle	Beige	300 SF	good	no	Building demolished
R-3	4	Scuttle in boys locker Rm beside Gym	TSI elbow on Fiberglass 1" line	Gray	Throughout	good	no	NAD
R-4	14	Band room West Bldg	Black Mastic NO Floor tile	Black	1200 SF	good	no	Building demolished
R-5	6	Technology Lab @ column	2' x 2' CT Type 3 Fis & Rand Hole	White	Throughout	good	no	NAD
R-6	2	East covered walkway @ diffuser	2' x 2' CT Type 2 Deep Cross Fis Ran Hole	White	Throughout	good	no	NAD
R-7	7	Technology Lab in East Bldg	Bottom Layer of Floor tile Type 1 w/ blk mast	Beige	1600 SF	good	no	NAD
R-8	15	Computer Lab West Bldg @ door	12" x 12" VFT Type 5 Border Tile	Black	250 SF	good	no	NAD
R-9	16	Computer Lab West Bldg tile	12" x 12" VFT Type 7 w/ yellow mastic	Mauve	500 SF	good	no	NAD
R-10	10	Rm 209 East Bldg in Closet	Light fixture Asbestos Heat Shield	Gray	1 SF	good	yes	65% chrys
R-11	4	Janitor Closet in Cateteria	At roof access Lader	Gray	12 LF	poor	no	NAD
R-12	5	East Bldg in hallway @ concrete inset	Rubberized caulk around Exp Aggregate	Off White	Throughout	12	no	NAD
R-13	3	Hallway @ Rm 102	Tile Grout	White	Throughout	good	no	NAD
R-14	8	Technology Lab in East Bldg	12" x 12" VFT Type 2	Red	1600 SF	good	no	NAD
R-15	4	Custodial office East Bldg	TSI Elbow on Fiberglass 3 inch line	Gray	Throughout	poor	no	NAD
R-16	11	Band room West Bldg	2' x 2' CT Type 4 Rand Pin Hole/Deep fis	White	Throughout	good	no	Building demolished
R-17	13	Stage in Cafeteria	12" x 12" VFT Type 4 speckle w/ mastic	Brown	300 SF	good	no	NAD
R-18	17	Computer Lab West Bldg tile	12" x 12" VFT Type 6 w/ yellow mastic	Beige	300 SF	good	no	NAD
R-19	4	Laundry Rm in East Bldg @ washer	TSI elbow on Fiberglass 1" line	Gray	60 LF	good	no	NAD
R-20	9	Rm 105 Back wall	Joint Compound	White	20 SF	good	no	NAD
R-21	18	Lounge in West Bldg @ Cafeteria	12" x 12" VFT Type 8 streak w/ tan mastic	Off White	200 SF	good	no	Building demolished
R-22	19	Bldg 4 above ceiling tiles	Ductwork Mastic	White	300 SF	good	no	NAD
R-23	20	Bldg 4 Rm 401 @ door way	12" x 12" VFT Type 9 smear	Lt Green	2500 SF	good	no	NAD
R-24	21	Bldg 4 Janitors Closet	TSI Elbow at Roof Ladder	Gray	12 LF	fair	no	NAD
R-25	22	Bldg 4 Janitors Closet	Lightweight concrete @ roof deck	Gray	8000 SF	good	no	NAD
R-26	23	Bldg 4 2x2 Ceiling Tiles	2' x 2' CT Type 5 wide cross fis wide hole	White	Throughout	good	no	NAD
R-27	24	Main Bldg Art room @ Doorway	12" x 12" VFT Type 10 smear	Off White	425 SF	good	yes	Building demolished
R-28	25	Nurse's Bathroom Main Office	12" x 12" VFT Type 11 w/ yellow mastic	Gold	25 SF	good	noo	NAD

chrys=chrysotile asbestos, ASSUMED=assumed to contain asbestos, VFT=Vinyl floor tile

#### Page 1 of 1





Mr. Jeff Shawver Chief of Physical Plants Roanoke City Schools 3601 Ferncliff Avenue Roanoke, VA 24017

March 18, 2022

Mr. Shawver,

This letter shall serve as the Certification of Completion for the Supplemental Sampling performed prior to the renovation at Ruffner Middle located at 3601 Ferncliff Avenue, located in Roanoke, Virginia. Mr. Chance Famuliner, a VA-licensed Asbestos Inspector completed the evaluation on March 8, 2022.

The building has largely been used to house staff but will now be converted back into a student occupied building. Sample areas are now updated using 2022 renovation nomenclature from the Architectural Design services provided.

Bulk samples were forwarded to SanAir Technologies in Powhatan, Virginia, and were further divided to meet laboratory regulatory compliance and analyzed via Polarized Light Microscopy using the EPA Interim Method for the Determination of Asbestos in Bulk Samples (EPA-600/R-93/116).

A field sketch has been included with locations of known asbestos flooring/ remaining mastics. If any additional materials not identified in this report are discovered during any renovation, they should be assumed to contain asbestos until sampling proves otherwise. Roofing was excluded as it had been completed prior. The interior portion of Building 2 (formerly the Annex) was not included as it won't be disturbed during the upcoming renovation. This testing identified ACM that was generally accessible through non-destructive methods, therefore, ACM's could remain inside walls, above hard ceilings, below floors or encased in concrete.

Please note that VA DPOR defines Asbestos-Containing Materials (ACM) as materials containing more than 1% asbestos. OSHA Regulations apply to material containing any percentage of asbestos.

## The following materials tested greater than 1% positive for asbestos:

 Gray nonfriable exterior door caulking sampled at the double doors in the Courtyard tested positive for 2% chrysotile. This material is also located at the storefront assembly and exterior doors.

- Further sampling confirmed the nonfriable black mastic used to adhere the tan 12" x 12" vinyl composition floor tile which is located below carpet at the 1st Floor Maintenance & Op Storage (Incidental use) tested positive for 3% chrysotile.
- Black/brown adhesive located below blue carpeting sampled at the 1st Floor Storage Health Services tested positive for 3% chrysotile.
- Gray, nonfriable interior door caulking sampled at the IF Stairwell door casing and at the IF Jan/Mech both tested positive for 5% chrysotile.
- Exterior, nonfriable window glazing compound (painted black) sampled Building #2 tested positive for 2% chrysotile.
- One friable incandescent lighting heat shield tested positive for 65% chrysotile asbestos during a previous inspection from 2F Office Storage.

The following materials tested positive for <1% trace amount of asbestos:

• Black Adhesive/mastic sampled below 2 layers of carpeting in 2F Conference/adjacent Office tested positive for <1% (trace) amount of chrysotile.

Assumed asbestos-containing materials:

- 9" x 9" vinyl composition floor tile and mastic was observed located below carpeting in the 2F Conference area.
- Friable roof drain insulations were observed in the Gym. Roof drains presumed throughout the building should be assumed to contain asbestos until sampling proves otherwise.

We recommend removal of these materials prior to renovation in order to prevent them from releasing asbestos fibers when disturbed. Qualified personnel should complete all removal, decontamination, and transportation of asbestos containing materials and asbestos contaminated materials. We recommend Asbestos Project Monitoring be performed during abatement.

Please retain these documents for your permanent records and insert all into the Asbestos Management Plan for the school. Please refer to the attached Laboratory Results for any additional details. Please retain these documents for your permanent records.

Thank you. Please feel free to contact our office with any questions.

# Respectfully,

Kristin Famuliner Senior Biologist VA Asbester Repetier # 3303 002602 VA Asbester Project Designer # 3303 000989 VA Asbester Project Monitor # 3309 001640 VA Asbester Messgement Planner # 3304 001422



# Analysis Report prepared for Rockbridge Environmental Consulting, Inc.

Report Date: 3/11/2022 Project Name: Ruffner, Reno Project #: RCPS SanAir ID#: 22011722



NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236 888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number 22011722 FINAL REPORT 3/11/2022 3:23:21 PM

Name: Rockbridge Environmental Consulting, Inc. Address: 22 S Main St Suite B01 Lexington, VA 24450 Phone: 540-463-3336 Project Number: RCPS P.O. Number: Project Name: Ruffner, Reno Collected Date: Not Provided on COC Received Date: 3/10/2022 12:20:00 PM

Dear Chance Famuliner,

We at SanAir would like to thank you for the work you recently submitted. The 20 sample(s) were received on Thursday, March 10, 2022 via UPS. The final report(s) is enclosed for the following sample(s): SA-1, SA-2, SA-3, SA-4, SA-5, SA-6, SA-7, SA-8, SA-9, SA-10, SA-11, SA-12, SA-13, SA-14, SA-15, SA-16, SA-17, SA-18, SA-19, SA-20.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

andra Asbring

Sandra Sobrino Asbestos & Materials Laboratory Manager SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions: - 20 samples in Good condition.



Name: Rockbridge Environmental Consulting, Inc. Address: 22 S Main St Suite B01 Lexington, VA 24450 Phone: 540-463-3336 Project Number: RCPS P.O. Number: Project Name: Ruffner, Reno Collected Date: Not Provided on COC Received Date: 3/10/2022 12:20:00 PM

Analyst: Moore, Brandi

# Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Com	Components				
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers			
SA-1 / 22011722-001 Exterior Door Caulk, Double Doors Courtyard	Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile			
SA-2 / 22011722-002 Exterior Door Caulk, Double Doors Courtyard	Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile			
SA-3 / 22011722-003 Exterior Window Glazing Compound	White Non-Fibrous Homogeneous		100% Other	None Detected			
SA-4 / 22011722-004 Exterior Window Glazing Compound	White Non-Fibrous Homogeneous		100% Other	None Detected			
SA-5 / 22011722-005 12x12 VCT, Shop Work Room, Floor Tile	Brown Non-Fibrous Homogeneous		100% Other	None Detected			
SA-5 / 22011722-005 12x12 VCT, Shop Work Room, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected			
SA-6 / 22011722-006 12x12 VCT, Shop Work Room, Floor Tile	Brown Non-Fibrous Homogeneous		100% Other	None Detected			
SA-6 / 22011722-006 12x12 VCT, Shop Work Room, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected			
5A-7 / 22011722-007 Exterior Window Caulk, Court Yard	Grey Non-Fibrous Homogeneous		100% Other	None Detected			
SA-8 / 22011722-008 nterior Window Glazing Compound, Corridor At Gym	Grey Non-Fibrous Homogeneous		100% Other	None Detected			

Analyst: Brand Moore

Approved Signatory:

Analysis Date:

3/11/2022

Date: 3/11/2022



SanAir ID Number 22011722 FINAL REPORT 3/11/2022 3:23:21 PM

Name: Rockbridge Environmental Consulting, Inc. Address: 22 S Main St Suite B01 Lexington, VA 24450 Phone: 540-463-3336 Project Number: RCPS P.O. Number: Project Name: Ruffner, Reno Collected Date: Not Provided on COC Received Date: 3/10/2022 12:20:00 PM

Analyst: Moore, Brandi

# Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Con	nponents	
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
SA-9 / 22011722-009 MJP, 3" Hot, 2F Locker Area, HVAC Closet	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
SA-10 / 22011722-010 MJP, 2" Cold, 2F Locker Area, HVAC Closet	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
SA-11 / 22011722-011 12x12 VCT, Office 2F, Former Elect Area, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
SA-11 / 22011722-011 12x12 VCT, Office 2F, Former Elect Area, Mastic/Leveler	Various Non-Fibrous Heterogeneous		100% Other	None Detected
SA-12 / 22011722-012 12x12 VCT, Mastic, Below Carpet, 1F Mainten And Operations, Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
SA-12 / 22011722-012 12x12 VCT, Mastic, Below Carpet, 1F Mainten And Operations, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
SA-13 / 22011722-013 Adhesive Below Carpet, 1F Storage, Health Services	Brown Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
SA-14 / 22011722-014 12x12 VCT, IT Tech Break Area	Brown Non-Fibrous Homogeneous		100% Other	None Detected
SA-15 / 22011722-015 nterior Door Caulk, 1F Stairwell Door Case	Grey Non-Fibrous Heterogeneous		95% Other	5% Chrysotile
5A-16 / 22011722-016 nterior Door Caulk, 1F Room 162, ilec Equip Rm	Grey Non-Fibrous Heterogeneous		95% Other	5% Chrysotile
0				

Analyst: Brand Moore

Approved Signatory:

Analysis Date: 3/

3/11/2022

Date: 3/11/2022



SanAir ID Number 22011722 FINAL REPORT 3/11/2022 3:23:21 PM

Name: Rockbridge Environmental Consulting, Inc. Address: 22 S Main St Suite B01 Lexington, VA 24450 Phone: 540-463-3336 Project Number: RCPS P.O. Number: Project Name: Ruffner, Reno Collected Date: Not Provided on COC Received Date: 3/10/2022 12:20:00 PM

Analyst: Moore, Brandi

Analysis Date:

# Asbestos Bulk PLM EPA 600/R-93/116

Stereoscopic	Com		
Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
Black Non-Fibrous Heterogeneous		100% Other	< 1% Chrysotile
Brown Non-Fibrous Homogeneous		100% Other	None Detected
White Non-Fibrous Homogeneous		100% Other	None Detected
Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile
	Appearance Black Non-Fibrous Heterogeneous Brown Non-Fibrous Homogeneous White Non-Fibrous Homogeneous Grey Non-Fibrous	Appearance% FibrousBlackNon-FibrousHeterogeneousBrownNon-FibrousHomogeneousWhiteNon-FibrousHomogeneousGreyNon-Fibrous	Appearance% Fibrous% Non-fibrousBlack100% OtherNon-Fibrous100% OtherHeterogeneous100% OtherBrown100% OtherNon-Fibrous100% OtherHomogeneous100% OtherWhite100% OtherNon-Fibrous100% OtherGrey98% OtherNon-Fibrous98% Other

Analyst: Brand Moore

3/11/2022

Approved Signatory:

5/atter-

Date: 3/11/2022

#### **Disclaimer**

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Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications NVLAP lab code 200870-0 City of Philadelphia: ALL-460 PA Department of Environmental Protection Number: 68-05397 California License Number: 2915 Colorado License Number: AL-23143 Connecticut License Number: PH-0105 Massachusetts License Number: AA000222 Maine License Number: LB-0075, LA-0084 New York ELAP lab ID: 11983 Rhode Island License Number: PCM00126, PLM00126, TEM00126 Texas Department of State Health Services License Number: 300440 Commonwealth of Virginia 3333000323 Washington State License Number: C989 West Virginia License Number: LT000616 Vermont License: AL166318 Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020

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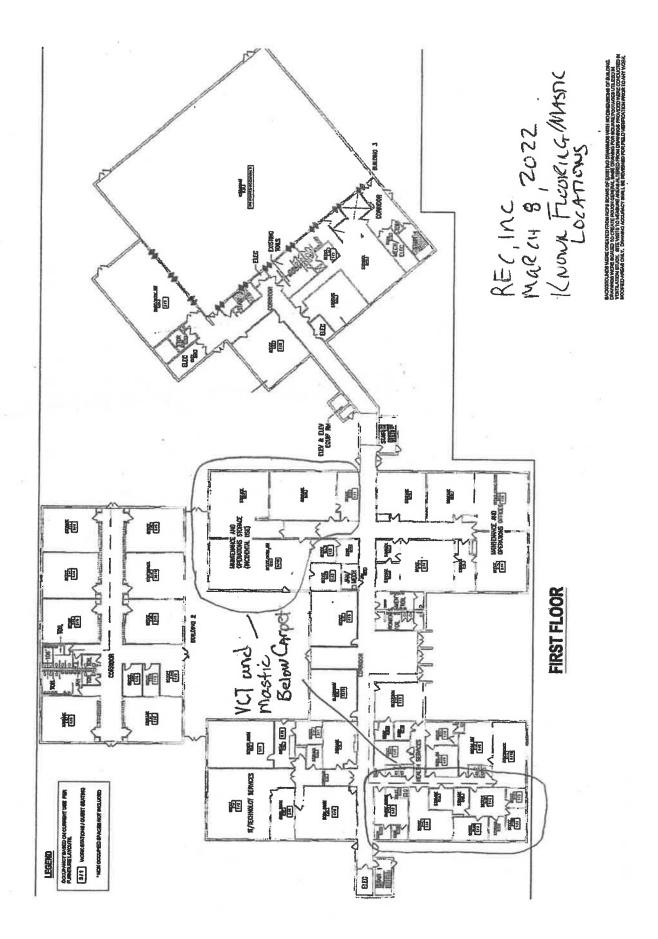
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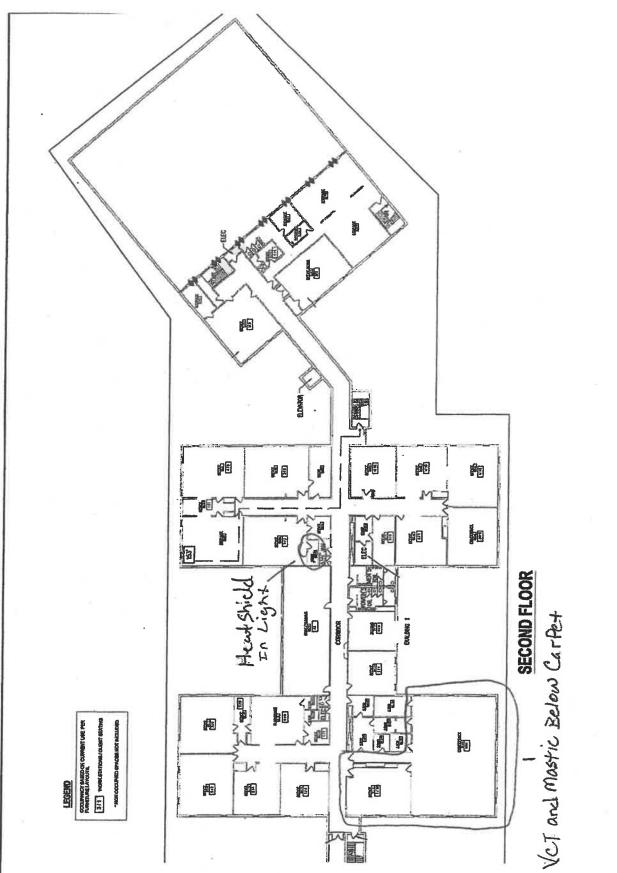
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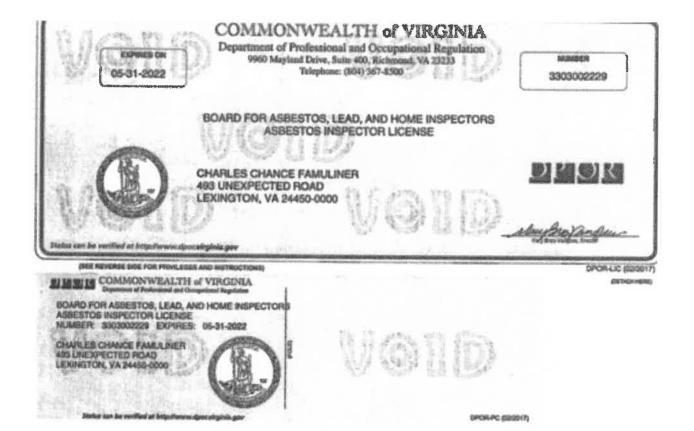
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a-18 a-19 m-20	Brown Mustic, below Carp Annex Window Caulk Annex Window glazing	ef 25 offi Compound IT Fixture ~ 25 Stok	Still AGIT, El	ectr.	CAL EPT	Sip
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a-19 n-20	Annex Window Caulk Annex Exwindow glazing	Compound IT Fixture ~ 2F Stok	Still AGIE, El	ectr.	CAL EPT	om
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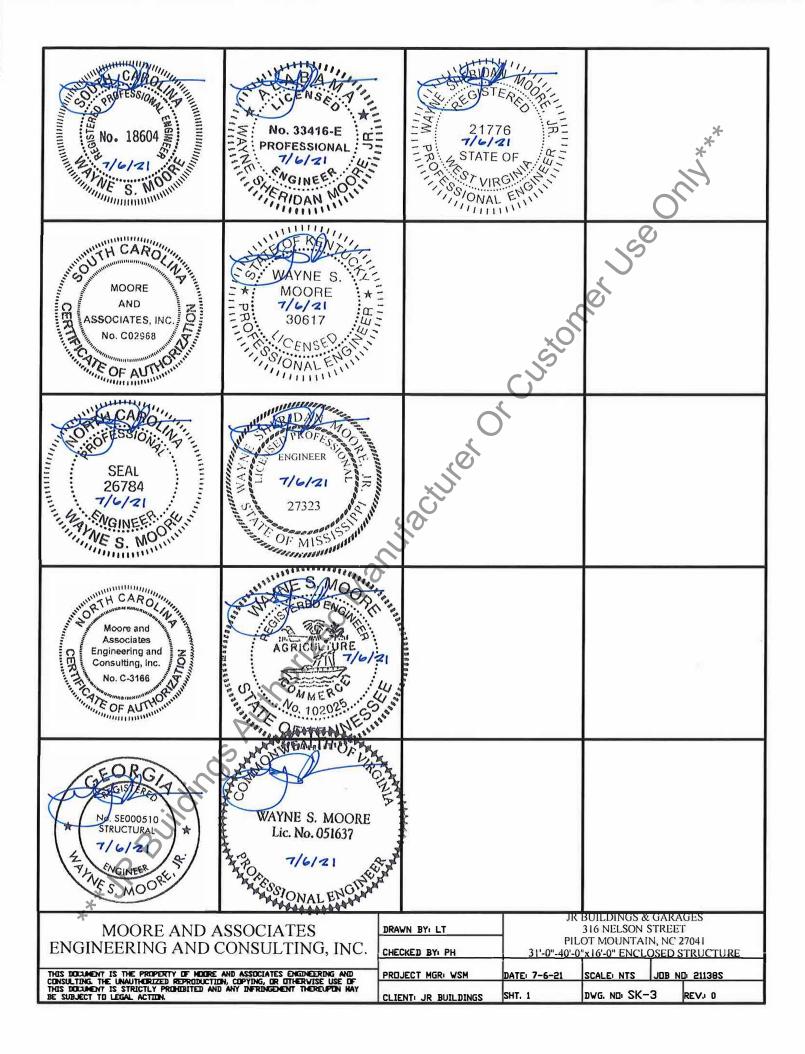
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# **APPENDIX C – SITE STORAGE BUILDING CONSTRUCTION DOCUMENTS**



MOORE AND ASSOCIATES ENGINEERING AND CONSULTING



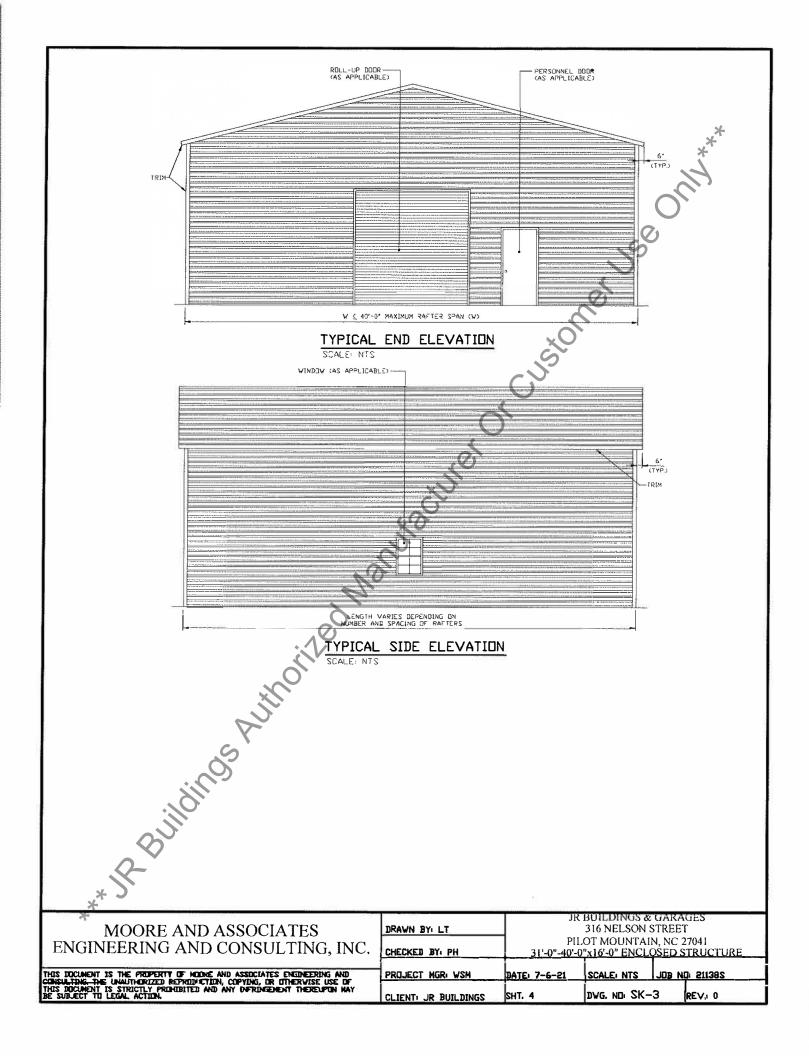
# DRAWING INDEX

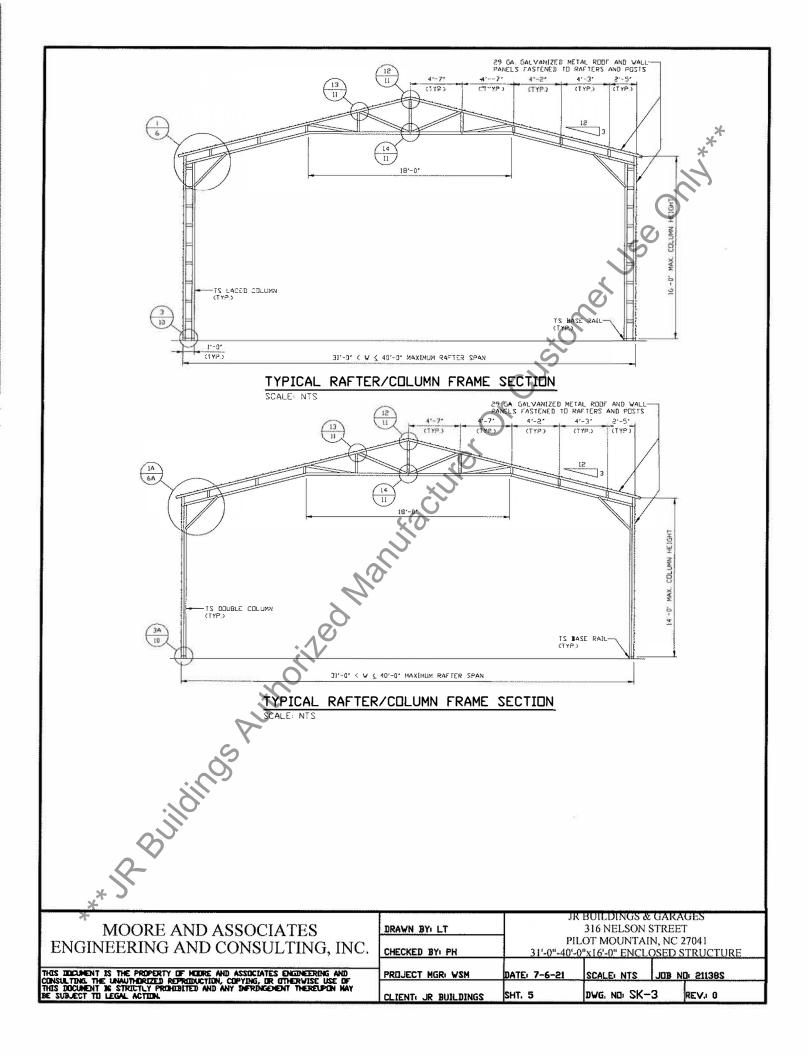
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MOORE AND ASSOCIATES DRAWN BY: LT JR BUILDINGS & GARAGES 316 NELSON STREET
ENGINEERING AND CONSULTING, INC. CHECKED BY PH PILOT MOUNTAIN, NC 27041 31'-0"-40'-0"x16'-0" ENCLOSED STRUCTURE
THIS DOCUMENT IS THE PROPERTY OF HODRE AND ASSOCIATES ENGINEERING AND PROJECT NOR VS.M DATE 7-6-21 SCALE NTS IDE NO. 20128S
CONSULTING THE UNUTHINGTED REPRODUCTION, COPYING, OR DTHERVISE USE OF THIS DOCHENT IS STRICTLY PROHIBITED AND ANY DEPENDEMENT THEREUPON HAY BE SUBJECT TO LEGAN.
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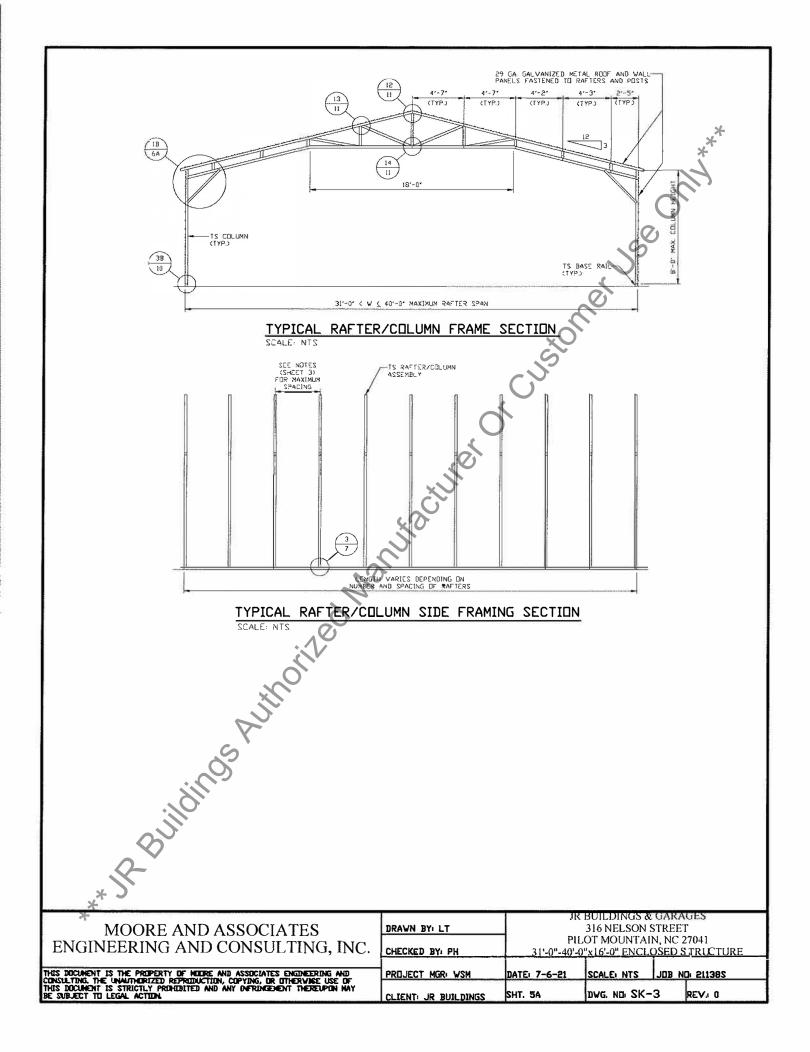
INSTALLATION NOTES AND SPECIFICATIONS 1. DESIGN IS FOR 31'-0'-40'-0' MAXIMUM WIDE × 16'-0' MAXIMUM EAVE HEIGHT ENCLOSED STRUCTURES									
2 DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUT 3 DESIGN LOADS ARE AS FOLLOWS									
A) DEAD LDAD = 11.5 PSF B) LIVE LDAD = 20 PSF				*					
C) GROUND SNOW LOAD = 35 PSF NOTE: UNBALANCED LOADING DUE TO SNOW	DRIFTING FROM AN ADJAC	ENT TALLER STR	RUCTURE HAS NOT B	EEN EVALUATED					
4. ULTIMATE 3-SECOND GUST WIND SPEED ( $V_{ULT}$ ) = $\leq$ 145 MPH (NBM									
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET (0 6. END WALL COLUMNS/POSTS AND SIDEWALL COLUMNS/POSTS AND A			NOTED OTHERWISE	10 10					
7 RISK CATEGORY I/II. 8 WIND EXPOSURE CATEGORY B/C.			S.						
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTEN FRAMING MEMBERS (UNLESS NOTED OTHERWISE), TS 2 1/4" × 2 1/				-2>					
10 PANEL FASTENER SPACING UN CENTERS = 8 INCHES (MAX.) 11 FASTENERS CONSIST OF #12-14x3/4* SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 FEET OR LESS, AND ROOF SLOPES OF 14 (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT									
12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 5' OF EVERY COLUMN. 13. STANDARD GROUND ANCHORS (SDIL NAILS) CONSIST OF #4 REBAR V/ VELDED NUT x 30' LONG AND MAY BE USED IN SUITABLE SDILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED IN UNSUITABLE SDILS. AS NOTED COORDINATE WITH LOCAL									
CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION 14. WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE: SOIL SITE CLASS = D RISK CATEGORY 1/11									
$R = 325   I_{E} = 1.0   S_{DS} = 1.522   g   V = C_{S} V   S_{DI} = 0.839   g$	Ó								
S DI = 0.839 G 15. FOR RISK CATEGORY II STRUCTURES. MAXIMUM THRESHOLD HEIGHT IS 1/2" FOR PERSONNEL DOORS UTILIZED AS MEANS OF EGRESS									
	\$.0.								
L'o									
6									
11 Martin Contraction									
e de la construcción de la const									
R Buildings Authorited									
C NI									
* >									
*			BU ILDI.NG; & GAK						
MOORE AND ASSOCIATES	DRAWN BY LT	PILO	316 NELSON STREE DT MOUNTAIN, NC	27041					
ENGINEERING AND CONSULTING, INC.	CHECKED BY PH		<u>x16'-0" ENCIOSED</u>						
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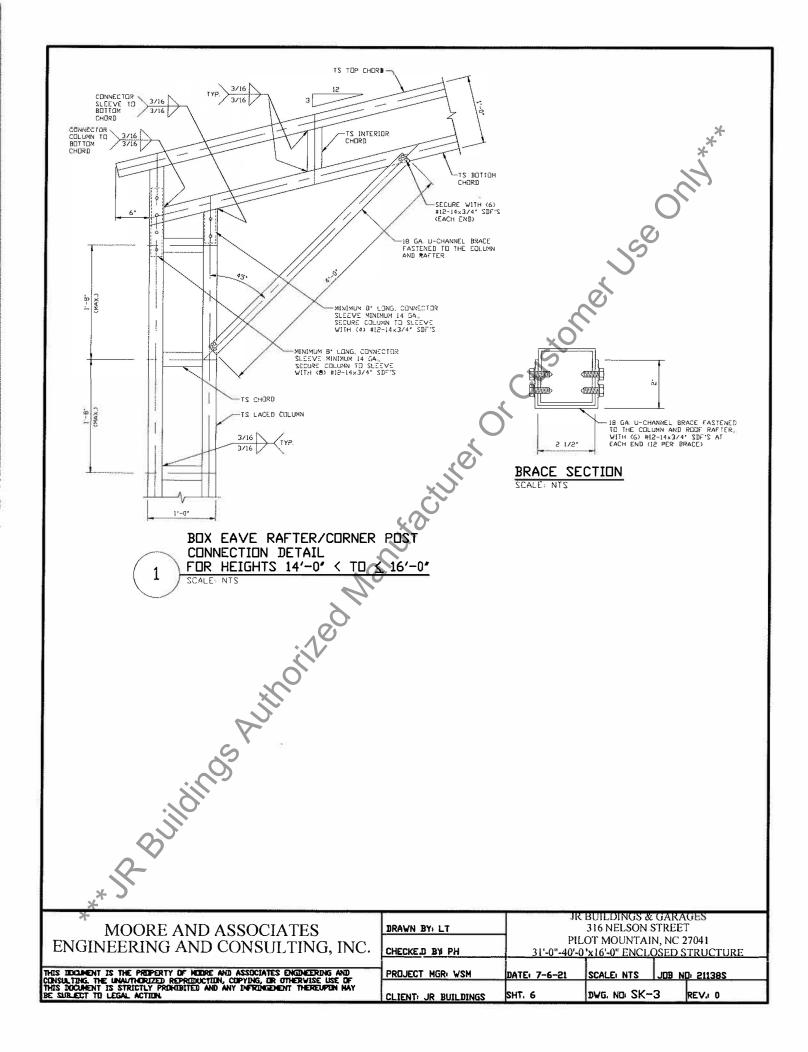
#### LIST OF APPLICABLE BUILDING CODES

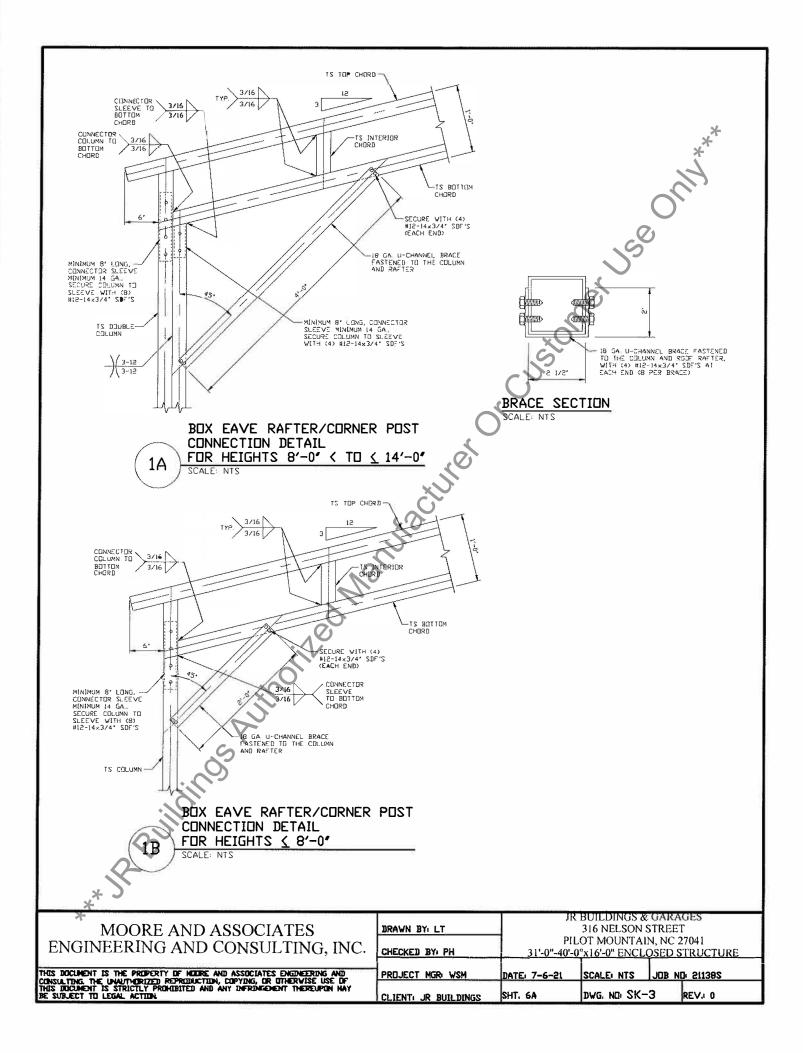
	LIST OF APPL	ICABLE BUILDING	CDDES		
	2018 INTERNATIONAL BUILDING CODE (IBC 2018)				
	2015 INTERNATIONAL BUILDING CODE (IBC 2015)				*
	2012 INTERNATIONAL BUILDING CODE (IBC 2012)				*
	BUILDING CODE 2015 OF ALABAMA (ADOPIS THE IBC 2015 WITH AMENDMENTS)				2
	GEORGIA STATE MINIMUM STANDARD BUILDING CUDE (ADOPTS THE IBC 2018 WITH AMENDMENTS)			C	)`
	2018 KENTUCKY BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)			S	
	MISSISSIPPI BUILDING CODE (IBC 2018)				
	2018 NORTH CAROLINA BUILDING CODE (ADDPIS THE I⊯C 2015 WITH AMENDMENTS)		2	Ø.	
	2018 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)		X <sup>O</sup>		
	BUILDING CODE 2012 OF TENNESSEE ADOPTS THE IBC 2012 WITH AMENDMENTS)		C		
	2015 VIRGINIA CONSTRUCTION CODE ADOPTS THE IBC 2015 WITH AMENDMENTS)	Ċ			
	BUILDING CDDE 2015 OF WEST VIRGINIA ADOPTS THE IBC 2015 VITH AMENDMENTS)		)		
	.2 Buildings Authorited	nuiacturer			
	Buildings				
****	* RBUILDING		JK B	UILDINGS & GAF	LAGES
*	* <b>S</b> MOORE AND ASSOCIATES	DRAWN BY: LT	3 PILO	16 NELSON STRE T MOUNTAIN, NO	ET C 27041
	* 2	DRAWN BY: LT CHECKED BY: PH	3 PILO <u>31'-0"-40'-0"x</u>	16 NELSON STRE T MOUNTAIN, NO 16'-0" ENCLOSEL ]	ET C 27041











#### **BASE RAIL ANCHORAGE OPTIONS**

INSTALL 1/2'0×6 3/4"

COLUMN. (ALSO APPLICABLE

\* ES

GRADE

VARIES

VAR

in in

ж C.NIMS

\*

×

EXPANSION ANCHORS

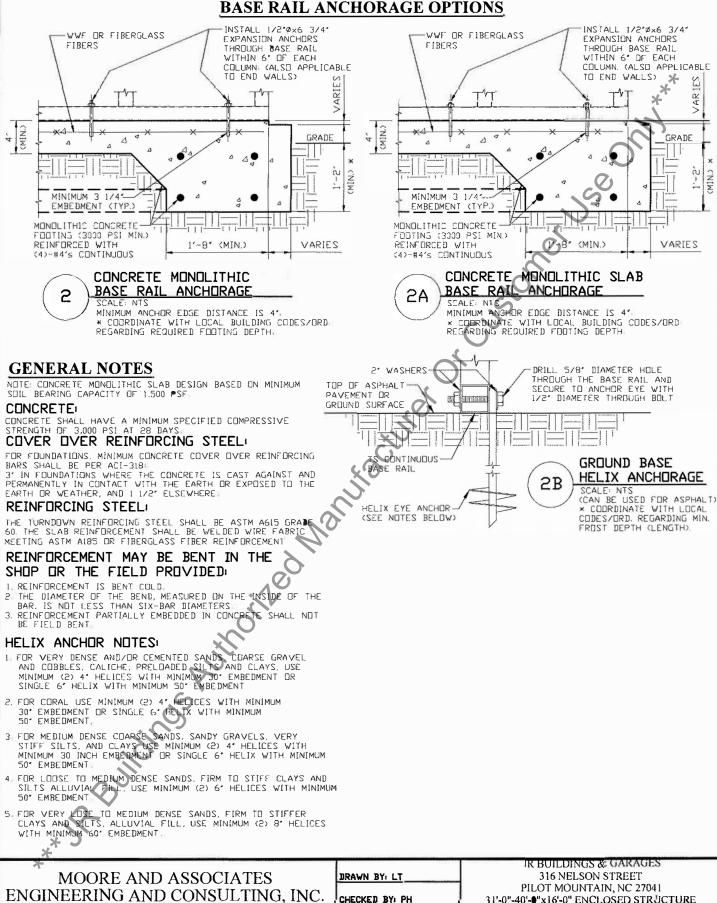
THROUGH BASE RAIL WITHIN 6' DF EACH

TO END WALLS)

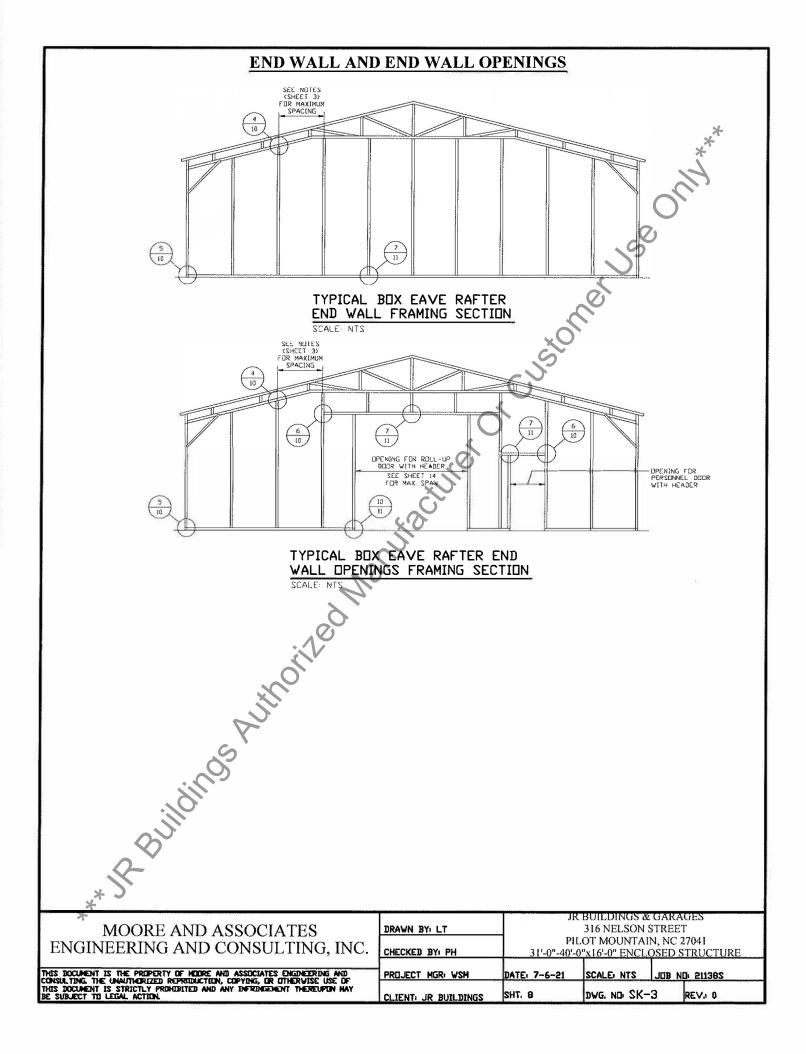
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. 4

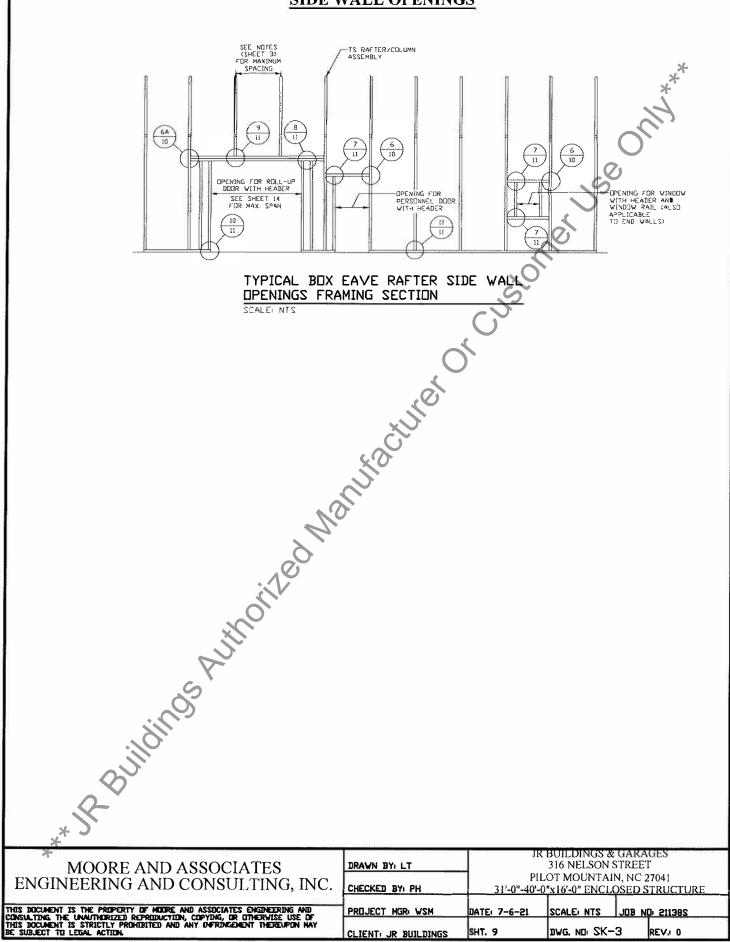
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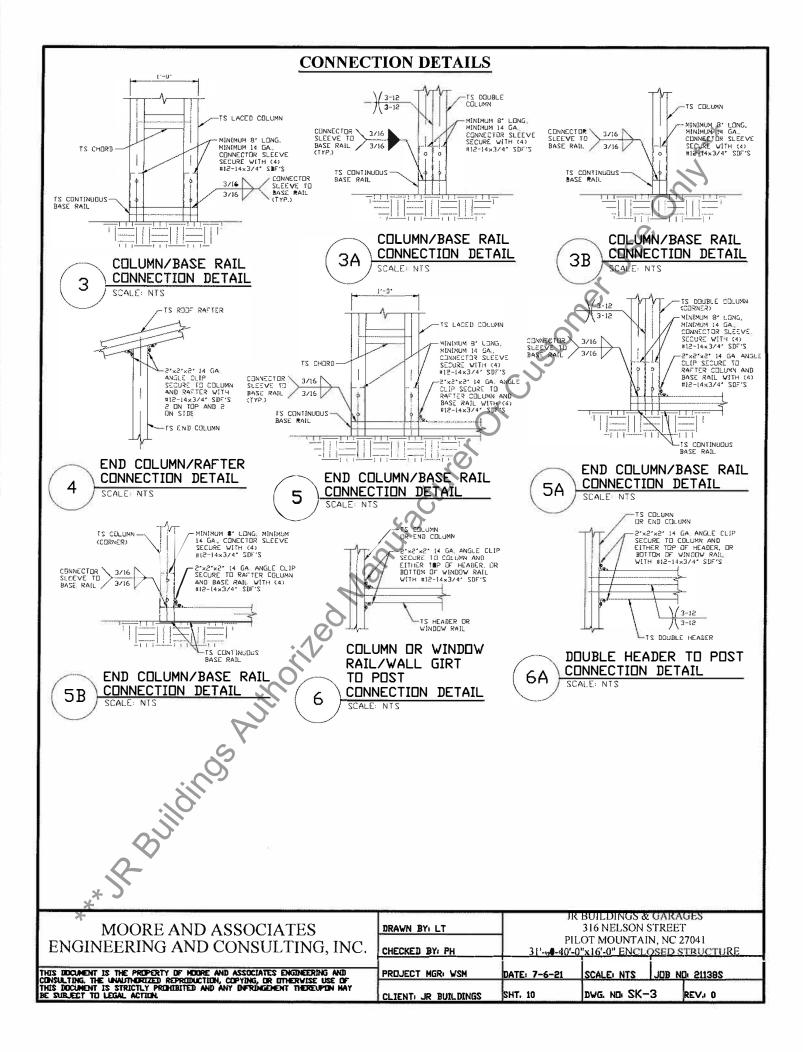


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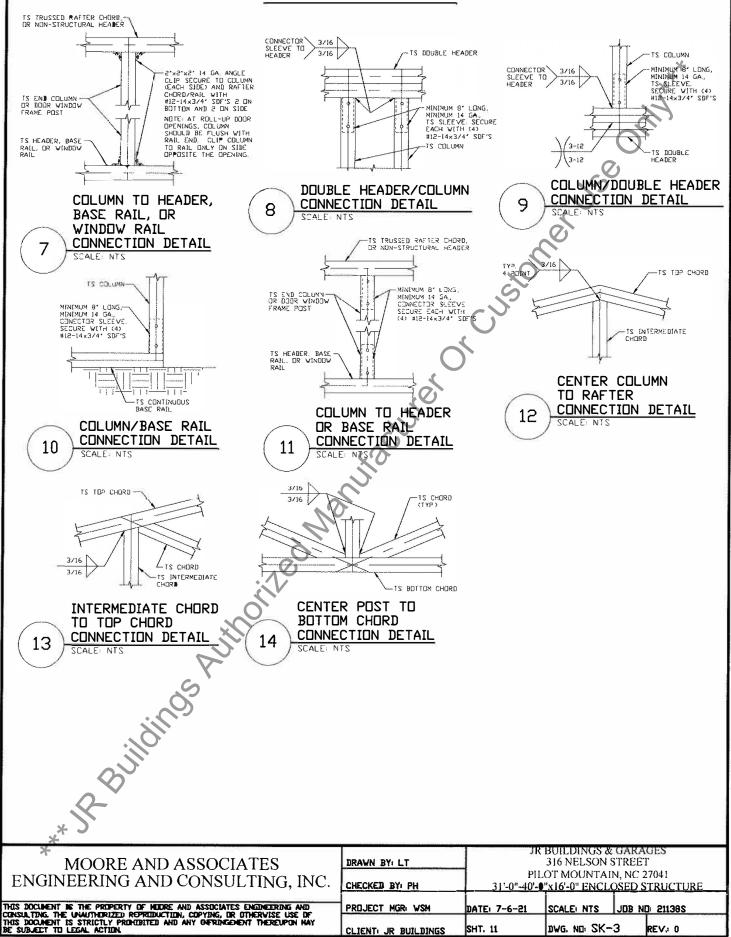


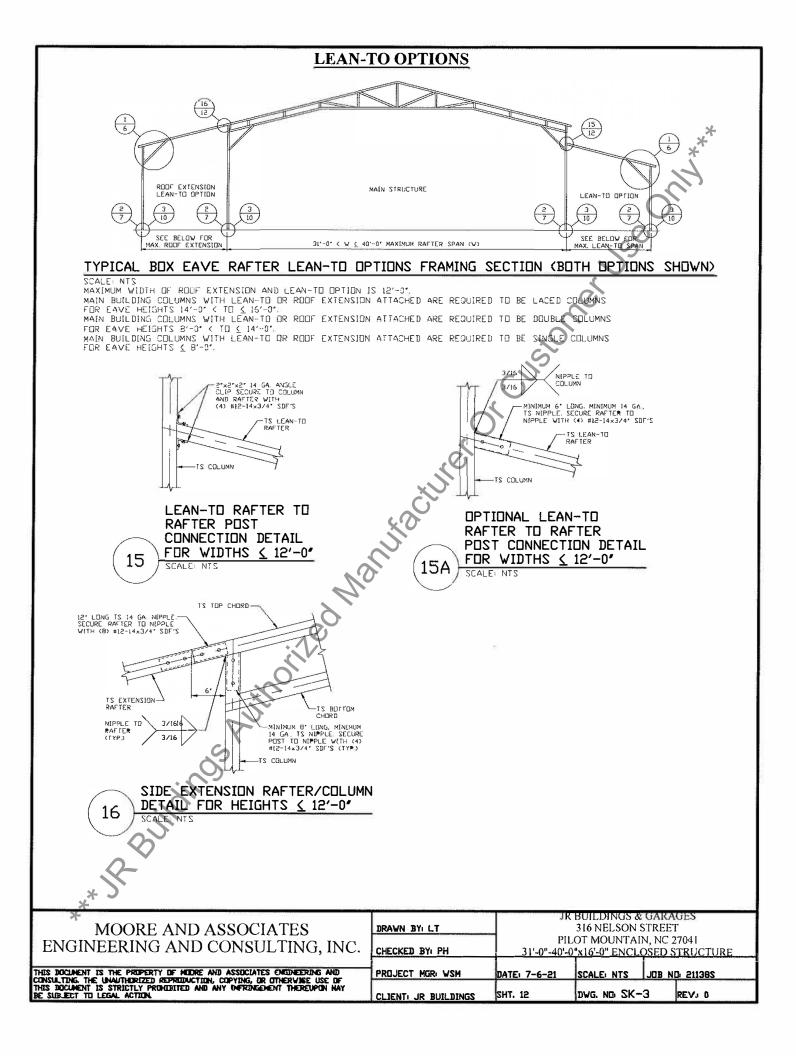
# SIDE WALL OPENINGS

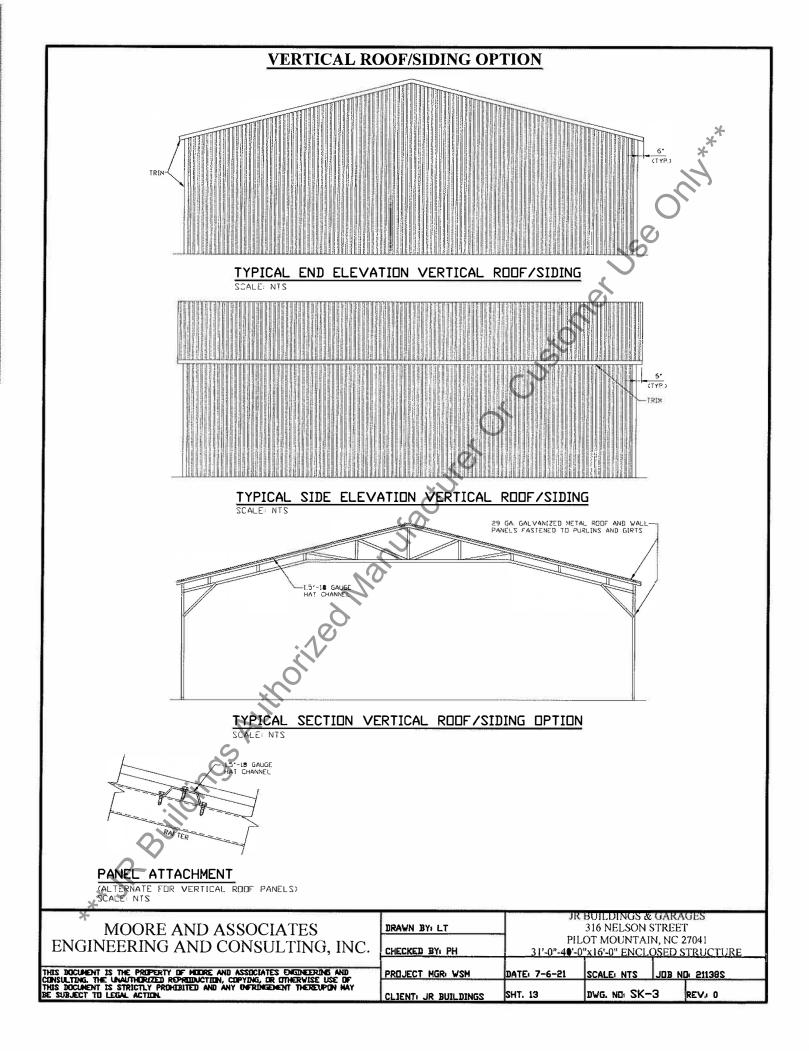




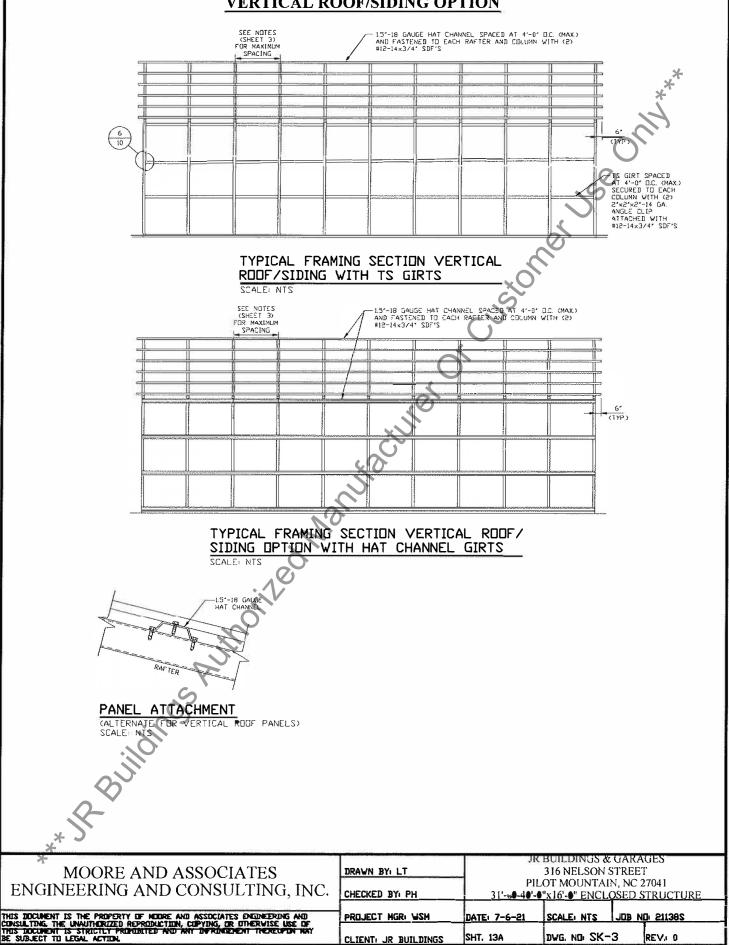
## **CONNECTION DETAILS**



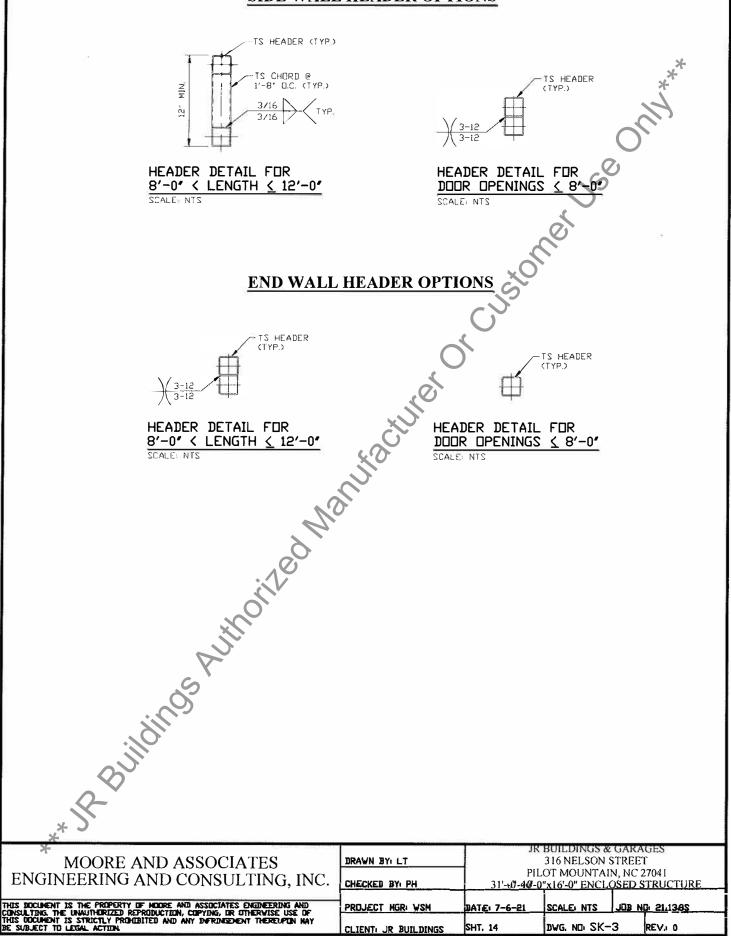




# **VERTICAL ROOF/SIDING OPTION**



#### **SIDE WALL HEADER OPTIONS**



#### END OF ADDENDUM #3