Heritage Middle School Renovation

Liberty Public Schools

600 W Kansas Street
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS



INDEX OF DRAWINGS

GENERAL	
G000	COVER SHEET
G010	CODE INFORMATION
G030	UL ASSEMBLIES
G100	CODE FLOOR PLAN OVERALL LEVEL 0
G100C	CODE FLOOR PLAN - BUILDINGS 1 & 3 - LEVEL 0
G101	CODE FLOOR PLAN OVERALL LEVEL 1
G101A	CODE FLOOR PLAN - BUILDING 1 - LEVEL 1
G102	CODE FLOOR PLAN OVERALL LEVEL 2
G102A	CODE FLOOR PLAN - BUILDING 1 - LEVEL 2
G103	CODE FLOOR PLAN OVERALL LEVEL 3
G103B	CODE FLOOR PLAN - BUILDING 1 - LEVEL 3
DEMOLITION - ARCHITECTURE	
DA100A	DEMOLITION FLOOR PLAN - AREA A - LEVEL 0
DA100B	DEMOLITION FLOOR PLAN - AREA B - LEVEL 0
DA100C	DEMOLITION FLOOR PLAN - AREA C - LEVEL 0
DA101A	DEMOLITION FLOOR PLAN - AREA A - LEVEL 1
DA101B	DEMOLITION FLOOR PLAN - AREA B - LEVEL 1
DA102A	DEMOLITION FLOOR PLAN - AREA A - LEVEL 2
DA102B	DEMOLITION FLOOR PLAN - AREA B - LEVEL 2
DA102C	DEMOLITION FLOOR PLAN - AREA C - LEVEL 2
DA103B	DEMOLITION FLOOR PLAN - AREA A - LEVEL 3
DEMOLITION - MECHANICAL / ELECTRICAL	
DME202A	DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA A
DME202B	DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA B
DME202C	DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA C
DEMOLITION MECHANICAL	
DM100A	DEMOLITION HVAC PLAN - LEVEL 0 - AREA A
DM100B	DEMOLITION HVAC PLAN - LEVEL 0 - AREA B
DM100C	DEMOLITION HVAC PLAN - LEVEL 0 - AREA C
DM101A	DEMOLITION HVAC PLAN - LEVEL 1 - AREA A
DM101B	DEMOLITION HVAC PLAN - LEVEL 1 - AREA B
DM102A	DEMOLITION HVAC PLAN - LEVEL 2 - AREA A
DM102B	DEMOLITION HVAC PLAN - LEVEL 2 - AREA B
DM102C	DEMOLITION HVAC PLAN - LEVEL 2 - AREA C
DM103B	DEMOLITION HVAC PLAN - LEVEL 3 - AREA B
DM200A	DEMOLITION HVAC PIPING PLAN - LEVEL 0 - AREA A
DM200B	DEMOLITION HVAC PIPING PLAN - LEVEL 0 - AREA B
DM201A	DEMOLITION HVAC PIPING PLAN - LEVEL 1 - AREA A
DM202A	DEMOLITION HVAC PIPING PLAN - LEVEL 2 - AREA A
DM202B	DEMOLITION HVAC PIPING PLAN - LEVEL 2 - AREA B
DM203B	DEMOLITION HVAC PIPING PLAN - LEVEL 3 - AREA B
DEMOLITION PLUMBING	
DP100A	DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA A
DP100B	DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA B
DP100C	DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA C
DP101A	DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA A
DP101B	DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA B
DP101C	DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA C
DP102A	DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA A
DP102B	DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA B
DP102C	DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA C
DP103B	DEMOLITION PLUMBING PLAN - LEVEL 3 - AREA B
DEMOLITION ELECTRICAL	
DE100A	DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA A
DE100B	DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA B
DE100C	DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA C
DE101A	DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA A
DE101B	DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA B
DE101C	DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA C
DE102A	DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA A
DE102B	DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA B
DE102C	DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA C
DE103B	DEMOLITION LIGHTING PLAN - LEVEL 3 - AREA B
DE200A	DEMOLITION POWER PLAN - LEVEL 0 - AREA A
DE200B	DEMOLITION POWER PLAN - LEVEL 0 - AREA B
DE200C	DEMOLITION POWER PLAN - LEVEL 0 - AREA C
DE201A	DEMOLITION POWER PLAN - LEVEL 1 - AREA A
DE201B	DEMOLITION POWER PLAN - LEVEL 1 - AREA B
DE201C	DEMOLITION POWER PLAN - LEVEL 1 - AREA C
DE202A	DEMOLITION POWER PLAN - LEVEL 2 - AREA A
DE202B	DEMOLITION POWER PLAN - LEVEL 2 - AREA B
DE202C	DEMOLITION POWER PLAN - LEVEL 2 - AREA C
DE203B	DEMOLITION POWER PLAN - LEVEL 3 - AREA B
ARCHITECTURE	
A001	GENERAL ARCHITECTURAL INFORMATION
A100A	FLOOR PLAN - LEVEL 0 - AREA A
A100B	FLOOR PLAN - LEVEL 0 - AREA B
A100C	FLOOR PLAN - LEVEL 0 - AREA C
A101A	FLOOR PLAN - LEVEL 1 - AREA A
A101B	FLOOR PLAN - LEVEL 1 - AREA B
A102A	FLOOR PLAN - LEVEL 2 - AREA A
A102B	FLOOR PLAN - LEVEL 2 - AREA B
A102C	FLOOR PLAN - LEVEL 2 - AREA C
A103B	FLOOR PLAN - LEVEL 3 - AREA B
A120A	REFLECTED CEILING PLAN - LEVEL 0 - AREA A
A120B	REFLECTED CEILING PLAN - LEVEL 0 - AREA B
A120C	REFLECTED CEILING PLAN - LEVEL 0 - AREA C
A121A	REFLECTED CEILING PLAN - LEVEL 1 - AREA A
A121B	REFLECTED CEILING PLAN - LEVEL 1 - AREA B
A122A	REFLECTED CEILING PLAN - LEVEL 2 - AREA A
A122B	REFLECTED CEILING PLAN - LEVEL 2 - AREA B
A122C	REFLECTED CEILING PLAN - LEVEL 2 - AREA C
A123B	REFLECTED CEILING PLAN - LEVEL 3 - AREA B
A125	CEILING DETAILS - AREA A
A126	CEILING DETAILS - AREAS B & C
A141	ROOF PLAN
A201	EXTERIOR ELEVATIONS - OVERALL
A202	EXTERIOR ELEVATIONS - ENLARGED - 1920 BUILDING
A203	EXTERIOR ELEVATIONS - ENLARGED - 1964 ADDITION
A204	EXTERIOR PHOTOS
A301	BUILDING SECTIONS
A331	WALL SECTIONS - EXTERIOR
A332	WALL SECTIONS - INTERIOR
A411	VERTICAL CIRCULATION - AREA A
A412	VERTICAL CIRCULATION - AREA A
A413	VERTICAL CIRCULATION - AREA B
A414	VERTICAL CIRCULATION - AREA B
A501	DOOR SCHEDULE
A502	DOOR & FRAME TYPES
A503	FRAME TYPES
A504	DOOR & WINDOW DETAILS 1964 ADDITION - EXTERIOR
A505	DOOR & WINDOW DETAILS 1920 BUILDING - EXTERIOR
A506	DOOR & WINDOW DETAILS 1920 BUILDING - EXTERIOR
A521	DOOR & WINDOW DETAILS - INTERIOR
A541	ARCHITECTURAL PLAN DETAILS - INTERIOR - COMMONS
A542	ARCHITECTURAL PLAN DETAILS - INTERIOR
A600A	FINISH FLOOR PLAN - LEVEL 0 - AREA A
A600B	FINISH FLOOR PLAN - LEVEL 0 - AREA B
A600C	FINISH FLOOR PLAN - LEVEL 0 - AREA C
A601A	FINISH FLOOR PLAN - LEVEL 1 - AREA A
A601B	FINISH FLOOR PLAN - LEVEL 1 - AREA B
A602A	FINISH FLOOR PLAN - LEVEL 2 - AREA A
A602B	FINISH FLOOR PLAN - LEVEL 2 - AREA B
A602C	FINISH FLOOR PLAN - LEVEL 2 - AREA C
A603B	FINISH FLOOR PLAN - LEVEL 3 - AREA B
A611	FINISH FLOOR PLAN - LEVEL 0 - FLOOR PATTERN
A612	FINISH FLOOR PLAN - LEVEL 1 - FLOOR PATTERN
A621	INTERIOR ELEVATIONS - LEVEL 1 - AREA A + TYP ELEVATIONS
A622	INTERIOR ELEVATIONS - LEVEL 1 - COMMONS
A623	INTERIOR ELEVATIONS - LEVEL 1 - AREA B
A625	INTERIOR ELEVATIONS - LEVEL 2 - AREA A
A626	INTERIOR ELEVATIONS - LEVEL 2 - AREA B
A627	INTERIOR ELEVATIONS - LEVELS 2 + 3 - AREA B
A628	INTERIOR ELEVATIONS - LEVEL 3 - AREA B
A629	INTERIOR ELEVATIONS - LEVEL 0 - AREA C
A630	INTERIOR ELEVATIONS - LEVEL 0 - AREA C
A631	INTERIOR ELEVATIONS - LEVEL 0 - AREA C
A661	INTERIOR DETAILS
A662	INTERIOR DETAILS
A681	ROOM FINISH SCHED. (AREAS A + C) + MAT. FINISH LEGEND
A682	ROOM FINISH SCHEDULE (AREA B)
A700A	SIGNAGE + EGD FLOOR PLAN - AREA A - LEVEL 0
A700B	SIGNAGE + EGD FLOOR PLAN - AREA B - LEVEL 0
A700C	SIGNAGE + EGD FLOOR PLAN - AREA C - LEVEL 0
A701A	SIGNAGE + EGD FLOOR PLAN - AREA A - LEVEL 1
A701B	SIGNAGE +EGD FLOOR PLAN - AREA B - LEVEL 1
A702A	SIGNAGE + EGD FLOOR PLAN - AREA A - LEVEL 2
A702B	SIGNAGE + EGD FLOOR PLAN - AREA B - LEVEL 2
A702C	SIGNAGE + EDG FLOOR PLAN - AREA C - LEVEL 2
A703B	SIGNAGE + EGD FLOOR PLAN - AREA B - LEVEL 3
A711	SIGNAGE & ENVIRONMENTAL GRAPHICS SCHEDULES
A715	ADA & CODE SIGNAGE
A800	ALTERNATE #2 - PLAN & RCP - LEVEL 0 - AREA B
A801	ALTERNATE #2 - PLANS & RCP - LEVEL 1 - AREA B
A802	ALTERNATE #2 - PLAN & RCP - LEVEL 1 - AREA B
A803	ALTERNATE #2 - ELEVATIONS & DETAILS
A804	ALTERNATE #2 - ELEVATIONS & DETAILS
A805	ALTERNATE #3 - A513 STORAGE + A514 COLLABORATION
A806	ALTERNATE #3 - A413 FLEX
A807	ALTERNATE #3 - A413 FLEX
A808	ALTERNATE #5 - ENLARGED TOILET PLANS & DETAILS
A809	ALTERNATE #5 - ENLARGED TOILET PLANS & DETAILS
A810	ALTERNATE #5 - RESTROOM ELEVATIONS
STRUCTURAL	
S001	GENERAL NOTES & DETIALS
S002	CMU DETAILS
S100	LEVEL 0 PLAN - OVERALL
S100C	LEVEL 0 PLAN - AREA A
S101	LEVEL 1 PLAN - OVERALL
S101A	LEVEL 1 PLAN - AREA A
S101B	LEVEL 1 PLAN - AREA B
S102	LEVEL 2 FRAMING PLAN - OVERALL
S102A	LEVEL 2 PLAN - AREA A
S102B	LEVEL 2 PLAN - AREA B
S103	ROOF FRAMING PLAN
S103B	LEVEL 3 PLAN - AREA B
S104A	ROOF FRAMING PLAN - AREA A
S104B	ROOF FRAMING PLAN - AREA B
S300	ROOF FRAMING SECTION
MECHANICAL/ELECTRICAL	
ME101	MECHANICAL AND ELECTRICAL - SYMBOLS AND ABBREVIATIONS
ME202A	MECHANICAL & ELECTRICAL ROOF PLAN - AREA A
ME202B	MECHANICAL & ELECTRICAL ROOF PLAN - AREA B
ME202C	MECHANICAL & ELECTRICAL ROOF PLAN - AREA C
ME301	MECHANICAL AND ELECTRICAL - SCHEDULES
ME302	MECHANICAL AND ELECTRICAL - SCHEDULES
ME303	MECHANICAL AND ELECTRICAL - SCHEDULES
ME401	MECHANCIAL AND ELECTRICAL - DETAILS
ME402	MECHANICAL AND ELECTRICAL - DETAILS
MECHANICAL	
M100A	HVAC PLAN - LEVEL 0 - AREA A
M100B	HVAC PLAN - LEVEL 0 - AREA B
M100C	HVAC PLAN - LEVEL 0 - AREA C
M101A	HVAC PLAN - LEVEL 1 - AREA A
M101B	HVAC PLAN - LEVEL 1 - AREA B
M102A	HVAC PLAN - LEVEL 2 - AREA A
M102B	HVAC PLAN - LEVEL 2 - AREA B
M102C	HVAC PLAN - LEVEL 2 - AREA C
M103B	HVAC PLAN - LEVEL 3 - AREA B
M200A	HVAC PIPING PLAN - LEVEL 0 - AREA A
M201A	HVAC PIPING PLAN - LEVEL 1 - AREA A
M202A	HVAC PIPING PLAN - LEVEL 2 - AREA A
M202B	HVAC PIPING PLAN - LEVEL 2 - AREA B
M203B	HVAC PIPING PLAN - LEVEL 3 - AREA B
M301	HVAC CONTROL DIAGRAMS
PLUMBING	
P001A	UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA A
P001B	UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA B
P001C	UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA C
P100A	PLUMBING PLAN - LEVEL 0 - AREA A
P100B	PLUMBING PLAN - LEVEL 0 - AREA B
P100C	PLUMBING PLAN - LEVEL 0 - AREA C
P101A	PLUMBING PLAN - LEVEL 1 - AREA A
P101B	PLUMBING PLAN - LEVEL 1 - AREA B
P101C	PLUMBING PLAN - LEVEL 1 - AREA C
P102A	PLUMBING PLAN - LEVEL 2 - AREA A
P102B	PLUMBING PLAN - LEVEL 2 - AREA B
P102C	PLUMBING PLAN - LEVEL 2 - AREA C
P103B	PLUMBING PLAN - LEVEL 3 - AREA B
P200	ENLARGED PLUMBING PLANS
FIRE PROTECTION	
FP100	FIRE PROTECTION PLAN - LEVEL 0
FP101	FIRE PROTECTION PLAN - LEVEL 1
FP102	FIRE PROTECTION PLAN - LEVEL 2
FP103	FIRE PROTECTION PLAN - LEVEL 3
ELECTRICAL	
E100A	LIGHTING PLAN - LEVEL 0 - AREA A
E100B	LIGHTING PLAN - LEVEL 0 - AREA B
E100C	LIGHTING PLAN - LEVEL 0 - AREA C
E101A	LIGHTING PLAN - LEVEL 1 - AREA A
E101B	LIGHTING PLAN - LEVEL 1 - AREA B
E101C	LIGHTING PLAN - LEVEL 1 - AREA C
E102A	LIGHTING PLAN - LEVEL 2 - AREA A
E102B	LIGHTING PLAN - LEVEL 2 - AREA B
E102C	LIGHTING PLAN - LEVEL 2 - AREA C
E103B	LIGHTING PLAN - LEVEL 3 - AREA B
E200A	POWER PLAN - LEVEL 0 - AREA A
E200B	POWER PLAN - LEVEL 0 - AREA B
E200C	POWER PLAN - LEVEL 0 - AREA C
E201A	POWER PLAN - LEVEL 1 - AREA A
E201B	POWER PLAN - LEVEL 1 - AREA B
E201C	POWER PLAN - LEVEL 1 - AREA C
E202A	POWER PLAN - LEVEL 2 - AREA A
E202B	POWER PLAN - LEVEL 2 - AREA B
E202C	POWER PLAN - LEVEL 2 - AREA C
E203B	POWER PLAN - LEVEL 3 - AREA B
E301	ELECTRICAL - SCHEDULES AND DETAILS
E302	ELECTRICAL - SCHEDULES AND DETAILS
E303	ELECTRICAL - SCHEDULES AND DETAILS
E304	ELECTRICAL - SCHEDULES AND DETAILS
LOW VOLTAGE	
LV100A	LOW VOLTAGE PLAN - LEVEL 0 - AREA A
LV100B	LOW VOLTAGE PLAN - LEVEL 0 - AREA B
LV100C	LOW VOLTAGE PLAN - LEVEL 0 - AREA C
LV101A	LOW VOLTAGE PLAN - LEVEL 1 - AREA A
LV101B	LOW VOLTAGE PLAN - LEVEL 1 - AREA B
LV101C	LOW VOLTAGE PLAN - LEVEL 1 - AREA C
LV102A	LOW VOLTAGE PLAN - LEVEL 2 - AREA A
LV102B	LOW VOLTAGE PLAN - LEVEL 2 - AREA B
LV102C	LOW VOLTAGE PLAN - LEVEL 2 - AREA C
LV103B	LOW VOLTAGE PLAN - LEVEL 3 - AREA B
FOOD SERVICE	
FS100	FOOD SERVICE EQUIPMENT PLANS AND SCHEDULES

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PRICING ALTERNATES:

ALTERNATE #1: LED LIGHTING REPLACEMENT (PHASE 1)
LED LIGHTING REPLACEMENT AS INDICATED BY TYPE RA FIXTURES, REFER TO MEP DWGS

ALTERNATE #2: LEVEL 0 & 1 1920'S FLEX RENOVATION (PHASE 2)
DEMOLITION AND NEW WORK ASSOCIATED WITH RENOVATING EXISTING LEVEL 0 LOCKER BAY & LEVEL 1 PLC AREA INTO NEW FLEX SPACE, HERITAGE HALL OF FAME, ADMINISTRATION, COUNSELING AND STAFF AREAS AS INDICATED PER DRAWINGS

ALTERNATE #3: LEVEL 1 & LEVEL 2 LOCKER BAY RENOVATION (PHASE 1)
DEMOLITION AND NEW WORK ASSOCIATED WITH RENOVATING EXISTING LEVEL 1 & LEVEL 2 LOCKER BAYS INTO NEW FLEX SPACE / THEATER STORAGE AS INDICATED PER DRAWINGS

ALTERNATE #4: COMMONS STOREFRONT REPLACEMENT (PHASE 1)
DEMOLITION AND NEW WORK ASSOCIATED WITH EAST COMMONS STOREFRONT (FRAME TYPE 17) REPLACEMENT PER ATTACHED DRAWINGS.

ALTERNATE #5: RESTROOM RENOVATIONS (PHASE 1)
DEMOLITION AND NEW WORK ASSOCIATED WITH RENOVATING EXISTING RESTROOMS ON LEVEL 0 & LEVEL 2 (REFER TO A808, A809, A810 & MEP DWGS)

ALTERNATE #6: NUTRITION SERVICES RENOVATION (PHASE 1)
DEMOLITION AND NEW WORK ASSOCIATED WITH SCRAMBLE, CAFETERIA, & EXISTING STAGE AREAS (LEVEL 0, AREA C)

ALTERNATE #7: KITCHEN FLOORING (PHASE 1)
DEMOLITION AND NEW WORK ASSOCIATED WITH NEW RESINOUS FLOOR IN KITCHEN C008 & SCULLERY C009 (LEVEL 0, AREA C)

= Phase 2 Scope of Work
(Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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ARCHITECT
STATE OF MISSOURI

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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COVER SHEET

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PROJECT INFORMATION

PROJECT NUMBER	23024.00
PROJECT NAME	Heritage Middle School Renovations
OWNER	Liberty Public Schools 8 Victory Lane Liberty, MO 64068
AUTHORITY HAVING JURISDICTION	City of Liberty, MO Planning Department 101 East Kansas Street Liberty, MO 64068
RESPONDING FIRE SERVICE	City of Liberty Fire Department
ANTICIPATED OCCUPANCY	8/1/2024 12:00:00 AM
ADOPTED CODES AND ORDINANCES	2018 International Building Code 2018 International Existing Building Code 2017 National Electric Code (NFPA 70) 2018 International Mechanical Code 2018 International Plumbing Code 2012 International Energy Conservation Code 2009 ICC A117.1 Accessible and Usable Buildings and Facilities 2016 ASME A17.1 Safety Code for Elevators and Escalators 2014 ICC 500 Standard on Design and Construction of Storm Shelters Amendments

BLDG 1

BUILDING INFORMATION

OCCUPANCY CLASSIFICATION:	Educational, Group E (305.1)
CONSTRUCTION TYPE:	II-B (602.2, Non-combustible, non-protected) Renovation to existing structure
BUILDING HEIGHT: Allowable Height (Table 504.3): Building Height: Allowable Stories (Table 504.4): Building Stories:	 55' above grade plane 40' 2 stories above grade plane 3 stories above grade plane
BUILDING AREA: Sprinkler qualifier (Table 506.2): Allowable Area Building Area	 SM: Building 2 or more stories above grade plane with automatic sprinkler system NA for existing building without change of occupancy 74748 sq ft
OCCUPANCY SEPARATION:	No separation requirement (Table 508.4)
INCIDENTAL USE SEPARATION:	No separation requirement (509.3)
FIRE RESISTANCE RATINGS:	(Per Table 601, 602)
Primary Structural Frame: Exterior Bearing Walls: Interior Bearing Walls: Exterior Nonbearing Walls: Interior Nonbearing Walls: Floor Construction / Secondary Members: Roof Construction / Secondary Members:	0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating
Fire Walls	2-Hour (Table 706.4) 90 Minute door with 90 Minute glazing (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Barriers	2-Hour shafts, exit enclosures and passageway walls (Section 707) 90 Minute door with 90 Minute glazing, 100 or 1,296 sq in max (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Partitions	1-Hour rated Corridor wall (708) 20 Minute door 20 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) 45 Minute Fire Windows (Table 716.1(3))
Smoke Barriers / Partitions	1-Hour rated wall assembly (709) 20 Minute door with 20 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) 45 Minute Fire Windows (Table 716.1(3))
Shafts	1-Hour: connecting less than four stories, including any basements, but not any mezzanines (713.4)

BLDG 1

EGRESS COMPONENTS

NUMBER OF EXITS:	2 per space greater than 49 occupants (Table 1006.2.1) 3 per space with load 501 to 1,000; 4 per space over 1,000
DEAD-END CORRIDORS:	50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U (1020.4, Exception 2)
COMMON PATH OF TRAVEL:	75' (Table 1006.2.1)
TRAVEL DISTANCE TO EXIT:	250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2)
CORRIDOR CONSTRUCTION: CORRIDOR WIDTH:	0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) 72" minimum for Group E corridor with required capacity of 100 or more (Table 1020.2) 44" minimum corridor width (Table 1020.2)
MEANS OF EGRESS CAPACITY:	0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg)

BLDG 1

FIRE SAFETY FEATURES

SPRINKLER:	Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (903.3.1.1)
FIRE ALARM SIGNALING:	EVAC (Emergency Voice/Alarm Communication Fire Alarm System provided throughout)

BLDG 1

PLUMBING FIXTURES

Lavatories (Male):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Lavatories (Female):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Drinking Fountains:	E: 1 per 100; A-3: 1 per 500; B: 1 per 100
Service Sink:	1

BLDG 2

BUILDING INFORMATION

OCCUPANCY CLASSIFICATION:	Educational, Group E (305.1)
CONSTRUCTION TYPE:	II-B (602.2, Non-combustible, non-protected) No Work
BUILDING HEIGHT: Allowable Height (Table 504.3): Building Height: Allowable Stories (Table 504.4): Building Stories:	 55' above grade plane 40'-6" 2 stories above grade plane 2 stories above grade plane
BUILDING AREA: Sprinkler qualifier (Table 506.2): Allowable Area Building Area	 SM: Building 2 or more stories above grade plane with automatic sprinkler system NA for existing building without change of occupancy 17590 sq ft
OCCUPANCY SEPARATION:	No separation requirement (Table 508.4)
INCIDENTAL USE SEPARATION:	No separation requirement (509.3)
FIRE RESISTANCE RATINGS:	(Per Table 601, 602)
Primary Structural Frame: Exterior Bearing Walls: Interior Bearing Walls: Exterior Nonbearing Walls: Interior Nonbearing Walls: Floor Construction / Secondary Members: Roof Construction / Secondary Members:	0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating
Fire Walls	2-Hour (Table 706.4) 90 Minute door with 90 Minute glazing (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Barriers	2-Hour shafts, exit enclosures and passageway walls (Section 707) 90 Minute door with 90 Minute glazing, 100 or 1,296 sq in max (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Partitions	1-Hour rated Corridor wall (708) 20 Minute door 20 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) 45 Minute Fire Windows (Table 716.1(3))
Smoke Barriers / Partitions	1-Hour rated wall assembly (709) 20 Minute door with 20 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) 45 Minute Fire Windows (Table 716.1(3))
Shafts	1-Hour: connecting less than four stories, including any basements, but not any mezzanines (713.4)

BLDG 2

EGRESS COMPONENTS

NUMBER OF EXITS:	2 per space greater than 49 occupants (Table 1006.2.1) 3 per space with load 501 to 1,000; 4 per space over 1,000
DEAD-END CORRIDORS:	50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U (1020.4, Exception 2)
COMMON PATH OF TRAVEL:	75' (Table 1006.2.1)
TRAVEL DISTANCE TO EXIT:	250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2)
CORRIDOR CONSTRUCTION: CORRIDOR WIDTH:	0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) 72" minimum for Group E corridor with required capacity of 100 or more (Table 1020.2) 44" minimum corridor width (Table 1020.2)
MEANS OF EGRESS CAPACITY:	0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg)

BLDG 2

FIRE SAFETY FEATURES

SPRINKLER:	No automatic sprinkler system provided
FIRE ALARM SIGNALING:	EVAC (Emergency Voice/Alarm Communication Fire Alarm System provided throughout)

BLDG 2

PLUMBING FIXTURES

Lavatories (Male):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Lavatories (Female):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Drinking Fountains:	E: 1 per 100; A-3: 1 per 500; B: 1 per 100
Service Sink:	1

BLDG 3

BUILDING INFORMATION

OCCUPANCY CLASSIFICATION:	Educational, Group E (305.1)
CONSTRUCTION TYPE:	II-B (602.2, Non-combustible, non-protected) Renovation of Existing Structure
BUILDING HEIGHT: Allowable Height (Table 504.3): Building Height: Allowable Stories (Table 504.4): Building Stories:	 75' above grade plane 34'-6" 3 stories above grade plane 2 stories above grade plane
BUILDING AREA: Sprinkler qualifier (Table 506.2): Allowable Area Building Area	 SM: Building 2 or more stories above grade plane with automatic sprinkler system NA for existing building without change of occupancy 45179 sq ft
OCCUPANCY SEPARATION:	No separation requirement (Table 508.4)
INCIDENTAL USE SEPARATION:	No separation requirement (509.3)
FIRE RESISTANCE RATINGS:	(Per Table 601, 602)
Primary Structural Frame: Exterior Bearing Walls: Interior Bearing Walls: Exterior Nonbearing Walls: Interior Nonbearing Walls: Floor Construction / Secondary Members: Roof Construction / Secondary Members:	0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating
Fire Walls	2-Hour (Table 706.4) 90 Minute door with 90 Minute glazing (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Barriers	2-Hour shafts, exit enclosures and passageway walls (Section 707) 90 Minute door with 90 Minute glazing, 100 or 1,296 sq in max (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Partitions	No fire partitions
Smoke Barriers / Partitions	No smoke barriers / partitions
Shafts	1-Hour: connecting less than four stories, including any basements, but not any mezzanines (713.4)

BLDG 3

EGRESS COMPONENTS

NUMBER OF EXITS:	2 per space greater than 49 occupants (Table 1006.2.1) 3 per space with load 501 to 1,000; 4 per space over 1,000
DEAD-END CORRIDORS:	50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U (1020.4, Exception 2)
COMMON PATH OF TRAVEL:	75' (Table 1006.2.1)
TRAVEL DISTANCE TO EXIT:	250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2)
CORRIDOR CONSTRUCTION: CORRIDOR WIDTH:	0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) 72" minimum for Group E corridor with required capacity of 100 or more (Table 1020.2) 44" minimum corridor width (Table 1020.2)
MEANS OF EGRESS CAPACITY:	0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg)

BLDG 3

FIRE SAFETY FEATURES

SPRINKLER:	Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (903.3.1.1)
FIRE ALARM SIGNALING:	EVAC (Emergency Voice/Alarm Communication Fire Alarm System provided throughout)

BLDG 3

PLUMBING FIXTURES

Lavatories (Male):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Lavatories (Female):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Drinking Fountains:	E: 1 per 100; A-3: 1 per 500; B: 1 per 100
Service Sink:	1

BLDG 4

BUILDING INFORMATION

OCCUPANCY CLASSIFICATION:	Educational, Group E (305.1)
CONSTRUCTION TYPE:	II-B (602.2, Non-combustible, non-protected) Renovation of Existing Structure
BUILDING HEIGHT: Allowable Height (Table 504.3): Building Height: Allowable Stories (Table 504.4): Building Stories:	 75' above grade plane 50'-6" 3 stories above grade plane 2 stories above grade plane
BUILDING AREA: Sprinkler qualifier (Table 506.2): Allowable Area Building Area	 SM: Building 2 or more stories above grade plane with automatic sprinkler system NA for existing building without change of occupancy 42843 sq ft
OCCUPANCY SEPARATION:	No separation requirement (Table 508.4)
INCIDENTAL USE SEPARATION:	No separation requirement (509.3)
FIRE RESISTANCE RATINGS:	(Per Table 601, 602)
Primary Structural Frame: Exterior Bearing Walls: Interior Bearing Walls: Exterior Nonbearing Walls: Interior Nonbearing Walls: Floor Construction / Secondary Members: Roof Construction / Secondary Members:	0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating 0-Hour fire-resistance rating
Fire Walls	2-Hour (Table 706.4) 90 Minute door with 90 Minute glazing (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Barriers	2-Hour shafts, exit enclosures and passageway walls (Section 707) 90 Minute door with 90 Minute glazing, 100 or 1,296 sq in max (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3))
Fire Partitions	No fire partitions
Smoke Barriers / Partitions	No smoke barriers / partitions
Shafts	1-Hour: connecting less than four stories, including any basements, but not any mezzanines (713.4)

BLDG 4

EGRESS COMPONENTS

NUMBER OF EXITS:	2 per space greater than 49 occupants (Table 1006.2.1) 3 per space with load 501 to 1,000; 4 per space over 1,000
DEAD-END CORRIDORS:	50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U (1020.4, Exception 2)
COMMON PATH OF TRAVEL:	75' (Table 1006.2.1)
TRAVEL DISTANCE TO EXIT:	250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2)
CORRIDOR CONSTRUCTION: CORRIDOR WIDTH:	0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) 72" minimum for Group E corridor with required capacity of 100 or more (Table 1020.2) 44" minimum corridor width (Table 1020.2)
MEANS OF EGRESS CAPACITY:	0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg)

BLDG 4

FIRE SAFETY FEATURES

SPRINKLER:	Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (903.3.1.1)
FIRE ALARM SIGNALING:	EVAC (Emergency Voice/Alarm Communication Fire Alarm System provided throughout)

BLDG 4

PLUMBING FIXTURES

Lavatories (Male):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Lavatories (Female):	E: 1 per 50; A-3: 1 per 200; B: 1 per 40 then 1 per 80 over 80
Drinking Fountains:	E: 1 per 100; A-3: 1 per 500; B: 1 per 100
Service Sink:	1

Total Facility Fixture Counts

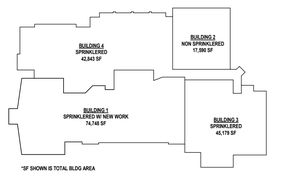
Fixture	Required			Provided			
	Male	Female	Total	Total	Male	Female	Gender Neutral
Water Closets	12	12	24	67	33	41	10
Lavatories	12	12	24	56	23	29	10
Drinking Fountains			12	17			

Urinal Substitutions

Occupancy Group	Percentage Allowed	Required Water Closets	Permitted Substitutions	Substitutions Applied
Assembly / Education	67% of required	12	8	8
All other occupancies	50% of required			

DESIGN MAX POPULATION: 1163 OCCUPANTS
FIXTURE NUMBERS CALCULATED FROM PROJECTED STUDENT ENROLLMENT BASED ON VERIFIED ENROLLMENT W/ SCHOOL DISTRICT

CODE KEY PLAN



*SF SHOWN IS TOTAL BLDG AREA

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Mech/Elect/Plumb Engineer
State Certificate of Authority #EGC-0001787
25618 W 103rd St
Olathe, KS 66061
913.345.2127 phone
913.345.0617 fax

mha Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

The Professional Architects seal affixed to this sheet applies only to the material and items shown on this sheet. All other information shown on drawings prepared by this office but not shown on this sheet is the responsibility of others and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

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DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

G010

CODE INFORMATION

12/8/2023 12:18:02 PM

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UL Product iQ™

BXUV.U465 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings – ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

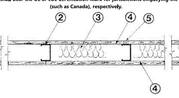
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U465

February 13, 2023

Nonbearing Wall Ratings — 1 Hr.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners** — (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runners** — (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME 024/300D and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME 024/300D and Type SUPREME D20

QUAD, RUN BUILDING MATERIALS INC — Type SUPREME 024/300D and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME 024/300D and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME 024/300D and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME 024/300D and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME 024/300D and Type SUPREME D20

18. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Item 1 — For use with Item 28, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, with min depth to accommodate shot pipe, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1D. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4D only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARCOTECH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Trin-S ProSTUD

1E. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4E only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
KBIB (HONG KONG) LTD — Type KBIB

1G. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.
STUDCO BUILDING SYSTEMS — CRDCSTUD Track

1H. **Floor and Ceiling Runners** — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1J. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

1L. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CRACO MFG INC — SmartTrack20™

2. **Steel Studs** — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs** — As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME 024/300D and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME 024/300D and Type SUPREME D20

QUAD, RUN BUILDING MATERIALS INC — Type SUPREME 024/300D and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME 024/300D and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME 024/300D and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME 024/300D and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME 024/300D and Type SUPREME D20

2B. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 18, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

CRACO MFG INC — SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2C. **Steel Studs** — (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

2D. **Framing Members* — Steel Studs** — As an alternate to Items 2 through 2C — For use with Item 1D and 4D only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
CLARCOTECH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Trin-S ProSTUD

2E. **Framing Members* — Steel Studs** — As an alternate to Items 2 through 2D — For use with Item 1E and 4E only, proprietary channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2F. **Framing Members* — Steel Studs** — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
KBIB (HONG KONG) LTD — Type KBIB

2G. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide. Studs to be cut 1/2 in. less than the assembly height.
STUDCO BUILDING SYSTEMS — CRDCSTUD

2H. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in less in length than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2I. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1J, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

2J. **Framing Members* — Steel Studs** — In lieu of Item 2 — For use with Item 1. channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PBWESTUD

2K. **Framing Members* — Steel Studs** — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2L. **Framing Members* — Steel Studs** — As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaTRAK

2M. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2N. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CRACO MFG INC — SmartTrack20™

3. **Batts and Blankets*** — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See **Batts and Blankets** (BZZC) category for names of Classified companies.

ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3 in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — (N4751, IN4751, IN5750LD, and IRoulmax for use with wet or dry application; IN5765LD and IN5771LD are to be used for dry application only).

3B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to one surface in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lb/ft^3.

INTERNATIONAL CELLULOSE CORP — CellorFill.

3D. **Batts and Blankets*** — For use with Item 8, Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.
See **Batts and Blankets** (BZZC) category for names of manufacturers.

3E. **Batts and Blankets*** — For use with Item 4H and 4S, Placed in stud cavities, any min, 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZZC) Categories for names of Classified companies.

3F. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or nonwoven netting may be attached by any means possible to the outer face the studs. The material shall be installed to provide maximum resistance to convection current before the installation of materials on either face of the studs. The minimum dry density shall be 3.79 lb/ft^3.
APPLEGATE HOLDINGS L L C — Applegate Advanced SoloBind Cellulose Insulation

3G. **Foamed Plastic*** — As an alternate to Batts and Blankets (Item 3) — For use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with no. 20 MSG backing.

3H. **Foamed Plastic*** — As an alternate to Batts and Blankets (Item 3), for use with Item 4M — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with no. 20 MSG backing.
BASF CORP • Enertite® NM, Enertite® G, FE178™, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® USHI, Walltite® HP+, FE137™, FE158™, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, and Walltite® XL

4. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC, along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate dips are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AGxC, AGX-1, Mr.Ideal, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING LLC — Type X, 5/8 Type X, Type Fiberglass Exterior Sheathing

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIB, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X+1, Type C, 5/8" EasiLite Type X, EasiLite Type XP, Type UWTX

CERTAINTEED GYPSUM INC — Types LGFCSX, LGFCSA, LGFC-CA, LGFC-WFO, LGSLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 5, 5 C, DMF, DD, DX, DMFC, DGG, DX, GPTSG, LS, Type X, Veneer Plaster Base + Type X, Water Rated + Type X, Sheathing + Type X, Soffit + Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type UWX, Veneer Plaster Base+Type X, Water Rated+Type UWX, Sheathing Type+UWX, Soffit+Type UWX, Type DGUW, Water Rated+Type DGUW, Sheathing Type+DGUW, Soffit+Type DGUW, Type UWDX, Veneer Plaster Base + Type UWDX, Water Rated + Type UWDX, Sheathing + Type UWDX, Soffit + Type UWDX, Type DGLDW, Water Rated + Type DGLDW, Sheathing + Type DGLDW

NATIONAL GYPSUM CO — Types eXP+C, FSX, FSX+C, FSG+G, FSMR+C, FSMH+C, FSW, FSW+1, FSW+5, FSW+6, FSW+8, FSX, RSX

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-X, PG-1, PG-5/8-WRS, PCB

PANEL REY S A — Types GREA, GRBI, PRC, PRCZ, PRX, RXA, RXCA, RXDA, ETA, PRX2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FirstStop, Gyproc FirstStop MR, Gyproc FirstStop MJTECH, Gyproc FirstStop ACTIPlus, Gyproc FirstStop MR ACTIPlus, Gyproc FirstStop MJTECH ACTIPlus, Gyproc Duraline, Gyproc Duraline MR, Gyproc Duraline MJTECH, Gyproc Duraline ACTIPlus, Gyproc Duraline MR ACTIPlus, Gyproc Duraline MJTECH ACTIPlus

SIAM GYPSUM INDUSTRY (SARAJURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X, Type C

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIB, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4A. **Gypsum Board*** — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied vertically or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally, joints on opposite sides of studs need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CERTAINTEED GYPSUM INC — Types ToughRock, ToughRock Fireguard

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIB, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types LGFCSA, LGFCSX, LGFC-CA, LGFC-WO

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FirstStop, Gyproc FirstStop MR, Gyproc FirstStop MJTECH, Gyproc FirstStop ACTIPlus, Gyproc FirstStop MR ACTIPlus, Gyproc FirstStop MJTECH ACTIPlus, Gyproc Duraline, Gyproc Duraline MR, Gyproc Duraline MJTECH, Gyproc Duraline ACTIPlus, Gyproc Duraline MR ACTIPlus, Gyproc Duraline MJTECH ACTIPlus

SIAM GYPSUM INDUSTRY (SARAJURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X, Type C

UNITED STATES GYPSUM CO — Types SCX, ULIB

USG BORAL DRYWALL SFZ LLC — Type SCX

4H. **Gypsum Board*** — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to studs with No. 8 x 2-1/2 in. coarse drywall screws spaced 8 in. OC at perimeter and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.

4I. **Gypsum Board*** — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to studs with No. 8 x 2-1/2 in. coarse drywall screws spaced 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.

4J. **Gypsum Board*** — (As alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications.

4K. **Gypsum Board*** — (As alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.
CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4L. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — Nom 5/8 in. thick fiber faced gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with 2.8 lb/ft 3 in. thick mineral wool batts Item 3A.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4M. **Gypsum Board*** — (As an alternate to Item 4 and 4A, for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.

CGC INC — Type SCX

UNITED STATES GYPSUM CO — Type SCX

USG MEXICO S A DE C V — Type SCX

4N. **Gypsum Board*** — (Not Shown) — As an alternate to Item 4 when used as the base layer on one or both sides of wall. Nom 1/2 in. thick, 4 ft wide, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with 2.8 lb/ft 3 in. thick mineral wool batts Item 3A.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4O. **Gypsum Board*** — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4P. **Gypsum Board*** — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — Nom 5/8 in. thick fiber faced gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with 2.8 lb/ft 3 in. thick mineral wool batts Item 3A.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4Q. **Gypsum Board*** — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4R. **Gypsum Board*** — (As an alternate to Item 4 when Foam Plastic insulation Item 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in.long Type S steel screws spaced 8 in. OC at perimeter and in the field.

5. **Joint Tape and Compound** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 2-1/2 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel** — (Optional) — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv. steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 galv annealed wire or secured with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J or 4L.

b. **Framing Members*** — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC, and secured to studs with 1-5/8 in. wider or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-6/16 in. wide furring channels, RSIC-1 (2.75) for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Type RSIC-1, RSIC-1 (2.75)

6B. **Framing Members*** — (Optional) on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J or 4L.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv. steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J or 4L.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC, and secured to studs with 2-in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips • Type A2378

6D. **Steel Framing Members*** — (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Da. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J or 4L.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
RESILIENT CHANNEL INC — Type SonoClip

6E. **Steel Framing Members*** — (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** — Formed of No. 25 MSG galv. steel, 2-3/4 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Ea. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 TS x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J or 4L.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6F. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of channels. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members*** — Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6G. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J or 4L.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ga) to studs. Clips spaced 48 in. OC, and secured to studs with 2-in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

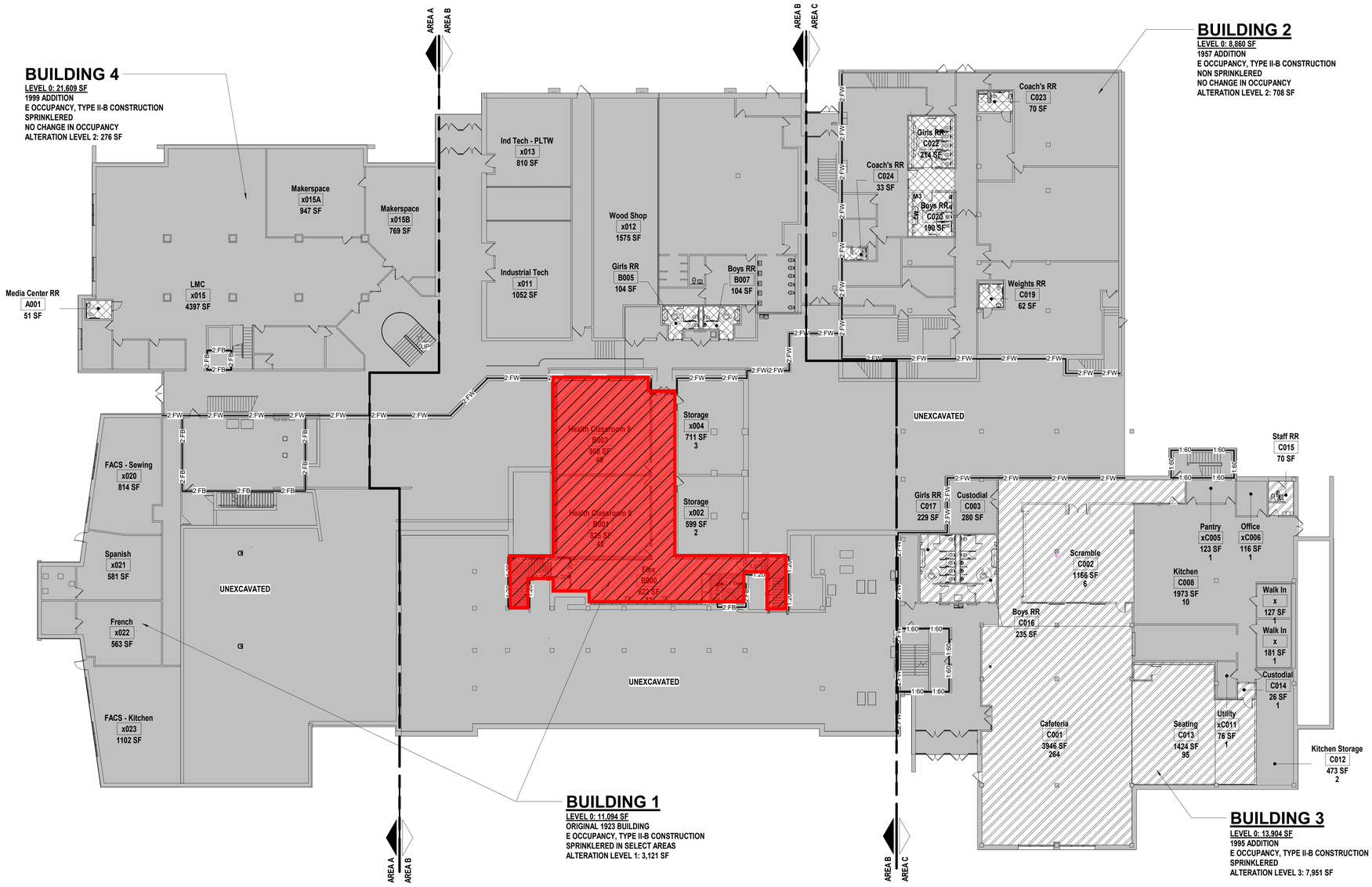
6H. **Steel Framing Members*** — (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J or 4L.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ha) to studs. Clips spaced 48 in. OC, and secured to studs with No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.
MASON INDUSTRIES INC — Type CMC-SO

7. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as indicated as to fastener type and spacing, except the fastener penetration length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board*** — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4W) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11



= Phase 2 Scope of Work
(Not included in this Bid Package)

CODE LEGEND

1:20 — 1 HOUR FIRE PARTITION W/ 20 MIN DOORS

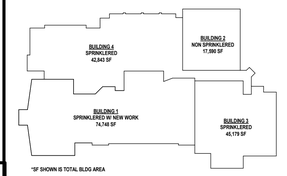
1:60 — 1 HOUR FIRE BARRIER W/ 60 MIN. DOORS

2:FB — 2 HOUR FIRE BARRIER W/ 90 MIN DOORS

2:FW — 2 HOUR FIRE WALL W/ 90 MIN DOORS

- EXISTING BUILDING - NO WORK
- EXISTING BUILDING - ALTERATION LEVEL 1 ALTERATIONS DO NOT INVOLVE SPACE RECONFIGURATION
- EXISTING BUILDING - ALTERATION LEVEL 2 SPACE RECONFIGURATION DOES NOT EXCEED 50% OF THE BUILDING AREA
- EXISTING BUILDING - ALTERATION LEVEL 3 SPACE RECONFIGURATION COVERS MORE THAN 50% OF THE BUILDING AREA
- FH — FIRE HYDRANT
- FDC — FIRE DEPARTMENT CONNECTION
- FACP — FIRE ALARM CONTROL PANEL
- FDA — FIRE DEPARTMENT ACCESS (KNOX BOX)
- FE — FIRE EXTINGUISHER: ON BRACKET: MOUNT HANDLE 48" MAX AFF
- FEC — FIRE EXTINGUISHER CABINET SURACE MOUNTED: 10 44 13.A04 SEMI RECESSED: 10 44 13.A03 IN CABINET: BOTTOM OF CABINET 32" AFF
- EXIT COMPONENT
- 123 / 345 — CAPACITY / ACTUAL OCCUPANT LOAD
- 123 — OCCUPANT COUNT @ ROOM EXIT
- 456 — OCCUPANT SUM
- 131' - 6" — TRAVEL DISTANCE

CODE KEY PLAN



*SF SHOWN IS TOTAL BLDG AREA

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785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

G100

A1 | Scale 1/16" = 1'-0" | Overall Code Plan - Level 0

PROJECT NORTH / TRUE NORTH

CODE FLOOR PLAN OVERALL LEVEL 0

12/8/2023 12:18:09 PM

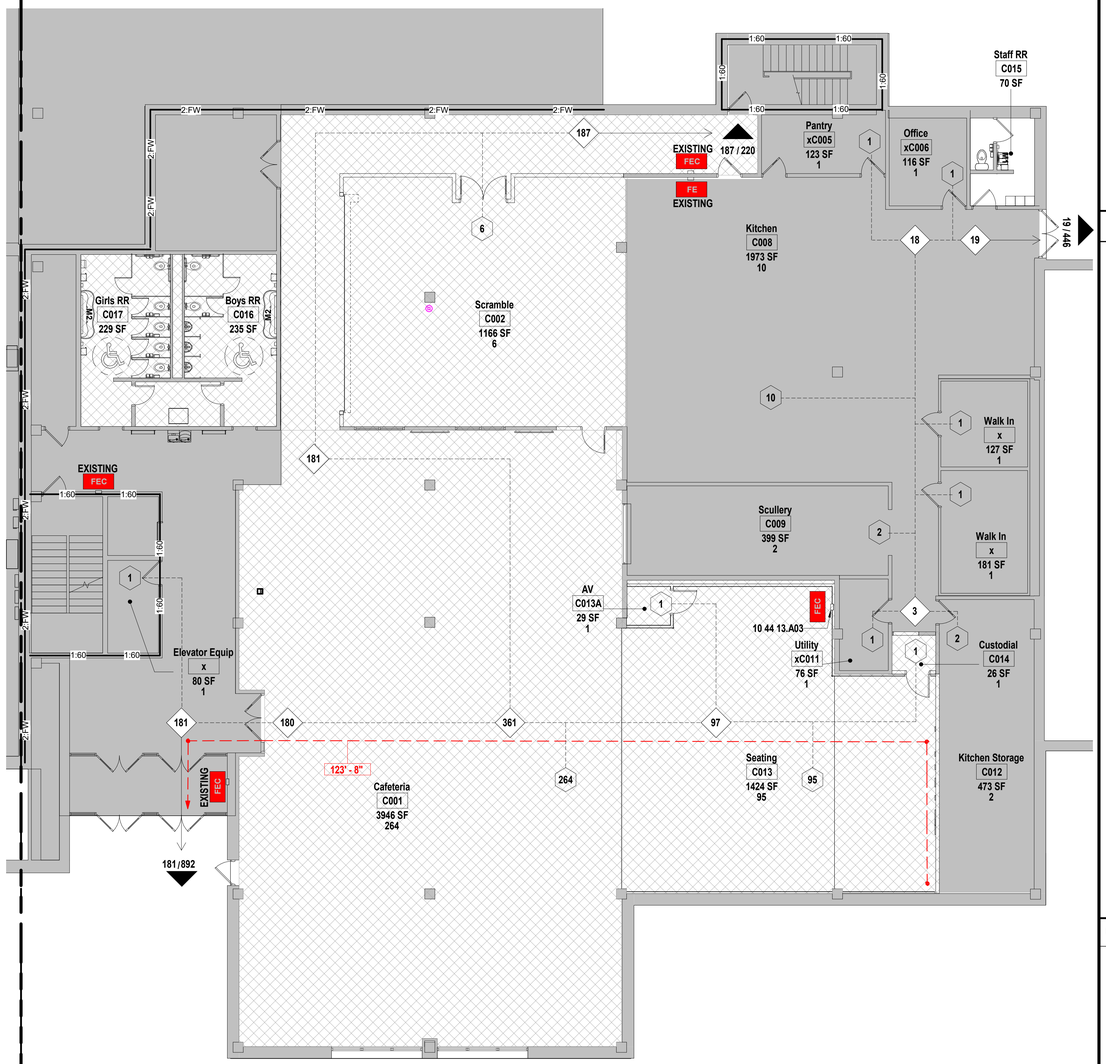
Please consider the environment before printing this.

Code BLDG 1 & 3 Occupant Load Table - Level 0

Rm No	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
B000	Flex	Educational Classroom area	622 SF	20 SF	32
B001	Health Classroom 8	Educational Classroom area	825 SF	20 SF	42
B003	Health Classroom 8	Educational Classroom area	960 SF	20 SF	49
C001	Cafeteria	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	3946 SF	15 SF	264
C002	Scramble	Kitchens, Commercial	1166 SF	200 SF	6
C008	Kitchen	Kitchens, Commercial	1973 SF	200 SF	10
C009	Scullery	Kitchens, Commercial	399 SF	200 SF	2
C012	Kitchen Storage	Accessory Storage Areas, Mechanical Equipment Room	473 SF	300 SF	2
C013	Seating	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	1424 SF	15 SF	95
C013A	AV	Accessory Storage Areas, Mechanical Equipment Room	29 SF	300 SF	1
C014	Custodial	Accessory Storage Areas, Mechanical Equipment Room	26 SF	300 SF	1
x	Elevator Equip	Accessory Storage Areas, Mechanical Equipment Room	80 SF	300 SF	1
x	Walk In	Accessory Storage Areas, Mechanical Equipment Room	127 SF	300 SF	1
x	Walk In	Accessory Storage Areas, Mechanical Equipment Room	181 SF	300 SF	1
x	Storage	Accessory Storage Areas, Mechanical Equipment Room	58 SF	300 SF	1
x002	Storage	Accessory Storage Areas, Mechanical Equipment Room	599 SF	300 SF	2
x004	Storage	Accessory Storage Areas, Mechanical Equipment Room	711 SF	300 SF	3
xC005	Pantry	Kitchens, Commercial	123 SF	200 SF	1
xC006	Office	Business Areas	116 SF	150 SF	1
xC011	Utility	Accessory Storage Areas, Mechanical Equipment Room	76 SF	300 SF	1
Total Building Occupant Load					516

= Phase 2 Scope of Work
(Not included in this Bid Package)





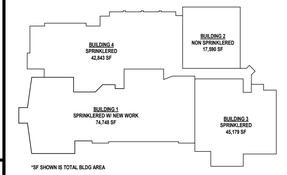
SHEET KEYNOTE LEGEND

10 44 13.A03	SEMI-RECESSED STEEL CABINET

CODE LEGEND

- 1:20 — 1 HOUR FIRE PARTITION W/ 20 MIN DOORS
- 1:60 — 1 HOUR FIRE BARRIER W/ 60 MIN. DOORS
- 2:FB — 2 HOUR FIRE BARRIER W/ 90 MIN DOORS
- 2:FW — 2 HOUR FIRE WALL W/ 90 MIN DOORS
- EXISTING BUILDING - NO WORK
- EXISTING BUILDING - ALTERATION LEVEL 1 — ALTERATIONS DO NOT INVOLVE SPACE RECONFIGURATION
- EXISTING BUILDING - ALTERATION LEVEL 2 — SPACE RECONFIGURATION DOES NOT EXCEED 50% OF THE BUILDING AREA
- EXISTING BUILDING - ALTERATION LEVEL 3 — SPACE RECONFIGURATION COVERS MORE THAN 50% OF THE BUILDING AREA
- FH — FIRE HYDRANT
- FDC — FIRE DEPARTMENT CONNECTION
- FACP — FIRE ALARM CONTROL PANEL
- FDA — FIRE DEPARTMENT ACCESS (KNOX BOX)
- FE — FIRE EXTINGUISHER: ON BRACKET: MOUNT HANDLE 48" MAX AFF
- FEC — FIRE EXTINGUISHER CABINET; SURACE MOUNTED: 10 44 13.A04; SEMI RECESSED: 10 44 13.A03; IN CABINET: BOTTOM OF CABINET 32" AFF
- 123 / 345 — EXIT COMPONENT; CAPACITY; ACTUAL OCCUPANT LOAD
- 123 — OCCUPANT COUNT @ ROOM EXIT
- 456 — OCCUPANT SUM
- 131' - 6" — TRAVEL DISTANCE

CODE KEY PLAN



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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI — KEVIN E. NELSON — A-2019015618 — ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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G100C

A1 Scale 1/8" = 1'-0" — Code Plan - Building 1 - Level 0

A8 Scale 1/8" = 1'-0" — Code Plan - Building 3 - Level 0

PROJECT NORTH / TRUE NORTH

CODE FLOOR PLAN - BUILDINGS 1 & 3 - LEVEL 0

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= Phase 2 Scope of Work
(Not included in this Bid Package)

CODE LEGEND

1:20 — 1 HOUR FIRE PARTITION W/ 20 MIN DOORS

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EXIT COMPONENT

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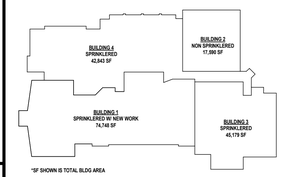

*SF SHOWN IS TOTAL BLDG AREA

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A1 | Scale 1/16" = 1'-0" | Overall Code Plan - Level 1

CODE FLOOR PLAN OVERALL LEVEL 1

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Code BLDG 1 Occupant Load Table - Level 1

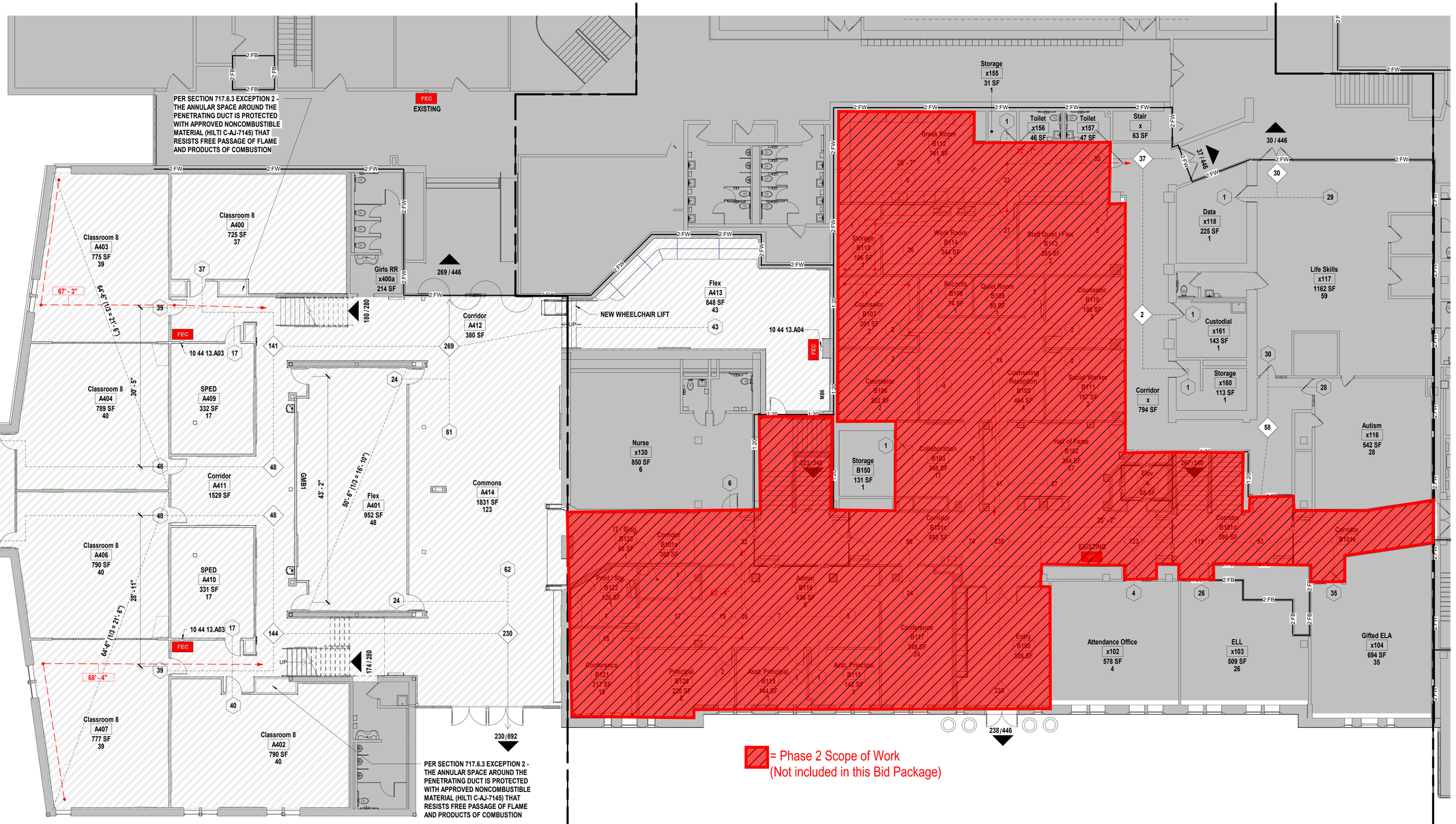
SY	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
A413	Flex	Educational Classroom area	848 SF	20 SF	43
A400	Classroom 8	Educational Classroom area	725 SF	20 SF	37
A401	Flex	Educational Classroom area	952 SF	20 SF	48
A402	Classroom 8	Educational Classroom area	790 SF	20 SF	40
A403	Classroom 8	Educational Classroom area	775 SF	20 SF	39
A404	Classroom 8	Educational Classroom area	789 SF	20 SF	40
A405	Flex Conf	Educational Classroom area	301 SF	20 SF	16
A406	Classroom 8	Educational Classroom area	790 SF	20 SF	40
A407	Classroom 8	Educational Classroom area	777 SF	20 SF	39
A409	SPED	Educational Classroom area	332 SF	20 SF	17
A410	SPED	Educational Classroom area	331 SF	20 SF	17
A414	Commons	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	1831 SF	15 SF	123
B102	Hall of Fame	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	394 SF	15 SF	27
B103	Collaboration	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	248 SF	15 SF	17
B105	Counseling Reception	Business Areas	464 SF	150 SF	4

Code BLDG 1 Occupant Load Table - Level 1

SY	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
B106	Counselor	Business Areas	202 SF	150 SF	2
B107	Counselor	Business Areas	201 SF	150 SF	2
B108	Records	Accessory Storage Areas, Mechanical Equipment Room	74 SF	300 SF	1
B109	Quiet Room	Business Areas	99 SF	150 SF	1
B110	Counselor	Business Areas	198 SF	150 SF	2
B111	Social Worker	Business Areas	197 SF	150 SF	2
B112	Break Room	Business Areas	741 SF	150 SF	5
B113	Staff Quiet / Flex	Business Areas	265 SF	150 SF	2
B114	Work Room	Business Areas	344 SF	150 SF	3
B115	Storage	Accessory Storage Areas, Mechanical Equipment Room	106 SF	300 SF	1
B116	Admin	Business Areas	626 SF	150 SF	5
B117	Conference	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	349 SF	15 SF	24
B118	Asst. Principal	Business Areas	142 SF	150 SF	1
B119	Asst. Principal	Business Areas	144 SF	150 SF	1
B120	Principal	Business Areas	220 SF	150 SF	2

SHEET KEYNOTE LEGEND

10 44 13.A03	SEMI-RECESSED STEEL CABINET
10 44 13.A04	SURFACE MOUNTED STEEL CABINET



A1 | Scale 1/8" = 1'-0" | Code Plan - Building 1 - Level 1

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CODE FLOOR PLAN - BUILDING 1 - LEVEL 1

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A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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G101A

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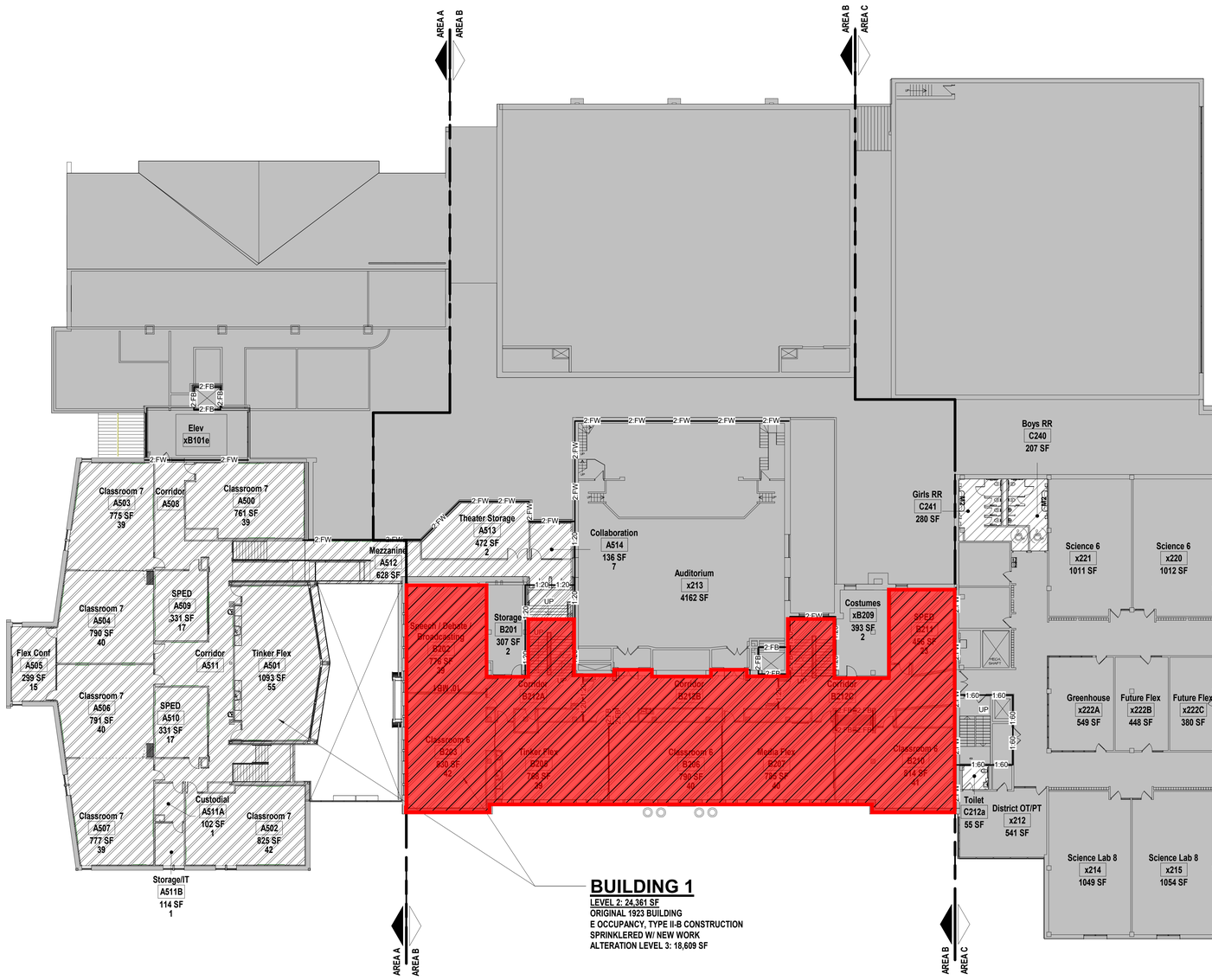

= Phase 2 Scope of Work
(Not included in this Bid Package)

CODE LEGEND

1:20 — 1:20 — 1:20 — 1:20 — 1:20
1 HOUR FIRE PARTITION W/ 20 MIN DOORS

1:60 — 1:60 — 1:60 — 1:60 — 1:60
1 HOUR FIRE BARRIER W/ 60 MIN. DOORS

2:FB — 2:FB — 2:FB — 2:FB — 2:FB
2 HOUR FIRE BARRIER W/ 90 MIN DOORS

2:FW — 2:FW — 2:FW — 2:FW — 2:FW
2 HOUR FIRE WALL W/ 90 MIN DOORS

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EXIT COMPONENT

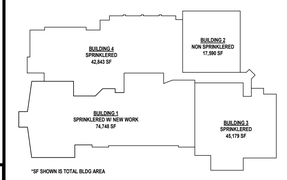
123 / 345 — CAPACITY
ACTUAL OCCUPANT LOAD

123 — OCCUPANT COUNT @ ROOM EXIT

456 — OCCUPANT SUM

131' - 6" — TRAVEL DISTANCE

CODE KEY PLAN



*SF SHOWN IS TOTAL BLDG AREA

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A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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A1 | Scale 1/16" = 1'-0" | Overall Code Plan - Level 2

CODE FLOOR PLAN OVERALL LEVEL 2

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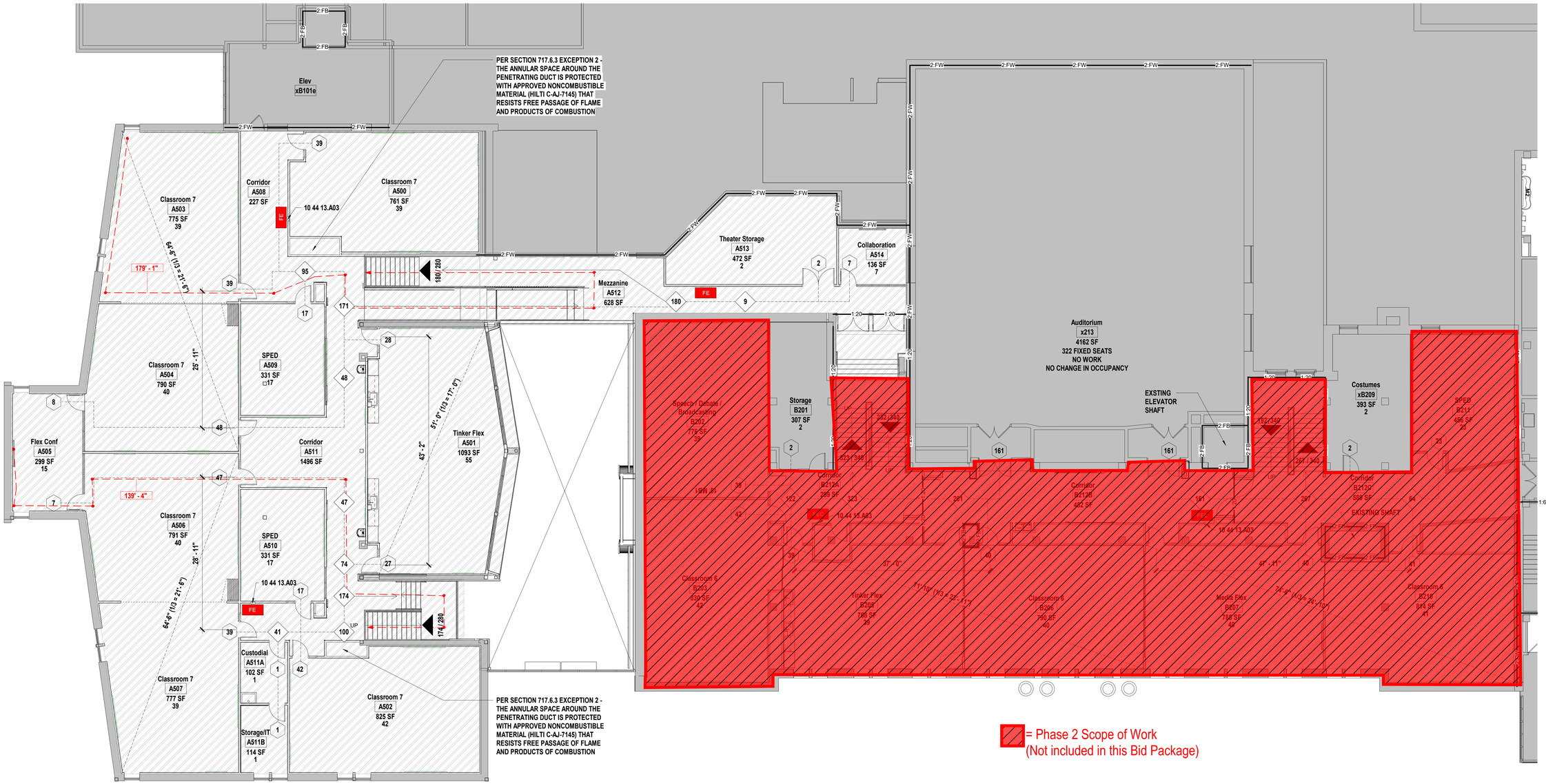
Code BLDG 1 Occupant Load Table - Level 2

Rm No	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
A513	Theater Storage	Accessory Storage Areas, Mechanical Equipment Room	472 SF	300 SF	2
A514	Collaboration	Educational Classroom area	136 SF	20 SF	7
A500	Classroom 7	Educational Classroom area	761 SF	20 SF	39
A501	Tinker Flex	Educational Classroom area	1093 SF	20 SF	55
A502	Classroom 7	Educational Classroom area	825 SF	20 SF	42
A503	Classroom 7	Educational Classroom area	775 SF	20 SF	39
A504	Classroom 7	Educational Classroom area	790 SF	20 SF	40
A505	Flex Conf	Educational Classroom area	299 SF	20 SF	15
A506	Classroom 7	Educational Classroom area	791 SF	20 SF	40
A507	Classroom 7	Educational Classroom area	777 SF	20 SF	39
A509	SPED	Educational Classroom area	331 SF	20 SF	17
A510	SPED	Educational Classroom area	331 SF	20 SF	17
A511A	Custodial	Accessory Storage Areas, Mechanical Equipment Room	102 SF	300 SF	1
A511B	Storage/IT	Accessory Storage Areas, Mechanical Equipment Room	114 SF	300 SF	1
B201	Storage	Accessory Storage Areas, Mechanical Equipment Room	307 SF	300 SF	2
B202	Speech / Debate / Broadcasting	Educational Classroom area	776 SF	20 SF	39
B203	Classroom 6	Educational Classroom area	830 SF	20 SF	42
B205	Tinker Flex	Educational Classroom area	768 SF	20 SF	39
B206	Classroom 6	Educational Classroom area	790 SF	20 SF	40
B207	Media Flex	Educational Classroom area	785 SF	20 SF	40
B210	Classroom 6	Educational Classroom area	814 SF	20 SF	41
B211	SPED	Educational Classroom area	456 SF	20 SF	23
xB209	Costumes	Accessory Storage Areas, Mechanical Equipment Room	393 SF	300 SF	2
Total Building Occupant Load					622

SHEET KEYNOTE LEGEND

10 44 13.A03	SEMI-RECESSED STEEL CABINET



A1 Scale 1/8" = 1'-0" — Code Plan - Buildings 1 & 5 - Level 2

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CODE FLOOR PLAN - BUILDING 1 - LEVEL 2

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REVISIONS:

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1:60

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DECEMBER 7, 2023
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A-2019015618

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G102A

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BUILDING 1
LEVEL 3: 9,942 SF
ORIGINAL 1923 BUILDING
E OCCUPANCY, TYPE II-B CONSTRUCTION
SPRINKLERED W/ NEW WORK
ALTERATION LEVEL 3: 7,820 SF

= Phase 2 Scope of Work
(Not included in this Bid Package)

CODE LEGEND

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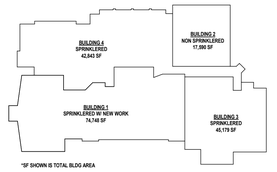

*SF SHOWN IS TOTAL BLDG AREA

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A1 | Scale 1/16" = 1'-0" | Overall Code Plan - Level 3

CODE FLOOR PLAN OVERALL LEVEL 3

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ARCHITECT

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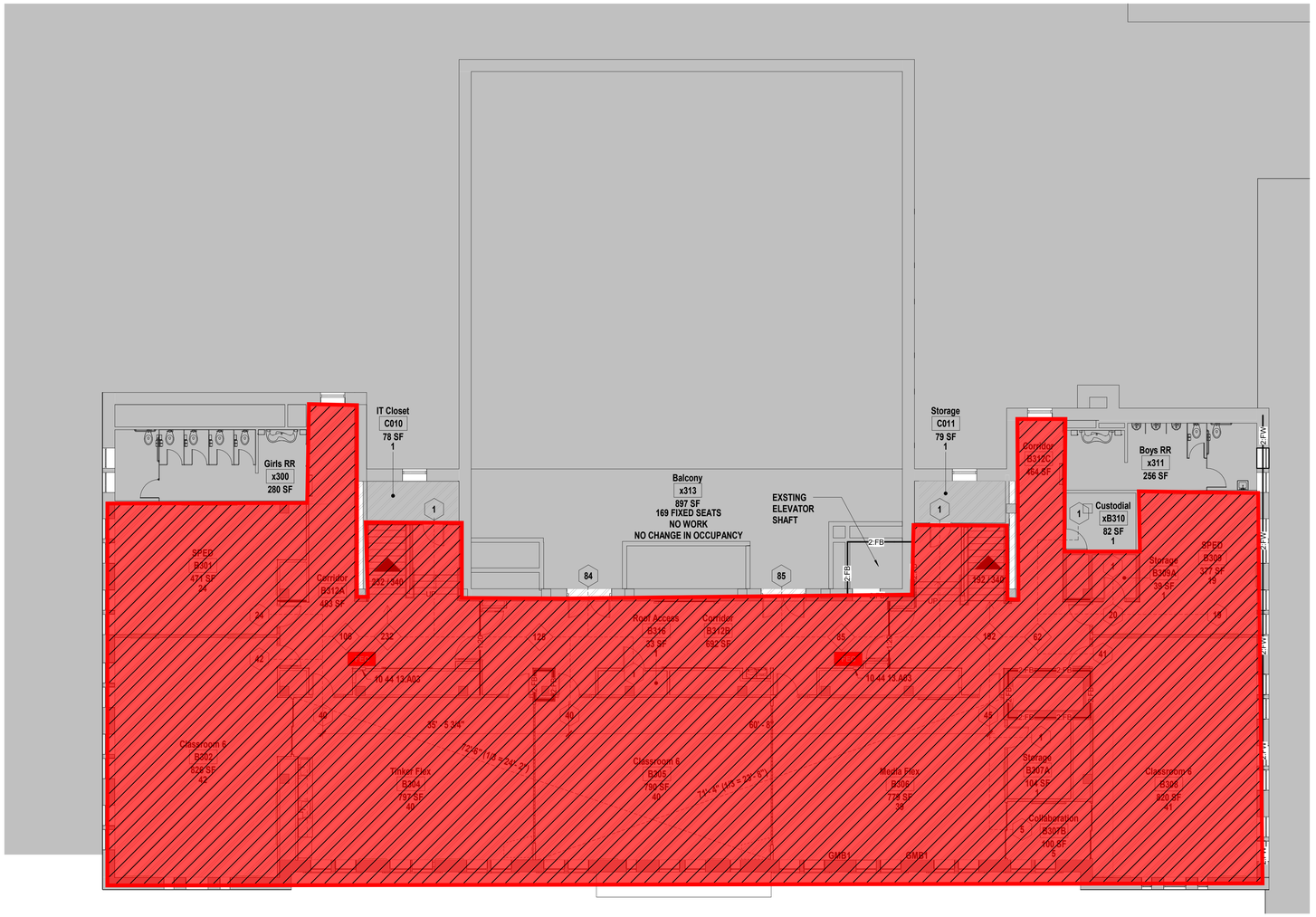
Code BLDG 1 Occupant Load Table - Level 3

Rm No	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
B301	SPED	Educational Classroom area	471 SF	20 SF	24
B302	Classroom 6	Educational Classroom area	826 SF	20 SF	42
B304	Tinker Flex	Educational Classroom area	797 SF	20 SF	40
B305	Classroom 6	Educational Classroom area	790 SF	20 SF	40
B306	Media Flex	Educational Classroom area	779 SF	20 SF	39
B307A	Storage	Accessory Storage Areas, Mechanical Equipment Room	104 SF	300 SF	1
B307B	Collaboration	Educational Classroom area	100 SF	20 SF	5
B308	Classroom 6	Educational Classroom area	820 SF	20 SF	41
B309	SPED	Educational Classroom area	377 SF	20 SF	19
B316	Roof Access	Accessory Storage Areas, Mechanical Equipment Room	33 SF	300 SF	1
C010	IT Closet	Accessory Storage Areas, Mechanical Equipment Room	78 SF	300 SF	1
C011	Storage	Accessory Storage Areas, Mechanical Equipment Room	79 SF	300 SF	1
xB310	Custodial	Accessory Storage Areas, Mechanical Equipment Room	82 SF	300 SF	1
Level 3					255
Total Building Occupant Load					255



SHEET KEYNOTE LEGEND

10 44 13.A03 SEMI-RECESSED STEEL CABINET

= Phase 2 Scope of Work
(Not included in this Bid Package)

CODE LEGEND

1:20 — 1 HOUR FIRE PARTITION W/ 20 MIN DOORS

1:60 — 1 HOUR FIRE BARRIER W/ 60 MIN. DOORS

2:FB — 2 HOUR FIRE BARRIER W/ 90 MIN DOORS

2:FW — 2 HOUR FIRE WALL W/ 90 MIN DOORS

EXISTING BUILDING - NO WORK

EXISTING BUILDING - ALTERATION LEVEL 1
ALTERATIONS DO NOT INVOLVE SPACE RECONFIGURATION

EXISTING BUILDING - ALTERATION LEVEL 2
SPACE RECONFIGURATION DOES NOT EXCEED 50% OF THE BUILDING AREA

EXISTING BUILDING - ALTERATION LEVEL 3
SPACE RECONFIGURATION COVERS MORE THAN 50% OF THE BUILDING AREA

FH — FIRE HYDRANT

FDC — FIRE DEPARTMENT CONNECTION

FACP — FIRE ALARM CONTROL PANEL

FDA — FIRE DEPARTMENT ACCESS (KNOX BOX)

FE — FIRE EXTINGUISHER:
ON BRACKET: MOUNT HANDLE 48" MAX AFF

FEC — FIRE EXTINGUISHER CABINET
SURACE MOUNTED: 10 44 13.A04
SEMI RECESSED: 10 44 13.A03
IN CABINET: BOTTOM OF CABINET 32" AFF

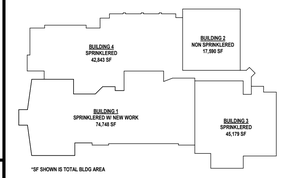
123 / 345 — EXIT COMPONENT
CAPACITY
ACTUAL OCCUPANT LOAD

123 — OCCUPANT COUNT @ ROOM EXIT

456 — OCCUPANT SUM

131' - 6" — TRAVEL DISTANCE

CODE KEY PLAN



*SF SHOWN IS TOTAL BLDG AREA

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

*The Professional Architects seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

G103B

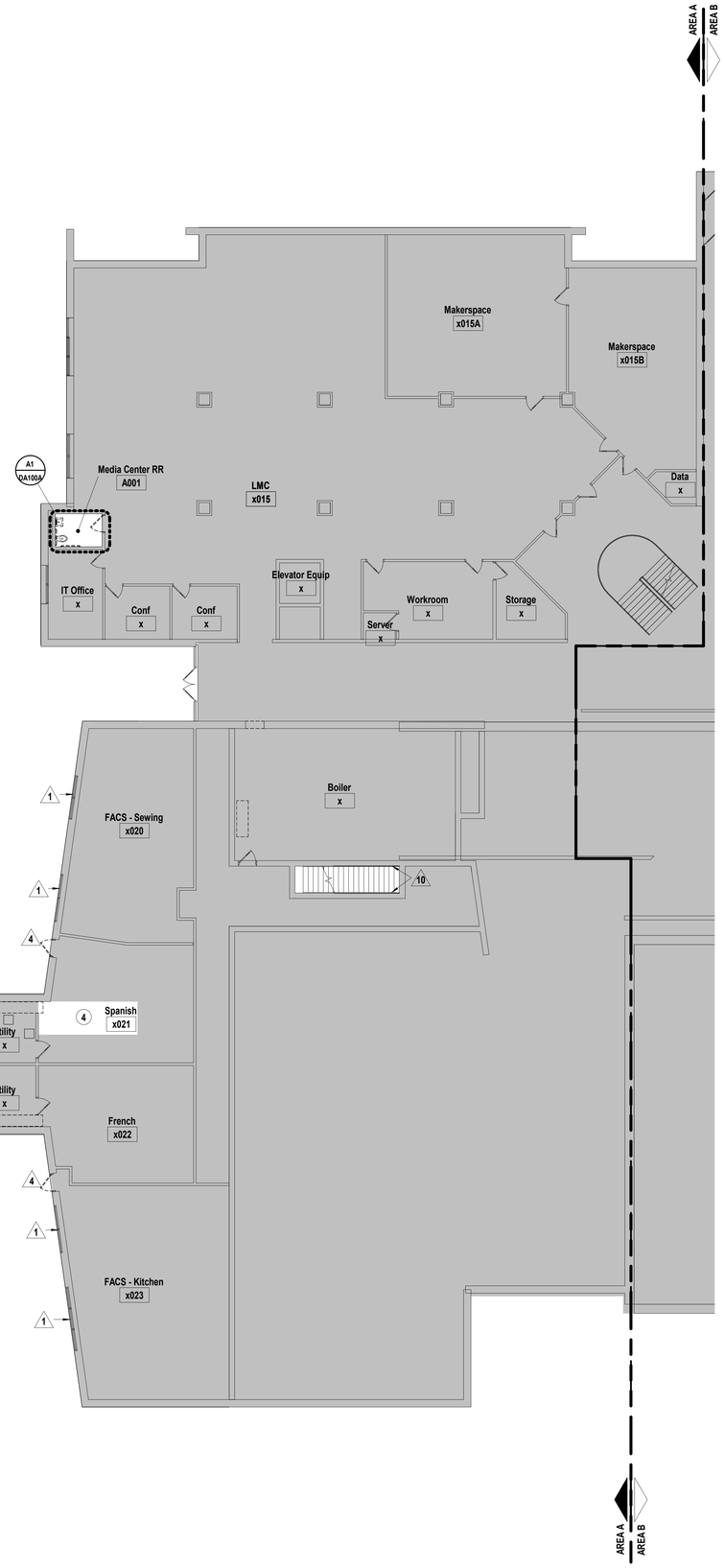
A1 | Scale 1/8" = 1'-0" | Code Plan - Building 1 - Level 3

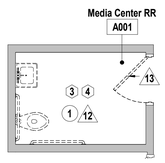
PROJECT NORTH TRUE NORTH

CODE FLOOR PLAN - BUILDING 1 - LEVEL 3

12/8/2023 12:18:48 PM

Please consider the environment before printing this.





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2. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE DEMOLISHED/REMOVED
3. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN
4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION CONTRACTOR SHALL COORDINATE WITH THE GC/CM TO ENSURE ALL REQUIRED ITEMS ARE REMOVED IN ORDER FOR NEW WORK TO BE COMPLETED
5. IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CEILINGS, FLOOR AND WALLS ARE TO BE REMOVED, INCLUDING BRACKETS, SCREWS, SIGNAGE, SURFACE MOUNTED ELECTRICAL AND TECHNOLOGY; REMOVE ALL WINDOW COVERINGS; MINI-BLINDS, ROLLER SHADES AND ALL BRACKETS
6. THE OWNER WILL IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR DEMOLITION STARTING. CONTRACTOR SHALL SALVAGE AND TURN OVER TO THE OWNER ALL EQUIPMENT IDENTIFIED. ALL REMAINING ITEMS SHALL BE REMOVED BY THE DEMOLITION CONTRACTOR
7. DO NOT DISTURB SOIL UNDER EXISTING FOOTINGS AND/OR FLOOR SLABS NOTED TO REMAIN
8. COORDINATE THE REMOVAL OF ALL/PORTIONS OF LOAD BEARING ELEMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO REMOVAL. PROVIDE TEMPORARY SHORING AS REQUIRED
9. REFER TO MEP DEMOLITION SHEETS FOR EXISTING MECHANICAL, ELECTRICAL AND PLUMBING TO BE REMOVED

CEILINGS

1. REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION SYSTEM, LIGHTING FIXTURES, CONDUITS AND CEILING HUNG MECHANICAL UNITS AND COMPONENTS. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM.
2. REMOVE EXISTING PLASTER CEILING AND EXISTING FRAMING.
3. REMOVE EXISTING LAY-IN ACOUSTICAL TILE. SUSPENSION GRID TO REMAIN. REMOVE LIGHTING FIXTURES, CONDUITS & CEILING HUNG MECHANICAL UNITS/COMPONENTS AS NOTED (RE:MEP).
4. TEMPORARILY REMOVE EXISTING LAY-IN ACOUSTICAL TILE. SUSPENSION GRID TO REMAIN. REMOVE MEP UNITS/COMPONENTS AS NOTED (RE:MEP).
5. REMOVE EXISTING SOFFIT
6. REMOVE PROJECTOR AND SCREEN, SALVAGE TO OWNER
7. MODIFY EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION GRID AS REQUIRED FOR NEW WORK.

DEMOLITION NOTES

FLOORS & BASE

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2. REMOVE EXISTING CONCRETE SLAB/RAMP AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS.
3. REMOVE EXISTING RESINOUS FLOOR & BASE
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5. REMOVE EXISTING CAST IN PLACE CONCRETE STAIRS.
6. REMOVE PORTION OF EXSTING STAIR. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION.
7. REFINISH EXISTING METAL PAN AT STAIR TREADS. REFER TO EXISTING PHOTOS ON SHEET DA101B.
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10. REMOVE EXISTING QUARRY/CERAMIC/ PORCELAIN TILE AND BASE (INCLUDING ADHESIVE).

WALLS

A. REMOVE EXISTING ALUMINUM OR HOLLOW METAL WINDOW SYSTEM. ROLLER SHADES/MINI BLINDS & ASSOCIATED BLOCKING AND BRACKETS
2. REMOVE ALL/PORTION OF EXISTING CMU/BRICK/GLAZED BLOCK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
3. REMOVE ALL/PORTION OF EXISTING METAL STUD AND GYPSUM BOARD OR PLASTER WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
4. REMOVE EXISTING ALUMINUM OR HOLLOW METAL FRAME, DOOR AND ALL RELATED HARDWARE.
5. REMOVE ALL EXISTING LOCKERS AND CONCRETE BASE. LEVEL SLAB AS REQUIRED FOR NEW WORK.
6. REMOVE GYPSUM BOARD FROM EXISTING STUD WALL. CLEAN AND PREPARE FOR NEW GYPSUM BOARD, EXISTING STUDS TO REMAIN.
7. REMOVE EXISTING CASEWORK (COUNTERTOP, BASE CABINETS AND UPPER CABINETS) AND ALL PLUMBING FIXTURES. REFER TO MEP SHEETS FOR EXISTING PLUMBING AND ELECTRICAL CONDUIT TO BE CAPPED
8. REMOVE EXISTING STUD FRAMED PLATFORM.
9. REMOVE EXISTING OVERHEAD/COILING DOOR AND ALL RELATED APPARATUS.
10. REMOVE EXISTING GUARDRAILS AND HANDRAILS FROM EXISTING STAIRS, LANDING, AND MEZZANINE.
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12. REMOVE PLUMBING FIXTURES AND ASSOCIATED PARTITIONS. REMOVE EXISTING TOILET ACCESSORIES, MIRRORS ETC. UNLESS OTHERWISE NOTED. SALVAGE WALL MOUNTED SHELVES WITH HOOKS TO OWNER.
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15. REMOVE EXISTING DISPLAY CASE. SALVAGE TO OWNER.
16. CAREFULLY REMOVE AND STORE EXISTING SHELVES FOR REINSTALLATION.
17. REMOVE EXISTING FIRE EXTINGUISHER AND ALL RELATED APPARATUS.
18. CAREFULLY REMOVE EXISTING MARKERBOARDS, CHALKBOARDS, TACKBOARDS/TACKWALL, CLASSROOM PROJECTORS + SCREENS, AND CUSTODIAL STORAGE EQUIPMENT, INCLUDING ADHESIVE AND BRACKETS. SALVAGE TO OWNER.
19. REMOVE ALL/PORTION OF EXISTING EXTERIOR BRICK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
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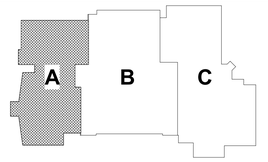
21. CAREFULLY REMOVE EXISTING EMERGENCY EQUIPMENT/EMERGENCY EVACUATION EQUIPMENT/FIRST AID KIT. SALAVGE FOR REINSTALLATION.

KEY PLAN



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Liberty Public Schools

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Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT

DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

DA100A

A1 Scale 1/4" = 1'-0" — Demolition Plan - Level 0 - A001 Media Center RR

A5 Scale 3/32" = 1'-0" — Demolition Floor Plan - Level 0 - Area A

PROJECT NORTH TRUE NORTH

DEMOLITION FLOOR PLAN - AREA A - LEVEL 0

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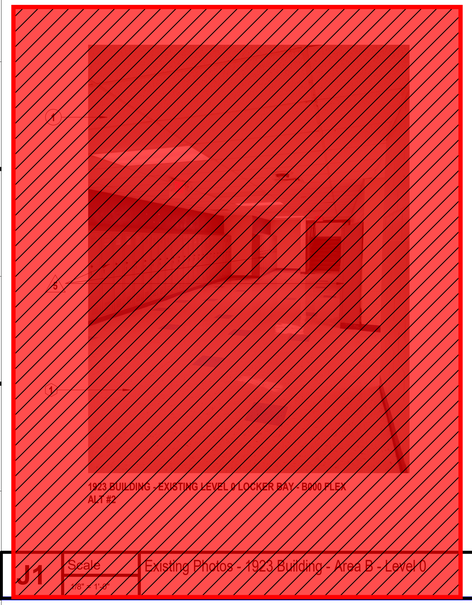
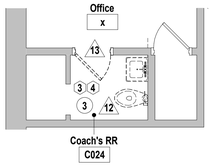
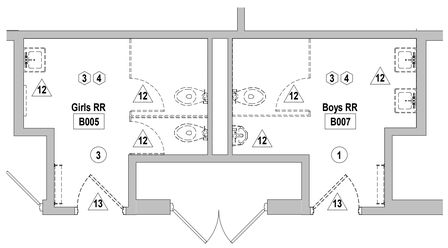


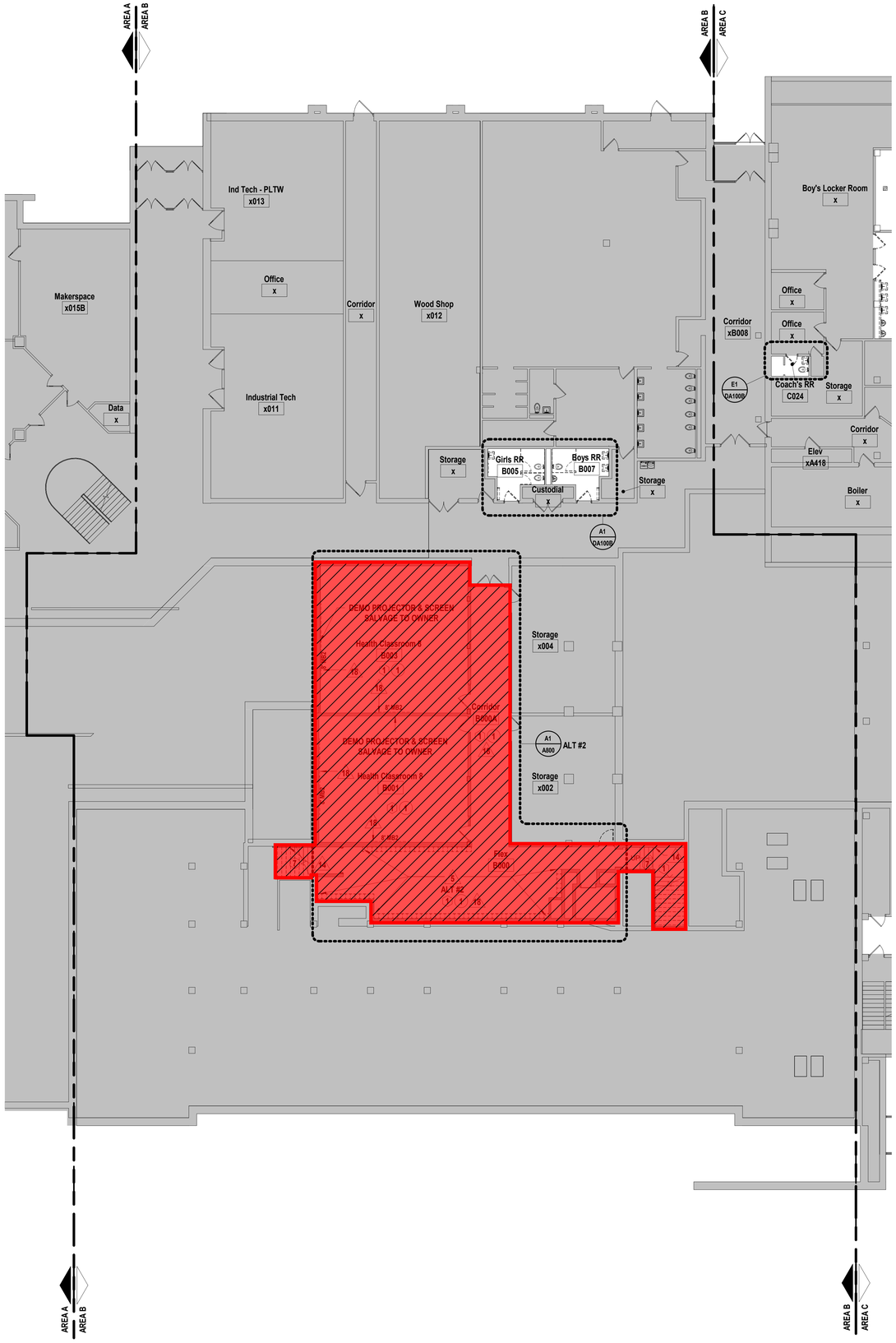
J1 Scale 1/8" = 1'-0" — Existing Photos - 1923 Building - Area B - Level 0



E1 Scale 1/4" = 1'-0" — Demolition Plan - Level 0 - C024 Coach's RR



A1 Scale 1/4" = 1'-0" — Demolition Plan - Level 0 - B005 Girls RR & B007 Boys RR



A5 Scale 3/32" = 1'-0" — Demolition Floor Plan - Level 0 - Area B

PROJECT NORTH TRUE NORTH

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= Phase 2 Scope of Work
(Not included in this Bid Package)

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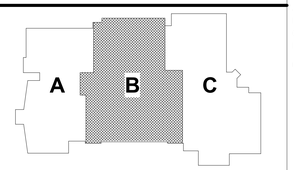

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REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
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DATE: 12.07.2023

DA100B

DEMOLITION FLOOR PLAN - AREA B - LEVEL 0

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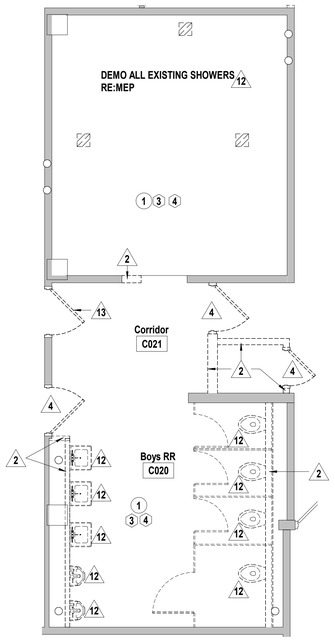
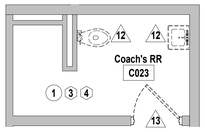
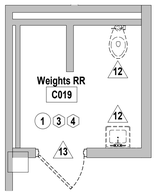
Please consider the environment before printing this.



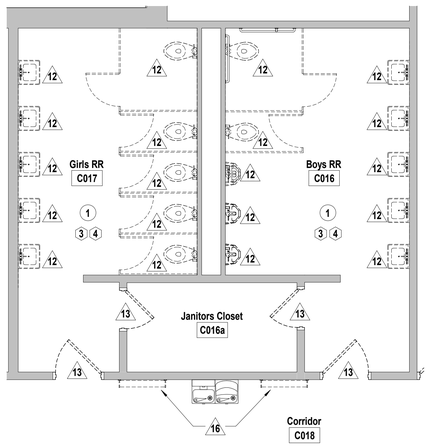
G1 | Scale 1/4" = 1'-0" | Demolition Plan - Level 0 - C020 Boys RR & C022 Girls RR



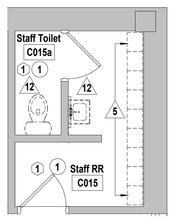
M5 | Scale 1/4" = 1'-0" | Demolition Plan - Level 0 - C023 Coach's RR



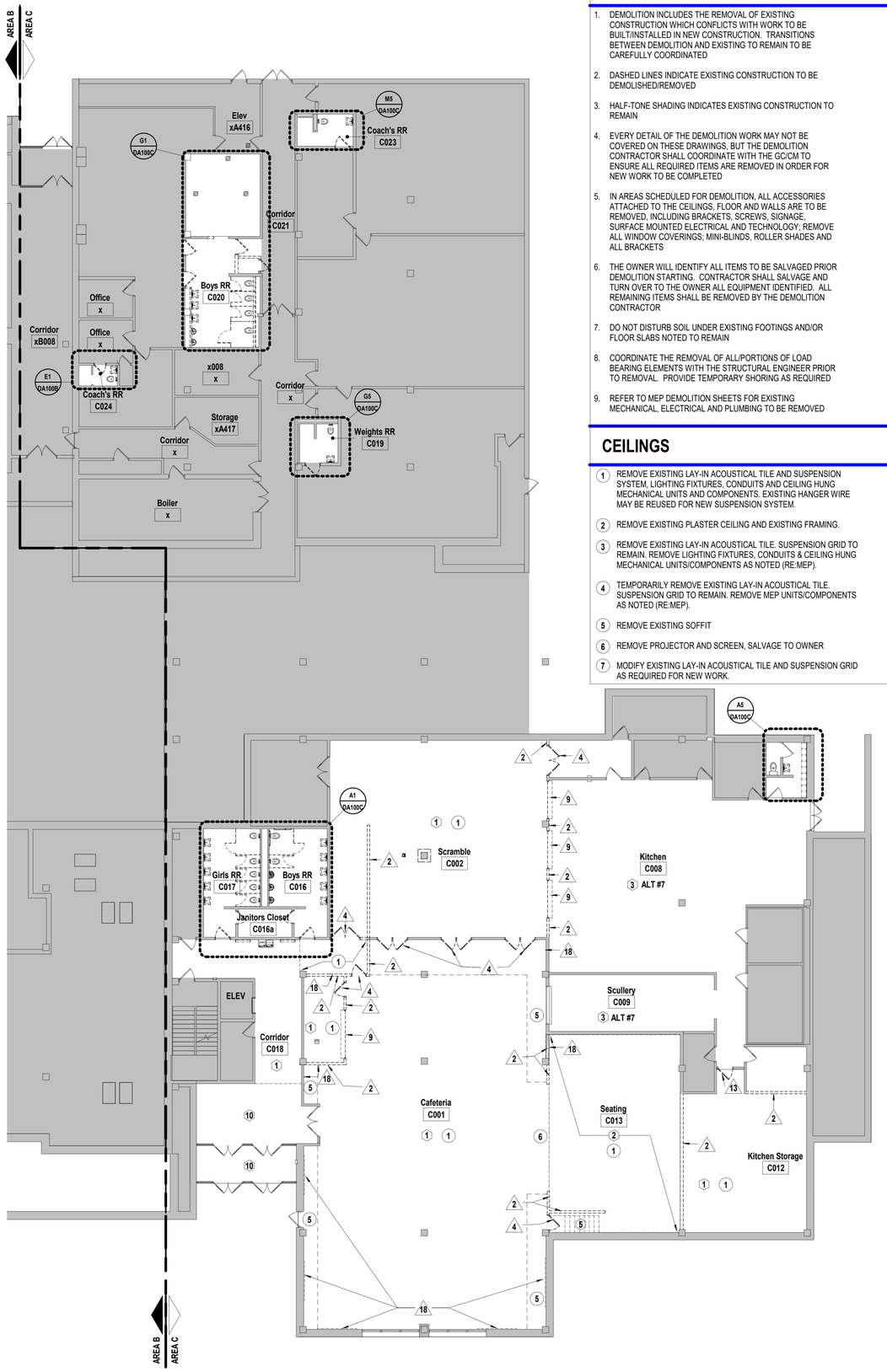
G5 | Scale 1/4" = 1'-0" | Demolition Plan - Level 0 - C019 Weights RR



A1 | Scale 1/4" = 1'-0" | Demolition Plan - Level 0 - C016 Boys RR & C017 Girls RR



A5 | Scale 1/4" = 1'-0" | Demolition Plan - Level 0 - C015 Staff RR



A8 | Scale 3/32" = 1'-0" | Demolition Floor Plan - Level 0 - Area C

PROJECT NORTH TRUE NORTH

GENERAL DEMOLITION NOTES

1. DEMOLITION INCLUDES THE REMOVAL OF EXISTING CONSTRUCTION WHICH CONFLICTS WITH WORK TO BE BUILT/INSTALLED IN NEW CONSTRUCTION. TRANSITIONS BETWEEN DEMOLITION AND EXISTING TO REMAIN TO BE CAREFULLY COORDINATED
2. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE DEMOLISHED/REMOVED
3. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN
4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION CONTRACTOR SHALL COORDINATE WITH THE GC/CM TO ENSURE ALL REQUIRED ITEMS ARE REMOVED IN ORDER FOR NEW WORK TO BE COMPLETED
5. IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CEILINGS, FLOOR AND WALLS ARE TO BE REMOVED, INCLUDING BRACKETS, SCREWS, SIGNAGE, SURFACE MOUNTED ELECTRICAL AND TECHNOLOGY; REMOVE ALL WINDOW COVERINGS; MINI-BLINDS, ROLLER SHADES AND ALL BRACKETS
6. THE OWNER WILL IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR DEMOLITION STARTING. CONTRACTOR SHALL SALVAGE AND TURN OVER TO THE OWNER ALL EQUIPMENT IDENTIFIED. ALL REMAINING ITEMS SHALL BE REMOVED BY THE DEMOLITION CONTRACTOR
7. DO NOT DISTURB SOIL UNDER EXISTING FOOTINGS AND/OR FLOOR SLABS NOTED TO REMAIN
8. COORDINATE THE REMOVAL OF ALL/PORTIONS OF LOAD BEARING ELEMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO REMOVAL. PROVIDE TEMPORARY SHORING AS REQUIRED
9. REFER TO MEP DEMOLITION SHEETS FOR EXISTING MECHANICAL, ELECTRICAL AND PLUMBING TO BE REMOVED

CEILINGS

1. REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION SYSTEM, LIGHTING FIXTURES, CONDUITS AND CEILING HUNG MECHANICAL UNITS AND COMPONENTS. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM.
2. REMOVE EXISTING PLASTER CEILING AND EXISTING FRAMING.
3. REMOVE EXISTING LAY-IN ACOUSTICAL TILE. SUSPENSION GRID TO REMAIN. REMOVE LIGHTING FIXTURES, CONDUITS & CEILING HUNG MECHANICAL UNITS/COMPONENTS AS NOTED (RE:MEP).
4. TEMPORARILY REMOVE EXISTING LAY-IN ACOUSTICAL TILE. SUSPENSION GRID TO REMAIN. REMOVE MEP UNITS/COMPONENTS AS NOTED (RE:MEP).
5. REMOVE EXISTING SOFFIT
6. REMOVE PROJECTOR AND SCREEN, SALVAGE TO OWNER
7. MODIFY EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION GRID AS REQUIRED FOR NEW WORK.

DEMOLITION NOTES

FLOORS & BASE

1. REMOVE EXISTING VINYL COMPOSITION TILE (VCT), RESILIENT FLOOR PRODUCTS, OR CARPET AND BASE (INCLUDING ADHESIVE).
2. REMOVE EXISTING CONCRETE SLAB/RAMP AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS.
3. REMOVE EXISTING RESINOUS FLOOR & BASE
4. REMOVE EXISTING FLOOR DRAIN COVER. REF: MEP DRAWINGS FOR COORDINATION.
5. REMOVE EXISTING CAST IN PLACE CONCRETE STAIRS.
6. REMOVE PORTION OF EXSTING STAIR. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION.
7. REFINISH EXISTING METAL PAN AT STAIR TREADS. REFER TO EXISTING PHOTOS ON SHEET DA101B.
8. REMOVE PORTION OF EXISTING ELEVATED SLAB/LANDING TO COORDINATE WITH NEW CONSTRUCTION.
9. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS.
10. REMOVE EXISTING QUARRY/CERAMIC/ PORCELAIN TILE AND BASE (INCLUDING ADHESIVE).

WALLS

A. REMOVE EXISTING ALUMINUM OR HOLLOW METAL WINDOW SYSTEM. ROLLER SHADES/MINI BLINDS & ASSOCIATED BLOCKING AND BRACKETS
2. REMOVE ALL/PORTION OF EXISTING CMU/BRICK/GLAZED BLOCK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
3. REMOVE ALL/PORTION OF EXISTING METAL STUD AND GYPSUM BOARD OR PLASTER WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
4. REMOVE EXISTING ALUMINUM OR HOLLOW METAL FRAME, DOOR AND ALL RELATED HARDWARE.
5. REMOVE ALL EXISTING LOCKERS AND CONCRETE BASE. LEVEL SLAB AS REQUIRED FOR NEW WORK.
6. REMOVE GYPSUM BOARD FROM EXISTING STUD WALL. CLEAN AND PREPARE FOR NEW GYPSUM BOARD, EXISTING STUDS TO REMAIN.
7. REMOVE EXISTING CASEWORK (COUNTERTOP, BASE CABINETS AND UPPER CABINETS) AND ALL PLUMBING FIXTURES. REFER TO MEP SHEETS FOR EXISTING PLUMBING AND ELECTRICAL CONDUIT TO BE CAPPED
8. REMOVE EXISTING STUD FRAMED PLATFORM.
9. REMOVE EXISTING OVERHEAD/COILING DOOR AND ALL RELATED APPARATUS.
10. REMOVE EXISTING GUARDRAILS AND HANDRAILS FROM EXISTING STAIRS, LANDING, AND MEZZANINE.
11. REMOVE PORTION OF EXISTING CMU/ GLAZED BLOCK WALL AS REQUIRED FOR NEW PLUMBING.
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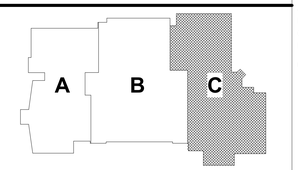
15. REMOVE EXISTING DISPLAY CASE. SALVAGE TO OWNER.
16. CAREFULLY REMOVE AND STORE EXISTING SHELVES FOR REINSTALLATION.
17. REMOVE EXISTING FIRE EXTINGUISHER AND ALL RELATED APPARATUS.
18. CAREFULLY REMOVE EXISTING MARKERBOARDS, CHALKBOARDS, TACKBOARDS/TACKWALL, CLASSROOM PROJECTORS + SCREENS, AND CUSTODIAL STORAGE EQUIPMENT, INCLUDING ADHESIVE AND BRACKETS. SALVAGE TO OWNER.
19. REMOVE ALL/PORTION OF EXISTING EXTERIOR BRICK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
20. REMOVE ALL/PORTION OF EXISTING BRICK PILASTER. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
21. CAREFULLY REMOVE EXISTING EMERGENCY EQUIPMENT/EMERGENCY EVACUATION EQUIPMENT/FIRST AID KIT. SALAVGE FOR REINSTALLATION.

KEY PLAN



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Olathe, KS 66061
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913.345.0617 fax

mha Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

DA100C

DEMOLITION FLOOR PLAN - AREA C - LEVEL 0

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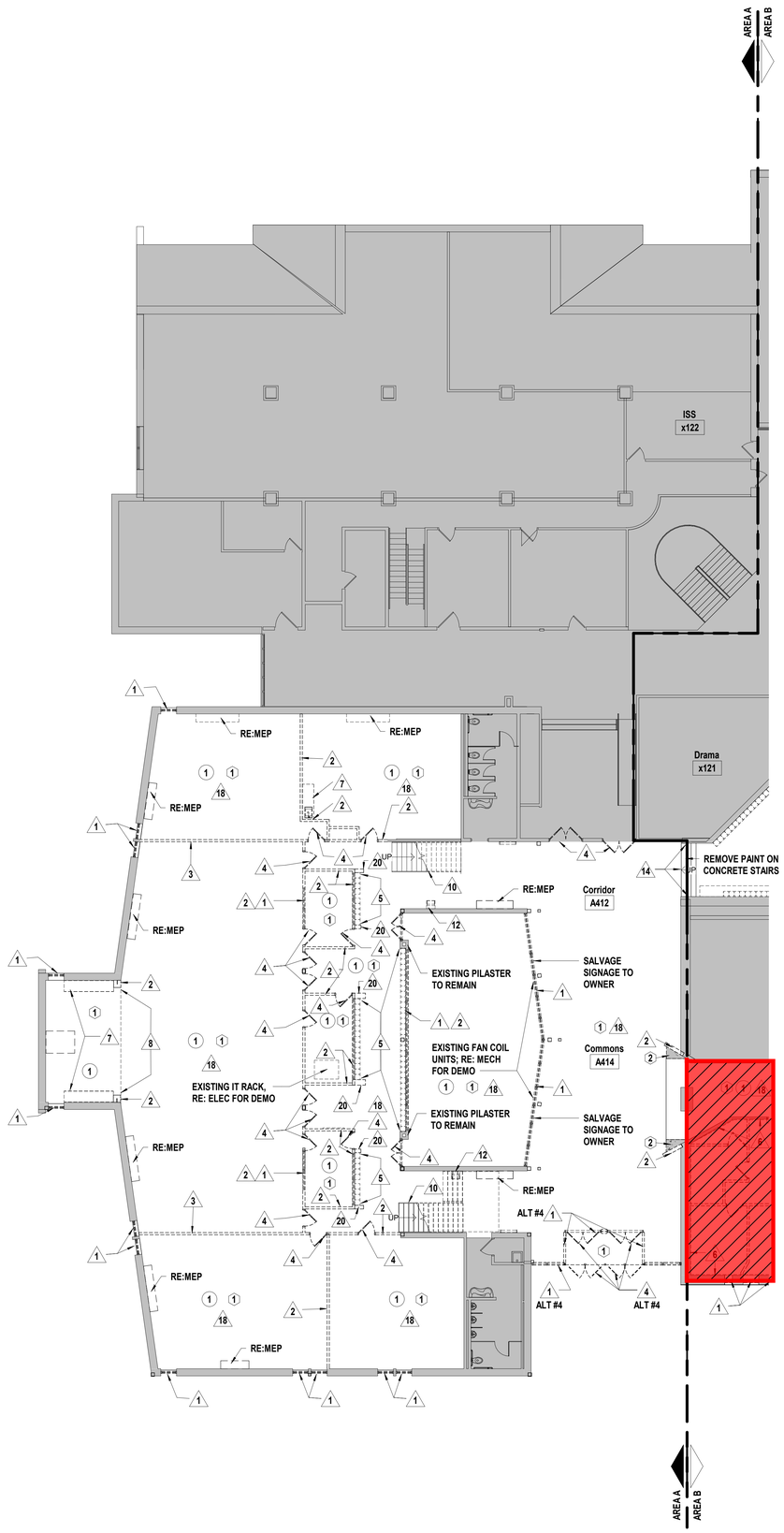

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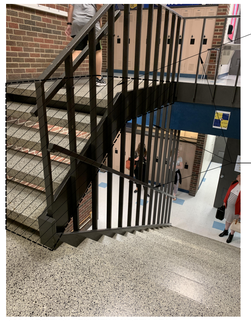
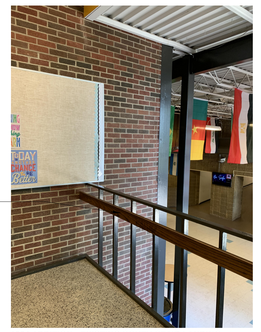
= Phase 2 Scope of Work
(Not included in this Bid Package)



1964 ADDITION - EXISITNG NORTH STAIR



1964 ADDITION - EXISTING SOUTH STAIR



1964 ADDITION - EXISTING SOUTH STAIR LANDING



1964 ADDITION - EXISTING EXTERIOR STOREFRONT @ COMMONS

DEMOLITION NOTES

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A4. REMOVE EXISTING ALUMINUM OR HOLLOW METAL FRAME, DOOR AND ALL RELATED HARDWARE.

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A9. REMOVE EXISTING OVERHEAD/COILING DOOR AND ALL RELATED APPARATUS.

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A13. REMOVE EXISTING DOOR FROM FRAME & ALL RELATED HARDWARE. EXISTING FRAME TO REMAIN.

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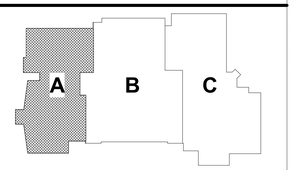
A21. CAREFULLY REMOVE EXISTING EMERGENCY EQUIPMENT/EMERGENCY EVACUATION EQUIPMENT/FIRST AID KIT. SALAVGE FOR REINSTALLATION.

KEY PLAN



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Bob D. Campbell
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Mech/Elect/Plumb Engineer
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25618 W 103rd St
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913.345.0617 fax

mha Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
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DA101A

DEMOLITION FLOOR PLAN - AREA A - LEVEL 1

A1	Scale	Demolition Floor Plan - Level 1 - Area A
	3/32" = 1'-0"	

PROJECT NORTH TRUE NORTH

A11	Scale	Existing Photos - 1964 Building - Area A - Level 1
	1/8" = 1'-0"	

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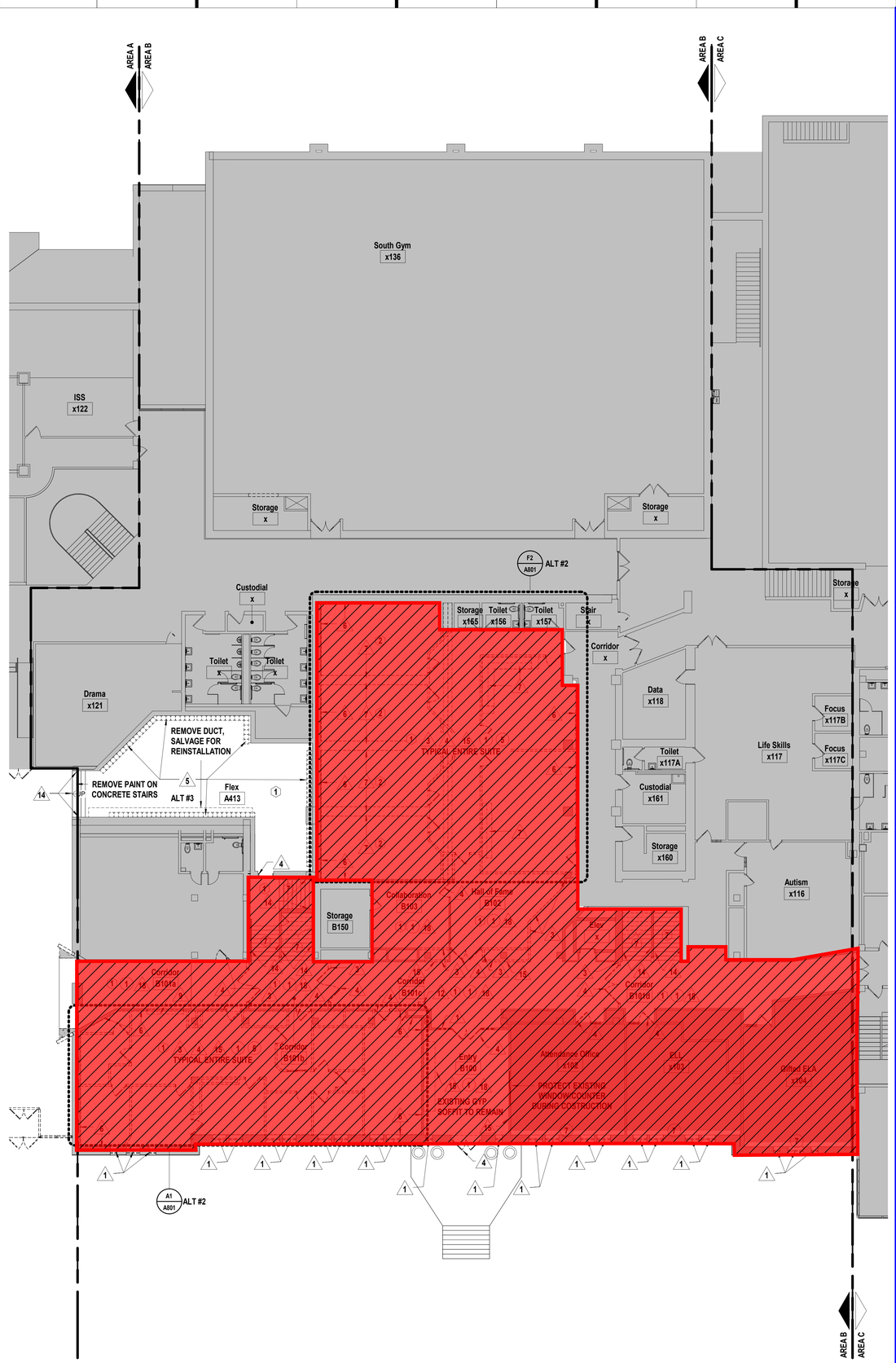



1964 ADDITION - LEVEL 1 - A413 FLEX



= Phase 2 Scope of Work
(Not included in this Bid Package)

GENERAL DEMOLITION NOTES

1. DEMOLITION INCLUDES THE REMOVAL OF EXISTING CONSTRUCTION WHICH CONFLICTS WITH WORK TO BE BUILT/INSTALLED IN NEW CONSTRUCTION. TRANSITIONS BETWEEN DEMOLITION AND EXISTING TO REMAIN TO BE CAREFULLY COORDINATED
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5. REMOVE EXISTING SOFFIT
6. REMOVE PROJECTOR AND SCREEN, SALVAGE TO OWNER
7. MODIFY EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION GRID AS REQUIRED FOR NEW WORK.

DEMOLITION NOTES

FLOORS & BASE

1. REMOVE EXISTING VINYL COMPOSITION TILE (VCT), RESILIENT FLOOR PRODUCTS, OR CARPET AND BASE (INCLUDING ADHESIVE).
2. REMOVE EXISTING CONCRETE SLAB/RAMP AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS.
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A1. REMOVE EXISTING ALUMINUM OR HOLLOW METAL WINDOW SYSTEM. ROLLER SHADES/MINI BLINDS & ASSOCIATED BLOCKING AND BRACKETS

A2. REMOVE ALL/PORTION OF EXISTING CMU/BRICK/GLAZED BLOCK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.

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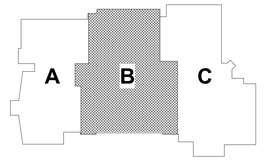
KEY PLAN



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Olathe, KS 66061
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913.345.0617 fax

mha Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

DA101B

A1 | Scale 3/32" = 1'-0" | Demolition Floor Plan - Level 1 - Area B

PROJECT NORTH / TRUE NORTH

A11 | Scale 1/8" = 1'-0" | Existing Photos - 1923 Building - Area B - Level 1
FOR REFERENCE ONLY; PHOTOS OF EXISTING CONDITIONS PROVIDED FOR CLARITY OF DEMO SCOPE

DEMOLITION FLOOR PLAN - AREA B - LEVEL 1

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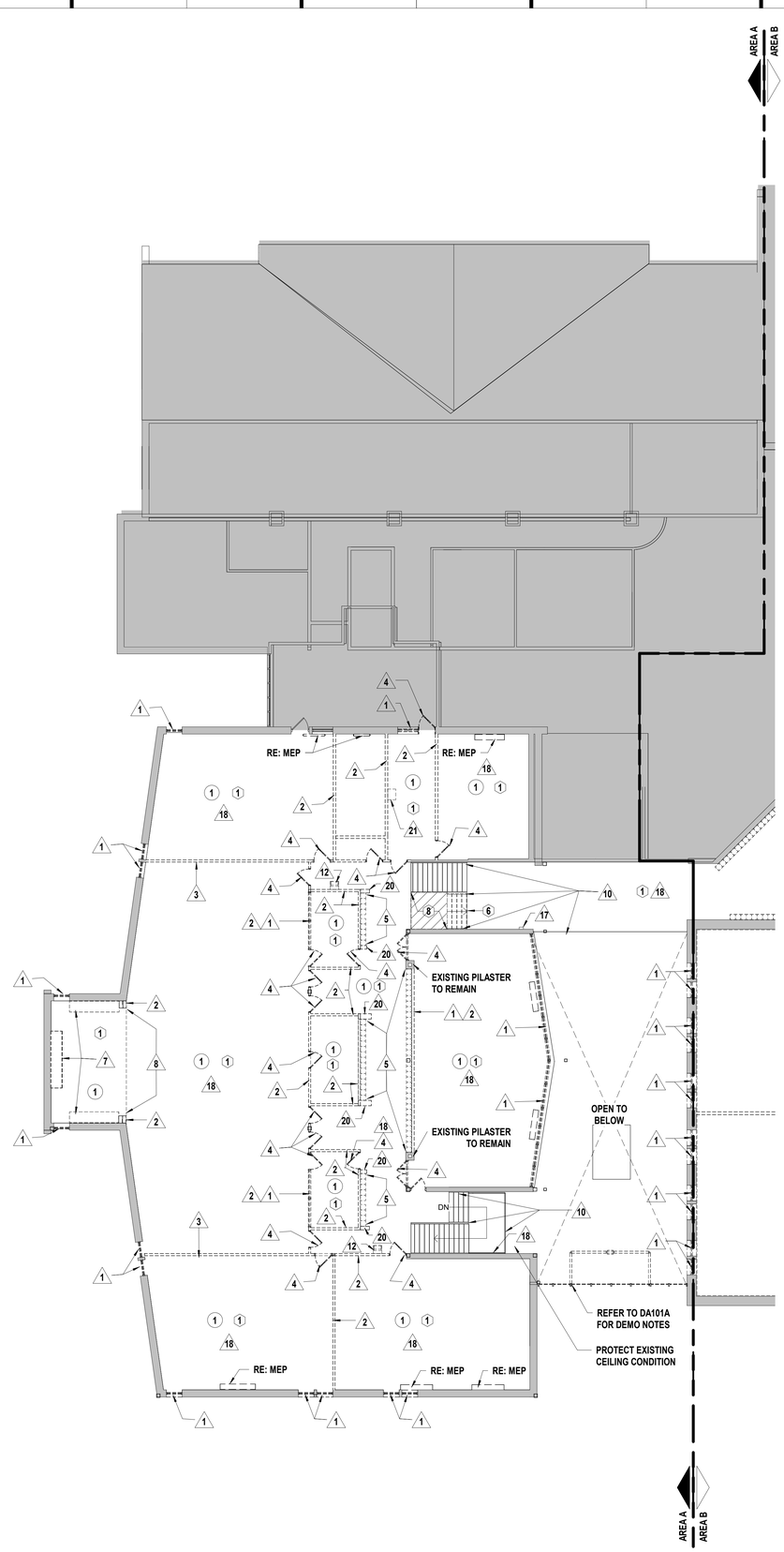
Please consider the environment before printing this.

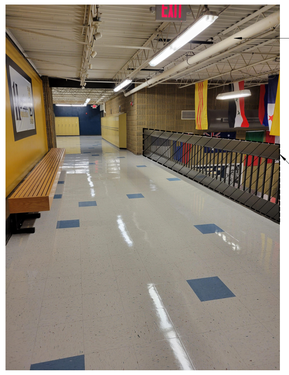




1964 ADDITION - COMMONS ENTRY FROM AREA B



1964 ADDITION - COMMONS ENTRY FROM AREA B



1964 ADDITION - EXISTING MEZZANINE



1964 ADDITION - EXISTING SOUTH STAIR

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4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION CONTRACTOR SHALL COORDINATE WITH THE GC/CM TO ENSURE ALL REQUIRED ITEMS ARE REMOVED IN ORDER FOR NEW WORK TO BE COMPLETED
5. IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CEILINGS, FLOOR AND WALLS ARE TO BE REMOVED, INCLUDING BRACKETS, SCREWS, SIGNAGE, SURFACE MOUNTED ELECTRICAL AND TECHNOLOGY; REMOVE ALL WINDOW COVERINGS; MINI-BLINDS, ROLLER SHADES AND ALL BRACKETS
6. THE OWNER WILL IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR DEMOLITION STARTING. CONTRACTOR SHALL SALVAGE AND TURN OVER TO THE OWNER ALL EQUIPMENT IDENTIFIED. ALL REMAINING ITEMS SHALL BE REMOVED BY THE DEMOLITION CONTRACTOR
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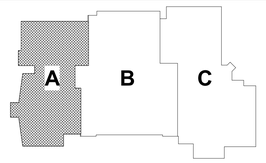
KEY PLAN



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Smith & Boucher Engineers
Mech/Elect/Plumb Engineer
State Certificate of Authority #EGC-0001787
25618 W 103rd St
Olathe, KS 66061
913.345.2127 phone
913.345.0617 fax

mha Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

DA102A

A1 Scale 3/32" = 1'-0" — Demolition Floor Plan - Level 2 - Area A

PROJECT NORTH TRUE NORTH

A10 Scale 1/8" = 1'-0" — Existing Photos - 1964 Building - Area A - Level 2

DEMOLITION FLOOR PLAN - AREA A - LEVEL 2

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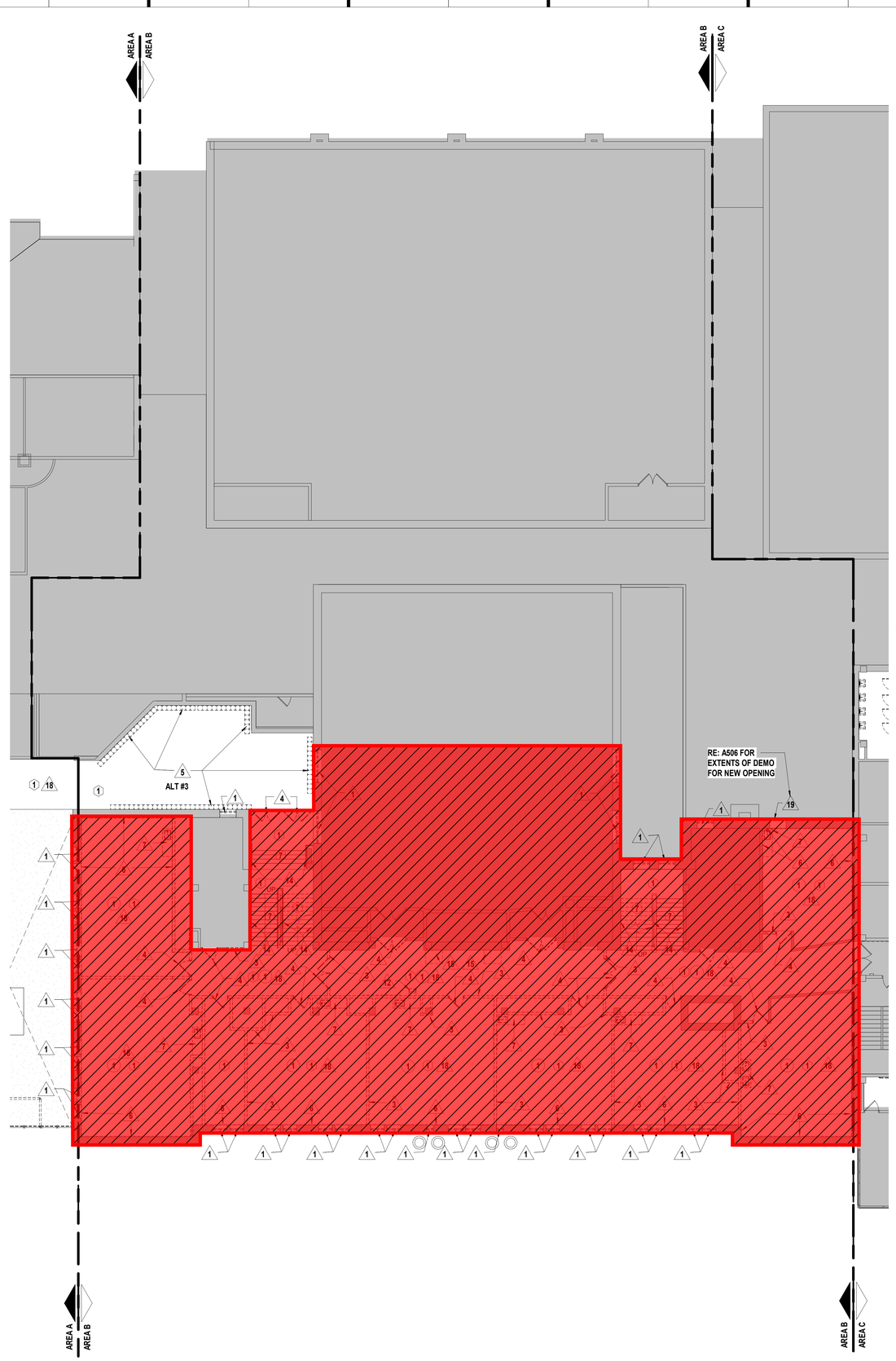
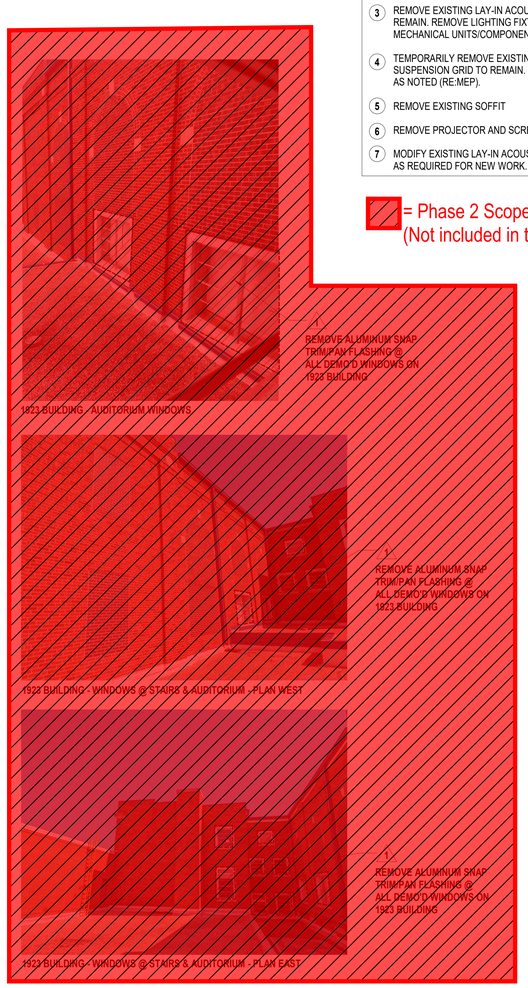
Please consider the environment before printing this.





= Phase 2 Scope of Work
(Not included in this Bid Package)

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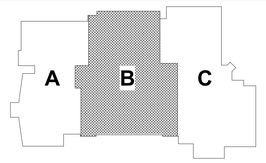
KEY PLAN



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100% CONSTRUCTION DOCUMENTS

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600 W. Kansas Street
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REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT

DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

DA102B

A1 Scale 3/32" = 1'-0" — Demolition Floor Plan - Level 2 - Area B

PROJECT NORTH TRUE NORTH

A11 Scale 1/8" = 1'-0" — Existing Photos - 1923 Building - Area B -Level 2

DEMOLITION FLOOR PLAN - AREA B - LEVEL 2

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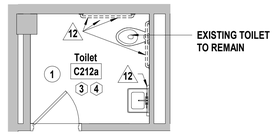
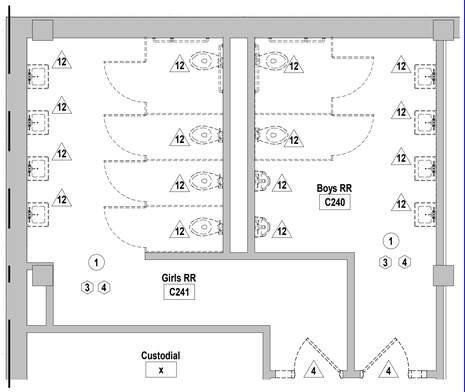


F1 | Scale 1/4" = 1'-0" | Demolition Plan - Level 2 - C212a Toilet



A1 | Scale 1/4" = 1'-0" | Demolition Plan - Level 2 - C240 Boys RR & C241 Girls RR



A5 | Scale 3/32" = 1'-0" | Demolition Floor Plan - Level 2 - Area C

PROJECT NORTH TRUE NORTH

GENERAL DEMOLITION NOTES

1. DEMOLITION INCLUDES THE REMOVAL OF EXISTING CONSTRUCTION WHICH CONFLICTS WITH WORK TO BE BUILT/INSTALLED IN NEW CONSTRUCTION. TRANSITIONS BETWEEN DEMOLITION AND EXISTING TO REMAIN TO BE CAREFULLY COORDINATED
2. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE DEMOLISHED/REMOVED
3. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN
4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION CONTRACTOR SHALL COORDINATE WITH THE GC/CM TO ENSURE ALL REQUIRED ITEMS ARE REMOVED IN ORDER FOR NEW WORK TO BE COMPLETED
5. IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CEILINGS, FLOOR AND WALLS ARE TO BE REMOVED, INCLUDING BRACKETS, SCREWS, SIGNAGE, SURFACE MOUNTED ELECTRICAL AND TECHNOLOGY; REMOVE ALL WINDOW COVERINGS; MINI-BLINDS, ROLLER SHADES AND ALL BRACKETS
6. THE OWNER WILL IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR DEMOLITION STARTING. CONTRACTOR SHALL SALVAGE AND TURN OVER TO THE OWNER ALL EQUIPMENT IDENTIFIED. ALL REMAINING ITEMS SHALL BE REMOVED BY THE DEMOLITION CONTRACTOR
7. DO NOT DISTURB SOIL UNDER EXISTING FOOTINGS AND/OR FLOOR SLABS NOTED TO REMAIN
8. COORDINATE THE REMOVAL OF ALL/PORTIONS OF LOAD BEARING ELEMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO REMOVAL. PROVIDE TEMPORARY SHORING AS REQUIRED
9. REFER TO MEP DEMOLITION SHEETS FOR EXISTING MECHANICAL, ELECTRICAL AND PLUMBING TO BE REMOVED

CEILINGS

1. REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION SYSTEM, LIGHTING FIXTURES, CONDUITS AND CEILING HUNG MECHANICAL UNITS AND COMPONENTS. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM.
2. REMOVE EXISTING PLASTER CEILING AND EXISTING FRAMING.
3. REMOVE EXISTING LAY-IN ACOUSTICAL TILE. SUSPENSION GRID TO REMAIN. REMOVE LIGHTING FIXTURES, CONDUITS & CEILING HUNG MECHANICAL UNITS/COMPONENTS AS NOTED (RE:MEP).
4. TEMPORARILY REMOVE EXISTING LAY-IN ACOUSTICAL TILE. SUSPENSION GRID TO REMAIN. REMOVE MEP UNITS/COMPONENTS AS NOTED (RE:MEP).
5. REMOVE EXISTING SOFFIT
6. REMOVE PROJECTOR AND SCREEN, SALVAGE TO OWNER
7. MODIFY EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION GRID AS REQUIRED FOR NEW WORK.

= Phase 2 Scope of Work
(Not included in this Bid Package)

DEMOLITION NOTES

FLOORS & BASE

1. REMOVE EXISTING VINYL COMPOSITION TILE (VCT), RESILIENT FLOOR PRODUCTS, OR CARPET AND BASE (INCLUDING ADHESIVE).
2. REMOVE EXISTING CONCRETE SLAB/RAMP AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS.
3. REMOVE EXISTING RESINOUS FLOOR & BASE
4. REMOVE EXISTING FLOOR DRAIN COVER. REF: MEP DRAWINGS FOR COORDINATION.
5. REMOVE EXISTING CAST IN PLACE CONCRETE STAIRS.
6. REMOVE PORTION OF EXSTING STAIR. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION.
7. REFINISH EXISTING METAL PAN AT STAIR TREADS. REFER TO EXISTING PHOTOS ON SHEET DA101B.
8. REMOVE PORTION OF EXISTING ELEVATED SLAB/LANDING TO COORDINATE WITH NEW CONSTRUCTION.
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WALLS

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2. REMOVE ALL/PORTION OF EXISTING CMU/BRICK/GLAZED BLOCK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
3. REMOVE ALL/PORTION OF EXISTING METAL STUD AND GYPSUM BOARD OR PLASTER WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
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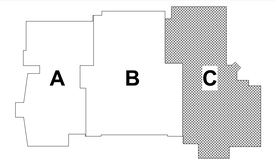

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ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

DA102C

DEMOLITION FLOOR PLAN - AREA C - LEVEL 2

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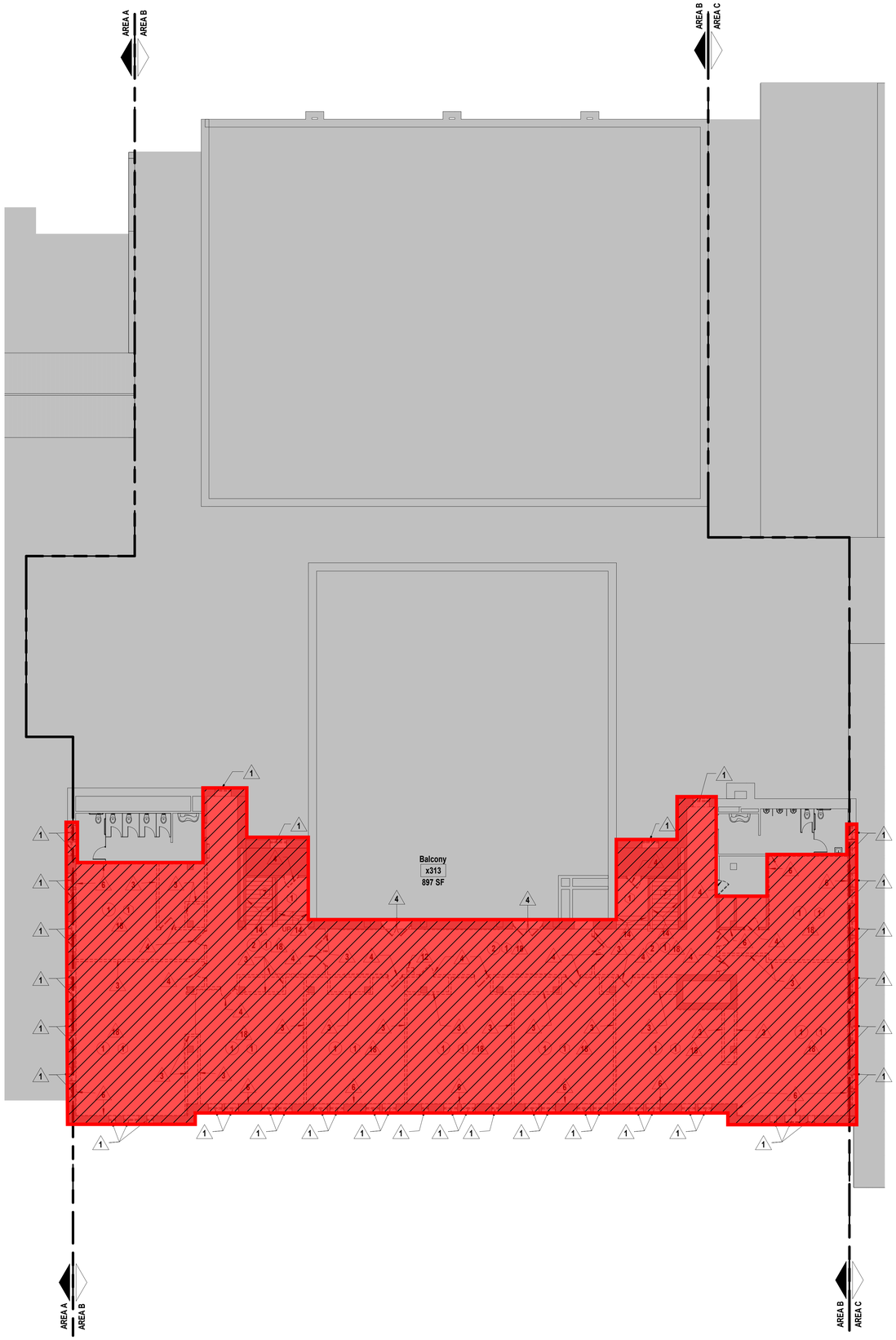

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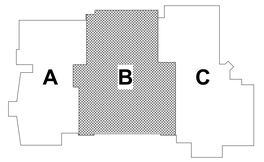

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

DA103B

A1 | Scale 3/32" = 1'-0" | Demolition Floor Plan - Level 3 - Area B

PROJECT NORTH TRUE NORTH

DEMOLITION FLOOR PLAN - AREA A - LEVEL 3

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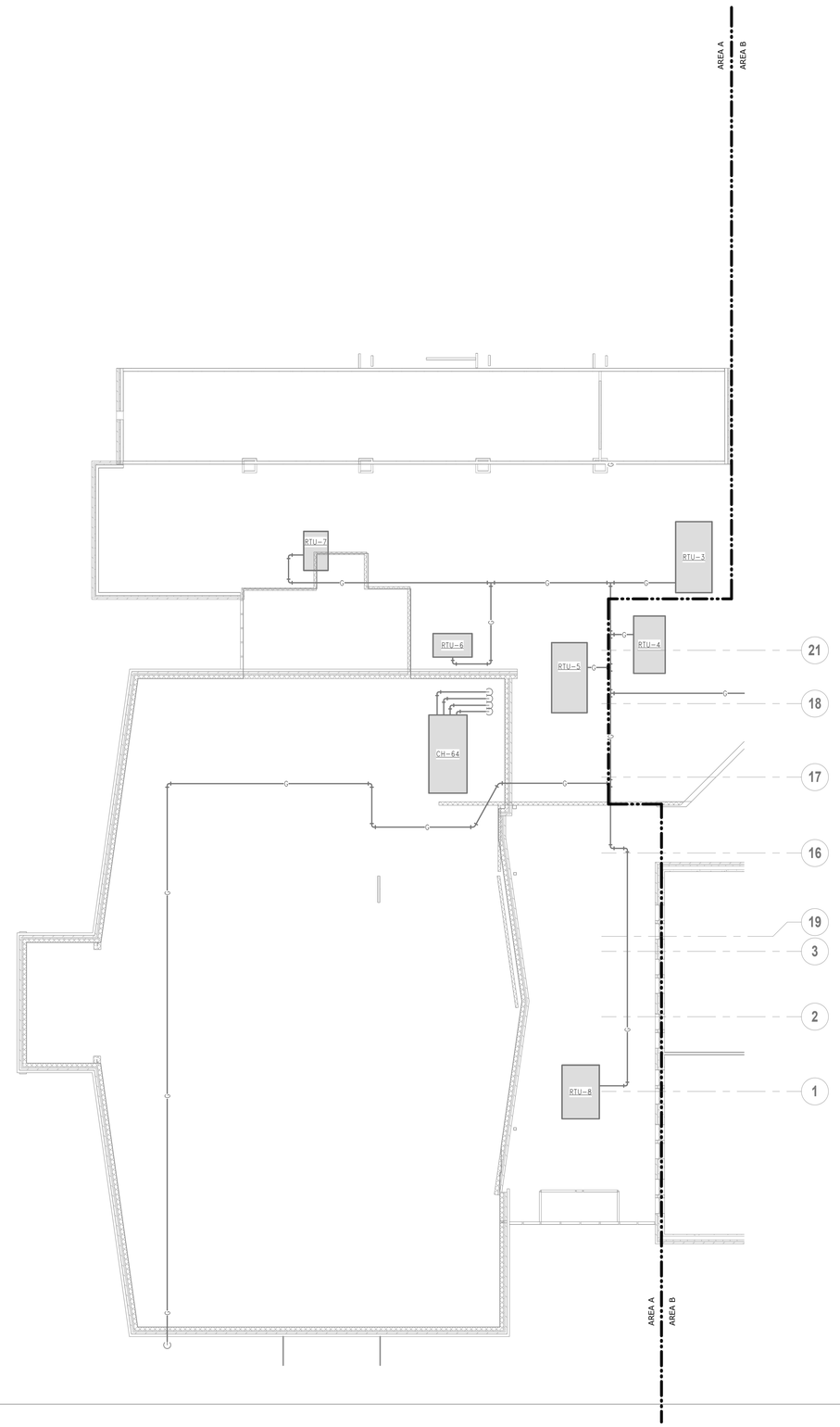

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION, AND ARE NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE NEW WORK INDICATED.
2. PATCH ROOFS, WALLS, AND CEILINGS WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE.
3. DISCONNECT AND REMOVE ALL PIPING, WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED. PROVIDE FOR THE CONTINUITY OF ALL REMAINING SERVICES, SYSTEMS, AND CIRCUITS.
4. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS. WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING, AND PIPING BEYOND THE FLOOR LINE OR WALL LINE TO FACILITATE RESTORATION OF FINISH.
5. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OR CIRCUITS WHICH ARE TO REMAIN IN USE, FURNISH AND INSTALL ALL REQUIRED WIRE, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
6. MAINTAIN CONTINUITY OF EXISTING SERVICES DURING CONSTRUCTION ACTIVITIES FOR ALL SPACES REMAINING IN USE BY THE OWNER.

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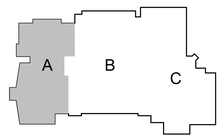
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

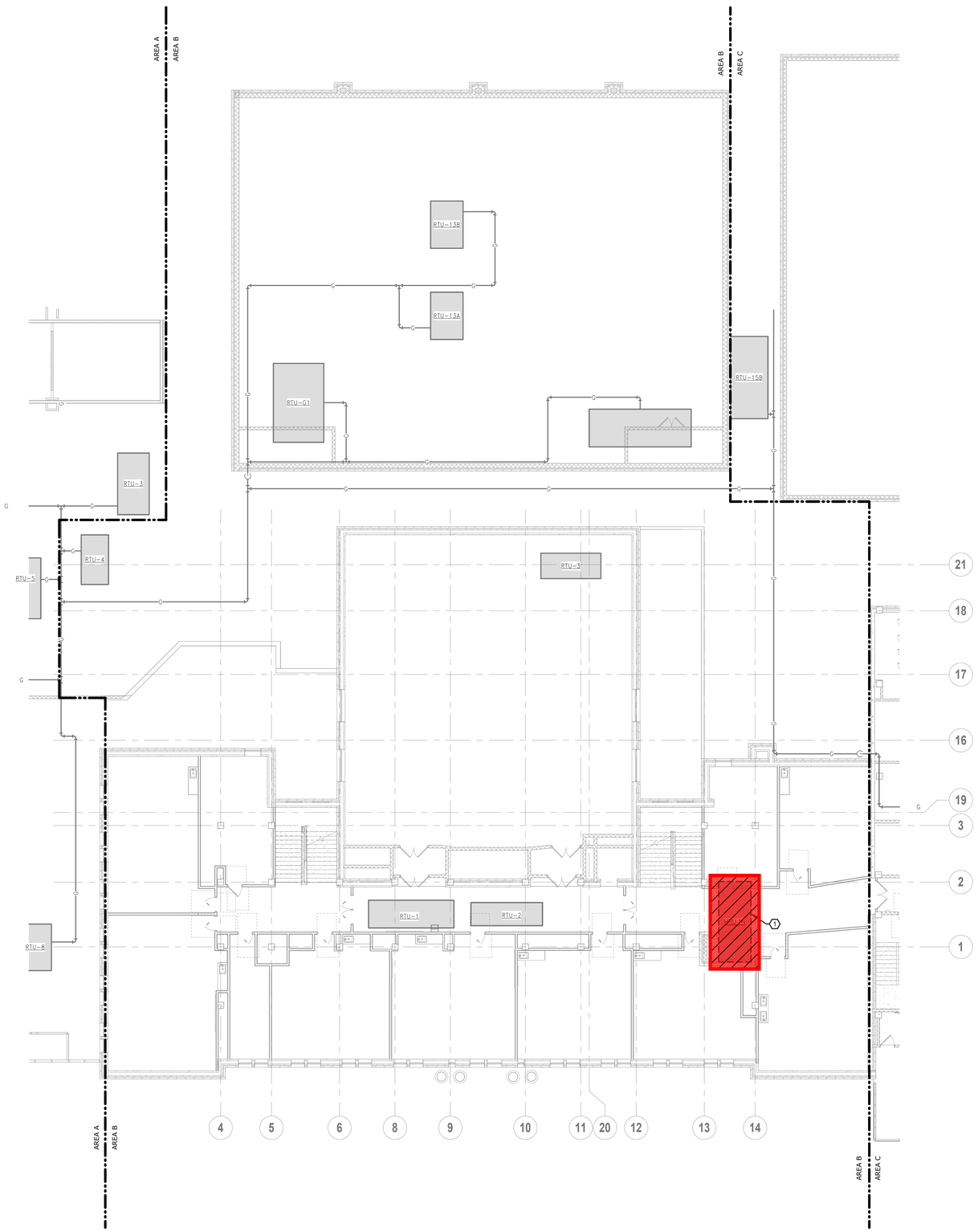
DME202A$_{A}$

A1 | Scale 3/32" = 1'-0" | DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

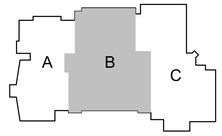
1. REFER TO GENERAL DEMOLITION NOTES ON DME202A.

PLAN DEMOLITION NOTES:

1 DISCONNECT AND REMOVE EXISTING ENERGY RECOVERY UNIT AND ALL ASSOCIATED CONTROLS, CONTROL WIRING, FIRE ALARM WIRING, ELECTRICAL DISCONNECT AND CONDUIT, CONDENSING DRAIN PIPING, CHILLED WATER AND HEATING HOT WATER PIPING AS REQUIRED TO REPLACE EXISTING RTU.

= Phase 2 Scope of Work
(Not included in this Bid Package)

KEY PLAN



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project number 2314708

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Heritage Middle School Renovations
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Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER A-2015006871
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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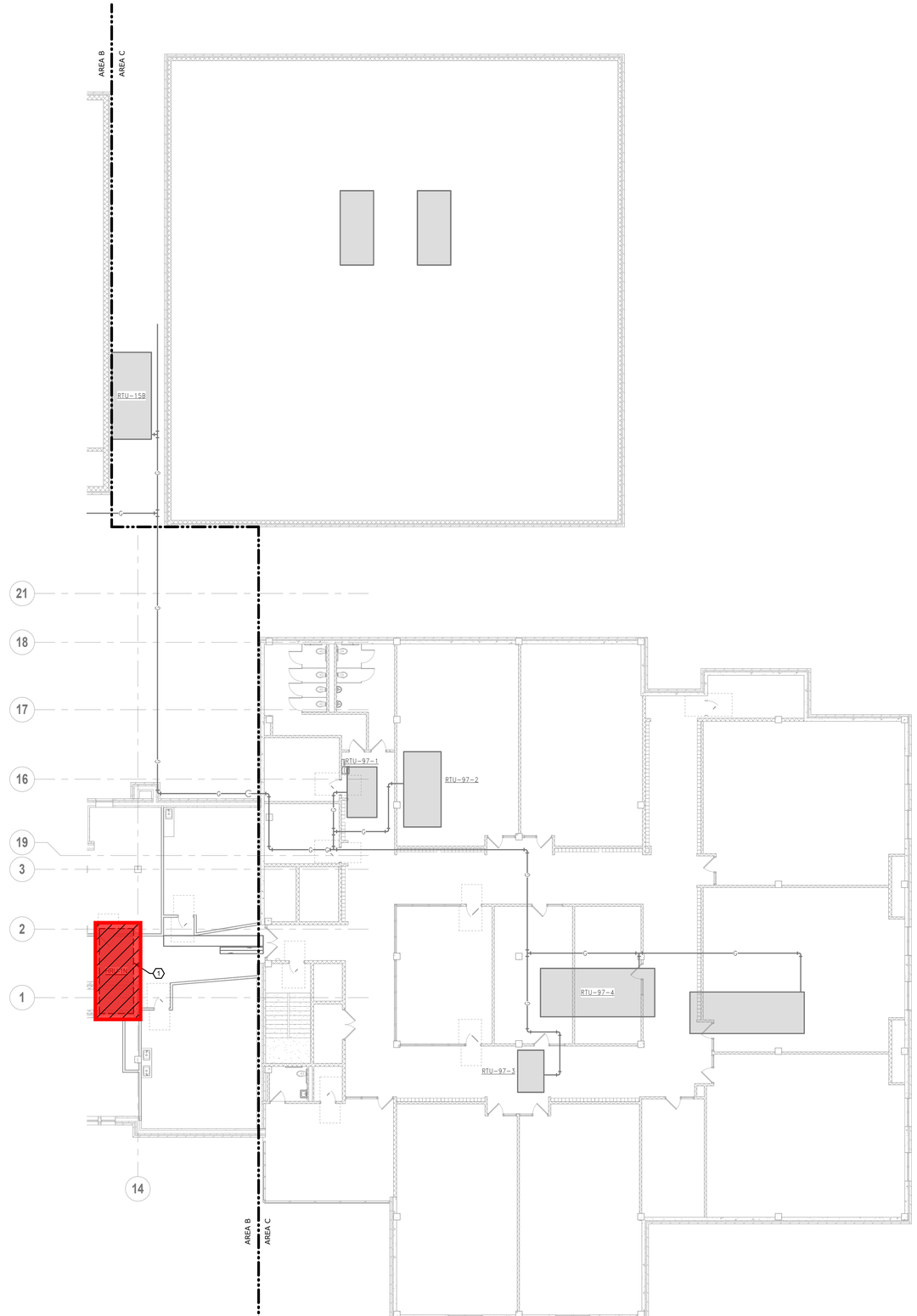
DME202B A

A1 | Scale 3/32" = 1'-0" | DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DME202A.

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REVISIONS:

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project number 2314708

STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
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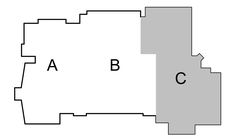
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

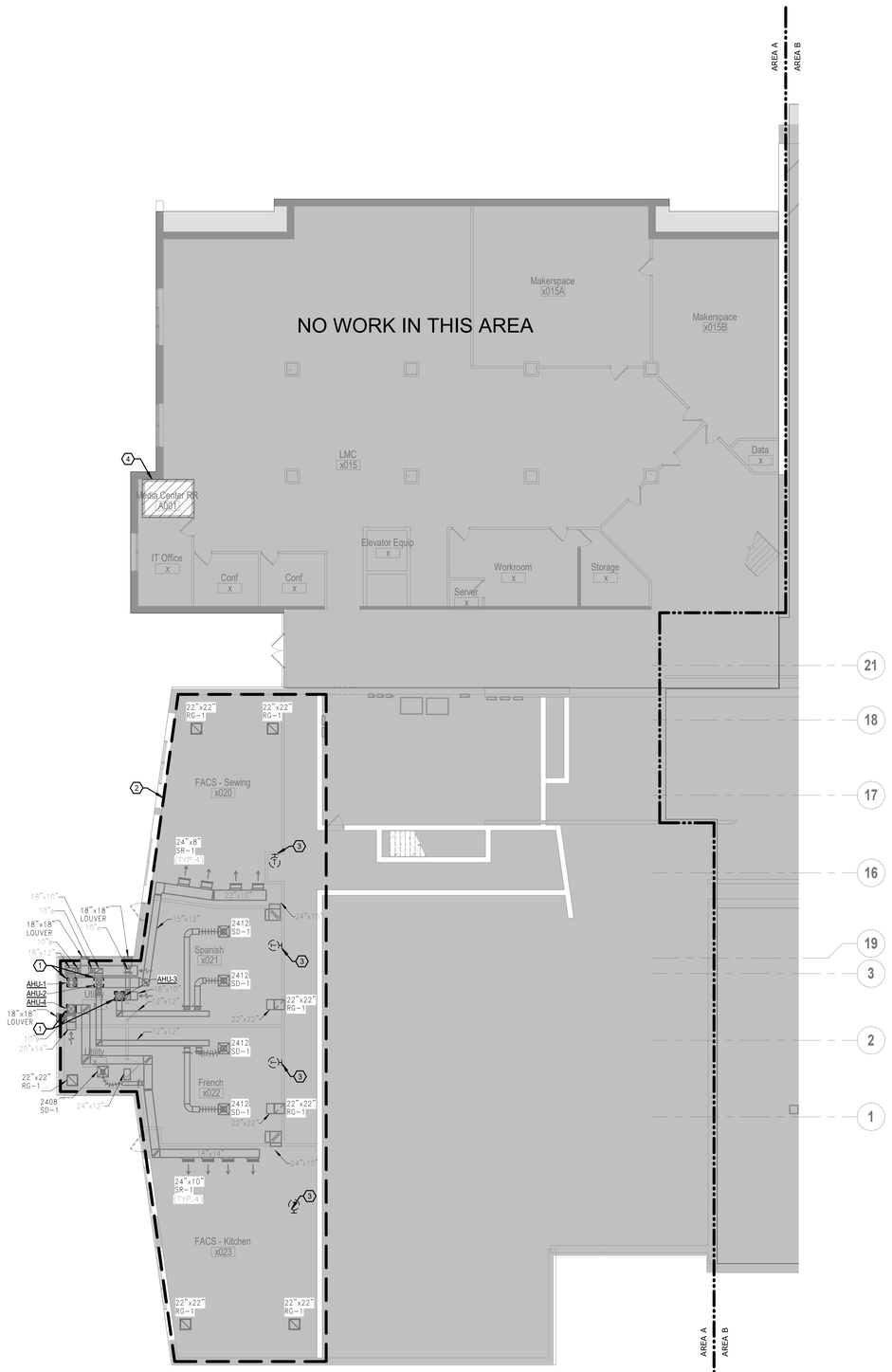
DME202C A

A1 | Scale 3/32" = 1'-0" | DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. UNLESS OTHERWISE NOTED, SERVICES AND EQUIPMENT SHOWN WITH BOLD DASHED LINES ARE TO BE DEMOLISHED. SERVICES AND EQUIPMENT SHOWN WITH SOLID HALF TONE LINE WEIGHT ARE TO REMAIN IN PLACE.

   EXISTING ————————————
   DEMO – – – – – – – – – – – – – – –

2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSIDERED "AS BUILT" CONDITIONS. THE INFORMATION SHOWN IS TO ESTABLISH THE EXTENT OF THE SCOPE OF WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDISTIONS AND THE EXTENT OF THE WORK INDICATED.
3. FLOOR WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE.
4. DISCONNECT AND REMOVE ALL DUCTWORK, PIPING, WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED.
5. WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING, AND PIPING BEHIND THE FLOOR LINE OR WALL LINE TO FACILITATE THE RESTORATION OF FINISH.
6. PROVIDE FOR THE CONTINUITY OF AL REMAINING SERVICES, SYSTEMS, AND CIRCUITS. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING AHU. FIELD VERIFY EXACT LOCATION.
2. EXISTING AIR DISTRIBUTION SYSTEM TO REMAIN WITHIN DASHED LINE.
3. DISCONNECT AND REMOVE EXISTING THERMOSTAT.
4. DISCONNECT AND REMOVE EXISTING DIFFUSER AND GRILLES.

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100% CONSTRUCTION DOCUMENTS

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Liberty Public Schools
600 W. Kansas Street
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REVISIONS:

#	Description	Date

smith & boucher engineers
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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015008674
ENGINEER
12/7/23

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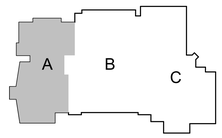
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DM100A

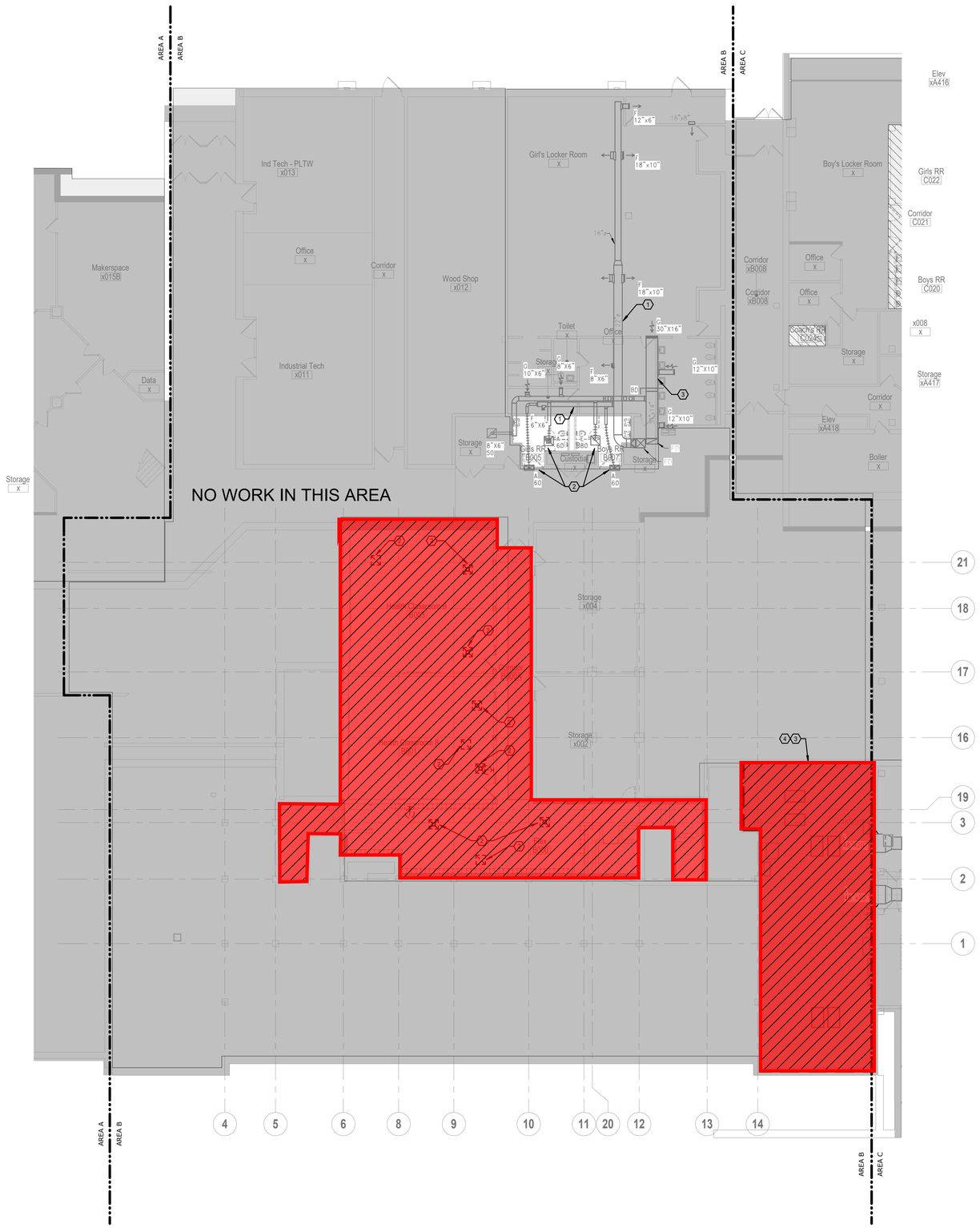
A1 Scale 3/32" = 1'-0"

DEMOLITION HVAC PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PLAN - LEVEL 0 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. EXISTING DUCTWORK TO REMAIN.
2. DISCONNECT AND REMOVE EXISTING DIFFUSER/GRILLE.
3. EXISTING BOILER SYSTEM, CHILLED WATER SYSTEM PIPING AND EQUIPMENT TO REMAIN. FIELD VERIFY EXACT LOCATION.
4. PROVIDE ALTERNATE PRICING TO REPLACE EXISTING BOILER AND CHILLER AND ALL ASSOCIATED PARTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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REVISIONS:

#	Description	Date

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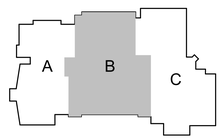
KEY PLAN



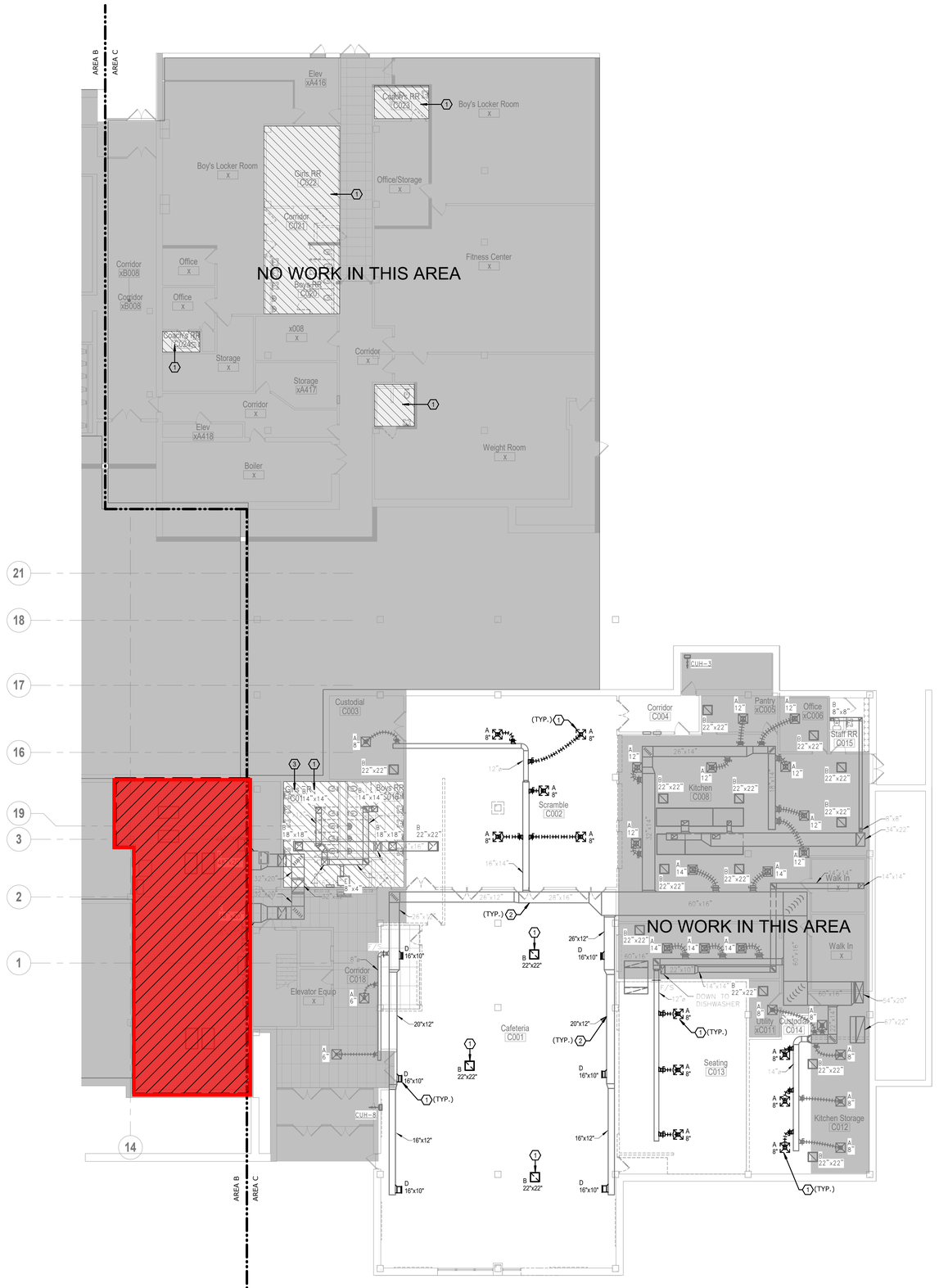
DM100B

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PLAN - LEVEL 0 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING DIFFUSERS AND GRILLES.
2. EXISTING DUCTWORK AND ASSOCIATED HARDWARE TO REMAIN.
3. EXISTING EXHAUST SYSTEM TO REMAIN.

= Phase 2 Scope of Work
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REVISIONS:

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STATE OF MISSOURI
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NUMBER PE-2015006871
PROFESSIONAL ENGINEER
12/7/23

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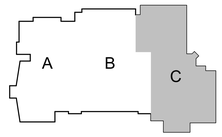
KEY PLAN



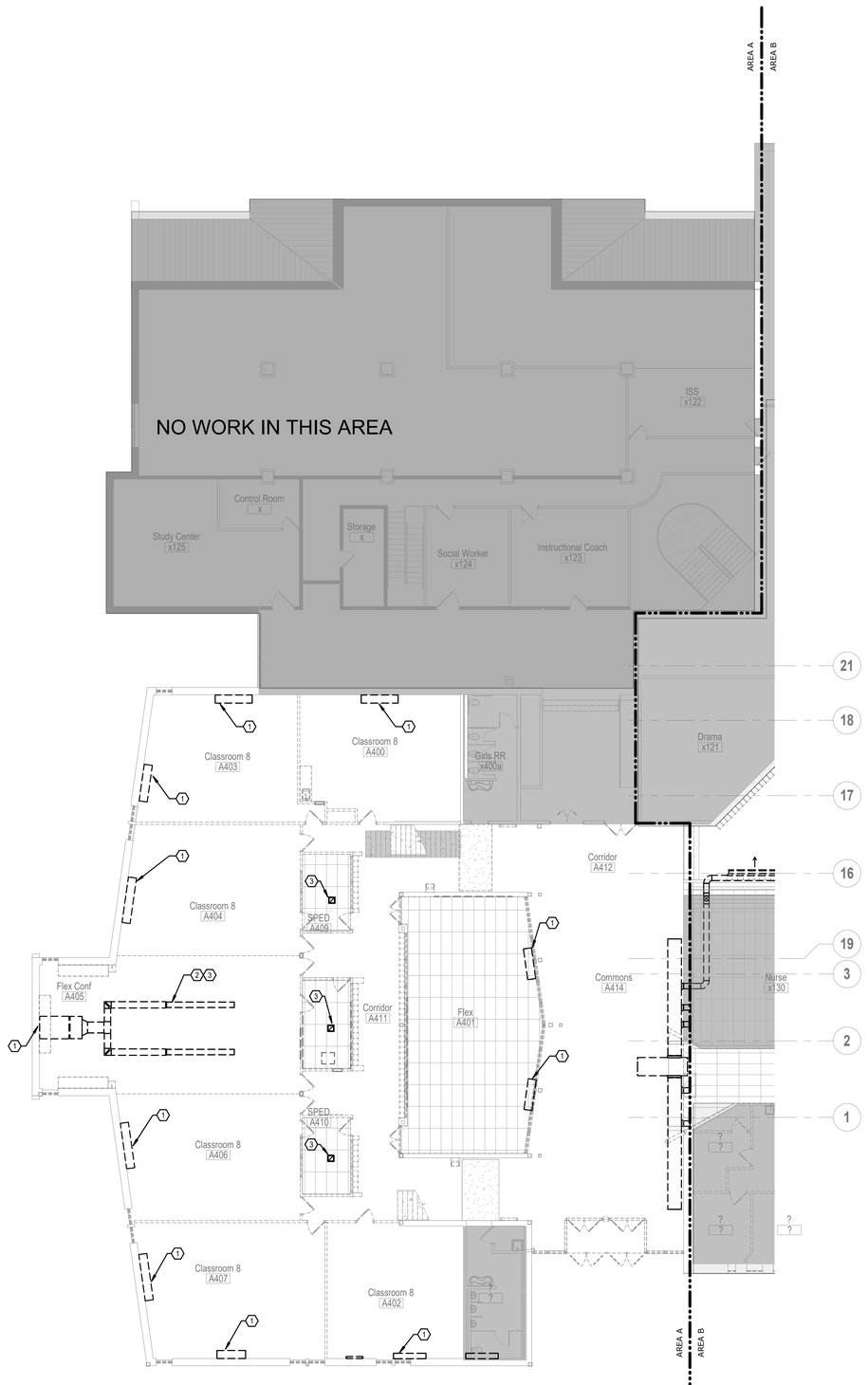
DM100C

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PLAN - LEVEL 0 - AREA C

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ITS ASSOCIATED THERMOSTAT. FIELD VERIFY EXACT LOCATION,
2. DISCONNECT AND REMOVE EXISTING DUCTWORK.
3. DISCONNECT AND REMOVE EXISTING DIFFUSER/GRILLE.

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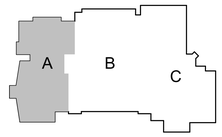
KEY PLAN



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DM101A

DEMOLITION HVAC PLAN - LEVEL 1 - AREA A

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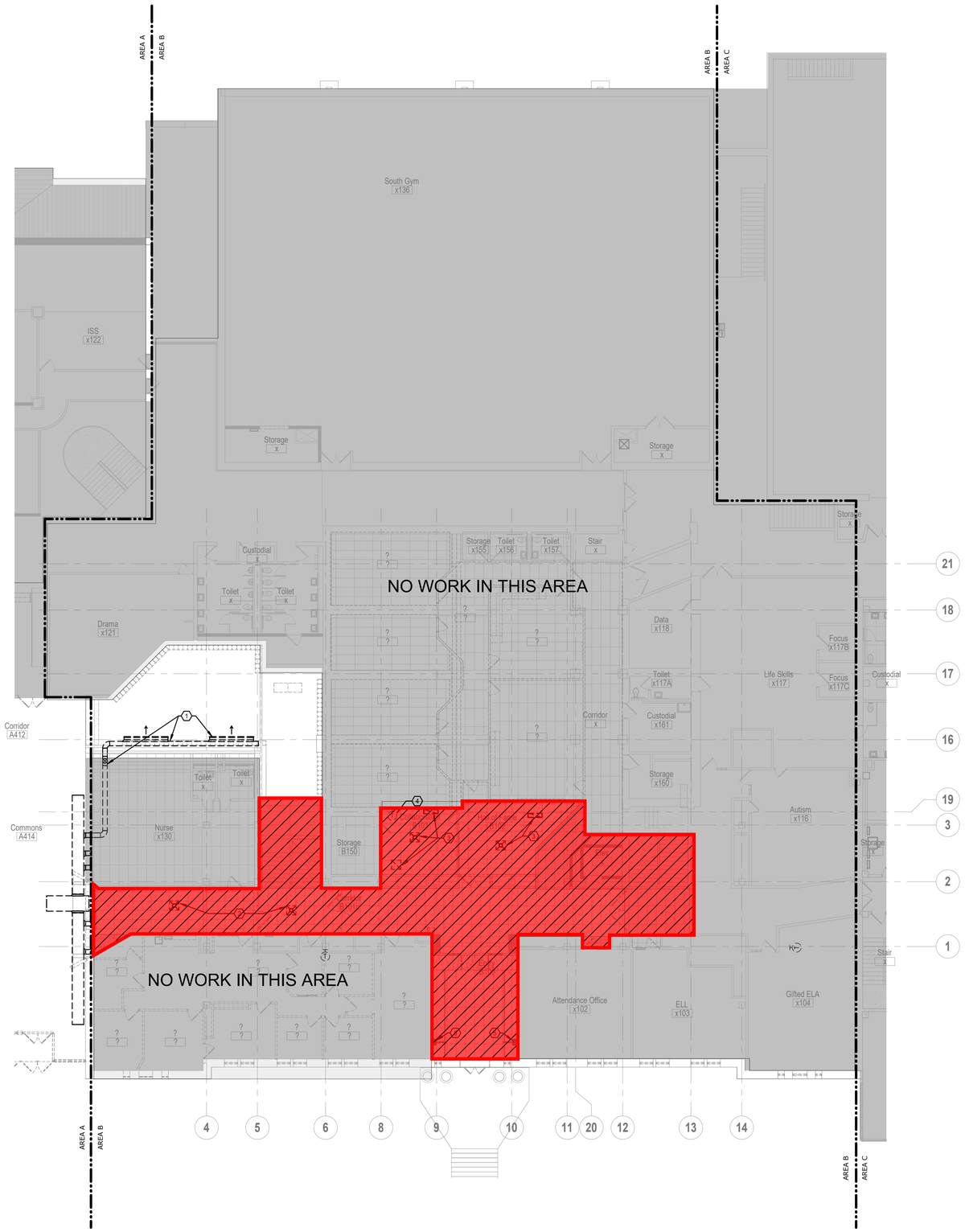

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING DUCTWORK, DIFFUSERS AND GRILLES.
2. DISCONNECT AND REMOVE AND EXISTING DIFFUSERS/GRILLES AS REQUIRED FOR UPGRADES.
3. DISCONNECT AND REMOVE EXISTING DIFFUSER/GRILLE.
4. EXISTING THERMOSTAT TO REMAIN.
5. EXISTING UNIT HEATER TO REMAIN.

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REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006871
PROFESSIONAL ENGINEER
12/7/23

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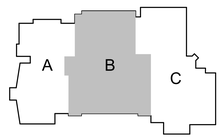
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

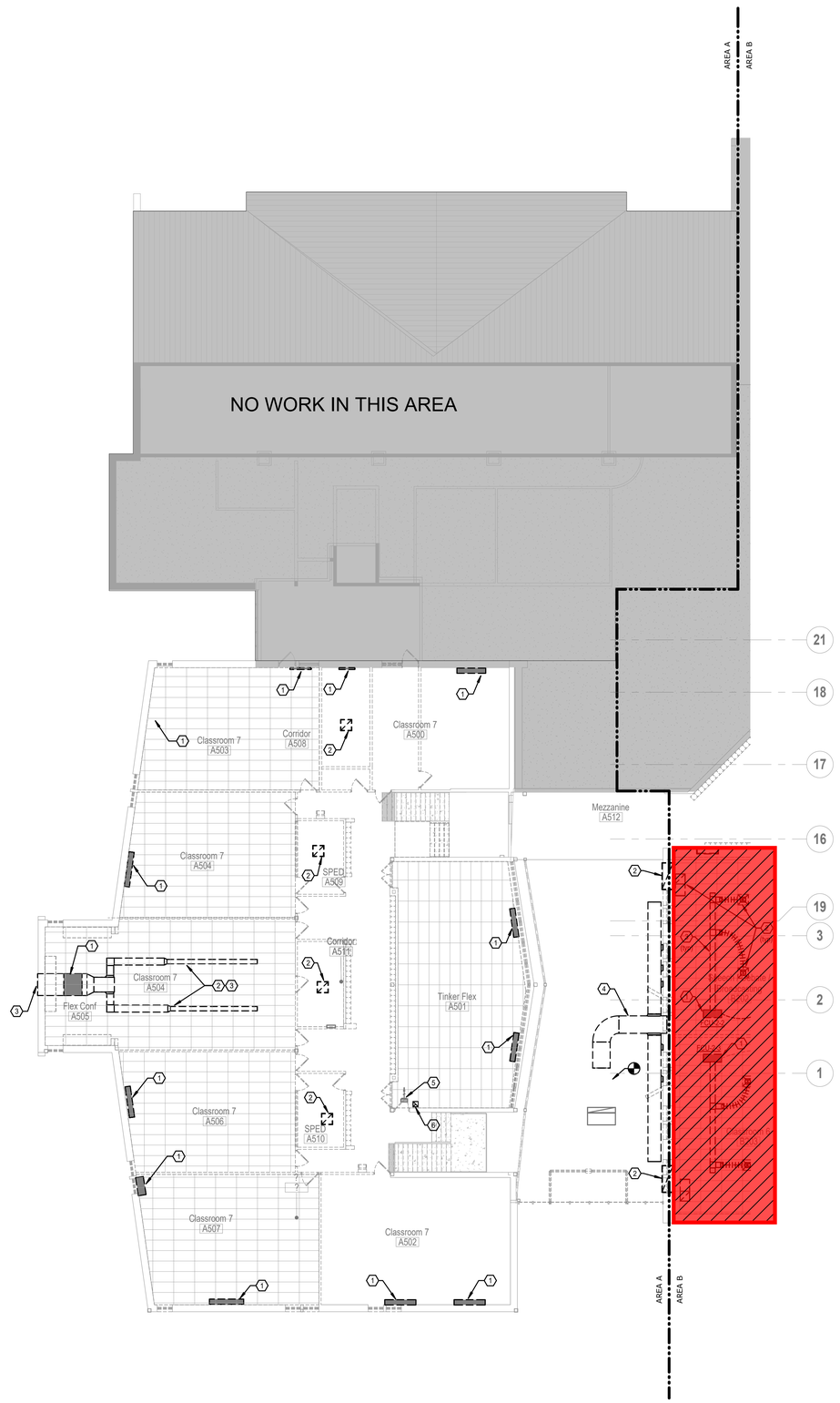
DM101B

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PLAN - LEVEL 1 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PLAN - LEVEL 1 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

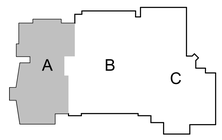
PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ITS ASSOCIATE THERMOSTAT. FIELD VERIFY EXACT LOCATION.
2. DISCONNECT AND REMOVE EXISTING DIFFUSERS/GRILLE.
3. DISCONNECT AND REMOVE EXISTING DUCTWORK.
4. EXISTING DUCTWORK TO REMAIN.
5. DISCONNECT AND REMOVE EXISTING UNIT HEATER.
6. DISCONNECT AND REMOVE EXISTING EXHAUST GRILLE. CAP DUCT ABOVE CEILING.

= Phase 2 Scope of Work
(Not included in this Bid Package)

PROJECT NORTH TRUE NORTH

KEY PLAN



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project number 2314708

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006871
PROFESSIONAL ENGINEER
12/7/23

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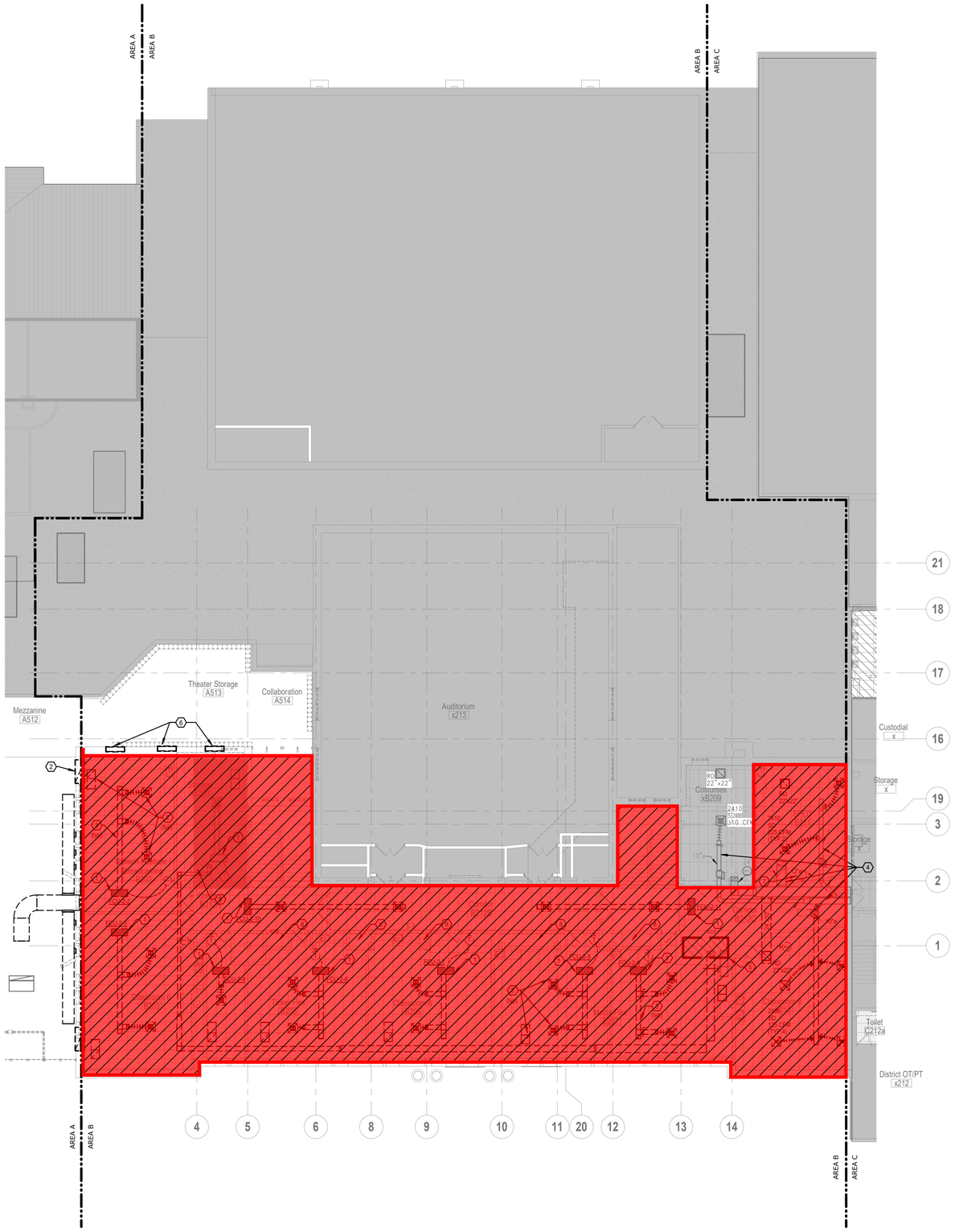
JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DM102A

DEMOLITION HVAC PLAN - LEVEL 2 - AREA A



A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ITS ASSOCIATE THERMOSTAT. FIELD VERIFY EXACT LOCATION.
2. DISCONNECT AND REMOVE EXISTING DIFFUSERS/GRILLE.
3. DISCONNECT AND REMOVE EXISTING DUCTWORK.
4. EXISTING DUCTWORK TO REMAIN.
5. EXISTING DUCTWORK IN CHASE TO REMAIN.
6. EXISTING DUCTWORK AND DIFFUSERS TO REMAIN IN HATCHED AREA.
7. EXISTING THERMOSTAT TO REMAIN.
8. DISCONNECT AND REMOVE EXISTING DUCTWORK WITHIN CHASE.

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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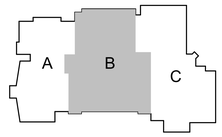
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DM102B

DEMOLITION HVAC PLAN - LEVEL 2 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

(1) DISCONNECT AND REMOVE EXISTING DIFFUSERS AND GRILLES.

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REVISIONS:

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STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
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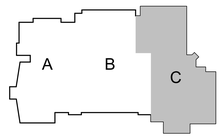

JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DM102C

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PLAN - LEVEL 2 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PLAN - LEVEL 2 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ITS ASSOCIATE THERMOSTAT. FIELD VERIFY EXACT LOCATION.
2. EXISTING DUCTWORK TO REMAIN.
3. DISCONNECT AND REMOVE EXISTING DUCTWORK.
4. DISCONNECT AND REMOVE EXISTING DIFFUSERS/GRILLE.
5. DISCONNECT AND REMOVE EXISTING DUCTWORK WITHIN CHASE.
7. EXISTING DUCTWORK WITHIN CHASE TO REMAIN.

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REVISIONS:

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project number 2314708

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PROFESSIONAL ENGINEER
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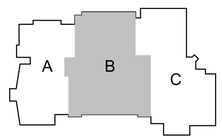
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
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DATE: 12.07.2023

DM103B

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PLAN - LEVEL 3 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING 2-PIPE HWS/HWR AND CHWS/CHWR PIPING FROM AHU'S TO THE EXISTING BOILER AND EXISTING CHILLER PLANT. FIELD VERIFY EXACT LOCATION.
2. EXISTING BOILER AND CHILLER TO REMAIN. FIELD VERIFY EXACT LOCATION.
3. DISCONNECT AND REMOVE EXISTING 2-PIPE HWS/HWR AND CHWS/CHRW PIPING THROUGHOUT ENTIRE 1964 PORTION OF THE BUILDING TO BE REPLACED WITH A 4 PIPE HWS, HWR, CHWS AND CHRW PIPING SYSTEM.

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Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
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REVISIONS:

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project number 2314708

STATE OF MISSOURI
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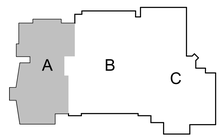
KEY PLAN



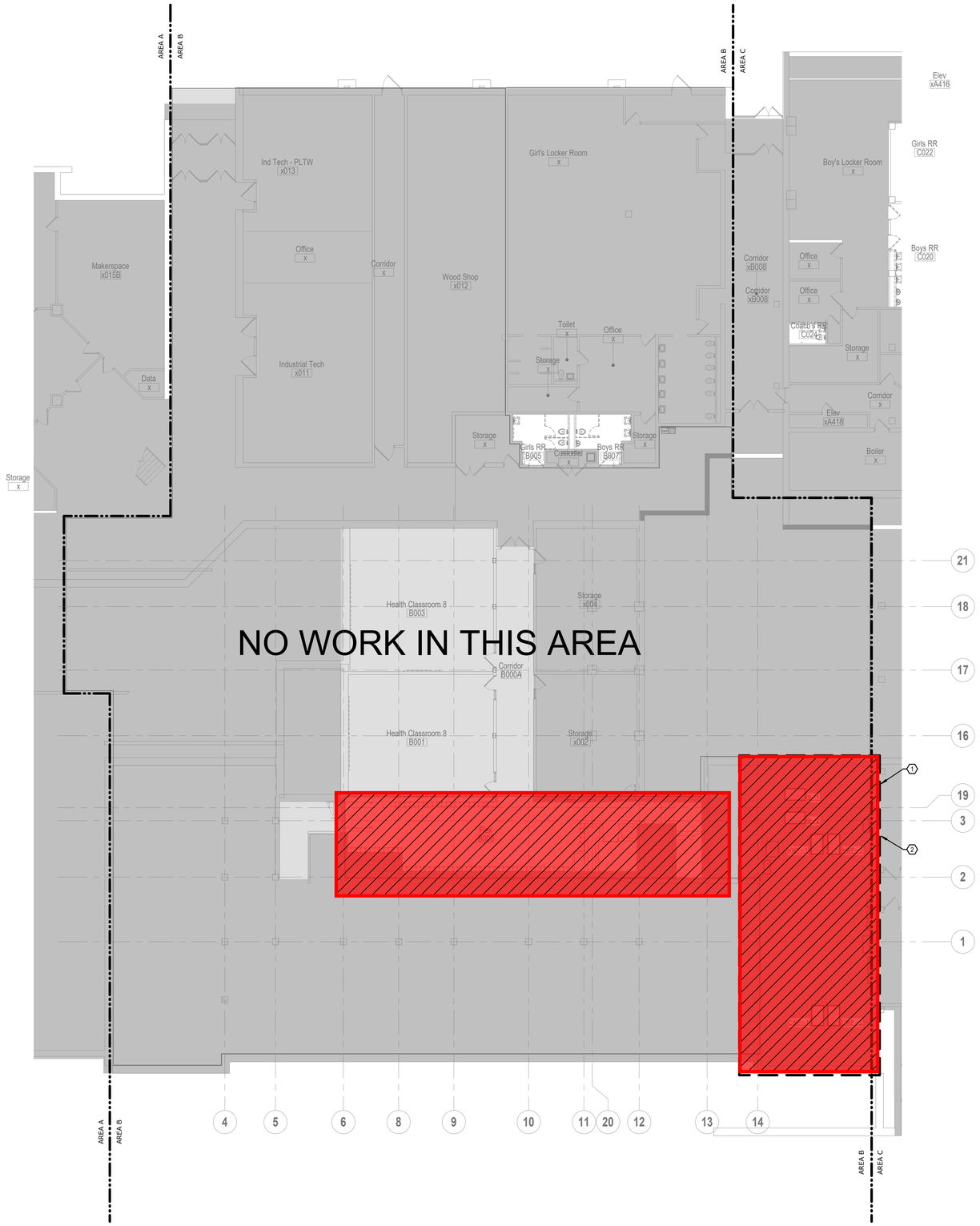
DM200A

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PIPING PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PIPING PLAN - LEVEL 0 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. EXISTING BOILER AND CHILLER TO REMAIN. ALL CHWS, CHWR, HWS, AND HWR TO REMAIN THROUGH OUT BUILDING.
2. PROVIDE ALTERNATE TO REPLACE EXISTING BOILER AND CHILLER. FILED VERIFY EXACT LOCATION. INCLUDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL SYSTEM.

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STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
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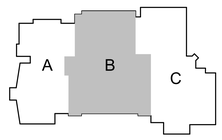
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

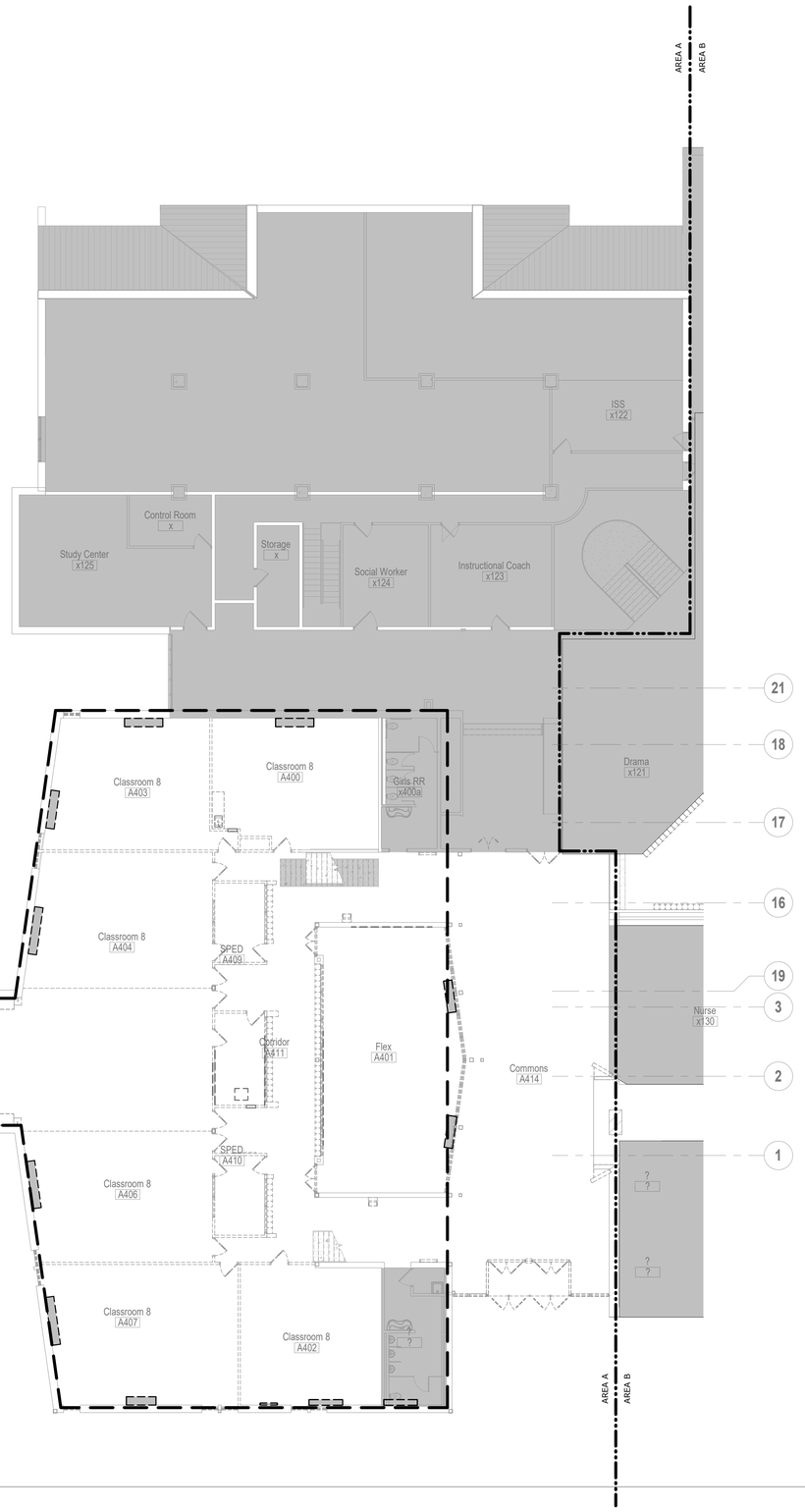
DM200B

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PIPING PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PIPING PLAN - LEVEL 0 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. UNLESS OTHERWISE NOTED, SERVICES AND EQUIPMENT SHOWN WITH BOLD DASHED LINES ARE TO BE DEMOLISHED. SERVICES AND EQUIPMENT SHOWN WITH SOLID HALF TONE LINE WEIGHT ARE TO REMAIN IN PLACE.

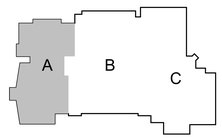
   EXISTING _____
   DEMO – – – – – – – – – –

2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSIDERED "AS BUILT" CONDITIONS. THE INFORMATION SHOWN IS TO ESTABLISH THE EXTENT OF THE SCOPE OF WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDISTIONS AND THE EXTENT OF THE WORK INDICATED.
3. FLOOR WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE.
4. DISCONNECT AND REMOVE ALL DUCTWORK, PIPING, WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED.
5. WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING, AND PIPING BEHIND THE FLOOR LINE OR WALL LINE TO FACILITATE THE RESTORATION OF FINISH.
6. PROVIDE FOR THE CONTINUITY OF AL REMAINING SERVICES, SYSTEMS, AND CIRCUITS. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS.

PLAN DEMOLITION NOTES:

(1) DISCONNECT AND REMOVE EXISTING 2-PIPE HWS/HWR AND CHWS/CHRW PIPING THROUGHOUT ENTIRE 1964 PORTION OF THE BUILDING.

KEY PLAN



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project number 2314708

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600 W. Kansas Street
Liberty, MO 64068

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REVISIONS:

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006871
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

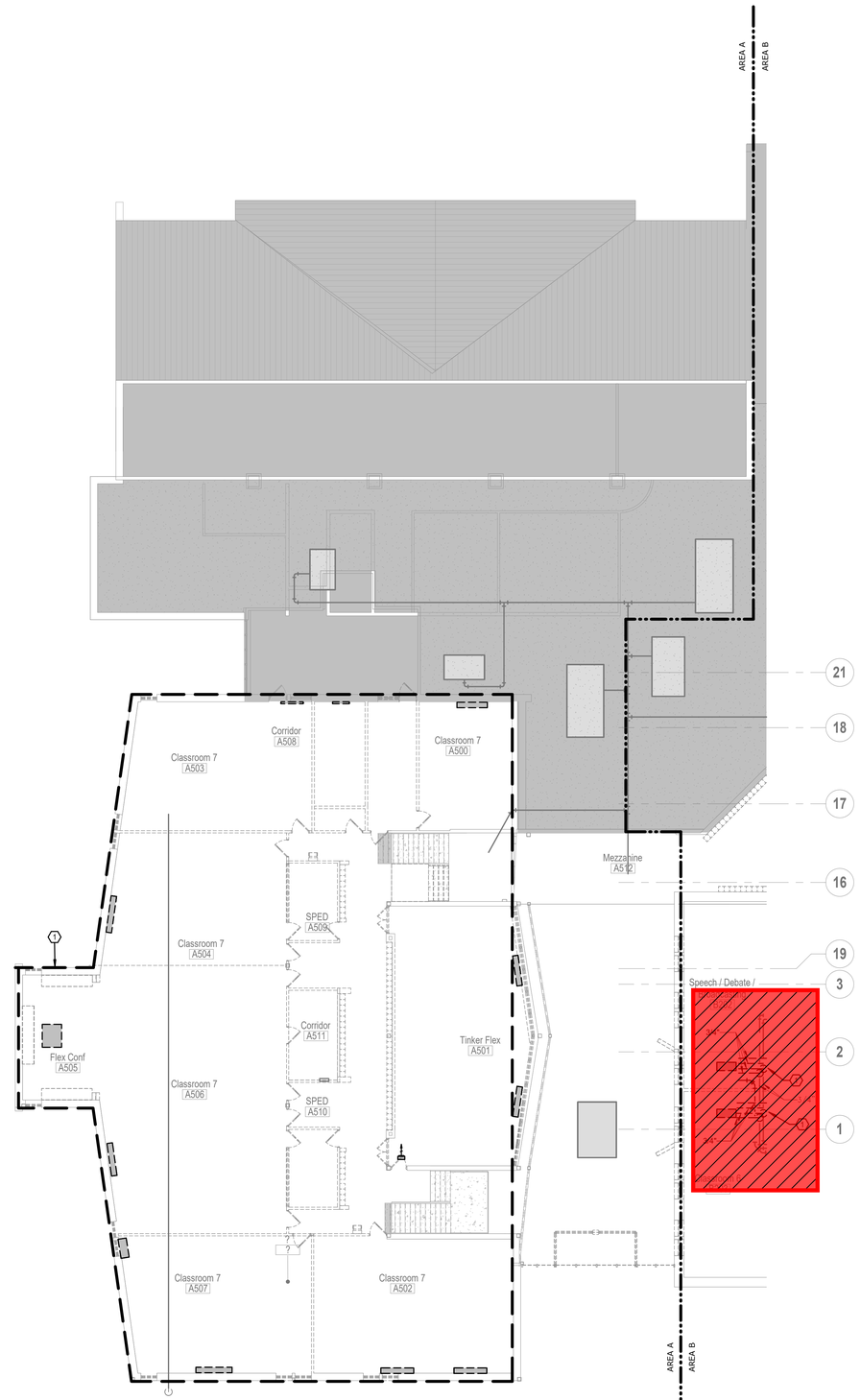
DM201A

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PIPING PLAN - LEVEL 1 - AREA A

PROJECT NORTH / TRUE NORTH

DEMOLITION HVAC PIPING PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. UNLESS OTHERWISE NOTED, SERVICES AND EQUIPMENT SHOWN WITH BOLD DASHED LINES ARE TO BE DEMOLISHED. SERVICES AND EQUIPMENT SHOWN WITH SOLID HALF TONE LINE WEIGHT ARE TO REMAIN IN PLACE.

   EXISTING ————————————
   DEMO – – – – – – – – – – – – – – – –

2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSIDERED "AS BUILT" CONDITIONS. THE INFORMATION SHOWN IS TO ESTABLISH THE EXTENT OF THE SCOPE OF WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDISTIONS AND THE EXTENT OF THE WORK INDICATED.
3. FLOOR WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE.
4. DISCONNECT AND REMOVE ALL DUCTWORK, PIPING, WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED.
5. WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING, AND PIPING BEHIND THE FLOOR LINE OR WALL LINE TO FACILITATE THE RESTORATION OF FINISH.
6. PROVIDE FOR THE CONTINUITY OF AL REMAINING SERVICES, SYSTEMS, AND CIRCUITS. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS.

PLAN DEMOLITION NOTES:

(1) DISCONNECT AND REMOVE EXISTING 2-PIPE HWS/HWR AND CHWS/CHRW PIPING THROUGHOUT ENTIRE 1964 PORTION OF THE BUILDING.

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NUMBER 2015040171
PROFESSIONAL ENGINEER
12/7/23

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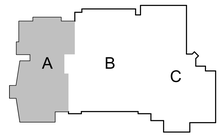
JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

KEY PLAN



DM202A

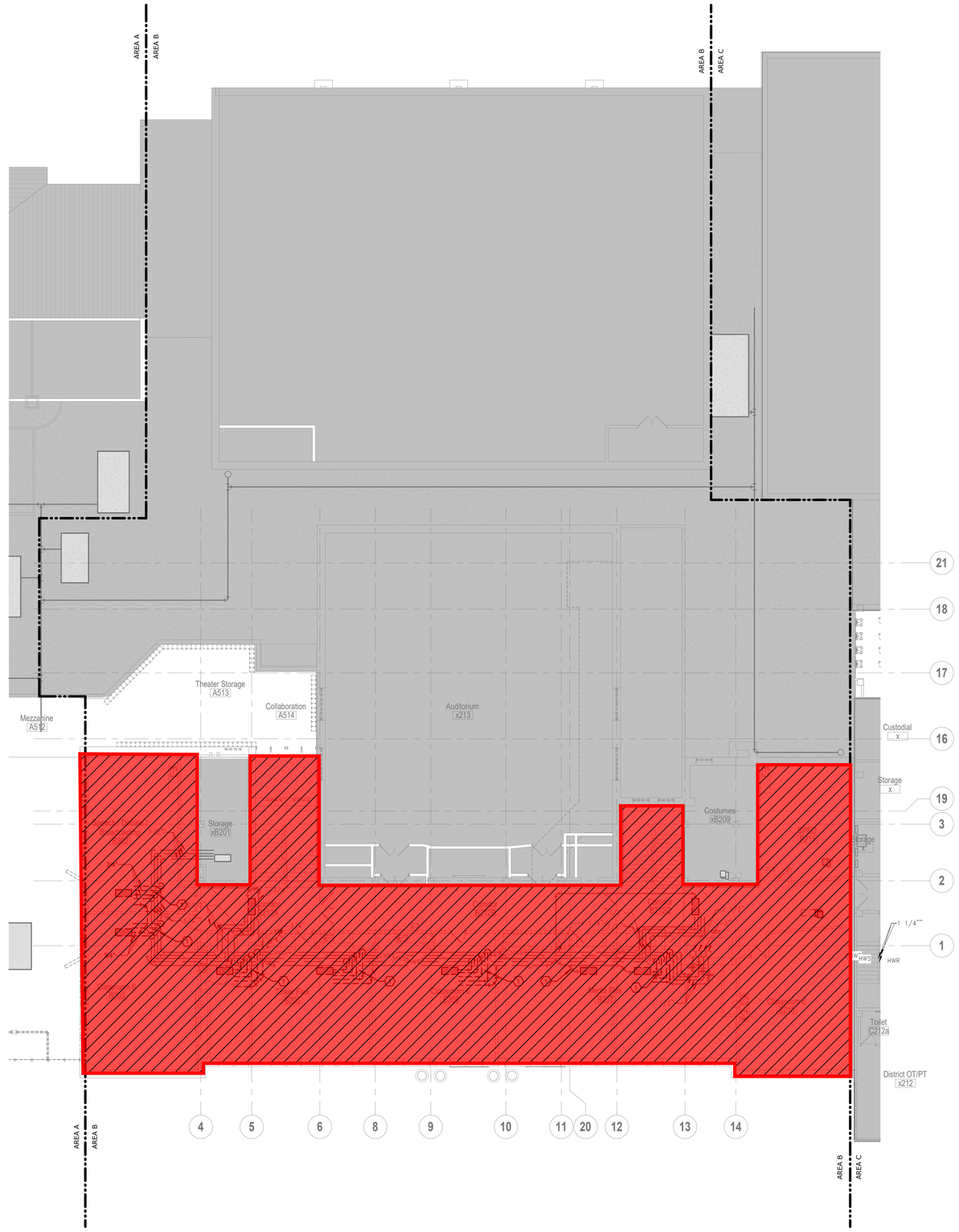
A1 Scale 3/32" = 1'-0"

DEMOLITION HVAC PIPING PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PIPING PLAN - LEVEL 2 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

(1) DISCONNECT AND REMOVE EXISTING CHWS, CHWR, HWS, HWR AND DRAIN PIPING. CAP TO EXTENT SHOWN.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015008871
PROFESSIONAL ENGINEER
12/7/23

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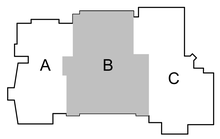
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

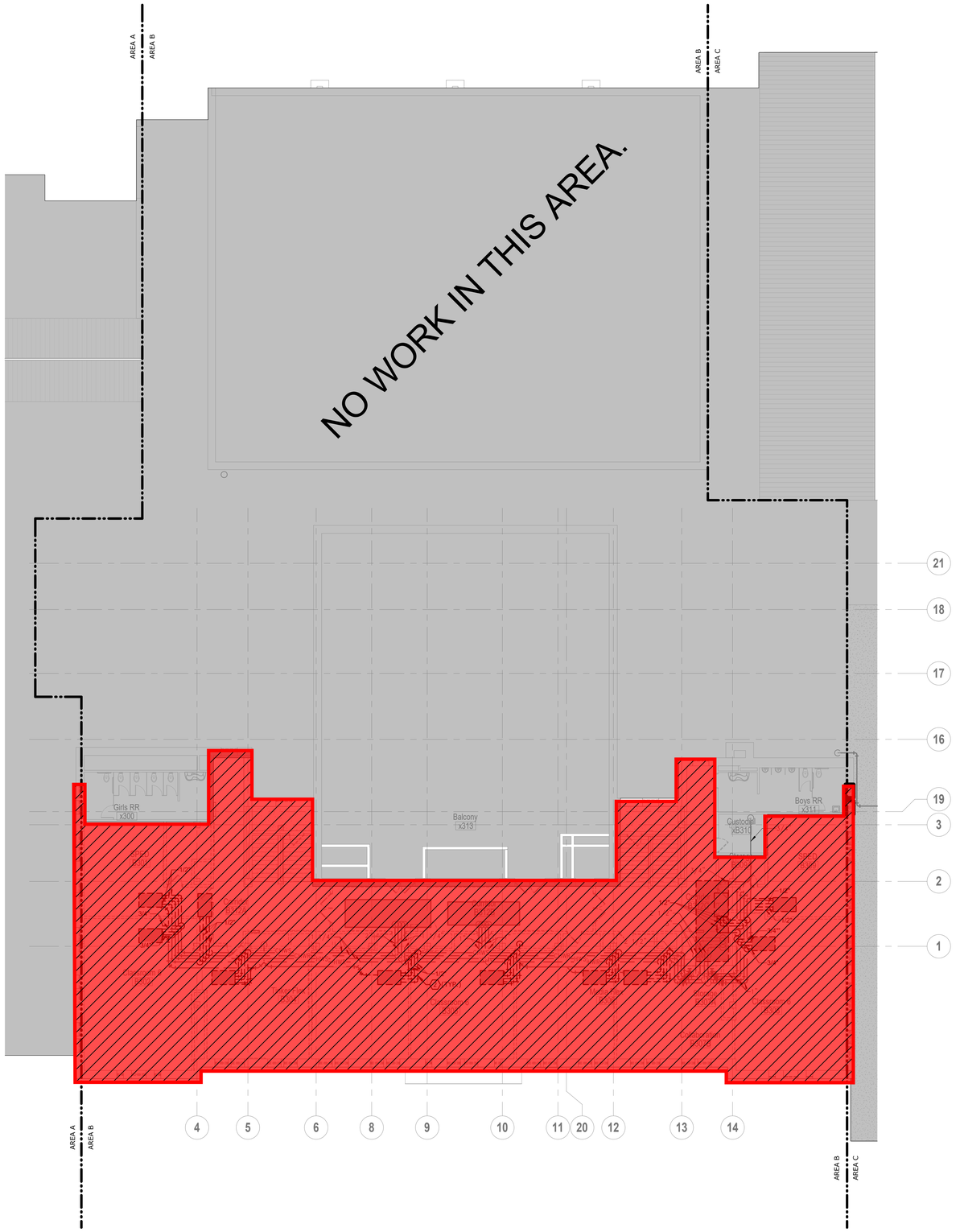
DM202B

A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PIPING PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION HVAC PIPING PLAN - LEVEL 2 - AREA B

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | DEMOLITION HVAC PIPING PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON DM100A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING CHWS, CHWR, HWS, HWR AND DRAIN PIPING. CAP TO EXTENT SHOWN.

= Phase 2 Scope of Work (Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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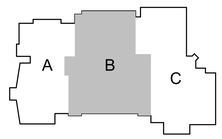
KEY PLAN

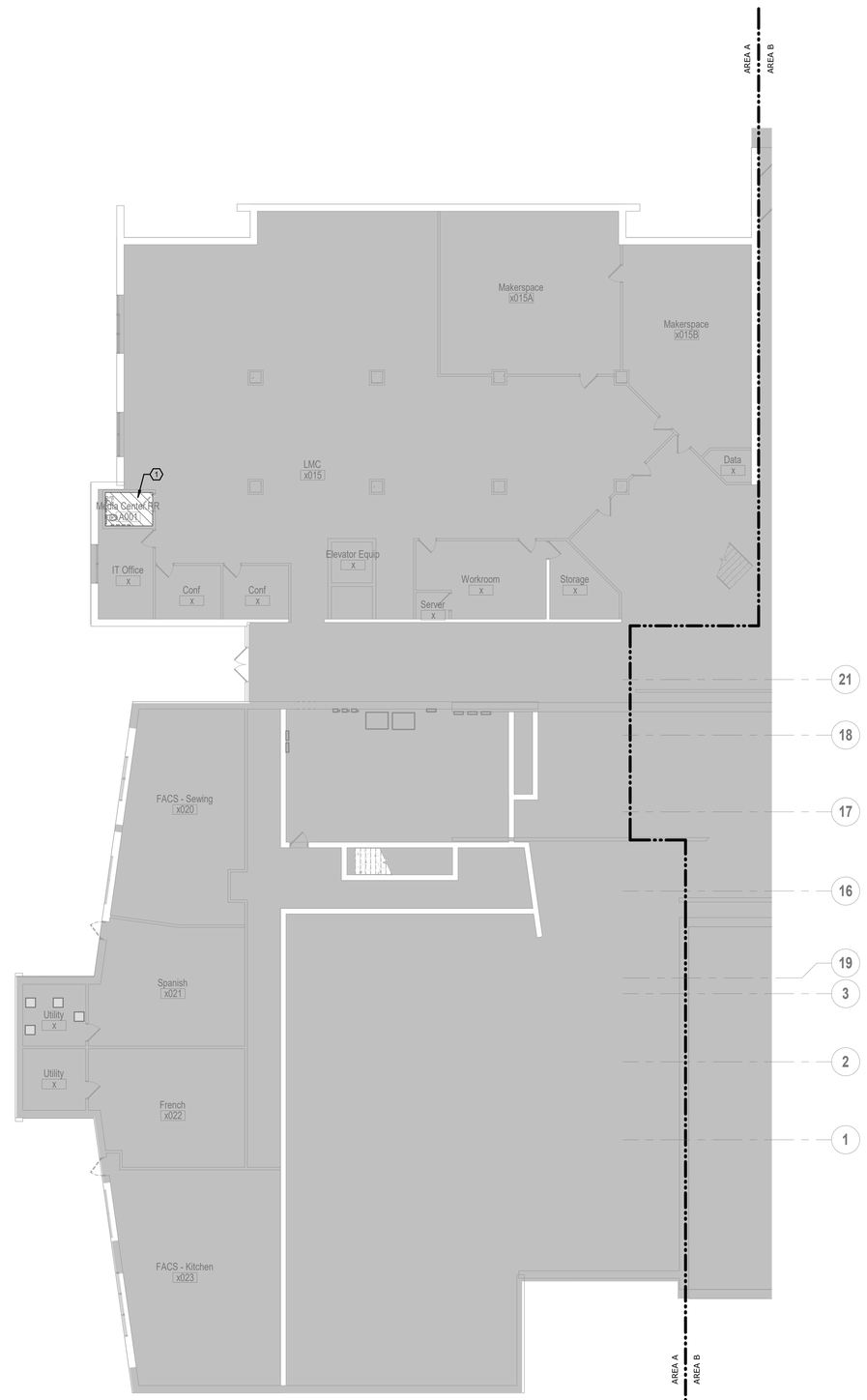


JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DM203B

DEMOLITION HVAC PIPING PLAN - LEVEL 3 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
2. BOLD DASHED LINES INDICATE MECHANICAL OR ELECTRICAL EQUIPMENT THAT SHALL BE REMOVED. LIGHT, THIN LINES REPRESENT EXISTING EQUIPMENT OR MATERIAL TO REMAIN, EXCEPT WHERE OTHERWISE NOTED.

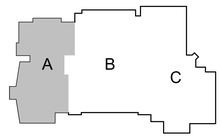
EXISTING
DEMO

3. DISCONNECT AND REMOVE ALL PIPING, WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED. PROVIDE FOR THE CONTINUITY OF ALL REMAINING SYSTEMS AND CIRCUITS.
4. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS. WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED ALL UNUSED CONDUIT, WIRING, AND PIPING ARE TO BE DISCONNECTED AND REMOVE COMPLETELY BACK TO SOURCE.
5. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN IN USE, FURNISH AND INSTALL ALL REQUIRED WIRE, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
6. ALL CORE DRILLING, SAW CUTTING, AND OTHER LOUD ACTIVITIES SHALL BE PERFORMED DURING OFF HOURS. EXAMINE SLAB AS REQUIRED BY SPECIFICATIONS. COORDINATE WITH BUILDING MANAGEMENT FOR OFF-HOURS ACCESS TO SPACES AS APPROVAL TO PROCEED.

PLAN NOTES:

(1) DISCONNECT AND REMOVING ALL EXISTING WATER CLOSETS, LAVATORY AND URINALS IN THIS AREA. EXISTING DOMESTIC COLD WATER PIPING AND SANITARY WASTE AND VENT PIPING ROUGH-IN SHALL REMAIN. PREPARE PIPING AS REQUIRED FOR INSTALLATION OF NEW FIXTURE TO REPLACE EXISTING.

KEY PLAN



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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
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Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDRICH
NUMBER PE-2015006171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

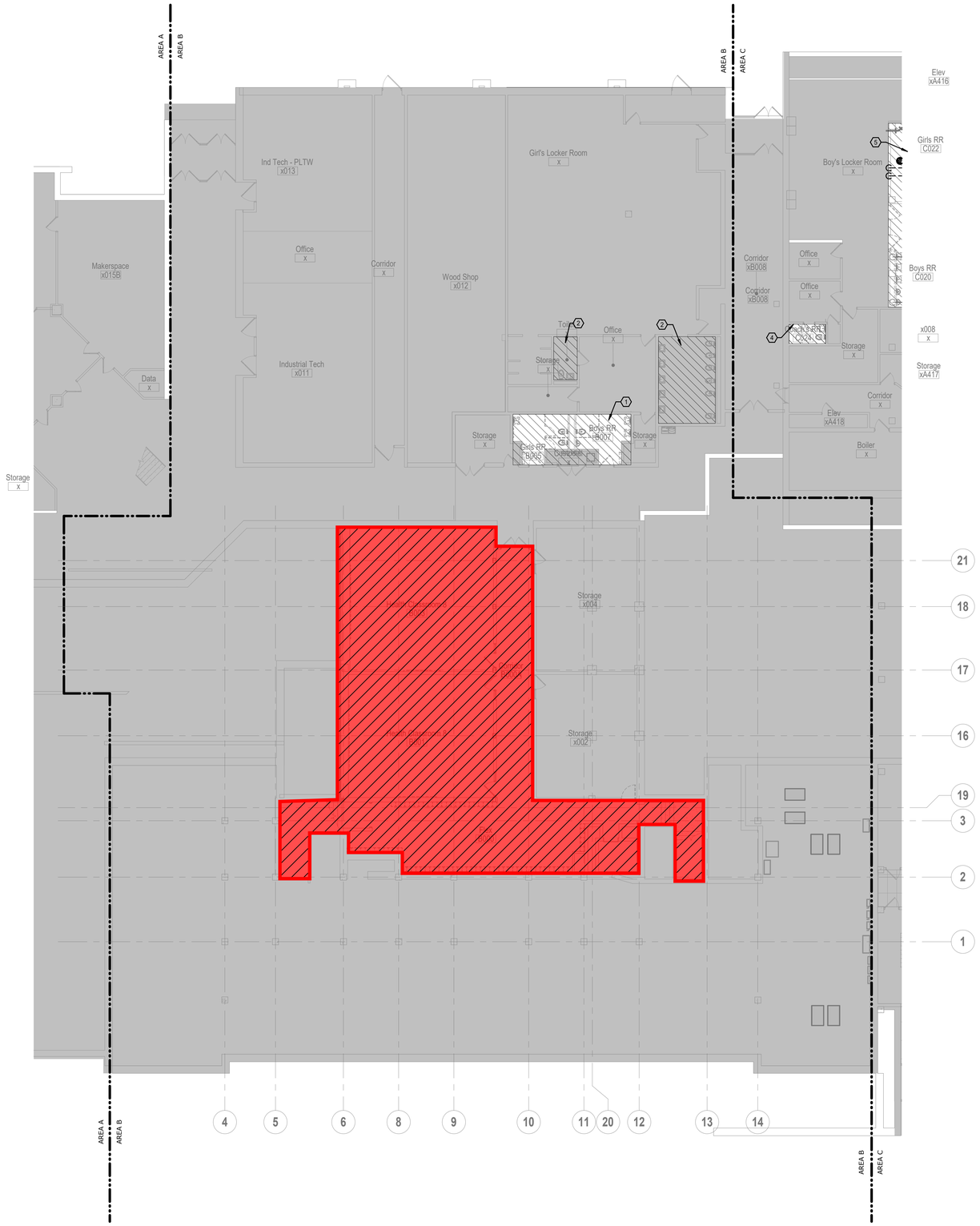
DP100A

A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA A

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN NOTES:

1. DISCONNECT AND REMOVING ALL EXISTING WATER CLOSETS, LAVATORY AND URINALS IN THIS AREA. EXISTING DOMESTIC COLD WATER PIPING AND SANITARY WASTE AND VENT PIPING ROUGH-IN SHALL REMAIN. PREPARE PIPING AS REQUIRED FOR INSTALLATION OF NEW FIXTURE TO REPLACE EXISTING.
2. ALL WATER CLOSETS, LAVATORIES, URINALS AND FLOOR DRAINS ARE EXISTING TO REMAIN WITHIN HATCHED AREA.

= Phase 2 Scope of Work
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Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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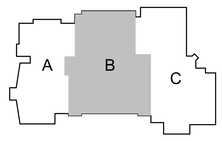
KEY PLAN



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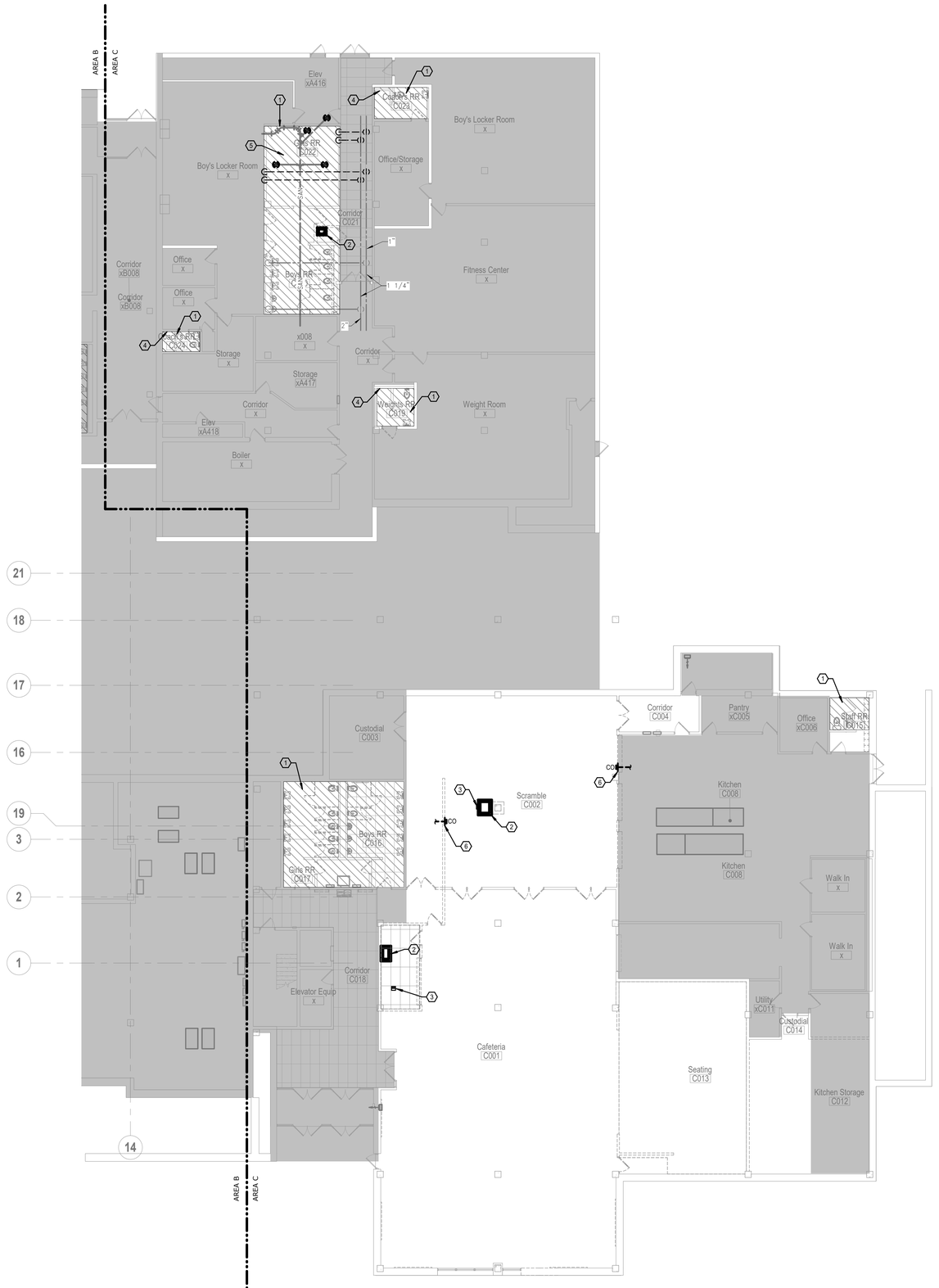
DP100B

DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN NOTES:

1. DISCONNECT AND REMOVING ALL EXISTING WATER CLOSETS, LAVATORY AND URINALS IN THIS AREA. EXISTING DOMESTIC COLD WATER PIPING AND SANITARY WASTE AND VENT PIPING ROUGH-IN SHALL REMAIN. PREPARE PIPING AS REQUIRED FOR INSTALLATION OF NEW FIXTURE TO REPLACE EXISTING.
2. DISCONNECT AND REMOVE EXISTING SINK AND ALL ASSOCIATED DOMESTIC COLD WATER PIPING, HOT WATER PIPING AND SANITARY WASTE AND VENT PIPING FOR A COMPLETE DEMOLITION OF FIXTURE AND ASSOCIATED PIPING. DISCONNECT AND REMOVE EXISTING DOMESTIC COLD WATER AND HOT WATER PIPING TO LOCATION OF THE BRANCH TAKE-OFF FOR THE FIXTURE. CAP EXISTING DOMESTIC COLD WATER AND HOT WATER PIPING TO REMAIN AT THIS LOCATION. DISCONNECT AND REMOVE EXISTING SANITARY WASTE AND VENT PIPING TO THE LOCATION OF THE TAKE-OFF FOR THE FIXTURE. CAP EXISTING SANITARY WASTE AND VENT PIPING AT THIS LOCATION. DISCONNECT AND REMOVE ALL EXISTING FIXTURE SUPPORTS AND MOUNTING HARDWARE.
3. DISCONNECT AND REMOVE EXISTING FLOOR SINK. CAP SANITARY AND VENT PIPING AT THIS LOCATION.
4. DISCONNECT AND REMOVE EXISTING SHOWER HEAD FIXTURE. PREPARE PIPING FOR INSTALLATION OF NEW SHOWER HEAD FIXTURE IN THE SAME LOCATION.
5. DISCONNECT AND REMOVE EXISTING SHOWER HEAD 25618 W 103rd St Olathe, KS 66061 913.345.2127 phone 913.345.0617 fax FIXTURE. CAP EXISTING DOMESTIC COLD WATER, HOT WATER, SANITARY AND VENT PIPING FOR EACH EXISTING SHOWER HEAD. FIELD VERIFY EXACT LOCATION.
6. DISCONNECT AND REMOVE EXISTING CLEANOUT. SALVAGE FOR RE-INSTALLATION.

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI RYAN JEROD DIEDIKER NUMBER PE-2015006871 REGISTERED PROFESSIONAL ENGINEER 12/7/23

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JOB NO: 23024
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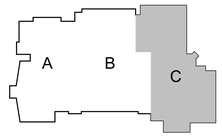
DATE: 12.07.2023

KEY PLAN



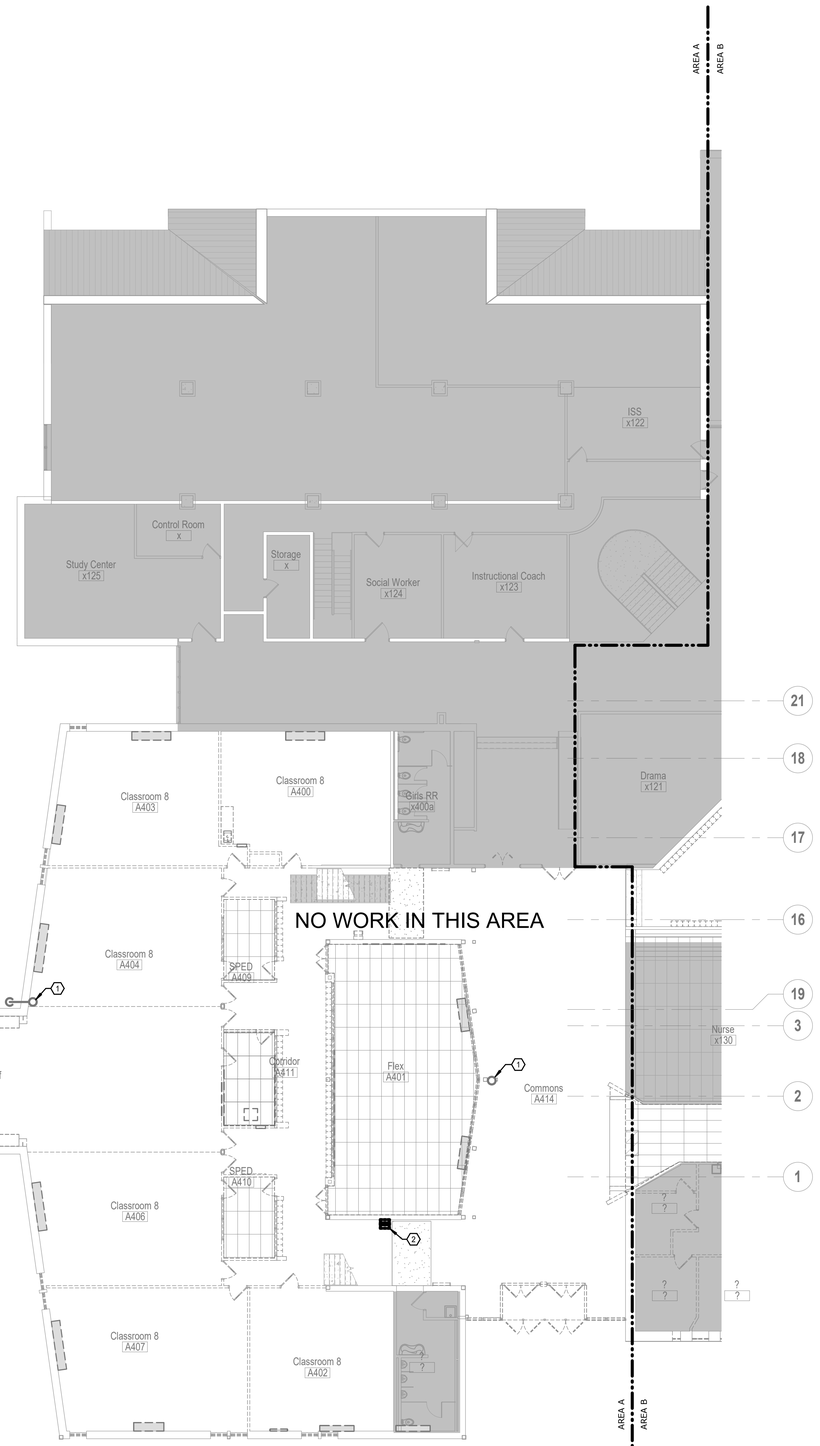
DP100C

A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION PLUMBING PLAN - LEVEL 0 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN DEMOLITION NOTES:

(1) EXISTING STORM PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.

(2) DISCONNECT AND REMOVE EXISTING DRINKING FOUNTAIN AND ALL ASSOCIATED DOMESTIC COLD WATER PIPING, AND SANITARY WASTE AND VENT PIING FOR A COMPLETE DEMOLITION OF FIXTURE AND ASSOCIATED PIPING. DISCONNECT AND REMOVE EXISTING DOMESTIC COLD WATER PIPING TO LOCATION OF THE BRANCH TAKE-OFF FOR THE FIXTURE. CAP EXISTING DOMESTIC COLD WATER PIPING TO REMAIN AT THIS LOCATION. DISCONNECT AND REMOVE EXISTING SANITARY WASTE AND VENT PIPING TO THE LOCATION OF THE TAKE-OFF FOR THE FIXTURE. CAP EXISTING SANITARY WASTE AND VENT PIPING AT THIS LOCATION. DISCONNECT AND REMOVE ALL EXISTING FIXTURE SUPPORTS AND MOUNTING HARDWARE.

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REVISIONS:

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RYAN JEROD DIEDIKER — NUMBER 2015006871 — STATE OF MISSOURI — REGISTERED PROFESSIONAL ENGINEER — 12/7/23

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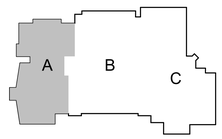


JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

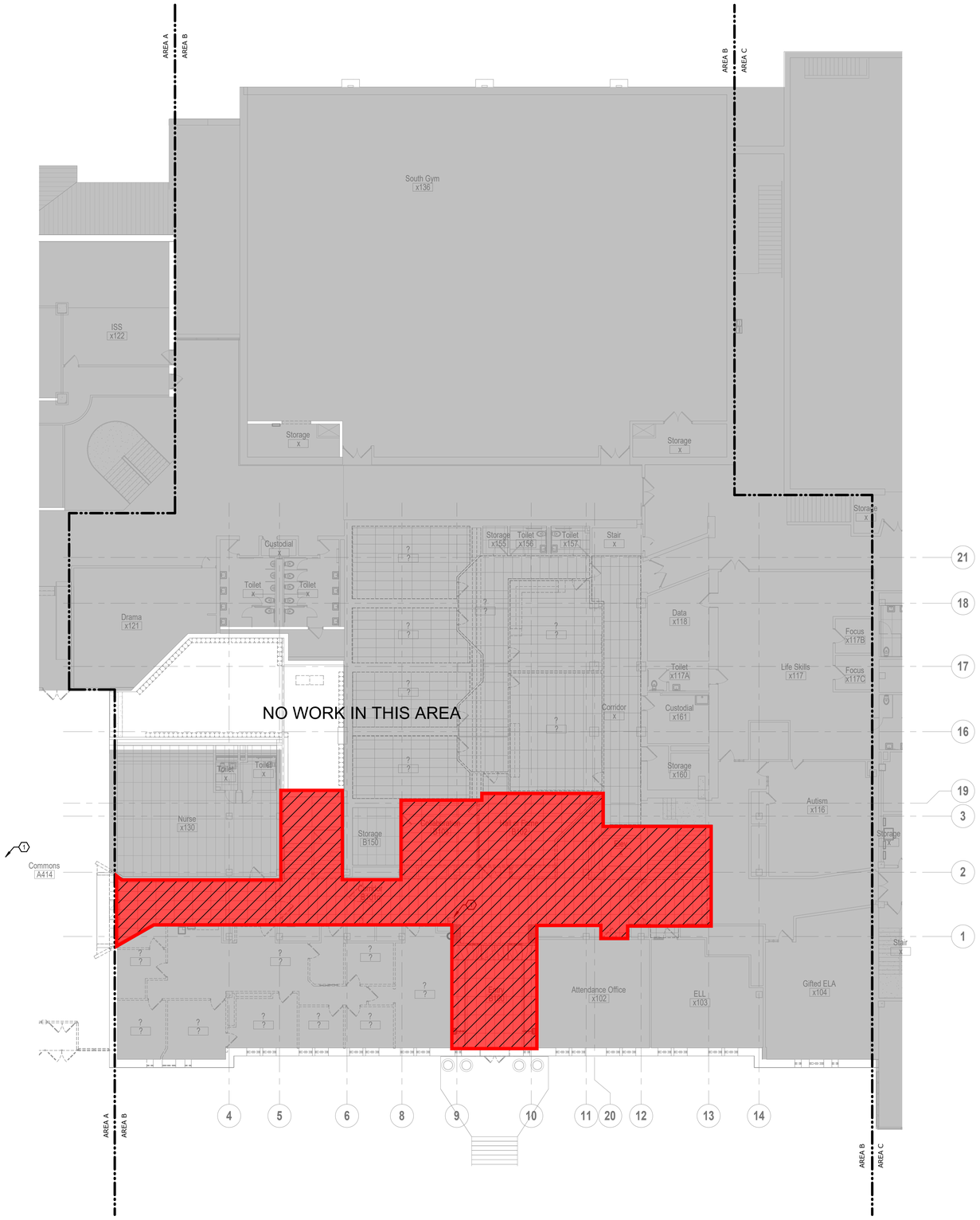
DP101A

A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA A

PROJECT NORTH / TRUE NORTH

DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING DRINKING FOUNTAIN. PREPARE PIPING FOR INSTALLATION OF NEW DRINKING FOUNTAIN IN THE SAME LOCATION.

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date



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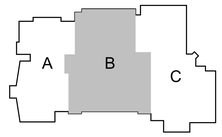
smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DP101B

DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

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Liberty Public Schools
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Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008711
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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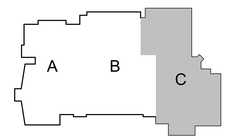
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DP101C

A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN DEMOLITION NOTES:

(1) EXISTING STORM LINE TO REMAIN. FIELD VERIFY EXACT LOCATION.

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Heritage Middle School Renovations

Liberty Public Schools

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REVISIONS:

#	Description	Date

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STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
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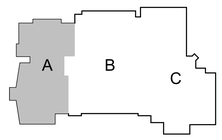
KEY PLAN



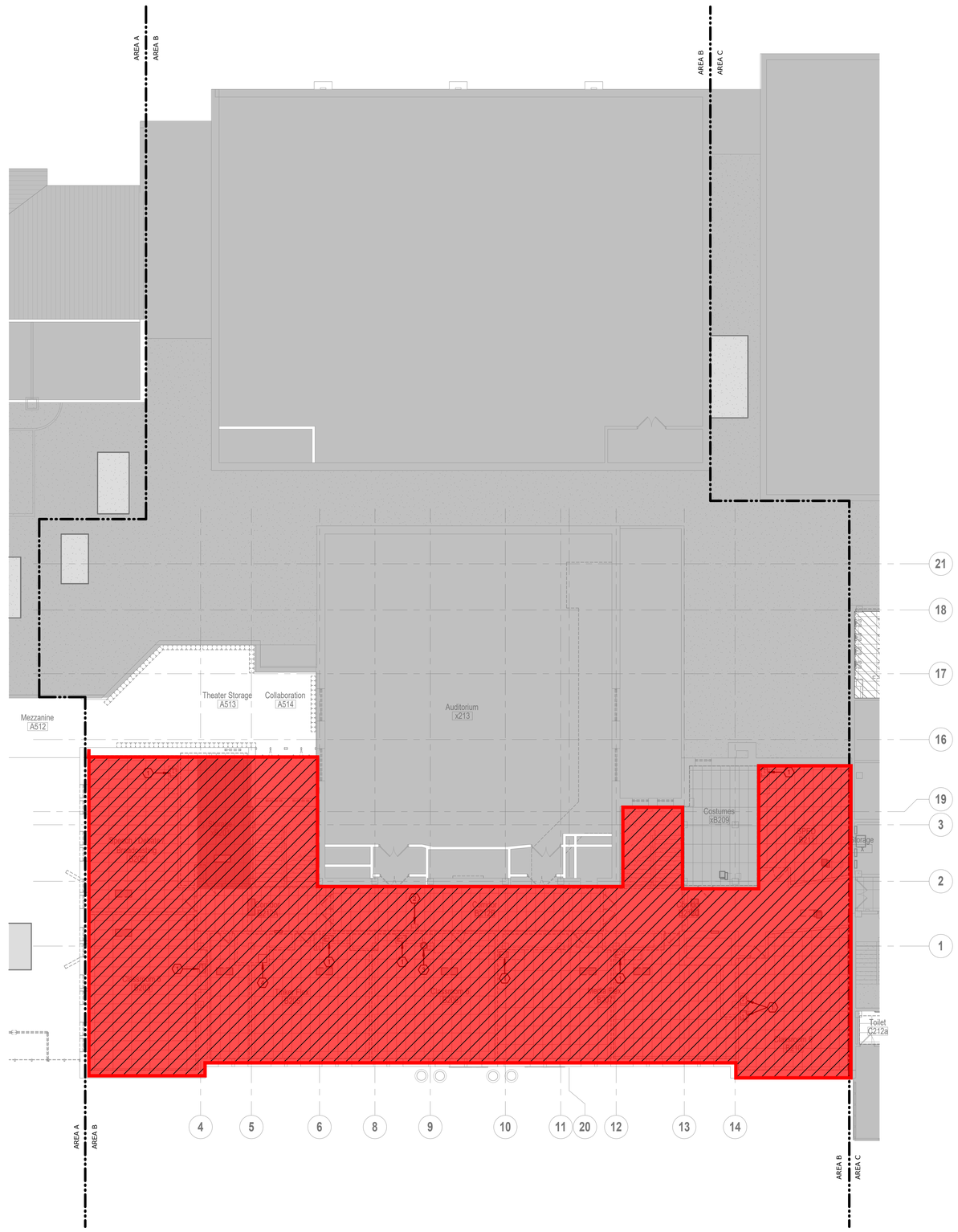
DP102A

A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA A

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN NOTES:

1. DISCONNECT AND REMOVE EXISTING SINK AND ALL ASSOCIATED DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, AND SANITARY WASTE AND VENT PIPING FOR COMPLETE DEMOLITION OF FIXTURE AND ASSOCIATED PIPING. DISCONNECT AND REMOVE EXISTING DOMESTIC COLD WATER PIPING AND DOMESTIC HOT WATER PIPING TO THE LOCATION OF THE BRANCH TAKE-OFF FOR THE FIXTURE. CAP EXISTING DOMESTIC COLD WATER PIPING AND DOMESTIC HOT WATER PIPING TO REMAIN AT THIS LOCATION. DISCONNECT AND REMOVE EXISTING SANITARY WASTE AND VENT PIPING TO THE LOCATION OF THE TAKE-OFF FOR THE FIXTURE. CAP EXISTING SANITARY WASTE AND VENT PIPING AT THIS LOCATION. DISCONNECT AND REMOVE ALL EXISTING FIXTURE SUPPORTS AND MOUNTING HARDWARE.
2. DISCONNECT AND REMOVE EXISTING DRINKING FOUNTAIN. PREPARE PIPING FOR INSTALLATION OF NEW DRINKING FOUNTAIN IN THE SAME LOCATION.
3. EXISTING PLUMBING PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.
4. EXISTING JANITOR SINK TO REMAIN.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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Heritage Middle School Renovations
Liberty Public Schools
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Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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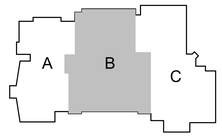
KEY PLAN



JOB NO: 23024
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DATE: 12.07.2023

DP102B

DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA B

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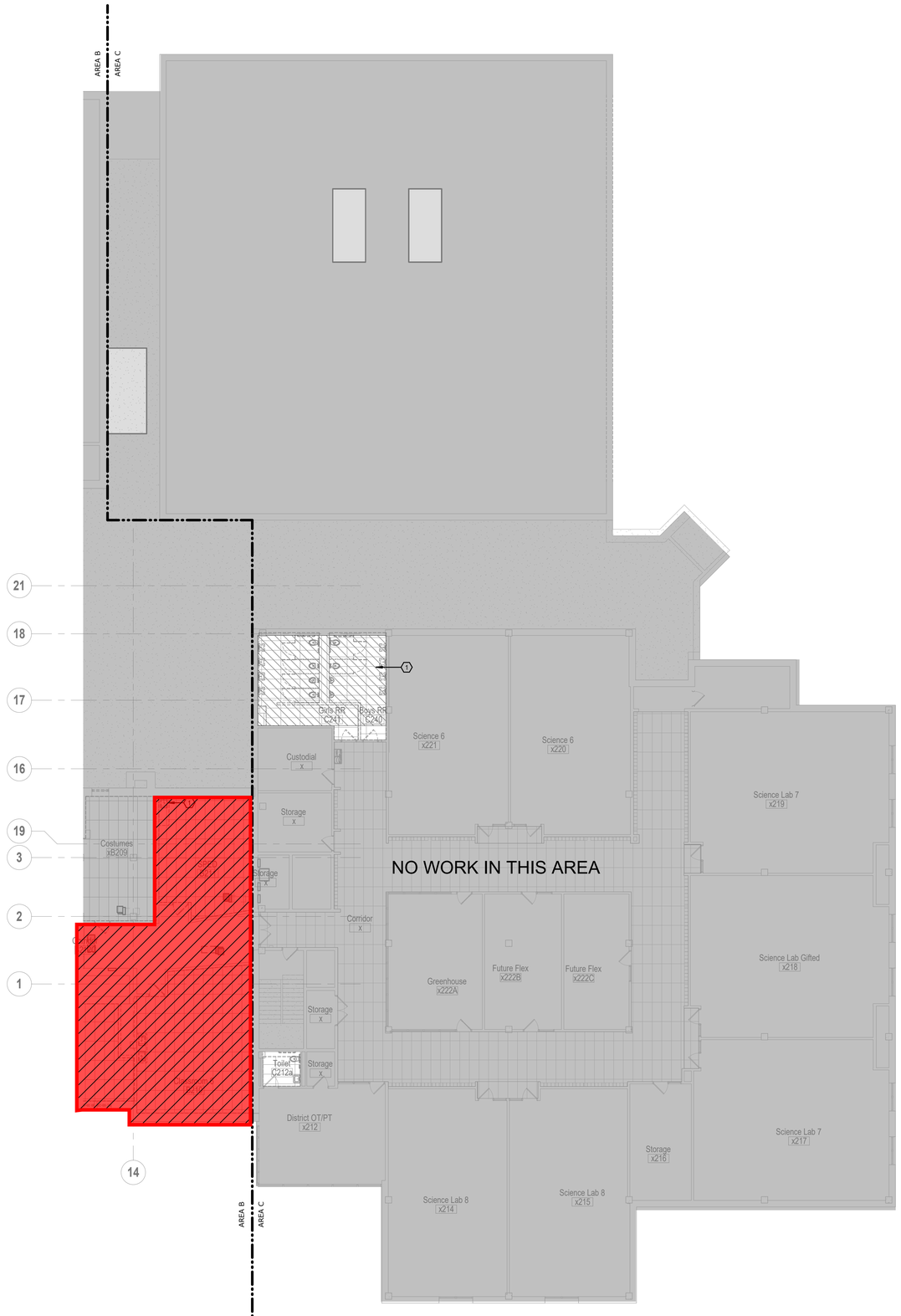


SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

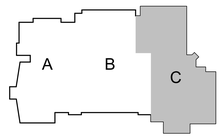
1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN NOTES:

(1) DISCONNECT AND REMOVING ALL EXISTING WATER CLOSETS, LAVATORY AND URINALS IN THIS AREA. EXISTING DOMESTIC COLD WATER PIPING AND SANITARY WASTE AND VENT PIPING ROUGH-IN SHALL REMAIN. PREPARE PIPING AS REQUIRED FOR INSTALLATION OF NEW FIXTURE TO REPLACE EXISTING.

= Phase 2 Scope of Work
(Not included in this Bid Package)

KEY PLAN



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Liberty, MO 64068

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CHECKED BY: RJD
DATE: 12.07.2023

DP102C

A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION PLUMBING PLAN - LEVEL 2 - AREA C

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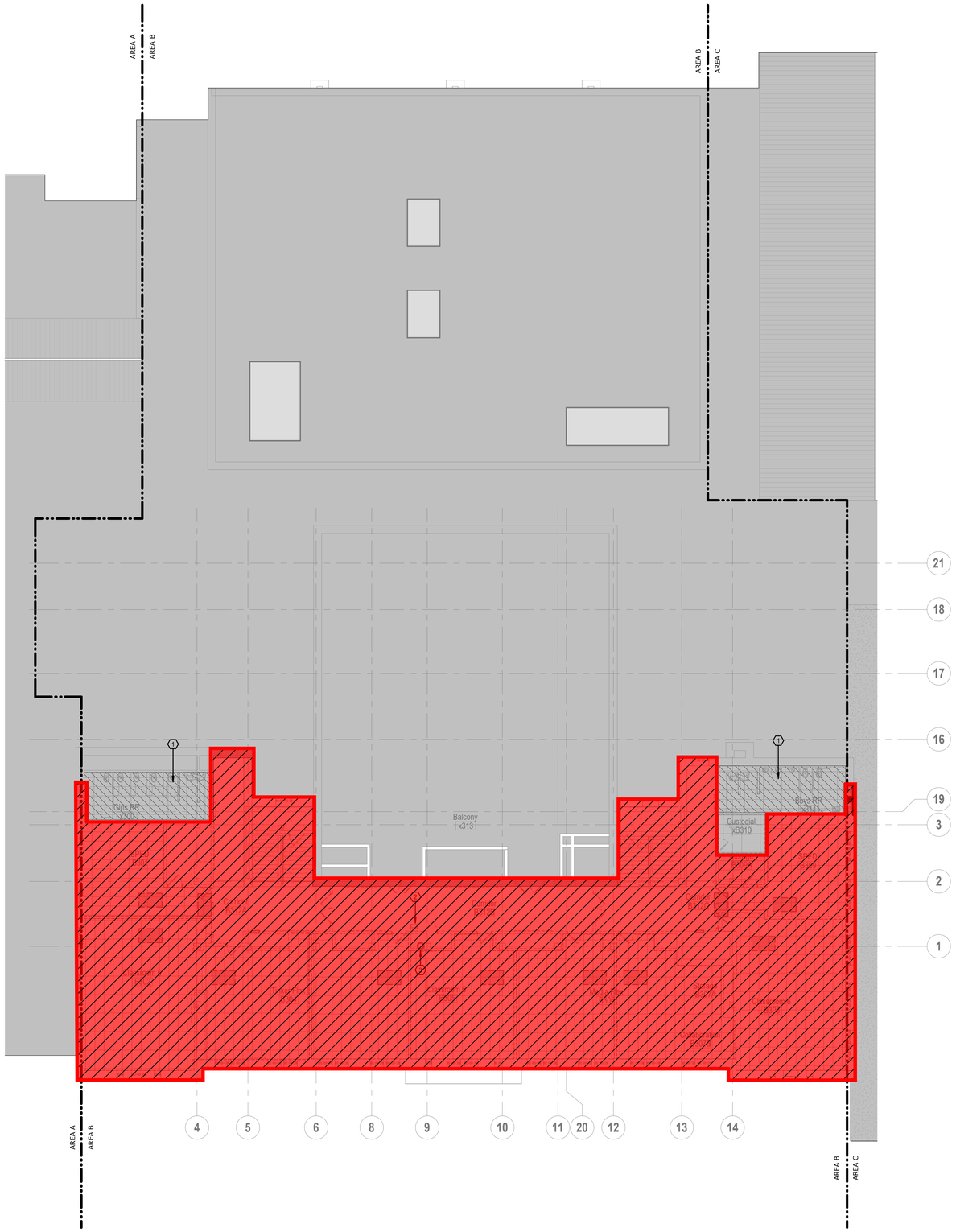

A1 | Scale 3/32" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DP001A.

PLAN NOTES:

1. ALL WATER CLOSETS, LAVATORIES, URINALS AND FLOOR DRAINS ARE EXISTING TO REMAIN WITHIN HATCHED AREA.
2. DISCONNECT AND REMOVE EXISTING DRINKING FOUNTAIN.
3. EXISTING PLUMBING PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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REVISIONS:

#	Description	Date

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project number 2314708

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RYAN JEROD DIEDIKER
NUMBER
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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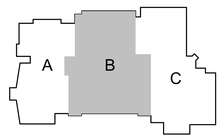
KEY PLAN



JOB NO: 23024
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DP103B

DEMOLITION PLUMBING PLAN - LEVEL 3 - AREA B

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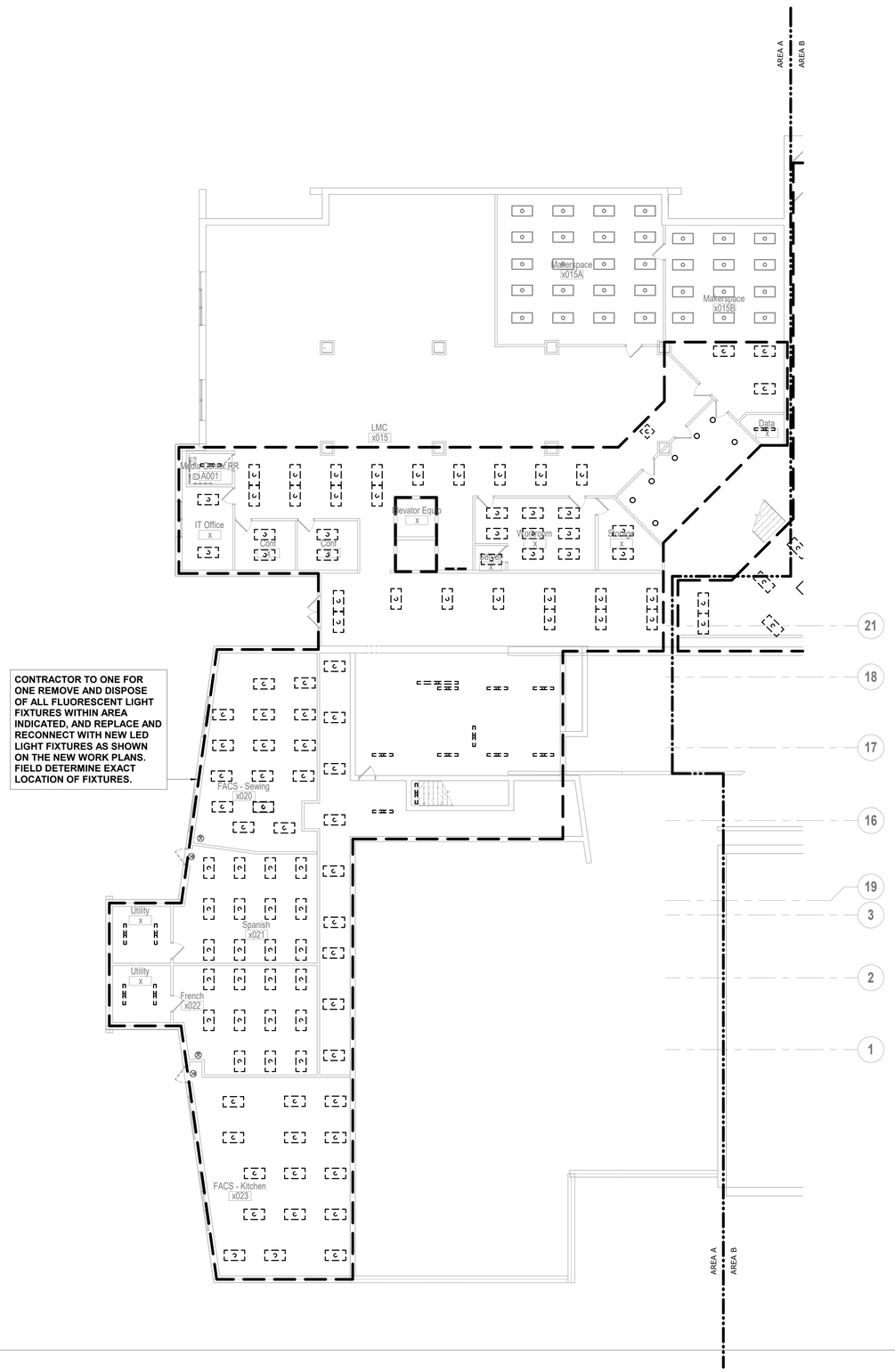

CONTRACTOR TO ONE FOR ONE REMOVE AND DISPOSE OF ALL FLUORESCENT LIGHT FIXTURES WITHIN AREA INDICATED, AND REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES AS SHOWN ON THE NEW WORK PLANS. FIELD DETERMINE EXACT LOCATION OF FIXTURES.

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
2. DARK DASHED LINES INDICATE ELECTRICAL EQUIPMENT THAT SHALL BE REMOVED. LIGHT SOLID LINES REPRESENT EXISTING EQUIPMENT OR MATERIAL TO REMAIN, EXCEPT WHERE OTHERWISE NOTED.

   EXISTING
   DEMO
3. DISCONNECT AND REMOVE ALL CABLING, WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED. DISCONNECT AND REMOVE ALL WIRING BACK TO PANELBOARDS THAT BECOME UNNECESSARY DUE TO REMODEL. DISCONNECT AND REMOVE ALL UNUSED CIRCUITS. PROVIDE FOR THE CONTINUITY OF ALL REMAINING SYSTEMS AND CIRCUITS.
4. PATCH STRUCTURAL OPENINGS TO MATCH EXISTING WHERE MECHANICAL/ELECTRICAL DEVICES THAT PENETRATE FLOORS AND WALLS ARE DEMOLISHED. RE: ARCH FOR PATCH DETAIL.
5. ELECTRICAL CONTRACTOR TO REMOVE LIGHT FIXTURES AND EXIT SIGNS INDICATED ON THE DRAWINGS. REMOVE EXISTING CIRCUITING BACK TO NEAREST AVAILABLE JUNCTION BOX AND RETAIN FOR EXTENSION TO NEW LIGHTING FIXTURE LOCATIONS. SALVAGE ALL LIGHT FIXTURES AND EXIT SIGNS FOR REINSTALLATION IN NEW LOCATIONS.
6. ELECTRICAL CONTRACTOR TO REMOVE ALL ELECTRICAL DEVICES FROM EXISTING WALLS TO BE DEMOLISHED. PROVIDE RE-WIRING AS REQUIRED TO MAINTAIN ELECTRICAL CONNECTIONS TO ADJACENT EXISTING DEVICES TO REMAIN.
7. FIRE ALARM CONTRACTOR TO FULLY REMOVE EXISTING FIRE ALARM SYSTEM, ASSOCIATED DEVICES, PANELS, AND CABLING. REMOVE ALL CONDUIT WHERE POSSIBLE. PROVIDE BLANK WALL PLATES WHERE DEVICES HAVE BEEN REMOVED IN FINISH AREA. NEW WORK SHALL INCLUDE A FULL BUILDING VOICE EVACUATION FIRE ALARM SYSTEM.
8. ELECTRICAL CONTRACTOR TO REMOVE, COMMUNICATIONS OUTLETS, POKE THROUGH FITTINGS, AND CABLING BACK TO COMMUNICATIONS CLOSET WHERE NOTED. PATCH AND REPAIR ANY WALLS WHERE NEW DEVICES DO NOT REPLACE EXISTING. BLANK FACEPLATES ARE PROHIBITED.
9. AT THE COMPLETION OF THE PROJECT CONTRACTOR SHALL PROVIDE UPDATED TYPEWRITTEN PANEL BOARD REGISTRIES FOR ALL PANELBOARDS UTILIZED IN THIS PROJECT.

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REVISIONS:

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015008814
PROFESSIONAL ENGINEER
12/7/23

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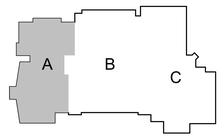
KEY PLAN



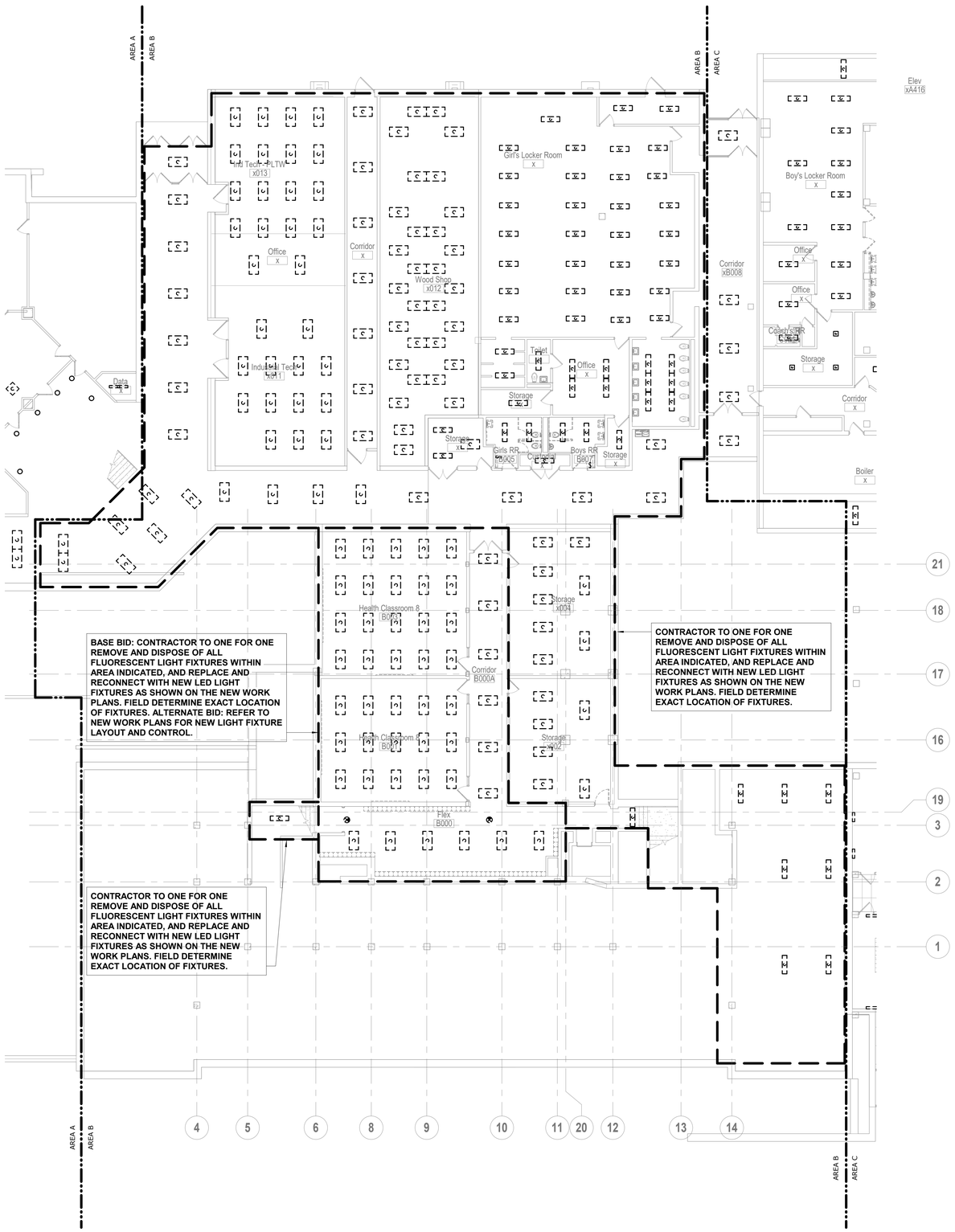
DE100A

A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008171
REGISTERED PROFESSIONAL ENGINEER
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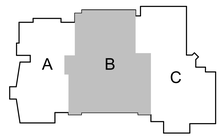

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CHECKED BY: RJD
DATE: 12.07.2023

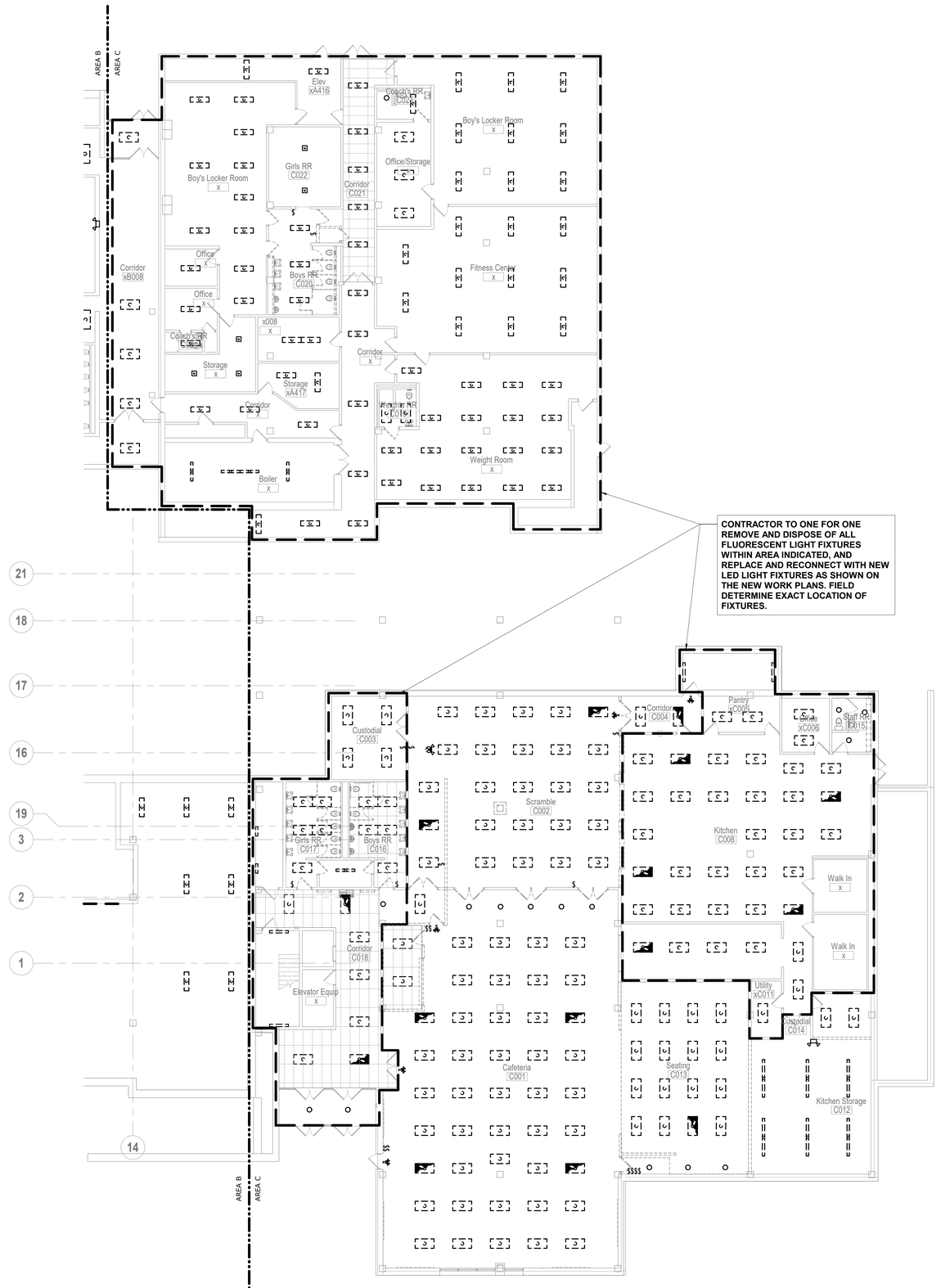
DE100B

A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA B

Please consider the environment before printing this.

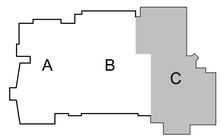


SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

KEY PLAN



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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008711
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DE100C

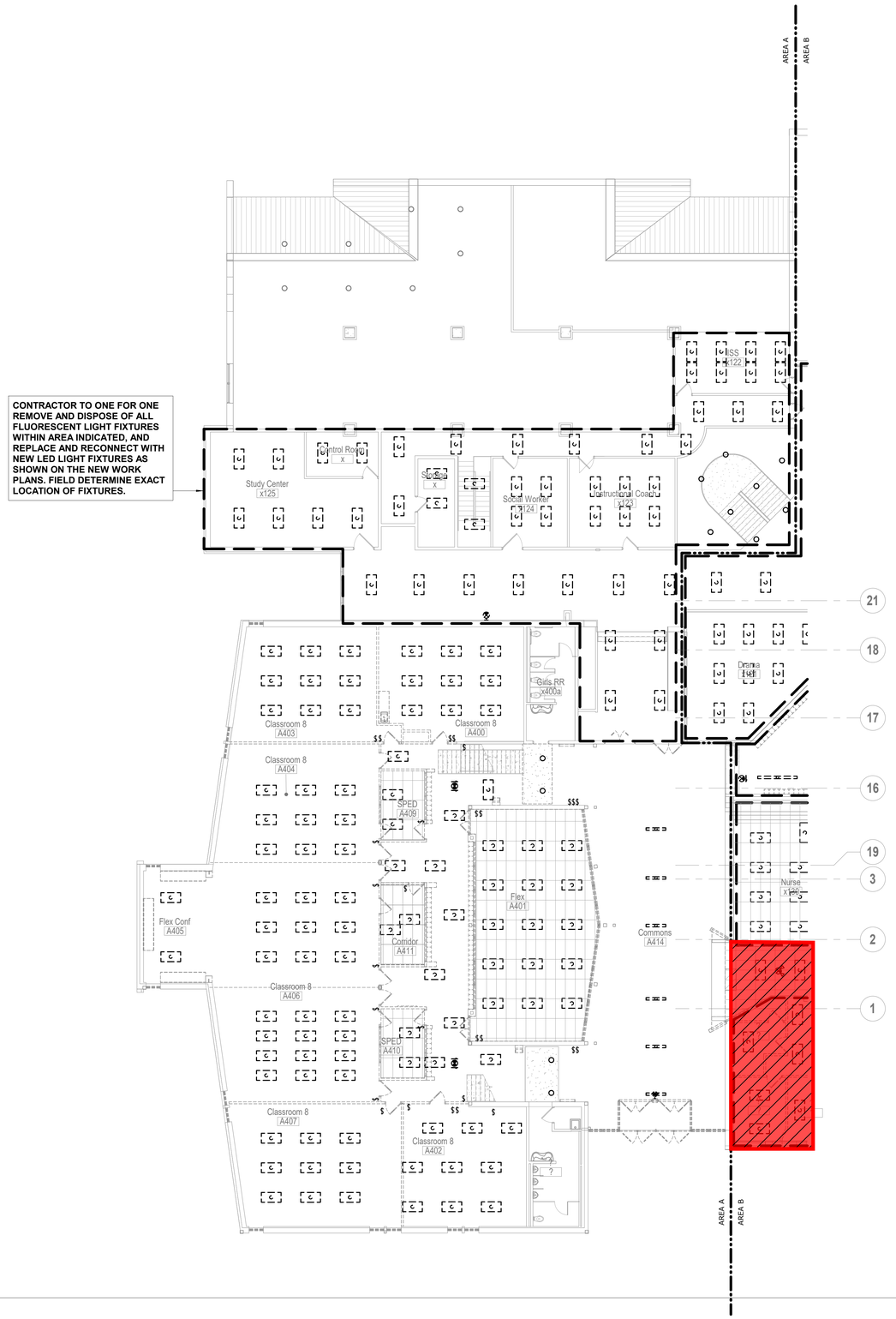
A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION LIGHTING PLAN - LEVEL 0 - AREA C

Please consider the environment before printing this.

CONTRACTOR TO ONE FOR ONE REMOVE AND DISPOSE OF ALL FLUORESCENT LIGHT FIXTURES WITHIN AREA INDICATED, AND REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES AS SHOWN ON THE NEW WORK PLANS. FIELD DETERMINE EXACT LOCATION OF FIXTURES.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

= Phase 2 Scope of Work
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Heritage Middle School Renovations

Liberty Public Schools

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Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314708

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REGISTERED PROFESSIONAL ENGINEER
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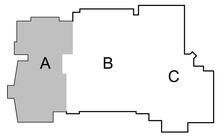
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

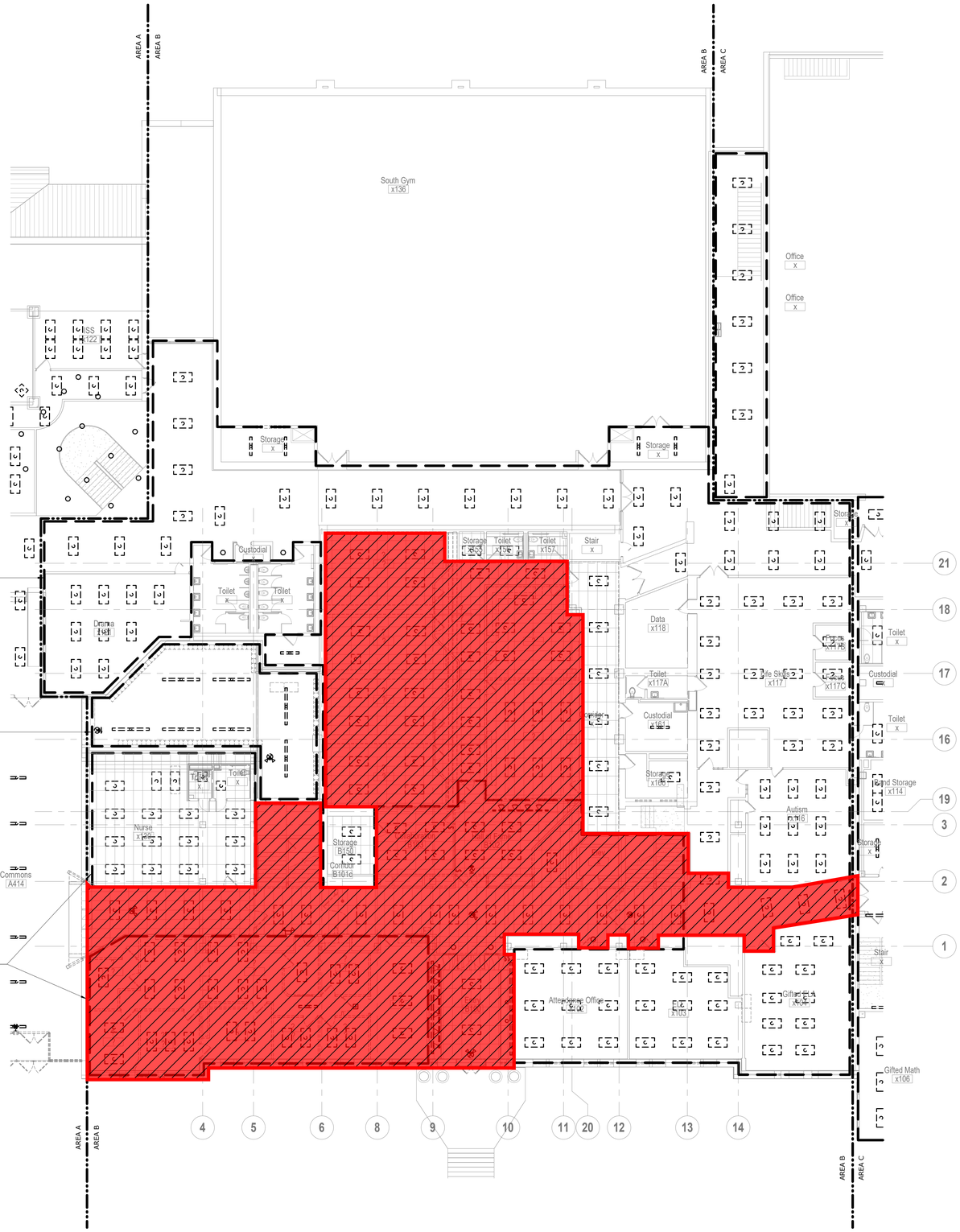
DE101A

A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



CONTRACTOR TO ONE FOR ONE REMOVE AND DISPOSE OF ALL FLUORESCENT LIGHT FIXTURES WITHIN AREA INDICATED, AND REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES AS SHOWN ON THE NEW WORK PLANS. FIELD DETERMINE EXACT LOCATION OF FIXTURES.

BASE BID: CONTRACTOR TO ONE FOR ONE REMOVE AND DISPOSE OF ALL FLUORESCENT LIGHT FIXTURES WITHIN AREA INDICATED, AND REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES AS SHOWN ON THE NEW WORK PLANS. FIELD DETERMINE EXACT LOCATION OF FIXTURES.
ALTERNATE BID: REFER TO NEW WORK PLANS FOR NEW LIGHT FIXTURE LAYOUT AND CONTROL.

CONTRACTOR TO ONE FOR ONE REMOVE AND DISPOSE OF ALL FLUORESCENT LIGHT FIXTURES WITHIN AREA INDICATED, AND REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES AS SHOWN ON THE NEW WORK PLANS. FIELD DETERMINE EXACT LOCATION OF FIXTURES.

A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA B

PROJECT NORTH | TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

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Heritage Middle School Renovations
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REVISIONS:

#	Description	Date

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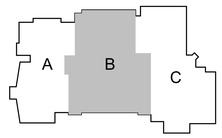

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DRAWN BY: SBI
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DATE: 12.07.2023

DE101B

DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA B

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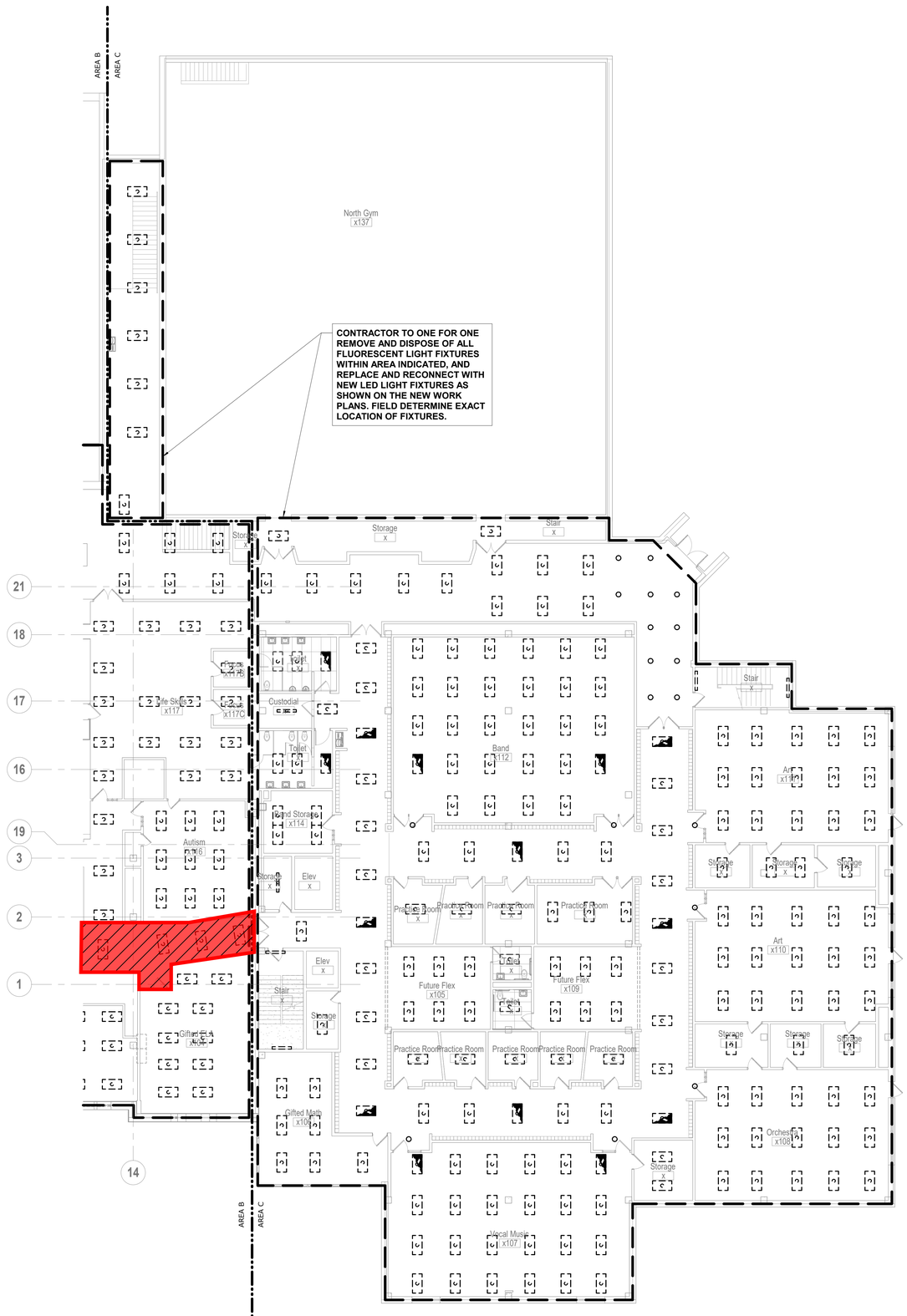

A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA C

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

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Heritage Middle School Renovations

Liberty Public Schools

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
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REGISTERED PROFESSIONAL ENGINEER
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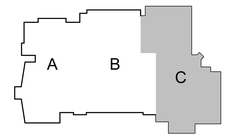
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DE101C

DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA C

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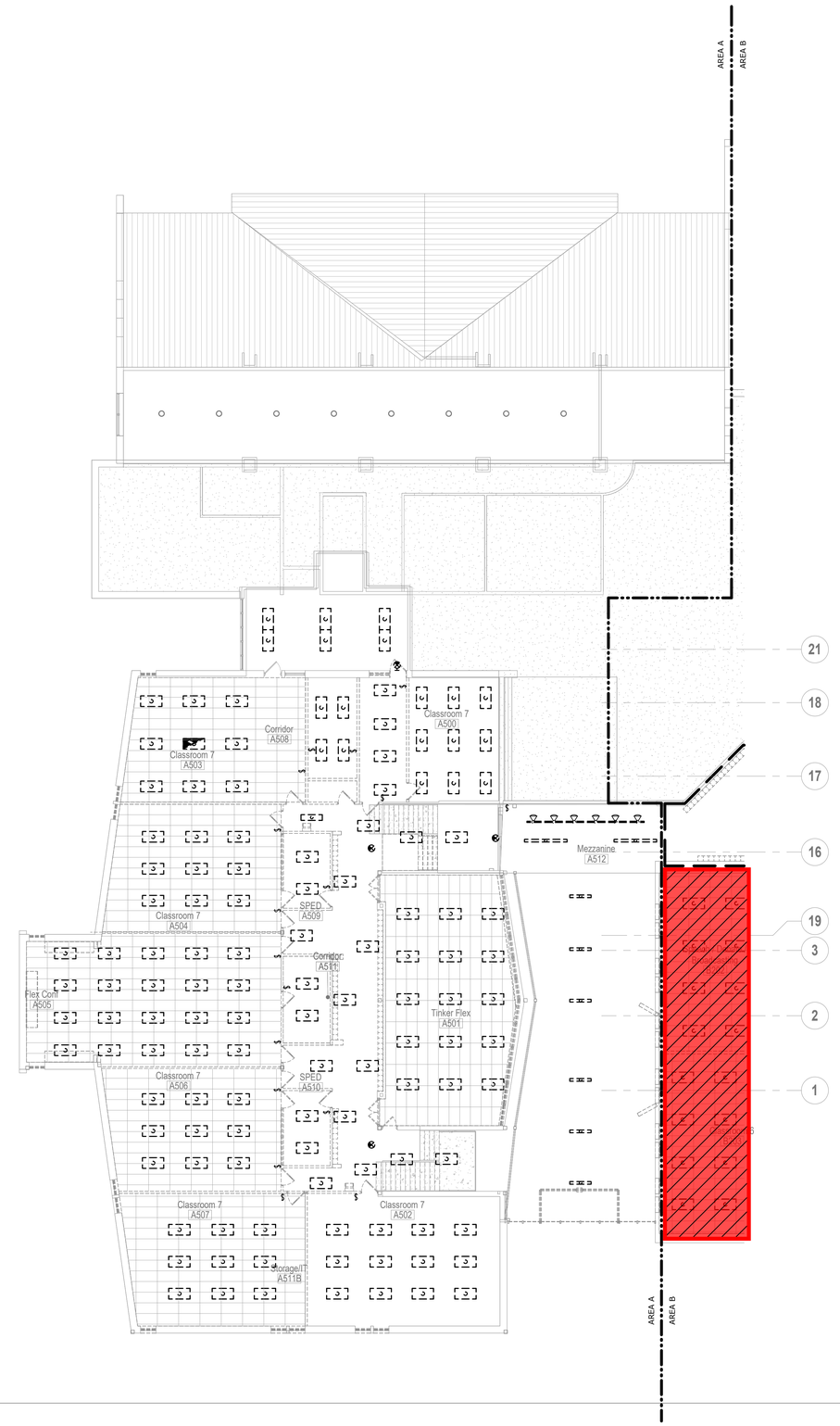

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

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REVISIONS:

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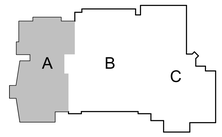
KEY PLAN



DE102A

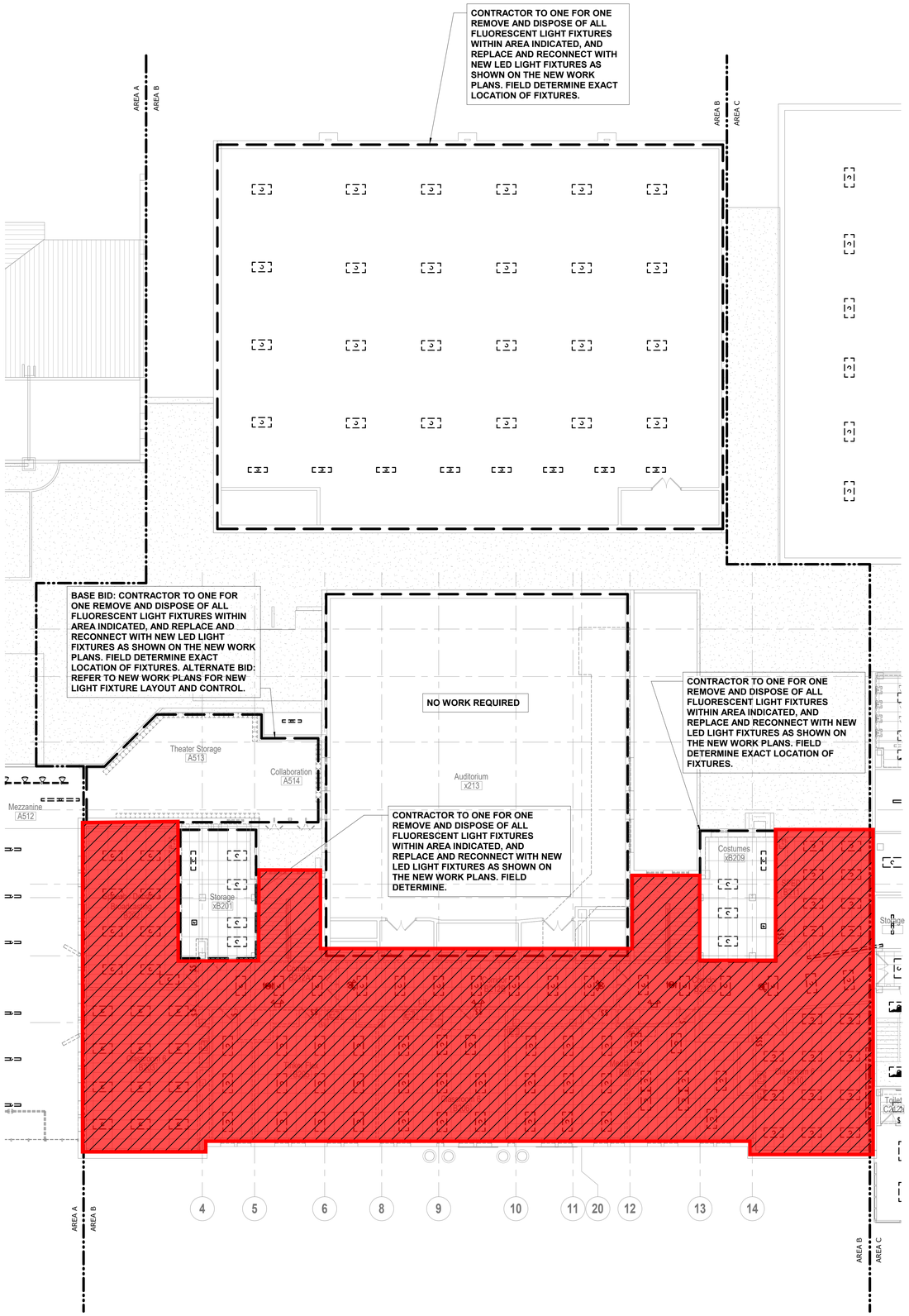
PROJECT NORTH TRUE NORTH

A1 Scale 3/32" = 1'-0"

DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA A

DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

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REVISIONS:

#	Description	Date

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NUMBER PE-2015008774
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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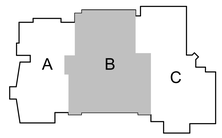
KEY PLAN



JOB NO: 23024
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DATE: 12.07.2023

DE102B

A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA B

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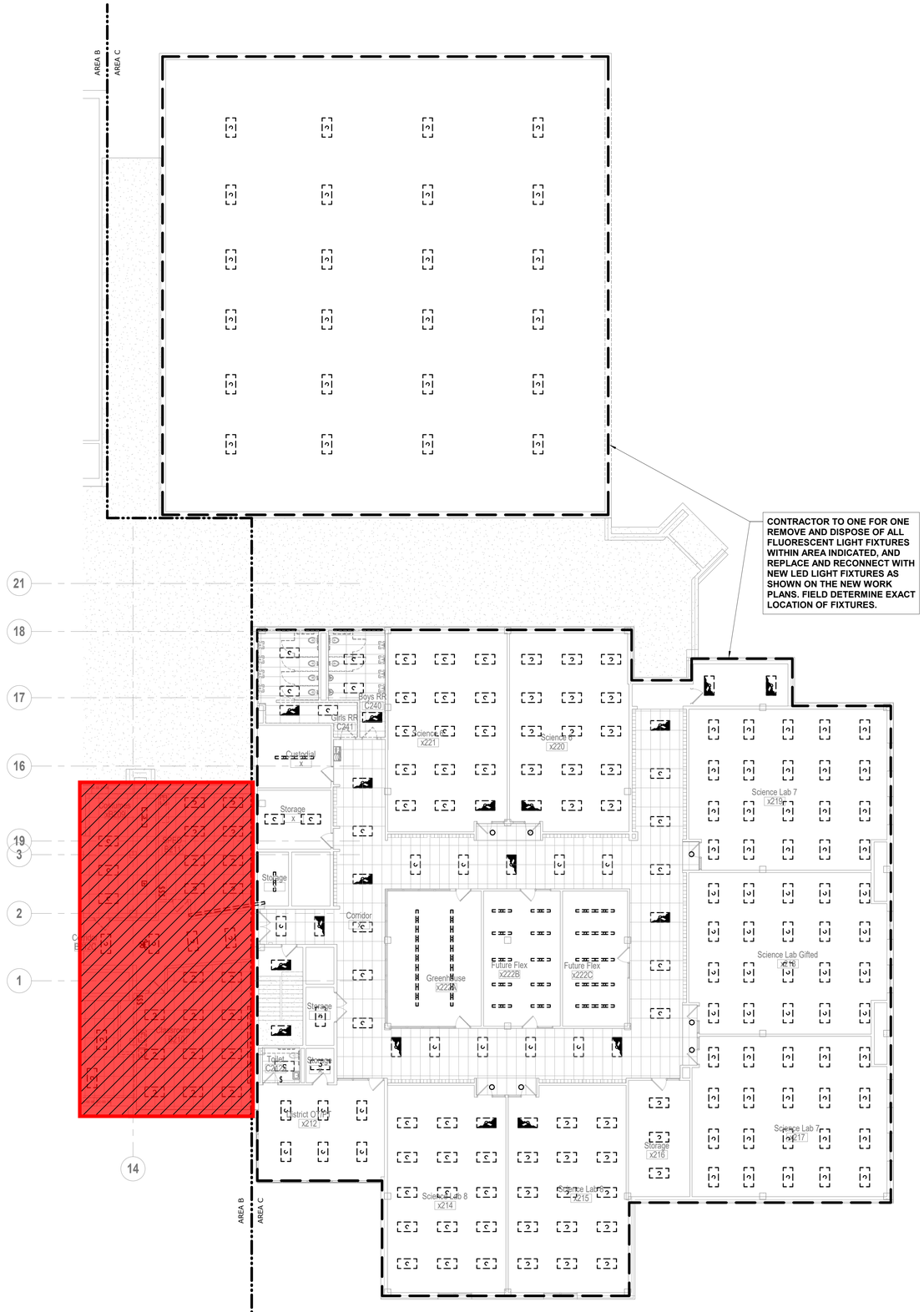

SHEET KEYNOTE LEGEND

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100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015040814
ENGINEER
12/7/23

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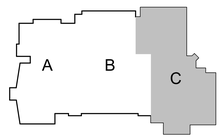
DATE: 12.07.2023

KEY PLAN



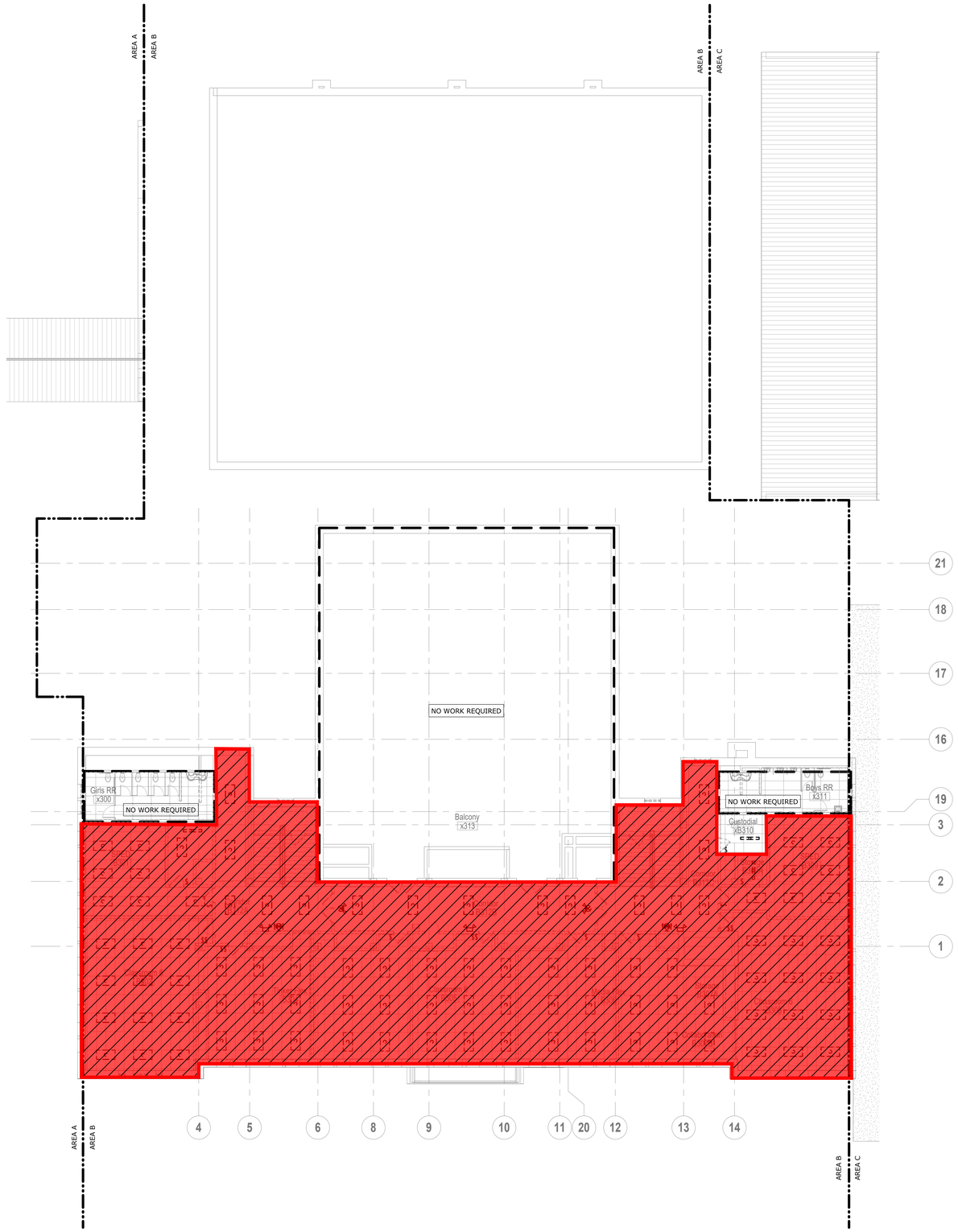
DE102C

A1 | Scale 3/32" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION LIGHTING PLAN - LEVEL 2 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

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REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015040171
PROFESSIONAL ENGINEER
12/7/23

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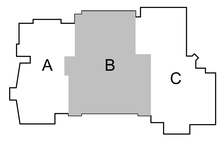
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DE103B

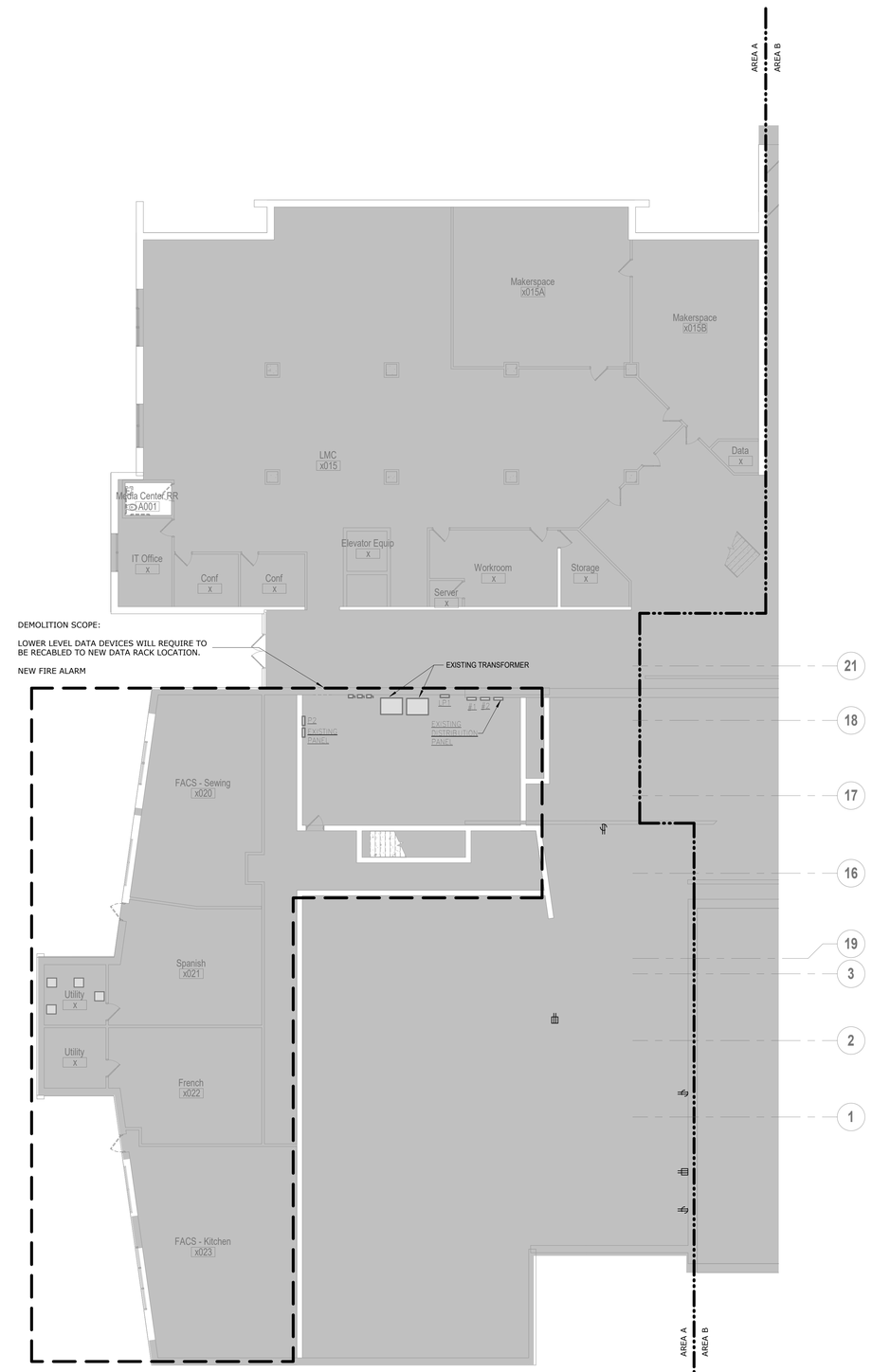
A1 Scale 3/32" = 1'-0"

DEMOLITION LIGHTING PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION LIGHTING PLAN - LEVEL 3 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

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100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006871
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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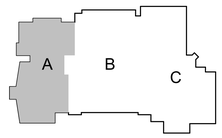
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

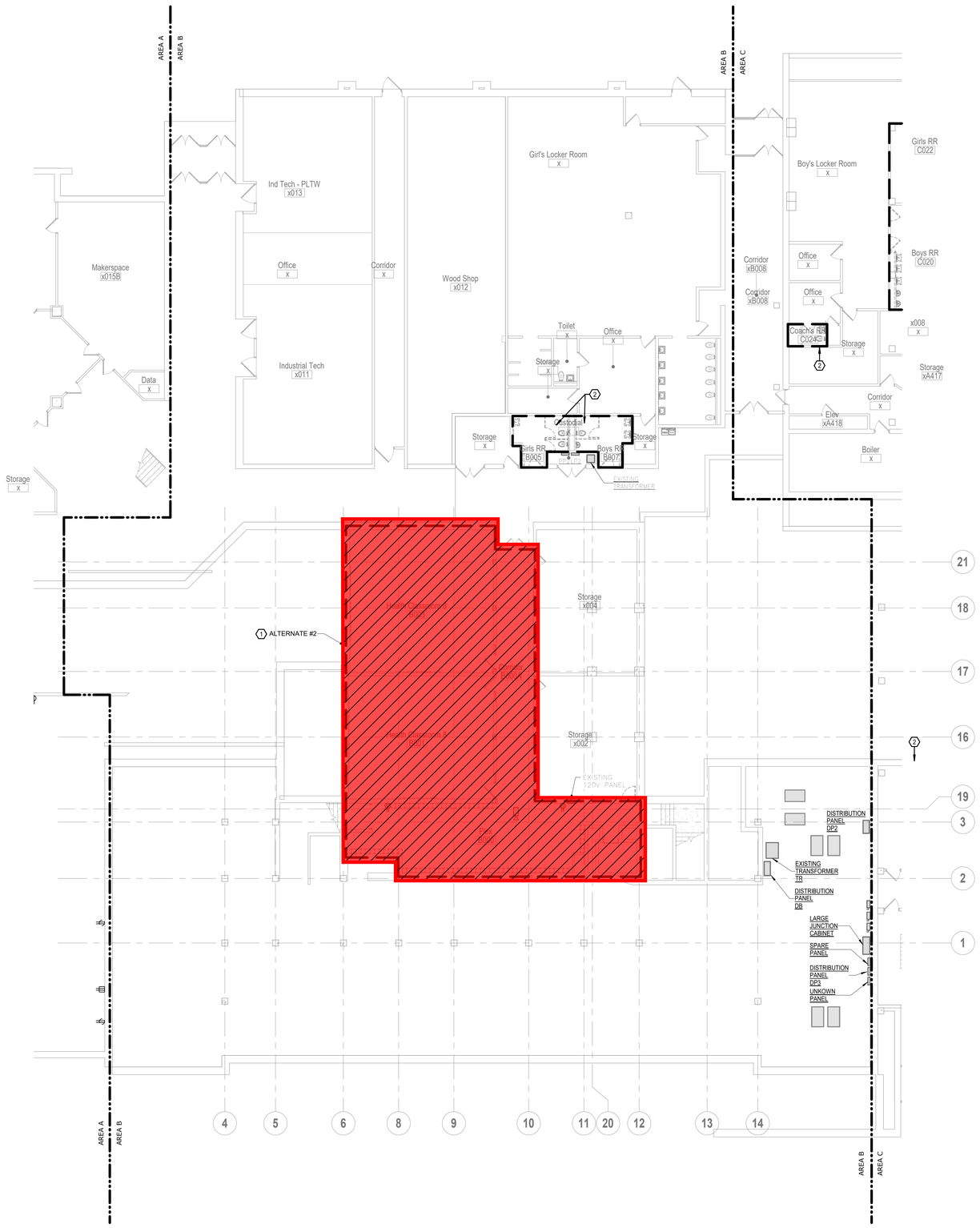
DE200A

A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 0 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN DEMOLITION NOTES:

(1) REFER TO NEW WORK PLANS FOR DEVICE REPLACEMENT IN ALTERNATE WORK AREA.

(2) REFER TO NEW WORK PLANS FOR RECEPTACLE REPLACEMENT IN RESTROOM(S).

= Phase 2 Scope of Work
(Not included in this Bid Package)

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REVISIONS:

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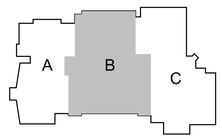
project number 2314708

KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DE200B

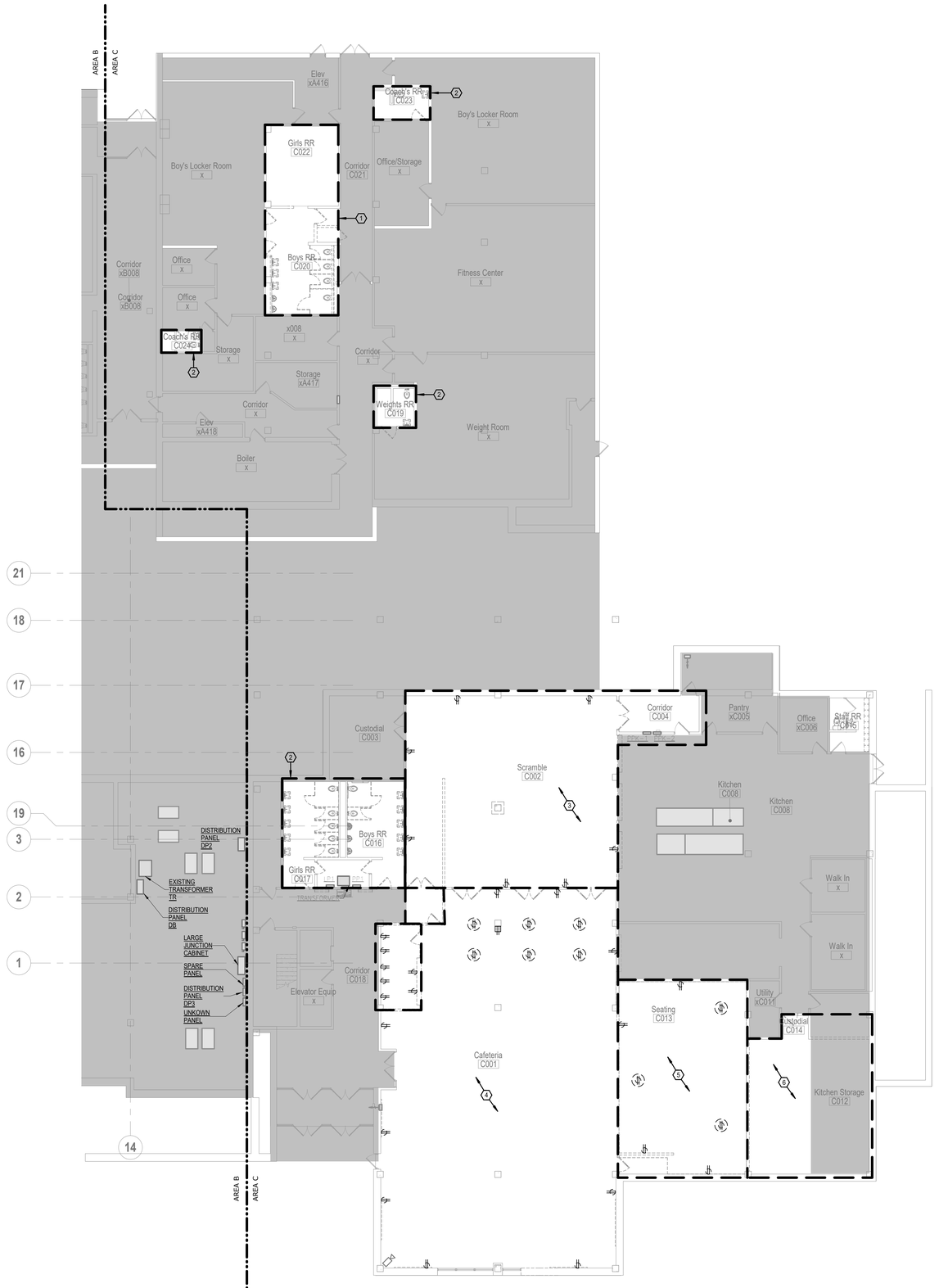
A1 Scale 3/32" = 1'-0"

DEMOLITION POWER PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 0 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN DEMOLITION NOTES:

1. PROVIDE DEMOLITION OF ALL POWER AND LOW VOLTAGE IN THIS AREA TO ACCOMMODATE NEW RESTROOMS.
2. REFER TO NEW WORK PLANS FOR RECEPTACLE REPLACEMENT IN RESTROOM(S).
3. PROVIDE DEMOLITION OF ALL POWER AND LOW VOLTAGE IN SCRAMBLE AREA. SALVAGE CONDUIT RACEWAYS AND BACK BOXES WHERE SHOWN TO BE REUSED PER NEW WORK PLANS, OR FIELD DETERMINED BY THE CONTRACTOR TO BE OF USE FOR NEW WORK. SALVAGE CIRCUIT BREAKER FOR REUSE WHERE POSSIBLE. FIELD DETERMINE EXACT EXTENTS OF DEMOLITION.
4. PROVIDE DEMOLITION OF ALL POWER AND LOW VOLTAGE IN CAFETERIA AREA. SALVAGE CONDUIT RACEWAYS AND BACK BOXES WHERE SHOWN TO BE REUSED PER NEW WORK PLANS, OR FIELD DETERMINED BY THE CONTRACTOR TO BE OF USE FOR NEW WORK. SALVAGE CIRCUIT BREAKERS FOR REUSE WHERE POSSIBLE. FIELD DETERMINE EXACT EXTENTS OF DEMOLITION.
5. PROVIDE DEMOLITION OF ALL POWER AND LOW VOLTAGE IN SEATING AREA. SALVAGE CIRCUIT BREAKERS FOR REUSE WHERE POSSIBLE. FIELD DETERMINE EXACT EXTENTS OF DEMOLITION.
6. PROVIDE DEMOLITION AS REQUIRED IN STORAGE AREA TO ACCOMMODATE NEW WORK. FIELD DETERMINE EXACT REQUIREMENTS.

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REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006171
ENGINEER
12/7/23

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JOB NO: 23024
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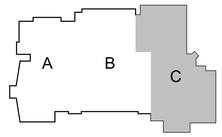
KEY PLAN



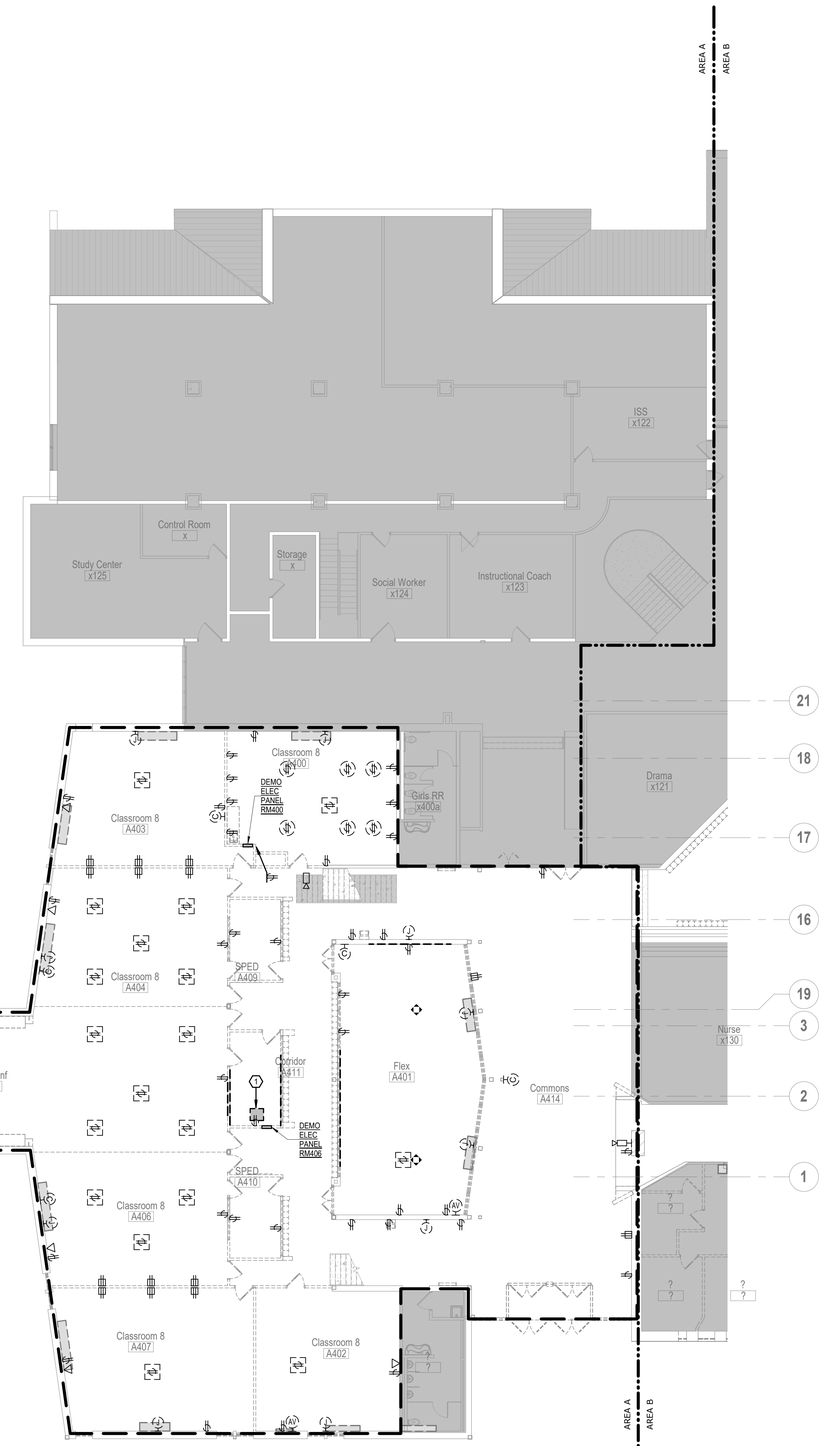
DE200C

A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 0 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN DEMOLITION NOTES:

(1) EXISTING I.T. RACK (IDF-1) TO BE REMOVED AND RELOCATED PER NEW WORK PLANS. ALL ASSOCIATED CABLING TO BE DEMO'ED TO ASSOCIATED COMMUNICATION DEVICES. FIBER SERVING RACK FROM MAIN TELECOMM ROOM MDF TO BE FULLY REMOVED. COORDINATE WITH DISTRICT REPRESENTATIVE.

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REVISIONS:

#	Description	Date

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006871
ENGINEER
PROFESSIONAL
12/7/23

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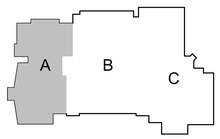
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

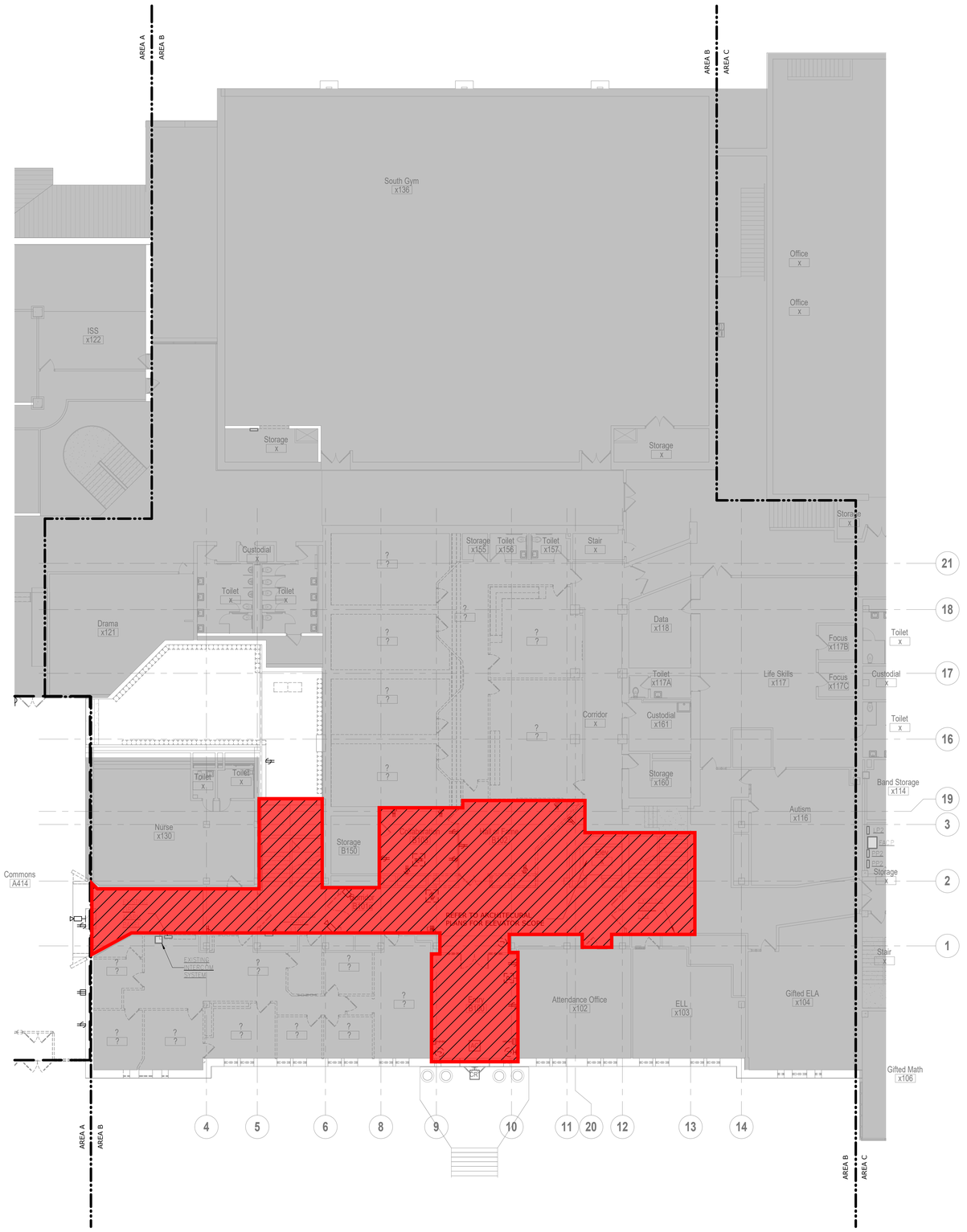
DE201A

A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

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Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314708

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NUMBER 2015008171
ENGINEER
PROFESSIONAL
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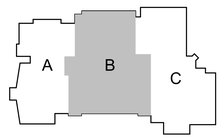

JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DE201B

A1 Scale 3/32" = 1'-0"

DEMOLITION POWER PLAN - LEVEL 1 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 1 - AREA B

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SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

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RYAN JEROD DIEDIKER
NUMBER 2015036134
PROFESSIONAL ENGINEER
12/7/23

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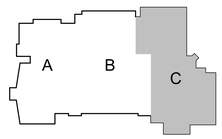
KEY PLAN



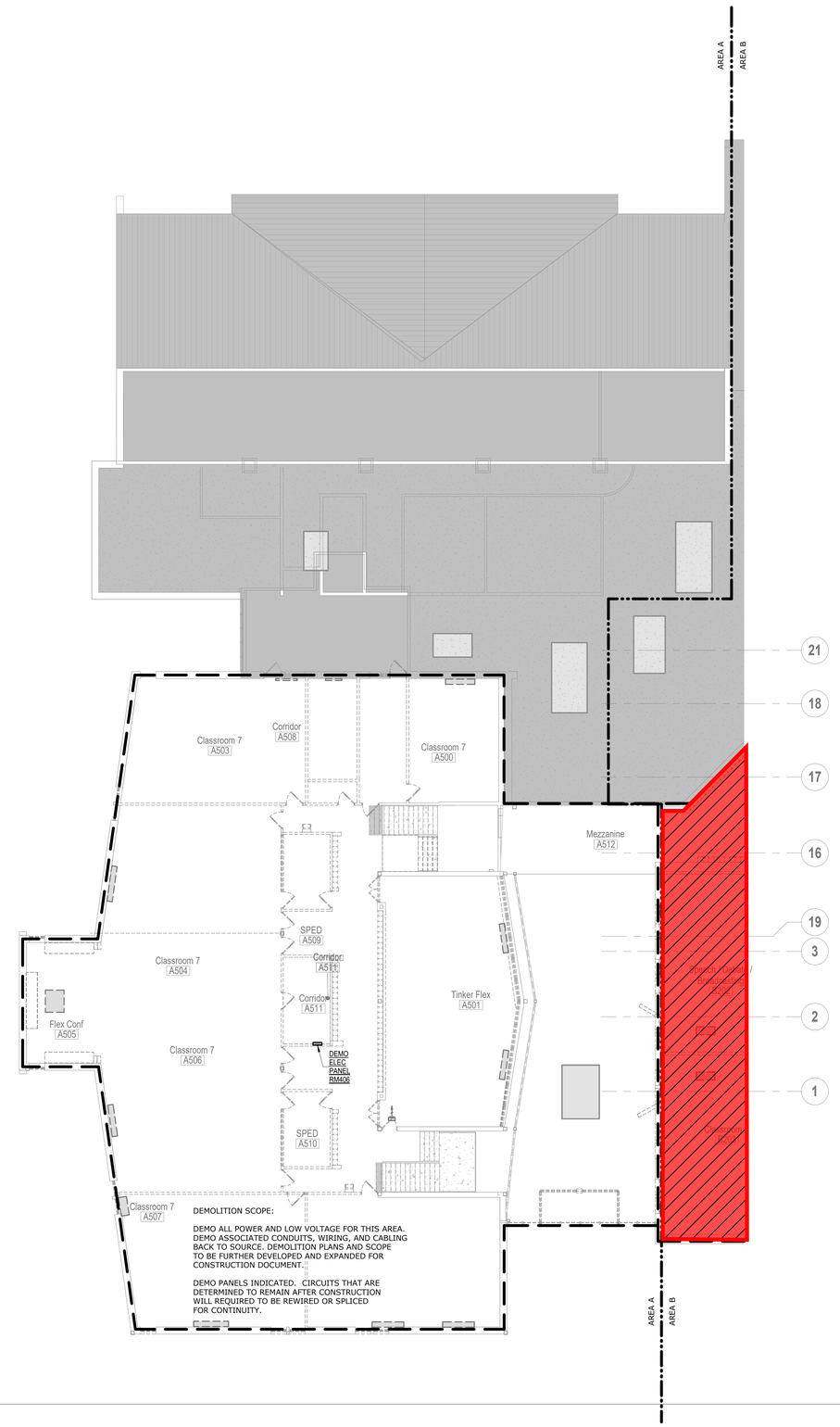
DE201C

A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 1 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 1 - AREA C

Please consider the environment before printing this.



DEMOLITION SCOPE:

DEMO ALL POWER AND LOW VOLTAGE FOR THIS AREA. DEMO ASSOCIATED CONDUITS, WIRING, AND CABLING BACK TO SOURCE. DEMOLITION PLANS AND SCOPE TO BE FURTHER DEVELOPED AND EXPANDED FOR CONSTRUCTION DOCUMENT.

DEMO PANELS INDICATED. CIRCUITS THAT ARE DETERMINED TO REMAIN AFTER CONSTRUCTION WILL REQUIRED TO BE REWIRED OR SPLICED FOR CONTINUITY.

A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

= Phase 2 Scope of Work (Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

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REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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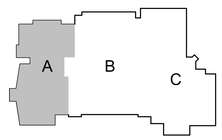

JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DE202A

DEMOLITION POWER PLAN - LEVEL 2 - AREA A

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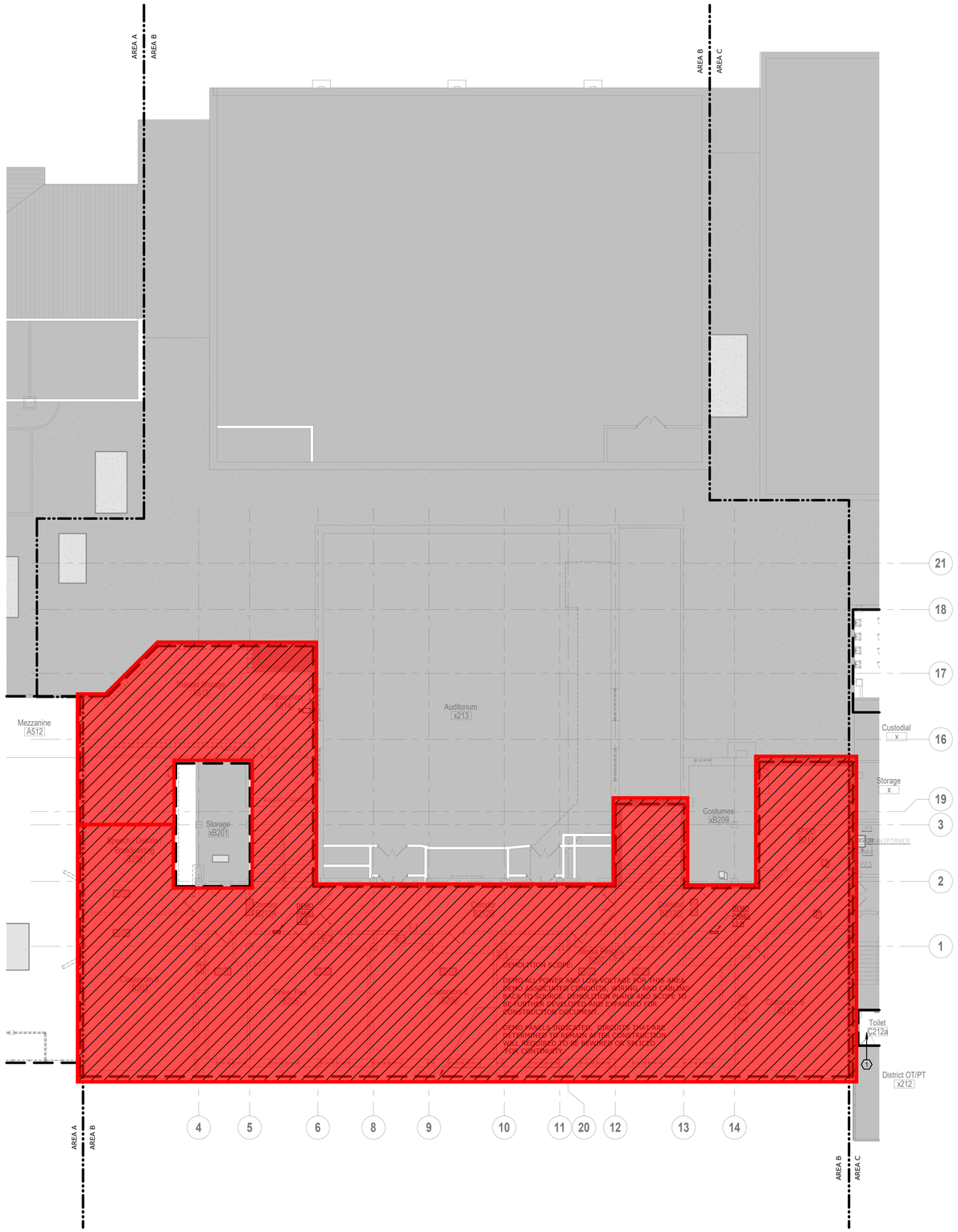

SHEET KEYNOTE LEGEND

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= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER A-2015006171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

smith & boucher engineers
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phone 913.345.2127 fax 913.345.0617
project number 2314708

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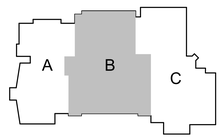


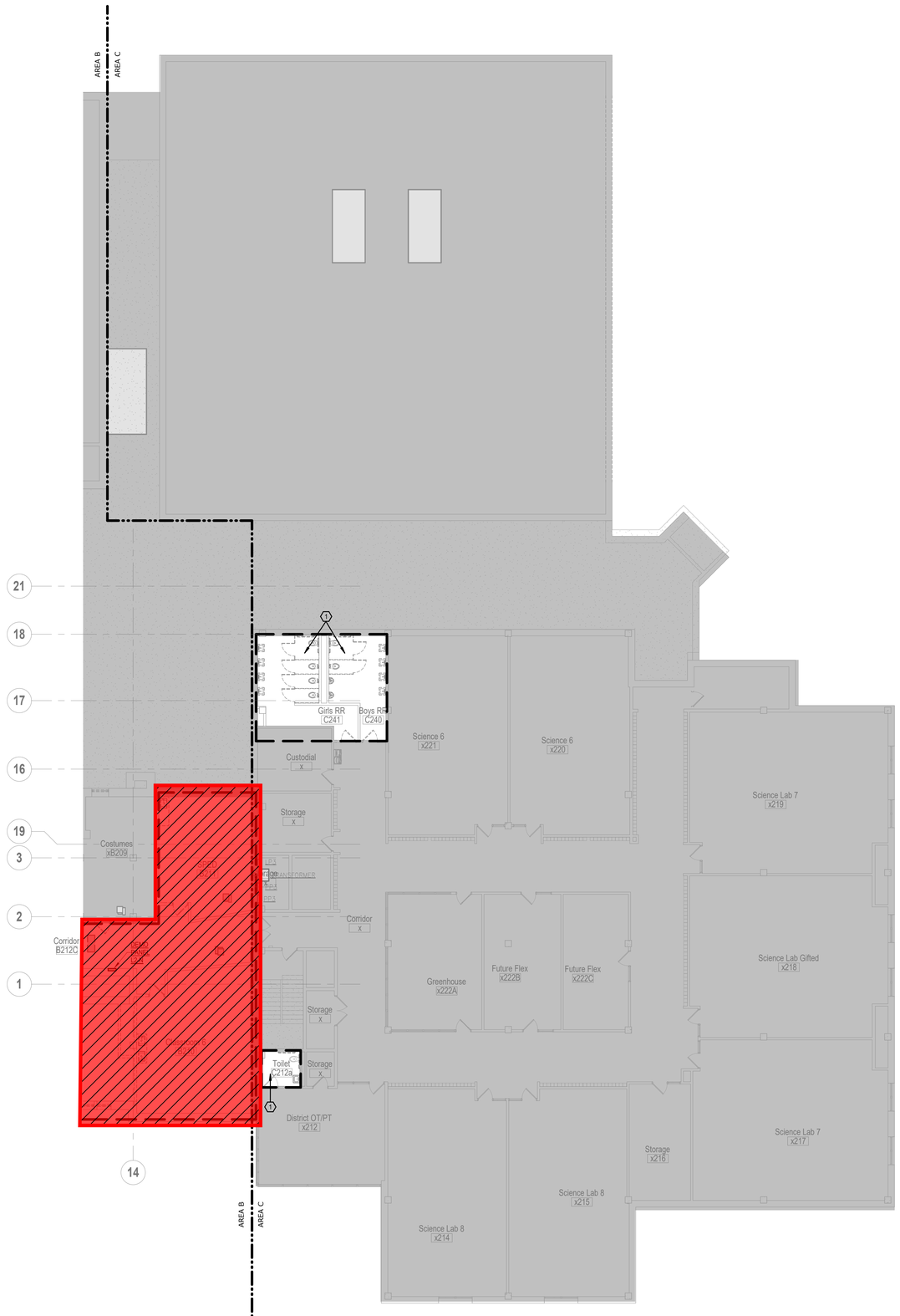
DE202B

A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 2 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

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PLAN DEMOLITION NOTES:

(1) REFER TO NEW WORK PLANS FOR RECEPTACLE REPLACEMENT IN RESTROOM(S).

= Phase 2 Scope of Work
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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008778
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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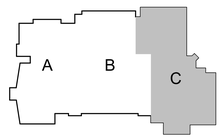
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

DE202C

A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 2 - AREA C

PROJECT NORTH TRUE NORTH

DEMOLITION POWER PLAN - LEVEL 2 - AREA C

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DE100A FOR GENERAL DEMOLITION NOTES APPLICABLE TO THE ENTIRE PROJECT.

= Phase 2 Scope of Work (Not included in this Bid Package)

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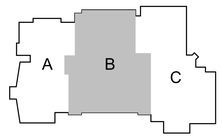

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DE203B

DEMOLITION POWER PLAN - LEVEL 3 - AREA B

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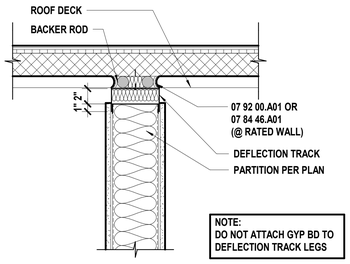
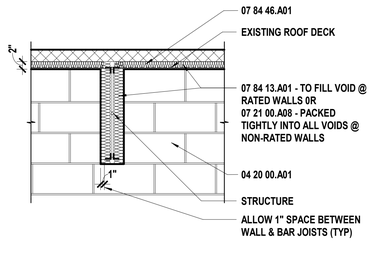
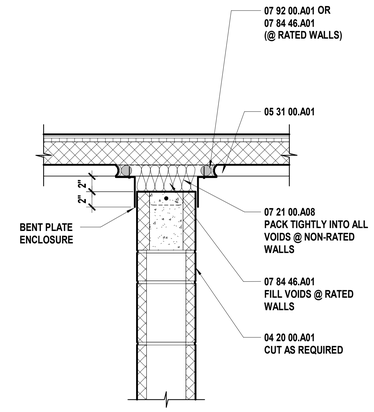


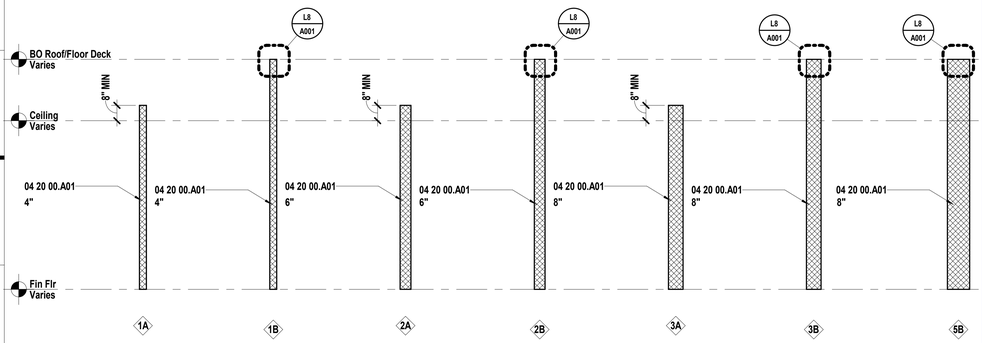
L1	Scale	Gyp/Stud Wall @ Roof Deck
	1 1/2" = 1'-0"	



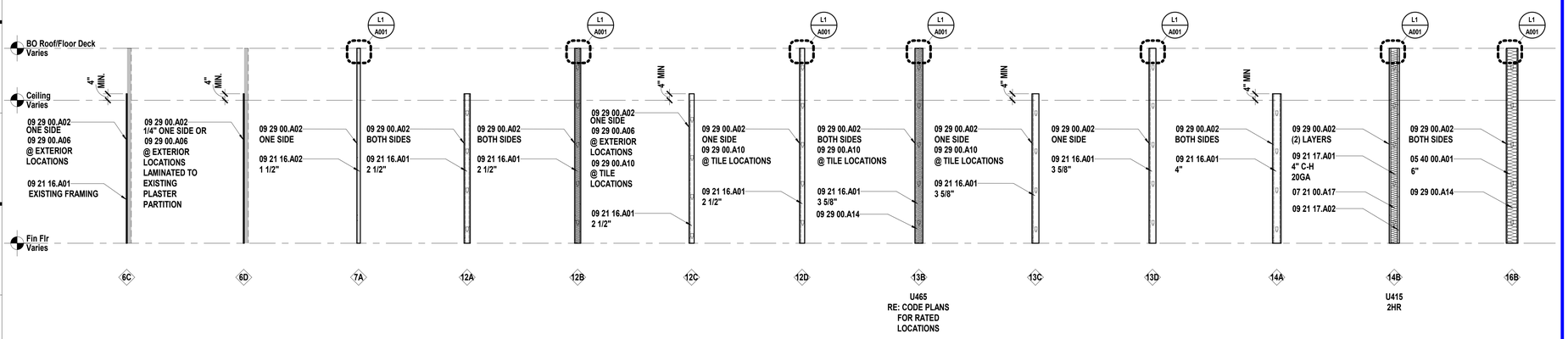
L4	Scale	Structural Joist Penetration @ Rated & Non-Rated Walls
	3/4" = 1'-0"	



L8	Scale	CMU Wall Termination @ Roof Deck
	1 1/2" = 1'-0"	



F1	Scale	Interior Wall Types - CMU
	3/8" = 1'-0"	



A1	Scale	Interior Wall Types - Metal Stud
	3/8" = 1'-0"	

SHEET KEYNOTE LEGEND

04 20 00.A01	CONCRETE MASONRY UNITS
05 31 00.A01	ROOF DECK
05 40 00.A01	COLD-FORMED METAL FRAMING
07 21 00.A08	UNFACED GLASS FIBER BLANKET INSULATION
07 21 00.A17	MINERAL WOOL
07 84 13.A01	FIRESTOPPING
07 84 46.A01	FIRE RESISTIVE JOINT SYSTEM
07 92 00.A01	SEALANT
09 21 16.A01	NON-STRUCTURAL FRAMING
09 21 16.A02	HAT-SHAPED RIGID FURRING CHANNELS
09 21 17.A01	SHAFT-WALL ASSEMBLY
09 21 17.A02	GYPSUM LINER PANELS
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A06	MOLD AND MOISTURE RESISTANT GYPSUM BOARD
09 29 00.A10	CEMENTITIOUS BACKER UNITS
09 29 00.A14	SOUND ATTENUATION BLANKETS

SYMBOL LEGEND

- BRICK (in section)
- CONCRETE MASONRY UNIT - CMU (in section)
- CONCRETE (in section)
- GYP BD (in section)
- PLYWOOD (in section)
- RIGID INSUL & EIFS (in section)
- BATT INSUL (in section)
- ACOUSTICAL TILE (in section)
- STUCCO (in section)
- SOIL
- SAND
- CONTINUOUS LUMBER
- BLOCKING/SHIM
- FINISH LUMBER/ HARDWOOD
- STEEL OR METAL

Classroom A101 — RM NAME / RM NUMBER

A123 — DOOR NUMBER

A — WALL TYPE

A — FRAME TYPE

1 — GLASS TYPE

A10 / A000 — SECTION CUT LINE

A1 / N1 / A001 / E1 / J1 — ELEVATION SYMBOL / ELEV NUMBER / SHEET NUMBER

A9 / A120 — ENLARGED DETAIL

Joist Bearing 100'-0" — DATUM MARKER

AREA "A" / AREA "B"

MATERIAL JOINT

BUILDING EXPANSION JOINT

ABBREVIATIONS

A

ACT	acoustical
ADJ	adjustable/adjacent
AFF	above finish floor
ALUM	aluminum
ALT	alternate
ANOD	anodized
APPROX	approximate(ly)
ARCH	architect(ural)

B

BLDG	building
BLKG	blocking
BM	beam
BOT	bottom of
BRG	bearing
BRKT	bracket
BTM	bottom
BSMT	basement
BTWN	between

C

CAB	cabinet
CC	center to center
CEM	cement(itious)
CG	corner guard
CJ	control joint
CLG	ceiling
CLR	clear(ance)
CM	contruction manager
CMU	concrete masonry unit
COL	column
CONC	concrete
CONST	construction
CONT	continuous
CTR	center
CY	cubic yard(s)

D

DF	drinking fountain
DIA	diameter
DIM	dimension(s)
DN	down
DS	downspout
DTL	detail
DWG	drawing

E

E	east
EA	each
EF	each face
EIFS	exterior insulation finish system
EJ	expansion joint
ELEC	electrical
ELEV	elevation
EQ	equal
EQUIP	equipment
ETR	existing to remain
EW	each way
EXIST	existing
EXP	expansion
EXT	exterior

F

FA	fire alarm
FD	floor drain
FND	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FF	finish floor
FH	fire hose
FIN	finish(ed)
FIXT	fixture
FLR	floor
FLEX	flexible
FOM	face of masonry
FOPC	face of precast
FOS	face of stud
FT (')	foot
FTG	footing
FV	field verify

G

GA	gauge
GALV	galvanized
GC	general contractor
GEN	general
GL	glass
GR	grade
GYP	gypsum
GYP BD	gypsum board

H

HC	handicapped
HD	head
HDWD	hardwood
HDWR	hardware
HM	hollow metal
HORIZ	horizontal
HR	hour
HT	height
HVAC	heating, ventilation & air conditioning

I

ID	inside diameter
IN (")	inch(es)
INDIV	individual
INFO	information
INSUL	insulation
INT	interior

J

JST	joist
JT	joint

K

KIT	kitchen

L

LKR	locker
LT	light

M

MAS	masonry
MATL	material
MAX	maximum
MB	markerboard
MECH	mechanical
MEP	mechanical/electrical/plumbing
MFR	manufacturer
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MTD	mounted
MTG HT	mounting height
MTL	metal
MULL	mullion

N

N	north
NIC	not in contract
NO (#)	number
NOM	nominal
NRC	noise reduction coefficient
NTS	not to scale

O

OC	on center
OD	outside diameter
OTS	open to structure
OPNG	opening
OPP	opposite

P

PAR	parallel
PCP	portland cement plaster
PERP	perpendicular
PL	property line
PLBG	plumbing
PLYWD	plywood
PNL	panel
PR	pair
PREFAB	prefabricated
PTD	painted
PVC	polyvinyl chloride

R

RAD	radius
RD	roof drain
RE:	refer to
REINF	reinforcing (ed)
REV	reversed
REQ'D	required
RFG	roofing

S

S	south
SCHED	schedule
SECT	section
SF	square foot
SHT	sheet
SHWR	shower
SIM	similar
SPEC	specification
SQ	square
SSTL	stainless steel
STC	sound transmission coeficient
STD	standard
STL	steel
STRUCT	structure(al)
SUSP	suspend(ed)
SY	square yard
SYM	symmetrical

T

T&B	top & bottom
T&G	tongue & groove
TO	top of
TOC	top of curb
TOM	top of masonry
TOS	top of slab/steel
TOW	top of wall
TS	tube steel
TYP	typical

U

UNO	unless noted otherwise

V

VERT	vertical
VTR	vent thru roof

W

W	west
WD	wood
WDO	window
W/	with
W/O	without

Y

YD	yard

SYMBOLS

/	per (or by)
&	and
@	at
[	channel
℄	centerline
Ø	diameter/round
±	plus/minu

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REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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CHECKED BY: JB
DATE: 12.07.2023

A001

GENERAL ARCHITECTURAL INFORMATION

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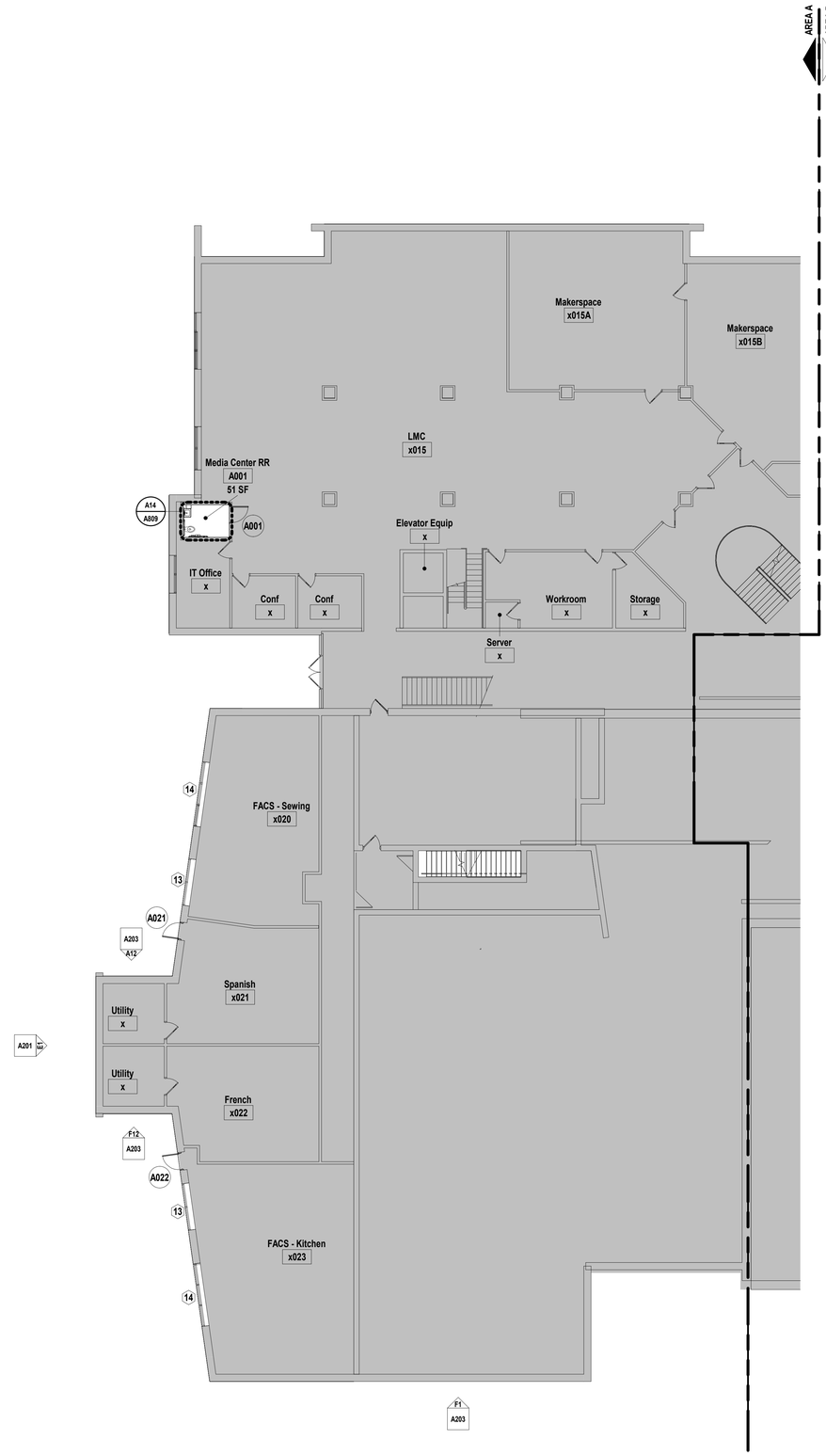

SHEET KEYNOTE LEGEND

WALL TYPE LEGEND

WALL TYPE 6C, REFER TO A001

WALL TYPE 6D, REFER TO A001

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. DO NOT SCALE THIS DRAWING
3. ALL INTERIOR WALLS ARE WALL TYPE 13B UNLESS NOTED OTHERWISE.
4. INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   A. TO FACE OF STUD
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   C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
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8. COORDINATE FINISHES TO REMAIN WITH DEMOLITION SHEET
9. ALL EXPOSED INTERIOR RED BRICK IN THE 64 ADDITION IS TO BE COVERED BY GYP LAMINATE
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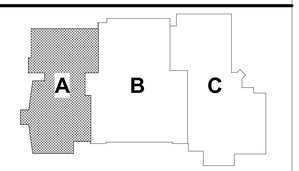
KEY PLAN



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A100A

A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 0 - Area A

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 0 - AREA A

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SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

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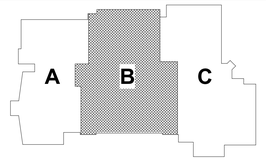

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A100B

A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 0 - Area B

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 0 - AREA B

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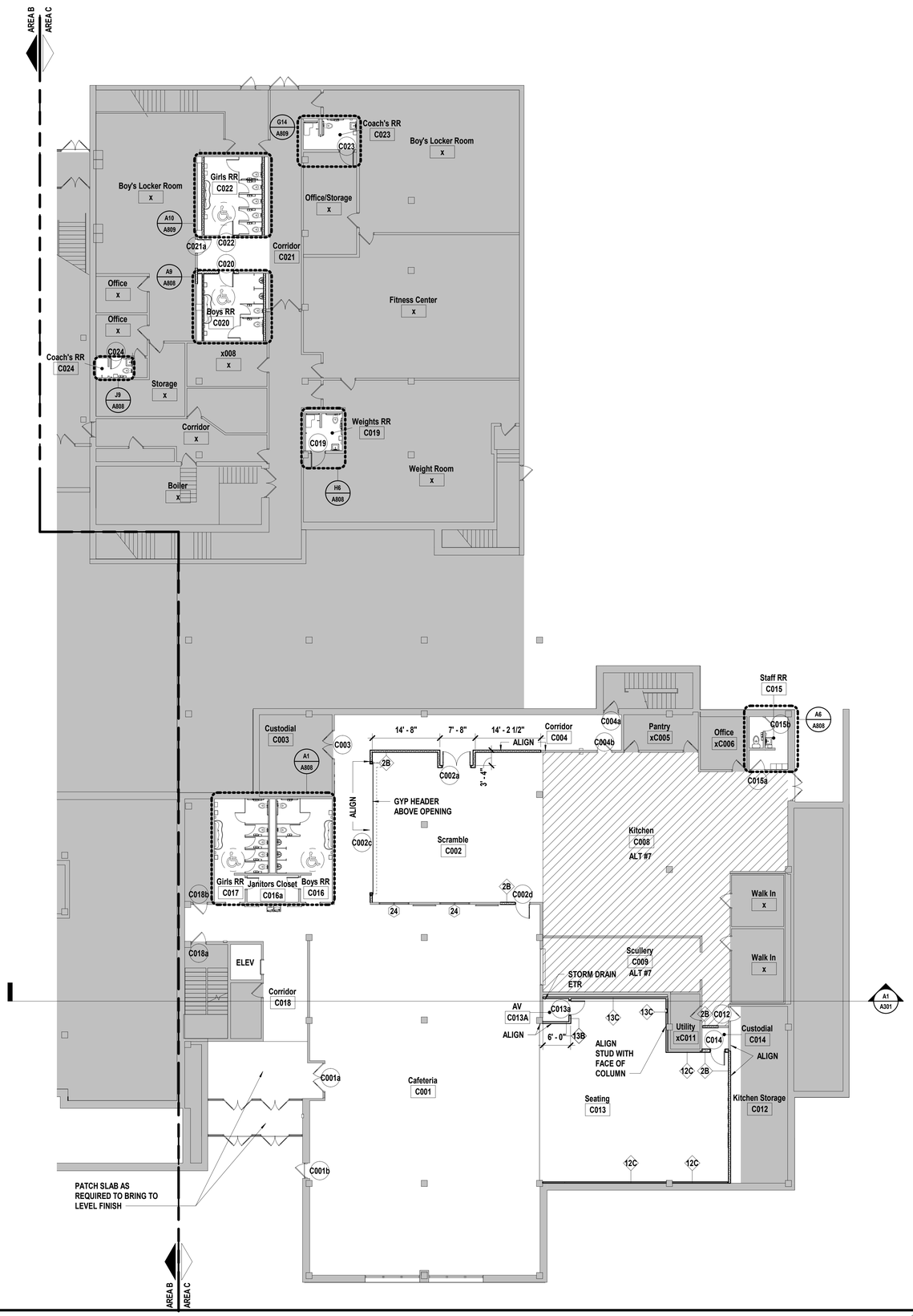

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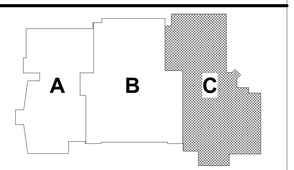

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JOB NO: 23024
DRAWN BY: MW
CHECKED BY: JB
DATE: 12.07.2023

A100C

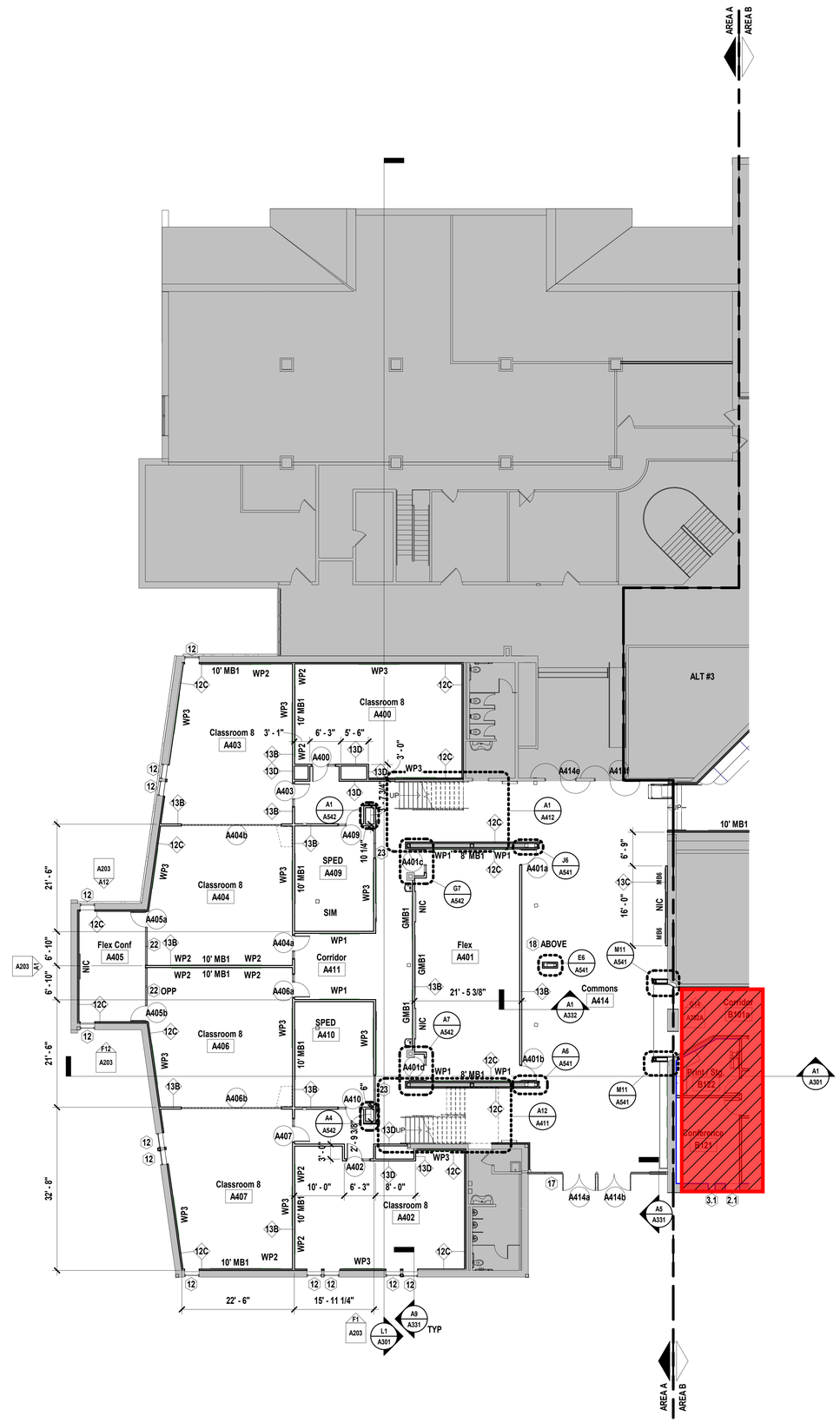
A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 0 - Area C

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 0 - AREA C

12/8/2023 12:19:10 PM

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL TYPE LEGEND

WALL TYPE 6C, REFER TO A001

WALL TYPE 6D, REFER TO A001

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
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3. ALL INTERIOR WALLS ARE WALL TYPE 13B UNLESS NOTED OTHERWISE.
4. INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
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   B. TO FACE OF MASONRY UNIT
   C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
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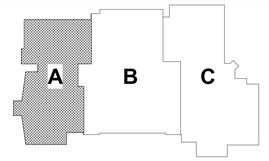
7. COORDINATE WALL REPAIR AND INSTALLATION OF NEW DOORS AND WINDOWS WITH DEMOLITION SHEETS
8. COORDINATE FINISHES TO REMAIN WITH DEMOLITION SHEET
9. ALL EXPOSED INTERIOR RED BRICK IN THE 64 ADDITION IS TO BE COVERED BY GYP LAMINATE
10. WHERER CJ ARE NOT CALLED OUT IN ELEVATION, CJ SHOULD EXTEND FROM DOOR HEADERS TYP, RE: SPECS

KEY PLAN



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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: MW
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DATE: 12.07.2023

A101A

A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 1 - Area A

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 1 - AREA A

12/20/2023 12:19:15 PM

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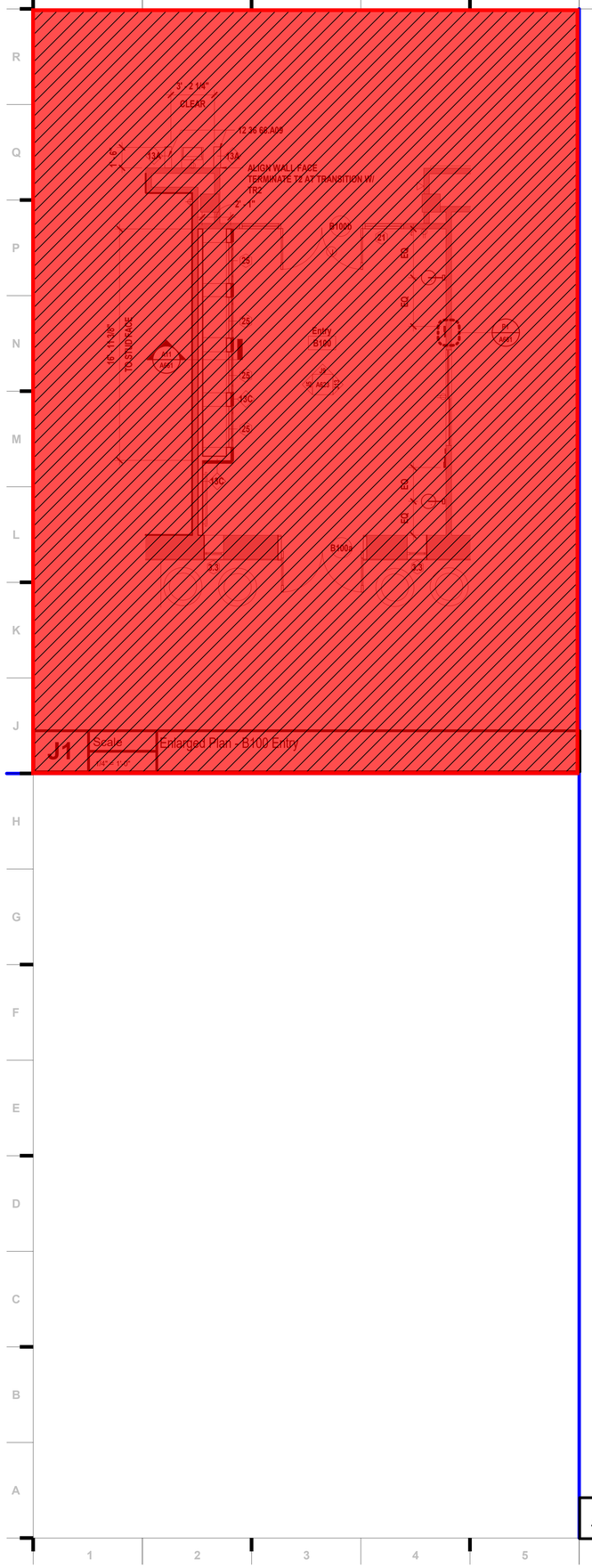

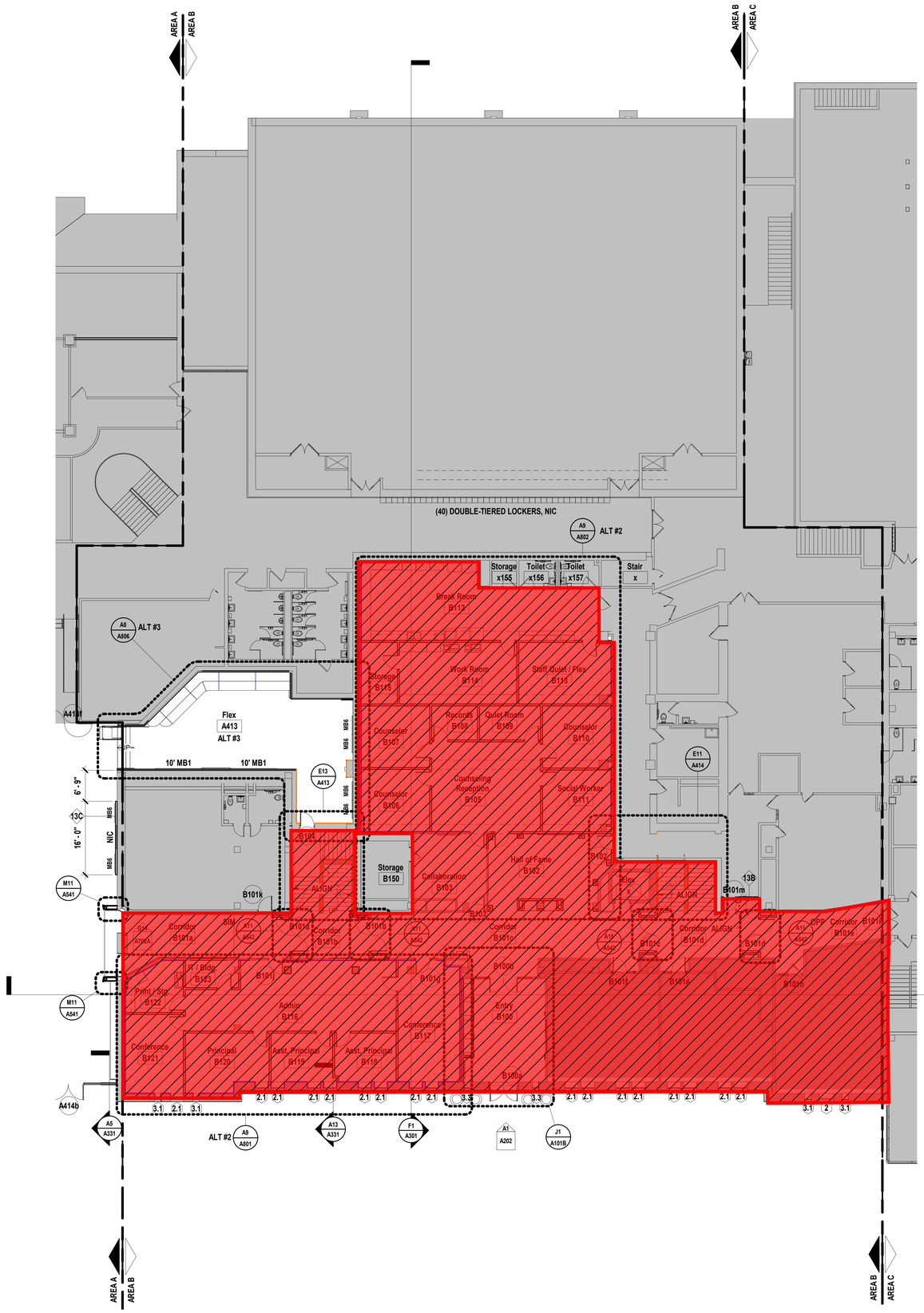

A6 | Scale 3/32" = 1'-0" | Floor Plan - Level 1 - Area B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

12 36 66.A09 SOLID SURFACE WALL CAP

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL TYPE LEGEND

WALL TYPE 6C, REFER TO A001

WALL TYPE 6D, REFER TO A001

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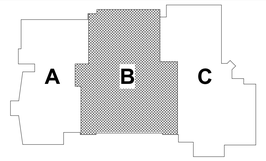
KEY PLAN



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REVISIONS:

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A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
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JOB NO: 23024
DRAWN BY: MW
CHECKED BY: JB
DATE: 12.07.2023

A101B

FLOOR PLAN - LEVEL 1 - AREA B

12/8/2023 12:19:20 PM

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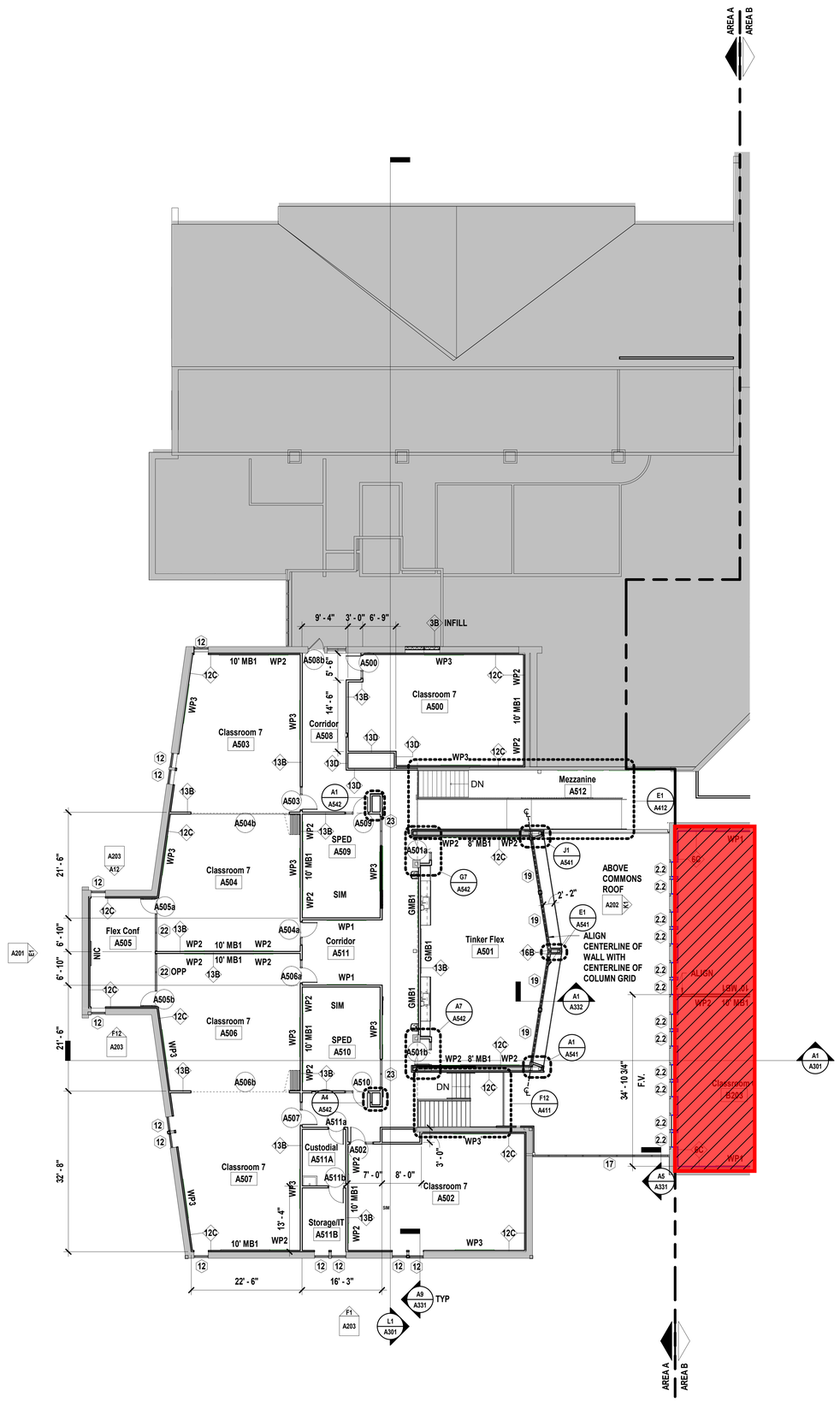

SHEET KEYNOTE LEGEND

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(Not included in this Bid Package)

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WALL TYPE 6D, REFER TO A001

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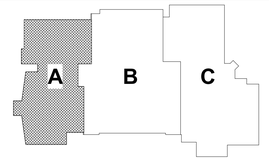

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A102A

A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 2 - Area A

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 2 - AREA A

12/8/2023 12:19:25 PM

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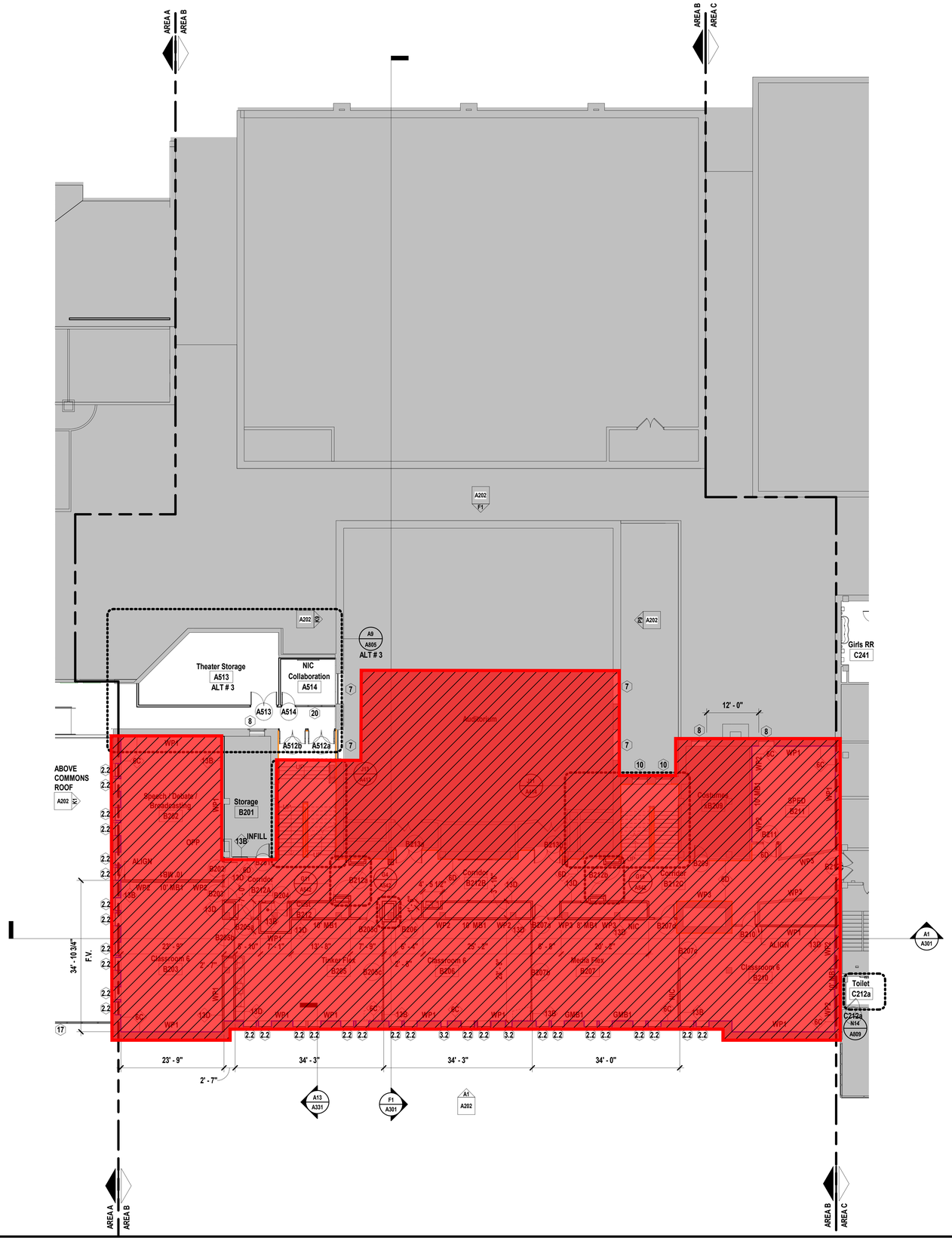

SHEET KEYNOTE LEGEND

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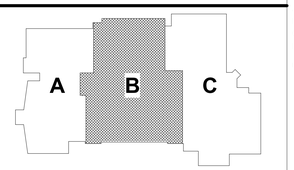

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A102B

A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 2 - Area B

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 2 - AREA B

12/8/2023 12:19:29 PM

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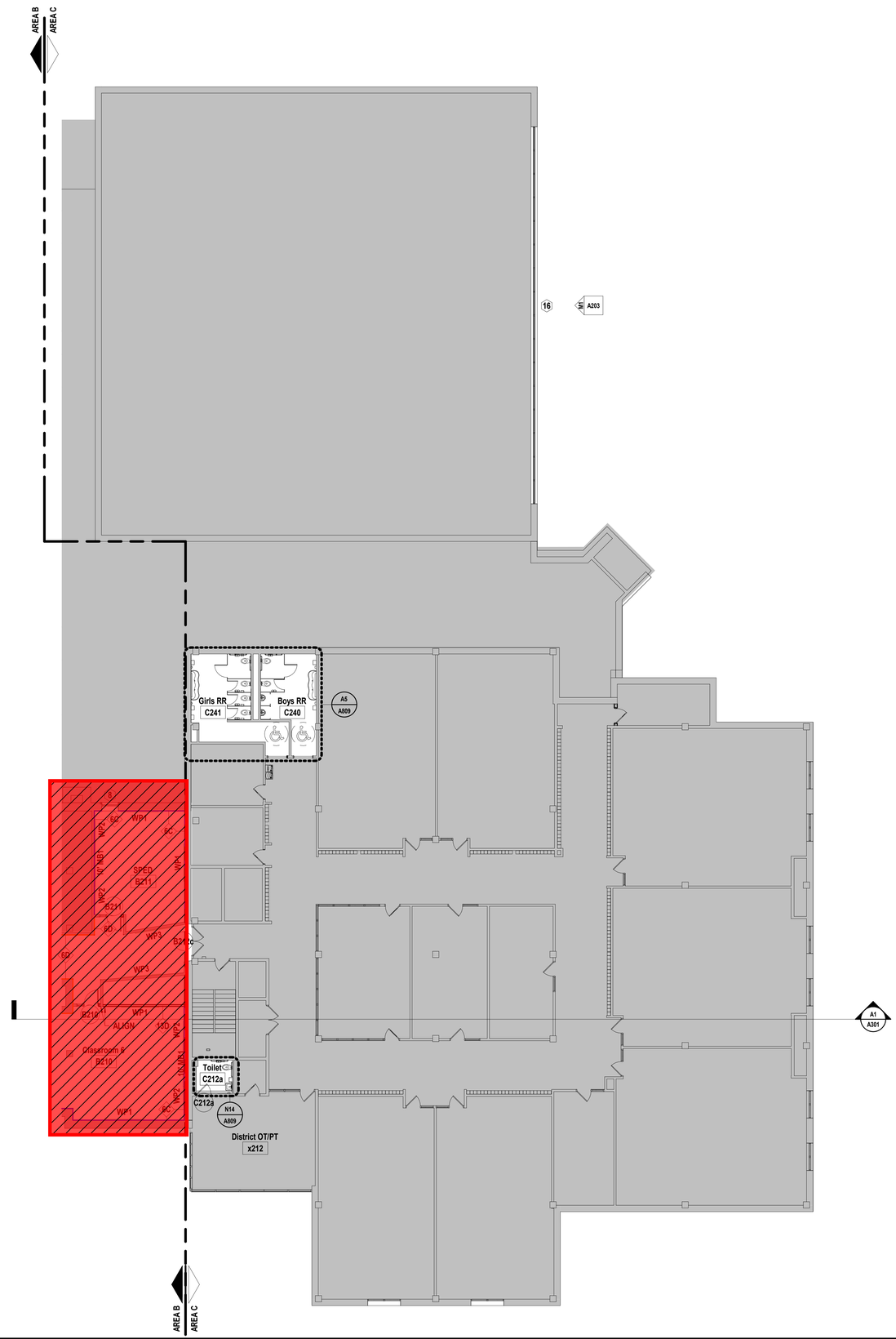

SHEET KEYNOTE LEGEND

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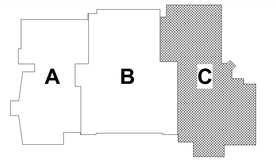
KEY PLAN



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A102C

A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 2 - Area C

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 2 - AREA C

12/8/2023 12:19:32 PM

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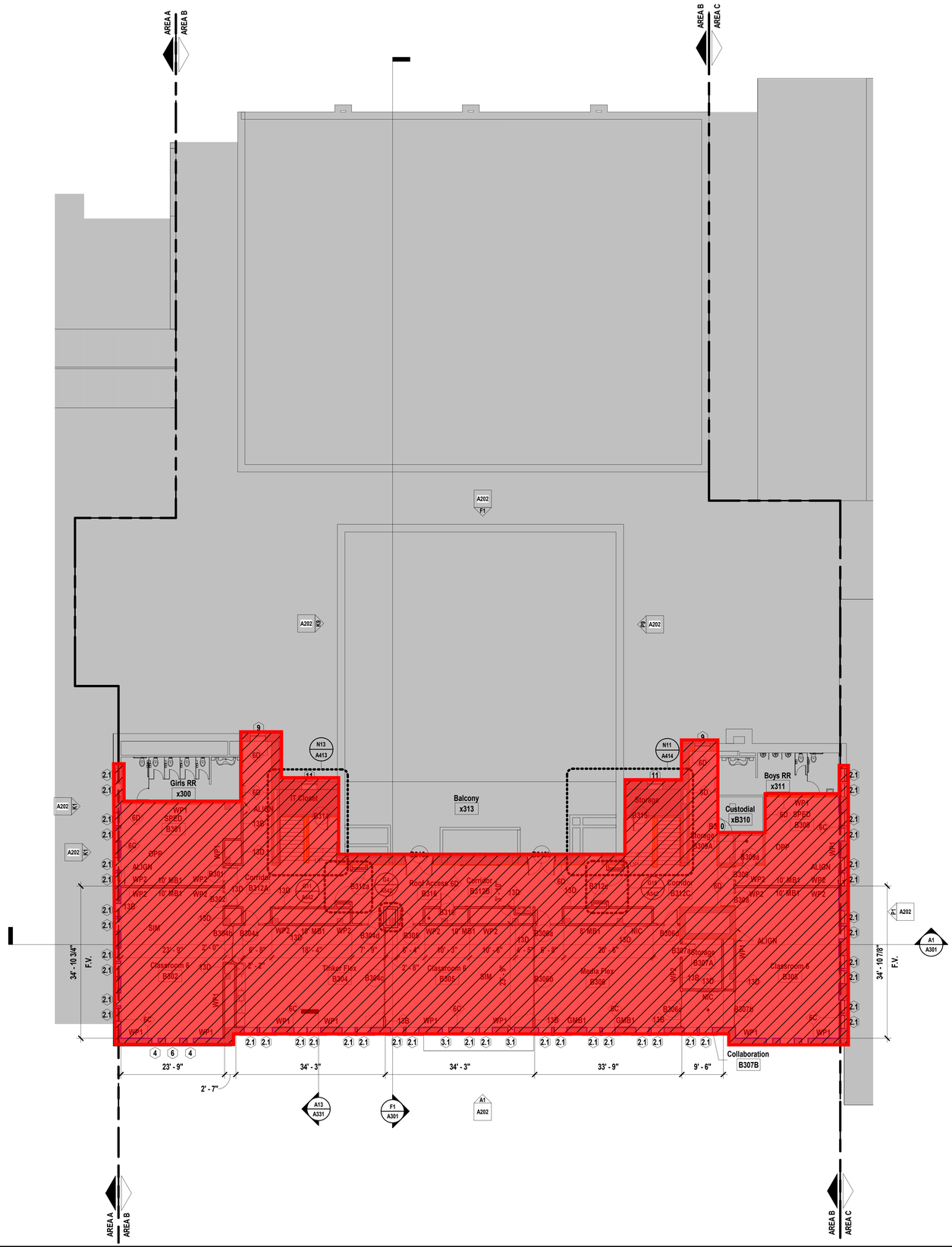

SHEET KEYNOTE LEGEND

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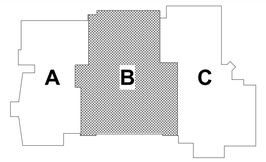

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A103B

A1 | Scale 3/32" = 1'-0" | Floor Plan - Level 3 - Area B

PROJECT NORTH TRUE NORTH

FLOOR PLAN - LEVEL 3 - AREA B

12/8/2023 12:19:35 PM

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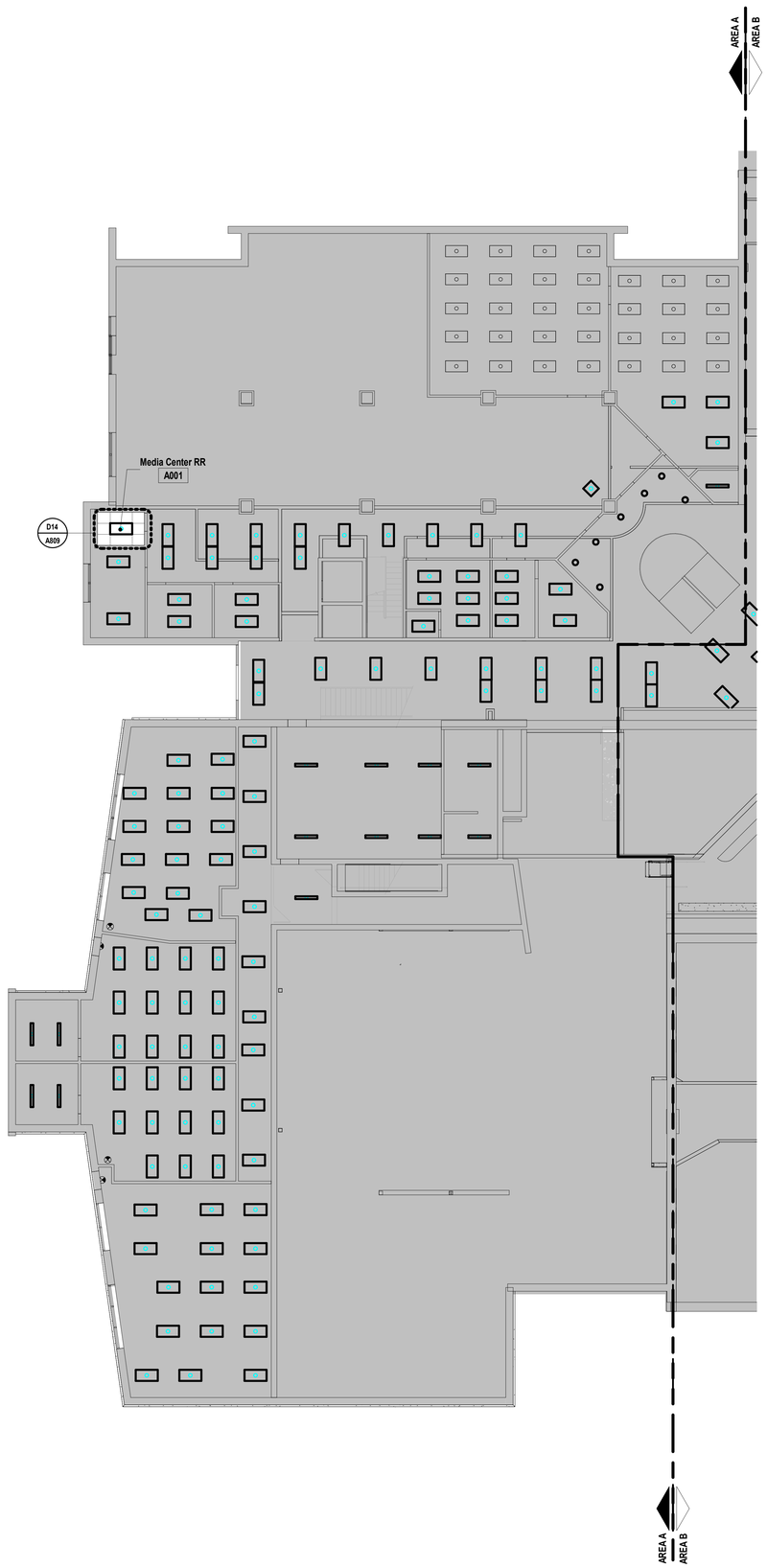
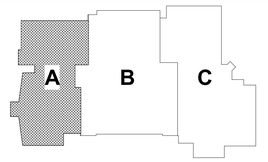


SHEET KEYNOTE LEGEND

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. REFER TO MEP AND TECHNOLOGY SHEETS FOR SPECIFIC CEILING MOUNTED DEVICES
3. EXISTING 1920'S BUILDING STAIRWELL HARD LID CEILINGS TO REMAIN. CLEAN + PREP TO RECEIVE NEW P6.
4. REFER TO A400 SERIES FOR ENLARGED RESTROOM CEILING PLANS. NEW RESTROOM CEILING HEIGHTS TO MATCH EXISTING HEIGHT OF CEILING AT TIME OF DEMOLITION.
5. ALIGN VERTICAL FACE OF CLASSROOM ENTRY SOFFITS WITH VERTICAL FACE OF CORRIDOR WALLS, UNO.
6. REFER TO **DETAIL K10 / A126** FOR STANDARD TRANSITION FROM CLASSROOM ENTRY GYP SOFFIT TO CORRIDOR ACT.
7. REFER TO A400 SERIES FOR NEW CEILINGS WITHIN VERTICAL CIRCULATION. HEIGHTS, CONSTRUCTION AND MATERIALITY AS SHOWN IN SECTION.
8. IN AREAS OF LIGHTING REPLACEMENT THAT ARE NOT INCLUDED IN SCOPE SHOWN, ALLOW FOR 5% OF TOTAL ROOM SQ FOOTAGE FOR PATCH/REPAIR OF CEILING TILES. MATCH EXISTING CONDITIONS.
9. CENTER CAN LIGHTS IN CLASSROOM ENTRY SOFFIT, TYPICAL; UNO.
10. LAMINATE 1/4" GYP TO EXISTING, EXPOSED CONCRETE BEAMS ON LEVEL 3 CEILING; INCLUDE CONTROL JOINTS AS REQUIRED.
11. ACT IS CENTERED IN ROOM, U.N.O.

KEY PLAN



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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A120A

A1 | Scale 3/32" = 1'-0" | Reflected Ceiling Plan - Level 0 - Area A

REFLECTED CEILING PLAN - LEVEL 0 - AREA A

12/8/2023 12:19:38 PM

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A1	Scale 3/32" = 1'-0"	Reflected Ceiling Plan - Level 0 - Area B

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. REFER TO MEP AND TECHNOLOGY SHEETS FOR SPECIFIC CEILING MOUNTED DEVICES
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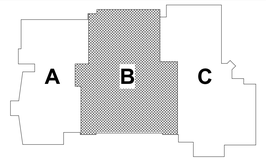
11. ACT IS CENTERED IN ROOM, U.N.O.

KEY PLAN



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A120B

REFLECTED CEILING PLAN - LEVEL 0 - AREA B

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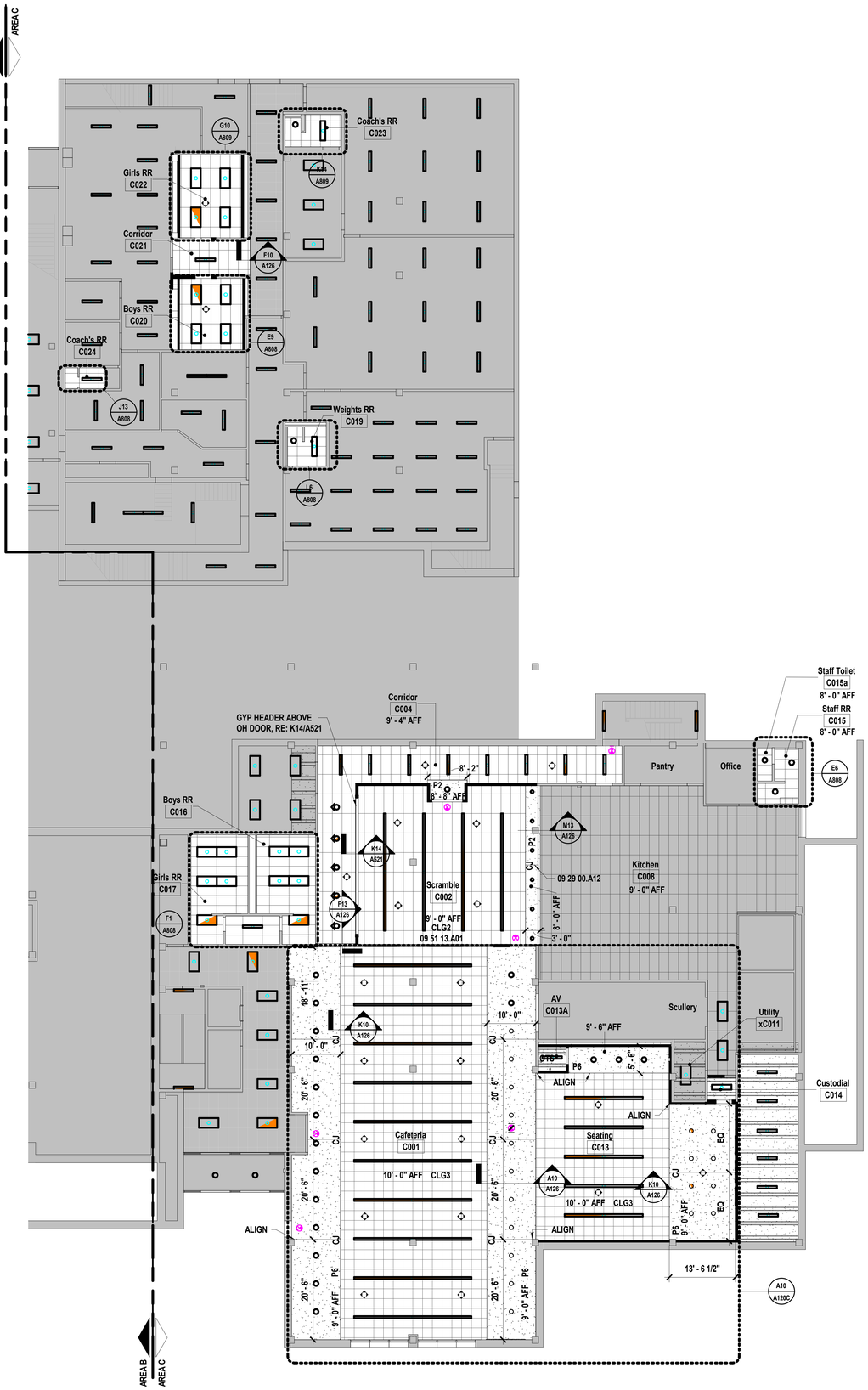

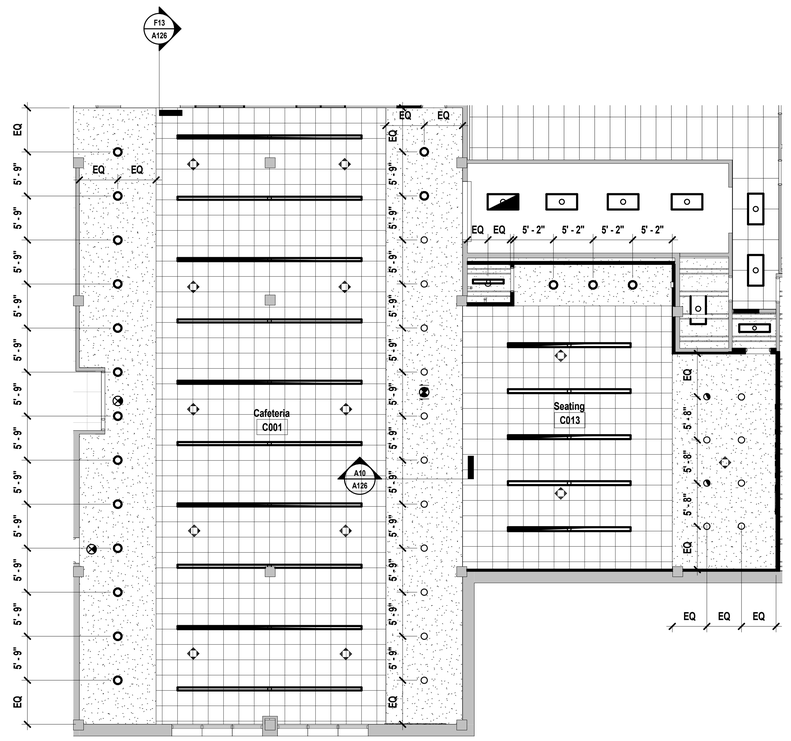

SHEET KEYNOTE LEGEND

09 29 00.A12	EXPANSION (CONTROL) JOINT
09 51 13.A01	ACOUSTICAL CEILING PANELS

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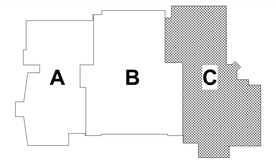

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ARCHITECT
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A120C

A1 Scale 3/32" = 1'-0" — Reflected Ceiling Plan - Level 0 - Area C

A10 Scale 1/8" = 1'-0" — Enlarged Reflected Ceiling Plan - Level 0 - Area C - Cafeteria Lighting

REFLECTED CEILING PLAN - LEVEL 0 - AREA C

12/8/2023 12:19:47 PM

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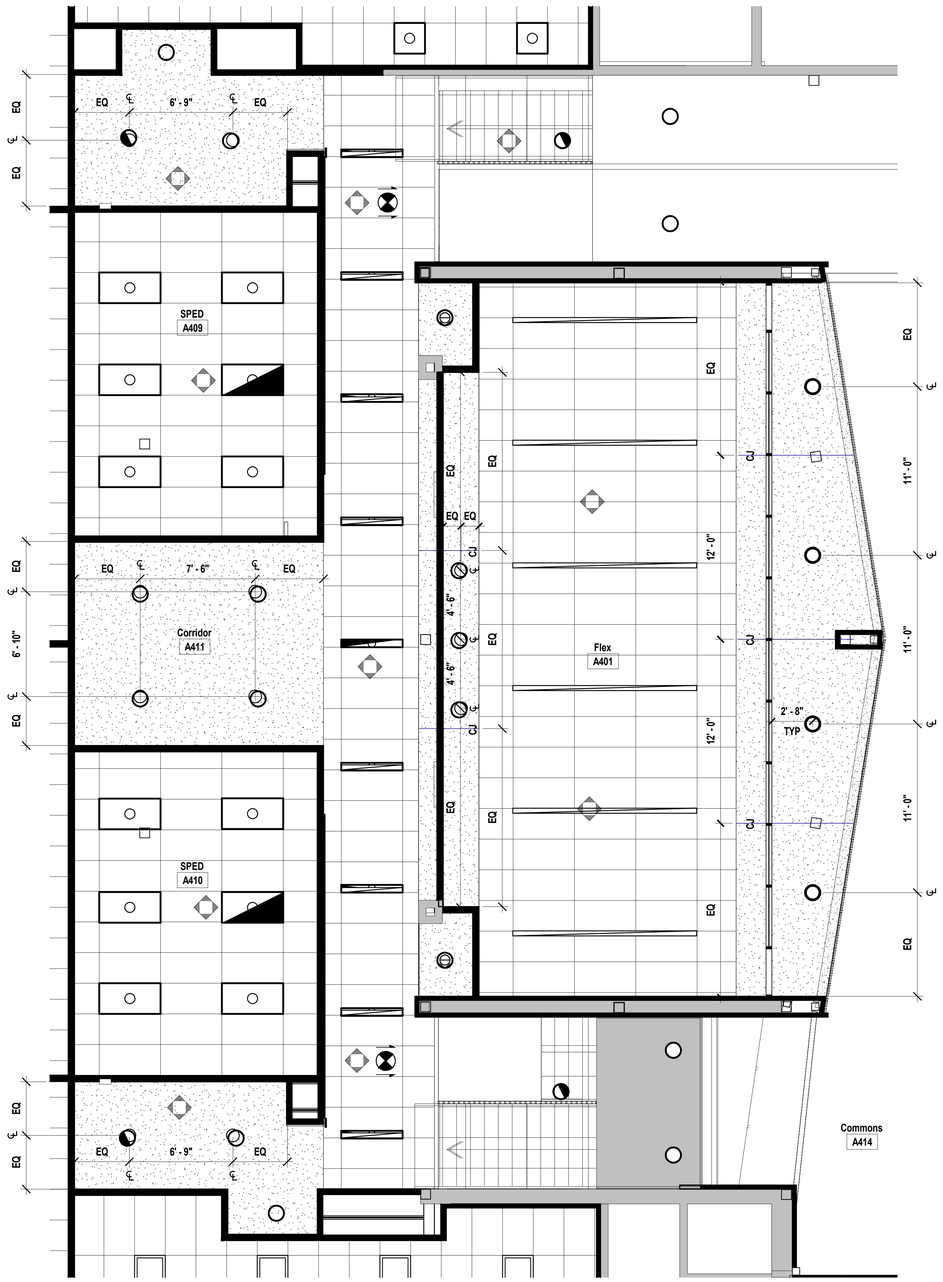

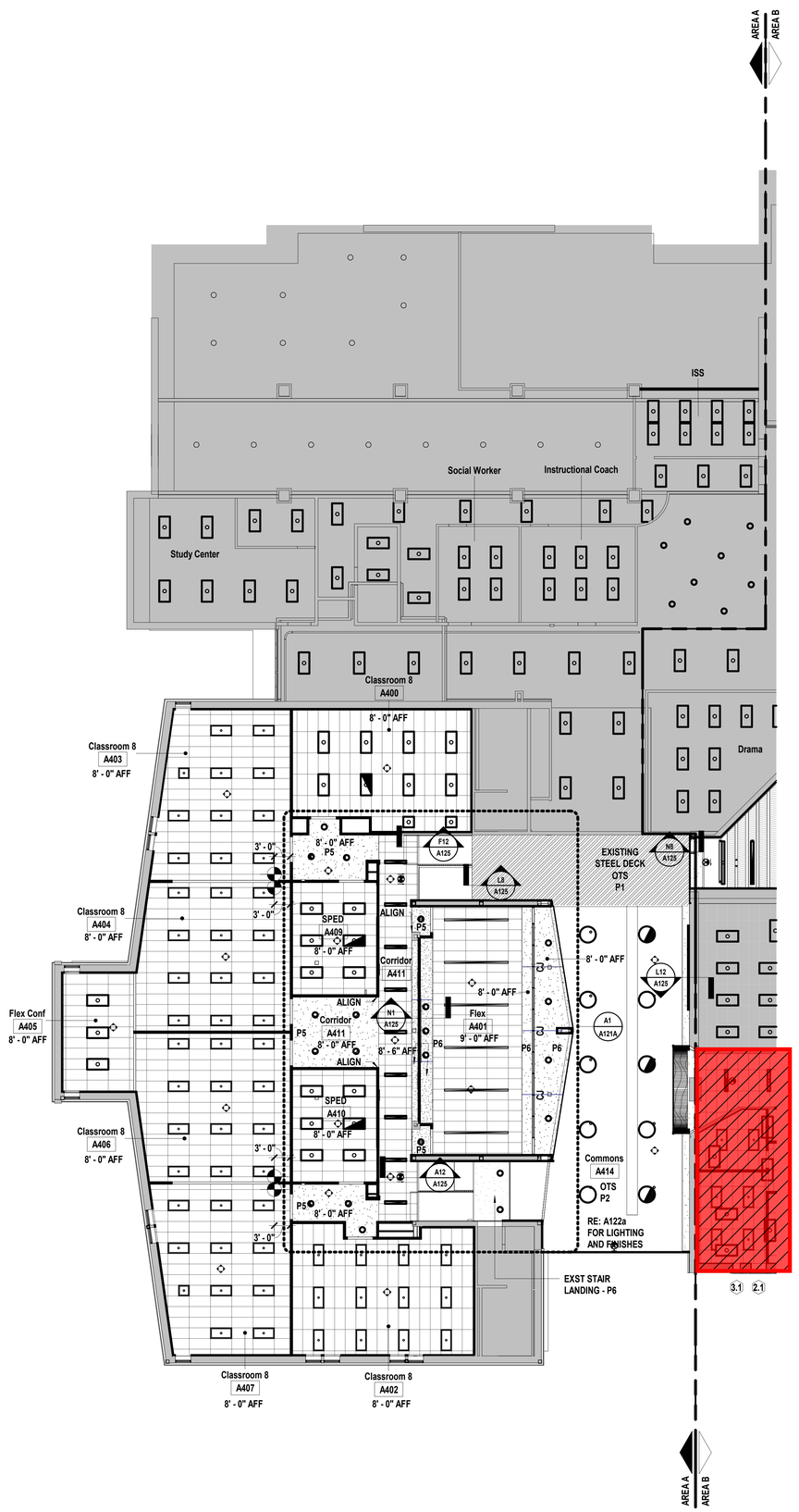

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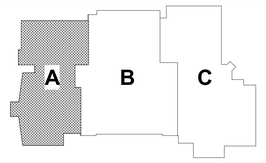
KEY PLAN



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A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
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JOB NO: 23024
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A121A

A1 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - Level 1 - Area A - Lighting + Control Joints

A9 Scale 3/32" = 1'-0" — Reflected Ceiling Plan - Level 1 - Area A

PROJECT NORTH TRUE NORTH

REFLECTED CEILING PLAN - LEVEL 1 - AREA A

12/8/2023 12:19:53 PM

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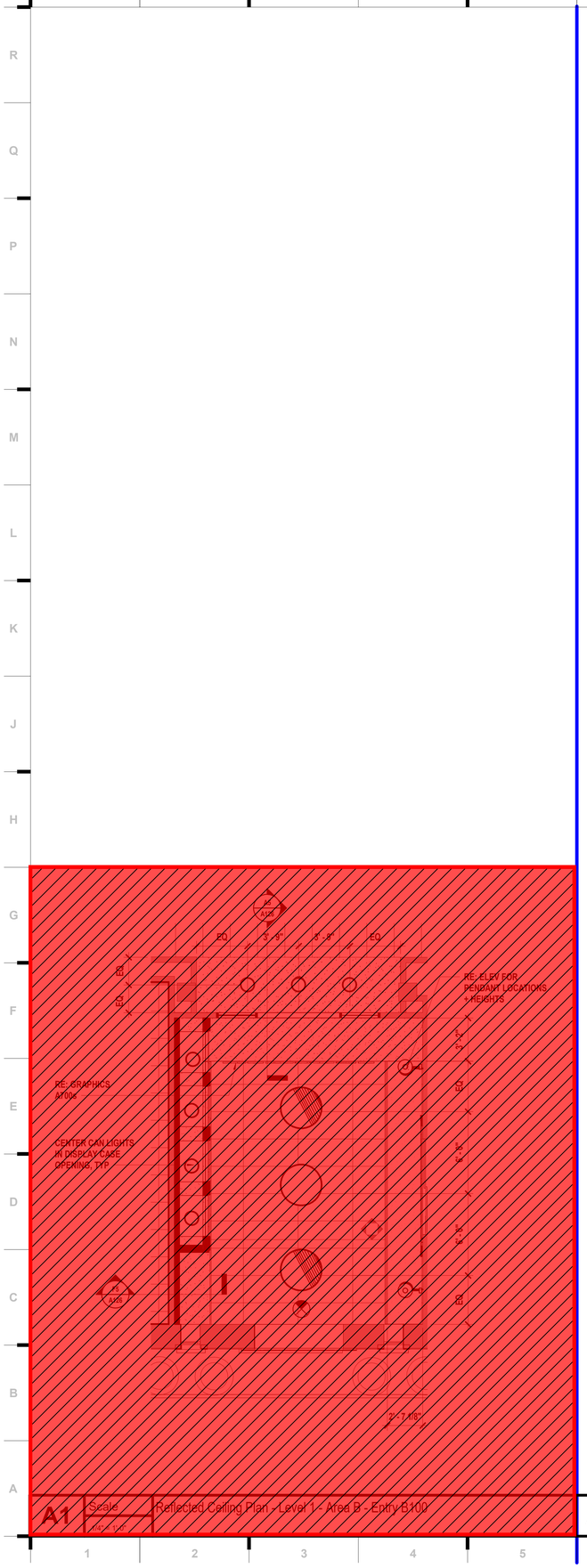

A1 | Scale: 2" = 1'-0" | Reflected Ceiling Plan - Level 1 - Area B - Entry B100



A6 | Scale: 3/32" = 1'-0" | Reflected Ceiling Plan - Level 1 - Area B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

10 14 00.A31 CUSTOM

= Phase 2 Scope of Work (Not included in this Bid Package)

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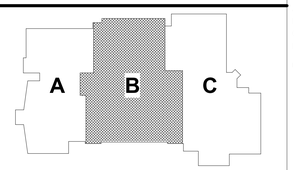

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JOB NO: 23024
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A121B

REFLECTED CEILING PLAN - LEVEL 1 - AREA B

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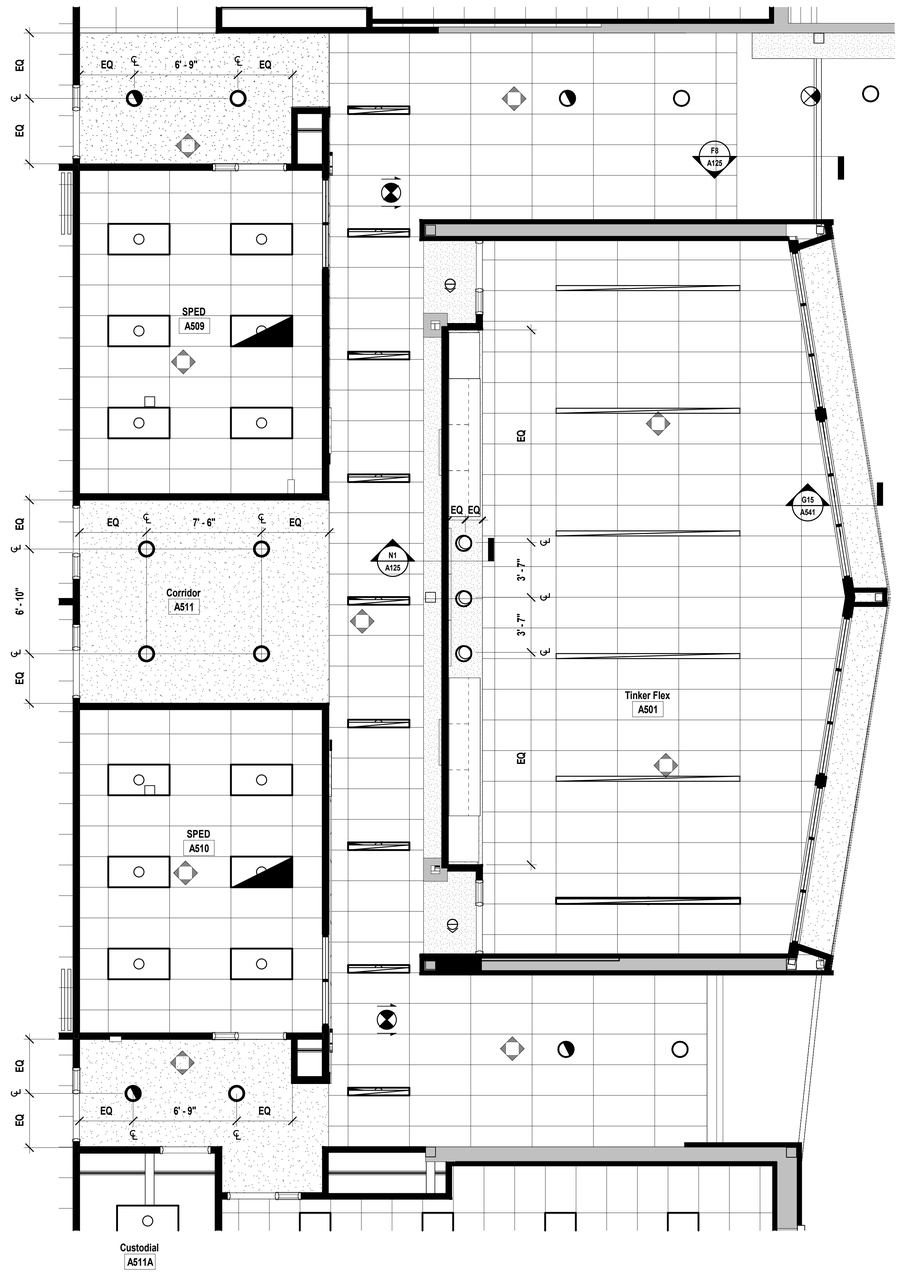

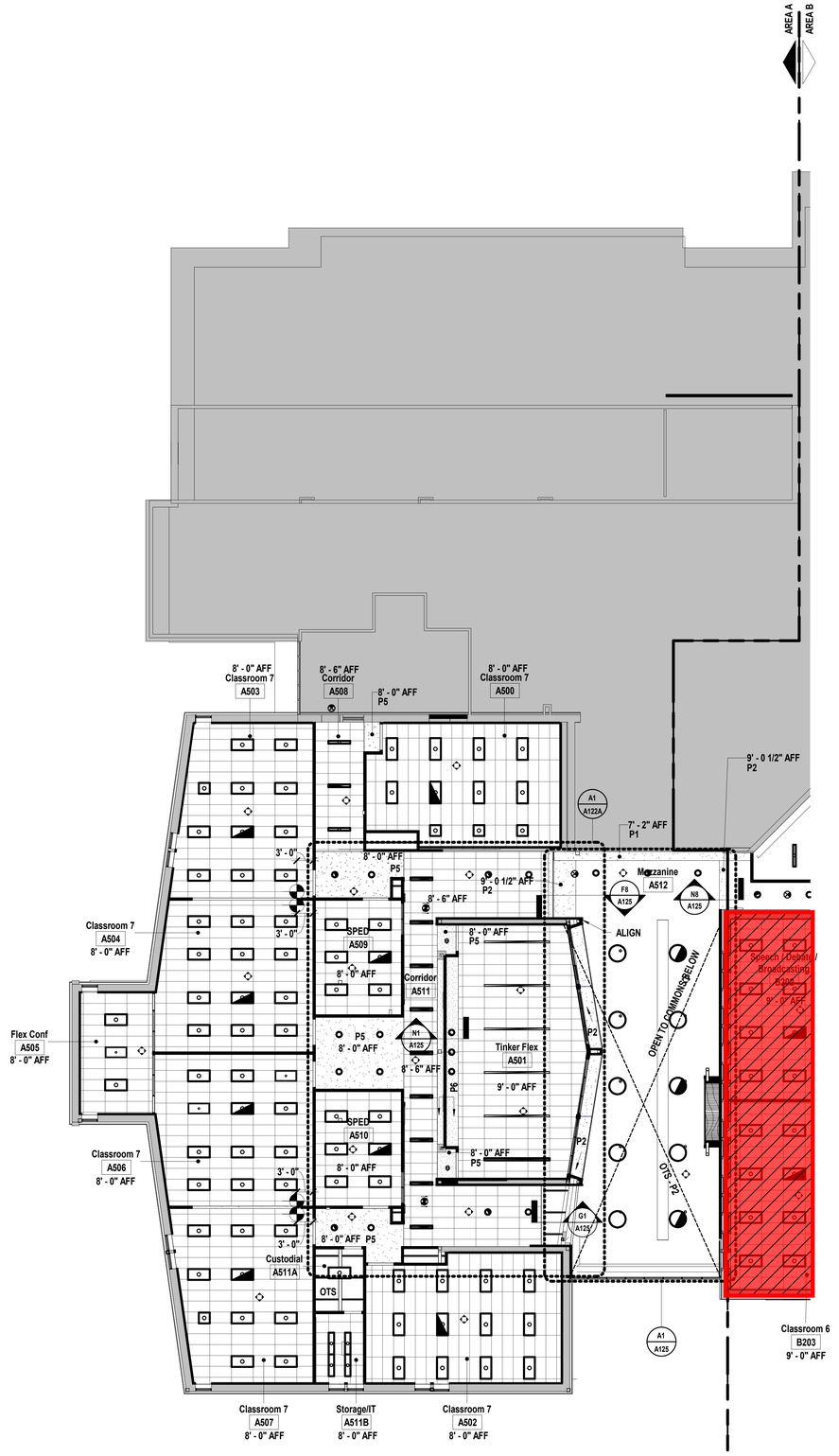

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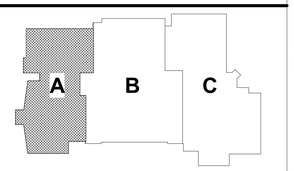

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JOB NO: 23024
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A122A

A1 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - Level 2 - Area A - Lighting + Control Joints

A9 Scale 3/32" = 1'-0" — Reflected Ceiling Plan - Level 2 - Area A

PROJECT NORTH TRUE NORTH

REFLECTED CEILING PLAN - LEVEL 2 - AREA A

12/8/2023 12:20:05 PM

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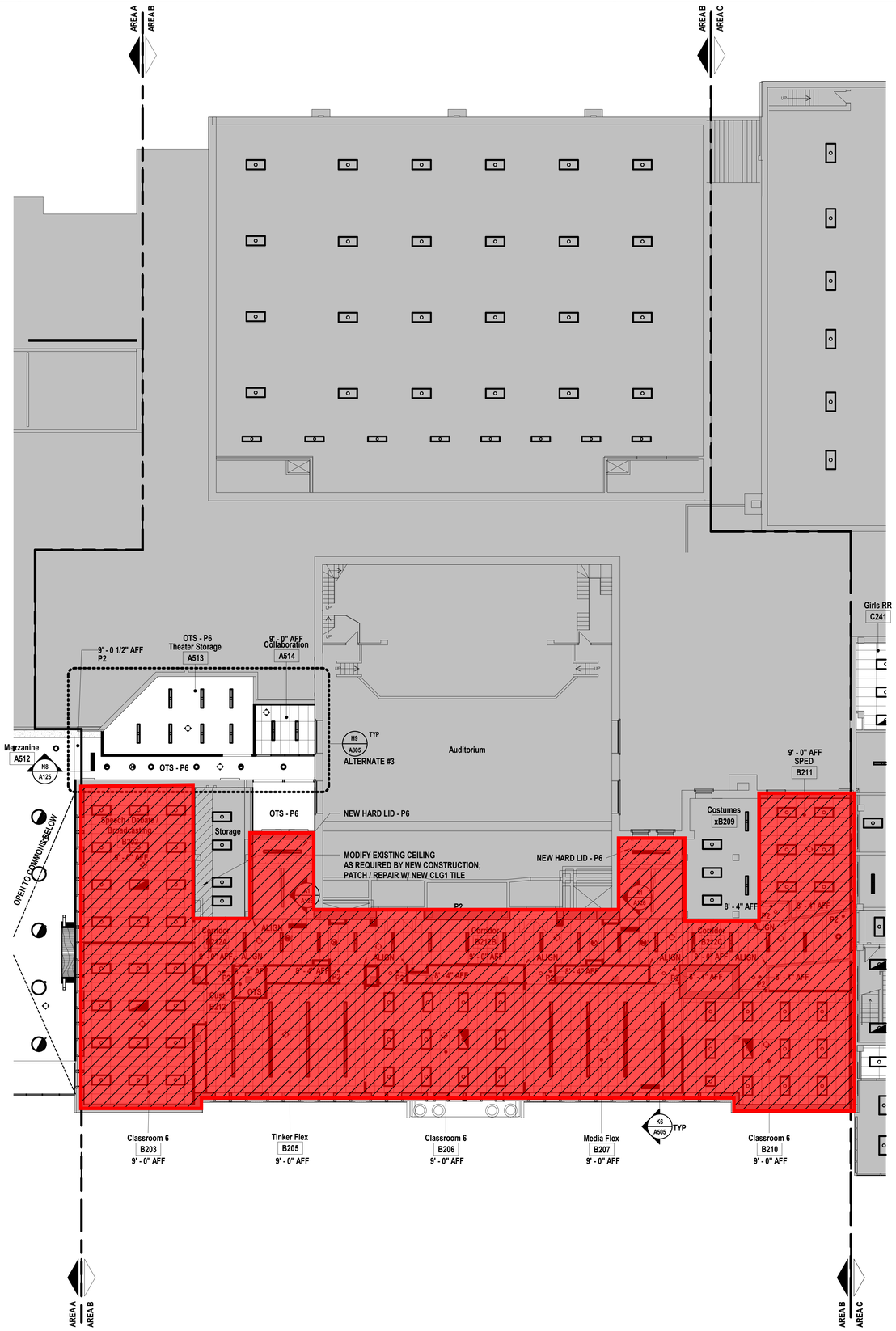

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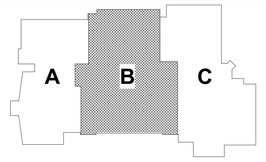

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785.266.5696 phone

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

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REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A122B

A1 Scale 3/32" = 1'-0"

Reflected Ceiling Plan - Level 2 - Area B

PROJECT NORTH TRUE NORTH

REFLECTED CEILING PLAN - LEVEL 2 - AREA B

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SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. REFER TO MEP AND TECHNOLOGY SHEETS FOR SPECIFIC CEILING MOUNTED DEVICES
3. EXISTING 1920'S BUILDING STAIRWELL HARD LID CEILINGS TO REMAIN. CLEAN + PREP TO RECEIVE NEW P6.
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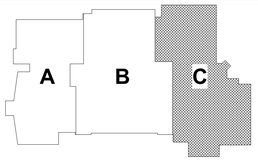
11. ACT IS CENTERED IN ROOM, U.N.O.

KEY PLAN



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A122C

A1 | Scale 3/32" = 1'-0" | Reflected Ceiling Plan - Level 2 - Area C

PROJECT NORTH TRUE NORTH

REFLECTED CEILING PLAN - LEVEL 2 - AREA C

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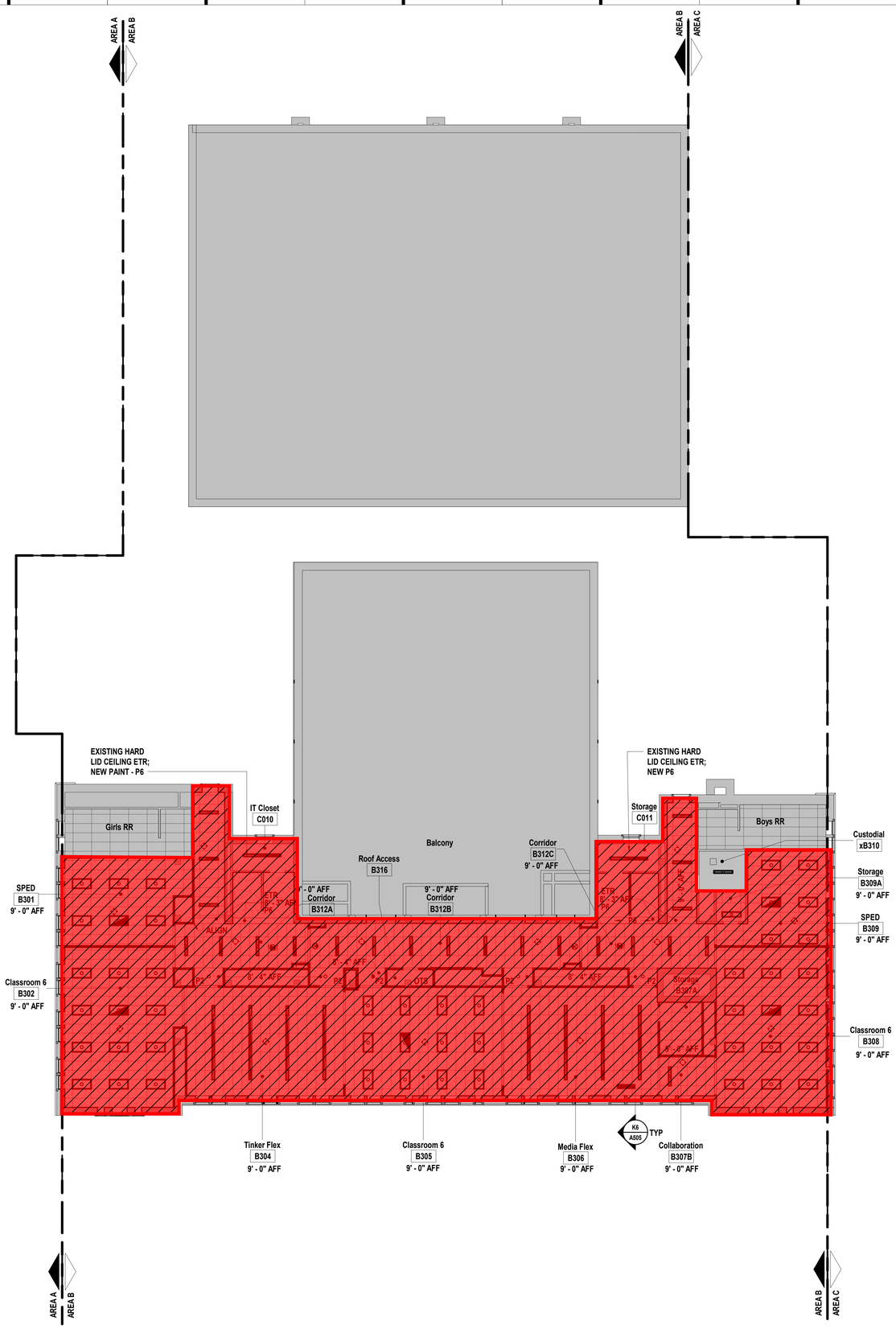

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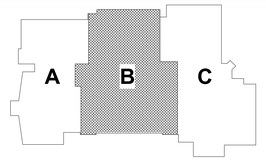
KEY PLAN



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JOB NO: 23024
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A123B

A1 | Scale 3/32" = 1'-0" | Reflected Ceiling Plan - Level 3 - Area B

PROJECT NORTH TRUE NORTH

REFLECTED CEILING PLAN - LEVEL 3 - AREA B

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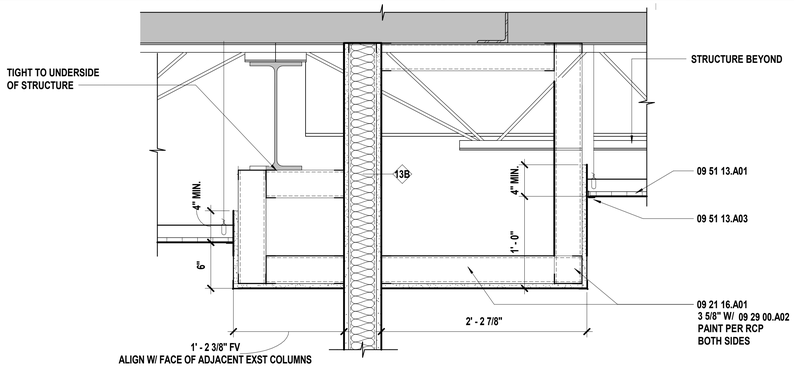
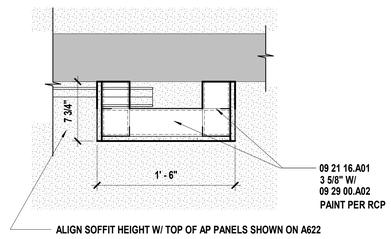
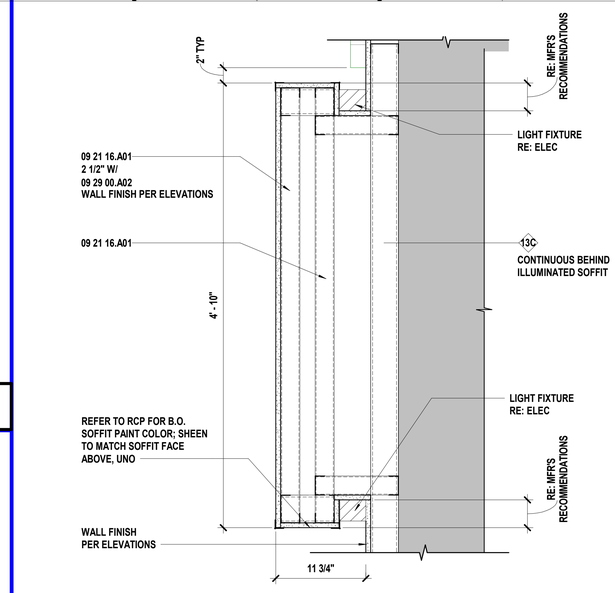


N1 Scale 1 1/2" = 1'-0" — Ceiling Detail - A401/A501 Flex Soffits

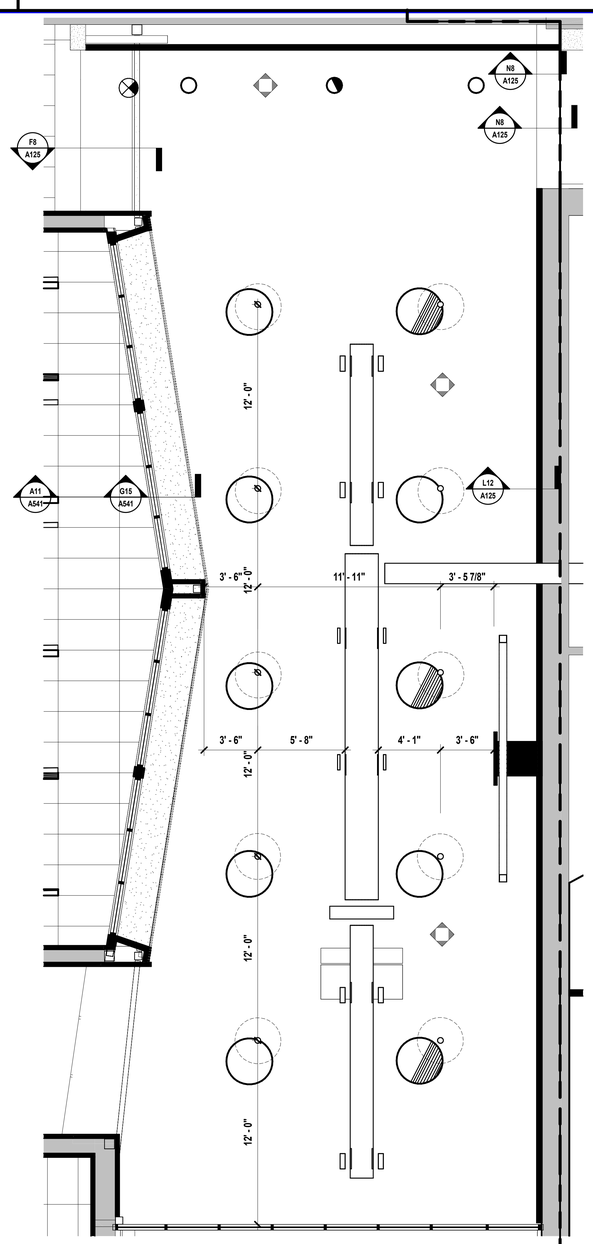


N8 Scale 1 1/2" = 1'-0" — Ceiling Detail - A512 Mezzanine - Bulkhead @ Flex Area

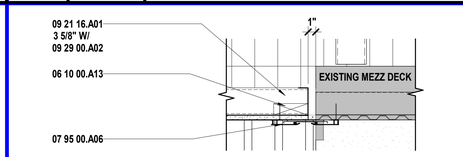


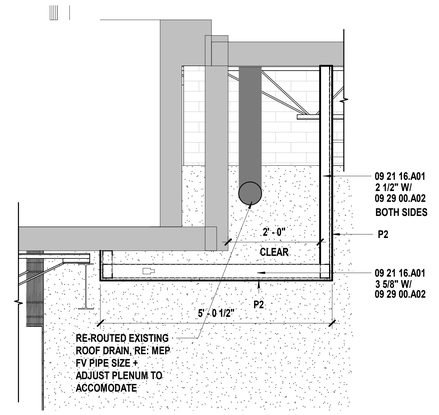
L8 Scale 1 1/2" = 1'-0" — Ceiling Detail - A411 Corridor - Hard Lid @ Exst Mezz Deck

L12 Scale 1 1/2" = 1'-0" — Ceiling Detail - A414 Commons - East Soffit

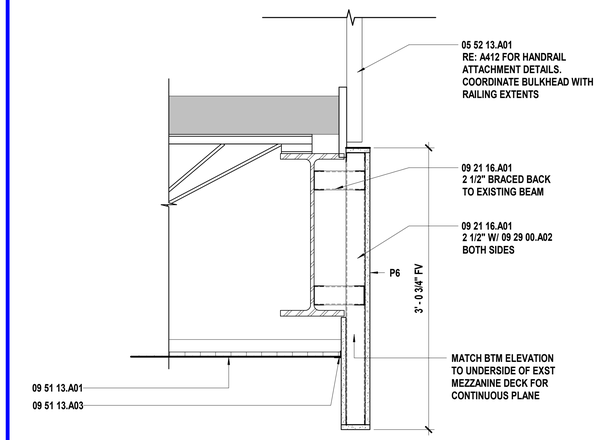


A1 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - A414 Commons Enlarged Lighting Plan





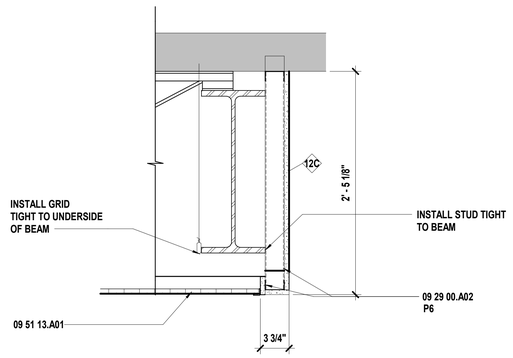
F8 Scale 3/4" = 1'-0" — Ceiling Detail - A512 Mezzanine - ACT @ Catwalk



F12 Scale 1 1/2" = 1'-0" — Ceiling Detail - A411 Corridor - N @ Stair



G1 Scale NTS — Ceiling Detail - A511 Corridor - S @ Commons



A12 Scale 1 1/2" = 1'-0" — Ceiling Detail - A411 Corridor - S @ Stair

SHEET KEYNOTE LEGEND

05 52 13.A01	STEEL PIPE AND TUBE RAILINGS
06 10 00.A13	WOOD BLOCKING/NAILERS
07 95 00.A06	WALL-TO-WALL JOINT SYSTEM
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 51 13.A03	EDGE MOLDINGS AND TRIM

SHEET NOTES

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JOB NO: 23024
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A125

CEILING DETAILS - AREA A

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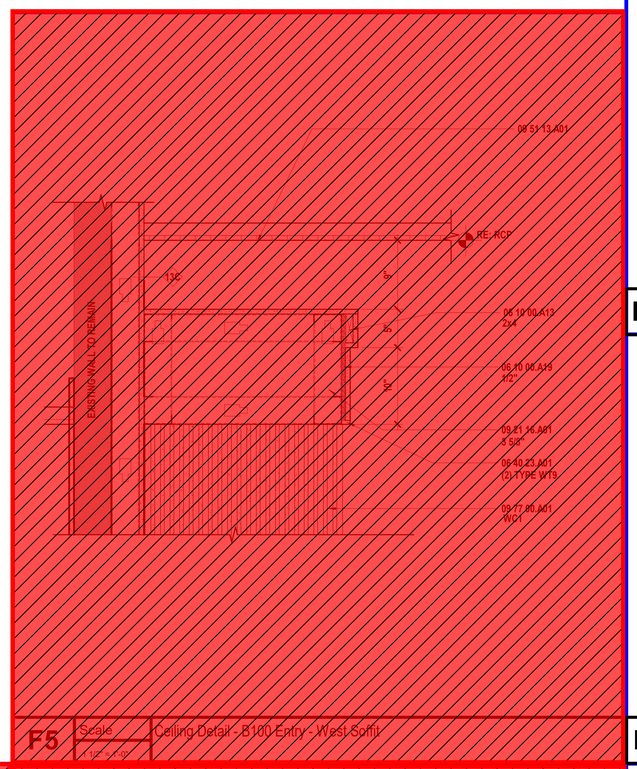
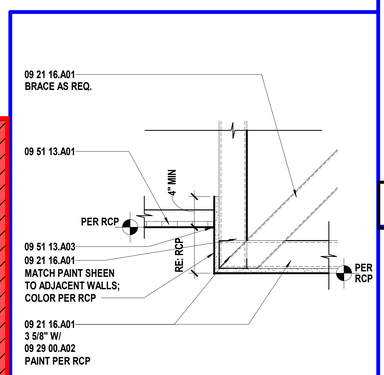
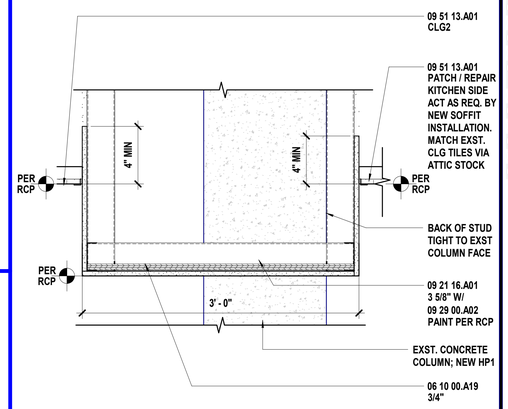


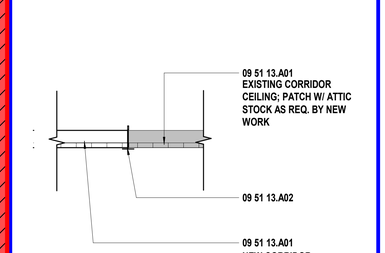
F5 | Scale 1 1/2" = 1'-0" | Ceiling Detail - B100 Entry - West Soffit



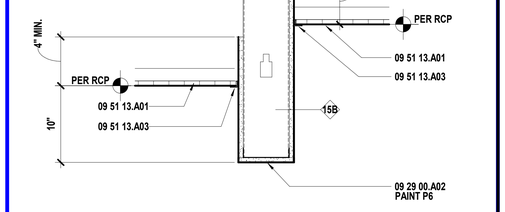
K10 | Scale 1 1/2" = 1'-0" | Ceiling Detail - Standard Gyp Soffit @ ACT



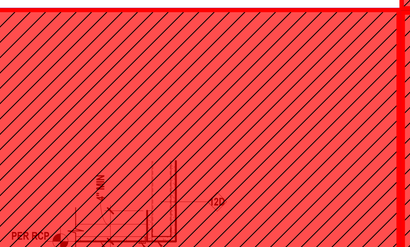
M13 | Scale 1 1/2" = 1'-0" | Ceiling Detail - C002 Scramble - Soffit @ Kitchen



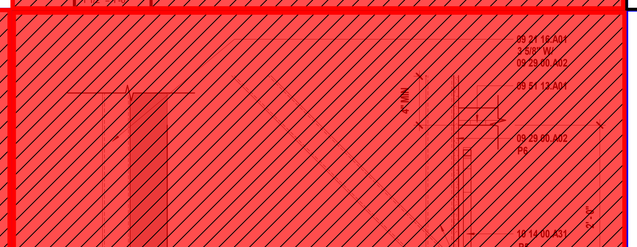
F10 | Scale 1 1/2" = 1'-0" | Ceiling Detail - C021 Corridor - ACT Existing to New



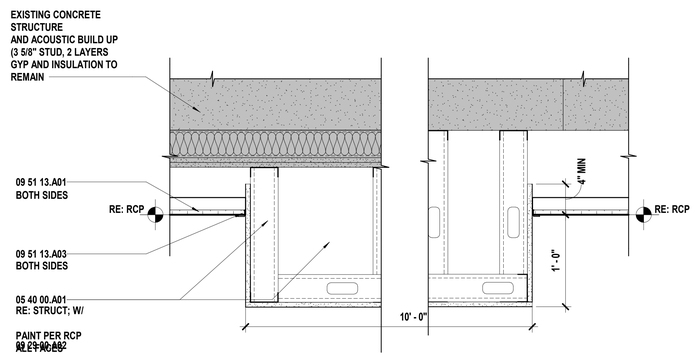
F13 | Scale 1 1/2" = 1'-0" | Ceiling Detail - C001 Cafeteria - Bulkhead at Exit



A1 | Scale 1/4" = 1'-0" | Ceiling Detail - Area B - Level 2 - South Stairwell @ Corridor



A5 | Scale 1/4" = 1'-0" | Ceiling Detail - B100 Entry - Existing Soffit



A10 | Scale 1 1/2" = 1'-0" | Ceiling Detail - C013 Seating - Soffit @ Existing Opening

SHEET KEYNOTE LEGEND

05 40 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A13	WOOD BLOCKING/NAILERS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 40 23.A01	ORNAMENTAL TRIM - TRANSPARENT
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 51 13.A02	CEILING SUSPENSION SYSTEM
09 51 13.A03	EDGE MOLDINGS AND TRIM
09 77 00.A01	ARCHITECTURAL WALL CLADDING SYSTEM
10 14 00.A31	CUSTOM

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JOB NO: 23024
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A126

CEILING DETAILS - AREAS B & C

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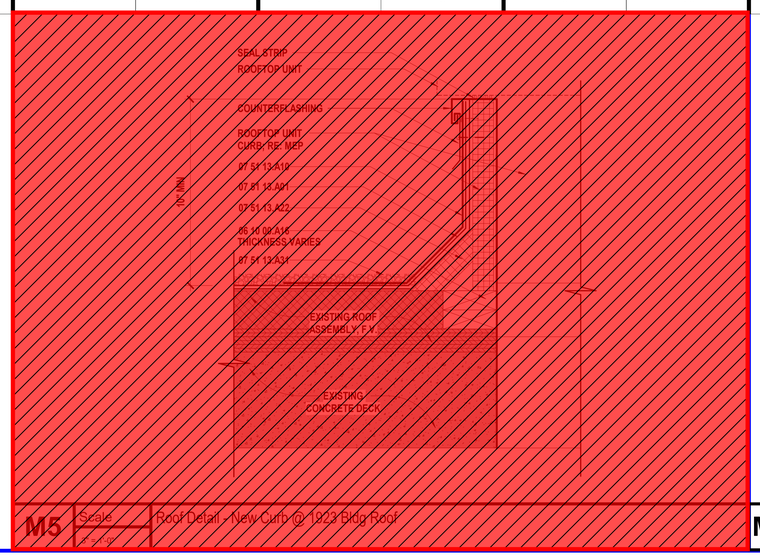
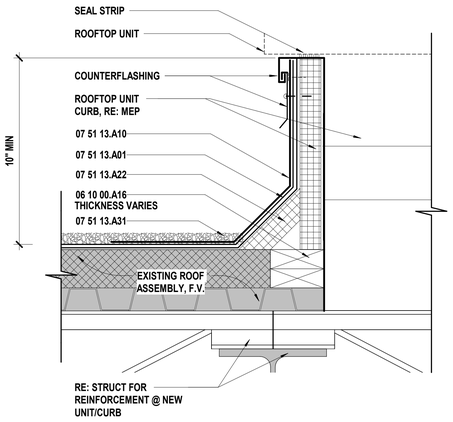
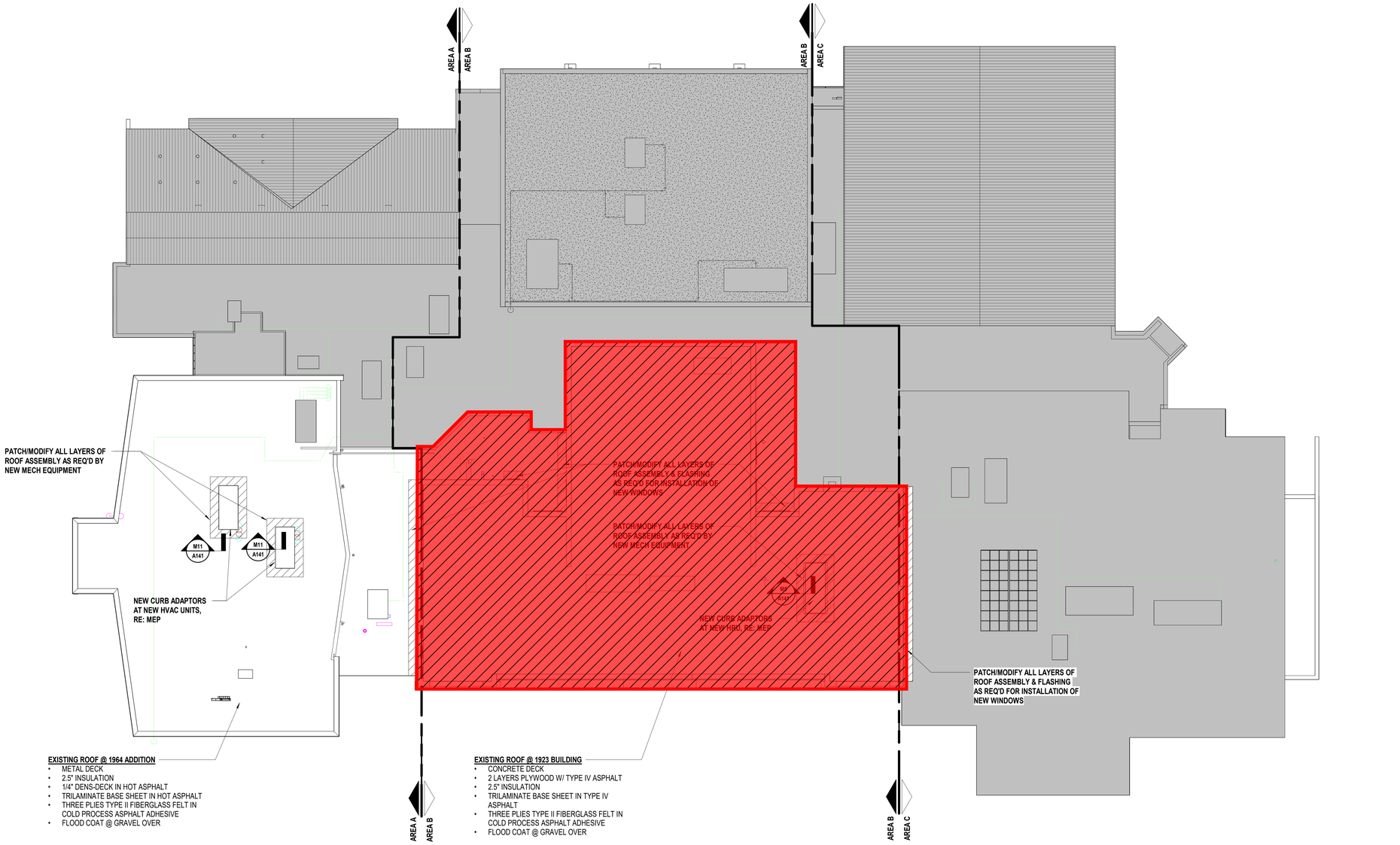


M5 Scale 3" = 1'-0" Roof Detail - New Curb @ 1923 Bldg Roof



M11 Scale 3" = 1'-0" Roof Detail - New Curb @ 1964 Addition Roof



EXISTING ROOF @ 1964 ADDITION
- METAL DECK
- 2.5" INSULATION
- 1/4" DENS-DECK IN HOT ASPHALT
- TRILAMINATE BASE SHEET IN HOT ASPHALT
- THREE PLIES TYPE II FIBERGLASS FELT IN COLD PROCESS ASPHALT ADHESIVE
- FLOOD COAT @ GRAVEL OVER

EXISTING ROOF @ 1923 BUILDING
- CONCRETE DECK
- 2 LAYERS PLYWOOD W/ TYPE IV ASPHALT
- 2.5" INSULATION
- TRILAMINATE BASE SHEET IN TYPE IV ASPHALT
- THREE PLIES TYPE II FIBERGLASS FELT IN COLD PROCESS ASPHALT ADHESIVE
- FLOOD COAT @ GRAVEL OVER

A1 Scale 1/16" = 1'-0" Roof Plan

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

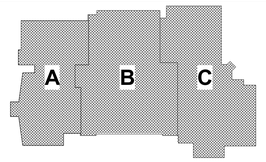
06 10 00.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
07 51 13.A01	BUILT-UP ASPHALT ROOFING SYSTEM
07 51 13.A10	BASE FLASHING
07 51 13.A22	INSULATION CANT STRIPS
07 51 13.A31	FLOOD COAT & GRAVEL

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

1. REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN DETAILS
2. REFER TO MECHANICAL DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND CURBS
3. REFER TO PLUMBING DRAWINGS FOR EXPOSED GAS PIPING AND SUPPORTS

KEY PLAN



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785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

A141

ROOF PLAN

12/8/2023 12:20:34 PM

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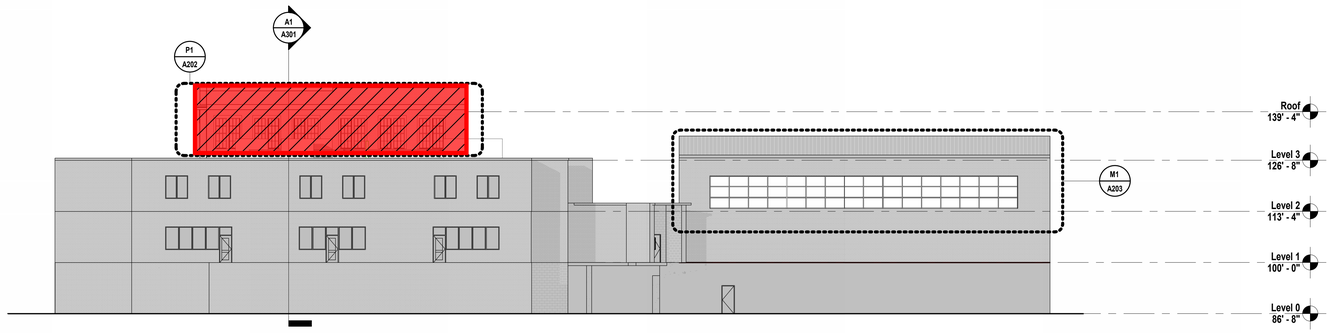
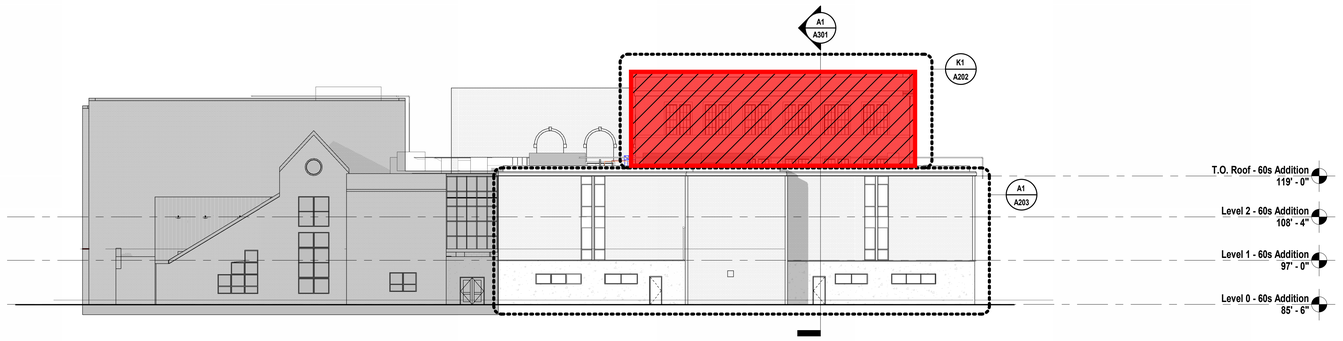
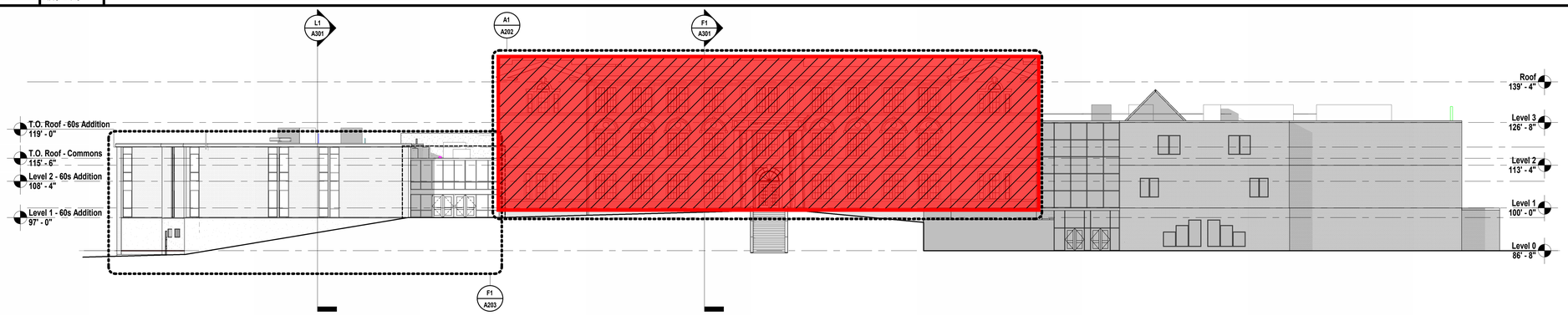


J1 Scale 1/16" = 1'-0" — Exterior Elevation - Overall North

= Phase 2 Scope of Work
(Not included in this Bid Package)



E1 Scale 1/16" = 1'-0" — Exterior Elevation - Overall South



A1 Scale 1/16" = 1'-0" — Exterior Elevation - Overall East

SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
04 72 00.A01	CAST STONE
07 62 00.A13	COPING
08 41 13	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
08 41 23	STEEL FRAMED ENTRANCES AND STOREFRONTS
09 91 13	EXTERIOR PAINTING

EXTERIOR NOTES

1. NEW CAST STONE SILL, FIELD VERIFY TO MATCH EXISTING STONE SILL PROFILE
2. PATCH & REPAIR EXISTING CAST IN PLACE CONCRETE SILL BETWEEN BRICK AND FOUNDATION WALL; REMOVE EXISTING SEALANT AND ADD NEW SEALANT BETWEEN CIP SILL AND EXISTING BRICK
   RE: SHEET A204 FOR PHOTOS
3. PATCH & REPAIR EXISTING CAST IN PLACE FOUNDATION WALL; PAINT EXISTING CONCRETE WALL. PROVIDE IN PLACE MOCKUP OF PAINT COLORS AS SELECTED BY ARCHITECT FOR APPROVAL.; RE: SPEC SECTION 09 91 13
4. CLEAN EXISTING COLUMNS, ARCHITRAVE, AND STONE ORNAMENTATION, RE: SHEET A204 FOR PHOTOS.
5. PATCH & REPAIR PUNCTURES AND RUST STAINS AT EXISTING NATURAL STONE, RE: SPEC SECTION 04 01 40
6. REPOINT AND REPAIR MORTAR JOINTS - 100% OF WALL AREA AT BUILDING ELEVATIONS INDICATED ON SHEETS A202 & A203, RE: SPEC SECTION 04 01 40
7. EXISTING HISTORIC NATURAL STONE RESTORATION ON COLUMN CAPITAL AND ARCHITRAVE;
   RE: SPEC SECTION 04 01 40
8. RE-FLASH AND SEAL AS REQ.
   TO MITIGATE MOISTURE INFILTRATION AT WINDOW AND STOREFRONT REPLACEMENTS; RE: SHEETS A502, A503, & A504 FOR DETAILS.
9. NOT USED
10. STRIP/ REMOVE PAINT FROM STEEL, SAND SURFACE, AND PAINT TO MATCH EP1. REPLACE SEALANT BTWN BRICK & COLUMN.
11. REMOVE CABINET VENTS AS REQUIRED PER MECHANICAL AND INFILL WITH NEW BRICK. TOOTH IN NEW BRICKS, MATCH EXISTING PATTERN.
12. REMOVE AND REPLACE BRICKS AT INDICATED LOCATIONS. TOOTH IN NEW BRICKS, MATCH EXISTING PATTERN,
    RE: SPEC SECTION 04 01 00
13. PRESSURE WASH AND CLEAN EXISTING LIMESTONE BASE, RE: SPEC SECTION 04 01 00
14. CLEAN EXISTING NATURAL STONE SILLS AND BANDING, REMOVE AND REPLACE SEALANT AT ALL JOINTS, RE: SPEC SECTION 04 01 00 & 04 01 40

EXTERIOR MATERIAL LEGEND

SM1 = SHEET METAL TYPE 1
07 62 00.A13 **COPING**
BOD: N/A
COLOR: MATCH EXISTING FLASHING
SIZE/ PATTERN: PER DETAILS

UM1 = UNIT MASONRY TYPE 1
04 20 00.A12 **FACE BRICK**
BOD: BOWERSTON
COLOR: 70% #1310 CHERRY FLASH
30% #501 CORDOVAN
MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM2 = UNIT MASONRY TYPE 2
04 20 00.A12 **FACE BRICK**
BOD: BELDEN
COLOR: GARDEN BLD, MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM3 = UNIT MASONRY TYPE 3
04 72 00.A01 **CAST STONE**
BOD: CONTINENTAL CAST STONE
COLOR: MATCH EXISING
SIZE/ PATTERN: MATCH EXISTING

EP1 = EXTERIOR PAINT
09 91 13 **EXTERIOR PAINTING**
BOD: SHERWIN WILLIAMS
COLOR: RE: EXTERIOR NOTE #3;
SW 9165 GOSSAMER VEIL
SW 7004 SNOWBOUND
SW 7008 ALABASTER

AF1 = ALUMINUM FRAMES
08 41 13 **ALUMINUM FRAMED ENTRANCES AND STOREFRONTS**
BOD: KAWNEER
COLOR: CLEAR ANODIZED

SW1 = STEEL WINDOWS
08 41 23 **STEEL FRAMED ENTRANCES AND STOREFRONTS**
BOD: HOPES WINDOWS
COLOR: ARCHITECT TO SELECT FROM MANUFACTURERS STANDARD RANGE OF COLORS

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. DO NOT SCALE THIS DRAWING
3. WALL MOUNTED LIGHT FIXTURES, LAMBS TONGUES AND OTHER MEP ITEMS ARE SHOWN FOR PLACEMENT ONLY
4. REFER TO SHEET A204 FOR PHOTOS OF EXISTING CONDITIONS.
5. AT AREAS WHERE EXISTING MEP ITEMS ARE NOTED TO BE REMOVED FROM THE BUILDING EXTERIOR, ANY DAMAGE TO THE BUILDING ENVELOPE IS TO BE PATCHED AND REPAIRED.

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100% CONSTRUCTION DOCUMENTS

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
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CHECKED BY: JB
DATE: 12.07.2023

A201

EXTERIOR ELEVATIONS - OVERALL

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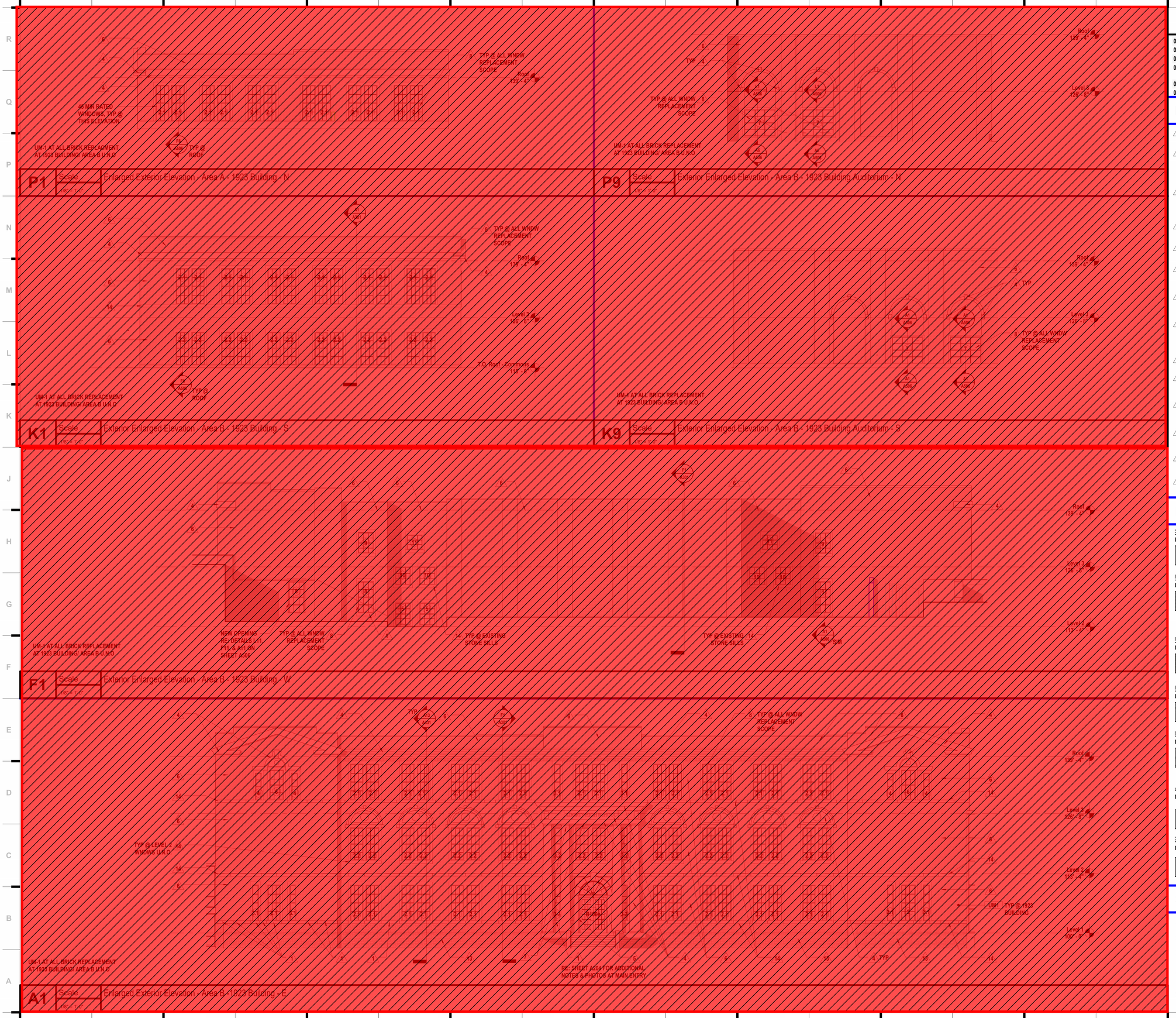
Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
04 72 00.A01	CAST STONE
07 62 00.A13	COPING
08 41 13	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
08 41 23	STEEL FRAMED ENTRANCES AND STOREFRONTS
09 91 13	EXTERIOR PAINTING

EXTERIOR NOTES

1. NEW CAST STONE SILL, FIELD VERIFY TO MATCH EXISTING STONE SILL PROFILE
2. PATCH & REPAIR EXISTING CAST IN PLACE CONCRETE SILL BETWEEN BRICK AND FOUNDATION WALL; REMOVE EXISTING SEALANT AND ADD NEW SEALANT BETWEEN CIP SILL AND EXISTING BRICK
   RE: SHEET A204 FOR PHOTOS
3. PATCH & REPAIR EXISTING CAST IN PLACE FOUNDATION WALL; PAINT EXISTING CONCRETE WALL. PROVIDE IN PLACE MOCKUP OF PAINT COLORS AS SELECTED BY ARCHITECT FOR APPROVAL.; RE: SPEC SECTION 09 91 13
4. CLEAN EXISTING COLUMNS, ARCHITRAVE, AND STONE ORNAMENTATION, RE: SHEET A204 FOR PHOTOS.
5. PATCH & REPAIR PUNCTURES AND RUST STAINS AT EXISTING NATURAL STONE, RE: SPEC SECTION 04 01 40
6. REPOINT AND REPAIR MORTAR JOINTS - 100% OF WALL AREA AT BUILDING ELEVATIONS INDICATED ON SHEETS A202 & A203, RE: SPEC SECTION 04 01 40
7. EXISTING HISTORIC NATURAL STONE RESTORATION ON COLUMN CAPITAL AND ARCHITRAVE;
   RE: SPEC SECTION 04 01 40
8. RE-FLASH AND SEAL AS REQ.
   TO MITIGATE MOISTURE INFILTRATION AT WINDOW AND STOREFRONT REPLACEMENTS; RE: SHEETS A502, A503, & A504 FOR DETAILS.
9. NOT USED
10. STRIP/ REMOVE PAINT FROM STEEL, SAND SURFACE, AND PAINT TO MATCH EP1. REPLACE SEALANT BTWN BRICK & COLUMN.
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12. REMOVE AND REPLACE BRICKS AT INDICATED LOCATIONS. TOOTH IN NEW BRICKS, MATCH EXISTING PATTERN, RE: SPEC SECTION 04 01 00
13. PRESSURE WASH AND CLEAN EXISTING LIMESTONE BASE, RE: SPEC SECTION 04 01 00
14. CLEAN EXISTING NATURAL STONE SILLS AND BANDING, REMOVE AND REPLACE SEALANT AT ALL JOINTS, RE: SPEC SECTION 04 01 00 & 04 01 40

EXTERIOR MATERIAL LEGEND

SM1 = SHEET METAL TYPE 1
07 62 00.A13 COPING
BOD: N/A
COLOR: MATCH EXISTING FLASHING
SIZE/ PATTERN: PER DETAILS

UM1 = UNIT MASONRY TYPE 1
04 20 00.A12 FACE BRICK
BOD: BOWERSTON
COLOR: 70% #1310 CHERRY FLASH
30% #501 CORDOVAN
MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM2 = UNIT MASONRY TYPE 2
04 20 00.A12 FACE BRICK
BOD: BELDEN
COLOR: GARDEN BLD, MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM3 = UNIT MASONRY TYPE 3
04 72 00.A01 CAST STONE
BOD: CONTINENTAL CAST STONE
COLOR: MATCH EXISING
SIZE/ PATTERN: MATCH EXISTING

EP1 = EXTERIOR PAINT
09 91 13 EXTERIOR PAINTING
BOD: SHERWIN WILLIAMS
COLOR: RE: EXTERIOR NOTE #3;
SW 9165 GOSSAMER VEIL
SW 7004 SNOWBOUND
SW 7008 ALABASTER

AF1 = ALUMINUM FRAMES
08 41 13 ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
BOD: KAWNEER
COLOR: CLEAR ANODIZED

SW1 = STEEL WINDOWS
08 41 23 STEEL FRAMED ENTRANCES AND STOREFRONTS
BOD: HOPES WINDOWS
COLOR: ARCHITECT TO SELECT FROM MANUFACTURERS STANDARD RANGE OF COLORS

SHEET NOTES

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(Not included in this Bid Package)

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DRAWN BY: ARH/HB
CHECKED BY: JB
DATE: 12.07.2023

A202

EXTERIOR ELEVATIONS - ENLARGED - 1920 BUILDING

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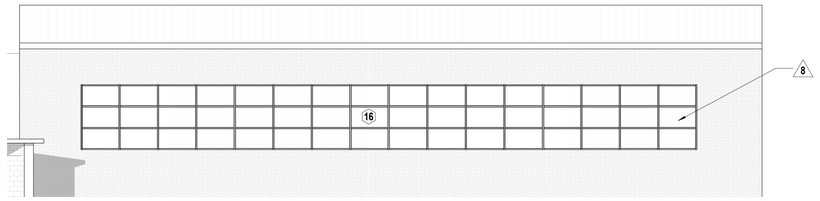
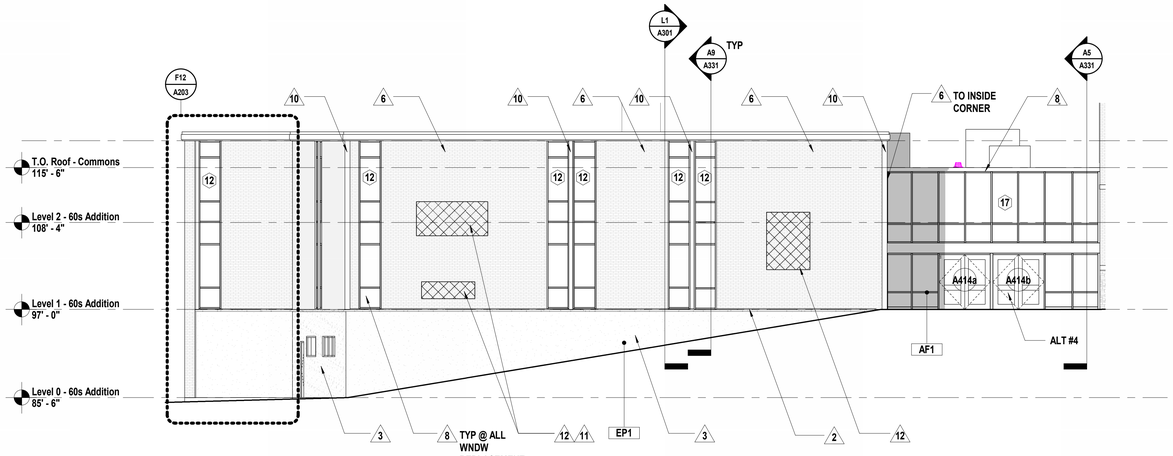
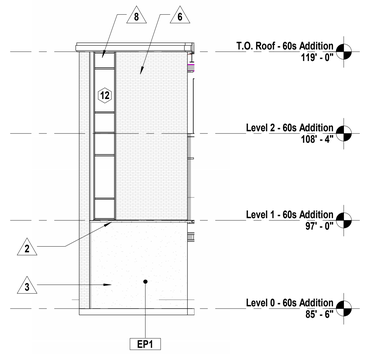


M1 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation - Area C - Gym - N



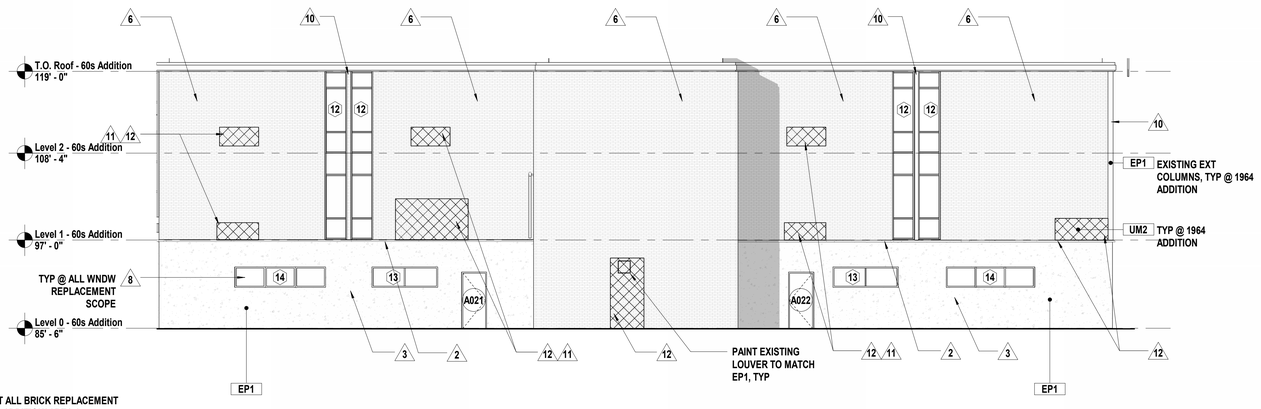
UM-2 AT ALL BRICK REPLACEMENT AT 1964 ADDITION/ AREA A

F1 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation - Area A -1964 Addition - E



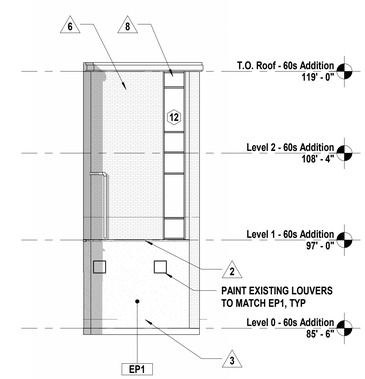
UM-2 AT ALL BRICK REPLACEMENT AT 1964 ADDITION/ AREA A

F12 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation - Area A -1964 Addition - E Bump Out



UM-2 AT ALL BRICK REPLACEMENT AT 1964 ADDITION/ AREA A

A1 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation - Area A -1964 Addition - S



UM-2 AT ALL BRICK REPLACEMENT AT 1964 ADDITION/ AREA A

A12 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation - Area A -1964 Addition - W Bump Out

SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
04 72 00.A01	CAST STONE
07 62 00.A13	COPING
08 41 13	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
08 41 23	STEEL FRAMED ENTRANCES AND STOREFRONTS
09 91 13	EXTERIOR PAINTING

EXTERIOR NOTES

1. NEW CAST STONE SILL, FIELD VERIFY TO MATCH EXISTING STONE SILL PROFILE
2. PATCH & REPAIR EXISTING CAST IN PLACE CONCRETE SILL BETWEEN BRICK AND FOUNDATION WALL; REMOVE EXISTING SEALANT AND ADD NEW SEALANT BETWEEN CIP SILL AND EXISTING BRICK
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   RE: SPEC SECTION 04 01 40
8. RE-FLASH AND SEAL AS REQ.
   TO MITIGATE MOISTURE INFILTRATION AT WINDOW AND STOREFRONT REPLACEMENTS; RE: SHEETS A502, A503, & A504 FOR DETAILS.
9. NOT USED
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12. REMOVE AND REPLACE BRICKS AT INDICATED LOCATIONS. TOOTH IN NEW BRICKS, MATCH EXISTING PATTERN,
    RE: SPEC SECTION 04 01 00
13. PRESSURE WASH AND CLEAN EXISTING LIMESTONE BASE, RE: SPEC SECTION 04 01 00
14. CLEAN EXISTING NATURAL STONE SILLS AND BANDING, REMOVE AND REPLACE SEALANT AT ALL JOINTS, RE: SPEC SECTION 04 01 00 & 04 01 40

EXTERIOR MATERIAL LEGEND

SM1 = SHEET METAL TYPE 1
07 62 00.A13 COPING
BOD: N/A
COLOR: MATCH EXISTING FLASHING
SIZE/ PATTERN: PER DETAILS

UM1 = UNIT MASONRY TYPE 1
04 20 00.A12 FACE BRICK
BOD: BOWERSTON
COLOR: 70% #1310 CHERRY FLASH
30% #501 CORDOVAN
MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM2 = UNIT MASONRY TYPE 2
04 20 00.A12 FACE BRICK
BOD: BELDEN
COLOR: GARDEN BLD, MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM3 = UNIT MASONRY TYPE 3
04 72 00.A01 CAST STONE
BOD: CONTINENTAL CAST STONE
COLOR: MATCH EXISING
SIZE/ PATTERN: MATCH EXISTING

EP1 = EXTERIOR PAINT
09 91 13 EXTERIOR PAINTING
BOD: SHERWIN WILLIAMS
COLOR: RE: EXTERIOR NOTE #3;
SW 9165 GOSSAMER VEIL
SW 7004 SNOWBOUND
SW 7008 ALABASTER

AF1 = ALUMINUM FRAMES
08 41 13 ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
BOD: KAWNEER
COLOR: CLEAR ANODIZED

SW1 = STEEL WINDOWS
08 41 23 STEEL FRAMED ENTRANCES AND STOREFRONTS
BOD: HOPES WINDOWS
COLOR: ARCHITECT TO SELECT FROM MANUFACTURERS STANDARD RANGE OF COLORS

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: ARH/HB
CHECKED BY: JB
DATE: 12.07.2023

A203

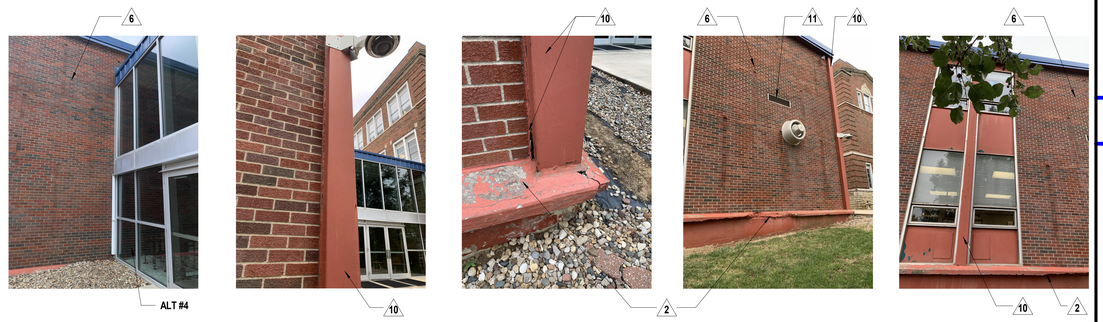
EXTERIOR ELEVATIONS - ENLARGED - 1964 ADDITION

12/8/2023 12:21:37 PM

Please consider the environment before printing this.



N1 | Scale 12" = 1'-0" | 1964 Addition - Overall - Southeast Corner
FOR REFERENCE ONLY

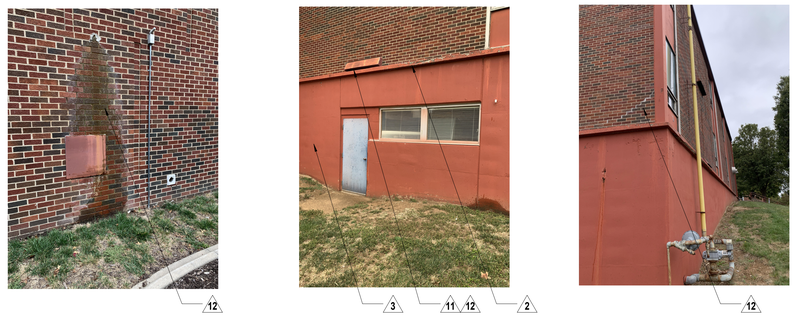


N8 | Scale 12" = 1'-0" | 1964 Addition - North/East Elevation





J1 | Scale 12" = 1'-0" | 1964 Addition - Overall - South
FOR REFERENCE ONLY



J8 | Scale 12" = 1'-0" | 1964 Addition - South Elevation



E1 | Scale 1/8" = 1'-0" | 1823 Building - Overall Main Entry
FOR REFERENCE ONLY

E5 | Scale 1/8" = 1'-0" | 1823 Building - Main Entry

A1 | Scale 1/8" = 1'-0" | 1823 Building - East Elevation

A10 | Scale 1/8" = 1'-0" | 1823 Building - Auditorium / Roof Level Windows

SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
04 72 00.A01	CAST STONE
07 62 00.A13	COPING
08 41 13	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
08 41 23	STEEL FRAMED ENTRANCES AND STOREFRONTS
09 91 13	EXTERIOR PAINTING

EXTERIOR NOTES

1. NEW CAST STONE SILL, FIELD VERIFY TO MATCH EXISTING STONE SILL PROFILE
2. PATCH & REPAIR EXISTING CAST IN PLACE CONCRETE SILL BETWEEN BRICK AND FOUNDATION WALL; REMOVE EXISTING SEALANT AND ADD NEW SEALANT BETWEEN CIP SILL AND EXISTING BRICK
   RE: SHEET A204 FOR PHOTOS
3. PATCH & REPAIR EXISTING CAST IN PLACE FOUNDATION WALL; PAINT EXISTING CONCRETE WALL. PROVIDE IN PLACE MOCKUP OF PAINT COLORS AS SELECTED BY ARCHITECT FOR APPROVAL.; RE: SPEC SECTION 09 91 13
4. CLEAN EXISTING COLUMNS, ARCHITRAVE, AND STONE ORNAMENTATION, RE: SHEET A204 FOR PHOTOS.
5. PATCH & REPAIR PUNCTURES AND RUST STAINS AT EXISTING NATURAL STONE, RE: SPEC SECTION 04 01 40
6. REPOINT AND REPAIR MORTAR JOINTS - 100% OF WALL AREA AT BUILDING ELEVATIONS INDICATED ON SHEETS A202 & A203, RE: SPEC SECTION 04 01 40
7. EXISTING HISTORIC NATURAL STONE RESTORATION ON COLUMN CAPITAL AND ARCHITRAVE;
   RE: SPEC SECTION 04 01 40
8. RE-FLASH AND SEAL AS REQ.
   TO MITIGATE MOISTURE INFILTRATION AT WINDOW AND STOREFRONT REPLACEMENTS; RE: SHEETS A502, A503, & A504 FOR DETAILS.
9. NOT USED
10. STRIP/ REMOVE PAINT FROM STEEL, SAND SURFACE, AND PAINT TO MATCH EP1. REPLACE SEALANT BTWN BRICK & COLUMN.
11. REMOVE CABINET VENTS AS REQUIRED PER MECHANICAL AND INFILL WITH NEW BRICK. TOOTH IN NEW BRICKS, MATCH EXISTING PATTERN.
12. REMOVE AND REPLACE BRICKS AT INDICATED LOCATIONS. TOOTH IN NEW BRICKS, MATCH EXISTING PATTERN,
    RE: SPEC SECTION 04 01 00
13. PRESSURE WASH AND CLEAN EXISTING LIMESTONE BASE, RE: SPEC SECTION 04 01 00
14. CLEAN EXISTING NATURAL STONE SILLS AND BANDING, REMOVE AND REPLACE SEALANT AT ALL JOINTS, RE: SPEC SECTION 04 01 00 & 04 01 40

EXTERIOR MATERIAL LEGEND

SM1 = SHEET METAL TYPE 1
07 62 00.A13 COPING
BOD: N/A
COLOR: MATCH EXISTING FLASHING
SIZE/ PATTERN: PER DETAILS

UM1 = UNIT MASONRY TYPE 1
04 20 00.A12 FACE BRICK
BOD: BOWERSTON
COLOR: 70% #1310 CHERRY FLASH
30% #501 CORDOVAN
MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM2 = UNIT MASONRY TYPE 2
04 20 00.A12 FACE BRICK
BOD: BELDEN
COLOR: GARDEN BLD, MATCH EXISTING TEXTURE
SIZE/ PATTERN: MODULAR/ RUNNING BOND
MATCH EXISTING PATTERN

UM3 = UNIT MASONRY TYPE 3
04 72 00.A01 CAST STONE
BOD: CONTINENTAL CAST STONE
COLOR: MATCH EXISING
SIZE/ PATTERN: MATCH EXISTING

EP1 = EXTERIOR PAINT
09 91 13 EXTERIOR PAINTING
BOD: SHERWIN WILLIAMS
COLOR: RE: EXTERIOR NOTE #3;
SW 9165 GOSSAMER VEIL
SW 7004 SNOWBOUND
SW 7008 ALABASTER

AF1 = ALUMINUM FRAMES
08 41 13 ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
BOD: KAWNEER
COLOR: CLEAR ANODIZED

SW1 = STEEL WINDOWS
08 41 23 STEEL FRAMED ENTRANCES AND STOREFRONTS
BOD: HOPES WINDOWS
COLOR: ARCHITECT TO SELECT FROM MANUFACTURERS STANDARD RANGE OF COLORS

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

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2. DO NOT SCALE THIS DRAWING
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A204

EXTERIOR PHOTOS

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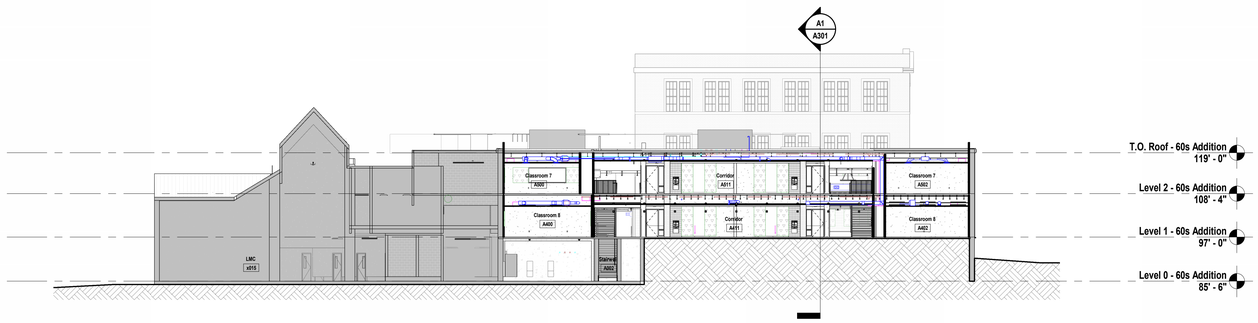
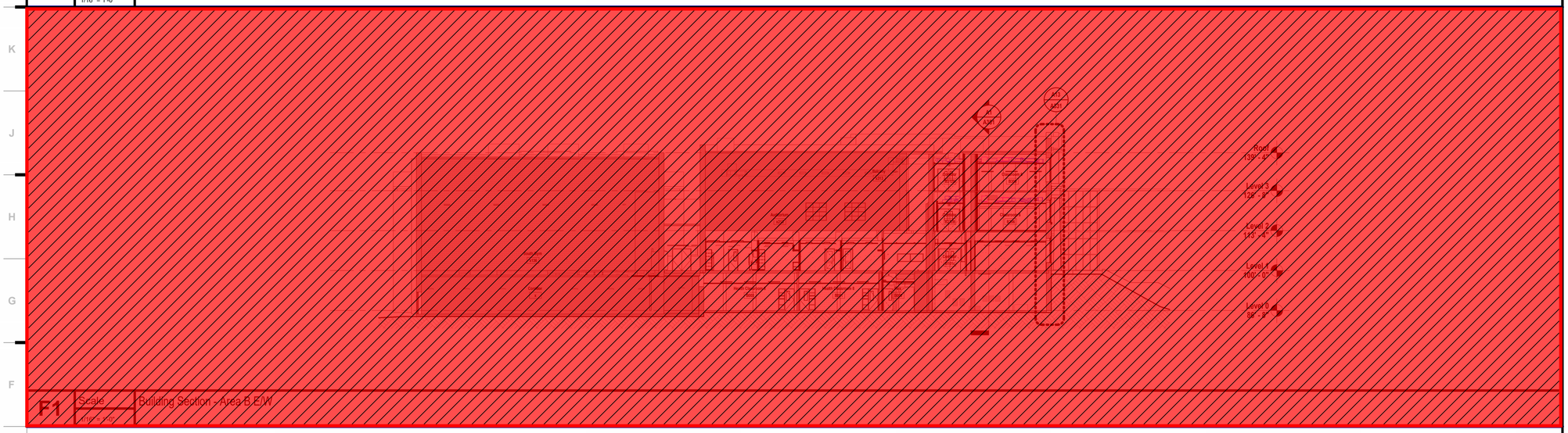
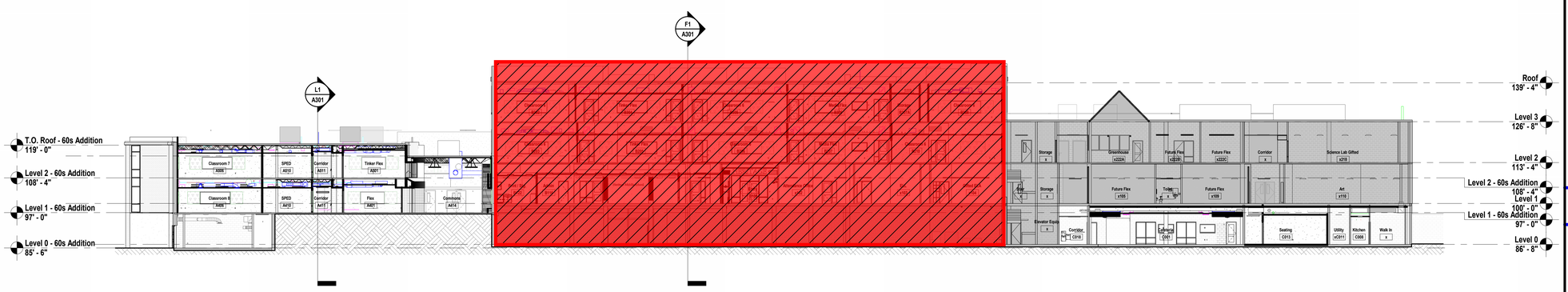


L1 Scale 1/16" = 1'-0" — Building Section - Area A - E/W



F1 Scale 1/16" = 1'-0" — Building Section - Area B E/W



A1 Scale 1/16" = 1'-0" — Building Section - N/S

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. DO NOT SCALE THIS DRAWING
3. REFER TO INTERIOR ELEVATIONS, FOR PLACEMENT OF ALL WALL MOUNTED ITEMS
4. WALL MOUNTED LIGHT FIXTURES, GRILLES AND OTHER MEP ITEMS ARE SHOWN FOR PLACEMENT ONLY

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A301

BUILDING SECTIONS

12/8/2023 12:22:07 PM

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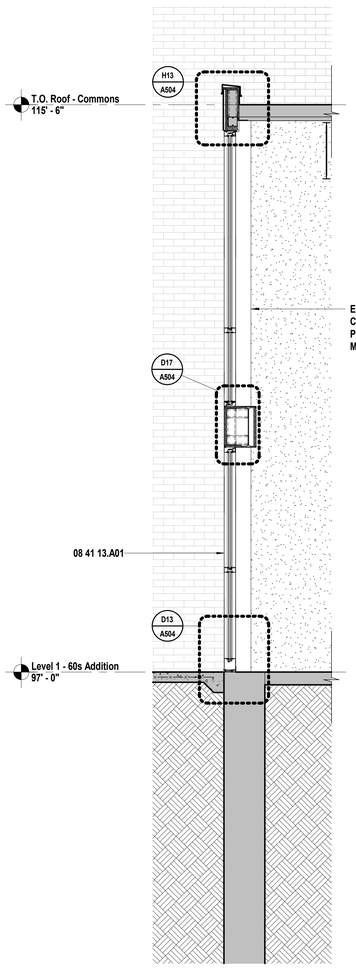

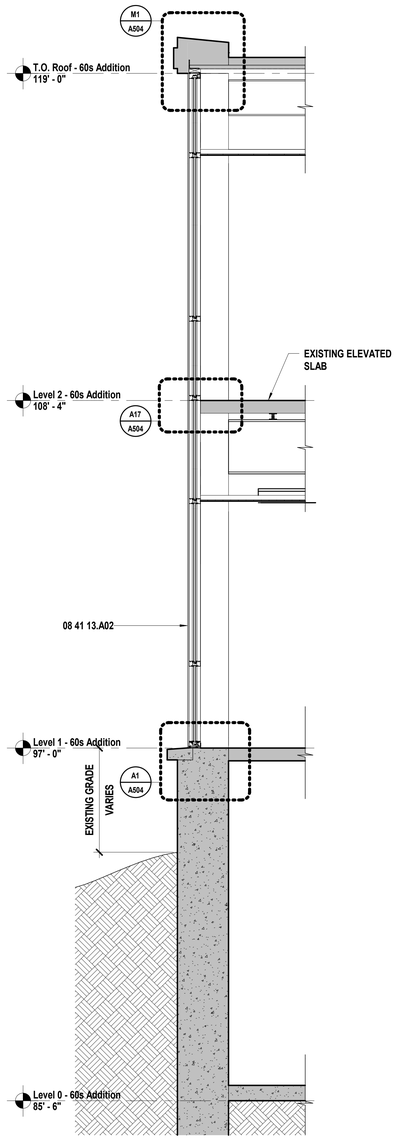

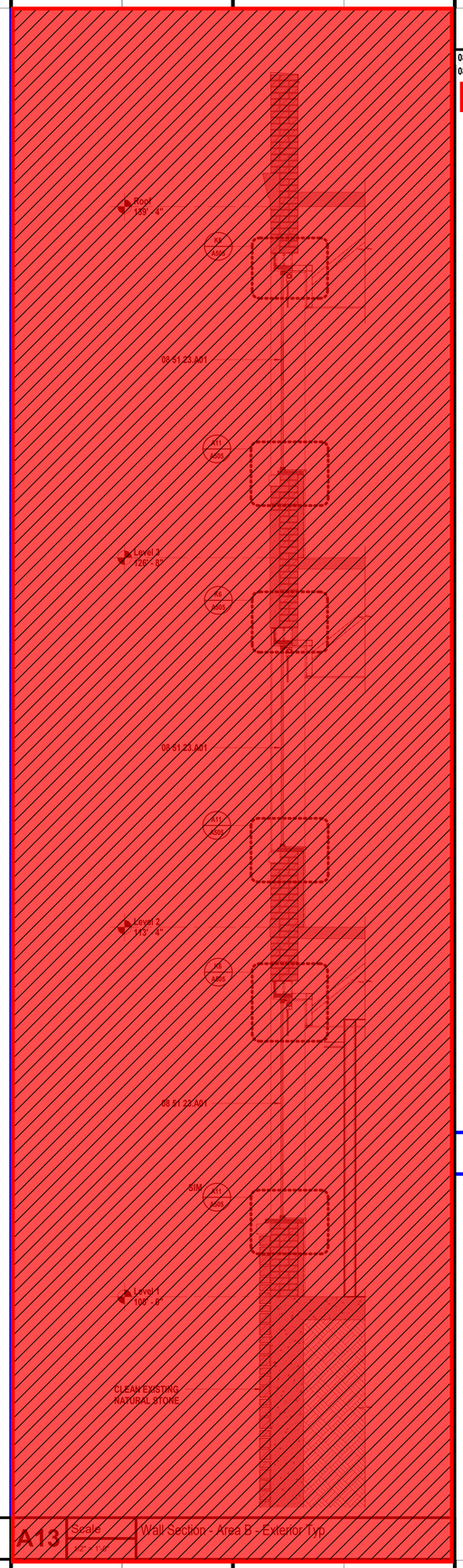

SHEET KEYNOTE LEGEND

08 41 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A02	THERMAL BROKEN STOREFRONT FRAMING (6")

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

1. PATCH AND REPAIR SURROUNDING GYP/PLASTER/FINISH WALL SURFACE AS NEEDED AT ALL WALL LOCATIONS FOR DEMO & REINSTALLATION OF NEW DOORS, WINDOWS, AND STOREFRONT FRAMING.
2. REMOVE AND REPLACE DETERIORATED OR DAMAGED HEAD/JAMB/SILL MATERIAL AS NEEDED WITH NEW BLOCKING. VERIFY W/ ARCHITECT.
3. ALL PERIMETER ALUMINUM SNAP TRIM TO BE REMOVED AT ALL NEW WINDOW REPLACEMENT LOCATIONS AT 1923 BUILDING.
4. EXISTING WALL CONDITIONS SHOWN TO THE BEST OF AVAILABLE KNOWLEDGE BY SITE OBSERVATIONS AND AVAILABLE AS-BUILT DRAWINGS. CONNECTIONS TO EXISTING HEAD/JAMB/SILL CONDITIONS MAY DIFFER FROM DOCUMENTS. VERIFY IN FIELD AND REPORT ALL DISCREPANCIES TO ARCHITECT BEFORE PROCEEDING WITH NEW WORK.

A5 Scale 1/2" = 1'-0" — Wall Section - Area A - Storefront

A9 Scale 1/2" = 1'-0" — Wall Section - Area A - Classroom Window - Typ

A13 Scale 1/2" = 1'-0" — Wall Section - Area B - Exterior Typ

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A331

WALL SECTIONS - EXTERIOR

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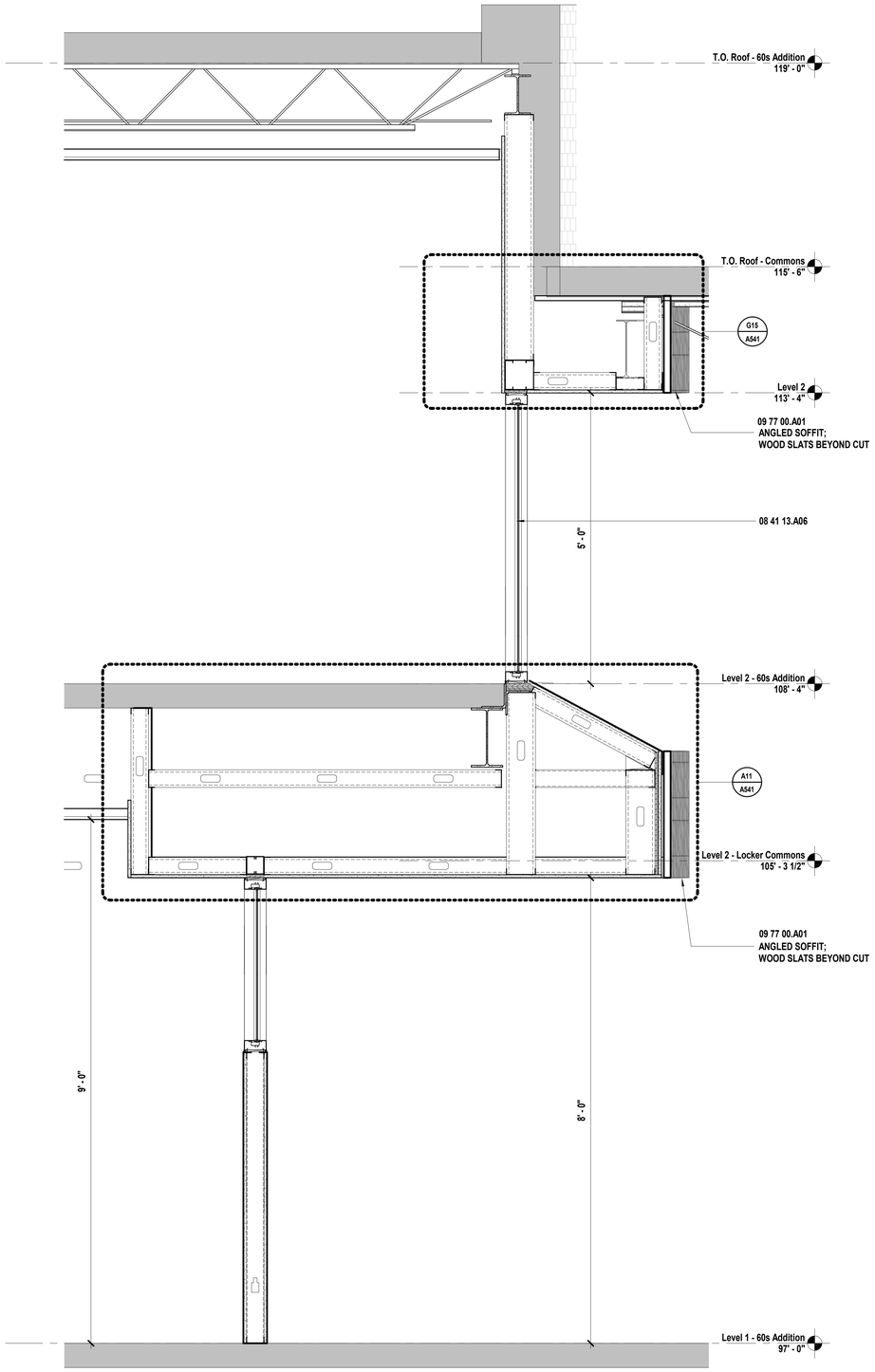
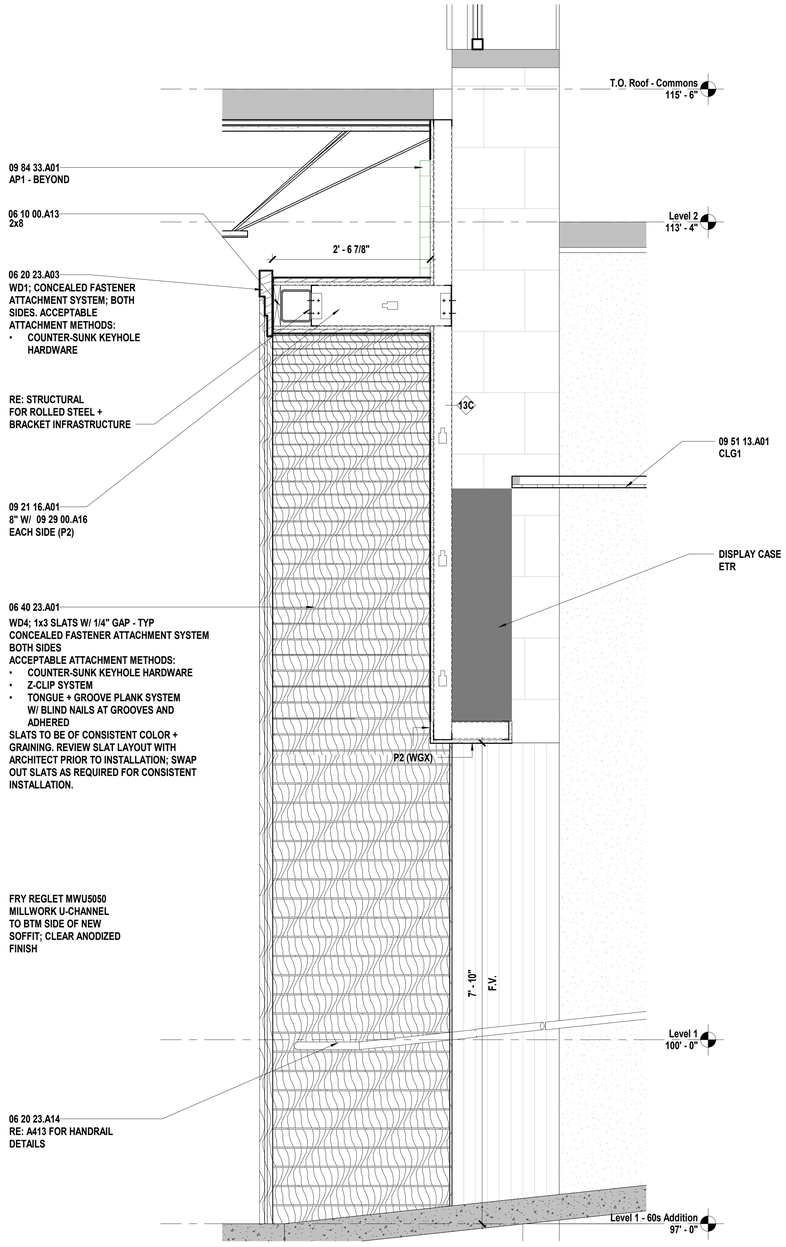


A1 Scale 1" = 1'-0" — Interior Millwork Detail - Commons A414 - West Slat Wall



A10 Scale 1" = 1'-0" — Interior Millwork Detail - Commons A414 - Portal Section

SHEET KEYNOTE LEGEND

06 10 00.A13	WOOD BLOCKING/NAILERS
06 20 23.A03	MOLDINGS - TRANSPARENT
06 20 23.A14	WOOD RAILINGS - INTERIOR
06 40 23.A01	ORNAMENTAL TRIM - TRANSPARENT
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A16	FLEXIBLE GYPSUM BOARD
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 77 00.A01	ARCHITECTURAL WALL CLADDING SYSTEM
09 84 33.A01	SOUND-ABSORBING WALL PANELS

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CHECKED BY: JB
DATE: 12.07.2023

A332

WALL SECTIONS - INTERIOR

12/8/2023 12:22:14 PM

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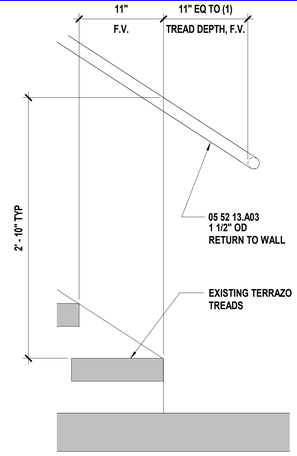
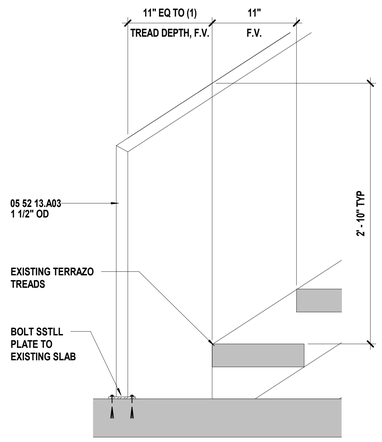
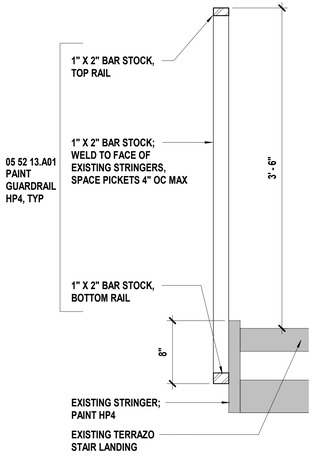


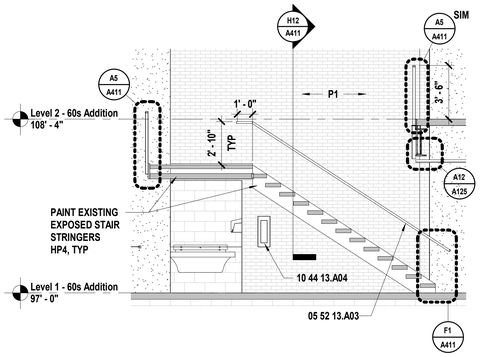
F1 Scale 1 1/2" = 1'-0" — Typical Stainless Steel Handrail - Wall Return (Bottom)



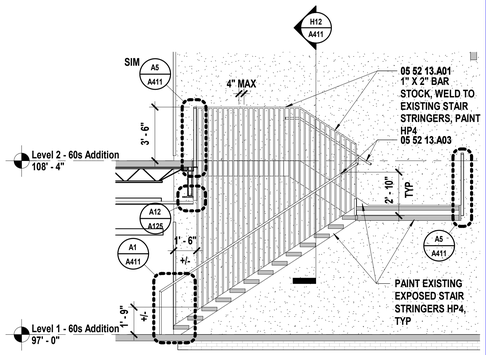
A1 Scale 1 1/2" = 1'-0" — Typical Stainless Steel Handrail - Floor Return (Bottom)



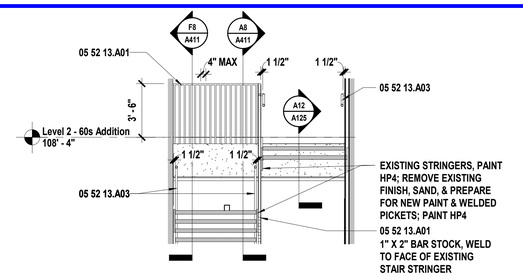
A5 Scale 1 1/2" = 1'-0" — Detail - Guardrail @ Landing/Elevated Slab



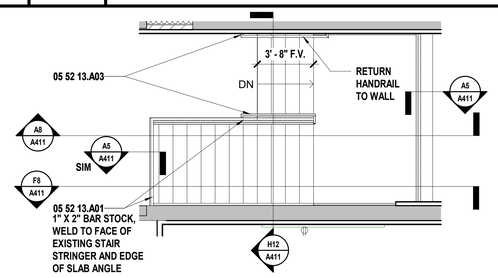
F8 Scale 1/4" = 1'-0" — South Stair Section - 1



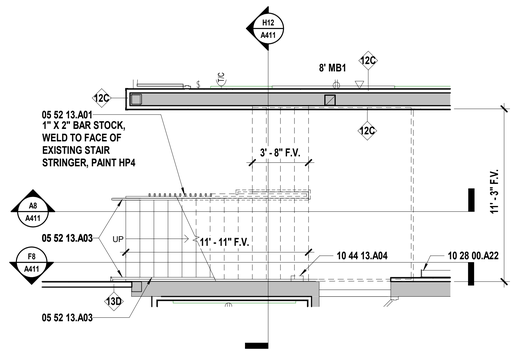
A8 Scale 1/4" = 1'-0" — South Stair Section - 2



H12 Scale 1/4" = 1'-0" — South Stair Section - 3



F12 Scale 1/4" = 1'-0" — Enlarged Plan - Level 2 - Area A - South Stair



A12 Scale 1/4" = 1'-0" — Enlarged Plan - Level 1 - Area A - South Stair

SHEET KEYNOTE LEGEND

05 52 13.A01	STEEL PIPE AND TUBE RAILINGS
05 52 13.A03	STAINLESS STEEL PIPE AND TUBE RAILINGS
10 28 00.A22	UTILITY SHELF
10 44 13.A04	SURFACE MOUNTED STEEL CABINET

SHEET NOTES

1. DO NOT SCALE THIS DRAWING

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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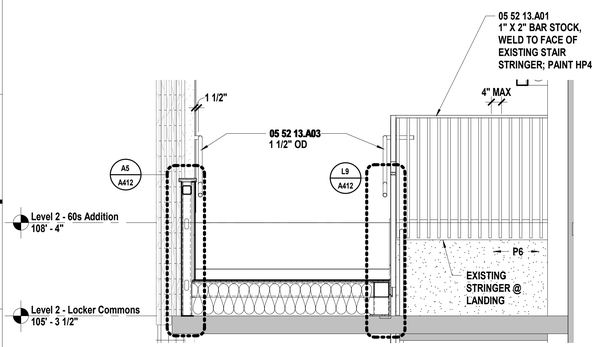
JOB NO: 23024
DRAWN BY: HB
CHECKED BY: JB
DATE: 12.07.2023

A411

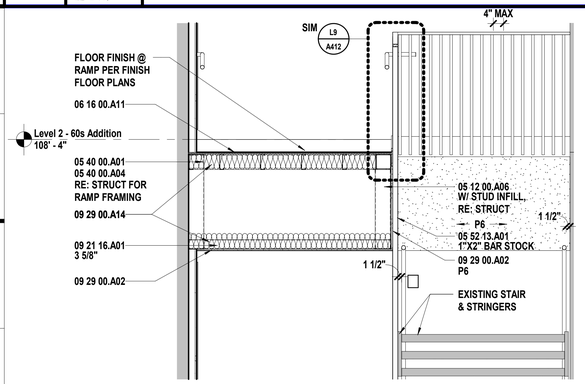
VERTICAL CIRCULATION - AREA A

12/8/2023 12:22:19 PM

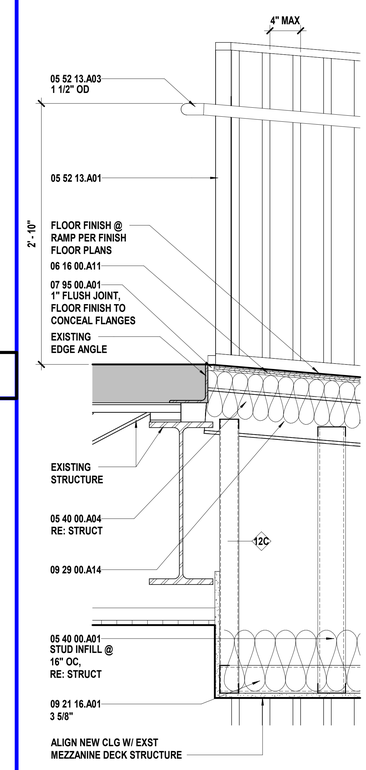
Please consider the environment before printing this.



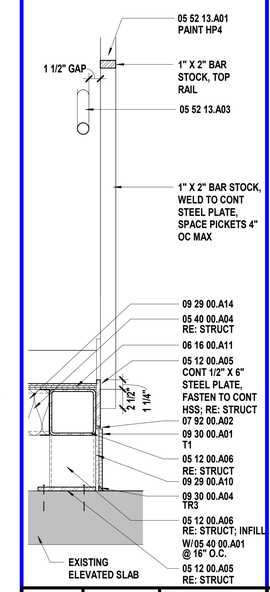
N1 | Scale 1/2" = 1'-0" | North Ramp/Stair Section - 4



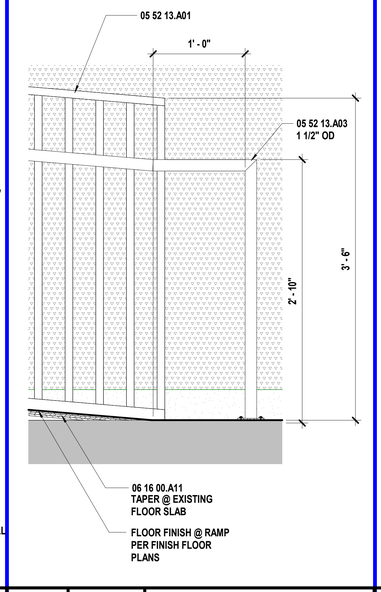
J1 | Scale 1/2" = 1'-0" | North Ramp/Stair Section - 3



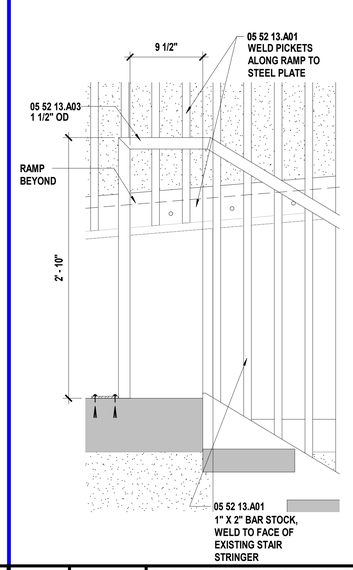
J6 | Scale 1 1/2" = 1'-0" | Detail @ T.O. Ramp



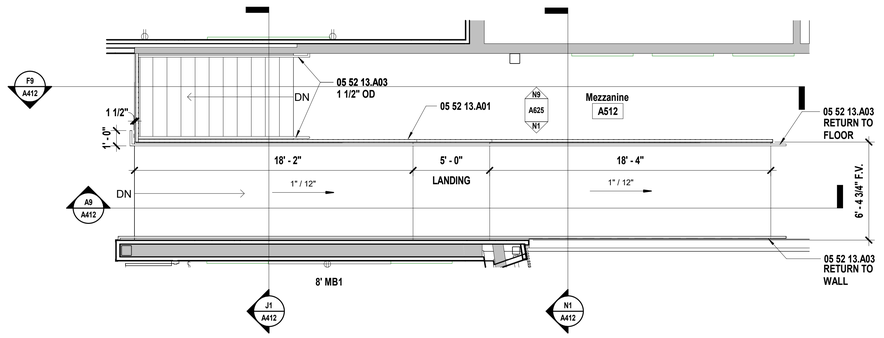
L9 | Scale 1 1/2" = 1'-0" | Detail @ Ramp Guardrail/Handra



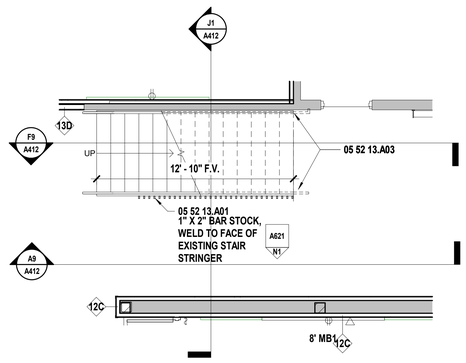
L11 | Scale 1 1/2" = 1'-0" | Detail @ B.O. Ramp



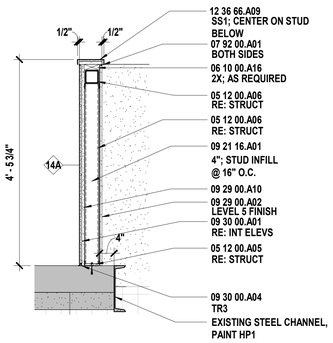
L14 | Scale 1 1/2" = 1'-0" | Typical Stainless Steel Handrail - Floor Return (Top)



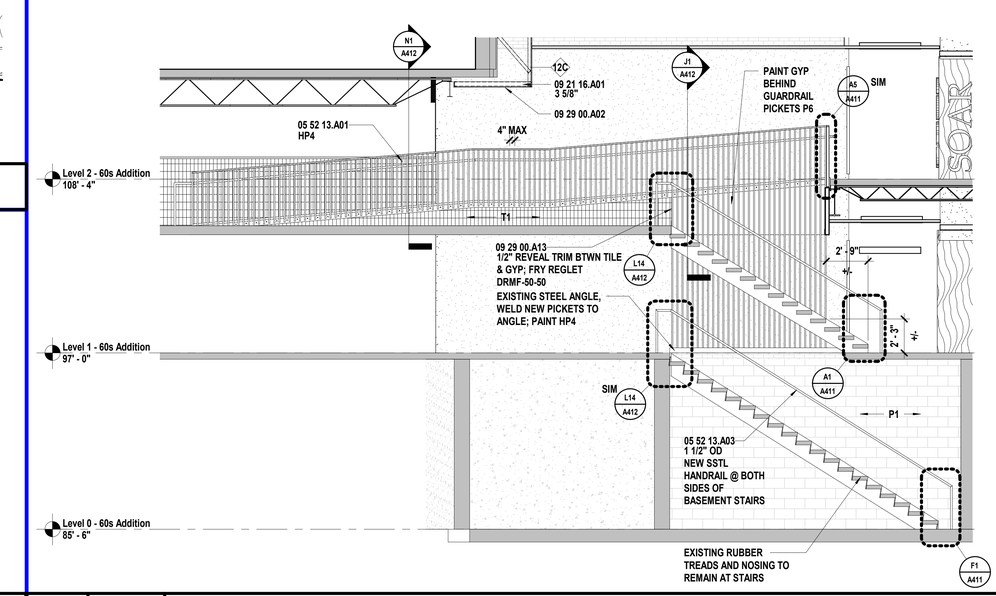
E1 | Scale 1/4" = 1'-0" | Enlarged Plan - Level 2 - Area A - North Stair & New Ramp @ Mezzanine



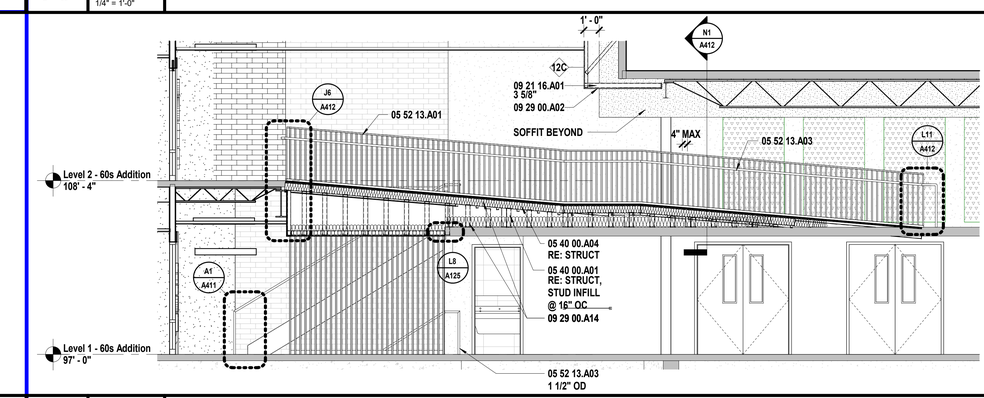
A1 | Scale 1/4" = 1'-0" | Enlarged Plan - Level 1 - Area A - North Stair



A5 | Scale 3/4" = 1'-0" | Interior Millwork Detail - Mezzanine A512 - Tiled Guard Rail



F9 | Scale 1/4" = 1'-0" | North Stair Section - 2



A9 | Scale 1/4" = 1'-0" | North Ramp/Stair Section - 1

SHEET KEYNOTE LEGEND

05 12 00.A05	PLATE AND BAR
05 12 00.A06	HSS SHAPE
05 40 00.A01	COLD-FORMED METAL FRAMING
05 40 00.A04	FLOOR JOIST FRAMING
05 52 13.A01	STEEL PIPE AND TUBE RAILINGS
05 52 13.A03	STAINLESS STEEL PIPE AND TUBE RAILINGS
06 10 00.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 16 00.A11	PLYWOOD SUBFLOORING
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
07 95 00.A01	FLOOR-TO-FLOOR JOINT SYSTEM
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A10	CEMENTITIOUS BACKER UNITS
09 29 00.A13	REVEAL TRIM
09 29 00.A14	SOUND ATTENUATION BLANKETS
09 30 00.A01	TILE
09 30 00.A04	METAL EDGE STRIPS
12 36 66.A09	SOLID SURFACE WALL CAP

SHEET NOTES

1. DO NOT SCALE THIS DRAWING

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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JOB NO: 23024
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CHECKED BY: JB
DATE: 12.07.2023

A412

VERTICAL CIRCULATION - AREA A

12/8/2023 12:22:26 PM

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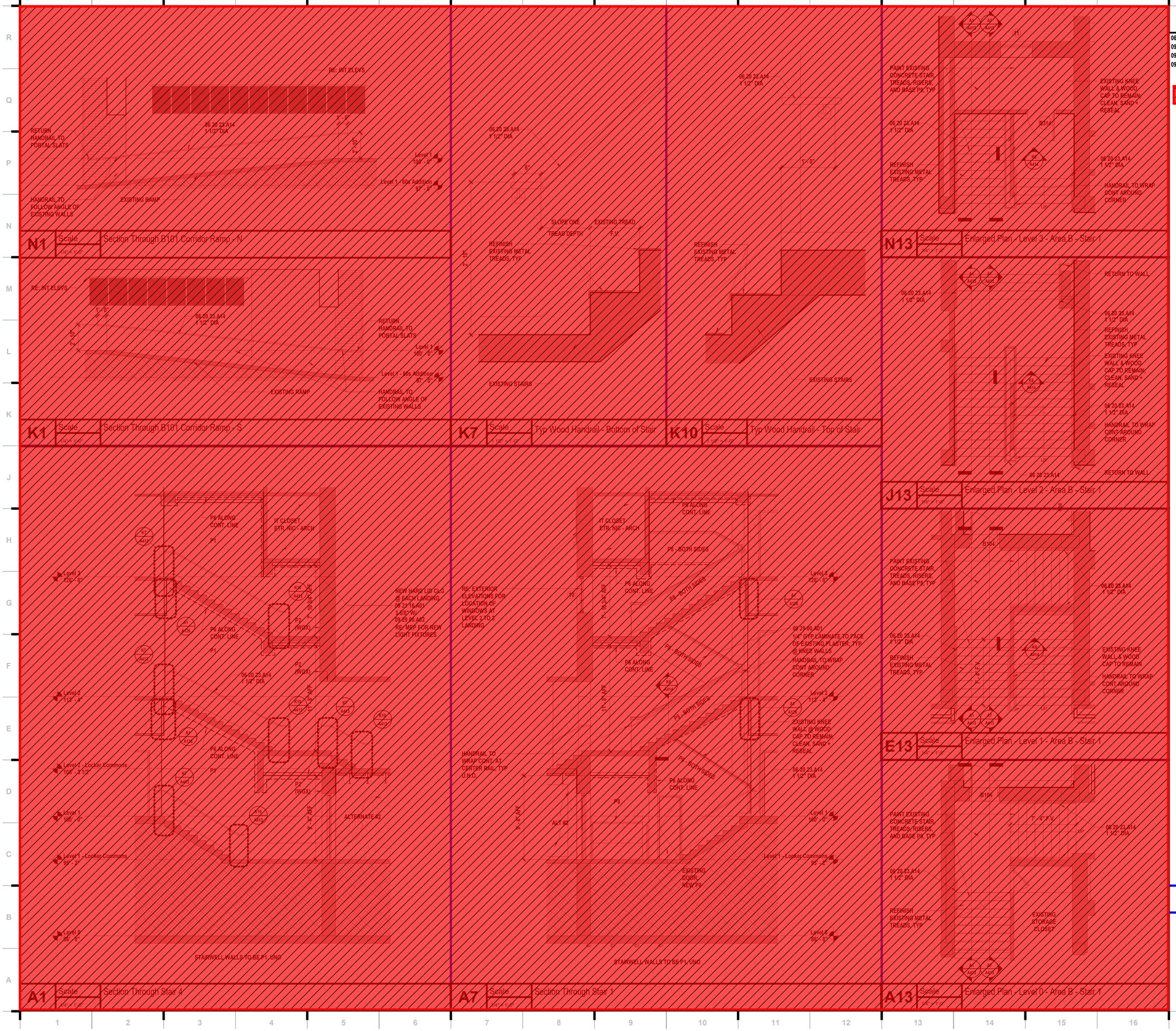

SHEET KEYNOTE LEGEND

06 20 23.A14	WOOD RAILINGS - INTERIOR
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A01	GYPSUM BOARD - REGULAR
09 29 00.A02	GYPSUM BOARD - TYPE X

= Phase 2 Scope of Work
(Not included in this Bid Package)

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CHECKED BY: JB
DATE: 12.07.2023

A413

VERTICAL CIRCULATION - AREA B

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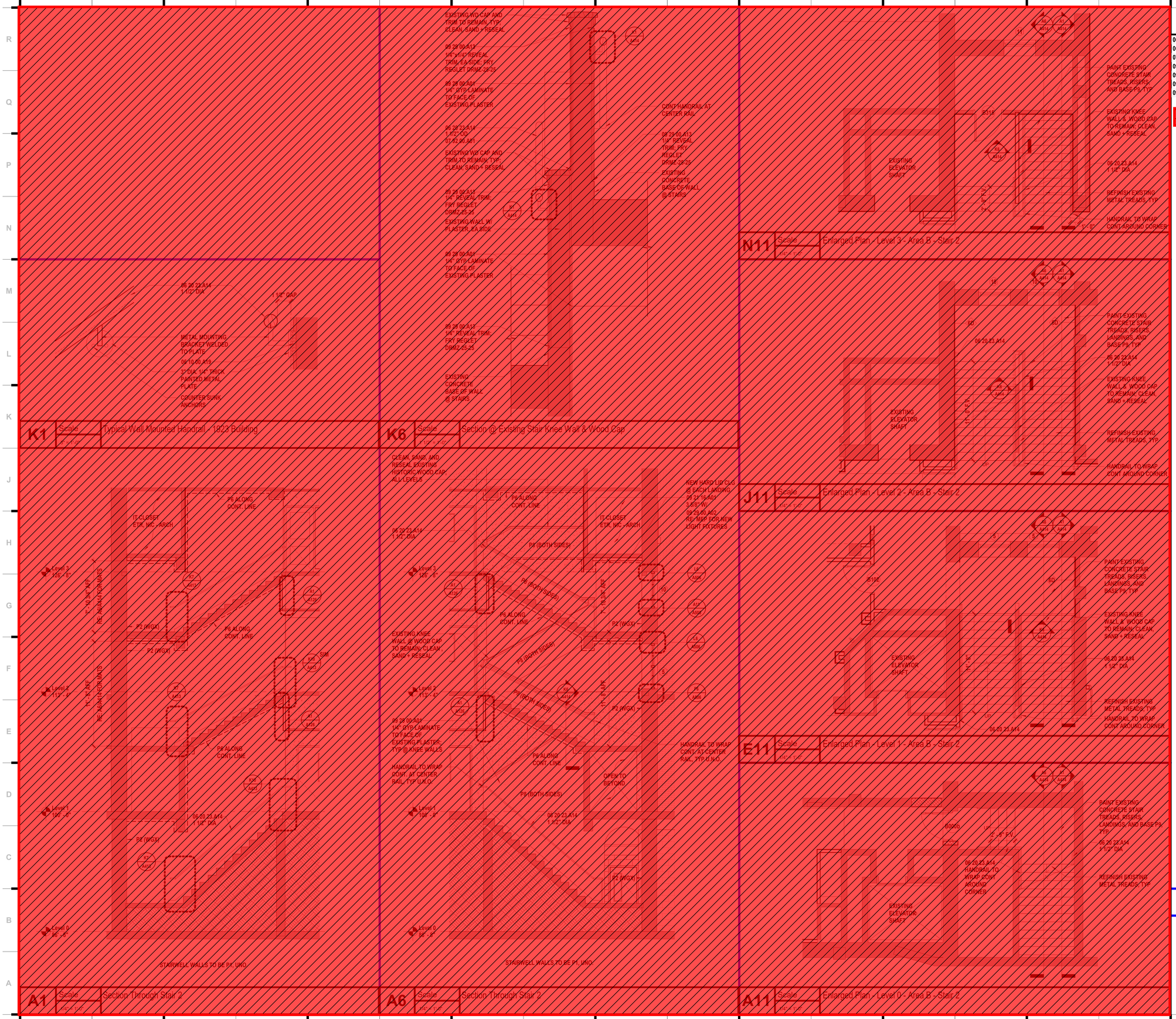

SHEET KEYNOTE LEGEND

06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 20 23.A14	WOOD RAILINGS - INTERIOR
07 92 00.A01	SEALANT
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A01	GYPSUM BOARD - REGULAR
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A13	REVEAL TRIM

= Phase 2 Scope of Work
(Not included in this Bid Package)

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Liberty Public Schools
600 W. Kansas Street
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A414

VERTICAL CIRCULATION - AREA B

12/8/2023 12:22:40 PM

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DOOR SCHEDULE - AREAS A & C

DOOR				Frame		All DETAILS on A521 UNO					
Number	Size	Type	Glass	Type	Material	Head	Strike	Hinge	Thresh	Fire Rating	Remarks
A001	3'-0" x 7'-2" x 1 3/4"	A1	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
A021	3'-0" x 7'-2" x 1 3/4"	A8	--	14	ALUM	H5/A503	D5/A503	D5/A503	A13/A503	--	
A022	3'-0" x 7'-2" x 1 3/4"	A8	--	14	ALUM	H5/A503	D5/A503	D5/A503	A13/A503	--	
A400	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A401a	3'-0" x 7'-10" x 1 3/4"	E1	12	18	ALUM	A11/A541	--	J6/A541	--	--	
A401b	3'-0" x 7'-10" x 1 3/4"	E1	12	18	ALUM	A11/A541	--	A6/A541	--	--	
A401c	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A401d	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A402	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A403	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A404a	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A404b	20'-0" L x 8'-0" H	H1	--			K9	P14	P14	P10	--	
A405a	3'-0" x 7'-2" x 1 3/4"	E1	12	22	ALUM	G3	--	G5	--	--	
A405b	3'-0" x 7'-2" x 1 3/4"	E1	12	22	ALUM	G3	--	G5	--	--	
A406a	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A406b	20'-0" L x 8'-0" H	H1	--			K9	P14	P14	P10	--	
A407	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A409	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A410	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A414a	PR 3'-4" x 7'-2" x 1 3/4"	E10	41	17	ALUM	--	--	--	A13	--	ACCESS CONTROLS
A414b	PR 3'-4" x 7'-2" x 1 3/4"	E10	41	17	ALUM	--	--	--	A13	--	ACCESS CONTROLS
A414e	PR 3'-0" x 7'-2" x 1 3/4"	B3	72	A	HM	A6	--	A10	--	90MIN	HOLD OPENS
A414f	PR 3'-0" x 7'-2" x 1 3/4"	B3	72	A	HM	A6	--	A14/A10	--	90MIN	HOLD OPENS
A500	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A501a	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A501b	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A502	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A503	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A504a	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A504b	20'-0" L x 8'-0" H	H1	--			K9	P14	P14	P10	--	
A505a	3'-0" x 7'-2" x 1 3/4"	E1	12	22	ALUM	G3	--	G5	--	--	
A505b	3'-0" x 7'-2" x 1 3/4"	E1	12	22	ALUM	G3	--	G5	--	--	
A506a	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A506b	20'-0" L x 8'-0" H	H1	--			K9	P14	P14	P10	--	
A507	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A508b	3'-0" x 7'-2" x 1 3/4"	EXIST		EXIST	HM	--	--	--	--	90MIN	EXISTING FRAME WITH NEW P7 - BOTH SIDES
A509	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A510	3'-0" x 7'-2" x 1 3/4	A1	--	B	HM	A4	--	A1	--	--	
A511a	3'-0" x 7'-2" x 1 3/4"	A1		A	HM	A4	A1	A1	--	--	
A511b	3'-0" x 7'-2" x 1 3/4"	A1		A	HM	A4	A1	A1	--	--	ACCESS CONTROLS
A512a	PR 3'-0" x 7'-2" x 1 3/4"	B3	72	A	HM	D4	--	D1/G1	--	20MIN	HOLD OPENS
A512b	PR 3'-0" x 7'-2" x 1 3/4"	B3	72	A	HM	D4	--	A12/D1	--	20MIN	HOLD OPENS
A513	PR 3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	A4	--	A1	--	--	
A514	3'-0" x 7'-2" x 1 3/4"	E1	12	20	ALUM	G3	--	G5	--	--	
C001a	PR 3'-0" x 7'-0" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C001b	3'-0" x 7'-0" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - INTERIOR SIDE
C002a	PR 3'-0" x 7'-2" x 1 3/4"	E1	12	A	HM	D6	--	D10	--	--	
C002c	28'-0" x 9'-0"	J2	--	--	STL	K14	G15	G15	--		
C002d	3'-0" x 7'-2" x 1 3/4"	E1	12	A	HM	A6	D10	A10	--	--	
C003	PR 3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C004a	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C004b	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C012	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM					--	NEW HARDWARE, EXIST DOOR & FRAME
C013a	3'-0" x 7'-2" x 1 3/4"	A1		A	HM	A4	A1	A1	--	--	ACCESS CONTROLS
C014	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	D6	D10	D10	--	--	
C015a	3'-0" x 7'-2" x 1 3/4"	EXIST		EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C015b	3'-0" x 7'-2" x 1 3/4"	EXIST		EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C016a	3'-0" x 7'-2"	--		EXIST	HM	--	--	--	--	--	CASED OPENING
C016b	2'-6" x 7'-2" x 1 3/4"	A1		EXIST	HM	--	--	--	--	--	NEW DOOR IN EXISTING FRAME
C017a	3'-0" x 7'-2"	--		EXIST	HM	--	--	--	--	--	CASED OPENING
C017b	2'-6" x 7'-2" x 1 3/4"	A1		EXIST	HM	--	--	--	--	--	NEW DOOR IN EXISTING FRAME
C018a	3'-0" x 7'-2" x 1 3/4"	EXIST		EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C018b	3'-0" x 7'-0" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C019	3'-0" x 7'-2" x 1 3/4"	A1	--	EXIST	HM	--	--	--	--	--	NEW DOOR IN EXISTING FRAME
C020	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	D6	D10	D10	--	--	
C021a	3'-0" x 7'-2" x 1 3/4"	A1	--	EXIST	HM	--	--	--	--	--	NEW DOOR IN EXISTING FRAME
C022	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	D6	A10	D10	--	--	
C023	3'-0" x 7'-2" x 1 3/4"	A1	--	EXIST	HM	--	--	--	--	--	NEW DOOR IN EXISTING FRAME
C024	2' - 4" x 7'-0" x 1 3/4"	A1		EXIST	HM	--	--	--	--	--	NEW DOOR IN EXISTING FRAME
C212a	3'-0" x 7'-2" x 1 3/4"	EXIST		EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
C240	4'-0" x 7'-2"	--		A	HM	A6	A10	A10	--	--	CASED OPENING
C241	4'-0" x 7'-2"	--		A	HM	A6	A10	A10	--	--	CASED OPENING

DOOR SCHEDULE - AREA B

DOOR				Frame		All DETAILS on A521 UNO					
Number	Size	Type	Glass	Type	Material	Head	Strike	Hinge	Thresh	Fire Rating	Remarks
B101a	PR 3'-4" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	B1	--	20MIN	HOLD OPENS
B101b	3'-0" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	A11/A10	A11/A10	--	20MIN	HOLD OPENS
B101c	PR 3'-6" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B101a	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B101b	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B002	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B003	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B004	3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B005	3'-0" x 7'-2" x 1 3/4"	A1		EXIST	HM	--	--	--	--	--	NEW DOOR, EXISTING FRAME
B007	3'-0" x 7'-2" x 1 3/4"	A1		EXIST	HM	--	--	--	--	--	NEW DOOR, EXISTING FRAME
B100a	PR 3'-0" x 7'-2" x 1 3/4"	D11	A1	1	STL	A13/A504	--	E1/A504	A7/A504	--	ACCESS CONTROLS
B100b	PR 3'-0" x 7'-2" x 1 3/4"	E1	12	21	ALUM	--	--	--	--	--	ACCESS CONTROLS
B101a	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	A11/A542.8IM	--	20MIN	HOLD OPENS
B101b	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	A11/A542	--	20MIN	HOLD OPENS
B101c	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	A13/A542	--	20MIN	HOLD OPENS
B101d	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	A18/A542.8IM	--	20MIN	HOLD OPENS
B101e	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	K17	--	G17	--	--	
B101f	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	K17	--	G17	--	--	
B101g	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	K17	--	G17	--	--	
B101h	3'-0" x 7'-0" x 1 3/4 existing	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B101i	PR 3'-0" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B101j	3'-0" x 7'-2" x 1 3/4"	F1	--	F	WD	K17	--	G17	--	--	
B101k	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	K17	G17	G17	--	--	
B101m	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B102	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B103	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	K17	--	G17	--	--	
B104	3'-0" x 7'-2" x 1 3/4"	B3	--	A	HM	D4	D1	D1	--	20MIN	HOLD OPEN
B105a	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B105b	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	K17	G17	G17	--	--	
B105	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B107	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B108	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	D17	A17	A17	--	--	
B109	3'-0" x 7'-2" x 1 3/4"	A	--	I	WD	D17	A17	A17	--	--	
B110	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B111	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B113	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B114	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B115	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	D17	A17	A17	--	--	
B117	3'-0" x 7'-2" x 1 3/4"	F1	--	F	WD	D17	A17	A17	--	--	
B118	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B119	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B120	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B121	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B122	3'-0" x 7'-2" x 1 3/4"	E1	12	G	WD	D17	A17	A17	--	--	
B123	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	D17	A17	A17	--	--	ACCESS CONTROLS
B201	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17	G17	G17	--	--	
B202	3'-0" x 7'-2" x 1 3/4"	F1	--	E	WD	D17	--	A17	--	--	
B203	3'-0" x 7'-2" x 1 3/4"	F1	--	E	WD	D17	--	A17	--	--	
B204	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	D17	A17	A17	--	--	
B205a	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	D17	--	A17	--	20MIN	
B205b	8'-0" x 7'-2"	G1	42	--		G12	D12	D12	D14	--	
B205c	20'-0" L x 8'-0" H	H1	--			K9	P14	P14	P10	--	
B205d	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	D17	--	A17	--	--	
B206	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	D17	--	A17	--	--	
B207a	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	D17	--	A17	--	--	
B207b	20'-0" L x 8'-0" H	H1	--			K9	P14	P14	P10	--	
B207c	8'-0" x 7'-2"	G1	42	--		G12	D12	D12	D14	--	
B207d	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	D17	--	A17	--	--	
B209	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17	G17	G17	--	--	
B210	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	K17	--	G17	--	--	
B211	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	K17	--	G17	--	--	
B212a	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	G11/A542	--	20MIN	HOLD OPENS
B212b	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	G15/A542	--	20MIN	HOLD OPENS
B212c	PR 3'-6" x 7'-2" x 1 3/4"	EXIST	--	EXIST	HM	--	--	--	--	--	EXISTING FRAME WITH NEW P7 - BOTH SIDES
B213a	PR 3'-6" x 7'-2" x 1 3/4"	F1	--	G	WD	K17.SIM	--	G17.SIM	--	--	
B213b	PR 3'-6" x 7'-2" x 1 3/4"	F1	--	G	WD	K17.SIM	--	G17.SIM	--	--	
B301	3'-0" x 7'-2" x 1 3/4"	F1	--	E	WD	D17	--	A17	--	--	
B302	3'-0" x 7'-2" x 1 3/4"	F1	--	E	WD	D17	--	A17	--	--	
B304a	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	D17	--	A17	--	--	
B304b	8'-0" x 7'-2"	G1	42	--		G12	D12	D12	D14	--	
B304c	20'-0" L x 10'-0" H	H1	--			K9	P14	P14	P10	--	
B304d	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	D17	--	A17	--	--	
B305	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	D17	--	A17	--	--	
B306a	3'-0" x 7'-2" x 1 3/4"	F1	--	D	WD	D17	--	A17	--	--	
B306b	20'-0" L x 10'-0" H	H1	--			K9	P14	P14	P10	--	
B306c	8'-0" x 7'-2"	G1	42	--		G12	D12	D12	D14	--	
B306d	3'-0" x 7'-2" x 1 3/4	F1	--	D	WD	D17	--	A17	--	--	
B307a	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	D17	A17	A17	--	--	
B307b	8'-0" x 7'-2"	G1	42	--		G12	D12	D12	D14	--	
B308	3'-0" x 7'-2" x 1 3/4"	F1	--	E	WD	D17	--	A17	--	--	
B309	3'-0" x 7'-2" x 1 3/4"	F1	--	E	WD	D17	--	A17	--	--	
B308a	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17	G17	G17	--	--	
B311	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17	G17	G17	--	--	
B312a	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	G11/A542	--	20MIN	HOLD OPENS
B312c	PR 3'-6" x 7'-2" x 1 3/4"	B3	74	A	HM	A4	--	G15/A542	--	20MIN	HOLD OPENS
B312a	PR 3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17.SIM	--	G17.SIM	--	--	
B312b	PR 3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17.SIM	--	G17.SIM	--	--	
B314	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17	G17	G17	--	--	
B315	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	K17	G17	G17	--	--	
B316	3'-0" x 7'-2" x 1 3/4"	F1	--	G	WD	D17	A17	A17	--	--	

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

GLASS LEGEND

GLASS TYPE = 1

FULLY-TEMPERED MONOLITHIC FLOAT GLASS

11 08 80 00.A11 1/4" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
12 08 80 00.A12 3/8" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
13 08 80 00.A13 1/2" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS

INSULATING GLASS

31 08 80 00.A31 LOW-E CLEAR INSULATED GLASS

INSULATING FULL-TEMPERED GLASS

41 08 80 00.A41 LOW-E CLEAR INSULATED FULLY-TEMPERED GLASS
42 08 80 00.A42 CLEAR INSULATED FULLY-TEMPERED GLASS

SPANDREL GLASS

62 08 80 00.A62 LOW-E INSULATED SPANDREL GLASS

FIRE GLASS

72 08 80 00.A72 90 MINUTE FIRE-RESISTIVE GLASS
74 08 80 00.A74 20 MINUTE FIRE-PROTECTIVE GLASS
75 08 80 00.A75 45 MINUTE FIRE-PROTECTIVE GLASS

SPECIALTY/DECORATIVE GLASS

92 08 80 00.A92 CUSTOM - LOW-E TINTED ACID-ETCHED INSULATING GLASS

DOOR TYPE NOTES

1. REFER TO DOOR SCHEDULE FOR OVERALL DOOR DIMENSIONS
2. DIMENSIONS ASSOCIATED WITH VISION LITES ARE TO THE OUTSIDE OF THE VISION LITE FRAME UNLESS NOTED OTHERWISE
3. REFER TO DOOR SCHEDULE TO DETERMINE WHICH DOORS ARE REQUIRED TO BE FIRE RATED
4. REFER TO DOOR SCHEDULE FOR GLASS TYPES IN DOORS

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mha Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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CHECKED BY: JB
DATE: 12.07.2023

A501

DOOR SCHEDULE

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SHEET KEYNOTE LEGEND

08 33 26.A01	OVERHEAD COILING GRILLES
08 41 13.A16	ALUMINUM SLIDING DOOR
10 22 38.A02	OPERABLE PANEL PARTITION (PAIRED PANEL)
12 21 13.A01	HORIZONTAL LOUVER BLINDS (MANUAL)

GLASS LEGEND

GLASS TYPE = 1

FULLY-TEMPERED MONOLITHIC FLOAT GLASS

11 08 80 00.A11 1/4" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
12 08 80 00.A12 3/8" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
13 08 80 00.A13 1/2" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS

INSULATING GLASS

31 08 80 00.A31 LOW-E CLEAR INSULATED GLASS

INSULATING FULL-TEMPERED GLASS

41 08 80 00.A41 LOW-E CLEAR INSULATED FULLY-TEMPERED GLASS
42 08 80 00.A42 CLEAR INSULATED FULLY-TEMPERED GLASS

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DOOR TYPE NOTES

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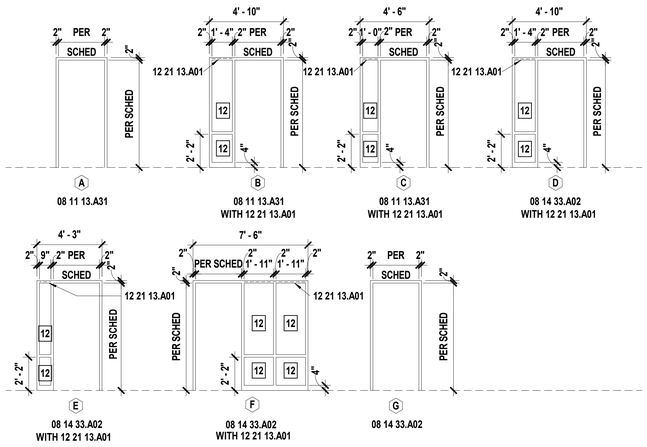
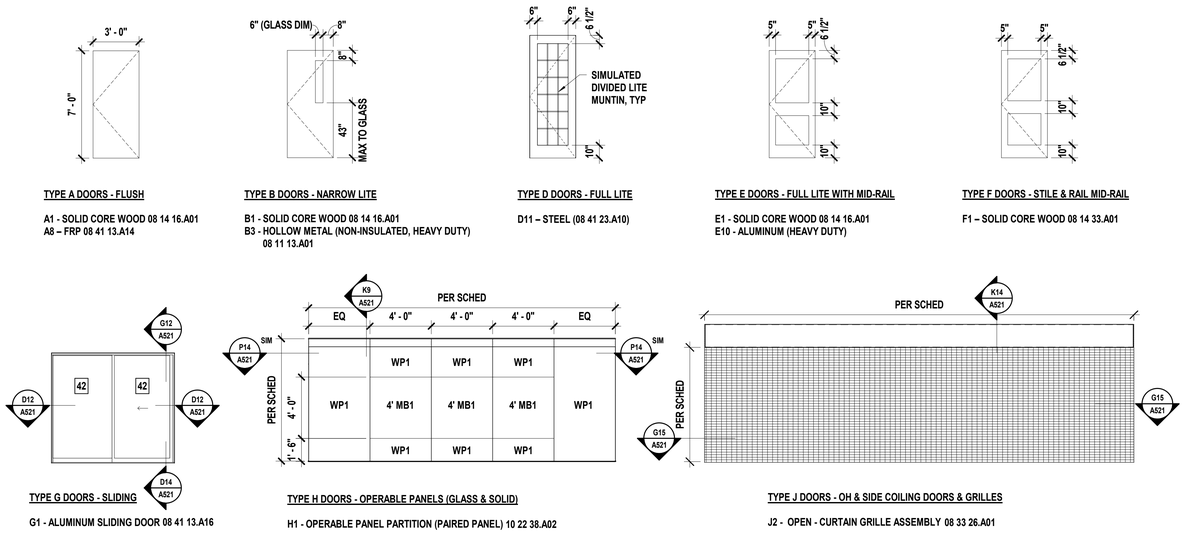
3. REFER TO DOOR SCHEDULE TO DETERMINE WHICH DOORS ARE REQUIRED TO BE FIRE RATED
4. REFER TO DOOR SCHEDULE FOR GLASS TYPES IN DOORS





A1 Scale 1/4" = 1'-0" — Hollow Metal Frame Types

A7 Scale 1/4" = 1'-0" — Door Types

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Liberty Public Schools

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REVISIONS:

#	Description	Date

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KEVIN E. NELSON
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ARCHITECT

DECEMBER 7, 2023

Kevin E. Nelson
A-2019015618

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A502

DOOR & FRAME TYPES

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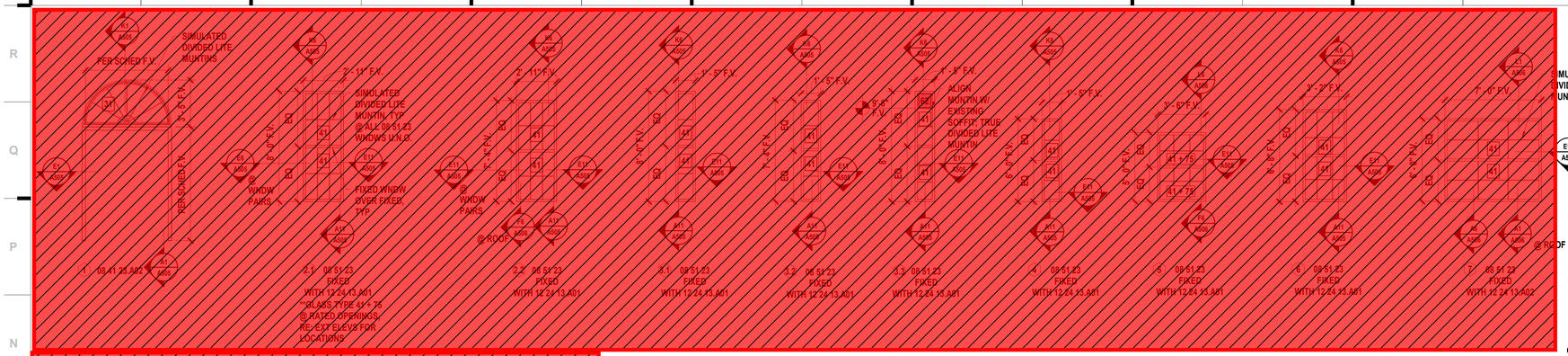
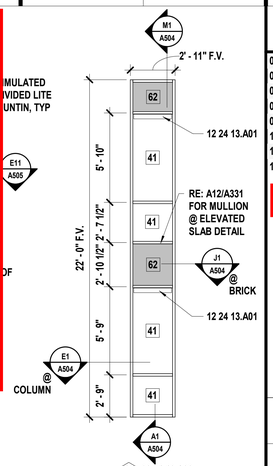
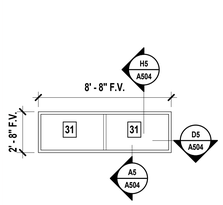
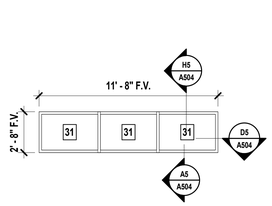
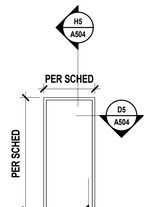
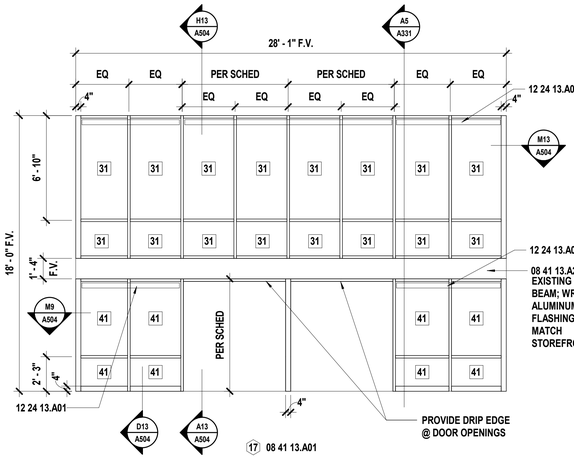


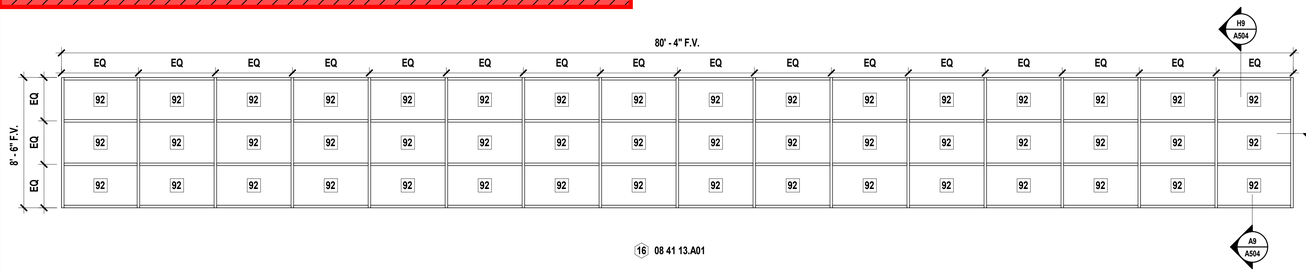




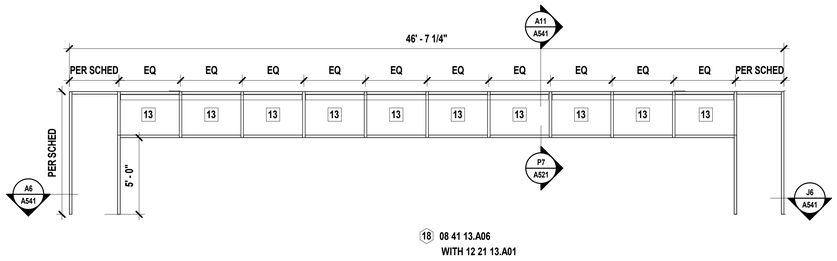


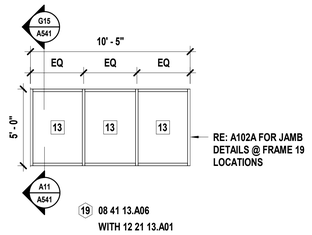


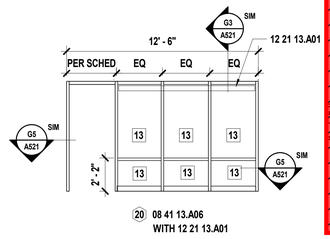


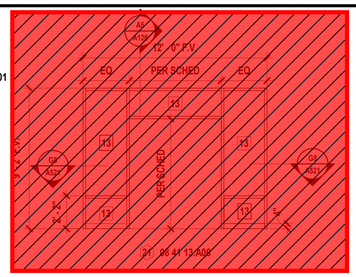


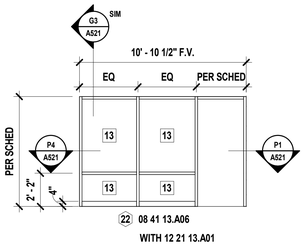
G1 Scale 1/4" = 1'-0" Exterior Steel & Aluminum Frame Types

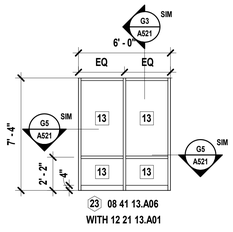


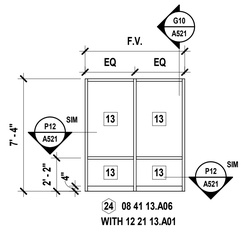


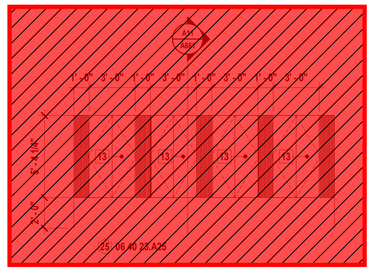


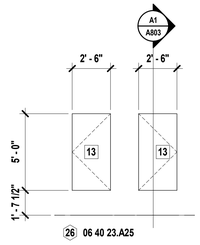












A1 Scale 1/4" = 1'-0" Interior Aluminum Frame Types

SHEET KEYNOTE LEGEND

06 40 23.A25	SWINGING DISPLAY CASE DOOR SYSTEM
08 41 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A02	THERMAL BROKEN STOREFRONT FRAMING (6")
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A23	ALUMINUM PAN FLASHING
12 21 13.A01	HORIZONTAL LOUVER BLINDS (MANUAL)
12 24 13.A01	ROLLER SHADES (MANUAL)
12 24 13.A02	ROLLER SHADES (MOTORIZED)

= Phase 2 Scope of Work
(Not included in this Bid Package)

GLASS LEGEND

GLASS TYPE = 1

FULLY-TEMPERED MONOLITHIC FLOAT GLASS

11 08 80 00.A11 1/4" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
12 08 80 00.A12 3/8" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
13 08 80 00.A13 1/2" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS

INSULATING GLASS

31 08 80 00.A31 LOW-E CLEAR INSULATED GLASS

INSULATING FULL-TEMPERED GLASS

41 08 80 00.A41 LOW-E CLEAR INSULATED FULLY-TEMPERED GLASS
42 08 80 00.A42 CLEAR INSULATED FULLY-TEMPERED GLASS

SPANDREL GLASS

62 08 80 00.A62 LOW-E INSULATED SPANDREL GLASS

FIRE GLASS

72 08 80 00.A72 90 MINUTE FIRE-RESISTIVE GLASS
74 08 80 00.A74 20 MINUTE FIRE-PROTECTIVE GLASS
75 08 80 00.A75 45 MINUTE FIRE-PROTECTIVE GLASS

SPECIALTY/DECORATIVE GLASS

92 08 80 00.A92 CUSTOM - LOW-E TINTED ACID-ETCHED INSULATING GLASS

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: ARH/HB
CHECKED BY: JB
DATE: 12.07.2023

A503

FRAME TYPES

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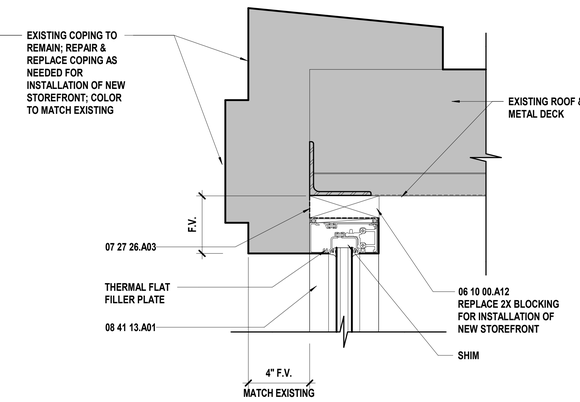
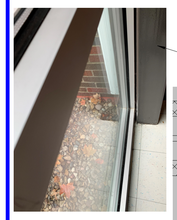
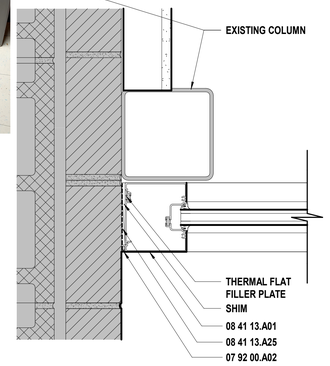
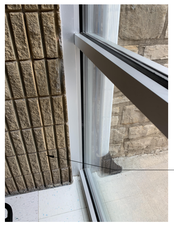


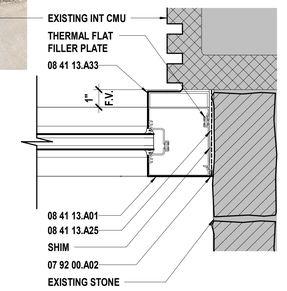
M1 Scale 3" = 1'-0" — Storefront Head @ Coping (1964 Addition)





M9 Scale 3" = 1'-0" — Storefront Jamb @ Commons Entry W





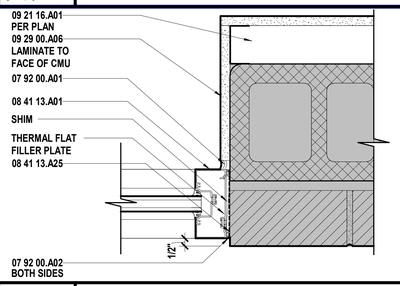
M13 Scale 3" = 1'-0" — Storefront Jamb @ Commons Entry E

SHEET KEYNOTE LEGEND

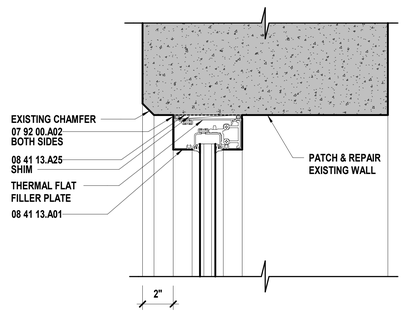
05 40 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A12	PRESERVATIVE TREATED WOOD BLOCKING/NAILERS
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
07 21 00.A12	SPRAY-IN FOAM INSULATION
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 27 26.A03	TRANSITION MEMBRANE
07 51 13.A01	BUILT-UP ASPHALT ROOFING SYSTEM
07 62 00.A01	UNDERLAYMENT
07 62 00.A13	COPING
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 62 00.A36	CLEAT
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 41 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A21	ALUMINUM SUBSILL
08 41 13.A25	JAMB CLOSURE MEMBRANE
08 41 13.A33	MULLION EXTENSION
08 71 00.A01	THRESHOLDS
08 80 00.A62	LOW-E INSULATED SPANDREL GLASS
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A06	MOLD AND MOISTURE RESISTANT GYPSUM BOARD
12 24 13.A02	ROLLER SHADES (MOTORIZED)

SHEET NOTES

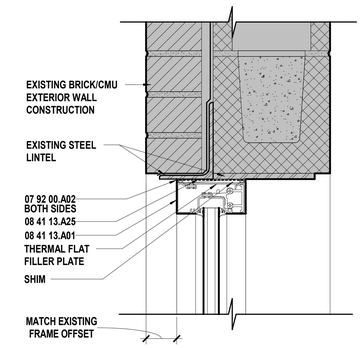
1. PATCH AND REPAIR SURROUNDING GYP/PLASTER/FINISH WALL SURFACE AS NEEDED AT ALL WALL LOCATIONS FOR DEMO & REINSTALLATION OF NEW DOORS, WINDOWS, AND STOREFRONT FRAMING.
2. REMOVE AND REPLACE DETERIORATED OR DAMAGED HEAD/JAMB/SILL MATERIAL AS NEEDED WITH NEW BLOCKING. VERIFY W/ ARCHITECT.
3. ALL PERIMETER ALUMINUM SNAP TRIM TO BE REMOVED AT ALL NEW WINDOW REPLACEMENT LOCATIONS AT 1923 BUILDING.
4. EXISTING WALL CONDITIONS SHOWN TO THE BEST OF AVAILABLE KNOWLEDGE BY SITE OBSERVATIONS AND AVAILABLE AS-BUILT DRAWINGS. CONNECTIONS TO EXISTING HEAD/JAMB/SILL CONDITIONS MAY DIFFER FROM DOCUMENTS. VERIFY IN FIELD AND REPORT ALL DISCREPANCIES TO ARCHITECT BEFORE PROCEEDING WITH NEW WORK.



J1 Scale 3" = 1'-0" — Storefront Jamb @ Brick/CMU (1964 Addition)

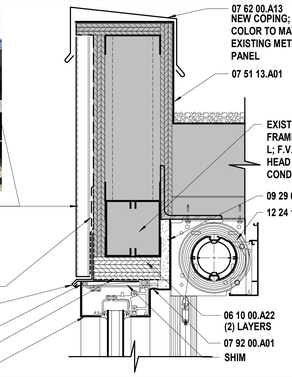


H5 Scale 3" = 1'-0" — Storefront/Alum Door Head @ Concrete (1964 Addition)

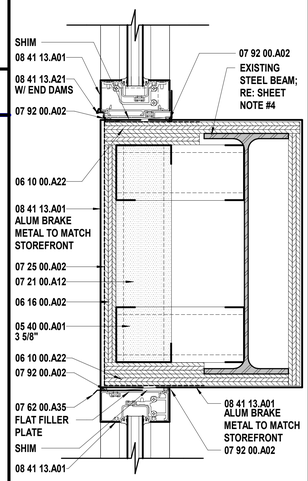


H9 Scale 3" = 1'-0" — Storefront Head @ Existing Brick/CMU (Gym)

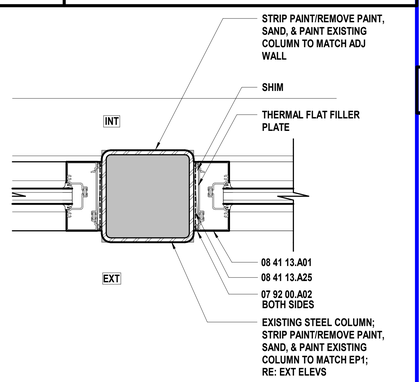




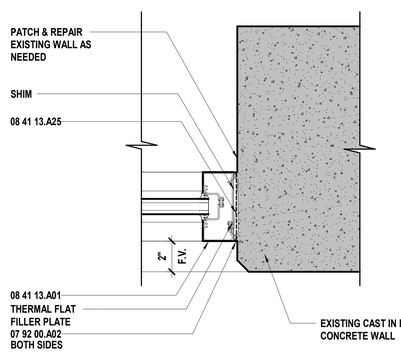
H13 Scale 3" = 1'-0" — Storefront Head @ Commons Entry



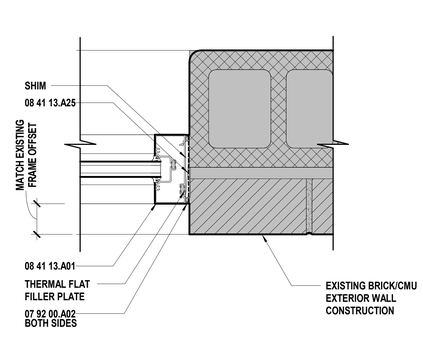
D17 Scale 3" = 1'-0" — Storefront Steel Beam @ Commons Entry



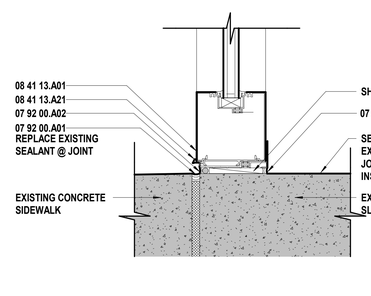
E1 Scale 3" = 1'-0" — Storefront Jamb @ Column (1964 Addition)



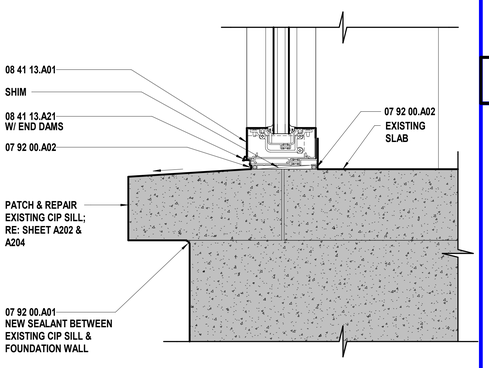
D5 Scale 3" = 1'-0" — Storefront/Alum Door Jamb @ Concrete (1964 Addition)



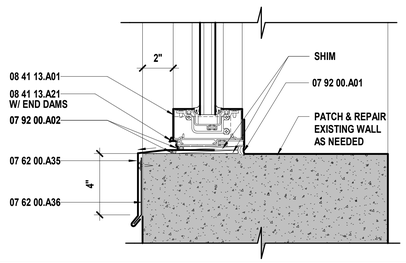
D9 Scale 3" = 1'-0" — Storefront Jamb @ Existing Brick/CMU (Gym)



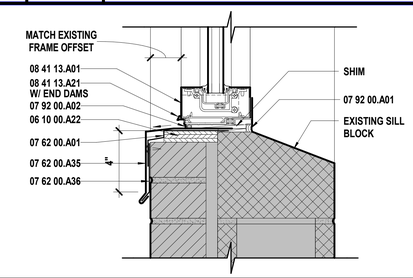
D13 Scale 3" = 1'-0" — Storefront Sill @ Sidewalk



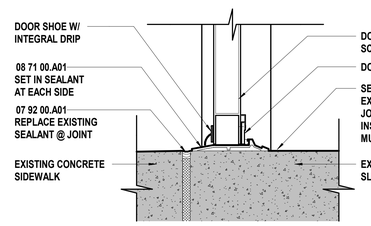
A1 Scale 3" = 1'-0" — Storefront Sill @ Concrete (1964 Bldg)



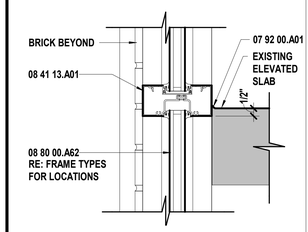
A5 Scale 3" = 1'-0" — Storefront/Alum Door Sill @ Concrete (1964 Addition)



A9 Scale 3" = 1'-0" — Storefront Sill @ Existing Brick/CMU (Gym)



A13 Scale 3" = 1'-0" — Threshold @ Commons Entry



A17 Scale 3" = 1'-0" — Storefront Mullion @ Elevated Slab

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
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REVISIONS:

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STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
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CHECKED BY: JB
DATE: 12.07.2023

A504

DOOR & WINDOW DETAILS 1964 ADDITION - EXTERIOR

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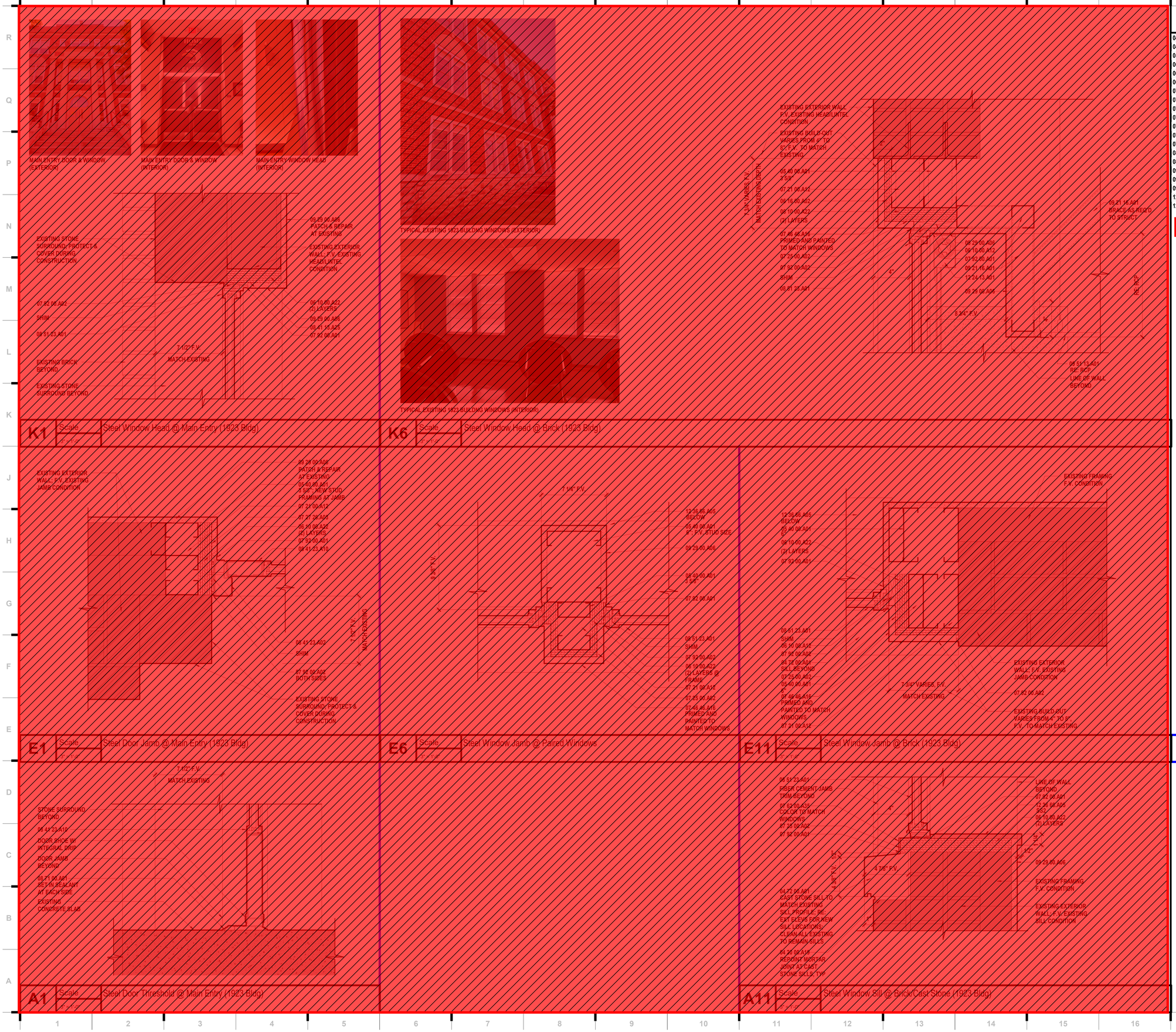

SHEET KEYNOTE LEGEND

04 20 00.A19	MORTAR
04 72 00.A01	CAST STONE
05 40 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A12	PRESERVATIVE TREATED WOOD BLOCKING/NAILERS
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
07 21 00.A12	SPRAY-IN FOAM INSULATION
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 27 26.A03	TRANSITION MEMBRANE
07 46 46.A16	FIBER-CEMENT TRIM
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 41 13.A25	JAMB CLOSURE MEMBRANE
08 71 00.A01	THRESHOLDS
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A06	MOLD AND MOISTURE RESISTANT GYPSUM BOARD
09 51 13.A01	ACOUSTICAL CEILING PANELS
12 24 13.A01	ROLLER SHADES (MANUAL)
12 36 66.A05	SOLID SURFACE SILL

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

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A505

DOOR & WINDOW DETAILS 1920 BUILDING - EXTERIOR

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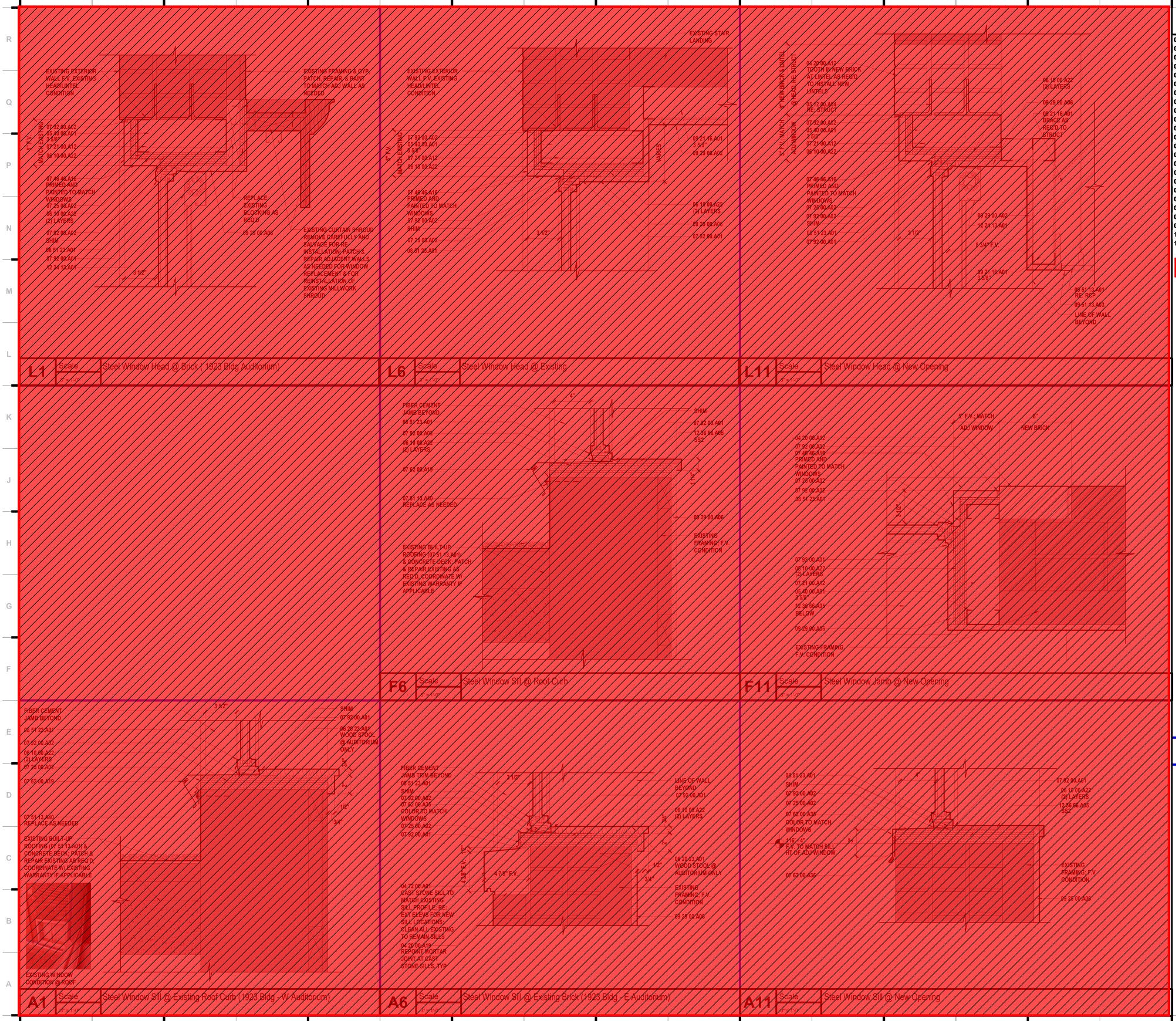

SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
04 20 00.A19	MORTAR
04 72 00.A01	CAST STONE
05 12 00.A04	ANGLE
05 40 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
06 20 23.A01	TRIM - TRANSPARENT
07 21 00.A12	SPRAY-IN FOAM INSULATION
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 46 46.A16	FIBER-CEMENT TRIM
07 51 13.A01	BUILT-UP ASPHALT ROOFING SYSTEM
07 51 13.A40	TERMINATION BAR
07 62 00.A19	COUNTER FLASHING RECEIVER
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 62 00.A36	CLEAT
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A06	MOLD AND MOISTURE RESISTANT GYPSUM BOARD
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 51 13.A03	EDGE MOLDINGS AND TRIM
12 24 13.A01	ROLLER SHADES (MANUAL)
12 36 66.A05	SOLID SURFACE SILL

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

1. PATCH AND REPAIR SURROUNDING GYP/PLASTER/FINISH WALL SURFACE AS NEEDED AT ALL WALL LOCATIONS FOR DEMO & REINSTALLATION OF NEW DOORS, WINDOWS, AND STOREFRONT FRAMING.
2. REMOVE AND REPLACE DETERIORATED OR DAMAGED HEAD/JAMB/SILL MATERIAL AS NEEDED WITH NEW BLOCKING. VERIFY W/ ARCHITECT.
3. ALL PERIMETER ALUMINUM SNAP TRIM TO BE REMOVED AT ALL NEW WINDOW REPLACEMENT LOCATIONS AT 1923 BUILDING.
4. EXISTING WALL CONDITIONS SHOWN TO THE BEST OF AVAILABLE KNOWLEDGE BY SITE OBSERVATIONS AND AVAILABLE AS-BUILT DRAWINGS. CONNECTIONS TO EXISTING HEAD/JAMB/SILL CONDITIONS MAY DIFFER FROM DOCUMENTS. VERIFY IN FIELD AND REPORT ALL DISCREPANCIES TO ARCHITECT BEFORE PROCEEDING WITH NEW WORK.

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mha Food Facility Consultants, LLC
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785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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DATE: 12.07.2023

A506

DOOR & WINDOW DETAILS 1920 BUILDING - EXTERIOR

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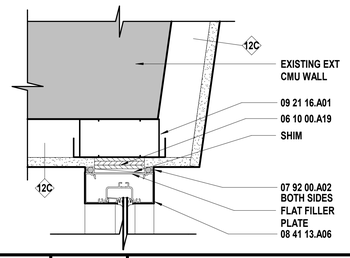
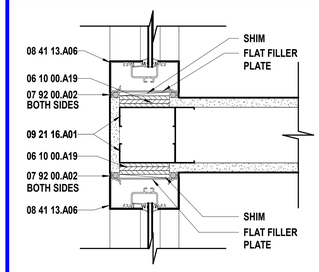
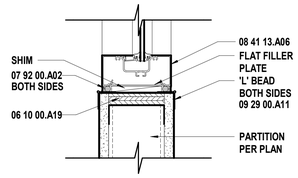


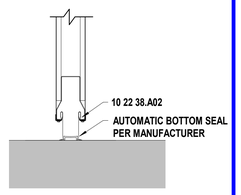
P1 | Scale 3" = 1'-0" | Storefront Jamb Along Furring/Existing CMU



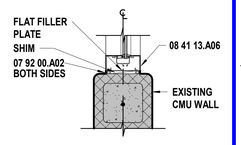
P4 | Scale 3" = 1'-0" | Storefront Jamb Along Stud Wall - Both Sides



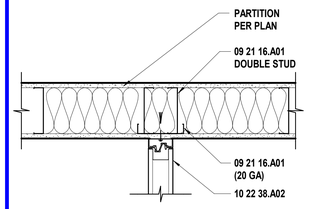
P7 | Scale 3" = 1'-0" | Storefront Sill @ Stud Wall



P10 | Scale 1 1/2" = 1'-0" | Sill @ Operable Wall Partition



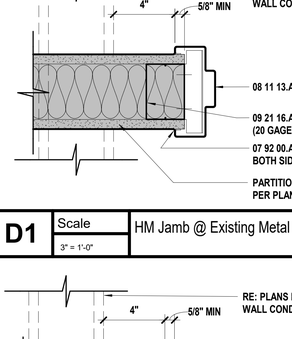
P12 | Scale 1 1/2" = 1'-0" | Storefront Jamb @ CMU Wall



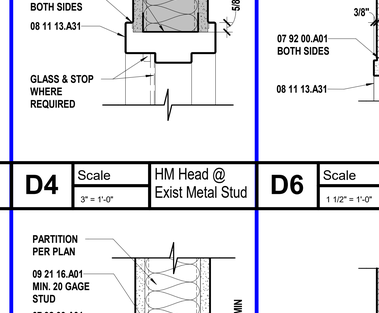
P14 | Scale 1 1/2" = 1'-0" | Jamb @ Operable Wall Partition

SHEET KEYNOTE LEGEND

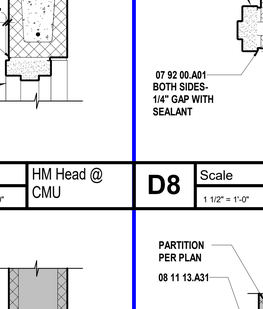
04 20 00.A01	CONCRETE MASONRY UNITS
04 20 00.A10	MASONRY LINTELS (SITE CAST)
05 12 00.A06	HSS SHAPE
05 50 00.A01	MISC STEEL FRAMING/SUPPORTS
06 10 00.A13	WOOD BLOCKING/NAILERS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 20 23.A03	MOLDINGS - TRANSPARENT
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
07 92 00.A04	ACOUSTICAL SEALANT
08 11 13.A31	HOLLOW METAL FRAME
08 14 33.A02	INTERIOR WOOD DOOR FRAMES
08 33 26.A01	OVERHEAD COILING GRILLES
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A16	ALUMINUM SLIDING DOOR
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A11	GYPSUM BOARD TRIM
09 29 00.A14	SOUND ATTENUATION BLANKETS
10 22 38.A02	OPERABLE PANEL PARTITION (PAIRED PANEL)



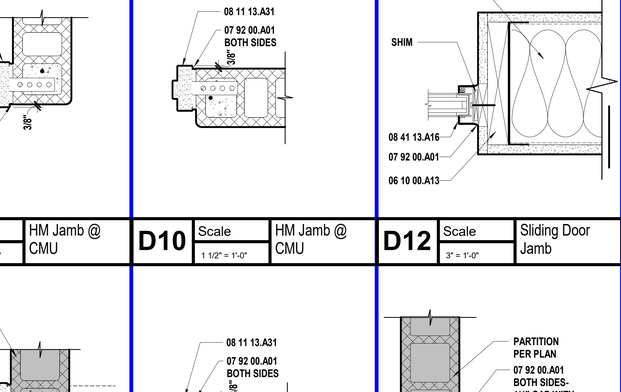
K1 | Scale 3" = 1'-0" | Storefront Jamb Along Stud Wall (Interior)



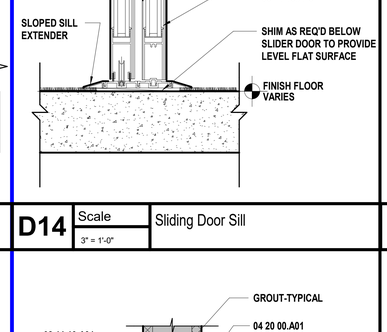
K4 | Scale 3" = 1'-0" | Storefront Head @ CMU Wall (Interior)



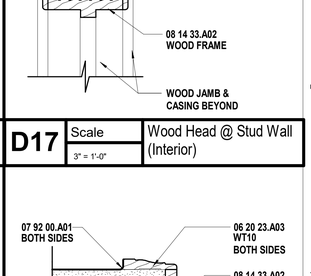
K7 | Scale 3" = 1'-0" | Storefront Jamb Along CMU Wall (Interior)



K9 | Scale 1 1/2" = 1'-0" | Ceiling Detail @ Operable Wall Partition



K14 | Scale 1 1/2" = 1'-0" | OH Grille Head @ Gyp Header



K17 | Scale 3" = 1'-0" | Wood Head @ Existing Stud Wall (Interior)

G1 | Scale 1 1/2" = 1'-0" | HM Jamb @ Along Stud Wall

G3 | Scale 3" = 1'-0" | Storefront Head @ Stud Wall (Int)

G5 | Scale 3" = 1'-0" | Storefront Jamb @ Stud Wall (Interior)

G8 | Scale 3" = 1'-0" | Storefront Jamb @ Exist Plaster

G10 | Scale 1 1/2" = 1'-0" | Storefront @ Existing CMU

G12 | Scale 3" = 1'-0" | Sliding Door Head

G15 | Scale 1 1/2" = 1'-0" | Grille Jamb @ Existing CMU

G17 | Scale 3" = 1'-0" | Wood Jamb @ Existing Metal Stud

D1 | Scale 3" = 1'-0" | HM Jamb @ Existing Metal Stud

D4 | Scale 3" = 1'-0" | HM Head @ Exist Metal Stud

D6 | Scale 1 1/2" = 1'-0" | HM Head @ CMU

D8 | Scale 1 1/2" = 1'-0" | HM Jamb @ CMU

D10 | Scale 1 1/2" = 1'-0" | HM Jamb @ CMU

D12 | Scale 3" = 1'-0" | Sliding Door Jamb

D14 | Scale 3" = 1'-0" | Sliding Door Sill

D17 | Scale 3" = 1'-0" | Wood Head @ Stud Wall (Interior)

A1 | Scale 3" = 1'-0" | HM Jamb @ Metal Stud

A4 | Scale 3" = 1'-0" | HM Head @ Metal Stud

A6 | Scale 1 1/2" = 1'-0" | HM Head @ Existing CMU

A8 | Scale 1 1/2" = 1'-0" | HM Jamb @ Existing CMU

A10 | Scale 1 1/2" = 1'-0" | HM Jamb @ Existing CMU

A12 | Scale 1 1/2" = 1'-0" | HM Jamb @ Ex CMU Along Wall

A14 | Scale 1 1/2" = 1'-0" | HM Jamb @ Existing CMU Corner

A17 | Scale 3" = 1'-0" | Wood Jamb @ Metal Stud

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REVISIONS:

#	Description	Date

STATE OF MISSOURI
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A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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DATE: 12.07.2023

A521

DOOR & WINDOW DETAILS - INTERIOR

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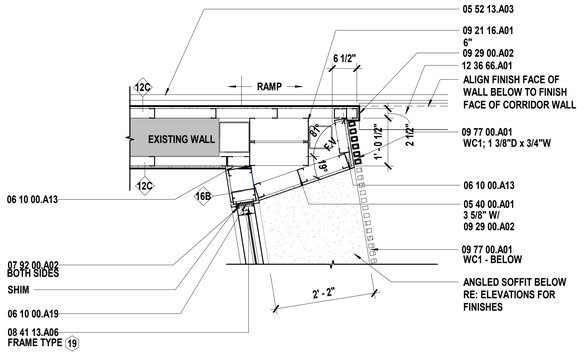
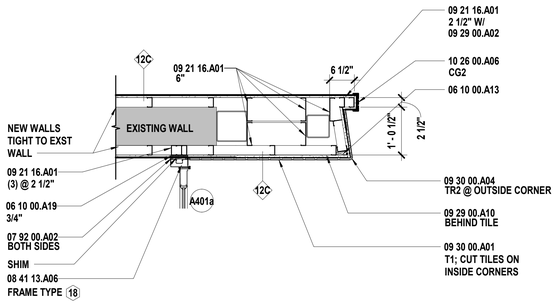
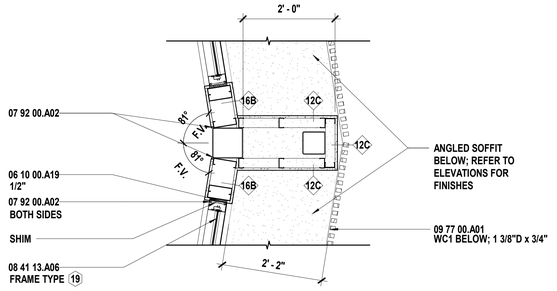


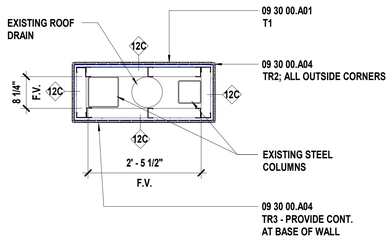
J1 | Scale 3/4" = 1'-0" | Plan Detail - A501 Tinker Flex Commons - N



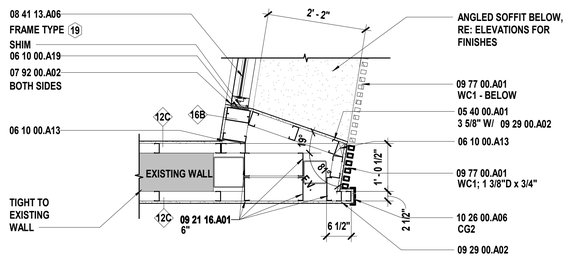
J6 | Scale 3/4" = 1'-0" | Plan Detail - A401 Flex Commons - N



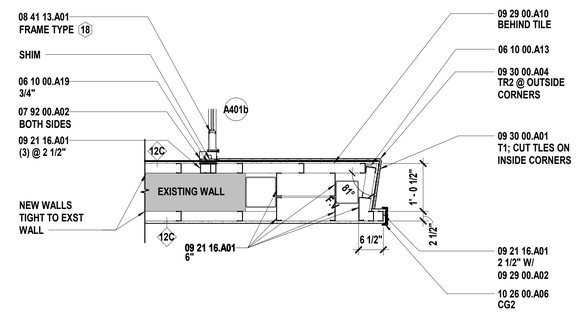
E1 | Scale 3/4" = 1'-0" | Plan Detail - A501 Tinker Flex Commons - Column



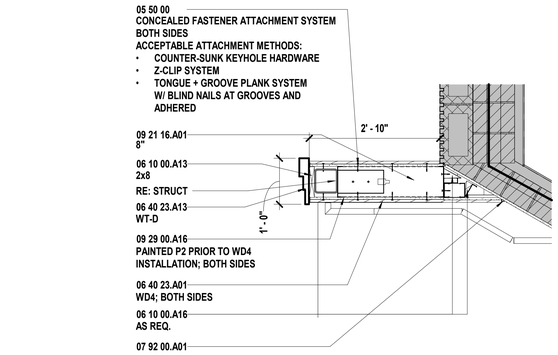
E6 | Scale 3/4" = 1'-0" | Plan Detail - A401 Flex Commons - Column



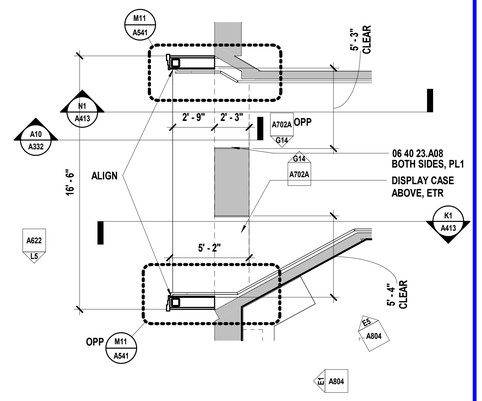
A1 | Scale 3/4" = 1'-0" | Plan Detail - A510 Tinker Flex Commons - S



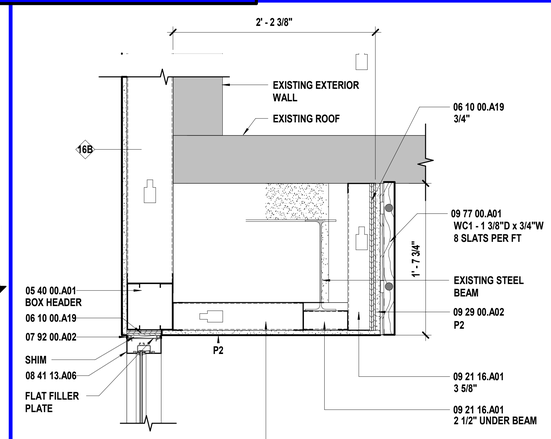
A6 | Scale 3/4" = 1'-0" | Plan Detail - A401 Flex Commons - S



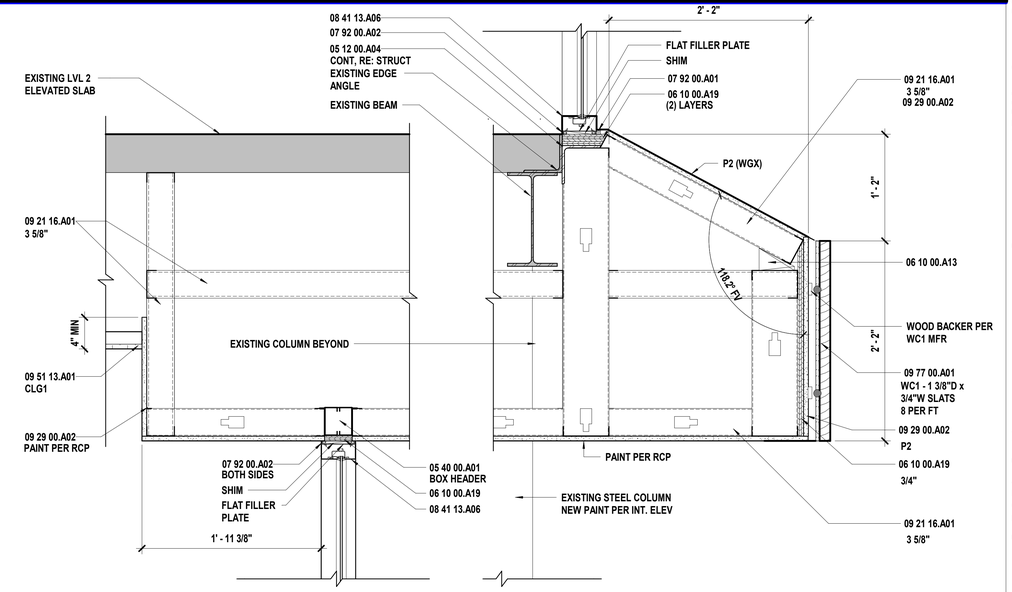
M11 | Scale 3/4" = 1'-0" | Plan Detail @ 1920's Portal Entry



G11 | Scale 1/4" = 1'-0" | Enlarged Finish Floor Plan - A413 Commons - Arched Entry



G15 | Scale 1 1/2" = 1'-0" | Ceiling Detail - A501 Flex - Soffit @ Commons



A11 | Scale 1 1/2" = 1'-0" | Ceiling Detail - A401 Flex - Angled Soffit @ Commons

SHEET KEYNOTE LEGEND

05 12 00.A04	ANGLE
05 40 00.A01	COLD-FORMED METAL FRAMING
05 50 00	METAL FABRICATIONS
05 52 13.A03	STAINLESS STEEL PIPE AND TUBE RAILINGS
06 10 00.A13	WOOD BLOCKING/NAILERS
06 10 00.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 40 23.A01	ORNAMENTAL TRIM - TRANSPARENT
06 40 23.A08	PLASTIC LAMINATE-CLAD PANELS
06 40 23.A13	ORNAMENTAL WOODWORK
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 41 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A10	CEMENTITIOUS BACKER UNITS
09 29 00.A16	FLEXIBLE GYPSUM BOARD
09 30 00.A01	TILE
09 30 00.A04	METAL EDGE STRIPS
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 77 00.A01	ARCHITECTURAL WALL CLADDING SYSTEM
10 26 00.A06	END-OF-WALL GUARDS
12 36 66.A01	SOLID SURFACE COUNTERTOP

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KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023

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CHECKED BY: JB
DATE: 12.07.2023

A541

ARCHITECTURAL PLAN DETAILS - INTERIOR - COMMONS

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SHEET KEYNOTE LEGEND

06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 40 23.A07	VENEERED PANELS
06 40 23.A24	METAL EDGE TRIM
09 29 00.A02	GYPSUM BOARD - TYPE X
10 14 00.A31	CUSTOM
10 22 38.A02	OPERABLE PANEL PARTITION (PAIRED PANEL)
10 26 00.A03	CORNER GUARDS

= Phase 2 Scope of Work
(Not included in this Bid Package)

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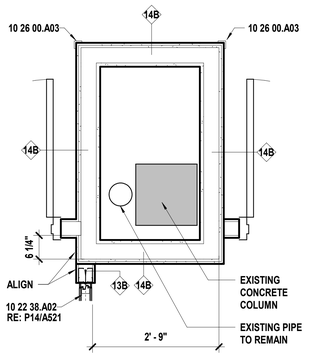
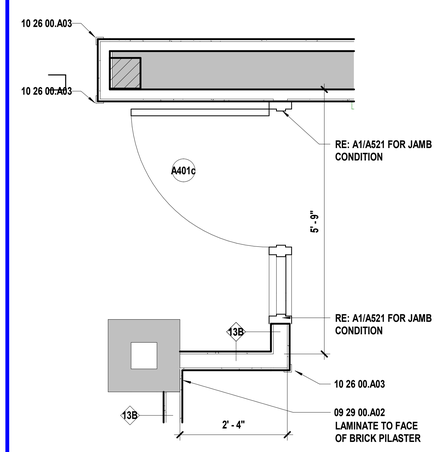
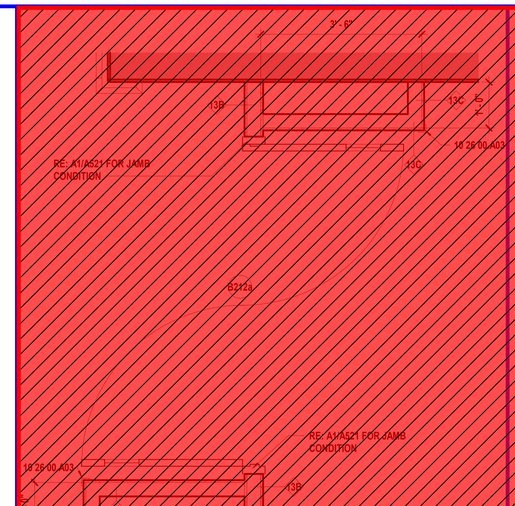


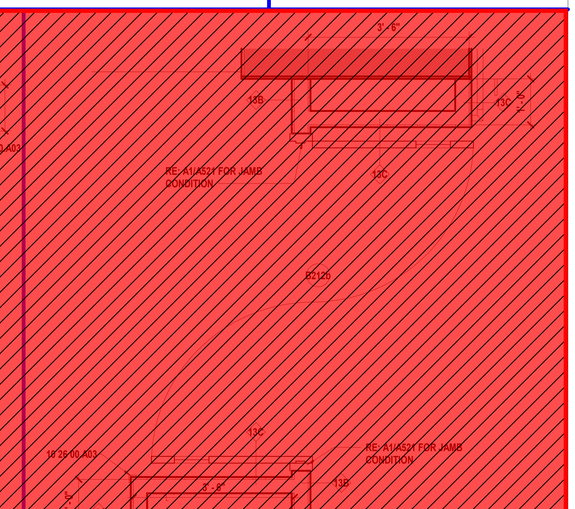
G4 Scale 3/4" = 1'-0" — Plan Detail - Plumbing Shaft



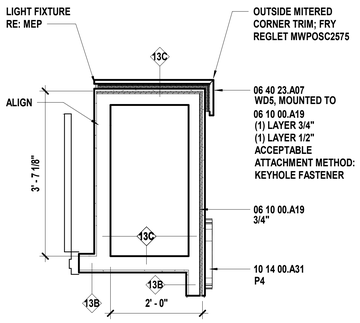
G7 Scale 3/4" = 1'-0" — Plan Detail - A401/A501 Flex Entry - N



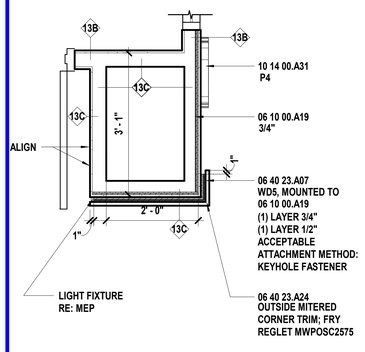
G11 Scale 3/4" = 1'-0" — Interior Plan Detail - Corridor B212A / B312A Door Pocket



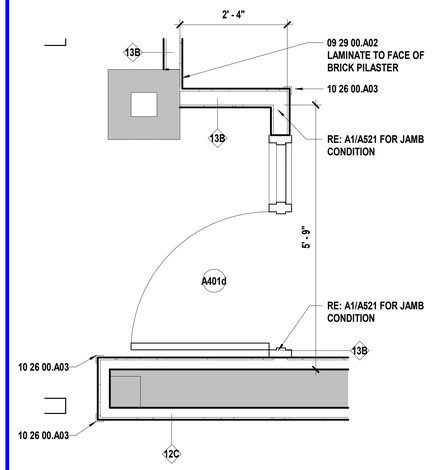
G15 Scale 3/4" = 1'-0" — Interior Plan Detail - Corridor B212C / B312C Door Pocket



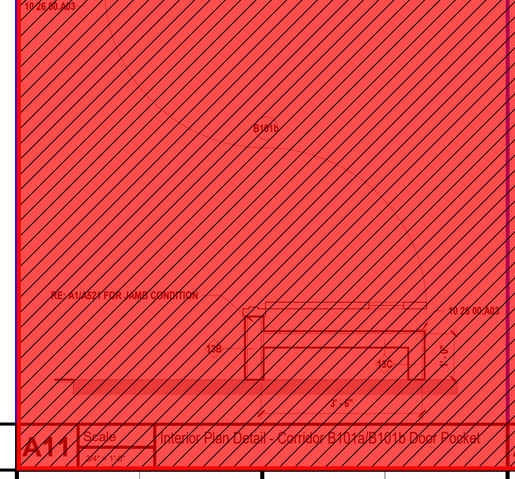
A1 Scale 3/4" = 1'-0" — Plan Detail - A409/A509 SPED - Column Fur Out - N



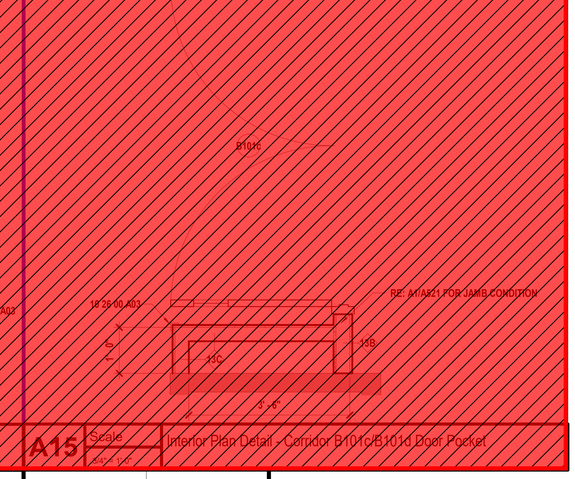
A4 Scale 3/4" = 1'-0" — Plan Detail - A410/A510 SPED - Column Fur Out - S



A7 Scale 3/4" = 1'-0" — Plan Detail - A401/A501 Flex Entry - S



A11 Scale 3/4" = 1'-0" — Interior Plan Detail - Corridor B101a/B101b Door Pocket



A15 Scale 3/4" = 1'-0" — Interior Plan Detail - Corridor B101c/B101d Door Pocket

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

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REVISIONS:

#	Description	Date

KEVIN E. NELSON
A-2009015618
ARCHITECT
STATE OF MISSOURI
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: MW / ARH / HL
CHECKED BY: JB
DATE: 12.07.2023

A542

ARCHITECTURAL PLAN DETAILS - INTERIOR

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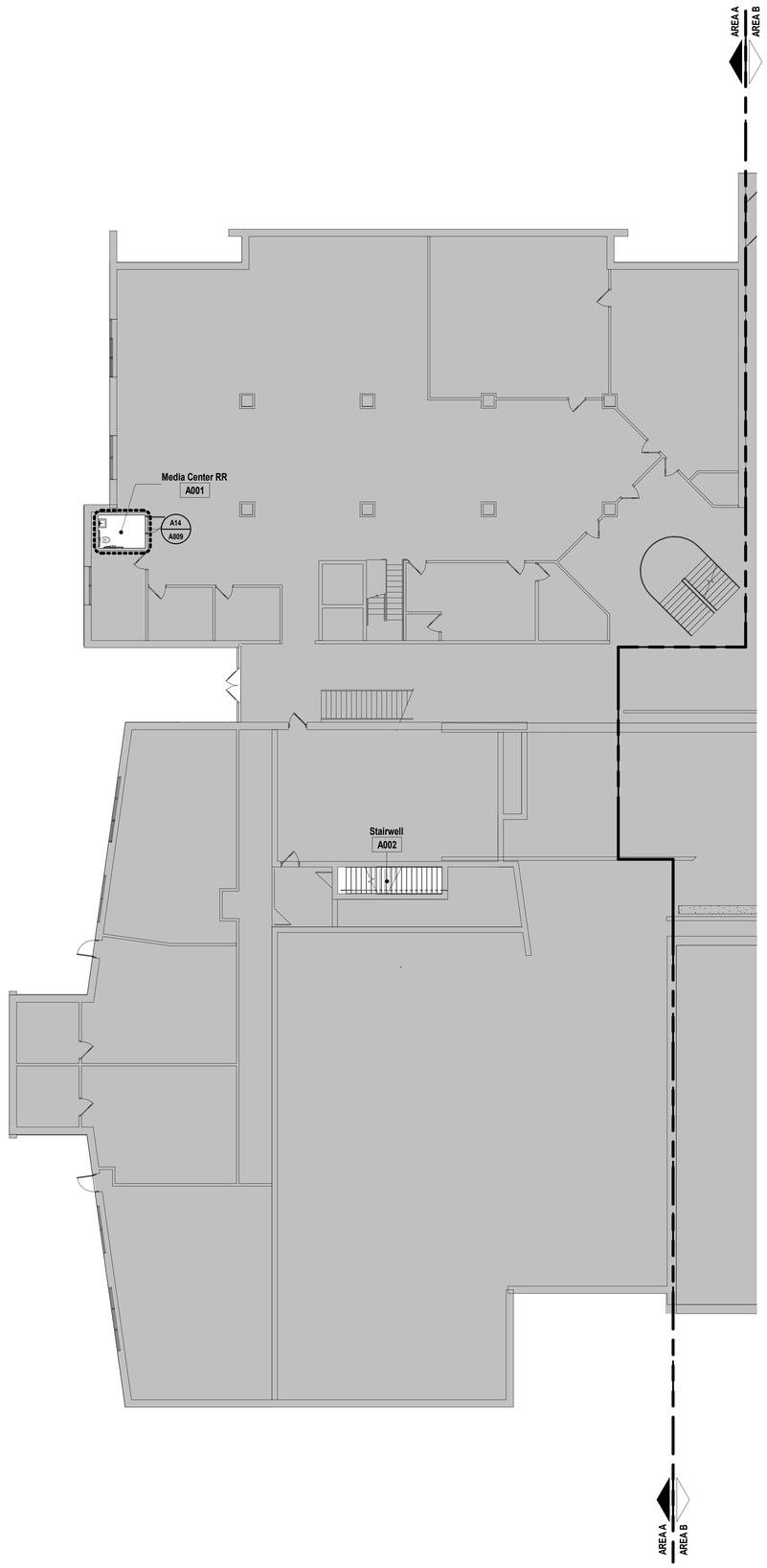

A1	Scale 3/32" = 1'-0"	Finish Floor Plan - Level 0 - Area A

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

SHEET NOTES

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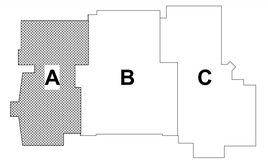
KEY PLAN



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REVISIONS:

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ARCHITECT

DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A600A

FINISH FLOOR PLAN - LEVEL 0 - AREA A

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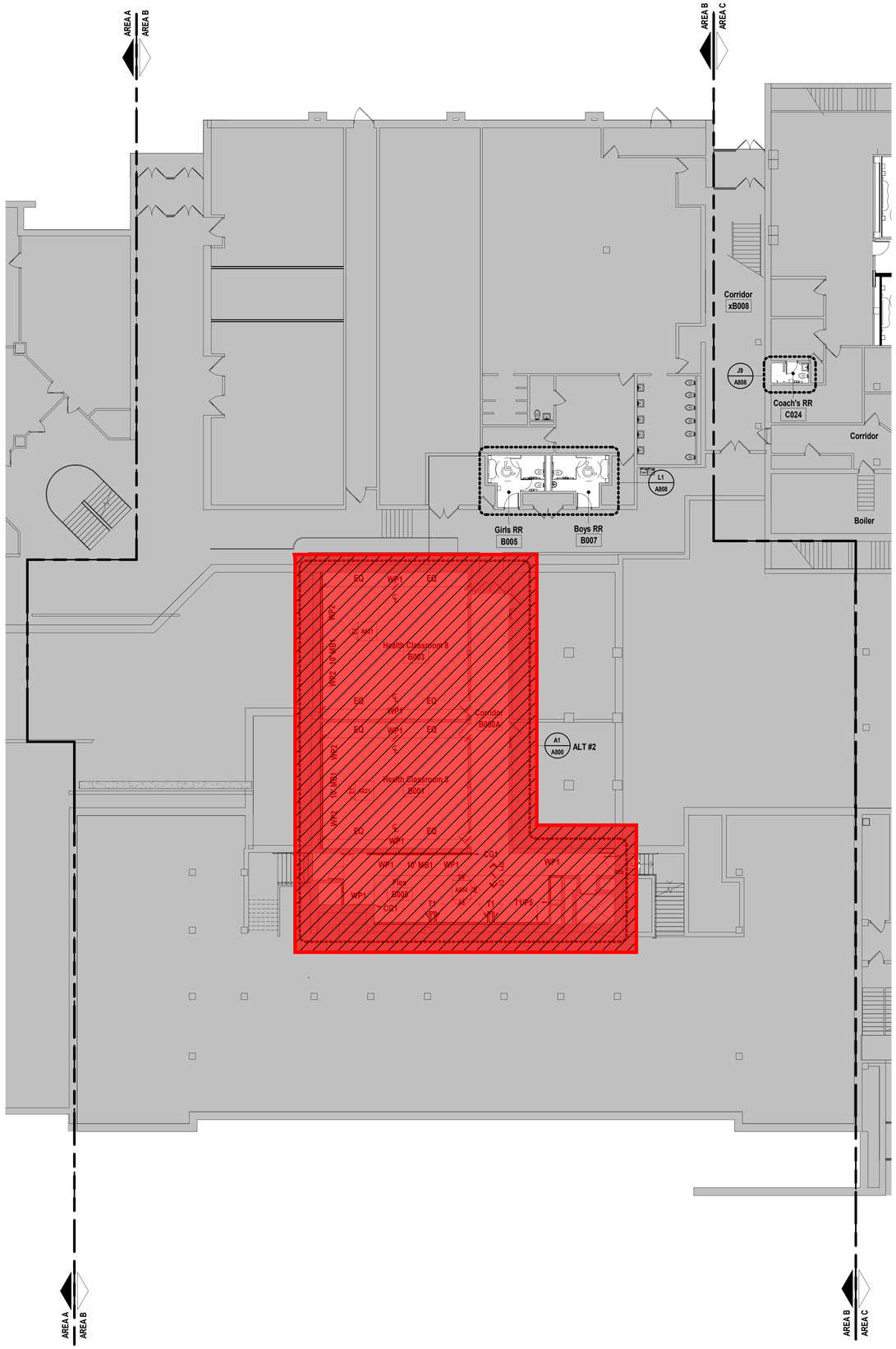

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
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	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

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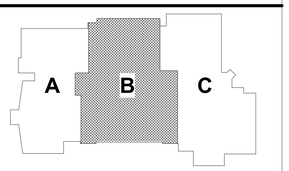
KEY PLAN



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REVISIONS:

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ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A600B

A1 | Scale 3/32" = 1'-0" | Finish Floor Plan - Level 0 - Area B

PROJECT NORTH TRUE NORTH

FINISH FLOOR PLAN - LEVEL 0 - AREA B

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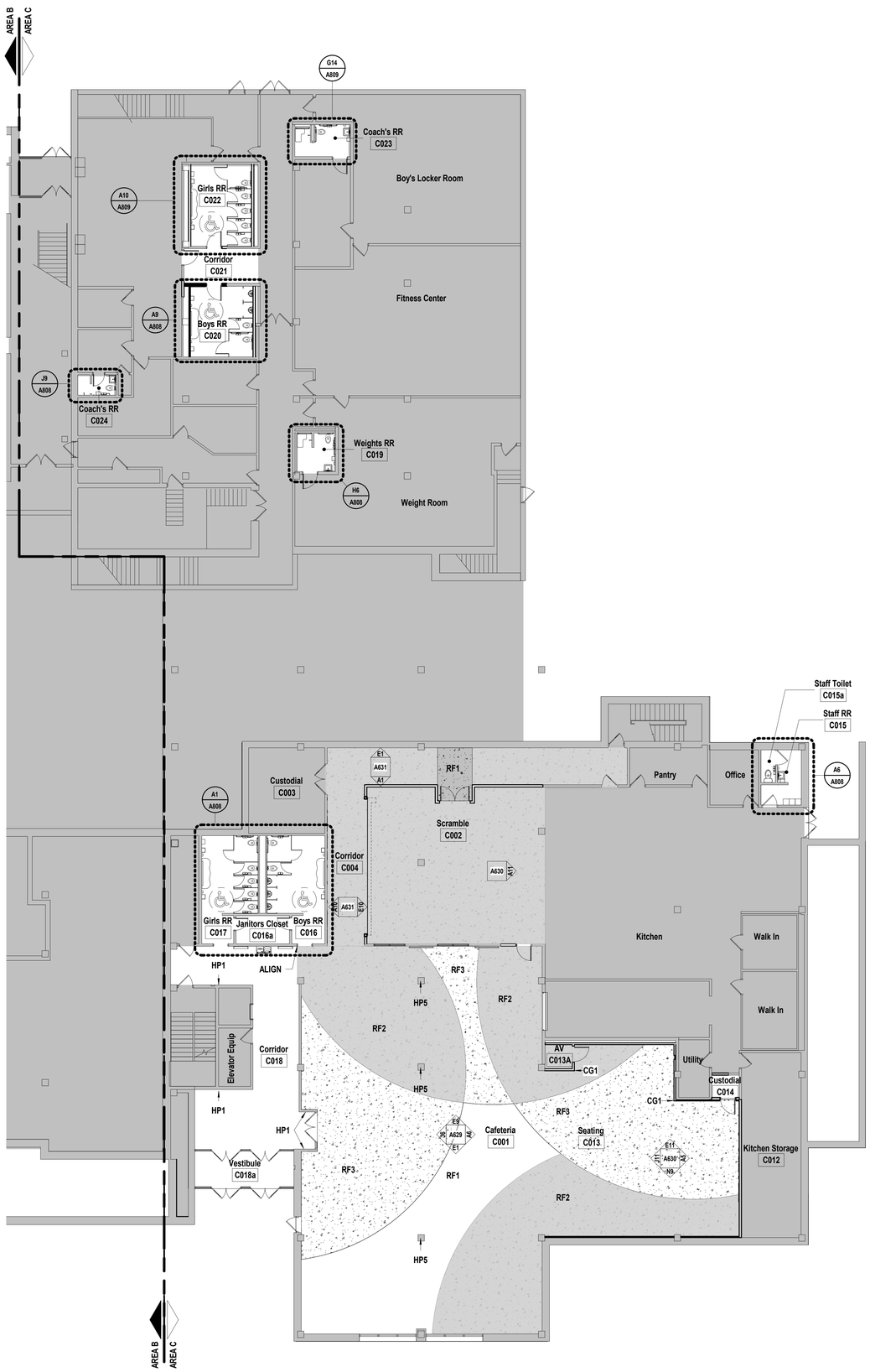

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	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
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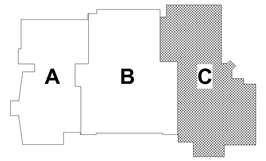
KEY PLAN



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100% CONSTRUCTION DOCUMENTS

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REVISIONS:

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ARCHITECT
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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A600C

A1 | Scale 3/32" = 1'-0" | Finish Floor Plan - Level 0 - Area C

PROJECT NORTH TRUE NORTH

FINISH FLOOR PLAN - LEVEL 0 - AREA C

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SHEET KEYNOTE LEGEND

09 65 13 RESILIENT BASE AND ACCESSORIES

= Phase 2 Scope of Work
(Not included in this Bid Package)

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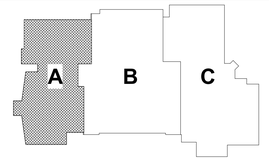

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A601A

A1 Scale 3/32" = 1'-0"

Finish Floor Plan - Level 1 - Area A

PROJECT NORTH TRUE NORTH

FINISH FLOOR PLAN - LEVEL 1 - AREA A

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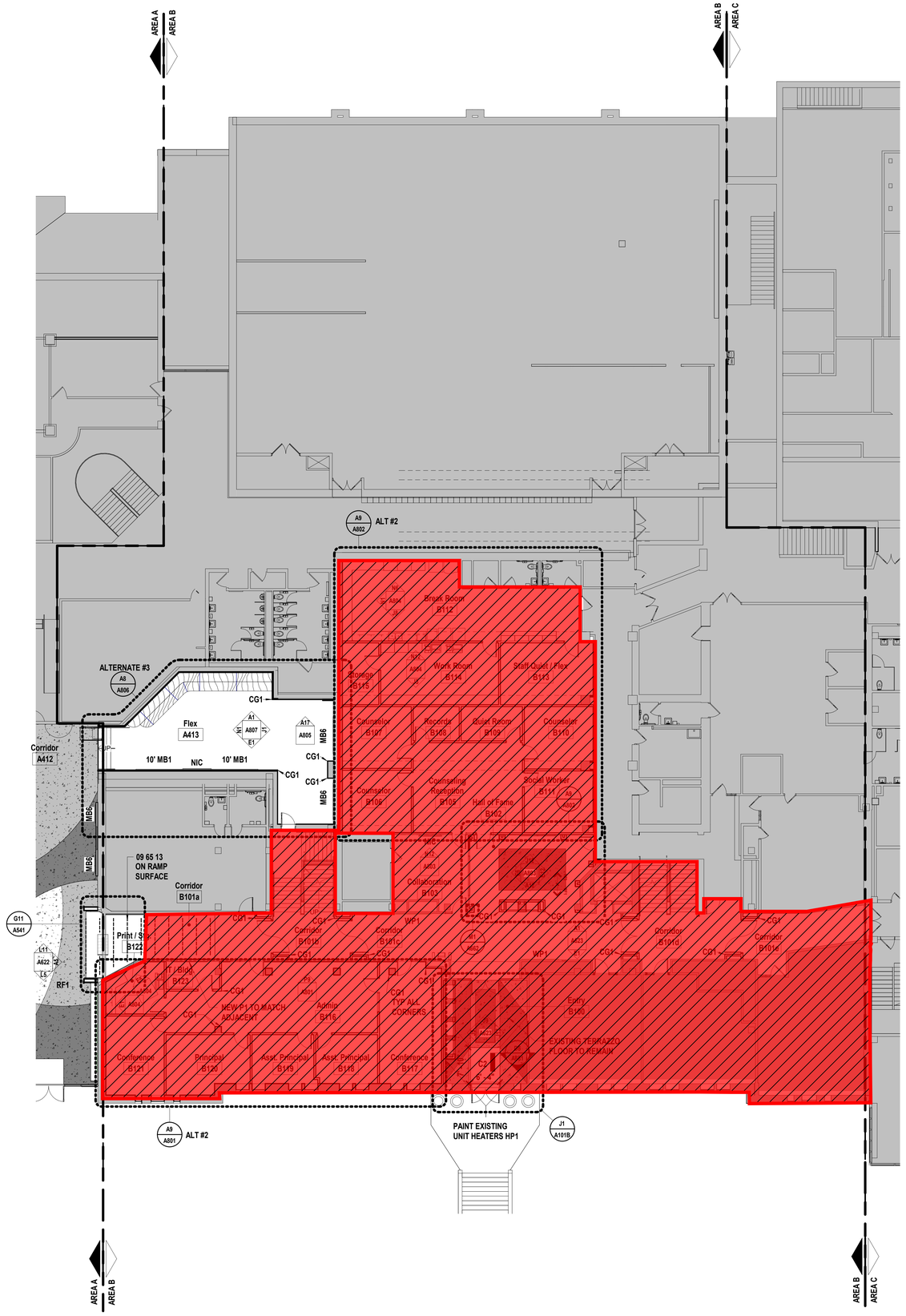

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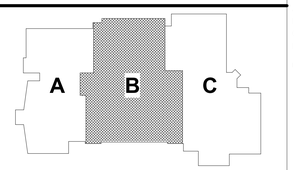
KEY PLAN



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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: MW
CHECKED BY: JB
DATE: 12.07.2023

A601B

A1 | Scale 3/32" = 1'-0" | Finish Floor Plan - Level 1 - Area B

PROJECT NORTH TRUE NORTH

FINISH FLOOR PLAN - LEVEL 1 - AREA B

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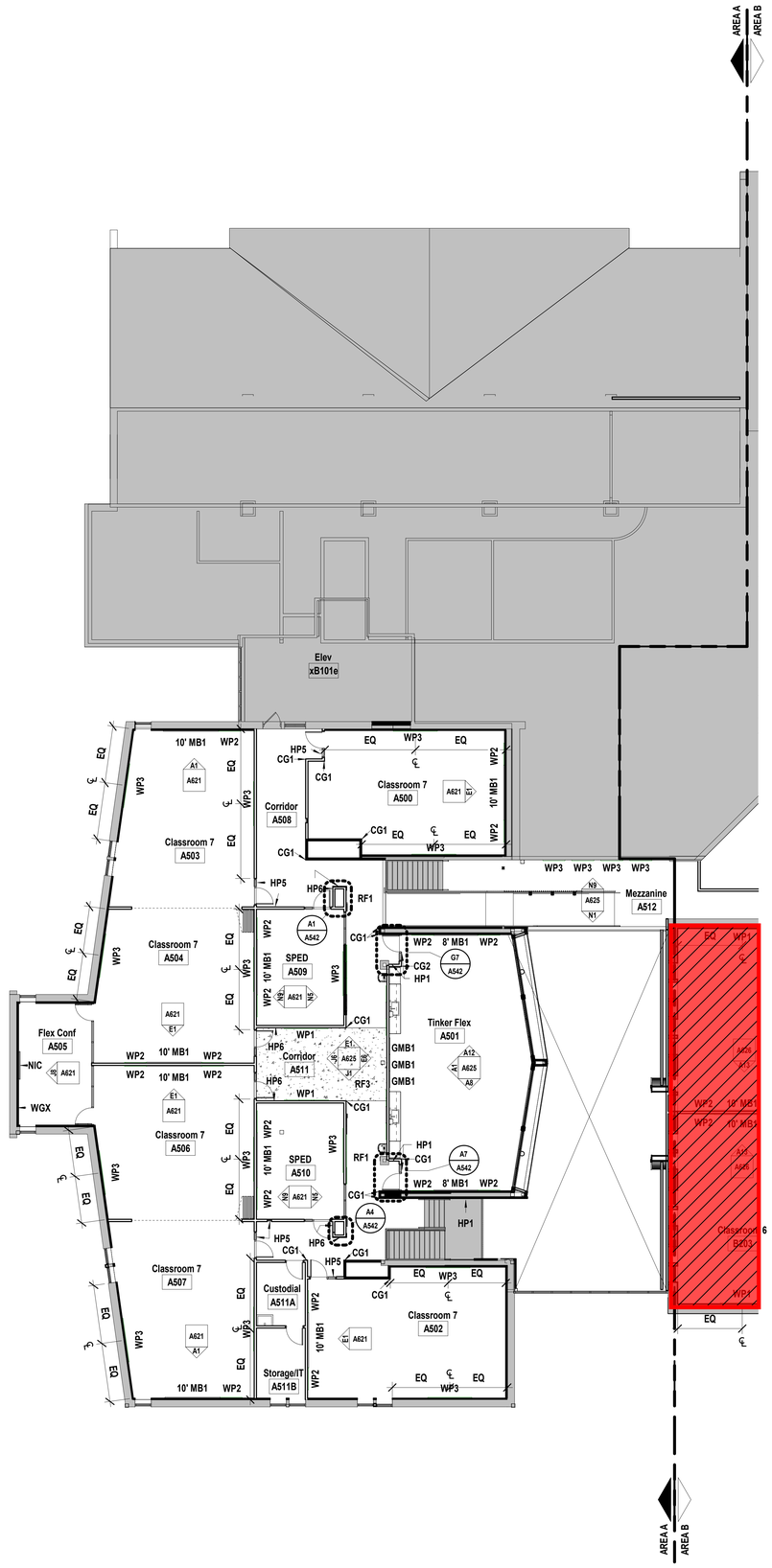

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

SHEET NOTES

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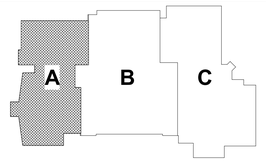
KEY PLAN



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REVISIONS:

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A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A602A

A1 Scale 3/32" = 1'-0"

Finish Floor Plan - Level 2 - Area A

PROJECT NORTH TRUE NORTH

FINISH FLOOR PLAN - LEVEL 2 - AREA A

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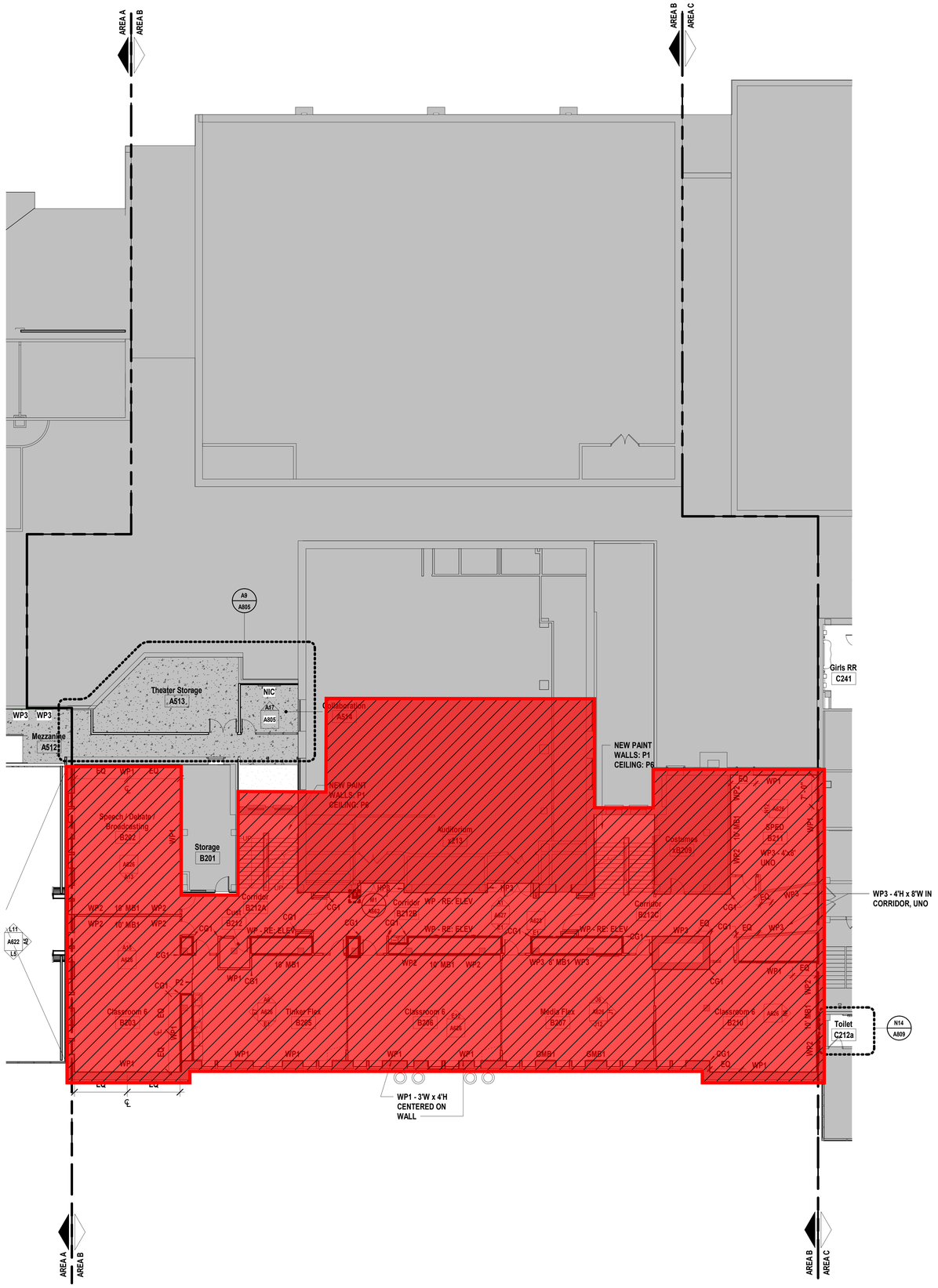

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

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	GRAIN DIRECTION
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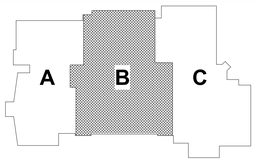

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REVISIONS:

#	Description	Date

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KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A602B

A1 | Scale 3/32" = 1'-0" | Finish Floor Plan - Level 2 - Area B

PROJECT NORTH TRUE NORTH

FINISH FLOOR PLAN - LEVEL 2 - AREA B

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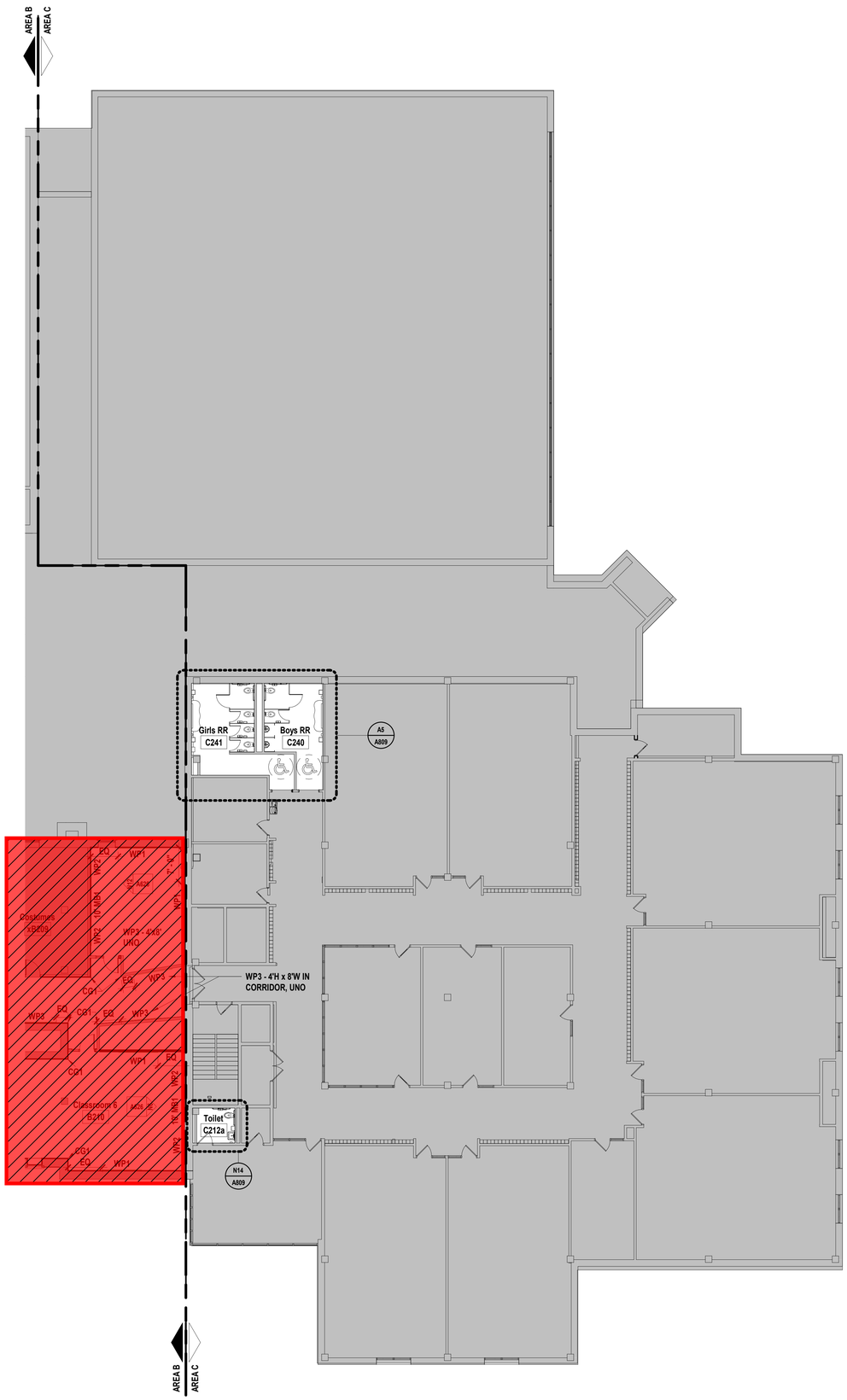

A1	Scale 3/32" = 1'-0"	Finish Floor Plan - Level 2 - Area C

PROJECT NORTH TRUE NORTH

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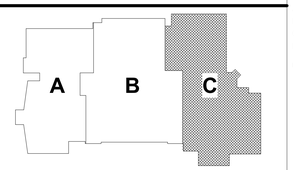

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100% CONSTRUCTION DOCUMENTS

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REVISIONS:

#	Description	Date

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A-2019015618
ARCHITECT

DECEMBER 7, 2023

Kevin E. Nelson
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A602C

FINISH FLOOR PLAN - LEVEL 2 - AREA C

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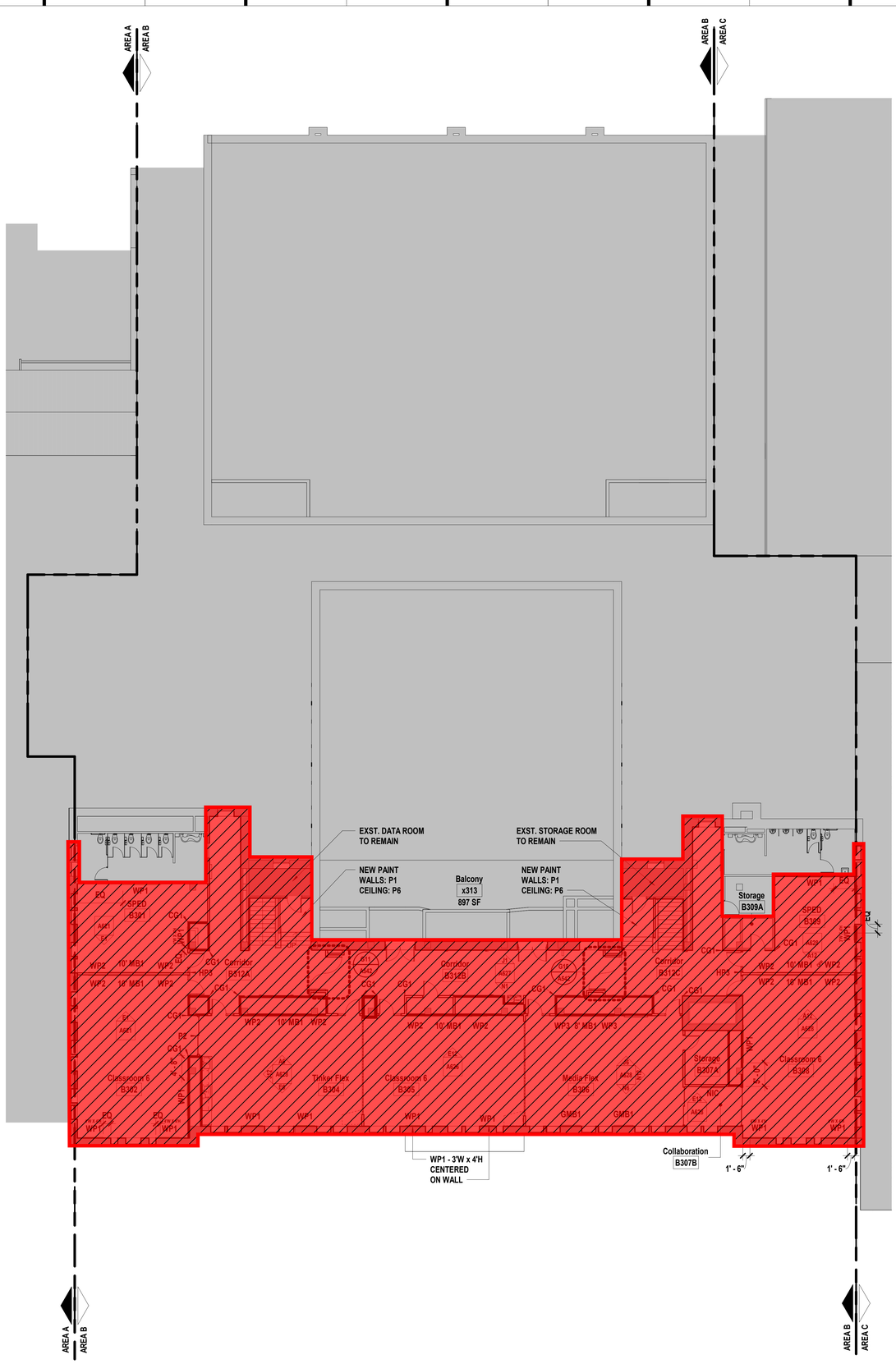

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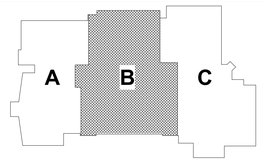

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A603B

A1 | Scale 3/32" = 1'-0" | Finish Floor Plan - Level 3 - Area B

PROJECT NORTH TRUE NORTH

FINISH FLOOR PLAN - LEVEL 3 - AREA B

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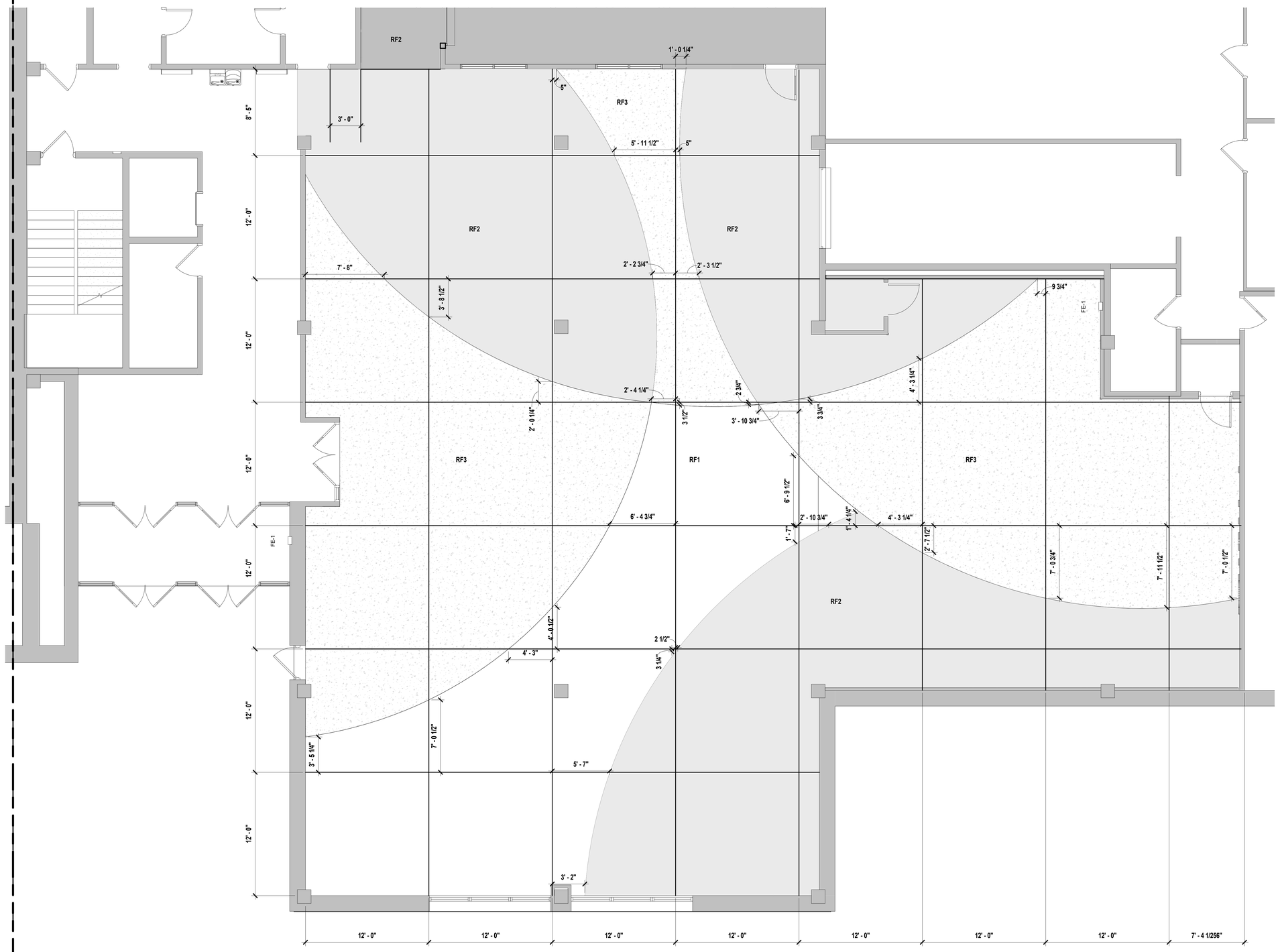

SHEET KEYNOTE LEGEND

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JOB NO: 23024
DRAWN BY: HL
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DATE: 12.07.2023

A611

A1 | Scale 1/4" = 1'-0" | Finish Floor Plan - Level 0 - Cafeteria Floor Pattern

FINISH FLOOR PLAN - LEVEL 0 - FLOOR PATTERN

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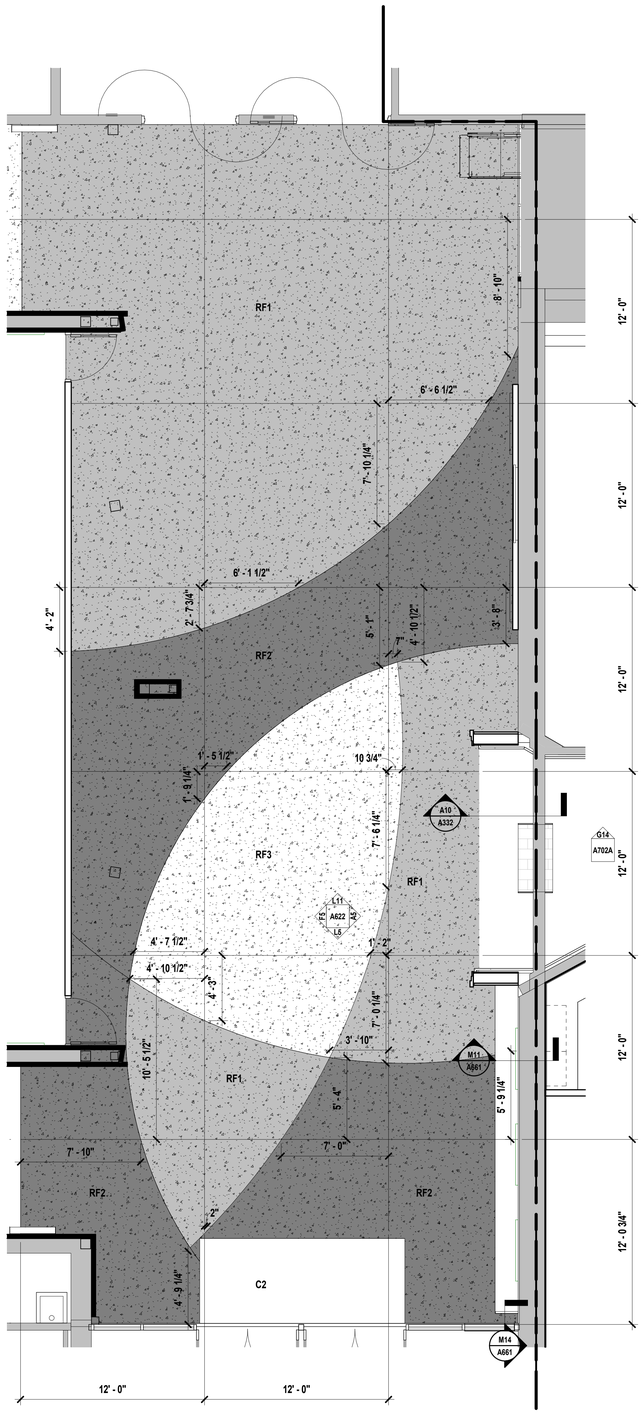

FE-1

FE-1

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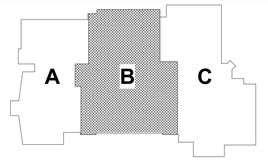
SHEET KEYNOTE LEGEND

KEY PLAN



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Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: MW
CHECKED BY: JB
DATE: 12.07.2023

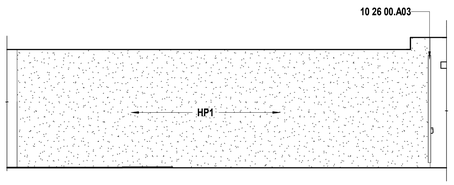
A612

A1 | Scale 1/4" = 1'-0" | Finish Floor Plan - Level 1 - Commons Floor Pattern

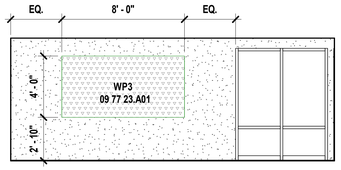
FINISH FLOOR PLAN - LEVEL 1 - FLOOR PATTERN

12/8/2023 12:24:24 PM

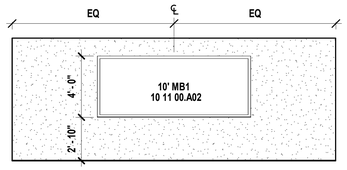
Please consider the environment before printing this.



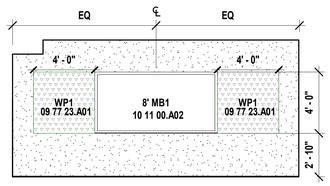
N1 Scale 1/4" = 1'-0" — Interior Elevation - A412 Corridor - S



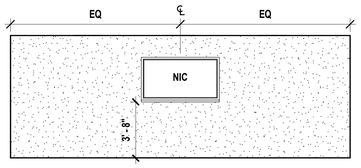
N5 Scale 1/4" = 1'-0" — Interior Elevation - SPED - Typical Storage Wall



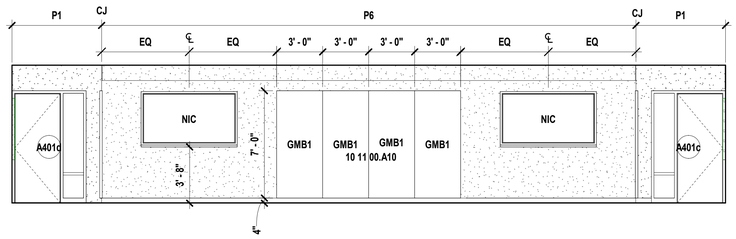
N9 Scale 1/4" = 1'-0" — Interior Elevation - SPED - Typical Teaching Wall



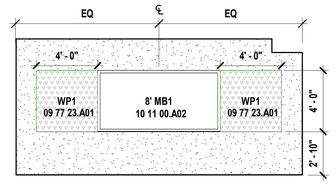
N13 Scale 1/4" = 1'-0" — Interior Elevation - A401 Flex - S



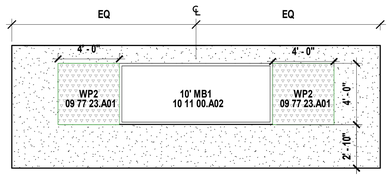
J8 Scale 1/4" = 1'-0" — Interior Elevation - A405 Flex Conf - W



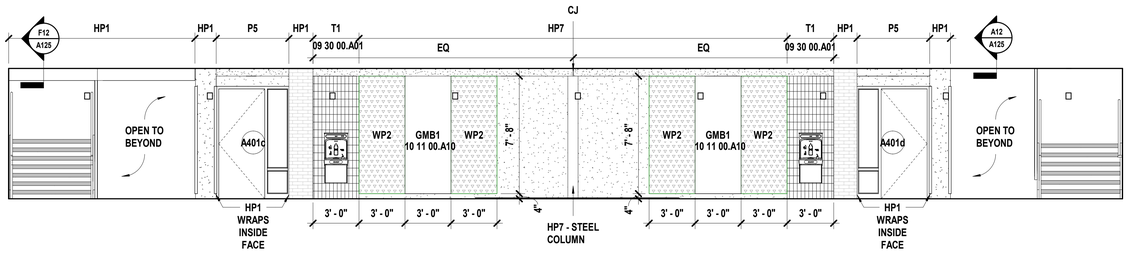
J1 Scale 1/4" = 1'-0" — Interior Elevation - A401 Flex - W



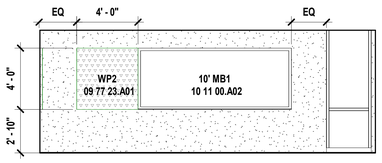
J12 Scale 1/4" = 1'-0" — Interior Elevation - A401 Flex - N



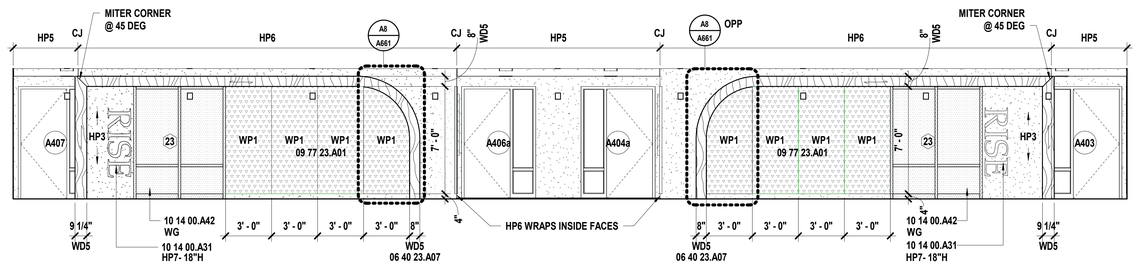
E1 Scale 1/4" = 1'-0" — Interior Elevation - Classroom Teaching Wall - Typical Dual Tackboards



E6 Scale 1/4" = 1'-0" — Interior Elevation - A411 Corridor - E



A1 Scale 1/4" = 1'-0" — Interior Elevation - Classroom Teaching Wall - Typical Single Tackboards



A6 Scale 1/4" = 1'-0" — Interior Elevation - A411 Corridor - W

SHEET KEYNOTE LEGEND

06 40 23.A07	VENEERED PANELS
09 30 00.A01	TILE
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
10 11 00.A10	MAGNETIC GLASS WRITE BOARDS
10 14 00.A31	CUSTOM
10 14 00.A42	FILM GRAPHICS (GLASS SUBSTRATE)
10 26 00.A03	CORNER GUARDS

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
3. COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS
4. REFER TO MEP SHEETS FOR LOCATION DIAGRAM OF SWITCHES, THERMOSTATS, FIRE ALARM STROBES TO BE MOUNTED ADJACENT TO ENTRY DOORS OR AT OUTSIDE CORNERS WITHIN ROOMS
5. COORDINATE WITH ELECTRICAL SHEETS FOR HEIGHT OF OUTLETS A.F.F. AND/OR ABOVE COUNTERTOPS
6. COORDINATE WITH MECHANICAL SHEETS FOR LOCATIONS OF WALL MOUNTED GRILLES AND REGISTERS
7. ALL EXPOSED SURFACES TO RECEIVE PLASTIC LAMINATE
8. ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
9. PROVIDE 4" BACKSPLASH, UNO; ALIGN BACKSPLASH SEAMS WITH COUNTERTOP SEAMS.
10. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
11. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
12. ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
13. ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
14. ALL TALL STORAGE AND WARDROBE CABINETS ARE TO BE 24" DEEP, UNO
15. ALL CASEWORK TO HAVE LOCKS TYPICAL, KEY ALIKE PER ROOM
16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW
17. ALL EXPOSED EDGES AT CASEWORK TO RECEIVE PVC EDGEBANDING, UNO.
18. ALL BUILT-UP SOLID SURFACE EDGES TO HAVE SEAMLESS CORNERS.
19. 7'H x 2" (U.N.O.) METAL CORNER GUARDS ON ALL OUTSIDE GYPSUM WALL CORNERS.

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JOB NO: 23024
DRAWN BY: HL / ARH
CHECKED BY: JB
DATE: 12.07.2023

A621

INTERIOR ELEVATIONS - LEVEL 1 - AREA A + TYP ELEVATIONS

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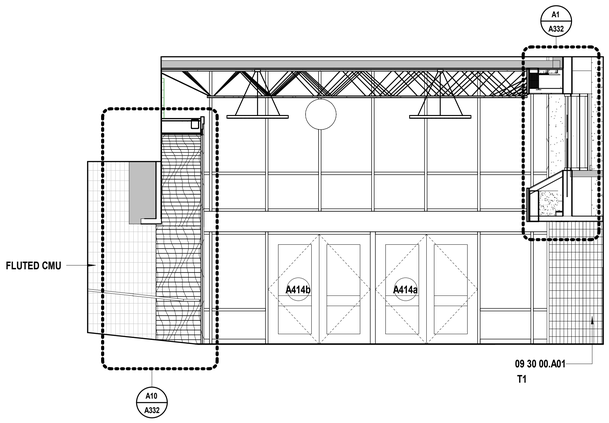
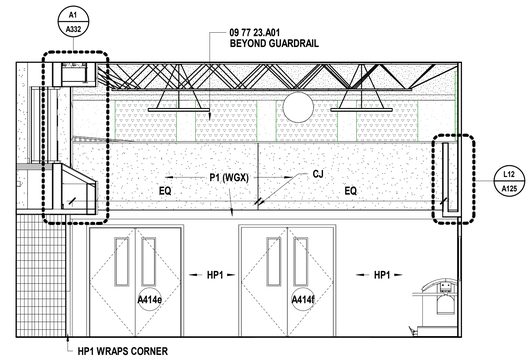
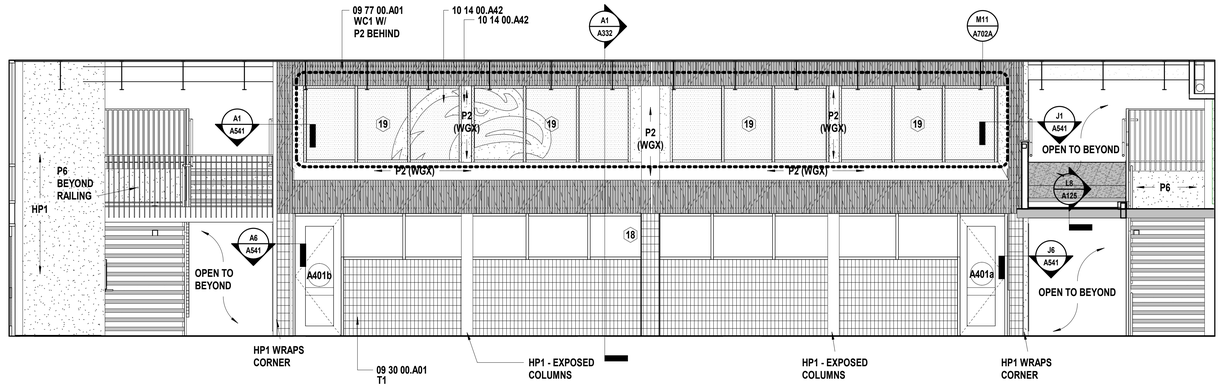


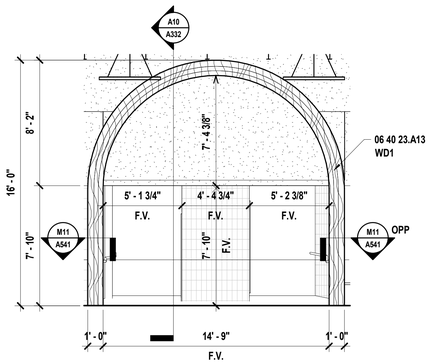
L5 Scale 1/4" = 1'-0" — Interior Elevation - A413 Commons - S



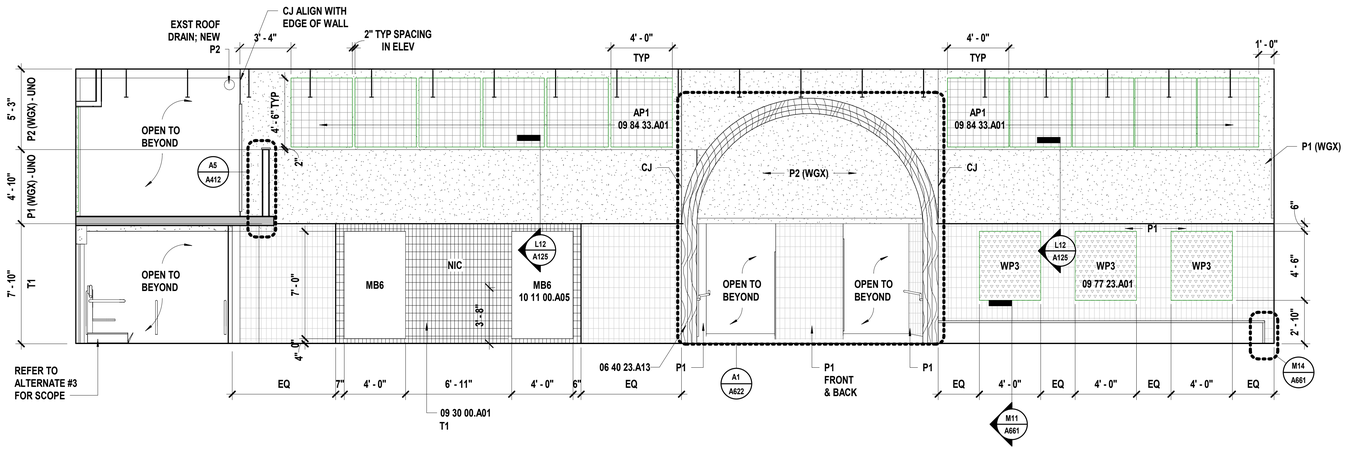
L11 Scale 1/4" = 1'-0" — Interior Elevation - A413 Commons - N



F5 Scale 1/4" = 1'-0" — Interior Elevation - A413 Commons - W



A1 Scale 1/4" = 1'-0" — Interior Elevation - A413 Commons - E - Arched Entry



A5 Scale 1/4" = 1'-0" — Interior Elevation - A413 Commons - E

SHEET KEYNOTE LEGEND

06 40 23.A13	ORNAMENTAL WOODWORK
09 30 00.A01	TILE
09 77 00.A01	ARCHITECTURAL WALL CLADDING SYSTEM
09 77 23.A01	FABRIC-WRAPPED PANELS
09 84 33.A01	SOUND-ABSORBING WALL PANELS
10 11 00.A05	VISUAL DISPLAY WALL PANELS
10 14 00.A42	FILM GRAPHICS (GLASS SUBSTRATE)

WALL FINISH LEGEND

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	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A622

INTERIOR ELEVATIONS - LEVEL 1 - COMMONS

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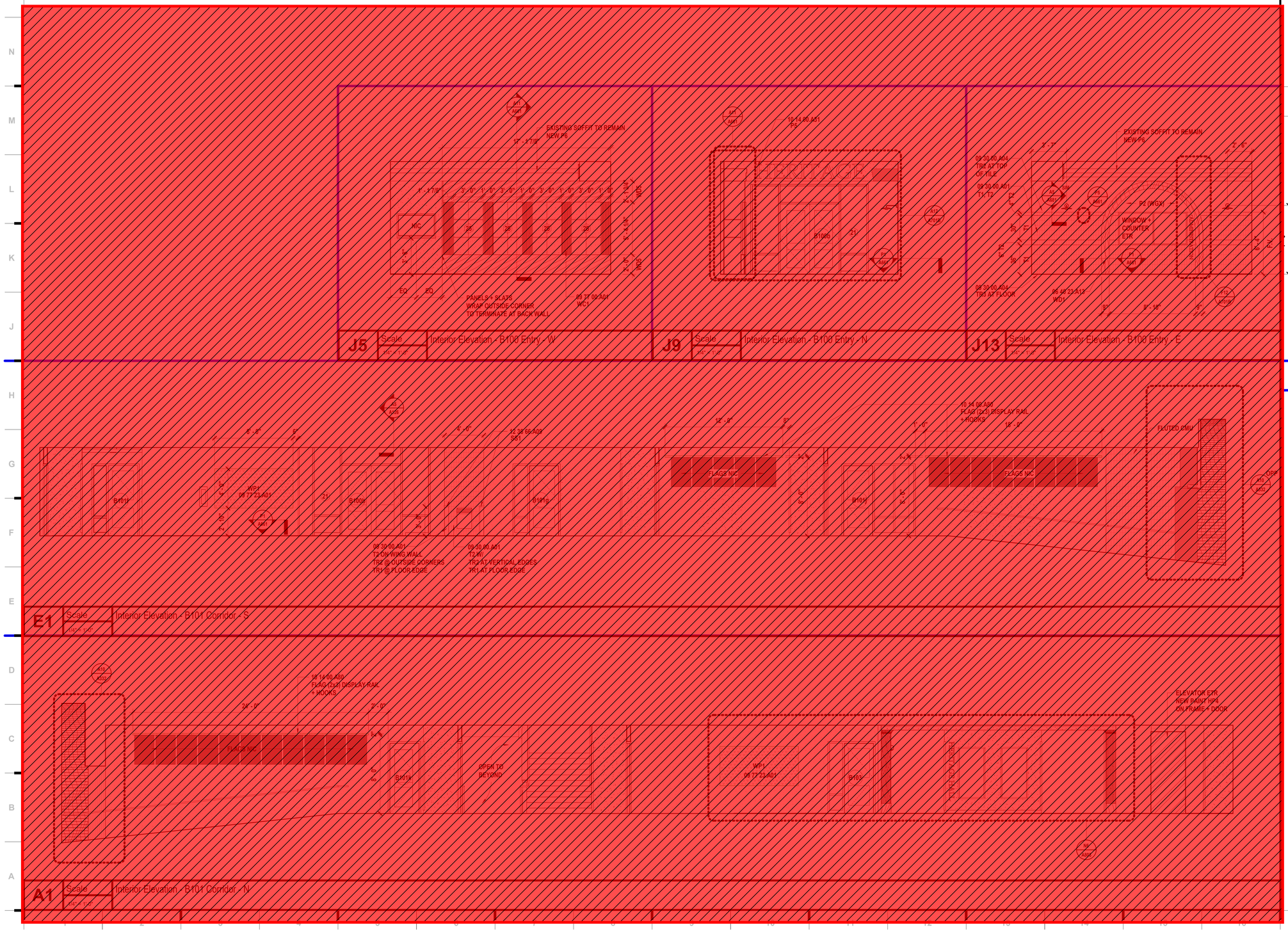

SHEET KEYNOTE LEGEND

06 40 23.A13	ORNAMENTAL WOODWORK
09 30 00.A01	TILE
09 30 00.A04	METAL EDGE STRIPS
09 77 00.A01	ARCHITECTURAL WALL CLADDING SYSTEM
09 77 23.A01	FABRIC-WRAPPED PANELS
10 14 00.A31	CUSTOM
10 14 00.A80	HANGING SYSTEM
12 36 66.A09	SOLID SURFACE WALL CAP

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A623

INTERIOR ELEVATIONS - LEVEL 1 - AREA B

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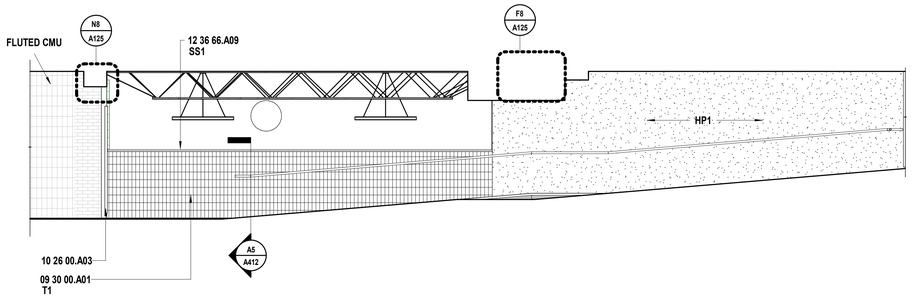
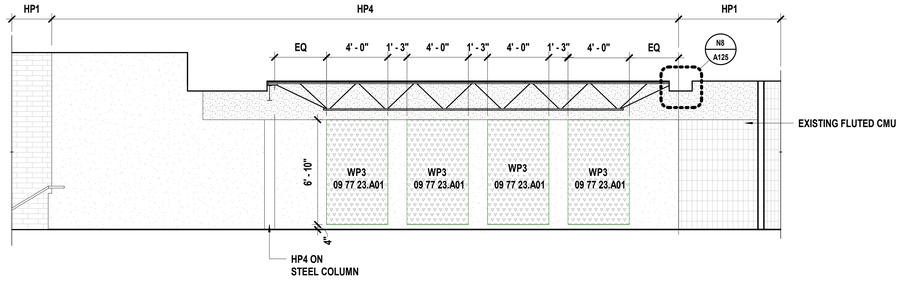
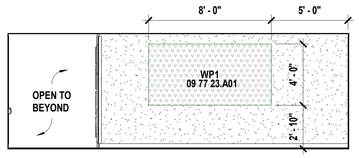


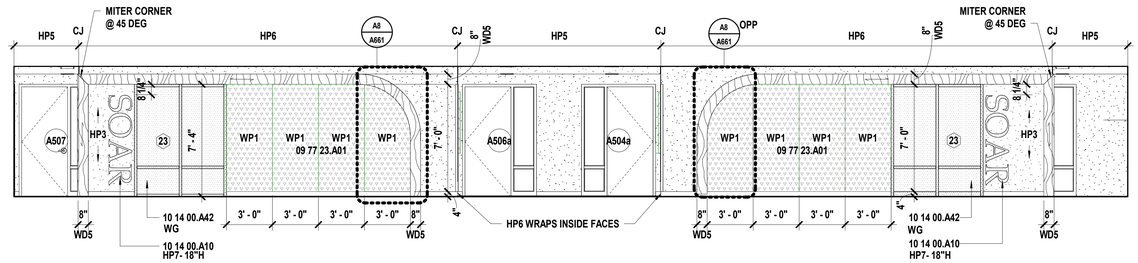
N1 Scale 1/4" = 1'-0" — Interior Elevation - A512 Mezzanine - S



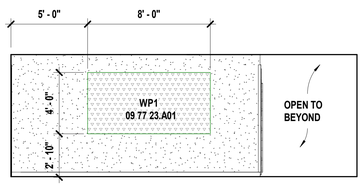
N9 Scale 1/4" = 1'-0" — Interior Elevation - A512 Mezzanine - N



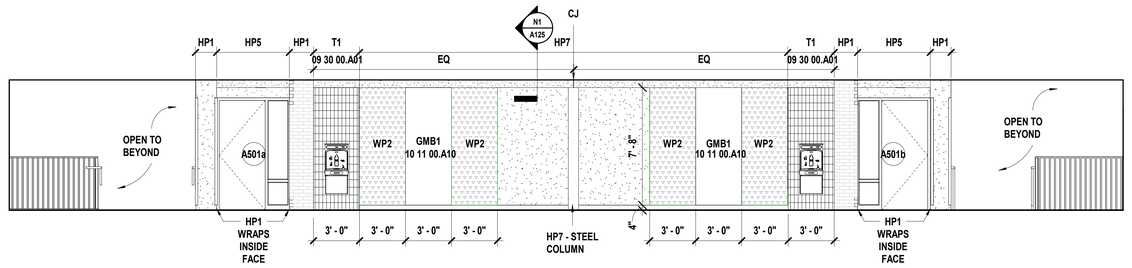
J1 Scale 1/4" = 1'-0" — Interior Elevation - Corridor A411/A511 - S



J6 Scale 1/4" = 1'-0" — Interior Elevation - A511 Corridor - W1

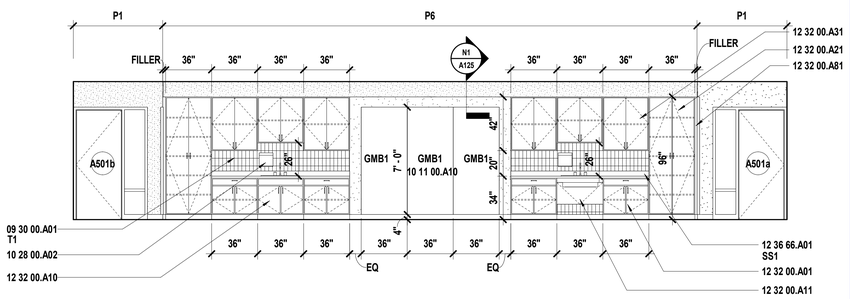


E1 Scale 1/4" = 1'-0" — Interior Elevation - Corridor A411/A511 - N

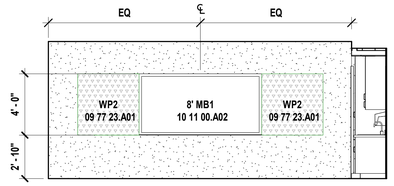


E6 Scale 1/4" = 1'-0" — Interior Elevation - A511 Corridor - E1

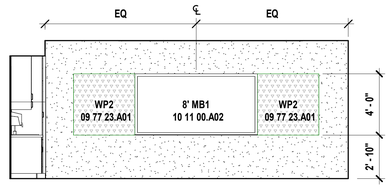
*ALL CASEWORK THIS ELEVATION TO BE PL1 & TO RECEIVE LOCKS, KEYED ALIKE PER ROOM



A1 Scale 1/4" = 1'-0" — Interior Elevation - A501 Flex - W1



A8 Scale 1/4" = 1'-0" — Interior Elevation - A501 Flex - S1



A12 Scale 1/4" = 1'-0" — Interior Elevation - A501 Flex - N1

SHEET KEYNOTE LEGEND

09 30 00.A01	TILE
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
10 11 00.A10	MAGNETIC GLASS WRITE BOARDS
10 14 00.A10	NON-ILLUMINATED
10 14 00.A42	FILM GRAPHICS (GLASS SUBSTRATE)
10 26 00.A03	CORNER GUARDS
10 28 00.A02	PAPER TOWEL DISPENSER
12 32 00.A01	BASE CABINET
12 32 00.A10	SINK BASE
12 32 00.A11	ADA SINK BASE
12 32 00.A21	TALL CABINET
12 32 00.A31	WALL CABINET
12 32 00.A81	FILLER
12 36 66.A01	SOLID SURFACE COUNTERTOP
12 36 66.A09	SOLID SURFACE WALL CAP

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
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7. ALL EXPOSED SURFACES TO RECEIVE PLASTIC LAMINATE
8. ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
9. PROVIDE 4" BACKSPLASH, UNO; ALIGN BACKSPLASH SEAMS WITH COUNTERTOP SEAMS.
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14. ALL TALL STORAGE AND WARDROBE CABINETS ARE TO BE 24" DEEP, UNO
15. ALL CASEWORK TO HAVE LOCKS TYPICAL, KEY ALIKE PER ROOM
16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW
17. ALL EXPOSED EDGES AT CASEWORK TO RECEIVE PVC EDGEBANDING, UNO.
18. ALL BUILT-UP SOLID SURFACE EDGES TO HAVE SEAMLESS CORNERS.
19. 7'H x 2" (U.N.O.) METAL CORNER GUARDS ON ALL OUTSIDE GYPSUM WALL CORNERS.

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mha Food Facility Consultants, LLC
Food Facility Planner
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785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2009015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A625

INTERIOR ELEVATIONS - LEVEL 2 - AREA A

12/8/2023 1:03:57 PM

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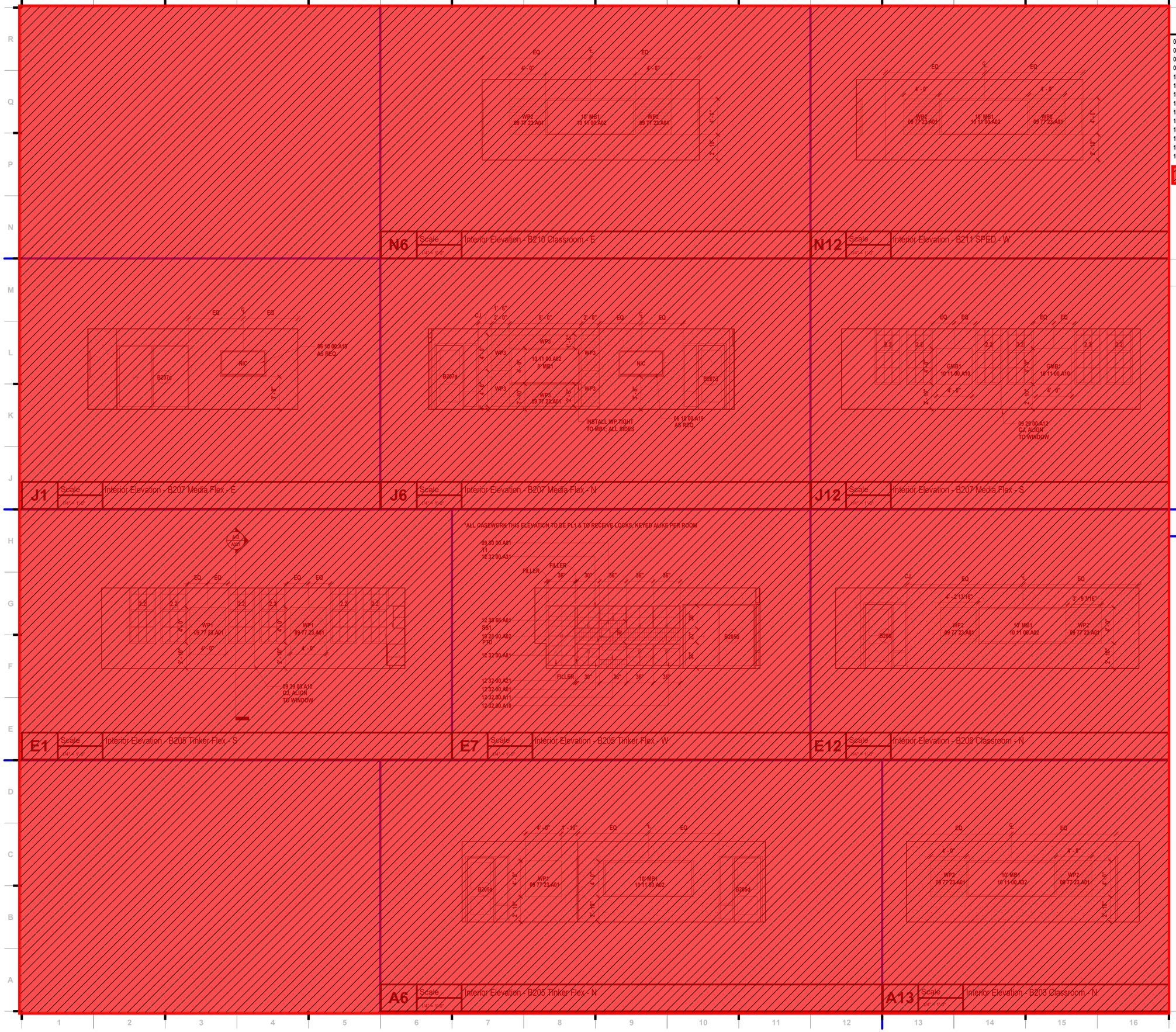

SHEET KEYNOTE LEGEND

06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
09 29 00.A12	EXPANSION (CONTROL) JOINT
09 30 00.A01	TILE
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
10 11 00.A10	MAGNETIC GLASS WRITE BOARDS
10 28 00.A02	PAPER TOWEL DISPENSER
12 32 00.A01	BASE CABINET
12 32 00.A10	SINK BASE
12 32 00.A11	ADA SINK BASE
12 32 00.A21	TALL CABINET
12 32 00.A31	WALL CABINET
12 32 00.A81	FILLER
12 36 66.A01	SOLID SURFACE COUNTERTOP

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

SHEET NOTES

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16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW
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100% CONSTRUCTION DOCUMENTS

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
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CHECKED BY: JB
DATE: 12.07.2023

A626

INTERIOR ELEVATIONS - LEVEL 2 - AREA B

12/8/2023 1:04:03 PM

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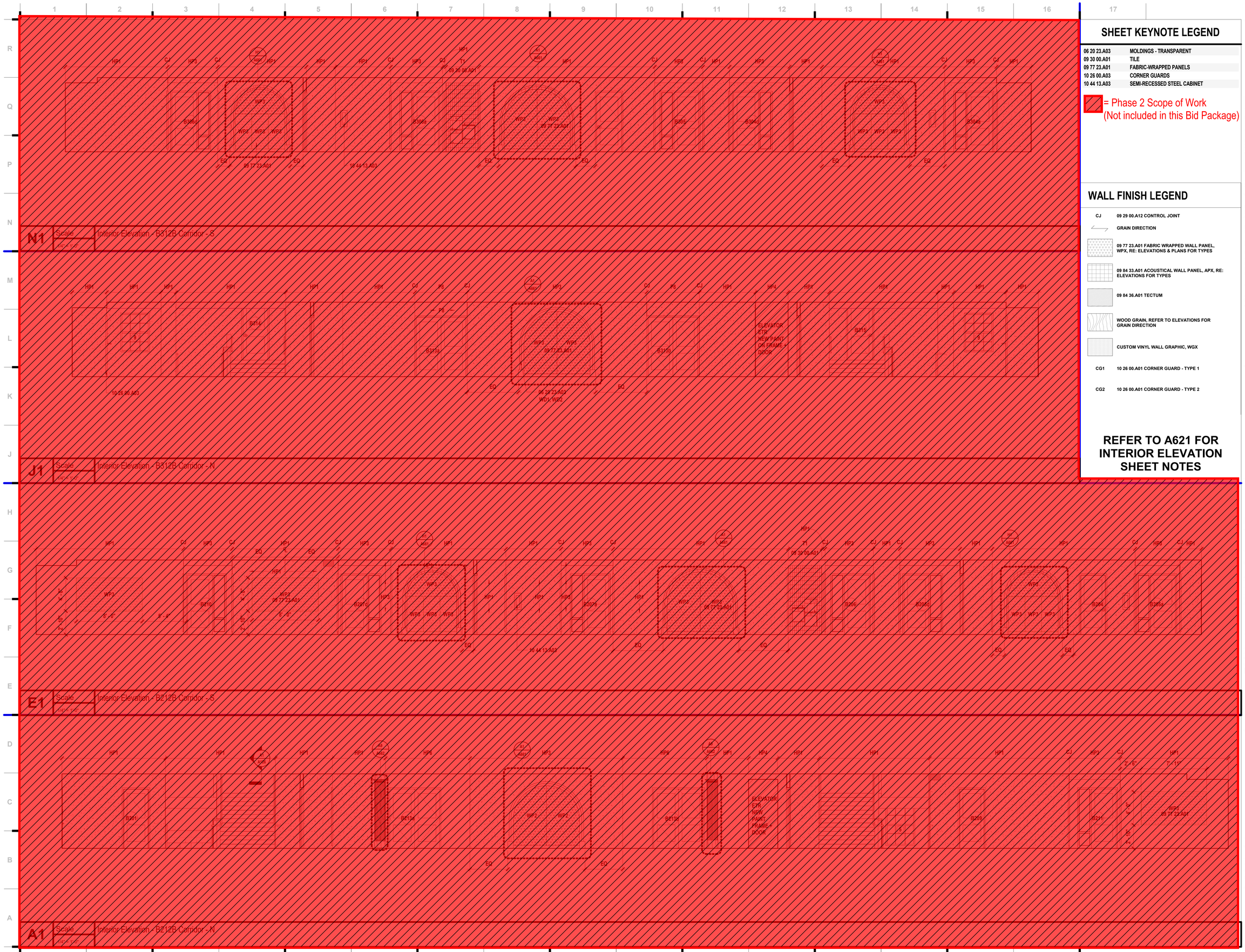

SHEET KEYNOTE LEGEND

06 20 23.A03	MOLDINGS - TRANSPARENT
09 30 00.A01	TILE
09 77 23.A01	FABRIC-WRAPPED PANELS
10 26 00.A03	CORNER GUARDS
10 44 13.A03	SEMI-RECESSED STEEL CABINET

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

REFER TO A621 FOR INTERIOR ELEVATION SHEET NOTES

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100% CONSTRUCTION DOCUMENTS

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KEVIN E. NELSON
A-2019015618
ARCHITECT
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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A627

INTERIOR ELEVATIONS - LEVELS 2 + 3 - AREA B

12/8/2023 1:04:07 PM

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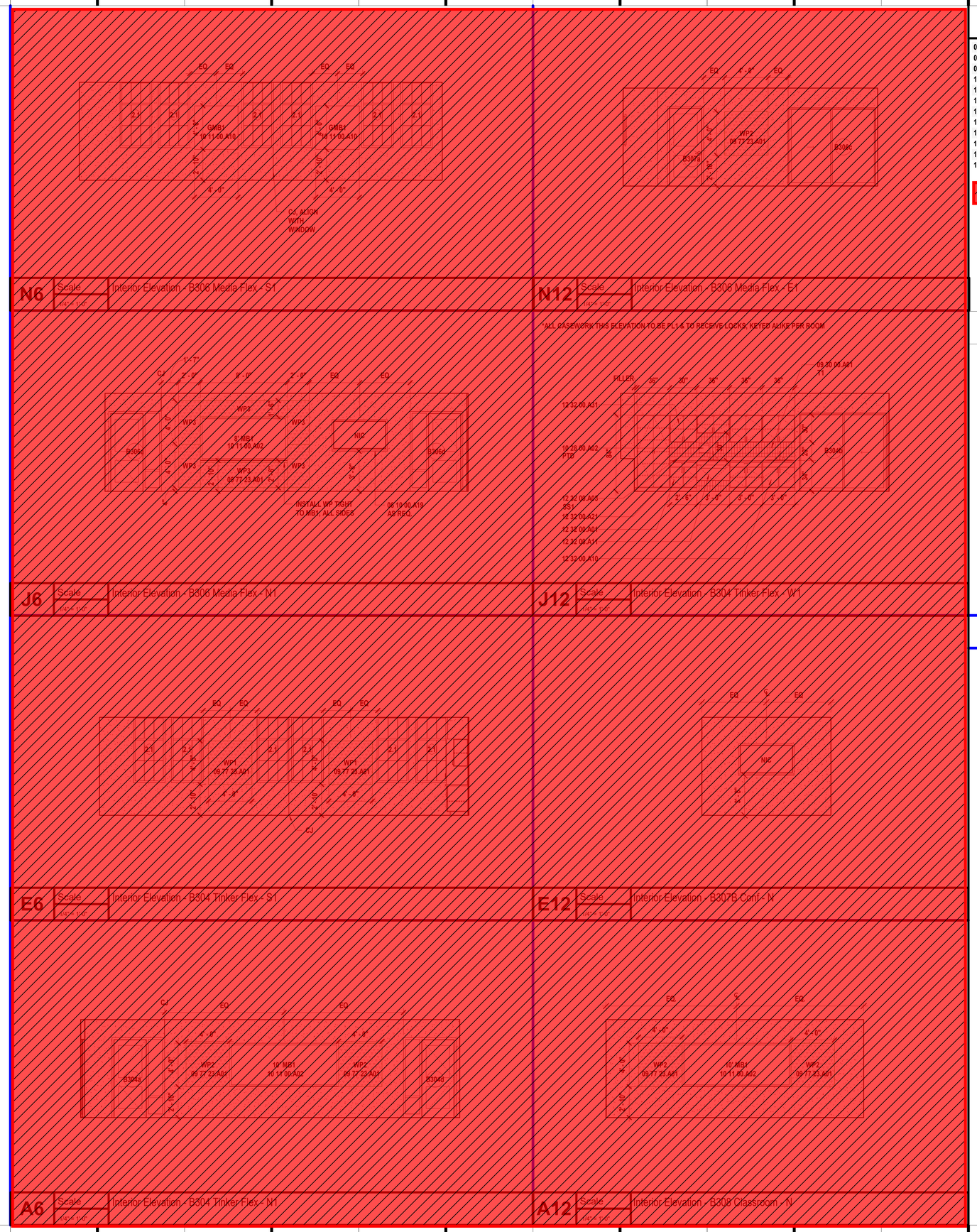

SHEET KEYNOTE LEGEND

06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
09 30 00.A01	TILE
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
10 11 00.A10	MAGNETIC GLASS WRITE BOARDS
10 28 00.A02	PAPER TOWEL DISPENSER
12 32 00.A01	BASE CABINET
12 32 00.A03	CUBICLE BASE CABINET WITH TRAYS
12 32 00.A10	SINK BASE
12 32 00.A11	ADA SINK BASE
12 32 00.A21	TALL CABINET
12 32 00.A31	WALL CABINET

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL FINISH LEGEND

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	GRAIN DIRECTION
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	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

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JOB NO: 23024
DRAWN BY: HL
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DATE: 12.07.2023

A628

INTERIOR ELEVATIONS - LEVEL 3 - AREA B

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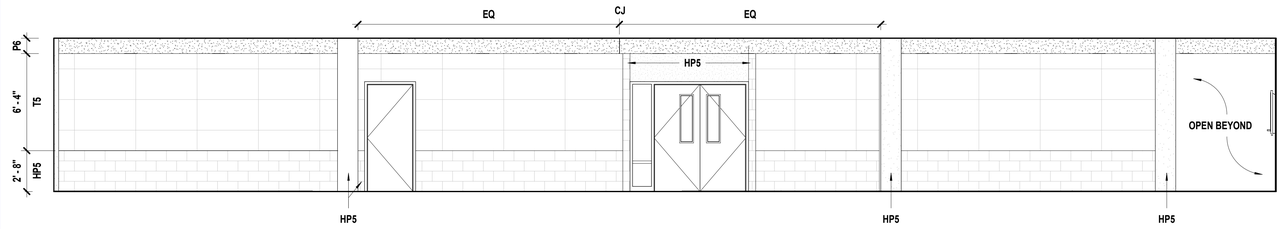
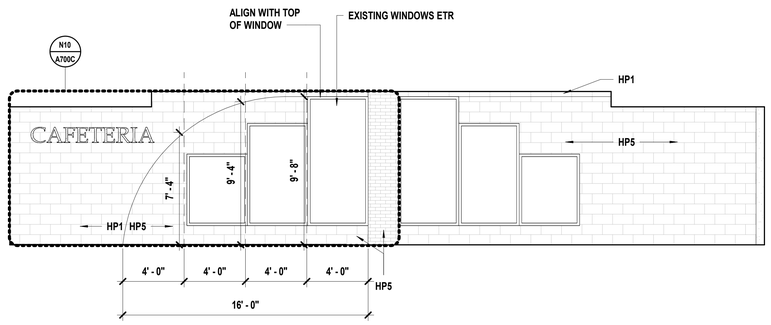
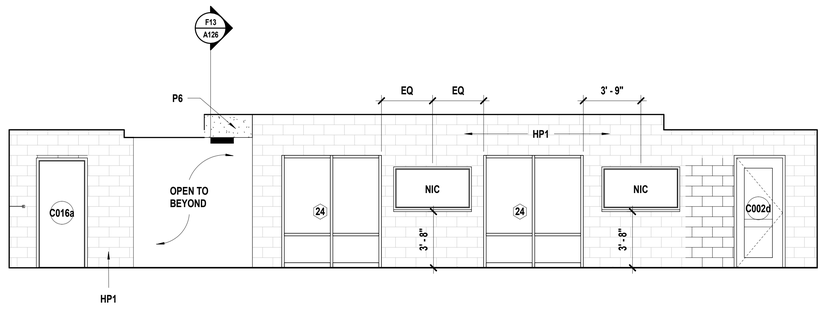


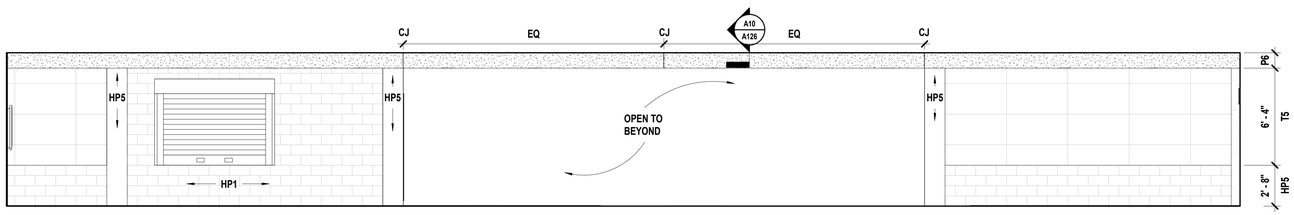
J6 | Scale 1/4" = 1'-0" | Interior Elevation - C001 Cafeteria - W



E1 | Scale 1/4" = 1'-0" | Interior Elevation - C001 Cafeteria - S



E9 | Scale 1/4" = 1'-0" | Interior Elevation - C001 Cafeteria - N



A6 | Scale 1/4" = 1'-0" | Interior Elevation - C001 Cafeteria - E

SHEET KEYNOTE LEGEND

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

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16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW
17. ALL EXPOSED EDGES AT CASEWORK TO RECEIVE PVC EDGEBANDING, UNO.
18. ALL BUILT-UP SOLID SURFACE EDGES TO HAVE SEAMLESS CORNERS.
19. 7'H x 2" (U.N.O.) METAL CORNER GUARDS ON ALL OUTSIDE GYPSUM WALL CORNERS.

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: ARH
CHECKED BY: JB
DATE: 12.07.2023

A629

INTERIOR ELEVATIONS - LEVEL 0 - AREA C

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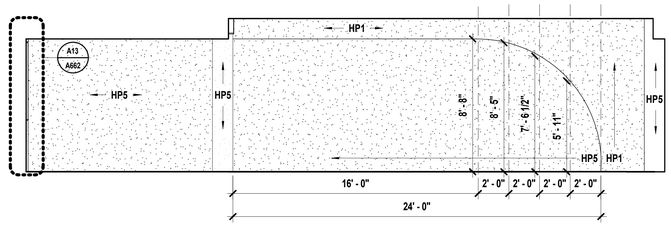
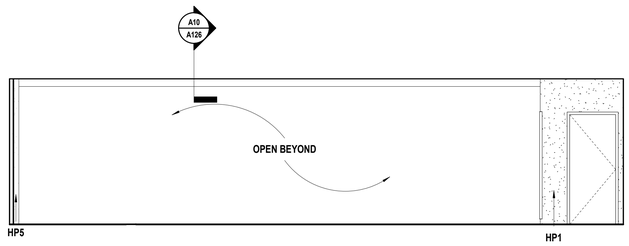
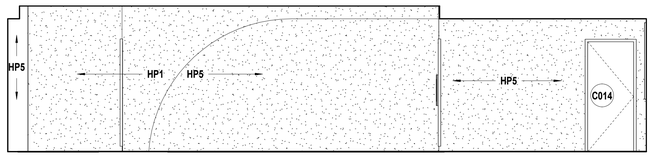


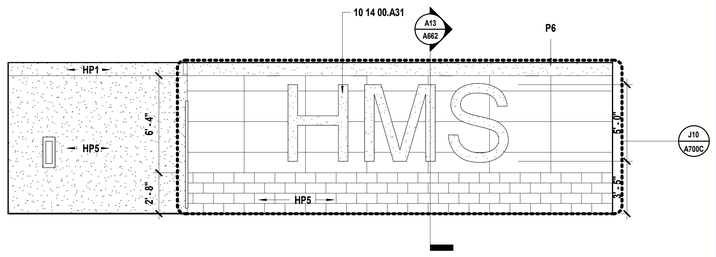
N9 Scale 1/4" = 1'-0" — Interior Elevation - C013 Seating - S



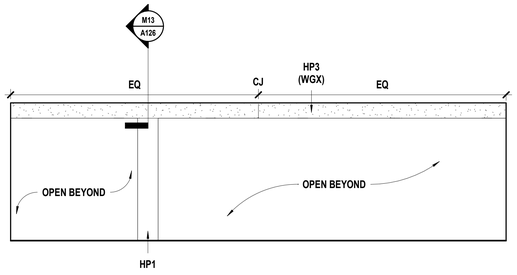
J11 Scale 1/4" = 1'-0" — Interior Elevation - C013 Seating - W



E11 Scale 1/4" = 1'-0" — Interior Elevation - C013 Seating - N



A5 Scale 1/4" = 1'-0" — Interior Elevation - C013 Seating - E



A11 Scale 1/4" = 1'-0" — Interior Elevation - C002 Scramble - E

SHEET KEYNOTE LEGEND

10 14 00.A31	CUSTOM

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
3. COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS
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5. COORDINATE WITH ELECTRICAL SHEETS FOR HEIGHT OF OUTLETS A.F.F. AND/OR ABOVE COUNTERTOPS
6. COORDINATE WITH MECHANICAL SHEETS FOR LOCATIONS OF WALL MOUNTED GRILLES AND REGISTERS
7. ALL EXPOSED SURFACES TO RECEIVE PLASTIC LAMINATE
8. ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
9. PROVIDE 4" BACKSPLASH, UNO; ALIGN BACKSPLASH SEAMS WITH COUNTERTOP SEAMS.
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CHECKED BY: JB
DATE: 12.07.2023

A630

INTERIOR ELEVATIONS - LEVEL 0 - AREA C

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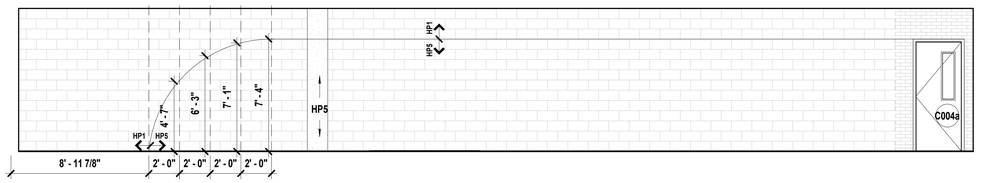
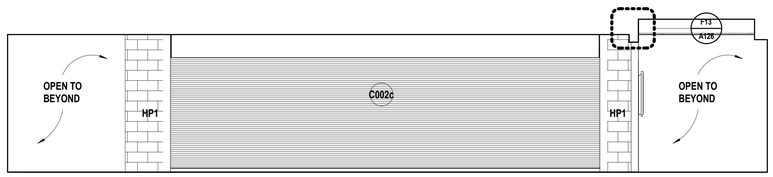
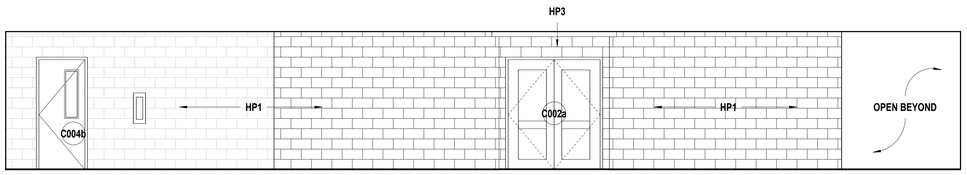


E1 Scale 1/4" = 1'-0" — Interior Elevation - Corridor C004 - N



E10 Scale 1/4" = 1'-0" — Interior Elevation - C004 Corridor - E



A1 Scale 1/4" = 1'-0" — Interior Elevation - Corridor C004 - S



A10 Scale 1/4" = 1'-0" — Interior Elevation - C004 Corridor - W

SHEET KEYNOTE LEGEND

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
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	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
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REVISIONS:

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A-2019015618
ARCHITECT
DECEMBER 7, 2023

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CHECKED BY: JB
DATE: 12.07.2023

A631

INTERIOR ELEVATIONS - LEVEL 0 - AREA C

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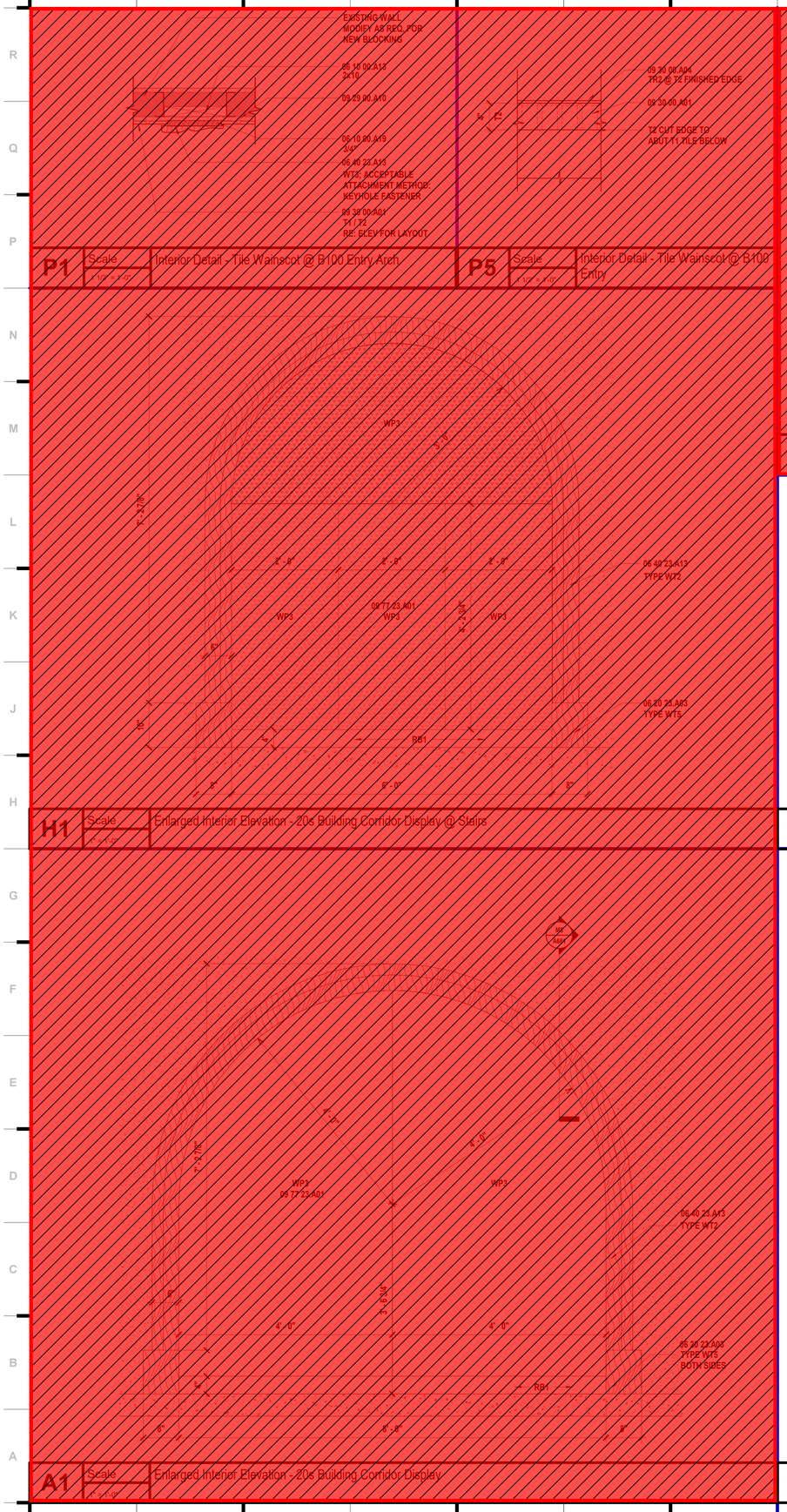
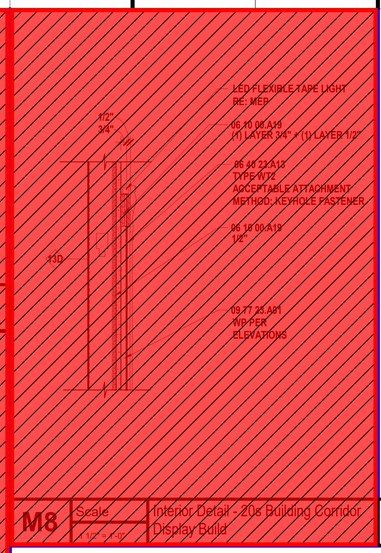
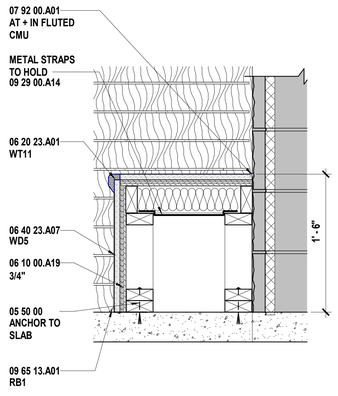


P1 Scale 1" = 1'-0" — Interior Detail - Tile Wainscot @ B100 Entry Arch

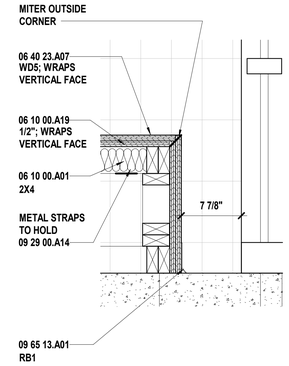
P5 Scale 1" = 1'-0" — Interior Detail - Tile Wainscot @ B100 Entry



M8 Scale 1" = 1'-0" — Interior Detail - 20s Building Corridor Display Build



M11 Scale 1 1/2" = 1'-0" — Interior Millwork Detail - Commons A414 - East Bench

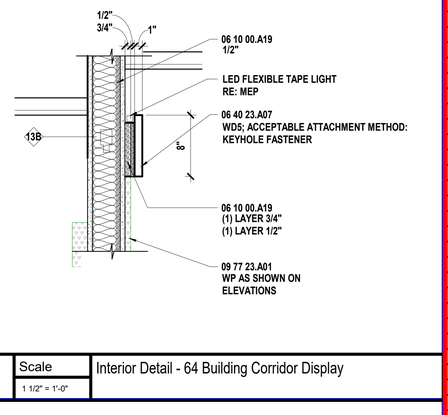


M14 Scale 1 1/2" = 1'-0" — Interior Millwork Detail - Commons A414 East Bench - Waterfall Edge

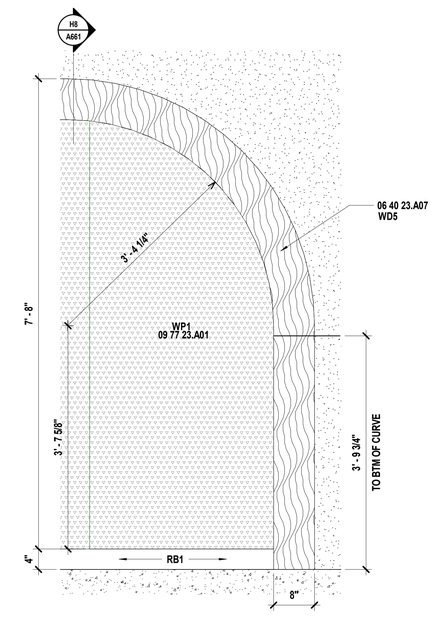
SHEET KEYNOTE LEGEND

05 50 00	METAL FABRICATIONS
06 10 00.A01	DIMENSION LUMBER FRAMING
06 10 00.A13	WOOD BLOCKING/NAILERS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 20 23.A01	TRIM - TRANSPARENT
06 20 23.A03	MOLDINGS - TRANSPARENT
06 40 23.A07	VENEERED PANELS
06 40 23.A13	ORNAMENTAL WOODWORK
06 40 23.A24	METAL EDGE TRIM
06 40 23.A25	SWINGING DISPLAY CASE DOOR SYSTEM
06 40 23.A27	DISPLAY CASE SHELVING SYSTEM
07 92 00.A01	SEALANT
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A10	CEMENTITIOUS BACKER UNITS
09 29 00.A14	SOUND ATTENUATION BLANKETS
09 30 00.A01	TILE
09 30 00.A04	METAL EDGE STRIPS
09 65 13.A01	RESILIENT BASE
09 77 00.A01	ARCHITECTURAL WALL CLADDING SYSTEM
09 77 23.A01	FABRIC-WRAPPED PANELS

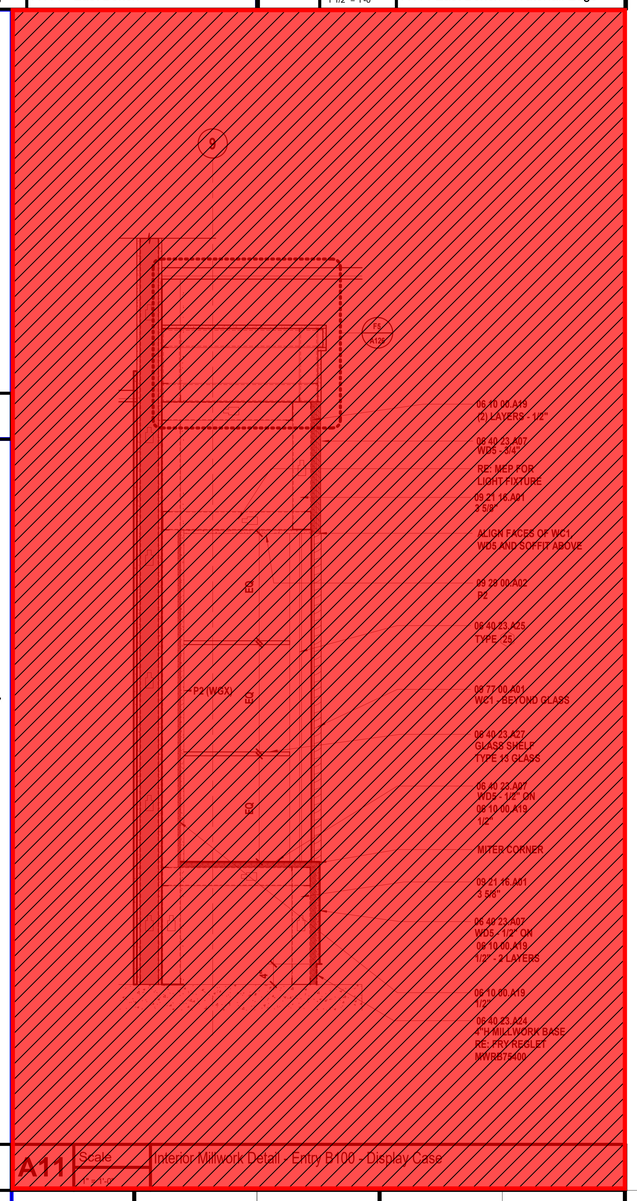
= Phase 2 Scope of Work
(Not included in this Bid Package)



H8 Scale 1 1/2" = 1'-0" — Interior Detail - 64 Building Corridor Display



A8 Scale 1" = 1'-0" — Interior Detail - '64 Building Corridor Display



A11 Scale 1" = 1'-0" — Interior Millwork Detail - Entry B100 - Display Case

A1 Scale 1" = 1'-0" — Enlarged Interior Elevation - 20s Building Corridor Display

H1 Scale 1" = 1'-0" — Enlarged Interior Elevation - 20s Building Corridor Display @ Stairs

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A661

INTERIOR DETAILS

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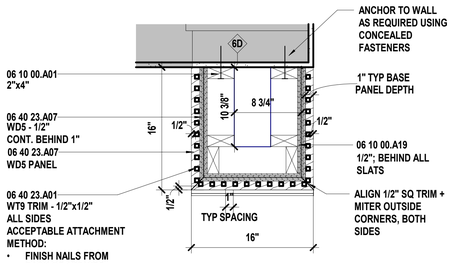
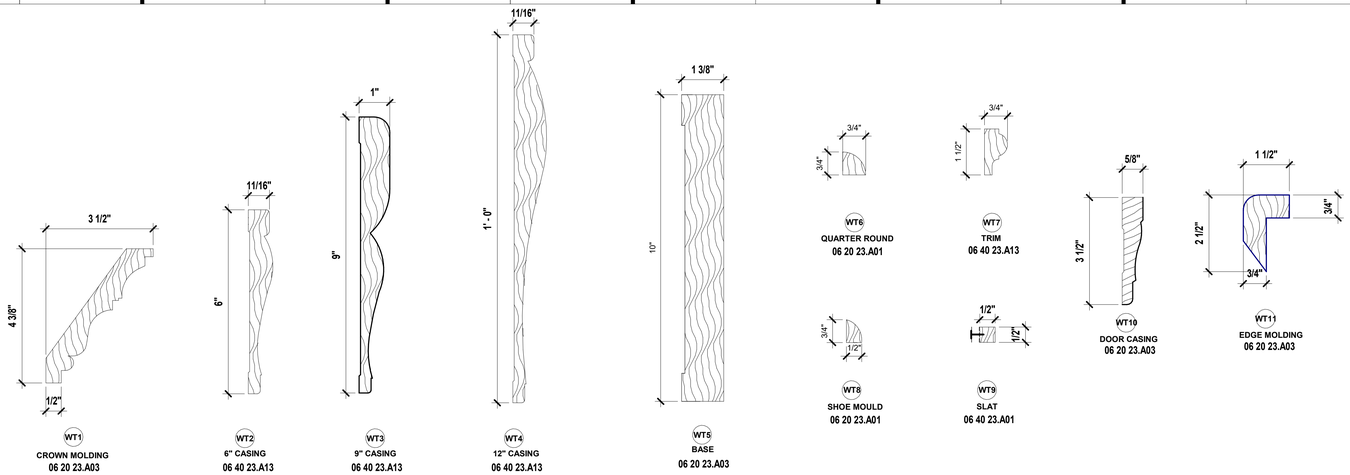


M1 | Scale: 1 1/2" = 1'-0" | Interior Detail - Historic Replica Column (TYP) - Plan View



M5 | Scale: 6" = 1'-0" | Wood Trim (WT) Types

A5 | Scale: 1 1/2" = 1'-0" | Interior Detail - Historic Replica Column (TYP) - Section

A9 | Scale: 1 1/2" = 1'-0" | Interior Detail - Historic Replica Column (TYP) - Elevation

A13 | Scale: 1 1/2" = 1'-0" | Interior Detail - Cafeteria C001 - Wood Tile - Signage

SHEET KEYNOTE LEGEND

06 10 00.A01	DIMENSION LUMBER FRAMING
06 10 00.A13	WOOD BLOCKING/NAILERS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 20 23.A01	TRIM - TRANSPARENT
06 20 23.A03	MOLDINGS - TRANSPARENT
06 40 23.A01	ORNAMENTAL TRIM - TRANSPARENT
06 40 23.A07	VENEERED PANELS
06 40 23.A13	ORNAMENTAL WOODWORK
09 30 00.A01	TILE
10 14 00.A31	CUSTOM

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DRAWN BY: HL
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A662

INTERIOR DETAILS

12/8/2023 1:04:32 PM

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ROOM FINISH SCHEDULE - AREAS A + C (SUMMER 1)

ROOM		FLOOR		WALLS				CEILING	
NO	Name	Finish	Base	North	East	South	West	Finish	Finish Remarks
A001	Media Center RR	FT1	FT1	HP1	HP1	HP1	HP2	CLG1	
A002	Stairwell	--	RB1	HP1	--	HP1	HP3	--	
A400	Classroom 8	C1	RB1	P1	P1	P1	P4	CLG1	
A401	Flex	C1	RB1	P1	P1	P1	P2	CLG1	1
A402	Classroom 8	C1	RB1	P1	P1	P1	P4	CLG1	
A403	Classroom 8	C1	RB1	P4	P1	P4	P1	CLG1	
A404	Classroom 8	C1	RB1	P4	P1	P4	P1	CLG1	
A405	Flex Conf	C1	RB1	P1	P1	P1	P2	CLG1	1
A406	Classroom 8	C1	RB1	P4	P1	P4	P1	CLG1	
A407	Classroom 8	C1	RB1	P4	P1	P4	P1	CLG1	
A409	SPED	C1	RB1	P1	P1	P1	P4	CLG1	
A410	SPED	C1	RB1	P1	P1	P1	P4	CLG1	
A411	Corridor	RE: PLAN	RB1	HP1	RE: ELEV	HP1	RE: ELEV	CLG1	
A412	Corridor	RE: PLAN	RB1	HP1	--	--	--	OTS	P6 DRYFALL
A413	Flex	C1	RB1	P2	P2	P8	--	CLG4	P6 DRYFALL; NOTE #6
A414	Commons	RE: PLAN	RB1	RE: ELEV	RE: ELEV	RE: ELEV	RE: ELEV	OTS	P2 DRYFALL; NOTE #6
A500	Classroom 7	C1	RB1	P1	P4	P1	P1	CLG1	
A501	Tinker Flex	RF5	RB1	P1	RE: ELEV	P1	P2	CLG1	1
A502	Classroom 7	C1	RB1	P1	P1	P1	P4	CLG1	
A503	Classroom 7	C1	RB1	P4	P1	P4	P1	CLG1	
A504	Classroom 7	C1	RB1	P4	P1	P4	P1	CLG1	
A505	Flex Conf	C1	RB1	P1	P1	P1	P2	CLG1	1
A506	Classroom 7	C1	RB1	P4	P1	P4	P1	CLG1	
A507	Classroom 7	C1	RB1	P4	P1	P4	P1	CLG1	
A508	Corridor	RF1	RB1	HP1	HP1	--	HP5	CLG1	
A509	SPED	C1	RB1	P1	P1	P1	P4	CLG1	
A510	SPED	C1	RB1	P1	P1	P1	P4	CLG1	
A511	Corridor	RE: PLAN	RB1	HP1	RE: ELEV	HP1	RE: ELEV	CLG1	
A511A	Custodial	CON1	RB1	HP1	HP1	HP1	HP1	OTS	8
A511B	Storage/IT	RF1	RB1	HP1	HP1	HP1	HP1	CLG1	
A512	Mezzanine	RF1	RB1	HP1	--	RE: ELEV	--	OTS	P2 DRYFALL
A513	Theater Storage	CON1	RB1	HP1	HP1	HP1	HP1	CLG1	7
A514	Collaboration	C1	RB1	P2	P1	P1	P1	CLG1	
C001	Cafeteria	RE: PLAN	RB1	RE: ELEV	RE: ELEV	RE: ELEV	RE: ELEV	CLG3	7
C002	Scramble	FT1	FT1	HP1	HP3	HP1	HP3	CLG2	
C003	Custodial	--	--	--	P1	--	--	--	8, 9
C004	Corridor	RE: PLAN	RB1	RE: ELEV	HP1	RE: ELEV	HP1	CLG1	7
C008	Kitchen	FT1	FT1						ALTERNATE #7
C009	Scullery	FT1	FT1						ALTERNATE #7
C010	IT Closet								
C011	Storage								
C012	Kitchen Storage	--	--	--	--	--	--	--	9
C013	Seating	RE: PLAN	RB1	RE: ELEV	RE: ELEV	RE: ELEV	RE: ELEV	CLG3	7
C013A	AV	CON1	RB1	HP1	HP1	HP1	HP1	OTS	
C014	Custodial	CON1	RB1	HP1	HP1	HP1	HP1	CLG1	8
C015	Staff RR	FT1	FT1	HP1	HP1	HP1	HP2	CLG1	RE: ENLARGED PLAN FOR SINK/TOILET WALL PAINT
C015a	Staff Toilet	FT1	FT1	HP1	HP1	HP2	HP1	CLG1	
C016	Boys RR	FT1	FT1	T3/T4	T3/T4	T3/T4	T3/T4	CLG1	
C016a	Janitors Closet	CON1	RB1	HP1	HP1	HP1	HP1	OTS	8
C017	Girls RR	FT1	FT1	T3/T4	T3/T4	T3/T4	T3/T4	CLG1	
C018	Corridor	RF1	RB1	HP1	HP1	HP1	HP1	--	2, 7
C018a	Vestibule	C2	RB1	--	--	--	--	--	
C019	Weights RR	FT1	FT1	HP2	HP1	HP1	HP1	CLG1	
C020	Boys RR	FT1	FT1	HP1	HP2	HP1	HP2	CLG1	
C021	Corridor	RF5	RB2	HP1	--	HP1	HP1	CLG1	3
C022	Girls RR	FT1	FT1	HP1	HP2	HP1	HP2	CLG1	
C023	Coach's RR	FT1	FT1	HP2	HP1	HP1	HP1	CLG1	
C024	Coach's RR	FT1	FT1	HP1	HP2	HP1	HP1	CLG1	
C212a	Toilet	FT1	FT1	HP1	HP2	HP1	HP1	CLG1	
C240	Boys RR	FT1	FT1	T3/T4	T3/T4	T3/T4	T3/T4	CLG1	
C241	Girls RR	FT1	FT1	T3/T4	T3/T4	T3/T4	T3/T4	CLG1	

MATERIAL FINISH LEGEND

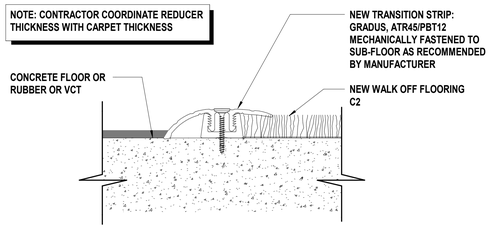
MATERIAL	ID	KEYNOTE	MANUFACTURER	STYLE/MODEL NO	COLOR/FINISH	COMMENTS
Acoustical Panels	AP1	09 84 33.A01	CARNEGIE	METEOR 6427	2032 - NAVY BLUE	
Acoustical Panels	AP2	09 84 36.A01	ARMSTRONG	TECTUM DIRECT ATTACH	SW 7551 - GREEK VILLA	
Carpet	C1	09 68 13.A01	PATCRAFT	LINEAR TENSION I0541	00450 - RIVER ROCK	ASHLAR INSTALL
Carpet	C2	09 68 13.A01	PATCRAFT	MOVING I0536	00560 - SAUNTER	ASHLAR INSTALL
Ceiling	CLG1	09 51 13.A01	USG	24"x48" TILE	2310 - RADAR	
Ceiling	CLG2	09 51 13.A01	USG	24"x48" TILE	3410 - KITCHEN LAY-IN PANEL	
Ceiling	CLG3	09 51 13.A01	ARMSTRONG	CALLA 24"x48"	2233 - CUSTOM MATCH P2	
Ceiling	CLG4	09 84 36.A01	ARMSTRONG	TECTUM DIRECT ATTACH	CUSTOM MATCH P6	
Concrete Finish	CON1	03 30 00.A01			SEALED CONCRETE	
Floor (Poured) Topping	FT1	09 67 23.A01	DESCO COATINGS	CREMONA QUARTZ TG - 8" INTEGRAL BASE, ORANGE PEEL TEXTURE	CUSTOM MIX TO MATCH ARCHITECT'S SAMPLE	SCRAMBLE / KITCHEN
Floor (Poured) Topping	FT2	09 67 23.A01	DESCO COATINGS	CREMONA QUARTZ TG - 8" INTEGRAL BASE	19% SW6221, 41% SW7011, 40% SW7024	RESTROOM RENOS
High Performance Coating	HP1	09 96 00	SHERWIN WILLIAMS		SW 7011 - NATURAL CHOICE	
High Performance Coating	HP2	09 96 00	SHERWIN WILLIAMS		SW 9135 - WHIRLPOOL	RESTROOM RENOS
High Performance Coating	HP3	09 96 00	SHERWIN WILLIAMS		SW 6230 - RAINSTORM	
High Performance Coating	HP4	09 96 00	SHERWIN WILLIAMS		SW 9163 - TIN LIZZIE	STAIRS
High Performance Coating	HP5	09 96 00	SHERWIN WILLIAMS		SW 6195 - ROCK GARDEN	
High Performance Coating	HP6	09 96 00	SHERWIN WILLIAMS		SW 7065 - ARGOS	
High Performance Coating	HP7	09 96 00	SHERWIN WILLIAMS		SW 6233 - SAMOVAR SILVER	
Paint	P1	09 91 23	SHERWIN WILLIAMS		SW 7011 - NATURAL CHOICE	
Paint	P2	09 91 23	SHERWIN WILLIAMS		SW 6230 - RAINSTORM	
Paint	P3	09 91 23	SHERWIN WILLIAMS		SW 9135 - WHIRLPOOL	
Paint	P4	09 91 23	SHERWIN WILLIAMS		SW 6233 - SAMOVAR SILVER	
Paint	P5	09 91 23	SHERWIN WILLIAMS		SW 6195 - ROCK GARDEN	
Paint	P6	09 91 23	SHERWIN WILLIAMS		SW 7551 - GREEK VILLA	CEILINGS ONLY
Paint	P7	09 91 23	SHERWIN WILLIAMS		SW 9163 - TIN LIZZIE	HM DOORS/FRAMES
Paint	P8	09 91 23	SHERWIN WILLIAMS		SW 7065 - ARGOS	
Paint	P9	09 91 23	SHERWIN WILLIAMS		SW 7068 - GRIZZLE GRAY	
Plastic Laminate	PL1	12 32 00	WILSONART	8208 - FAWN CYPRESS	38 - FINE VELVET TEXTURE	
Plastic Laminate	PL2	06 40 23.A08	WILSONART	8208 - FAWN CYPRESS	38 - FINE VELVET TEXTURE	
Resilient Base & Accessories	RB1	09 65 13.A01	TARKETT	4" TS BASE	TG2 - SHARK FIN	
Resilient Base & Accessories	RB2	09 65 13.A01	TARKETT	4" TS BASE	FIELD MATCH EXISTING BASE	ATTIC STOCK?
Resilient Flooring	RF1	09 65 19.A01	PATCRAFT	I347V - ADMIX - 36"x36"	00130 - SUNDIAL	
Resilient Flooring	RF2	09 65 19.A01	PATCRAFT	I347V - ADMIX - 36"x36"	00520 - SCALLOP	
Resilient Flooring	RF3	09 65 19.A01	PATCRAFT	I347V - ADMIX - 36"x36"	00720 - DOVE SHELL	
Resilient Flooring	RF4	09 65 19.A01	ARMSTRONG	EXCELON	12x12 - FIELD MATCH EXISTING TILE	ATTIC STOCK?
Resilient Flooring	RF5	09 65 19.A01	PATCRAFT	I721V - TREELINE 5MM	00163 - HONEY V2	LVT - CLASSROOMS
Simulated Stone	SS1	12 36 66.A01	LX HAUSYS		R009 - PAUSE	
Simulated Stone	SS2	12 36 66.A05	LX HAUSYS		R009 - PAUSE	
Stain & Transparent Finish	ST1	09 93 00.A02			CUSTOM MATCH PL1	
Tile	T1	09 30 00.A01	DALTILE	3"x6" - CLASSIC	K175 - BISCUIT	
Tile	T2	09 30 00.A01	DALTILE	3"x6" - CLASSIC W/ BEVEL EDGE	K175 - BISCUIT	
Tile	T3	09 30 00.A01	DALTILE	VOL1.0 - REVERB	12"x24" - ASH (VL74)	RESTROOM RENOS
Tile	T4	09 30 00.A01	DALTILE	COLOR WHEEL	4"x16" - WHITE	RESTROOM RENOS
Tile	T5	09 30 00.A01	TILEBAR	24"x48" TILE	MAPLE RIBBON	STACKED BOND
Tile	TG1	09 30 00	MAPEI	EPOXY GROUT	02 - PEWTER	RESTROOM RENOS
Tile	TG2	09 30 00	MAPEI	EPOXY GROUT	104 - TIMBERWOLF	FIELD TILES (T1/T2)
Tile	TG3	09 30 00	MAPEI	EPOXY GROUT	111 - HICKORY	W/ T5 TILES
Trim	TR1	09 30 00.A04	SCHLUTER	RENO-V	STAINLESS STEEL	TILE AT EPOXY COVE
Trim	TR2	09 30 00.A04	SCHLUTER	QUADEC	STAINLESS STEEL	TILE OUTSIDE CORNERS
Trim	TR3	09 30 00.A04	SCHLUTER	DILEX-AHKA	STAINLESS STEEL	TILE AT FLOOR W/O TILE BASE
Trim	TR4	09 30 00.A04	SCHLUTER	JOLLY	STAINLESS STEEL	CURVED TILE EDGE
Wall Coverings	WC1	09 77 00.A01	RULON	WOODBACKED + DOWELED	RED OAK W/ ST1 FINISH	
Wall Coverings	WC2	06 64 00.A01	MARLITE	CLASS A	P100 - WHITE	
Wood	WD4	06 40 23.A01		RED OAK	RIFT SAWN W/ ST1	ARCH SLATS
Wood	WD5	06 40 23.A07		RED OAK	RIFT SAWN W/ ST1	VENEERED PANELS - 64 ENTRY
Wall Paneling	WP1	09 77 23.A01	LUNA TEXTILES	WOOHL(WHL)	5581 SUBMARINE	
Wall Paneling	WP2	09 77 23.A01	CARNEGIE	XOREL METEOR 6427	766 - GRAY	
Wall Paneling	WP3	09 77 23.A01	MAHARAM	MANNER 466177	044 - POPLAR	
Wood	WT		MILLWORK TRIM	RED OAK	PLAIN SAWN - CLEAR FINISH	RE: A662 FOR TYPES/PROFILES

ROOM SCHEDULE REMARKS

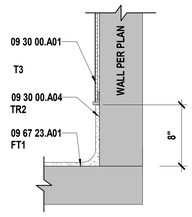
1. PROVIDE LEVEL 5 FINISH FOR GYPSUM BOARD SURFACE WHERE **WGX** IS DESIGNATED OR ANY INSTANCE OF P2 AND P5 . RE: FINISH FLOOR PLANS AND INTERIOR ELEVATIONS FOR TRANSITION CLARIFICATION.
2. CORRIDOR C018 TO RECEIVE NEW FLOORING + BASE ONLY. PROTECT ALL OTHER EXISTING FINISHES.
3. VERIFY EXISTING VCT + WALL BASE ATTIC STOCK LEVELS WITH OWNER PRIOR TO BIDDING. IF ADDITIONAL SF OF PRODUCT IS REQUIRED, PROVIDE NEW TO MATCH.
4. MAINTAIN EXISTING ENTRY SOFFIT PROFILE + PAINT NEW P6. EXISTING TERRAZZO FLOOR TO REMAIN + RECEIVES NEW C2 IN SELECT AREAS (RE: FINISH PLANS).
5. REFER TO A400 SERIES SHEETS FOR NEW FINISH SCOPE IN EXISTING STAIRWELLS.
6. NO RB1 ON EXISTING FLUTED CMU WALLS
7. INSTALL ADDITIONAL RESILIENT FLOOR URETHANE TOPCOAT IN AREAS INDICATED IN ROOM FINISH SCHEDULE; REFER TO SPECIFICATION FOR PRODUCT INFORMATION.
8. INSTALL WC2 UP TO 4' - 0" AFF.
9. VERIFY ATTIC STOCK WITH OWNER AND IF SUFFICIENT, USE TO PATCH BACK CEILINGS, PAINT, WALL BASE + FLOORING TO MATCH EXISTING CONDITIONS. IF SUFFICIENT ATTIC STOCK DOES NOT EXIST, PROVIDE NEW MATERIALS TO MATCH EXISTING CONDITIONS.
10. ALL CORRIDORS TO RECEIVE HP PAINT; COORDINATE WITH ELEVATIONS FOR COLORS + TRANISTIONS IF NOT NOTED IN SCHEDULE.

GENERAL FINISH NOTES

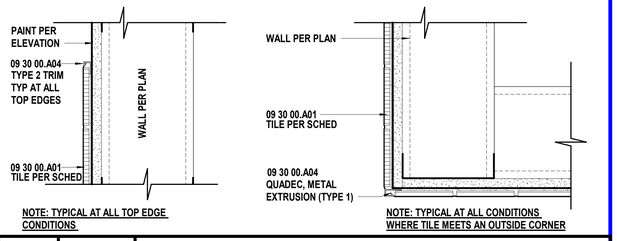
1. REFER TO FINISH FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES.
2. DO NOT PAINT NATURAL OR MANUFACTURED STONE, BRICK, GLAZED BLOCK OR ANY OTHER PREFINISHED MATERIALS.
3. DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.
4. MATCH VERTICAL FINISH OF ALL INTERIOR GYPSUM BOARD SOFFITS TO HORIZONTAL FINISH AS NOTED ON RCP OR ROOM FINISH SCHEDULE, UNO.
5. PAINT ALL EXPOSED CEILINGS DESIGNATED AS 'OTS' AS INDICATED ON ROOM FINISH SCHEDULE. PAINTING INCLUDES, BUT IS NOT LIMITED TO: EXPOSED STRUCTURE, JOISTS, METAL DECKING, EXISTING TECTUM PANELS, DUCTWORK AND MECHANICAL EQUIPMENT. **OTS SPACES TO BE COLOR P6, UNO.**
6. PAINT ALL EXPOSED STEEL, UNO.
7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR P7, UNO.
8. PAINT OR FINISH THE FOLLOWING ITEMS TO MATCH ADJACENT PAINT OR FINISH:
   a. ELECTRICAL PANELS IN FINISHED ROOMS
   b. GRILLES, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED
   c. UNFINISHED SPEAKER OUTLET GRILLES
   d. VISIBLE PORTIONS OF DUCTWORK AND MECH EQUIPMENT BEHIND VENTS, GRILLES AND DIFFUSERS
9. T1, T2 AND T5 TILE TO BE INSTALLED IN A VERTICAL STACKED BOND PATTERN, UNO. PROVIDE CONTINUOUS METAL TRIM AT AREAS NOTED:
   a. **TR2:** ALL EXPOSED TILE EDGES ALONG WALL
   b. **TR3:** IN LOCATIONS WHERE TILE MEETS THE FLOOR W/O RB1
   c. **TR4**: AT CURVED EDGES OF TILE INSTALLATION



D5 Scale 1:2" = 1'-0" — Flooring Reducer Strip Detail



A1 Scale 1 1/2" = 1'-0" — Resinous Floor Detail



A5 Scale 3" = 1'-0" — Finish Detail - Typical Tile Trim

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023

Kevin E. Nelson
A-2019015618

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A681

ROOM FINISH SCHED. (AREAS A + C) + MAT. FINISH LEGEND

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ROOM FINISH SCHEDULE - AREA B (SUMMER 2)

ROOM NO.	Name	FLOOR Finish	Base	WALLS North	East	South	West	CEILING Finish	Finish Remarks
B000	Flex	RE: PLAN	RB1	P4	RE: PLAN	RE: PLAN	P1	CLG1	ALTERNATE #2
B000A	Corridor	RF1	RB1	HP1	HP1		HP1	CLG1	
B001	Health Classroom 8	C1	RB1	P1	P1	P1	P4	CLG1	
B003	Health Classroom 8	C1	RB1	P1	P1	P1	P4	CLG1	
B004	Girls RR	FF1	FF1	T3/T4	T3/T4	T3/T4	T3/T4	CLG1	
B007	Boys RR	FF1	FF1	T3/T4	T3/T4	T3/T4	T3/T4	CLG1	
B100	Entry	C2	RB1	P1	T1/T2	P1	P2	CLG1	4
B101a	Corridor	RF1	RB1	HP1	HP1	HP1	HP1	CLG1	
B101b	Corridor	RF1	RB1	HP1	HP1	HP1	HP1	CLG1	
B101b	Sojuwell	HP4	RB1	HP1	HP1	HP1			
B101c	Corridor	RF1	RB1	HP1	HP1	HP1	HP1	CLG1	
B101d	Corridor	RF1	RB1	HP1	HP1	HP1	HP1	CLG1	
B101e	Corridor	RF1	RB1	HP1	HP1	HP1	HP1	CLG1	
B102	Hall of Fame	RF1	RB1	P2	P2	P2	P2	CLG1	ALTERNATE #2
B103	Collaboration	C1	RB1	P4	P1	P1	P1	CLG1	ALTERNATE #2
B105	Counseling Reception	C1	RB1	P2	P1	P1	P1	CLG1	ALTERNATE #2
B106	Counselor	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B107	Counselor	RF1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B108	Records	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B109	Quiet Room	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B110	Counselor	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B111	Social Worker	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B112	Break Room	RF1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B113	Staff Quiet / Flex	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B114	Work Room	RF1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B115	Storage	RF1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B116	Admin	C1	RB1	P2	P1	P1	P1	CLG1	ALTERNATE #2
B117	Conference	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B118	Asst. Principal	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B119	Asst. Principal	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B120	Principal	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B121	Conference	C1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B122	Print / Stg	RF1	RB1	P1	P1	P1	P1	CLG1	ALTERNATE #2
B123	IT / Bldg	CON1	RB1	P1	P1	P1	P1	OTS	ALTERNATE #2
B150	Storage								
B201	Storage								9
B202	Speech / Debate / Broadcasting	C1	RB1	P1	P1	P4	P1	CLG1	
B203	Classroom 6	C1	RB1	P4	P1	P1	P1	CLG1	1
B205	Tinker Flex	RF5	RB1	P4	P2	P1	P2	CLG1	1
B206	Classroom 6	C1	RB1	P4	P2	P1	P2	CLG1	1
B207	Media Flex	C1	RB1	P4	P2	P1	P2	CLG1	1
B210	Classroom 6	C1	RB1	P1	P4	P1	P2	CLG1	1
B211	SPED	C1	RB1	P1	P1	P1	P4	CLG1	
B212	Quiet	CON1	RB1	HP1	HP1	HP1	HP1	OTS	9
B212A	Corridor	RF1	RB1	RE: ELEV	HP1	RE: ELEV	HP1	CLG1	1
B212B	Corridor	RF1	RB1	RE: ELEV	HP1	RE: ELEV	HP1	CLG1	1
B212C	Corridor	RF1	RB1	RE: ELEV	HP1	RE: ELEV	HP1	CLG1	1
B301	SPED	C1	RB1	P1	P1	P4	P1	CLG1	
B302	Classroom 6	C1	RB1	P4	P1	P1	P1	CLG1	
B304	Tinker Flex	RF5	RB1	P4	P2	P1	P2	CLG1	
B305	Classroom 6	C1	RB1	P4	P2	P1	P2	CLG1	
B306	Media Flex	C1	RB1	P4	P2	P1	P2	CLG1	
B307A	Storage	C1	RB1	P1	P1	P1	P1	CLG1	
B307B	Collaboration	C1	RB1	P2	P1	P1	P1	CLG1	
B308	Classroom 6	C1	RB1	P4	P1	P1	P1	CLG1	
B309	SPED	C1	RB1	P1	P1	P4	P1	CLG1	
B310A	Storage	C1	RB1	P1	P1	P1	P1	CLG1	
B312A	Corridor	RF1	RB1	RE: ELEV	HP1	RE: ELEV	HP1	CLG1	
B312B	Corridor	RF1	RB1	RE: ELEV	HP1	RE: ELEV	HP1	CLG1	
B312C	Corridor	RF1	RB1	RE: ELEV	HP1	RE: ELEV	HP1	CLG1	
B316	Roof Access	CON1	RB1	HP1	HP1	HP1	HP1	OTS	

ROOM SCHEDULE REMARKS

1. PROVIDE LEVEL 5 FINISH FOR GYPSUM BOARD SURFACE WHERE **WGX** IS DESIGNATED OR ANY INSTANCE OF P2 AND P5 . RE: FINISH FLOOR PLANS AND INTERIOR ELEVATIONS FOR TRANSITION CLARIFICATION.
2. CORRIDOR C018 TO RECEIVE NEW FLOORING + BASE ONLY. PROTECT ALL OTHER EXISTING FINISHES.
3. VERIFY EXISTING VCT + WALL BASE ATTIC STOCK LEVELS WITH OWNER PRIOR TO BIDDING. IF ADDITIONAL SF OF PRODUCT IS REQUIRED, PROVIDE NEW TO MATCH.
4. MAINTAIN EXISTING ENTRY SOFFIT PROFILE + PAINT NEW P6. EXISTING TERRAZZO FLOOR TO REMAIN + RECEIVES NEW C2 IN SELECT AREAS (RE: FINISH PLANS).
5. REFER TO A400 SERIES SHEETS FOR NEW FINISH SCOPE IN EXISTING STAIRWELLS.
6. NO RB1 ON EXISTING FLUTED CMU WALLS
7. INSTALL ADDITIONAL RESILIENT FLOOR URETHANE TOPCOAT IN AREAS INDICATED IN ROOM FINISH SCHEDULE; REFER TO SPECIFICATION FOR PRODUCT INFORMATION.
8. INSTALL WC2 UP TO 4' - 0" AFF.
9. VERIFY ATTIC STOCK WITH OWNER AND IF SUFFICIENT, USE TO PATCH BACK CEILINGS, PAINT, WALL BASE + FLOORING TO MATCH EXISTING CONDITIONS. IF SUFFICIENT ATTIC STOCK DOES NOT EXIST, PROVIDE NEW MATERIALS TO MATCH EXISTING CONDITIONS.
10. ALL CORRIDORS TO RECEIVE HP PAINT; COORDINATE WITH ELEVATIONS FOR COLORS + TRANISTIONS IF NOT NOTED IN SCHEDULE.

GENERAL FINISH NOTES

1. REFER TO FINISH FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES.
2. DO NOT PAINT NATURAL OR MANUFACTURED STONE, BRICK, GLAZED BLOCK OR ANY OTHER PREFINISHED MATERIALS.
3. DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.
4. MATCH VERTICAL FINISH OF ALL INTERIOR GYPSUM BOARD SOFFITS TO HORIZONTAL FINISH AS NOTED ON RCP OR ROOM FINISH SCHEDULE, UNO.
5. PAINT ALL EXPOSED CEILINGS DESIGNATED AS 'OTS' AS INDICATED ON ROOM FINISH SCHEDULE. PAINTING INCLUDES, BUT IS NOT LIMITED TO: EXPOSED STRUCTURE, JOISTS, METAL DECKING, EXISTING TECTUM PANELS, DUCTWORK AND MECHANICAL EQUIPMENT. **OTS SPACES TO BE COLOR P6, UNO.**
6. PAINT ALL EXPOSED STEEL, UNO.
7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR P7, UNO.
8. PAINT OR FINISH THE FOLLOWING ITEMS TO MATCH ADJACENT PAINT OR FINISH:
   a. ELECTRICAL PANELS IN FINISHED ROOMS
   b. GRILLES, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED
   c. UNFINISHED SPEAKER OUTLET GRILLES
   d. VISIBLE PORTIONS OF DUCTWORK AND MECH EQUIPMENT BEHIND VENTS, GRILLES AND DIFFUSERS
9. T1, T2 AND T5 TILE TO BE INSTALLED IN A VERTICAL STACKED BOND PATTERN, UNO. PROVIDE CONTINUOUS METAL TRIM AT AREAS NOTED:
   a. **TR2:** ALL EXPOSED TILE EDGES ALONG WALL
   b. **TR3:** IN LOCATIONS WHERE TILE MEETS THE FLOOR W/O RB1
   c. **TR4**: AT CURVED EDGES OF TILE INSTALLATION

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023

Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A682

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ROOM FINISH SCHEDULE (AREA B)

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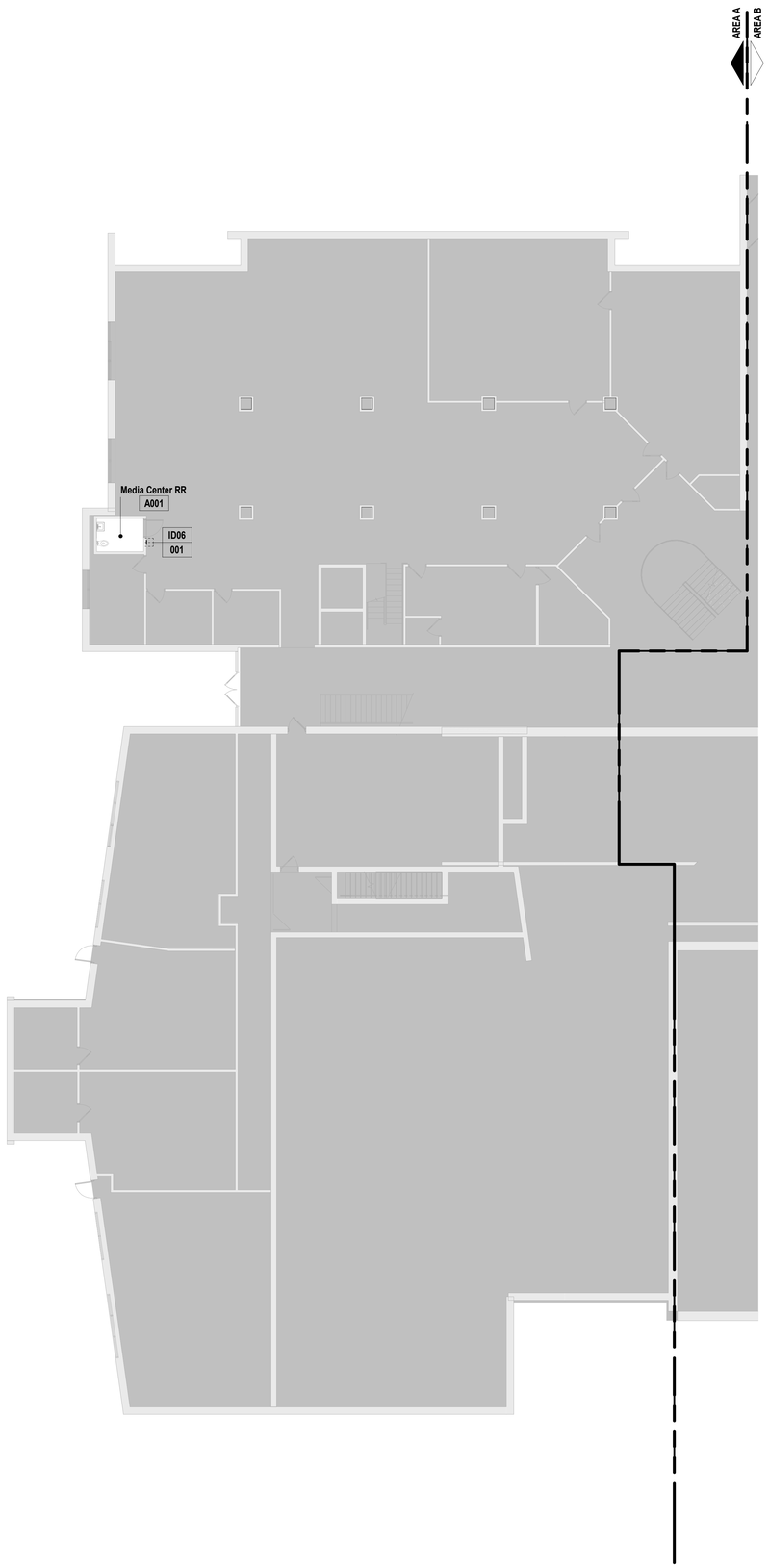

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ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A700A

A1 Scale 3/32" = 1'-0" — Code Signage Plan - Level 0 - Area A

PROJECT NORTH TRUE NORTH

SIGNAGE + EGD FLOOR PLAN - AREA A - LEVEL 0

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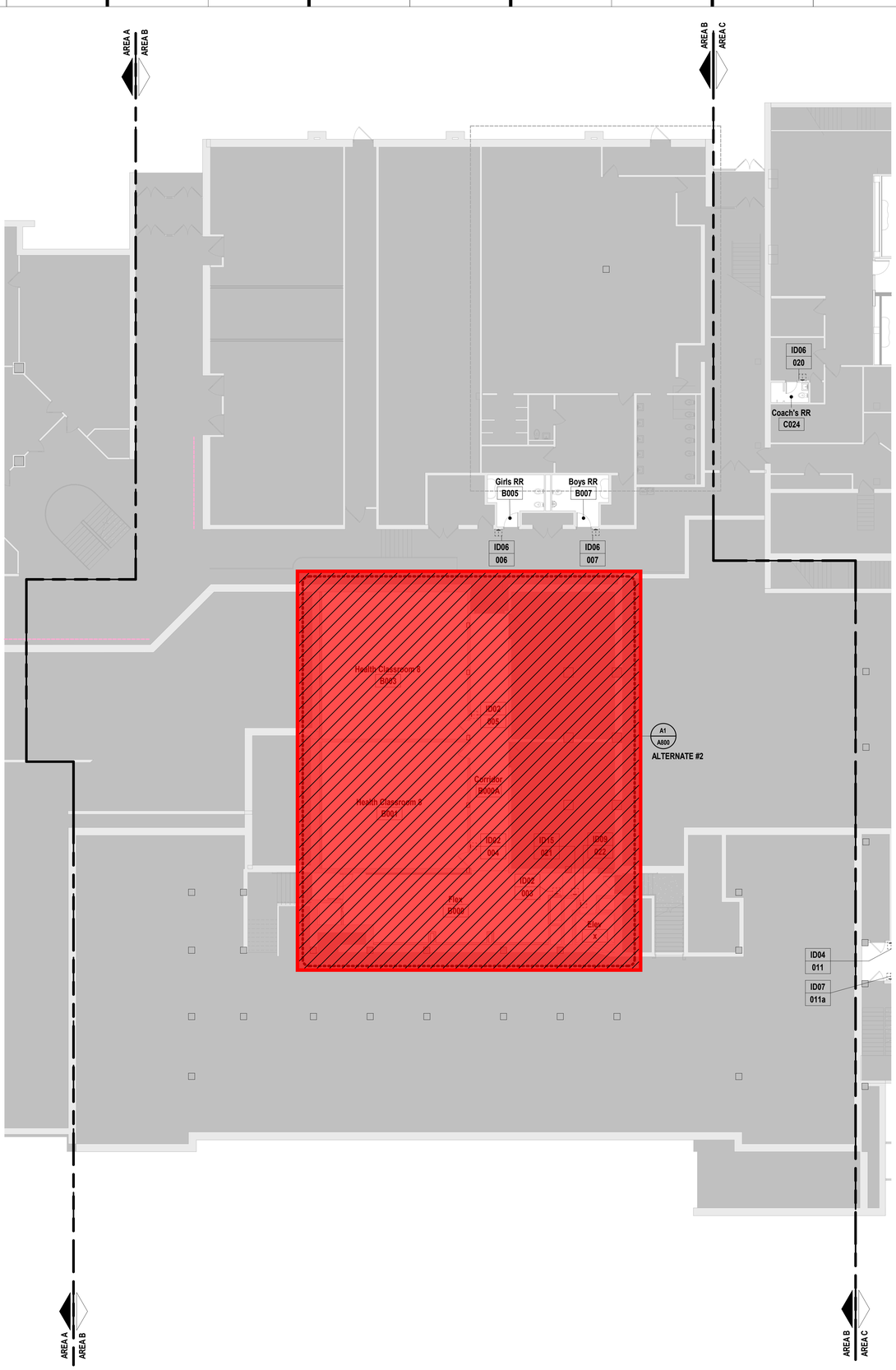

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= Phase 2 Scope of Work
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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A700B

A1 | Scale 3/32" = 1'-0" | Code Signage Plan - Level 0 - Area B

PROJECT NORTH TRUE NORTH

SIGNAGE + EGD FLOOR PLAN - AREA B - LEVEL 0

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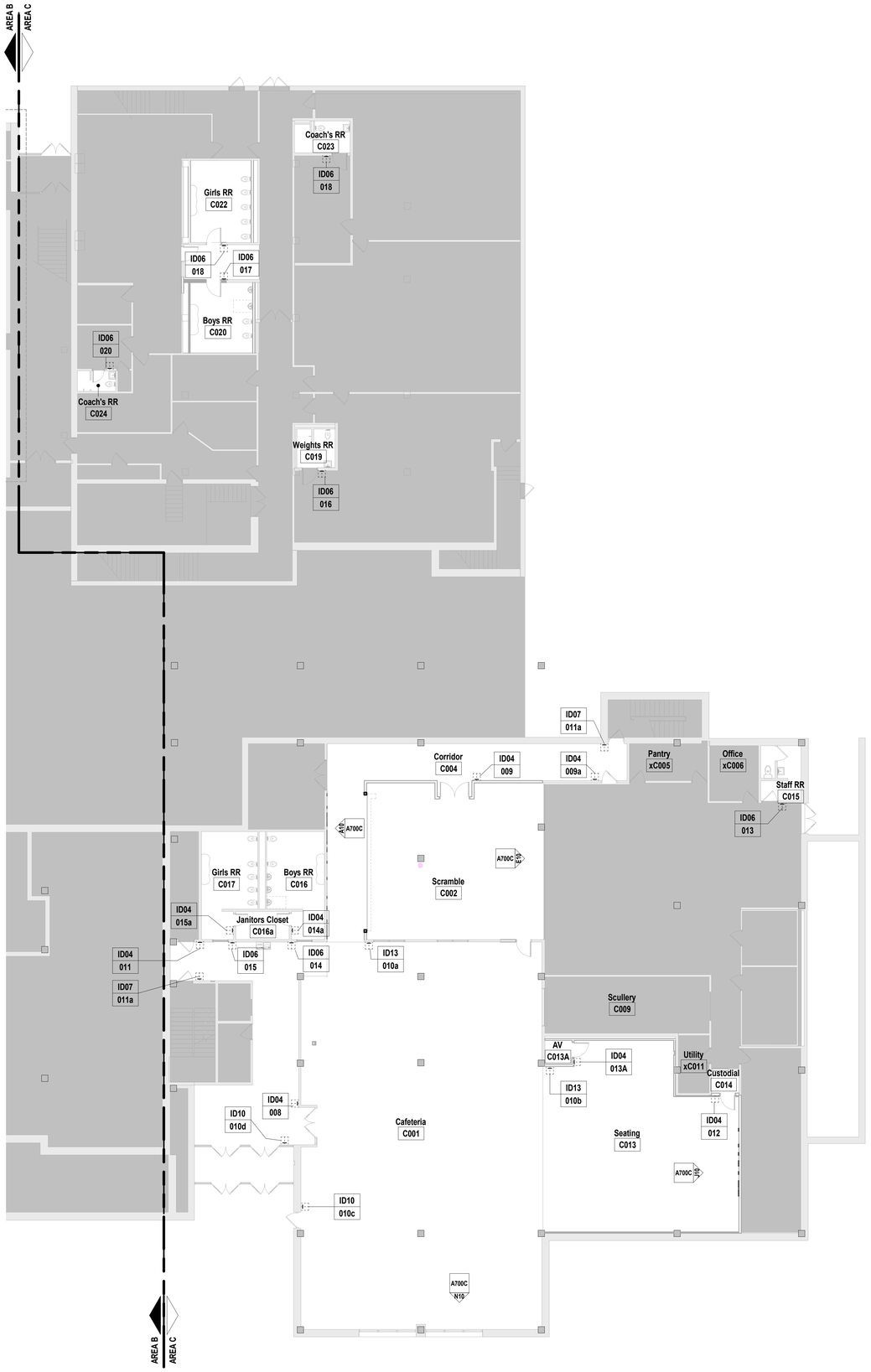
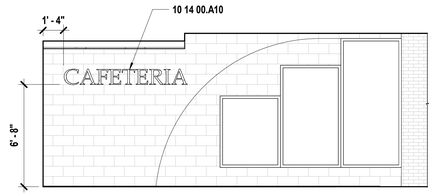
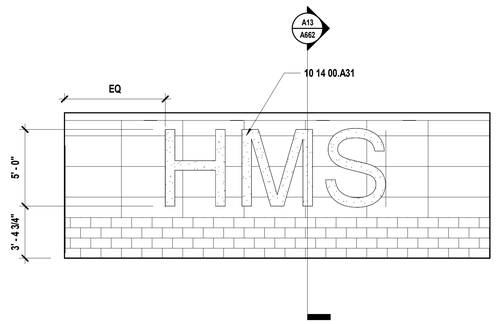


A1 Scale 3/32" = 1'-0" — Code Signage Plan - Level 0 - Area C

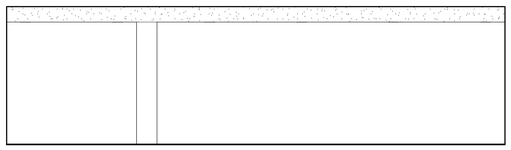
PROJECT NORTH TRUE NORTH



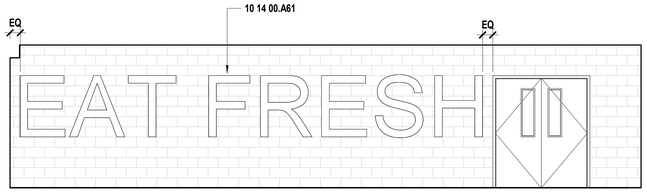
N10 Scale 1/4" = 1'-0" — Graphics Elevation - Area C - C001 Signage



J10 Scale 1/4" = 1'-0" — Graphics Elevation - Area C - C013 Signage



E10 Scale 1/4" = 1'-0" — Graphics Elevation - Area C - C002 Signage



A10 Scale 1/4" = 1'-0" — Graphics Elevation - Area C - C004 Corridor Signage

SHEET KEYNOTE LEGEND

10 14 00.A10	NON-ILLUMINATED
10 14 00.A31	CUSTOM
10 14 00.A61	EPOXY PAINTED GRAPHIC

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DATE: 12.07.2023

A700C

SIGNAGE + EGD FLOOR PLAN - AREA C - LEVEL 0

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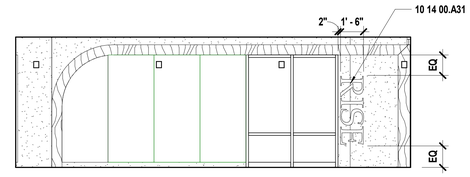
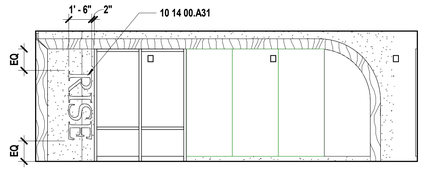
A1 Scale 3/32" = 1'-0" — Code Signage Plan - Level 1 - Area A



F11 Scale 1/4" = 1'-0" — Enlarged Interior Elevation - Area A Corridor Level 1 - SPED A409 Signage



A11 Scale 1/4" = 1'-0" — Enlarged Interior Elevation - Area A Corridor Level 1 - SPED A410 Signage

SHEET KEYNOTE LEGEND

10 14 00.A31 CUSTOM

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023

Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A701A

SIGNAGE + EGD FLOOR PLAN - AREA A - LEVEL 1

12/8/2023 1:04:56 PM

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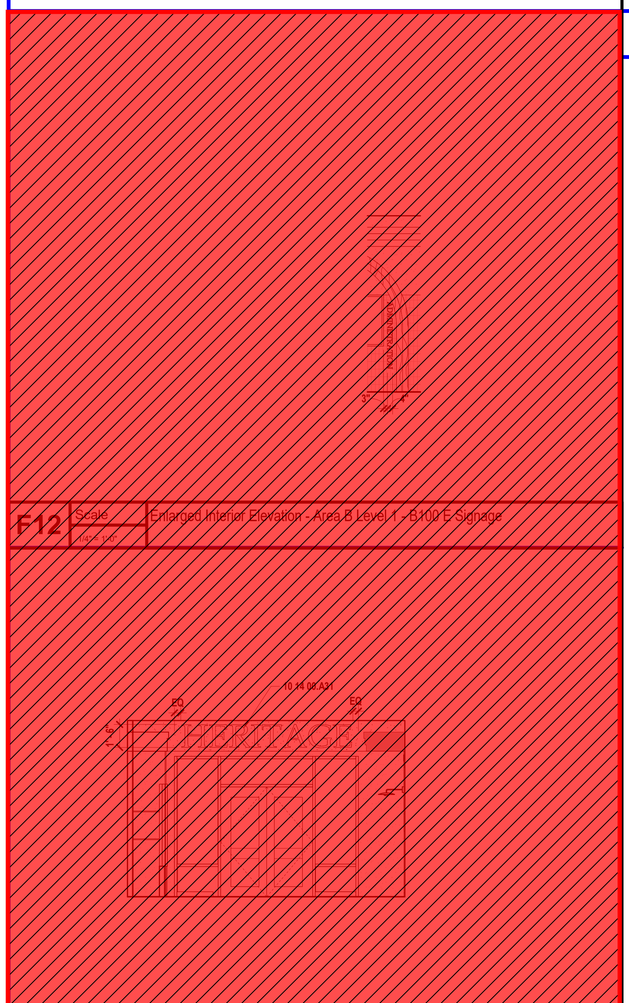
A1 Scale 3/32" = 1'-0" Code Signage Plan - Level 1 - Area B



F12 Scale 1/4"= 1'-0" Enlarged Interior Elevation - Area B Level 1 - B100 E Signage

A12 Scale 1/4"= 1'-0" Enlarged Interior Elevation - Area B Level 1 - B100 N Signage

SHEET KEYNOTE LEGEND

10 14 00.A31 CUSTOM

= Phase 2 Scope of Work
(Not included in this Bid Package)

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DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A701B

SIGNAGE +EGD FLOOR PLAN - AREA B - LEVEL 1

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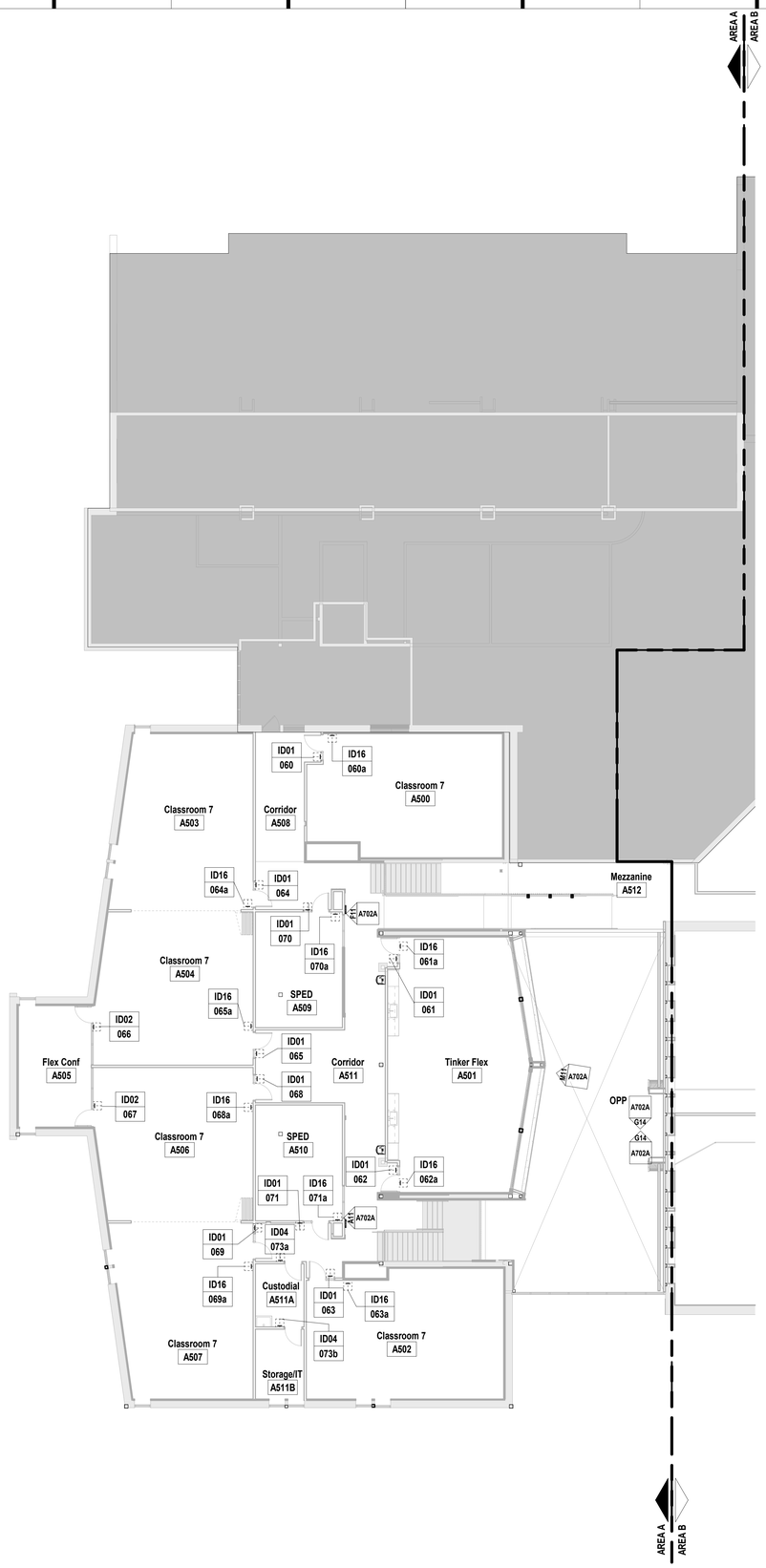
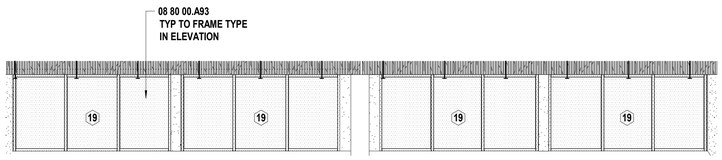
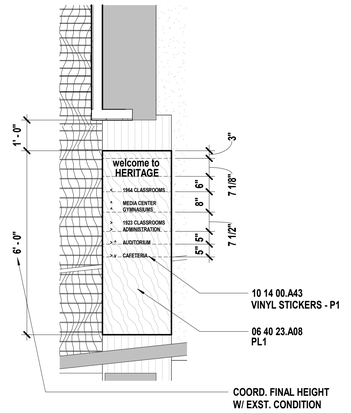


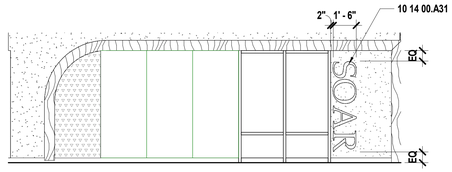
A1 | Scale 3/32" = 1'-0" | Code Signage Plan - Level 2 - Area A



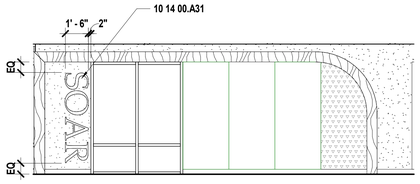
M11 | Scale 1/4" = 1'-0" | Graphics Elevation - Area A Commons - Glass Film



G14 | Scale 1/2" = 1'-0" | Graphics Elevation - Area A Commons - Column Wayfinding Panel



F11 | Scale 1/4" = 1'-0" | Graphics Elevation - Area A Corridor Level 2 - SPED A509 Signage



A11 | Scale 1/4" = 1'-0" | Graphics Elevation - Area A Corridor Level 2 - SPED A510 Signage

SHEET KEYNOTE LEGEND

06 40 23.A08	PLASTIC LAMINATE-CLAD PANELS
08 80 00.A93	GLAZING FILM
10 14 00.A31	CUSTOM
10 14 00.A43	SOLID COLOR VINYL

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REVISIONS:

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ARCHITECT

DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A702A

SIGNAGE + EGD FLOOR PLAN - AREA A - LEVEL 2

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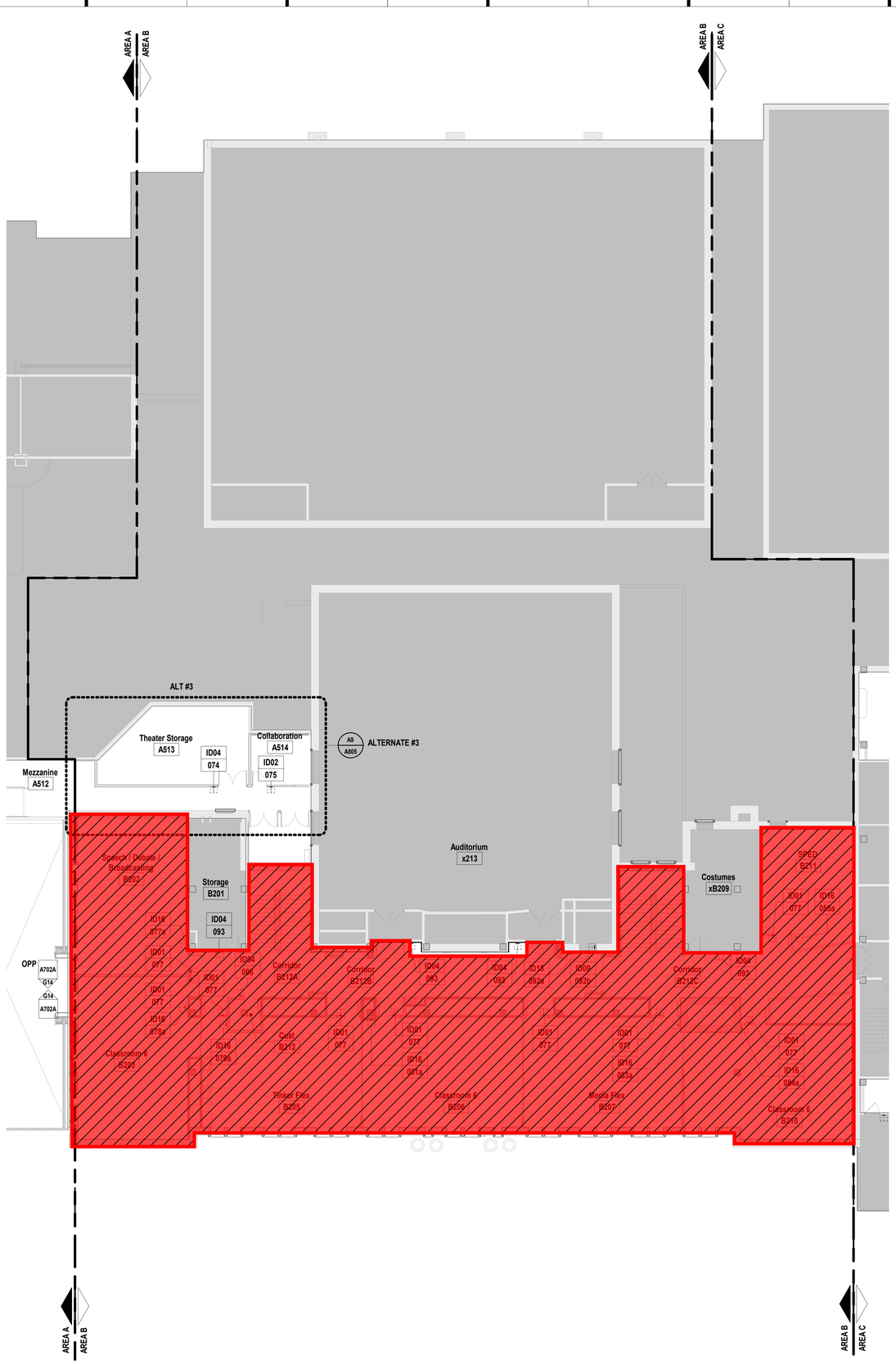

A1 | Scale 3/32" = 1'-0" | Code Signage Plan - Level 2 - Area B

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
(Not included in this Bid Package)

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A702B

SIGNAGE + EGD FLOOR PLAN - AREA B - LEVEL 2

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A1 | Scale 3/32" = 1'-0" | Code Signage Plan - Level 2 -Area C

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A702C

SIGNAGE + EDG FLOOR PLAN - AREA C - LEVEL 2

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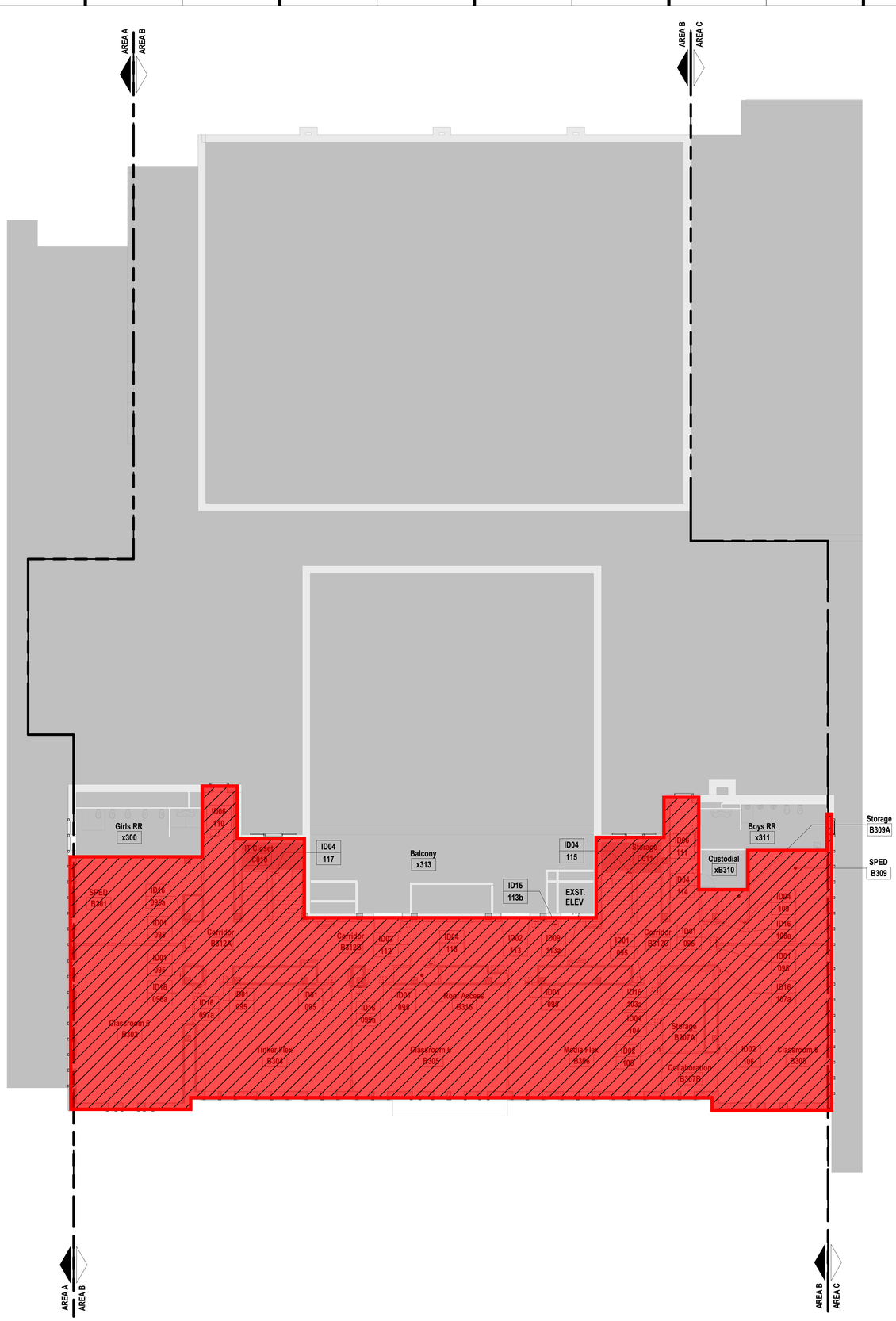

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- PRE-INSTALL COORDINATION MEETING IS MANDATORY.
- CONTRACTOR SHALL SUBMIT FULLY-DETAILED WORKING (SHOP) DRAWINGS OF ALL SIGNS AND GRAPHICS CONTAINED IN THIS PACKAGE TO THE ARCHITECT. DRAWINGS SHALL BE REVIEWED AND HAVE SIGNED APPROVAL PRIOR TO FABRICATION OR ORDERING OF MATERIALS. REFER TO PROJECT MANUAL.
- ALL SIGNS ARE TO BE FABRICATED FROM MATERIALS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY CLIENT AND ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER MOUNTING, FASTENING AND ANCHORING METHODS FOR ALL SIGNS UNLESS NOTED OTHERWISE. DETERMINATION TO ACCOUNT FOR SURFACE MATERIAL SIGN IS BEING MOUNTED TO. SEE ALSO SECTION 10 14 00 OF THE SPECIFICATIONS.
- DRAWINGS CONTAINED IN THIS PACKAGE ARE FOR AESTHETIC AND FUNCTIONAL DESIGN, ONLY. NO INSTRUCTIONS FOR STRUCTURAL APPROPRIATENESS HAVE BEEN MADE. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO ENSURE THAT ALL ELEMENTS ARE FABRICATED FOR A STABLE AND DURABLE INSTALLATION WHILE ADHERING TO THE AESTHETIC DETAILS INDICATED.
- ALL FASTENERS ARE TO BE CONCEALED UNLESS NOTED OTHERWISE. ANY VISIBLE FASTENERS TO BE COUNTER-SUNK AND PAINTED TO MATCH ADJACENT MATERIAL, UNLESS NOTED OTHERWISE.
- ALL TEXT SHOWN IS FOR REFERENCE ONLY, UNLESS NOTED OTHERWISE. SIGNAGE CONTRACTOR TO CONFIRM MESSAGE SCHEDULE WITH ARCHITECT FOR EXACT TEXT ON EACH SIGN.
- LAY OUT EACH SIGN MESSAGE FOR APPROVAL PER SPECIFICATION SECTION 10 14 23.
- ALL GRAPHICS SHOWN ARE PLACEHOLDER IMAGES.
- CONTRACTOR TO COORDINATE BLOCKING NEEDS WITH ARCHITECT AND CONSTRUCTION MANAGER.
- PROVIDE ACCESSIBLE PANELS TO ALL TRANSFORMERS. FINAL LOCATION OF TRANSFORMERS TO BE APPROVED BY ARCHITECT.
- FOR SIGNS WITH ILLUMINATION, ALLOW FOR 10 (TEN) FEET OF CABLE PER SIGN FOR CONNECTION TO ELECTRICAL JUNCTION BOX.
- PROVIDE APPROPRIATE CHEMICAL BOND BREAK BETWEEN ALL DISSIMILAR METALS (INCLUDING BETWEEN SIGN PARTS OR BETWEEN SIGNS AND MOUNTING SUBSTRATE).
- CONTRACTOR TO VERIFY ALL EXISTING FINISHES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PERFORMING ANY WORK.

= Phase 2 Scope of Work
(Not included in this Bid Package)

hollis + miller architects

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A703B

A1 Scale 3/32" = 1'-0"

Code Signage Plan - Level 3 - Area B

PROJECT NORTH TRUE NORTH

SIGNAGE + EGD FLOOR PLAN - AREA B - LEVEL 3

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Please consider the environment before printing this.

ADA & Code Signage Schedule - AREA A

Sign #	Sign Type	# On Sign	Message On Sign	# on Drawing	Name on Drawing	Mounting Surface/ Method	Comments
014	ID06		RESTROOM <MEN> <ACCESSIBLE>				
092b	ID09						
001	ID06		RESTROOM <ACCESSIBLE>	A001	Media Center RR		
026	ID01			A400	Classroom 8	GLASS BACKER	
026a	ID16			A400	Classroom 8		
027	ID01			A401	Flex	GLASS BACKER	
027a	ID16			A401	Flex	MOUNT ON DOOR	
028	ID01			A401	Flex	GLASS BACKER	
028a	ID16			A401	Flex	MOUNT ON DOOR	
029	ID01			A401	Flex		
030	ID01			A401	Flex		
031	ID01			A402	Classroom 8	GLASS BACKER	
031a	ID16			A402	Classroom 8		
032	ID01			A403	Classroom 8		
032a	ID16			A403	Classroom 8		
033	ID01			A404	Classroom 8		
033a	ID16			A404	Classroom 8		
034	ID02			A405	Flex Conf	GLASS BACKER	
035	ID02			A405	Flex Conf	GLASS BACKER	
036	ID01			A406	Classroom 8		
036a	ID16			A406	Classroom 8		
037	ID01			A407	Classroom 8		
037a	ID16			A407	Classroom 8		
038	ID01			A409	SPED		
038a	ID16			A409	SPED		
039	ID01			A410	SPED		
039a	ID16			A410	SPED		
040	ID13		MAXIMUM OCCUPANCY	A414	Commons		
041	ID03			A414	Commons		
041a	ID10			A414	Commons	GLASS BACKER	
060	ID01			A500	Classroom 7	GLASS BACKER	
060a	ID16			A500	Classroom 7		
061	ID01			A501	Tinker Flex	GLASS BACKER	
061a	ID16			A501	Tinker Flex	MOUNT ON DOOR	
062	ID01			A501	Tinker Flex	GLASS BACKER	
062a	ID16			A501	Tinker Flex	MOUNT ON DOOR	
063	ID01			A502	Classroom 7	GLASS BACKER	
063a	ID16			A502	Classroom 7		
064	ID01			A503	Classroom 7	GLASS BACKER	
064a	ID16			A503	Classroom 7		
076	ID02			A503	Classroom 7		
065	ID01			A504	Classroom 7	GLASS BACKER	
065a	ID16			A504	Classroom 7		
066	ID02			A505	Flex Conf	GLASS BACKER	
067	ID02			A505	Flex Conf	GLASS BACKER	
068	ID01			A506	Classroom 7	GLASS BACKER	
068a	ID16			A506	Classroom 7		
069	ID01			A507	Classroom 7		
069a	ID16			A507	Classroom 7		
070	ID01			A509	SPED	GLASS BACKER	
070a	ID16			A509	SPED		
071	ID01			A510	SPED		
071a	ID16			A510	SPED		
073a	ID04		STORAGE	A511A	Custodial		
073b	ID04		STORAGE	A511B	Storage/IT		
074	ID04			A513	Theater Storage		
075	ID02			A514	Collaboration	GLASS BACKER	

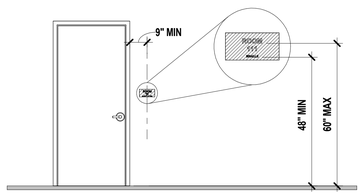
ADA & Code Signage Schedule - AREA B

Sign #	Sign Type	# On Sign	Message On Sign	# on Drawing	Name on Drawing	Mounting Surface/ Method	Comments
002	ID02			B000	Flex		
04	ID02			B001	Health Classroom A	GLASS BACKER	
05	ID02			B003	Health Classroom B	GLASS BACKER	
006	ID06		RESTROOM <WOMEN> <ACCESSIBLE>	B005	Girls RR		
007	ID06		RESTROOM <MEN> <ACCESSIBLE>	B007	Boys RR		
042	ID10		EXIT	B100	Entry	Duplicate sign	
43	ID04			B102	Hall of Fame	ALTERNATE #2	
	ID02			B103	Collaboration	ALTERNATE #2	
47	ID02			B103	Collaboration	GLASS BACKER	
	ID02			B105	Counseling Reception	ALTERNATE #2	
	ID02			B106	Counselor	ALTERNATE #2	
	ID02			B107	Counselor	MOUNT ON DOOR	ALTERNATE #2
	ID04			B108	Records	ALTERNATE #2	
	ID04			B109	Quiet Room	ALTERNATE #2	
	ID02			B110	Counselor	ALTERNATE #2	
	ID02			B111	Social Worker	ALTERNATE #2	
	ID02			B112	Break Room	ALTERNATE #2	
	ID04			B113	Sign Quiet / Flex	ALTERNATE #2	
	ID02			B114	Work Room	ALTERNATE #2	
	ID04			B115	Storage	ALTERNATE #2	
55	ID02			B116	Admin	GLASS BACKER	
	ID02			B117	Conference	GLASS BACKER	ALTERNATE #2
56	ID02			B117	Conference	GLASS BACKER	
	ID02			B118	Asst. Principal		
	ID02			B118	Asst. Principal		
	ID02			B120	Principal		ALTERNATE #2
	ID02			B121	Conference	MOUNT ON DOOR	ALTERNATE #2
	ID04			B122	Print / Stir		ALTERNATE #2
	ID04			B123	IT / Bldg		ALTERNATE #2
87	ID04			B157	Storage		ALTERNATE #2
90	ID04		STORAGE	B201	Storage		
27	ID01			B202	Speech / Debate / Broadcasting	GLASS BACKER	MOUNT ON DOOR?
27a	ID16			B202	Speech / Debate / Broadcasting		
77	ID01			B203	Classroom 6	GLASS BACKER	MOUNT ON DOOR?
77a	ID16			B203	Classroom 6		
77	ID01			B205	Tinker Flex	GLASS BACKER	
77	ID01			B205	Tinker Flex	GLASS BACKER	
77a	ID16			B205	Tinker Flex		
77	ID01			B206	Classroom 6	GLASS BACKER	
91a	ID16			B206	Classroom 6		
77	ID01			B207	Media Flex	GLASS BACKER	
77	ID01			B207	Media Flex	GLASS BACKER	
93a	ID16			B207	Media Flex		
77	ID01			B210	Classroom 6	GLASS BACKER	
94a	ID16			B210	Classroom 6		
77	ID01			B211	SPED	GLASS BACKER	
95a	ID16			B211	SPED		
96	ID04		CUSTODIAL	B212	Custodial		
92a	ID16			B212B	Corridor		
95	ID01			B301	SPED	GLASS BACKER	MOUNT ON DOOR?
95a	ID16			B301	SPED		
95	ID01			B302	Classroom 6	GLASS BACKER	MOUNT ON DOOR?
96a	ID16			B302	Classroom 6		
95	ID01			B304	Tinker Flex	GLASS BACKER	
95	ID01			B304	Tinker Flex	GLASS BACKER	
97a	ID16			B304	Tinker Flex		
95	ID01			B305	Classroom 6	GLASS BACKER	
99a	ID16			B305	Classroom 6		
95	ID01			B306	Media Flex	GLASS BACKER	
95	ID01			B306	Media Flex	GLASS BACKER	
93a	ID16			B306	Media Flex		
94	ID04		STORAGE	B307A	Storage		
95	ID02			B307B	Collaboration		
96	ID02			B307B	Collaboration		
95	ID01			B308	Classroom 6	GLASS BACKER	MOUNT ON DOOR?
97a	ID16			B308	Classroom 6		
95	ID01			B309	SPED	GLASS BACKER	MOUNT ON DOOR?
99a	ID16			B309	SPED		
99	ID04		STORAGE	B309A	Storage		
92a	ID09			B312B	Corridor		
92b	ID15			B312B	Corridor		
96	ID04			B316	Roof Access		

= Phase 2 Scope of Work
(Not included in this Bid Package)

ADA & Code Signage Schedule - AREA C

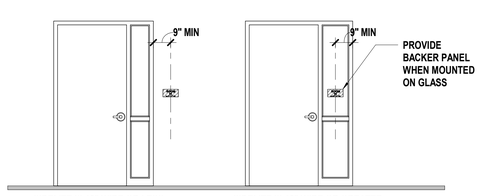
Sign #	Sign Type	# On Sign	Message On Sign	# on Drawing	Name on Drawing	Mounting Surface/ Method	Comments
008	ID04			C001	Cafeteria		
010c	ID10			C001	Cafeteria		
009	ID04			C002	Scramble		
010a	ID13		MAXIMUM OCCUPANCY	C002	Scramble		
011a	ID07			C004	Corridor		
009a	ID04			C008	Kitchen		
117	ID04			C010	IT Closet		
115	ID04			C011	Storage		
010b	ID13			C013	Seating		
013A	ID04			C013A	AV		
012	ID04		CUSTODIAL	C014	Custodial		
013	ID06		RESTROOM	C015	Staff RR		
014a	ID04		RESTROOM <MEN> <ACCESSIBLE>	C016a	Janitors Closet		
015a	ID04		RESTROOM <MEN> <ACCESSIBLE>	C016a	Janitors Closet		
015	ID06		RESTROOM <WOMEN> <ACCESSIBLE>	C017	Girls RR		
010d	ID10			C018	Corridor		
011	ID04			C018	Corridor		
011a	ID07			C018	Corridor		
016	ID06		RESTROOM	C019	Weights RR		
017	ID06		RESTROOM <MEN> <ACCESSIBLE>	C020	Boys RR		
018	ID06		RESTROOM <WOMEN> <ACCESSIBLE>	C022	Girls RR		
018	ID06		RESTROOM	C023	Coach's RR		
020	ID06		RESTROOM	C024	Coach's RR		
087	ID06		RESTROOM	C212a	Toilet		
088	ID06		RESTROOM <MEN> <ACCESSIBLE>	C240	Boys RR		
089	ID06		RESTROOM <WOMEN> <ACCESSIBLE>	C241	Girls RR		
021	ID15			x	Elev		
022	ID09		0	x	Elev		
046	ID15			x	Elev		
049	ID09		1	x	Elev		
051a	ID02			x	Corridor		
050	ID02			x102	Attendance Office	GLASS BACKER	
051	ID01			x103	ELL	GLASS BACKER	
052	ID02			x121	Drama		ALTERNATE #3
053	ID02			x130	Nurse		
	ID04			x155	Storage		ALTERNATE #2
	ID06			x156	Toilet		ALTERNATE #2
	ID06			x157	Toilet		ALTERNATE #2
093	ID04			x213	Auditorium		
093	ID04			x213	Auditorium		
110	ID06		RESTROOM <WOMEN> <ACCESSIBLE>	x300	Girls RR		
111	ID06		RESTROOM <MEN> <ACCESSIBLE>	x311	Boys RR		
112	ID02			x313	Balcony		
113	ID02			x313	Balcony		
058	ID06		RESTROOM <WOMEN> <ACCESSIBLE>	x400a	Girls RR		
059	ID06		RESTROOM <MEN> <ACCESSIBLE>	x402a	Boys RR		
093	ID04			xB209	Costumes		
114	ID04		CUSTODIAL	xB310	Custodial		



MOUNT ON LATCH SIDE OF DOOR

DIMENSIONS GO TO THE BOTTOM OF TACTILE COMMUNICATION ELEMENTS

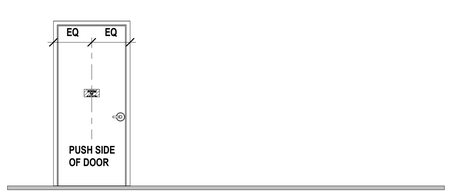
A1 Scale 1 : 1 — Typical ADA & Code Signage Elevation A - Standard Location



SIDELITE IS 12" WIDE OR LESS — SIDELITE IS 12" WIDE OR GREATER

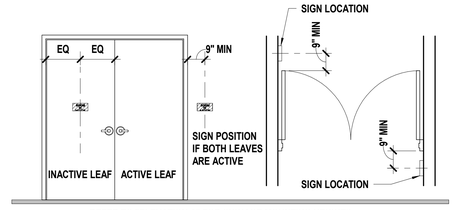
REFER TO "ELEVATION A" FOR SIGNAGE MOUNTING HEIGHTS

A5 Scale 1 : 1 — Typical ADA & Code Signage Elevation B - Sidelite



REFER TO "ELEVATION A" FOR SIGNAGE MOUNTING HEIGHTS

A10 Scale 1 : 1 — Typical ADA & Code Signage Elevation C - On the Door



REFER TO "ELEVATION A" FOR SIGNAGE MOUNTING HEIGHTS

A15 Scale 1 : 1 — Typical ADA & Code Signage Elevation D - Double Doors

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785.266.5696 phone

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI — KEVIN E. NELSON — A-2019015618 — ARCHITECT

DECEMBER 7, 2023

Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: MW
CHECKED BY: JB
DATE: 12.07.2023

A711

SIGNAGE & ENVIRONMENTAL GRAPHICS SCHEDULES

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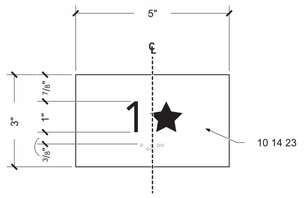
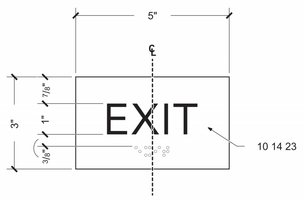
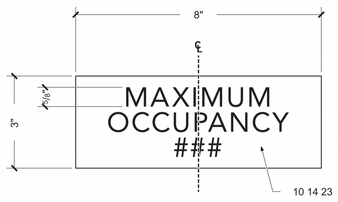


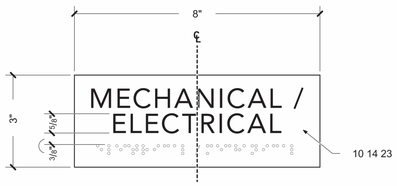
G1 | Scale 6" = 1'-0" | ID09 - Floor Level ID



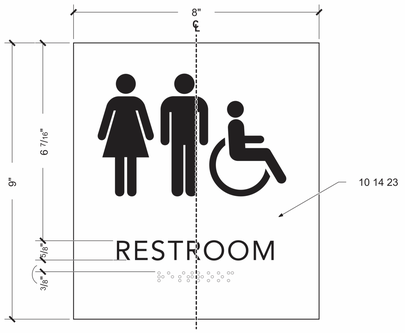
D1 | Scale 6" = 1'-0" | ID10 - Exit ID



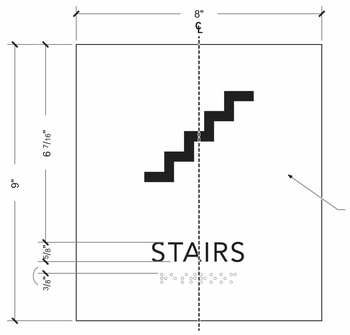
A1 | Scale 6" = 1'-0" | ID13 - Maximum Occupancy



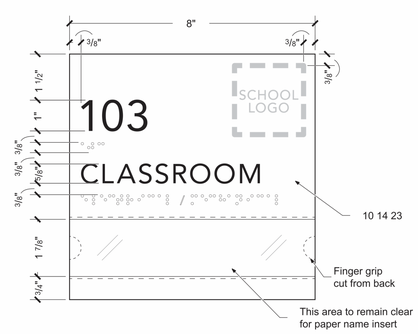
F4 | Scale 6" = 1'-0" | ID04 - Permanent Room ID - Name Only



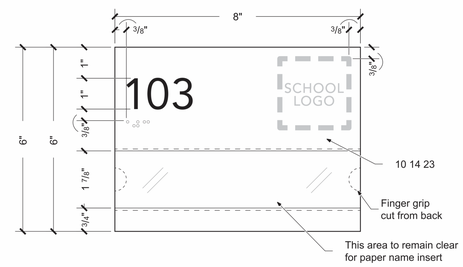
A4 | Scale 6" = 1'-0" | ID06 - Restroom ID



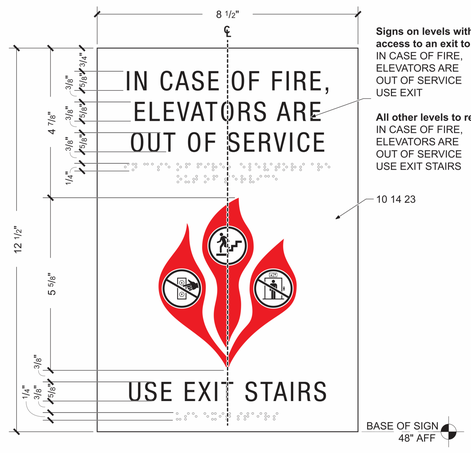
F8 | Scale 6" = 1'-0" | ID07 - Stair ID



A8 | Scale 6" = 1'-0" | ID01 - Permanent Room ID - Number, Name & Insert



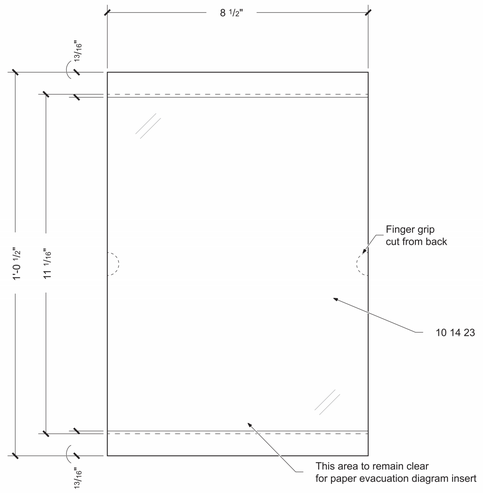
N13 | Scale 6" = 1'-0" | ID02 - Permanent Room ID - Number & Insert



Signs on levels with direct access to an exit to read:
IN CASE OF FIRE,
ELEVATORS ARE
OUT OF SERVICE
USE EXIT

All other levels to read:
IN CASE OF FIRE,
ELEVATORS ARE
OUT OF SERVICE
USE EXIT STAIRS

G12 | Scale 6" = 1'-0" | ID15 - Emergency Sign (In Case of Fire…)



A12 | Scale 6" = 1'-0" | ID16 - Evacuation Diagram Holder

SHEET KEYNOTE LEGEND

10 14 00.A## - NAME
- NOTE
- NOTE

ARTWORK TO BE SUPPLIED BY ARCHITECT

ALL DIMENSIONS AND MOUNTING CONDITIONS MUST BE VERIFIED IN THE FIELD PRIOR TO FINAL ARTWORK RELEASE

ALL ATTACHMENTS TO BE CONCEALED UNO. PROVIDE BLOCKING AS REQUIRED FOR SECURE ANCHORAGE. SEE ARCHITECTURAL WALL FOR CONSTRUCTION

PROJECT PICTOGRAMS


WOMEN/MEN


WOMEN


MEN


STAIRS


ACCESSIBLE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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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DRAWN BY: MW
CHECKED BY: JB
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A715

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A1 Scale 1/4" = 1'-0" Enlarged Plan - B000 Flex - Alternate #2

A10 Scale 1/8" = 1'-0" Enlarged Reflected Ceiling Plan - B000 Flex - Alternate #2

SHEET KEYNOTE LEGEND

09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS

= Phase 2 Scope of Work
(Not included in this Bid Package)

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. FINISH FLOOR PATTERNS TO BE CENTERED IN EACH ROOM UNO
3. CORNER GUARD LOCATIONS ARE INDICATED BY SYMBOL AND ARE TO BE FULL HEIGHT FROM TOP OF BASE
4. COORDINATE FLOORING INSTALLATION WITH CASEWORK TO ENSURE FLOORING EXTENDS UNDER CABINET TOE SPACES AND OPEN KNEE/APPLIANCE SPACES
5. ALL CLOSETS AND ALCOVES WITHOUT SEPARATE ROOM NUMBERS TO HAVE SAME FLOORING AND PATTERNS AS THE LARGER, IDENTIFIED ROOM
6. NOT ALL FLOORING MATERIALS SHOWN ON FINISH PLANS, REFER TO FINISH SCHEDULE FOR MATERIALS IN LOCATIONS NOT SHOWN
7. PATTERNS SHOWN THIS SHEET SHOULD REFLECT PATTERN OF MATERIAL MODULE
8. NON-ELEVATED WP PANELS IN CLASSROOMS TO BE MOUNTED AT 32" AFF TO BTM OF PANEL, UNO. IF NOT ELEVATED, REFER TO FINISH FLOOR PLANS FOR LOCATIONS OF WP PANELS ALONG WALLS. WP1 - 4'X8' & WP2 - 4'X4'
9. AREA A CLASSROOMS TO INCLUDE 4'X8' WP3 PANELS ON NON-TEACHING WALLS, UNO. REFER TO FINISH PLANS FOR LOCATIONS.
10. AREA B CLASSROOMS TO INCLUDE 4'X8' WP1 PANELS ON NON-TEACHING WALLS, UNO. REFER TO FINISH PLANS FOR LOCATIONS.
11. 7'H x 1" (U.N.O.) METAL CORNER GUARDS ON ALL OUTSIDE GYPSUM WALL CORNERS.
12. TERMINATE NEW P8 AT EDGE OF RR OPENING ALONG CORRIDOR A412 NORTH WALL.
13. AREA B CLASSROOMS: CORRIDOR FIELD PAINT (HP1) TO WRAP OUTSIDE CORNERS OF CLASSROOM ENTRY DOOR POCKETS AND TERMINATE AT INSIDE CORNER, UNO.

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ALTERNATE #2 - PLAN & RCP - LEVEL 0 - AREA B

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GENERAL DEMOLITION NOTES

1. DEMOLITION INCLUDES THE REMOVAL OF EXISTING CONSTRUCTION WHICH CONFLICTS WITH WORK TO BE BUILT/INSTALLED IN NEW CONSTRUCTION. TRANSITIONS BETWEEN DEMOLITION AND EXISTING TO REMAIN TO BE CAREFULLY COORDINATED.
2. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE DEMOLISHED/REMOVED.
3. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN.
4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION CONTRACTOR SHALL COORDINATE WITH THE GC/OH TO ENSURE ALL REQUIRED ITEMS ARE REMOVED IN ORDER FOR NEW WORK TO BE COMPLETED.
5. IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CEILINGS, FLOOR AND WALLS ARE TO BE REMOVED, INCLUDING BRACKETS, SCREWS, SIGNAGE, SURFACE MOUNTED ELECTRICAL AND TECHNOLOGY, REMOVE ALL WINDOW COVERINGS, MINI-BLINDS, ROLLER SHADES AND ALL BRACKETS.
6. THE OWNER WILL IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR DEMOLITION STARTING. CONTRACTOR SHALL SALVAGE AND TURN OVER TO THE OWNER ALL EQUIPMENT IDENTIFIED. ALL REMAINING ITEMS SHALL BE REMOVED BY THE DEMOLITION CONTRACTOR.
7. DO NOT DISTURB SOIL UNDER EXISTING FOOTINGS AND/OR FLOOR SLABS NOTED TO REMAIN.
8. COORDINATE THE REMOVAL OF ALL PORTIONS OF LOAD BEARING ELEMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO REMOVAL. PROVIDE TEMPORARY SHORING AS REQUIRED.
9. REFER TO MEP DEMOLITION SHEETS FOR EXISTING MECHANICAL, ELECTRICAL AND PLUMBING TO BE REMOVED.

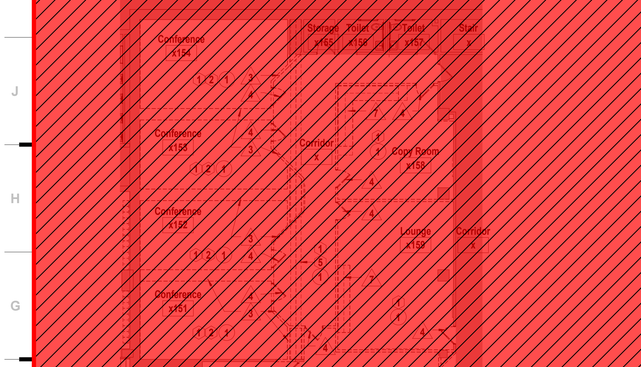
DEMOLITION NOTES

FLOORS & BASE

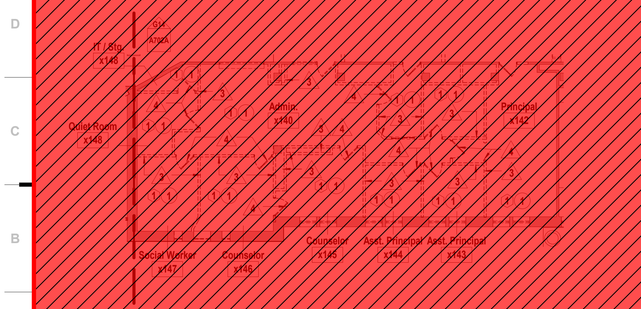
1. REMOVE EXISTING VINYL COMPOSITION TILE (VCT), RESILIENT FLOOR PRODUCTS, OR CARPET AND BASE (INCLUDING ADHESIVE).
2. REMOVE EXISTING CONCRETE SLAB/RAMP AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS.
3. REMOVE EXISTING RESILIENT FLOOR & BASE.
4. REMOVE EXISTING FLOOR DRAIN COVER. REF MEP DRAWINGS FOR COORDINATION.
5. REMOVE EXISTING CAST IN PLACE CONCRETE STAIRS.
6. REMOVE PORTION OF EXISTING STAIR. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION.
7. REFINISH EXISTING METAL PAN AT STAIR TREADS. REFER TO EXISTING PHOTOS ON SHEET D110.
8. REMOVE PORTION OF EXISTING ELEVATED SLAB/LANDING TO COORDINATE WITH NEW CONSTRUCTION.
9. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS.
10. REMOVE EXISTING QUARRY/CERAMIC/PORCELAIN TILE AND BASE INCLUDING ADHESIVE.

WALLS

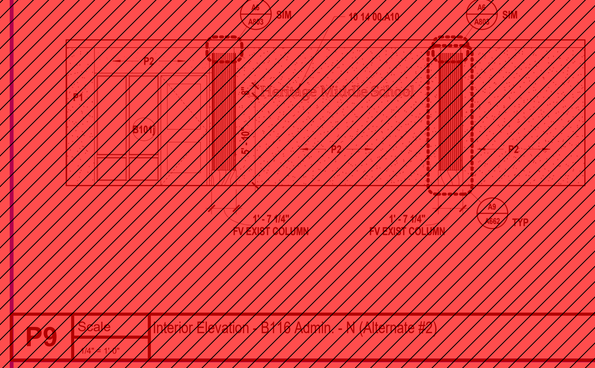
1. REMOVE EXISTING ALUMINUM OR HOLLOW METAL WINDOW SYSTEM, ROLLER SHADES/MINI BLINDS & ASSOCIATED BLOCKING AND BRACKETS.
2. REMOVE ALL/PORTION OF EXISTING CMU/BRICK/GLAZED BLOCK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
3. REMOVE ALL/PORTION OF EXISTING METAL STUD AND GYPSUM BOARD OR PLASTER WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
4. REMOVE EXISTING ALUMINUM OR HOLLOW METAL FRAME, DOOR AND ALL RELATED HARDWARE.
5. REMOVE ALL EXISTING LOCKERS AND CONCRETE BASE LEVEL & UP AS REQUIRED FOR NEW WORK.
6. REMOVE GYPSUM BOARD FROM EXISTING STUD WALL. CLEAN AND PREPARE FOR NEW GYPSUM BOARD. EXISTING STUDS TO REMAIN.
7. REMOVE EXISTING CASEWORK (COUNTERTOP, BASE CABINETS AND UPPER CABINETS) AND ALL PLUMBING FIXTURES. REFER TO MEP SHEETS FOR EXISTING PLUMBING AND ELECTRICAL CONDUIT TO BE CAPPED.
8. REMOVE EXISTING STUD FRAMED FLATFORM.
9. REMOVE EXISTING OVERHEAD/COILING DOOR AND ALL RELATED APPARATUS.
10. REMOVE EXISTING GUARDRAILS AND HANDRAILS FROM EXISTING STAIRS, LANDING, AND MEZZANINE.
11. REMOVE PORTION OF EXISTING CMU GLAZED BLOCK WALL AS REQUIRED FOR NEW PLUMBING.
12. REMOVE PLUMBING FIXTURES AND ASSOCIATED PARTITIONS. REMOVE EXISTING TOILET ACCESSORIES, MIRRORS ETC. UNLESS OTHERWISE NOTED. SALVAGE WALL MOUNTED SHELVES WITH HOOKS TO OWNER.
13. REMOVE EXISTING DOOR FROM FRAME & ALL RELATED HARDWARE. EXISTING FRAME TO REMAIN.
14. REMOVE EXISTING HANDRAILS. REFER TO EXISTING PHOTOS ON SHEET D110.
15. REMOVE EXISTING DISPLAY CASE. SALVAGE TO OWNER.
16. CAREFULLY REMOVE AND STORE EXISTING SHELVES FOR REINSTALLATION.
17. REMOVE EXISTING FIRE EXTINGUISHER AND ALL RELATED APPARATUS.
18. CAREFULLY REMOVE EXISTING MARKERBOARDS, PINBOARDS, TACKBOARDS, TACKABLE CLASSROOM PROJECTORS & SCREENS, AND CUSTODIAL STORAGE EQUIPMENT, INCLUDING ADHERIVE AND BRACKETS. SALVAGE TO OWNER.
19. REMOVE ALL/PORTION OF EXISTING EXTERIOR BRICK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
20. REMOVE ALL/PORTION OF EXISTING BRICK PILASTER. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS.
21. CAREFULLY REMOVE EXISTING EMERGENCY EQUIPMENT/EMERGENCY EVACUATION EQUIPMENT/FIRST AID KIT. SALVAGE FOR REINSTALLATION.



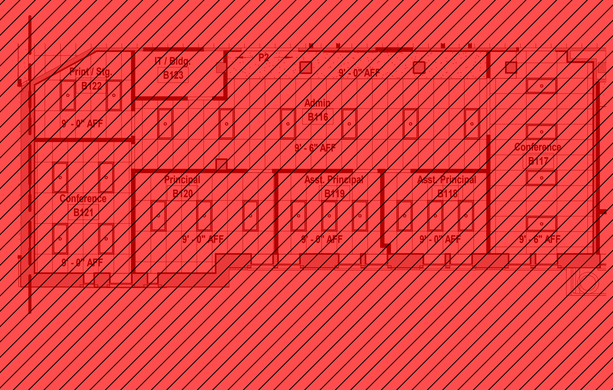
F2 Scale 1/8" = 1'-0" ALT. #2 Demolition Floor Plan - Level 1 - COUNSELING



A1 Scale 1/8" = 1'-0" ALT. #2 Demolition Floor Plan - Level 1 - ADMIN

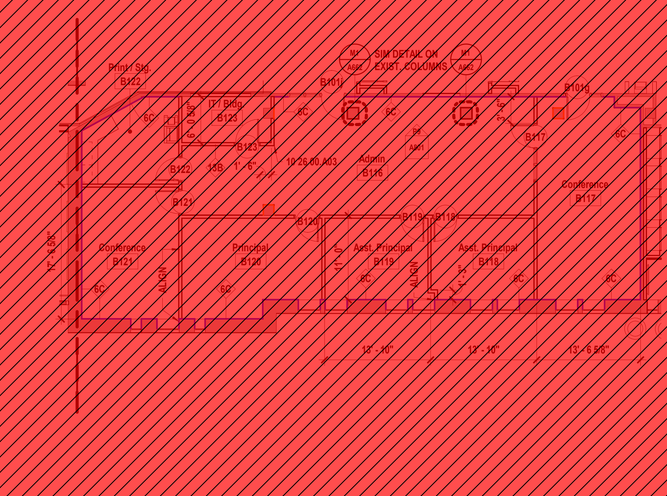


P9 Scale 1/2" = 1'-0" Interior Elevation - B116 Admin - N (Alternate #2)



G9 Scale 1/8" = 1'-0" ALT 2 - Reflected Ceiling Plan - Level 1 - Area B ADMIN

PROJECT NORTH TRUE NORTH



A9 Scale 1/8" = 1'-0" ALT. #2 Floor Plan - Level 1 - Area B - ADMIN

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

10 14 00.A10	NON-ILLUMINATED
10 26 00.A03	CORNER GUARDS

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL TYPE LEGEND

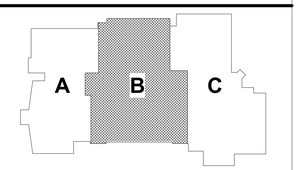
WALL TYPE 6C, REFER TO A001

WALL TYPE 6D, REFER TO A001

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. DO NOT SCALE THIS DRAWING
3. ALL INTERIOR WALLS ARE WALL TYPE 13B UNLESS NOTED OTHERWISE.
4. INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   A. TO FACE OF STUD
   B. TO FACE OF MASONRY UNIT
   C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
5. EXTERIOR DIMENSIONS ARE TO FACE OF MASONRY UNIT, UNLESS NOTED OTHERWISE.
6. COORDINATE LOCATIONS WHERE BACKING IS REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, WALL HUNG ACCESSORIES AND TECHNOLOGY
7. COORDINATE WALL REPAIR AND INSTALLATION OF NEW DOORS AND WINDOWS WITH DEMOLITION SHEETS
8. COORDINATE FINISHES TO REMAIN WITH DEMOLITION SHEET
9. ALL EXPOSED INTERIOR RED BRICK IN THE 64 ADDITION IS TO BE COVERED BY GYP LAMINATE
10. WHERER CJ ARE NOT CALLED OUT IN ELEVATION, CJ SHOULD EXTEND FROM DOOR HEADERS TYP, RE: SPECS

KEY PLAN



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ALTERNATE #2 - PLANS & RCP - LEVEL 1 - AREA B

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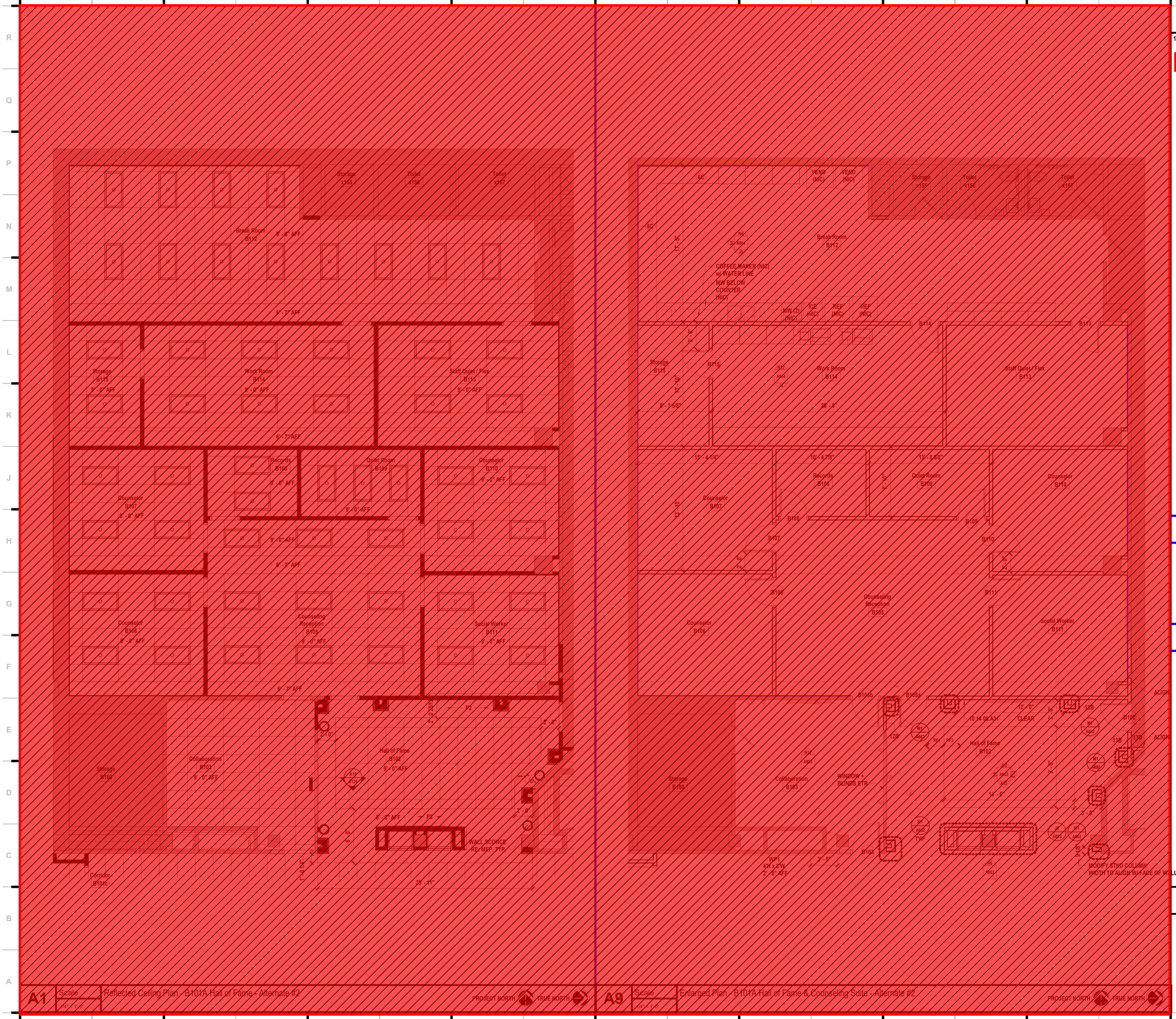

A1 Scale 1/4" = 1'-0" Reflected Ceiling Plan - B101A Hall of Fame - Alternate #2

A9 Scale 1/4" = 1'-0" Enlarged Plan - B101A Hall of Fame & Counseling Suite - Alternate #2

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

10 14 00.A31 CUSTOM

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL TYPE LEGEND

WALL TYPE 6C, REFER TO A001

WALL TYPE 6D, REFER TO A001

SHEET NOTES

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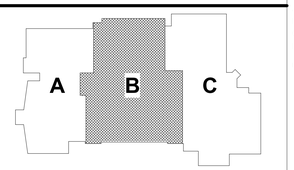
   C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
5. EXTERIOR DIMENSIONS ARE TO FACE OF MASONRY UNIT, UNLESS NOTED OTHERWISE.
6. COORDINATE LOCATIONS WHERE BACKING IS REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, WALL HUNG ACCESSORIES AND TECHNOLOGY
7. COORDINATE WALL REPAIR AND INSTALLATION OF NEW DOORS AND WINDOWS WITH DEMOLITION SHEETS
8. COORDINATE FINISHES TO REMAIN WITH DEMOLITION SHEET
9. ALL EXPOSED INTERIOR RED BRICK IN THE 64 ADDITION IS TO BE COVERED BY GYP LAMINATE
10. WHERER CJ ARE NOT CALLED OUT IN ELEVATION, CJ SHOULD EXTEND FROM DOOR HEADERS TYP, RE: SPECS

KEY PLAN



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ALTERNATE #2 - PLAN & RCP - LEVEL 1 - AREA B

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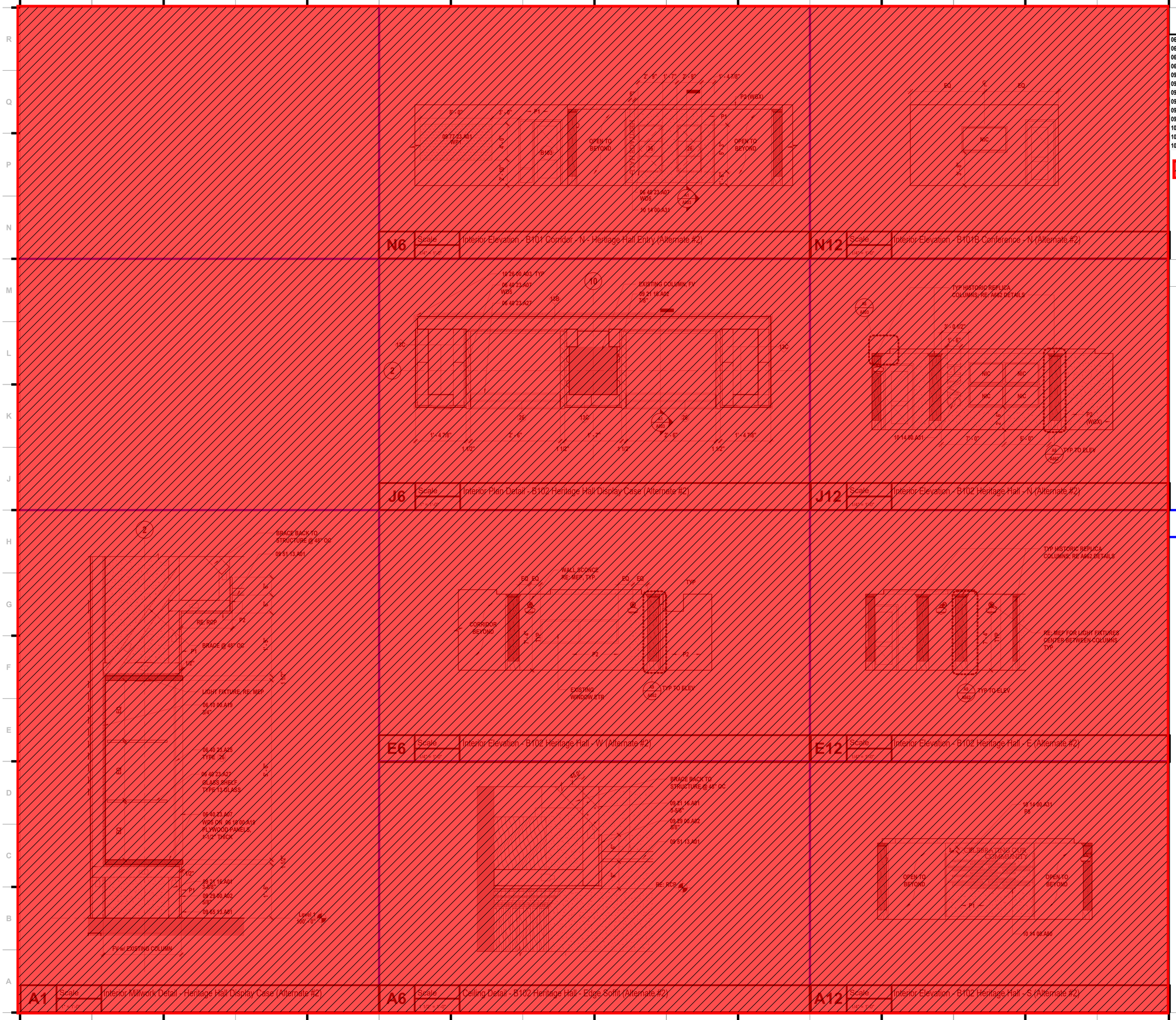

SHEET KEYNOTE LEGEND

06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 40 23.A07	VENEERED PANELS
06 40 23.A25	SWINGING DISPLAY CASE DOOR SYSTEM
06 40 23.A27	DISPLAY CASE SHELVING SYSTEM
09 21 16.A01	NON-STRUCTURAL FRAMING
09 21 16.A02	HAT-SHAPED RIGID FURRING CHANNELS
09 29 00.A02	GYPSUM BOARD - TYPE X
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 65 13.A01	RESILIENT BASE
09 77 23.A01	FABRIC-WRAPPED PANELS
10 14 00.A31	CUSTOM
10 14 00.A80	HANGING SYSTEM
10 26 00.A03	CORNER GUARDS

= Phase 2 Scope of Work
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WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
3. COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS
4. REFER TO MEP SHEETS FOR LOCATION DIAGRAM OF SWITCHES, THERMOSTATS, FIRE ALARM STROBES TO BE MOUNTED ADJACENT TO ENTRY DOORS OR AT OUTSIDE CORNERS WITHIN ROOMS
5. COORDINATE WITH ELECTRICAL SHEETS FOR HEIGHT OF OUTLETS A.F.F. AND/OR ABOVE COUNTERTOPS
6. COORDINATE WITH MECHANICAL SHEETS FOR LOCATIONS OF WALL MOUNTED GRILLES AND REGISTERS
7. ALL EXPOSED SURFACES TO RECEIVE PLASTIC LAMINATE
8. ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
9. PROVIDE 4" BACKSPLASH, UNO; ALIGN BACKSPLASH SEAMS WITH COUNTERTOP SEAMS.
10. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
11. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
12. ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
13. ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
14. ALL TALL STORAGE AND WARDROBE CABINETS ARE TO BE 24" DEEP, UNO
15. ALL CASEWORK TO HAVE LOCKS TYPICAL, KEY ALIKE PER ROOM
16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW
17. ALL EXPOSED EDGES AT CASEWORK TO RECEIVE PVC EDGEBANDING, UNO.
18. ALL BUILT-UP SOLID SURFACE EDGES TO HAVE SEAMLESS CORNERS.
19. 7'H x 2" (U.N.O.) METAL CORNER GUARDS ON ALL OUTSIDE GYPSUM WALL CORNERS.

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DATE: 12.07.2023

A803

ALTERNATE #2 - ELEVATIONS & DETAILS

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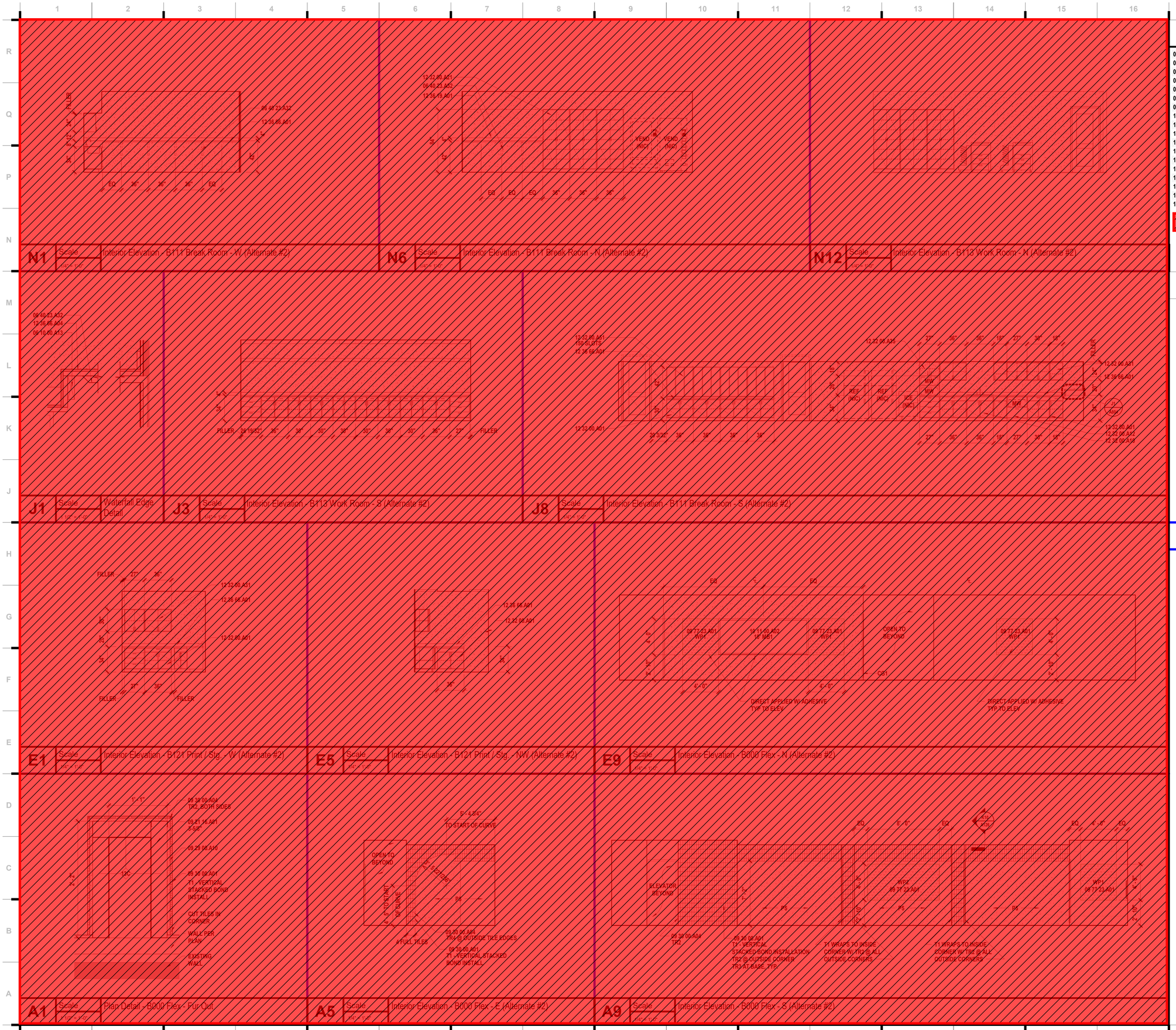

SHEET KEYNOTE LEGEND

06 10 00.A13	WOOD BLOCKING/NAILERS
06 40 23.A32	CONCEALED BRACKET
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A10	CEMENTITIOUS BACKER UNITS
09 30 00.A01	TILE
09 30 00.A04	METAL EDGE STRIPS
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
12 32 00.A01	BASE CABINET
12 32 00.A10	SINK BASE
12 32 00.A12	MICROWAVE BASE CABINET
12 32 00.A21	TALL CABINET
12 32 00.A31	WALL CABINET
12 32 00.A35	COMBO WALL CABINET
12 32 00.A51	PREMANUFACTURED MAIL SORTER TYPE 1
12 36 19.A01	WOOD COUNTERTOP
12 36 66.A01	SOLID SURFACE COUNTERTOP
12 36 66.A04	SOLID SURFACE PANEL

= Phase 2 Scope of Work
(Not included in this Bid Package)

WALL FINISH LEGEND

CJ	09 29 00.A12 CONTROL JOINT
	GRAIN DIRECTION
	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
	09 84 33.A01 ACOUSTICAL WALL PANEL, APX, RE: ELEVATIONS FOR TYPES
	09 84 36.A01 TECTUM
	WOOD GRAIN, REFER TO ELEVATIONS FOR GRAIN DIRECTION
	CUSTOM VINYL WALL GRAPHIC, WGX
CG1	10 26 00.A01 CORNER GUARD - TYPE 1
CG2	10 26 00.A01 CORNER GUARD - TYPE 2

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
3. COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS
4. REFER TO MEP SHEETS FOR LOCATION DIAGRAM OF SWITCHES, THERMOSTATS, FIRE ALARM STROBES TO BE MOUNTED ADJACENT TO ENTRY DOORS OR AT OUTSIDE CORNERS WITHIN ROOMS
5. COORDINATE WITH ELECTRICAL SHEETS FOR HEIGHT OF OUTLETS A.F.F. AND/OR ABOVE COUNTERTOPS
6. COORDINATE WITH MECHANICAL SHEETS FOR LOCATIONS OF WALL MOUNTED GRILLES AND REGISTERS
7. ALL EXPOSED SURFACES TO RECEIVE PLASTIC LAMINATE
8. ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
9. PROVIDE 4" BACKSPLASH, UNO; ALIGN BACKSPLASH SEAMS WITH COUNTERTOP SEAMS.
10. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
11. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
12. ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
13. ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
14. ALL TALL STORAGE AND WARDROBE CABINETS ARE TO BE 24" DEEP, UNO
15. ALL CASEWORK TO HAVE LOCKS TYPICAL, KEY ALIKE PER ROOM
16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW
17. ALL EXPOSED EDGES AT CASEWORK TO RECEIVE PVC EDGEBANDING, UNO.
18. ALL BUILT-UP SOLID SURFACE EDGES TO HAVE SEAMLESS CORNERS.
19. 7'H x 2" (U.N.O.) METAL CORNER GUARDS ON ALL OUTSIDE GYPSUM WALL CORNERS.

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913.345.0617 fax

mha Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: MD
CHECKED BY: JB
DATE: 12.07.2023

A804

ALTERNATE #2 - ELEVATIONS & DETAILS

12/8/2023 1:05:54 PM

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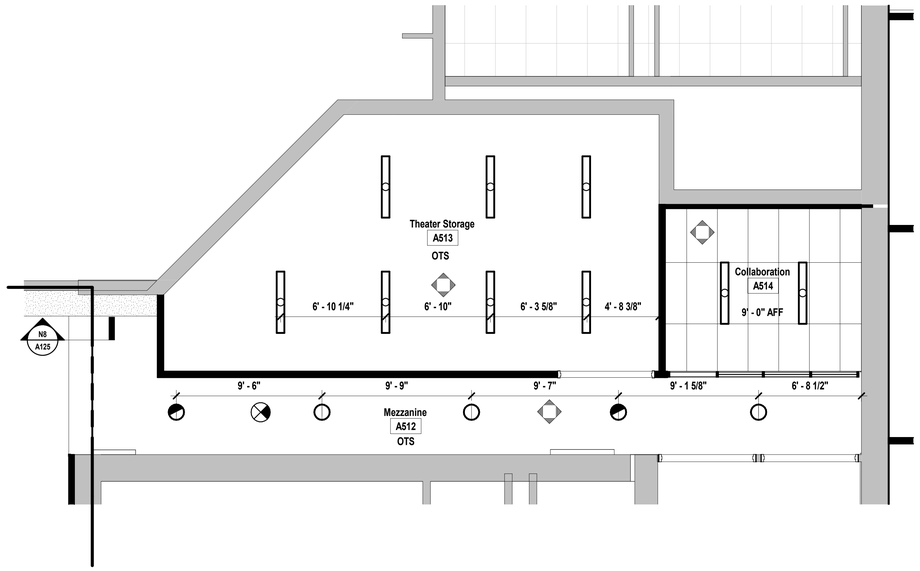
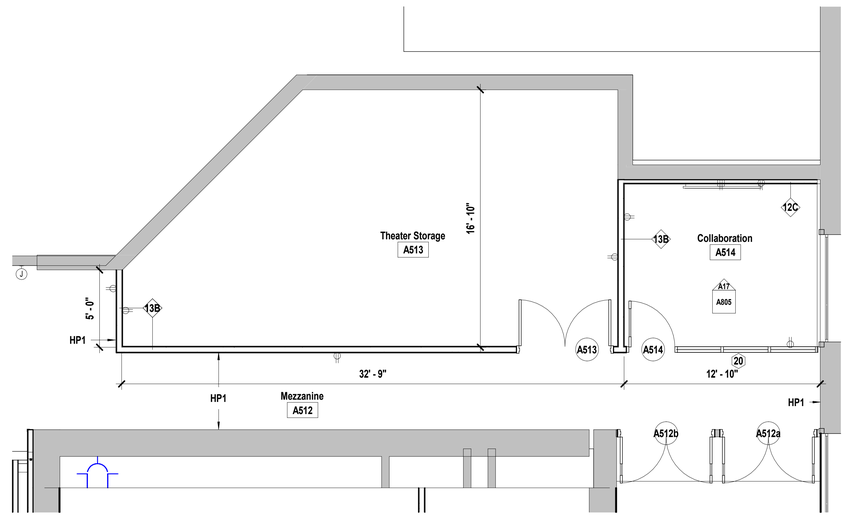
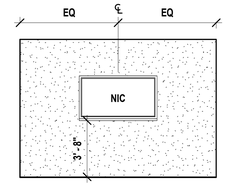
SHEET KEYNOTE LEGEND



H9 | Scale 1/4" = 1'-0" | Enlarged Ceiling Plan - A513 Theater Storage + A514 Collaboration - Alternate #3



A9 | Scale 1/4" = 1'-0" | Enlarged Plan - A513 Theater Storage + A514 Collaboration - Alternate #3



A17 | Scale 1/4" = 1'-0" | Interior Elevation - A514 Conf - N (Alt #3)

ALTERNATE #3 - A513 STORAGE + A514 COLLABORATION

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A805

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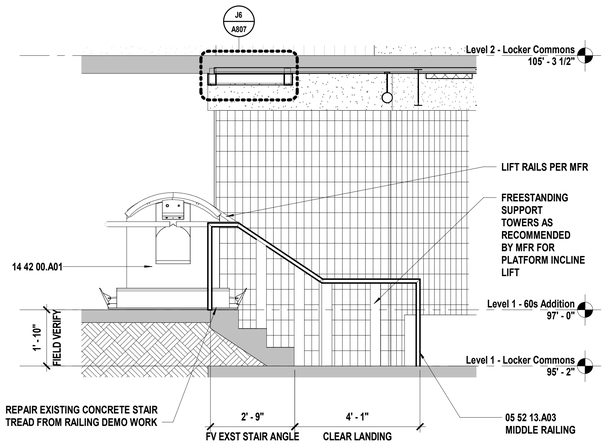
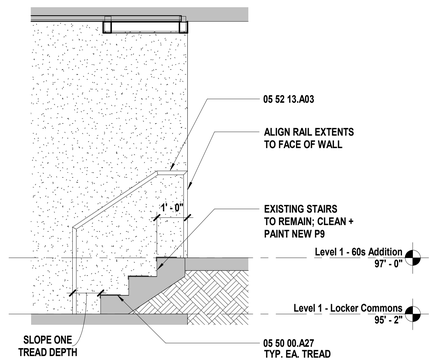
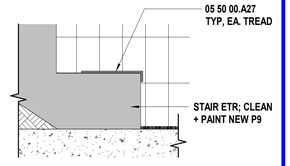


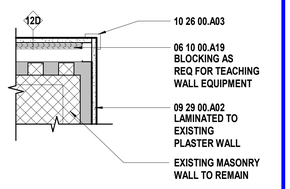
J1 | Scale 1/2" = 1'-0" | A413 Flex - Wheelchair Lift - Alternate #3



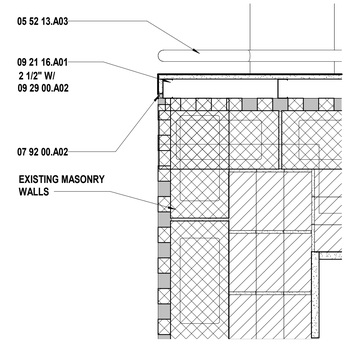
J6 | Scale 1/2" = 1'-0" | A413 Flex - Handrail - Alternate #3



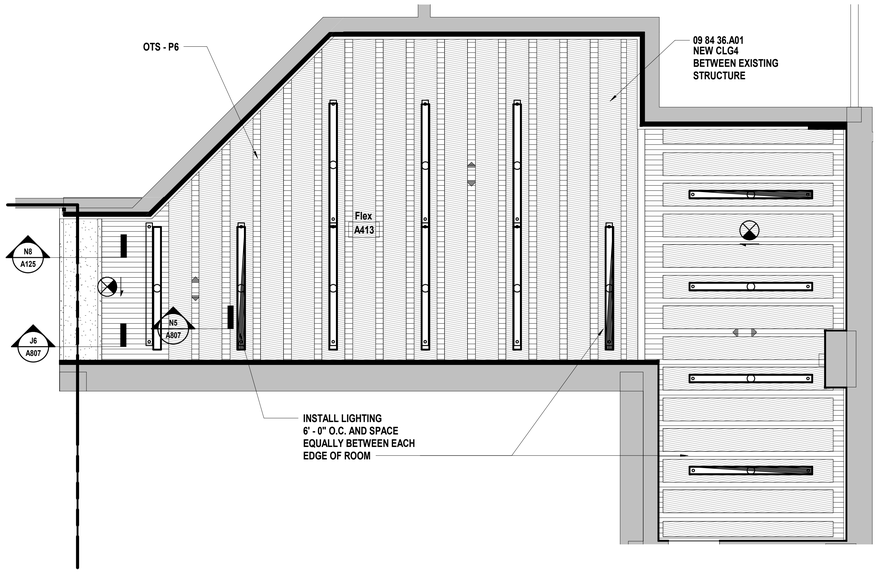
M10 | Scale 1 1/2" = 1'-0" | Vertical Circ - A413 Stair Tread/Riser



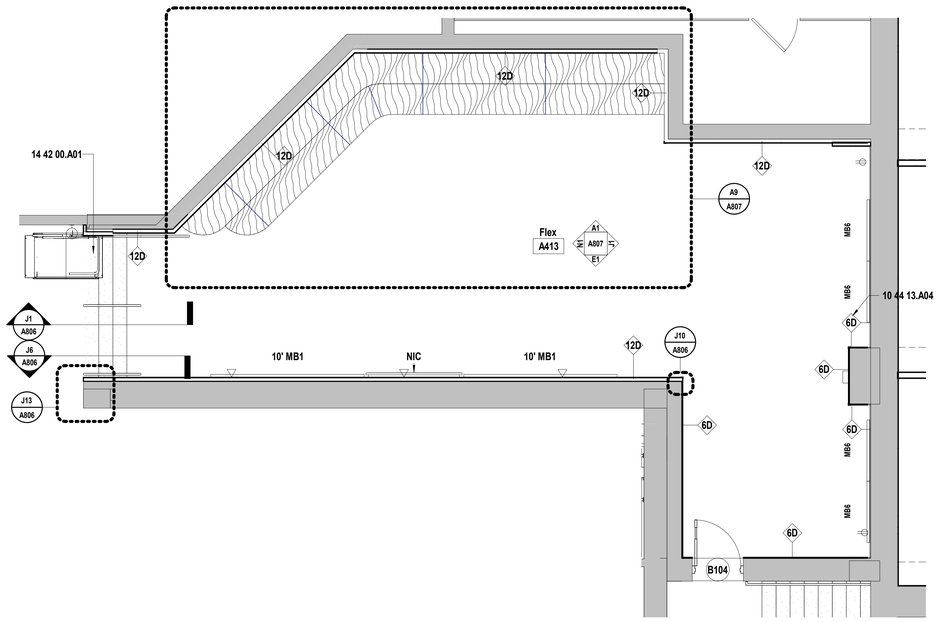
J10 | Scale 1 1/2" = 1'-0" | Int Plan Dtl - A413 Teaching Wall - E



J13 | Scale 1 1/2" = 1'-0" | Interior Plan Detail - A413 Flex - Teaching Wall - W



A1 | Scale 1/4" = 1'-0" | Reflected Ceiling Plan - A413 Flex - Alternate #3



A8 | Scale 1/4" = 1'-0" | Enlarged Plan - A413 Flex - Alternate #3

SHEET KEYNOTE LEGEND

05 50 00.A27	STAIR NOSING
05 52 13.A03	STAINLESS STEEL PIPE AND TUBE RAILINGS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
07 92 00.A02	SEALANT W/BACKER ROD
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 84 36.A01	SOUND-ABSORBING CEILING PANELS
10 26 00.A03	CORNER GUARDS
10 44 13.A04	SURFACE MOUNTED STEEL CABINET
14 42 00.A01	WHEELCHAIR LIFTS

WALL FINISH LEGEND

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	09 77 23.A01 FABRIC WRAPPED WALL PANEL, WPX, RE: ELEVATIONS & PLANS FOR TYPES
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JOB NO: 23024
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DATE: 12.07.2023

A806

ALTERNATE #3 - A413 FLEX

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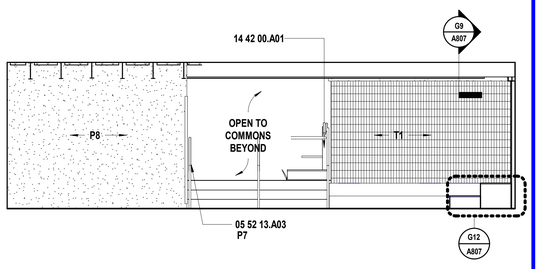
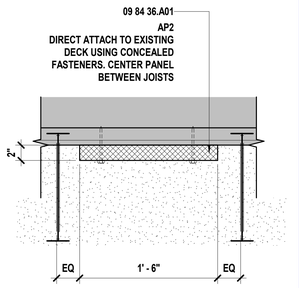
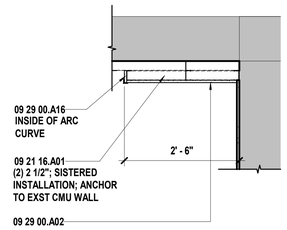


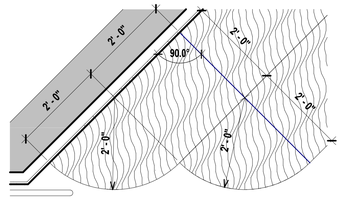
N1 | Scale 1/4" = 1'-0" | Interior Elevation - A413 Flex - W (Alt #3)



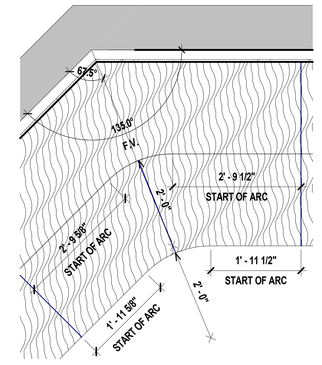
N5 | Scale 1 1/2" = 1'-0" | Ceiling Detail - A413 Flex - Tectum @ Deck



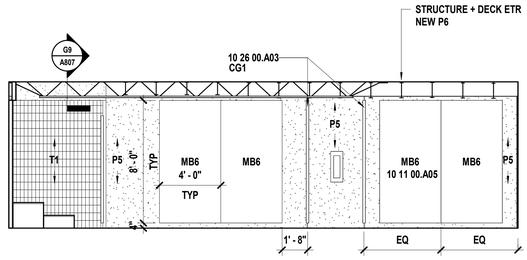
N8 | Scale 3/4" = 1'-0" | Interior Plan Detail - A413 Flex - Arched Soffit



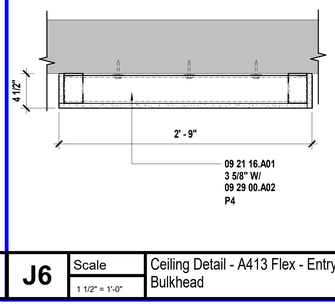
N11 | Scale 3/4" = 1'-0" | Interior Plan Detail - A413 Flex - Learning Stair - Outside Curve



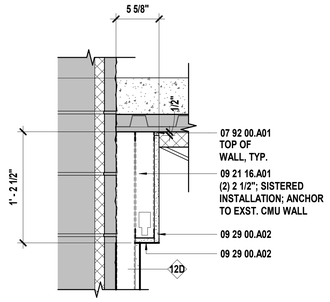
N14 | Scale 3/4" = 1'-0" | Interior Plan Detail - A413 Flex - Learning Stair - Interior Curve

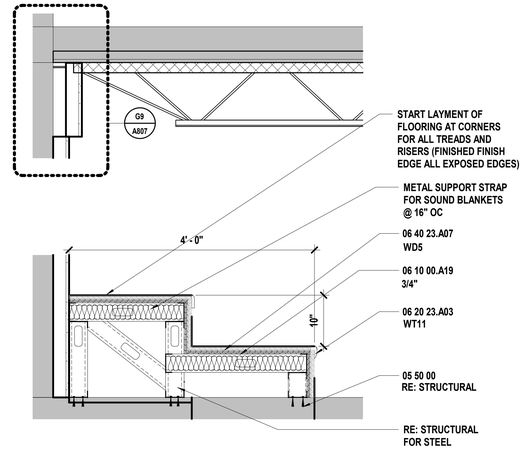


J1 | Scale 1/4" = 1'-0" | Interior Elevation - A413 Flex - E (Alt #3)

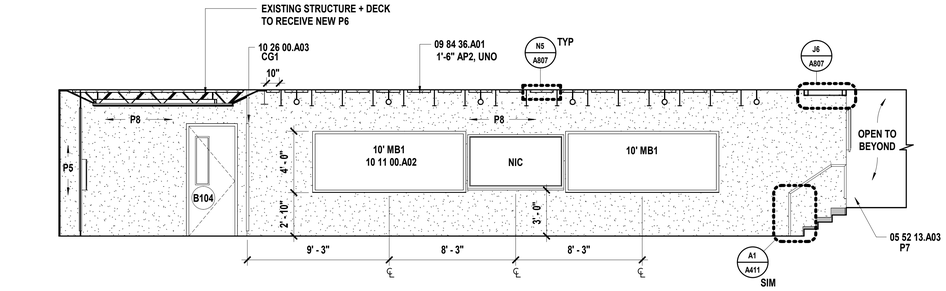


J6 | Scale 1 1/2" = 1'-0" | Ceiling Detail - A413 Flex - Entry Bulkhead

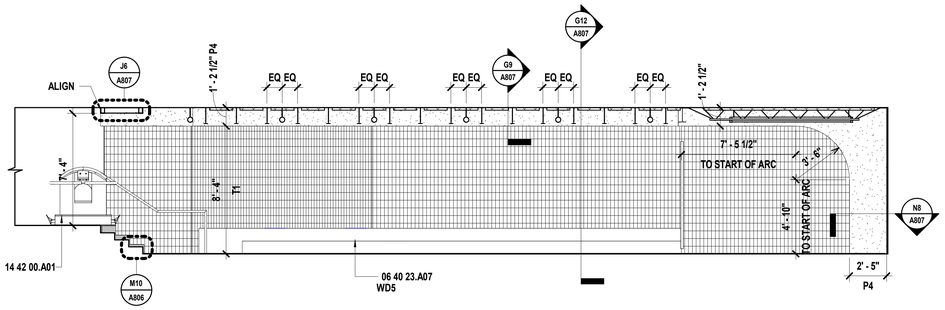




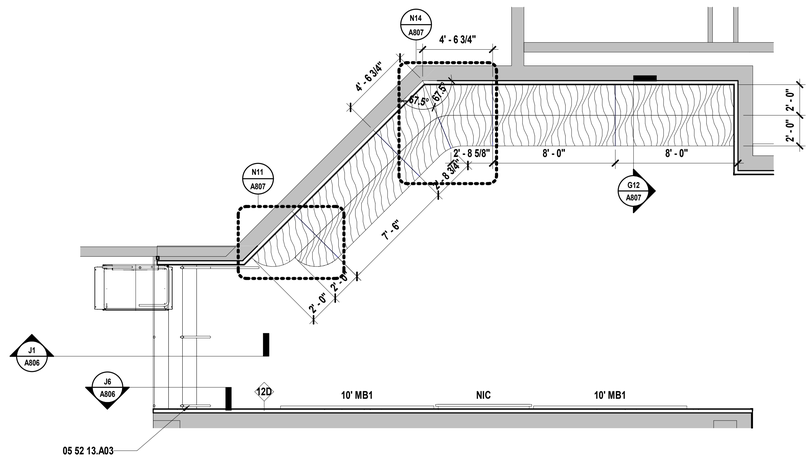
G12 | Scale 1" = 1'-0" | Interior Millwork Detail - Flex A413 - Learning Stair (Alternate)



E1 | Scale 1/4" = 1'-0" | Interior Elevation - A413 Flex - S (Alt #3)



A1 | Scale 1/4" = 1'-0" | Interior Elevation - A413 Flex - N (Alt #3)



A9 | Scale 1/4" = 1'-0" | Interior Plan Detail - Flex A413 - Learning Stair (Alternate)

SHEET KEYNOTE LEGEND

05 50 00	METAL FABRICATIONS
05 52 13.A03	STAINLESS STEEL PIPE AND TUBE RAILINGS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 20 23.A03	MOLDINGS - TRANSPARENT
06 40 23.A07	VENEERED PANELS
07 92 00.A01	SEALANT
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A16	FLEXIBLE GYPSUM BOARD
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10 11 00.A02	MARKERBOARDS
10 11 00.A05	VISUAL DISPLAY WALL PANELS
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8. ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
9. PROVIDE 4" BACKSPLASH, UNO; ALIGN BACKSPLASH SEAMS WITH COUNTERTOP SEAMS.
10. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
11. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
12. ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
13. ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
14. ALL TALL STORAGE AND WARDROBE CABINETS ARE TO BE 24" DEEP, UNO
15. ALL CASEWORK TO HAVE LOCKS TYPICAL, KEY ALIKE PER ROOM
16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW
17. ALL EXPOSED EDGES AT CASEWORK TO RECEIVE PVC EDGEBANDING, UNO.
18. ALL BUILT-UP SOLID SURFACE EDGES TO HAVE SEAMLESS CORNERS.
19. 7'H x 2" (U.N.O.) METAL CORNER GUARDS ON ALL OUTSIDE GYPSUM WALL CORNERS.

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mha Food Facility Consultants, LLC
Food Facility Planner
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785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

KEVIN E. NELSON
A-2009015618
ARCHITECT
STATE OF MISSOURI

DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: HL
CHECKED BY: JB
DATE: 12.07.2023

A807

ALTERNATE #3 - A413 FLEX

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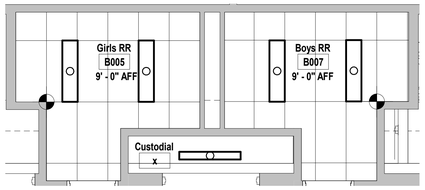
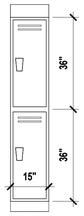


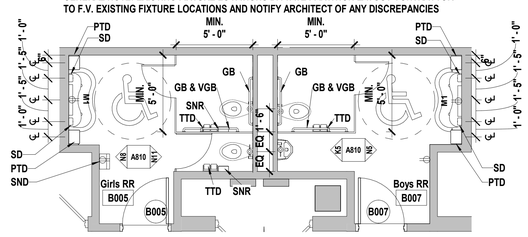
P1 | Scale 1/4" = 1'-0" | Reflected Ceiling Plan - B005 Girls RR and B007 Boys RR



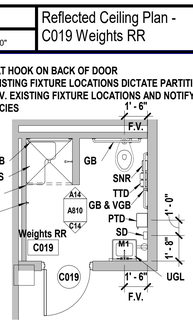
10 51 13.A01
TYPE A
(ON LEGS)
12" D

P6 | Scale 1/2" = 1'-0" | Lockers Types

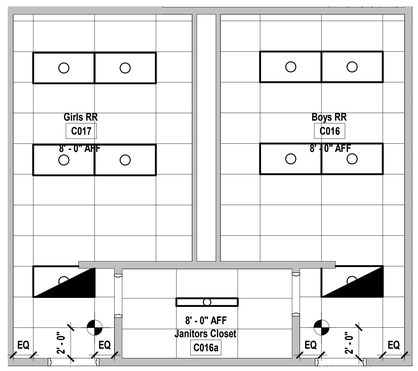
NOTE: INSTALL COAT HOOKS ON ALL PARTITION DOORS (TOILET SIDE).
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES



L1 | Scale 1/4" = 1'-0" | Enlarged Toilet Plan - B005 Girls RR & B007 Boys RR



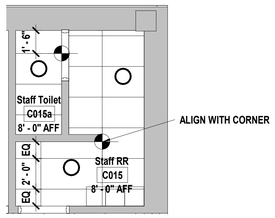
L6 | Scale 1/4" = 1'-0" | Reflected Ceiling Plan - C019 Weights RR



F1 | Scale 1/4" = 1'-0" | Reflected Ceiling Plan - C016 Boys RR + C017 Girls RR

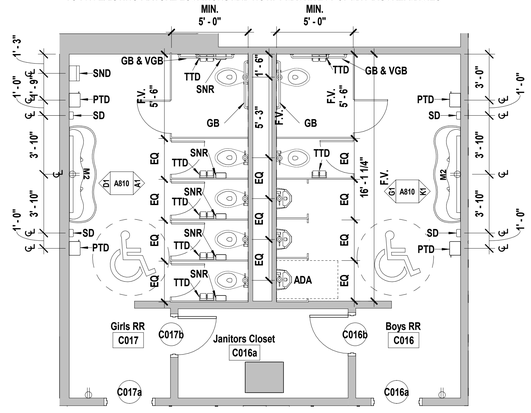
NOTE: INSTALL COAT HOOK ON BACK OF DOOR
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES

H6 | Scale 1/4" = 1'-0" | Enlarged Toilet Plan - C019 Weights RR



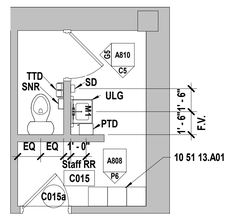
E6 | Scale 1/4" = 1'-0" | Reflected Ceiling Plan - C015 Staff RR

NOTE: INSTALL COAT HOOKS ON ALL PARTITION DOORS (TOILET SIDE).
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES



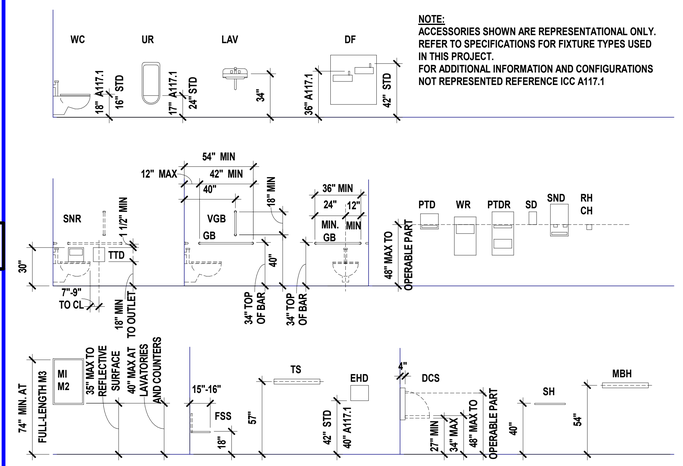
A1 | Scale 1/4" = 1'-0" | Enlarged Toilet Plan - C016 Boys RR & C017 Girls RR

NOTE: INSTALL COAT HOOK ON BACK OF DOOR
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES

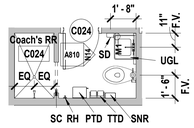


A6 | Scale 1/4" = 1'-0" | Enlarged Toilet Plan - C015 Staff RR

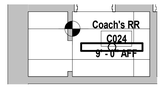
FIXTURE AND ACCESSORY MOUNTING HEIGHTS



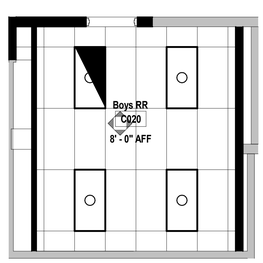
NOTE: INSTALL COAT HOOK ON BACK OF DOOR
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES



J9 | Scale 1/4" = 1'-0" | Enlarged Toilet Plan - C024 Coach's RR

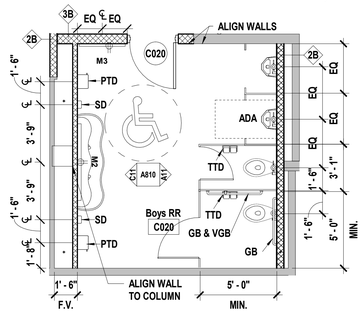


J13 | Scale 1/4" = 1'-0" | Reflected Ceiling Plan - C024 Coach's RR



E9 | Scale 1/4" = 1'-0" | Reflected Ceiling Plan - C020 Boys RR

NOTE: INSTALL COAT HOOKS ON ALL PARTITION DOORS (TOILET SIDE).



A9 | Scale 1/4" = 1'-0" | Enlarged Toilet Plan - C020 Boys RR

TOILET, BATH AND LAUNDRY ACCESSORY LEGEND

TAG	ACCESSORY	KEYNOTE	RESPONSIBILITY
TTD	TOILET TISSUE DISPENSER	10 28 00.A01	OFCI
PTD	PAPER TOWEL DISPENSER	10 28 00.A02	OFCI
~~WR~~	~~WASTE RECEPTACLE~~ NOT USED	~~10 28 00.A03~~	~~OFCI~~
~~PTDR~~	~~COMBINATION TOWEL DISPENSER / WAS~~ NOT USED ~~FACLE~~	~~10 28 00.A04~~	~~OFCI~~
SD	SOAP DISPENSER	10 28 00.A05	OFCI
GB	GRAB BARS	10 28 00.A06	CFCI
VGB	VERTICAL GRAB BAR	10 28 00.A06	CFCI
SND	SANITARY NAPKIN DISPENSER	10 28 00.A07	CFCI
SNR	SANITARY NAPKIN RECEPTOR	10 28 00.A08	CFCI
~~SOD~~	~~SEAT COVER DISPENSER~~ NOT USED	~~10 28 00.A09~~	~~OFCI~~
MI	MIRROR - SINGLE	10 28 00.A10	CFCI
M2	MIRROR - DOUBLE WIDTH	10 28 00.A10	CFCI
M3	MIRROR - FULL HEIGHT	10 28 00.A10	CFCI
SC	SHOWER CURTAIN	10 28 00.A11	CFCI
FSS	FOLDING SHOWER SEAT	10 28 00.A12	CFCI
~~SOD~~	~~SOAP DISH~~ NOT USED	~~10 28 00.A13~~	~~OFCI~~
RH	ROBE HOOK	10 28 00.A14	CFCI
CH	COAT HOOK	10 28 00.A15	CFCI
~~TO~~	~~TOWEL STRIP~~ NOT USED	~~10 28 00.A16~~	~~OFCI~~
~~SPT~~	~~SPECIMEN PASS THROUGH~~ NOT USED	~~10 28 00.A17~~	~~OFCI~~
~~SUC~~	~~BEDPAN AND URINAL CABINET~~ NOT USED	~~10 28 00.A18~~	~~OFCI~~
~~EHD~~	~~WARM AIR DRYER~~ NOT USED	~~10 28 00.A19~~	~~OFCI~~
~~DCS~~	~~DIAPER CHANGING STATION~~ NOT USED	~~10 28 00.A20~~	~~OFCI~~
ULG	UNDER-LAVATORY GUARD	10 28 00.A21	CFCI
SH	UTILITY SHELF	10 28 00.A22	CFCI
MBH	MOP AND BROOM HOLDER	10 28 00.A23	CFCI

NOTES: TAGS ABOVE WITH A "C" PREFIX (IE CGB) DENOTE CHILD MOUNTING HEIGHTS
CF = CONTRACTOR FURNISH
CI = CONTRACTOR INSTALL
OF = OWNER FURNISH
OI = OWNER INSTALL

SHEET KEYNOTE LEGEND

10 51 13.A01	KNOCKED-DOWN CORRIDOR LOCKERS

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. DO NOT SCALE THIS DRAWING
3. INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   A. TO FACE OF STUD
   B. TO FACE OF MASONRY UNIT
   C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
4. REFER TO INTERIOR ELEVATIONS, THIS SHEET, FOR PLACEMENT OF ALL WALL MOUNTED/RECESSED ITEMS
5. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR TOILET ACCESSORIES
6. ACT GRID CENTERED IN ROOM TYP, U.N.O REFER TO RCP FOR WORKPOINTS
7. RR SCOPE: NEW CEILINGS TO BE PUT BACK AT SAME HEIGHT AS TIME OF DEMO; COORDINATE WITH MEP DRAWINGS

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100% CONSTRUCTION DOCUMENTS

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Liberty Public Schools
600 W. Kansas Street
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REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: ARH
CHECKED BY: JB
DATE: 12.07.2023

A808

ALTERNATE #5 - ENLARGED TOILET PLANS & DETAILS

12/8/2023 1:06:19 PM

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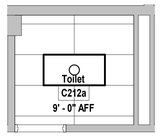
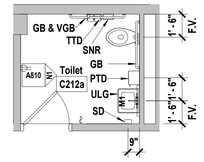


N11 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - C212a Toilet

NOTE: INSTALL COAT HOOKS ON BACK OF DOOR
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES



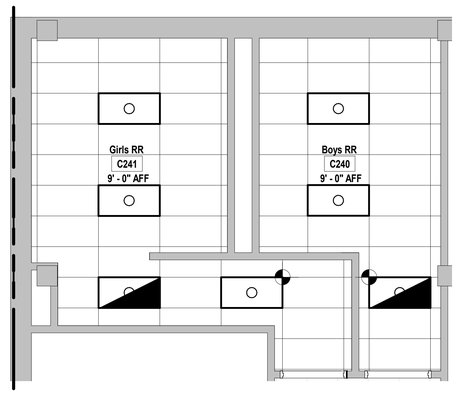
N14 Scale 1/4" = 1'-0" — Enlarged Toilet Plan - C212a Toilet

SHEET KEYNOTE LEGEND

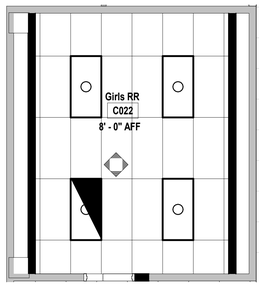
10 21 13.A01	TOILET COMPARTMENTS

SHEET NOTES

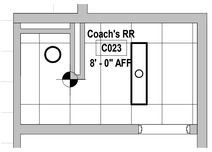
1. REFER TO SHEET G000 FOR SHEET INDEX
2. DO NOT SCALE THIS DRAWING
3. INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   A. TO FACE OF STUD
   B. TO FACE OF MASONRY UNIT
   C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
4. REFER TO INTERIOR ELEVATIONS, THIS SHEET, FOR PLACEMENT OF ALL WALL MOUNTED/RECESSED ITEMS
5. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR TOILET ACCESSORIES
6. ACT GRID CENTERED IN ROOM TYP, U.N.O REFER TO RCP FOR WORKPOINTS
7. RR SCOPE: NEW CEILINGS TO BE PUT BACK AT SAME HEIGHT AS TIME OF DEMO; COORDINATE WITH MEP DRAWINGS



G5 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - C240 Boys RR + C241 Girls RR

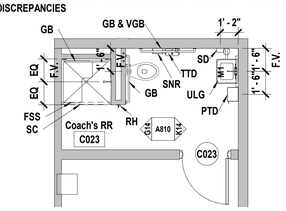


G10 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - C022 Girls RR



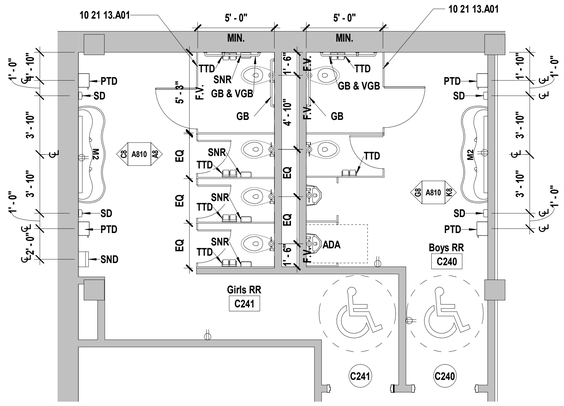
K14 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - C023 Coach's RR

NOTE: INSTALL COAT HOOKS ON BACK OF DOOR
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES



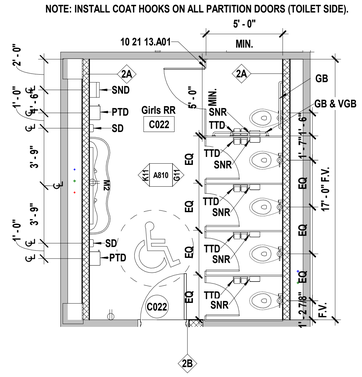
G14 Scale 1/4" = 1'-0" — Enlarged Toilet Plan - Level 0 - Coach's RR C023

NOTE: INSTALL COAT HOOKS ON ALL PARTITION DOORS (TOILET SIDE).
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V.
EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES

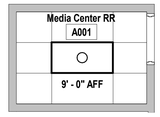


A5 Scale 1/4" = 1'-0" — Enlarged Toilet Plan - Level 2 - C241 & C240

NOTE: INSTALL COAT HOOKS ON ALL PARTITION DOORS (TOILET SIDE).

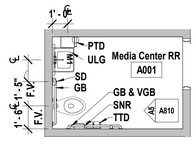


A10 Scale 1/4" = 1'-0" — Enlarged Toilet Plan - C022 Girls RR



D14 Scale 1/4" = 1'-0" — Reflected Ceiling Plan - A001 Media Center RR

NOTE: INSTALL COAT HOOKS ON BACK OF DOOR
GENERAL NOTE: EXISTING FIXTURE LOCATIONS DICTATE PARTITION LAYOUT CONTRACTOR TO F.V. EXISTING FIXTURE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES



A14 Scale 1/4" = 1'-0" — Enlarged Toilet Plan - A001 Media Center RR

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Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023

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JOB NO: 23024
DRAWN BY: ARH/HL
CHECKED BY: JB
DATE: 12.07.2023

A809

ALTERNATE #5 - ENLARGED TOILET PLANS & DETAILS

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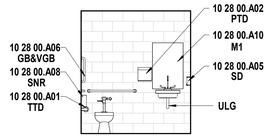
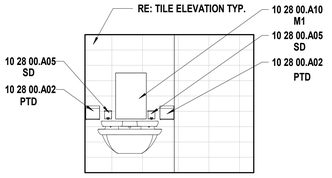
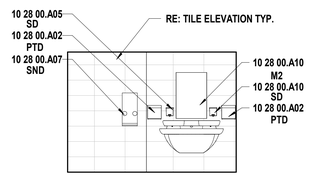


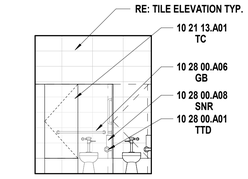
N1 | Scale 1/4" = 1'-0" | Interior Elevation RR C212a



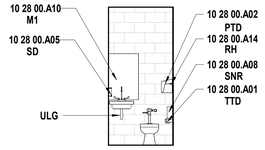
N5 | Scale 1/4" = 1'-0" | Interior Elevation RR B007 - Sink Wall



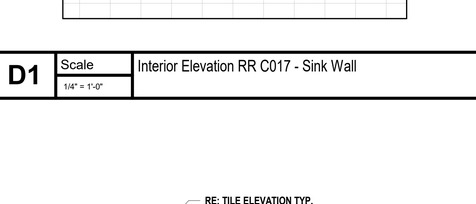
N8 | Scale 1/4" = 1'-0" | Interior Elevation RR B005 - Sink wall



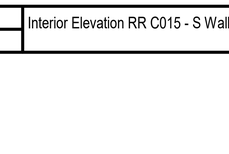
N11 | Scale 1/4" = 1'-0" | Interior Elevation RR B005 - Stall Wall



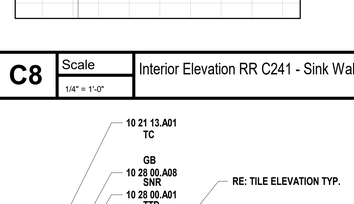
N14 | Scale 1/4" = 1'-0" | Interior Elevation RR C024



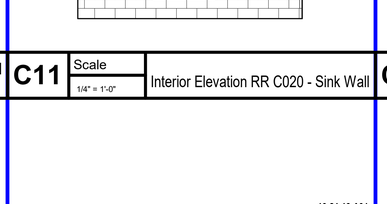
K1 | Scale 1/4" = 1'-0" | Interior Elevation RR C016 - Sink Wall



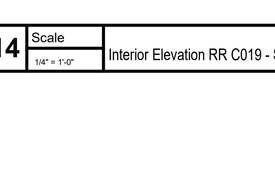
K5 | Scale 1/4" = 1'-0" | Interior Elevation RR - B007 Stall Wall



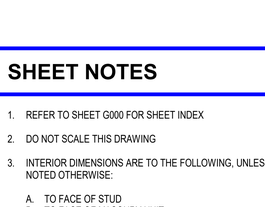
K8 | Scale 1/4" = 1'-0" | Interior Elevation RR C240 - Sink Wall



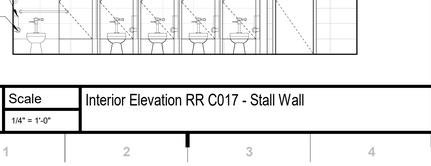
K11 | Scale 1/4" = 1'-0" | Interior Elevation RR C022 - Sink Wall



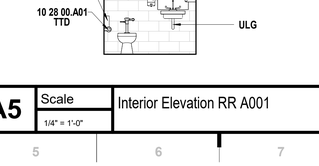
K14 | Scale 1/4" = 1'-0" | Interior Elevation RR C023 - Sink Wall



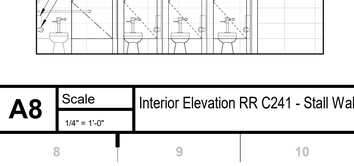
K17 | Scale 1/4" = 1'-0" | Tile Elevation - Typical



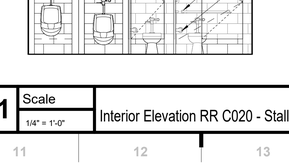
G1 | Scale 1/4" = 1'-0" | Interior Elevation RR C016 - Stall Wall



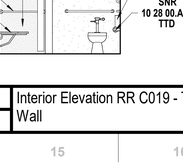
G5 | Scale 1/4" = 1'-0" | Interior Elevation RR C015 - W Wall



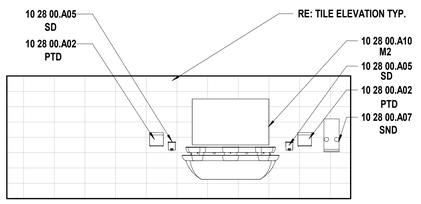
G8 | Scale 1/4" = 1'-0" | Interior Elevation RR C240 - Stall Wall



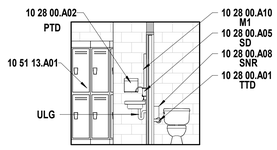
G11 | Scale 1/4" = 1'-0" | Interior Elevation RR C022 - Stall Wall



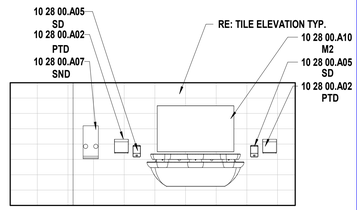
G14 | Scale 1/4" = 1'-0" | Interior Elevation RR C023 - Toilet Wall



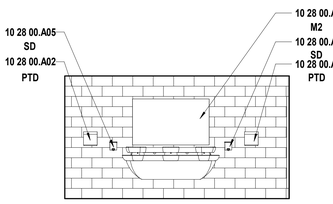
D1 | Scale 1/4" = 1'-0" | Interior Elevation RR C017 - Sink Wall



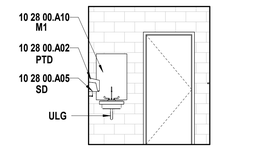
C5 | Scale 1/4" = 1'-0" | Interior Elevation RR C015 - S Wall



C8 | Scale 1/4" = 1'-0" | Interior Elevation RR C241 - Sink Wall



C11 | Scale 1/4" = 1'-0" | Interior Elevation RR C020 - Sink Wall



C14 | Scale 1/4" = 1'-0" | Interior Elevation RR C019 - Sink Wall

A1 | Scale 1/4" = 1'-0" | Interior Elevation RR C017 - Stall Wall

A5 | Scale 1/4" = 1'-0" | Interior Elevation RR A001

A8 | Scale 1/4" = 1'-0" | Interior Elevation RR C241 - Stall Wall

A11 | Scale 1/4" = 1'-0" | Interior Elevation RR C020 - Stall wall

A14 | Scale 1/4" = 1'-0" | Interior Elevation RR C019 - Toilet Wall

SHEET KEYNOTE LEGEND

10 21 13.A01	TOILET COMPARTMENTS
10 28 00.A01	TOILET TISSUE DISPENSER
10 28 00.A02	PAPER TOWEL DISPENSER
10 28 00.A05	SOAP DISPENSER
10 28 00.A06	GRAB BAR
10 28 00.A07	VENDOR/HYGIENE STATION
10 28 00.A08	SANITARY NAPKIN RECEPTOR UNIT
10 28 00.A10	MIRROR UNIT
10 28 00.A11	SHOWER CURTAIN
10 28 00.A12	FOLDING SHOWER SEAT
10 28 00.A14	ROBE HOOK
10 51 13.A01	KNOCKED-DOWN CORRIDOR LOCKERS

SHEET MATERIAL FINISH LEGEND

REFER TO ROOM FINISH SCHEDULE FOR TILE LOCATIONS

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. DO NOT SCALE THIS DRAWING
3. INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   A. TO FACE OF STUD
   B. TO FACE OF MASONRY UNIT
   C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
4. REFER TO INTERIOR ELEVATIONS, THIS SHEET, FOR PLACEMENT OF ALL WALL MOUNTED/RECESSED ITEMS
5. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR TOILET ACCESSORIES
6. ACT GRID CENTERED IN ROOM TYP, U.N.O REFER TO RCP FOR WORKPOINTS
7. RR SCOPE: NEW CEILINGS TO BE PUT BACK AT SAME HEIGHT AS TIME OF DEMO; COORDINATE WITH MEP DRAWINGS

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
DECEMBER 7, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23024
DRAWN BY: ARH
CHECKED BY: JB
DATE: 12.07.2023

A810

ALTERNATE #5 - RESTROOM ELEVATIONS

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GENERAL NOTES - STRUCTURAL

1. General Information

A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
C. All design and construction work for this project shall conform to the requirements of the following governing design codes:
   1. International Building Code (IBC 2018) as amended by the city of Liberty, MO.
   2. Minimum Design Loads for Buildings and Other Structures (ASCE7-16)
   3. Specification for Structural Steel Buildings (AISC 360-16) Member Design Basis is Allowable Stress Design (ASD) Connection Design Basis is Allowable Stress Design (ASD)
   4. Structural Welding Code (AWS D1.4/D1.4M - 2017)
   5. Building Code Requirements for Structural Concrete (ACI 318-14)
   6. Building Code Requirements for Masonry Structures (TMS 402-16)
   7. North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-16)
   8. National Design Specification (NDS) for Wood Construction with 2018 Supplements (ANSI/AWC NDS-2018)
   9. Special Design Provisions for Wind and Seismic (AWC SDPWS-2015)
D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

A. Floor Live = 50psf (An allowance of 15psf has been made for partitions as a uniformly distributed live load where the live load stated above is 80psf or less Floor Collateral Dead = 10psf
B. Roof Live = 20 psf; Roof Collateral Dead = 10psf
C. Snow: Pg = 20psf, Pf =14psf, Is = 1.0, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI 7
D. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code.

3. Concrete

A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
B. All concrete for interior flatwork (without floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
C. All concrete for interior flatwork (with floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
D. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
E. All concrete for columns shall develop a minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5 gallons of water per 100 pounds of cement and not over 4 inches of slump.
F. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
G. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
H. The use of fly ash is NOT permitted.
I. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
J. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed in the project soils report.
K. Basement foundation walls shall be braced at the base and top of wall by the contractor until the slab on grade at the base and the floor framing/slab at the top of wall is complete and the concrete has achieved 75% of the design strength. The contractor is responsible for engineering and design of the wall bracing, if required.
L. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
M. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
N. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
O. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
P. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
B. Clear coverage of concrete over reinforcing steel shall be as follows:

1. Concrete placed against earth:	3"
2. Formed concrete against earth:	2"
3. Slabs:	1"
4. Beams or Columns:	1-1/2"
5. Other	2"

All coverage shall be nominal bar diameter minimum.
C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
J. Allow _____ ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

5. Structural Steel

A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
B. All welding shall conform to the recommendations of the AWS.
C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized.
D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his/her seal.
E. All openings in existing steel joist roof to have 3x3x1/4 angle frame set between joists. Support mechanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist panel points.
F. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.

6. Post-installed Anchors

A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Concrete Masonry Units

A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2650 psi and laid up using type N mortar such that f'm equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and grouted solid.
B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the architectural drawings.
E. Concrete block shall be reinforced per schedule and/or details on the drawings. Where not otherwise noted, non-load-bearing interior partition walls shall be reinforced as follows in 6", 8", 10", and 12" walls:
   1. Vertical reinforcing shall be a minimum of 1 - #4 bar in 6" and 8" walls and 2 - #4 bars in 10" and 12" walls at 4'-0" on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters, 24" minimum.
   2. Horizontal reinforcing:
      A. Horizontal joint reinforcing as noted above.
      B. Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 40 bar diameters in each direction).
F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size.
G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not otherwise noted shall be one L 6x3 1/2x5/16 (LLV) for each 4" width of masonry. All exterior lintels shall be galvanized.
J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing(unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

8. Cold-Formed Metal Framing

A. All cold-formed structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the drawings, minimum.
B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.
F. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.

9. Shop Drawings and Deferred Submittals

A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred sub mittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
   1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
   2. Review and approve each submission.
   3. Stamp each submission as approved.
D. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.
F. Required shop drawings and related material (if any) are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
   1. Grout mix designs (for CMU).
   2. Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
   3. Miscellaneous anchors shown on the structural drawings.

10. Statement of Structural Special Inspections

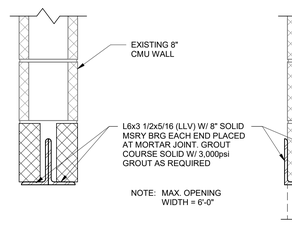
A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
   1. Shop Fabrication – structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop
   2. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI QA/QC.
   3. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI530/ASCE5 and TMS602/A530.1/ASCE6 [Level A] [Level B] [Level C]

11. Copyright and Disclaimer

A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
B. I, Wayne E. Davis, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

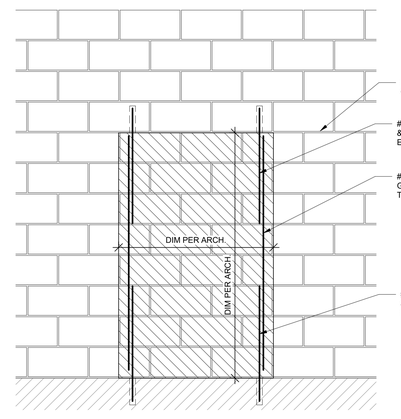
STRUCTURAL ABBREVIATIONS

@	AT	GA	GAGE	RAD	RADIUS
&	AND	GALV	GALVANIZE(D)	RD-#	ROOF DECK TYPE
Ø	ROUND, DIAMETER	GEN	GENERAL	REF	REFERENCE
ADTL	ADDITIONAL	GR	GRADE	REINF	REINFORCEMENT
AFF	ABOVE FINISHED FLOOR	HORIZ	HORIZONTAL	REQD	REQUIRED
ALT	ALTERNATE	HSS	HOLLOW STRUCTURAL SECTION	REV	REVISION
ARCH	ARCHITECTURAL	IF	INSIDE FACE	RLL	ROOF LIVE LOAD
BLDG	BUILDING	INFO	INFORMATION	RTU	ROOF TOP UNIT
BJ	BOTTOM OF	INT	INTERIOR	SC	SLIP CRITICAL
BM	BEAM	JST	JOIST	SCHED	SCHEDULE(D)
BOTT	BOTTOM	JT	JOINT	SECT	SECTION
BRG	BEARING	K	KIPS (1000 LBS)	SHT	SHEET
C	CAMBER	KSF	KIPS PER SQUARE FOOT	SIM	SIMILAR
CD-#	CONCRETE DECK TYPE	KSI	KIPS PER SQUARE INCH	SJ	SAW JOINT
CJ	CONSTRUCTION/CONTROL JOINT	LBS, #	POUNDS	SL	SNOW LOAD
CJP	COMPLETE JOINT PENETRATION	Ld	DEVELOPMENT LENGTH	SOG	SLAB-ON-GRADE
CL	CENTERLINE	LL	LIVE LOAD	SOG-#	SLAB-ON-GRADE TYPE
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZONTAL	SPCG	SPACING
COL	COLUMN	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION
CONC	CONCRETE	LONG	LONGITUDINAL	SPRT	SUPPORT
CONN	CONNECTION	LSLT	LONG-SLOTTED HOLE TRANSVERSE	SQ	SQUARE
CONT	CONTINUOUS	LTWT	LIGHTWEIGHT	SS	STAINLESS STEEL
COORD	COORDINATE	M	MOMENT FORCE	SSLT	SHORT-SLOTTED HOLE TRANSVERSE
COV, CVR	COVER	MAX	MAXIMUM	STD	STANDARD
DBL	DOUBLE	MECH	MECHANICAL	STIFF	STIFFENER
DET	DETAIL	MFGR	MANUFACTURER	STIR	STIRRUP
DIA	DIAMETER	MIN	MINIMUM	STL	STEEL
DIM	DIMENSION	MISC	MISCELLANEOUS	STRUCT	STRUCTURE, STRUCTURAL
DL	DEAD LOAD	MSRY	MASONRY	T/	TOP OF
DWG	DRAWING	MTL	METAL	THRU	THROUGH
EA	EACH	NF	NEAR FACE	TOS	TOP OF STEEL, TOP OF SLAB
EF	EACH FACE	NS	NEAR SIDE	TRANS	TRANSVERSE
EJ	EXPANSION JOINT	NTS	NOT TO SCALE	TYP	TYPICAL
EL, ELEV	ELEVATION	NW	NORMAL WEIGHT	UNO	UNLESS NOTED OTHERWISE
EMBED	EMBEDMENT, EMBEDDED	OC	ON CENTER	V	SHEAR FORCE
ENGR	ENGINEER	OF	OUTSIDE FACE	VERT	VERTICAL
EOD	EDGE OF DECK	OPNG	OPENING	W/	WITH
EOR	ENGINEER OF RECORD	OPP	OPPOSITE	W/0	WITHOUT
EOS	EDGE OF SLAB	OVS	OVERSIZED HOLE	WF	WIDE FLANGE
EQ	EQUAL	P	AXIAL FORCE	WL	WIND LOAD
EQUIP	EQUIPMENT	PAF	POWDER ACTUATED FASTENER	WP	WORK POINT
EW	EACH WAY	PC	PRECAST	WWF	WELDED WIRE FABRIC
EXP	EXPANSION	PCF	POUNDS PER CUBIC FOOT		
EXT	EXTERIOR	PEMB	PRE-ENGINEERED METAL BUILDING		
EXTG, EXIST	EXISTING	PERP	PERPENDICULAR		
FD-#	FLOOR DECK TYPE	PL	PLATE		
FDN	FOUNDATION	PLF	POUNDS PER LINEAR FOOT		
FF	FAR FACE	PJP	PARTIAL JOINT PENETRATION		
FIN	FINISH	PSF	POUNDS PER SQUARE FOOT		
FLR	FLOOR	PSI	POUNDS PER SQUARE INCH		
FS	FAR SIDE	QTY	QUANTITY		
FTG	FOOTING				
FV	FIELD VERIFY				

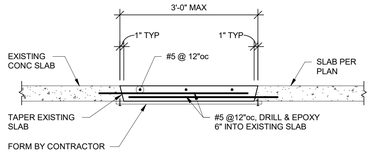


BELOW CEILING ABOVE CEILING

1 TYPICAL CMU WALL OPENING LINTEL DETAIL
1 1/2" = 1'-0"

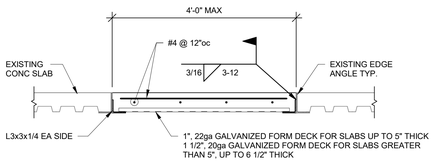


2 INFILL OF EXISTING OPENING IN MASONRY WALL
3/4" = 1'-0"



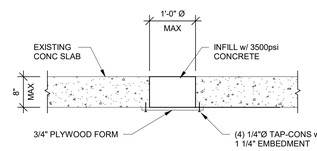
TYPICAL CAST-IN-PLACE SLAB INFILL DETAIL

5 SECTION
3/4" = 1'-0"



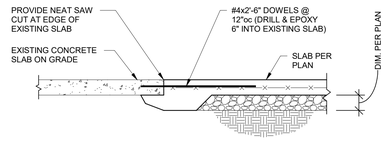
TYPICAL SLAB ON METAL DECK INFILL DETAIL

6 SECTION
3/4" = 1'-0"



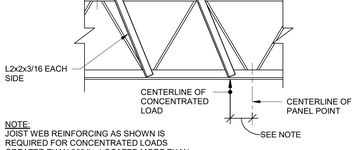
TYPICAL CORE HOLE INFILL DETAIL

7 SECTION
3/4" = 1'-0"



TYPICAL AT NEW-TO-EXISTING SLAB ON GRADE

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



NOTE:
JOIST WEB REINFORCING AS SHOWN IS REQUIRED FOR CONCENTRATED LOADS GREATER THAN 300 lbs LOCATED MORE THAN 3" FROM PANEL POINT CENTERLINE

TYPICAL JOIST REINFORCING DETAIL

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

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State Certificate of Authority #EGC-0001787
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Olathe, KS 66061
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913.345.0617 fax

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Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
WAYNE E. DAVIS
NUMBER PE-2010032244
PROFESSIONAL ENGINEER
12-7-23

The Professional Architects seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

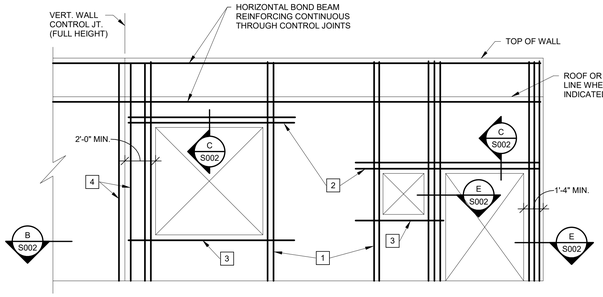
JOB NO: 23024
DRAWN BY: KEJ
CHECKED BY: WED
DATE: 12.07.2023

S001

GENERAL NOTES & DETIALS

Please consider the environment before printing this.

12/7/2023 11:11:41 AM



TYPICAL CMU WALL REINFORCING AT OPENINGS

LEGEND:

1. FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).
2. LINTEL REINFORCING PER SECTION C. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
3. 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
4. FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

GENERAL CRITERIA: (SECTION A CONTINUED):

1. VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
2. CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
3. VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

MASONRY VERTICAL REINFORCING SCHEDULE
FOR LOAD BEARING MASONRY (CMU) WALLS

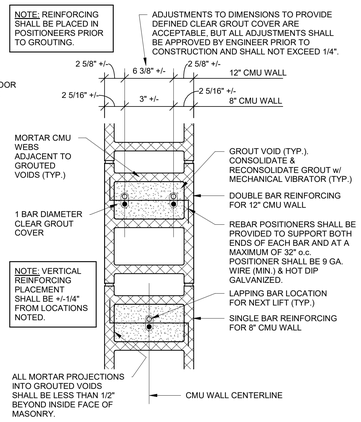
WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUTED CELLS)	SPACING
8"	ALL 8" WALLS (U.N.O.)	1- #5	32"oc
12"	ALL 12" WALLS (U.N.O.)	2- #5	16"oc

NOTES:
1. IN ADDITION TO SPACING SHOWN IN SCHEDULE, VERTICAL REINFORCING SHALL BE PROVIDED IN GROUTED CELLS AT THE FOLLOWING LOCATIONS
   - A.) IN THE FIRST 2 CELLS ADJACENT TO EACH OPENING
   - B.) IN THE END CELLS ON EACH SIDE OF VERTICAL CONTROL JOINTS
   - C.) IN THE END CELLS OF EACH LENGTH OF WALL
   - D.) AT EACH CORNER OF WALLS
2. ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

A CMU WALL ELEVATION
1 1/2" = 1'-0"

NOTE: REINFORCING SHALL BE PLACED IN POSITIONEERS PRIOR TO GROUTING.

NOTE: VERTICAL REINFORCING PLACEMENT SHALL BE +/-1/4" FROM LOCATIONS NOTED.



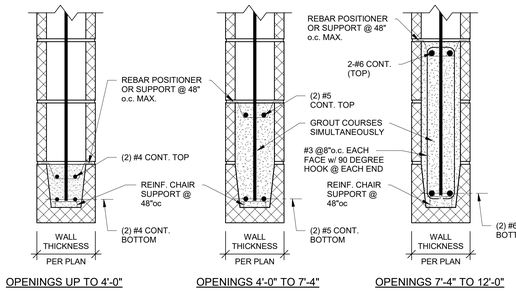
NOTE: ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

TYPICAL REBAR POSITIONING DETAIL

B SECTION
1 1/2" = 1'-0"

TYPICAL MASONRY REINFORCING NOTE:

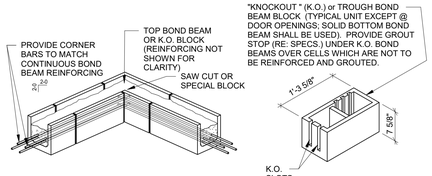
ALL INTERIOR & EXTERIOR MASONRY WALLS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH BOND BEAMS (2 - #5 BOTTOM) AT BOTTOM COURSE, TOP COURSE, JOIST BEARING ELEVATION AND AT 8'-0" MAXIMUM O.C. AND VERTICALLY AS INDICATED ON DRAWINGS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO THE FOUNDATION, FLOOR, OR ROOF PER TYPICAL DETAILS. THE VERTICAL REINFORCING IS CONTINUOUS (IN 6'-6" MAXIMUM LENGTHS, LAPPED 2'-6" MINIMUM). FILL BLOCK CELLS AND BOND BEAMS WITH 2,500psi GROUT. RE: DETAILS "A" THROUGH "E" ON THIS SHEET.



OPENINGS UP TO 4'-0" | OPENINGS 4'-0" TO 7'-4" | OPENINGS 7'-4" TO 12'-0"

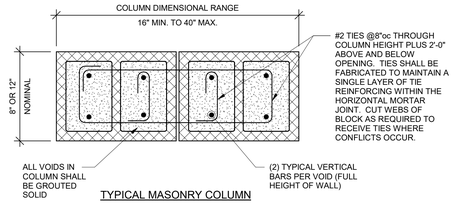
TYPICAL LINTELS AT ALL CMU WALLS (U.N.O.)

C SECTION
1 1/2" = 1'-0"



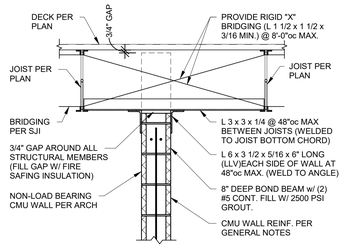
TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

D DETAIL
3/4" = 1'-0"

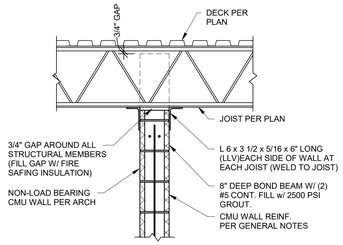


TYPICAL MASONRY COLUMN

E SECTION
1 1/2" = 1'-0"



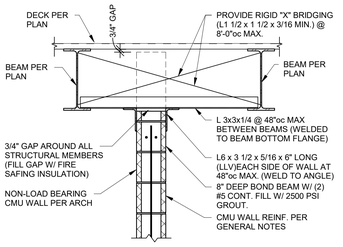
WALL PARALLEL TO JOIST



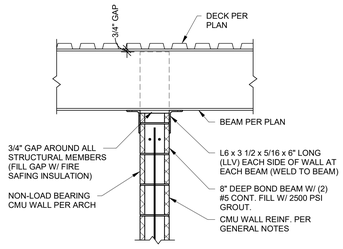
WALL PERPENDICULAR TO JOIST

TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

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



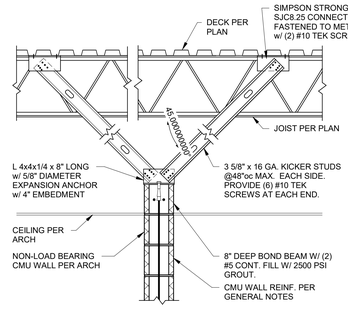
WALL PARALLEL TO JOIST



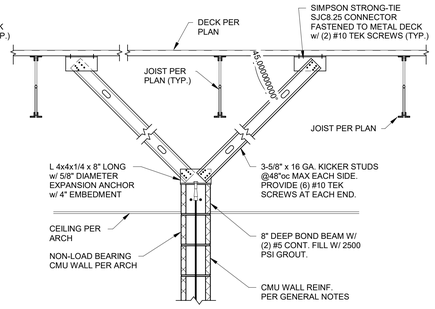
WALL PERPENDICULAR TO JOIST

TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

2 SECTION
3/4" = 1'-0"



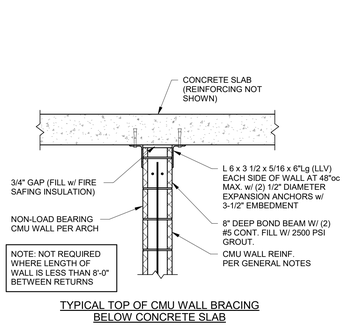
WALL PERPENDICULAR TO JOIST



WALL PARALLEL TO JOIST

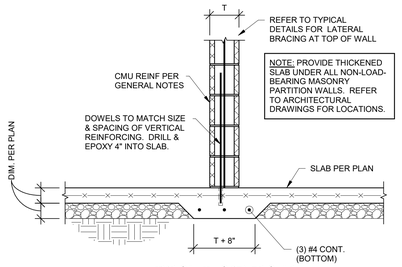
TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT DO NOT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

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



TYPICAL TOP OF CMU WALL BRACING
BELOW CONCRETE SLAB

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



TYPICAL THICKENED SLAB
(UNDER NON-LOAD-BEARING MASONRY)

5 SECTION
3/4" = 1'-0"

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI — WILLIAM E. DOYLE — NUMBER 2006024 — REGISTERED PROFESSIONAL ENGINEER
12-7-23

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S002

CMU DETAILS

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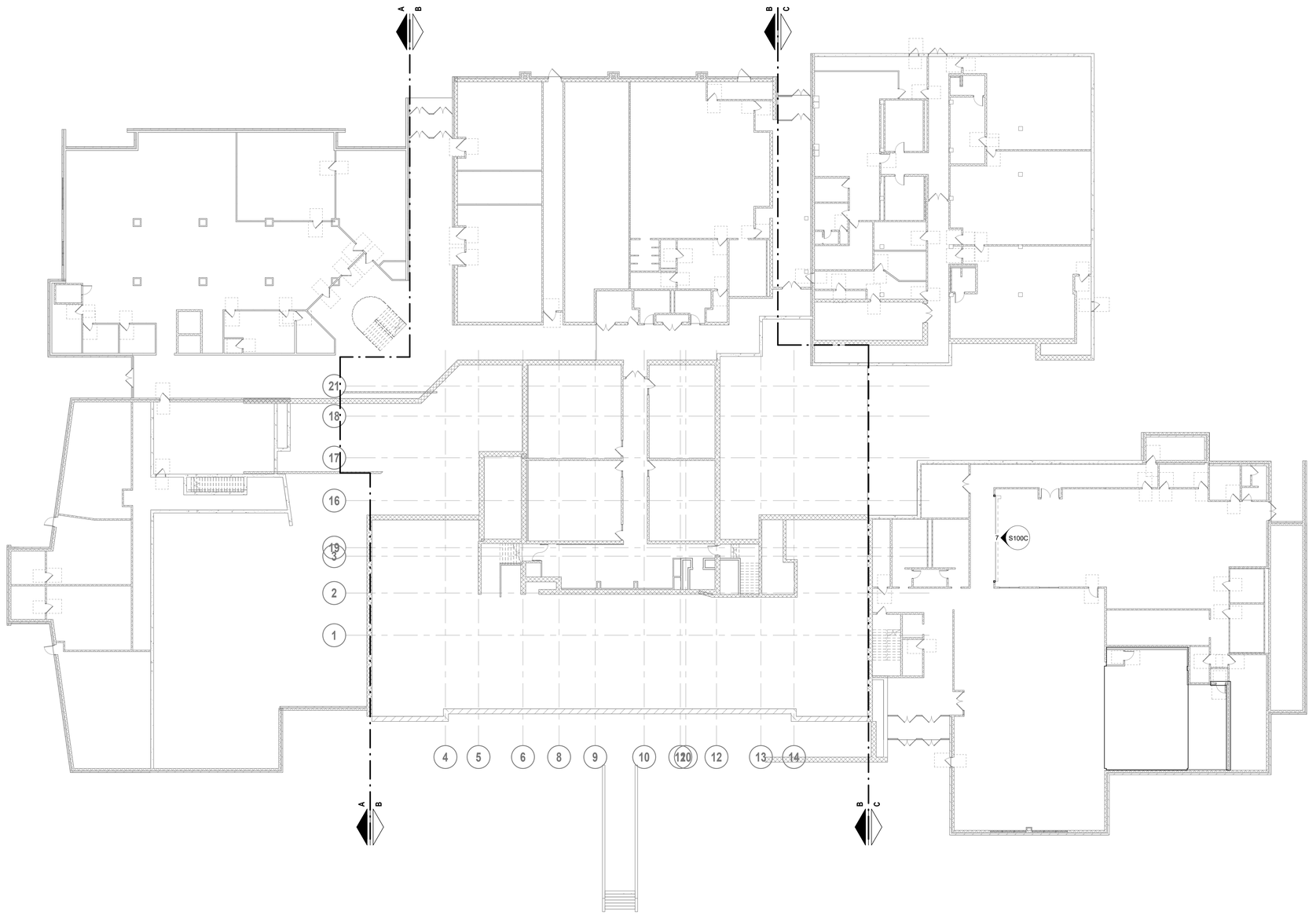

1 LEVEL 0 PLAN - OVERALL
1/16" = 1'-0"

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REVISIONS:

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STATE OF MISSOURI
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2024032044
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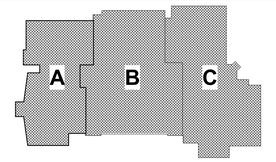
KEY PLAN



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LEVEL 0 PLAN - OVERALL

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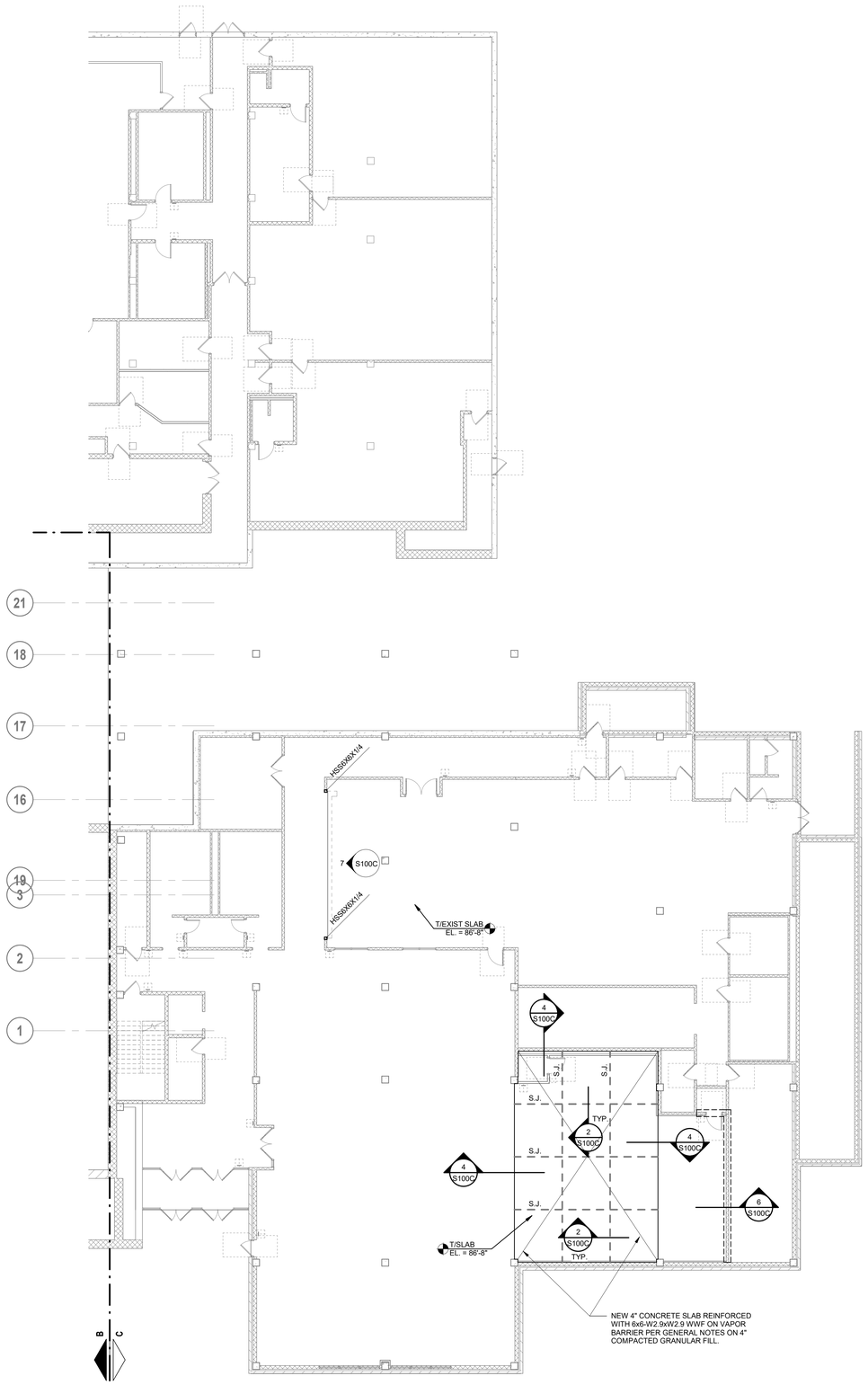
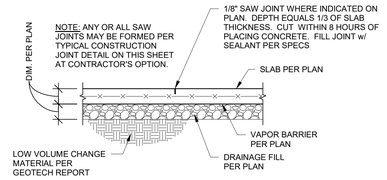
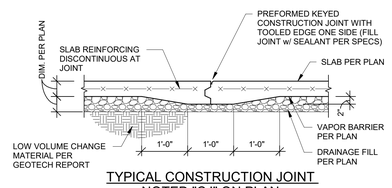


1 LEVEL 0 PLAN - AREA C
3/32" = 1'-0"



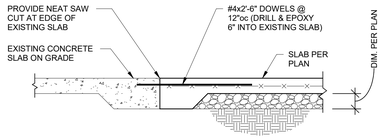
TYPICAL SAW JOINT
NOTED "SJ" ON PLAN

2 SECTION
3/4" = 1'-0"



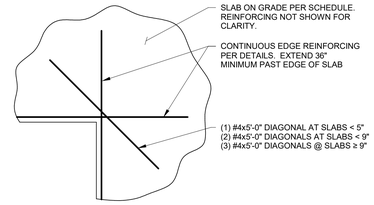
TYPICAL CONSTRUCTION JOINT
NOTED "CJ" ON PLAN

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



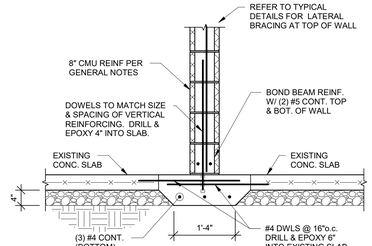
TYPICAL AT NEW-TO-EXISTING SLAB ON GRADE CONSTRUCTION JOINT

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

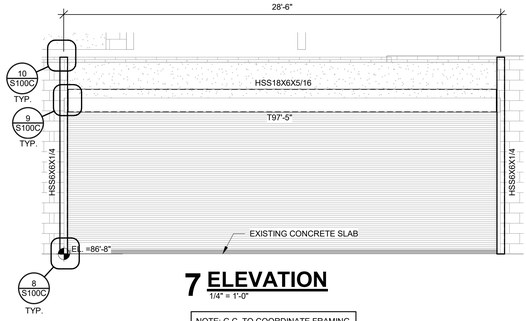


TYPICAL SLAB ON GRADE RE-ENTRANT CORNER BARS

5 DETAIL
1/2" = 1'-0"

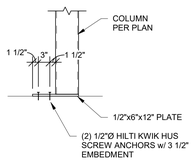


6 SECTION
3/4" = 1'-0"

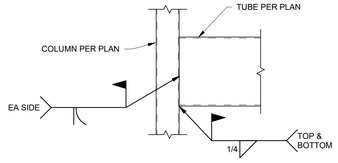


7 ELEVATION
1/4" = 1'-0"

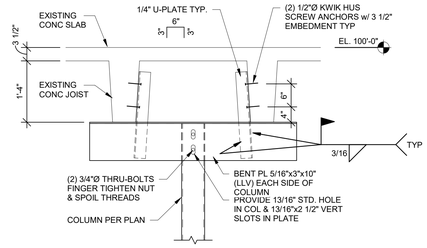
NOTE: G.C. TO COORDINATE FRAMING DIMENSIONS & ELEVATIONS w/ DOOR SUPPLIER



8 SECTION
3/4" = 1'-0"

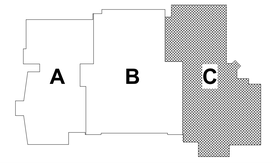


9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"

KEY PLAN



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Liberty, MO 64068

REVISIONS:

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BOB D. CAMPBELL
NUMBER A-2004024
REGISTERED PROFESSIONAL ENGINEER
12-7-23

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DATE: 12.07.2023

S100C

LEVEL 0 PLAN - AREA A

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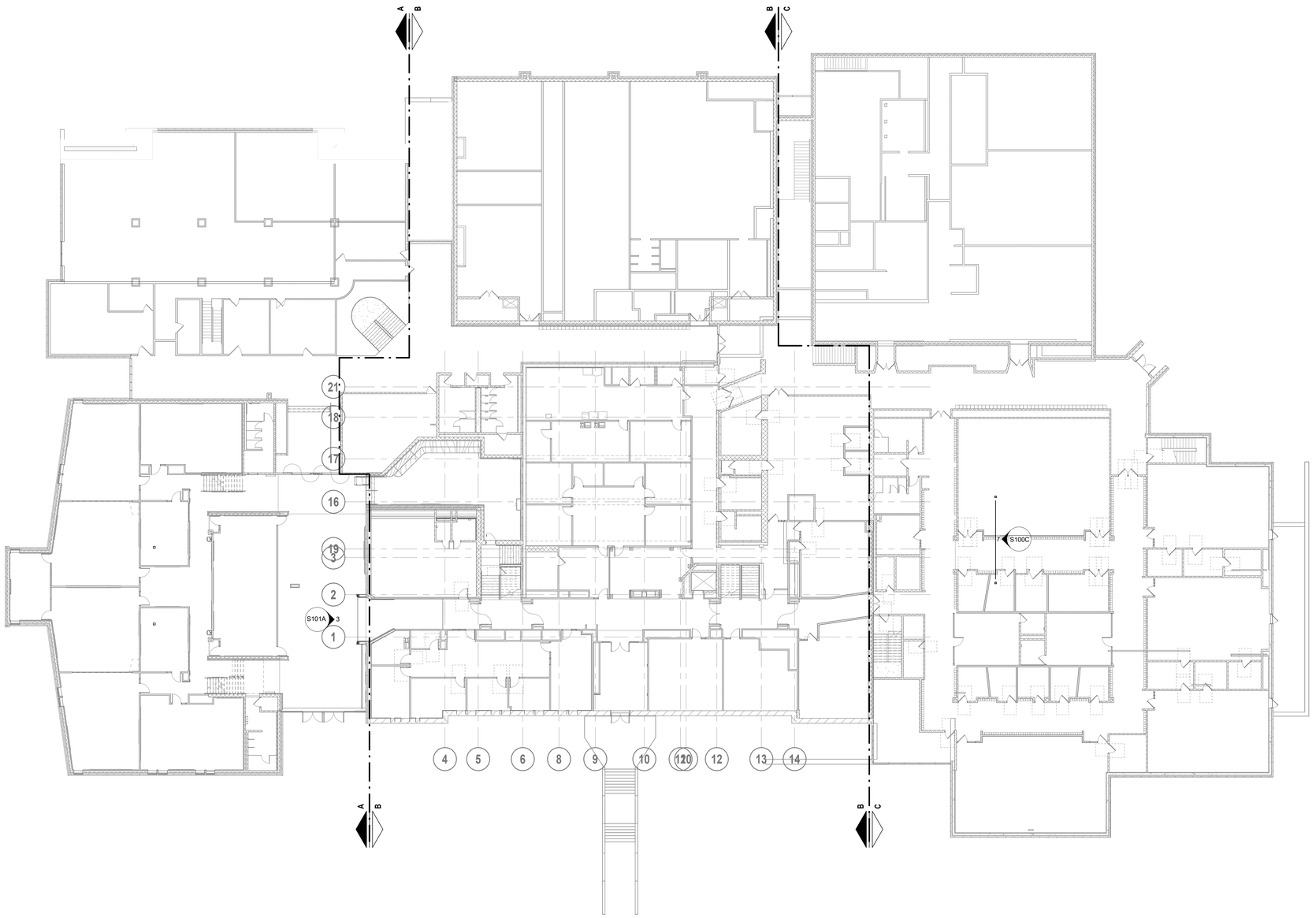

1 LEVEL 1 PLAN - OVERALL
1/16" = 1'-0"

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STATE OF MISSOURI
DAVID E. WEDEKING
NUMBER A-5809
REGISTERED PROFESSIONAL ARCHITECT
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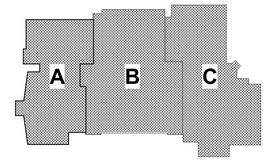

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S101

LEVEL 1 PLAN - OVERALL

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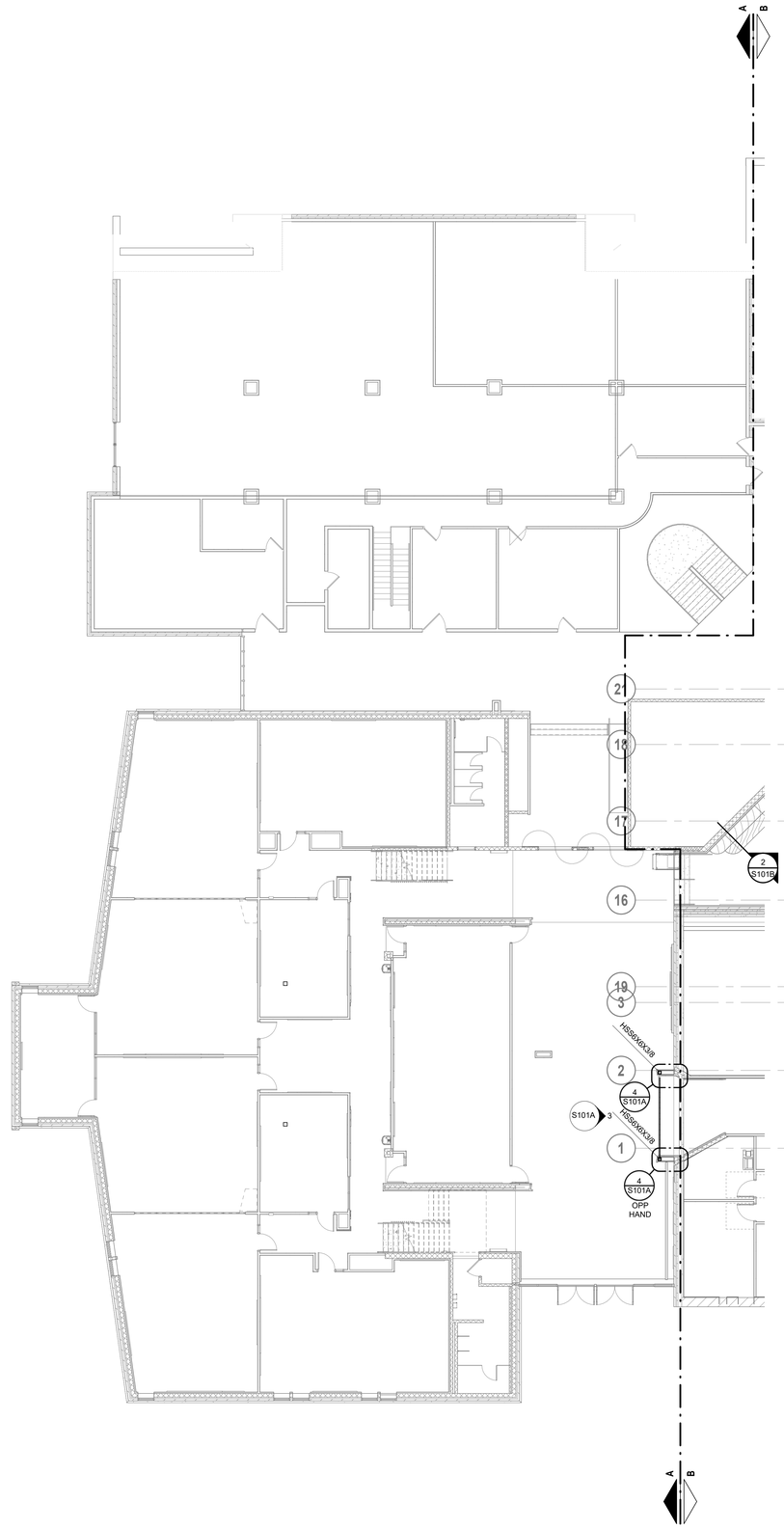
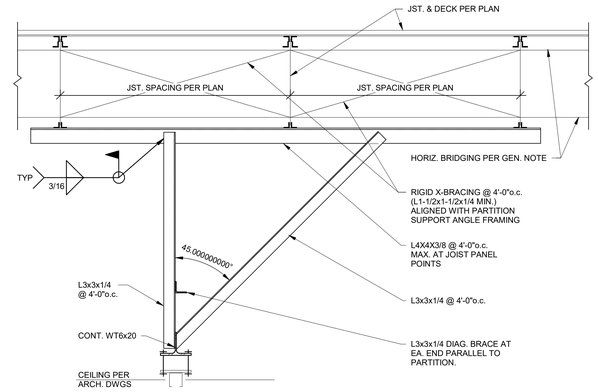
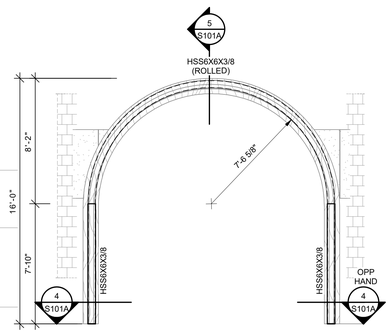


1 LEVEL 1 PLAN - AREA A
3/32" = 1'-0"

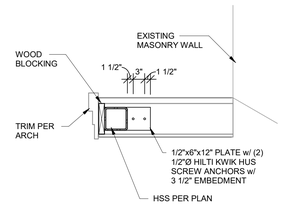


FOLDING PARTITION SUPPORT PARALLEL TO JOIST

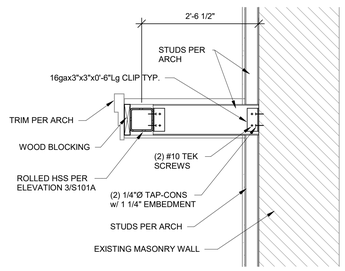
2 SECTION
3/4" = 1'-0"



3 ELEVATION
1/4" = 1'-0"

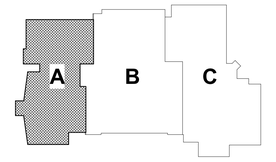


4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

KEY PLAN



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S101A

LEVEL 1 PLAN - AREA A

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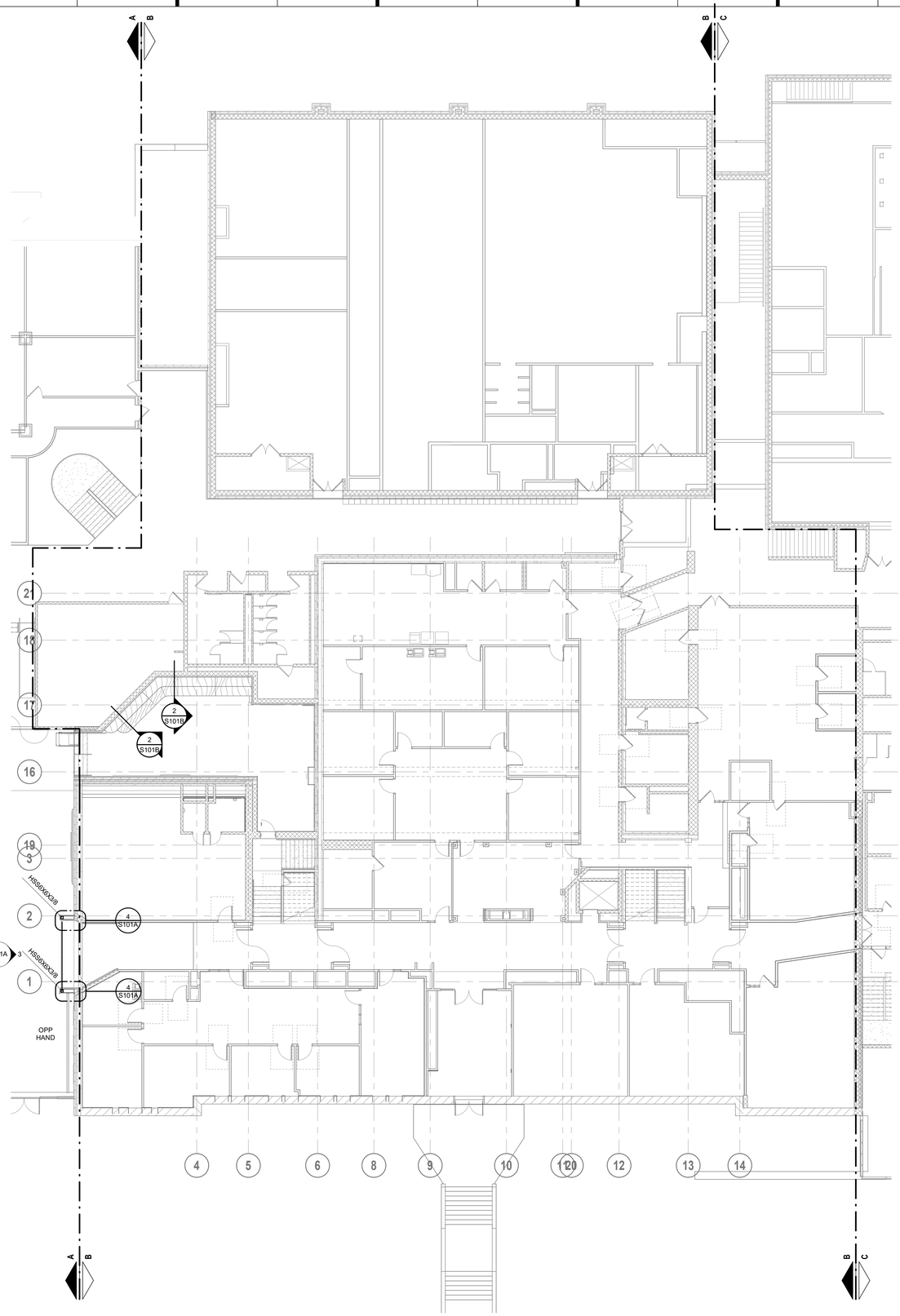
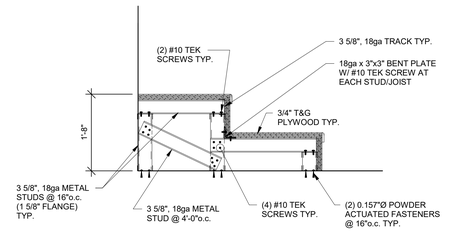


1 **LEVEL 1 PLAN - AREA B**
3/32" = 1'-0"



2 **SECTION**
3/4" = 1'-0"

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Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
WILLIAM E. DOYLE
NUMBER A-2004018024
REGISTERED PROFESSIONAL ENGINEER
12-7-23

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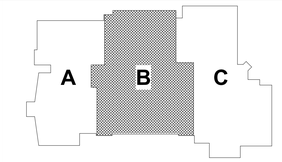

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DATE: 12.07.2023

S101B

LEVEL 1 PLAN - AREA B

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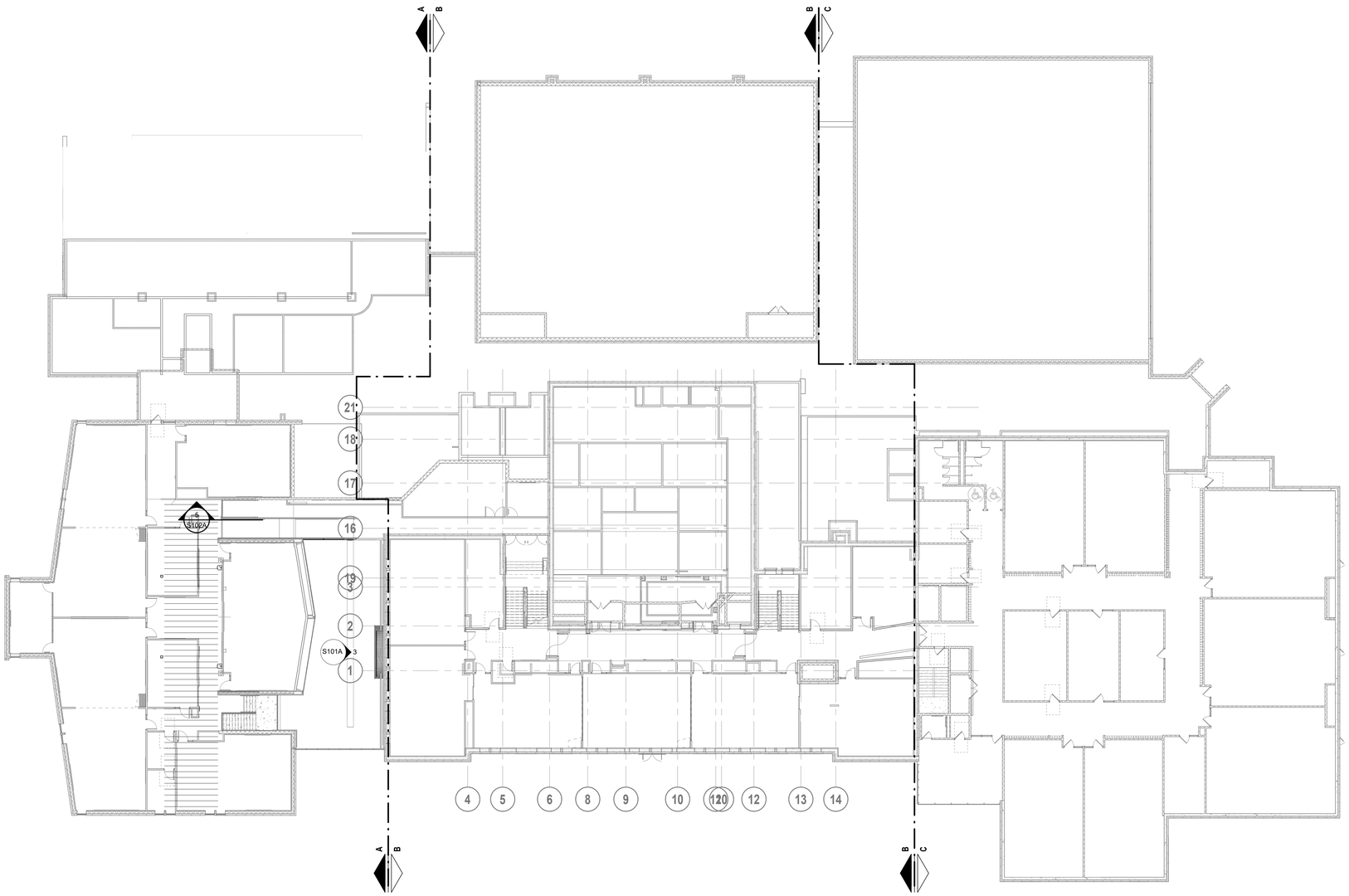

1 LEVEL 2 FRAMING PLAN - OVERALL
1/16" = 1'-0"

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REVISIONS:

#	Description	Date

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12-7-23

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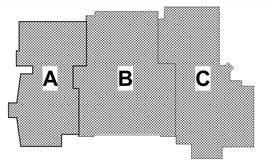
DRAWN BY: KEJ
CHECKED BY: WED
DATE: 12.07.2023

S102

KEY PLAN



LEVEL 2 FRAMING PLAN - OVERALL

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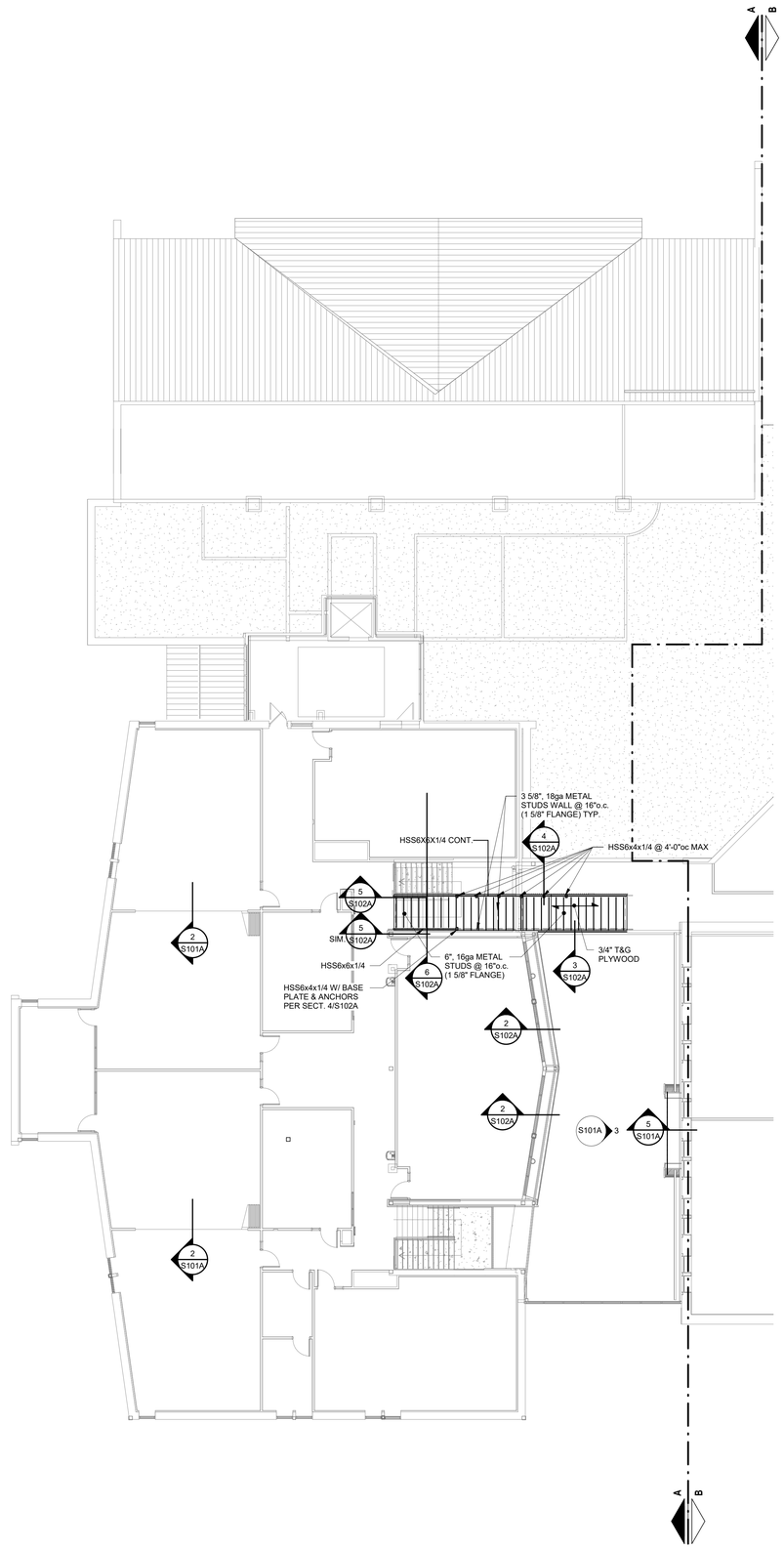
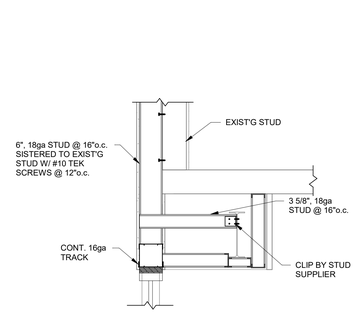
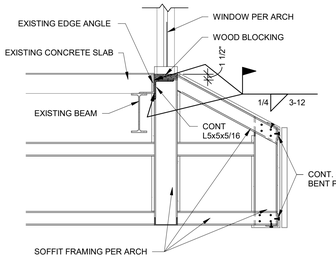
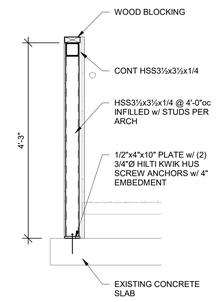


1 LEVEL 2 PLAN - AREA A
3/32" = 1'-0"

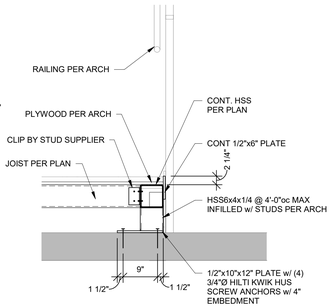




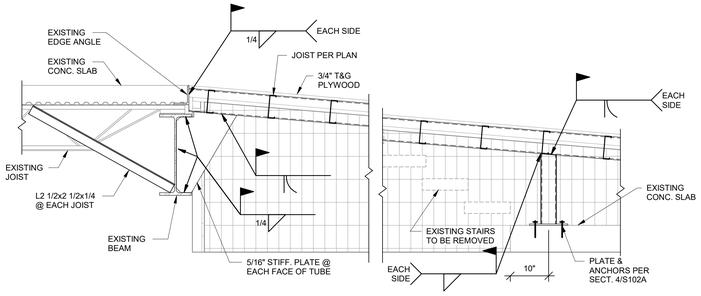
2 SECTION
3/4" = 1'-0"



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



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



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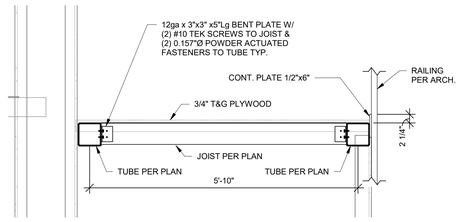
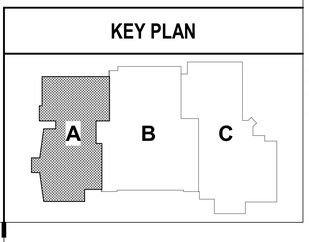


6 SECTION
3/4" = 1'-0"



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DATE: 12.07.2023

S102A

LEVEL 2 PLAN - AREA A

12/7/2023 11:11:52 AM

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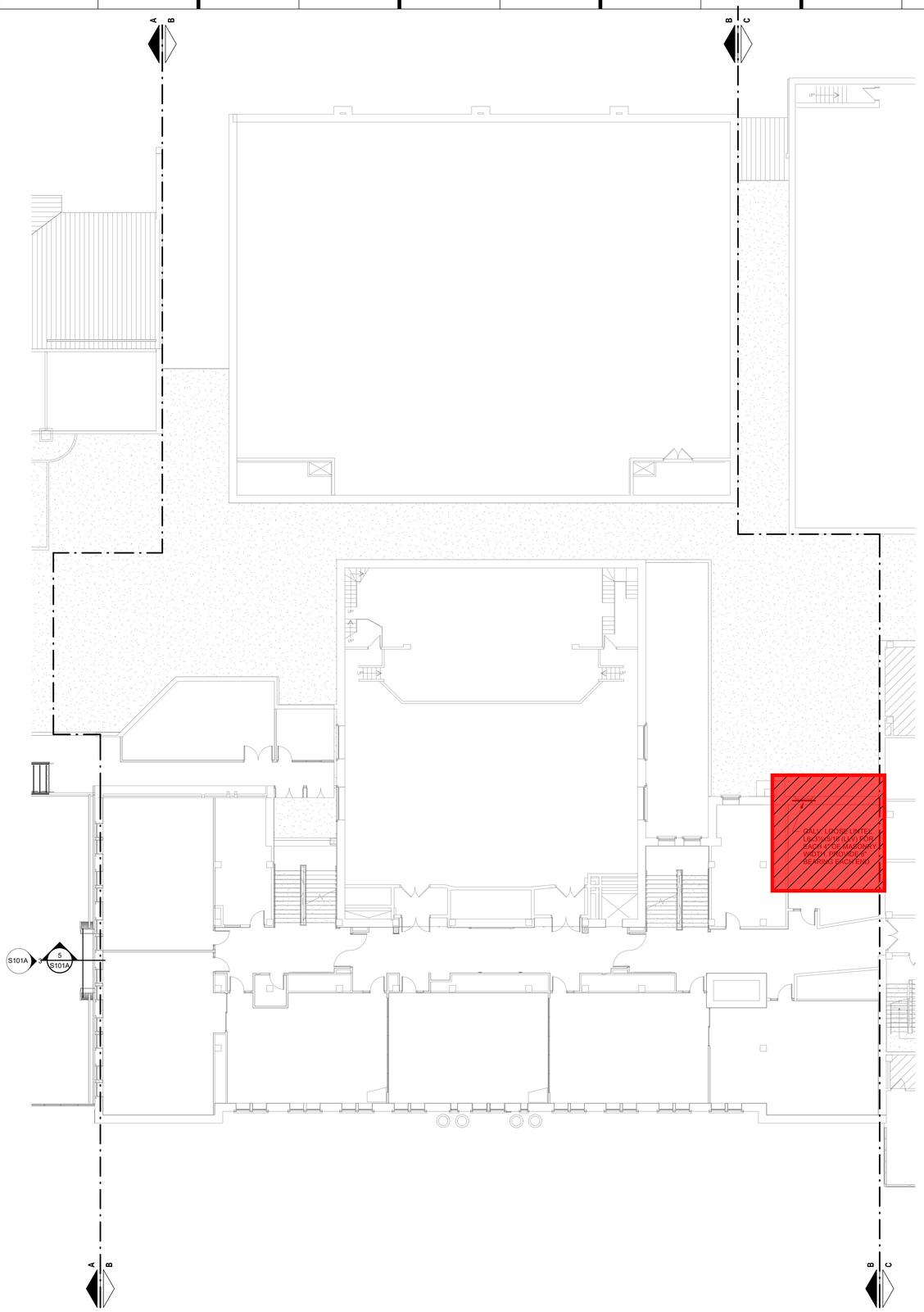
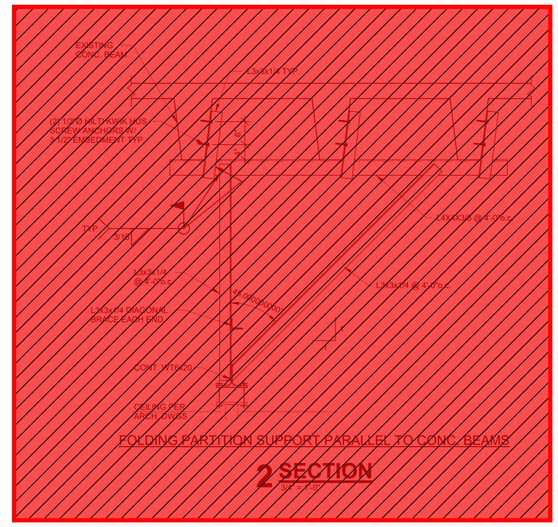


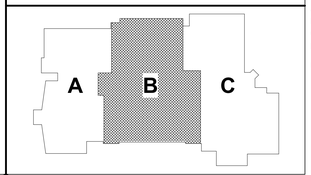
1 LEVEL 2 PLAN - AREA B
3/32" = 1'-0"



2 SECTION
3/4" = 1'-0"

= Phase 2 Scope of Work
(Not included in this Bid Package)

KEY PLAN



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S102B

LEVEL 2 PLAN - AREA B

12/7/2023 11:11:53 AM

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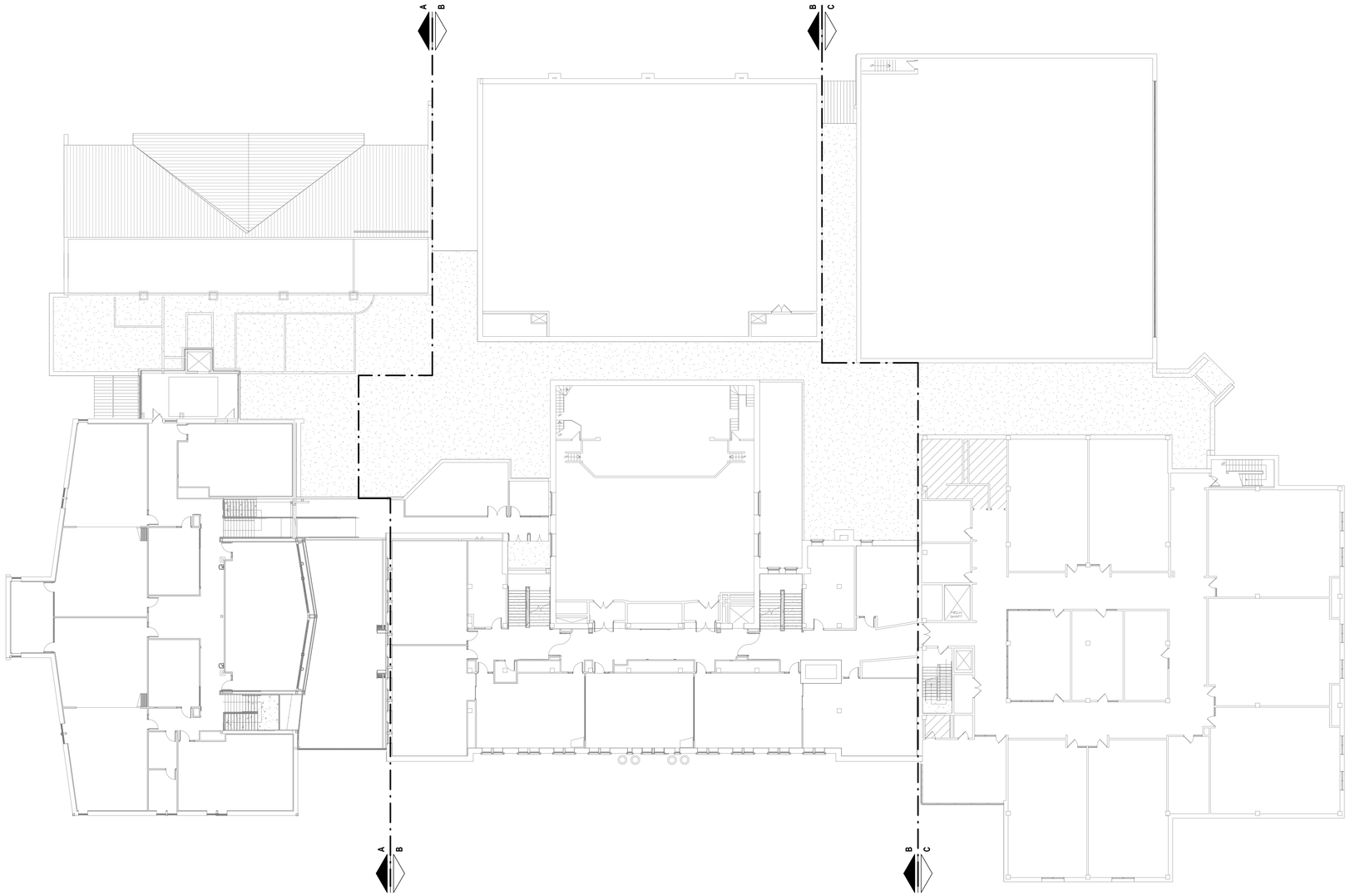

1 LEVEL 3 PLAN - OVERALL
1/16" = 1'-0"

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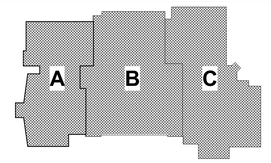

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DRAWN BY: KEJ
CHECKED BY: WED
DATE: 12.07.2023

S103

ROOF FRAMING PLAN

12/7/2023 11:11:55 AM

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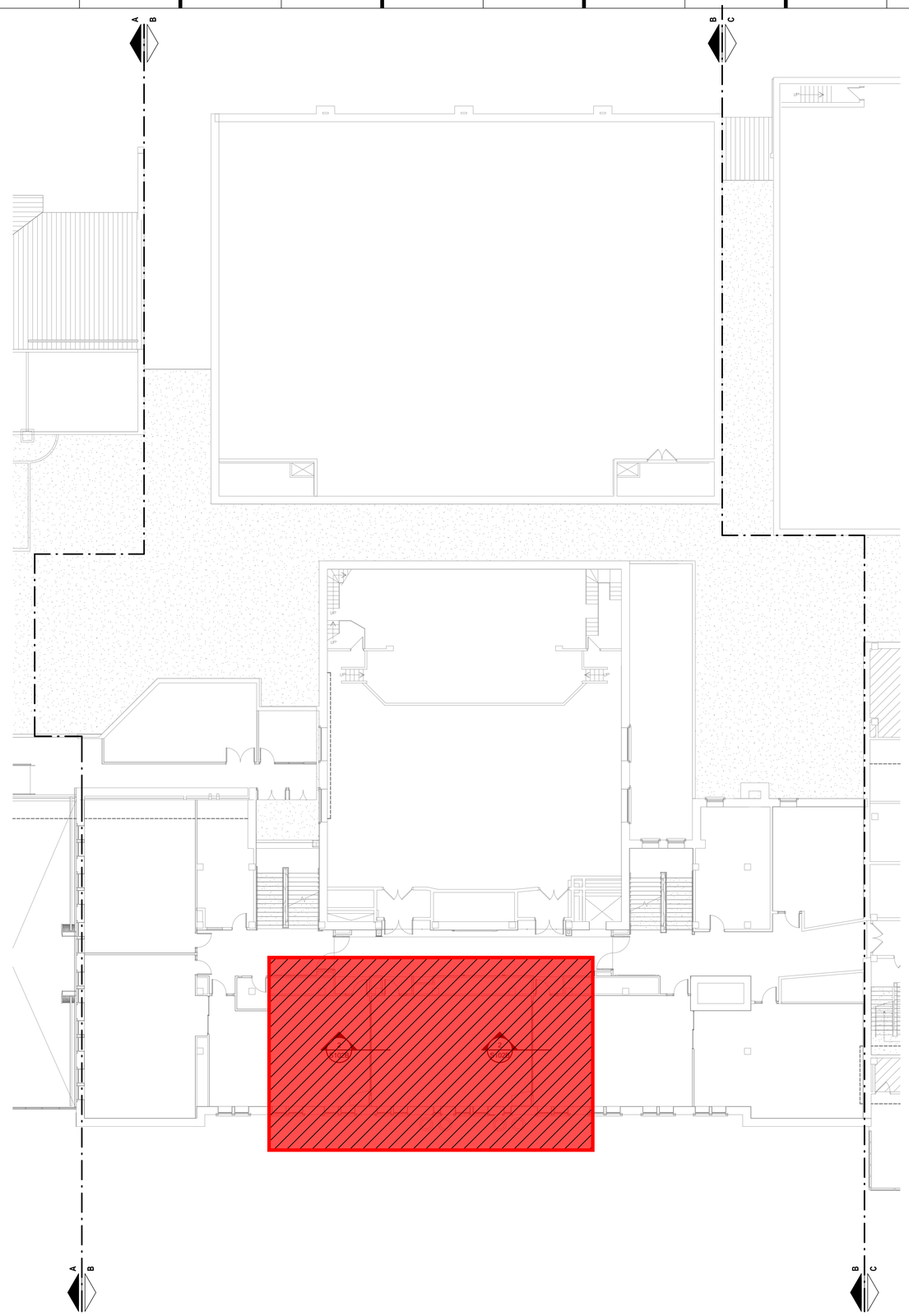
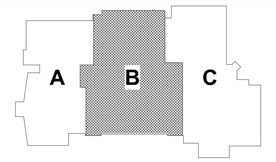


1 **LEVEL 3 PLAN - AREA B**
3/32" = 1'-0"

= Phase 2 Scope of Work
(Not included in this Bid Package)

KEY PLAN



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S103B

LEVEL 3 PLAN - AREA B

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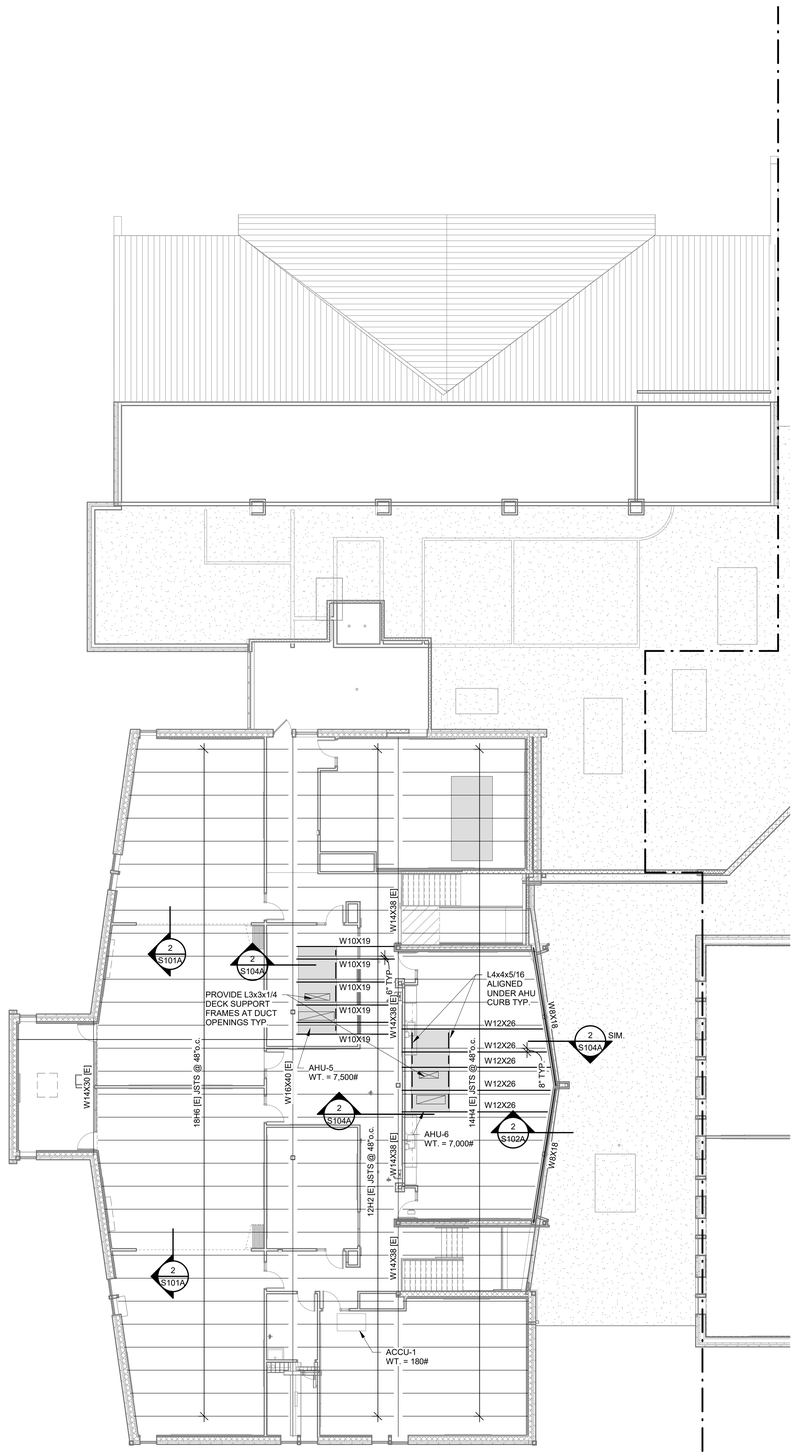
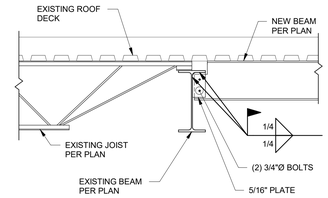
12/7/2023 11:11:55 AM



1 ROOF FRAMING PLAN - AREA A

3/32" = 1'-0"

NOTES:
1) (E) INDICATES EXISTING STRUCTURAL MEMBER
2) G.C. TO COORDINATE FRAMING DIMENSIONS/LAYOUT WITH APPROVED MECHANICAL SHOP DRAWINGS



2 SECTION

3/4" = 1'-0"

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CHECKED BY: WED
DATE: 12.07.2023

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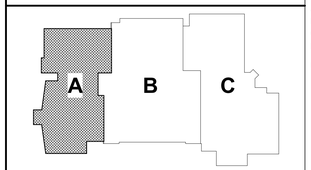

S104A

ROOF FRAMING PLAN - AREA A

12/7/2023 11:11:57 AM

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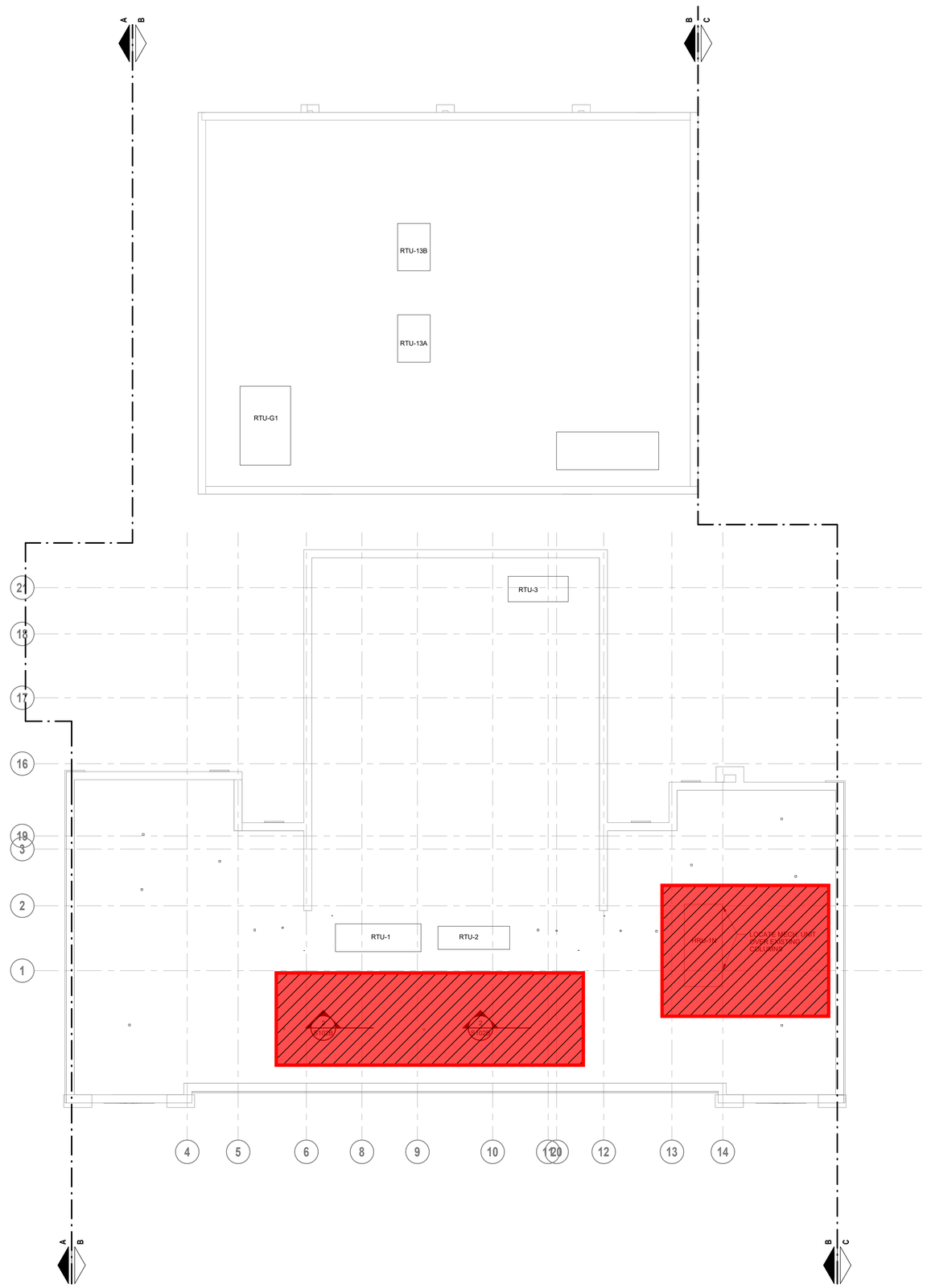

1 ROOF FRAMING PLAN - AREA B

3/32" = 1'-0"

SHEET KEYNOTE LEGEND

= Phase 2 Scope of Work
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S104B

ROOF FRAMING PLAN - AREA B

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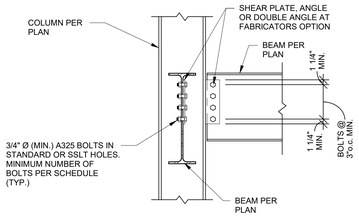
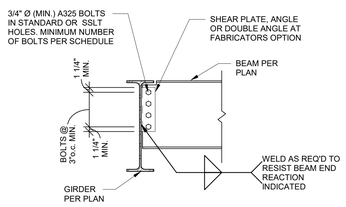
12/7/2023 11:11:57 AM



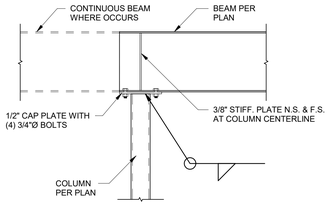
TYPICAL BEAM TO COLUMN SHEAR CONNECTION

1 DETAIL
3/4" = 1'-0"



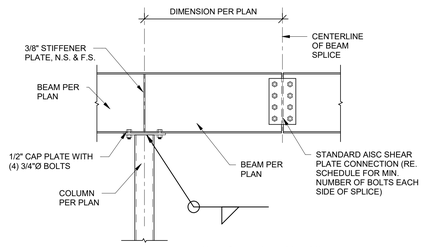
TYPICAL BEAM TO GIRDER CONNECTION

2 DETAIL
3/4" = 1'-0"



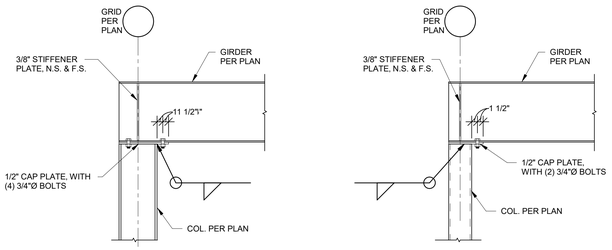
TYPICAL BEAM TO COLUMN CONNECTION

3 DETAIL
3/4" = 1'-0"



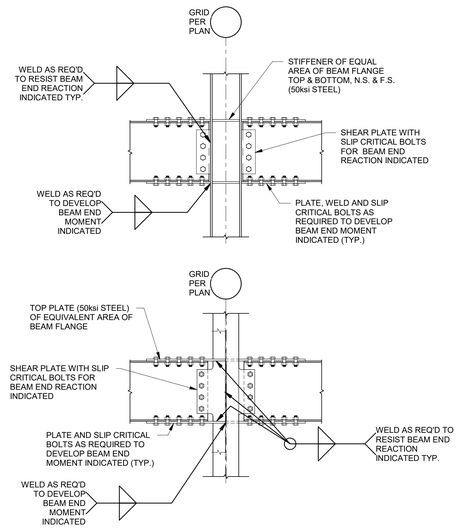
TYPICAL BEAM SPLICE

4 DETAIL
3/4" = 1'-0"



TYPICAL ROOF BEAM TO COLUMN CONNECTION AT EXTERIOR WALL

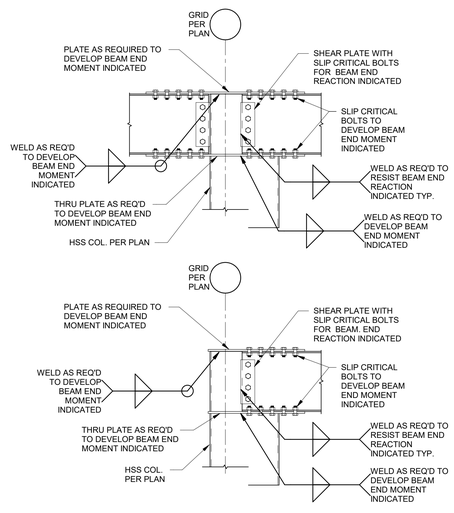
5 SECTION
3/4" = 1'-0"



TYP. BEAM TO WIDE FLANGE COL. MOMENT CONNECTIONS

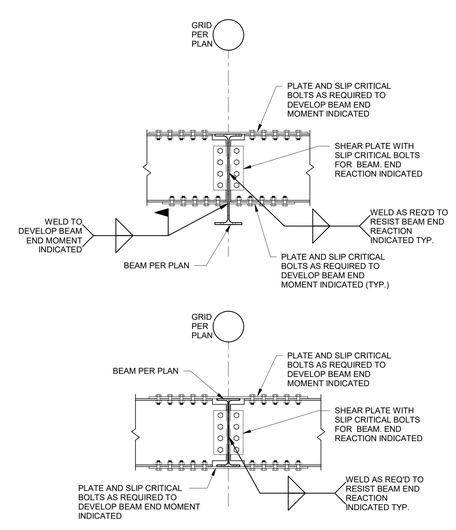
NOTE: FLANGE PLATES MAY BE FULL PENETRATION WELDED TO COLUMN AT CONTRACTORS OPTION

6 SECTION
3/4" = 1'-0"



TYPICAL BEAM TO HSS COLUMN MOMENT CONNECTIONS

7 SECTION
3/4" = 1'-0"



TYP. BEAM TO BEAM MOMENT CONNECTIONS

8 SECTION
3/4" = 1'-0"

BEAM SHEAR CONNECTION SCHEDULE		
BEAM SIZE	MINIMUM ROWS OF BOLTS	END REACTION (kips)(U.N.O.)
W8,C8	2	16
W10,C10	2	16
W12,C12	2	16
W14	3	24
W16, C15	3	32
W18	4	60
W21	5	65
W24	6	70
W27	7	80
W30	8	95
W33	9	115
W36	9	125
W40	10	130

STEEL CONNECTION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. CONNECTIONS SHOWN IN THESE DETAILS ARE MINIMUM REQUIREMENTS.
3. FABRICATOR SHALL BE RESPONSIBLE FOR THE ENGINEERING, DESIGNING, AND DETAILING OF EACH CONNECTION FOR LOADS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STRUCTURAL GENERAL NOTES.
4. SUGGESTED CONNECTION DETAILS ARE SHOWN. FINAL CONNECTION CONFIGURATION AND DESIGN SHALL BE COMPLETED BY THE CONNECTION ENGINEER. CONNECTION DESIGN SHALL INCLUDE COLUMN OR BEAM CONTINUITY PLATES, WEB STIFFENERS, AND/OR DOUBLER PLATES AS REQUIRED FOR THE FORCES INDICATED.
5. FABRICATOR MAY OPT TO USE OTHER AISC APPROVED CONNECTIONS IN LIEU OF THESE SHOWN HEREIN TO MEET END REACTION REQUIREMENTS (i.e. DOUBLE ANGLE CONNECTION).
6. CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD DETAILS SHOWN IN THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
7. ALL BOLTS SHALL BE 3/4" Ø ASTM A325 MINIMUM.
8. ALL BOLTS SHALL BE SPACED AT 3"o.c. MINIMUM.
9. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
10. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
11. BOLT SPACING AND EDGE DISTANCES SHALL BE ADJUSTED PER AISC MANUAL FOR BOLTS LARGER THAN 3/4" DIAMETER.
12. CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.
13. FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES. INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR PLATE CONNECTION W/ AN ADDITIONAL COLUMN OF BOLTS TO ACCOMODATE COMBINED FORCES.
14. PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION LOAD REQUIREMENTS.
15. REFER TO BRACING ELEVATIONS FOR BRACE FORCES. REFER TO PLANS FOR ADDITIONAL BEAM AXIAL FORCES. BRACE AND BEAM FORCES INDICATED ARE UNFACTORED (ASD) LOADS AND SHALL BE CONSIDERED CONCURRENT W/ BEAM SHEAR DESIGN FORCES LISTED IN THE BEAM SHEAR CONNECTION SCHEDULE.
16. COORDINATE BRACED FRAME CONNECTION W/ ARCHITECTURAL WALLS AS REQUIRED TO AVOID CONFLICT OR EXPOSURE OUTSIDE OF WALL OR FINISH.
17. ALL END REACTIONS INDICATED ARE UNFACTORED (ASD) LOADS.

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785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
BOB D. CAMPBELL
NUMBER A-6442
REGISTERED PROFESSIONAL ENGINEER
12-7-23

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JOB NO: 23024
DRAWN BY: KEJ
CHECKED BY: WED
DATE: 12.07.2023

S300

ROOF FRAMING SECTION

12/7/2023 11:11:58 AM

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CONDUIT AND WIRE

- ARROWS INDICATE CONDUIT AND WIRE HOME RUN(S) TO PANEL WITH 2-#12 AWG CONDUCTORS UNLESS NOTED OR OTHERWISE REQUIRED.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
- T — TELEPHONE CONDUIT
- LV — LOW VOLTAGE CONDUIT AND WIRING

LIGHTING

- BATTERY OPERATED EMERGENCY LIGHT (WALL MOUNTED)
- BATTERY OPERATED EMERGENCY LIGHT (CEILING MOUNTED)
- SURFACE/RECESSED LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT STRIP FIXTURE
- SHADING DENOTES EMERGENCY FIXTURE
- POLE MOUNTED LIGHT FIXTURE
- EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN
- EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN
- LIGHTING SWITCHES-SINGLE POLE, 3-WAY, 4-WAY, KEY, LOW VOLTAGE, PILOT LIGHT
- ^{D} DIMMER WITH SINGLE POLE SWITCH
- ^{D3} DIMMER WITH THREE WAY SWITCH (WATTAGE NOTED)
- ^{M} WALL MOUNTED MOTION SENSOR
- (A) CEILING MOUNTED MOTION SENSOR (LETTER DENOTES TYPE)
- SWITCH AND DUPLEX RECEPTACLE
- DENOTES A WALL MOUNTED FIXTURE

WIRING DEVICES

- DUPLEX RECEPTACLE.
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DUPLEX RECEPTACLE WITH ISOLATED GROUND (SINGLE AND FOURPLEX SIMILAR)
- DUPLEX RECEPTACLE - TOP HALF SWITCHED - BOTTOM HALF TO HAVE POWER AT ALL TIMES
- DUPLEX RECEPTACLE ON EMERGENCY POWER (SINGLE AND FOURPLEX SIMILAR)
- FOURPLEX RECEPTACLE
- SINGLE RECEPTACLE
- CEILING MOUNTED RECEPTACLE
- MULTI-SERVICE FLOOR BOX
- DIVIDED POWER POLE
- FLOOR BOX W/DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE W/NEMA CONFIGURATION AS NOTED
- CLOCK RECEPTACLE
- MULTI-OUTLET ASSEMBLY

COMMUNICATIONS

- TELEPHONE OUTLET
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DATA OUTLET
- TELEPHONE/DATA OUTLET
- FLOOR BOX WITH COMMUNICATIONS OUTLET
- TV TELEVISION ANTENNA OUTLET
- TELEPHONE CABINET OR PLYWOOD BOARD

SECURITY

- CLOSED CIRCUIT TV CAMERA
- CR CARD READER
- DL DOOR LOCK
- M SECURITY MONITOR
- WT WATCH TOUR
- EDL ELECTRIC DOOR LOCK
- S MOTION SENSOR - SECURITY
- S MOTION SENSOR (WALL MOUNTED) - SECURITY

PUBLIC ADDRESS

- M MICROPHONE OUTLET
- SH SPEAKER. ('H' DENOTES HORN TYPE)
- V SPEAKER VOLUME CONTROL
- SPEAKER CONDUIT AND WIRING
- PA PUBLIC ADDRESS AMPLIFIER AND CABINET
- BUZZER
- BELL
- INTERCOM OUTLET
- M INTERCOM OUTLET - MASTER
- D CLOCK SYSTEM RECEPTACLE WITH SINGLE FACE ('D' DENOTES DOUBLE FACE)

POWER DEVICE AND CONTROLS

- T THERMOSTAT
- DISCONNECT SWITCH. 30A-3P, NON-FUSED EXCEPT AS NOTED
- MANUAL MOTOR STARTER
- MAGNETIC MOTOR STARTER
- J COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
- MOTOR
- PANELBOARD (SEE ONE-LINE)
- DISTRIBUTION PANELBOARD
- CONTACTOR
- AUTOMATIC TRANSFER SWITCH
- PC PHOTOCELL
- J JUNCTION BOX
- PUSHBUTTON
- T TRANSFORMER

FIRE ALARM

- F MANUAL PULL STATION
- PE D PHOTOELECTRIC DETECTOR ('D' DENOTES IN DUCT) ('B' DENOTES BEAM-TYPE) ('R' DENOTES IN RETURN AIR PLENUM)
- ION D IONIZATION DETECTOR ('D' DENOTES IN DUCT) ('P' DENOTES PLENUM-TYPE)
- INF D INFRARED DETECTOR ('D' DENOTES IN DUCT)
- H 190 D THERMODETECTOR ('D' DENOTES IN DUCT) FIXED TEMPERATURE AS NOTED
- DH DOOR HOLDER
- C CHIME
- B BELL
- FL FIRE ALARM STROBE LIGHT
- FIRE ALARM SPEAKER - ARROWS DENOTE PROJECTORS IF ANY. ('L' DENOTES COMBINATION SPEAKER AND VISUAL FIRE LIGHT)
- FIRE HORN. ('L' DENOTES COMBINATION HORN AND VISUAL FIRE LIGHT)
- RL REMOTE ALARM LAMP
- PI POST INDICATOR SWITCH
- FS FLOW SWITCH
- GS GATE SWITCH
- F FIREMAN'S PHONE JACK

FIRE PROTECTION

- FP FIRE PROTECTION PIPING
- FHC FIRE HOSE CABINET
- FDV FIRE DEPARTMENT VALVE
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER
- RECESSED SPRINKLER
- RECESSED SPRINKLER WITH CLOSURE PLATE
- SIDEWALL SPRINKLER.
- DOUBLE CHECK DETECTOR BACKFLOW PREVENTER
- FIRE PROTECTION SIAMESE CONNECTION
- FIRE PROTECTION SIDEWALK SIAMESE CONNECTION
- POST INDICATOR VALVE

MEDICAL GAS

- VAC MEDICAL VACUUM
- OX OXYGEN
- NO NITROUS OXIDE
- MA MEDICAL COMPRESSED AIR
- N NITROGEN
- (X) OXYGEN OUTLET
- (V) VACUUM OUTLET
- (A) MEDICAL AIR OUTLET
- (NO) NITROUS OXIDE OUTLET
- (N) NITROGEN OUTLET

HVAC

- CWS CHILLED WATER SUPPLY
- CWR CHILLED WATER RETURN
- CHWS CHILLED/HOT WATER SUPPLY
- CHWR CHILLED/HOT WATER RETURN
- HWS HEATING HOT WATER SUPPLY
- HWR HEATING HOT WATER RETURN
- CTS COOLING TOWER SUPPLY
- CTR COOLING TOWER RETURN
- STM LOW PRESSURE STEAM
- RTN LOW PRESSURE CONDENSATE RETURN
- STM-50 HIGH PRESSURE STEAM - NO'S GIVE GAUGE PRESSURE IN P.S.I.
- RTN-50 HIGH PRESSURE RETURN - NO'S GIVE GAUGE PRESSURE IN P.S.I.
- RD REFRIGERANT DISCHARGE
- RL REFRIGERANT LIQUID
- RS REFRIGERANT SUCTION
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- A COMPRESSED AIR
- D DRAIN (CONDENSATE)
- T S THERMOSTAT - ('S' DENOTES SENSOR)
- H S HUMIDISTAT - ('S' DENOTES SENSOR)
- TH THERMOSTAT/HUMIDITY SENSOR
- CO2 CARBON DIOXIDE SENSOR
- THC THERMOSTAT/HUMIDITY SENSOR/CO2 SENSOR
- T/C THERMOSTAT/CO2 SENSOR
- HUMIDIFIER
- SUPPLY AIR FLOW INDICATOR
- RETURN AND EXHAUST AIR FLOW INDICATOR
- SUPPLY DIFFUSER
- SUPPLY STRIP DIFFUSER
- RETURN GRILLE OR EXHAUST REGISTER

HOSPITAL

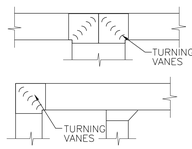
- N NURSE CALL CONDUIT AND WIRING
- M MONITOR CONDUIT AND WIRING
- NMS NURSE CALL MASTER STATION
- N NURSE CALL BEDSIDE STATION - SINGLE PATIENT
- N 2 NURSE CALL BEDSIDE STATION - DOUBLE PATIENT
- E P EMERGENCY PUSHBUTTON STATION ('P' DENOTES PULL CORD)
- DS DUTY STATION
- SS STAFF STATION
- DOME LIGHT - CEILING MOUNTED ('B' DENOTES WITH BUZZER)
- DOME LIGHT - WALL MOUNTED ('B' DENOTES WITH BUZZER)
- Z ZONE DOME LIGHT
- B CODE BLUE PUSHBUTTON

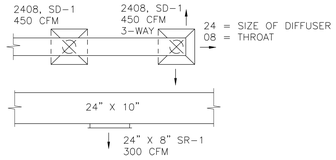
PLUMBING

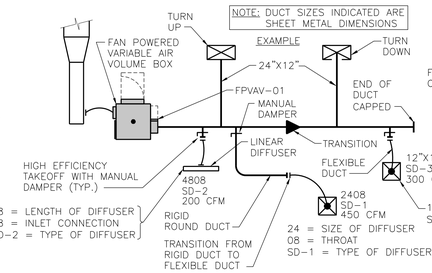
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- RECIRCULATING DOMESTIC HOT WATER
- TW DOMESTIC TEMPERED WATER
- + SOFT DOMESTIC COLD WATER
- ++ SOFT DOMESTIC HOT WATER
- +++ SOFT RECIRCULATING HOT WATER
- SAN SOIL OR WASTE ABOVE GRADE OR FLOOR
- SAN SOIL OR WASTE BELOW GRADE OR FLOOR
- ST STORM ABOVE GRADE OR FLOOR
- ST STORM BELOW GRADE OR FLOOR
- ST/O STORM OVERFLOW ABOVE GRADE OR FLOOR
- ST/O STORM OVERFLOW BELOW GRADE OR FLOOR
- V PLUMBING VENT
- G GAS (NATURAL)
- LP LIQUIFIED PETROLEUM
- PD PUMP DISCHARGE
- HB HOSE BIBB
- WH WALL HYDRANT
- WCO WALL CLEAN OUT
- CO CLEAN OUT
- FCO FLOOR CLEAN OUT
- FLOOR DRAIN, AREA DRAIN, FLOOR SINK
- RD ORD ROOF DRAIN, OVERFLOW ROOF DRAIN
- SHOWER HEAD.
- REDUCED PRESSURE BACKFLOW PREVENTER
- P # PLUMBING VENT RISER CALL-OUT NUMBER

GENERAL

- 1 MECHANICAL NOTE REFERENCE
- 2 ELECTRICAL NOTE REFERENCE
- 3 DEMOLITION NOTE REFERENCE
- 4 REVISION NOTE REFERENCE
- CONNECT TO EXISTING WORK
- 1 / M1 DETAIL REFERENCE - NO./SHEET NO.
- A / M1 SECTION CUT - SECTION/SHEET NO.

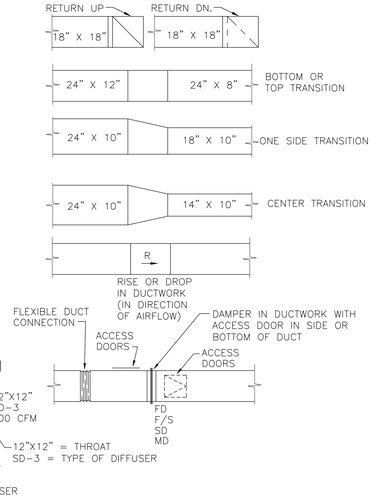






NOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS

DUCTWORK



PIPING

- ELBOW DOWN
- ELBOW UP
- TEE UP
- TEE DOWN
- CAP
- UNION
- REDUCER (OR INCREASER)
- PIPE FLEX
- STRAINER
- R RISE IN PIPING
- D DROP IN PIPING
- GUIDE
- ANCHOR
- PRESSURE GAUGE WITH GAUGE COCK
- TEMPERATURE GAUGE
- FLOW INDICATOR
- THERMOMETER.
- SITE GLASS
- EXPANSION JOINT
- FD FILTER-DRIER
- DRIP ASSEMBLY
- BASKET STRAINER
- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- BALANCING VALVE
- CALIBRATED BALANCING VALVE
- RELIEF VALVE
- TEST PLUG
- TRIPLE DUTY VALVE
- CHECK VALVE.
- AUTOMATIC CONTROL VALVE (2-WAY)
- AUTOMATIC CONTROL VALVE (3-WAY)
- AUTO FLOW CONTROL VALVE
- S SOLENOID VALVE
- P PRESSURE REDUCING VALVE

A	AMPS, AIR (COMPRESSED)	DX	DIRECT EXPANSION	HTG	HEATING	MUAF	MAKE UP AIR FAN
A/C	AIR CONDITIONING	EA	EXHAUST AIR	HTR	HEATER	MV	MIXING VALVE
AD	AREA DRAIN, ACCESS DOOR	EAT	ENTERING AIR TEMPERATURE	HVU	HEATING AND VENTILATING UNIT	N	NITROGEN
AFC	ABOVE FINISH CEILING	EC	ELECTRICAL CONTRACTOR, EMPTY CONDUIT	HW	DOMESTIC HOT WATER	N/A	NOT APPLICABLE
AFG	ABOVE FINISH GRADE	EF	EXHAUST FAN	HWR	HOT WATER RETURN	N/C	NORMALLY CLOSED
AHU	AIR HANDLING UNIT	EM	INDICATES EMERGENCY CIRCUIT	HWS	HOT WATER SUPPLY	N/O	NORMALLY OPEN
AFF	ABOVE FINISHED FLOOR	EPO	EMERGENCY POWER OFF	IE	INVERT ELEVATION	NF	INDICATES NON-FUSED DEVICE
BD	BACKDRAFT DAMPER, BLOWDOWN	ER	EXHAUST REGISTER	IG	ISOLATED GROUND	NIC	NOT IN CONTRACT
BFP	BACKFLOW PREVENTER	ETR	EXISTING TO REMAIN	KCMIL	1000 CIRCULAR MILS	NL	NIGHT LIGHT
BKR	BREAKER	EWB	ENTERING WET BULB	KV	KILOVOLT	NO	NITROUS OXIDE
BOD	BOTTOM OF DUCT	EWC	ELECTRIC WATER COOLER	KVA	KILOVOLT AMPS	OA	OUTSIDE AIR
BOP	BOTTOM OF PIPE	EWH	ELECTRIC WATER HEATER, ELEC. WALL HTR.	KW	KILOWATT	ORD	OVERFLOW ROOF DRAIN
BOS	BOTTOM OF STRUCTURE	EXH	EXHAUST	KWH	KILOWATT HOUR	OX	OXYGEN
BTU	BRITISH THERMAL UNIT	F/S	COMBINATION FIRE AND SMOKE DAMPER	LAT	LEAVING AIR TEMPERATURE	PD	PUMP DISCHARGE
C	CONDUIT	FACP	FIRE ALARM CONTROL PANEL	LDB	LEAVING DRY BULB	PH	PHASE
CATV	CABLE TELEVISION SYSTEM	FAACP	FIRE ALARM ANNUNCIATOR CONTROL PANEL	LP	LIQUIFIED PETROLEUM	PIV	POST INDICATOR VALVE
CB	CIRCUIT BREAKER	FCO	FLOOR CLEANOUT	LRA	LOCKED ROTOR AMPS	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	FCU	FAN COIL UNIT	LV	LOW VOLTAGE	PRV	PRESSURE REDUCING VALVE
CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER, FLOOR DRAIN	LWB	LEAVING WET BULB	QTY	QUANTITY
CHWR	CHILLED/HOT WATER RETURN	FLA	FULL LOAD AMPS	LWT	LEAVING WATER TEMPERATURE	RA	RETURN AIR
CHWS	CHILLED/HOT WATER SUPPLY	FLR	FLOOR	MA	MEDICAL AIR	RD	ROOF DRAIN
CKT	CIRCUIT	FOR	FUEL OIL RETURN	MAU	MAKE UP AIR UNIT	REV	REVISION
CO	CLEANOUT, CARBON MONOXIDE	FOS	FUEL OIL SUPPLY	MBH	1000 BTU PER HOUR	RG	RETURN GRILLE
CO2	CARBON DIOXIDE	FP	FIRE PROTECTION	MC	MECHANICAL CONTRACTOR	RH	RELATIVE HUMIDITY
CTR	COOLING TOWER RETURN	FPB	FAN POWERED TERMINAL UNIT	MCA	MINIMUM CIRCUIT AMPACITY	RHW	DOMESTIC RECIRCULATION HOT WATER
CTS	COOLING TOWER SUPPLY	FPVAV	FAN POWERED TERMINAL UNIT	MCC	MOTOR CONTROL CENTER	RL	REFRIGERANT LIQUID
CU	COPPER, CONDENSING UNIT	FS	FLOOR SINK	MD	MOTORIZED DAMPER	RLA	RUNNING LOAD AMPS
CUH	CABINET UNIT HEATER	G	GAS (NATURAL), GROUND	MDP	MAIN DISTRIBUTION PANEL	RPM	REVOLUTIONS PER MINUTE
CW	DOMESTIC COLD WATER	GCO	GRADE CLEANOUT	MFR	MANUFACTURER	RS	REFRIGERANT SUCTION
CWR	CHILLED WATER RETURN	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE	RTN	LOW PRESSURE CONDENSATE RETURN
CWS	CHILLED WATER SUPPLY	GND	GROUND	MLO	MAIN LUGS ONLY	RTU	ROOF TOP UNIT
DDC	DIRECT DIGITAL CONTROL	GPM	GALLONS PER MINUTE	MTD	MOUNTED	SA	SUPPLY AIR
DD	DECK DRAIN	HB	HOSE BIBB	MU	MAKE UP	SAN	SANITARY
DN	DOWN	HOA	HAND OFF AUTOMATIC				

SD	SUPPLY DIFFUSER, SMOKE DAMPER	SDCW	SOFT DOMESTIC COLD WATER
SDHW	SOFT DOMESTIC HOT WATER	SDRHW	SOFT DOMESTIC RECIRCULATION HOT WATER
SF	SQUARE FEET	SP	STATIC PRESSURE
SR	SUPPLY REGISTER	ST	STORM
ST/O	STORM OVERFLOW	STM	LOW PRESSURE STEAM
SWBD	SWITCHBOARD	TSTAT	THERMOSTAT
TU	TERMINAL UNIT	TW	TEMPERED WATER
UH	UNIT HEATER	UL	UNDERWRITERS LABORATORIES INC.
UNO	UNLESS NOTED OTHERWISE	UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VENT PIPE	VAC	MEDICAL VACUUM
VAV	VARIABLE AIR VOLUME	VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF	W	WIRE, WATT(S)
W/	WITH	W/O	WITHOUT
WB	WET BULB	WCO	WALL CLEANOUT
WH	WALL HYDRANT	WP	WEATHERPROOF
XFMR	TRANSFORMER	XP	EXPLOSION PROOF

MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI — RYAN JEROD DIEDIKER — NUMBER PE-2015008727 — PROFESSIONAL ENGINEER — 12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

ME101

MECH. AND ELEC. SYMBOLS AND ABBREVIATION

PROJECT NAME: 2314708 Liberty SD 2023 - Heritage Middle School Renovation
LAST CORRECTION BY: Booty ◆ DATE: Thursday, December 7, 2023 3:12:15 PM
PLOTTED BY: Booty ◆ DATE: Thursday, December 7, 2023 3:12:50 PM

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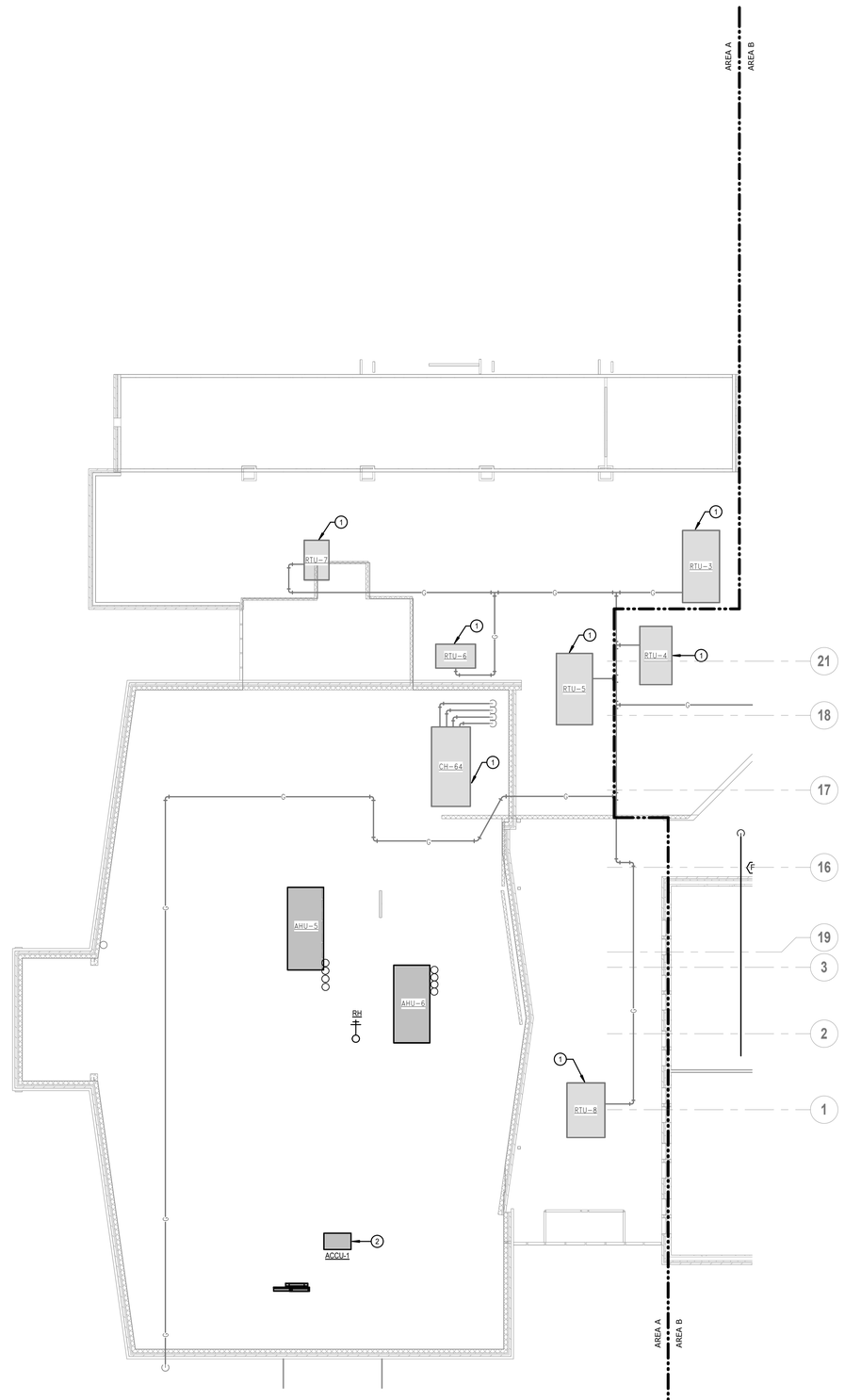

A1 | Scale 3/32" = 1'-0" | MECHANICAL & ELECTRICAL ROOF PLAN - AREA A

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION, AND ARE NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE NEW WORK INDICATED.
2. PATCH ROOFS, WALLS, AND CEILINGS WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE.
3. DISCONNECT AND REMOVE ALL PIPING, WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED. PROVIDE FOR THE CONTINUITY OF ALL REMAINING SERVICES, SYSTEMS, AND CIRCUITS.
4. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS. WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING, AND PIPING BEYOND THE FLOOR LINE OR WALL LINE TO FACILITATE RESTORATION OF FINISH.
5. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OR CIRCUITS WHICH ARE TO REMAIN IN USE, FURNISH AND INSTALL ALL REQUIRED WIRE, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
6. MAINTAIN CONTINUITY OF EXISTING SERVICES DURING CONSTRUCTION ACTIVITIES FOR ALL SPACES REMAINING IN USE BY THE OWNER.

PLAN NOTES:

1. NO WORK ASSOCIATED WITH EXISTING ROOF-TOP UNIT.
2. ROUTE REFRIGERANT PIPING FROM INDOOR UNIT TO OUTDOOR UNIT ON ROOF. SIZE PER MANUFACTURES INSTRUCTIONS.

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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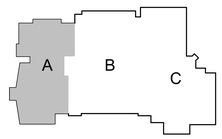
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

ME202A

MECHANICAL & ELECTRICAL ROOF PLAN - AREA A

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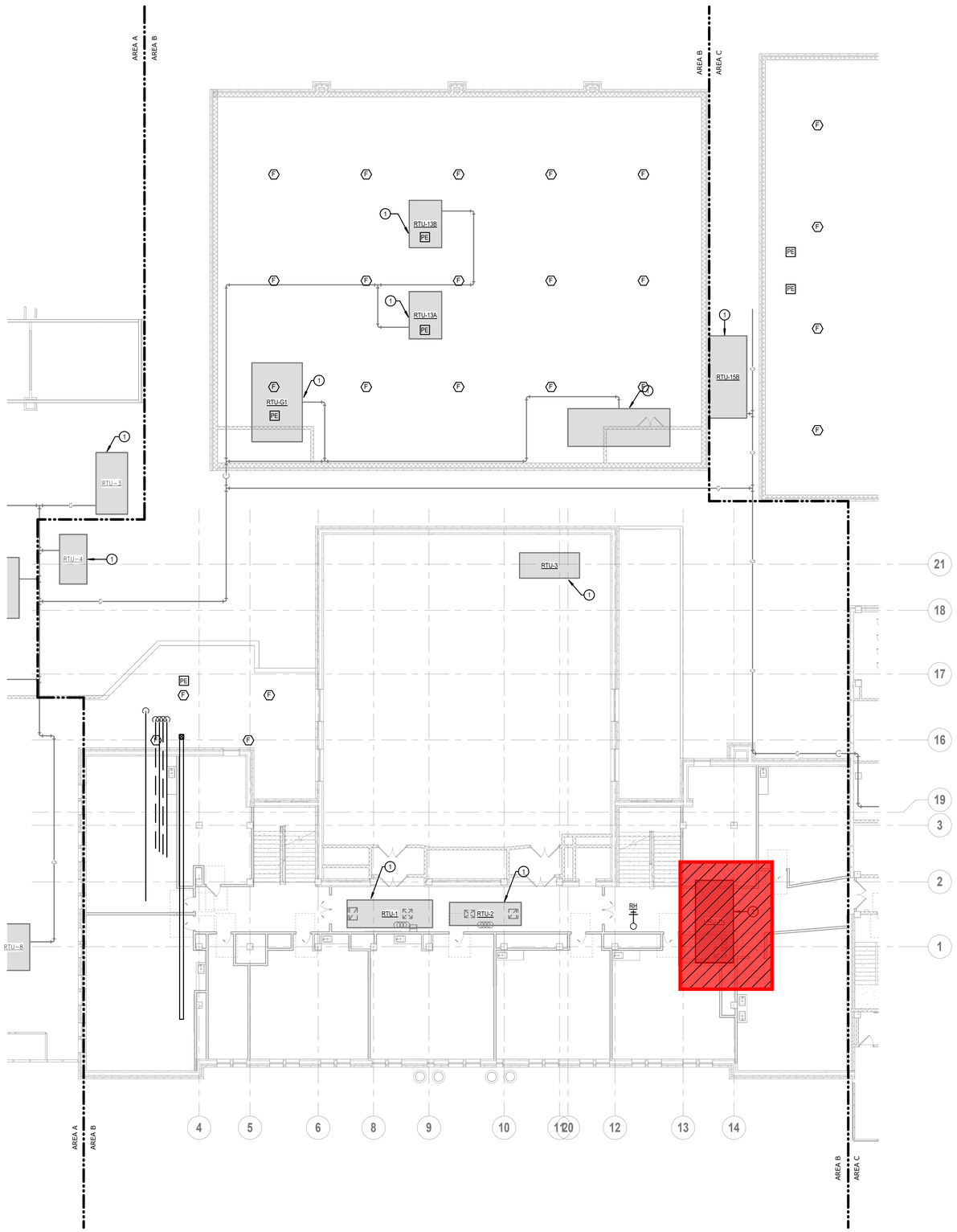

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON ME202A.

PLAN NOTES:

1. NO WORK ASSOCIATED WITH EXISTING ROOF-TOP UNIT.
2. FURNISH AND INSTALL UNIT AND ALL REQUIRED ACCESSORIES TO REPLACE EXISTING UNIT. FURNISH AND INSTALL DUCTWORK AS REQUIRED TO CONNECT NEW RTU TO EXISTING DUCTWORK. ALL DUCTWORK OUTDOORS (EXISTING AND NEW) SHALL BE PROVIDED WITH NEW INSULATION. FURNISH AND INSTALL NEW CONDENSATE DRAIN. FURNISH AND INSTALL CHILLED WATER AND HEATING HOT WATER PIPING AS REQUIRED TO CONNECT TO EXISTING PIPING. PROVIDE NEW INSULATION FOR ANY NEW PIPE TO MATCH EXISTING INSULATION TYPE, THICKNESS, AND WEATHER JACKETING. FURNISH AND INSTALL ALL FIELD PROVIDED DISCONNECTS AND CONVENIENCE RECEPTACLES. CONNECT TO ALL INTEGRAL COMPONENTS FOR DISCONNECTS AND CONVENIENCE RECEPTACLES PROVIDED INTEGRAL TO THE UNIT. REPLACE CIRCUIT BREAKER IN EXISTING ELECTRICAL PANEL AS NEEDED TO MEET REQUIREMENTS OF NEW RTU. FURNISH AND INSTALL DUCT SMOKE DETECTOR AND ALL REQUIRED WIRING FOR UNIT SHUT-DOWN.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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MHA Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008171
PROFESSIONAL ENGINEER
12/7/23

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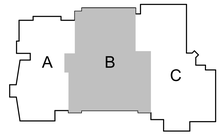
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

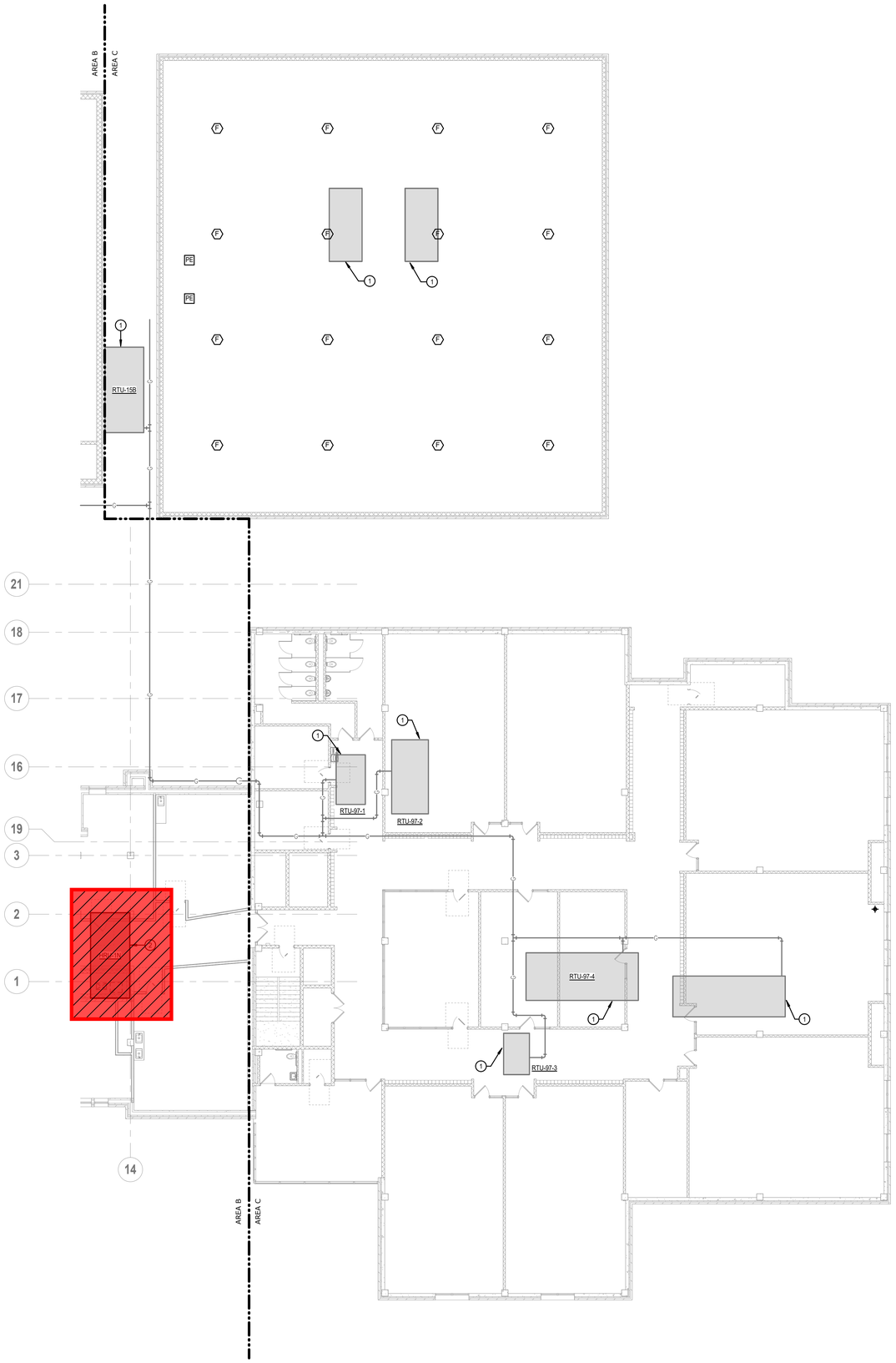
ME202B

A1 | Scale 3/32" = 1'-0" | MECHANICAL & ELECTRICAL ROOF PLAN - AREA B

PROJECT NORTH TRUE NORTH

MECHANICAL & ELECTRICAL ROOF PLAN - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL NOTES ON ME202A.

PLAN NOTES:

1. NO WORK ASSOCIATED WITH EXISTING ROOF-TOP UNIT.

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REGISTERED PROFESSIONAL ENGINEER
12/7/23

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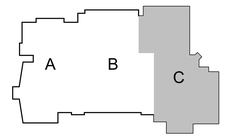
KEY PLAN



ME202C

A1 Scale 3/32" = 1'-0"

MECHANICAL & ELECTRICAL ROOF PLAN - AREA C

PROJECT NORTH TRUE NORTH

MECHANICAL & ELECTRICAL ROOF PLAN - AREA C

Please consider the environment before printing this.

PIPING MATERIAL SCHEDULE - PLUMBING

APPLICATION	SIZE	LOCATION	PIPE MATERIAL
DOMESTIC WATER	ALL SIZES	BELOW GROUND	SOFT COPPER TUBE, SEAMLESS, TYPE K
DOMESTIC WATER	2" AND SMALLER	ABOVE GROUND	HARD COPPER TUBE, ASTM B88, TYPE L; CAST OR WROUGHT COPPER SOLDER-JOINT FITTINGS; AND BRAZED JOINTS. OR CPVC PIPE; CPVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS. OR PEX-A PIPE AND FITTINGS (FOR USE INSIDE DWELLING UNITS ONLY; NOT INTENDED FOR BUILDING MAINS). PEX-B PIPE AND FITTINGS NOT ALLOWED.
DOMESTIC WATER	2-1/2" AND LARGER	ABOVE GROUND	HARD COPPER TUBE, ASTM B88, TYPE L; CAST OR WROUGHT COPPER SOLDER-JOINT FITTINGS; AND BRAZED JOINTS. OR CPVC PIPE; CPVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
DOMESTIC WATER	ALL SIZES	BELOW GROUND	SOFT COPPER TUBE, SEAMLESS, TYPE K
SOIL/WASTE/VENT	ALL SIZES	BELOW GROUND	HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY CAST-IRON HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS. OR SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
SOIL/WASTE/VENT	ALL SIZES	ABOVE GROUND	HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY CAST-IRON HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS. OR SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS. PVC SHALL NOT BE INSTALLED WITHIN RETURN AIR PLENUMS UNLESS FULLY ENCAPSULATED WITH PLENUM RATED MATERIAL.

PIPE INSULATION SCHEDULE - PLUMBING

SERVICE	PIPE SIZE	INSULATION
DOMESTIC COLD WATER	1/2" - 2"	1/2" FIBERGLASS, ASJ
	2-1/2" AND LARGER	1" FIBERGLASS, ASJ
DOMESTIC HOT WATER RECIRCULATING HOT WATER	ALL	1" FIBERGLASS, ASJ
EXPOSED FIXTURE WASTETRAPS AND DOMESTIC HOT WATER AT HANDICAPPED ACCESSIBLE SINKS AND LAVATORIES	ALL	TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER OVER 1/2" FIBERGLASS INSULATION

NOTE: FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE RIGID FOAM INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.

VAV TERMINAL SCHEDULE (HOT WATER HEAT)

DESIGNATION		VAV 6-01	VAV 6-02	VAV 6-03	VAV 6-04	VAV 6-05	VAV 6-06
ASSOCIATED AIR HANDLER		AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6
SERVICE		RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS
UNIT	MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
	MODEL NO.	SDV	SDV	SDV	SDV	SDV	SDV
	UNIT SIZE	12	12	14	12	12	12
	DESIGN CFM	1,200	1,200	1,500	1,200	1,200	1,500
	MIN. CFM	175	400	500	400	400	500
	HEATING CFM	325	600	750	600	600	750
COIL DATA	EAT (°F)	55	55	55	55	55	55
	LAT (°F)	75	80	100	80	80	100
	MBH	7.0	16.2	36.5	16.2	16.2	36.5
	GPM AT 160°F EWT 120°F LWT	2.0	3.5	4.0	3.5	3.5	3.5
ELEC. CONT. DATA	VOLTS/PHASE	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3
	PANEL & CIRCUIT	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3
	WIRE & CONDUIT	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3
	OVERCURRENT DEVICE	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3
	DISCONNECT	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL
	CONTROL SEQUENCE	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS
REFERENCE DRAWING/DETAIL		M101A/M201A	M101A/M201A	M101A/M201A	M102A/M202A	M102A/M202A	M102A/M202A
REMARKS		1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2

NOTES:
1: PROVIDE COIL ROWS AS NEEDED TO MEET THE SCHEDULED LOAD.
2: HOT WATER COILS TO BE SIZED FOR A 35% PROPYLENE GLYCOL SOLUTION
3: CONTROL CONTRACTOR TO PROVIDE 12V, 24V, OR 120V POWER AS REQUIRED FOR PROJECT. PANEL/CKT L2-41 SHALL BE

DUCTWORK SCHEDULE

SERVICE	DUCT MATERIAL	DUCT SHAPE	SMACNA REQUIREMENTS: CLASSIFICATION	SEAL CLASS	LEAKAGE CLASS	OTHER REQUIREMENTS
MEDIUM PRESSURE SUPPLY AIR DUCTS (TYPICAL APPLICATION - BETWEEN VAV AIRHANDLING UNITS AND TERMINAL UNITS)	GALVANIZED STEEL	RECTANGULAR	6" WG POSITIVE	A	3	INSULATED - SEE SCHEDULE
		(WITHIN 1ST 100 FEET OF AHU CONNECTION)				-
		ALL OTHER RECTANGULAR	4" WG POSITIVE	A	3	INSULATED - SEE SCHEDULE
						-
		ROUND	10" WG POSITIVE	A	3	INSULATED - SEE SCHEDULE
			SPIRAL SEAM			-
LOW PRESSURE SUPPLY AIR DUCTS CONNECTED DOWNSTREAM OF EQUIPMENT SUCH AS TERMINAL UNITS, FAN COIL UNITS, SINGLE ZONE AHUS, ENERGY RECOVERY UNITS ETC.	GALVANIZED STEEL	RECTANGULAR	2" WG POSITIVE	B	12	1", 3LB DENSITY LINER PAINTABLE WHERE EXPOSED INSULATED - SEE SCHEDULE
	GALVANIZED STEEL	ROUND/FLAT OVAL (EXPOSED)	4" WG POSITIVE SPIRAL SEAM/FLAT OVAL	B	3	PAINTABLE WHERE EXPOSED INSULATED - SEE SCHEDULE
RETURN AIR AND TRANSFER AIR DUCTWORK	GALVANIZED STEEL	RECTANGULAR	2" WG NEGATIVE	B	12	1", 3LB DENSITY LINER PAINTABLE WHERE EXPOSED
OUTSIDE AIR DUCTWORK	GALVANIZED STEEL	RECTANGULAR	2" WG NEGATIVE	B	12	INSULATED - SEE SCHEDULE
						-
GENERAL EXHAUST DUCTS TO THE INLET OF THE FAN	GALVANIZED STEEL	RECTANGULAR OR ROUND	2" WG NEGATIVE	B - RECTANGULAR A - ROUND	12 - RECTANGULAR 3 - ROUND	PAINTABLE WHERE EXPOSED

NOTES:
1: SEE DUCTWORK INSULATION SCHEDULE FOR REQUIREMENTS ON DUCT INSULATION

DUCTWORK INSULATION SCHEDULE

SERVICE	INSULATION
CASINGS, HOUSINGS AND PLENUMS	2", 6 LB. FIBERGLASS BOARD, GCVB
EXPOSED DUCTWORK (EXCLUDING MECHANICAL ROOMS) AS FOLLOWS: MEDIUM PRESSURE SUPPLY AIR (RECTANGULAR AND ROUND)	1-1/2", 3 LB. RIGID FIBERGLASS BOARD, VAPOR BARRIER FACED, WITH HEAVY DUTY PAINTABLE, ALL SERVICE JACKET.
EXPOSED DUCTWORK (WITHIN MECHANICAL ROOMS) AS FOLLOWS: OUTSIDE AIR (FROM OA PLENUM TO AHU) MEDIUM PRESSURE SUPPLY AIR IN MECHANICAL ROOMS	1-1/2", 1.5 LB. RIGID FIBERGLASS BLANKET, VAPOR BARRIER FACED, WITH HEAVY DUTY FOIL-SCRIM-KRAFT FACING.
CONCEALED DUCTWORK AS FOLLOWS: MEDIUM PRESSURE SUPPLY AIR (ROUND AND RECTANGULAR) ALL ROUND SUPPLY AIR AND UNLINED BRANCH TAKE-OFFS FOR ROUND DUCTS AND IN-LINE TRANSITIONS. EXHAUST AIR BETWEEN ISOLATION DAMPER AND PENTRATION OF BUILDING EXTERIOR OUTSIDE AIR MIXED AIR	1-1/2", 1.5 LB. RIGID FIBERGLASS BLANKET, VAPOR BARRIER FACED, WITH HEAVY DUTY FOIL-SCRIM-KRAFT FACING.

NOTES:
1: SEE DUCTWORK SCHEDULE FOR ITEMS THAT ARE TO BE LINED.
2: EXPOSED, LOW PRESSURE, ROUND AND FLAT OVAL SUPPLY AIR DUCTWORK IS NOT INSULATED.

PIPE INSULATION SCHEDULE - HVAC

SERVICE	PIPE SIZE	INSULATION
CONDENSATE DRAIN	1/2" - 2"	1/2" FIBERGLASS, ASJ
	2-1/2" AND LARGER	1" FIBERGLASS, ASJ
CHILLED WATER SUPPLY AND RETURN	2" AND SMALLER	1" FIBERGLASS, ASJ-VB
	2-1/2" - 10"	1-1/2" FIBERGLASS, ASJ-VB
	12" AND LARGER	2" FIBERGLASS, ASJ-VB
CONDENSER WATER SUPPLY AND RETURN	ALL SIZES	1" FIBERGLASS, ASJ-VB
HEATING HOT WATER SUPPLY AND RETURN	1" AND SMALLER	1" FIBERGLASS, ASJ
	1-1/4" THROUGH 2"	1-1/2" FIBERGLASS, ASJ
	2-1/2"AND LARGER	2" FIBERGLASS ASJ
REFRIGERANT SUCTION REFRIGERANT HOT GAS REFRIGERANT LIQUID	ALL	3/4" FLEXIBLE CLOSED CELL ELASTOMERIC

NOTES:
1: FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE RIGID FOAM INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.
2: FOR ALL EXPOSED PIPING PROVIDE PAINTABLE PVC JACKET. (EXCLUDES MECHANICAL SPACES)
3: PROVIDE ALUMINUM JACKET FOR ALL PIPING EXTERIOR TO BUILDING.

PIPING MATERIAL SCHEDULE - HVAC

SERVICE	PIPE SIZE	PIPE MATERIAL	FITTINGS
CONDENSATE DRAIN	1/2" - 1-1/2"	DRAWN-TEMPER COPPER TUBE, SEAMLESS, TYPE K OR L	WROUGHT COPPER SOLDER OR PRESSFIT
	2" AND LARGER	SCHEDULE 40, GRADE B, STEEL PIPE	SCHEDULE 40 STEEL, THREADED
CHILLED WATER SUPPLY AND RETURN	2" AND SMALLER	DRAWN-TEMPER COPPER TUBE, SEAMLESS, TYPE K OR L	WROUGHT COPPER SOLDER OR PRESSFIT
HEATING HOT WATER SUPPLY AND RETURN	2-1/2" AND LARGER	SCHEDULE 40, GRADE B, STEEL PIPE	GROOVED, MECHANICAL JOINT COUPLING AND FITTING OR WROUGHT-STEEL FITTINGS AND WELDED JOINTS
CHILLED WATER SUPPLY AND RETURN HEATING HOT WATER SUPPLY AND RETURN (UNDERGROUND)	ALL	CARRIER PIPE: SCHEDULE 40, GRADE B, STEEL PIPE INSULATION: POLYURETHANE FOAM, RIGID, CELLULAR, HIGH PRESSURE INJECTED, 2LB/CF DENSITY CASING: BLACK HDPE, 100 MIL THICKNESS SIZES UP TO 12", 125 MIL FOR SIZES GREATER THAN 12".	WROUGHT-STEEL FITTINGS AND WELDED JOINTS HEAT FUSION BUTT WELD
CHILLED WATER SUPPLY AND RETURN HEATING HOT WATER SUPPLY AND RETURN (UNDERGROUND)	ALL	CARRIER PIPE: HDPE, SDR 17.6, ASTM D-3350 INSULATION: POLYURETHANE FOAM, RIGID, CELLULAR, HIGH PRESSURE INJECTED, 2 LB/CF DENSITY CASING: BLACK HDPE, 100 MIL THICKNESS SIZES UP TO 12", 125 MIL FOR SIZES GREATER THAN 12"	HEAT FUSION BUTT WELD JOINTS FIELD INSULATED WITH URETHANE FOAM HEAT FUSION BUTT WELD
REFRIGERANT SUCTION REFRIGERANT HOT GAS REFRIGERANT LIQUID	ALL	COPPER, TYPE ACR OR TYPE L, DRAWN COPPER TUBING	WROUGHT COPPER FITTINGS WITH BRAZED OR SOLDERED JOINTS

VAV TERMINAL SCHEDULE (HOT WATER HEAT)

DESIGNATION		VAV 5-01	VAV 5-02	VAV 5-03	VAV 5-04	VAV 5-05	VAV 5-06	VAV 5-07	VAV 5-08	VAV 5-09	VAV 5-10	VAV 5-11	VAV 5-12	VAV 5-13	VAV 5-14	VAV 5-15
ASSOCIATED AIR HANDLER		AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5	AHU-5
SERVICE		RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS
UNIT	MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
	MODEL NO.	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV
	UNIT SIZE	12	10	7	10	7	12	5	10	12	10	7	10	7	12	10
	DESIGN CFM	1,200	900	350	900	350	1,200	175	900	1,200	900	350	900	510	1,200	900
	MIN. CFM	400	300	117	300	117	400	58	300	400	300	117	300	170	400	300
	HEATING CFM	600	450	175	450	175	600	87.5	450	600	450	175	450	255	600	450
COIL DATA	EAT (°F)	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
	LAT (°F)	100	100	80	80	85	100	90	100	100	90	80	90	86	100	100
	MBH	29.2	21.9	4.7	12.2	5.7	29.2	3.3	21.9	29.2	17.0	4.7	17.0	8.5	29.2	21.9
	GPM AT 160°F EWT 120°F LWT	3.5	3.5	1.0	3.0	1.5	3.5	1.0	3.5	3.5	1.5	1.0	1.5	1.5	3.5	3.5
ELEC. CONT. DATA	VOLTS/PHASE	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3
	PANEL & CIRCUIT	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3
	WIRE & CONDUIT	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3	NOTE 3
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	DISCONNECT	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL
	CONTROL SEQUENCE	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS
REFERENCE DRAWING/DETAIL		M101A/M201A	M101A/M201A	M101A/M201A	M101A/M201A	M101A/M201A	M101A/M201A	M101A/M201A	M101A/M201A	M102A/M202A	M102A/M202A	M102A/M202A	M102A/M202A	M102A/M202A	M102A/M202A	M102A/M202A
REMARKS		1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2	1 ,2

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project number 2314708

ME301

MECHANICAL AND ELECTRICAL - SCHEDULES

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PROJECT NAME: 2314708 Liberty SD 2023 - Heritage Middle School Renovation
LAST CORRECTION BY: KAUFFMAN, JAMES ◆ DATE: Thursday, December 7, 2023 3:13:20 PM
PLOTTED BY: KAUFFMAN, JAMES ◆ DATE: Tuesday, December 5, 2023 3:53:10 PM
Liberty Public Schools
Bldg Options
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FAN COIL UNIT SCHEDULE

DESIGNATION		FCU-2-01	FCU-2-02	FCU-2-03	FCU-2-04	FCU-2-05	FCU-2-06	FCU-2-07	FCU-2-08	FCU-2-09	FCU-2-10	FCU-2-11	FCU-2-12	FCU-2-13	FCU-2-14	FCU-2-15	FCU-2-16	FCU-2-17	FCU-2-18	FCU-2-19	FCU-2-20
LOCATION		CORRIDOR	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CORRIDOR	COLLABORATION	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CLASSROOM	CORRIDOR	CLASSROOM	CLASSROOM
UNIT	MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
	MODEL	FCH08	FCH10	FCH05	FCH08	FCH05	FCH08	FCH05	FCH08	FCH08	FCH10	FCH05	FCH08	FCH05	FCH10	FCH05	FCH10	FCH05	FCH08	FCH08	FCH05
	MOUNTING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING	ABOVE CEILING
	CONFIGURATION	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
	CFM	650	600	300	650	300	1,500	1,500	650	650	600	300	650	300	1,500	1,575	1,500	600	650	650	300
	OUTSIDE AIR CFM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	E.S.P. (IN. WG)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	MOTOR HP	0.25	(3/4 HP)	(1/4 HP)	0.25	(1/4 HP)	(3/4 HP)	(3/4 HP)	0.25	0.25	(1/2 HP)	(1/4 HP)	0.25	(1/4 HP)	(3/4 HP)	(3/4 HP)	(3/4 HP)	(1/2 HP)	0.25	0.25	(1/4 HP)
	BHP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ECM	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
COOLING COIL	TOTAL CAP. (MBH)	12	16	8	12	8	40	32	12	12	16	8	12	8	40	42	40	16	12	12	8
	SENS. CAP. (MBH)	10	13	7	10	7	32	26	10	10	13	7	10	7	32	34	32	13	10	10	7
	ENT. AIR TEMP.(DB/WB °F)	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60	75/60
	LVG. AIR TEMP. (°F)	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54
	GPM	2	3	1	2	1	6	5	2	2	3	1	2	1	6	6	6	3	2	2	1
	EWT (°F)	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
	LWT (°F)	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
	WATER PRESS. DROP (FT. H2O)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
HEATING COIL	MBH	25	34	17	25	17	67	51	25	25	34	17	25	17	67	64	67	34	25	25	17
	ENT. AIR TEMP. (°F)	4	75	75	4	75	75	75	4	4	75	75	4	75	75	75	75	75	4	4	75
	LVG. AIR TEMP. (°F)	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
	GPM	11	14	7	11	7	27	21	11	11	14	7	11	7	27	26	27	14	11	11	7
	EWT (°F)	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
	LWT (°F)	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
	WATER PRESS. DROP (FT. H2O)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ELECTRICAL DATA	VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1
	MCA	3.5	4.8	1.9	3.5	1.9	9.4	7.5	3.5	3.5	4.8	1.9	3.5	1.9	9.4	9.6	9.4	4.8	3.5	3.5	1.9
	MOCP	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A	15A
	PANEL & CIRCUIT	L2S-6(PART)	L2S-6(PART)	L2K-5(PART)	L2S-10	L2K-5(PART)	L2K-5	L2K-5	L2K-10	L2S-6(PART)	L2S-6(PART)	L2K-5(PART)	L2S-10	L2K-5(PART)	L2K-5	L2S-10	L2K-5	L2K-5(PART)	L2K-10	L2K-5(PART)	L2S-6(PART)
	WIRE & CONDUIT	(2)#12,#12G.,1/2"C.	(3)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(3)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(3)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(3)#12,#12G.,1/2"C.	(3)#12,#12G.,1/2"C.	(3)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.
	OVERCURRENT DEVICE	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2
	CONTROL SEQUENCE	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS	RE: DWGS
	COMBINATION STARTER	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL
REFERENCE DRAWING/DETAIL																					
REMARKS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTES:
1: PROVIDE UNIT WITH ECM MOTOR FOR VARIABLE SPEED FAN CONTROL AND FILTER RACK.
2: PROVIDE WITH OPTIONAL DISCONNECT SWITCH.
3: PROVIDE WITH 11% ETHYLENE GLYCOL.

SPLIT SYSTEM A/C UNIT SCHEDULE

INDOOR UNIT		
DESIGNATION		AC-1
UNIT DATA	MANUFACTURER	DAIKIN
	MODEL	FTXS30LVJU
	SERVICE	IT/ELEC
	CFM	705
	TOTAL COOLING CAP (MBH)	23.6 / 21.7
	TOTAL HEATING CAP @17°F (MBH)	-
	WEIGHT (LBS)	40
ELEC. DATA	VOLTAGE/PHASE	208/1
	PANEL AND CIRCUIT	NOTE 5
	WIRE AND CONDUIT	(3)#10,#10G.,1/2"C.
	OVERCURRENT DEVICE	NOTE 5
	DISCONNECT	NOTE 7
	CONTROLS	NOTE 6
REMARKS		1, 2,

OUTDOOR UNIT		
DESIGNATION		ACCU-1
UNIT DATA	MANUFACTURER	DAIKIN
	MODEL NO.	RKS30LVJU
	TOTAL COOLING CAP (MBH)	23.6 / 21.7
	TOTAL HEATING CAP (MBH)	-
	SEER	19.3
	AMBIENT AIR TEMP (°F.)	95 / -40
	WEIGHT (LBS)	180.0
ELEC DATA	VOLTAGE/PHASE	208/1
	PANEL AND CIRCUIT	L2-14,16
	WIRE AND CONDUIT	(2)#10,#10G.,1/2"C.
	MCA	19.5
	OVERCURRENT DEVICE	25A/2P
	DISCONNECT	NEMA 3R 30A-NF
VIBRATION ISOLATION		NEOPRENE
REMARKS		1, 2, 3

NOTES:
1: INSULATE ALL REFRIGERANT LINES
2: PROVIDE LOW AMBIENT KIT FOR RATED COOLING OPERATION DOWN TO -40°F.
3: PROVIDE QUICK SLING SUPPORT TO ELEVATE THE EQUIPMENT 18" ABOVE THE ROOF AND SECURE UNIT TO THE
4: PROVIDE CONTROL WIRING PER MANUFACTURERS RECOMMENDATIONS.
5: INDOOR UNIT CIRCUITED THROUGH OUTDOOR UNIT.
6: PROVIDE WIRED THERMOSTAT (WIRELESS, BATTERY NOT ALLOWED)
7: PROVIDE TOGGLE SWITCH ADJACENT TO UNIT.

HEAT RECOVERY UNIT SCHEDULE

DESIGNATION		HRU-1
LOCATION		ROOF
MANUFACTURER		SEMCO
MODEL NO.		ENDV-12
SYSTEM		AAON
WEIGHT (LBS)		1,000
SERVICE		CLASSROOMS
SUPPLY AIRFLOW	SUPPLY AIRFLOW (CFM)	6,150
	OUTSIDE AIR (CFM)	6,150
	MINIMUM OCC.OUTSIDE AIR	
	MINIMUM AIRFLOW (CFM)	
	EXTERNAL STATIC PRESSURE (IN. W.C.)	4.75
	TOTAL STATIC PRESSURE (IN. W.C.)	5.17
	QUANTITY	2
	FAN SPEED (RPM)	2381
	BRAKE HORSEPOWER (EACH) (SPL/VEX/H)	
	MOTOR HORSEPOWER (EACH) (SPL/VEX/H)	7.5/7.5
	DRIVE (EACH)	DIRECT
EXHAUST AIRFLOW	MAXIMUM FACE VELOCITY (FPM)	400
	ENT. AIR (DB/WB)	91 / 82
	LVG. AIR (DB/WB)	80 / 64
	MAX FINS/ MIN. ROWS	12/4
	TOTAL COOLING CAPACITY (MBH)	326
	SENSIBLE COOLING CAPACITY (MBH)	199
	GPM @ 44 EWT, 10 WTD	64.2
	AIR PRESSURE DROP (IN. W.C.)	0.15
	WATER PRESSURE DROP (FT) (MAX.)	15
EXHAUST AIRFLOW	MAXIMUM FACE VELOCITY (FPM)	500
	ENT. AIR (DB)	75
	LVG. AIR (DB)	55
	MAX FINS/ MIN. ROWS	12/4
	HEATING CAPACITY (MBH)	126
	GPM @ 180 EWT, 10 WTD	12
	AIR PRESSURE DROP (IN. W.C.)	0.15
	WATER PRESSURE DROP (FT) (MAX.)	15
FILTERS	TYPE	4" PLEATED
	MERV RATING	MERV 13
	MEAN ARD (IN. W.C.)	1.00
ELECTRIC HEAT	CAPACITY (MBH)	85.33
	ELETRIC SPACE HEATER (KW)	25
ELECTRICAL DATA	EAT, DB (SUPPLY/EXHAUST)	10/72
	EAT, WB (SUPPLY/EXHAUST)	8/62
	LAT, DB (SUPPLY/EXHAUST)	64/84
	LAT, WB (SUPPLY/EXHAUST)	57/74
	ARD (IN. W.C.) (SUPPLY/EXHAUST)	50.75
	WHEEL EFFECTIVENESS	80.70%
	VOLTAGE/PHASE	480/3
	MOP	32.0
	MOCP	35.0
	PANEL & CIRCUIT	
	WIRE & CONDUIT	
	OVERCURRENT DEVICE	
	COMBINATION STARTER	
	SPEED CONTROL	NOTE 8
VIBRATION ISOLATION		INTERNAL
CONTROL		RE: MMC DWGS
REMARKS		1, 2, 4, 5, 6, 7, 8, 9, 10

NOTES:
1. PROVIDE WITH ROOF CURB ADAPTOR AS REQUIRED.
2. INCLUDE 100% OUTDOOR AIR HOOD WITH TWO POSITION MOTORIZED DAMPER.
3. PROVIDE WITH STAINLESS STEEL DRAIN PAN.
4. FIRE ALARM CONTRACTOR TO FURNISH AND INSTALL SMOKE DETECTOR IN RETURN AIR DUCT FOR UNIT SHUT DOWN. CONNECT TO UNIT PER FIRE ALARM SYSTEM.
5. PROVIDE MANUAL RESET HIGH PRESSURE SWITCHES AND AUTO RESET LOW PRESSURE SWITCHES.
6. PROVIDE WITH ECM TYPE CONDENSER FAN MOTORS FOR HEAD PRESSURE CONTROL.
7. PROVIDE SUPPLY FANS WITH FIXED PITCH FAN ARRANGEMENT AND CONTROL FANS HAVE A VFD MOTOR FOR SPEED CONTROL THROUGH
8. PROVIDE FUSIBLE COMBINATION STARTER WITH LIMITING FUSES THAT REDUCE AVAILABLE FAULT CURRENT TO LESS THAN THE EQUIPMENT WITHSTAND RATING.
9. PROVIDE FREEZE CASE FOR GLY WATER, HOT WATER, COLD WATER JET RSW AND HOT WATER RETURN RWG.
10. CHILLED WATER AND HOT WATER COIL RATED WITH 11% ETHYLENE GLYCOL SOLUTION.

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER A-2015008477
REGISTERED PROFESSIONAL ENGINEER
12/7/23

The Professional Architect's seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any professional responsibility for such plan, drawings, or documents not exhibiting this seal.

JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

ME302

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
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project number 2314708

MECHANICAL AND ELECTRICAL - SCHEDULES

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Thursday, December 7, 2023 2:51:41 PM

PLUMBING FIXTURE SCHEDULE

MARK	MFGR./ MODEL	DESCRIPTION	FITTINGS		NOTE	PIPING CONNECTIONS			
			MANUFACTURER/MODEL	DESCRIPTION		CW	HW	SAN	VENT
WC-1	SLOAN ST-2029 CHURCH 9500C	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION. SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN REGAL 111 SFSM-1.6	FLUSH VALVE, CHROME PLATED METAL, WITH, 1" I.P.S. SCREWDRIVER BAK-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 GALLON FLUSH. PROVIDE WALL AND SPUD FLANGES.	—	1"	—	4"	2"
WC-2	SLOAN ST-2009 CHURCH 9500C	WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION. SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN REGAL 111 SFSM-1.6	EXPOSED WATER CLOSET BATTERY OPERATED ELECTRONIC FLUSH VALVE, CHROME PLATED METAL, WITH, 1" I.P.S. SCREWDRIVER BAK-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 GALLON FLUSH. PROVIDE WALL AND SPUD FLANGES.	—	1"	—	4"	2"
WC-3	SLOAN WETS-8029.8010-STG CHURCH 9500C	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, PRESSURE-ASSISTED TANK, PRESSURE-ASSISTED SIPHON JET FLUSH ACTION. SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	---	---	—	1"	—	4"	2"
U-1	SLOAN SU-1009 WADE	ADA COMPLIANT URINAL: WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 1.0 GALLON SIPHON JET FLUSHING ACTION. PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE. MOUNT URINAL RIM AT 17" AFF.	SLOAN ROYAL 186 SMO-0.25-DBP-OR	ADA COMPLIANT EXPOSED URINAL BATTERY OPERATED ELECTRONIC FLUSHOMETER WITH CROME PLATED METAL, 3/4" I.P.S. SCREWDRIVER BACKCHECK ANGLE STOP, VANDAL RESISTANT CAP, AND ADJUSTIBLE TAILPIECE FOR 3/4" TOP SPUD URINALS. PROVIDE WALL AND SPUD FLANGES.	—	3/4"	—	2"	2"
U-2	SLOAN SU-1009 WADE	WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 1.0 GALLON SIPHON JET FLUSHING ACTION. PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.	SLOAN ROYAL 186 SMO-0.25-DBP-OR	ADA COMPLIANT EXPOSED URINAL BATTERY OPERATED ELECTRONIC FLUSHOMETER WITH CROME PLATED METAL, 3/4" I.P.S. SCREWDRIVER BACKCHECK ANGLE STOP, VANDAL RESISTANT CAP, AND ADJUSTIBLE TAILPIECE FOR 3/4" TOP SPUD URINALS. PROVIDE WALL AND SPUD FLANGES.	—	3/4"	—	2"	2"
L-1	SLOAN SS-3103	ADA COMPLIANT WALL HUNG LAVATORY: WHITE VITREOUS CHINA, WITH SPLASHBACK AND FRONT OVERFLOW. SINGLE HOLE CENTERSET FAUCET.	CHICAGO FAUCETS 116.599.AB.1 WATTS MINIMIXING 2297321	ADA COMPLIANT BATTERY OPERATED DUAL BEAM INFRARED SENSOR, CHROME PLATED DIE CAST METAL HAND WASHING FAUCET. METAL GRID DRAIN ASSEMBLY. 0.5GPM FLOW RATE. POINT OF USE THERMOSTATIC MIXING VALVE. CHROME FINISH. 1/2" FITTINGS. WALL MOUNTING PLATE.	1,2,3,4,5	1/2"	1/2"	2"	2"
WF-1	SLOAN EW-73000	WASHFOUNTAIN: SLOANSTONE, WALL HUNG, 3-STATION, WITH INTEGRAL OVERFLOWS. VANDAL RESISTANT, ADA COMPLIANT. FINISH AS SPECIFIED BY ARCHITECT. REINFORCE WALL AS REQUIRED TO SUPPORT WEIGHT OF FIXTURE.	SLOAN EW-72000	SLOAN ELECTRONIC SENSOR OPERATED FAUCETS INTEGRAL TO FIXTURE. BELOW DECK THERMOSTATIC MIXING VALVE.	1,2,3,4,5	1/2"	1/2"	1-1/2"	1-1/2"
WF-2	SLOAN EW-72000	WASHFOUNTAIN: SLOANSTONE, WALL HUNG, 2-STATION, WITH INTEGRAL OVERFLOWS. VANDAL RESISTANT, ADA COMPLIANT. FINISH AS SPECIFIED BY ARCHITECT. REINFORCE WALL AS REQUIRED TO SUPPORT WEIGHT OF FIXTURE.	SLOAN EW-72000	SLOAN ELECTRONIC SENSOR OPERATED FAUCETS INTEGRAL TO FIXTURE. BELOW DECK THERMOSTATIC MIXING VALVE.	1,2,3,4,5	1/2"	1/2"	1-1/2"	1-1/2"
DF-1	ELKAY LZSTL8WSLK	ELECTRIC DRINKING FOUNTAIN: ADA COMPLIANT, BI-LEVEL BARRIER FREE ELECTRIC WATER COOLER, SENSOR OPERATED BOTTLE FILLER ABOVE ADA FOUNTAIN. FRONT PUSHBUTTON, NON-CORROSIVE STAINLESS STEEL BASIN.	----	---			1/2"	—	2"	1-1/2"
DF-2	ELKAY LZS8WSVRSK	ELECTRIC DRINKING FOUNTAIN: ADA COMPLIANT, SINGLE BARRIER FREE ELECTRIC WATER COOLER, SENSOR OPERATED BOTTLE FILLER ABOVE ADA FOUNTAIN. FRONT PUSHBUTTON, NON-CORROSIVE STAINLESS STEEL BASIN.	----	---			1/2"	—	2"	1-1/2"
S-1	ELKAY LRAD2219	SINGLE BOWL DROP IN SINK, 18 GAUAGE LUSTERTONE CLASSIC STAINLES STEEL, 22"X 19-1/2"X 7-5/8", CENTER DRAIN PLACEMENT.	CHICAGO FAUCET 895 WATTS MINIMIXING 2297321	DECK MOUNTED GOOSENECK FAUCET WITH VANDAL PROOF WRISTBLADE HANDLES. 4" FIXED CENTERS, 5" RIGID/SWING GOOSENECK SPOUT. 2.2GPM FLOW RATE. POINT OF USE THERMOSTATIC MIXING VALVE. CHROME FINISH. 1/2" FITTINGS. WALL MOUNTING PLATE.	3,4,5	1/2"	1/2"	1-1/2"	1-1/2"
S-2	ELKAY LRAD312250	ADA COMPLIANT SINK SINGLE BOWL, DROP IN ADA SINK, LUSTERTONE CLASSIC STAINLESS STEEL 31"X22"XS".	CHICAGO FAUCET 2301-ABCP WATTS MINIMIXING 2297321	DECK MOUNTED SINGLE HOLE SINGLE LEVER HOT AND COLD WATER MISING SINK FAUCET WITH SIDE SPRAY, 2.2GPM FLOW RATE, 3/8" CPRESSED FLEXIBLE STAINLESS STEEL HOSE, 1" CENTER TO CENTER INTEGRAL CAST BRASS SWINT SPOUT. POINT OF USE THERMOSTATIC MIXING VALVE. CHROME FINISH. 1/2" FITTINGS. WALL MOUNTING PLATE.	3,4,5	1/2"	1/2"	1-1/2"	1-1/2"
SH-1	--	----	AMERICAN STANDARD RELIANT 3 TU385507 AMERICAN STANDARD RU101SS WATTS MINIMIXING 2297321	SHOWER TRIM ONLY: METAL LEVER HANDLE, CERAMIC DISC CARTRIDGE, INGEGRATED CHECK VAVLES, ADJUSTABLE HOT LIMIT SAFETY STOP, 1.75 GPM, WATER SENSE LABELED. VALVE BODY: CAST BRASS, SCREWDRIVER STOPS. POINT OF USE THERMOSTATIC MIXING VALVE. CHROME FINISH. 1/2" FITTINGS. WALL MOUNTING PLATE.	--	1/2"	1/2"	1-1/2"	1-1/2"
JS-1	STERN WILLIAMS SB-800	PRECAST TERRAZO RECEPTOR, FLOOR MOUNTED, 24"X24" WITH BRASS DRAIN, STAINLESS STEEL STRAINER, WITHOUT TILING FLANGES.	STERN WILLIAMS T-15 VB	SERVICE SINK FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE, 3/4" HOSE THREAD SPOUT, AND POLISHED CROME FINISH.	--	1/2"	1/2"	3"	1-1/2"
RH-1	HOEPTNER EXECUTIVE #2131RE	NON-FREEZE ROOF HYDRANT WITH GALVANIZED CASING AND ADJUSTABLE FLOW WHEEL. LOCKABLE HANDLE. HYDRANT SHALL NOT REQUIRE DRAIN LINE OR WINTERIZING TO MAINTAIN FROST PROTECTION.	---	--	--	3/4"	---	---	---

NOTES:
1: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
2: PROVIDE CHROME PLATED BRASS P-TRAP.
3: PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
4: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS.
5: PROVIDE WITH ALL MOUNTING HARDWARE AS REQUIRED. FIXTURE STUDS AND NUTS SHALL BE STAINLESS STEEL.

AIR HANDLING UNIT SCHEDULE

DESIGNATION		AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6
	LOCATION	BASEMENT 1964 BUILDING	BASEMENT 1964 BUILDING	BASEMENT 1964 BUILDING	BASEMENT 1964 BUILDING	ROOF 1964 BUILDING	ROOF 1964 BUILDING
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
	MODEL NO.	BCVE36	BCVE24	BCVE24	BCVE54	CSAA025	CSAA017
	SYSTEM	CONST. VOL.	CONST. VOL.	CONST. VOL.	CONST. VOL.	VAV	VAV
	WEIGHT (LBS)	350	250	250	400	7,500	7,000
	SERVICE	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS
SUPPLY FAN	SUPPLY AIRFLOW (CFM)	1,000	700	700	1,650	12,000	8,000
	OUTSIDE AIR (CFM)	250	250	250	500	6,500	4,000
	MINIMUM CO2 OUTSIDE AIR	-	-	-	-	-	-
	MINIMUM AIRFLOW (CFM)	-	-	-	-	10,833	6,667
	EXTERNAL STATIC PRESSURE (IN. W.C.)	0.75	0.75	0.75	0.75	2.00	2.00
	TOTAL STATIC PRESSURE (IN. W.C.)	EXISTING	EXISTING	EXISTING	EXISTING	4.3	4.3
	QUANTITY	EXISTING	EXISTING	EXISTING	EXISTING	2	2
	FAN SPEED (RPM)	EXISTING	EXISTING	EXISTING	EXISTING	1800	2709
	BRAKE HORSEPOWER (EACH)	EXISTING	EXISTING	EXISTING	EXISTING	13.8	8.3
	MOTOR HORSEPOWER (EACH)	EXISTING	EXISTING	EXISTING	EXISTING	15	7.5
	DRIVE (EACH)	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
CHILLED WATER COIL	MAXIMUM FACE VELOCITY (FPM)	500	500	500	500	500	500
	ENT. AIR (DB/WB)	81 / 65	81 / 65	81 / 65	81 / 65	81 / 65	81 / 65
	LVG. AIR (DB/WB)	53 / 52	53 / 52	53 / 52	53 / 52	53 / 52	53 / 52
	MAX FINS/ MIN. ROWS	12/6	12/6	12/6	12/6	12/6	12/6
	TOTAL COOLING CAPACITY (MBH)	EXISTING	EXISTING	EXISTING	EXISTING	450	298
	SENSIBLE COOLING CAPACITY (MBH)	EXISTING	EXISTING	EXISTING	EXISTING	369	246
	GPM @ 42 EWT, 12 WTD	EXISTING	EXISTING	EXISTING	EXISTING	81	53
	AIR PRESSURE DROP (IN. W.C.)	EXISTING	EXISTING	EXISTING	EXISTING	0.76	0.76
	WATER PRESSURE DROP (FT.) (MAX.)	15	15	15	15	15	15
HOT WATER COIL	MAXIMUM FACE VELOCITY (FPM)	500	500	500	500	500	500
	MINIMUM HTG AIRFLOW (CFM)	500	350	350	825	6,000	4,000
	ENT. AIR (DB)	20	-1	-1	9	27	27
	LVG. AIR (DB)	55	55	55	55	55	55
	MAX FINS/ MIN. ROWS	12/1	12/1	12/1	12/1	12/1	12/1
	HEATING CAPACITY (MBH)	EXISTING	EXISTING	EXISTING	EXISTING	328	403
	GPM @ 160 EWT, 40 WTD	EXISTING	EXISTING	EXISTING	EXISTING	17	21
	AIR PRESSURE DROP (IN. W.C.)	0.15	0.15	0.15	0.15	0.15	0.15
	WATER PRESSURE DROP (FT.) (MAX.)	15	15	15	15	15	15
FILTER	TYPE	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED
	MERV RATING	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
	MEAN APD (IN. W.C.)	0.6	0.6	0.6	0.6	0.6	0.6
	TYPE	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED
	MERV RATING	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
	MEAN APD (IN. W.C.)	1.07	1.07	1.07	1.07	1.07	1.07
SUPPLY FAN ELEC. DATA	VOLTAGE/PHASE	230/1	230/1	230/1	230/1	480/3	480/3
	MCA	5.33	5.33	5.33	9.66	48.55	26.05
	MOCP	15	15	15	15	60	35
	PANEL & CIRCUIT	P2-9,11 (EXISTING)	P2-13,15 (EXISTING)	P2-8,10 (EXISTING)	P2-12,14 (EXISTING)		
	WIRE & CONDUIT	(2)#12,12G,1/2"C. (EXISTING)	(2)#12,12G,1/2"C. (EXISTING)	(2)#12,12G,1/2"C. (EXISTING)	(2)#12,12G,1/2"C. (EXISTING)		
	OVERCURRENT DEVICE	15A-2P (EXISTING)	15A-2P (EXISTING)	15A-2P (EXISTING)	15A-2P (EXISTING)		
	COMBINATION STARTER	EXISTING	EXISTING	EXISTING	EXISTING		
	SPEED CONTROL	NOTE 8	NOTE 8	NOTE 8	NOTE 8	NOTE 8	NOTE 8
LIGHTS ELEC. DATA	VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1	120/1
	FLA	--	--	--	--	10	10
	MOCP	20A	20A	20A	20A	20A	20A
	PANEL & CIRCUIT	P2-20 (PART)	P2-20 (PART)	P2-22 (PART)	P2-22 (PART)		
	WIRE & CONDUIT	(2)#12,#12G,1/2"C.	(2)#12,#12G,1/2"C.	(2)#12,#12G,1/2"C.	(2)#12,#12G,1/2"C.	(2)#12,#12G,1/2"C.	(2)#12,#12G,1/2"C.
	OVERCURRENT DEVICE	20A-1P	20A-1P	20A-1P	20A-1P	RE: DWGS	RE: DWGS
VIBRATION ISOLATION		-	-	-	-	-	-
CONTROL		RE: BMS DWGS	RE: BMS DWGS	RE: BMS DWGS	RE: BMS DWGS	RE: BMS DWGS	RE:BMS DWGS
REFERENCE DRAWING/DETAIL							
REMARKS		1, 2, 3, 4, 5, 6, 7, 8, 10	1, 2, 3, 4, 5, 6, 7, 8 ,10	1, 2, 3, 4, 5, 6, 7, 8 ,10	1, 2, 3, 4, 5, 6, 7, 8 ,10	1, 2, 3, 4, 5, 6, 7, 8 ,9, 10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

NOTES:
1: CONTROL CONTRACTOR TO PROVIDE OUTSIDE AIRFLOW STATIONS.
2: REFER TO AHU DRAWING SCHEMATICS FOR ADDITIONAL REQUIREMENTS.
3: PROVIDE FAN SECTION WITH PERFORATED ACOUSTICAL HOUSING.
4: FIRE ALARM CONTRACTOR TO FURNISH AND INSTALL SMOKE DETECTOR IN RETURN AIR INLET FOR UNIT SHUT DOWN. CONNECT TO UNIT BMS AND FIRE ALARM SYSTEM.
5: PROVIDE STAINLESS STEEL DRAIN PAN IN COOLING COIL SECTION.
6: PROVIDE AHU WITH MARINE LIGHTS WITHIN EACH ACCESSIBLE SECTION.
7: PROVIDE SUPPLY FANS WITH PIEZO RINGS FOR AIRFLOW MEASUREMENT AND CONTROL. FANS HAVE A VFD MOTOR FOR SPEED CONTROL THROUGH THE BMS.
8: PROVIDE FUSIBLE COMBINATION STARTER WITH LIMITING FUSES THAT REDUCE AVALABLE FAULT CURRENT TO LESS THAN THE EQUIPMENT WITHSTAND RATING.
9: PROVIDE PIPE CHASE FOR COLD WATER, HOT WATER, COLD WATER RETURN AND HOT WATER RETURN PIPING.
10: CHILLED WATER AND HOT WATER COIL SIZED WITH 35% PROPYLENE GLYCOL SOLUTION.

FAN SCHEDULE

DESIGNATION		EF-1
FAN TYPE		CEILING
SERVICE		IT
MANUFACTURER		COOK
MODEL		GC322
UNIT DATA	CFM	150
	STATIC PRESSURE	0.3
	FAN RPM	1590
	BRAKE HORSEPOWER	[39.0 W]
	MOTOR HORSEPOWER	---
	VOLTAGE/PHASE	120/1
	DRIVE	DIRECT
ELECT. DATA	PANEL & CIRCUIT	PP1-1(PART)
	WIRE & CONDUIT	(2)#12,#12G,1/2"C
	OVERCURRENT DEVICE	20A/1P
	DISCONNECT	INTEGRAL
	CONTROL	NOTE 2
REFERENCE DRAWING/DETAIL		
NOTES		1

NOTES:
1: PROVIDE WITH FAN SPEED CONTROLLER
2: PROVIDE WITH MAKE-ON-RISE THERMOSTAT.

AIR CURTAIN SCHEDULE

DESIGNATION		ACT-1	ACT-2
MANUFACTURER		BERNER	BERNER
MODEL		ALC08-2084A	ALC08-2084A
CFM		2,424	2,424
AIR VELOCITY (FPM)		3,000	3,000
HEATING CAPACITY (KW)		--	--
TEMPERATURE RISE (°F)		--	--
LENGTH (IN.)		84	84
MOTOR HORSEPOWER		2 @ 1/5	2 @ 1/5
WEIGHT (LBS)		100	100
VOLTS/PHASE		120/1	120/1
ELEC./ CONTROL DATA	MCA	6.8	6.8
	MOCP	15A	15A
	PANEL & CIRCUIT	L1-39	L1-41
	WIRE & CONDUIT	(2)#12,#12G.,1/2"C.	(2)#12,#12G.,1/2"C.
	OVERCURRENT DEVICE	20A-1P	20A-1P
	DISCONNECT	NOTE 1	NOTE 1
	CONTROL	SENSOR (INTEGRAL)	SENSOR (INTEGRAL)
REFERENCE DRAWING/DETAIL		M101A	M101A
REMARKS		2,3	2,3

NOTES:
1: FURNISH MOTOR CUT-OFF SWITCH MOUNTED ADJACENT TO THE EQUIPMENT TO DISCONNECT. COORDINATE INTEGRAL DISCONNECT SYSTEM WITH MANUFACTURER.
2: FURNISH WITH LOW- VOLTAGE MAGNETIC SWITCH MOUNTED OVER THE DOOR.
3: FURNISH WITH DARK BRONZE FINISH.

GLYCOL FEEDER

DESIGNATION		GF-1	GF-2
UNIT DATA	LOCATION	MECH RM	MECH RM
	MANUFACTURER	NEPTUNE	NEPTUNE
	SERVICE	HW	CW
	TYPE	AUTOMATIC	AUTOMATIC
	MODEL	G-50-1	G-50-1
	CAPACITY (GALLONS)	50	50
	FLOW RATE (GPM)	1.5	1.5
	PRESSURE (PSIG)	100	100
ELEC. DATA	VOLTAGE/PHASE	120/1	120/1
	PANEL & CIRCUIT	P2-21	P2-23
	WIRE & CONDUIT	(2)#12,#12G,1/2"C.	(2)#12,#12G.,1/2"C.
	OVERCURRENT DEVICE	20A-1P (NOTE 2)	20A-1P (NOTE 2)
	DISCONNECT	NOTE 3	NOTE 3
REFERENCE DRAWING/DETAIL			
REMARKS		1	1

NOTES
1: PROVIDE WITH DRY CONTACT FOR BMS LOW LEVEL INDICATION.
2: PROVIDE CIRCUIT BREAKER IN PANEL INDICATED. REFER TO SHEET E200A.
3: PROVIDE MOTOR RATED, SPST TOGGLE DISCONNECT SWITCH.

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	COLOR	REMARKS
SD-1	PRICE	SPD	SUPPLY	LAY-IN/SURFACE	NOTE 4,2	STEEL	WHITE	--
SD-2	PRICE	SDGE	SUPPLY	DUCT	NOTE 4,2	ALUMINUM	NOTE 1	8
SD-3	PRICE	CFPJS (2 SLOT)	SUPPLY	LAY-IN/SURFACE	NOTE 4,2	ALUMINUM	NOTE 1	3
SD-4	PRICE	CFPJS (2 SLOT)	SUPPLY	LAY-IN/SURFACE	---	ALUMINUM	NOTE 1	5
SD-5	PRICE	CFPJS (2 SLOT)	SUPPLY	LAY-IN/SURFACE	NOTE 4,2	ALUMINUM	NOTE 7	3
SD-6	PRICE	500	SUPPLY	SURFACE	NOTE 4,2	STEEL	NOTE 6	--
RG-1	PRICE	500	RETURN	LAY-IN/SURFACE	NOTE 4,2	STEEL	NOTE 1	--
RG-2	PRICE	500	RETURN	LAY-IN/SURFACE	NOTE 4,2	STEEL	NOTE 6	--
EG-1	PRICE	10A	EXHAUST	SURFACE	NOTE 4, 2	ALUMINUM	NOTE 1	--

NOTES:
1: FURNISH WITH WHITE FINISH FOR CEILING MOUNTED APPLICATIONS AND PAINTABLE FINISH FOR WALL MOUNTED APPLICATIONS.
2: FURNISH WITH VOLUME DAMPER AT THE DUCT TAP.
3: PREMANUFACTURERED PLENUM ACCEPTABLE WHERE SPACE ALLOWS.
4: FURNISH WITH REMOTE CABLE OPPERATED DAMPER ACTUATOR FOR INACCESSIBLE CEILING APPLICATIONS.
5: PROVIDE BLANK OFF PLATES.
6: FURNISH WITH PAINTABLE FINISH. COLOR BY ARCHITECT.
7: FURNISH WITH BORDER 66 AND COLOR CHART FOR SELECTION BY INTERIORS. MAY REQUIRE MULTIPLE COLORS.
8: FURNISH WITH AIR SCOOP.

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Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006417
ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

ME303

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

MECHANICAL AND ELECTRICAL - SCHEDULES

Please consider the environment before printing this.

2314708 Liberty SD 2023 = Heritage Middle School Renovations
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Last Saved: Thursday, December 7, 2023 2:13:03 PM
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XREF: C:\Users\SBI\Desktop\2314708 Liberty SD 2023_SBI_MEP_R23.dwg
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Jake Clark ◆ Thursday, December 7, 2023 2:13:03 PM
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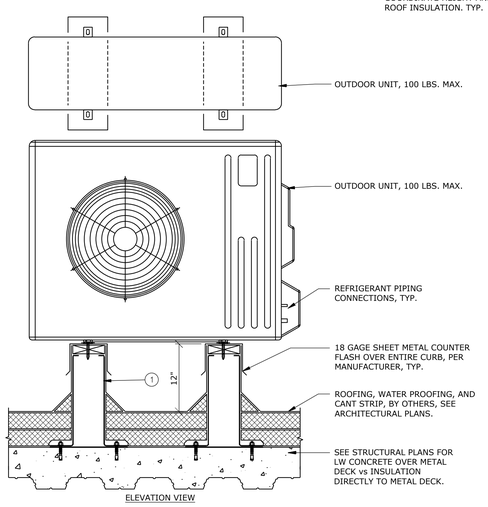
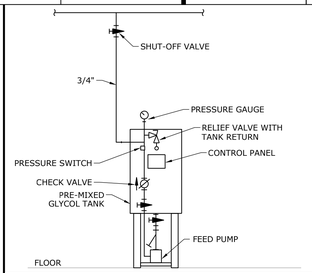
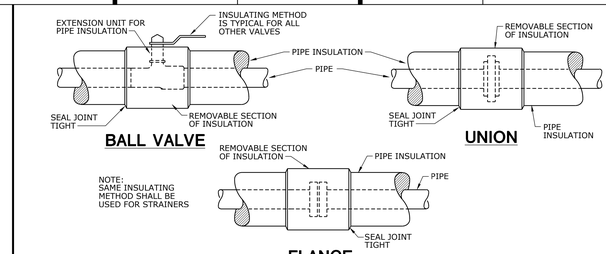


OUTDOOR SPLIT SYSTEM MOUNTING DETAIL
SCALE: NOT TO SCALE



GLYCOL FEEDER SYSTEM DIAGRAM
NOT TO SCALE



PIPE INSULATION DETAILS
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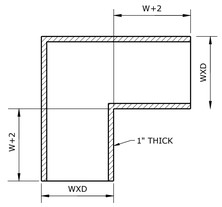
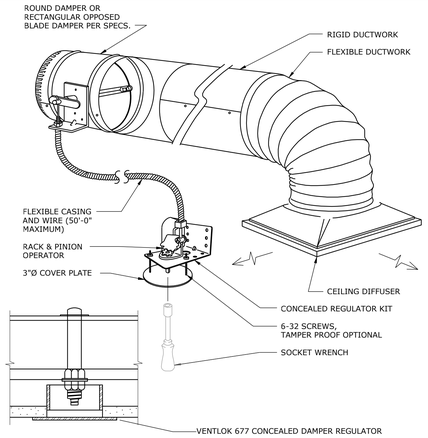


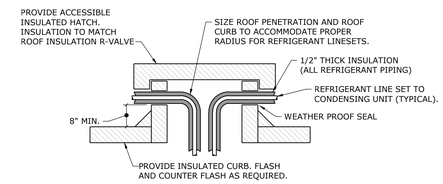
AIR TRANSFER BOOT DETAIL
NOT TO SCALE



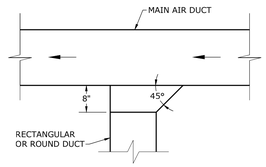
NOTE:

1) COORDINATE EXACT LOCATION OF CEILING MOUNTED CONCEALED REGULATOR WITH ARCHITECT PRIOR TO INSTALLATION.
2) THE YOUNG REGULATOR 270-301EZ BOWDEN CABLE CONTROL SYSTEM IS DESIGNED TO BE IMBEDDED IN THE CEILING FLUSH WITH THE FINISHED SURFACE. DAMPER POSITION INDICATOR VISIBLE UNDER COVER PLATE.
3) CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
4) LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
5) CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

DETAIL OF ADJUSTABLE DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS OR WALLS
NO SCALE



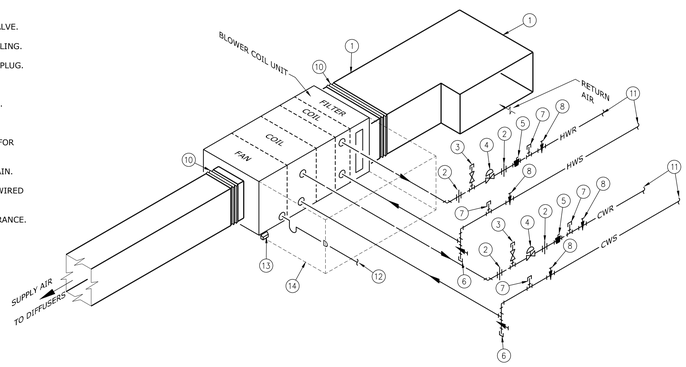
REFRIGERANT PIPING ROOF PENETRATION DETAIL
NOT TO SCALE



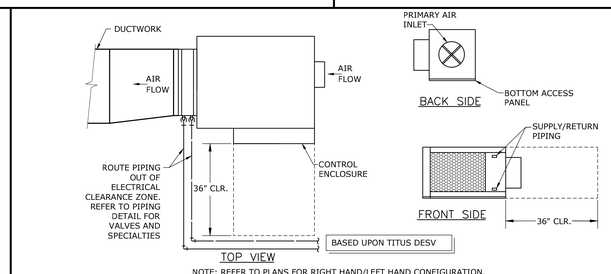
TYPICAL BRANCH DUCT TAKEOFF
NOT TO SCALE

DETAIL NOTES:

1. LINED RETURN AIR DUCT/BOOT.
2. UNION.
3. AIR VENT VALVE WITH PLUG.
4. 2-WAY AUTO CONTROL VALVE.
5. MANUAL CALIBRATED BALANCING VALVE.
6. 3/4" DRAIN VALVE WITH HOSE COUPLING.
7. TEMPERATURE AND PRESSURE TEST PLUG.
8. BALL VALVE.
9. AUXILIARY SHEET METAL DRAIN PAN.
10. FLEXIBLE BOOT CONNECTION.
11. REFER TO HYDRONIC PIPING PLANS FOR PIPE SIZES.
12. CONDENSATE DRAIN. ROUTE TO DRAIN.
13. WATER DETECTION SENSOR. HARD WIRED TO UNIT SHUT-OFF CONTROL.
14. 36" ELECTRICAL AND SERVICE CLEARANCE.

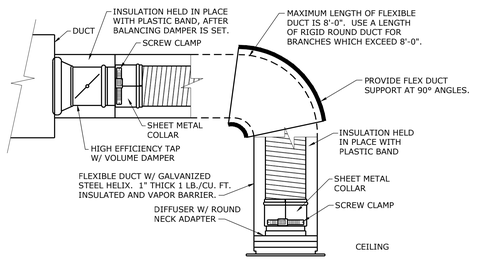


HORIZONTAL BLOWER COIL UNIT DETAIL
NOT TO SCALE

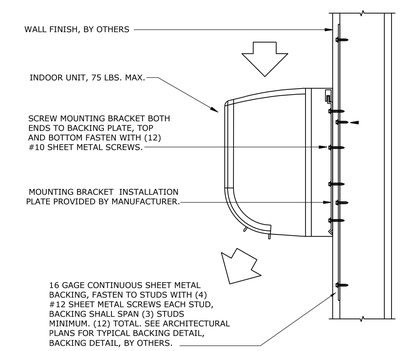


NOTE: REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION.

HOT WATER VAV TERMINAL
NO SCALE (HOT WATER)



FLEXIBLE BRANCH DUCT DETAIL
NOT TO SCALE



NOTES:

SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR COMPLETE MOUNTING DETAILS.

INDOOR SPLIT SYSTEM MOUNTING DETAIL
SCALE: SIU-2 - N.T.S.

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI — RYAN JERDO DIEDIKER — NUMBER PE-2015046171 — PROFESSIONAL ENGINEER — 12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

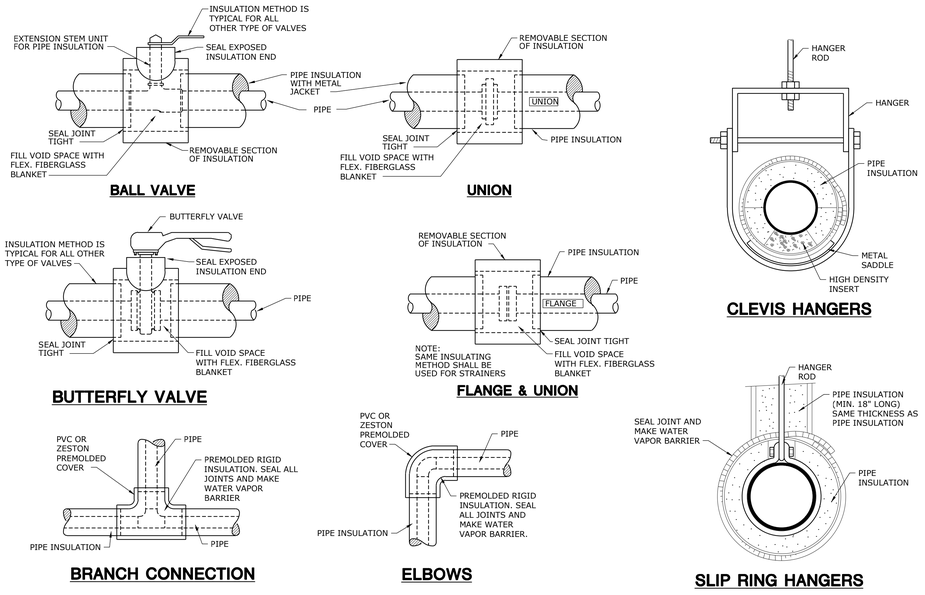
smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

ME401

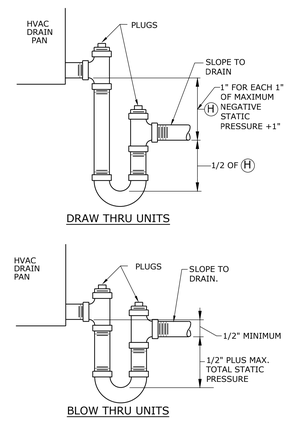
MECHANICAL AND ELECTRICAL - DETAILS

PROJECT NAME: 2314708 Liberty SD 2023 = Heritage Middle School Renovation
XREF: C:\Users\sboucher\Documents\2314708_Heritage_Middle_School_Renovation_central_MEP_R23_sboucher.rvt
LAST CORRECTION BY ◆ DATE ◆ TIME: Thursday, December 7, 2023 6:56:35 AM
PLOTTED BY ◆ DATE ◆ TIME: Booby Barnes Thursday, December 7, 2023 3:14:13 PM

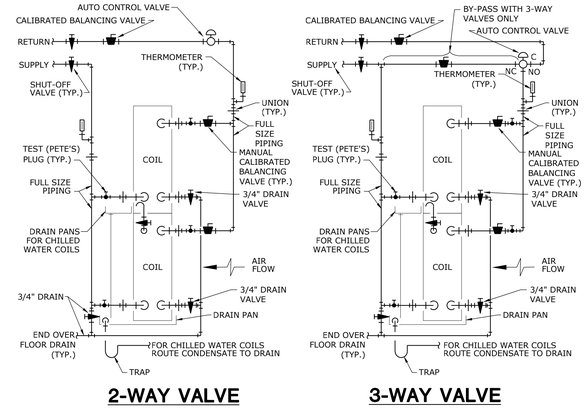
Please consider the environment before printing this.



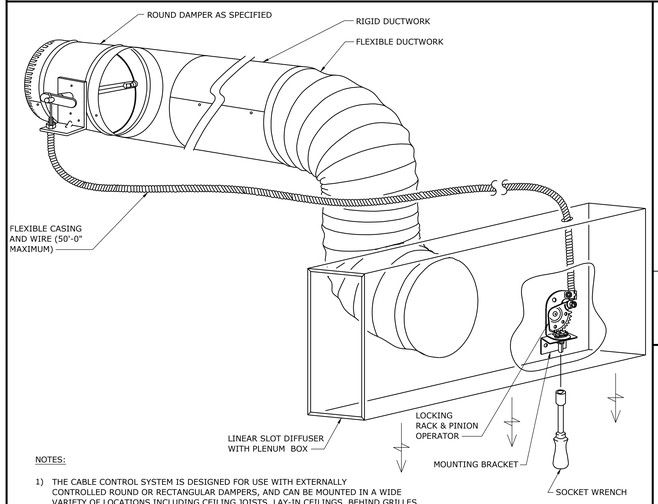
PIPE INSULATION DETAILS
NOT TO SCALE



CONDENSATE TRAP DRAIN DETAIL
NOT TO SCALE



AHU COIL PIPING DIAGRAM
NO SCALE



NOTES:

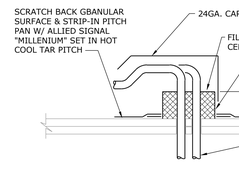
1) THE CABLE CONTROL SYSTEM IS DESIGNED FOR USE WITH EXTERNALLY CONTROLLED ROUND OR RECTANGULAR DAMPERS, AND CAN BE MOUNTED IN A WIDE VARIETY OF LOCATIONS INCLUDING CEILING JOISTS, LAY-IN CEILINGS, BEHIND GRILLES, ON OR INSIDE OTHER VARIOUS TYPES OF DIFFUSERS, ETC.

2) CABLE SHALL CONSIST OF STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.

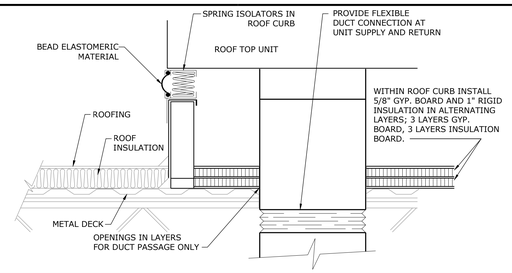
3) LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.

4) CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

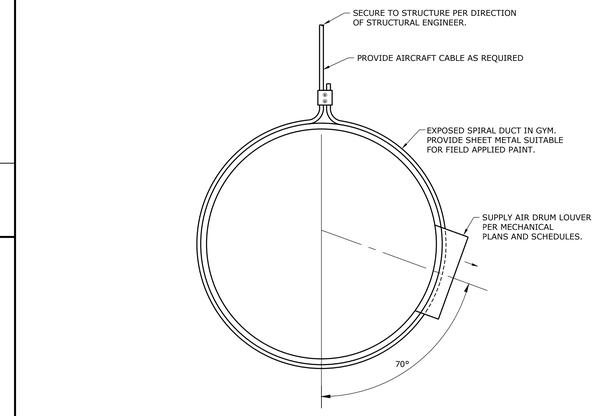
REMOTE DAMPER OPERATOR FOR LINEAR DIFFUSER DETAIL
NOT TO SCALE



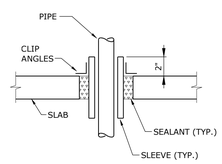
PITCH POCKET DETAIL FOR CONDENSING UNITS
NOT TO SCALE 232300-02



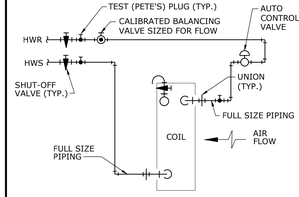
SECTION THRU ROOF CURB
NO SCALE



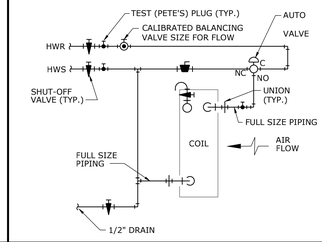
EXPOSED ROUND DUCT WITH DIFFUSERS
NOT TO SCALE



PIPE THROUGH FLOOR DETAIL
NOT TO SCALE



TERMINAL UNIT HOT WATER COIL PIPING DIAGRAM - 2-WAY VALVE
NO SCALE



TERMINAL UNIT HOT WATER COIL PIPING DIAGRAM - 3-WAY VALVE
NO SCALE

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015040
PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
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CHECKED BY: RJD
DATE: 12.07.2023

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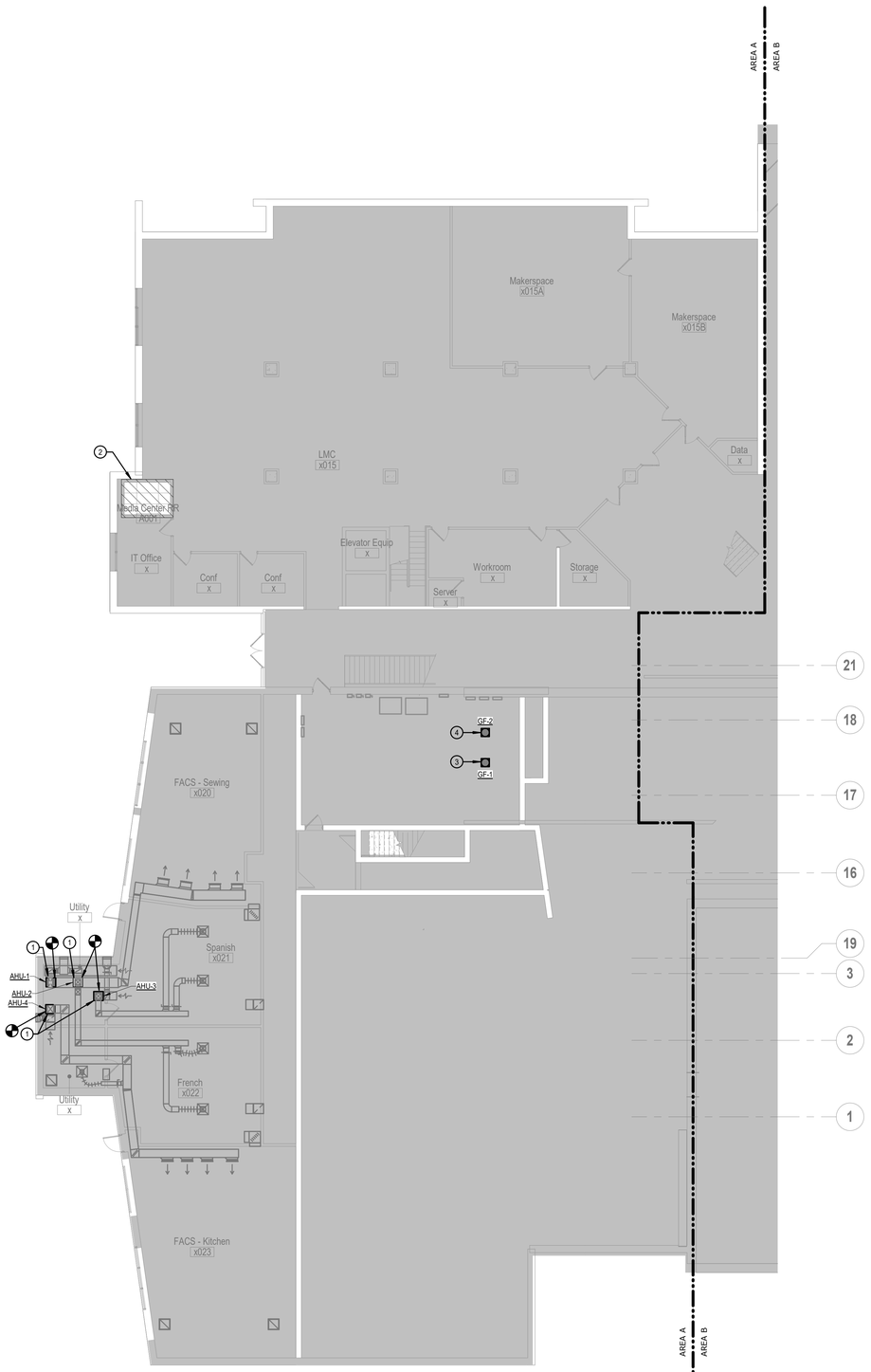
project number 2314708

ME402

MECHANICAL AND ELECTRICAL - DETAILS

Please consider the environment before printing this.

PROJECT NAME: 2314708 Liberty, SD 2023 - Heritage Middle School Renovation
LOCATION: K:\2314\2314708\Design Dev\Drawings\Arch\2314708 ME402.dwg
LAST CORRECTION BY: Landon Booty ◆ DATE & TIME: Wednesday, December 6, 2023 2:19:58 PM
PLOTTED BY: Landon Booty ◆ DATE & TIME: Thursday, December 7, 2023 3:14:44 PM



SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
3. COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL PRIOR TO CUTTING FLOORS OR BEARING WALLS.
4. AVOID ROUTING ANY PIPING THROUGH IT ROOMS OR ELECTRIC ROOMS. IN THE EVENT IT IS ABSOLUTELY NECESSARY, COORDINATE THE EXACT LOCATION SUCH THAT IT IS NOT DIRECTLY ABOVE ANY PANELS OR EQUIPMENT.
5. WALL MOUNTED DEVICES SUCH AS THERMOSTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND PRESSURE SENSORS ARE SHOWN ON PLANS FOR CLARITY AND GENERAL REFERENCE OF LOCATIONS. LOCATIONS SHOW ARE NOT TO BE CONSIDERED THE EXACT MOUNTING LOCATION. COORDINATE THE INSTALLATION OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND OTHER TRADES WALL MOUNTED DEVICES. GROUP THE INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH MILL WORK, TELEVISIONS, FURNITURE, TEACHING BOARDS, AND OTHER SIMILAR OBSTRUCTIONS.
6. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
7. FURNISH ALL EXPOSED DUCTWORK IN FINISHED SPACES WITH PAINTABLE FINISH.
8. DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.
9. RETURN GRILLES ARE 22"X22" RG-1 OR 22"X10" RG-1 UNLESS NOTED OTHERWISE.
10. PROVIDE "L" SHAPED RETURN AIR TRANSFER BOOTS WHERE WALLS EXTEND TO DECK FOR RETURN AIR PATH. SIZE FOR 800 FPM.
11. HWS, HWR BRANCH PIPING TO INDIVIDUAL TERMINAL UNITS ARE 3/4" UNLESS NOTED OTHERWISE.

PLAN NOTES:

(1) CONNECT NEW AHU TO EXISTING DUCTWORK. PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

(2) INSTALL NEW DIFFUSERS/GRILLES IN THE SAME LOCATION AS THE EXISTING. BALANCE DIFFUSERS/GRILLES TO THE EXISTING CFM. FILED VERIFY EXACT LOCATION AND SIZE. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

(3) INSTALL GLYCOL FEEDER. TIE INTO EXISTING HOT WATER HYDRONIC SYSTEM. REFER TO GLYCOL FEEDER SYSTEM DETAIL. FIELD VERIFY EXACT LOCATION OF FEEDER. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

(4) INSTALL GLYCOL FEEDER. TIE INTO EXISTING CHILLED WATER HYDRONIC SYSTEM. REFER TO GLYCOL FEEDER SYSTEM DETAIL. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

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Structure # 2006031333

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Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006871
ENGINEER
PROFESSIONAL
12/7/23

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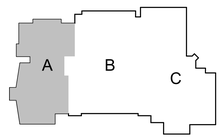
JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

KEY PLAN



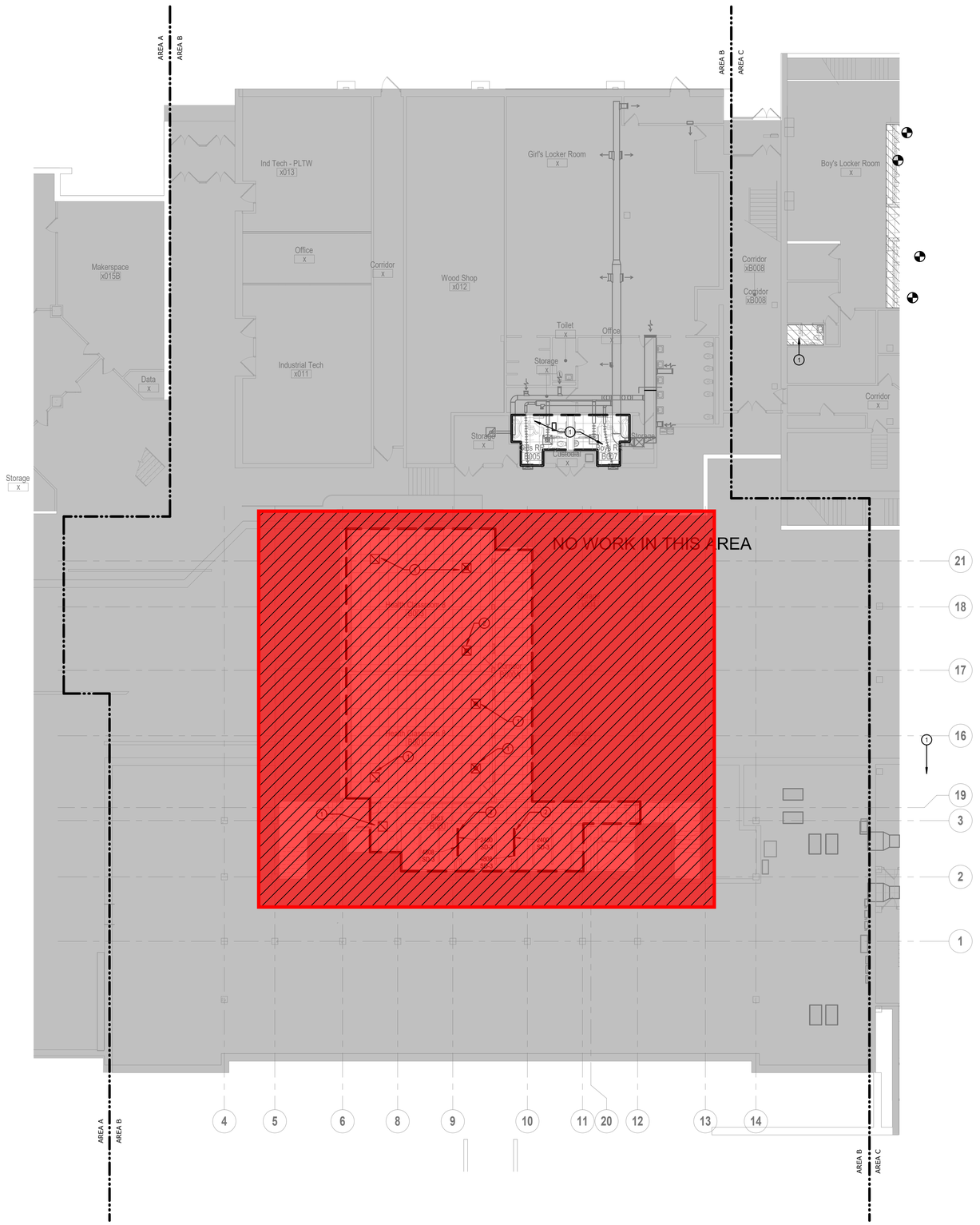
M100A

A1 | Scale 3/32" = 1'-0" | HVAC PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

HVAC PLAN - LEVEL 0 - AREA A

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | HVAC PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1. INSTALL NEW DIFFUSERS/GRILLES IN THE SAME LOCATION AS THE EXISTING UNLESS NOTED OTHERWISE. BALANCE DIFFUSERS/GRILLE TO THE EXISTING CFM. FIELD VERIFY EXACT LOCATION AND SIZE, PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
2. PROVIDE CONTINUOUS LENGTH LINEAR DIFFUSER WITH SUPPLY PLENUMS AND BLANK OFF PLATES AT LOCATIONS TAGGED.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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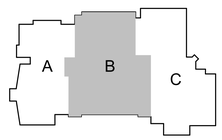
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

M100B

HVAC PLAN - LEVEL 0 - AREA B

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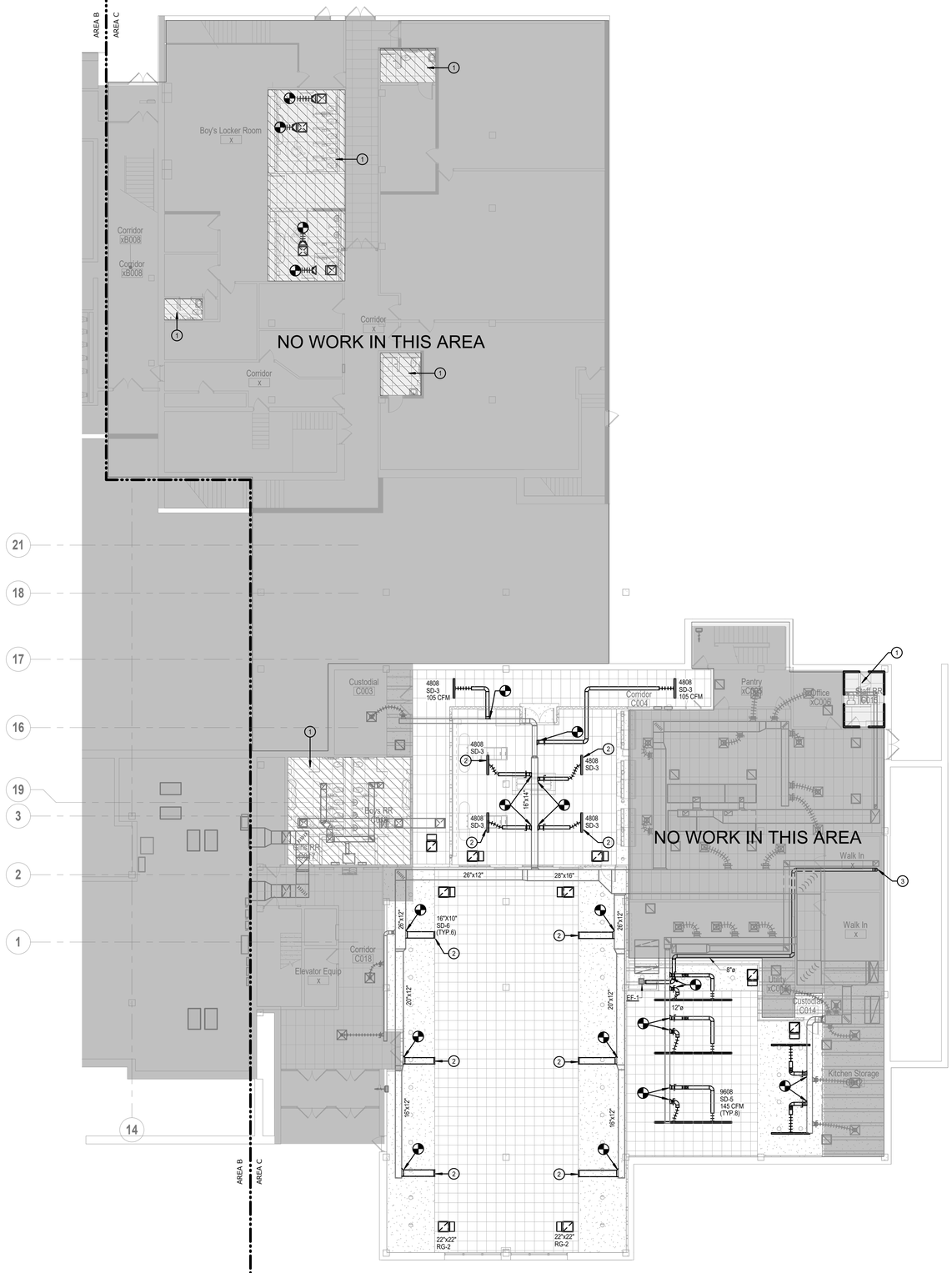

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1. INSTALL NEW DIFFUSERS/GRILLES IN THE SAME LOCATION AS THE EXISTING UNLESS OTHERWISE NOTED. BALANCE DIFFUSERS/GRILLES TO THE EXISTING CFM. FIELD VERIFY EXACT LOCATION AND SIZE, PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
2. BALANCE DIFFUSERS TO EXISTING CFM
3. 8" ROUND EXHAUST DUCT UP THRU CHASE UP TO RAIN CAP ON ROOF. FIELD VERIFY EXACT LOCATION OF CHASE AND DUCT ROUTING.

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REVISIONS:

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015008171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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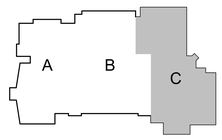
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

M100C

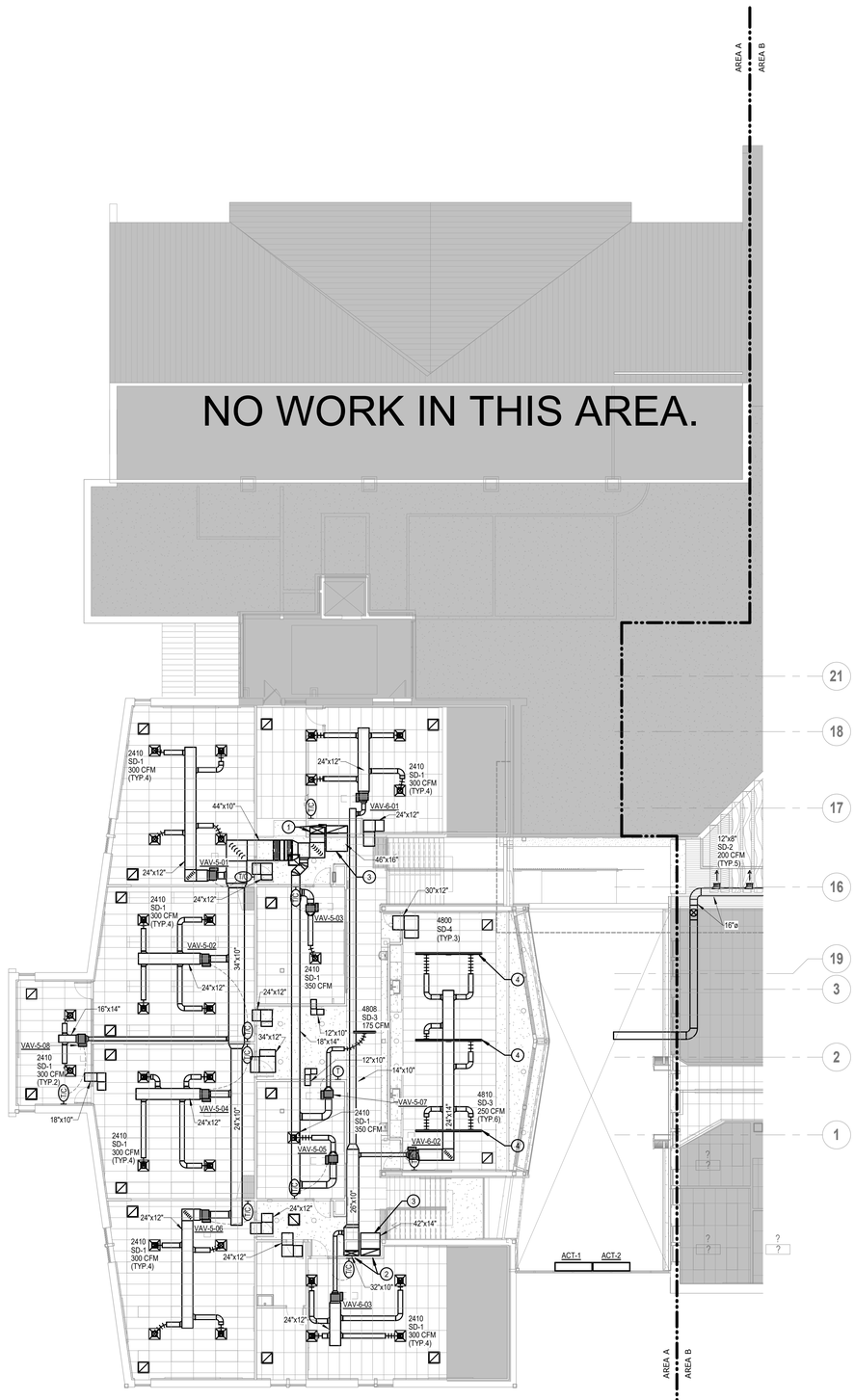
A1 Scale 3/32" = 1'-0"

HVAC PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

HVAC PLAN - LEVEL 0 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1. 32"x14" SA AND 46"x16" RA UP THRU CHASE.
2. 32"x10" SA AND 42"x14" RA UP THRU CHASE.
3. RETURN AIR DUCT OPEN TO PLENUM.
4. PROVIDE CONTINUOUS LENGTH LINEAR DIFFUSER WITH SUPPLY PLENUMS AND BLANK OFF PLATES AT LOCATIONS TAGGED.

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Liberty Public Schools

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDRICH
NUMBER PE-2015008171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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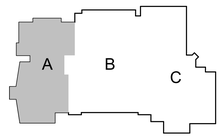
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

M101A

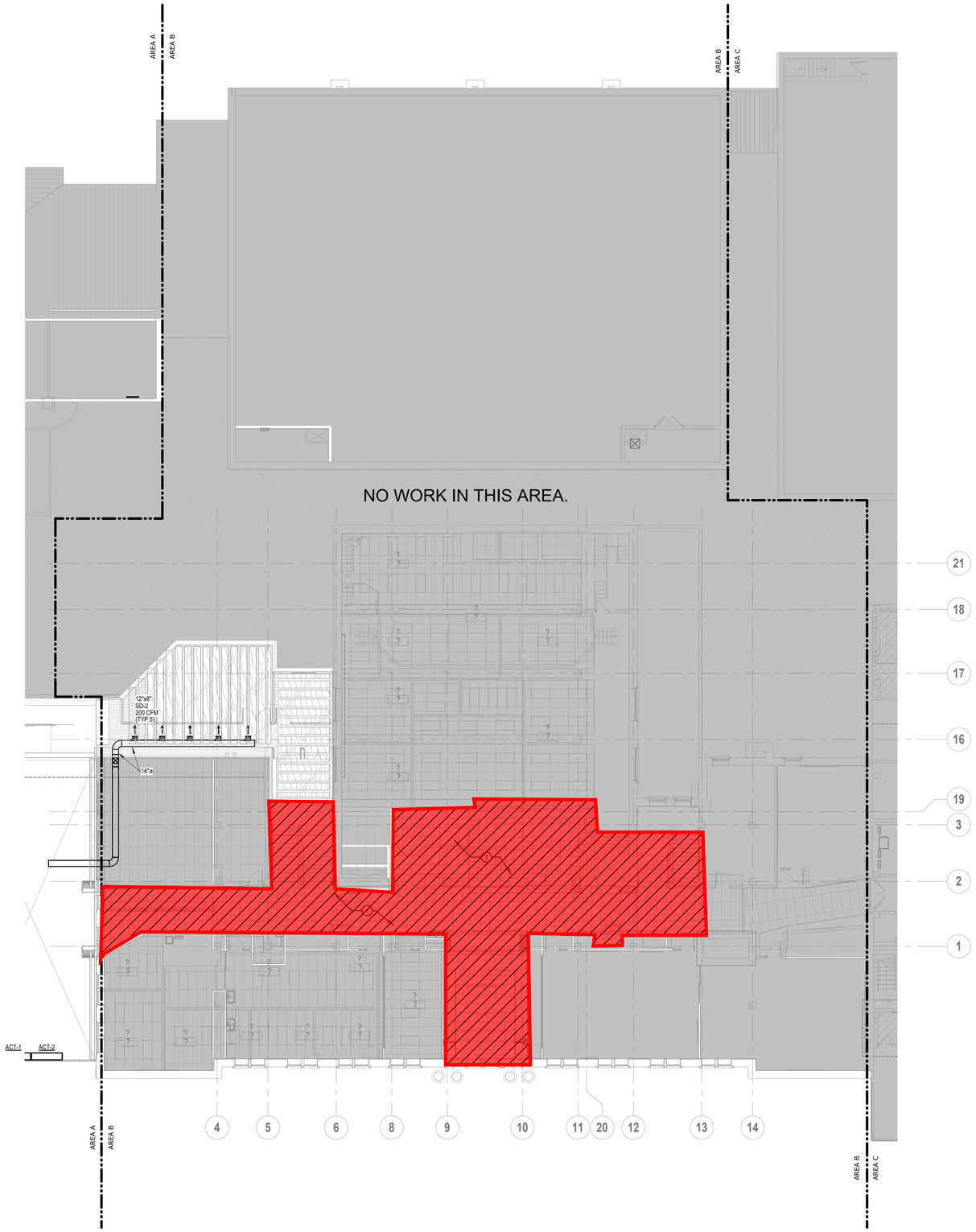
A1 Scale 3/32" = 1'-0"

HVAC PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

HVAC PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M001A.

PLAN NOTES:

(1) INSTALL NEW DIFFUSERS/GRILLES IN THE SAME LOCATION AS THE EXISTING. BALANCE DIFFUSERS/GRILLE TO THE EXISTING CFM. FIELD VERIFY EXACT LOCATION AND SIZE, PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006871
PROFESSIONAL ENGINEER
12/7/23

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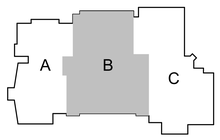
KEY PLAN



M101B

A1 Scale 3/32" = 1'-0"

HVAC PLAN - LEVEL 1 - AREA B

PROJECT NORTH TRUE NORTH

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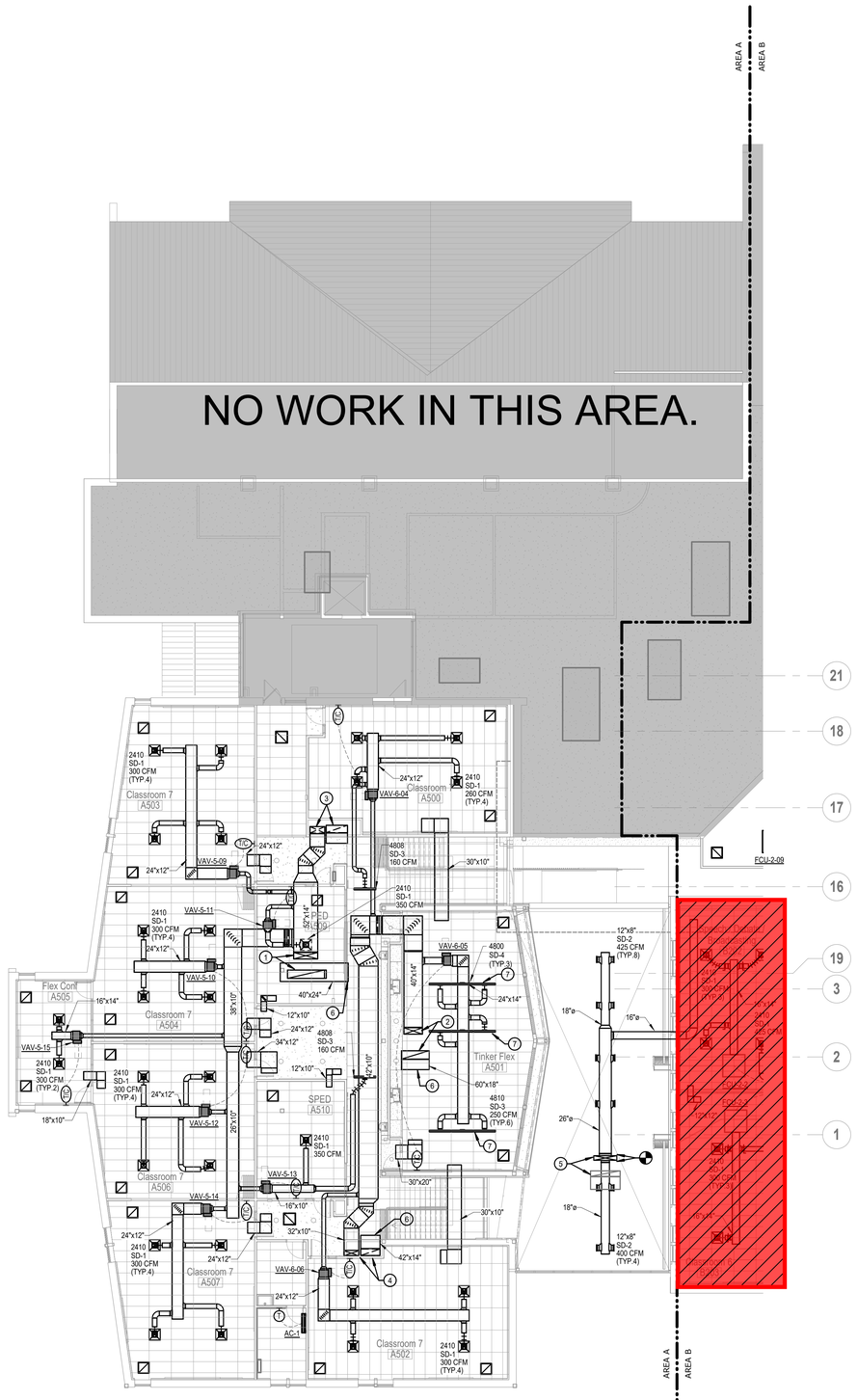

A1 | Scale 3/32" = 1'-0" | HVAC PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1. 48"X18" SA AND 80"X18" RA UP TO ROOT TOP UNIT. TRANSITION AS REQUIRED.
2. 36"X16" SA AND 60"X18" RA UP TO ROOT TOP UNIT. TRANSITION AS REQUIRED.
3. 32"X14" SA AND 46"X16" RA UP THRU CHASE.
4. 32"X10" SA AND 42"X14" RA UP THRU CHASE.
5. EXISTING DUCTWORK TO REMAIN.
6. RETURN AIR DUCT OPEN TO PLENUM.
7. PROVIDE CONTINUOUS LENGTH LINEAR DIFFUSER WITH SUPPLY PLENUMS AND BLANK OFF PLATES AT LOCATIONS TAGGED.

= Phase 2 Scope of Work (Not included in this Bid Package)

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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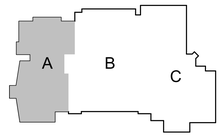
KEY PLAN



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M102A

HVAC PLAN - LEVEL 2 - AREA A

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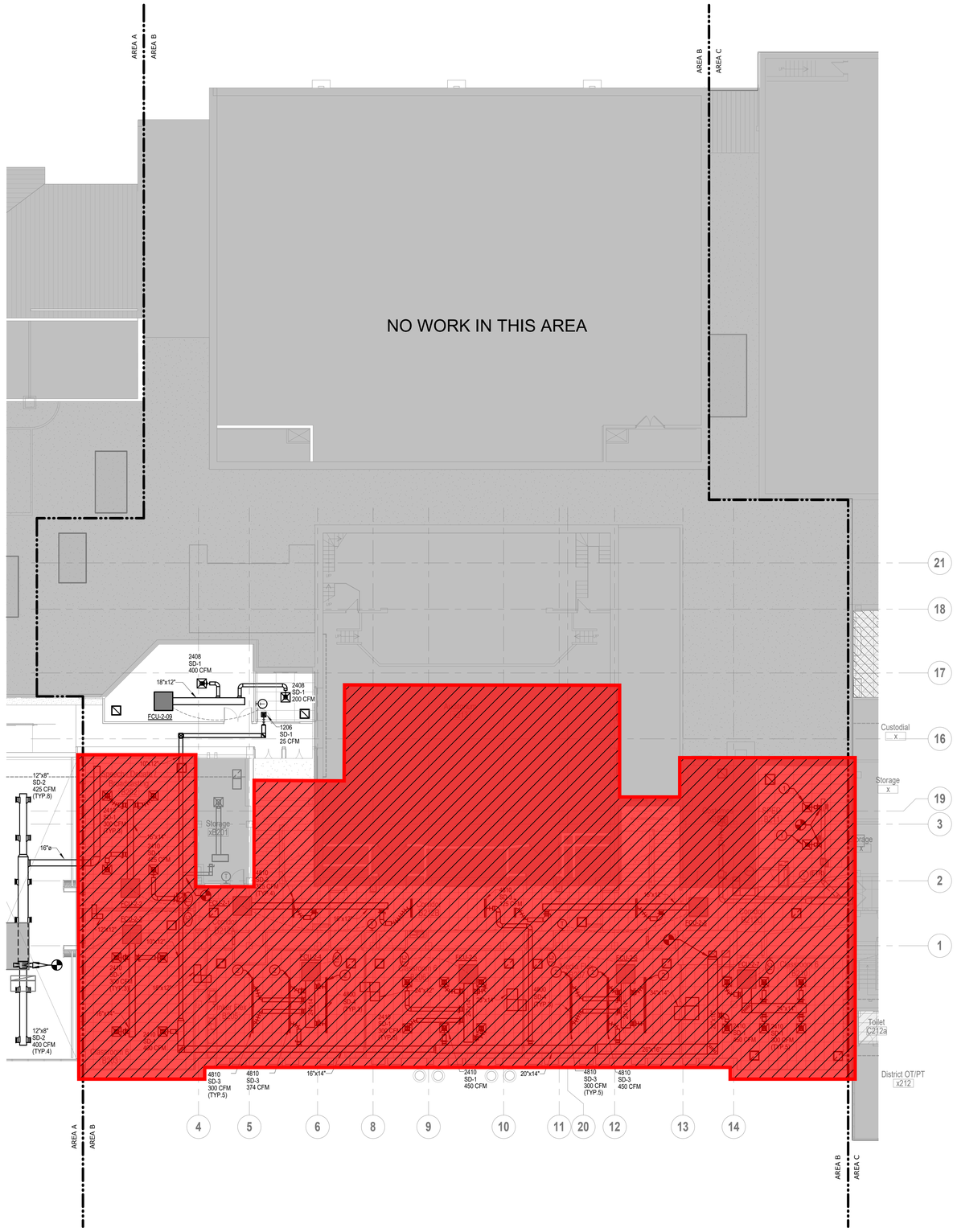

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

(1) BALANCE DIFFUSER TO EXISTING CFM.

(2) PROVIDE CONTINUOUS LENGTH LINEAR DIFFUSER WITH SUPPLY PLENUMS AND BLANK OFF PLATES AT LOCATIONS TAGGED.

= Phase 2 Scope of Work
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Liberty Public Schools
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REVISIONS:

#	Description	Date

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015040171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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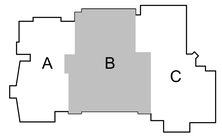
KEY PLAN



M102B

A1 | Scale 3/32" = 1'-0" | HVAC PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

HVAC PLAN - LEVEL 2 - AREA B

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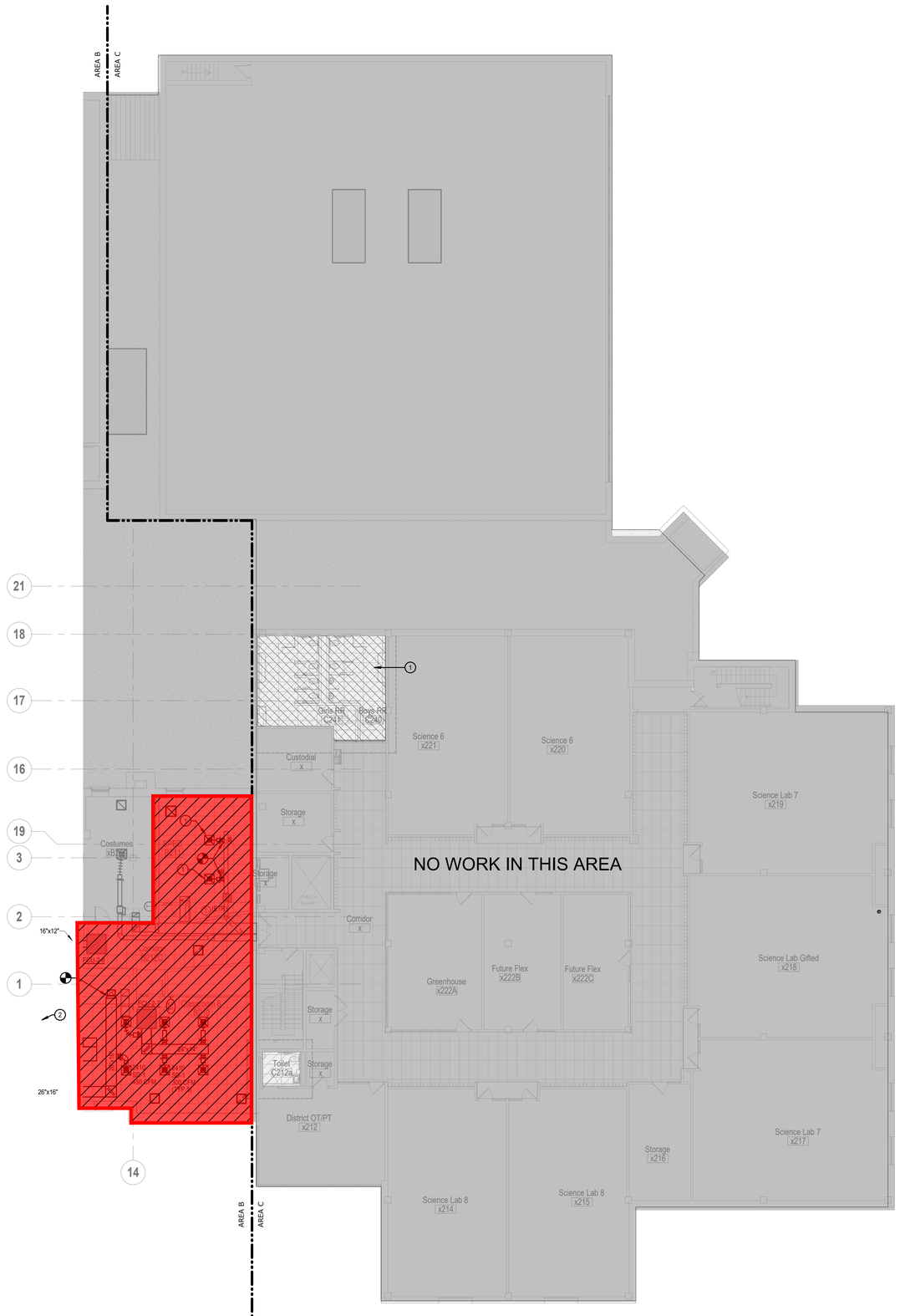

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
3. COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL PRIOR TO CUTTING FLOORS OR BEARING WALLS.
4. AVOID ROUTING ANY PIPING THROUGH IT ROOMS OR ELECTRIC ROOMS. IN THE EVENT IT IS ABSOLUTELY NECESSARY, COORDINATE THE EXACT LOCATION SUCH THAT IT IS NOT DIRECTLY ABOVE ANY PANELS OR EQUIPMENT.
5. WALL MOUNTED DEVICES SUCH AS THERMOSTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND PRESSURE SENSORS ARE SHOWN ON PLANS FOR CLARITY AND GENERAL REFERENCE OF LOCATIONS. LOCATIONS SHOW ARE NOT TO BE CONSIDERED THE EXACT MOUNTING LOCATION. COORDINATE THE INSTALLATION OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND OTHER TRADES WALL MOUNTED DEVICES. GROUP THE INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH MILL WORK, TELEVISIONS, FURNITURE, TEACHING BOARDS, AND OTHER SIMILAR OBSTRUCTIONS.
6. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
7. FURNISH ALL EXPOSED DUCTWORK IN FINISHED SPACES WITH PAINTABLE FINISH.
8. DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.
9. RETURN GRILLES ARE 22"X22" RG-1 OR 22"X10" RG-1 UNLESS NOTED OTHERWISE.
10. PROVIDE "L" SHAPED RETURN AIR TRANSFER BOOTS WHERE WALLS EXTEND TO DECK FOR RETURN AIR PATH. SIZE FOR 800 FPM.
11. HWS, HWR BRANCH PIPING TO INDIVIDUAL TERMINAL UNITS ARE 3/4" UNLESS NOTED OTHERWISE.

PLAN NOTES:

(1) INSTALL NEW DIFFUSERS/GRILLES IN THE SAME LOCATION AS THE EXISTING. BALANCE DIFFUSERS/GRILLES TO THE EXISTING CFM. FIELD VERIFY EXACT LOCATION AND SIZE, PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

= Phase 2 Scope of Work
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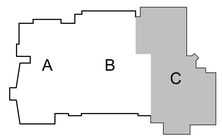
KEY PLAN



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project number 2314708

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008711
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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DATE: 12.07.2023

M102C

PROJECT NORTH TRUE NORTH

A1 Scale 3/32" = 1'-0"

HVAC PLAN - LEVEL 2 - AREA C

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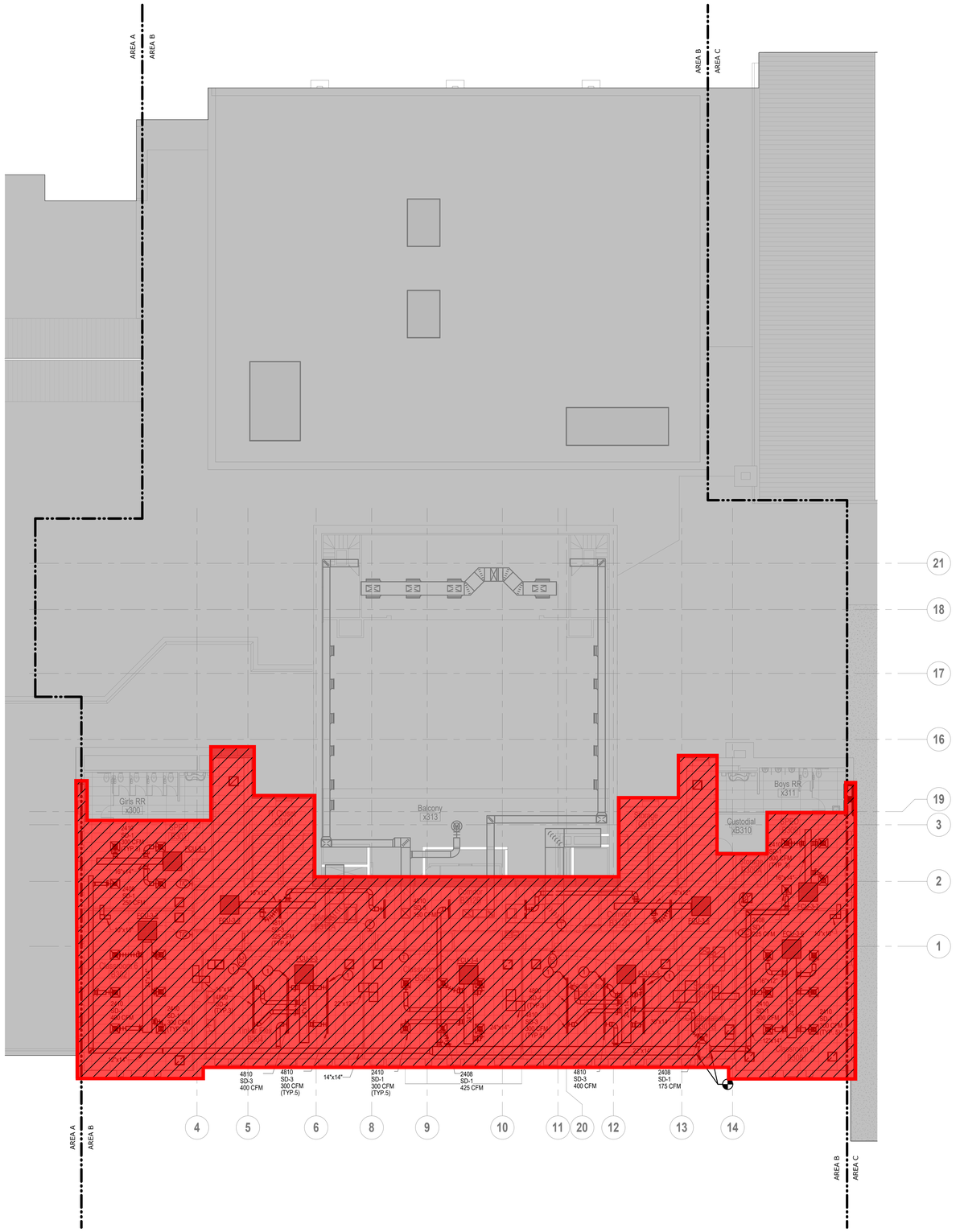

A1 | Scale 3/32" = 1'-0" | HVAC PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1. PROVIDE CONTINUOUS LENGTH LINEAR DIFFUSER WITH SUPPLY PLENUMS AND BLANK OFF PLATES AT LOCATIONS TAGGED.

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Heritage Middle School Renovations

Liberty Public Schools

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
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REGISTERED PROFESSIONAL ENGINEER
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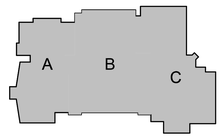

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M103B

HVAC PLAN - LEVEL 3 - AREA B

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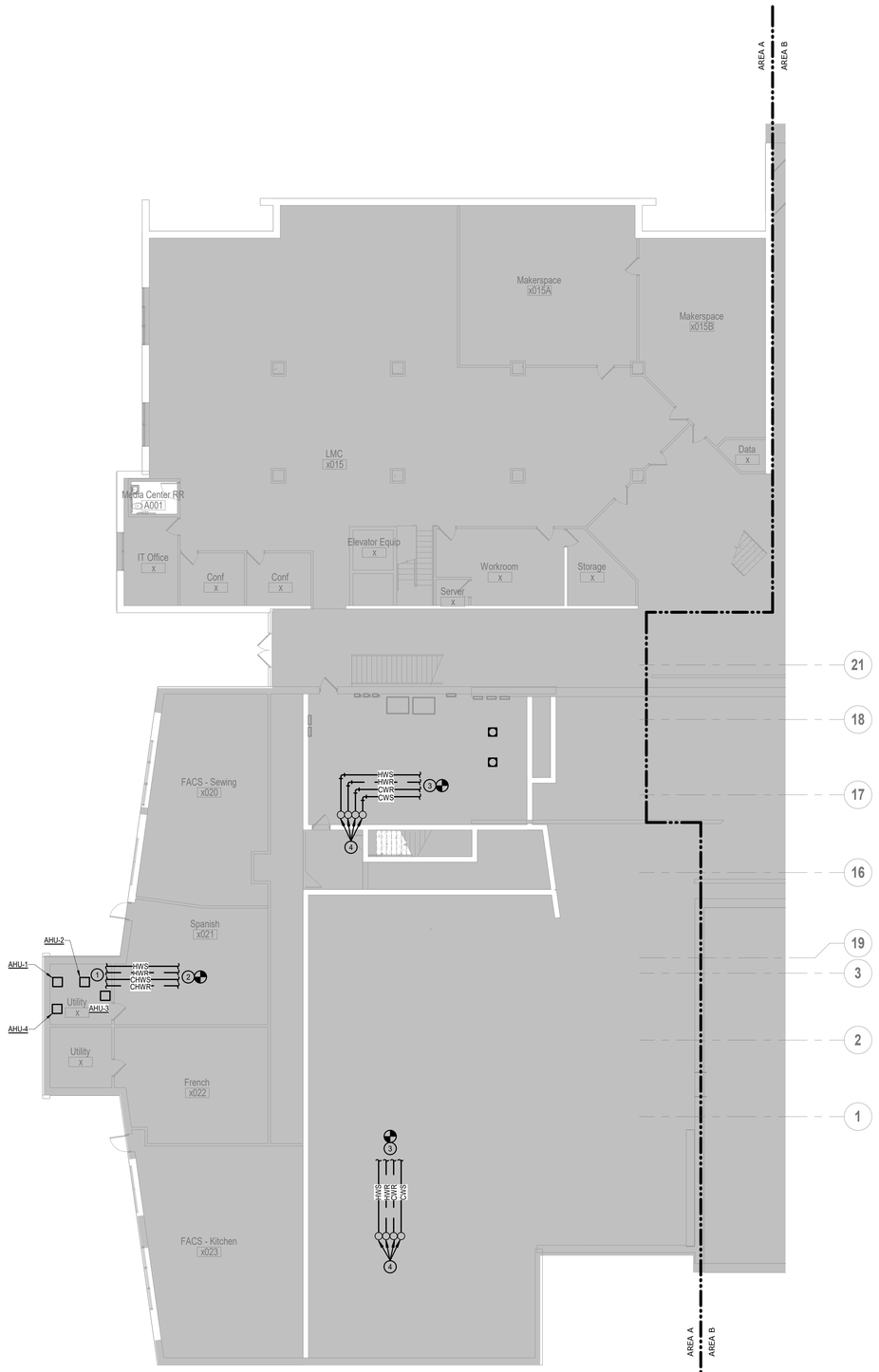


A1 | Scale 3/32" = 1'-0" | HVAC PIPING PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

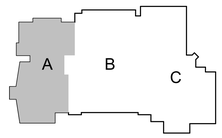
GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1. EXTEND AND CONNTECT 1-1/2" CHWS, 1-1/2" CHWR, 1-1/2", HWS AND 1-1/2" HWR TO EACH AHU. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
2. EXTEND AND CONNTECT 1-1/2" CHWS, 1-1/2" CHWR, 1-1/2", HWS AND 1-1/2" HWR TO EXISTING BOILER AND CHILLER PLANT PIPING. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN. FIELD VERIFY EXACT LOCATION OF EXISTING BOILER AND CHILLER PLANT.
3. EXTEND AND CONNTECT 3" CHWS, 3" CHWR, 3", HWS AND 3" HWR TO EXISTING BOILER AND CHILLER PLANT PIPING. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN. FIELD VERIFY EXACT LOCATION OF EXISTING BOILER AND CHILLER PLANT.
4. 3" CHWS, 3" CHWR, 3", HWS AND 3" HWR UP THRU CHASE.

KEY PLAN



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REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER: 2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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project number 2314708

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M200A

HVAC PIPING PLAN - LEVEL 0 - AREA A

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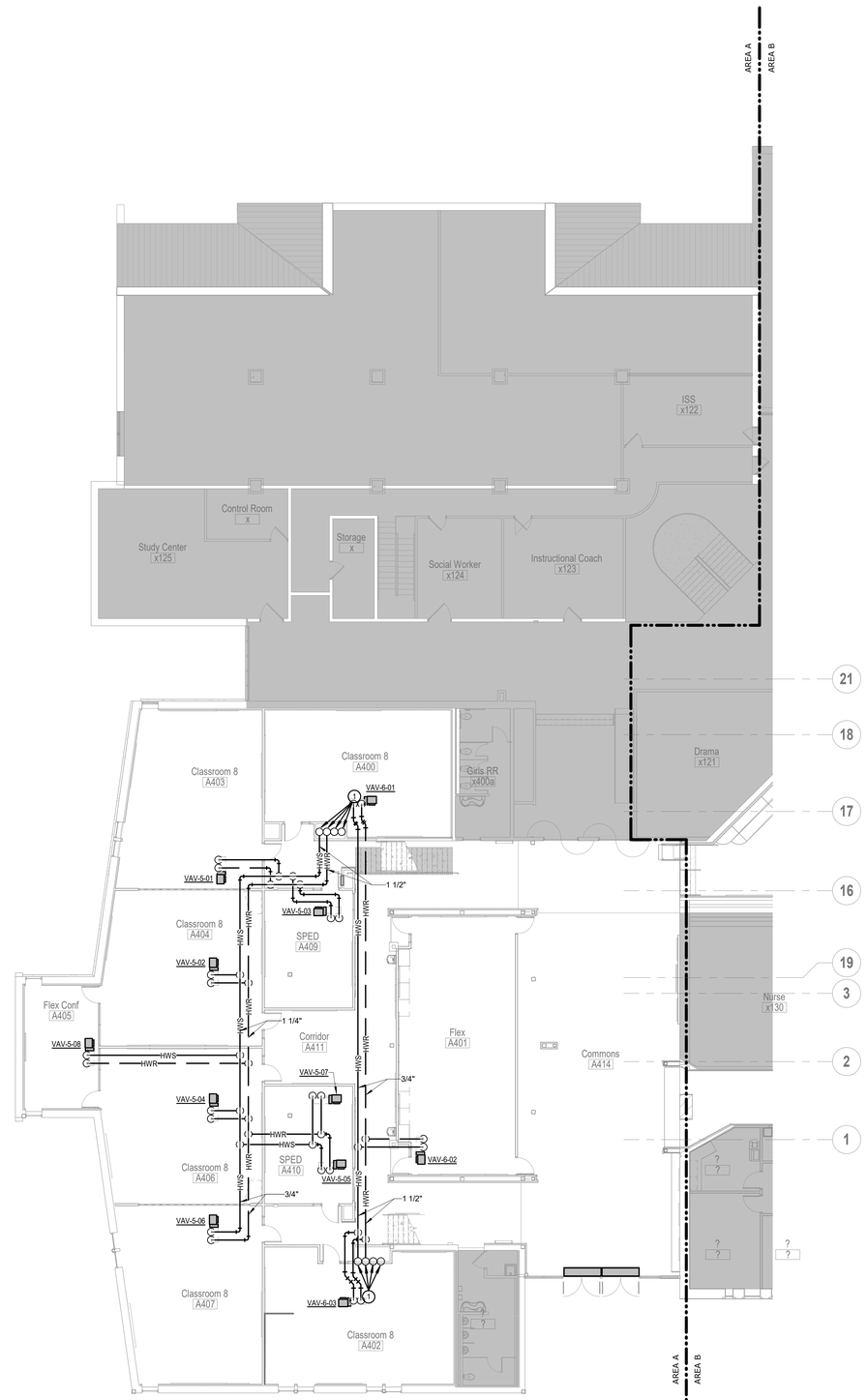


SHEET KEYNOTE LEGEND

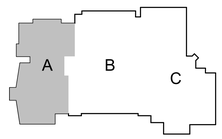
GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

(1) 3" CHWS, 3" CHWR, 3", HWS AND 3" HWR UP AND DOWN THRU CHASE.

KEY PLAN



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100% CONSTRUCTION DOCUMENTS

REVISIONS:

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NUMBER 2015006874
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

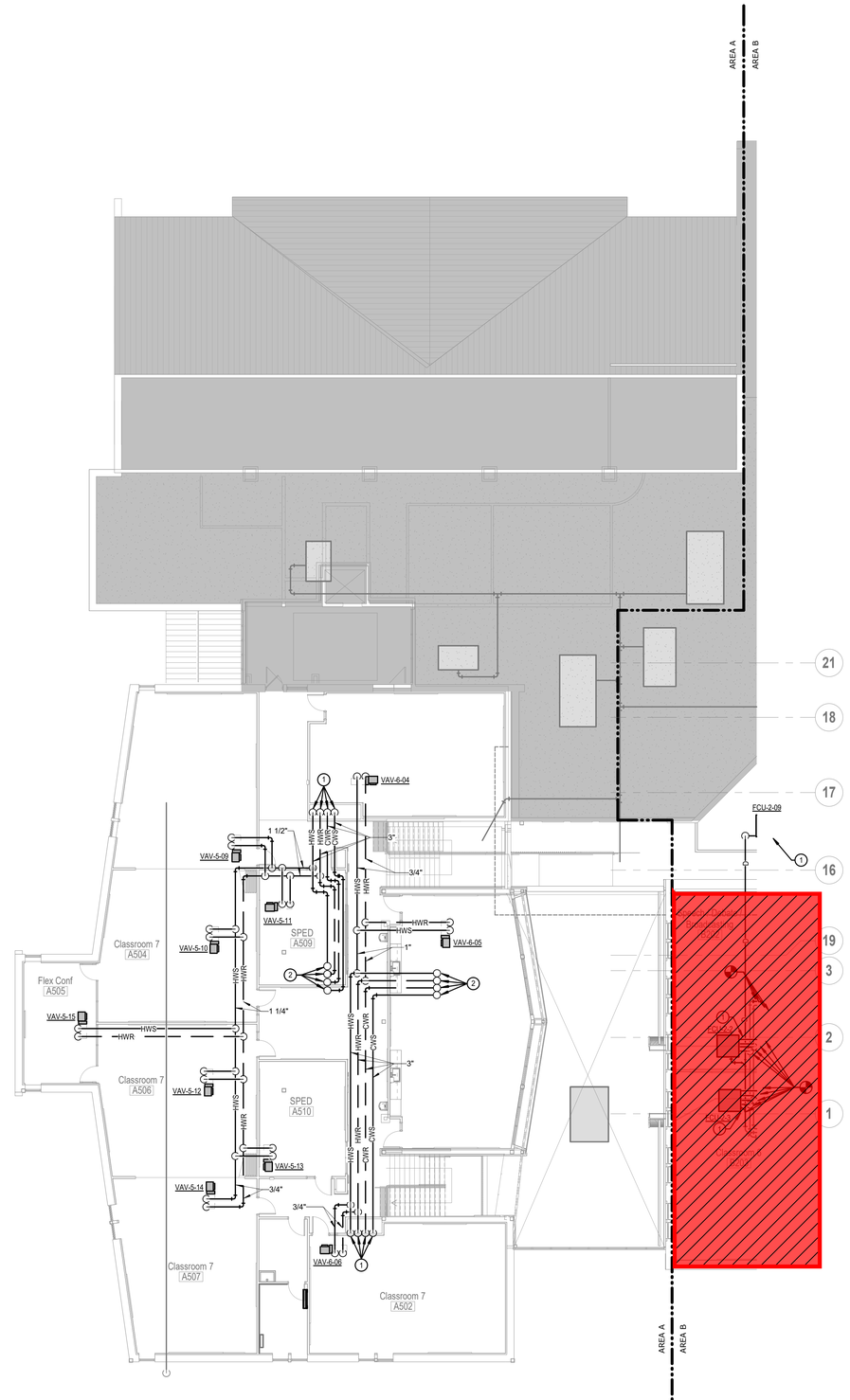
M201A

A1 | Scale 3/32" = 1'-0" | HVAC PIPING PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

HVAC PIPING PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1. 3" CHWS, 3" CHWR, 3", HWS AND 3" HWR DOWN THRU CHASE.
2. 3" CHWS, 3" CHWR, 3", HWS AND 3" HWR UP TO AHU.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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MHA Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDRICH
NUMBER PE-2015006171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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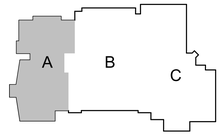
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
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DATE: 12.07.2023

M202A

A1 | Scale 3/32" = 1'-0" | HVAC PIPING PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

HVAC PIPING PLAN - LEVEL 2 - AREA A

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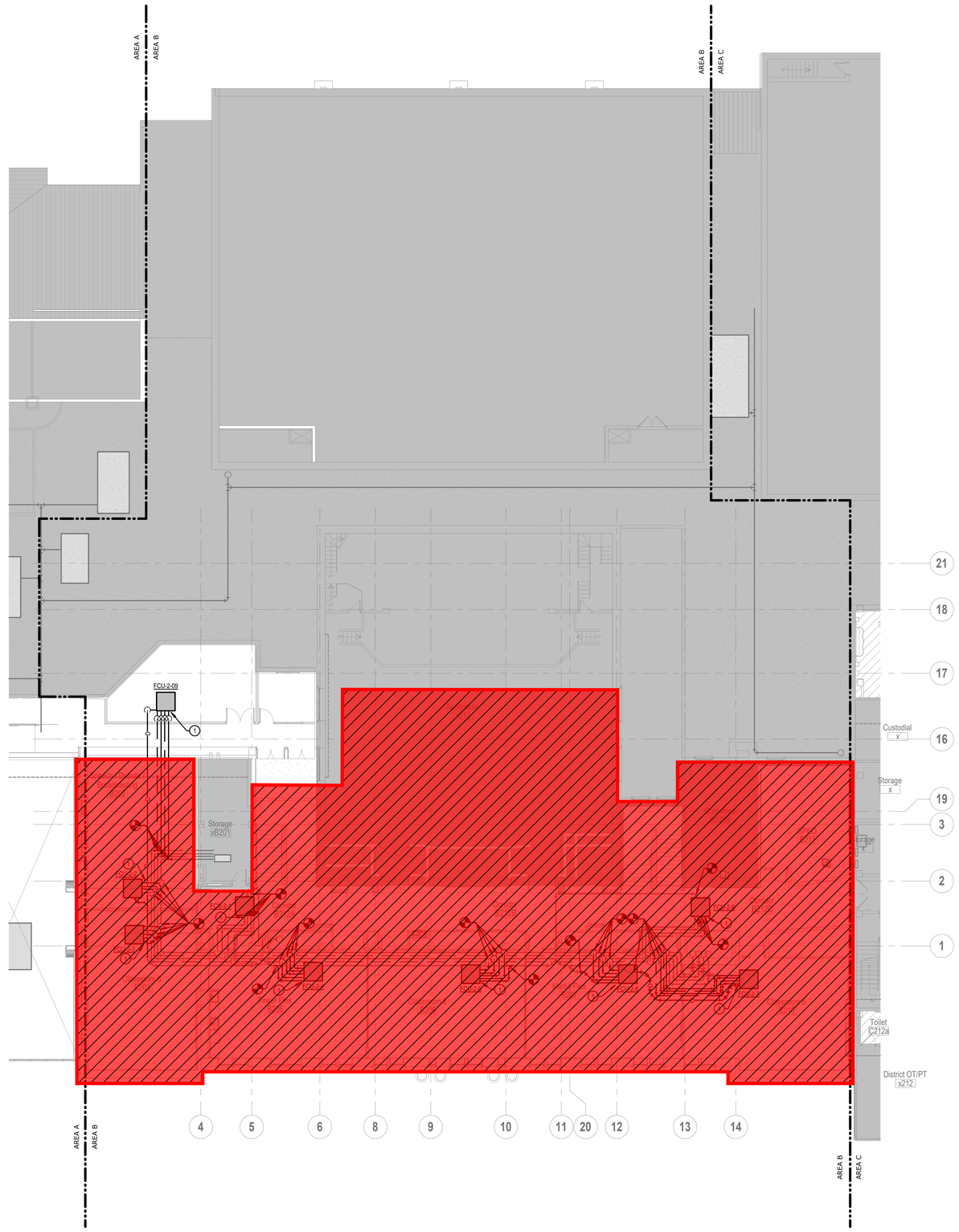

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

(1) 3/4" CHWS, 3/4" CHWR, 3/4" HWS, 3/4" HWR AND 3/4" DRAIN PIPE TO FAN COIL UNIT.

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015008171
PROFESSIONAL ENGINEER
12/7/23

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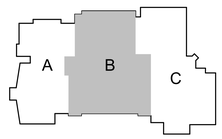
KEY PLAN



M202B

A1 | Scale 3/32" = 1'-0" | HVAC PIPING PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

HVAC PIPING PLAN - LEVEL 2 - AREA B

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A1 | Scale 3/32" = 1'-0" | HVAC PIPING PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON M100A.

PLAN NOTES:

1 3/4" CHWS, 3/4" CHWR, 3/4" HWS, 3/4" HWR AND 3/4" DRAIN PIPE TO FAN COIL UNIT.

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Liberty Public Schools
600 W. Kansas Street
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REVISIONS:

#	Description	Date

smith & boucher engineers
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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
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PE-2015006511
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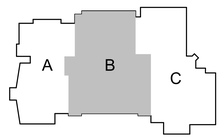
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
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DATE: 12.07.2023

M203B

HVAC PIPING PLAN - LEVEL 3 - AREA B

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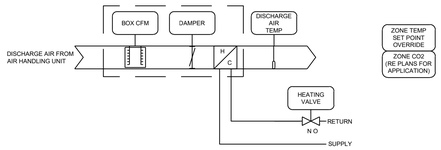


VAV TERMINAL UNIT SEQUENCE

OCCUPIED MODE:
ON A RISE IN ZONE TEMPERATURE ABOVE THE SET POINT (75°F, ADJ.), THE PRIMARY AIR DAMPER SHALL INCREASE THE CFM AND THE REHEAT VALVE REMAINS FULLY CLOSED. ON A DROP IN ZONE TEMPERATURE BELOW THE HEATING SET POINT (70°F, ADJ.) THE PRIMARY DAMPER SHALL DECREASE TO THE MINIMUM CFM. ONCE HEATING IS NEEDED, THE AIRFLOW SHALL INCREASE TO THE HEATING CFM OR REMAIN AT THE MINIMUM POSITION AS APPLICABLE (REFER TO EQUIPMENT SCHEDULES) AND THE REHEAT VALVE SHALL MODULATE TO MAINTAIN SPACE SET POINT.

MONITOR ZONE CO2 OF DENSELY OCCUPIED SPACES. CO2 SENSORS SHALL ALLOW THE MINIMUM COOLING DAMPER POSITION TO RESET LOWER THAN THE SCHEDULED MINIMUM VALUE. RESET DAMPER THE MINIMUM COOLING DAMPER POSITION SUCH THAT AT 1200 PPM (ADJ) THE MINIMUM AIRFLOW SETTING IS AS SCHEDULED AND AT 800 PPM (ADJ) THE MINIMUM DAMPER POSITION IS CLOSED. DAMPER POSITION RESET SHALL WORK IN SEQUENCE WITH THE ASSOCIATED AHU SUCH THAT THE CUMULATIVE DAMPER RESETS SHALL NOT ALLOW THE AHU TO BE BELOW THE AHU SCHEDULED MINIMUM SUPPLY AIRFLOW.

CO2 CONTROL APPLIES TO DENSELY OCCUPIED SPACES SUCH AS CONFERENCE ROOMS AND CLASSROOMS. REFER TO PLANS FOR ADDITIONAL LOCATIONS.

NIGHT SETBACK MODE:
DURING NIGHT SETBACK, TERMINAL BOX CONTROLLERS ARE INDEXED TO UNOCCUPIED MODE. WHEN THE ZONE TEMPERATURE IS BETWEEN THE UNOCCUPIED HEATING (65°F, ADJ.) AND COOLING (85°F, ADJ.) SET POINTS, THE PRIMARY AIR DAMPER SHALL BE CLOSED AND THE REHEAT VALVE SHALL BE CLOSED. ON A RISE IN ZONE TEMPERATURE ABOVE THE UNOCCUPIED COOLING SET POINT, A REQUEST FOR COOLING SHALL BE SENT TO THE BMS. ONCE FIVE UNITS HAVE REQUESTED FOR COOLING, OR A SINGLE SPACE IS MORE THAN 5°F, (ADJ.) OUT OF RANGE, THE AIR HANDLING UNIT SHALL START, THE PRIMARY AIR DAMPER SHALL MODULATE OPEN, AND THE REHEAT VALVE REMAINS FULLY CLOSED. ON A DROP IN ZONE TEMPERATURE BELOW THE UNOCCUPIED HEATING SET POINT, A REQUEST FOR HEATING SHALL BE SENT TO THE BMS. ONCE FIVE UNITS HAVE REQUESTED FOR HEATING, OR A SINGLE SPACE IS MORE THAN 5°F, (ADJ.) OUT OF RANGE, THE AIR HANDLING UNIT SHALL START, THE PRIMARY AIR DAMPER SHALL MODULATE OPEN, AND THE REHEAT VALVE MODULATES OPEN. WHEN THE AHU ACTIVATES, ALL ZONES SHALL BE ENABLED TO BRING SPACES TO 5°F (ADJ) PAST THE MINIMUM SET POINT THRESHOLD.

OPTIMAL START MODE:
WHEN THE SPACE TEMPERATURE IS BELOW SET POINT MORNING WARM UP SHALL BE PROVIDED. THE SPACE SETPOINT SHALL INCREASE FROM UNOCCUPIED SETPOINT TO OCCUPIED SETPOINT OVER A 2 HOUR PERIOD (ADJ.). ONCE THE SPACE SETPOINT IS NOT MET, A REQUEST FOR HEATING SHALL BE SENT TO THE BMS. ONCE FIVE UNITS HAVE REQUESTED FOR HEATING, OR A SINGLE SPACE IS MORE THAN 5°F, (ADJ.) OUT OF RANGE, THE AIR HANDLING UNIT SHALL START, THE PRIMARY AIR DAMPER SHALL MODULATE OPEN, AND THE REHEAT VALVE MODULATES OPEN.

WHEN THE SPACE TEMPERATURE IS ABOVE SET POINT, MORNING COOL DOWN SHALL BE PROVIDED. THE SPACE SETPOINT SHALL DECREASE FROM UNOCCUPIED SETPOINT TO OCCUPIED SETPOINT OVER A 2 HOUR PERIOD (ADJ.). ONCE THE SPACE SETPOINT IS NOT MET, A REQUEST FOR COOLING SHALL BE SENT TO THE BMS. ONCE FIVE UNITS HAVE REQUESTED FOR COOLING, OR A SINGLE SPACE IS MORE THAN 5°F, (ADJ.) OUT OF RANGE, THE AIR HANDLING UNIT SHALL START AND THE PRIMARY AIR DAMPER SHALL MODULATE OPEN.

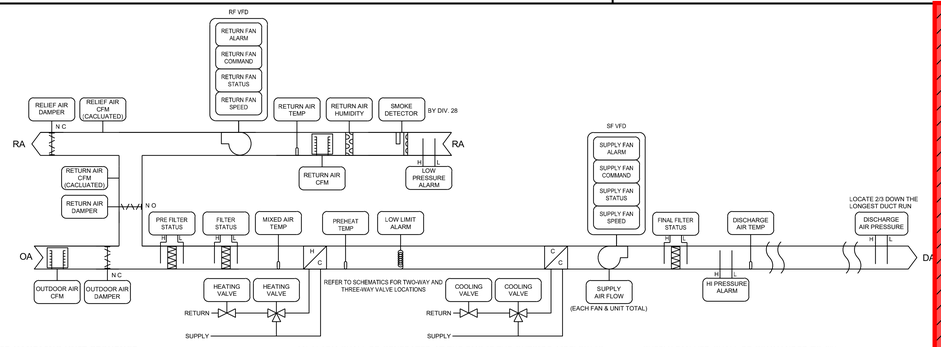
SET POINT LIMIT RANGE:
LIMIT SET POINT ADJUSTMENTS FROM THE SPACE THERMOSTAT TO +/- 3ºF (ADJ.).

OCCUPANCY OVERRIDE:
ALL SPACE THERMOSTATS WILL HAVE OCCUPANCY OVERRIDE BUTTONS AS PART OF THIS CONTRACT. PROVIDE SELECTABLE OPTION THROUGH THE BMS TO DISABLE OCCUPANCY OVERRIDE FOR EACH TERMINAL UNIT.

NOTE THAT SPACE OCCUPANCY SENSORS CANNOT OVERRIDE NORMALLY SCHEDULED UNOCCUPIED MODE. ONLY THE MANUAL OVERRIDE DESCRIBED ABOVE HAS THAT CAPABILITY.

REFER TO THE ASSOCIATED AHU FOR TIMED OCCUPANCY OVERRIDE SEQUENCE.

VAV TERMINAL (HOT WATER)
NO SCALE



VAV AIR HANDLING UNIT SEQUENCE

THE VAV AHU SHALL BE CONTROLLED BY A MICROPROCESSOR-BASED CONTROLLER WHICH SHALL MONITOR AND CONTROL THE UNIT IN A STAND-ALONE MODE OR AS DIRECTED BY THE BUILDING AUTOMATION SYSTEM.

SUPPLY FAN:
THE SUPPLY FAN SHALL BE STARTED ACCORDING TO THE BUILDING OCCUPANCY SCHEDULE. IF THE SUPPLY FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM SHALL BE GENERATED. WHEN THE SUPPLY FAN STATUS INDICATES THE FAN STARTED, THE CONTROL SEQUENCE SHALL BE ENABLED. THE SUPPLY FAN SHALL MODULATE TO MAINTAIN THE DISCHARGE STATIC PRESSURE AT SET POINT (ADJ.)

RETURN/RELIEF FAN:
THE RETURN FAN SHALL BE STARTED ACCORDING TO THE BUILDING OCCUPANCY SCHEDULE. IF THE RETURN FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM SHALL BE GENERATED. WHEN THE RETURN FAN STATUS INDICATES THE FAN STARTED, THE CONTROL SEQUENCE SHALL BE ENABLED.

THE RETURN AIR DAMPER AND RELIEF AIR DAMPER SHALL BE INVERSELY LINKED. DURING NORMAL OPERATION THE RELIEF AIR DAMPER SHALL BE BALANCED TO PROVIDE 700 CFM (ADJ) OF REILEF AIR.

THE RETURN FAN SHALL SPEED SHALL TRACK AND MODULATE WITH THE SUPPLY FAN. THE RETURN FAN PEAK AIRFLOW SHALL BE AS SCHEDULED ON THE DRAWINGS.

ENGAGE THE TAB CONTRACTOR TO MEASURE AND DETERMINE RETURN FAN SPEED SETTINGS AT THE SCHEDULED OFFSETS.

MINIMUM OUTSIDE AIR CONTROL:
THE AIRFLOW STATION SHALL MODULATE THE OUTSIDE AIR DAMPER TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW. AN ALARM SHALL BE GENERATED AT THE BMS IF THE OUTSIDE AIRFLOW IS REDUCED BELOW THE MINIMUM SETTING.

ECONOMIZER MODE:
THE UNIT SHALL BE IN ECONOMIZER MODE WHEN THE OUTDOOR AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY, THE OUTSIDE AIR DRY POINT IS ABOVE 40°F (ADJ.) AND THE OUTSIDE AIR DRY BULB TEMPERATURE IS ABOVE 40°F (ADJ.) FOR A DURATION OF 10 MINUTES (ADJ.). THE OUTSIDE AIR DAMPER, RETURN AIR DAMPER, AND MECHANICAL COOLING WILL BE CONTROLLED TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT SET POINT.

WHEN THE OUTSIDE AIR DRY BULB TEMPERATURE IS ABOVE 53ºF (ADJ.) THE OUTDOOR AIR DAMPER SHALL BE 100% OPEN, THE RETURN AIR DAMPER SHALL BE CLOSED, THE RELIEF AIR DAMPER SHALL BE OPEN, THE RETURN/RELIEF FAN CONTINUES TO TRACK THE SUPPLY FAN, AND MECHANICAL COOLING WILL BE ENABLED.

WHEN THE OUTSIDE AIR DRY BULB TEMPERATURE IS BELOW 53ºF (ADJ.) MECHANICAL COOLING SHALL BE LOCKED OUT AND THE OUTDOOR AIR DAMPER AND RETURN AIR DAMPER SHALL MODULATE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT. THE RETURN/RELIEF FAN SHALL CONTINUE TO TRACK THE SUPPLY FAN. THE OUTSIDE AIR FLOW STATION SHALL MONITOR THE OUTSIDE AIR FLOW AND LIMIT THE MINIMUM POSITION OF THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPERS TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW.

AN ALARM SHALL BE GENERATED AT THE BMS IF THE OUTSIDE AIRFLOW IS REDUCED BELOW THE MINIMUM SETTING.

DISCHARGE AIR CONTROL:
THE DISCHARGE AIR TEMPERATURE SET POINT SHALL BE 57°F (ADJ.) ON A CALL FOR COOLING, THE COOLING COIL VALVE SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT SET POINT. ON A CALL FOR HEATING, THE PREHEAT COIL VALVE SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT SET POINT.

SUPPLY AIR TEMPERATURE RESET:
SUBJECT TO SPACE TEMPERATURE AND HUMIDITY REQUIREMENTS BEING SATISFIED, THE DISCHARGE AIR TEMPERATURE SET POINT SHALL BE RESET UPWARDS IN 1ºF INCREMENTS (ADJ) UP TO A MAXIMUM OF 62ºF (ADJ.)

UNOCCUPIED MODE:
WHEN THE UNIT IS IN NIGHT MODE ACCORDING TO THE SCHEDULE, IT SHALL OPERATE UNDER THE NORMAL OCCUPIED SEQUENCE OF OPERATIONS WITH THE FOLLOWING MODIFICATIONS:

TIMED OVERRIDE:
WHEN OCCUPANCY OVERRIDE IS INITIATED BY THE USER AT A LOCAL THERMOSTAT, THE UNIT OA DAMPER SHALL REMAIN CLOSED AND THE UNIT SHALL OTHERWISE OPERATE PER IT'S NORMAL OCCUPIED MODE SEQUENCE FOR A PERIOD OF 1 HOUR (ADJ.) WHEN THE TIMED OVERRIDE PERIOD ENDS THE UNIT SHALL SWITCH BACK TO THE SCHEDULED MODE OF OPERATION.

MORNING WARM-UP MODE AND COOL-DOWN MODES:
PROVIDE OPTIMAL START LOGIC TO DETERMINE WHEN TO BEGIN THE MORNING WARM-UP OR COOL-DOWN SEQUENCE. WHEN THE UNIT TRANSITIONS FROM THE UNOCCUPIED MODE TO OCCUPIED MODE, MORNING WARM-UP OR COOL-DOWN SHALL BE ACTIVATED. DURING MORNING WARM-UP/COOLDOWN, THE AHU SUPPLY AND RETURN FANS SHALL OPERATE AT 100% FLOW, THE OUTSIDE AIR SHALL REMAIN AT 25% OF NORMALLY SCHEDULED AIRFLOW, AND THE HEATING VALVE/COOLING VALVE SHALL MODULATE TO MAINTAIN THE OCCUPIED DISCHARGE AIR TEMPERATURE SET POINT. WHEN THE ZONE TEMPERATURE IS WITHIN 1ºF OF SET POINT, THE AHU SHALL TRANSITION TO THE OCCUPIED SEQUENCE.

BUILDING PRESSURE CONTROL:
BUILDING PRESSURE CONTROL IS MANAGED VIA THE RETURN/RELIEF FAN AND PREDEFINED OFFSETS OF THE OUTSIDE AIR AND RELIEF AIR QUANTITIES. PROVIDE SPACE PRESSURE SENSORS TO MONITOR SPACE PRESSURE.

FREEZE PROTECTION:
IN THE EVENT MIXED AIR TEMPERATURE FALLS BELOW 35 °F REDUCE THE OUTSIDE AIRFLOW BELOW THE MINIMUM SETTING TO MAINTAIN A MINIMUM 40ºF MIXED AIR TEMPERATURE WITHOUT GENERATING AN ALARM. IF A MIXED AIR TEMPERATURE SENSOR SENSES AN ENTERING AIR TEMPERATURE LESS THAN 30ºF (ADJ.) GENERATE AN ALARM. IF A TEMPERATURE LOW LIMIT SWITCH SENSES A TEMPERATURE BELOW SET POINT 30 ºF (ADJ.) THE SUPPLY FAN SHALL BE SHUTDOWN THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE HEATING VALVE SET TO THE OPEN POSITION.

SHUTDOWN:
WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT SHALL BE SET AS FOLLOWS:
- SUPPLY FAN SHALL BE OFF
- SUPPLY FAN VFD SHALL BE COMMANDED TO 0%
- RETURN FAN SHALL BE OFF
- RETURN FAN VFD SHALL BE COMMANDED TO 0%
- OUTSIDE AIR DAMPERS SHALL CLOSED
- RELIEF DAMPER SHALL BE CLOSED
- RETURN AIR DAMPER SHALL OPEN
- PREHEAT VALVE SHALL REMAIN IN CONTROL
- COOLING VALVE SHALL BE CLOSED

FILTER STATUS:
THE DIFFERENTIAL PRESSURE ACROSS THE FILTERS SHALL BE MONITORED AND AN ALARM GENERATED IF THE DIFFERENTIAL PRESSURE RISES ABOVE SET POINT.

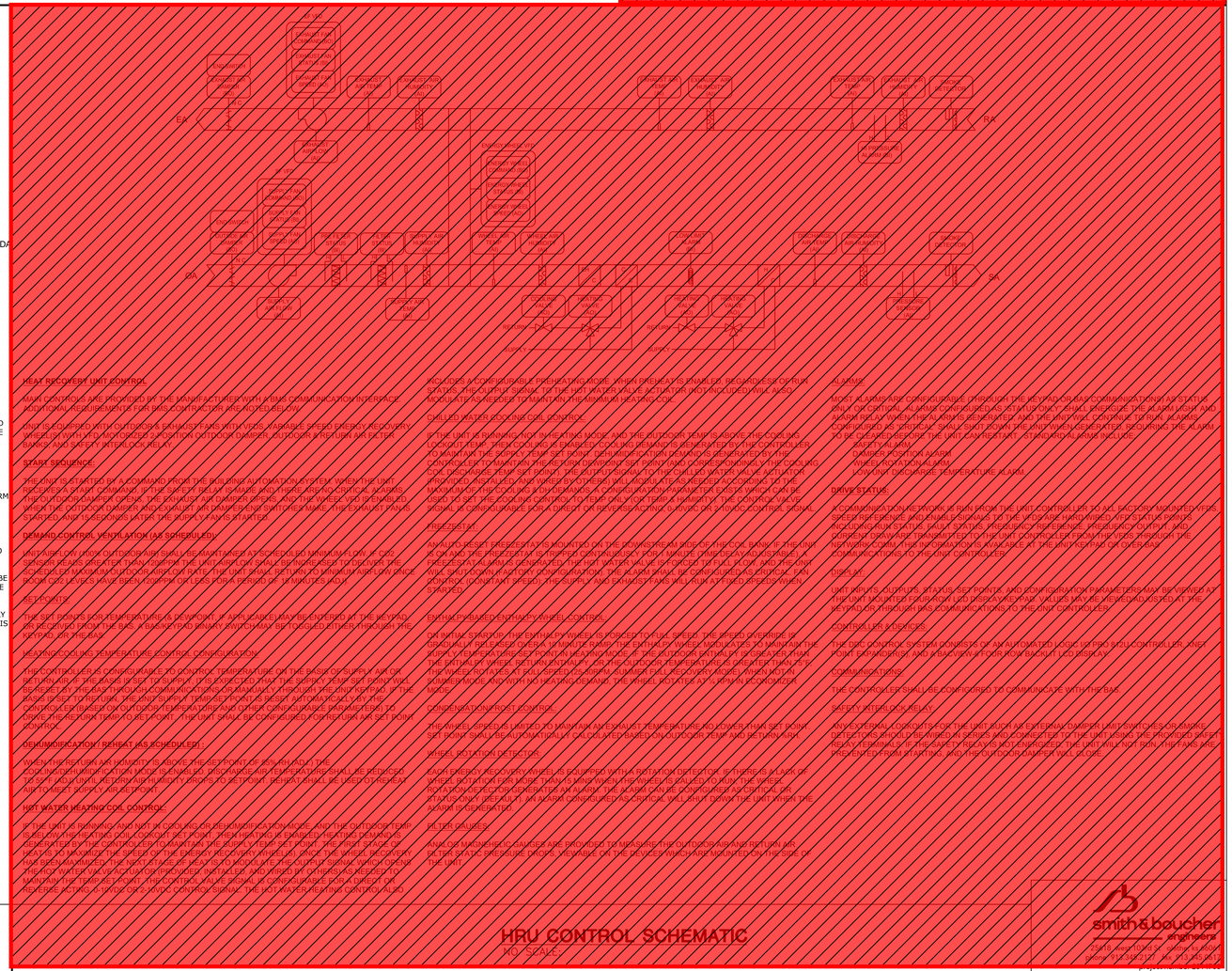
SMOKE DETECTOR ALARM:
UNIT SHALL BE HARDWIRED TO SHUT DOWN UPON SMOKE DETECTOR ACTIVATION. BMS TO MONITOR AHU SMOKE DETECTOR AND ALL SMOKE DETECTORS AT TERMINAL UNITS ASSOCIATED WITH THE AHU. COMMAND UNIT AND ALL ASSOCIATED TERMINAL UNITS OFF AND GENERATE AN ALARM IN THE EVENT AND SMOKE DETECTOR ALARM IS ACTIVATED.

SAFETIES:
IF A TEMPERATURE LOW LIMIT SWITCH SENSES A TEMPERATURE BELOW SET POINT 30 ºF (ADJ.) THE SUPPLY FAN SHALL BE SHUTDOWN THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE HEATING VALVE SET TO THE OPEN POSITION.

IF A FIRE ALARM SHUTDOWN CONTACT IS MADE, THE SUPPLY FAN SHALL BE HARDWIRED TO SHUTDOWN WHEN TRIGGERED. BMS SHALL MONITOR THE FIRE ALARM CONTACT AND GENERATE AN ALARM.

IF A HIGH OR LOW STATIC PRESSURE SWITCH LOCATED AFTER THE SUPPLY FAN OR BEFORE THE RETURN FAN SENSES A DISCHARGE PRESSURE THAT IS GREATER THAN SET POINT, THE SUPPLY FAN SHALL BE SHUTDOWN. THE AHU SHALL ATTEMPT THREE (3) AUTOMATIC RESTARTS PRIOR TO REQUIRING A MANUAL RESTART BY BUILDING STAFF.

VARIABLE VOLUME AIR HANDLING UNIT
NOT TO SCALE



HEAT RECOVERY UNIT CONTROL

AHU OPERATIONS ARE PROVIDED BY THE MAIN BUILDING AUTOMATION SYSTEM (BAS) CONTRACTOR. ADDITIONAL REQUIREMENTS FOR BAS CONTRACTOR ARE NOTED BELOW.

AHU IS EQUIPPED WITH OUTDOOR AIR DAMPER, EXHAUST AIR DAMPER, AND RETURN AIR DAMPER. RECOVERY WHEEL IS EQUIPPED WITH ROTATION DIRECTION SENSOR (SENSOR MEDIUM IN DATA

START SEQUENCE

THE UNIT IS STARTED BY A COMMAND FROM THE BUILDING AUTOMATION SYSTEM WHEN THE UNIT IS NECESSARY OF UNIT COMMUNICATION SYSTEM FAILURE. WHEN THE UNIT IS COMMANDED TO START, THE OUTDOOR AIR/EA DAMPER OPENS, THE EXHAUST AIR DAMPER OPENS, AND THE WHEEL VFD IS ENABLED. WHEN THE OUTDOOR DAMPER AND EXHAUST AIR DAMPER END SWITCHES MAKE, THE EXHAUST FAN IS STAGED AND ASSESSED AS PER THE SUPPLY FAN'S START/ST

DEMAND CONTROL VENTILATION (AS SCHEDULED)

MVP AIRFLOW (MIN OUTDOOR AIR SHALL BE MAINTAINED AT SCHEDULED MINIMUM FLOW. IF CO2 SENSOR READS GREATER THAN ONE FROM THE UNIT AIRFLOW SHALL BE INCREASED TO DELIVER THE SCHEDULED OUTDOOR/OUTDOOR AIRFLOW RATE. THE UNIT AHU SHALL RETURN TO MINIMUM AIRFLOW ONCE THE OUTDOOR CAMPER OPENS. THE EXHAUST AIR DAMPER SHEAS, AND THE WHEEL VFD IS ENABLED. WHEN THE OUTDOOR DAMPER AND EXHAUST AIR DAMPER END SWITCHES MAKE, THE EXHAUST FAN IS STAGED AND ASSESSED AS PER THE SUPPLY FAN'S START/ST

SETPOINTS

THE SET POINTS FOR TEMPERATURE (A DEWPOINT, IF APPLICABLE) MAY BE ENTERED AT THE KEYPAD AND RECEIVED FROM THE BMS. A BACKYARD PANEL ANOTHER MAY BE TOGGLED EITHER THROUGH THE KEYPAD, OR MESSAGE

HEATING/COOLING TEMPERATURE CONTROL/OPERATION

THIS CONTROLLER IS CONFIGURABLE TO CONTROL TEMPERATURE ON THE BASIS OF SUPPLY AIR ON RETURN AIR, IF THE BASIS IS SET FOR SUPPLY. IT IS EXPECTED THAT THE SUPPLY TEMP SET POINT WILL BE ADJUSTED PERIODICALLY THROUGH COMMUNICATIONS OR MANUALLY THROUGH THE KEYPAD BY THE CONTROLLER (BASED ON CUSTOMER TEMPERATURE AND OTHER CONFIGURABLE PARAMETERS) TO OPERATE THE RETURN TEMP TO ITS SET POINT. THE UNIT SHALL BE CONFIGURED FOR RETURN AIR SET POINT CONTROL.

DEHUMIDIFICATION / REHEAT (AS SCHEDULED)

WHEN THE RETURN AIR HUMIDITY IS ABOVE THE SET POINT OF 55% RH (ADJ.) THE DOOR INDUCTION MODE IS ENABLED. DISCHARGE AIR TEMPERATURE SHALL BE REDUCED TO ACHIEVE DEWPOINT. ACTUATOR MUST ACCEPT 0-10VDC SIGNAL. REHEAT SHALL BE USED TO ENGAGE AS TO CHECK TEMP SET POINT.

HOT WATER HEATING COIL CONTROL

IF THE UNIT IS RUNNING AND NOT IN COOLING OR DEHUMIDIFICATION MODE, AND THE OUTDOOR TEMP IS BELOW HEATING COIL CONTROL SET POINT, PREHEATING IS ENABLED. HEATING DEMAND IS INDICATED BY THE VALVE BEING MODULATED TO THE SUPPLY VALVE SET POINT. THE FIRST STAGE OF HEATING IS TO MAXIMIZE THE SPEED OF THE ENERGY RECOVERY WHEEL(S), ONCE THE WHEEL RECOVERY HAS BEEN MAXIMIZED THE NEXT STAGE OF HEATING MODULATE THE OUTPUT SIGNAL WHICH OPENS THE HOT WATER VALVE ACTUATOR PROPORTIONALLY TO ITS SIGNAL AS RECEIVED BY THE UNIT TO MAINTAIN THE TEMPERATURE SET POINT. THE CONTROL VALVE SIGNAL IS CONFIGURABLE FOR A DIRECT OR REVERSE ACTING 0-10VDC OR 2-10VDC CONTROL SIGNAL.

SUPPLY FAN VFD SHALL BE COMMANDED TO 0%
RETURN FAN SHALL BE OFF
RETURN FAN VFD SHALL BE COMMANDED TO 0%
OUTSIDE AIR DAMPERS SHALL CLOSED
RELIEF DAMPER SHALL BE CLOSED
RETURN AIR DAMPER SHALL OPEN
PREHEAT VALVE SHALL REMAIN IN CONTROL
COOLING VALVE SHALL BE CLOSED

FILTER STATUS:

THE DIFFERENTIAL PRESSURE ACROSS THE FILTERS SHALL BE MONITORED AND AN ALARM GENERATED IF THE DIFFERENTIAL PRESSURE RISES ABOVE SET POINT.

SMOKE DETECTOR ALARM:

UNIT SHALL BE HARDWIRED TO SHUT DOWN UPON SMOKE DETECTOR ACTIVATION. BMS TO MONITOR AHU SMOKE DETECTOR AND ALL SMOKE DETECTORS AT TERMINAL UNITS ASSOCIATED WITH THE AHU. COMMAND UNIT AND ALL ASSOCIATED TERMINAL UNITS OFF AND GENERATE AN ALARM IN THE EVENT AND SMOKE DETECTOR ALARM IS ACTIVATED.

SAFETIES:

IF A TEMPERATURE LOW LIMIT SWITCH SENSES A TEMPERATURE BELOW SET POINT 30 ºF (ADJ.) THE SUPPLY FAN SHALL BE SHUTDOWN THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE HEATING VALVE SET TO THE OPEN POSITION.

IF A FIRE ALARM SHUTDOWN CONTACT IS MADE, THE SUPPLY FAN SHALL BE HARDWIRED TO SHUTDOWN WHEN TRIGGERED. BMS SHALL MONITOR THE FIRE ALARM CONTACT AND GENERATE AN ALARM.

IF A HIGH OR LOW STATIC PRESSURE SWITCH LOCATED AFTER THE SUPPLY FAN OR BEFORE THE RETURN FAN SENSES A DISCHARGE PRESSURE THAT IS GREATER THAN SET POINT, THE SUPPLY FAN SHALL BE SHUTDOWN. THE AHU SHALL ATTEMPT THREE (3) AUTOMATIC RESTARTS PRIOR TO REQUIRING A MANUAL RESTART BY BUILDING STAFF.

HRU CONTROL SCHEMATIC
NO SCALE

FAN COIL UNIT

THE FAN COIL UNIT SHALL BE CONTROLLED BY A MICROPROCESSOR BASED CONTROLLER WHICH SHALL MONITOR AND CONTROL THE UNIT IN A STAND-ALONE MODE (OR AS DIRECTED BY THE BUILDING AUTOMATION SYSTEM). THE UNIT SHALL BE ENABLED ACCORDING TO THE OCCUPANCY SCHEDULE (OR BY INITIAL SETTING).

START SEQUENCE

WHEN THE FAN COIL UNIT IS IN THE OCCUPIED MODE, THE UNIT SHALL BE COMMANDED ON AND THE SUPPLY FAN SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE (SEE ARU). IF THE SUPPLY FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM SHALL BE GENERATED.

COOLING MODE:

THE CHILLED WATER COIL SHALL CYCLE WITH THE SUPPLY FAN TO MAINTAIN SPACE TEMPERATURE. IN THE EVENT SPACE TEMPERATURE IS ASSIGNED, THE VALVE SHALL CYCLE CLOSED AND THE FAN SHALL CYCLE OFF. THE COOLING ALARM SHALL BE ACTIVATED IF THE SUPPLY FAN IS OFF OR THE HEATING VALVE IS IN CONTROL.

HEATING MODE:

THE HEATING VALVE SHALL MODULATE THE SPACE TEMPERATURE SET POINT. IN THE EVENT SPACE TEMPERATURE IS SATISFIED, THE VALVE SHALL CYCLE CLOSED. THE HEATING VALVE SHALL BE CLOSED IF THE COOLING VALVE IS ENABLED OR THE SUPPLY FAN IS OFF.

SHUTDOWN:

WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT SHALL BE SET AS FOLLOWS:
- ALL SUPPLY FAN SHALL BE OFF
- HEATING VALVE SHALL REMAIN IN CONTROL
- COOLING VALVE SHALL CLOSE

GENERATE AN ALARM IF THE SPACE TEMPERATURE IS MORE THAN XX°F (ADJ) OUT OF RANGE FOR 15 MINUTES (ADJ)

SYSTEM SHALL BE ON EMERGENCY POWER.

REFER TO EQUIPMENT SCHEDULES ON DRAWINGS FOR QUANTITIES AND LOCATIONS.

*** NOTE ONLY SOME UNITS HAVE HEATING COILS. REFER TO EQUIPMENT SCHEDULE FOR APPLICATIONS.

FAN COIL UNIT SCHEMATIC
NO SCALE

ALARMS

MOST ALARMS ARE CONFIGURABLE, DEPENDENT ON THE KEYPAD/DISPLAY COMMUNICATION SYSTEM. ONLY CRITICAL ALARMS CONFIGURED AS STATUS ONLY SHALL ENERGIZE THE ALARM LIGHT AND ALARM RELAY (WHEN THE ALARMS GENERATED) AND THE UNIT WILL CONTINUE TO RUN AS ONE. CONFIGURED AS CRITICAL SHALL SHUT DOWN THE MVP WHEN GENERATED, REQUIRING THE ALARM TO BE ACKNOWLEDGED AT THE UNIT OR A REMOTE ACCESS POINT.

SAFETY ALARM
DAMPER POSITION ALARM
VALVE POSITION ALARM
NON-RUN OCCURRENCE ALARM

DRIVE STATUS

A COMMUNICATION NETWORK IS RUN FROM THE UNIT CONTROLLER TO ALL FACTORY MOUNTED DRIVES. THE UNIT CONTROLLER SHALL MONITOR AND CONTROL THE DRIVES FOR RUN/STOP, SPEED, AND ALL OTHER FUNCTIONS AVAILABLE AT THE DRIVE KEYPAD OR OVER BAS. CONFIGURATION DATA, STATUS, FREQUENCY REFERENCE, PRESENT SPEED, AND CURRENT DRIVE ARE TRANSMITTED TO THE UNIT CONTROLLER FROM THE VFDS THROUGH THE NETWORK. COMMUNICATION PROTOCOL AVAILABLE AT THE MVP KEYPAD OR OVER BAS COMMUNICATIONS TO THE UNIT CONTROLLER.

DISPLAY

UNIT INPUTS, OUTPUTS, STATUS, SET POINTS, AND CONFIGURATION PARAMETERS MAY BE VIEWED AT THE UNIT MOUNTED KEYPAD/LCD DISPLAY. KEYPAD/DISPLAY VALUES MAY BE VIEWED AND ADJUSTED AT THE KEYPAD AS PRIVILEGES HAVE BEEN ASSIGNED TO THE UNIT CONTROLLER.

CONTROLLER INTERFACE

THE DDC CONTROL SYSTEM CONSISTS OF AN AUTOMATED LOGIC LCP2 BTU CONTROLLER AND POINT EXPANSION MODULES AND A TOUCHVIEW TOUCH SCREEN LCD DISPLAY.

COMMUNICATIONS

THE CONTROLLER SHALL BE CONFIGURED TO COMMUNICATE WITH THE BAS.

SAFETY INTERLOCK RELAY

AN EXTERNAL CONTACTS FOR THE UNIT SUCH AS EXTERNAL DAMPER LIMIT SWITCHES OR SMOKE DETECTORS SHALL BE WIRED IN SERIES AND CONNECTED TO THE UNIT USING THE PROVIDED SAFETY RELAY TERMINALS. IF THE SAFETY RELAY IS NOT ENERGIZED, THE UNIT WILL NOT RUN. THE FANS ARE PREVENTED FROM STARTING AND THE OUTDOOR DAMPER WILL BE CLOSED.

HVAC CONTROL DIAGRAMS

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

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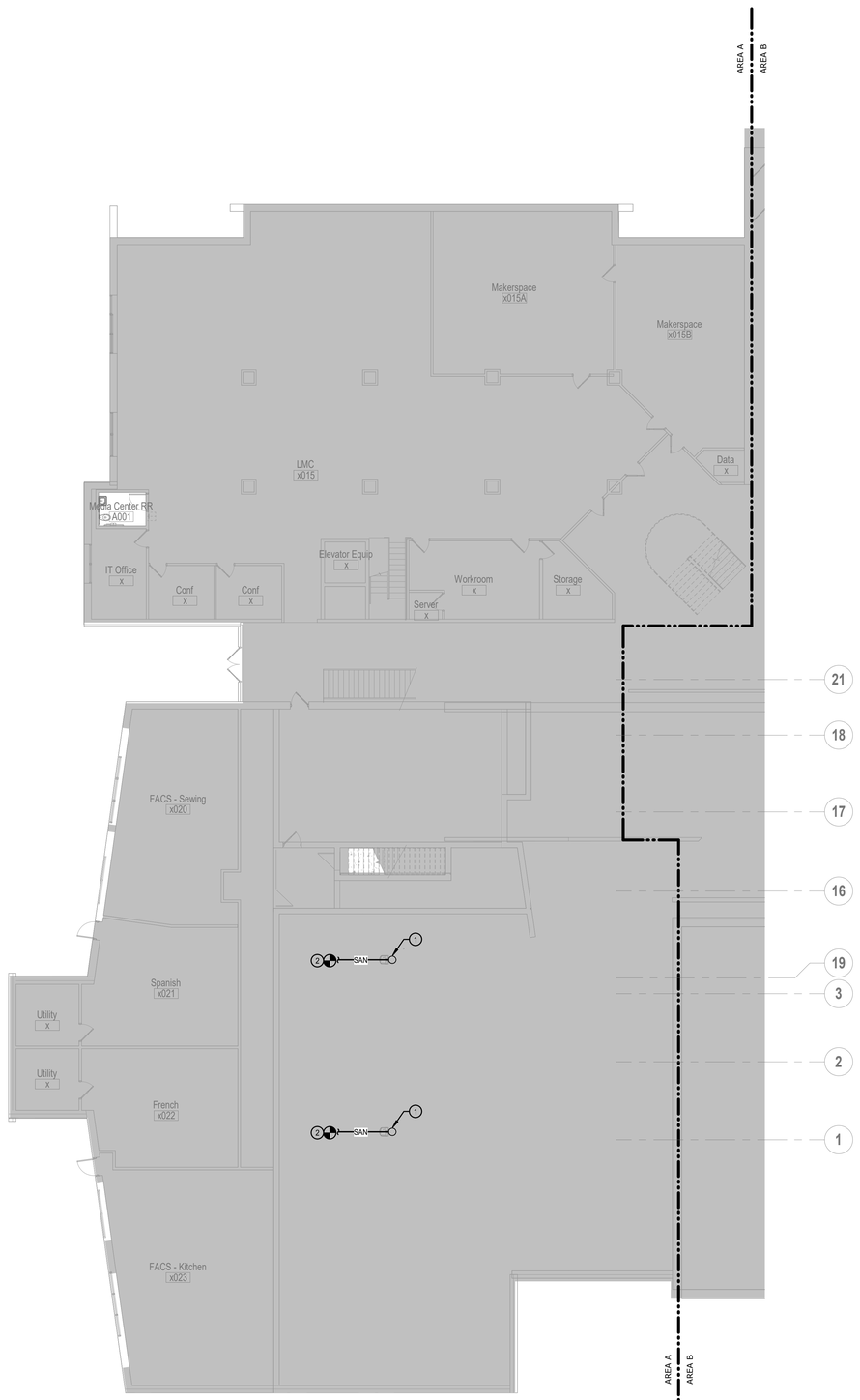
| # |



SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P100A.

PLAN NOTES:

1. 2" SAN UP TO DRINKING FOUNTAIN.
2. EXTEND AND CONNECT 2" SAN TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

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REVISIONS:

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008711
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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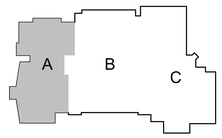

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DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

P001A

PROJECT NORTH TRUE NORTH

A1 | Scale 3/32" = 1'-0" | UNDERSLAB PLUMBING PLAN - LEVEL 0 - AREA A

UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA A

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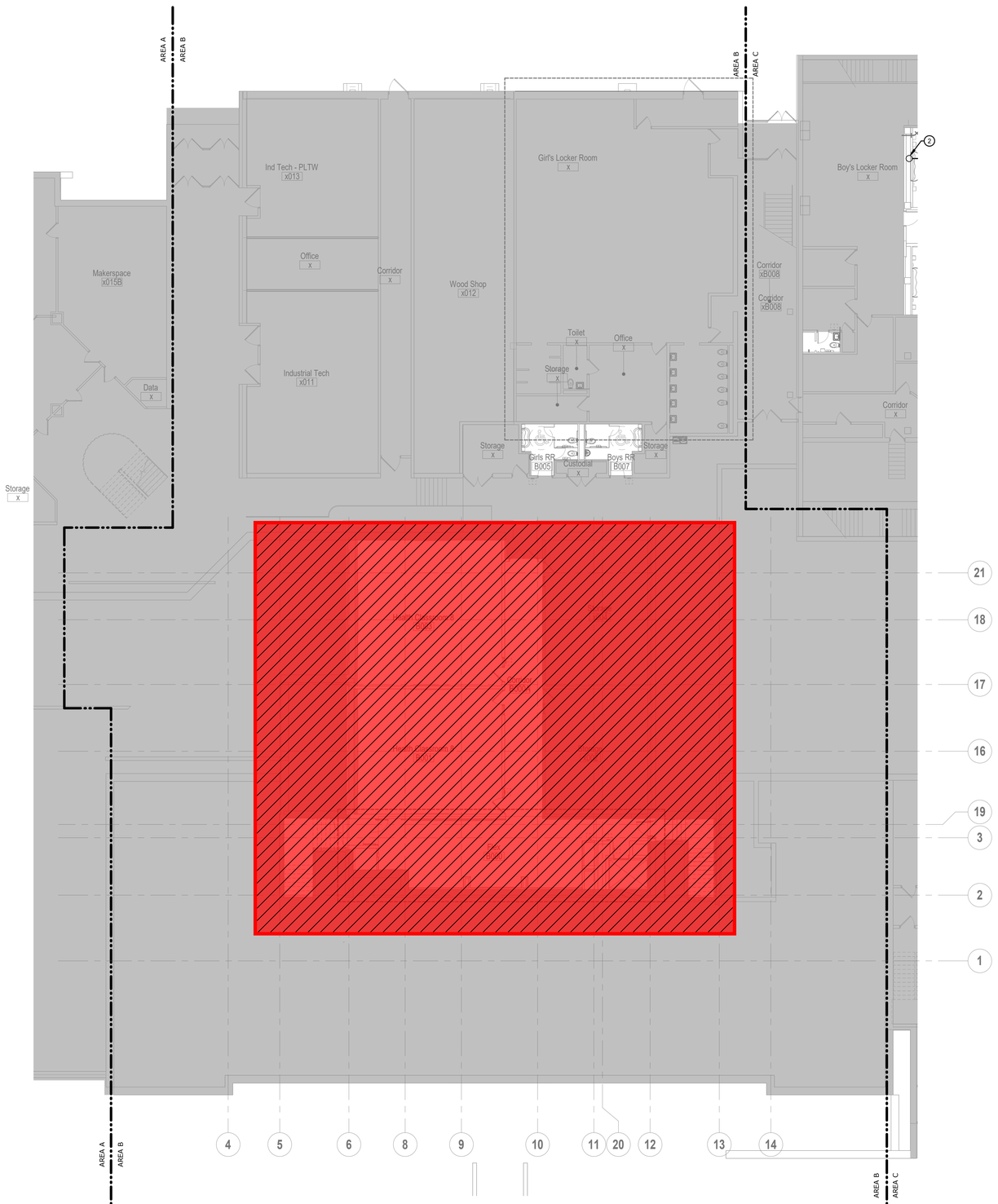

A1 | Scale 3/32" = 1'-0" | UNDERSLAB PLUMBING PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P100A.

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REVISIONS:

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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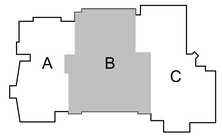
KEY PLAN



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P001B

UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA B

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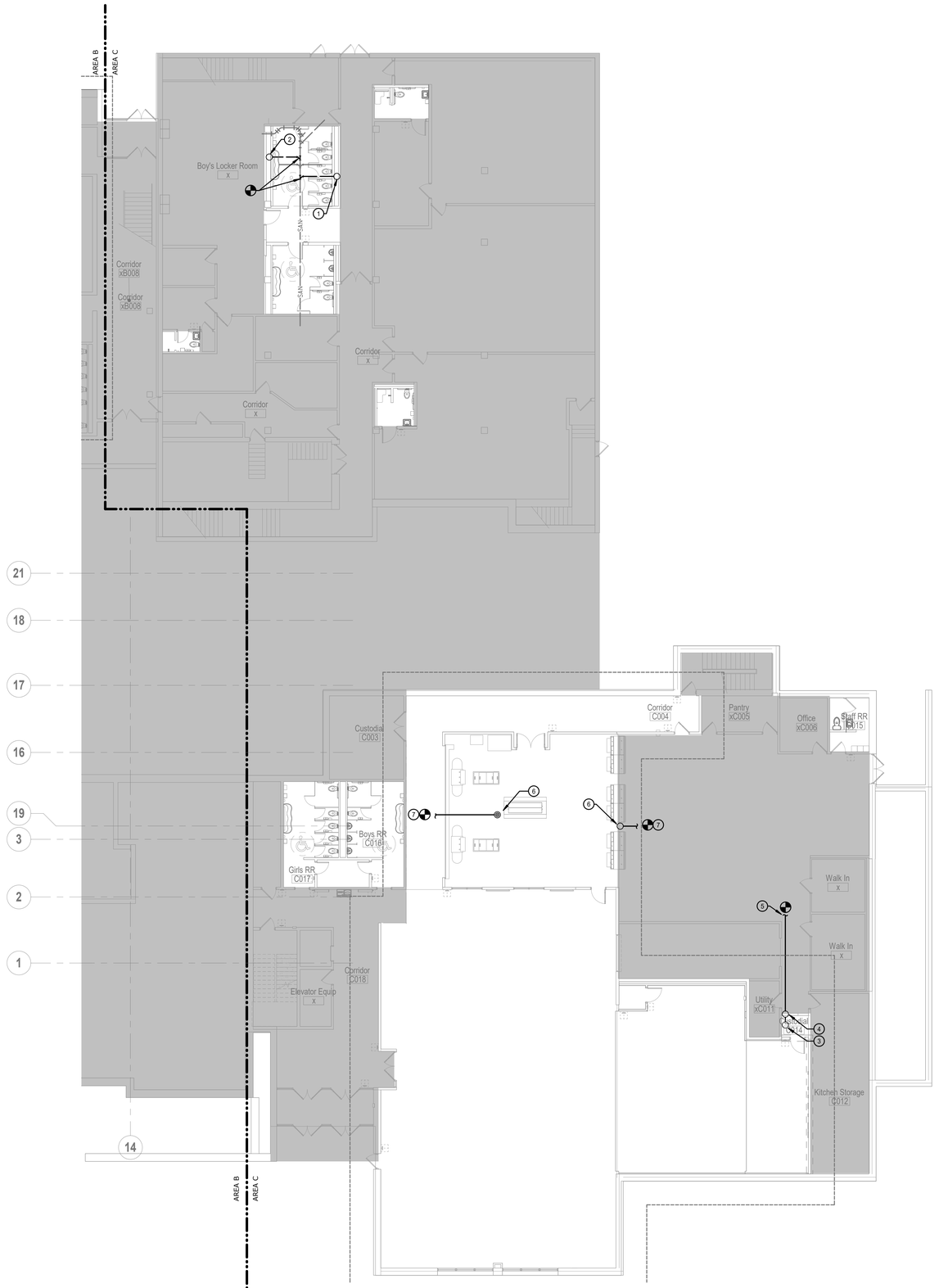

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON P001A.

PLAN NOTES:

1. 4" SAN UP THRU FLOOR IN CHASE TO SERVE PLUMBING FIXTURES.
2. 2" SAN UP TO WASH FOUNTAIN.
3. 3" SAN UP TO JANITOR SINK.
4. 3" SAN UP TO 1-1/2" VENT.
5. EXTEND AND CONNECT 3" SANITARY TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
6. SAN UP TO CLEANOUT. MATCH EXISTING CLEANOUT SIZE. FIELD VERIFY EXACT SIZE AND LOCATION.
7. EXTEND AND CONNECT SANITARY PIPE FROM RELOCATED CLEANOUT TO THE EXISTING SANITARY MAIN. FIELD VERIFY SIZE AND EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

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ENGINEER
12/7/23

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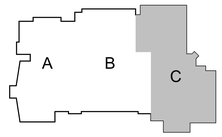

P001C

A1 | Scale 3/32" = 1'-0" | UNDERSLAB PLUMBING PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA C

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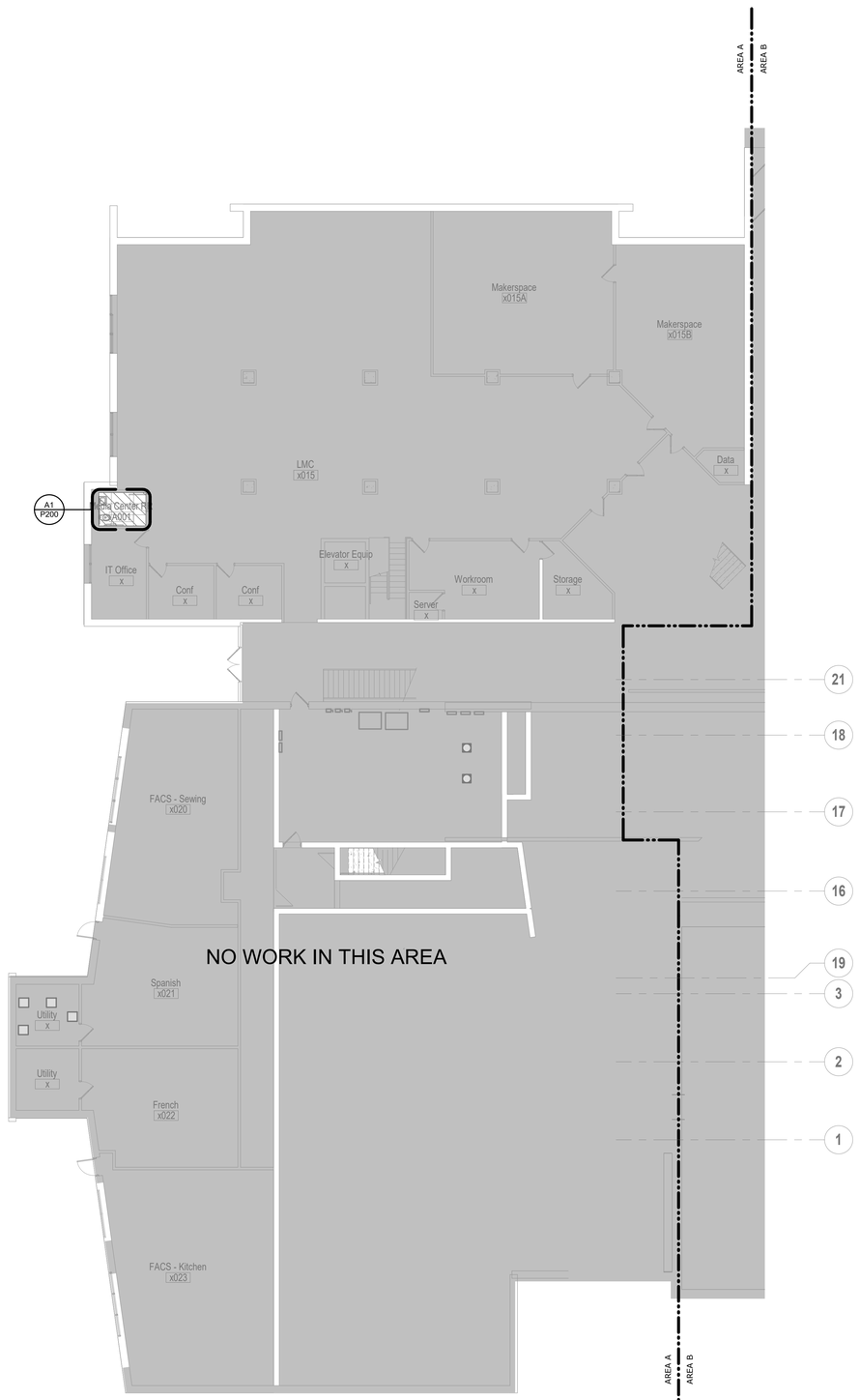

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO ESTABLISH THE EXTENT OF THE NEW WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
2. SERVICES SHOWN WITH HALF TONE ARE EXISTING. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
3. RELOCATE AND/OR INSTALL SPRINKLER HEADS AS REQUIRED TO INSTALL NEW DIFFUSERS, LIGHT FIXTURES, AND OTHER CEILING DEVICES. CONFIGURE TO NEW OFFICE LAYOUTS. HEADS SHALL BE INSTALLED AS CLOSE TO CENTER OF CEILING TILE AS POSSIBLE. SPACING SHALL NOT EXCEED NFPA LIMITS. PIPING SHALL BE SCH 40 STEEL FLEXIBLE HOSES TO BE USED FOR SPRINKLER HEAD PLACEMENT. PROVIDE CEILING CLIPS TO HOLD HEADS IN PLACE. COORDINATE ALL WORK WITH MECHANICAL AND ELECTRICAL SUBCONTRACTORS.
4. MECHANICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN ADEQUATE ELECTRICAL CLEARANCE AND MAINTENANCE CLEARANCE.
5. CEILING GRID TO BE MARKED WITH COLORED DOT TO INDICATE LOCATIONS SHUT-OFF VALVES PER BUILDING STANDARDS
6. ALL CORE DRILLING, SAW CUTTING, AND OTHER LOUD ACTIVITIES SHALL BE PERFORMED DURING OFF HOURS. EXAMINE SLAB AS REQUIRED BY SPECIFICATIONS. COORDINATE WITH BUILDING MANAGEMENT FOR OFF-HOURS ACCESS TO SPACES AS APPROVAL TO PROCEED.
7. LOCATE SHUT OFF VALVES ABOVE ACCESSIBLE CEILING LOCATIONS WHERE POSSIBLE. FURNISH AND INSTALL ACCESS PANELS IN WALLS AND INACCESSIBLE CEILINGS WHERE VALVES AND EQUIPMENT ARE PRESENT.
8. COPPER DOMESTIC WATER PIPING IS REQUIRED THROUGHOUT OUT THE BUILDING. WHERE MANUFACTURER SUPPLIED PLUMBING SYSTEMS INCLUDE TUBING, SUCH AS FILTRATION UNITS, A FLOODMASTER WATER SENSING SYSTEM TO AUTOMATICALLY SHUT OFF WATER IS REQUIRED TO BE PROVIDED. SYSTEM SHALL INCLUDE WATER SENSORS, CONTROLLER, AND SOLENOID VALVE.

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RYAN JEROD DIEDRICH — NUMBER A-2015006871 — STATE OF MISSOURI — REGISTERED PROFESSIONAL ENGINEER — 12/7/23

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project number 2314708

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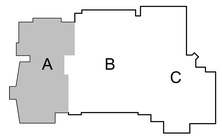

JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

P100A

A1 | Scale 3/32" = 1'-0" | PLUMBING PLAN - LEVEL 0 - AREA A

PROJECT NORTH / TRUE NORTH

PLUMBING PLAN - LEVEL 0 - AREA A

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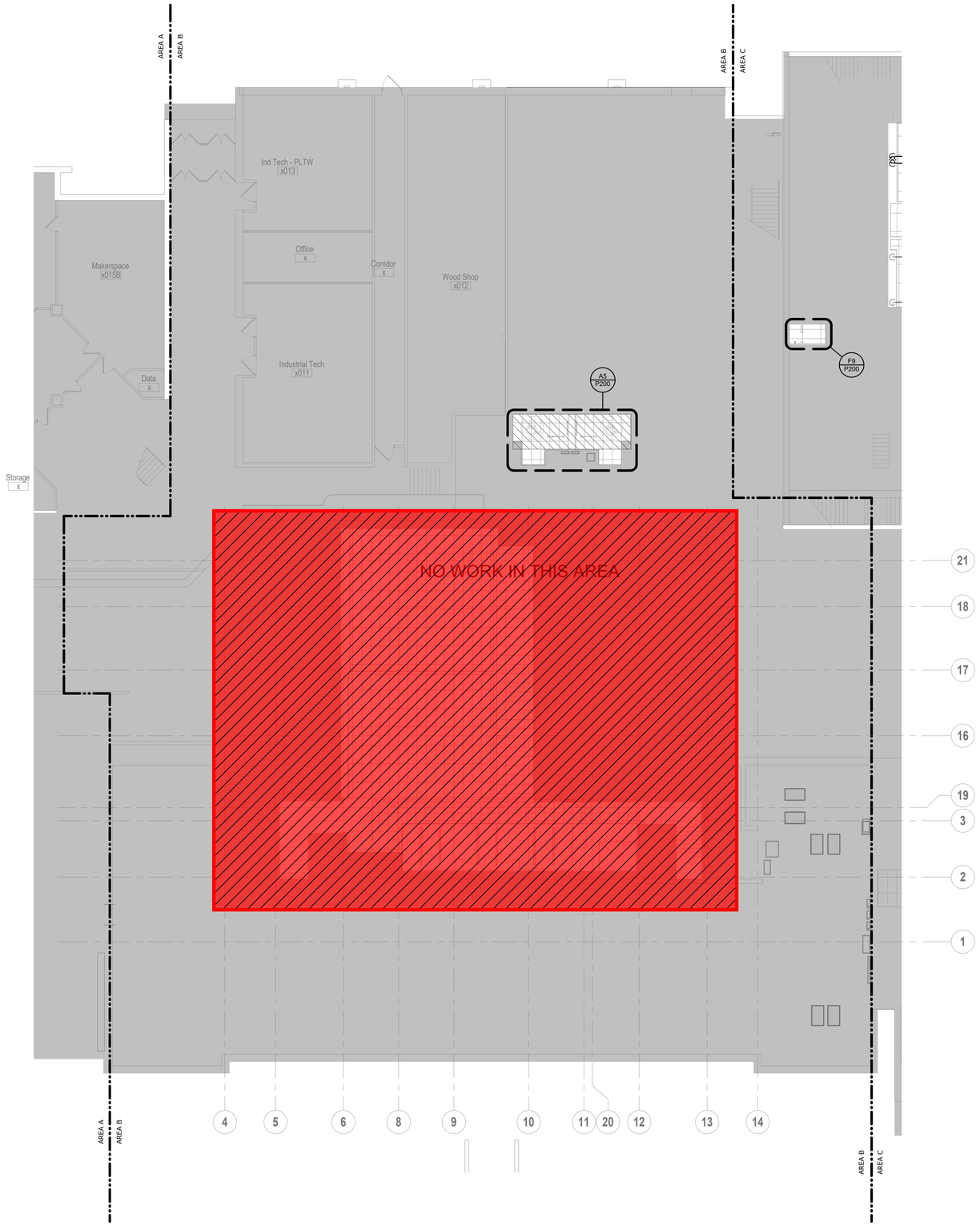

A1 | Scale 3/32" = 1'-0" | PLUMBING PLAN - LEVEL 0 - AREA B

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SHEET KEYNOTE LEGEND

GENERAL NOTES:

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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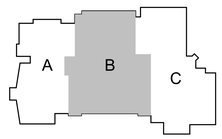

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P100B

PLUMBING PLAN - LEVEL 0 - AREA B

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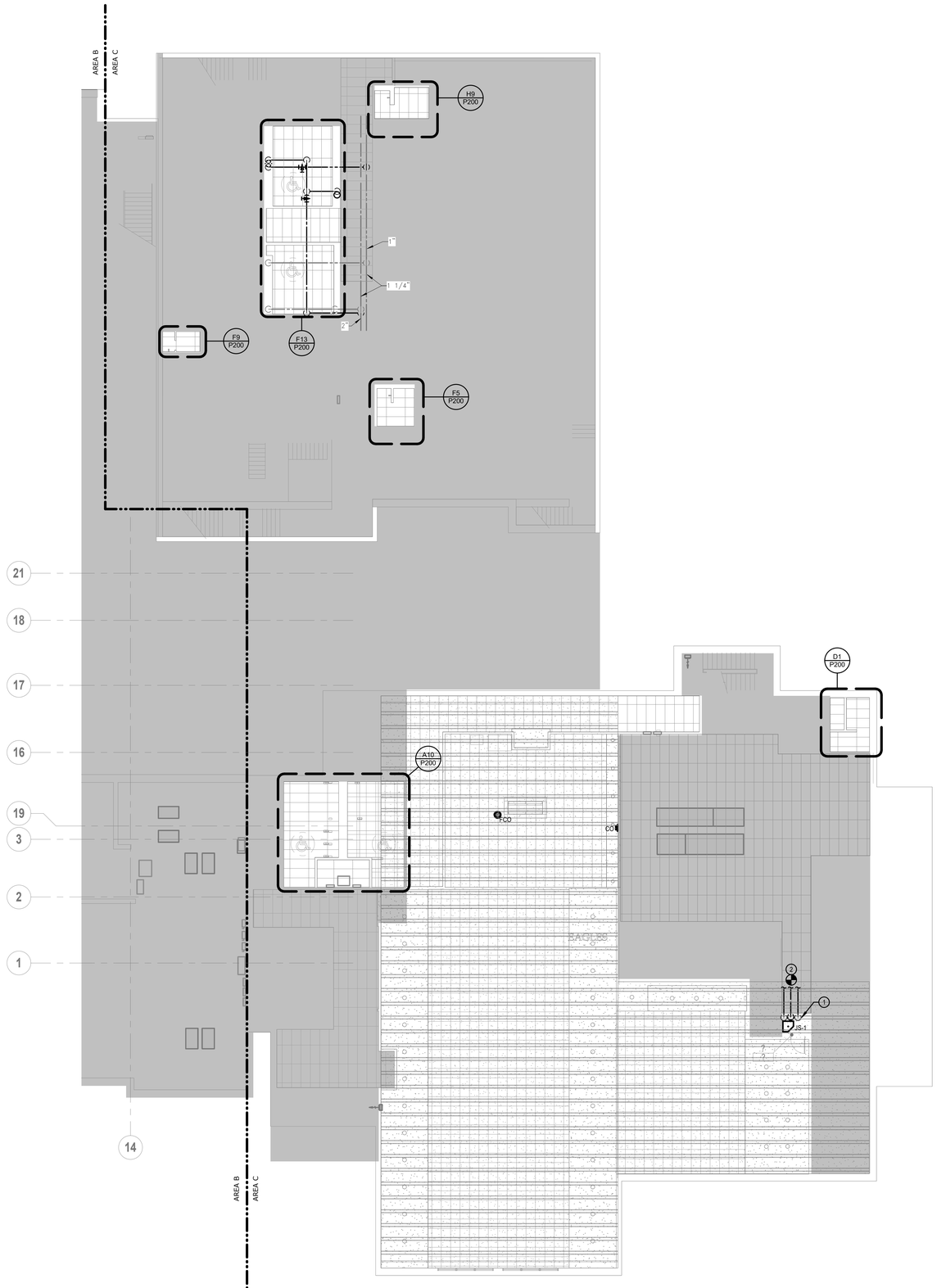

A1 | Scale 3/32" = 1'-0" | PLUMBING PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P001A.

PLAN NOTE:

1. 3/4" CW, 3/4" HW, 1-1/2" VENT DOWN TO JANITOR SINK.
2. EXTEND AND CONNECT 3/4" CW, 3/4" HW AND 1-1/2" VENT EXISTING CW, HW, VENT MAINS. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

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Heritage Middle School Renovations

Liberty Public Schools

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REVISIONS:

#	Description	Date



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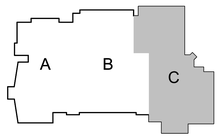
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

P100C

PLUMBING PLAN - LEVEL 0 - AREA C

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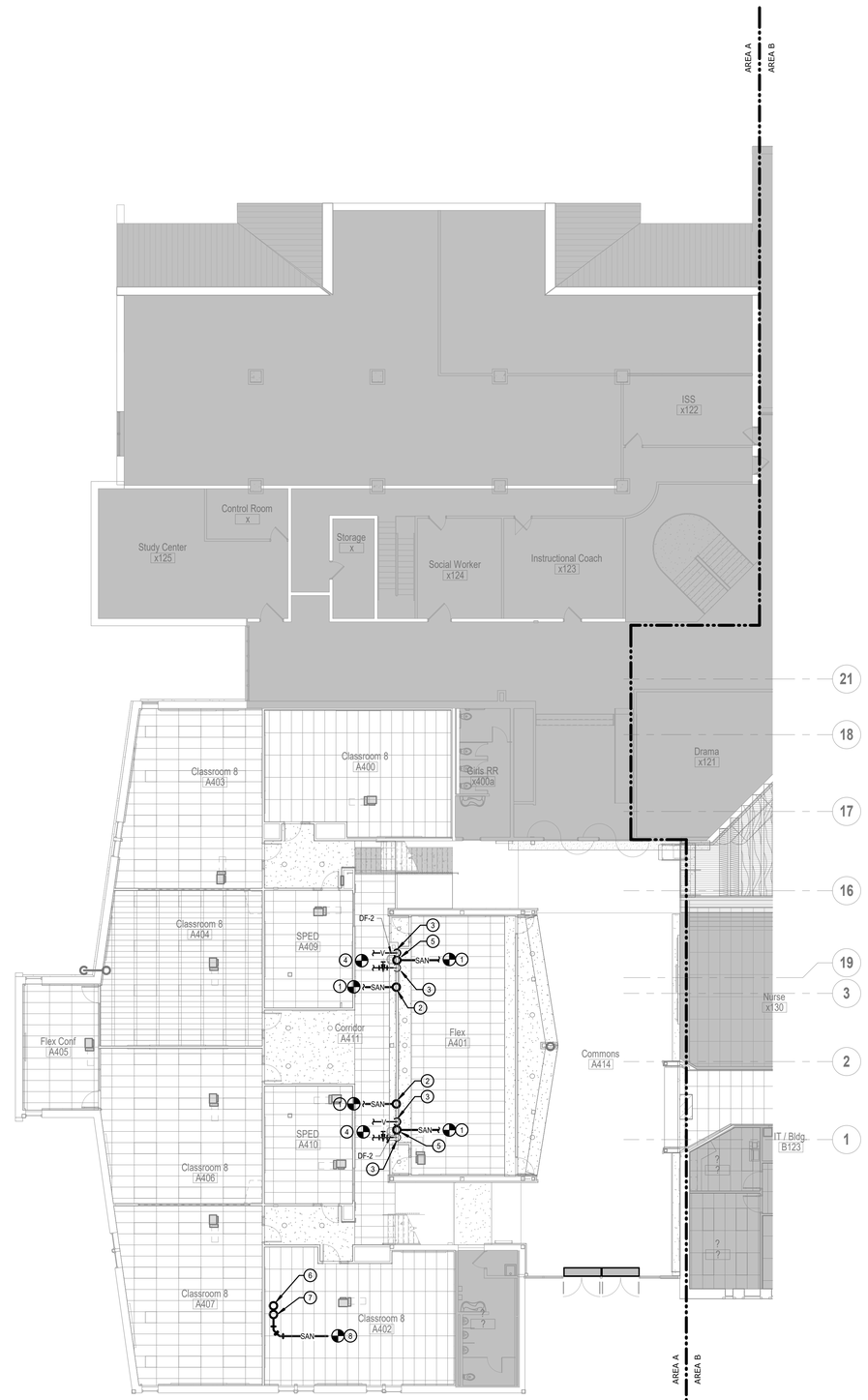

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P001A.

PLAN NOTE:

1. EXTEND AND CONNECT 2" SAN TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
2. 2" SAN UP TO SINK.
3. 1/2" CW AND 1-1/2" VENT DOWN TO DRINKING FOUNTAIN.
4. EXTEND AND CONNECT 1/2" CW AND 1-1/2" VENT TO EXISTING CW AND VENT MAINS. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
5. 2" SAN UP TO DRINKING FOUNTAIN.
6. 3" SAN UP TO JANITOR SINK.
7. 3" SAN UP TO 1-1/2" VENT.
8. EXTEND AND CONNECT 3" SANITARY TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

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REVISIONS:

#	Description	Date

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006871
ENGINEER
PROFESSIONAL
12/7/23

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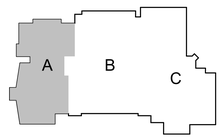
KEY PLAN



JOB NO: 23024
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DATE: 12.07.2023

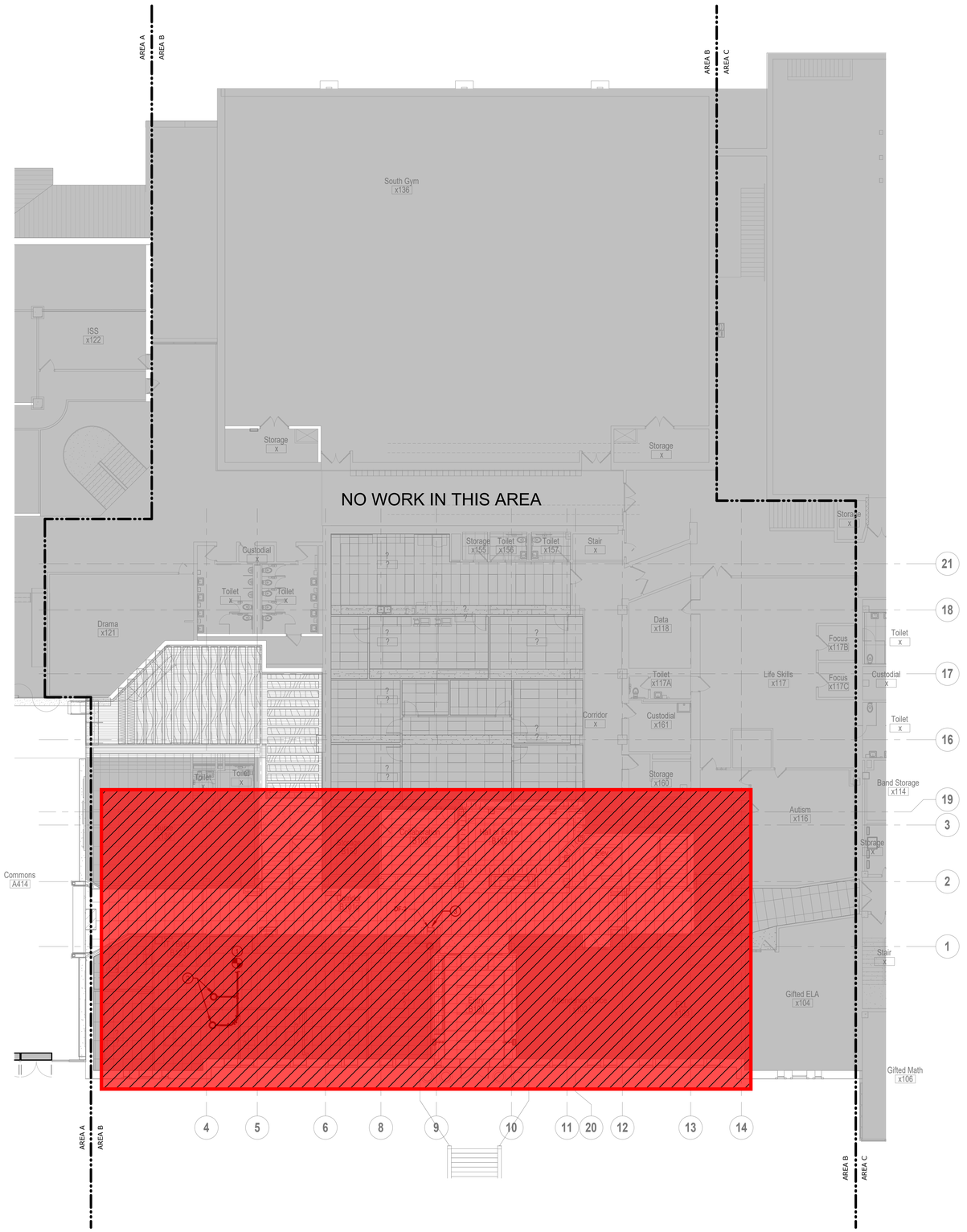
P101A

A1 | Scale 3/32" = 1'-0" | PLUMBING PLAN - LEVEL 1 - AREA A

PROJECT NORTH / TRUE NORTH

PLUMBING PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P001A.

PLAN NOTE:

1. EXTEND AND CONNECT 3" SAN TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION. PROVIDE AL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
2. 3" WASTE STACK VENT UP THRU FLOOW.
3. 3. CONNECT NEW DRINKING FOUNTAIN TO EXISTING ROUGH-IN. PROVIDE A SHUT OFF VALVE ON THE CW LINE. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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Heritage Middle School Renovations

Liberty Public Schools

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Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006871
PROFESSIONAL ENGINEER
12/7/23

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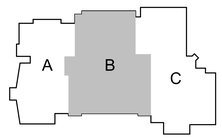
KEY PLAN



P101B

A1 | Scale 3/32" = 1'-0" | PLUMBING PLAN - LEVEL 1 - AREA B

PROJECT NORTH TRUE NORTH

PLUMBING PLAN - LEVEL 1 - AREA B

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SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P001A.

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REVISIONS:

#	Description	Date

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015036134
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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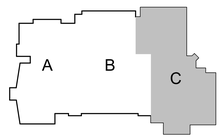
CHECKED BY: RJD
DATE: 12.07.2023

KEY PLAN



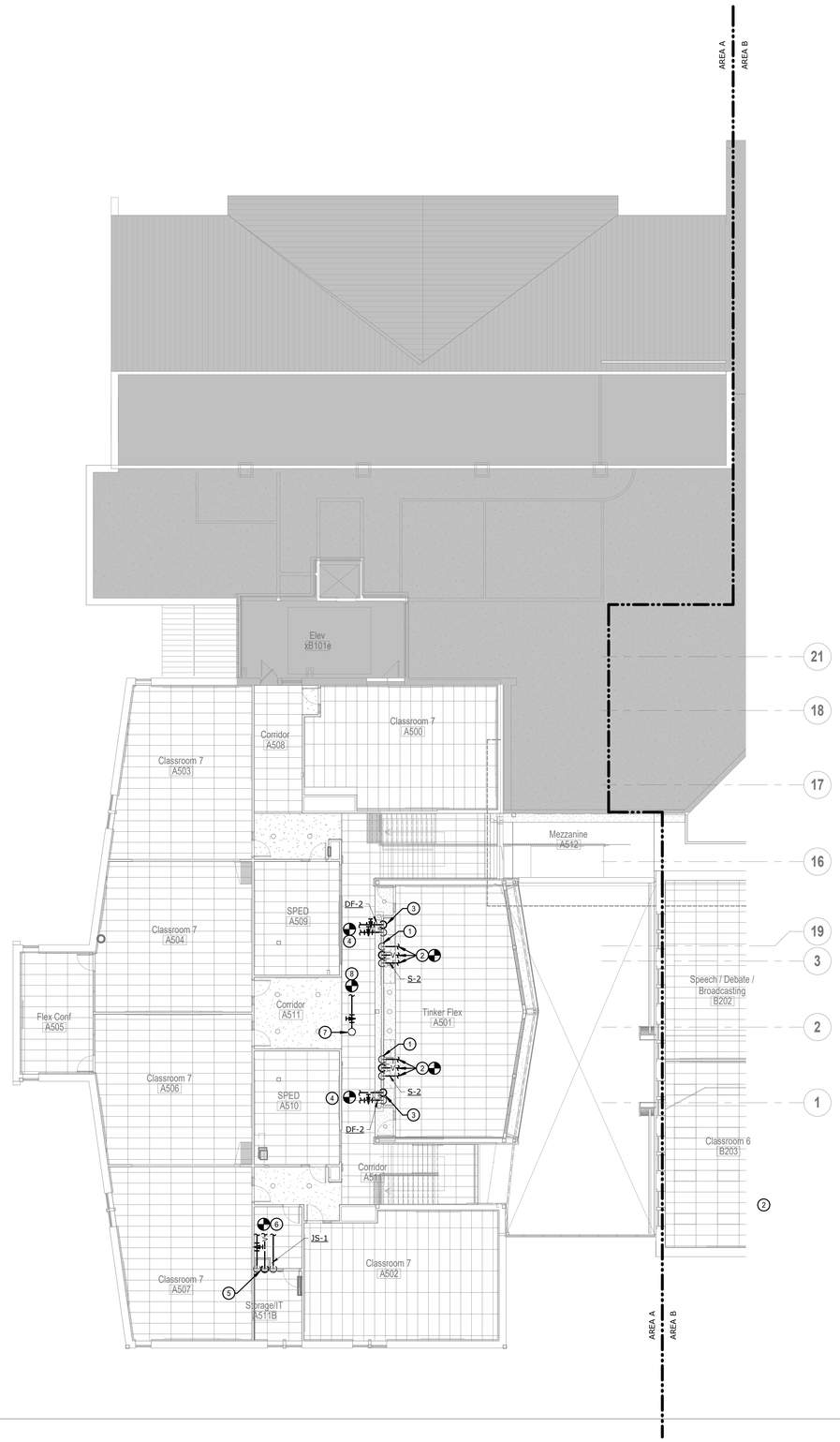
P101C

A1 | Scale 3/32" = 1'-0" | PLUMBING PLAN - LEVEL 1 - AREA C

PROJECT NORTH TRUE NORTH

PLUMBING PLAN - LEVEL 1 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P001A.

PLAN NOTES:

1. 1/2" CW, 1/2" HW AND 1-1/2" VENT DOWN TO SINK.
2. EXTEND AND CONNECT 3/4" CW, 3/4" HW AND 2" VENT TO EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER AND VENT. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
3. 1/2" CW AND 1-1/2" VENT DOWN TO DRINKING FOUNTAIN.
4. EXTEND AND CONNECT 1/2" CW AND 1-1/2" VENT TO EXISTING CW AND VENT MAINS. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
5. 3/4" CW, 3/4" HW, 1-1/2" VENT DOWN TO JANITOR SINK.
6. EXTEND AND CONNECT 3/4" CW, 3/4" HW AND 1-1/2" VENT EXISTING CW, HW, VENT MAINS. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
7. 3/4" CW UP TO ROOF HYDRANT.
8. EXTEND AND CONNECT 3/4" CW TO EXISTING CW MAIN. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

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Heritage Middle School Renovations

Liberty Public Schools

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REVISIONS:

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDRICH
NUMBER
2015006171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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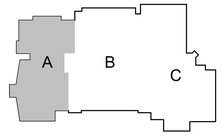

JOB NO: 23024
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CHECKED BY: RJD
DATE: 12.07.2023

P102A

A1 Scale 3/32" = 1'-0"

PLUMBING PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

PLUMBING PLAN - LEVEL 2 - AREA A

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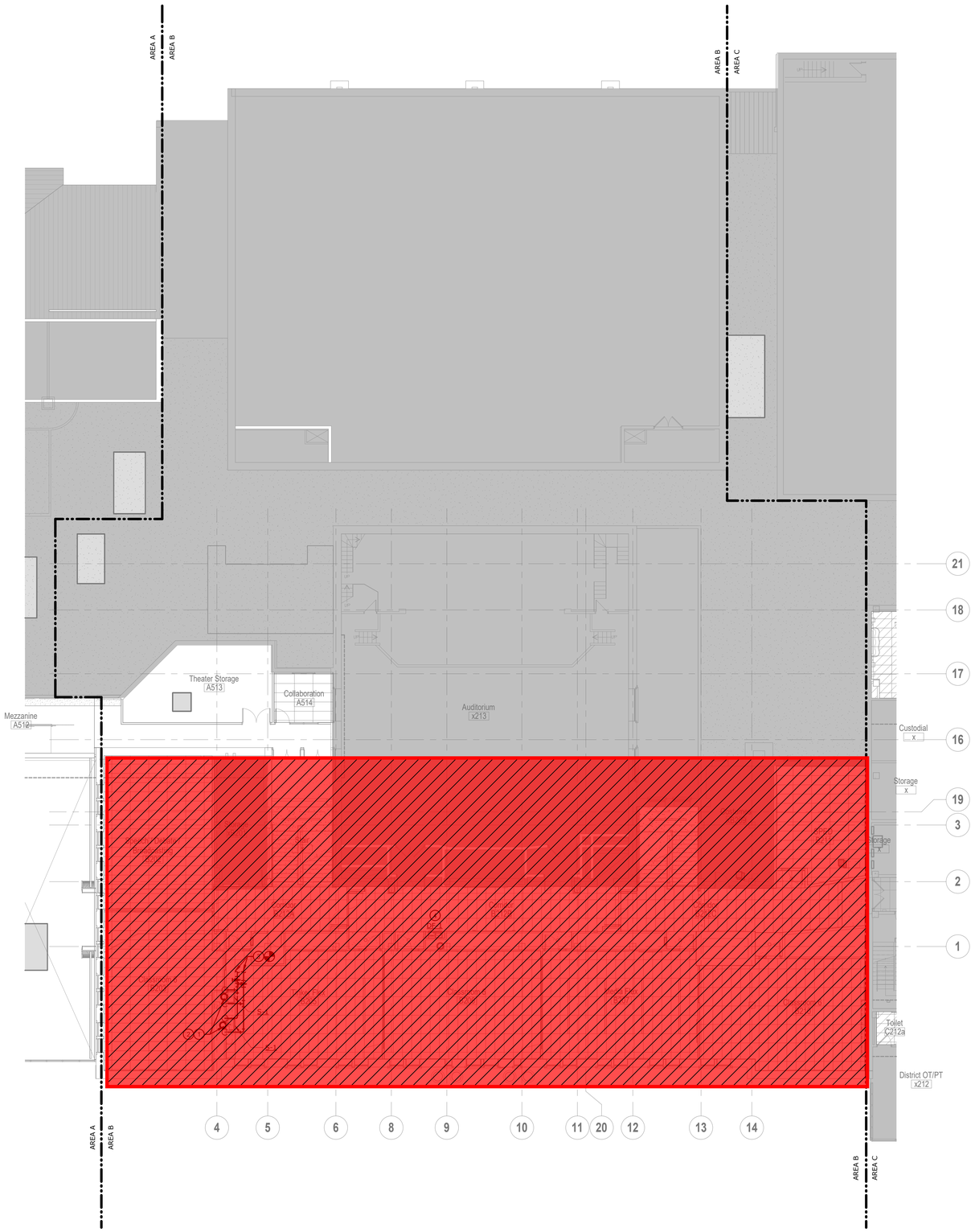


SHEET KEYNOTE LEGEND

GENERAL NOTES:

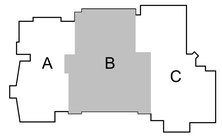
1. REFER TO GENERAL NOTES ON DP001A.

PLAN NOTES:

1. 1/2" CW AND 1/2" HW DOWN TO SINK.
2. 3" WASTE STACK VENT UP/DOWN THRU FLOORS.
3. EXTEND AND CONNECT 3/4" CW AND 3/4" HW TO EXISTING DOMESTIC COLD WATER AND DOMESTIC HOT WATER. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
4. INSTALL NEW DRINKING FOUNTAIN IN SAME LOCATION AS DEMOLISHED DRINKING FOUNTAIN. EXTEND EXISTING PLUMBING PIPING TO NEW DRINKING FOUNTAIN AS REQUIRED.

= Phase 2 Scope of Work
(Not included in this Bid Package)

KEY PLAN



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REVISIONS:

#	Description	Date

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NUMBER 2015040171
REGISTERED PROFESSIONAL ENGINEER
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P102B

A1 Scale 3/32" = 1'-0"

PLUMBING PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

PLUMBING PLAN - LEVEL 2 - AREA B

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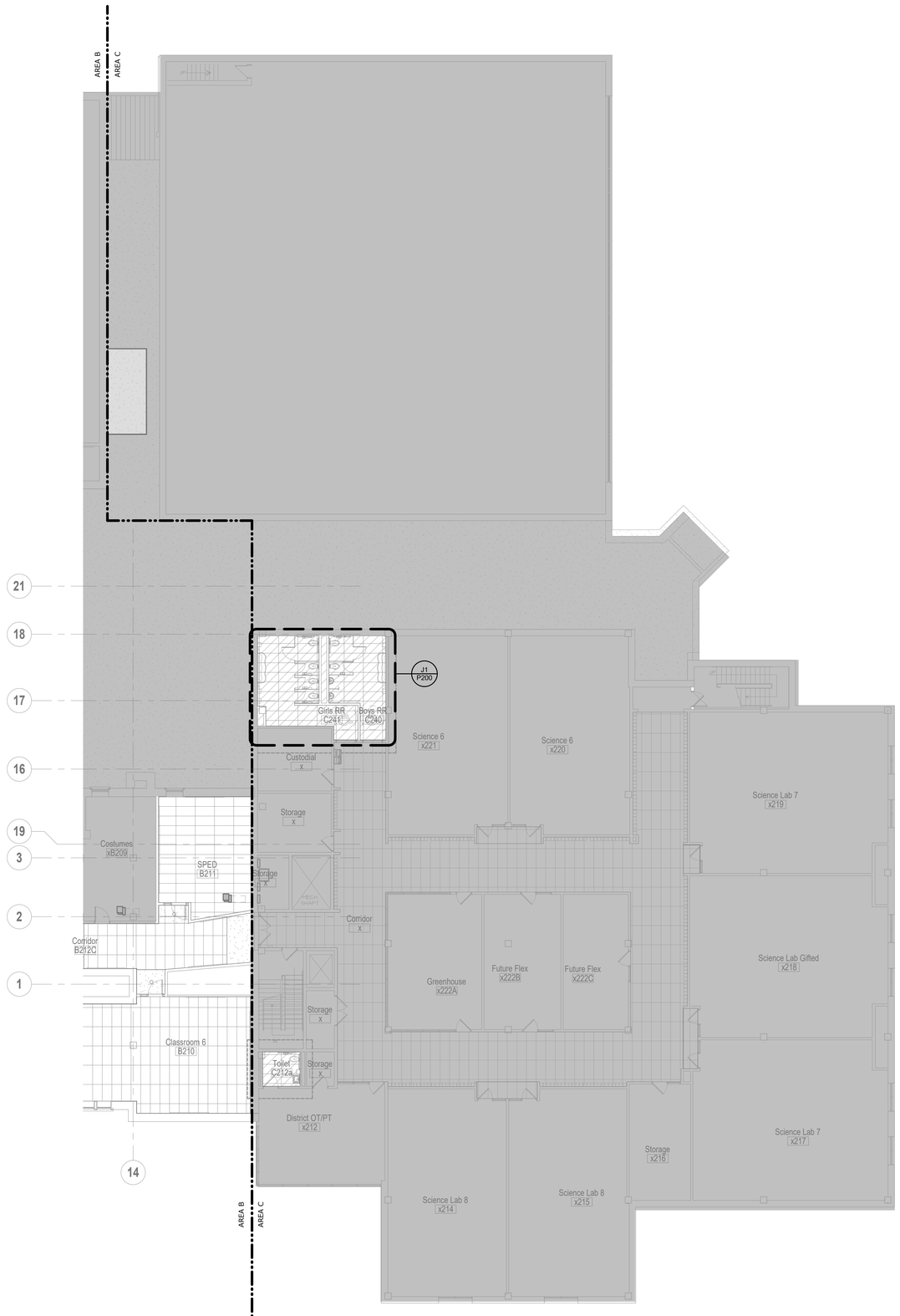
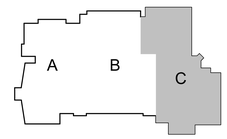


SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P001A.

KEY PLAN



PROJECT NORTH TRUE NORTH

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Structure # 2006031333

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REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008711
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
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P102C

A1 Scale 3/32" = 1'-0"

PLUMBING PLAN - LEVEL 2 - AREA C

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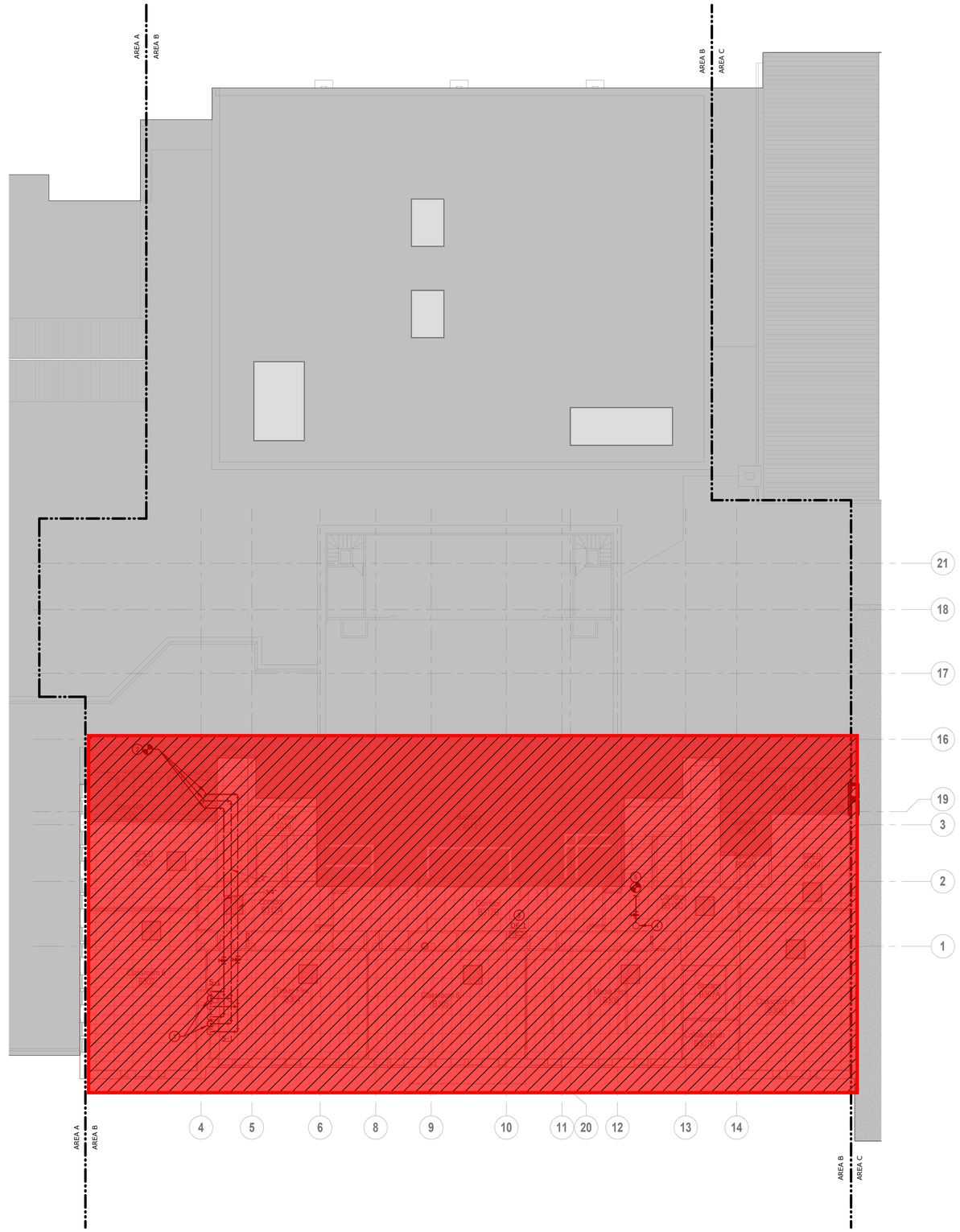

A1 | Scale 3/32" = 1'-0" | PLUMBING PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON DP001A.

PLAN NOTES:

1. 1/2" CW, 1/2" HW AND 1-1/2" VENT DOWN TO SINK.
2. EXTEND AND CONNECT 3/4" CW, 3/4" HW AND 2" VENT TO EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER AND VENT. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.
3. INSTALL NEW DRINKING FOUNTAIN IN EXTEND EXISTING PLUMBING PIPING TO NEW DRINKING FOUNTAIN AS REQUIRED.
4. 3/4" CW UP TO ROOF HYDRANT.
5. EXTEND AND CONNECT 3/4" CW TO EXISTING CW MAIN. FIELD VERIFY EXACT LOCATION. PROVIDE ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL DESIGN.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
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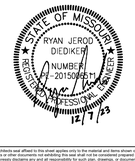
REVISIONS:

#	Description	Date



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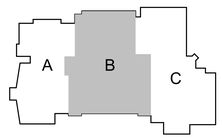
phone 913.345.2127 fax 913.345.0617
project number 2314708

KEY PLAN



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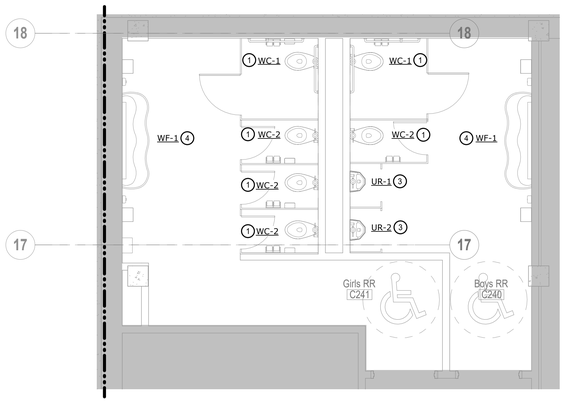
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

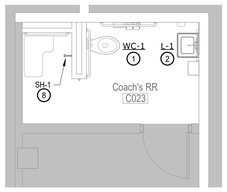
P103B

PLUMBING PLAN - LEVEL 3 - AREA B

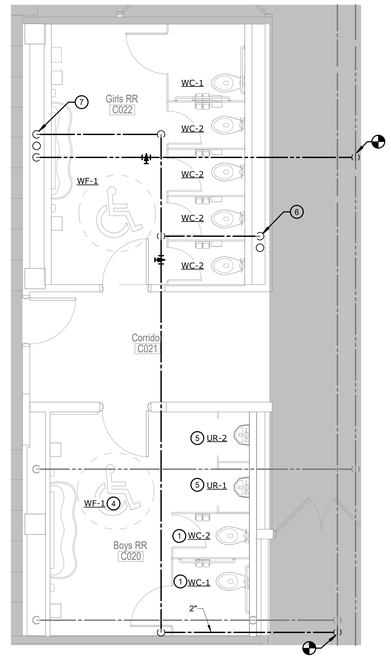
Please consider the environment before printing this.



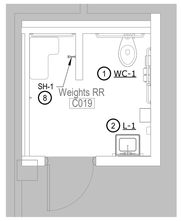
J1 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 2 - BOYS RR C240 & GIRLS RR C241



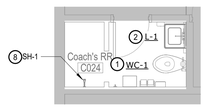
H9 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - COACH'S RR C023



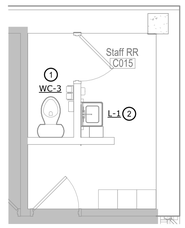
F13 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - BOYS RR C020 & GIRLS RR C022



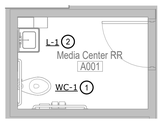
F5 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - WEIGHTS RR C019



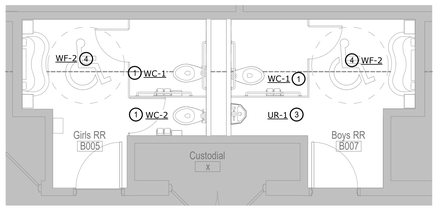
F9 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - COACH'S RR C024



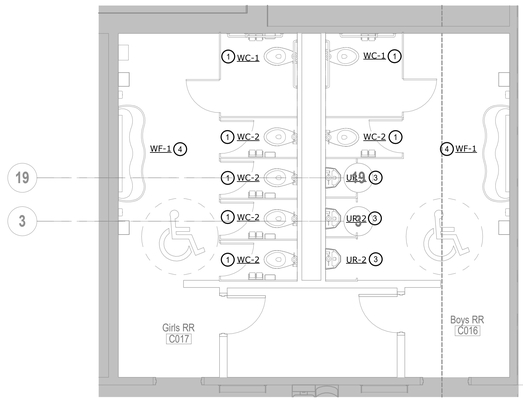
D1 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - STAFF RR C015



A1 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - MEDIA CENTER RR A001



A5 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - GIRLS RR B005 & BOYS RR B007



A10 | Scale 1/4" = 1'-0" | ENLARGED PLUMBING PLAN - LEVEL 0 - BOYS RR C016 & GIRLS RR C017

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON P001A.

PLAN NOTES:

1. INSTALL NEW WATER CLOSET IN SAME LOCATION AS DEMOLISHED WATER CLOSET. EXTEND EXISTING PLUMBING PIPING TO NEW WATER CLOSET AS REQUIRED.
2. INSTALL NEW LAVATORY IN SAME LOCATION AS DEMOLISHED LAVATORY. EXTEND EXISTING PLUMBING PIPING TO NEW LAVATORY AS REQUIRED.
3. INSTALL NEW URINAL IN SAME LOCAITON AS DEMOLISHED URINAL. EXTEND EXISTING PLUMBING PIPING TO NEW URINAL AS REQUIRED.
4. INSTALL NEW WASH FOUTAIN. PROVIDE NEW 1/2" CW, 1/2" HW AND 2" SAN PIPING FROM WASH FOUNTAIN TO EXISTING PLUMBING THAT SERVED DEMOLISHED LAVATORIES.
5. INSTALL NEW URINAL IN LOCATION SHOWN. EXTEND AND CONNECT NEW 3/4" CW, 1-1/2" V, AND 2" SAN TO EXISTING PLUMBING WITHIN CHASE.
6. 2" CW AND 2" V DOWN IN CHASE TO SERVE PLUMBING FIXTURES.
7. 1/2" CW, 1/2" HW, AND 1-1/2" V DOWN TO WASH FOUNTAIN.
8. INSTALL NEW SHOWER HEAD IN SAME LOCATION AS DEMOLISHED SHOWER HEAD. EXTEND EXISTING PLUMBING PIPING TO NEW SHOWER HEAD AS REQUIRED.

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER A-2015007577
PROFESSIONAL ENGINEER
12/7/23

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P200

ENLARGED PLUMBING PLANS

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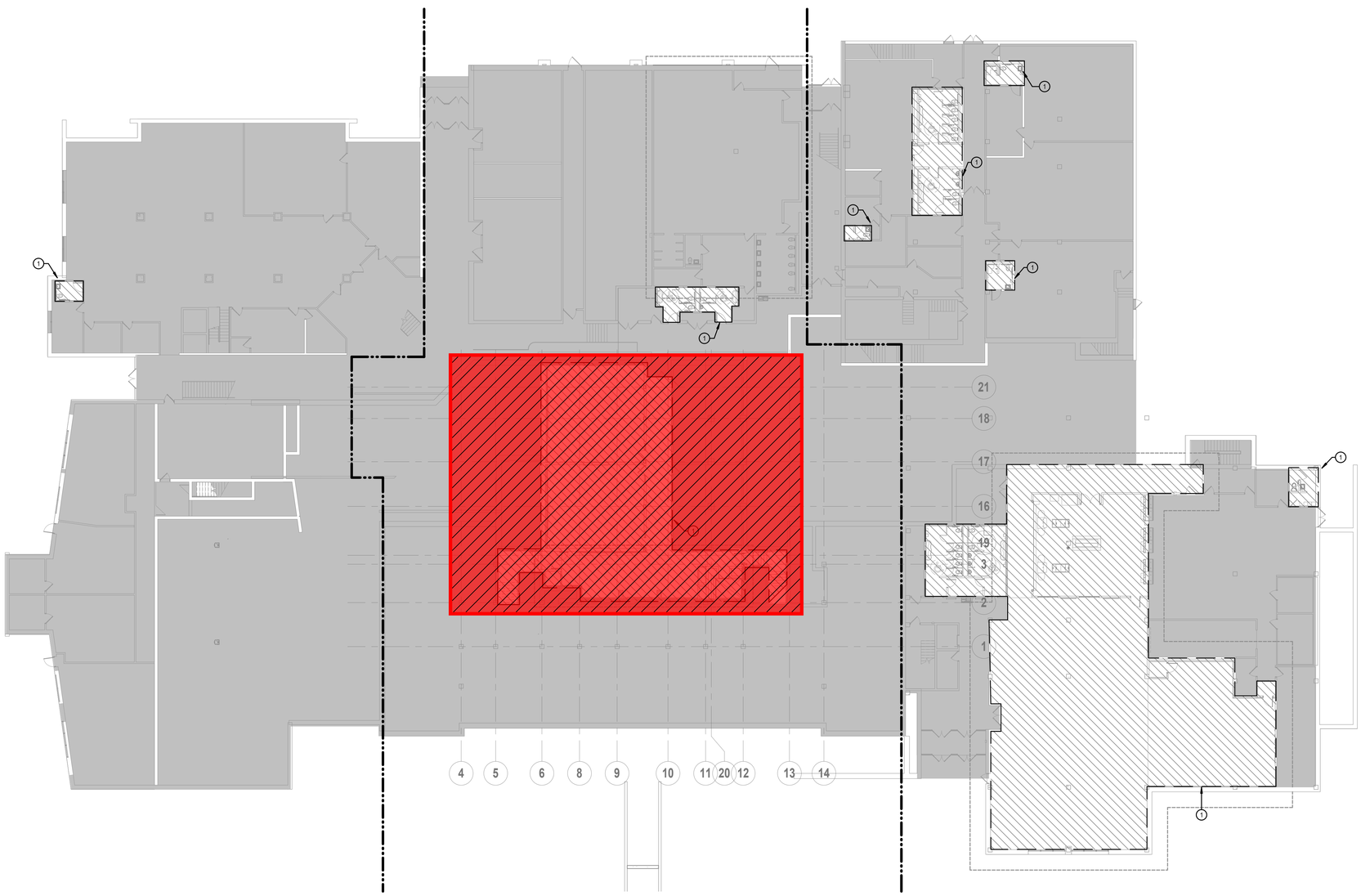

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. PROVIDE NFPA 13 COMPLIANT SPRINKLER SYSTEM FOR THE ENTIRE FACILITY.
   a. PROVIDE A MANUAL WET STANDPIPE SYSTEM.
2. CAREFULLY COORDINATE ALL SPRINKLER HEAD TYPES, COLOR, AND EXPOSED PIPING LOCATIONS WITH ARCHITECT FOR DESIRED AESTHETICS OF THE SPACES PRIOR TO INSTALLATION.
   a. REFER TO ARCHITECTURAL RCP LAYOUT FOR CEILING TYPES AND SPACES OPEN TO STRUCTURE.
   b. GYP. CEILINGS REQUIRE CONCEALED HEADS WITH COVER. WHITE COLOR FOR WHITE CEILNIGS. PROVIDE CUSTOM COLOR BY ARCHITECT.
   c. WOOD AND OTHER SPECIALTY CEILINGS SHALL USE CONCEALED HEADS WITH CUSTOM FINISH BY ARCHITECT.
   d. ACT CEILINGS PROVIDE SEMI-RECESSED PENDANT HEADS.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CAREFULLY COORDINATE PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
5. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
6. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.

PLAN NOTES:

(1) RELOCATE AND/OR INSTALL SPRINKLER HEADS AS REQUIRED TO INSTALL NEW DIFFUSERS AND CONFIGURE NEW CEILING LAYOUTS. HEADS SHALL BE INSTALLED AS CLOSE TO CENTER OF CEILING TILE AS POSSIBLE. SPACING SHALL NOT EXCEED NFPA LIMITS. PIPING SHALL BE SCH 40 STEEL FLEXIBLE HOSES TO BE USED FOR SPRINKLER HEAD PLACEMENT. PROVIDE CEILING CLIPS TO HOLD HEADS IN PLACE. COORDINATE ALL WITH WITH MECHANICAL AND ELECTRICAL SUBCONTRACTORS.

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Structure # 2006031333

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REVISIONS:

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER - 2015036871
ENGINEER
12/7/23

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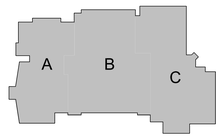
KEY PLAN



FP100

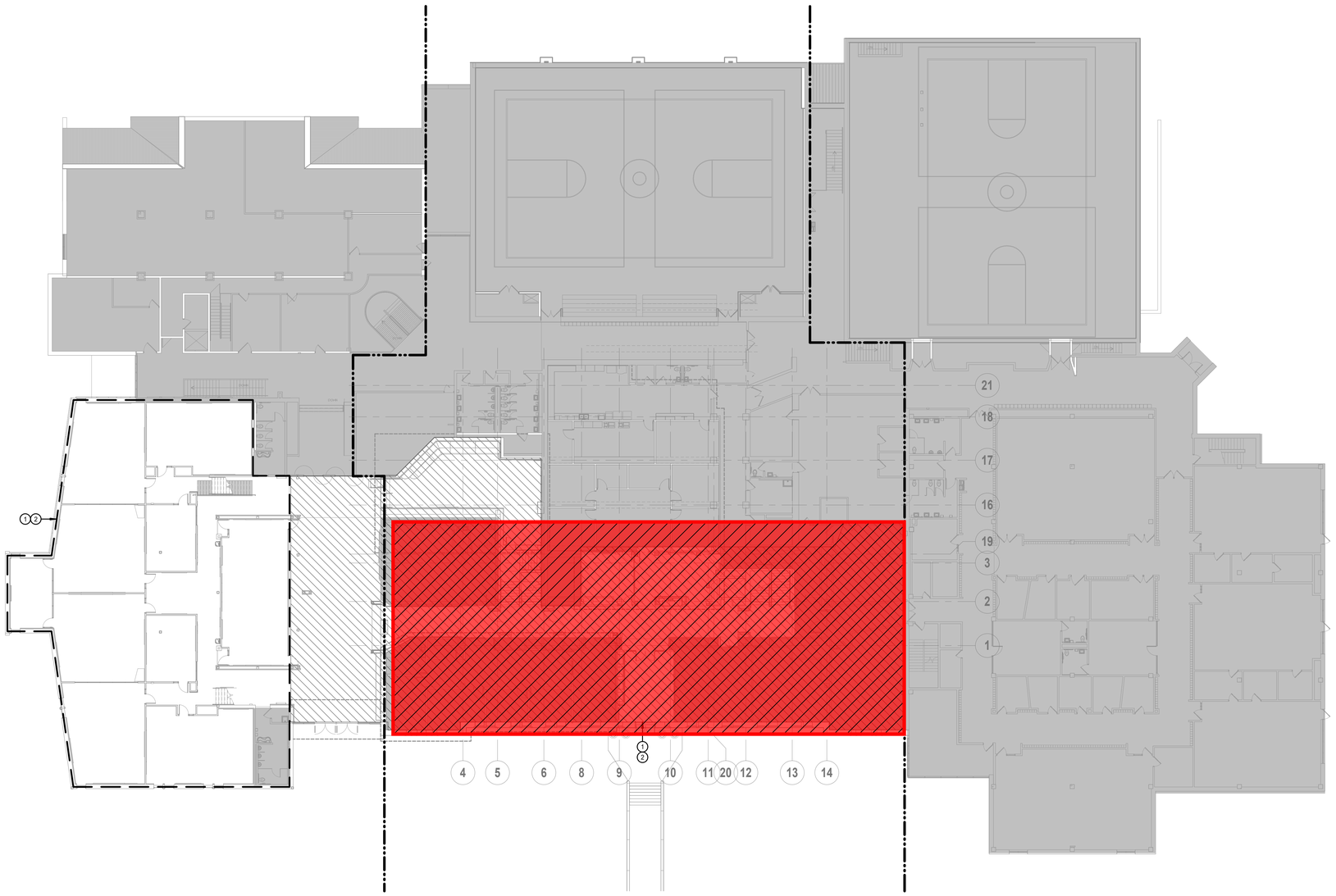
A1 | Scale 1/16" = 1'-0" | FIRE PROTECTION PLAN - LEVEL 0

16' 8' 0' 16'

PROJECT NORTH TRUE NORTH

FIRE PROTECTION PLAN - LEVEL 0

Please consider the environment before printing this.



A1 | Scale 1/16" = 1'-0" | FIRE PROTECTION PLAN - LEVEL 1

16' 8' 0' 16'

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON FP100.

PLAN NOTES:

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2. UTILIZE EXISTING FIRE PROTECTION LINES TO PROVIDE FULL FIRE PROTECTION COVERAGE FOR THIS FLOOR. FIRE PROTECTION CONTRACTOR SHOULD FIELD VERIFY ALL REQUIREMENTS.

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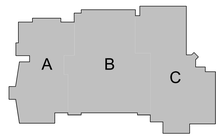

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FP101

FIRE PROTECTION PLAN - LEVEL 1

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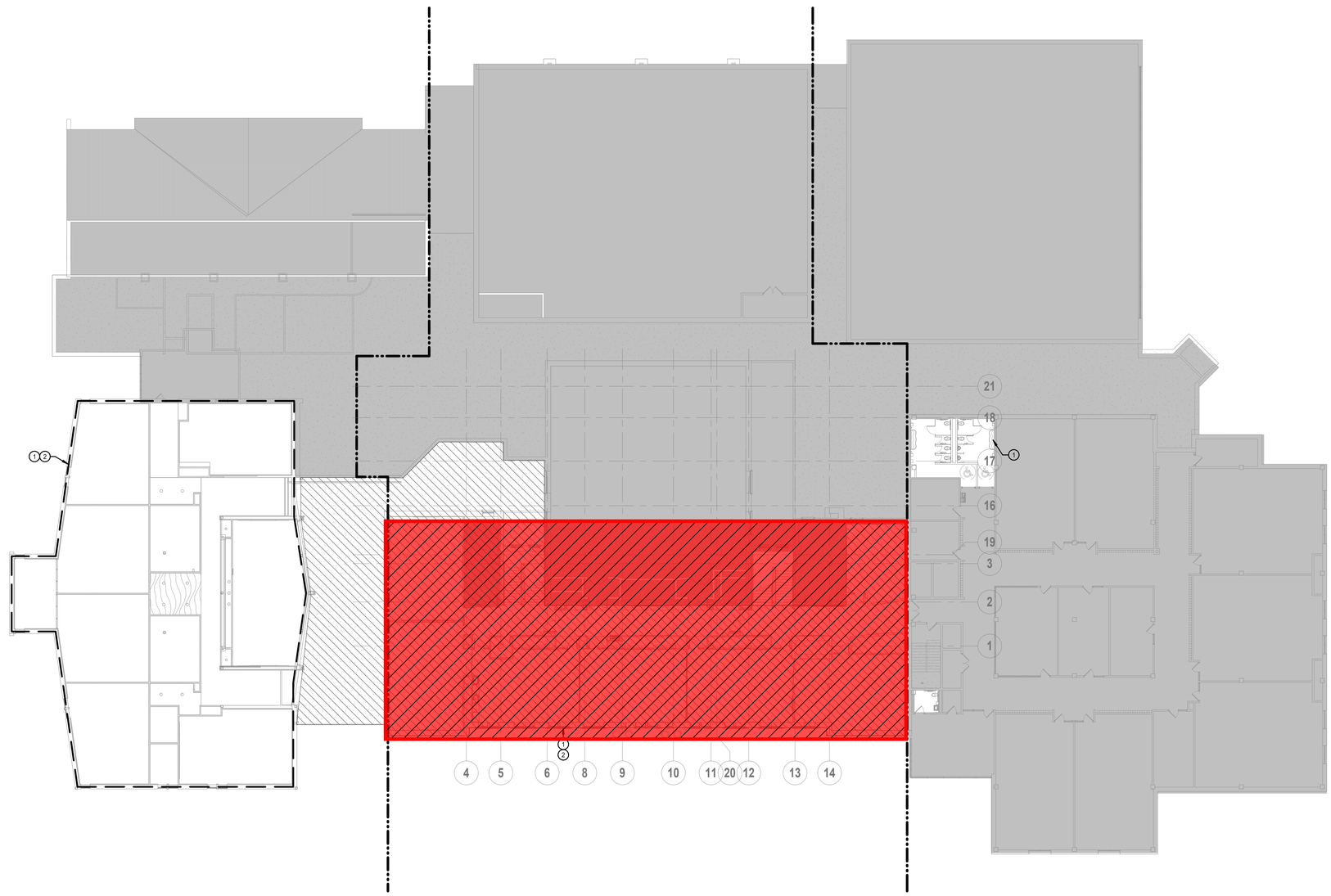


SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON FP100.

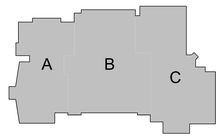
PLAN NOTES:

(1) RELOCATE AND/OR INSTALL SPRINKLER HEADS AS REQUIRED TO INSTALL NEW DIFFUSERS AND CONFIGURE NEW CEILING LAYOUTS. HEADS SHALL BE INSTALLED AS CLOSE TO CENTER OF CEILING TILE AS POSSIBLE. SPACING SHALL NOT EXCEED NFPA LIMITS. PIPING SHALL BE SCH 40 STEEL FLEXIBLE HOSES TO BE USED FOR SPRINKLER HEAD PLACEMENT. PROVIDE CEILING CLIPS TO HOLD HEADS IN PLACE. COORDINATE ALL WITH WITH MECHANICAL AND ELECTRICAL SUBCONTRACTORS.

(2) UTILIZE EXISTING FIRE PROTECTION LINES TO PROVIDE FULL FIRE PROTECTION COVERAGE FOR THIS FLOOR. FIRE PROTECTION CONTRACTOR SHOULD FIELD VERIFY ALL REQUIREMENTS.

= Phase 2 Scope of Work
(Not included in this Bid Package)

KEY PLAN



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NUMBER 2015036671
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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FP102

A1 | Scale 1/16" = 1'-0" | FIRE PROTECTION PLAN - LEVEL 2

16' 8' 0' 16'

PROJECT NORTH TRUE NORTH

FIRE PROTECTION PLAN - LEVEL 2

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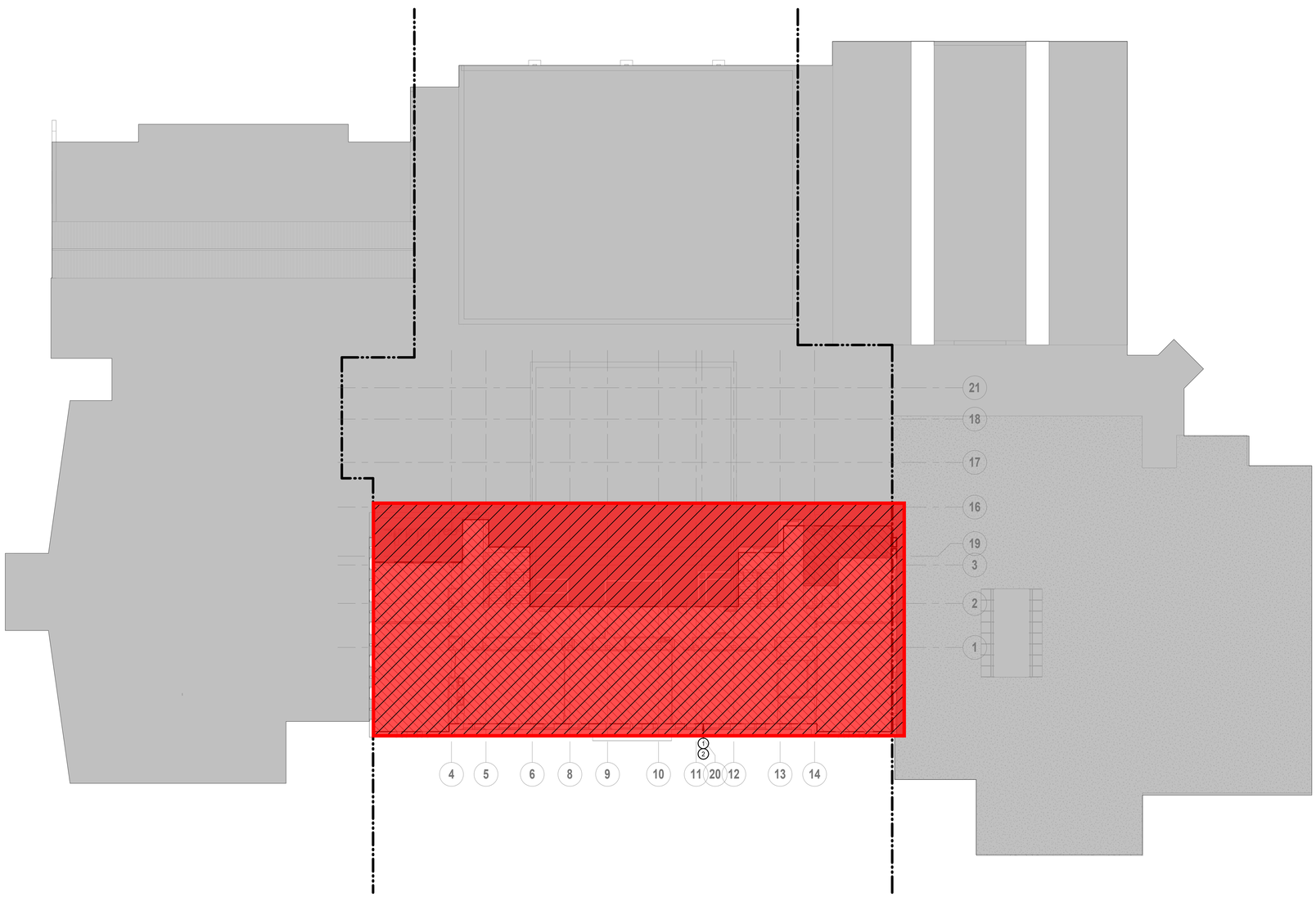

A1 | Scale 1/16" = 1'-0" | FIRE PROTECTION PLAN - LEVEL 3

16' 8' 0' 16'

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON FP100.

PLAN NOTES:

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REVISIONS:

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project number 2314708

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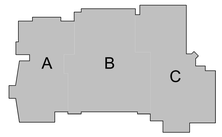
KEY PLAN



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FP103

FIRE PROTECTION PLAN - LEVEL 3

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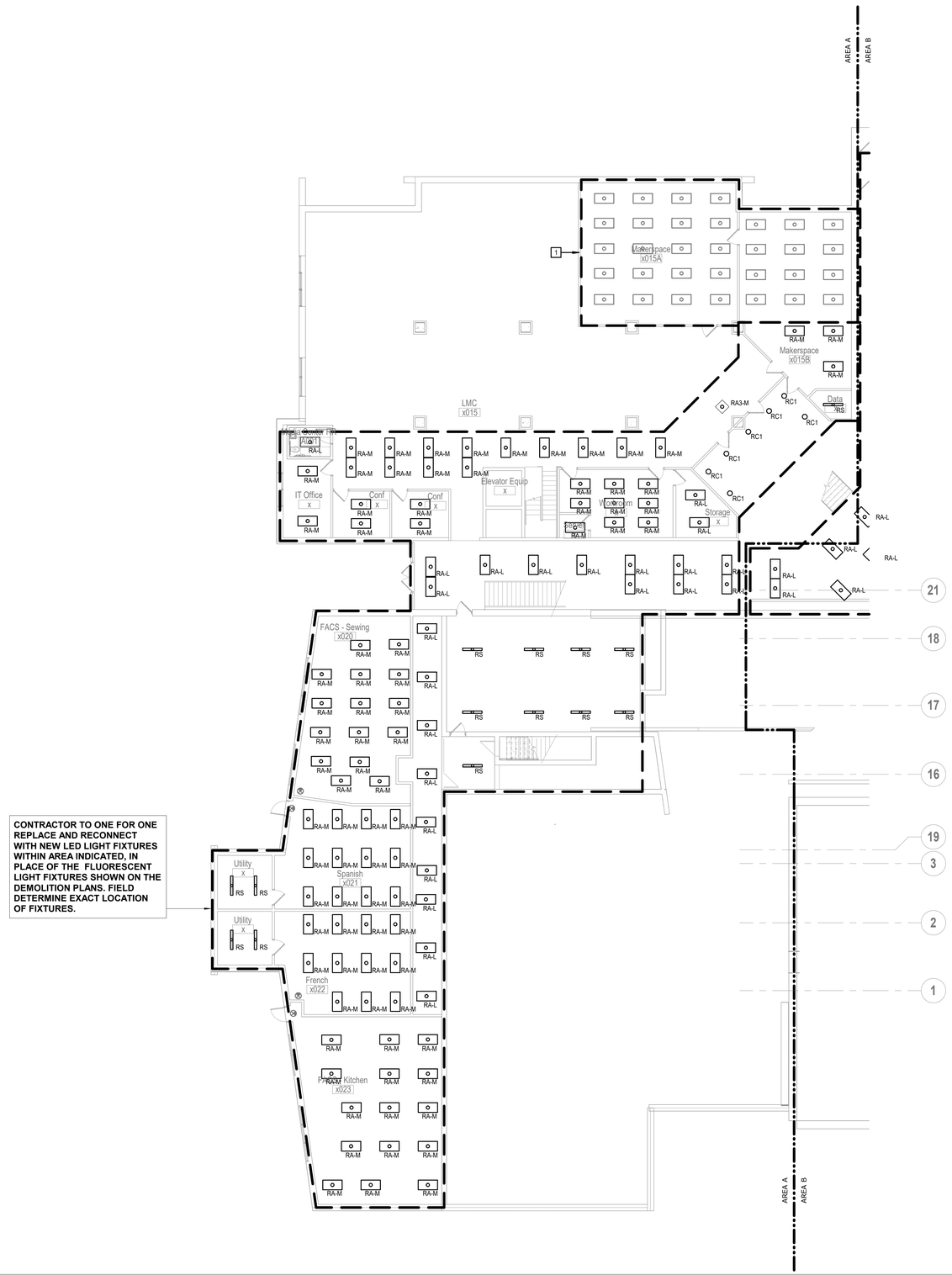


CONTRACTOR TO ONE FOR ONE REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES WITHIN AREA INDICATED, IN PLACE OF THE FLUORESCENT LIGHT FIXTURES SHOWN ON THE DEMOLITION PLANS. FIELD DETERMINE EXACT LOCATION OF FIXTURES.

SHEET KEYNOTE LEGEND

TYPICAL LIGHTING GENERAL NOTES:

1. FURNISH AND INSTALL ALL REQUIRED LOW VOLTAGE CONTROL WIRING BETWEEN OCCUPANCY SENSORS, POWER PACKS, WALL SWITCHES, ROOM CONTROLLERS, RELAY PANELS, ETC. WITHIN EACH SPACE AS REQUIRED. REFER TO LIGHTING CONTROL REQUIREMENTS AND DESCRIPTIONS SCHEDULE FOR ADDITIONAL INSTALLATION INFORMATION AND REQUIREMENTS. LIGHTING CONTROL CABLE SHALL BE GREEN IN COLOR.
2. CIRCUIT ALL BATTERIES PROVIDED WITH ANY LIGHT FIXTURE, OR STAND ALONE BATTERY POWERED EMERGENCY LIGHT FIXTURES, TO THE UNSWITCHED NORMAL POWER LIGHTING CIRCUIT WITHIN THE ROOM.
3. REFER TO ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF ALL LIGHT FIXTURES AND WALL MOUNTED ELECTRICAL DEVICES. LOCATIONS SHOWN ON MEP SHEET ARE DIAGRAMMATIC IN LOCATION.
4. COORDINATE ALL LIGHT FIXTURE WITH MECHANICAL EQUIPMENT AND DUCTWORK PRIOR TO INSTALLATION.
5. ALL SERVICES SHOWN WITH HALF TONE LINE WEIGHT ARE EXISTING.
6. AT THE COMPLETION OF THE PROJECT, CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL BOARD REGISTRIES FOR ALL PANEL BOARDS UTILIZED IN THIS PROJECT.
7. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS: (UNLESS SPECIFICALLY NOTED OTHERWISE.)

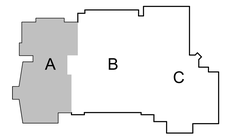
   0-100'=#12 AWG
   101-150'=#10 AWG
   150-205'=#8 AWG

   GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED

PLAN NOTES:

1 PROVIDE FLUORESCENT TO LED CONVERSION OF EXISTING PARABOLIC TROFFERS. PROVIDE LED T8 TYPE LAMPS AS MANUFACTURED BY TCP (OR EQUAL). LAMPS SHALL BE 3500K, 15W, 2100 LUMENS, WITH 3 LAMPS PER FIXTURE. BYPASS THE FIXTURES FLUORESCENT BALLAST PER THE LED LAMP MANUFACTURER DIRECTIONS. FIELD DETERMINE LAMP REQUIREMENTS AND COMPATIBILITY WITH EXISTING FIXTURES FOR PROPER LAMP REPLACEMENT/ORDERING.

KEY PLAN



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Architecture # 0000161
Structure # 2006031333

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phone 913.345.2127 fax 913.345.0617
project number 2314708

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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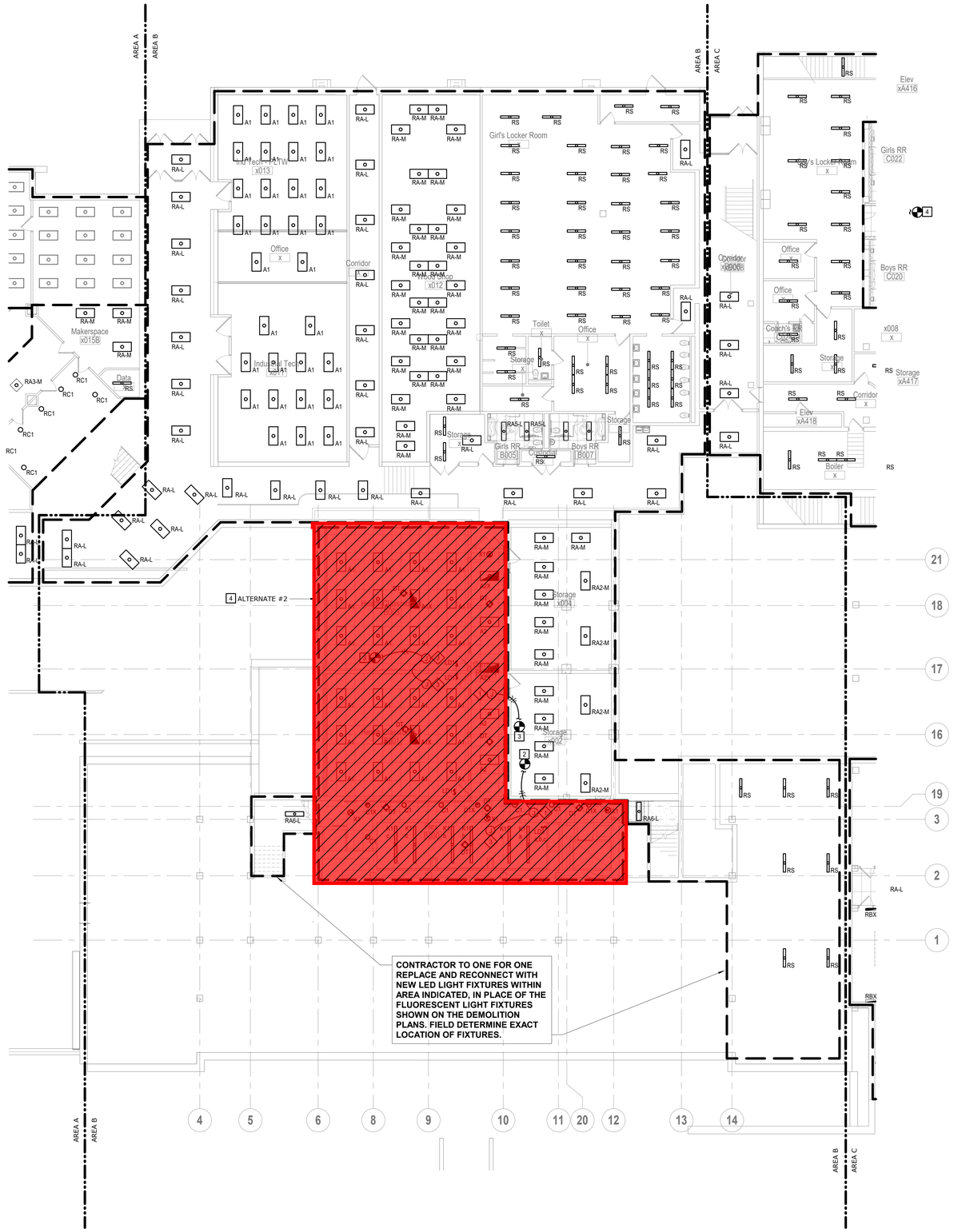
JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

E100A

A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED TO CIRCUIT LIGHT FIXTURE(S) AND LIGHTING CONTROLS TO EXISTING CORRIDOR LIGHTING CIRCUIT. FIELD DETERMINE EXACT CONDITIONS.
2. FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED TO CIRCUIT LIGHT FIXTURE(S) AND LIGHTING CONTROLS TO EXISTING CORRIDOR/ LOCKER LIGHTING CIRCUIT. FIELD DETERMINE EXACT CONDITIONS.
3. FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED TO CIRCUIT LIGHT FIXTURE(S) AND LIGHTING CONTROLS TO EXISTING CLASSROOM LIGHTING CIRCUIT. FIELD DETERMINE EXACT CONDITIONS.
4. BASE BID SHALL INLUDE ONE FOR ONE REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES WITHIN AREA INDICATED, IN PLACE OF THE FLUORESCENT LIGHT FIXTURES SHOWN ON THE DEMOLITION PLANS FOR THIS AREA. FIELD DETERMINE EXACT LOCATION OF FIXTURES. CLASSROOM FIXTURES (35 TOTAL) SHALL BE TYPE "RA-M". CORRIDOR FIXTURES (6 TOTAL) SHALL BE TYPE "RA-L". FLEX FIXTURES (6 TOTAL) SHALL BE TYPE "RA-L".

= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006571
PROFESSIONAL ENGINEER
12/7/23

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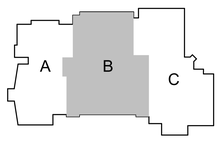
project number 2314708

JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

KEY PLAN



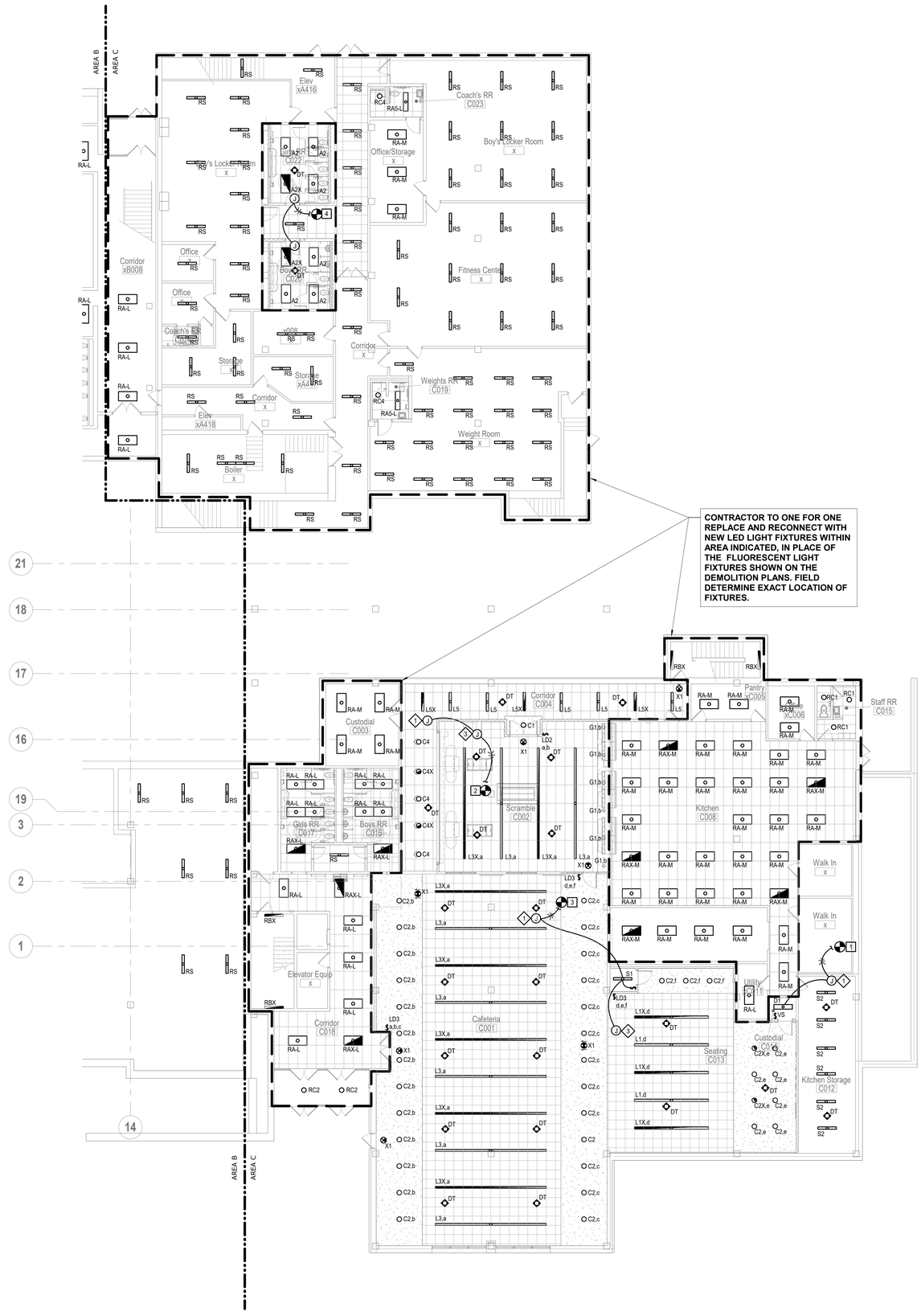
E100B

LIGHTING PLAN - LEVEL 0 - AREA B

A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED TO CIRCUIT LIGHT FIXTURE(S) AND LIGHTING CONTROLS TO EXISTING RESTROOM LIGHTING CIRCUIT. FIELD DETERMINE EXACT CONDITIONS.
2. FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED TO CIRCUIT LIGHT FIXTURE(S) AND LIGHTING CONTROLS TO EXISTING SCRAMBLE LIGHTING CIRCUIT. FIELD DETERMINE EXACT CONDITIONS.
3. FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED TO CIRCUIT LIGHT FIXTURE(S) AND LIGHTING CONTROLS TO EXISTING CAFETERIA LIGHTING CIRCUIT. FIELD DETERMINE EXACT CONDITIONS.
4. FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED TO CIRCUIT LIGHT FIXTURE(S) AND LIGHTING CONTROLS TO EXISTING RESTROOM/ SHOWER LIGHTING CIRCUIT. FIELD DETERMINE EXACT CONDITIONS.

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REVISIONS:

#	Description	Date

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006511
ENGINEER
PROFESSIONAL
12/7/23

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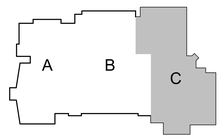
KEY PLAN



E100C

A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

LIGHTING PLAN - LEVEL 0 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

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TYPICAL LIGHTING GENERAL NOTES:

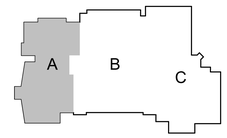
1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. FIELD DETERMINE EXISTING RESTROOM LIGHTING VOLTAGE AND EXISTING CIRCUITING. IF REQUIRED, MAINTAIN CIRCUIT CONTINUITY AND CIRCUIT WITH ADJACENT CLASSROOM LIGHTING CIRCUIT. EXISTING LIGHTING AND CONTROL TO REMAIN WITHIN RESTROOM.
2. COORDINATE WIRING AND INSTALLATION OF EXIT SIGN WITH STORE FRONT PROVIDER. CONDUIT AND WIRING SHALL BE CONCEALED.

= Phase 2 Scope of Work
(Not included in this Bid Package)

KEY PLAN



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project number 2314708

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
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REVISIONS:

#	Description	Date

STATE OF MISSOURI
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NUMBER A-2015006171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
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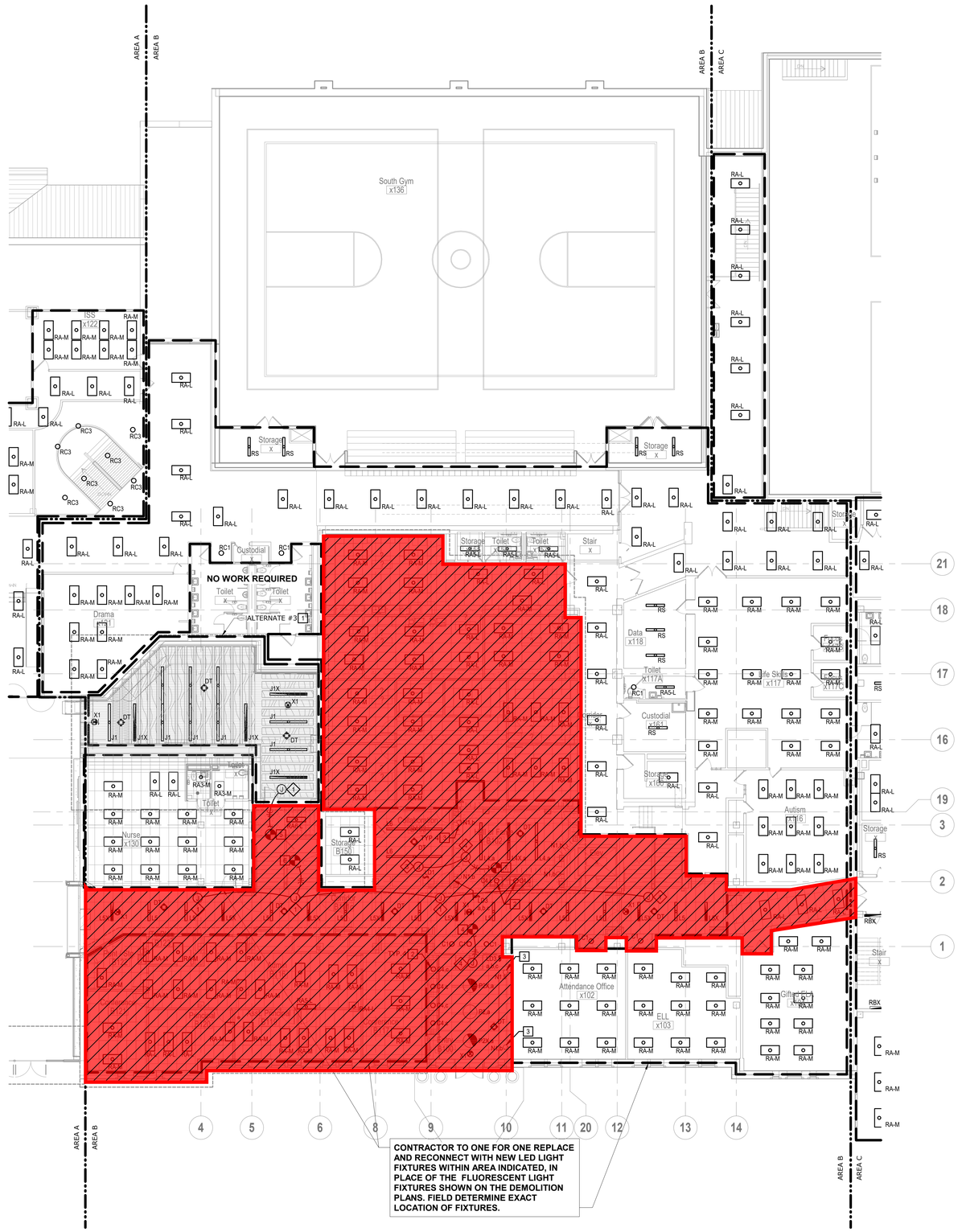
DATE: 12.07.2023

E101A

A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

Please consider the environment before printing this.


AREA A
AREA B
AREA B
AREA C
South Gym
x136
Storage
RS
Storage
RS
Storage
RS



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

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TYPICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date



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project number 2314708

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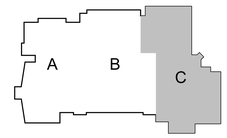
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

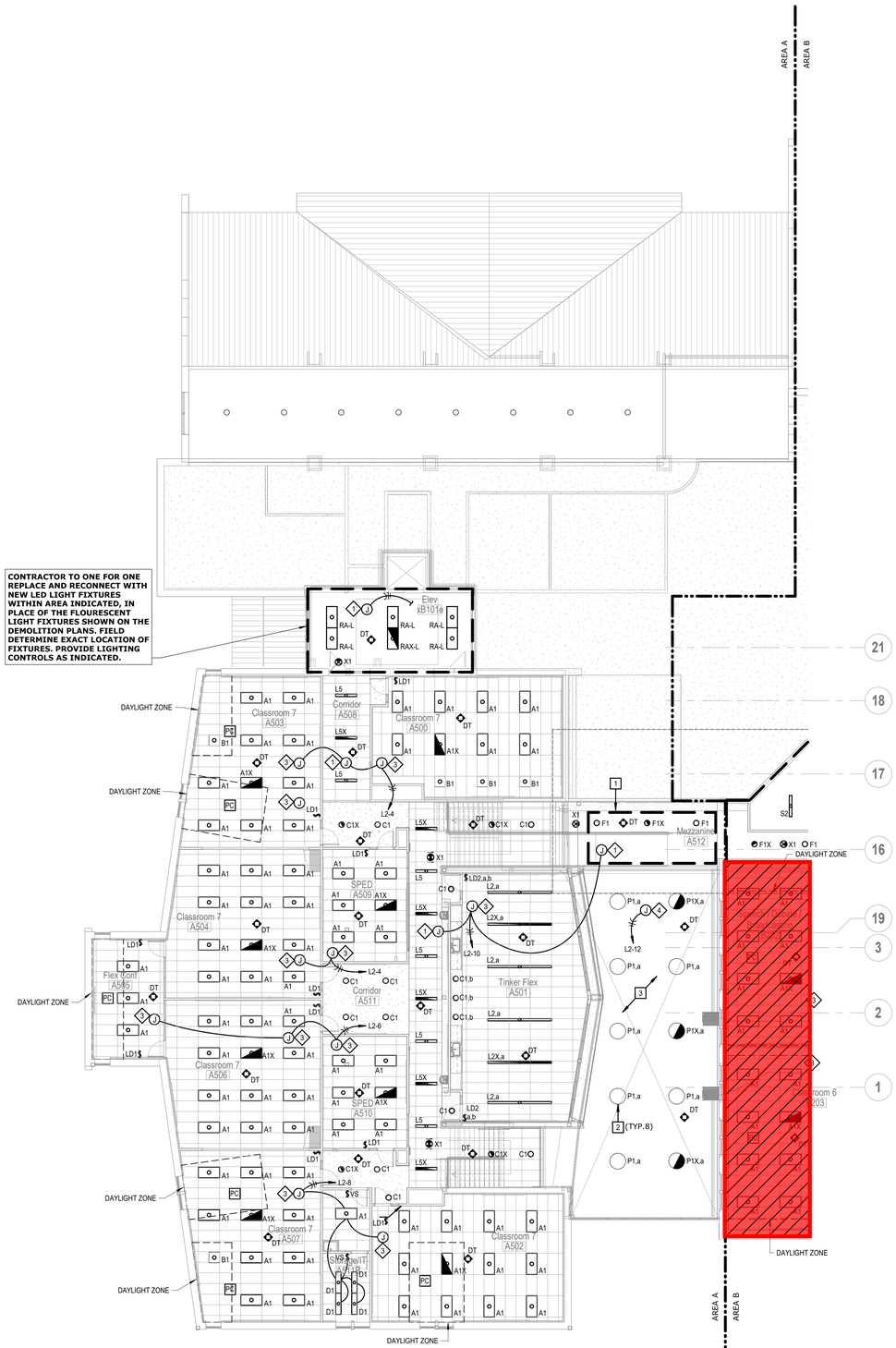
E101C

A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 1 - AREA C

PROJECT NORTH / TRUE NORTH

LIGHTING PLAN - LEVEL 1 - AREA C

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 2 - AREA A

PROJECT NORTH | TRUE NORTH

SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. CONTROL MEZZANINE FIXTURES WITH F1/F1X FIXTURES IN ADJACENT CORRIDOR. REFER TO SHEET E102B.
2. COORDINATE LOCATION AND MOUNTING HEIGHT OF DECORATIVE PENDANT WITH ARCHITECTURAL PLANS, AND OTHER TRADES.
3. PROVIDE COORDINATION DRAWING TO A/E FOR REVIEW PRIOR TO ANY CONDUIT ROUTING IN COMMONS. DRAWING SHALL IDENTIFY CONDUIT, JUNCTION BOXES, AND DEVICES ASSOCIATED WITH LIGHTING, LIGHTING CONTROLS, POWER, AND ALL LOW VOLTAGE. CONDUITS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO TO STRUCTURE.

= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date



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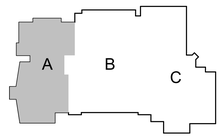
KEY PLAN

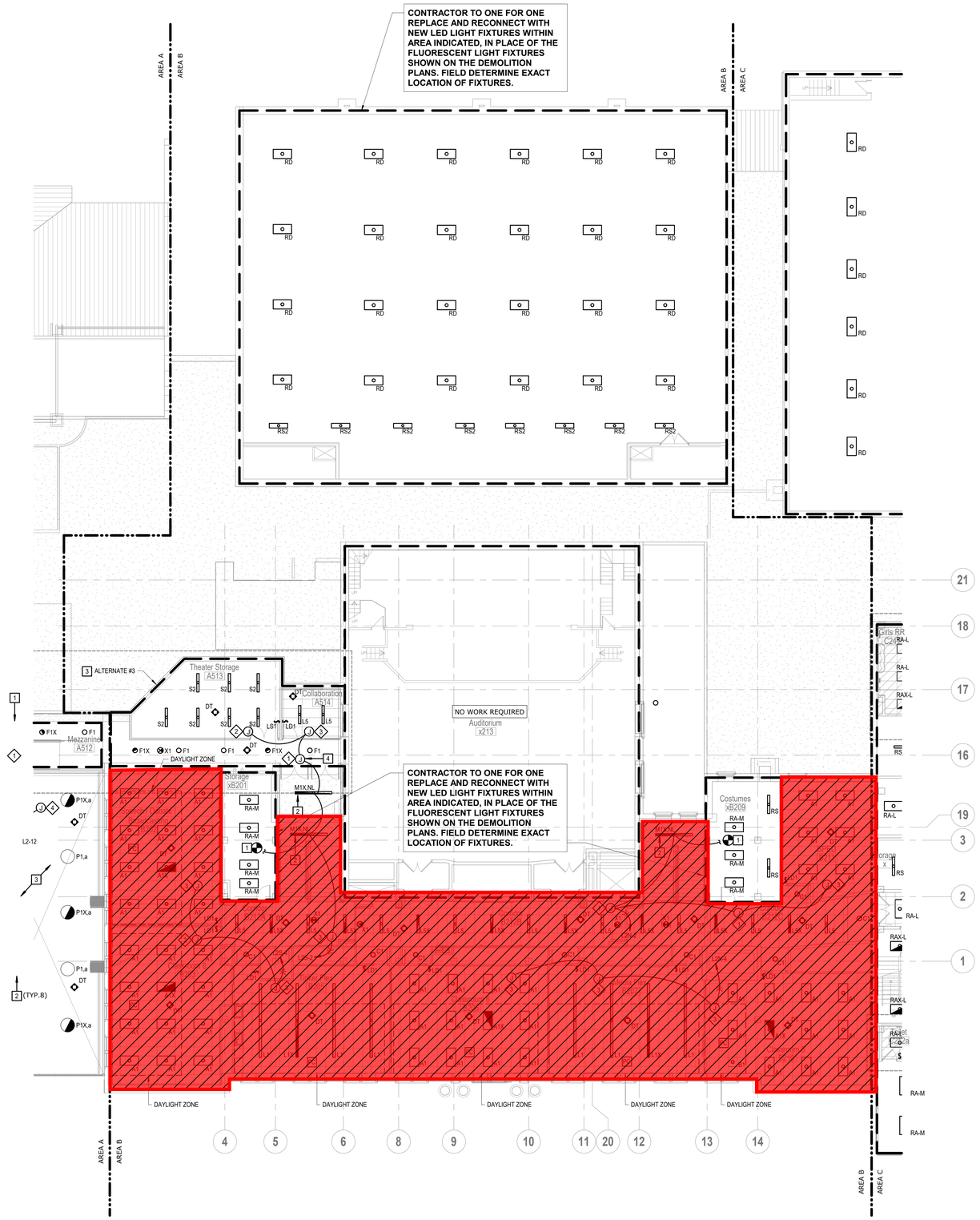


JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

E102A

LIGHTING PLAN - LEVEL 2 - AREA A

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

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TYPICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. FIELD DETERMINE EXISTING ROOM LIGHTING VOLTAGE AND EXISTING CIRCUITING. IF REQUIRED, MAINTAIN CIRCUIT CONTINUITY AND CIRCUIT WITH CORRIDOR LIGHTING CIRCUIT AS SHOWN. EXISTING LIGHTING AND CONTROL TO REMAIN WITHIN RESTROOM.
2. STAIR LANDING FIXTURE SHALL BE UNSWITCHED NIGHT LIGHT.
3. BASE BID SHALL INLCUDE ONE FOR ONE REPLACE AND RECONNECT WITH NEW LED LIGHT FIXTURES WITHIN AREA INDICATED, IN PLACE OF THE FLUORESCENT LIGHT FIXTURES SHOWN ON THE DEMOLITION PLANS FOR THIS AREA. FIELD DETERMINE EXACT LOCATION OF FIXTURES. FIXTURES (10 TOTAL) SHALL BE TYPE "RS2".
4. CONTROL F1/F1X CORRIDOR FIXTURES WITH FIXTURES IN ADJACENT MEZZANINE. REFER TO SHEET E102A.

= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

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REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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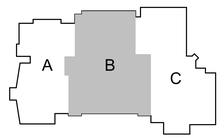
KEY PLAN



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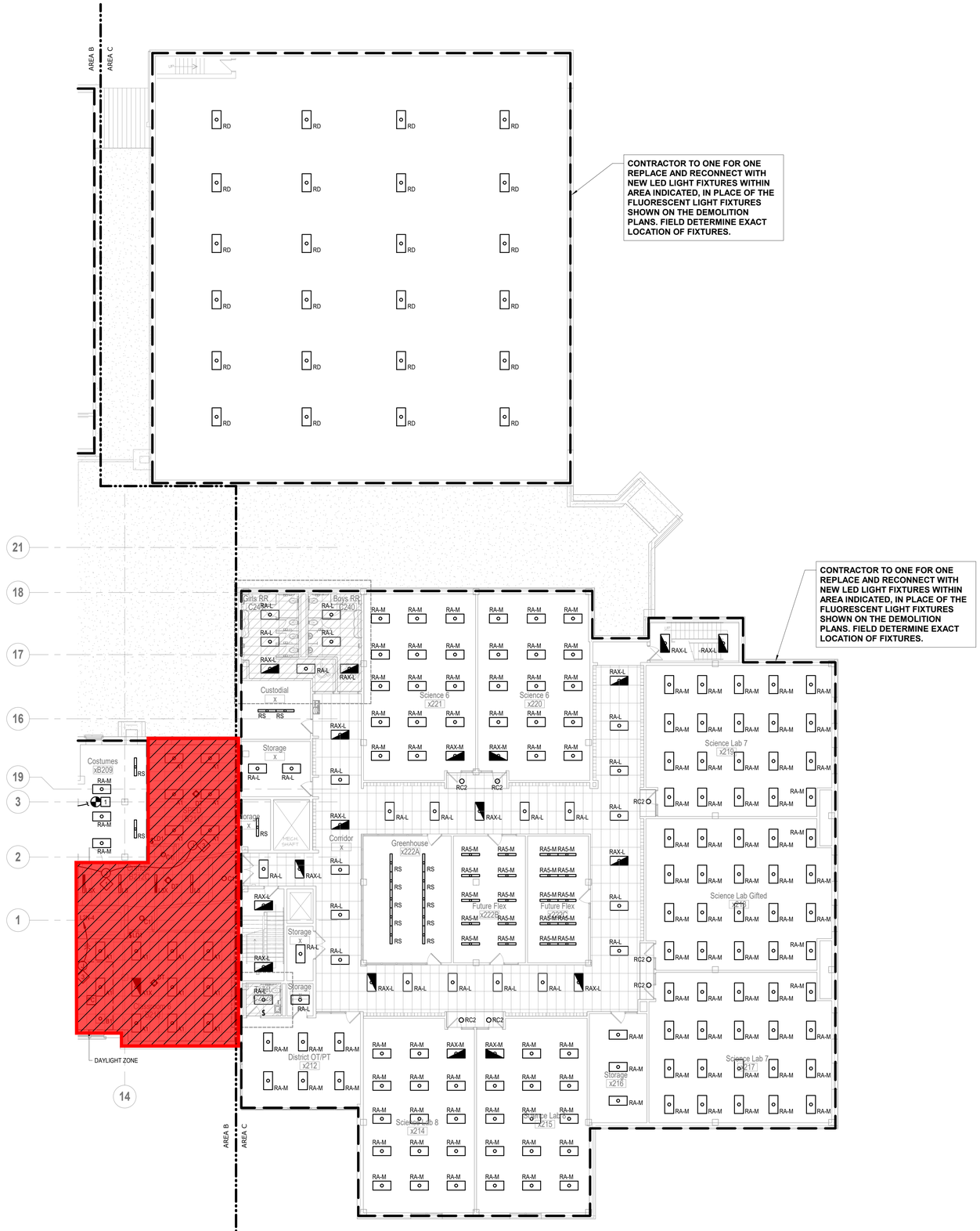
E102B

LIGHTING PLAN - LEVEL 2 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

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REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
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12/7/23

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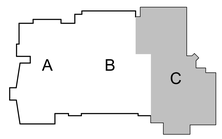
DATE: 12.07.2023

KEY PLAN



E102C

A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 2 - AREA C

PROJECT NORTH TRUE NORTH

LIGHTING PLAN - LEVEL 2 - AREA C

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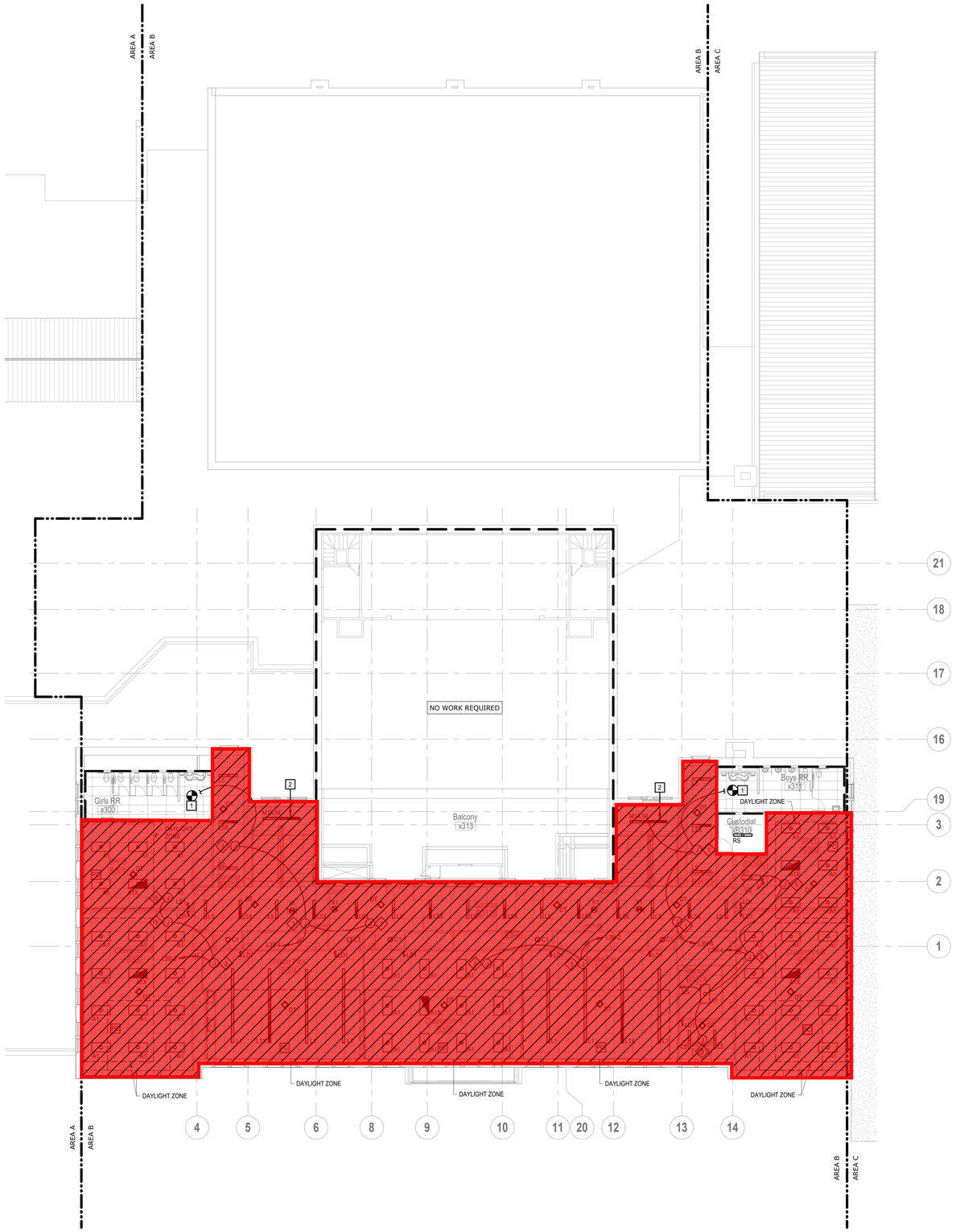

A1 | Scale 3/32" = 1'-0" | LIGHTING PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E100A FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1 FIELD DETERMINE EXISTING RESTROOM LIGHTING VOLTAGE AND EXISTING CIRCUITING. IF REQUIRED, MAINTAIN CIRCUIT CONTINUITY AND CIRCUIT WITH CORRIDOR LIGHTING CIRCUIT AS SHOWN. EXISTING LIGHTING AND CONTROL TO REMAIN WITHIN RESTROOM.

3 STAIR LANDING FIXTURE SHALL BE UNSWITCHED NIGHT LIGHT.

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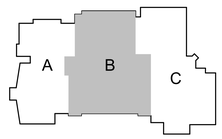
KEY PLAN



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E103B

LIGHTING PLAN - LEVEL 3 - AREA B

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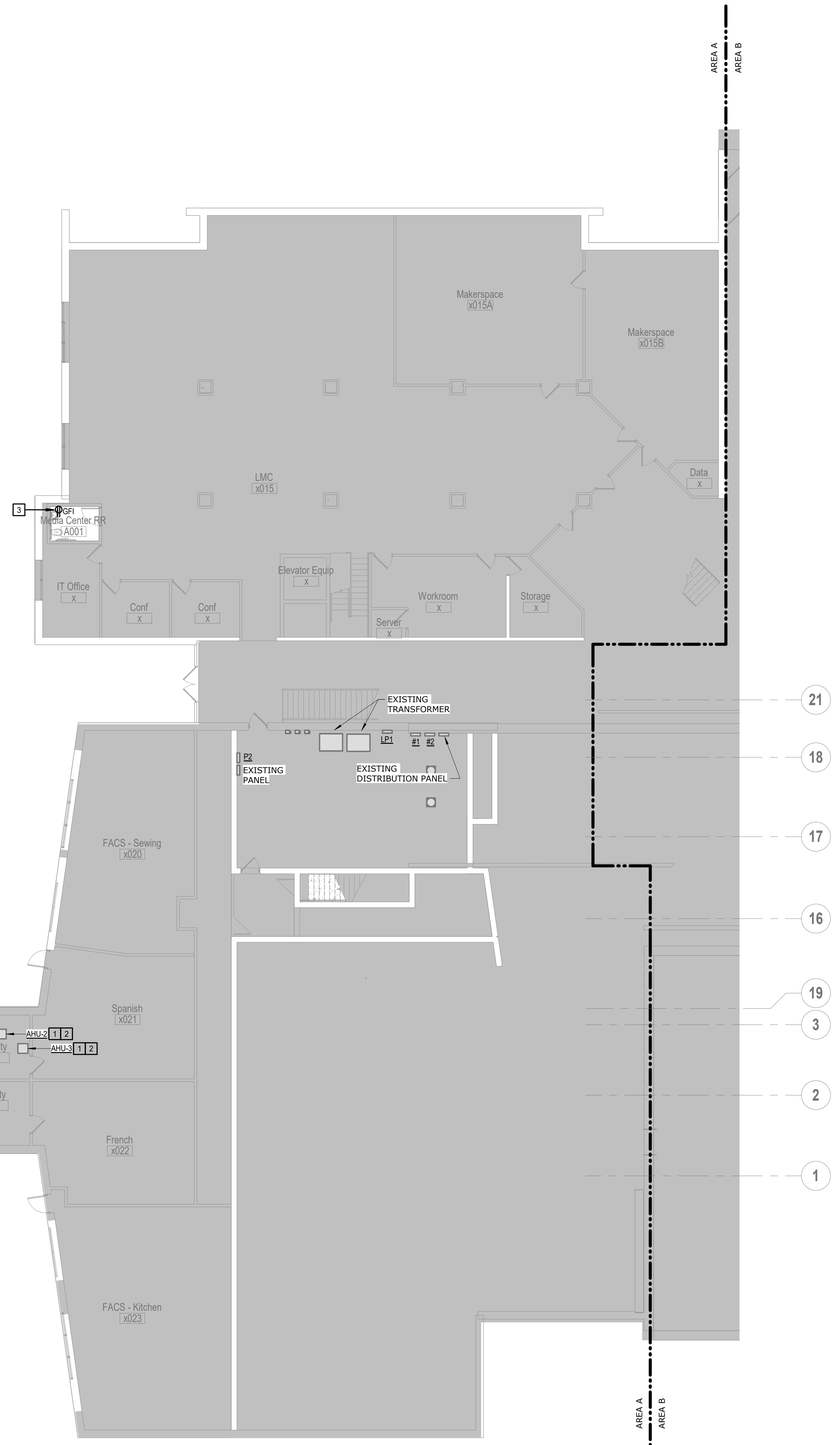

PLAN NOTES:

1. UTILIZE ELECTRICAL CIRCUIT FROM DEMO'ED AIR HANDLING UNIT TO SERVE NEW UNIT. REFER TO AIR HANDLING UNIT SCHEDULE FOR ADDITIONAL INFORMATION. FIELD DETERMINE EXACT CONDITIONS.
2. PROVIDE CIRCUIT PER AIR HANDLING UNIT SCHEDULE TO SERVE UNIT U.V. LIGHT. PROVIDE LOCAL DISCONNECT PRIOR TO CONNECTION TO LIGHT.
3. PROVIDE NEW RECEPTACLE AND COVER PLATE IN PLACE OF EXISTING IN RESTROOM AS PART OF ARCHITECTURAL FINISHES UPDATES.

SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. THE FOLLOWING APPLIES TO ALL ELECTRICAL AND LOW VOLTAGE RACEWAYS.
2. SPECIAL MOUNTING HEIGHTS NOTED ON PLANS ARE MEASURED TO THE CENTER OF THE JUNCTION BOX. REFER TO TYPICAL MOUNTING HEIGHT DETAIL FOR TYPICAL MOUNTING HEIGHTS.
3. REFER TO ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF ALL WALL MOUNTED ELECTRICAL DEVICES.
4. IN ALL HIGH FINISH AREAS WITHOUT CEILINGS (INCLUDING BUT NOT LIMITED TO LOBBIES, CONFERENCE ROOMS, BREAK ROOMS, OPEN OFFICES, LOCKER ROOMS, ETC.) ALL LOW VOLTAGE CABLING TO BE ROUTED IN CONDUIT (INCLUDING BUT NOT LIMITED TO TELECOM, FIRE ALARM, BUILDING AUTOMATION, A/V, LIGHTING CONTROLS, ETC.). CONDUIT SHALL EXTEND FROM THE STUB OUT ABOVE THE CEILING ELEVATION BACK TO NEAREST ACCESSIBLE CEILING LOCATION OR DIRECTLY TO THE NEXT COMPONENT IN THE SYSTEM. ROOMS WITH SUSPENDED CLOUDS OR SUSPENDED ACOUSTIC BAFFLES STILL QUALIFY AS AREAS WITHOUT CEILINGS. THIS REQUIREMENT DOES NOT APPLY TO BACK OF HOUSE AREAS WITHOUT CEILINGS (INCLUDING BUT NOT LIMITED TO MECHANICAL ROOMS, ELECTRICAL ROOMS, TELECOM ROOMS, STORAGE ROOMS, JANITOR'S CLOSETS, ETC.)
5. ALL CONDUIT TO BE CONCEALED WHEREVER PHYSICALLY POSSIBLE. WHERE EXPOSED CONDUIT IS MANDATORY, IT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, SOFFITS, ETC. ALL GROUPS OF EXPOSED CONDUIT SHALL BE INSTALLED AS CLOSE TOGETHER AS POSSIBLE. EXPOSED CONDUIT SHALL BE INSTALLED IN A CLEAN AND WORKMANLIKE MANNER. EXPOSED CONDUIT IS DEFINED AS ANY CONDUIT
NOT CONCEALED WITHIN WALLS OR ABOVE EITHER A LAY-IN OR HARD LID CEILING. ALL SURFACE CONDUIT AND/OR PAINTABLE SURFACE RACEWAY TO BE PAINTED TO MATCH THE WALL SURFACE IT IS MOUNTED TO.
6. PATCH AND REPAIR ALL OPENINGS CREATED THAT PENETRATE FIRE RATED WALLS, FLOORS AND CEILINGS USING UL APPROVED METHODS AND MATERIALS CONSISTENT WITH THE RATING OF THE SURFACE PENETRATED.
WHERE ANY DEVICE JUNCTION BOXES ARE RECESSED WITHIN OPPOSITE SIDES OF A FIRE RATED WALL, AND ARE WITHIN 24" OF EACH OTHER MEASURED HORIZONTALLY, FURNISH AND INSTALL AN INTUMESCENT MOLDABLE FIRE STOP PUTTY PAD AROUND EACH JUNCTION BOX.
7. ALL EMERGENCY JUNCTION BOXES AND RACEWAY MUST BE MARKED WITH PERMANENT RED "EMERGENCY" STICKERS TO READILY IDENTIFY THEM AS A COMPONENT OF THE EMERGENCY SYSTEM (NEC 700.10), INSTALL ON EACH JUNCTION BOX COVER AND ON RACEWAY AT INTERVALS NOT EXCEEDING 25'-0". RACEWAYS WITHIN WALLS, BELOW SLABS, AND ABOVE NON-ACCESSIBLE CEILING AREAS DO NOT NEED TO BE MARKED.
8. ALL WALL OR FLOOR OPENINGS THROUGH WHICH FREE AIR CABLING IS ROUTED, CONCEALED OR EXPOSED, SHALL BE PROVIDED WITH SLEEVES. MINIMUM SIZE OF 3/4", AND INCREASED AS NECESSARY BASED ON THE SIZE AND QUANTITY OF CABLING TO BE ROUTED THROUGH IT.
9. NO LOOSE CABLING ALLOWED IN WALL CAVITIES. CONDUIT PATHWAYS TO BE INSTALLED FOR ANY CABLING WITHIN WALLS.
10. ALL CONDUITS, BOXES, AND SLEEVES REQUIRED FOR ELECTRICAL AND LOW VOLTAGE SHALL BE INSTALLED BY DIVISION 26 CONTRACTOR. ALL SLEEVES AND ROUTING REQUIRED SHALL BE FULLY COORDINATED AMONGST ALL CONTRACTOR(S)/TRADES PRIOR TO INSTALLATION.

TYPICAL POWER GENERAL NOTES:

1. REFER TO COMBINATION M/E SCHEDULES AND DETAILS FOR MECHANICAL AND PLUMBING EQUIPMENT CIRCUITING INFORMATION.
2. PROVIDE 120V POWER TO ALL FIRE/SMOKE DAMPERS. PROVIDE A DUCT MOUNTED SMOKE DETECTOR AT EACH LOCATION. PROVIDE ALL NECESSARY RELAYS AND RELAY CONNECTIONS REQUIRED FOR A FULLY WORKING SYSTEM. VERIFY LOCATIONS AND QUANTITY REQUIRED WITH HVAC PLANS/CONTRACTOR. INSTALL A TOGGLE SWITCH DISCONNECT AT EACH DAMPER LOCATION.
3. PROVIDE ADDITIONAL 120V CIRCUITS FOR THE BUILDING AUTOMATION SYSTEM, ABOVE AND BEYOND THOSE ALREADY NOTED ON THE FLOOR PLANS, AS REQUIRED BY THE BUILDING AUTOMATION SYSTEM CONTROLS CONTRACTOR.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR GROUNDING THE LOW VOLTAGE CABLE TRAY SYSTEM AND EQUIPMENT WITHIN DATA ROOMS. REFER TO LOW VOLTAGE DETAILS FOR ADDITIONAL INFORMATION.
5. PROVIDE (1) 3/4" CONDUIT FROM ALL THERMOSTAT / TEMPERATURE SENSORS UP TO ABOVE ACCESSIBLE CEILING OR DIRECTLY TO ASSOCIATED HVAC EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
6. ALL RECEPTACLES WITH 'USB' TAG SHOWN ON PLANS TO BE A DUPLEX RECEPTACLE WITH (1) USB-A AND (1) USB-C TYPE PORTS. USB PORTS TO BE RATED AT MINIMUM OF 5A AT 5VDC.
7. LABEL ALL RECEPTACLES WITH PANEL AND CIRCUIT NUMBER ON DEVICE COVER PLATE.
8. IN EXISTING PORTIONS OF BUILDING WHERE EXISTING CMU/CONCRETE WALLS OR STRUCTURE WILL BE EXPOSED, PROVIDE SURFACE RACEWAY AS REQUIRED FOR PATHWAY FROM DEVICES TO NEAREST ACCESSIBLE CEILING, OR BETWEEN DEVICES.

   RECEPTACLES - WIREMOLD 500 SERIES
   THERMOSTATS - WIREMOLD 500 SERIES
   FIRE ALARM - WIREMOLD 500 SERIES
   SECURITY DEVICES - WIREMOLD 500 SERIES
   TELECOM DEVICES - WIREMOLD 2000 SERIES

9. CONDUCTORS ARE #12, AND CONDUIT IS 1/2" UNLESS NOTED OTHERWISE OR NEEDED TO INCREASE FOR VOLTAGE DROP.
10. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS TO ACCOUNT FOR VOLTAGE DROP, UNLESS NOTED OTHERWISE. GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.

    0'-100' = #12 AWG
    101'-150' = #10AWG
    151'-250' = #8 AWG
    250'-400' = #6 AWG

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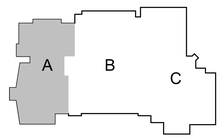
KEY PLAN



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Heritage Middle School Renovations
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REVISIONS:

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12/7/23

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DATE: 12.07.2023

E200A

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 0 - AREA A

PROJECT NORTH TRUE NORTH

POWER PLAN - LEVEL 0 - AREA A

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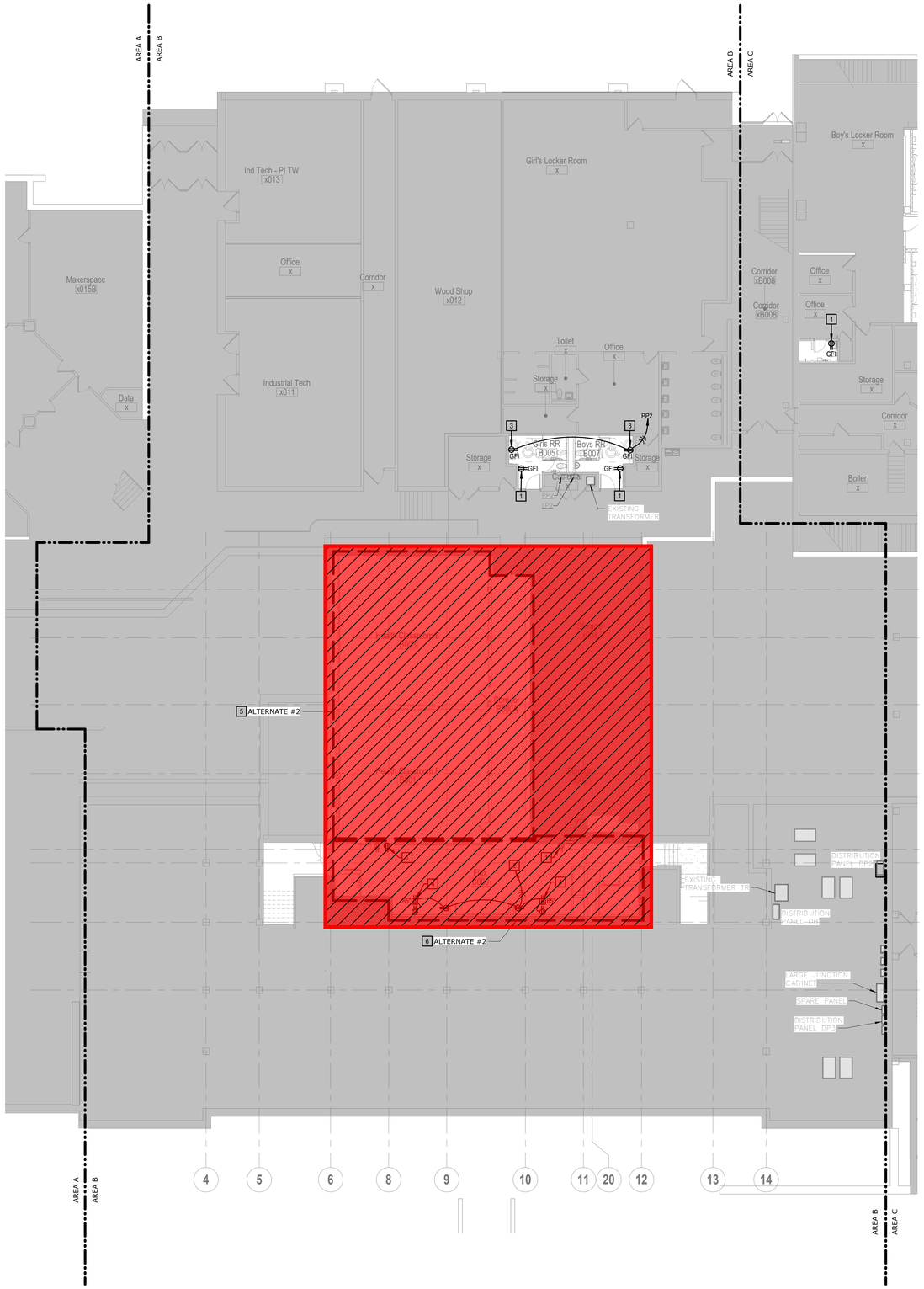

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

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TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. PROVIDE NEW RECEPTACLE AND FACEPLATE AT EXISTING DEVICE LOCATION. MAINTAIN EXISTING CIRCUIT CONTINUITY TO DEVICE.
2. CIRCUIT TO 120V ELECTRICAL PANEL IN FLEX B000. PROVIDE 20A-1P CIRCUIT BREAKER AS REQUIRED. FIELD VERIFY.
3. PROVIDE RECEPTACLE FOR WASH FOUNTAIN. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. CIRCUIT TO PANE INDICATED. PROVIDE 20A-1P CIRCUIT BREAKER AS REQUIRED. FIELD VERIFY.
4. REFER TO ARCHITECTURAL PLANS FOR TV MOUNTING HEIGHT FOR EXACT LOCATION OF RECEPTACLE.
5. ALTERNATE BID SHALL PROVIDE NEW RECEPTACLES AND FACEPLATES AT EXISTING DEVICE LOCATIONS. MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES. FIELD DETERMINE EXACT REQUIREMENTS, INCLUDING LOCATION, TYPE, AND QUANTITIES.
6. ALTERNATE BID SHALL PROVIDE ALL WORK INDICATED WITHIN LIMITS SHOWN.

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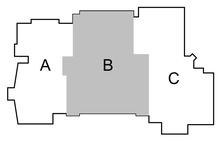

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E200B

POWER PLAN - LEVEL 0 - AREA B

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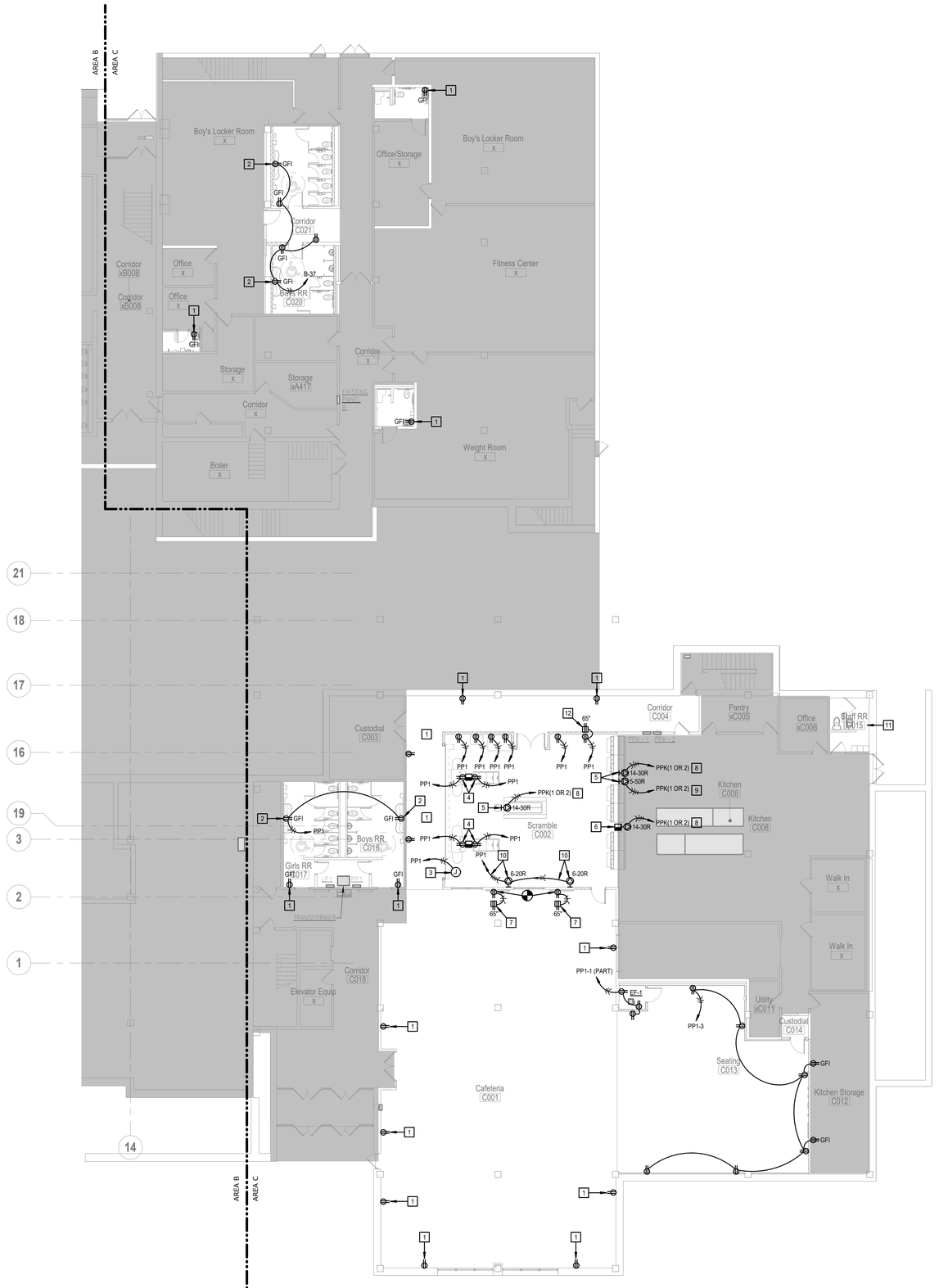

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1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.
2. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING LOCATION OF DEVICES, WITH THE FOOD SERVICE EQUIPMENT (FSE) PLANS AND VENDOR.
3. FIELD DETERMINE AVAILABLE CIRCUITS FOLLOWING DEMOLITION OF EXISTING SCRAMBLE AREA. INTENT IS TO UTILIZE ALL AVAILABLE CIRCUIT BREAKERS IN EXISTING PANELS TO SERVE NEW DEVICES SHOWN. CIRCUIT ALL NEW DEVICES TO PANELS INDICATED. UNLESS NOTED OTHERWISE, ALL CIRCUITS SHALL BE PROTECTED WITH 20A-1P CB. PROVIDE ADDITIONAL BREAKERS AS REQUIRED.

PLAN NOTES:

1. PROVIDE NEW RECEPTACLE AND FACEPLATE AT EXISTING DEVICE LOCATION. MAINTAIN EXISTING CIRCUIT CONTINUITY TO DEVICE.
2. PROVIDE RECEPTACLE FOR WASH FOUNTAIN. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. CIRCUIT TO PANE INDICATED. PROVIDE 20A-1P CIRCUIT BREAKER AS REQUIRED. FIELD VERIFY.
3. PROVIDE REQUIRED POWER TO OVERHEAD COILING DOOR. PROVIDE ALL CONDUIT, BOXES, AND CABLING FOR ASSOCIATED DOOR CONTROLS AND SAFETIES. COORDINATE WITH DOOR PROVIDER.
4. PROVIDE POWER POLE WITH DEVICES INDICATED, IN ADDITION TO DATA DEVICES PER THE LOW VOLTAGE PLAN. COORDINATE EXACT LOCATION OF POLE WITH ARCHITECT AND FSE PROVIDER. POWER POLE COLOR AS SELECTED BY ARCHITECT. POWER POLE EQUAL TO LEGRAND TELE-POWER SERIES.
5. SURFACE MOUNT CONDUIT, BACK BOX AND COVER AS REQUIRED FOR RECEPTACLE INDICATED TO BE INSTALLED ON FACE OF EXISTING COLUMN. PAINT CONDUIT AND BACK BOX TO MATCH COLUMN.
6. PROVIDE POWER POLE WITH DEVICE INDICATED. COORDINATE EXACT LOCATION OF POLE WITH ARCHITECT AND FSE PROVIDER. POWER POLE COLOR AS SELECTED BY ARCHITECT. POWER POLE EQUAL TO LEGRAND TELE-POWER SERIES.
7. POWER FOR TV VIA EXISTING RECEPTACLE BELOW. ROUTE MC CABLE WITHIN EXISTING BLOCK WALL FOR CONCEALED RACEWAY INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION.
8. CIRCUIT TO PANEL INDICATED. PROVIDE 30A/2P CB IN AVAILABLE SPACE AS A RESULT OF DEMOLITION WORK. (3)#10,#10G.,3/4"C. FIELD DETERMINE EXACT CONDITIONS.
9. CIRCUIT TO PANEL INDICATED. PROVIDE 40A/1P CB IN AVAILABLE SPACE AS A RESULT OF DEMOLITION WORK. (2)#8,#10G.,3/4"C. FIELD DETERMINE EXACT CONDITIONS.
10. CIRCUIT TO PANEL INDICATED. PROVIDE 20A/2P CB IN AVAILABLE SPACE AS A RESULT OF DEMOLITION WORK. INTENT IS TO REUSE EXISTING CONDUIT AND BACK BOX THAT SERVED THE 120V RECEPTACLES AT 42", TO SERVE THE NEW DEVICES INDICATED. PROVIDE NEW CONDUCTORS. FIELD DETERMINE EXACT CONDITIONS.
11. NO POWER RELATED WORK REQUIRED IN THIS ROOM.
12. REFER TO ARCHITECTURAL PLANS FOR TV MOUNTING HEIGHT FOR EXACT LOCATION OF RECEPTACLE.

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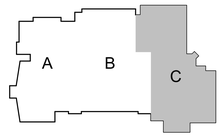
KEY PLAN



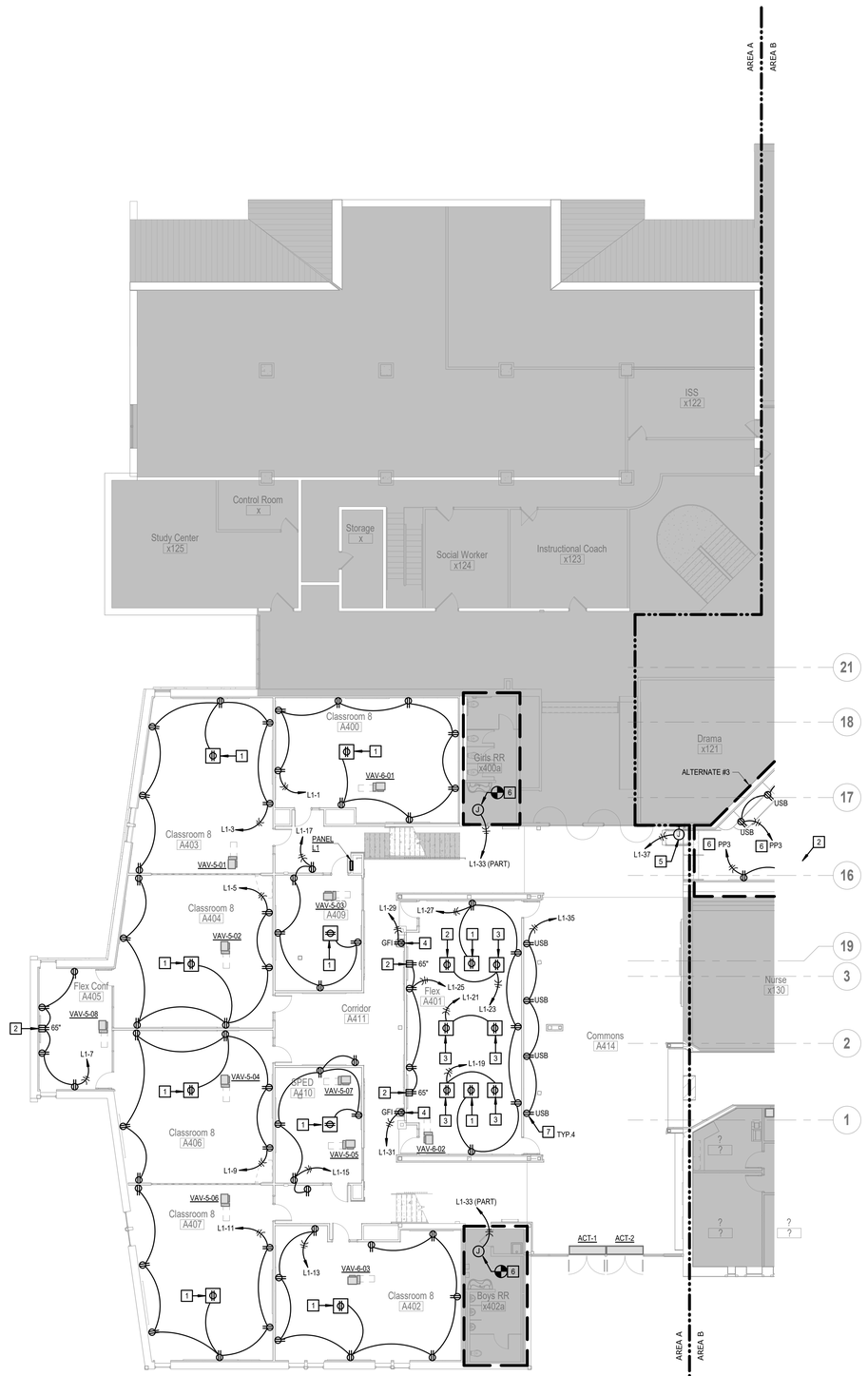
E200C

POWER PLAN - LEVEL 0 - AREA C

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

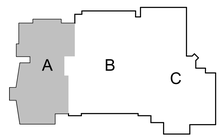
TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. FLUSH MOUNT CEILING RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 10FT EXCESS MC CABLING COILED IN CEILING TO ALLOW RELOCATING RECEPTACLE WITHIN 8 FT RADIUS FROM CENTER OF ROOM.
2. POWER FOR TV. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION.
3. RECEPTACLE FOR RECESSED CORD REEL. COORDINATE LOCATION WITH OTHER TRADES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO RECESSED CEILING MOUNTED CORD REEL AND ENCLOSURE DETAIL, SHEET E304.
4. PROVIDE POWER AT DRINKING FOUNTAIN. EXISTING WALL IS BRICK, SERVE VIA FURRED OUT WALL IN FLEX SPACE.
5. PROVIDE POWER FOR STAIR LIFT. COORDINATE ROUGH-IN LOCATION WITH STAIR LIFT PROVIDER. PROVIDE ALL REQUIRED CONDUIT, BOXES, CABLING FOR CONTROLS AS REQUIRED.
6. TIE EXISTING RESTROOM 120V POWER SERVING RECEPTACLES AND/OR SENSOR VALVES TO CIRCUIT INDICATED. FIELD DETERMINE EXACT REQUIREMENTS.
7. PROVIDE RECEPTACLE WITH DUAL USB-C AND USB-A. DEVICE COLOR AND FACEPLATE PER ARCHITECT.

KEY PLAN



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Architecture # 000161
Structure # 2006031333

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smith & boucher engineers
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project number 2314708

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER A-2015006871
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

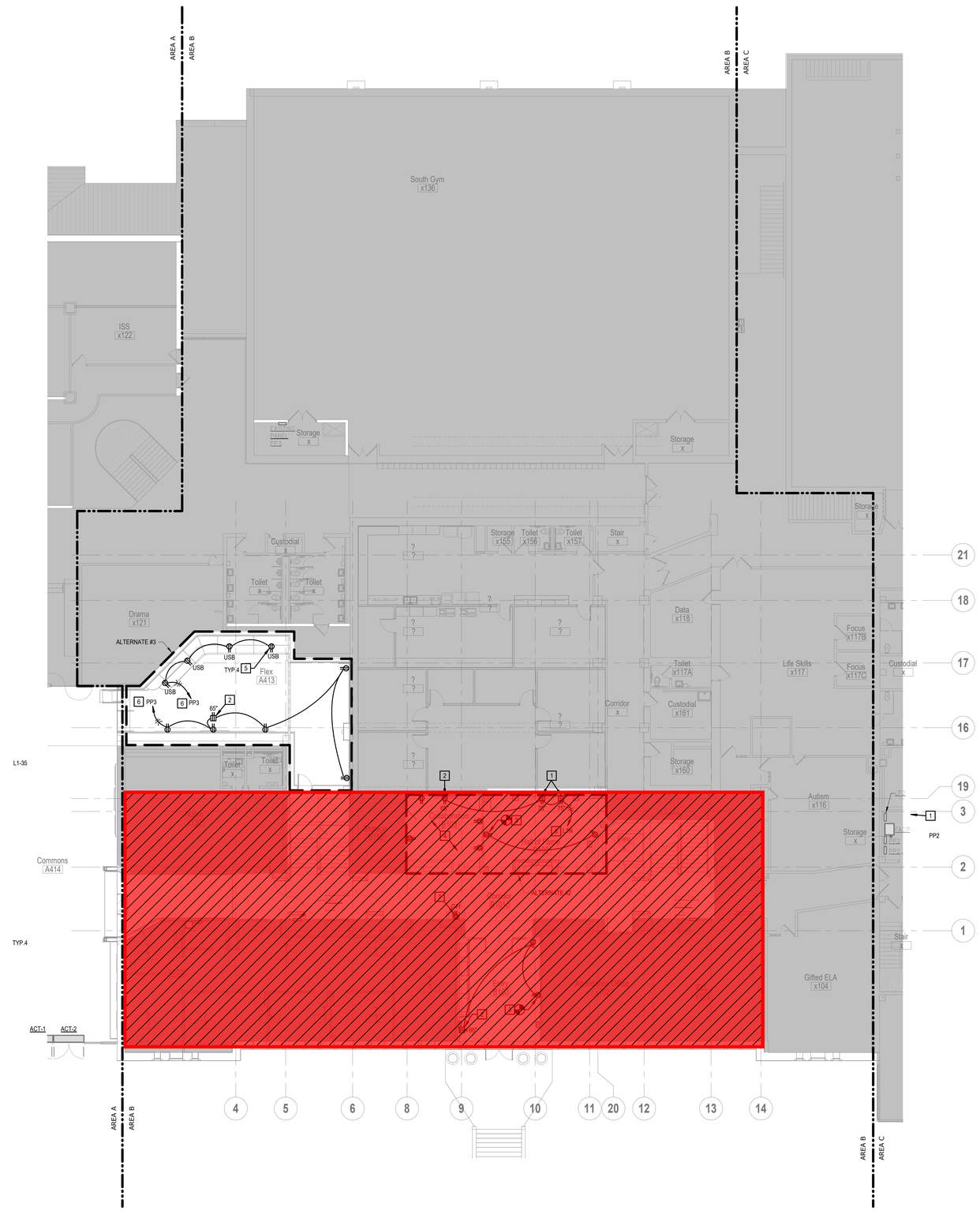
E201A

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

POWER PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

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TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. POWER FOR MULTI-TV DISPLAY. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION. COORDINATE WITH DISTRICT FOR FURTHER DIRECTION.
2. POWER FOR TV. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION.
3. TIE TO EXISTING ROOM RECEPTACLE CIRCUIT. PROVIDE NEW RECEPTACLE AND FACEPLATE AT EXISTING LOCATION.
4. PROVIDE ALL NEW RECEPTACLES AND FACEPLATES WITHIN COLLABORATION AT EXISTING LOCATIONS.
5. COORDINATE LOCATION OF RECEPTACLE WITH DUAL USB-C AND USB-A OUTLETS IN RISE OF LEARNING STAIR WITH ARCHITECT. INSTALL CENTERED IN RISE AND HORIZONTAL ORIENTATION. DEVICE COLOR AND FACEPLATE PER ARCHITECT.
6. CIRCUIT TO PANEL INDICATED. PROVIDE 20A-1P CIRCUIT BREAKER IN AVAILABLE SPACE. FIELD DETERMINE.
7. MOVE/SHIFT EXISTING RECEPTACLE ROUGH-IN AT DRINKING FOUNTAIN SO DEVICE IS CONCEALED BEHIND UNIT. PROVIDE NEW RECEPTACLE AND FACEPLATE. COORDINATE WITH PLUMING CONTRACTOR.

= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
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Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015040411
ENGINEER
12/7/23

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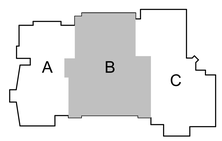
DATE: 12.07.2023

KEY PLAN



E201B

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 1 - AREA B

PROJECT NORTH TRUE NORTH

POWER PLAN - LEVEL 1 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

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TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1 LOCATION OF NEW VOICE EVACUATION FIRE ALARM PANEL. PROVIDE POWER TO ALARM PANEL VIA PANEL PP2. PROVIDE 20A-1P CIRCUIT BREAKER, RED IN COLOR, IN PANEL. FIELD DETERMINE.

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Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015036134
PROFESSIONAL ENGINEER
12/7/23

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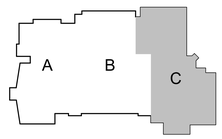
CHECKED BY: RJD
DATE: 12.07.2023

KEY PLAN



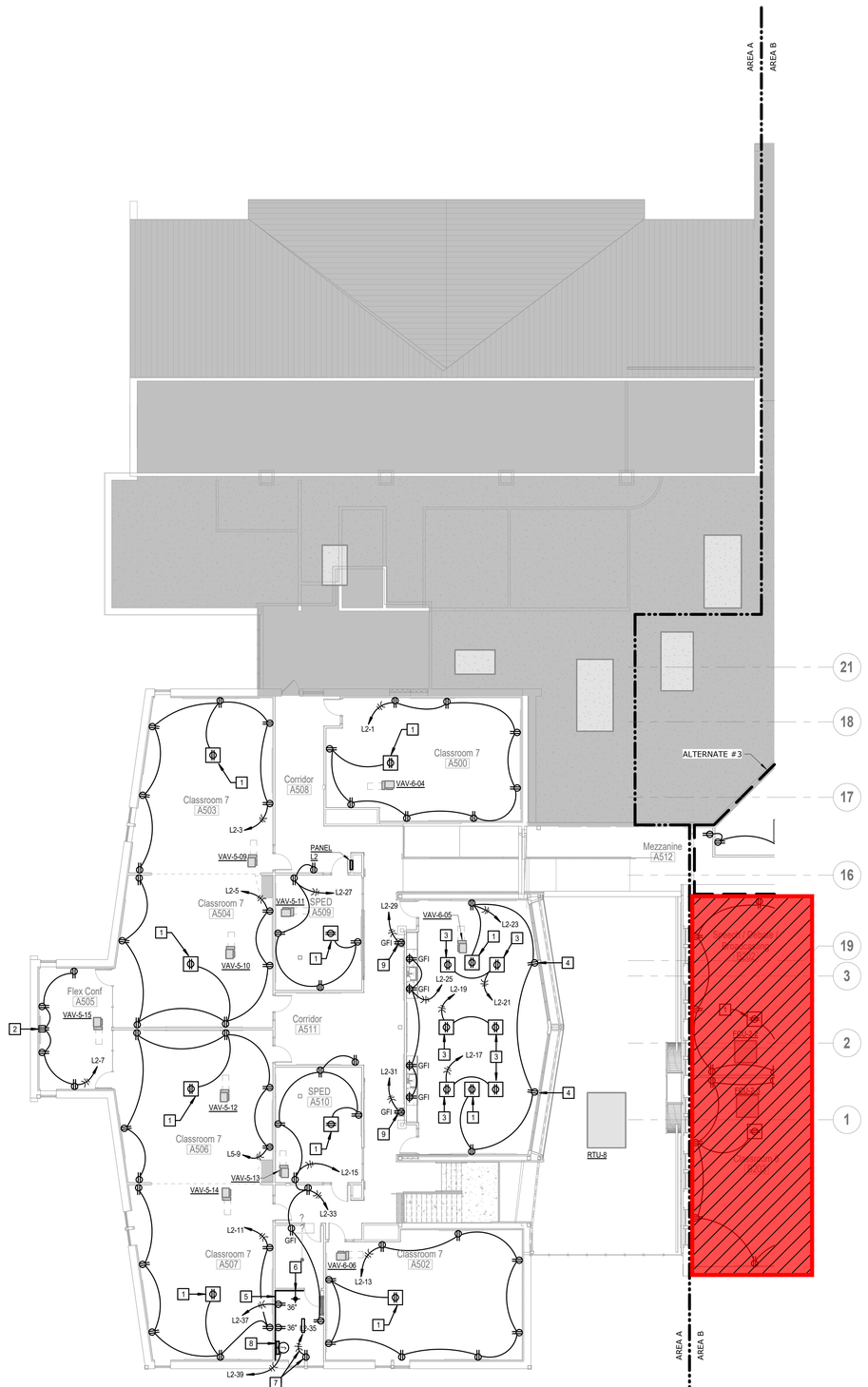
E201C

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 1 - AREA C

PROJECT NORTH TRUE NORTH

POWER PLAN - LEVEL 1 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

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TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. FLUSH MOUNT CEILING RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 10FT EXCESS MC CABLING COILED IN CEILING TO ALLOW RELOCATING RECEPTACLE WITHIN 8 FT RADIUS FROM CENTER OF ROOM.
2. POWER FOR TV. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION.
3. RECEPTACLE FOR RECESSED CORD REEL. COORDINATE LOCATION WITH OTHER TRADES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO RECESSED CEILING MOUNTED CORD REEL AND ENCLOSURE DETAIL, SHEET E304.
4. RECEPTACLE MOUNTED WITHIN WINDOW/WALL FRAMING. ROUTE CONDUIT WITHIN FRAME. COORDINATE WITH SYSTEM INSTALLER.
5. PROVIDE 4'X8'X3/4" PLYWOOD BACKBOARD ALONG WALL, AND SIDEWALL TO DOOR. PRIOR TO ANY EQUIPMENT INSTALLATION, PAINT PLYWOOD WITH TWO COATS, LOW GLOSS PAINT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. GROUNDING BUS BAR, REFER TO SHEET E303. PROVIDE ALL REQUIRED GROUNDING AND GROUNDING CONDUCTORS.
7. DEDICATED RECEPTACLE FOR I.T. RACK. COORDINATE WITH DISTRICT REPRESENTATIVE RECEPTACLE REQUIREMENTS. CIRCUIT SHALL UTILIZE (2)#10,#10G, IN 1/2"C.
8. PROVIDE POWER TO DOOR ACCESS CONTROLS CABINET. COORDINATE EXACT LOCATION WITH DISTRICT REPRESENTATIVE.
9. PROVIDE POWER AT DRINKING FOUNTAIN. EXISTING WALL IS BRICK, SERVE VIA FURRED OUT WALL IN FLEX SPACE.

= Phase 2 Scope of Work
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785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015008814
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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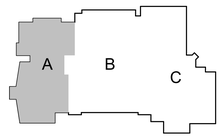
KEY PLAN



JOB NO: 23024
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DATE: 12.07.2023

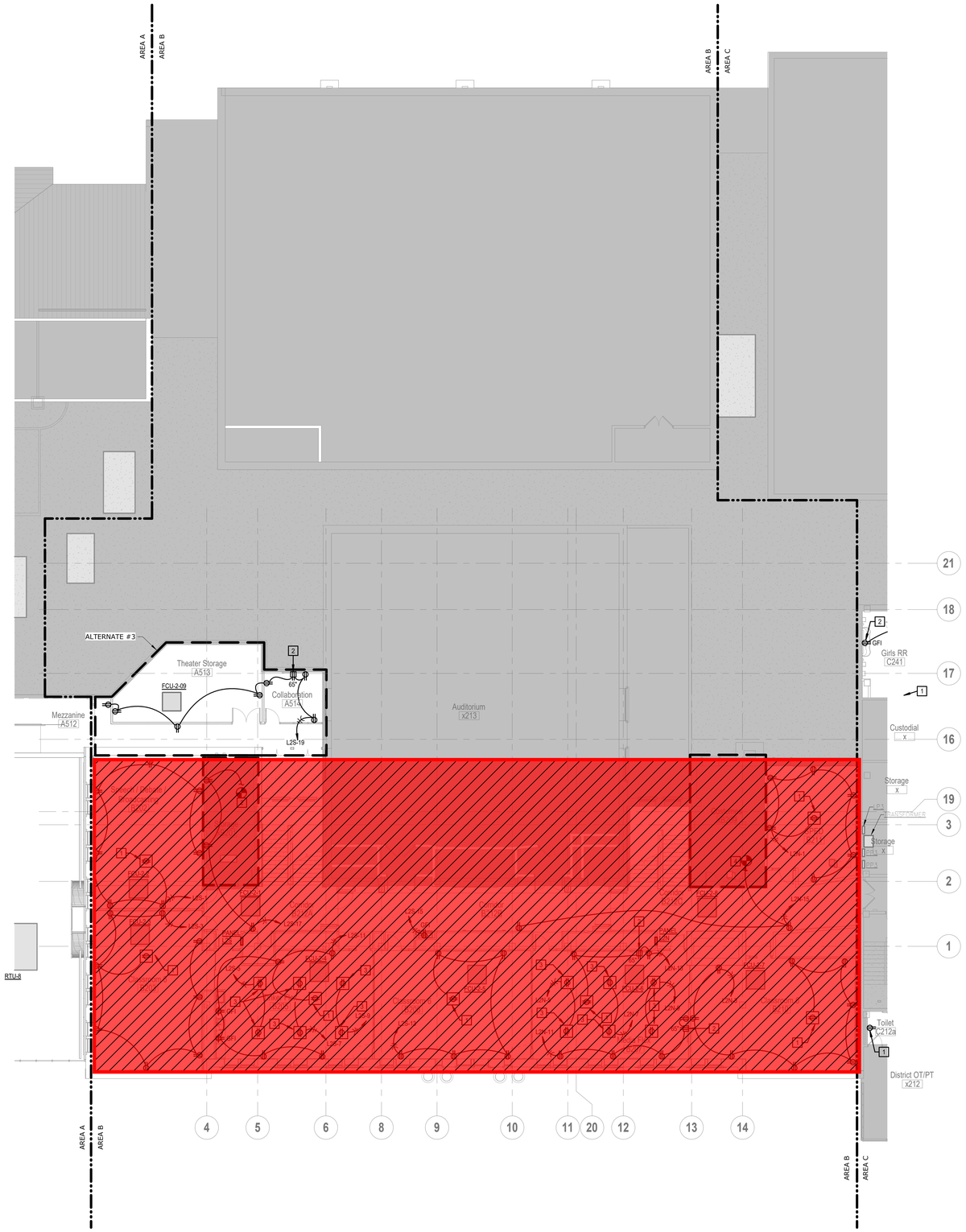
E202A

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

POWER PLAN - LEVEL 2 - AREA A

Please consider the environment before printing this.



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TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. FLUSH MOUNT CEILING RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 10FT EXCESS MC CABLING COILED IN CEILING TO ALLOW RELOCATING RECEPTACLE WITHIN 8 FT RADIUS FROM CENTER OF ROOM.
2. POWER FOR TV. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION.
3. RECEPTACLE FOR RECESSED CORD REEL. COORDINATE LOCATION WITH OTHER TRADES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO RECESSED CEILING MOUNTED CORD REEL AND ENCLOSURE DETAIL, SHEET E304.
4. TIE EXISTING ROOM 120V POWER SERVING RECEPTACLES TO CIRCUIT INDICATED. FIELD DETERMINE EXACT REQUIREMENTS.
5. MODIFY EXISTING SURFACE MOUNT RACEWAY, ASSOCIATED CONDUCTORS AND RECEPTACLES AS REQUIRED TO ACCOMMODATE REMOVAL OF SOUTH WALL, AND ADDITION OF NEW WALL. TIE EXISTING ROOM 120V POWER SERVING RECEPTACLES TO CIRCUIT INDICATED. FIELD DETERMINE EXACT REQUIREMENTS.

= Phase 2 Scope of Work
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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

smith & boucher engineers
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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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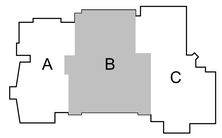
KEY PLAN



JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

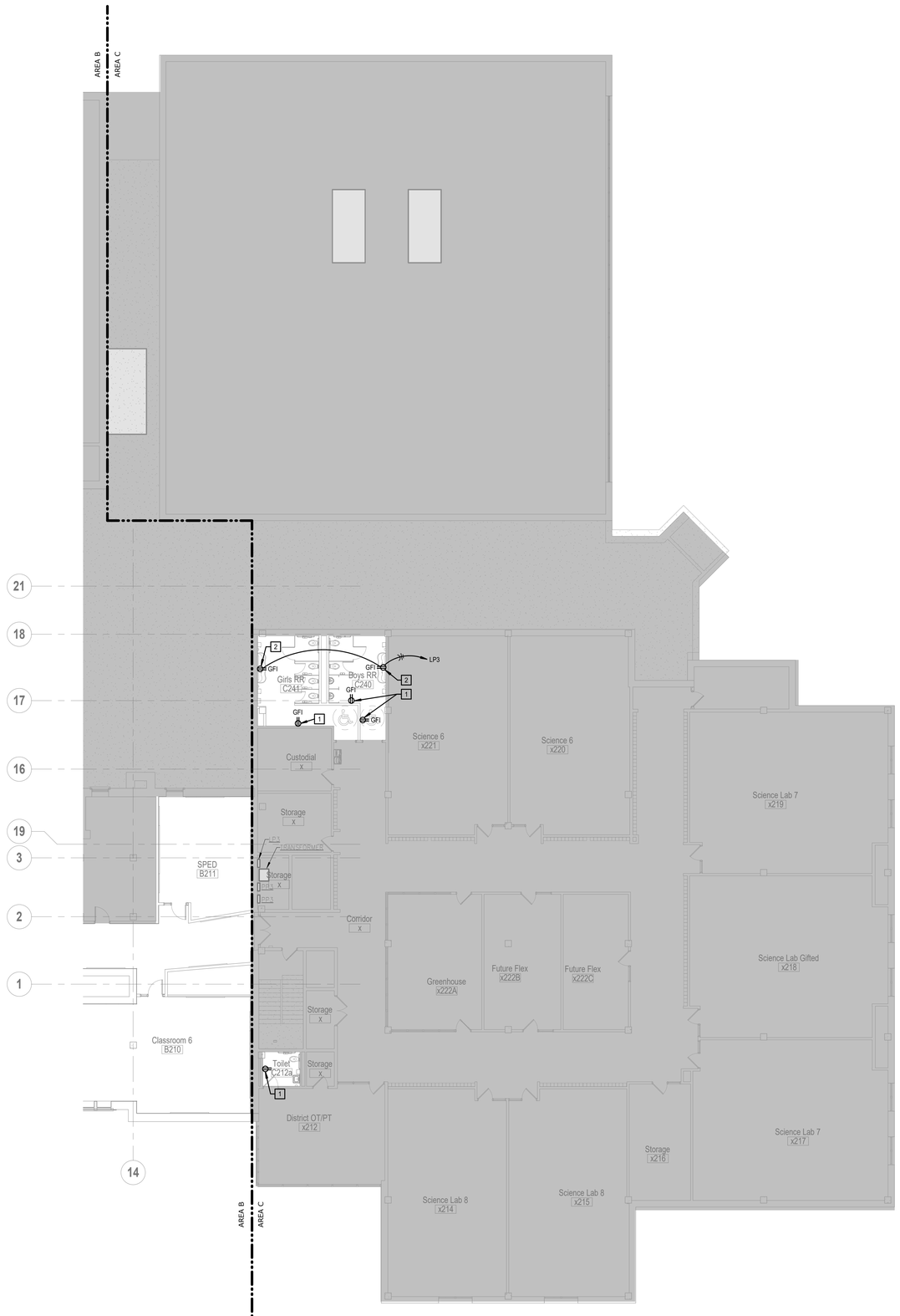
E202B

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

POWER PLAN - LEVEL 2 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

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TYPICAL POWER GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

[1] PROVIDE NEW RECEPTACLE AND FACEPLATE AT EXISTING DEVICE LOCATION. MAINTAIN EXISTING CIRCUIT CONTINUITY TO DEVICE.

[2] PROVIDE RECEPTACLE FOR WASH FOUNTAIN. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. CIRCUIT TO PANEL INDICATED. PROVIDE 20A-1P CIRCUIT BREAKER AS REQUIRED. FIELD VERIFY.

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600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008778
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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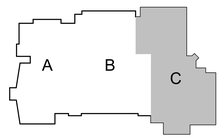
KEY PLAN



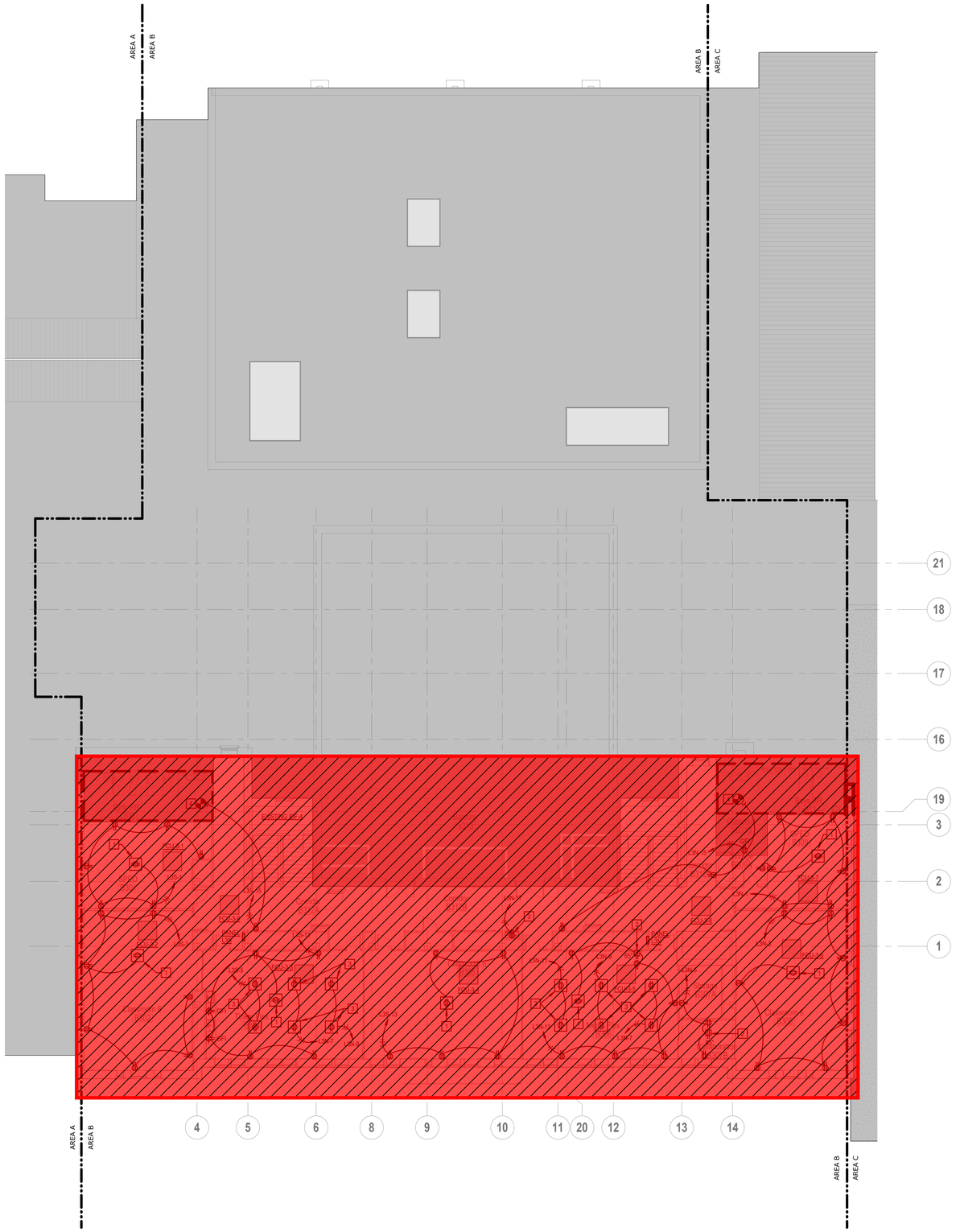
E202C

A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 2 - AREA C

PROJECT NORTH TRUE NORTH

POWER PLAN - LEVEL 2 - AREA C

Please consider the environment before printing this.



A1 | Scale 3/32" = 1'-0" | POWER PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

SHEET KEYNOTE LEGEND

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TYPICAL POWER GENERAL NOTES:

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PLAN NOTES:

1. FLUSH MOUNT CEILING RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 10FT EXCESS MC CABLING COILED IN CEILING TO ALLOW RELOCATING RECEPTACLE WITHIN 8 FT RADIUS FROM CENTER OF ROOM.
2. POWER FOR TV. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION.
3. RECEPTACLE FOR RECESSED CORD REEL. COORDINATE LOCATION WITH OTHER TRADES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO RECESSED CEILING MOUNTED CORD REEL AND ENCLOSURE DETAIL, SHEET E304.
4. TIE EXISTING ROOM 120V POWER SERVING RECEPTACLES AND/OR SENSOR VALVES TO CIRCUIT INDICATED. FIELD DETERMINE EXACT REQUIREMENTS.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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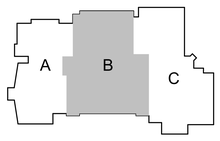
KEY PLAN



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CHECKED BY: RJD
DATE: 12.07.2023

E203B

POWER PLAN - LEVEL 3 - AREA B

Please consider the environment before printing this.

PANEL L1

MAIN BUS AMPS: 150 A
MAIN BREAKER: N/A
VOLTAGE: 208Y/120 V
PHASES/WIRES: 3 PH / 4 W
AIC: 10,000 A
SECTIONS: 1 - 42 SPACE
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
MAIN LUGS ONLY
EQUIPMENT GROUND BUS

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
RCPT-CLASSROOM A400	1	20	1	2	20	1	LTS-CLASSROOM A400,A403
RCPT-CLASSROOM A403	1	20	3	4	20	1	LTS-CLASSROOM A404,SPED A409
RCPT-CLASSROOM A404	1	20	5	6	20	1	LTS-CLASSROOM A406,SPED A410
RCPT-FLEX CONFERENCE A405	1	20	7	8	20	1	LTS-CLASSROOM A407,A402
RCPT-CLASSROOM A406	1	20	9	10	20	1	LTS-FLEX A401,CORR
RCPT-CLASSROOM A407	1	20	11	12	20	1	SPARE
RCPT-CLASSROOM A402	1	20	13	14	20	1	SPARE
RCPT-SPED A410	1	20	15	16	20	1	SPARE
RCPT-SPED A409	1	20	17	18	20	1	SPARE
RCPT-FLEX A401 CORD REEL	1	20	19	20	20	1	SPARE
RCPT-FLEX A401 CORD REEL	1	20	21	22	20	1	SPARE
RCPT-FLEX A401 CORD REEL	1	20	23	24	20	1	SPARE
RCPT-FLEX A401 TEACHING WALL	1	20	25	26	20	1	SPARE
RCPT-FLEX A401 GEN PURP	1	20	27	28	20	1	SPARE
RCPT-DRINKING FOUNTAIN	1	20	29	30	20	1	SPARE
RCPT-DRINKING FOUNTAIN	1	20	31	32	20	1	SPARE
RCPT-RESTROOMS	1	20	33	34	20	1	SPARE
LEVEL 1 VAV UNITS	1	20	35	36	20	1	SPARE
CHAIR LIFT	1	20	37	38	20	1	SPARE
AIR CURTAIN ACT-1	1	20	39	40	20	1	SPARE
AIR CURTAIN AC-1	1	20	41	42	20	1	SPARE

PANEL L2

MAIN BUS AMPS: 150 A
MAIN BREAKER: N/A
VOLTAGE: 208Y/120 V
PHASES/WIRES: 3 PH / 4 W
AIC: 10,000 A
SECTIONS: 1 - 42 SPACE
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
MAIN LUGS ONLY
EQUIPMENT GROUND BUS

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
RCPT-CLASSROOM A500	1	20	1	2	20	1	LTS-CLASSROOM A500,A503,CORR.
RCPT-CLASSROOM A503	1	20	3	4	20	1	LTS-CLASSROOM A504,SPED A509
RCPT-CLASSROOM A504	1	20	5	6	20	1	LTS-CLASSROOM A506,SPED A510
RCPT-FLEX CONFERENCE A505	1	20	7	8	20	1	LTS-CLASSROOM A507,A502,JAN,IDF
RCPT-CLASSROOM A506	1	20	9	10	20	1	LTS-TINKER A501,CORR,MEZZANINE
RCPT-CLASSROOM A507	1	20	11	12	20	1	LTS-COMMONS
RCPT-CLASSROOM A502	1	20	13	14	25	2	AC-1/ACCU-1
RCPT-SPED A510	1	20	15	16			IDF MINI-SPLIT
RCPT-TINKER A501 CORD REEL	1	20	17	18	20	1	SPARE
RCPT-TINKER A501 CORD REEL	1	20	19	20	20	1	SPARE
RCPT-TINKER A501 CORD REEL	1	20	21	22	20	1	SPARE
RCPT-TINKER A501 GEN PURP	1	20	23	24	20	1	SPARE
RCPT-TINKER A501 COUNTER	1	20	25	26	20	1	SPARE
RCPT-SPED A509	1	20	27	28	20	1	SPARE
RCPT-DRINKING FOUNTAIN	1	20	29	30	20	1	SPARE
RCPT-DRINKING FOUNTAIN	1	20	31	32	20	1	SPARE
RCPT-JANITORS RM, IDF GEN PURP	1	20	33	34	20	1	SPARE
RCPT-IDF IT RACK	1	20	35	36	20	1	SPARE
RCPT-IDF EQUIPMENT BOARD	1	20	37	38	20	1	SPARE
RCPT-IDF ACCESS CONTROLS	1	20	39	40	20	1	SPARE
LEVEL 2 VAV UNITS	1	20	41	42	20	1	SPARE

PANEL L2N

MAIN BUS AMPS: 100 A
MAIN BREAKER: N/A
VOLTAGE: 208Y/120 V
PHASES/WIRES: 3 PH / 4 W
AIC: 10,000 A
SECTIONS: 1 - 42 SPACE
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
MAIN LUGS ONLY
EQUIPMENT GROUND BUS

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
RCPT-CLASSROOM B201	1	20	1	2	20	1	LTS-CLASS, FLEX B201, CORRIDOR
RCPT-CLASSROOM B210	1	20	3	4	20	1	LTS-CLASSROOM B200, B204, B210
RCPT-FLEX B201 CORD REEL	1	20	5	6	20	1	LTS-FLEX B201
RCPT-FLEX B201 CORD REEL	1	20	7	8	20	1	FCU-2,3,4
RCPT-FLEX B201 CORD REEL	1	20	9	10	20	1	FCU-5,6
RCPT-FLEX B201	1	20	11	12	20	1	SPARE
RCPT-FLEX B201	1	20	13	14	20	1	SPARE
RCPT-CORR, VESTIBULE B201	1	20	15	16	20	1	SPARE
SPARE	1	20	17	18	20	1	SPARE
SPARE	1	20	19	20	20	1	SPARE
SPARE	1	20	21	22	20	1	SPARE
SPARE	1	20	23	24	20	1	SPARE
SPARE	1	20	25	26	20	1	SPARE
SPARE	1	20	27	28	20	1	SPARE
SPARE	1	20	29	30	20	1	SPARE
SPARE	1	20	31	32	20	1	SPARE
SPARE	1	20	33	34	20	1	SPARE
SPARE	1	20	35	36	20	1	SPARE
SPARE	1	20	37	38	20	1	SPARE
SPARE	1	20	39	40	20	1	SPARE
SPARE	1	20	41	42	20	1	SPARE

PANEL L2S

MAIN BUS AMPS: 100 A
MAIN BREAKER: N/A
VOLTAGE: 208Y/120 V
PHASES/WIRES: 3 PH / 4 W
AIC: 10,000 A
SECTIONS: 1 - 42 SPACE
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
MAIN LUGS ONLY
EQUIPMENT GROUND BUS

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
RCPT-CLASSROOM B200	1	20	1	2	20	1	LTS-CORR, SOFFIT B210, B204, A316
RCPT-CLASSROOM B208	1	20	3	4	20	1	LTS-CLASSROOM B208,B209,B205
RCPT-TINKER B205 CORD REEL	1	20	5	6	20	1	FCU-1,7, EF1,EF2
RCPT-TINKER B205 CORD REEL	1	20	7	8	20	1	FCU-8,9,10, EF3,EF4
RCPT-TINKER B205 CORD REEL	1	20	9	10	20	1	FCU-11,12, EF5,EF6
RCPT-TINKER B205	1	20	11	12	20	1	FCU-13,14
RCPT-CLASSROOM B206	1	20	13	14	20	1	SPARE
RCPT-CLASSROOM B207	1	20	15	16	20	1	SPARE
RCPT-FLEX A314, STOR, A312	1	20	17	18	20	1	SPARE
SPARE	1	20	19	20	20	1	SPARE
SPARE	1	20	21	22	20	1	SPARE
SPARE	1	20	23	24	20	1	SPARE
SPARE	1	20	25	26	20	1	SPARE
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SPARE	1	20	31	32	20	1	SPARE
SPARE	1	20	33	34	20	1	SPARE
SPARE	1	20	35	36	20	1	SPARE
SPARE	1	20	37	38	20	1	SPARE
SPARE	1	20	39	40	20	1	SPARE
SPARE	1	20	41	42	20	1	SPARE

PANEL L3N

MAIN BUS AMPS: 100 A
MAIN BREAKER: N/A
VOLTAGE: 208Y/120 V
PHASES/WIRES: 3 PH / 4 W
AIC: 10,000 A
SECTIONS: 1 - 42 SPACE
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
MAIN LUGS ONLY
EQUIPMENT GROUND BUS

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
RCPT-CLASSROOM B308	1	20	1	2	20	1	LTS-CLASSROOM B308,B304
RCPT-CLASSROOM B306	1	20	3	4	20	1	LTS-CLASSROOM B306,B310
RCPT-CORRIDOR, BOYS, BATH	1	20	5	6	20	1	LTS-CORR, BOYS, RM
RCPT-FLEX B308 CORD REEL	1	20	7	8	20	1	FCU-15,16
RCPT-FLEX B308 CORD REEL	1	20	9	10	20	1	FCU-17,18
RCPT-FLEX B308 CORD REEL	1	20	11	12	20	1	SPARE
RCPT-FLEX B308	1	20	13	14	20	1	SPARE
RCPT-CORR, CUSTODIAN, BOYS, RM	1	20	15	16	20	1	SPARE
DRINKING FOUNTAIN	1	20	17	18	20	1	SPARE
SPARE	1	20	19	20	20	1	SPARE
SPARE	1	20	21	22	20	1	SPARE
SPARE	1	20	23	24	20	1	SPARE
SPARE	1	20	25	26	20	1	SPARE
SPARE	1	20	27	28	20	1	SPARE
SPARE	1	20	29	30	20	1	SPARE
SPARE	1	20	31	32	20	1	SPARE
SPARE	1	20	33	34	20	1	SPARE
SPARE	1	20	35	36	20	1	SPARE
SPARE	1	20	37	38	20	1	SPARE
SPARE	1	20	39	40	20	1	SPARE
SPARE	1	20	41	42	20	1	SPARE

PANEL L3S

MAIN BUS AMPS: 100 A
MAIN BREAKER: N/A
VOLTAGE: 208Y/120 V
PHASES/WIRES: 3 PH / 4 W
AIC: 10,000 A
SECTIONS: 1 - 42 SPACE
MOUNTING: RECESSED
ENCLOSURE TYPE: NEMA 1
MAIN LUGS ONLY
EQUIPMENT GROUND BUS

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
RCPT-CLASSROOM B311	1	20	1	2	20	1	LTS-CLASSROOM B311,B305,B314
RCPT-CLASSROOM B307	1	20	3	4	20	1	LTS-CORR, SOFFIT, RM
RCPT-TINKER B304 CORD REEL	1	20	5	6	20	1	FCU-19,20
RCPT-TINKER B304 CORD REEL	1	20	7	8	20	1	FCU-21,22
RCPT-TINKER B304 CORD REEL	1	20	9	10	20	1	FCU-23,24
RCPT-TINKER B304	1	20	11	12	20	1	SPARE
RCPT-CLASSROOM B303	1	20	13	14	20	1	SPARE
RCPT-CLASSROOM B302	1	20	15	16	20	1	SPARE
RCPT-CORR, SOFFIT, RM	1	20	17	18	20	1	SPARE
SPARE	1	20	19	20	20	1	SPARE
SPARE	1	20	21	22	20	1	SPARE
SPARE	1	20	23	24	20	1	SPARE
SPARE	1	20	25	26	20	1	SPARE
SPARE	1	20	27	28	20	1	SPARE
SPARE	1	20	29	30	20	1	SPARE
SPARE	1	20	31	32	20	1	SPARE
SPARE	1	20	33	34	20	1	SPARE
SPARE	1	20	35	36	20	1	SPARE
SPARE	1	20	37	38	20	1	SPARE
SPARE	1	20	39	40	20	1	SPARE
SPARE	1	20	41	42	20	1	SPARE

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER A-2015040577
PROFESSIONAL ENGINEER
12/7/23

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project number 2314708

E301

ELECTRICAL - SCHEDULES & DETAILS

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jblackburn Thursday, December 7, 2023 2:51:50 PM
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Bosly Quarries
PROJECT NAME:
LOCATION \ NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
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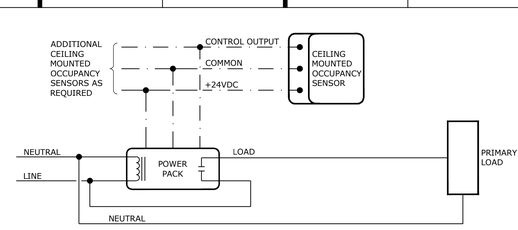
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
A1 A1X	2'x4' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 4,700 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	39
A2 A2X	2'x4' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	29
B1 B1X	2'x2' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	29
C1 C1X	4" OPEN APERTURE LED DOWNLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, INTEGRAL DRIVER, PAINTED WHITE TRIM FLANGE. PROVIDE WITH 0-10V DIMMING DRIVER X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID OR GYP	LED 1,500 LUMENS (DELIVERED) 3500K 80 CRI	UNV	WILLIAMS 4DR INTENSE SD4DR	10
C2 C2X	4" OPEN APERTURE LED DOWNLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, INTEGRAL DRIVER, PAINTED WHITE TRIM FLANGE. PROVIDE WITH 0-10V DIMMING DRIVER X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID OR GYP	LED 2,000 LUMENS (DELIVERED) 3500K 80 CRI	UNV	WILLIAMS 4DR INTENSE SD4DR	20
C3	4" OPEN APERTURE LED DOWNLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, INTEGRAL DRIVER, PAINTED WHITE TRIM FLANGE. PROVIDE WITH 0-10V DIMMING DRIVER	RECESSED GRID OR GYP	LED 3,000 LUMENS (DELIVERED) 3500K 80 CRI	UNV	WILLIAMS 4DR INTENSE SD4DR	28
D1 D1X	1'x4' RECESSED BACK LIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. ADJUSTABLE LUMEN OUTPUT ON FIXTURE X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 2,500 LUMENS (DELIVERED) 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	25
G1	DECORATIVE PENDANT	PEDANT	LED	120		
F1 F1X	6" LED CYLINDER DOWLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, INTEGRAL DRIVER, COLOR AS SELECTED BY ARCHITECT. PROVIDE WITH 0-10V DIMMING DRIVER X = DENOTES EMERGENCY BATTERY BACKUP	PENDENT	LED 3,000 LUMENS (DELIVERED) 3500K 80 CRI	UNV	HALO HCC6	
J1 J1X	4" APERTURE X 8'-0" LINEAR PENDANT DIRECT-ONLY LED FIXTURE WITH FLUSH FROSTED WHITE ACRYLIC LENS . INTEGRAL 1% 0-10V DIMMING DRIVER. 875 LUMENS/FT. COORDINATE DESIRED FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	PENDENT	LED 7,000 LUMENS (DELIVERED) 3500K 80 CRI	UNV	FOCAL POINT SERIES FSM4LS PINNACLE SERIES EX4D AXIS SERIES TB4DLED LUX LUMINAIRE SERIES EOS 4.0 PD	64
K1 K1X	4" APERTURE X 8'-0" LINEAR RECESSED DIRECT-ONLY LED FIXTURE WITH FLUSH FROSTED WHITE ACRYLIC LENS . INTEGRAL 1% 0-10V DIMMING DRIVER. 625 LUMENS/FT. COORDINATE DESIRED FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 5,000 LUMENS (DELIVERED) 3500K 80 CRI	UNV	FOCAL POINT SERIES FSM4LS PINNACLE SERIES EX4D AXIS SERIES TB4DLED LUX LUMINAIRE SERIES EOS 4.0 PD	44
L1 L1X	4" APERTURE X 16'-0" LINEAR RECESSED DIRECT-ONLY LED FIXTURE WITH FLUSH FROSTED WHITE ACRYLIC LENS . INTEGRAL 1% 0-10V DIMMING DRIVER. 875 LUMENS/FT. COORDINATE DESIRED FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 10,.500 LUMENS (DELIVERED) 3500K 80 CRI	UNV	FOCAL POINT SERIES FSM4LS PINNACLE SERIES EX4D AXIS SERIES TB4DLED LUX LUMINAIRE SERIES EOS 4.0 PD	128
L2 L2X	4" APERTURE X 12'-0" LINEAR RECESSED DIRECT-ONLY LED FIXTURE WITH FLUSH FROSTED WHITE ACRYLIC LENS . INTEGRAL 1% 0-10V DIMMING DRIVER. 875 LUMENS/FT. COORDINATE DESIRED FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 10,500 LUMENS (DELIVERED) 3500K 80 CRI	UNV	FOCAL POINT SERIES FSM4LS PINNACLE SERIES EX4D AXIS SERIES TB4DLED LUX LUMINAIRE SERIES EOS 4.0 PD	96
L3 L3X	4" APERTURE X 20'-0" LINEAR RECESSED DIRECT-ONLY LED FIXTURE WITH FLUSH FROSTED WHITE ACRYLIC LENS . INTEGRAL 1% 0-10V DIMMING DRIVER. 875 LUMENS/FT. COORDINATE DESIRED FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 17,500 LUMENS (DELIVERED) 3500K 80 CRI	UNV	FOCAL POINT SERIES FSM4LS PINNACLE SERIES EX4D AXIS SERIES TB4DLED LUX LUMINAIRE SERIES EOS 4.0 PD	160
L4 L4X	4" APERTURE X 8'-0" LINEAR RECESSED DIRECT-ONLY LED FIXTURE WITH FLUSH FROSTED WHITE ACRYLIC LENS . INTEGRAL 1% 0-10V DIMMING DRIVER. 875 LUMENS/FT. COORDINATE DESIRED FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 7,000 LUMENS (DELIVERED) 3500K 80 CRI	UNV	FOCAL POINT SERIES FSM4LS PINNACLE SERIES EX4D AXIS SERIES TB4DLED LUX LUMINAIRE SERIES EOS 4.0 PD	64
L5 L5X	4" APERTURE X 4'-0" LINEAR RECESSED DIRECT-ONLY LED FIXTURE WITH FLUSH FROSTED WHITE ACRYLIC LENS . INTEGRAL 1% 0-10V DIMMING DRIVER. 625 LUMENS/FT. COORDINATE DESIRED FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 2,500 LUMENS (DELIVERED) 3500K 80 CRI	UNV	FOCAL POINT SERIES FSM4LS PINNACLE SERIES EX4D AXIS SERIES TB4DLED LUX LUMINAIRE SERIES EOS 4.0 PD	22
S2 S2X	4'-0" LED STRIP LIGHT WITH ROUND LENS. INTEGRAL DRIVER. WHITE FINISH. 0-10V DIMMING DRIVER. X = DENOTES EMERGENCY BATTERY BACKUP	CHAIN HANG TO ????" UNLESS NOTED	LED 5,000 LUMENS (DELIVERED) 3500K	UNV	WILLIAMS 75 SERIES LITHONIA Z SERIES DAY-BRITE FLUX STREAM STRIP COLUMBIA CSL OR PRE-BID APPROVED EQUAL	
N1	WALL SCONCE	WALL SCONCE	LED	120	HUDSON VALLLEY 3021-AGB/BK	
P1 P1X	36" DIA LED RING, LED DIMMING DRIVER, CUSTOM PAINT FINISH. COORDINATE FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	PENDANT	LED 3,040 LUMENS (DELIVERED) 3500K 90 CRI	UNV	SCOTT ARCH LIGHTING S2791-D-L62	
P2 P2X	36" DIA LED RING, LED DIMMING DRIVER, CUSTOM PAINT FINISH. COORDINATE FINISH WITH ARCHITECT. X = DENOTES EMERGENCY BATTERY BACKUP	PENDANT	LED 3,040 LUMENS (DELIVERED) 3500K 90 CRI	UNV	SCOTT ARCH LIGHTING S2791-D-L62	
X	EDGE LIT EXIT SIGN RED LETTERING. ALUMINUM TRIM. PROVIDE ARROWS AS NOTED ON DRAWINGS, AND SINGLE OR DOUBLE SIDED AS NEEDED AND SHOWN ON DRAWINGS. PROVIDE TOP, BACK, OR SIDE MOUNT HARDWARE AS REQUIRED BY ARCHITECTURAL CONDITIONS. BATTERY CAPABLE OF 90 MINUTES OF EMERGENCY OPERATION.	SURFACE	LED	UNV	DUAL LITE LES SERIES LITHONIA EDGE LIT EXIT EVENLITE TEX EMERGI-LITE TOTAL EDGE OR PRE-BID APPROVED EQUAL	5

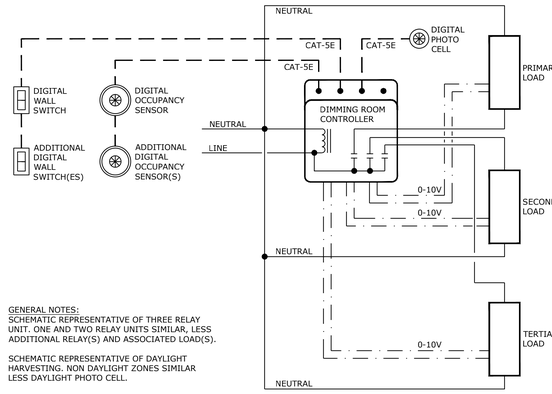
REPLACEMENT LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
RA-L RAX-L	2'x4' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	29
RA-M RAX-M	2'x4' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 4,700 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	39
RA2-M RA2X-M	2'x4' SURFACE MOUNT BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. SURFACE MOUNT KIT. X = DENOTES EMERGENCY BATTERY BACKUP	SURFACE	LED 4,700 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	39
RA3-L RA3X-L	2'x2' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,100 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	25
RA3-M RA3X-M	2'x2' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	29
RA4-L RA4X-L	2'x2' SURFACE MOUNT BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. SURFACE MOUNT KIT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,100 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	25
RA4-M RA4X-M	2'x2' SURFACE MOUNT BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. SURFACE MOUNT KIT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	29
RA5-L RA5X-L	1'x4' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,100 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	26
RA5-M RA5X-M	1'x4' RECESSED BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,600 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	30
RA6-L RA6X-L	1'x4' SURFACE MOUNT BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. SURFACE MOUNT KIT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,100 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	26
RA6-M RA6X-M	1'x4' SURFACE MOUNT BACKLIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE LUMEN OUTPUT AND CCT. SURFACE MOUNT KIT. X = DENOTES EMERGENCY BATTERY BACKUP	RECESSED GRID	LED 3,600 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX OR PRE-BID APPROVED EQUAL	30
RC1	6" LED DOWNLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, MEDIUM DISTRIBUTION, OPEN RELECTOR. INTEGRAL 0-10V DIMMING DRIVER.	RECESSED	LED 2,000 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES 6DR INTENSE SD6DR GOTHAM SERIES EV06 OR PRE-BID APPROVED EQUAL	19
RC2	8" LED DOWLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, MEDIUM DISTRIBUTION, OPEN RELECTOR. INTEGRAL 0-10V DIMMING DRIVER.	RECESSED	LED 2,000 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES 8DR INTENSE SD8DR GOTHAM SERIES EV08 OR PRE-BID APPROVED EQUAL	24
RC3	6" LED DOWLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, WIDE DISTRIBUTION, OPEN RELECTOR. INTEGRAL 0-10V DIMMING DRIVER.	RECESSED	LED 5,000 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES 6DR INTENSE SD6DR GOTHAM SERIES EV06 OR PRE-BID APPROVED EQUAL	44
RC4	6" LED DOWLIGHT WITH WET LISTED SHOOWER TRIM NTEGRAL 0-10V DIMMING DRIVER.	RECESSED	LED 1,500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES 6DR INTENSE SD6DR GOTHAM SERIES EV06 OR PRE-BID APPROVED EQUAL	15
RD	14"x4' LOW PROFILE INDUSTRIAL HIGH BAY. INTEGRAL 0-10V DIMMING DRIVER. WHITE FINISH. WIRE GUARD.	CABLE (FIELD VERIFY)	LED 30,000 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES GL LITHONIA EQUAL DAY-BRITE FLUX STREAM STRIP OR PRE-BID APPROVED EQUAL	200
RS	4'-0" LED STRIP LIGHT WITH ROUND LENS. INTEGRAL 0-10V DIMMING DRIVER. WHITE FINISH.	CHAIN OR CABLE OR SURFACE (FIELD VERIFY)	LED 5,000 LUMENS 3500K 80 CRI	UNV	WILLIAMS 75 SERIES LITHONIA Z SERIES DAY-BRITE FLUX STREAM STRIP OR PRE-BID APPROVED EQUAL	33



LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM WITH AUTOMATIC ON OPERATION

NOT TO SCALE



GENERAL NOTES:
SCHEMATIC REPRESENTATIVE OF THREE RELAY UNIT. ONE AND TWO RELAY UNITS SIMILAR, LESS ADDITIONAL RELAY(S) AND ASSOCIATED LOAD(S).

SCHEMATIC REPRESENTATIVE OF DAYLIGHT HARVESTING. NON DAYLIGHT ZONES SIMILAR LESS DAYLIGHT PHOTO CELL.

DIGITAL ROOM CONTROLLER WIRING DIAGRAM

NOT TO SCALE

LIGHTING CONTROL REQUIREMENTS & DESCRIPTIONS - PER SPACE TYPE

TYPE	LIGHTING CONTROL REQUIREMENTS FOR SPACE
1	CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE AND MINIMUM QUANTITY NOTED ON PLANS, MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 20 MINUTES.
2	CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL ON/OFF CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE, LOCATION(S), AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 20 MINUTES. ON/OFF ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH SWITCH WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT SWITCHES WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC. -ON AND OFF CONTROL FOR EACH ZONE. WITH SEPARATE ENGRAVED BUTTONS FOR ON AND OFF. DENOTE EACH ZONE AND FUNCTION WITH SYMBOL OR ENGRAVING.
3	CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL DIMMING CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 20 MINUTES. DIMMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH SEPARATE ENGRAVED BUTTONS FOR ON AND OFF. DENOTE EACH ZONE AND FUNCTION WITH SYMBOL OR ENGRAVING. -RAISE AND LOWER CONTROL FOR EACH ZONE, WITH SEPARATE ENGRAVED BUTTONS FOR RAISE AND LOWER. DENOTE EACH ZONE AND FUNCTION WITH SYMBOL OR ENGRAVING. AUTOMATIC DAYLIGHT HARVESTING PHOTOCELL(S), WHEN APPLICABLE: -AUTOMATICALLY RAISE/LOWER LIGHTING OUTPUT OF EACH LIGHTING ZONE, EITHER FULLY ARE PARTIALLY, WITHIN EACH DAYLIGHT ZONE(S) NOTED ON FLOOR PLANS. -DEDICATED CLOSED LOOP PHOTOCELL FOR EACH ROOM WITH DAYLIGHT ZONE(S).
4	CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF - MANUAL DIMMING CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 20 MINUTES. DIMMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "A", "B", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH SEPARATE ENGRAVED BUTTONS FOR ON AND OFF. DENOTE EACH ZONE AND FUNCTION WITH SYMBOL OR ENGRAVING. -RAISE AND LOWER CONTROL FOR EACH ZONE, WITH SEPARATE ENGRAVED BUTTONS FOR RAISE AND LOWER. DENOTE EACH ZONE AND FUNCTION WITH SYMBOL OR ENGRAVING. AUTOMATIC DAYLIGHT HARVESTING PHOTOCELL(S), WHEN APPLICABLE: -AUTOMATICALLY RAISE/LOWER LIGHTING OUTPUT OF EACH LIGHTING ZONE, EITHER FULLY ARE PARTIALLY, WITHIN EACH DAYLIGHT ZONE(S) NOTED ON FLOOR PLANS. -DEDICATED CLOSED LOOP PHOTOCELL FOR EACH ROOM WITH DAYLIGHT ZONE(S).
#*	ADDITIONAL EGRESS LIGHTING PROVISIONS NEEDED: POWER PACKS/CONTROLLERS: -SEPARATE DEVICES AND ENCLOSURES AS REQUIRED TO SEPARATELY CIRCUIT THE LIGHT FIXTURES IN EACH ZONE WHICH ARE NOTED TO BE CONNECTED TO EGRESS CIRCUITS. -MUST MEET UL924 REQUIREMENTS FOR REVERTING CONTROL OF ALL EGRESS LIGHTING TO FULL ON DURING A LOSS OF NORMAL POWER TO THE ROOM/BUILDING.

GENERAL NOTES:
NOTE 1: WHERE NOTED ABOVE, SCHEDULED BUILDING HOURS OF OPERATION ARE AS FOLLOWS: 6:30 AM TO 6:30 PM.
NOTE 2: CONTRACTOR MUST INCLUDE SHOP DRAWINGS WITH LIGHTING CONTROLS SUBMITTAL SHOWING WIRING SCHEMATICS/DIAGRAMS OVERLAYED ON FLOOR PLANS FOR EACH ROOM.
NOTE 3: ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.
NOTE 4: PROVIDE A DIGITAL LIGHTING CONTROL SYSTEM FROM A MANUFACTURER LISTED IN SPECIFICATION SECTION 260923 - LIGHTING CONTROL DEVICES. WIRELESS SYSTEMS ARE NOT PERMITTED.
NOTE 5: CONTRACTOR TO MODIFY OCCUPANCY SENSOR LOCATIONS, AND/OR INCREASE QUANTITIES, AS REQUIRED BASED ON COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.
NOTE 6: CONTRACTOR MUST COORDINATE WITH LIGHT FIXTURE SCHEDULE, AND MOST IMPORTANTLY THE LIGHT FIXTURE SUBMITTAL, TO VERIFY DIMMING TYPE NEEDED FOR EACH RELAY/CONTROLLER.
NOTE 7: PROGRAM DAYLIGHT HARVESTING SETPOINTS AT NIGHT WITH ALL LIGHT FIXTURES AT FULL LIGHT OUTPUT. PHOTOCELL TO DIM LIGHTING BASED ON THIS SETPOINT IN A CLOSED LOOP SYSTEM.
NOTE 8: CONTRACTOR TO MODIFY PHOTOCELL LOCATIONS AS REQUIRED BASED ON SUBMITTED PRODUCTS.

OCCUPANCY CONTROL DEVICE SCHEDULE

SYMBOL	DESCRIPTION	DETECTION TYPE	SETTINGS (TYPICAL)	MANUFACTURER/MODEL	NOTES
$VS	WALL MOUNTED SWITCH/VACANCY SENSOR LINE VOLTAGE - SINGLE RELAY	PASSIVE INFRARED	ON: MANUAL OFF: 20 MINUTE DELAY	WATTSTOPPER CS-50	1,2
$VD	WALL MOUNTED SWITCH/VACANCY SENSOR LINE VOLTAGE - SINGLE RELAY - WITH DIMMING	DUAL TECHNOLOGY	ON: MANUAL OFF: 20 MINUTE DELAY	WATTSTOPPER DW-311	1,2
$LS#	WALL MOUNTED LIGHTING SYSTEM ON/OFF SWITCH # INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION	-	-	PER SUBMITTAL	1,2
$LD#	WALL MOUNTED LIGHTING SYSTEM DIMMER SWITCH # INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION	-	-	PER SUBMITTAL	1,2
$LC#	WALL MOUNTED LIGHTING SYSTEM SCENE SELECTOR SWITCH # INDICATES QUANTITY OF SCENES CONTROLLED AT EACH LOCATION	-	-	PER SUBMITTAL	1,2
$LT#	WALL MOUNTED LIGHTING SYSTEM TOUCHSCREEN # INDICATES ROOM NUMBER WHERE TOUCHSCREEN IS LOCATED	-	-	PER SUBMITTAL	1,2
$DT	CEILING MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR	DUAL TECHNOLOGY	-	PER SUBMITTAL	1,3,4
$DT	WALL MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR	DUAL TECHNOLOGY	-	PER SUBMITTAL	1,3
$HB	CEILING MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR	EXTENDED HEIGHT (HIGH BAY)		PER SUBMITTAL	1,3,4
PC	CEILING MOUNTED LIGHTING SYSTEM INTERIOR PHOTOCELL	CLOSED LOOP	-	PER SUBMITTAL	1

NOTE 1: THE MANUFACTURERS AND MODELS LISTED ARE BASIS OF DESIGN, ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. RE: PLANS FOR QUANTITIES.
NOTE 2: ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.
NOTE 3: SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.
NOTE 4: MODIFY LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED SO THAT NO OCCUPANCY SENSOR IS WITHIN 4'-0" OF AN HVAC SUPPLY DIFFUSER.
NOTE 5: DEVICE SHALL CONNECT TO UTILITY POWER BRANCH DURING NORMAL OPERATION, AND SWITCH TO GENERATOR BRANCH CIRCUIT DURING A LOSS OF UTILITY POWER CIRCUIT.

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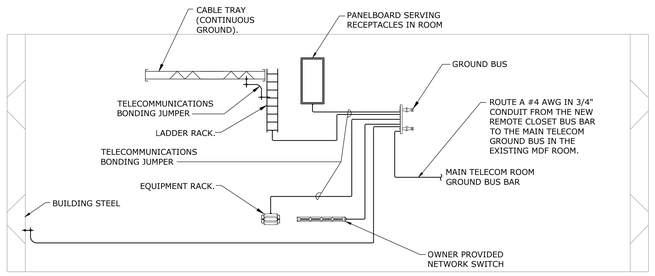
**Smith



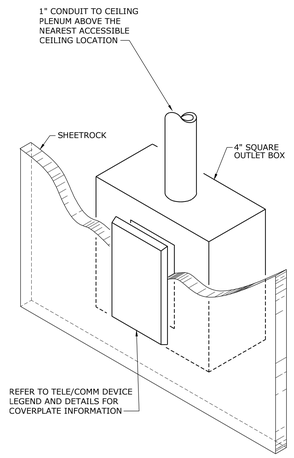
REMOTE TELECOMM ROOMS/ENCLOSURES

NOTE:

1. ALL CONDUCTORS IN THIS GROUNDING RISER SHALL BE #6 AWG COPPER CONDUCTORS (GREEN) UNLESS NOTED OTHERWISE.

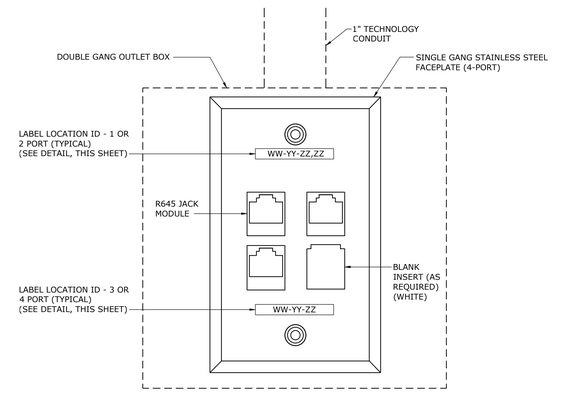
COMMUNICATIONS GROUNDING RISER DIAGRAM

NO SCALE



DATA OUTLET ROUGH-IN DETAIL

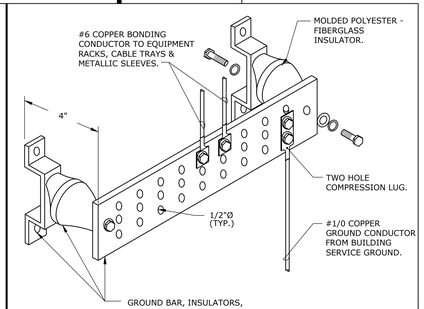
NOT TO SCALE



*FILL FACEPLATE WITH OUTLET CONNECTORS STARTING AT THE TOP LEFT POSITION THEN LEFT-TO-RIGHT, TOP-TO-BOTTOM. REMAINING OPENINGS SHALL BE FITTED WITH BLANK INSERTS.

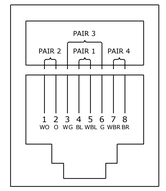
WALL MOUNTED PHONE/DATA OUTLET

NO SCALE



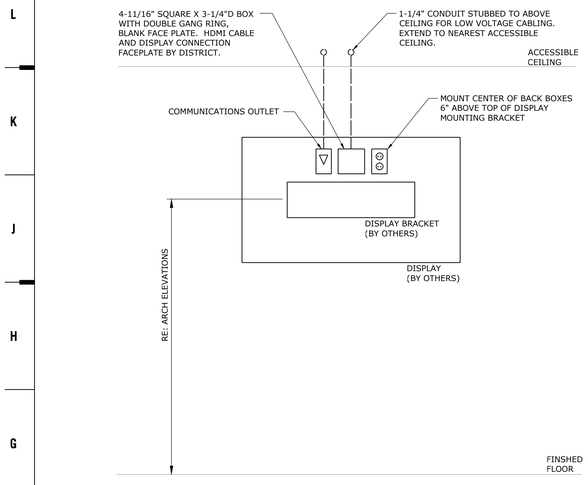
GROUND BAR - REMOTE CLOSETS

NOT TO SCALE



EIGHT POSITION JACK PIN/PAIR ASSIGNMENTS ANSI/TIA/EIA T568B

NOT TO SCALE

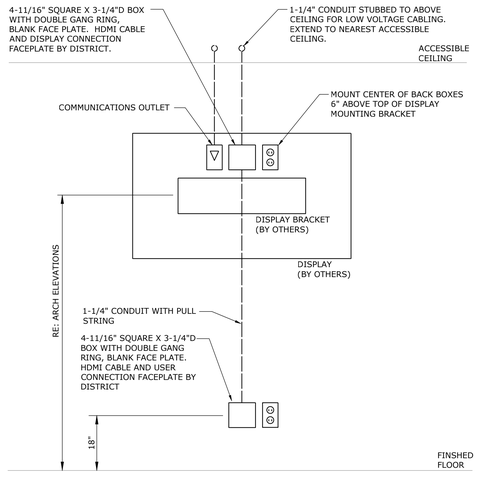


GENERAL NOTES

1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT T.V. MOUNTING LOCATION.
2. REFER TO POWER FLOOR PLANS FOR RECEPTACLE CIRCUITING INFORMATION.

DISPLAY INFRASTRUCTURE DETAIL

NOT TO SCALE (SYMBOLS ▽TV/#D)

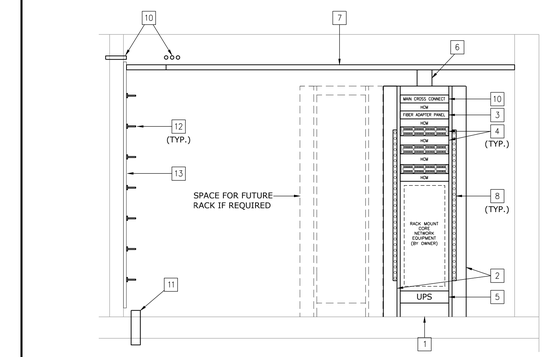


GENERAL NOTES

1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT T.V. MOUNTING LOCATION.
2. REFER TO POWER FLOOR PLANS FOR RECEPTACLE CIRCUITING INFORMATION.

DISPLAY WITH USER CONNECTION BELOW INFRASTRUCTURE DETAIL

NOT TO SCALE (SYMBOLS ▽TV/#D ▽HDMI)



PLAN NOTES:

1. TELECOMMUNICATIONS FLOOR MOUNTED RACK.
2. VERTICAL CABLE MANAGER.
3. FIBER OPTIC ADAPTER PANEL FOR FIBER BACKBONE CABLING TERMINATION.
4. QUANTITY OF HORIZONTAL CABLE MANAGEMENT AND 48-PORT PATCH PANELS ARE DIAGRAMMATIC ONLY - CONTRACTOR TO PROVIDE QUANTITY OF UTP, AND HORIZONTAL CABLE MANAGERS TO TERMINATE ALL CABLING PLUS A GROWTH OF 25%. THERE SHALL BE A HORIZONTAL CABLE MANAGEMENT DEVICE ABOVE AND BELOW EACH PATCH PANEL.
5. RACK MOUNTED UPS.
6. PROVIDE ONE RUNWAY EXTENSION KIT FOR EVERY EQUIPMENT RACK INSTALLED; EXTENSION KIT TIES LADDER RACK TO EQUIPMENT RACK TO PREVENT MOVEMENT OF THE UPPER PORTION OF EQUIPMENT RACK.
7. LADDER RACK MOUNTED 6" ABOVE TOP OF RACK. PROVIDE RUNWAY RADIUS DROP AT EACH RACK LOCATION. REFER TO FLOOR PLANS FOR LADDER RACK SIZE AND ROUTING IN EACH DATA CLOSET.
8. VERTICAL POWER DISTRIBUTION UNIT (PDU).
9. FIBER OPTIC ADAPTER PANEL FOR CROSS CONNECT TO SERVICE PROVIDER DEMARC LOCATION. OCCURS ONCE IN MAIN DISTRIBUTION FRAME (MDF) CLOSET.

PLAN NOTES:

10. CONDUIT SLEEVES OUT OF IDF AS REQUIRED.
11. CONDUIT SLEEVES DOWN THROUGH FLOOR TO LEVEL 1. REFER TO FLOOR PLANS.
12. D-RINGS FOR VERTICAL CABLE MANAGEMENT BETWEEN LADDER RACK AND DOWN THRU FLOOR. QUANTITY AND SIZE AS REQUIRED.
13. PLYWOOD BACKBOARD, REFER TO FLOOR PLANS.

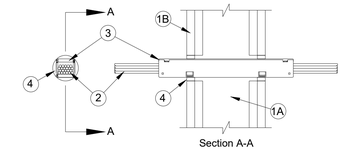
GENERAL NOTES:

1. ELEVATION SHOWS INTENT OF EQUIPMENT IN I.T. RACK. RACK AND ALL EQUIPMENT IS EXISTING, TO BE RELOCATED BY THE DISTRICT. MAKE ALL CABLE CONNECTIONS AS REQUIRED PER SPECIFICATIONS/PLANS.
2. COORDINATE WITH OWNER PRIOR TO WORK BEGINNING. ADJUST PATCH PANEL(S) AND HORIZONTAL CABLE MANAGER(S) AS NEEDED PER OWNER DIRECTION.
3. REFER TO FLOOR PLANS FOR RACK LOCATION(S), LADDER RACK LAYOUT(S), AND INSTALL CLEARANCES.

TYPICAL TELECOM RACK ELEVATION

NO SCALE

System No. W-L-3256
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1, 1-1/4 and 1-3/4 Hr (See Item 2)
L Rating At Ambient - Less Than 1 or 1.4 CFM (See Item 3)
L Rating At 400 F - Less Than 1 or 1.4 CFM (See Item 3)



Section A-A

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400 or V400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Opening in gypsum board to accommodate firestop device to be max 3 in. (76 mm) wide by max 2-1/2 in. (64 mm) high, or nom 2 in. (51 mm) diameter. The hourly F Rating of the firestop system is dependent upon the hourly rating of the wall in which it is installed.
2. Cables - Within the loading area for each firestop device module, the cables may represent a 0 to 100 percent visual fill. Cable fill to be distributed at a uniform height across the width of the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max four pair No. 22 AWG (or smaller) copper conductor data cable with polyvinyl chloride (PVC) or plenum rated jacketing and insulation.
   B. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing.
   C. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/4 in. (6 mm).
   The T Rating is 1 hr and 1-3/4 hr in 1 hr and 2 hr rated walls, respectively, when no cables are installed in firestop device. The T Rating is 1 hr and 1-1/4 hr in 1 hr and 2 hr rated walls, respectively, when cables are installed in firestop device.
   The L Rating for the empty firestop device is less than 1.4 cfm at ambient and at 400F. When Item 3A is used, the L Rating with 100 percent visual fill of cable is less than 1 CFM at ambient and at 400F.
3. Firestop Device* - Firestop device consists of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device to be installed in accordance with the accompanying installation instructions. Prior to installation within wall, lid removed from device to capture grouped cables. After wall such that lid is on top and ends project an equal distance from the ``approximate'' centerline of the wall assembly. The space between the device and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1/2 in. (13 mm).
   SPECIFIED TECHNOLOGIES INC - EZ PATH Series 22 Fire Rated Pathway
4. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of sealant to be applied in annular space between firestop device and periphery of opening on each side of wall assembly. Nom 3/8 in. (10 mm) diam bead of fill material applied at the point contact location between the firestop device and gypsum board wall on both sides of the wall assembly.
   SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant, SpecSeal LCI Sealant, SpecSeal LC150 Sealant, Pensil 300 Sealant or SpecSeal Series SSL300 Sealant
   *Bearing the UL Classification Mark

TELECOMMUNICATIONS CABLING AT FIRE WALL PENETRATIONS

NOT TO SCALE

TELECOMMUNCATION DEVICE SCHEDULE		
SYMBOL	**DESCRIPTION**	**NOTES**
▽#D #DA	WALL MOUNTED DATA OUTLET (#D) DATA CAT6 JACKS AS NOTED ON PLANS (#DA) DATA CAT6A JACKS AS NOTED ON PLANS	1,2
▽#D #DA	ABOVE CEILING DATA OUTLET (#D) DATA CAT6 JACKS AS NOTED ON PLANS (#DA) DATA CAT6A JACKS AS NOTED ON PLANS	1,2,3
▽TV/#D	WALL MOUNT DATA OUTLET FOR TV (#D) DATA CAT6 JACKS AS NOTED ON PLANS (#DA) DATA CAT6A JACKS AS NOTED ON PLANS	1,2,4
▽HDMI	WALL MOUNTED USER CONNECTION FOR TV HBMI CABLE PROVIDED BY DISTRICT	2,5
1	WALL MOUNTED INTERCOM STATION CABLE(S) PROVIDED BY DISTRICT	6

NOTES:
1. ALL CABLING ROUTED DIRECTLY TO TELECOMMUNICATIONS ROOM UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.

2. REFER TO SPECIFICATIONS FOR FURTHER CABLING AND TERMINATION DETAILS.

3. COORDINATE EXACT LOCATION ABOVE CEILING FOR TERMINATION OF DEVICE(S). COORDINATE CABLE TYPE AND QUANTITY WITH DISTRICT REPRESENTATIVE. TERMINATE TO HIGH DENSITY JACK PER SPECIFICATIONS. OUTLETS SERVE CAMERAS, SPEAKERS, INTERCOM, AND/OR DATA AS REQUIRED BY THE DISTRICT.

4. REFER TO DISPLAY INFRASTRUCTURE DETAILS FOR ADDITIONAL INFORMATION. PROVIDE COMMUNICATIONS OUTLET BOX AND LOW VOLTAGE BOX.

5. REFER TO DISPLAY WITH USER CONNECTION BELOW INFRASTRUCTURE DETAIL FOR ADDITIONAL INFORMATION. PROVIDE CONDUIT BETWEEN CONNECTION BOX AND LOW VOLTAGE BOX BEHIND DISPLAY.

6. PROVIDE 4" SQUARE BACK BOX WITH SINGLE GANG RING, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. COMMUNICATIONS CABLE(S) AND DEVICE BY DISTRICT.

TELECOMMUNICATIONS DEVICE SCHEDULE

NO SCALE

TYPICAL LABELING SCHEME (FOR HORIZONTAL COMPONENTS)

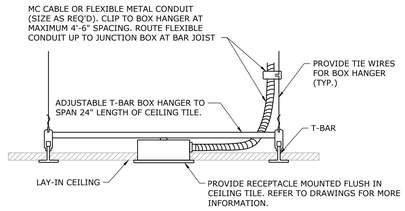
W – YY – ZZ

- W — COMMUNICATIONS ROOM DESIGNATION (SINGLE LETTER), PROVIDED BY SCHOOL DISTRICT
- YY — PANEL# (01, 02, 03, ETC.)
- ZZ — 2-DIGIT PORT # (01, 02, 03, ETC.)

W	- IDENTIFIES THE DATA ROOM (IDF) LETTER FROM WHICH THE OUTLET IS SERVED FROM
YY	- IDENTIFIES THE OUTLET LOCATION. BEGIN LABELING WITH 01 IN EACH ROOM AT THE NORTHWEST CORNER INCREMENTING BY 05 EVERY OUTLET IN A CLOCKWISE MANNER
ZZ	- IDENTIFIES THE INDIVIDUAL OUTLET AND CABLE. BEGIN LABELING WITH 01 IN THE TOP LEFT CORNER OF FACE PLATE AT THE WORK AREA AND INCREMENT BY ONE FOR EVERY PORT OPENING FROM LEFT TO RIGHT AND TOP TO BOTTOM.

LABELING SCHEME - TELECOMMUNICATIONS

NO SCALE



CEILING MOUNTED OUTLET DETAIL

NOT TO SCALE

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations

Liberty Public Schools

600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015046171
PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

E303

ELECTRICAL - SCHEDULES & DETAILS

PROJECT NAME:
AUTOCAD FILE LOCATION \\ NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:

2314708 Liberty SD 2023 - Heritage Middle School Renovation
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Booty Booty Thursday, December 7, 2023 3:15:06 PM

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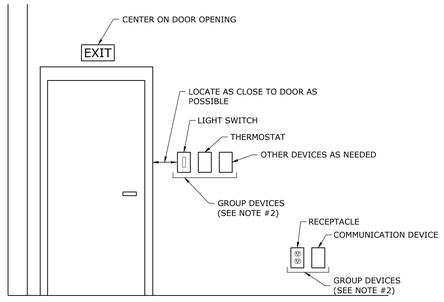
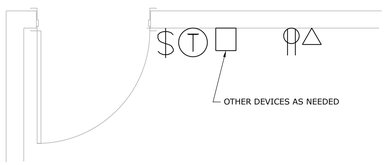


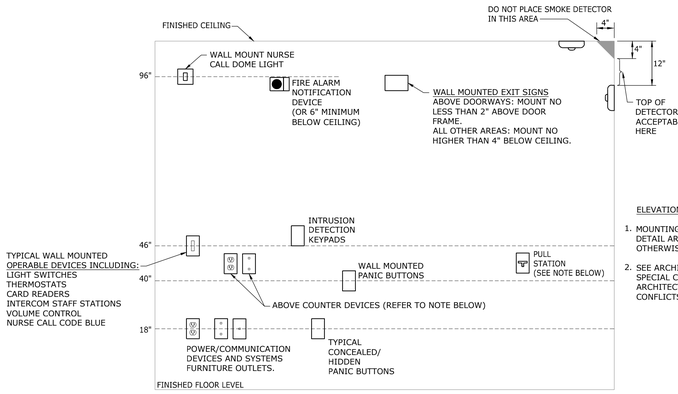
ELEVATION



PLAN

NOTES

1. FOR GENERAL MOUNTING REFERENCE ONLY, REFER TO PLANS FOR ALL DEVICE LOCATIONS AND QUANTITIES.
2. UNLESS NOTED OTHERWISE, DEVICE LOCATIONS SHOWN NEXT TO ONE ANOTHER ON PLAN (OR SAME LOCATION ON DIFFERENT SHEETS) TO BE MOUNTED SUCH THAT THE FINISHED FACE PLATES ARE 2" APART. PROVIDE SPANNER BRACKET BETWEEN WALL STUDS FOR BACK BOX MOUNTING AS NEEDED.



ELEVATION GENERAL NOTES:

1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS SHOWN OTHERWISE ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.

FIRE ALARM NOTIFICATION DEVICES

- MOUNT SO THAT ENTIRE LENS OF DEVICE IS NOT LESS THAN 80" AFF.

PULL STATIONS (FIRE ALARM ACTIVATION DEVICE)

- HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) ADA 2010. OPERABLE PART (T-HANDLE) SHALL BE NOT LESS THAN 42" AFF (NFPA).

WALL MOUNTED OPERABLE DEVICES

- WALL MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
  - THERMOSTATS.
  - LIGHTING SWITCHES/DIMMERS/CONTROLS
  - INTERCOM-STAFF STATIONS (MASTER STATIONS @ 18" AFF)
  - PUSH BUTTONS
  - OTHER CONTROL OR "CALL" DEVICES

ABOVE COUNTER DEVICES

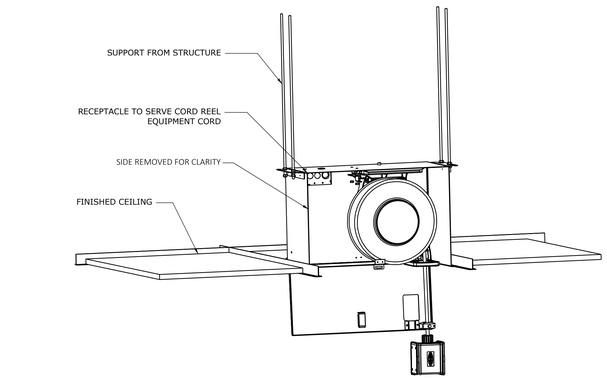
- ABOVE COUNTER DEVICES SHALL BE LOCATED 2" ABOVE THE BACKSPLASH OF COUNTER TO THE BOTTOM OF DEVICES (PLAN DESIGNATION ⊕⊕⊕). VERIFY W/ ARCHITECTURAL DETAILS PRIOR TO WORK BEGINNING.

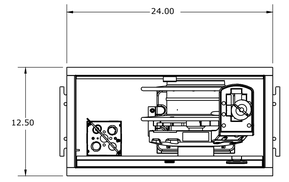
LIGHT FIXTURES

- REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.

WALL MOUNTED DEVICES: MOUNTING HEIGHTS

NO SCALE





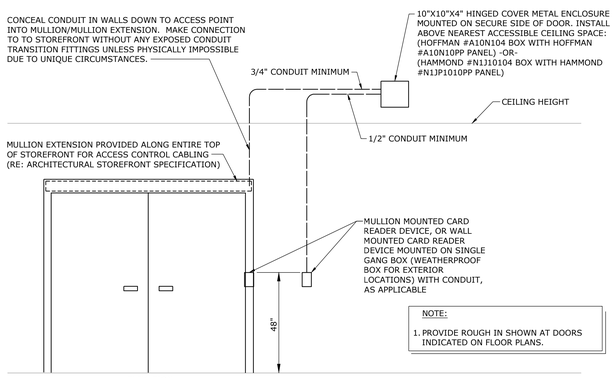
*ENCLOSURE TO MOUNT WITHIN STANDARD 2X4 GRID CEILING OR GYP CEILING WHERE LOCATED ON PLAN.

NOTES:

1. PROVIDE PLENUM-RATED CORD REEL ENCLOSURE WITH CORD REEL WHERE DESIGNATED ON PLAN. ENCLOSURE TO BE UL LISTED AND MEET THE NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS FOR PLENUM RATING.
2. PROVIDE DUPLEX RECEPTACLE WITHIN ENCLOSURE TO SERVE CORD REEL EQUIPMENT CORD.
3. BASIS OF DESIGN IS THE HUBBELL #HBLIPRBOX WITH COMPATIBLE HUBBELL #HBL SERIES CORD REEL. CORD REEL IS REQUIRED TO MOUNT WITHIN PLENUM RATED CORD REEL ENCLOSURE.
4. UNLESS NOTED OTHERWISE, PROVIDE CORD REEL WITH: (2) TWO TAMPER-RESISTANT 20A/120V NEMA 5-20R RECEPTACLES (BLACK RECEPTACLE ENCLOSURE), INLINE GFCI PROTECTION, MINIMUM 25'-0" LONG RETRACTABLE 12/3 S.O. CORD WITH STRAIN RELIEF, STOP GUIDES, WHITE FINISH, STEEL HOUSING.
5. REFER TO FLOOR PLAN FOR CIRCUITING INFORMATION.
6. INSTALL ALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

RECESSED CEILING MOUNTED CORD REEL AND ENCLOSURE

NOT TO SCALE



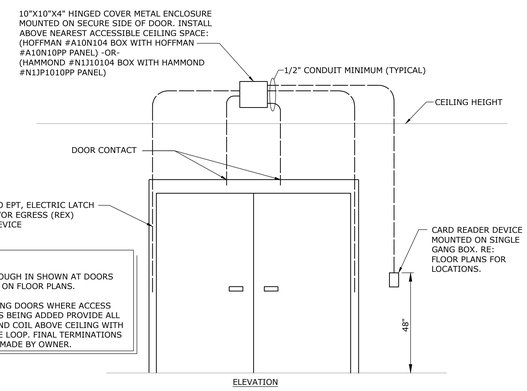
NOTE:

1. PROVIDE ROUGH IN SHOWN AT DOORS INDICATED ON FLOOR PLANS.

ELEVATION

DOOR INFRASTRUCTURE - STOREFRONT DOORS

NOT TO SCALE



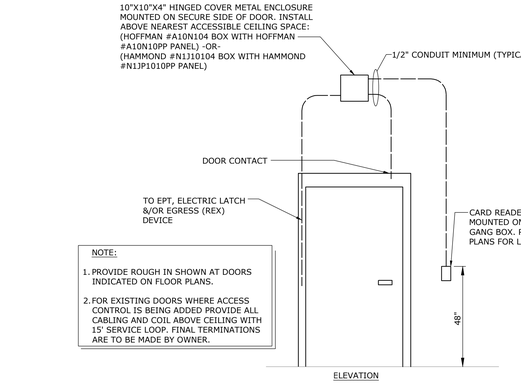
NOTE:

1. PROVIDE ROUGH IN SHOWN AT DOORS INDICATED ON FLOOR PLANS.
2. FOR EXISTING DOORS WHERE ACCESS CONTROL IS BEING ADDED PROVIDE ALL CABLING AND COIL ABOVE CEILING WITH 15' SERVICE LOOP. FINAL TERMINATIONS ARE TO BE MADE BY OWNER.

ELEVATION

DOOR INFRASTRUCTURE - DOUBLE DOOR DETAIL

NOT TO SCALE



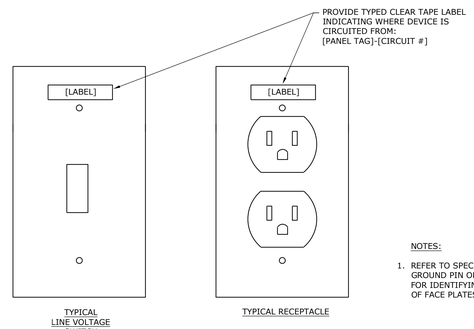
NOTE:

1. PROVIDE ROUGH IN SHOWN AT DOORS INDICATED ON FLOOR PLANS.
2. FOR EXISTING DOORS WHERE ACCESS CONTROL IS BEING ADDED PROVIDE ALL CABLING AND COIL ABOVE CEILING WITH 15' SERVICE LOOP. FINAL TERMINATIONS ARE TO BE MADE BY OWNER.

ELEVATION

DOOR INFRASTRUCTURE - SINGLE DOOR DETAIL

NOT TO SCALE



TYPICAL LINE VOLTAGE SWITCH

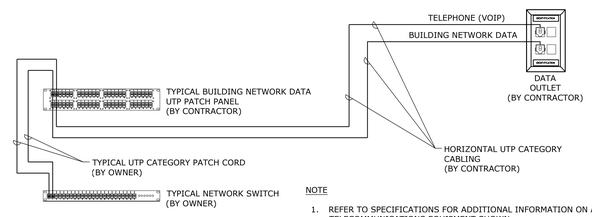
TYPICAL RECEPTACLE

NOTES:

1. REFER TO SPECIFICATIONS FOR RECEPTACLE GROUND PIN ORIENTATION. THIS DETAIL IS FOR IDENTIFYING LABELING REQUIREMENTS OF FACE PLATES ONLY.

WIRING DEVICE FACE PLATES - LABELING

NOT TO SCALE



NOTE

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON ALL TELECOMMUNICATIONS EQUIPMENT SHOWN.

TYPICAL TELECOM CLOSET TO DATA OUTLET DIAGRAM

NO SCALE

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100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI — RYAN JEROD DIEDIKER — NUMBER A-2015046 — PROFESSIONAL ENGINEER — 12/7/23

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JOB NO: 23024
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 12.07.2023

E304

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314708

ELECTRICAL - SCHEDULES & DETAILS

PROJECT NAME: 2314708 Liberty SD 2023 - Heritage Middle School Renovations
ADDRESS: 600 W Kansas St Liberty, MO 64068
LAST CORRECTION BY ♦ JOB: 2314708_Heritage Middle School_CM.dwg
PLOTTED BY ♦ DATE ♦ TIME: Jakub Kurtin Thursday, December 7, 2023 12:01:57 PM
Booty Galleries Thursday, December 7, 2023 3:15:37 PM

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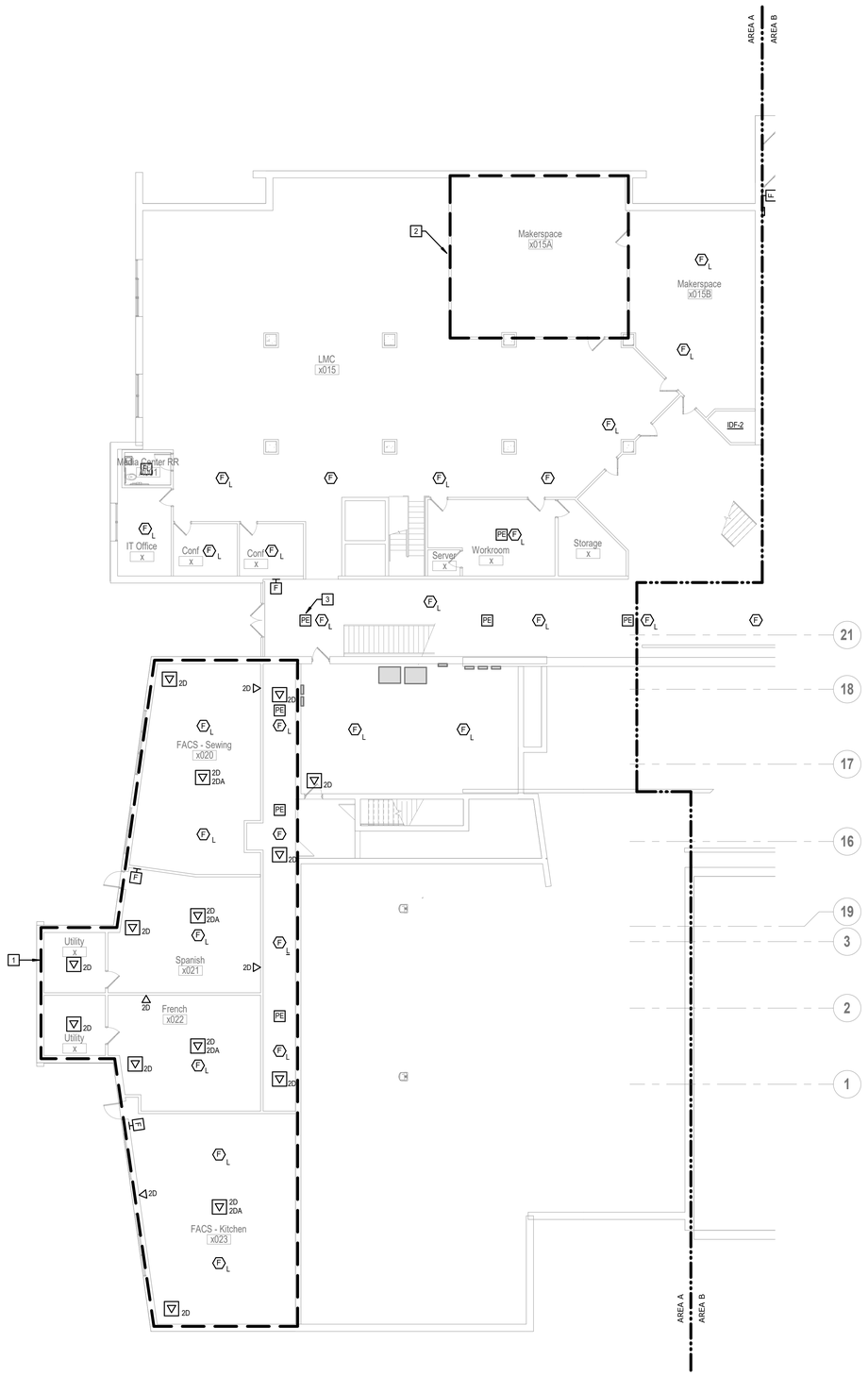


SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL FIRE ALARM GENERAL NOTES:

1. BIDDING FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR PREPARING SIGNED/SEALED SHOP DRAWINGS AND INSTALLING A DESIGN-BUILD FIRE ALARM SYSTEM FOR THE ENTIRE BUILDING BASED ON THE APPROXIMATE DEVICE LOCATIONS AND SCOPE COORDINATION SHOWN ON THESE PLANS. ACTUAL DEVICE TYPE, LOCATION, REFER TO PERFORMANCE SPECIFICATION SECTION 283111.
2. PLENUM RATED FIRE ALARM CABLING IS ALLOWED ONLY IN PLENUM AREAS ABOVE SUSPENDED CEILINGS.
3. SET CANDELA SETTINGS ON ALL STROBES PER THE REQUIREMENTS OF NFPA 72.
4. FURNISH AND INSTALL DUCT MOUNTED SMOKE DETECTORS AT EACH RTU RETURN AIR INLET AND FPVAV TERMINAL 2000 CFM AND ABOVE. PROVIDE ALL ASSOCIATED TRANSFORMERS, MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION. VERIFY LOCATIONS AND QUANTITIES WITH HVAC FLOOR PLANS AND EQUIPMENT SCHEDULES, AS WELL AS FIELD INVESTIGATION OF ALL EXISTING HVAC EQUIPMENT.

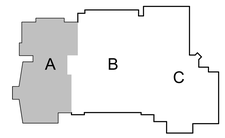
TYPICAL LOW VOLTAGE GENERAL NOTES:

1. INSTALL NYLON BUSHING AT THE END OF ALL LOW VOLTAGE CONDUITS AND SLEEVES.
2. ALL EMPTY LOW VOLTAGE CONDUITS TO BE INSTALLED WITH PULL STRINGS.
3. PROVIDE ONE (1) DATA DROP TO FIRE ALARM CONTROL PANEL, AND BAS CONTROLLER FROM. COORDINATE BAS CONTROLLER LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO PULLING OF CABLE. MAKE ALL CONNECTIONS TO EACH DEVICE AS DIRECTED BY MANUFACTURER.
4. REFER TO "TELECOMMUNICATION DEVICE SCHEDULE" FOR CABLING REQUIREMENTS OF ALL SYMBOLS SHOWN.
5. REFER TO ALL LOW VOLTAGE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LOW VOLTAGE SCOPE.

PLAN NOTES:

1. LOW VOLTAGE SCOPE FOR AREA WITHIN BOUNDARY INCLUDES NEW FIRE ALARM, AND NEW CABLING/DEVICES AS SHOWN. NEW CABLING TO TERMINATE TO THE NEW IDF ON LEVEL-2 (REFER TO LV102A). FIELD DETERMINE EXACT CONDITIONS. THESE SPACES ARE EXISTING, WITH NO ADDITIONAL WORK.
2. FIRE ALARM CONTRACTOR SHALL PROVIDE CODE REQUIRED FIRE ALARM SYSTEM LAYOUT FOR VAULTED MAKERSPACE. LAYOUT SHALL MINIMIZE IMPACT TO EXISTING CONSTRUCTION AND FINISHES. SUBMIT LAYOUT FOR COORDINATION. INTENT IS TO NOT DISTURB FINISHES AND MINIMIZE SURFACE RACEWAY. FIELD DETERMINE EXACT CONDITIONS.
3. SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED.

KEY PLAN



PROJECT NORTH TRUE NORTH

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Structure # 2006031333

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project number 2314708

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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JOB NO: 23024
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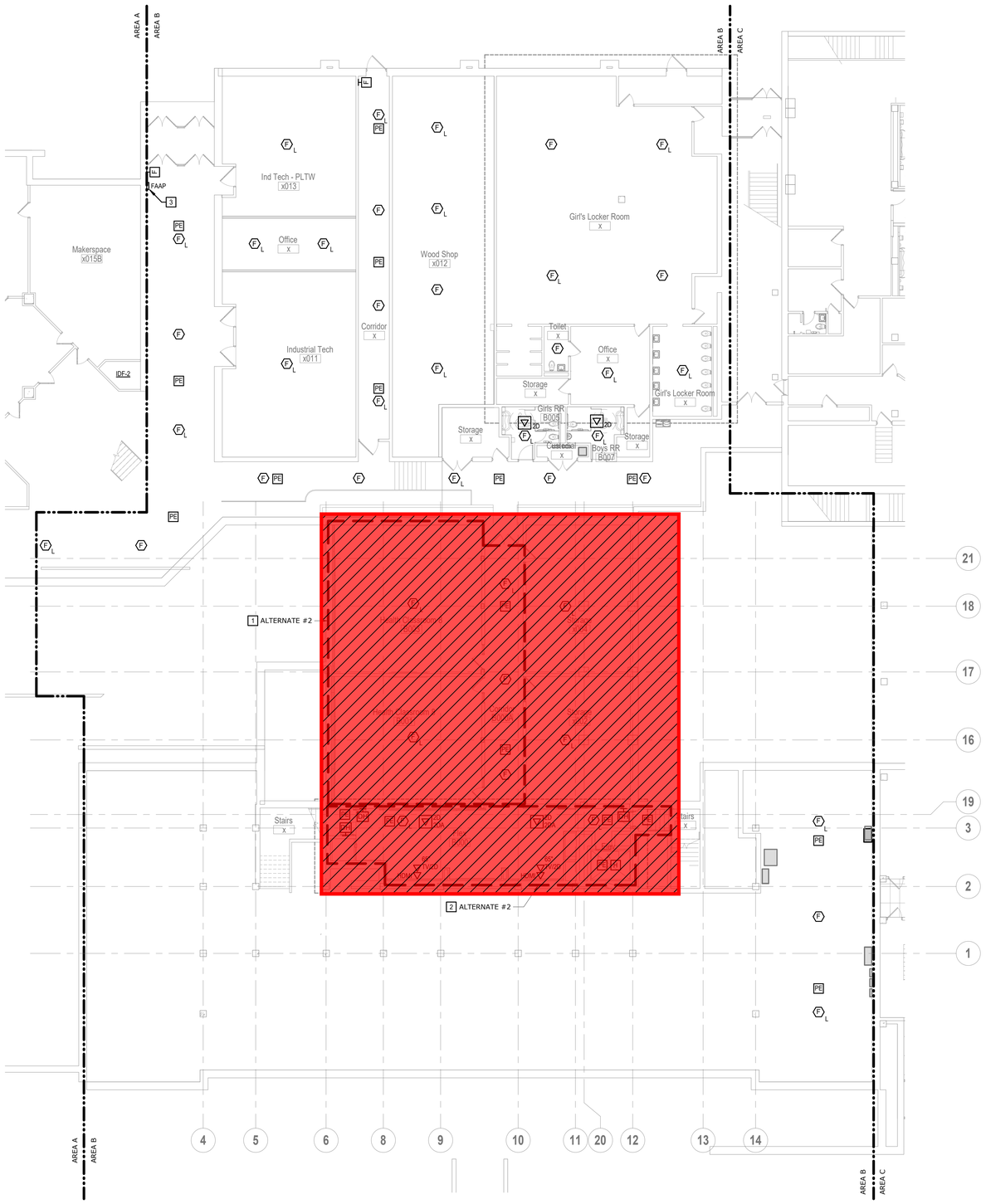
DATE: 12.07.2023

LV100A

A1 Scale 3/32" = 1'-0"

LOW VOLTAGE PLAN - LEVEL 0 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL FIRE ALARM GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL FIRE ALARM GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LOW VOLTAGE GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL LOW VOLTAGE GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1 ALTERNATE BID SHALL INCLUDE REMOVAL AND REINSTALLATION OF ALL LOW VOLTAGE DEVICES TO ACCOMMODATE NEW FINISHES AND NEW CEILINGS. FIELD DETERMINE EXACT REQUIREMENTS, INCLUDING LOCATION, TYPE AND QUANTITIES. COORDINATE WITH DISTRICT REPRESENTATIVE. NOTE: FIRE ALARM IS BASE BID.

2 ALTERNATE BID SHALL INCLUDE ALL LOW VOLTAGE DEVICES INDICATED WITHIN THIS AREA. NOTE: FIRE ALARM IS BASE BID.

3 REMOTE FIRE ALARM ANNUNCIATOR PANEL..

= Phase 2 Scope of Work
(Not included in this Bid Package)

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100% CONSTRUCTION DOCUMENTS

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Liberty Public Schools
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Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006171
ENGINEER
12/7/23

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DATE: 12.07.2023

LV100B

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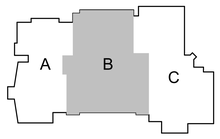
project number 2314708

KEY PLAN



A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 0 - AREA B

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 0 - AREA B

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

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TYPICAL FIRE ALARM GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL FIRE ALARM GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LOW VOLTAGE GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL LOW VOLTAGE GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. UTILIZE/MAINTAIN EXISTING DATA CABLE(S) FOR SERVING EXISTING CAMERA. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
2. UTILIZE/MAINTAIN EXISTING DATA CABLE(S) FOR SERVING EXISTING TIME CLOCK. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
3. TERMINATE ALL LOW VOLTAGE COMMUNICATIONS AND ACCESS CONTROLS CABLING SERVING THE SCRAMBLE, CAFETERIA, AND ADJACENT RESTROOMS AND CORRIDORS TO EXISTING RACK(S) IN IDF-5. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
4. DATA JACKS SERVING SCRAMBLE P.O.S. VIA POWER POLES, PER ELECTRICAL PLANS.
5. COORDINATE LOCATION OF DEVICE FOR WALL MOUNT TV WITH ARCHITECTURAL PLANS. PROVIDE SURFACE RACEWAY FROM BACK BOX TO ABOVE CEILING TO AN ACCESSIBLE LOCATION. PAINT RACEWAY TO MATCH WALL.
6. PROVIDE INTEGRATION OF EXISTING KITCHEN HOOD(S) WITH FIRE ALARM SYSTEM. FIELD DETERMINE EXACT REQUIREMENTS.
7. SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED.
8. PROVIDE TWO 1-1/2" CONDUIT SLEEVES BETWEEN AV CLOSET AND ACCESSIBLE CEILING.
9. PROVIDE 2-GANG BACK BOX WITH BLANK PLATE AT 18" AFF, WITH TWO 1" CONDUITS UP IN WALL AND STUBBED INTO AV CLOSET.

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REVISIONS:

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RYAN JEROD DIEDIKER — NUMBER 2015040814 — STATE OF MISSOURI — PROFESSIONAL ENGINEER — 12/7/23

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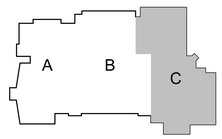
KEY PLAN



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DATE: 12.07.2023

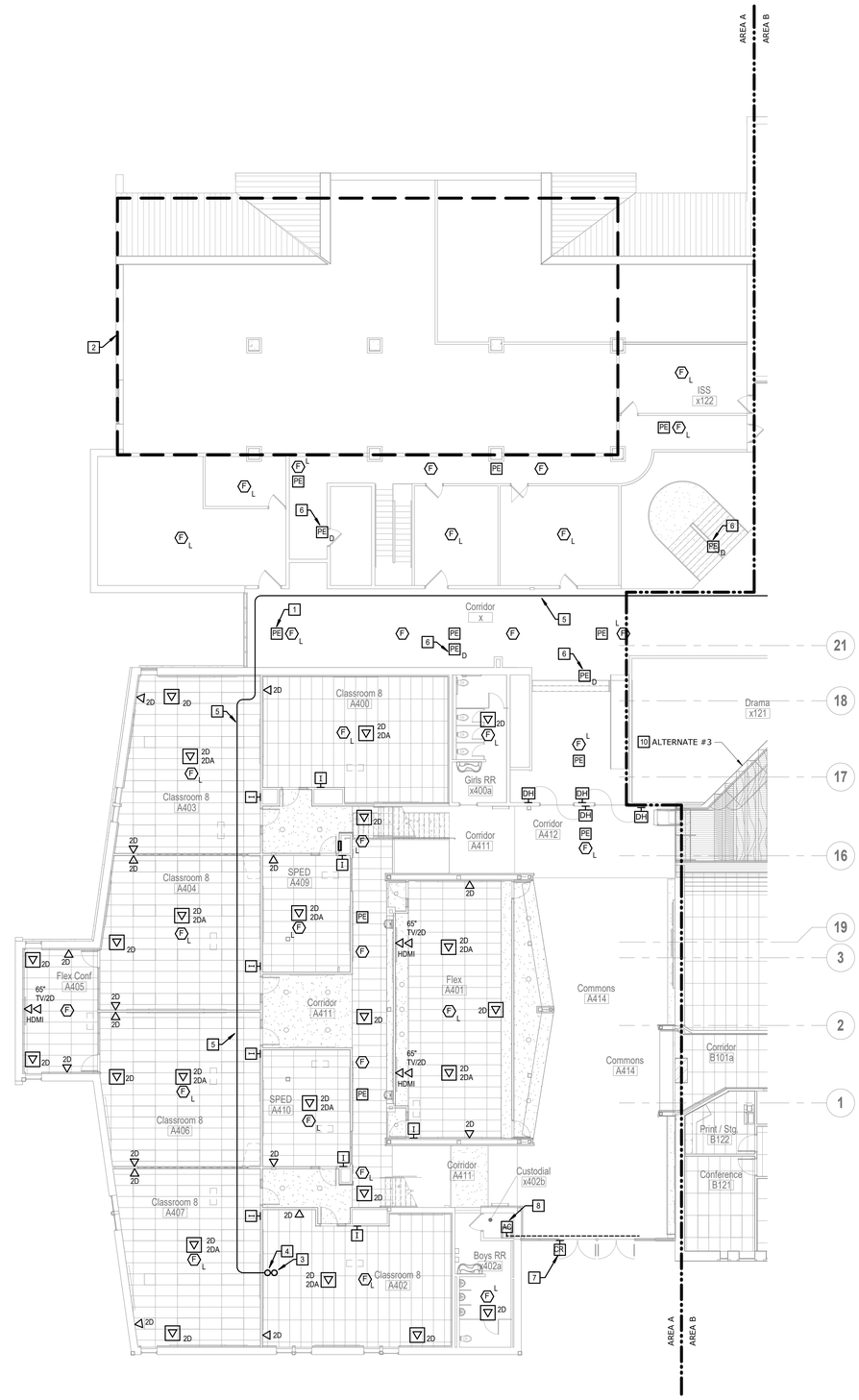
LV100C

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 0 - AREA C

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 0 - AREA C

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

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TYPICAL FIRE ALARM GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL FIRE ALARM GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

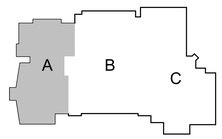
TYPICAL LOW VOLTAGE GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL LOW VOLTAGE GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED.
2. FIRE ALARM CONTRACTOR SHALL PROVIDE CODE REQUIRED FIRE ALARM SYSTEM LAYOUT FOR VAULTED MEDIA CENTER AND MAKERSPACE AREAS. LAYOUT SHALL MINIMIZE IMPACT TOEXISTING CONSTRUCTION AND FINISHES. SUBMIT LAYOUT FOR COORDINATION. INTENT IS TO NOT DISTURB FINISHES AND MINIMIZE SURFACE RACEWAY. FIELD DETERMINE EXACT CONDITIONS.
3. PROVIDE THREE 3" CONDUIT SLEEVES BETWEEN LEVEL 1 AND LEVEL 2 FOR COMMUNICATION CABLES. REFER TO SHEET LV102A FOR CONTINUATION.
4. PROVIDE ONE 3" CONDUIT SLEEVE BETWEEN LEVEL 1 AND LEVEL 2 FOR BACKBONE CABLE BETWEEN IDF-1 AND MDF.
5. PROVIDE FIBER BACKBONE CABLE ABOVE ACCESSIBLE CEILINGS BETWEEN IDF-1 AND MDF. ROUTING SHOWN IS TO CONVEY PROPOSED PATH AND SCOPE INTENT. FILED DETERMINE EXACT CONDITIONS, AND REPORT TO A/E TEAM IF ANY DEVIATION FROM PROPOSED PATH IS REQUIRED.
6. DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF AIR HANDLING UNIT, LOCATE ONE IN SUPPLY AIR DUCT AND ONE IN THE RETURN AIR DUCT (WHEN APPLICABLE) CONNECTIONS. MAKE CONNECTIONS TO UNIT AS REQUIRED FOR INDIVIDUAL UNIT SHUTDOWN BY FIRE ALARM SYSTEM. PROVIDE ALL ASSOCIATED MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS. FIELD VERIFY EXACT LOCATION.
7. CARD READER , COORDINATE LOCATION AND ROUGH-IN REQUIREMENTS WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
8. INSTALL THE DOOR INFRASTRUCTURE JUNCTION BOX FOR THE DOUBLE SET OF VESTIBULE DOORS AT THIS LOCATION. REFER TO DOOR INFRASTRUCTURE DETAIL FOR RACEWAYS BETWEEN BOX, DOOR FRAME, AND ASSOCIATED CARD READER, ETC. COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH DISTRICT COMMUNICATIONS REPRESENTATIVE AND STOREFRONT PROVIDER.

KEY PLAN



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Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015046814
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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DATE: 12.07.2023

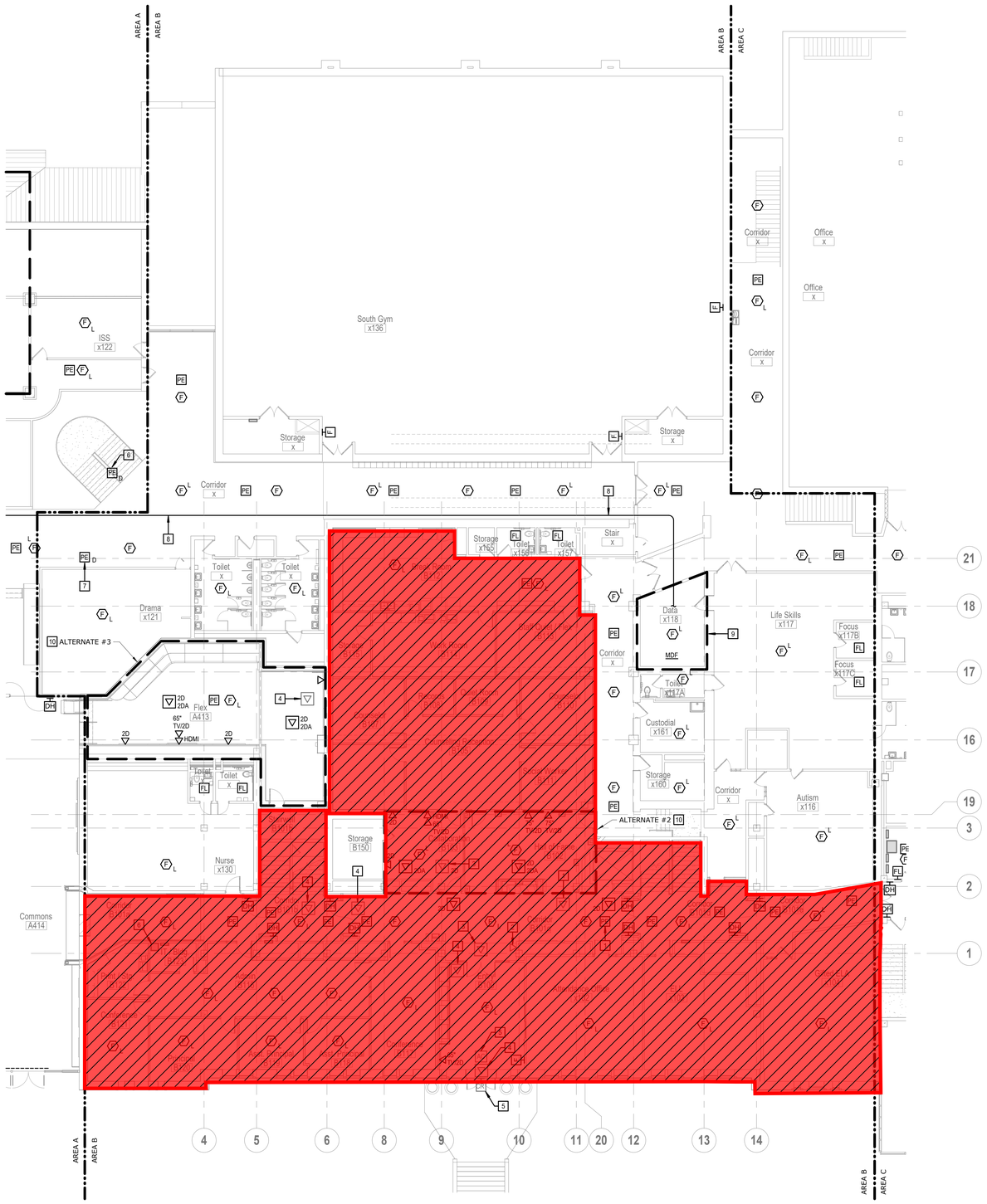
LV101A

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 1 - AREA A

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 1 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL FIRE ALARM GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL FIRE ALARM GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LOW VOLTAGE GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL LOW VOLTAGE GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED.
2. UTILIZE/MAINTAIN EXISTING DATA CABLE(S) FOR SERVING EXISTING TIME CLOCK. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
3. UTILIZE/MAINTAIN EXISTING DATA CABLE(S) ABOVE CEILING FOR DISTRICT USE. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
4. UTILIZE/MAINTAIN EXISTING DATA CABLE(S) FOR SERVING EXISTING TIME CLOCK. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
5. DOOR ACCESS CONTROLS PER ARCHITECTURAL DOOR HARDWARE SPEC. UTILIZE EXISTING ACCESS CONTROLS CABLING AND HARDWARE FROM TO DEMOLISHED DOOR, AND PER THE DISTRICT COMMUNICATIONS REPRESENTATIVE DIRECTION. LOCATION AND ROUGH-IN REQUIREMENTS FOR THE NEW DOOR TO BE COORDINATED WITH ARCHITECT AND THE DISTRICT COMMUNICATIONS REPRESENTATIVE.
6. LOCATION OF EXISTING INTERCOM SYSTEM HEAD END. NEW INTERCOM DEVICE/WORK IN AREA A AND AREA B WILL UTILIZE NETWORK CABLE BACK TO IDF ROOMS FOR COMMUNICATION OVER THE NETWORK TO THE EXISTING INTERCOM SYSTEM HEAD END. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
7. DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF AIR HANDLING UNIT, LOCATE ONE IN SUPPLY AIR DUCT AND ONE IN THE RETURN AIR DUCT (WHEN APPLICABLE) CONNECTIONS. MAKE CONNECTIONS TO UNIT AS REQUIRED FOR INDIVIDUAL UNIT SHUTDOWN BY FIRE ALARM SYSTEM. PROVIDE ALL ASSOCIATED MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS. FIELD VERIFY EXACT LOCATION.
8. PROVIDE FIBER BACKBONE CABLE ABOVE ACCESSIBLE CEILINGS BETWEEN IDF-1 AND MDF. ROUTING SHOWN IS TO CONVEY PROPOSED PATH AND SCOPE INTENT. FILED DETERMINE EXACT CONDITIONS, AND REPORT TO A/E TEAM IF ANY DEVIATION FROM PROPOSED PATH IS REQUIRED.
9. TERMINATE FIBER BACKBONE CABLE SERVING IDF-1 TO FIBER TERMINATION THAT SERVED THE DEMOLISHED IDF-1. FIELD VERIFY LOCATION AND COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
10. ALTERNATE BID SHALL INCLUDE ALL LOW VOLTAGE DEVICES INDICATED WITHIN THIS AREA. NOTE: FIRE ALARM IS BASE BID.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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REVISIONS:

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015008711
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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project number 2314708

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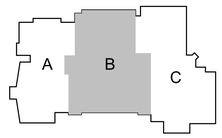
KEY PLAN



LV101B

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 1 - AREA B

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 1 - AREA B

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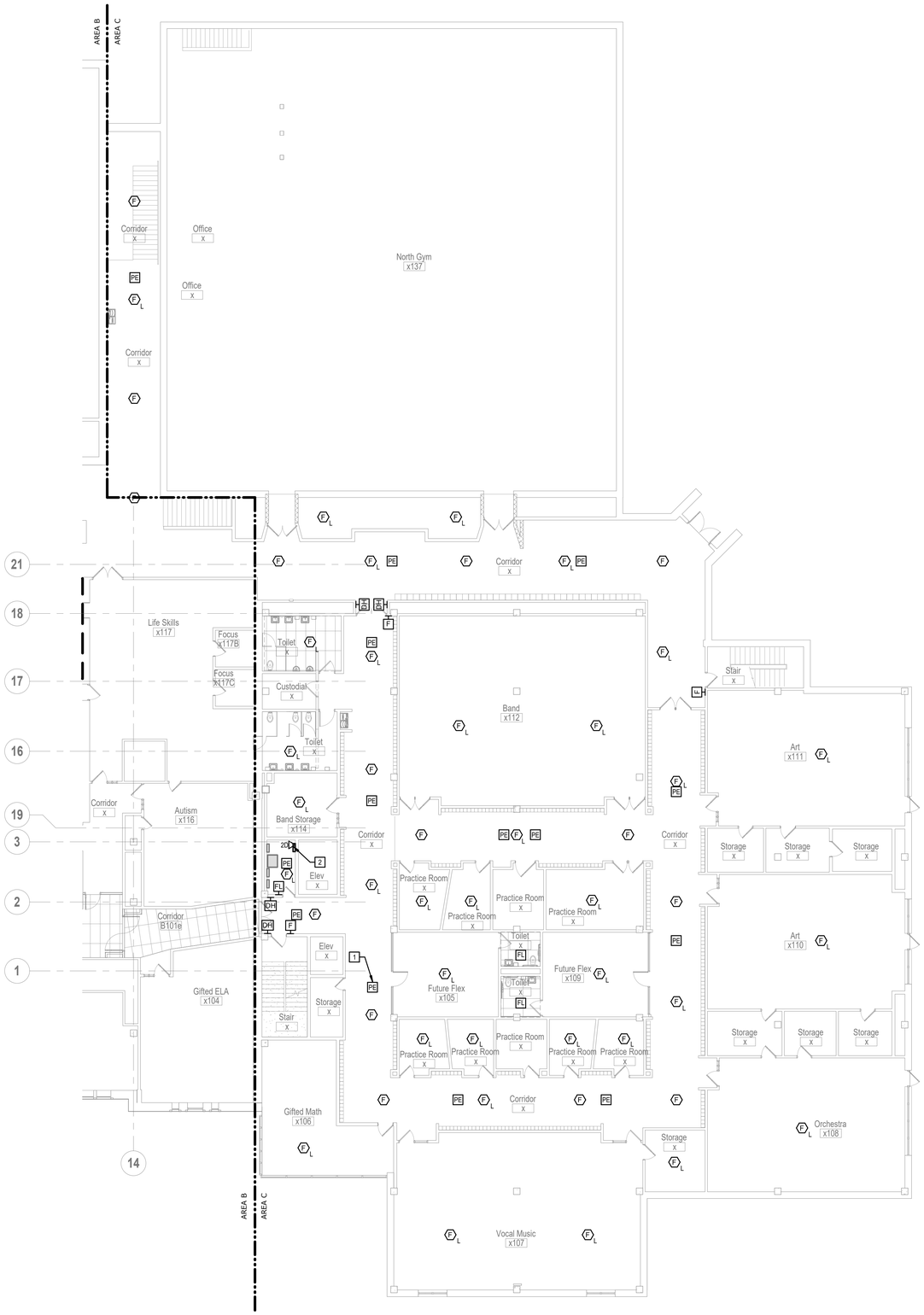

SHEET KEYNOTE LEGEND

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TYPICAL LOW VOLTAGE GENERAL NOTES:

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PLAN NOTES:

1 SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED.

2 PROVIDE DATA CONNECITONS FOR *VOICE* EVACUATION FIRE ALARM PANEL. COORDINATE WITH FIRE ALARM CONTRACTOR.

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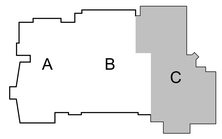
KEY PLAN



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LV101C

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 1 - AREA C

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 1 - AREA C

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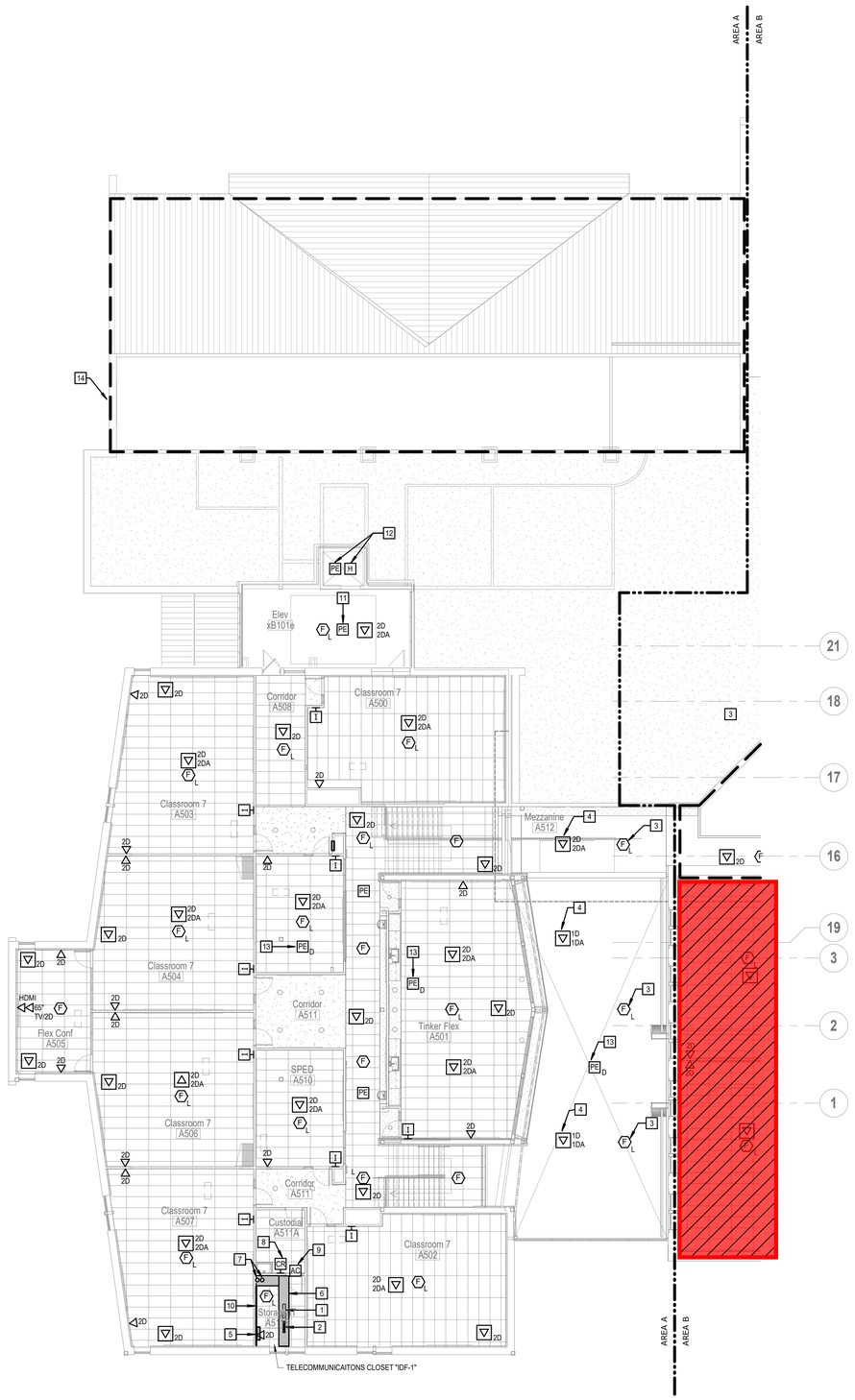

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TYPICAL LOW VOLTAGE GENERAL NOTES:

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PLAN NOTES:

1. ALLOW SPACE FOR AN ADDITIONAL,FUTURE IT RACK.
2. RELOCATED IT RACK FROM DEMOLISHED LEVEL 1 - AREA A IDF, INSTALLED BY CONTRACTOR.
3. FIRE ALARM DEVICE SHALL BE INSTALLED AT ELEVATION OF THE BOTTOM OF THE JOISTS. CABLING SHALL BE ROUTED IN CONDUIT TO NEAREST ACCESSIBLE CEILING OF LEVEL 2.
4. COORDINATE LOCATION OF DATA DEVICE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE. DEVICE SHALL BE INSTALLED WITHIN JOIST SPACING, ABOVE BOTTOM CORD. PROVIDE CABLING IN CONDUIT TO NEAREST ABOVE ACCESSIBLE CEILING OF LEVEL 2.
5. DOOR ACCESS CONTROL CABINET, FURNISHED BY DISTRICT, INSTALLED BY CONTRACTOR. PROVIDE DATA DROPS AS INDICATED.
6. LADDER RACK INSTALLED ABOVE IT RACK(S).
7. PROVIDE THREE 3" CONDUIT SLEEVES BETWEEN LEVEL 1 AND LEVEL 2 FOR COMMUNICATION CABLES. PROVIDE ONE 3" CONDUIT SLEEVE BETWEEN LEVEL 1 AND LEVEL 2 FOR BACKBONE CABLE BETWEEN IDF-1 AND MDF.
8. CARD READER, COORDINATE LOCATION AND ROUGH-IN REQUIREMENTS WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
9. JUNCTION BOX FOR ACCESS CONTROLLED DOOR. REFER TO DOOR INFRASTRUCTURE DETAIL FOR RACEWAYS BETWEEN BOX,DOOR FRAME, AND ASSOCIATED CARD READER ETC.COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.
10. TELECOMMUNICATIONS BOARD, REFER TO POWER PLANS.
11. SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED.
12. SMOKE AND HEAT DETECTOR LOCATED AT THE TOP OF THE ELEVATOR SHAFT. PROVIDE ADDITIONAL HEAT DETECTORS WITHIN 24" OF EACH ELEVATOR SHAFT SPRINKLER HEAD AS REQUIRED.
13. DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF AIR HANDLING UNIT, LOCATE ONE IN SUPPLY AIR DUCT AND ONE IN THE RETURN AIR DUCT (WHEN APPLICABLE) CONNECTIONS. MAKE CONNECTIONS TO UNIT AS REQUIRED FOR INDIVIDUAL UNIT SHUTDOWN BY FIRE ALARM SYSTEM. PROVIDE ALL ASSOCIATED MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS. FIELD VERIFY EXACT LOCATION.
14. FIRE ALARM CONTRACTOR SHALL PROVIDE CODE REQUIRED FIRE ALARM SYSTEM LAYOUT FOR VAULTED MEDIA CENTER AREA. LAYOUT SHALL MINIMIZE IMPACT TO EXISTING CONSTRUCTION AND FINISHES. SUBMIT LAYOUT FOR COORDINATION. INTENT IS TO NOT DISTURB FINISHES AND MINIMIZE SURFACE RACEWAY. FIELD DETERMINE EXACT CONDITIONS.

= Phase 2 Scope of Work
(Not included in this Bid Package)

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Structure # 2006031333

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Food Facility Planner
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Overland Park, Johnson County, KS 66204
785.266.5696 phone

100% CONSTRUCTION DOCUMENTS

Heritage Middle School Renovations
Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015040671
ENGINEER
PROFESSIONAL
12/7/23

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project number 2314708

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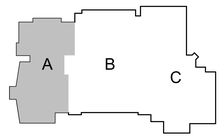
KEY PLAN



JOB NO: 23024
DRAWN BY: Author
CHECKED BY: Checker
DATE: 12.07.2023

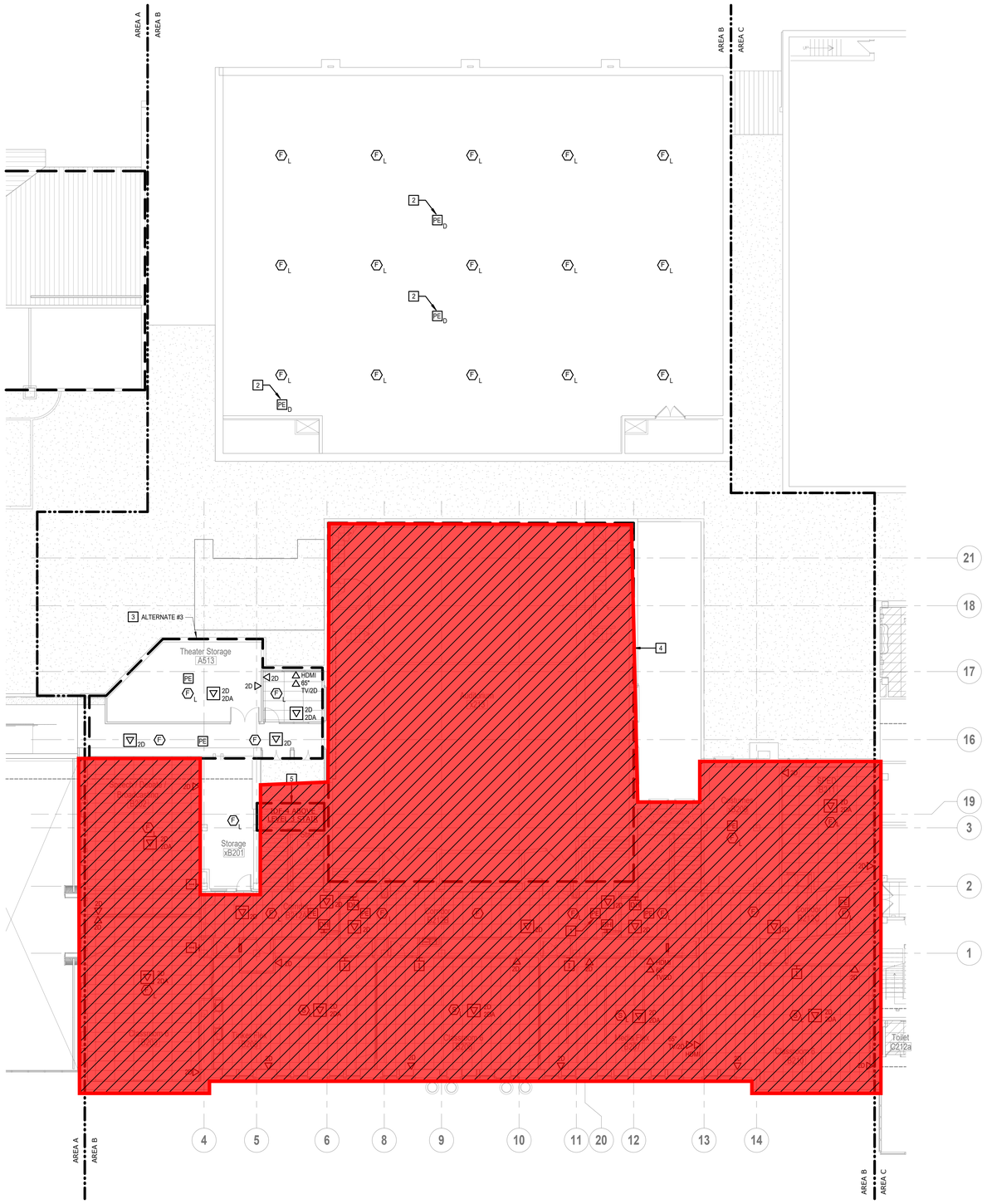
LV102A

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 2 - AREA A

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 2 - AREA A

Please consider the environment before printing this.



SHEET KEYNOTE LEGEND

TYPICAL ELECTRICAL RACEWAY GENERAL NOTES:

1. REFER TO SHEET E200A FOR TYPICAL ELECTRICAL RACEWAY GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL FIRE ALARM GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL FIRE ALARM GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

TYPICAL LOW VOLTAGE GENERAL NOTES:

1. REFER TO SHEET LV100A FOR TYPICAL LOW VOLTAGE GENERAL NOTES APPLICABLE TO THE ENTIRE PROJECT.

PLAN NOTES:

1. SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED.
2. DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF AIR HANDLING UNIT, LOCATE ONE IN SUPPLY AIR DUCT AND ONE IN THE RETURN AIR DUCT (WHEN APPLICABLE) CONNECTIONS. MAKE CONNECTIONS TO UNIT AS REQUIRED FOR INDIVIDUAL UNIT SHUTDOWN BY FIRE ALARM SYSTEM. PROVIDE ALL ASSOCIATED MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS. FIELD VERIFY EXACT LOCATION.
3. ALTERNATE BID SHALL INCLUDE ALL LOW VOLTAGE DEVICES INDICATED WITHIN THIS AREA. NOTE: FIRE ALARM IS BASE BID AS REQUIRED TO MEET EXISTING SPACE.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE CODE REQUIRED FIRE ALARM SYSTEM LAYOUT FOR THEATER AND THEATER SUPPORT/STAGE AREAS. LAYOUT SHALL MINIMIZE IMPACT TO EXISTING CONSTRUCTION AND FINISHES. SUBMIT LAYOUT FOR COORDINATION. INTENT IS TO NOT DISTURB FINISHES AND MINIMIZE SURFACE RACEWAY. FIELD DETERMINE EXACT CONDITIONS.
5. TERMINATE ALL LOW VOLTAGE COMMUNICATIONS AND ACCESS CONTROLS CABLING SERVING THE LEVEL 2 RENOVATIONS TO EXISTING RACK(S) IN IDF-4 LOCATED ABOVE LEVEL 3 STAIRS, REFER TO SHEET LV103B. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE.

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100% CONSTRUCTION DOCUMENTS

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REVISIONS:

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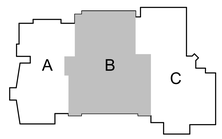
KEY PLAN



JOB NO: 23024
DRAWN BY: Author
CHECKED BY: Checker
DATE: 12.07.2023

LV102B

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 2 - AREA B

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 2 - AREA B

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phone 913.345.2127 fax 913.345.0617
project number 2314708

STATE OF MISSOURI
RYAN JEROD DIEDKER
NUMBER PE-2015008171
REGISTERED PROFESSIONAL ENGINEER
12/7/23

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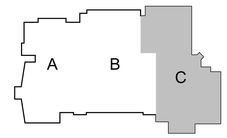
KEY PLAN



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CHECKED BY: Checker
DATE: 12.07.2023

LV102C

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 2 - AREA C

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 2 - AREA C

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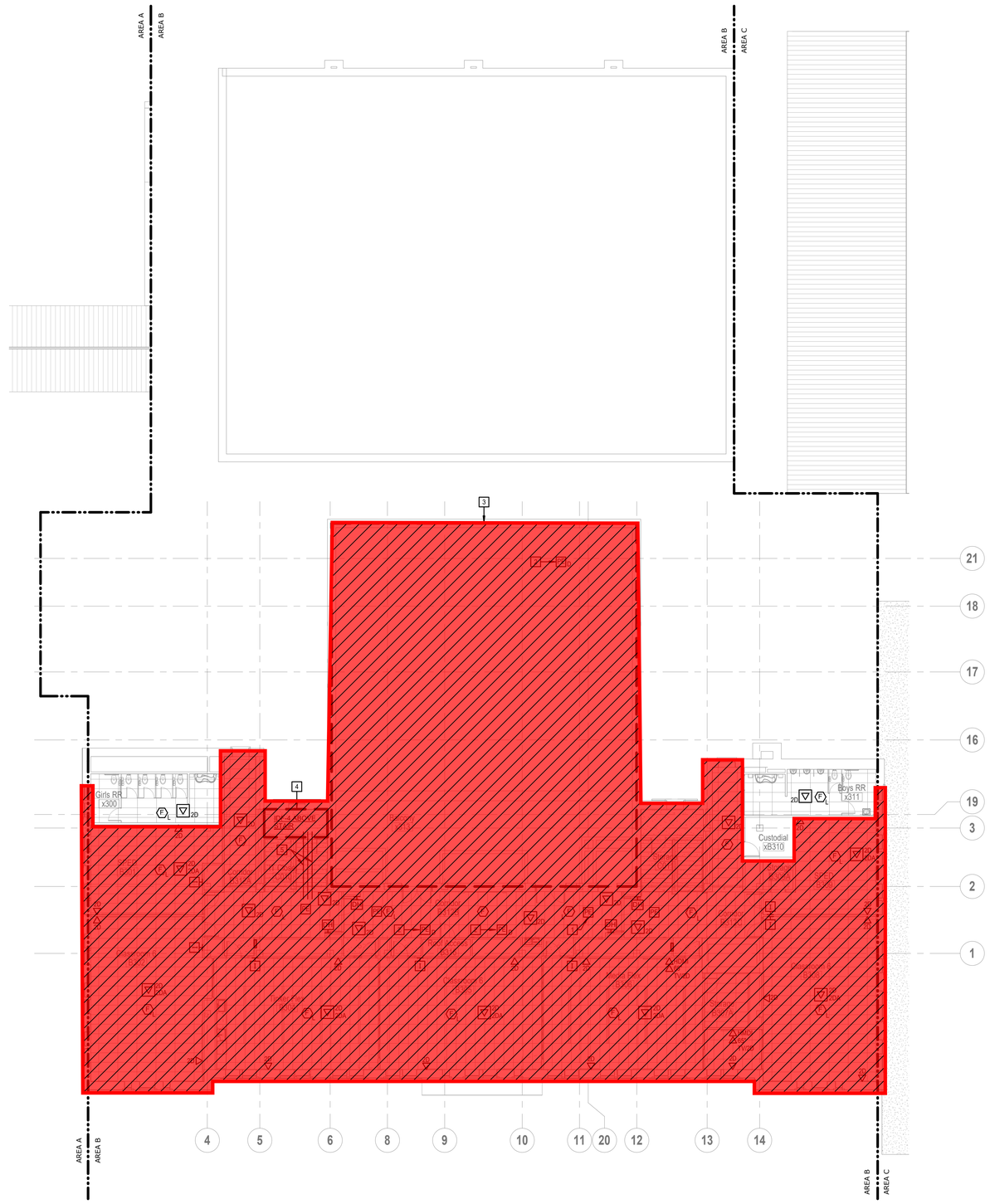

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5. FIELD VERIFY LOCATION OF EXISTING CONDUIT SLEEVES FROM IDF-4 TO ACCESSIBLE CEILING FOR USE OF ALL COMMUNICATIONS CABLING. SHORTEN SLEEVES AS REQUIRED SO THAT THEY TERMINATED IN ABOVE CEILING OF CORRIDOR. COORDINATE WITH DISTRICT COMMUNICATIONS REPRESENTATIVE EXACT LOCATION.

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015006171
ENGINEER
12/7/23

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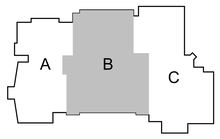
KEY PLAN



LV103B

A1 | Scale 3/32" = 1'-0" | LOW VOLTAGE PLAN - LEVEL 3 - AREA B

PROJECT NORTH TRUE NORTH

LOW VOLTAGE PLAN - LEVEL 3 - AREA B

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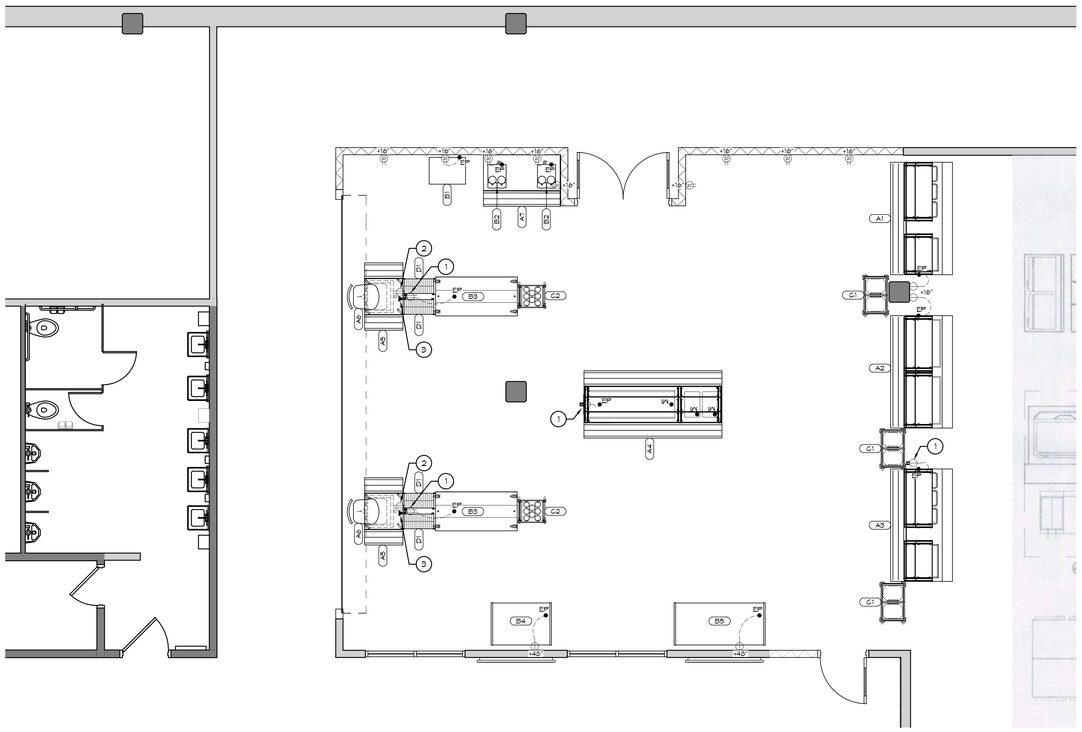


J1 | Scale 1/4" = 1'-0" | Servery Equipment Connection Plan

4' 2' 0' 4'

PROJECT NORTH

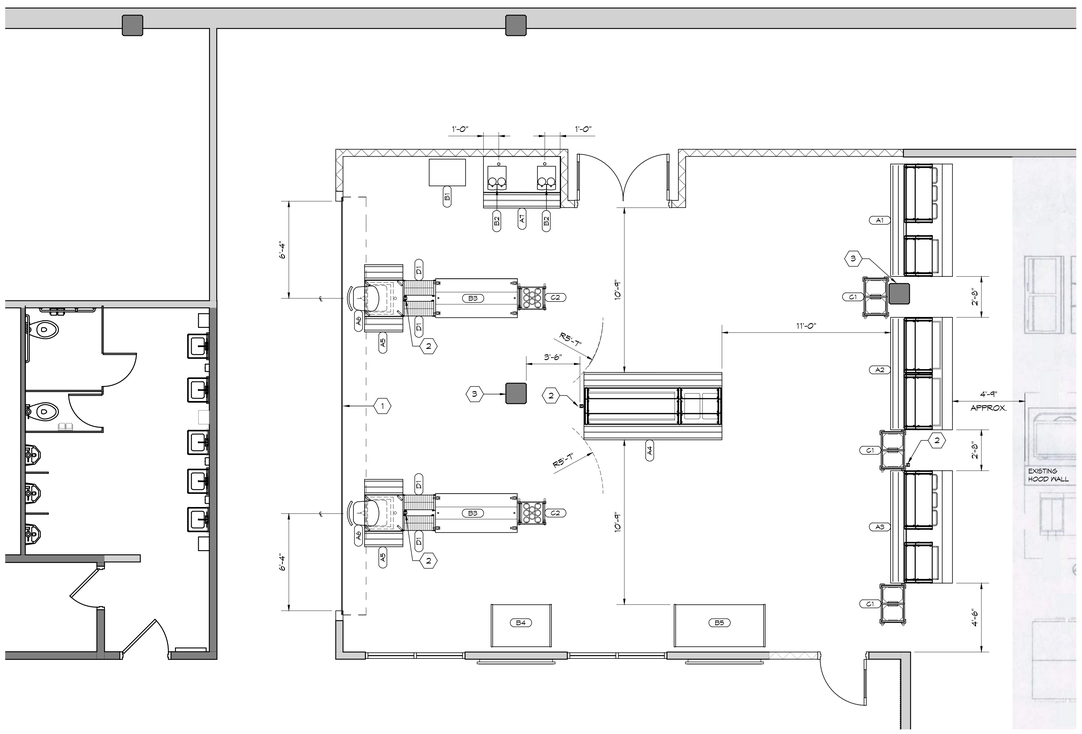
ELECTRICAL, WATER / WASTE EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

			ELECTRICAL (EC, EP)								PLUMBING (C, H, D, IW)									
											COLD WATER (C)		HOT WATER (H)			DIRECT DRAIN (D)		INDIRECT DRAIN (IW)		
ITEM	QTY	DESCRIPTION	Amps	KW	HP	Volts	PH	EC	EP	NEMA	ELECTRICAL REMARKS	SIZE (IN)	AFF (IN)	SIZE (IN)	GPH	AFF (IN)	SIZE (IN)	AFF (IN)	SIZE (IN)	AFF (IN)	PLUMBING REMARKS	ITEM
A1	1	SERVING UNIT; 3 WELL HOT, 2 PAN COLD	19.3	0.72/3.6	-	120/208	1	-	X	14-30P	(WELLS, FOOD GUARD HEAT STRIP & LED LIGHT) WALL ER REQ'D (BY EC)	-	-	-	-	-	-	-	3/4EA	-	W/ DRAIN EXTENSION (BY MANUFACTURER) - OWNER WILL DRAIN WELLS TO BUCKET	A1
A2	1	SERVING UNIT W/ (2) HATCO GRSBF-36-S	25.4	3	-	120	1	-	X	5-50P	(HEATED SHELVES & FOOD GUARD HEAT STRIPS) WALL ER REQ'D (BY EC)	-	-	-	-	-	-	-	-	-	-	A2
A3	1	SERVING UNIT; 3 WELL HOT, 2 PAN COLD	19.3	0.72/3.6	-	120/208	1	-	X	14-30P	(WELLS, FOOD GUARD HEAT STRIP & LED LIGHT) ER IN POWER POLE REQ'D (BY EC)	-	-	-	-	-	-	-	3/4EA	-	W/ DRAIN EXTENSION (BY MANUFACTURER) - OWNER WILL DRAIN WELLS TO BUCKET	A3
A4	1	SERVING UNIT; 2 WELL HOT, 5 PAN COLD	16	0.756/2.4	1/3	120/208	1	-	X	14-30P	(WELLS & GUARD LED LIGHT) ER IN POWER POLE REQ'D (BY EC)	-	-	-	-	-	-	-	3/4EA	-	OWNER WILL DRAIN WELLS INTO BUCKET	A4
A5	2	CASHIER STAND	20	-	-	120	1	-	X	-	DEDICATED ER IN POWER POLE FOR COMPUTER REQ'D (BY EC)	-	-	-	-	-	-	-	-	-	-	A5
			DATA	-	-	-	-	-	-	-	RECEPTACLE IN POWER POLE REQ'D (BY EC)	-	-	-	-	-	-	-	-	-	-	-
B1	1	CHEST FREEZER	1.4	-	-	115	1	-	X	5-20P	WALL ER REQ'D (BY EC)	-	-	-	-	-	-	-	-	-	-	B1
B2	2	FROZEN BEVERAGE MACHINE	10	0.7	1/3	120	1	-	X	5-20P	WALL ER REQ'D (BY EC)	-	-	-	-	-	-	-	-	-	-	B2
B3	2	MILK COOLER; DOUBLE DROP FRONT	10	-	1/3	120	1	-	X	5-15P	ER IN POWER POLE REQ'D (BY EC)	-	-	-	-	-	-	-	1/2	-	-	B3
B4	1	REFRIGERATED SELF-SERVICE CASE	10.2	1.9	-	208-240	1	-	X	6-20P	WALL ER REQ'D (BY EC)	-	-	-	-	-	-	-	-	-	-	B4
B5	1	REFRIGERATED SELF-SERVICE CASE	16	3.2	-	208-240	1	-	X	6-20P	WALL ER REQ'D (BY EC)	-	-	-	-	-	-	-	-	-	-	B5

CONNECTION PLAN ELECTRICAL NOTES

1. ER ON POWER POLE (BY EC)
2. COMPUTER DEDICATED ER ON POWER POLE @ +18" AFF (BY EC)
3. COMPUTER DATA OUTLET ON POWER POLE @ +18" AFF (BY EC)



A1 | Scale 1/4" = 1'-0" | Servery Equipment Plan

4' 2' 0' 4'

PROJECT NORTH

EQUIPMENT LIST

ITEM NO	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	ITEM NO
A1	1	SERVING UNIT; 3 WELL HOT, 2 PAN GOLD	PIPER PRODUCTS	3HF-2BGM	W/ BPG1C-46 & BPG1C-32 GUARDS	A1
A2	1	SERVING UNIT; W/ (2) BUILT-IN HEATED SHELVES	PIPER PRODUCTS	6ST MOD W/ (2) HATCO GRSBF-36-S	W/ (2) BPG1C-46 GUARDS	A2
A3	1	SERVING UNIT; 3 WELL HOT, 2 PAN GOLD	PIPER PRODUCTS	3HF-2BGM	W/ BPG1C-46 & BPG1C-32 GUARDS	A3
A4	1	SERVING UNIT; 2 WELL HOT, 5 PAN GOLD	PIPER PRODUCTS	2HF-5BGM	W/ PIPER BPG-LED DBL-SIDED GUARD	A4
A5	2	CASHIER STAND	PIPER PRODUCTS	2-CD	-	A5
A6	2	CHAIR	-	-	BY OWNER	A6
A7	1	SERVING UNIT; SOLID TOP	PIPER PRODUCTS	4-ST (900-2)	W/ TRAY SLIDE	A7
B1	1	CHEST FREEZER	GENERAL ELECTRIC	FCM9SHBWW	EXISTING TO BE RELOCATED	B1
B2	2	FROZEN BEVERAGE MACHINE	RONNOCO	0751204015E	EXISTING TO BE RELOCATED	B2
B3	2	MILK COOLER; DOUBLE DROP FRONT	MODUSERVE	MGT-DM3	EXISTING TO BE RELOCATED	B3
B4	1	REFRIGERATED SELF-SERVICE CASE	STRUCTURAL CONCEPTS	GO47R	EXISTING TO BE RELOCATED	B4
B5	1	REFRIGERATED SELF-SERVICE CASE	STRUCTURAL CONCEPTS	GO67R	EXISTING TO BE RELOCATED	B5
G1	3	DISPENSER; SELF-LEVELING TRAY	PIPER PRODUCTS	PT/1014MO2	-	G1
G2	2	CART; SILVER	CADDY CORPORATION	T-414	-	G2
D1	4	SHELVNG; MOBILE MERCHANDISING	-	-	PROVIDED BY VENDOR	D1

EQUIPMENT PLAN NOTES

1. OVERHEAD COILING DOOR BY OTHERS - RE: ARCHITECTURAL
2. POWER POLE BY OTHERS - RE: ELECTRICAL
3. EXISTING CONCRETE COLUMN

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Liberty Public Schools
600 W. Kansas Street
Liberty, MO 64068

REVISIONS:

#	Description	Date

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JOB NO: 23024
DRAWN BY: mlt
CHECKED BY: mlt
DATE: 12.07.2023

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