ALEXANDER DONIPHAN ES RENOVATION

Liberty Public Schools

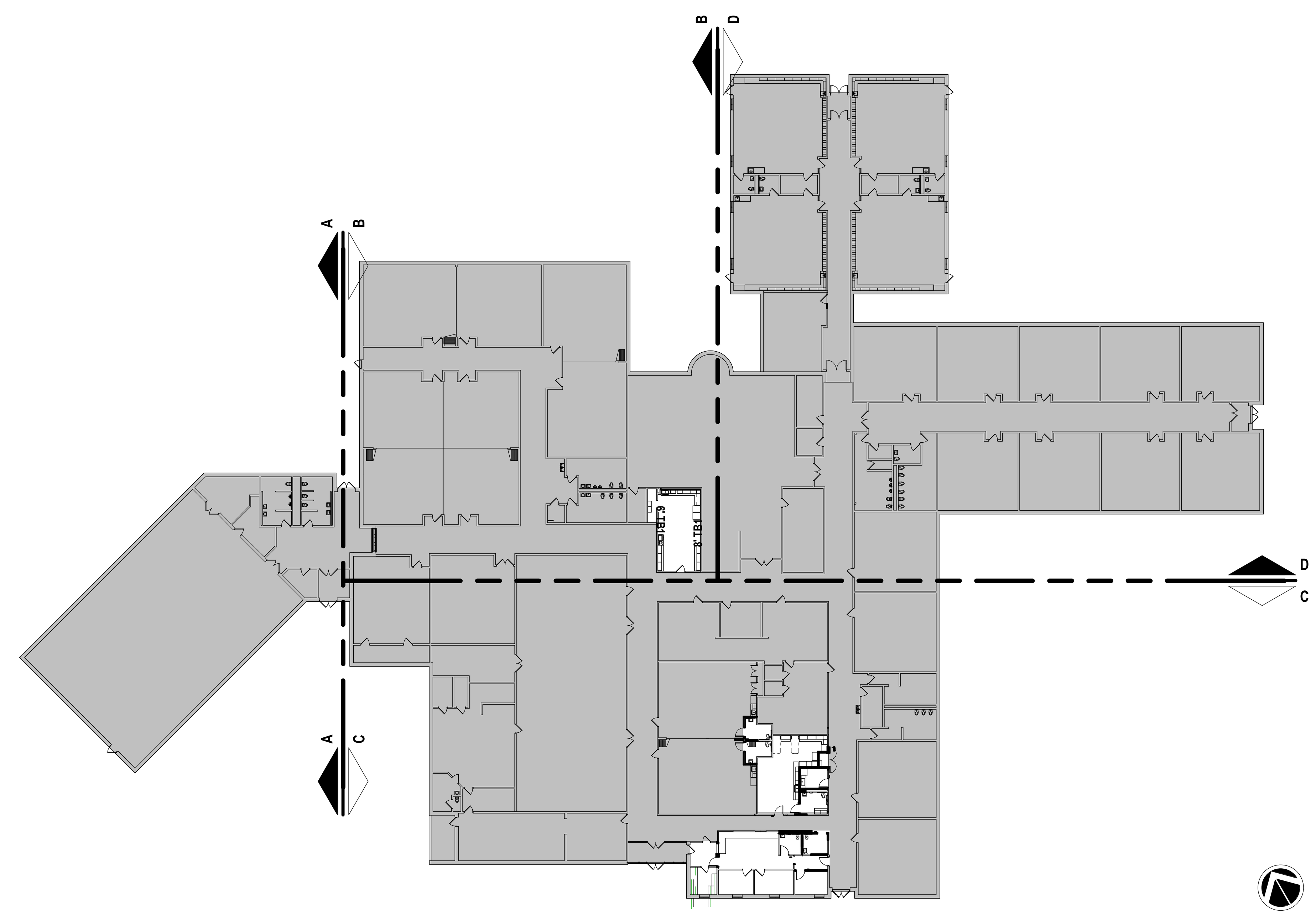
1900 Clay Drive
Liberty, MO 64068

100% CONSTRUCTION DOCUMENTS

ALTERNATES

No.	Accepted	Description
AD1	☐	BASE BID - NO WORK, ADD ALTERNATE - EXPANSION OF RESTROOMS C107 & C110
AD2	☐	BASE BID - NO WORK, ADD ALTERNATE EXPANSION OF SPED RESTROOMS C127a AND C128a
AD3	☐	BASE BID - DOOR 2C125 AS DOCUMENTED ON A001, ADD ALTERANTE AS NOTED ON A001 FRAME TYPE B

SCOPE OF WORK



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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

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

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

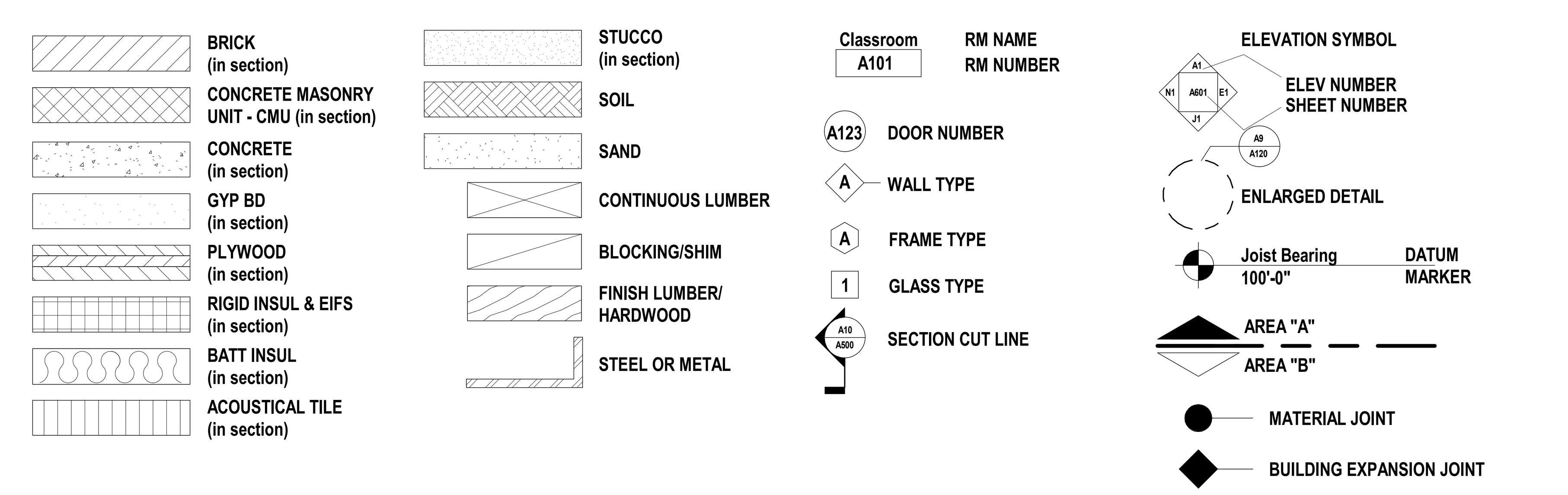
U
UNO unless noted otherwise

V
VERT vertical
VTR vent thru roof

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

Y
YD yard

SYMBOL LEGEND



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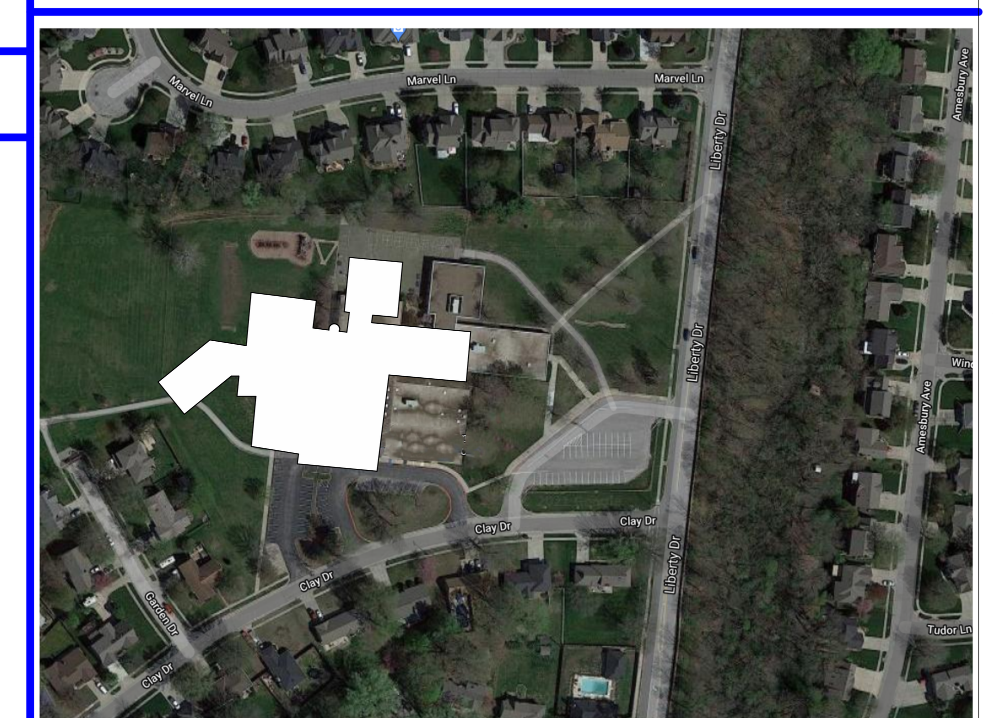
VICINITY MAP



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100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT
November 22, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23028
DRAWN BY: LB
CHECKED BY: JB
DATE: 11.22.2023

G000

COVER SHEET

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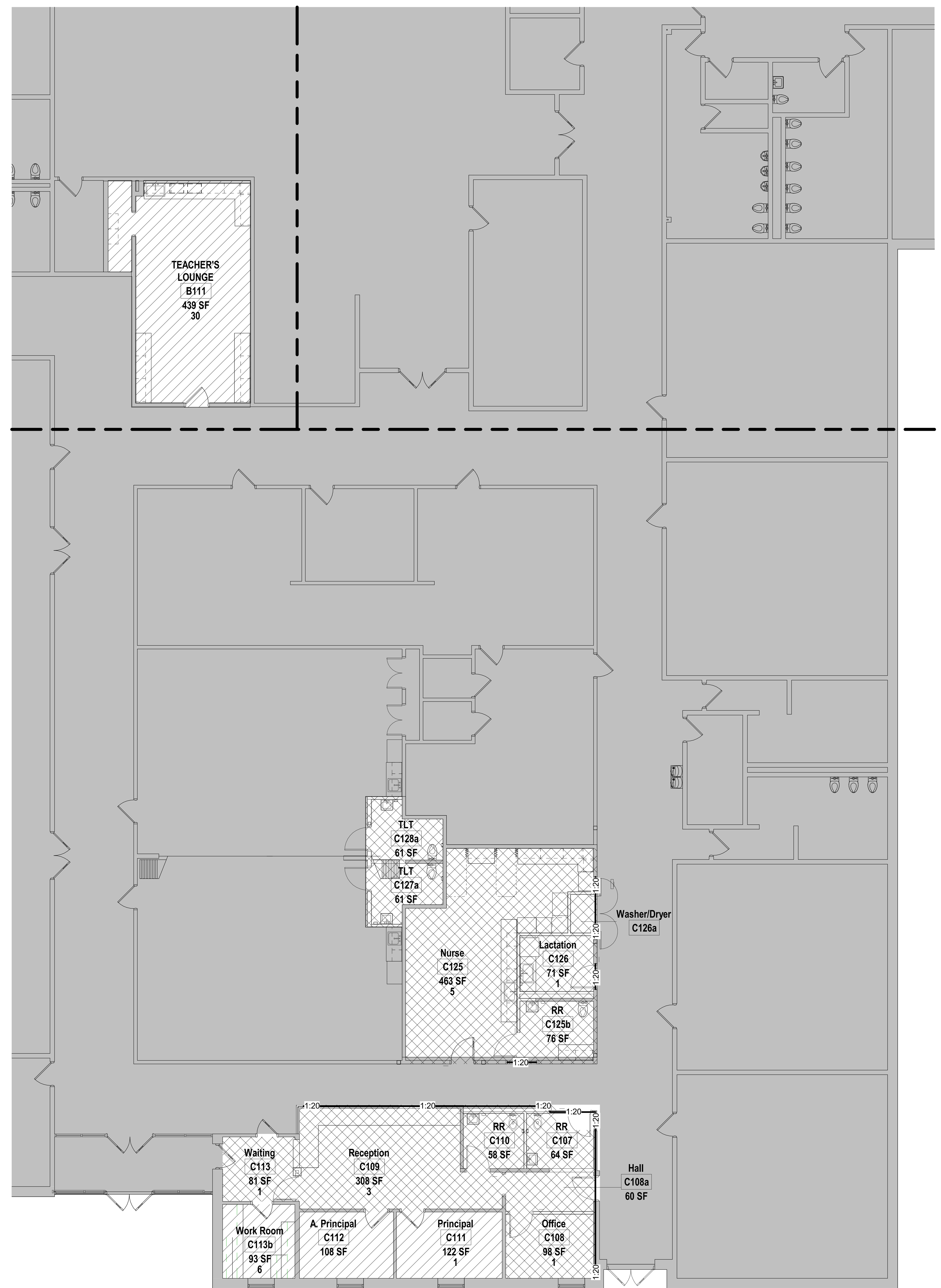
Work Area Occupant Load Table

Rm No	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
B111	TEACHER'S LOUNGE	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	439 SF	15 SF	30
C107	RR	(none)	64 SF		
C110	RR	(none)	58 SF		
C125	Nurse	Institutional - Outpatient Areas	463 SF	100 SF	5
C125b	RR	(none)	76 SF		5
C126	Lactation	Accessory Storage Areas, Mechanical Equipment Room	71 SF	300 SF	1
C126a	Washer/Dryer	(none)	15 SF		
C127a	TLT	(none)	61 SF		
C128a	TLT	(none)	61 SF		

Level 1
Work Area Occupant Load



A9 | Scale 1/8" = 1'-0" | Code Floor Plan

8' 4' 0' 8'

PROJECT INFORMATION

PROJECT NUMBER: 23028.00

PROJECT NAME: Alexander Doniphan Elementary Renovation

OWNER: Liberty Public School District, 8 Victory Lane, Liberty, MO 64066

AUTHORITY HAVING JURISDICTION: Liberty City Hall, Building Division, 101 E Kansas Street, 3rd Floor, Liberty, MO 64068, 816-439-4534

RESPONDING FIRE SERVICE: Liberty Fire Department, 200 W Mississippi Street, Liberty, MO 64068, 816-439-4310

ANTICIPATED OCCUPANCY: Occupant Load will not change

ADOPTED CODES AND ORDINANCES:
2018 International Building Code
2018 International Existing Building Code
2018 International Fire Code
2017 National Electric Code (NFPA 70)
2018 International Mechanical Code
2018 International Plumbing Code
2017 ICC A117.1 Accessible and Usable Buildings and Facilities

BUILDING INFORMATION

OCCUPANCY CLASSIFICATION: Educational, Group E (305.1)

CONSTRUCTION TYPE: II-B (602.2, Non-combustible, non-protected) Renovation of existing structure

FIRE SAFETY FEATURES

SPRINKLER: Non-Sprinklered

FIRE ALARM SIGNALING: Existing to remain.

EMERGENCY LIGHTING / POWER: Existing to remain.
SMOKE CONTROL SYSTEM: Existing to remain.

SCOPE OF WORK

ANTCIPATED OCCUPANCY: AUGUST 2024

PROJECT DESCRIPTION:
THE PROJECT SCOPE CONSIST OF THE FOLLOWING INTERIOR TENANT FINISH UPGRADES: RESTROOM RENOVATIONS, ADMIN AREA FINISH AND RECONFIGURATION, WORK ROOM CASEWORK AND FINISH UPGRADES AND NURSE OFFICE RENOVATION

RENOVATION SQUARE FOOTAGE

ALTERATION LEVEL 1: 489 SF
ALTERATION LEVEL 2: 844 SF

TOTAL ALTERATION: 1,333 SF

CODE LEGEND

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

1:45 — 1 HOUR FIRE BARRIER W/ 45 MIN. DOORS

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

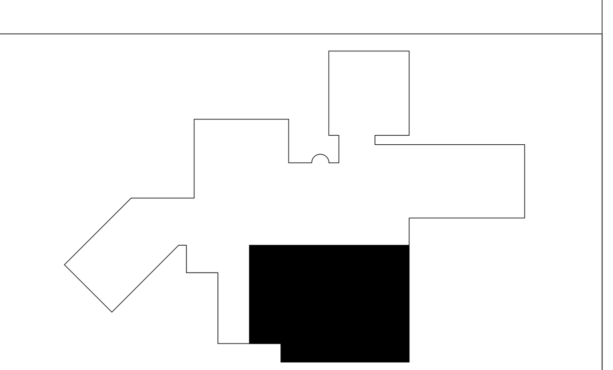
2:FW — 2 HOUR FIRE WALL W/ 90 MIN DOORS

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

NOTE: ALL EXISTING FIRE EXTINGUISHERS TO REMAIN UNO



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100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
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Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI — KEVIN E. NELSON — A-2019015618 — ARCHITECT
November 22, 2023
Kevin E. Nelson
A-2019015618

JOB NO: 23028
DRAWN BY: MB
CHECKED BY: JB
DATE: 11.22.2023

G101

CODE FLOOR PLAN

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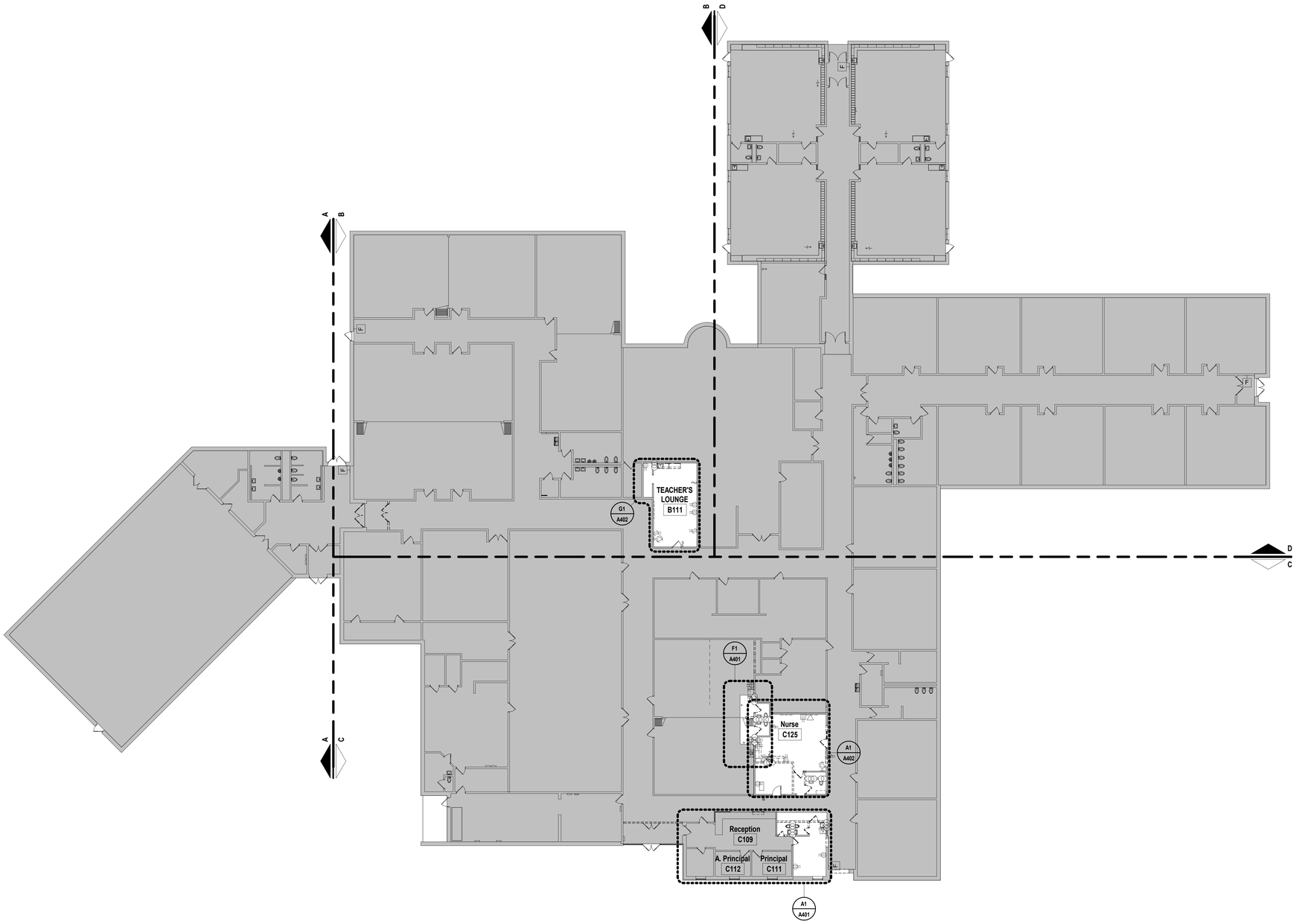


A1 | Scale 1/16" = 1'-0" | Demolition Floor Plan - Overall

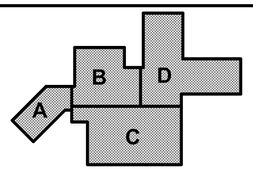
16' 8' 0' 16'

SHEET KEYNOTE LEGEND

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

KEY PLAN



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STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

November 22, 2023
Kevin E. Nelson
A-2019015618

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DA101

DEMOLITION FLOOR PLAN - OVERALL

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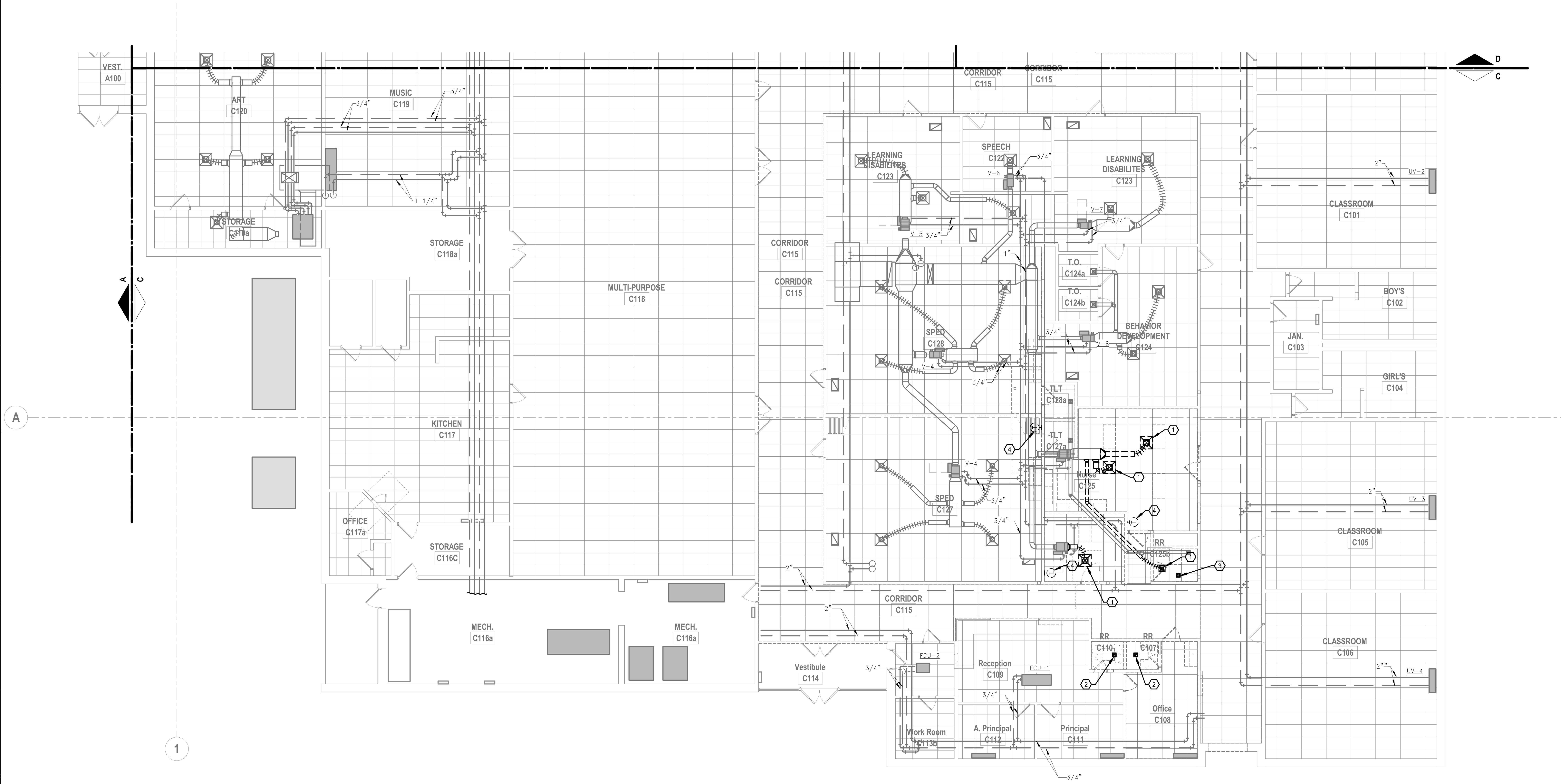

A1	Scale 1/8" = 1'-0"	DEMOLITION HVAC PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

SHEET KEYNOTE LEGEND

GENERAL DEMOLITION NOTES:

1. REFER TO SHEET DM101B FOR DEMOLITION GENERAL NOTES.

PLAN NOTES:

1. DISCONNECT AND REMOVE EXISTING SUPPLY DIFFUSER AND ASSOCIATED BRANCH DUCT.
2. DISCONNECT AND REMOVE EXISTING EXHAUST GRILLE AND ASSOCIATED BRANCH DUCT.
3. DISCONNECT AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCT.
4. DISCONNECT AND REMOVE EXISTING THERMOSTAT AND SALVAGE FOR INSTALLATION IN NEW LOCATION.

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REVISIONS:

#	Description	Date

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phone 913.345.2127 fax 913.345.0617
project number 2314713

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
11/22/23

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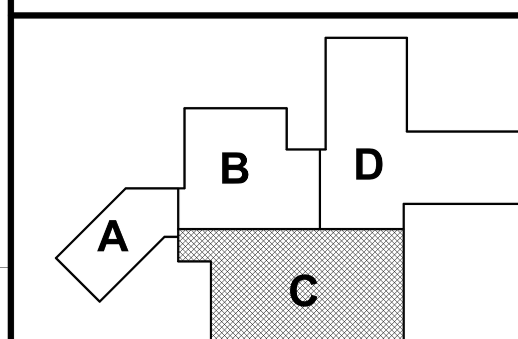
KEY PLAN



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DM101C

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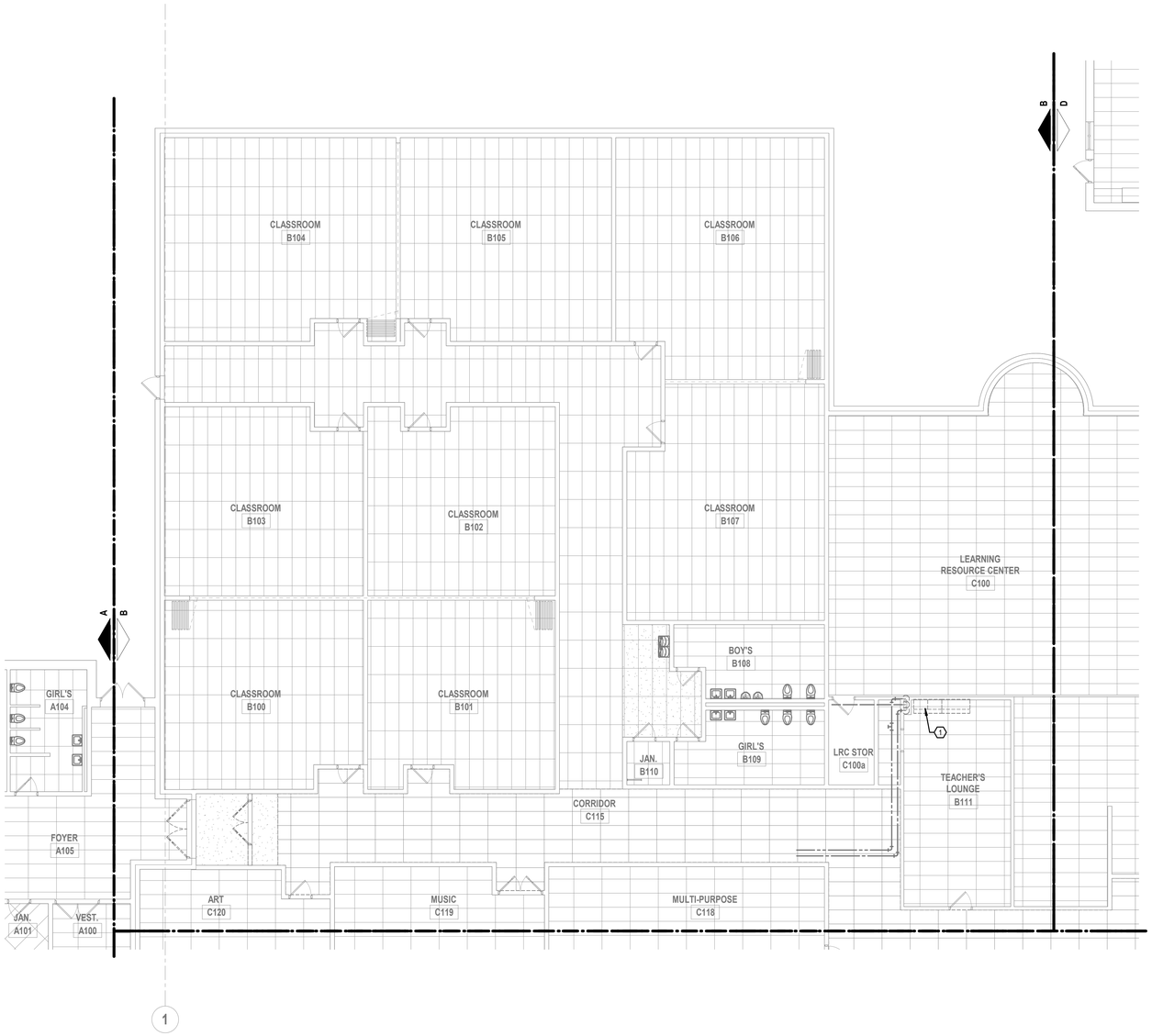

SHEET KEYNOTE LEGEND

PLAN NOTES:

1. DISCONNECT AND REMOVE EXISTING SINK. NEW SINK TO BE INSTALLED AND CONNECTED TO EXISTING PIPING.

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project number 2314713

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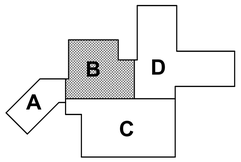
KEY PLAN



JOB NO:	23028
DRAWN BY:	SBI
CHECKED BY:	RJD
DATE:	11.22.2023

DP101B

A1 | Scale 1/8" = 1'-0" | DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA B

8' 4' 0' 8'

DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA B

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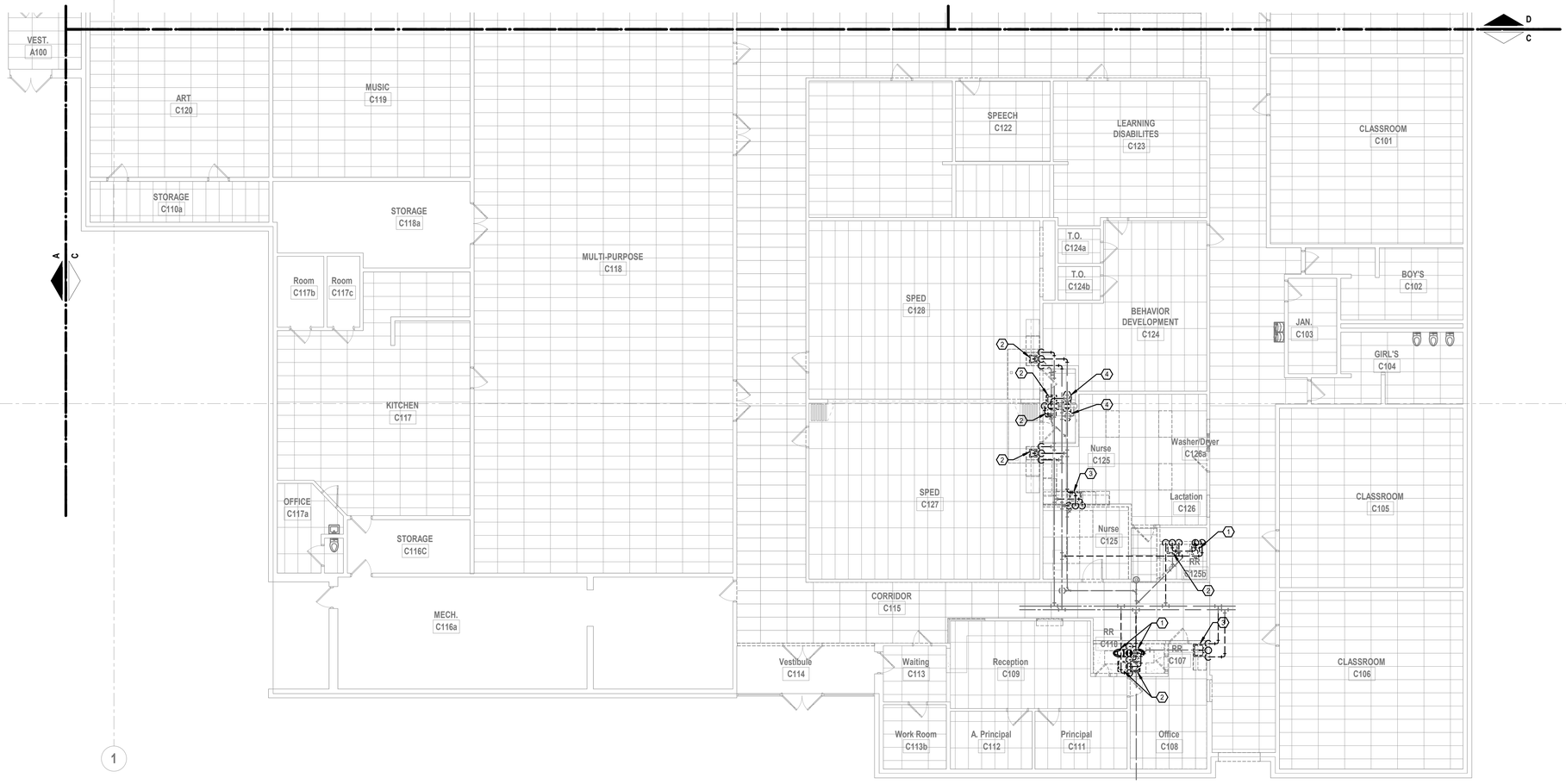

SHEET KEYNOTE LEGEND

PLAN NOTES:

1. DISCONNECT AND REMOVE EXISTING WATER CLOSET AND ASSOCIATED BRANCH PIPING. CAP WATER AND VENT PIPING AT MAINS AND CAP SANITARY PIPE BELOW FINISHED FLOOR.
2. DISCONNECT AND REMOVE EXISTING LAVATORY AND ASSOCIATED BRANCH PIPING. CAP WATER AND VENT PIPING AT MAINS AND CAP SANITARY PIPE BELOW FINISHED FLOOR.
3. DISCONNECT AND REMOVE EXISTING SINK AND ASSOCIATED BRANCH PIPING. CAP WATER AND VENT PIPING AT MAINS AND CAP SANITARY PIPE BELOW FINISHED FLOOR.
4. DISCONNECT AND REMOVE EXISTING WATER CLOSET. NEW WATER CLOSET TO BE INSTALLED IN SAME LOCATION AND CONNECTED TO EXISTING PIPING.

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Olathe, KS 66061
Phone 913.345.2127
Fax 913.345.0617

100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
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 2314713

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
PE-2015008541
PROFESSIONAL ENGINEER
11/22/23

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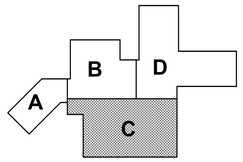
KEY PLAN



JOB NO:	23028
DRAWN BY:	SBI
CHECKED BY:	RJD
DATE:	11.22.2023

DP101C

A1 Scale 1/8" = 1'-0"

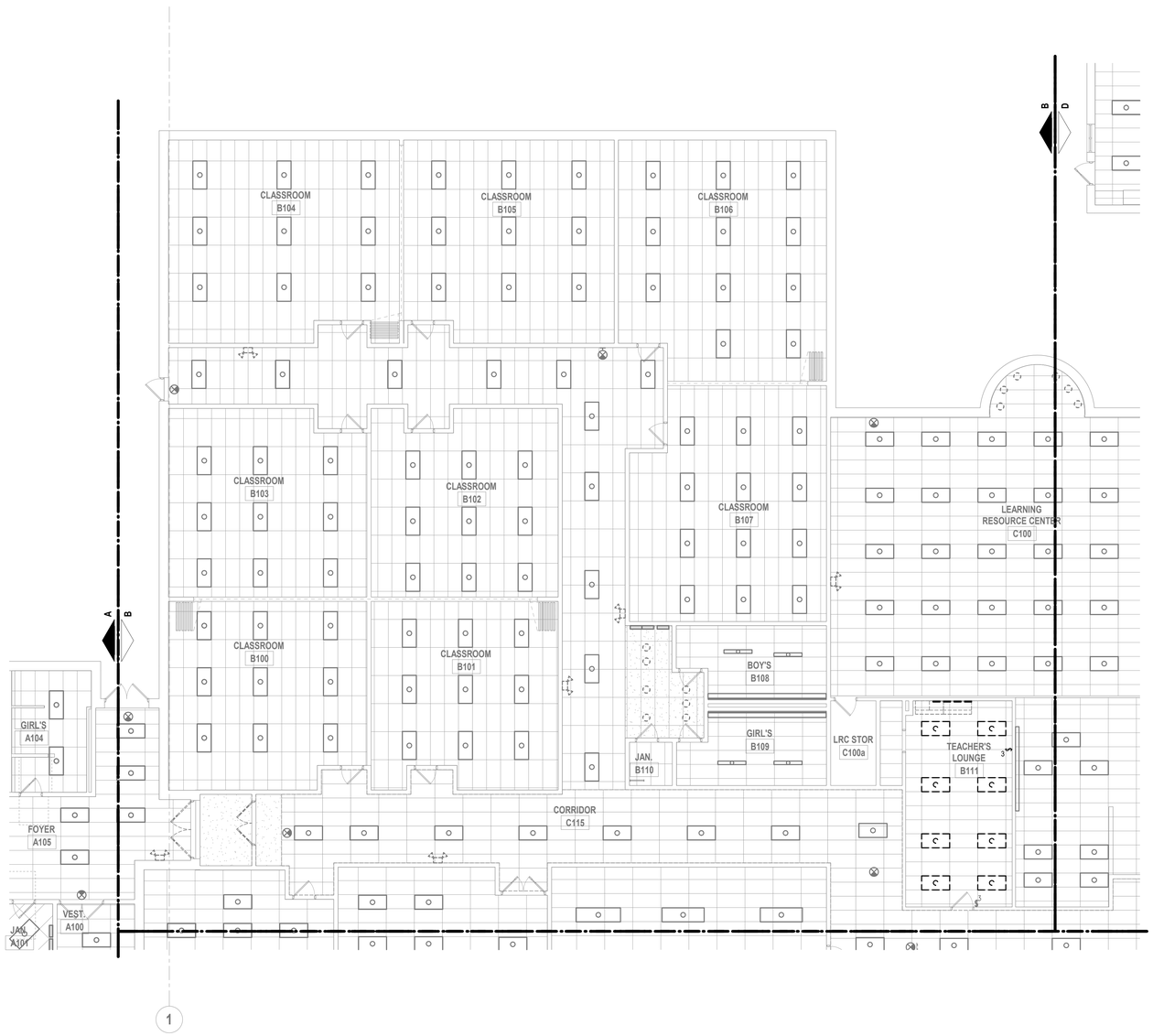
DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

DEMOLITION PLUMBING PLAN - LEVEL 1 - AREA C

Please consider the environment before printing this.

11/30/2023 2:05:24 PM



SHEET KEYNOTE LEGEND

DEMOLITION GENERAL NOTES:

1. DASHED LINES INDICATE ELECTRICAL FIXTURES, DEVICES OR EQUIPMENT THAT SHALL BE REMOVED. SOLID LINES REPRESENT EXISTING EQUIPMENT OR MATERIAL TO REMAIN UNLESS OTHERWISE INDICATED.
2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTIONS AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK. VERIFY ALL ACUTAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM THE WORK AS REQUIRED TO MEET EXISTING CONDITIONS AND THE EXTENT OF THE NEW WORK INDICATED.
3. VERIFY AND RESTORE THE CONTINUITY OF ALL EXISTING CIRCUITRY INDICATED TO REMAIN IN USE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN, FURNISH AND INSTALL ALL REQUIRED CIRCUITRY, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
4. PATCH ROOFS, WALLS AND CEILINGS WHERE ANY SERVICES ARE REMOVED. PATCH AND REPAIR ALL OPENINGS THAT PENETRATE FIRE RATED WALLS, FLOORS, AND CEILING USING UL APPROVED METHODS AND MATERIALS CONSISTENT WITH THE RATING OF THE PENETRATED SURFACE.
5. WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING, AND PIPING BEYOND THE FLOOR LILNE OR WALL LINE AND PROVIDE RESTORATION OF FINISH.

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A. Doniphan Elementary School

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project number 2314713

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER
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PROFESSIONAL ENGINEER
11/22/23

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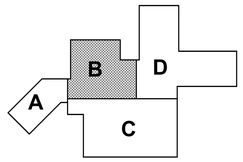
KEY PLAN



JOB NO:	23028
DRAWN BY:	SBI
CHECKED BY:	RJD
DATE:	11.22.2023

DE101B

A1 | Scale 1/8" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA B

8' 4' 0' 8'

DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA B

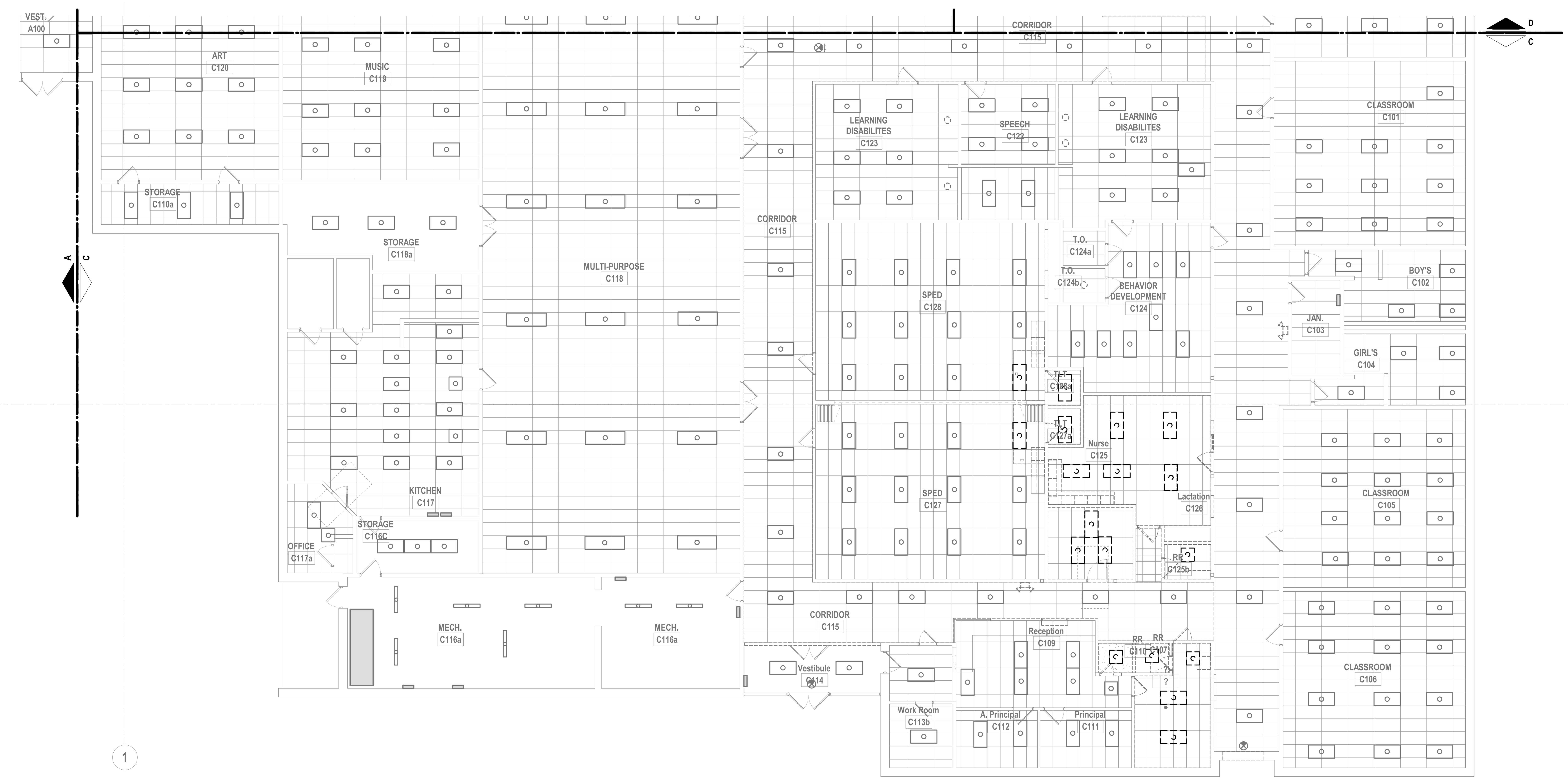
Please consider the environment before printing this.

11/30/2023 2:04:36 PM

SHEET KEYNOTE LEGEND

DEMOLITION GENERAL NOTES:

1. REFER TO SHEET DE101B FOR ADDITIONAL INFORMATION.



A1 | Scale 1/8" = 1'-0" | DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

smith&boucher engineers
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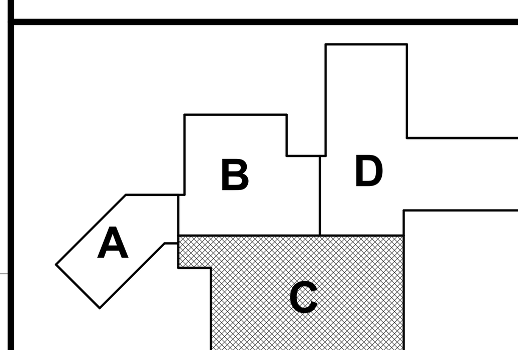
phone 913.345.2127 fax 913.345.0617
project number 2314713

KEY PLAN



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REVISIONS:

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JOB NO:	23028
DRAWN BY:	SBI
CHECKED BY:	RJD
DATE:	11.22.2023

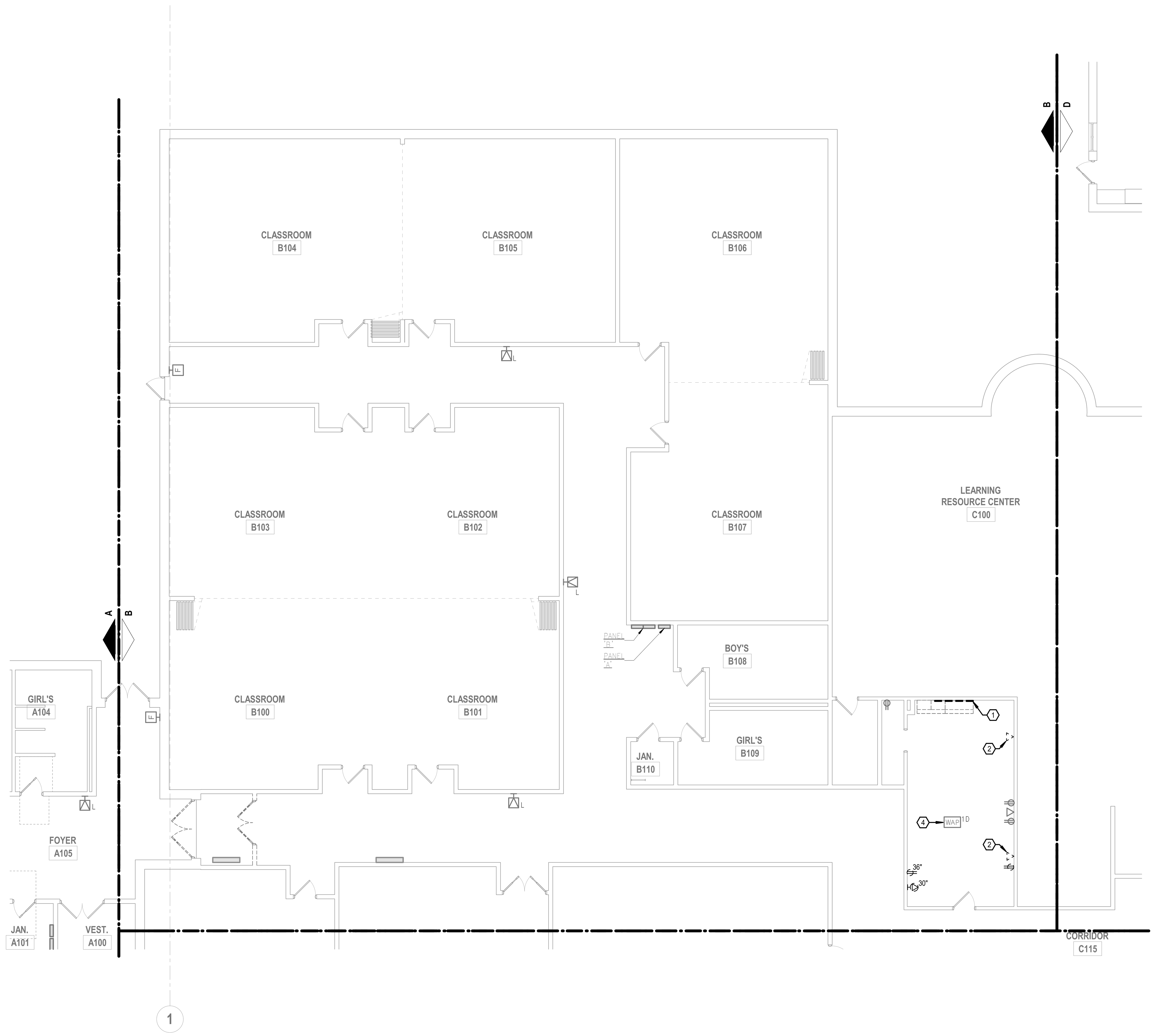
DE101C

DEMOLITION LIGHTING PLAN - LEVEL 1 - AREA C

11/30/2023 2:04:40 PM

Please consider the environment before printing this.

ALL DATA CABLES TO BE PROTECTED DURING THE DEMOLITION PROCESS. CABLES ARE TO BE REUSED IN NEW WORK.



A1 | Scale 1/8" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 1 - AREA B

8' 4' 0' 8'

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO SHEET DE101B FOR ADDITIONAL INFORMATION.

PLAN NOTES:

1. EXISTING PLUGMOLD SYSTEM TO BE DEMOLISHED. SALVAGE CIRCUITRY FOR REUSE IN NEW WORK.
2. REMOVE DATA BOX, SALVAGE EXISTING CABLES FOR RETERMINATION IN NEW BOX IN NEW WORK. TAG AND LABEL CABLE WITH PORT NUMBER. COIL CABLE ABOVE CEILING FOR REINSTALLATION. REFERENCE NEW WORK FOR ADDITIONAL INFORMATION.
3. NOT USED.
4. EXISTING WIRELESS ACCESS POINT TO BE PROTECTED DURING THE DEMOLITION AND CONSTRUCTION PROCESS FOR REUSE IN NEW WORK.

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project number 2314713

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RYAN JEROD DIEDIKER
NUMBER PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
11/22/23

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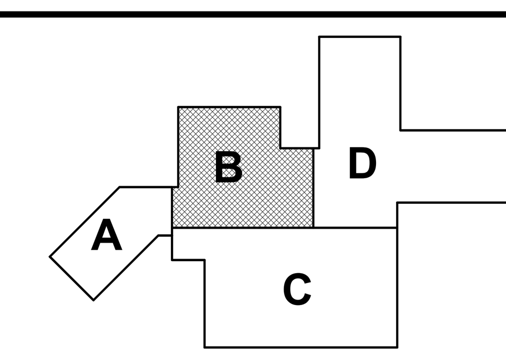
KEY PLAN



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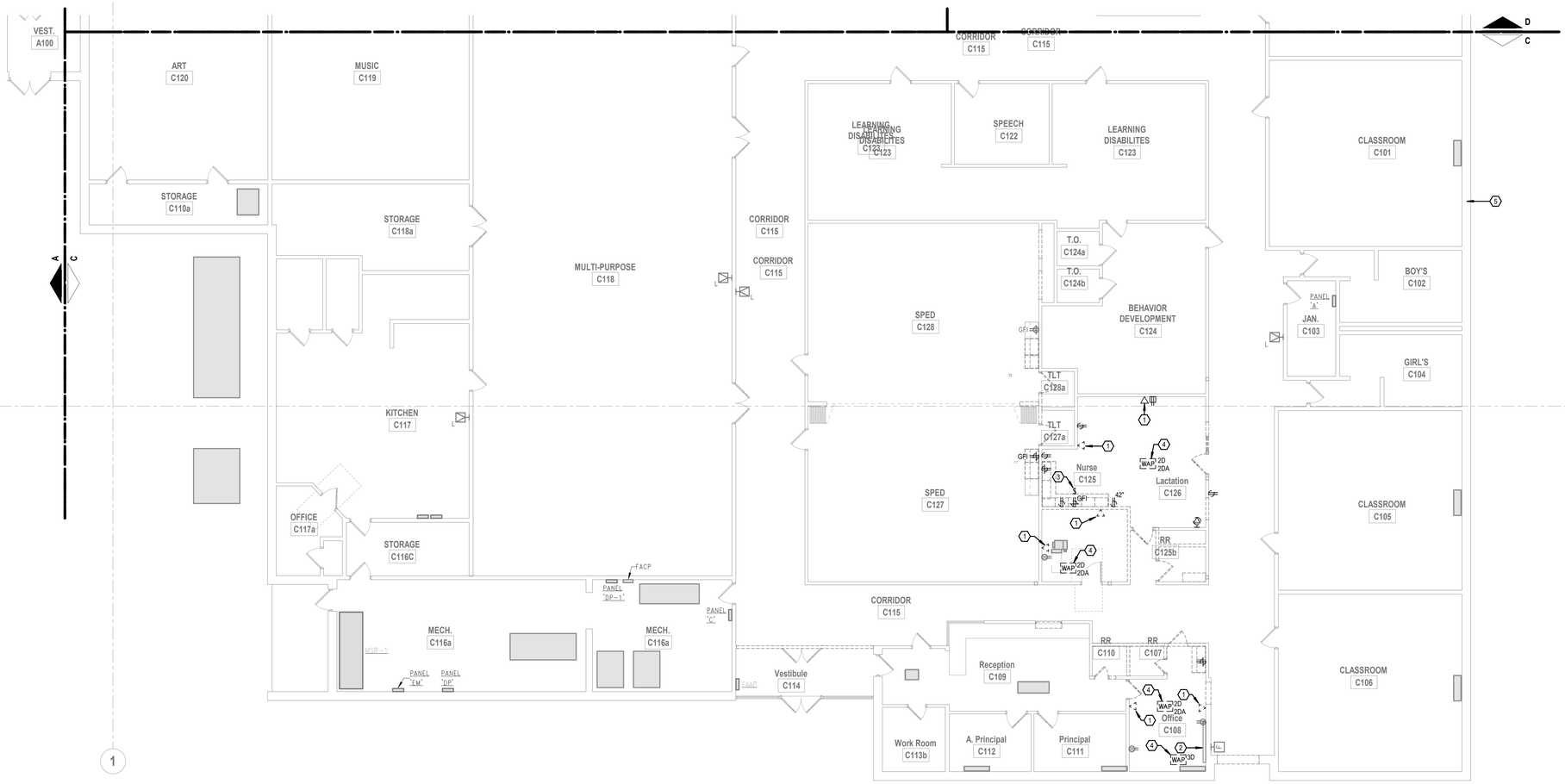
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 11.22.2023

DE201B

DEMOLITION POWER PLAN - LEVEL 1 - AREA B

Please consider the environment before printing this.

ALL DATA CABLES TO BE PROTECTED DURING THE DEMOLITION PROCESS. CABLES ARE TO BE REUSED IN NEW WORK.



SHEET KEYNOTE LEGEND

DEMOLITION GENERAL NOTES:

1. REFER TO SHEET DE101B FOR ADDITIONAL INFORMATION.

DEMOLITION PLAN NOTES:

1. REMOVE DATA BOX. SALVAGE EXISTING CABLES FOR RETERMINATION IN NEW BOX IN NEW WORK. TAG AND LABEL CABLE WITH PORT NUMBER. COIL CABLE ABOVE CEILING FOR REINSTALLATION. REFERENCE NEW WORK FOR ADDITIONAL INFORMATION.
2. EXISTING PLUG MOLD SYSTEM TO REMAIN.
3. COUNTER MOUNTED SWITCH TO BE DEMOLISHED.
4. EXISTING WIRELESS ACCESS POINT TO BE REMOVED FOR CEILING DEMOLITION. SALVAGE AND REINSTALL. REFER TO SHEET E201D TO ADDITIONAL INFORMATION.

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STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015000541
PROFESSIONAL ENGINEER
11/22/23

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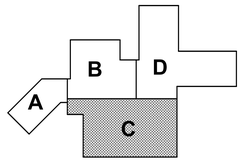

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DRAWN BY:	SBI
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DATE:	11.22.2023

DE201C

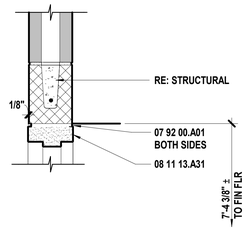
A1 | Scale 1/8" = 1'-0" | DEMOLITION POWER PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

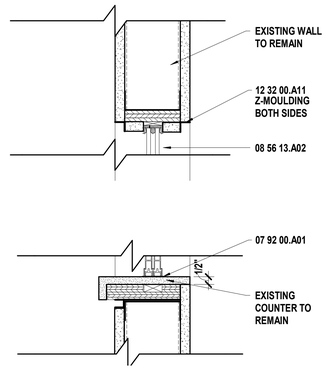
DEMOLITION POWER PLAN - LEVEL 1 - AREA C

Please consider the environment before printing this.

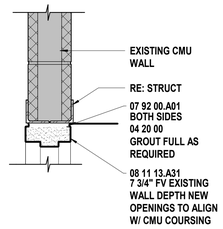
11/30/2023 2:04:56 PM



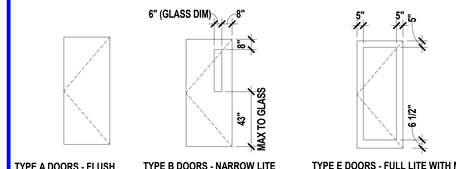
N1 Scale 1 1/2" = 1'-0" — HM Head Retrofit @ CMU Wall (Interior Only)



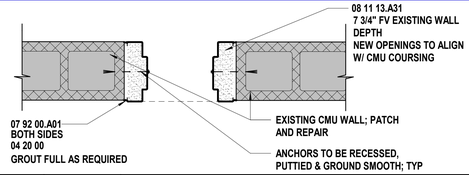
M6 Scale 3" = 1'-0" — Section - Transaction Window



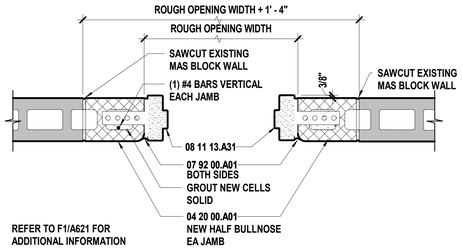
M10 Scale 1 1/2" = 1'-0" — HM Head @ Existing CMU



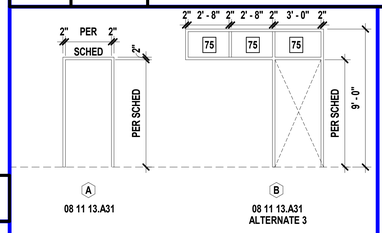
P12 Scale 1/4" = 1'-0" — Door Types



M12 Scale 1 1/2" = 1'-0" — HM Jamb @ Existing CMU



K1 Scale 1 1/2" = 1'-0" — HM Jamb Retrofit @ CMU



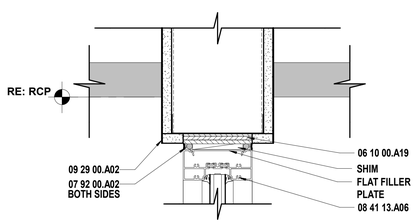
J6 Scale 1/4" = 1'-0" — Hollow Metal Frame Types

DOOR SCHEDULE

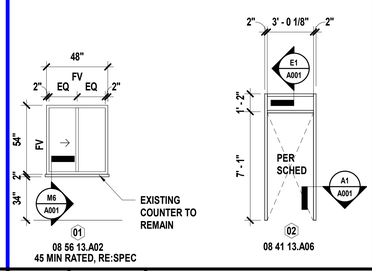
DOOR				Frame		All DETAILS on A001 UNO					
Number	Size	Type	Glass	Type	Material	Head	Strike	Hinge	Thresh	Fire Rating	Remarks
2C107	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	E12/A001	E9/A001	E9/A001		20 MIN	Alternate AD1
2C108	3'-0" x 7'-2" x 1 3/4"	B	--	A	HM	E12/A001	E9/A001	E9/A001		--	Alternate AD1
2C108a	3'-0" x 7'-2" x 1 3/4"	B	74	A	HM	P10/A001	M12/A001	M12/A001		20 MIN	
2C108b	2'-8" X 7'-2" CO	--	--	A	HM	P10/A001	M12/A001	M12/A001		--	New Frame in Existing Opening
2C109	3'-0" x 7'-2" x 1 3/4"	E10	--	2	ALUM	--	--	--		--	Card Reader, RE: Elec
2C110	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	N1/A001 SIM	K1/A001 SIM	K1/ A001 SIM		--	Alternate AD1
2C125	3'-0" x 7'-2" x 1 3/4"	EXIST	EXIST	B	HM	E12/A001	E9/A001	E9/A001	--	20 MIN	Alternate AD3
2C125a	PR 2'-4" x 7'-2" x 1 3/4"	A1	74	A	HM	N1/A001	K1/A001	K1/A001		20 MIN	
2C125b	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	E12/A001	E9/A001	E9/A001		--	
2C126	3'-0" x 7'-2" x 1 3/4"	A1	74	A	HM	N1/A001	K1/A001	K1/A001		20 MIN	
2C127a	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	E12/A001	E9/A001	E9/A001		--	ALTERNATE AD2
2C128a	3'-0" x 7'-2" x 1 3/4"	A1	--	A	HM	E12/A001	E9/A001	E9/A001		--	ALTERNATE AD2

DOOR TYPE NOTES

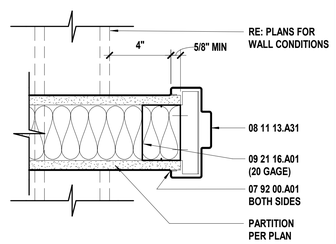
1. REFER TO DOOR SCHEDULE FOR OVERALL DOOR DIMENSIONS
2. DIMENSIONS ASSOCIATED WITH VISION LITES ARE TO THE OUTSIDE OF THE VISION LITE FRAME UNLESS NOTED OTHERWISE
3. REFER TO DOOR SCHEDULE TO DETERMINE WHICH DOORS ARE REQUIRED TO BE FIRE RATED
4. REFER TO DOOR SCHEDULE FOR GLASS TYPES IN DOORS



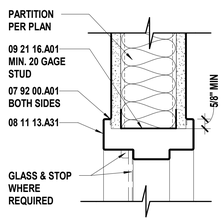
E1 Scale 3" = 1'-0" — Aluminum Frame Head



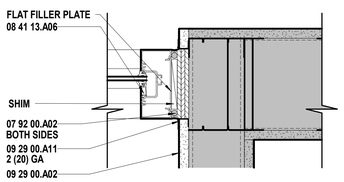
E6 Scale 1/4" = 1'-0" — Aluminum Frame Types



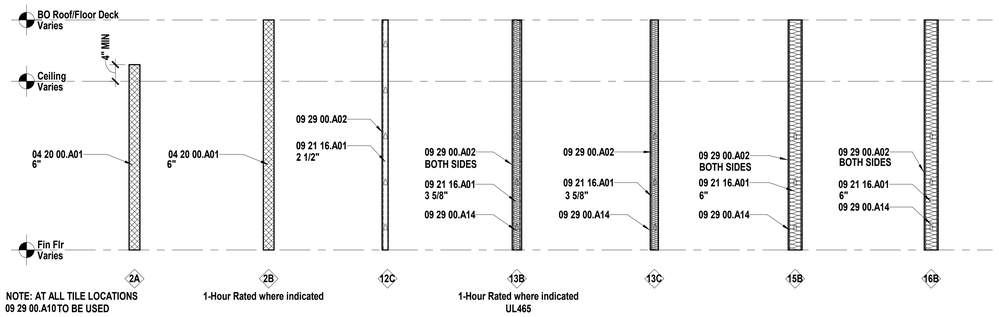
E9 Scale 3" = 1'-0" — HM Jamb @ Metal Stud



E12 Scale 3" = 1'-0" — HM Head @ Metal Stud



A1 Scale 3" = 1'-0" — Aluminum Frame Jamb



A6 Scale 3/8" = 1'-0" — Wall Types

SHEET KEYNOTE LEGEND

04 20 00	UNIT MASONRY
04 20 00.A01	CONCRETE MASONRY UNITS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 11 13.A31	HOLLOW METAL FRAME
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 56 13.A02	OPERABLE TRANSACTION WINDOW
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.A11	GYPSUM BOARD TRIM
09 29 00.A14	SOUND ATTENUATION BLANKETS
12 32 00.A11	ADA SINK BASE

GLASS LEGEND

GLASS TYPE = 1

FULLY-TEMPERED MONOLITHIC FLOAT GLASS

11 08 80 00.A11 1/4" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS

FIRE GLASS

75 08 80 00.A75 45 MINUTE FIRE-PROTECTIVE GLASS

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100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

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

NOVEMBER 22, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23028
DRAWN BY: LB
CHECKED BY: JB
DATE: 11.22.2023

A001

GENERAL ARCHITECTURAL INFORMATION

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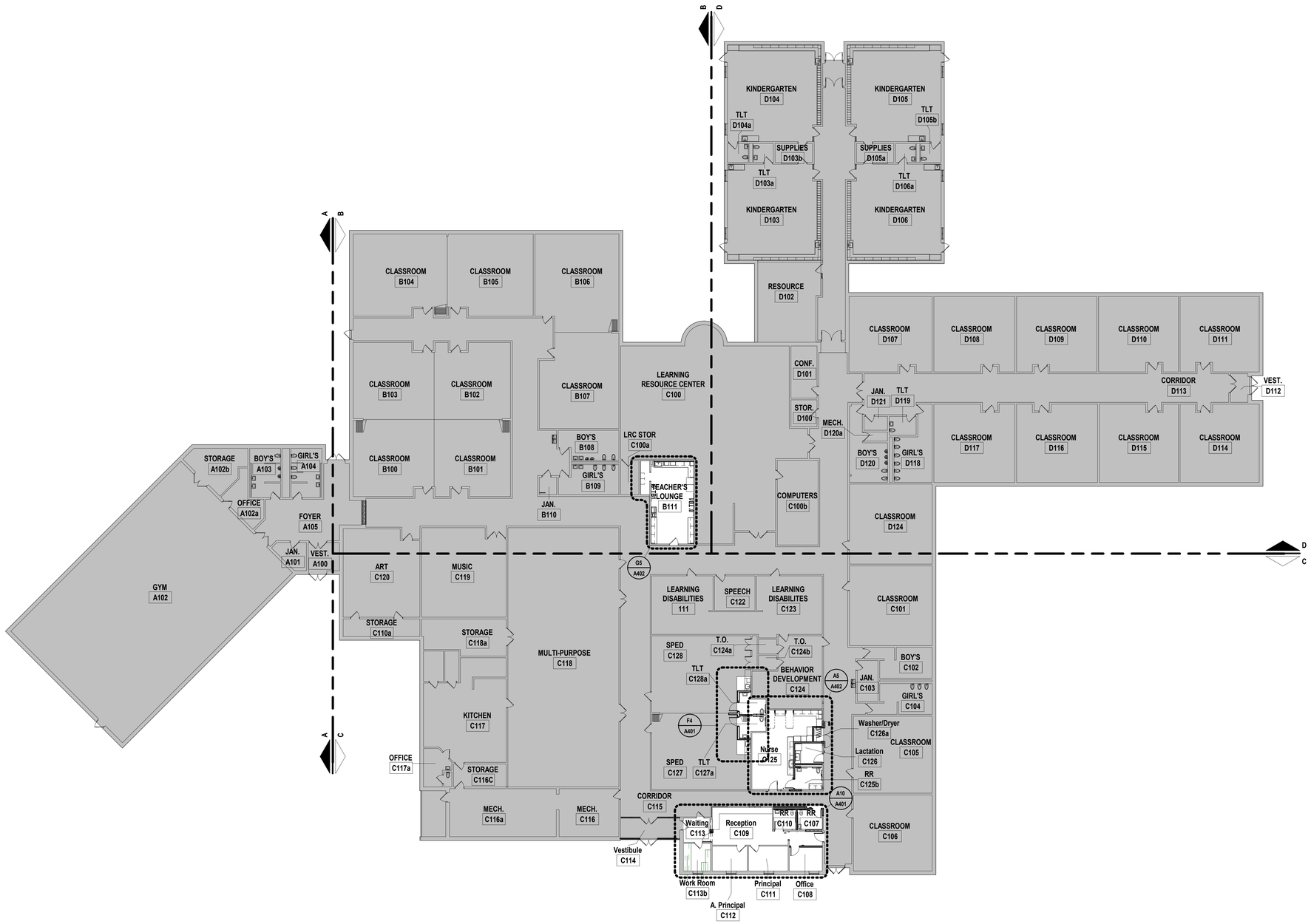
11/20/2023 4:13:47 PM

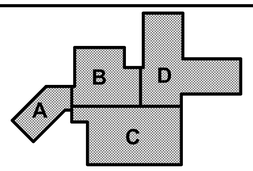


SHEET KEYNOTE LEGEND

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. COORDINATE WALL REPAIR AND INTALLATION OF NEW DOORS AND WINDOWS WITH DEMOLITION SHEETS
5. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN

KEY PLAN



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CHECKED BY: JB
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A101

FLOOR PLAN - OVERALL

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

16' 8' 0' 16'

11/30/2023 4:13:49 PM

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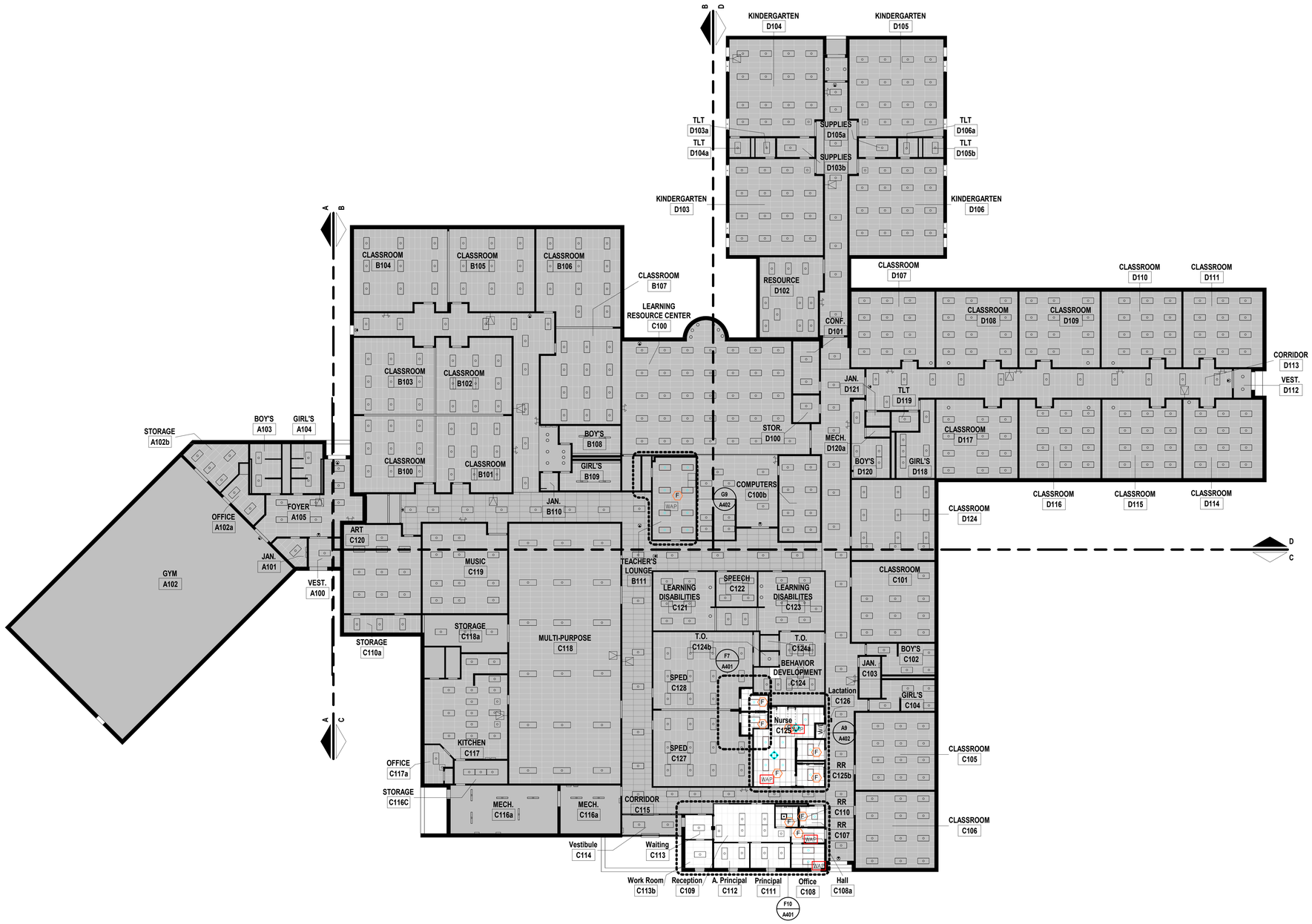
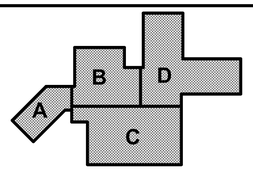


SHEET KEYNOTE LEGEND

SHEET NOTES

1. REFER TO SHEET G000 FOR SHEET INDEX
2. REFER TO MEP AND TECHNOLOGY SHEETS FOR SPECIFIC CEILING MOUNTED DEVICES
3. ALL ACT GRID TO BE CENTERED IN ROOM UNLESS NOTED OTHERWISE
4. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN

KEY PLAN



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A121

REFLECTED CEILING PLAN - OVERALL

A1	Scale 1/16" = 1'-0"	Reflected Ceiling Plan - Overall - Level 1

16' 8' 0' 16'

11/30/2023 4:13:52 PM

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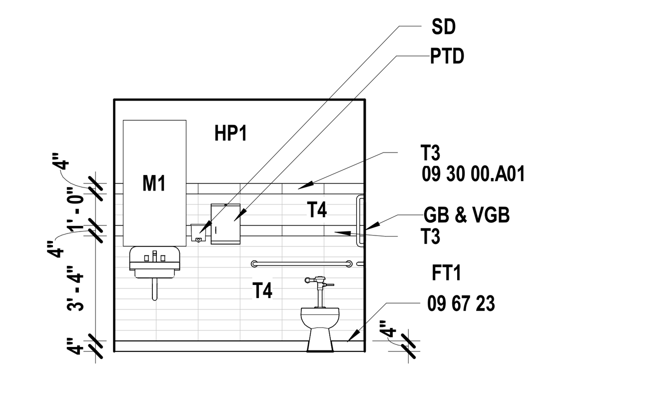
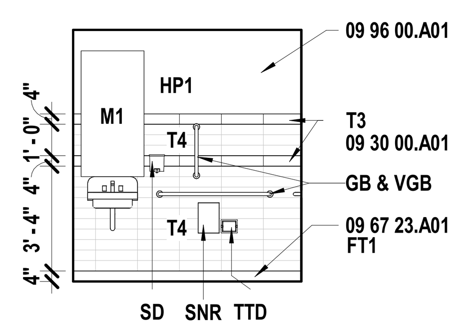
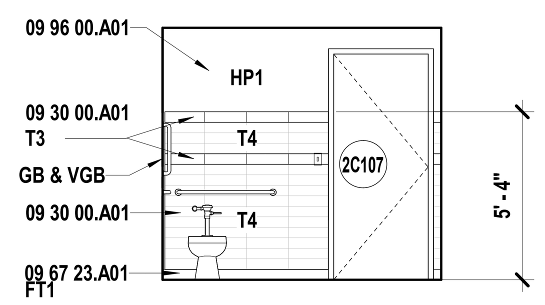


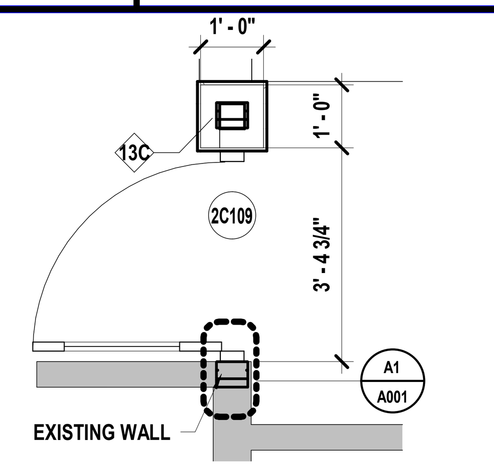
P1 Scale 1/4" = 1'-0" Tile Elevation - Restroom C110 - N



P4 Scale 1/4" = 1'-0" Tile Elevation - Restroom C107 - W

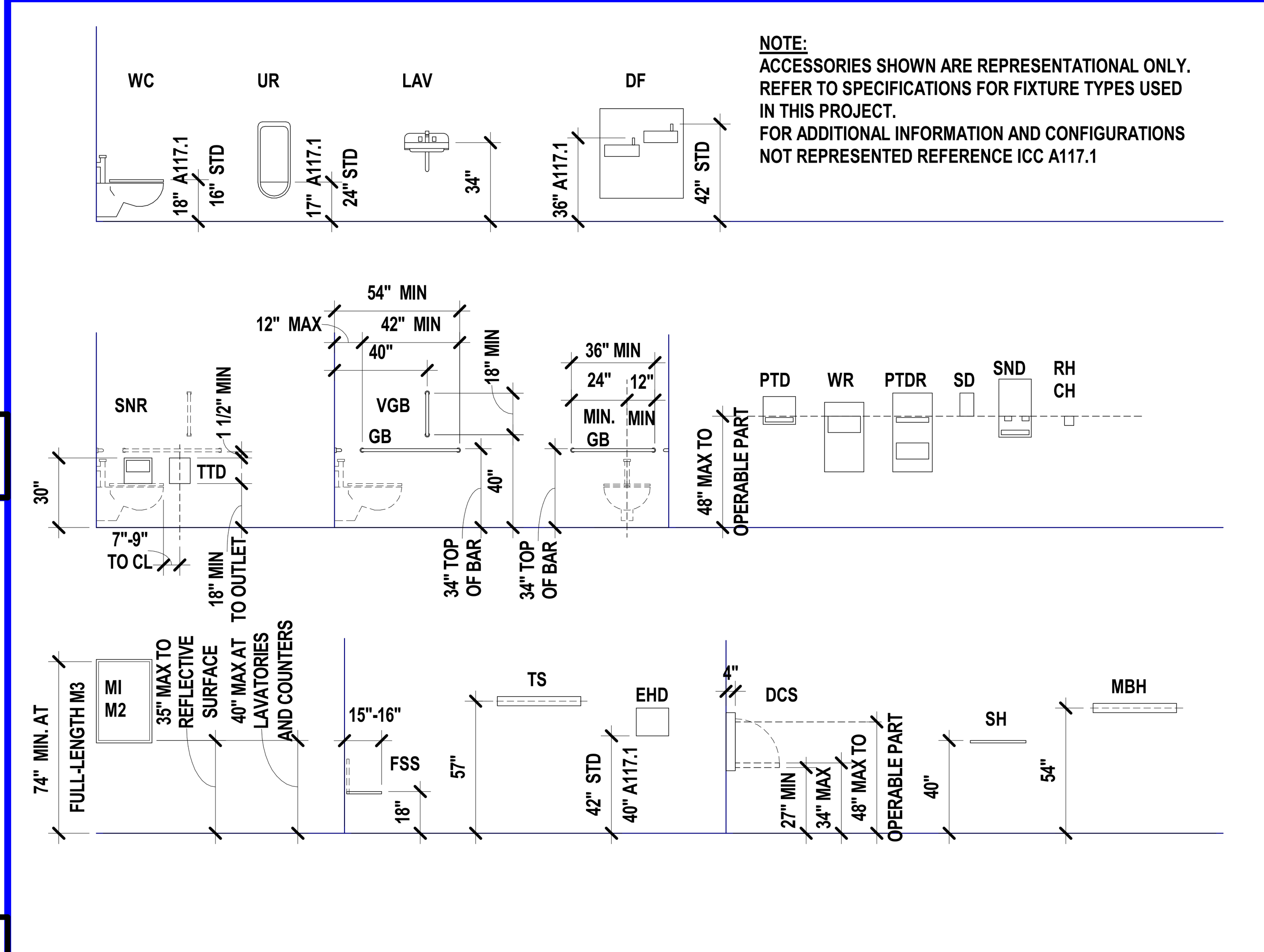


L1 Scale 1/4" = 1'-0" Tile Elevation - RR C107 - N



L4 Scale 1/2" = 1'-0" Enlarged Plan - Admin Entry Door

FIXTURE AND ACCESSORY MOUNTING HEIGHTS



NOTE:
ACCESSORIES SHOWN ARE REPRESENTATIONAL ONLY. REFER TO SPECIFICATIONS FOR FIXTURE TYPES USED IN THIS PROJECT.
FOR ADDITIONAL INFORMATION AND CONFIGURATIONS NOT REPRESENTED REFERENCE ICC A117.1

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		10 28 00.A03	OFOI
PTDR	COMBINATION TOWEL DISPENSER / WAS	NOT USED ACLE	10 28 00.A04	CFCI
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	NOT USED	10 28 00.A07	CFCI
SNR	SANITARY NAPKIN RECEPTOR		10 28 00.A08	CFCI
SCD	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	NOT USED	10 28 00.A10	CFCI
SC	SHOWER CURTAIN	NOT USED	10 28 00.A11	CFCI
FSS	FOLDING SHOWER SEAT	NOT USED	10 28 00.A12	CFCI
BSD	SOAP DISH	NOT USED	10 28 00.A13	CFCI
RH	ROBE HOOK	NOT USED	10 28 00.A14	CFCI
CH	COAT HOOK		10 28 00.A15	CFCI
TS	TOWEL STRIP	NOT USED	10 28 00.A16	CFCI
SPT	SPECIMEN PASS-THROUGH	NOT USED	10 28 00.A17	CFCI
BUC	BEDPAN AND URINAL CABINET	NOT USED	10 28 00.A18	CFCI
EHD	WARM-AIR DRYER	NOT USED	10 28 00.A19	CFCI
DCS	DIAPER CHANGING STATION	NOT USED	10 28 00.A20	CFCI
ULG	UNDER-LAVATORY GUARD	NOT USED	10 28 00.A21	CFCI
SH	UTILITY SHELF	NOT USED	10 28 00.A22	CFCI
MBH	MOP AND BROOM HOLDER	NOT USED	10 28 00.A23	CFCI

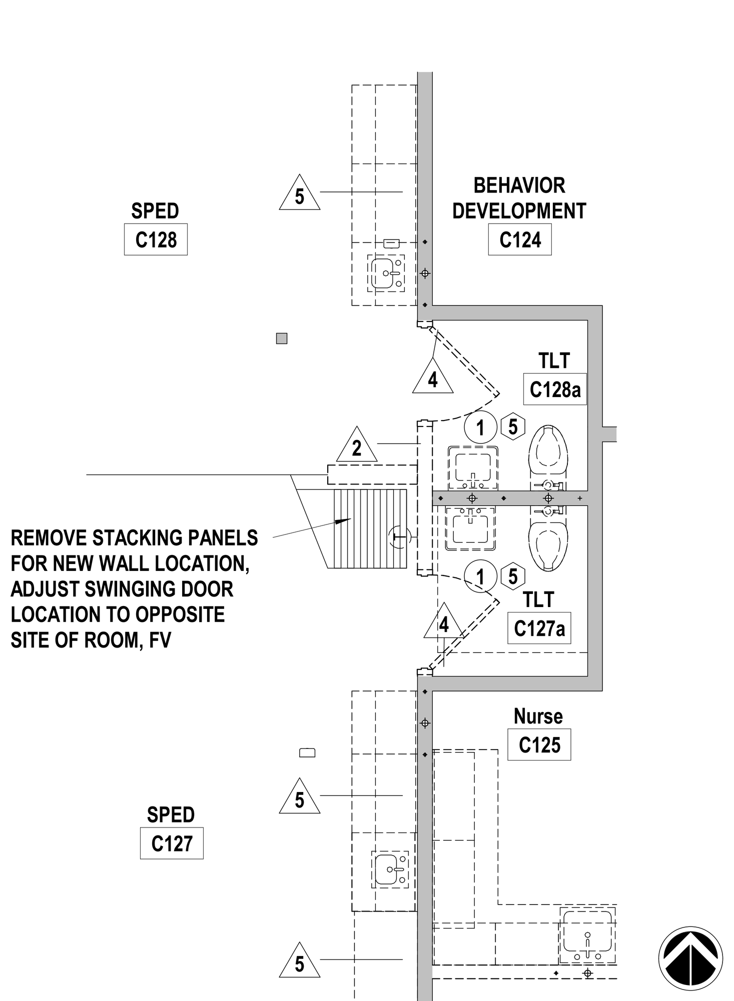
NOTES: TAGS ABOVE WITH A "C" PREFIX (IE CGB) DENOTE CHILD MOUNTING HEIGHTS
CF = CONTRACTOR FURNISH OF = OWNER FURNISH
CI = CONTRACTOR INSTALL OI = OWNER INSTALL

SHEET KEYNOTE LEGEND

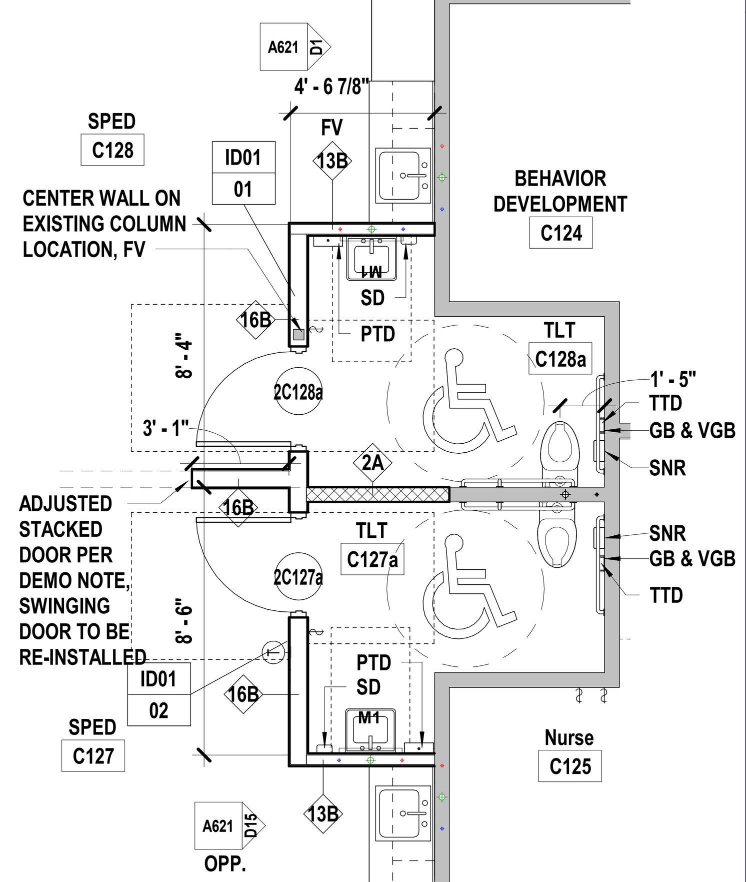
09 30 00.A01	TILE
09 67 23	RESINOUS FLOORING
09 67 23.A01	RESINOUS FLOORING
09 96 00.A01	EGGSHELL
12 24 13.A01	ROLLER SHADES (MANUAL)

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

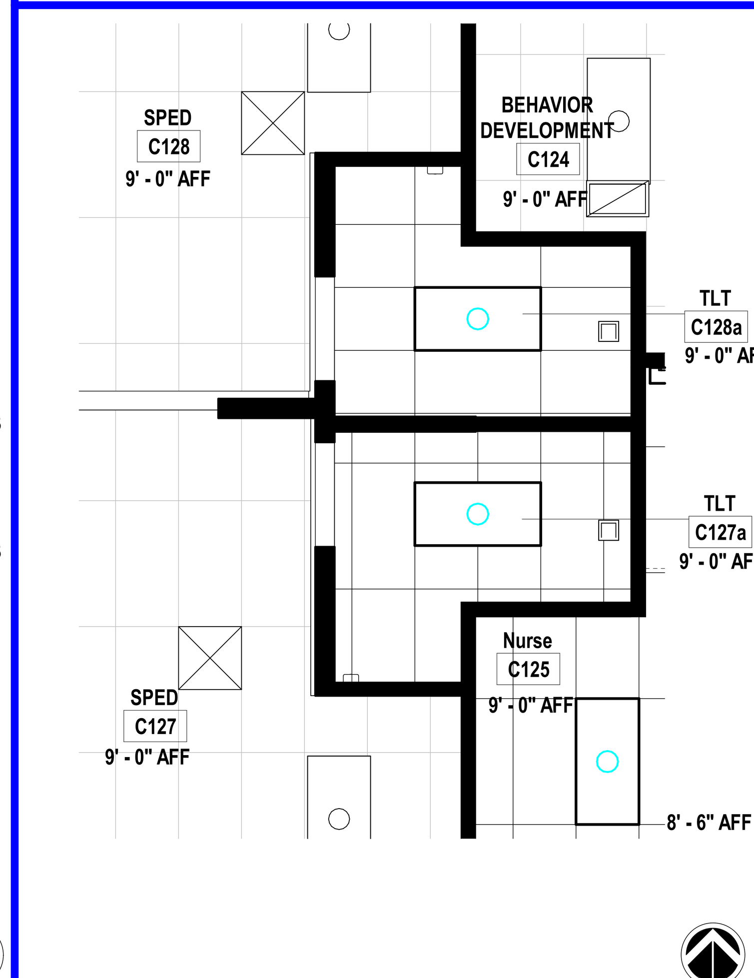


F1 Scale 1/4" = 1'-0" Enlarged Demo Plan - Restroom C128a / C127a ALTERNATE 2

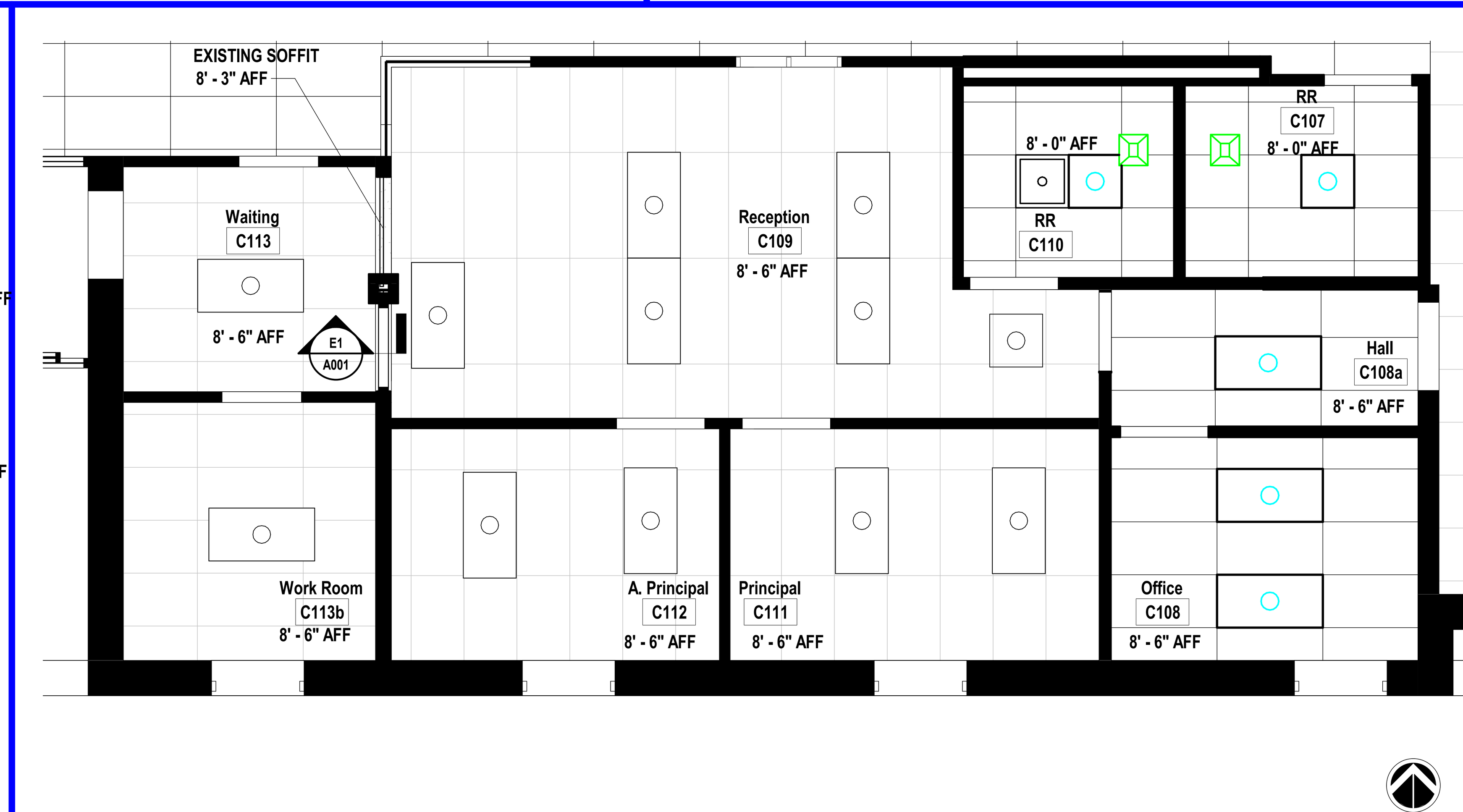


NOTE: ALL NEW WALLS AND WALLS WITH SCOPE OF WORK ARE TO BE PATCHED/PREPPED AND PAINTED TO MATCH EXISTING FINISH

F4 Scale 1/4" = 1'-0" Enlarged Plan - Restroom C128a / C127a ALTERNATE 2



F7 Scale 1/4" = 1'-0" Enlarged RCP - Restroom C128a / C127a ALTERNATE 2



F10 Scale 1/4" = 1'-0" Enlarged RCP - Admin, Nurse, and Restrooms C110 and C107 ALTERNATE 1

DEMOLITION NOTES

FLOORS & BASE

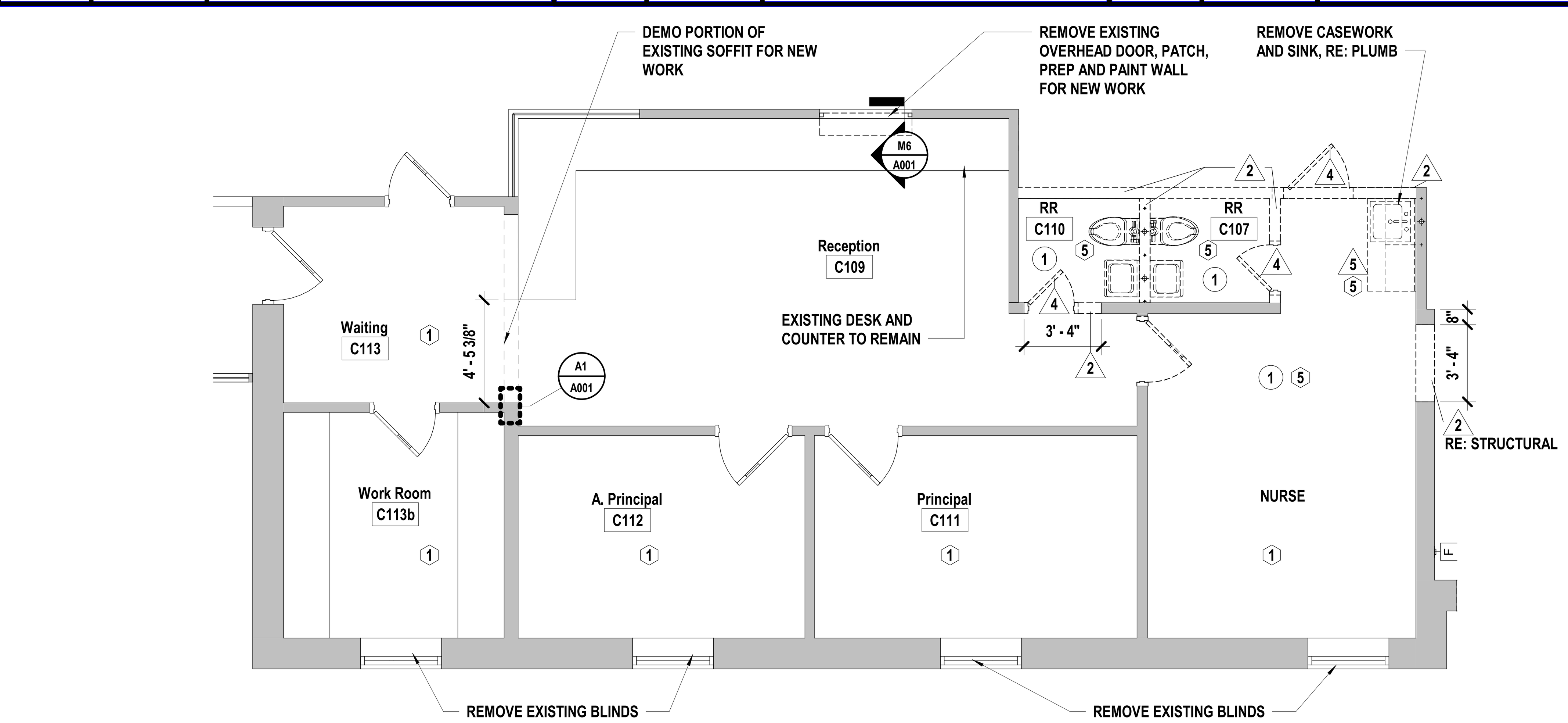
1. REMOVE EXISTING CARPET AND BASE INCLUDING ADHESIVE
2. REMOVE EXISTING VINYL COMPOSITION TILE (VCT) AND BASE INCLUDING ADHESIVE
3. REMOVE EXISTING SHEET VINYL AND BASE INCLUDING ADHESIVE.
4. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR UNDER SLAB MECHANICAL, ELECTRICAL AND PLUMBING WORK. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS. COORDINATE WITH MEP SHEETS FOR NEW WORK AND CAPPING OF ABANDONED SERVICES
5. REMOVE EXISTING EPOXY FLOORING TO EXPOSE EXISTING CONCRETE SLAB.

WALLS

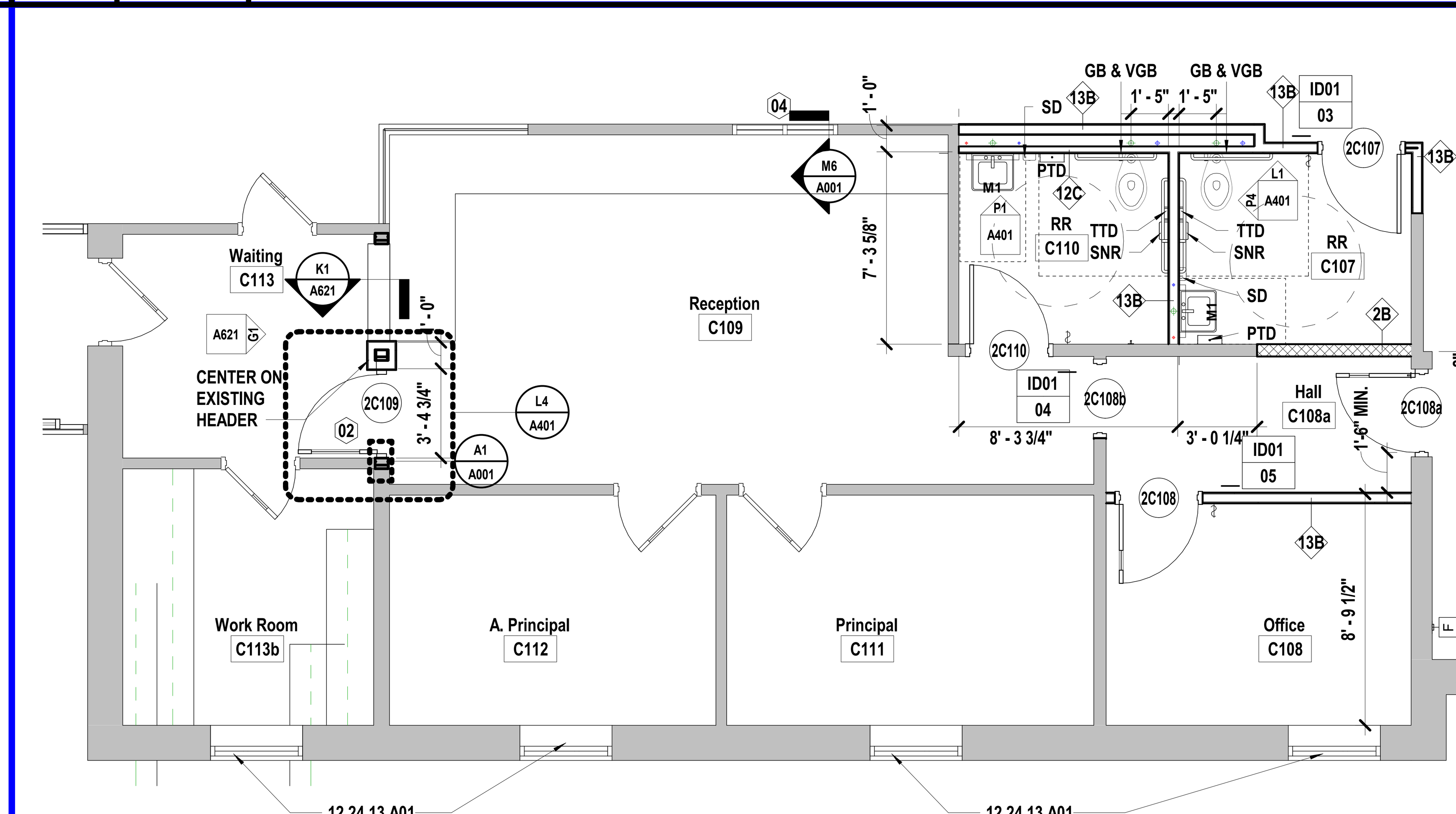
1. REMOVE ALL/PORTION OF EXISTING CMU/BRICK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS. SALVAGE BRICK FOR REUSE AS MAY BE REQUIRED.
2. REMOVE ALL/PORTION OF EXISTING CMU WALL. COORDINATE EXTENTS OF REMOVAL 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 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 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
6. REMOVE EXISTING MARKERBOARDS, CHALKBOARDS, TACKBOARDS/TACKWALL INCLUDING BRACKETS AND CAREFULLY STORE FOR REINSTALLATION.

CEILINGS

1. REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION SYSTEM. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM.
2. REMOVE EXISTING LIGHTING. REUSE AND/OR MODIFY EXISTING WIRING FOR NEW LIGHTING. REFER TO ELECTRICAL DRAWINGS.



A1 Scale 1/4" = 1'-0" Enlarged Demo Plan - Admin, Nurse, and Restrooms C110 and C107 ALTERNATE 1



A10 Scale 1/4" = 1'-0" Enlarged Plan - Admin, Nurse, and Restrooms C110 and C107 ALTERNATE 1

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DATE: 11.22.2023

A401

ENLARGED TOILET PLANS & DETAILS

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11/30/2023 4:13:57 PM

N1	Scale	Demo Photo - Built-In Shelving - C125
	N/A	

SHEET KEYNOTE LEGEND

09 30 00.A01	TILE
09 67 23.A01	RESINOUS FLOORING
09 77 23.A01	FABRIC-WRAPPED PANELS
10 21 23.A01	CUBICLE CURTAIN
10 26 00.A03	CORNER GUARDS

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VGB	VERTICAL GRAB BAR		10 28 00.A06	CFCI
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RH	ROBE HOOK	NOT USED	10 28 00.A14	CFCI
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TS	TOWEL STRIP	NOT USED	10 28 00.A16	CFCI
SPT	SPECIMEN PASS-THROUGH	NOT USED	10 28 00.A17	CFCI
BUC	BEDPAN AND URINAL CABINET	NOT USED	10 28 00.A18	CFCI
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SH	UTILITY SHELF	NOT USED	10 28 00.A22	CFCI
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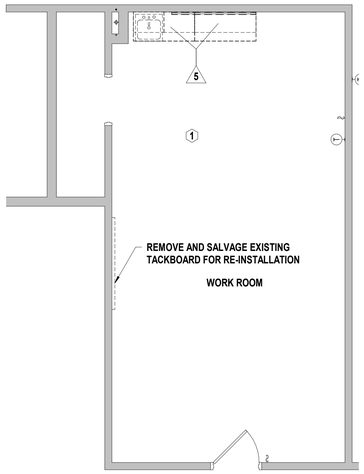
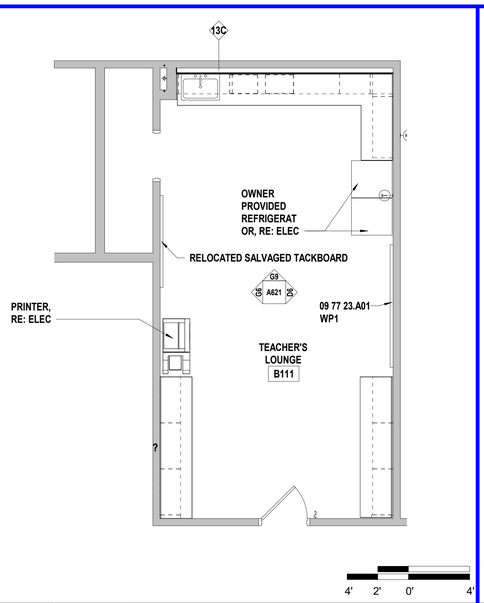
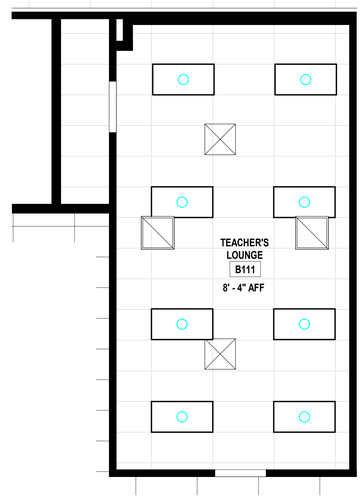


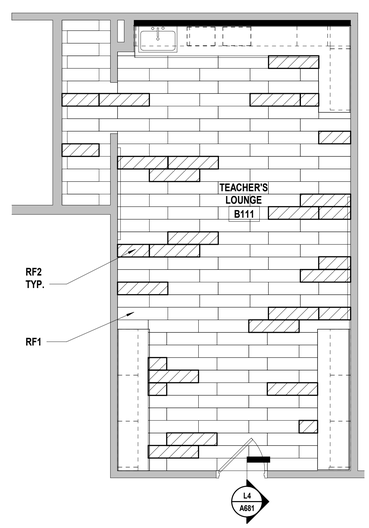
G1	Scale 1/4" = 1'-0"	Enlarged Demo Plan - Teacher's Lounge B111



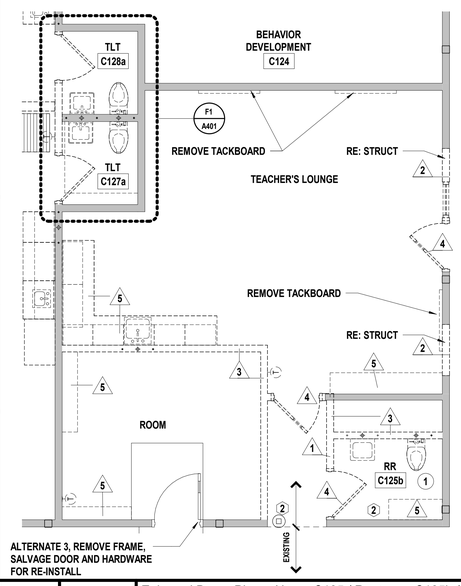
G5	Scale 1/4" = 1'-0"	Enlarged Plan - Teacher's Lounge B111



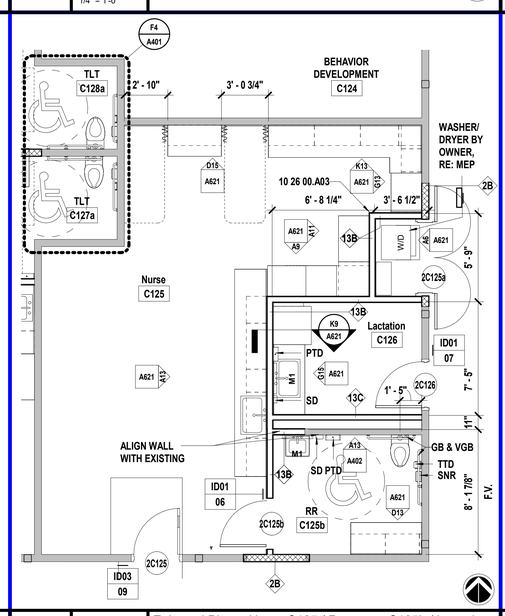
G9	Scale 1/4" = 1'-0"	Enlarged RCP - Teacher's Lounge B111



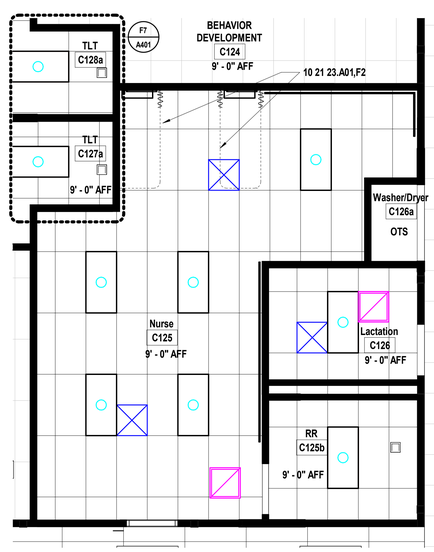
D13	Scale 1/4" = 1'-0"	Floor Finish Plan - Teacher's Lounge B111



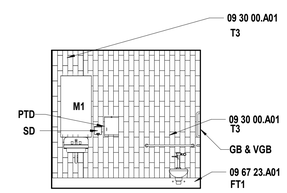
A1	Scale 1/4" = 1'-0"	Enlarged Demo Plan - Nurse C125 / Restroom C125b / Lactation C126



A5	Scale 1/4" = 1'-0"	Enlarged Plan - Nurse C125 / Restroom C125b / Lactation C126



A9	Scale 1/4" = 1'-0"	Enlarged RCP - Nurse C125 / Restroom C125b / Lactation C126



A13	Scale 1/4" = 1'-0"	Tile Elevation - RR C125b - N

DEMOLITION NOTES

FLOORS & BASE

1. REMOVE EXISTING CARPET AND BASE INCLUDING ADHESIVE
2. REMOVE EXISTING VINYL COMPOSITION TILE (VCT) AND BASE INCLUDING ADHESIVE
3. REMOVE EXISTING SHEET VINYL AND BASE INCLUDING ADHESIVE.
4. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR UNDER SLAB MECHANICAL, ELECTRICAL AND PLUMBING WORK. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS. COORDINATE WITH MEP SHEETS FOR NEW WORK AND CAPPING OF ABANDONED SERVICES
5. REMOVE EXISTING EPOXY FLOORING TO EXPOSE EXISTING CONCRETE SLAB.

WALLS

1. REMOVE ALL/PORTION OF EXISTING CMU/BRICK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP DRAWINGS. SALVAGE BRICK FOR REUSE AS MAY BE REQUIRED.
2. REMOVE ALL/PORTION OF EXISTING CMU 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 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 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
6. REMOVE EXISTING MARKERBOARDS, CHALKBOARDS, TACKBOARDS/TACKWALL INCLUDING BRACKETS AND CAREFULLY STORE FOR REINSTALLATION.

CEILINGS

1. REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION SYSTEM. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM.
2. REMOVE EXISTING LIGHTING. REUSE AND/OR MODIFY EXISTING WIRING FOR NEW LIGHTING. REFER TO ELECTRICAL DRAWINGS.

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. COORDINATE WALL REPAIR AND INTALLATION OF NEW DOORS AND WINDOWS WITH DEMOLITION SHEETS
5. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN

100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

November 22, 2023
Kevin E. Nelson
A-2019015618

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CHECKED BY: JB
DATE: 11.22.2023

A402

ENLARGED PLAN & DETAILS

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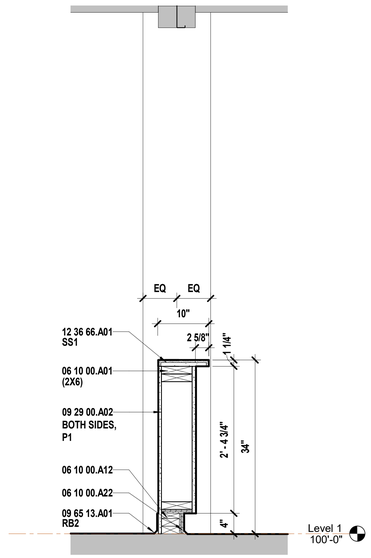
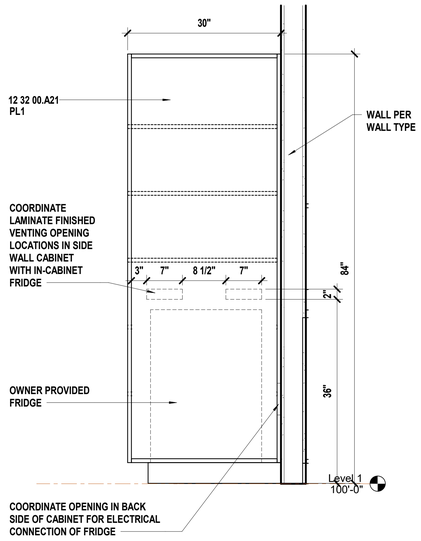
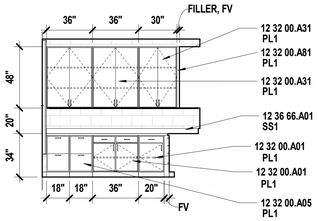


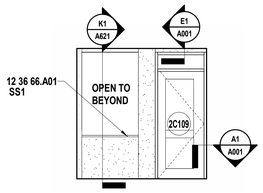
K1 Scale 1" = 1'-0" — Section - Area C - Waiting C113 - Counter



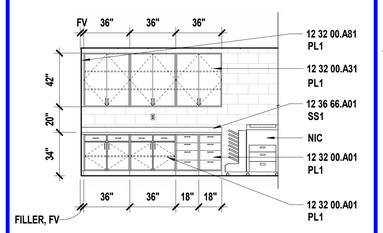
K9 Scale 1" = 1'-0" — Casework Section - Lactation C126



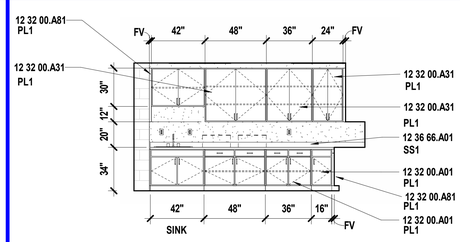
K13 Scale 1/4" = 1'-0" — Interior Elevation - Nurse C125 - N



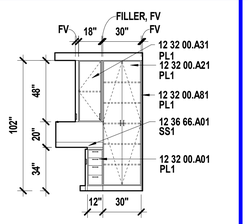
G1 Scale 1/4" = 1'-0" — Interior Elevation - Area C - Waiting C113 - E



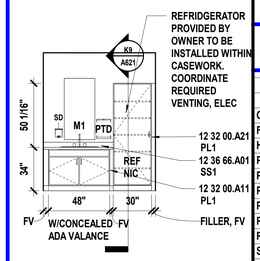
G6 Scale 1/4" = 1'-0" — Interior Elevation - Teacher's Lounge B111 - W



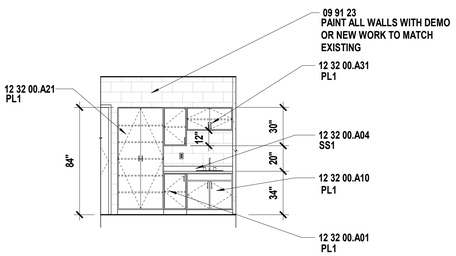
G9 Scale 1/4" = 1'-0" — Interior Elevation - Teacher's Lounge B111 - N



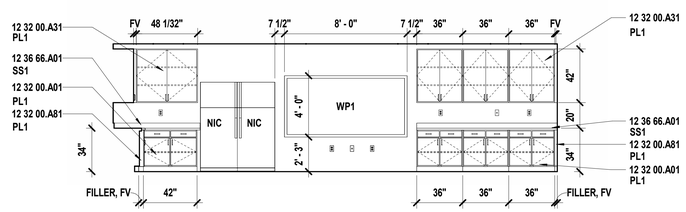
G13 Scale 1/4" = 1'-0" — Int. Elev. - Nurse C125 - E



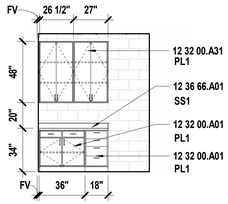
G15 Scale 1/4" = 1'-0" — Int. Elev. - Lactation C126



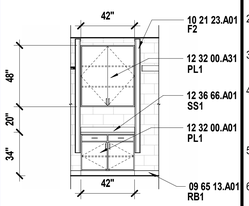
D1 Scale 1/4" = 1'-0" — Interior Elevation - SPED - Casework — ALTERNATE 2



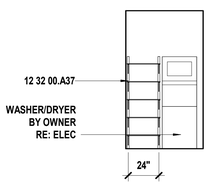
D6 Scale 1/4" = 1'-0" — Interior Elevation - Teacher's Lounge B111 - E



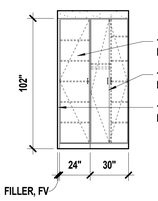
D13 Scale 1/4" = 1'-0" — Int. Elev. - RR C125b - S



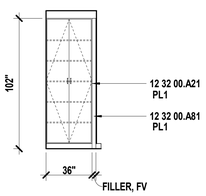
D15 Scale 1/4" = 1'-0" — Int. Elev. - Nurse C125 - N



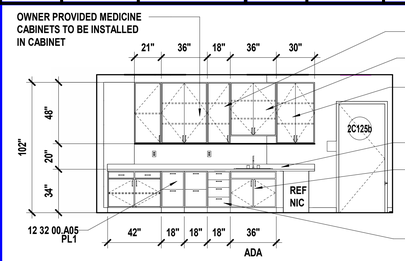
A6 Scale 1/4" = 1'-0" — Interior Elevation - Washer/Dryer - West



A9 Scale 1/4" = 1'-0" — Casework Elev. - Nurse C125 - S



A11 Scale 1/4" = 1'-0" — Casework Elev. - Nurse C125 - E



A13 Scale 1/4" = 1'-0" — Interior Elevation - Nurse C125 - E

SHEET KEYNOTE LEGEND

06 10 00.A01	DIMENSION LUMBER FRAMING
06 10 00.A12	PRESERVATIVE TREATED WOOD BLOCKING/NAILERS
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 65 13.A01	RESILIENT BASE
09 91 23	INTERIOR PAINTING
10 21 23.A01	CUBICLE CURTAIN
12 32 00.A01	BASE CABINET
12 32 00.A04	FOLDER STORAGE
12 32 00.A05	FILE DRAWER
12 32 00.A10	SINK BASE
12 32 00.A11	ADA SINK BASE
12 32 00.A21	TALL CABINET
12 32 00.A25	WARDROBE
12 32 00.A31	WALL CABINET
12 32 00.A37	WALL SHELF
12 32 00.A81	FILLER
12 36 66.A01	SOLID SURFACE COUNTERTOP

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.
6. PAINT ALL EXPOSED STEEL, UNO.
7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR MATCH EXISTING, 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

SHEET MATERIAL FINISH LEGEND

ID	MATERIAL	COLOR/FINISH
C2a	Carpet	WARM 3589
F2	Fabric	009 Calming
HP1	High Performance Coating	DOVE TAIL
P1	Paint	NATURAL CHOICE
P2	Paint	DOVE TAIL
P4	Paint	
P5	Paint	
PL2	Plastic Laminate	FRENCH LINEN
RB2	Resilient Base & Accessories	100 BLACK
SS1	Simulated Stone	EVEREST
T3	Tile	ARCTIC WHITE 0790
T4	Tile	1174 SEA BREEZE
TR1	Trim	
WP1	Fabric Wrapped Tack Panel	TBD

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
10. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
11. NOT USED
12. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
13. ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
14. ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
15. ALL TALL STORAGE AND WARDROBE CABINETS ARE TO BE 24" DEEP, UNO
16. ALL NURSE CASEWORK TO HAVE LOCKS
17. FILE DRAWERS TO HAVE LOCKS
18. ALL WARDROBE CABINETS TO HAVE LOCKS
19. NOT USED
20. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW

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State Certificate of Authority #EGC000178
25501 Valley Parkway, Suite 200
Olathe, KS 66061
913.345.2127 phone

100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

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

November 22, 2023
Kevin E. Nelson
A-2019015618

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DATE: 11.22.2023

A621

INTERIOR ELEVATIONS

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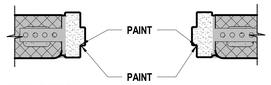
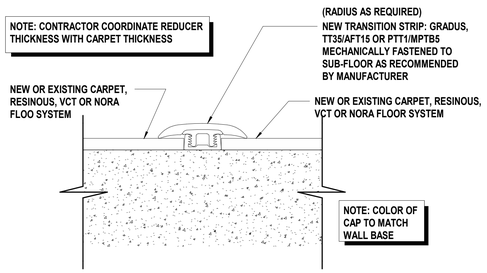
GENERAL FINISH NOTES

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.
6. PAINT ALL EXPOSED STEEL, UNO.
7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR MATCH EXISTING, 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



NOTE: PAINT TO TRANSITION AT DOOR THROAT

Q7	Scale 1 1/2" = 1'-0"	HM Jamb Frame Finish Where Noted



L4	Scale 12" = 1'-0"	Flooring Reducer Strip Detail

MATERIAL FINISH LEGEND

MATERIAL	ID	KEYNOTE	MANUFACTURER	STYLE/MODEL NO	COLOR/FINISH	COMMENTS
Carpet	C2	09 68 13.A01	J+J	ANALYTIC FORM 7633	WARM BLUE 3593	INSTALL ASHLAR
Carpet	C2a	09 68 13.A01	J+J	ANALYTIC 7631	WARM 3589	INSTALL ASHLAR
Ceiling	CLG1	09 51 13.A01	ARMSTRONG	1755 FINE FISSURED	WHITE (WH)	24x48
Ceiling	CLG2					MATCH EXISTING/ PROVIDED BY OWNER
Concrete Finish	CON1	03 30 00.A21			CLEAR CONCRETE FINISH	
Fabric	F2	10 21 23.A01	Maharam	Moderate 2, 511519	009 Calming	
Floor (Poured) Topping	FT1	09 67 23.A01	DESCO	CREMONA TG	33% SW7653, 32% SW7018, 35%SW7625	INTEGRAL COVE BASE
High Performance Coating	HP1	09 96 00.A01	SHERWIN WILLIAMS	SW7018	DOVE TAIL	
Paint	P1	09 91 23	SHERWIN WILLIAMS	SW7011	NATURAL CHOICE	
Paint	P2	09 91 23	SHERWIN WILLIAMS	SW7018	DOVE TAIL	
Paint	P4	09 91 23	SHERWIN WILLIAMS			DOOR FRAMES
Paint	P5	09 91 23	SHERWIN WILLIAMS	BLUE ACCENT		
Plastic Laminate	PL2	12 32 00	WILSONART	5016-38	FRENCH LINEN	
Resilient Base & Accessories	RB2	09 65 13.A01	ROPPE	700 SERIES 4" BASE	100 BLACK	
Resilient Flooring	RF1	09 65 19.A01	INTERFACE	BRUSHED LINES	A01604 GALENA	INSTALL ASHLAR
Resilient Flooring	RF2	09 65 19.A01	INTERFACE	BRUSHED LINES	A01605 GRAPHITE	INSTALL ASHLAR
Simulated Stone	SS1	12 36 66	CORIAN	SOLID SURFACE	EVEREST	
Tile	T3	09 30 00.A01	DALTILE	COLORWHEEL 4X16	ARCTIC WHITE 0790	
Tile	T4	09 30 00.A01	DALTILE	COLORWHEEL 4X16	1174 SEA BREEZE	
Trim	TR1	09 30 00.A04	Schluter	Schiene		
Fabric Wrapped Tack Panel	WP1	09 77 23.A01	CF Stinson	4' - 0" H x 8' - 0" W	TBD	

ROOM FINISH SCHEDULE

ROOM		FLOOR		WALLS				CEILING	
NO	Name	Finish	Base	North	East	South	West	Finish	Finish Remarks
B111	TEACHER'S LOUNGE	RF1/RF2	RB2	P1	P1	P1	P1	EXIST	RE: D13/A402
C107	RR	FT1	FT1	RE: ELEV	HP1	HP1	RE: ELEV	CLG1	ALTERNATE 1
C108	Office	C2a	RB2	P1	P1	P5	P1	CLG1	ALTERNATE 1
C108a	Hall	C2	RB2	P1	P1	P1	P1	CLG1	ALTERNATE 1
C109	Reception	C2	RB2	P1	P1	P1	P1	CLG1	ALTERNATE 1
C110	RR	FT1	FT1	RE: ELEV	HP1	HP1	HP1	CLG1	ALTERNATE 1
C111	Principal	C2a	P1	P1	P1	P5	P1	CLG1	ALTERNATE 1
C112	A. Principal	C2a	RB2	P1	P1	P5	P1	CLG1	ALTERNATE 1
C113	Waiting	C2	RB2	P1	P1	P1	P1	CLG1	ALTERNATE 1
C113b	Work Room	C2	RB2	P1	P1	P1	P1	CLG1	ALTERNATE 1
C125	Nurse	FT1	FT1	P2	P2	P2	P2	CLG1	
C125b	RR	FT1	FT1	RE: ELEV	HP1	HP1	HP1	CLG1	
C126	Lactation	FT1	FT1	P1	P1	P1	P1	CLG1	
C126a	Washer/Dryer	CON1	RB2	P1	P1	P1	P1	OTS	
C127a	TLT	FT1	FT1	RE: ELEV	HP1	HP1	HP1	CLG1	

SHEET KEYNOTE LEGEND

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
10. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
11. NOT USED
12. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
13. ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
14. ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
15. ALL TALL STORAGE AND WARDROBE CABINETS ARE TO BE 24" DEEP, UNO
16. ALL NURSE CASEWORK TO HAVE LOCKS
17. FILE DRAWERS TO HAVE LOCKS
18. ALL WARDROBE CABINETS TO HAVE LOCKS
19. NOT USED
20. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW

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913.345.2127 phone

100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
KEVIN E. NELSON
A-2019015618
ARCHITECT

November 22, 2023
Kevin E. Nelson
A-2019015618

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JOB NO: 23028
DRAWN BY: NR
CHECKED BY: JB
DATE: 11.22.2023

A681

MAT. FINISH LEGEND, SCHED. & ELEVATIONS

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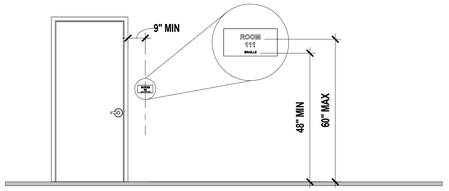
HELVETICA

BACKGROUND COLOR MATCH - SW6811 HONORABLE BLUE

PICTOGRAMS REF PROJECT PICTOGRAMS FOR GIRLS' RR

BRAILLE

N1	Scale	ID01 - Restroom ID
	6" = 1'-0"	



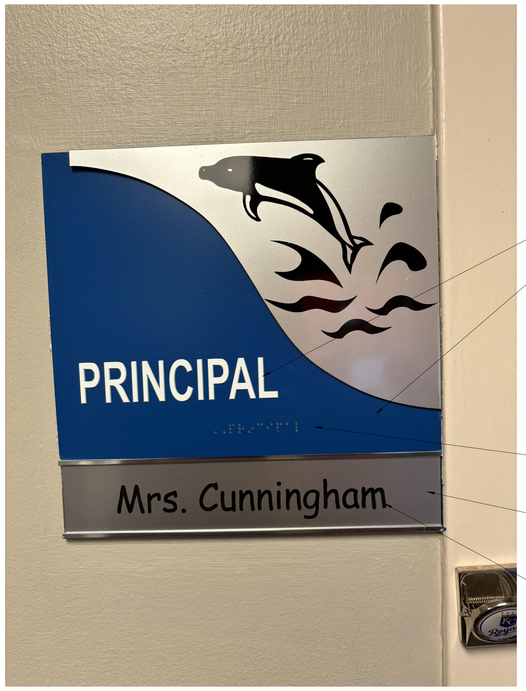
MOUNT ON LATCH SIDE OF DOOR

DIMENSIONS GO TO THE BOTTOM OF TACTILE CHARACTERS OR BRAILLE

N5	Scale	Typical Room ID Signage Elevation A - Standard Location
	6" = 1'-0"	

Room ID Signage Schedule

Sign Number	Type Mark	Number On Sign	Message On Sign	Number on Drawing	Name On Drawings	Remarks
			C127a	TLT		
01	ID01	TBD	RESTROOM C107	RR		
02	ID01	TBD	RESTROOM C110	RR		
03	ID01	TBD	RESTROOM			
04	ID01	TBD	RESTROOM			
05	ID01	TBD	OFFICE	C108	Office	
06	ID01	TBD	RESTROOM C126a	C126a	Washer/Dryer	RR
07	ID01	TBD	LACTATION	C126	Lactation	
08	ID02	TBD	LAUNDRY			
09	ID03	TBD	NURSE	C125	Nurse	



MATCH EXISTING FONT

BACKGROUND COLOR MATCH - SW6811 HONORABLE BLUE

BRAILLE

CHANGEABLE METAL NAME PLATE

2-1/4"X" SATIN ALUMINUM HOLDER INSERT SIZE 2"X12", MATCH EXISTING COLOR

A1	Scale	Existing Signage ID02
	N/A	

2-1/4"X" SATIN ALUMINUM HOLDER INSERT SIZE 2"X12", MATCH EXISTING COLOR

MATCH EXISTING FONT

BRAILLE

BACKGROUND COLOR MATCH - AW6811 HONORABLE BLUE

CHANGEABLE METAL NAME PLATE

2-1/4"X" SATIN ALUMINUM HOLDER INSERT SIZE 2"X12", MATCH EXISTING COLOR

A8	Scale	Existing Signage ID03

SHEET KEYNOTE LEGEND

10 14 23 - ADA & CODE SIGNAGE

1. PAINT FACE, RETURNS, & BRAILLE TO MATCH AS INDICATED
2. PAINT FACE OF TACTILE CHARACTERS WHITE
3. FONT STYLE: HELVETICA
4. FIELD VERIFY DIMENSIONS
5. COORDINATE WITH ARCHITECT / OWNER ON FINAL SIGNAGE DESIGN AND MESSAGING

ARTWORK TO BE SUPPLIED BY ARCHITECT

ALL DIMENSIONS AND MOUNTING CONDITIONS MUST BE VERIFIED IN THE FIELD PRIOR TO FINAL ARTWORK RELEASE

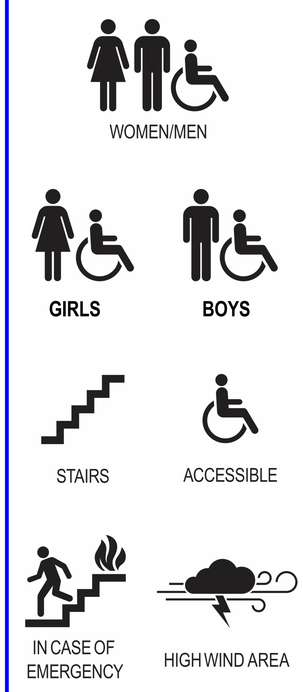
ALL ATTACHMENTS TO BE CONCEALED UNO. PROVIDE BLOCKING AS REQUIRED FOR SECURE ANCHORAGE. SEE ARCHITECTURAL WALL FOR CONSTRUCTION

GENERAL SIGNAGE NOTES

10 14 23 CODE SIGNAGE

1. PAINT FACE, RETURNS & BRAILLE TO MATCH AS INDICATED OR EXISTING.
2. PAINT FACE OF TACTILE CHARACTERS WHITE.
3. FONT STYLE: HELVETICA.
4. FIELD VERIFY DIMENSIONS.
5. COORDINATE WITH ARCHITECT/OWNER ON FINAL SIGNAGE DESIGN AND MESSAGING.

PROJECT PICTOGRAMS



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November 22, 2023
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The Professional Architects seal affixed to this sheet access 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.: 23028
DRAWN BY: NR
CHECKED BY: JB
DATE: 11.22.2023

A701

SIGNAGE SCHEDULE & TYPES

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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 Constriction 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. 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.

4. 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.

5. 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.

6. 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.

7. Shop Drawings and Deferred Submittals

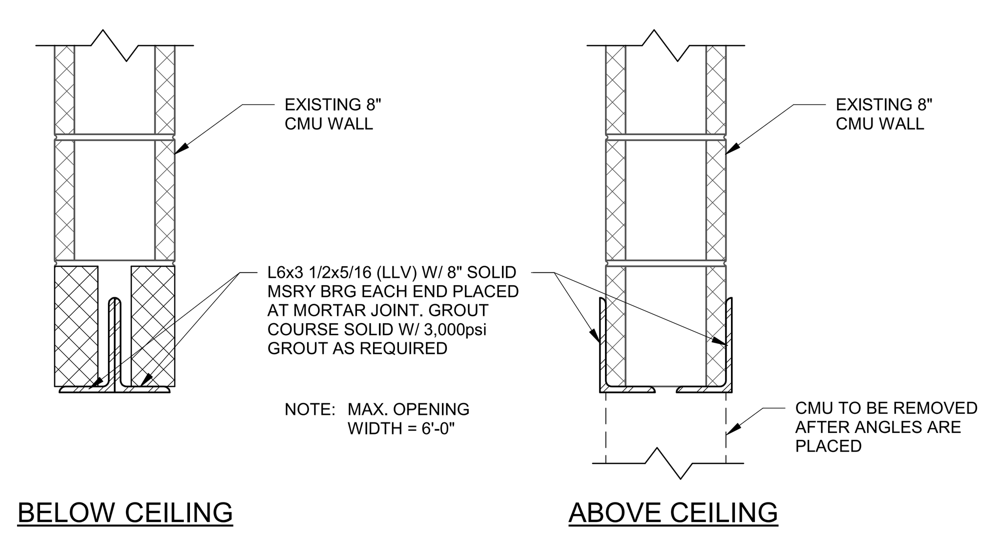
A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell 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.

8. Statement of Structural Special Inspections

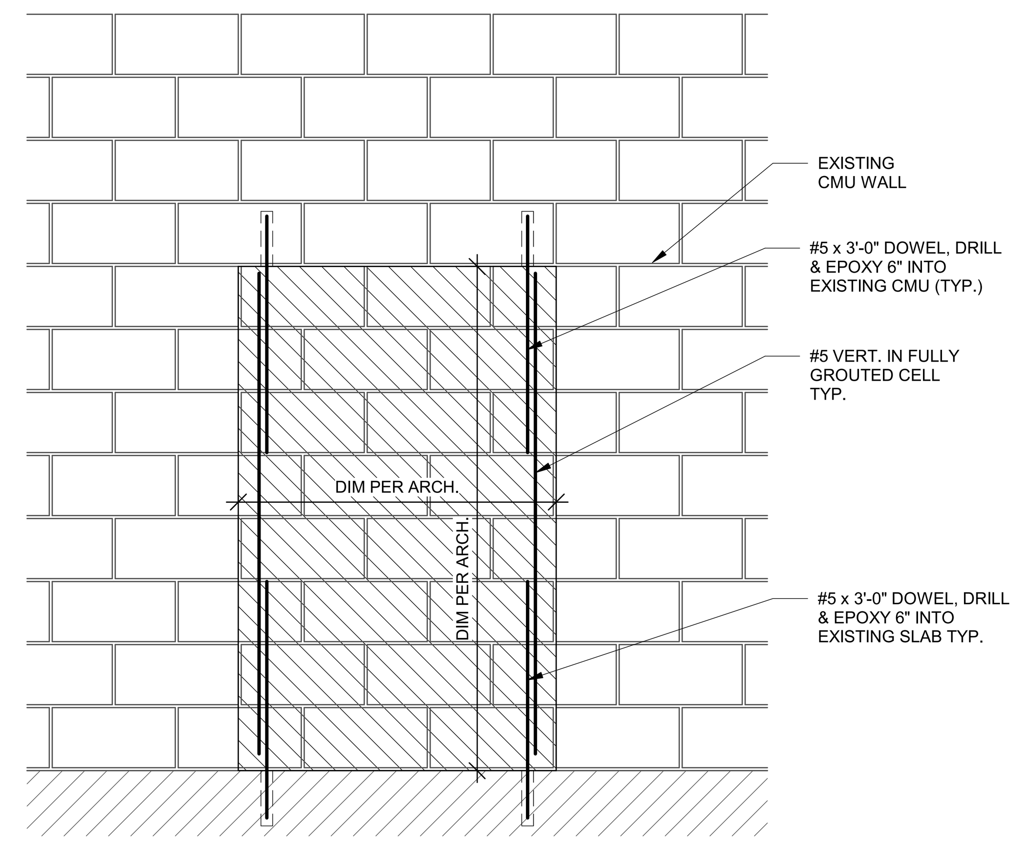
A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
B. The special inspector 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]

9. 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.



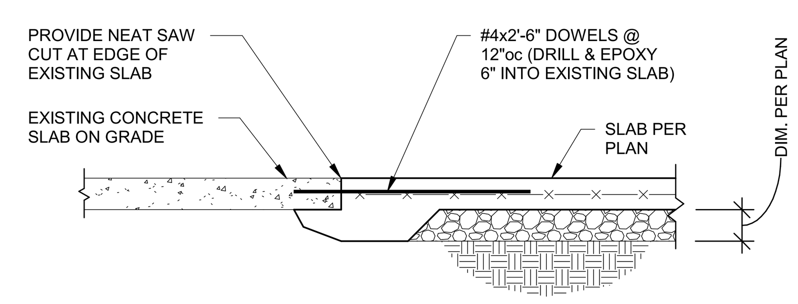
1 TYPICAL CMU WALL OPENING LINTEL DETAIL
1 1/2" = 1'-0"



2 INFILL OF EXISTING OPENING IN MASONRY WALL
3/4" = 1'-0"

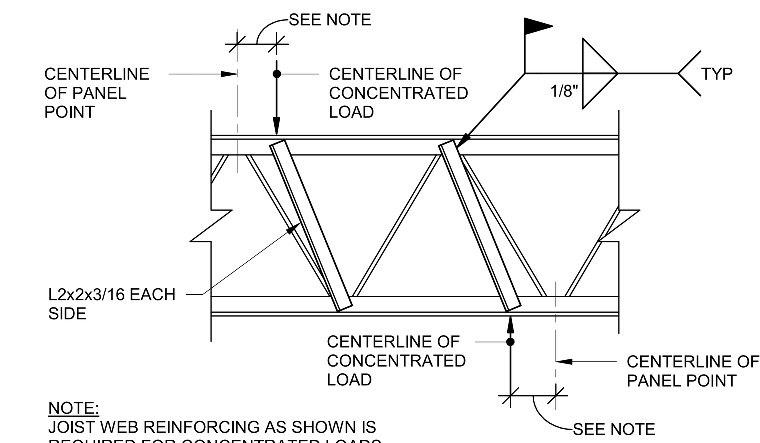
STRUCTURAL ABBREVIATIONS

@	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
B/	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				



TYPICAL AT NEW-TO-EXISTING SLAB ON GRADE

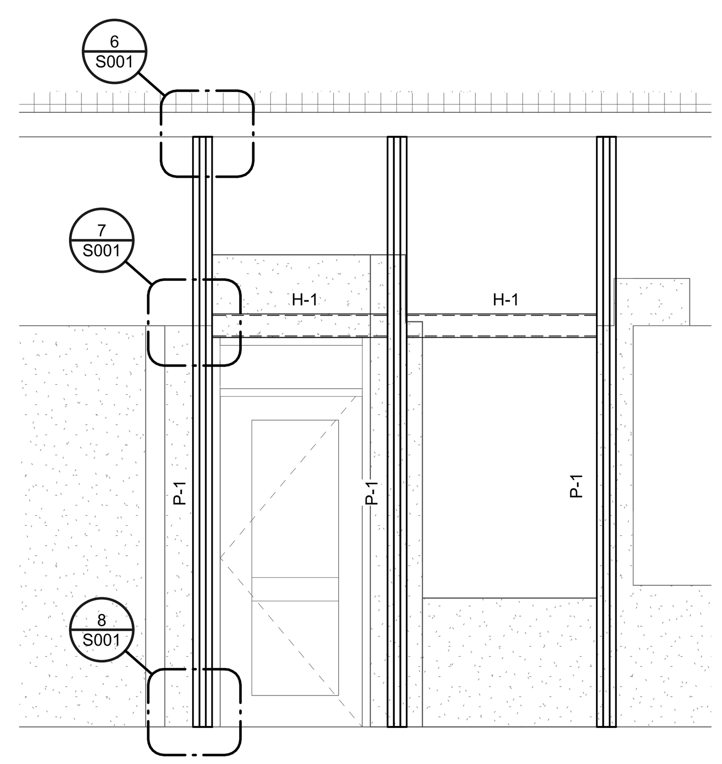
3 SECTION
3/4" = 1'-0"



NOTE:
JOIST WEB REINFORCING AS SHOWN IS REQUIRED FOR CONCENTRATED LOADS GREATER THAN 300 lbs LOCATED MORE THAN 3" FROM PANEL POINT CENTERLINE

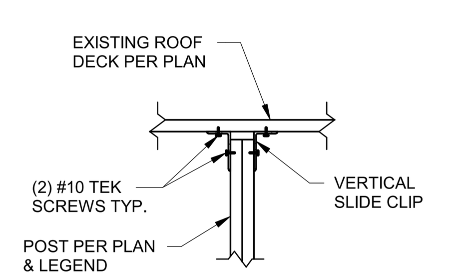
TYPICAL JOIST REINFORCING DETAIL

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

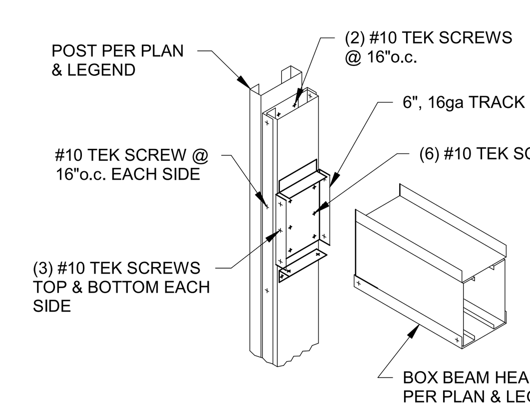


NOTE: REFER TO LEGEND ON SHEET S100C

5 ELEVATION
3/8" = 1'-0"

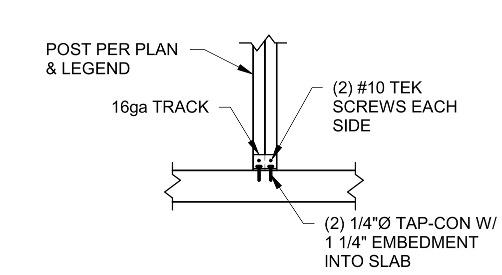


6 DETAIL
3/4" = 1'-0"



TYPICAL LIGHT GAGE HEADER DETAIL

7 DETAIL
1/2" = 1'-0"



8 DETAIL
3/4" = 1'-0"

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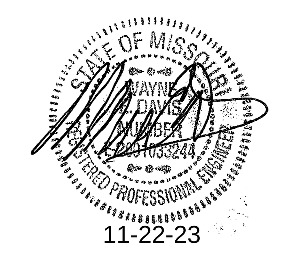
Olathe, KS 66061
913.345.2127 phone

100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date



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DATE: 11.22.2023

S001

GENERAL NOTES & DETIALS

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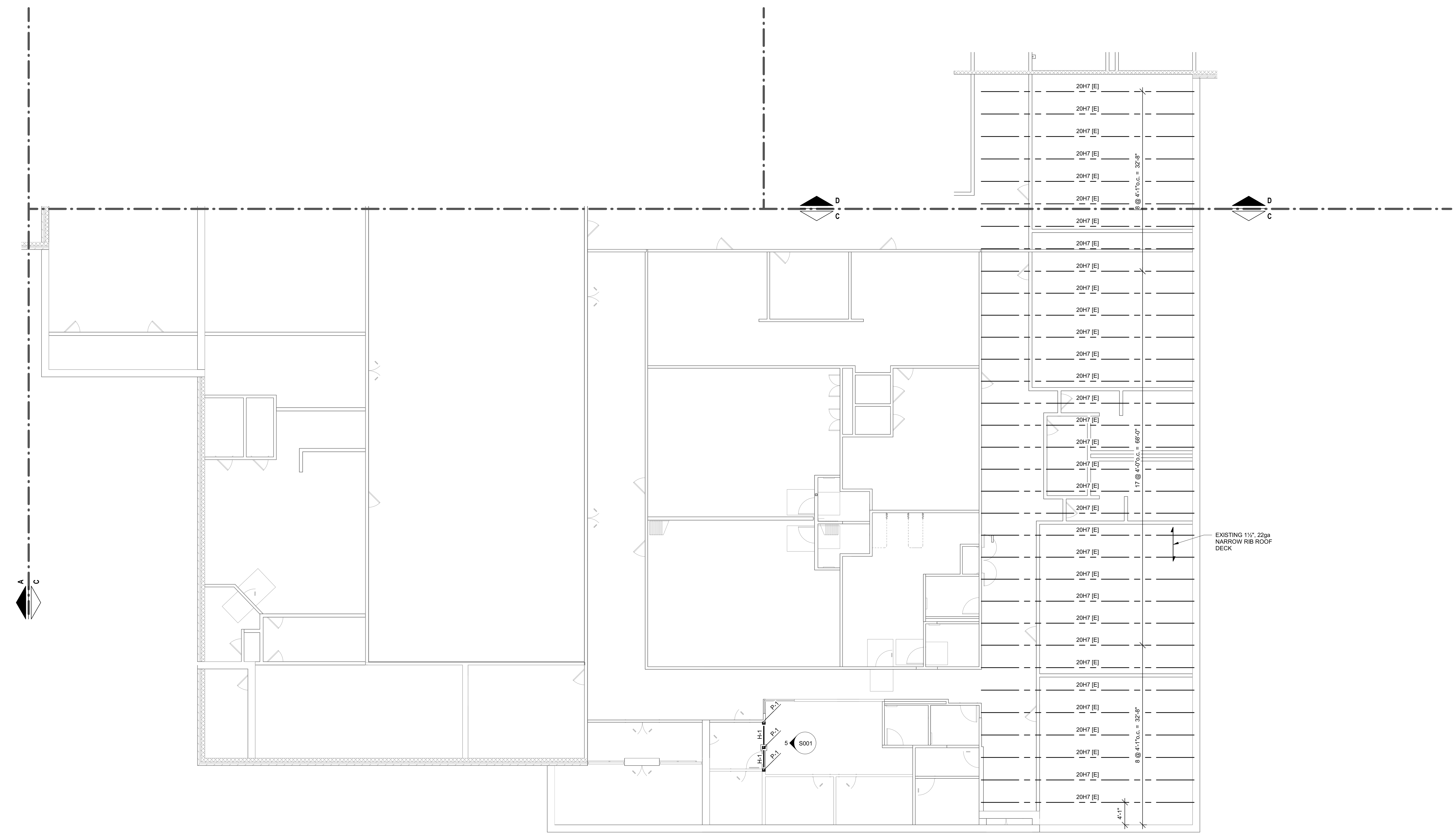
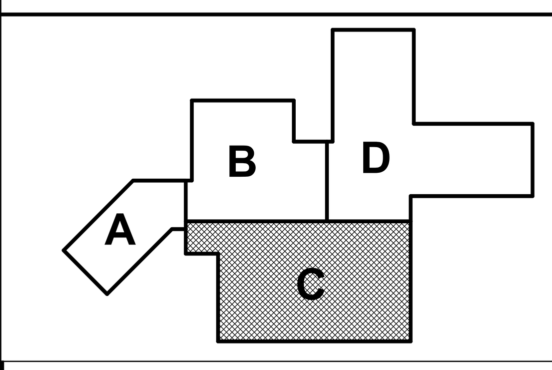


1 ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"

LEGEND
H-1 . . . . . . LIGHT GAGE BOX BEAM W/ (2) 6", 16ga METAL STUDS (1 5/8" FLANGE) AND 6", 16ga TRACK TOP & BOT.
P-1 . . . . . . LIGHT GAGE POST W/ (2) 6", 16ga METAL STUDS (1 5/8" FLANGE) AND (1) 6", 16ga TRACK
[E] . . . . . . INDICATES EXISTING STRUCTURAL MEMBER

KEY PLAN


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REVISIONS:

#	Description	Date

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S100C

FOUNDATION PLAN - AREA C

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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
- $ $3 $4 $K $LV $ 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
- IG DUPLEX RECEPTACLE WITH ISOLATED GROUND (SINGLE AND FOURPLEX SIMILAR)
- S DUPLEX RECEPTACLE – TOP HALF SWITCHED – BOTTOM HALF TO HAVE POWER AT ALL TIMES
- EM 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
- B BELL
- I INTERCOM OUTLET
- IM INTERCOM OUTLET – MASTER
- CD 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
- 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 U 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
- F BELL
- FL FIRE ALARM STROBE LIGHT
- F L FIRE ALARM SPEAKER – ARROWS DENOTE PROJECTORS IF ANY. ('L' DENOTES COMBINATION SPEAKER AND VISUAL FIRE LIGHT)
- L 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
- 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
- N2 NURSE CALL BEDSIDE STATION – DOUBLE PATIENT
- E P EMERGENCY PUSHBUTTON STATION ('P' DENOTES PULL CORD)
- DS DUTY STATION
- SS STAFF STATION
- B DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER)
- B 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

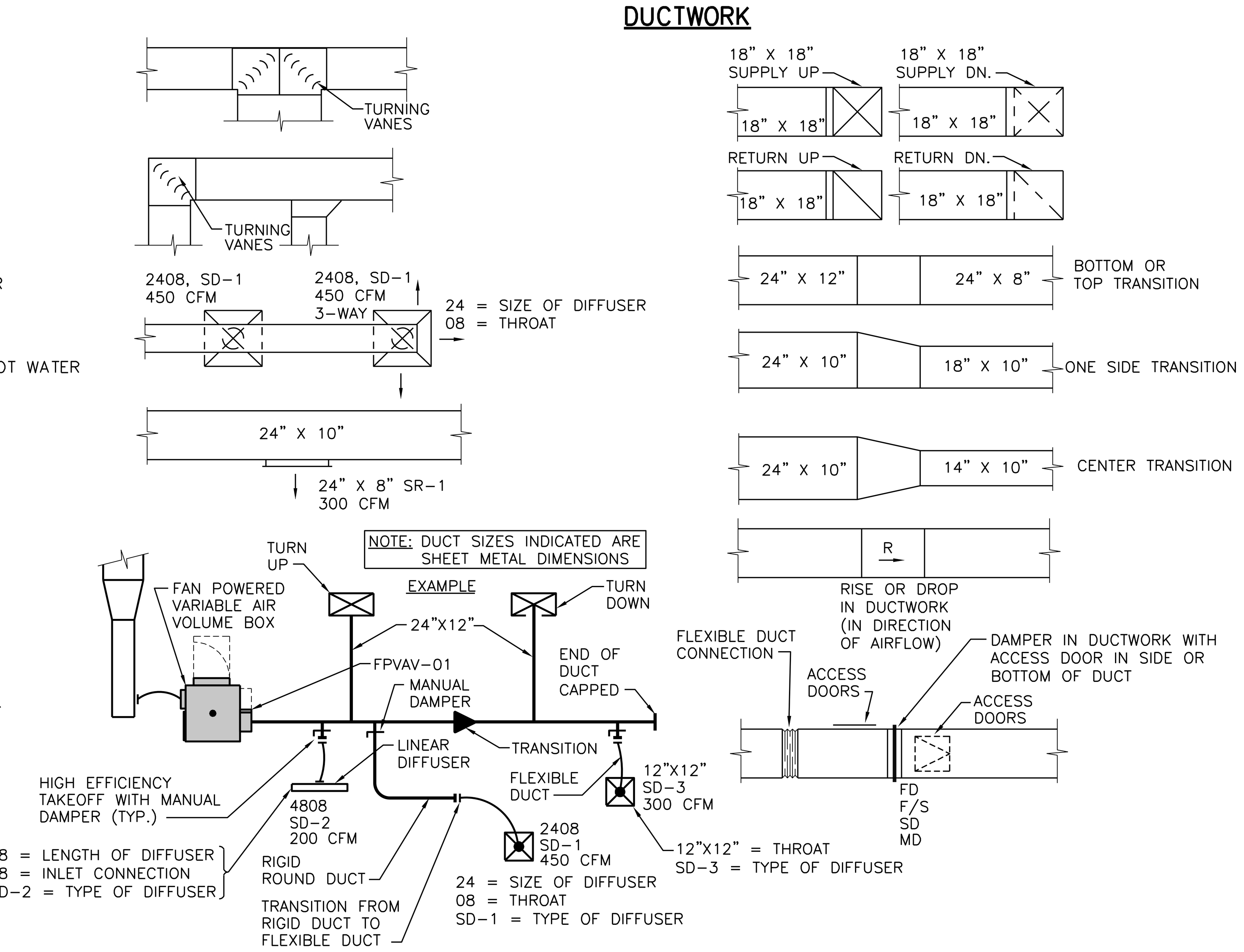
GENERAL

- 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.

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
- T 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

DUCTWORK



ABBREVIATIONS

A	AMPS, AIR (COMPRESSED)	DX	DIRECT EXPANSION	HTG	HEATING	MUAF	MAKE UP AIR FAN	SD	SUPPLY DIFFUSER, SMOKE DAMPER
A/C	AIR CONDITIONING	EA	EXHAUST AIR	HTR	HEATER	MV	MIXING VALVE	SDCW	SOFT DOMESTIC COLD WATER
AD	AREA DRAIN, ACCESS DOOR	EAT	ENTERING AIR TEMPERATURE	HVU	HEATING AND VENTILATING UNIT	N	NITROGEN	SDHW	SOFT DOMESTIC HOT WATER
AFC	ABOVE FINISH CEILING	EC	ELECTRICAL CONTRACTOR, EMPTY CONDUIT	HW	DOMESTIC HOT WATER	N/A	NOT APPLICABLE	SDRHW	SOFT DOMESTIC RECIRCULATION HOT WATER
AFG	ABOVE FINISH GRADE	EF	EXHAUST FAN	HWR	HOT WATER RETURN	N/C	NORMALLY CLOSED	SF	SQUARE FEET
AHU	AIR HANDLING UNIT	EM	INDICATES EMERGENCY CIRCUIT	HWS	HOT WATER SUPPLY	N/O	NORMALLY OPEN	SP	STATIC PRESSURE
AFF	ABOVE FINISHED FLOOR	EPO	EMERGENCY POWER OFF	IE	INVERT ELEVATION	NF	INDICATES NON-FUSED DEVICE	SR	SUPPLY REGISTER
BD	BACKDRAFT DAMPER, BLOWDOWN	ER	EXHAUST REGISTER	IG	ISOLATED GROUND	NIC	NOT IN CONTRACT	ST	STORM
BFP	BACKFLOW PREVENTER	ETR	EXISTING TO REMAIN	KCMIL	1000 CIRCULAR MILS	NL	NIGHT LIGHT	ST/O	STORM OVERFLOW
BKR	BREAKER	EWB	ENTERING WET BULB	KV	KILOVOLT	NO	NITROUS OXIDE	STM	LOW PRESSURE STEAM
BOD	BOTTOM OF DUCT	EWC	ELECTRIC WATER COOLER	KVA	KILOVOLT AMPS	OA	OUTSIDE AIR	SWBD	SWITCHBOARD
BOP	BOTTOM OF PIPE	EWH	ELECTRIC WATER HEATER, ELEC. WALL HTR.	KW	KILOWATT	ORD	OVERFLOW ROOF DRAIN	TSTAT	THERMOSTAT
BOS	BOTTOM OF STRUCTURE	EXH	EXHAUST	KWH	KILOWATT HOUR	OX	OXYGEN	TU	TERMINAL UNIT
BTU	BRITISH THERMAL UNIT	F/S	COMBINATION FIRE AND SMOKE DAMPER	LAT	LEAVING AIR TEMPERATURE	PD	PUMP DISCHARGE	TW	TEMPERED WATER
C	CONDUIT	FACP	FIRE ALARM CONTROL PANEL	LDB	LEAVING DRY BULB	PH	PHASE	UH	UNIT HEATER
CATV	CABLE TELEVISION SYSTEM	FAACP	FIRE ALARM ANNUNCIATOR CONTROL PANEL	LP	LIQUIFIED PETROLEUM	PIV	POST INDICATOR VALVE	UL	UNDERWRITERS LABORATORIES INC.
CB	CIRCUIT BREAKER	FCO	FLOOR CLEANOUT	LRA	LOCKED ROTOR AMPS	PNL	PANEL	UNO	UNLESS NOTED OTHERWISE
CCTV	CLOSED CIRCUIT TELEVISION	FCU	FAN COIL UNIT	LV	LOW VOLTAGE	PRV	PRESSURE REDUCING VALVE	UPS	UNINTERRUPTIBLE POWER SUPPLY
CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER, FLOOR DRAIN	LWB	LEAVING WET BULB	QTY	QUANTITY	V	VENT PIPE
CHWR	CHILLED/HOT WATER RETURN	FLA	FULL LOAD AMPS	LWT	LEAVING WATER TEMPERATURE	RA	RETURN AIR	VAC	MEDICAL VACUUM
CHWS	CHILLED/HOT WATER SUPPLY	FLR	FLOOR	MA	MEDICAL AIR	RD	ROOF DRAIN	VAV	VARIABLE AIR VOLUME
CKT	CIRCUIT	FOR	FUEL OIL RETURN	MAU	MAKE UP AIR UNIT	REV	REVISION	VD	VOLUME DAMPER
CO	CLEANOUT, CARBON MONOXIDE	FOS	FUEL OIL SUPPLY	MBH	1000 BTU PER HOUR	RG	RETURN GRILLE	VTR	VENT THROUGH ROOF
CO2	CARBON DIOXIDE	FP	FIRE PROTECTION	MC	MECHANICAL CONTRACTOR	RH	RELATIVE HUMIDITY	W	WIRE, WATT(S)
CTR	COOLING TOWER RETURN	FPB	FAN POWERED TERMINAL UNIT	MCA	MINIMUM CIRCUIT AMPACITY	RHW	DOMESTIC RECIRCULATION HOT WATER	W/	WITH
CTS	COOLING TOWER SUPPLY	FPVAV	FAN POWERED TERMINAL UNIT	MCC	MOTOR CONTROL CENTER	RL	REFRIGERANT LIQUID	W/O	WITHOUT
CU	COPPER, CONDENSING UNIT	FS	FLOOR SINK	MD	MOTORIZED DAMPER	RLA	RUNNING LOAD AMPS	WB	WET BULB
CUH	CABINET UNIT HEATER	G	GAS (NATURAL), GROUND	MDP	MAIN DISTRIBUTION PANEL	RPM	REVOLUTIONS PER MINUTE	WCO	WALL CLEANOUT
CW	DOMESTIC COLD WATER	GCO	GRADE CLEANOUT	MFR	MANUFACTURER	RS	REFRIGERANT SUCTION	WH	WALL HYDRANT
CWR	CHILLED WATER RETURN	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE	RTN	LOW PRESSURE CONDENSATE RETURN	WP	WEATHERPROOF
CWS	CHILLED WATER SUPPLY	GND	GROUND	MLO	MAIN LUGS ONLY	RTU	ROOF TOP UNIT	XFMR	TRANSFORMER
DDC	DIRECT DIGITAL CONTROL	GPM	GALLONS PER MINUTE	MTD	MOUNTED	SA	SUPPLY AIR	XP	EXPLOSION PROOF
DD	DECK DRAIN	HB	HOSE BIBB	MU	MAKE UP	SAN	SANITARY		
DN	DOWN	HOA	HAND OFF AUTOMATIC						

MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS

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Smith & Boucher
Mechanical, Electrical and Plumbing Engineers
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Olathe, KS 66061
913.345.2127 phone

100% Construction Documents

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
11/22/23

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JOB NO: 23028
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 11.22.2023

smith & boucher engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2314713

ME101

PROJECT NAME: 2314713 Liberty SD 2023 – Alexander Doniphan ES Renovations
AUTOCAD FILE LOCATION \ NAME: X:\23\23147\2314713\Drawings\01-2314713_ME101.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: PPatro Tuesday, September 5, 2023 3:57:13 PM
PLOTTED BY ◆ DATE ◆ TIME: Prasanta Patro Thursday, November 30, 2023 2:09:11 PM

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PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER/ MODEL	DESCRIPTION	MANUFACTURER/ MODEL	FITTINGS DESCRIPTION	PIPING CONNECTIONS				
					NOTES	CW	HW	SAN	VENT
WC-1	KOHLER KINGSTON K-4325 WADE	ADA WATER CLOSET: WHITE, SIPHON JET, LOW FLOW 1.28GPF, WALL HUNG, WHITE VITREOUS CHINA, FULLY GLAZED TRAPWAY, ELONGATED BOWL, TOP SPUD. INCLUDE WITH OPEN FRONT SEAT. CARRIER: PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION.	SLOAN G2 8111	ADA FLUSH VALVE: POLISHED CHROME FINISH, TOP SPUD, BATTERY POWERED SENSOR WITH MANUAL BUTTON, DIAPHROM OPERATED FLUSH VALVE. 1.28 GPF.	5	1-1/4"	---	4"	2"
WC-2	KOHLER KINGSTON K-25077-SS	ADA WATER CLOSET: WHITE, SIPHON JET, LOW FLOW 1.28GPF, FLOOR MOUNTED, WHITE VITREOUS CHINAGE, FULLY GLAZED TRAPWAY, ELONGATED BOWL, GRAVITY FLUSH, INCLUDE WITH OPEN FRONT SEAT.	---	---	3,5	3/4"	---	4"	2"
L-1	KOHLER GREENWICH K-2031	ADA COMPLIANT LAVATORY: WALL-HUNG, WHITE VITREOUS CHINA, LEDGE BACK, FRONT OVERFLOW, 4" CENTERS, CONCEALED SUPPORT ARMS.	SLOAN EBF650	LAVATORY FAUCET: SENSOR OPERATED, BATTERY POWERED, 4" CENTERS, CAST BRASS BODY, CHROME FINISH, 0.5 GPM. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVE.	1,2,3,4,6	1/2"	1/2"	2"	2"
S-1	JUST MANUFACTURING US-ADA-1824-A	SINK: ADA COMPLIANT, UNDERMOUNT, TYPE 304 STAINLESS STEEL, FULLY COATED SOUND INSULATION, SINGLE BOWL, INTERNAL BOWL DIMENSIONS 16"x22"x5-1/2", CENTER DRAIN.	MOEN CIA 7622	ADA COMPLIANT FAUCET: DUAL WRIST BLADE HANDLES, HIGH ARC KITCHEN FAUCET WITH PULLDOWN SPRAYER WITH CHROME FINISH. FURNISH AND INSTALL WITH AERATOR SET TO 1.5GPM.	1,2,3,4,6	1/2"	1/2"	2"	1-1/2"
S-2	JUST MANUFACTURING US-ADA-1824-A	SINK: ADA COMPLIANT, UNDERMOUNT, TYPE 304 STAINLESS STEEL, FULLY COATED SOUND INSULATION, SINGLE BOWL, INTERNAL BOWL DIMENSIONS 16"x22"x5-1/2", CENTER DRAIN.	MOEN CIA 7622 GUARDIAN GBF1849	ADA COMPLIANT FAUCET: DUAL WRIST BLADE HANDLES, HIGH ARC KITCHEN FAUCET WITH PULLDOWN SPRAYER WITH CHROME FINISH. FURNISH AND INSTALL WITH AERATOR SET TO 1.5GPM. ADA COMPLIANT EMERGENCY EYEWASH: DECK MOUNTED, 90° SWING DOWN ACTIVATION.	1,2,3,4,6	1/2"	1/2"	2"	1-1/2"
S-3	JUST MANUFACTURING US-ADA-1414-A	SINK: ADA COMPLIANT, UNDERMOUNT, TYPE 304 STAINLESS STEEL, FULLY COATED SOUND INSULATION, SINGLE BOWL, INTERNAL BOWL DIMENSIONS 12"x12"x5-3/8", CENTER DRAIN.	MOEN CIA 7622	ADA COMPLIANT FAUCET: DUAL WRIST BLADE HANDLES, HIGH ARC KITCHEN FAUCET WITH PULLDOWN SPRAYER WITH CHROME FINISH. FURNISH AND INSTALL WITH AERATOR SET TO 1.5GPM.	1,2,3,4,6	1/2"	1/2"	2"	1-1/2"
WMB-1	GUY GRAY MWB20	WASHING MACHINE CONNECTION BOX , REVERSIBLE DRAIN, WHITE POWDER COATED STEEL BOX AND FRAME, SINGLE LEVER HAMMER	---	---	---	1/2"	1/2"	2"	1-1/2"

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. IF EXPOSED, INSULATE TAILPIECE, P-TRAP, AND WATER RISERS PER ADA REQUIREMENTS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
5. PROVIDE CAULK AROUND FIXTURE CONNECTION TO FLOOR/WALL. COLOR BY ARCHITECT.
6. QUANTITY OF FAUCET HOLES SHALL MATCH FAUCET TYPE.

DUCTWORK SCHEDULE

SERVICE	DUCT MATERIAL	DUCT SHAPE	SMACNA REQUIREMENTS			OTHER REQUIREMENTS
			CLASSIFICATION	SEAL CLASS	LEAKAGE CLASS	
LOW PRESSURE SUPPLY AIR DUCTS CONNECTED DOWNSTREAM OF EQUIPMENT SUCH AS TERMINAL UNITS, FAN COIL UNITS, SINGLE ZONE RTU'S, 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
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

FAN SCHEDULE

DESIGNATION		EF-1	EF-2
SERVICE		RR C110	RR C107
MANUFACTURER		COOK	COOK
FAN TYPE		INLINE	INLINE
SERIES		GC-100	GC-100
MODEL		GC-146	GC-146
WEIGHT (LBS)		14	14
UNIT DATA	CFM	75	75
	STATIC PRESSURE	0.25	0.25
	FAN RPM	900	900
	BRAKE HORSEPOWER	34 W	34 W
	MOTOR HORSEPOWER	-	-
	DRIVE	DIRECT	DIRECT
	SONES	1.4	1.4
ELECTRL./CONTROL DATA	VOLTAGE/PHASE	120/1	120/1
	PANEL & CIRCUIT	NOTE 1	NOTE 1
	WIRE & CONDUIT	(2)#12,#12G,1/2"C.	(2)#12,#12G,1/2"C.
	OVERCURRENT DEVICE	-	-
	DISCONNECT	NOTE 1	NOTE 1
	COMBINATION STARTER	-	-
	CONTROL	RE:DWGS	RE:DWGS
	DAMPER TYPE	BACKDRAFT	BACKDRAFT
	DAMPER VOLTAGE	-	-
REFERENCE DRAWING/DETAIL		M101A	M101A
REMARKS		2	2

NOTES:
1: FAN TO BE CIRCUITED THROUGH AND CONTROLLED BY LIGHTING CIRCUIT. REFER TO LIGHTING PLANS FOR CIRCUITING AND SWITCH
2: PROVIDE WITH FAN SPEED CONTROLER.

PIPE INSULATION SCHEDULE - PLUMBING

SERVICE	PIPE SIZE	INSULATION
DOMESTIC COLD WATER	1/2" - 2"	1/2" FIBERGLASS, ASJ
DOMESTIC HOT WATER	ALL	1" FIBERGLASS, ASJ
EXPOSED FIXTURE WASTETRAPS AND DOMESTIC HOT AND COLD WATER AT ALL EXPOSED LOCATIONS SINKS AND LAVATORIES	ALL	TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER OVER 1/2" FIBERGLASS INSULATION

NOTES:
1: FOR ALL EXPOSED PIPING PROVIDE PAINTABLE PVC JACKET. (EXCLUDES MECHANICAL SPACES)

DUCTWORK INSULATION SCHEDULE

SERVICE	INSULATION
CONCEALED DUCTWORK AS FOLLOWS: ALL RECTANGULAR (NOTE 3) 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	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.
3: FIELD VERIFY EXISTING DUCTWORK INSULATION METHODS AND PROVIDE TO MATCH. (INCLUDE IN BID 1" LINEAR OR 1-1/2" WRAP)

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	COLOR	NOTES
SD-1	PRICE SPD	SUPPLY	SURFACE	YES	STEEL	WHITE	1
RG-1	PRICE 530	RETURN	SURFACE	NO	STEEL	WHITE	1
EG-1	PRICE 530	EXHAUST	SURFACE	YES	STEEL	WHITE	1

NOTES:
1: REFER TO PLANS FOR SIZES.

DRAIN SCHEDULE

MARK	MANUFACTURER/ MODEL	DESCRIPTION
FD-1	WADE W-1100-5	CAST IRON DRAIN WITH ADJUSTABLE TOP AND 5" NICKEL BRASS STRAINER WITH VANDAL RESISTANT SCREWS. SEE PLAN FOR OUTLET SIZE.

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	COLOR	NOTES
SD-1	PRICE SPD	SUPPLY	SURFACE	YES	STEEL	WHITE	1
RG-1	PRICE 530	RETURN	SURFACE	NO	STEEL	WHITE	1
EG-1	PRICE 530	EXHAUST	SURFACE	YES	STEEL	WHITE	1

NOTES:
1: REFER TO PLANS FOR SIZES.

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Structure # 2006031333

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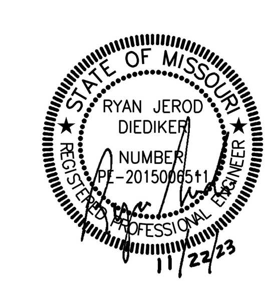

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ME301

MECHANICAL AND ELECTRICAL - SCHEDULES

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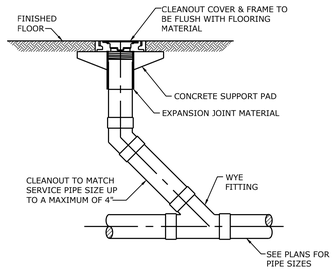
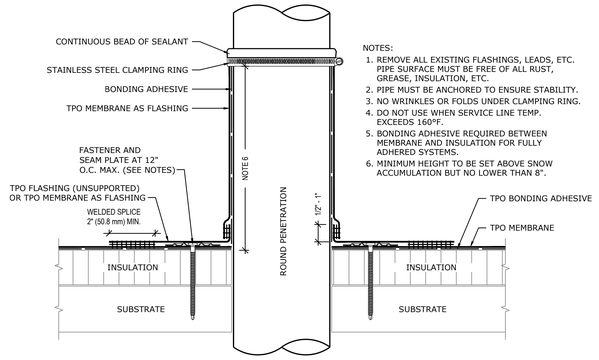
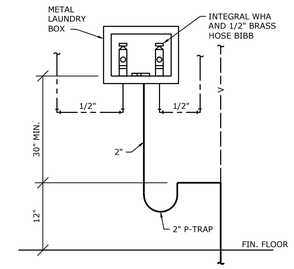


FINISH FLOOR CLEANOUT DETAIL
NO SCALE (JO. CO.)



NOTES:
1. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
2. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
3. NO WRINKLES OR FOLDS UNDER CLAMPING RING.
4. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
6. MINIMUM HEIGHT TO BE SET ABOVE SNOW ACCUMULATION BUT NO LOWER THAN 8".

ROOF PENETRATION DETAIL
NOT TO SCALE



WASHING MACHING CONNECTION DETAIL
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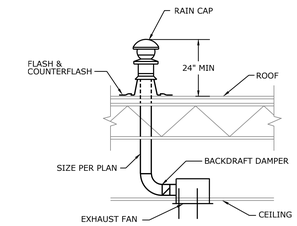
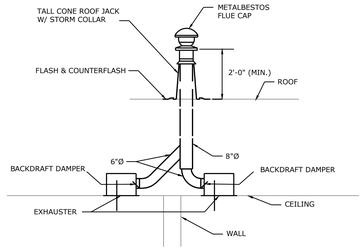
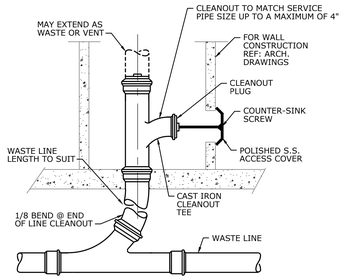


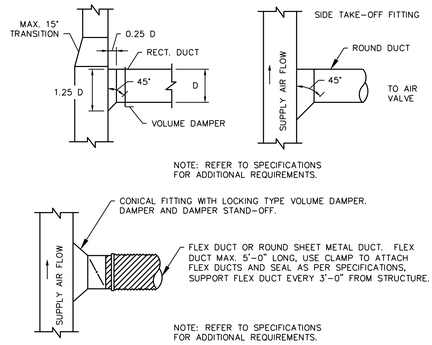
RESTROOM SINGLE EXHAUST DETAIL
NOT TO SCALE



DOUBLE TOILET ROOM EXHAUST DETAIL
NOT TO SCALE



WALL CLEANOUT
NOT TO SCALE



DUCT TAKE-OFF DETAIL
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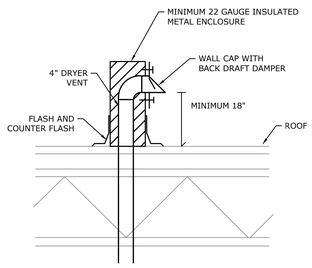

DRYER VENT DETAIL
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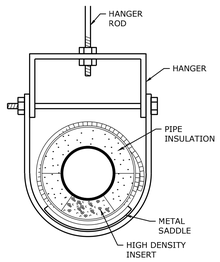
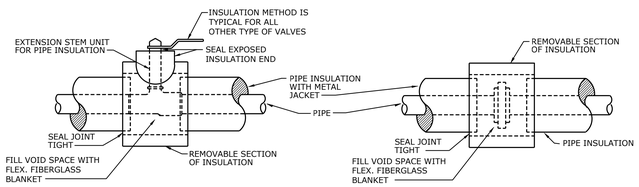
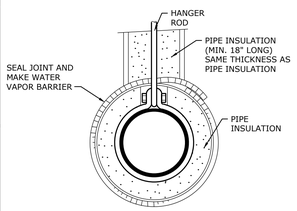


CLEVIS HANGERS

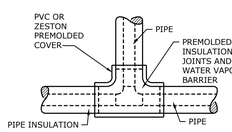


BALL VALVE

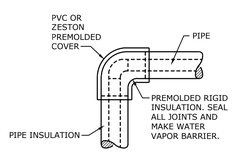
UNION



SLIP RING HANGERS
(HOT SERVICES ONLY)

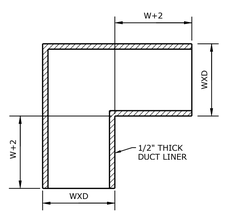


BRANCH CONNECTION



ELBOWS

PIPE INSULATION DETAILS
NOT TO SCALE



AIR TRANSFER BOOT DETAIL
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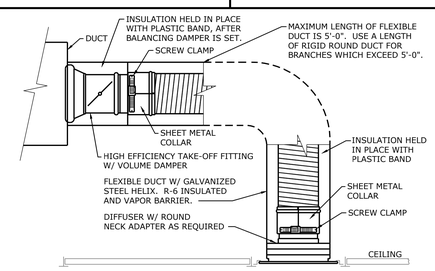

FLEXIBLE BRANCH DUCT DETAIL
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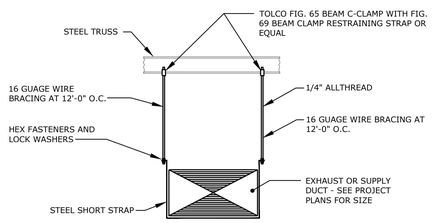
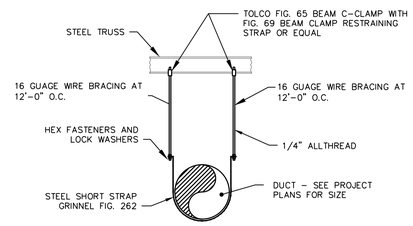


SQUARE DUCT SUPPORT DETAIL
NOT TO SCALE



ROUND DUCT SUPPORT DETAIL
NOT TO SCALE

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ME401

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project number 2314713

MECHANICAL AND ELECTRICAL - DETAILS

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2314713 Liberty SD 2023 ⊃ Alexander Doniphan ES Renovations
P:\2023\23147\2314713 Liberty SD 2023 ⊃ Alexander Doniphan ES Renovations ME401.dwg
Wednesday, September 6, 2023 9:07:56 AM
Thursday, November 30, 2023 2:08:30 PM
Pedro Prasanna Patro
PROJECT NAME:
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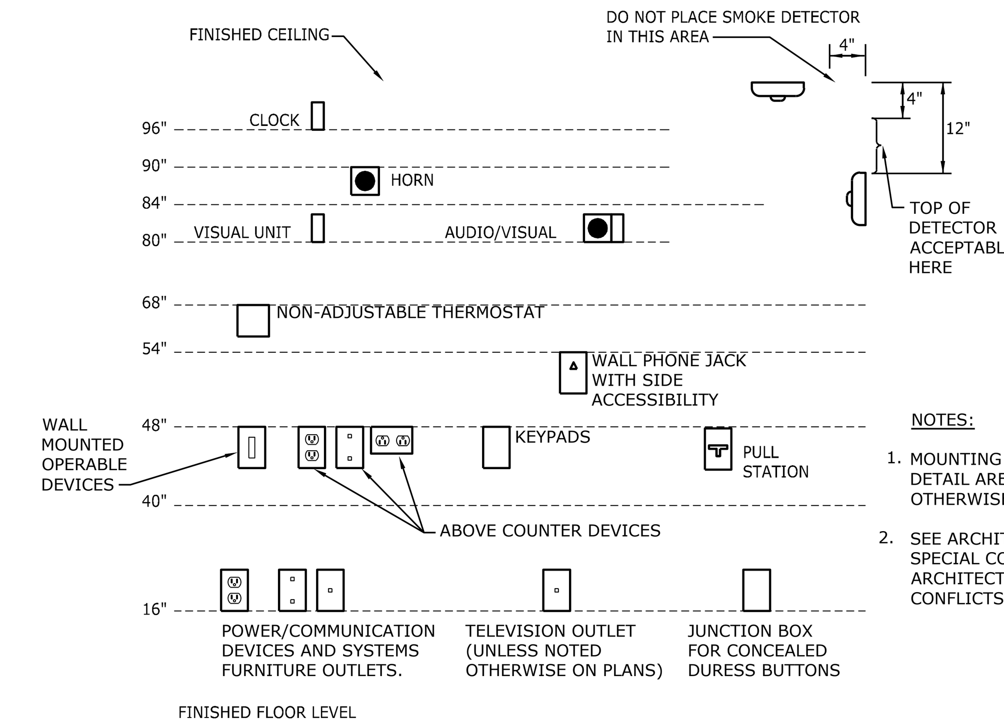

NOTES:

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.

VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICES) DEVICE 80" ABOVE HIGHEST FLOOR LEVEL OR 6" BELOW CEILING WHICH EVER IS LOWER (ADA 1993). BOTTOM OF DEVICE 80" AFF (NFPA).

AUDIO UNIT (FIRE ALARM NOTIFICATION DEVICE) TOP OF UNIT AT LEAST 90" AFF OR 6" BELOW CEILING WHICH EVER IS LOWER (NFPA).

AUDIO/VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICE) LOCATION DETERMINED BY VISUAL UNIT REQUIREMENTS (NFPA).

PULL STATION (FIRE ALARM ACTIVATION DEVICE) HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) ADA 1993. OPERABLE PART (T-HANDLE) SHALL BE NOT LESS THAN 42" AFF (NFPA).

WALL MOUNTED OPERABLE DEVICES

OPERABLE DEVICES SHALL BE LOCATED 48" AFF. TO THE TOP OF OPERABLE PORTION OF DEVICE. WALL MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- ADJUSTABLE THERMOSTATS.
- LIGHTING SWITCHES/DIMMERS/CONTROLS
- PUSH BUTTONS
- OTHER CONTROL OR "CALL" DEVICES

POWER/COMMUNICATION DEVICES:

OUTLETS SHALL BE LOCATED 16" AFF TO THE BOTTOM OF THE BOX. "ABOVE COUNTER" DEVICES SHALL BE LOCATED AT 48" TO THE TOP, OR 2" ABOVE BACKSPLASH TO THE BOTTOM OF THE BOX WHEN LOCATED ABOVE FIXED CASEWORK. (PLAN DESIGNATION). VERIFY W/ ARCHITECTURAL DETAILS. VERTICAL ORIENTATION IS STANDARD, UNLESS SPECIFIED OTHERWISE ON PLAN.

WALL MOUNTED DEVICES: MOUNTING HEIGHTS

NO SCALE

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100% Construction Documents

A. Doniphan Elementary School

Liberty Public Schools

1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER PE-2015006511
REGISTERED PROFESSIONAL ENGINEER
11/22/23

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project number 2314713

ME402

MECHANICAL AND ELECTRICAL - DETAILS

PROJECT NAME: 2314713 Liberty SD 2023 - Alexander Doniphan ES Renovations
AUTOCAD FILE LOCATION \ NAME: X:\23\23147\2314713\Drawings\01-2314713_ME402.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Kmcvey Wednesday, October 18, 2023 1:18:07 PM
PLOTTED BY ◆ DATE ◆ TIME: Prasanta Patro Thursday, November 30, 2023 2:08:20 PM

Please consider the environment before printing this.

SHEET KEYNOTE LEGEND

GENERAL NOTES:

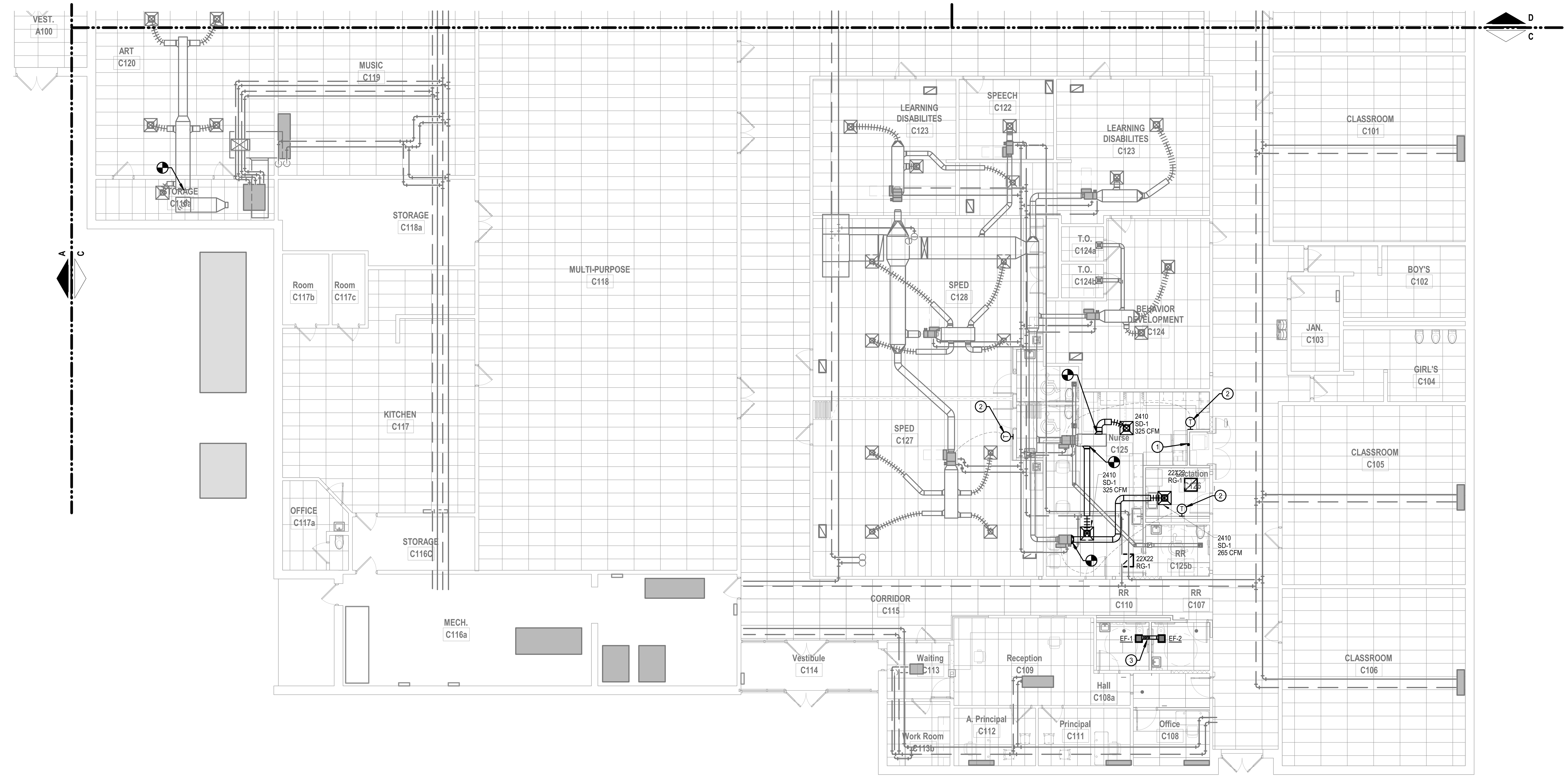
1. REFER TO SHEET M101 FOR MECHANICAL GENERAL NOTES.

PLAN NOTES:

(1) 4"ø DRYER EXHAUST DOWN TO DRYER AND UP THRU ROOF.

(2) INSTALL SALVAGED THERMOSTAT IN LOCATION SHOWN.

(3) 8"ø EXHAUST DUCT UP THRU ROOF.



A1 | Scale 1/8" = 1'-0" | HVAC PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

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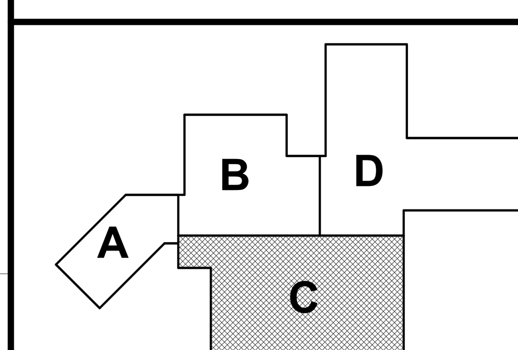
KEY PLAN



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M101C

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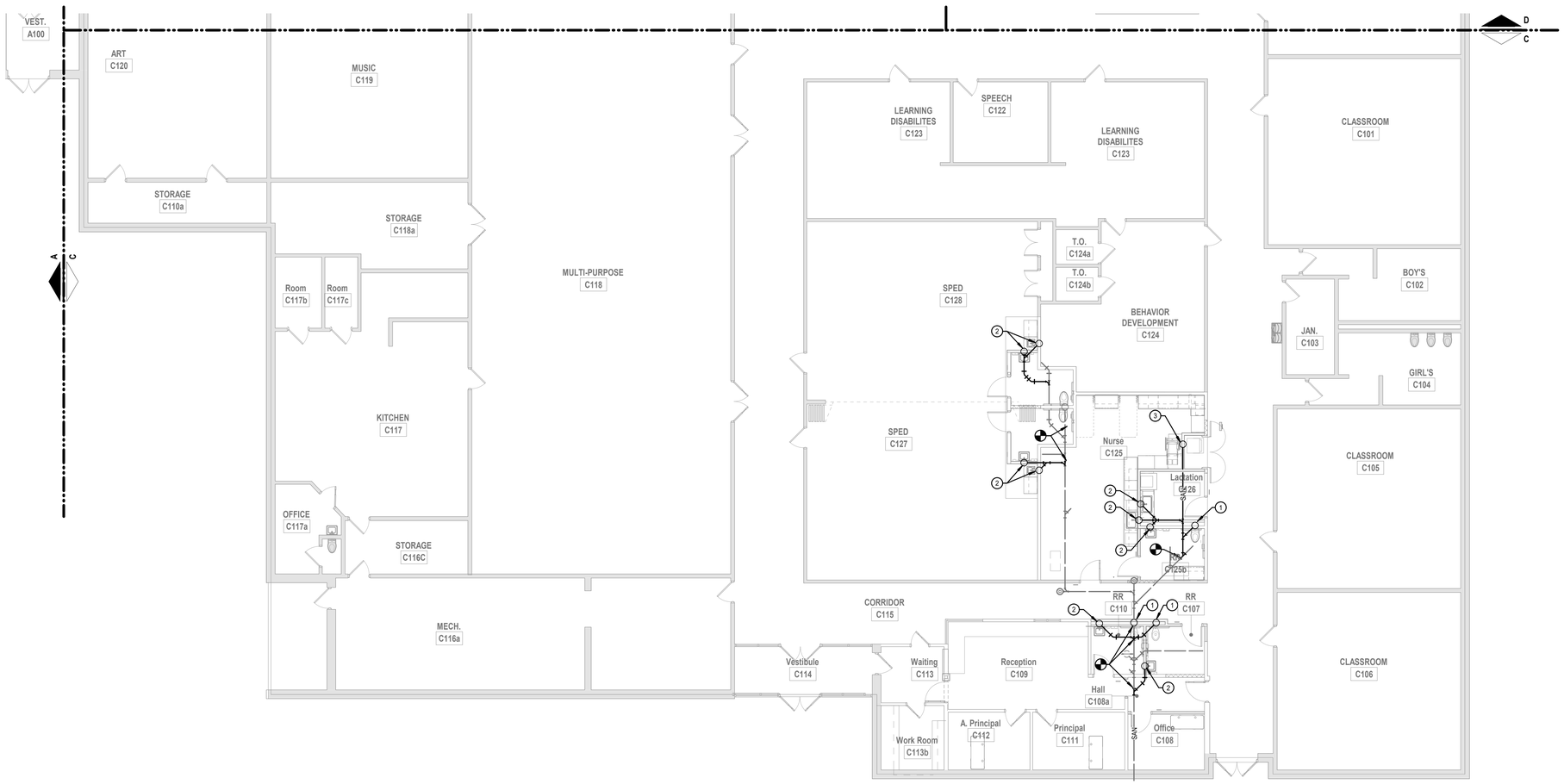

SHEET KEYNOTE LEGEND

PLAN NOTES:

1. 4" SAN UP TO WATER CLOSET.
2. 2" SAN UP TO LAVATORY/SINK.
3. 2" SAN UP TO WASHING MACHINE BOX.

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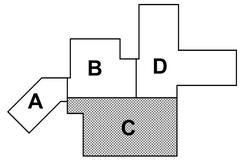

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P100C

A1 Scale 1/8" = 1'-0"

UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

UNDERSLAB PLUMBING PLAN - LEVEL 1 - AREA C

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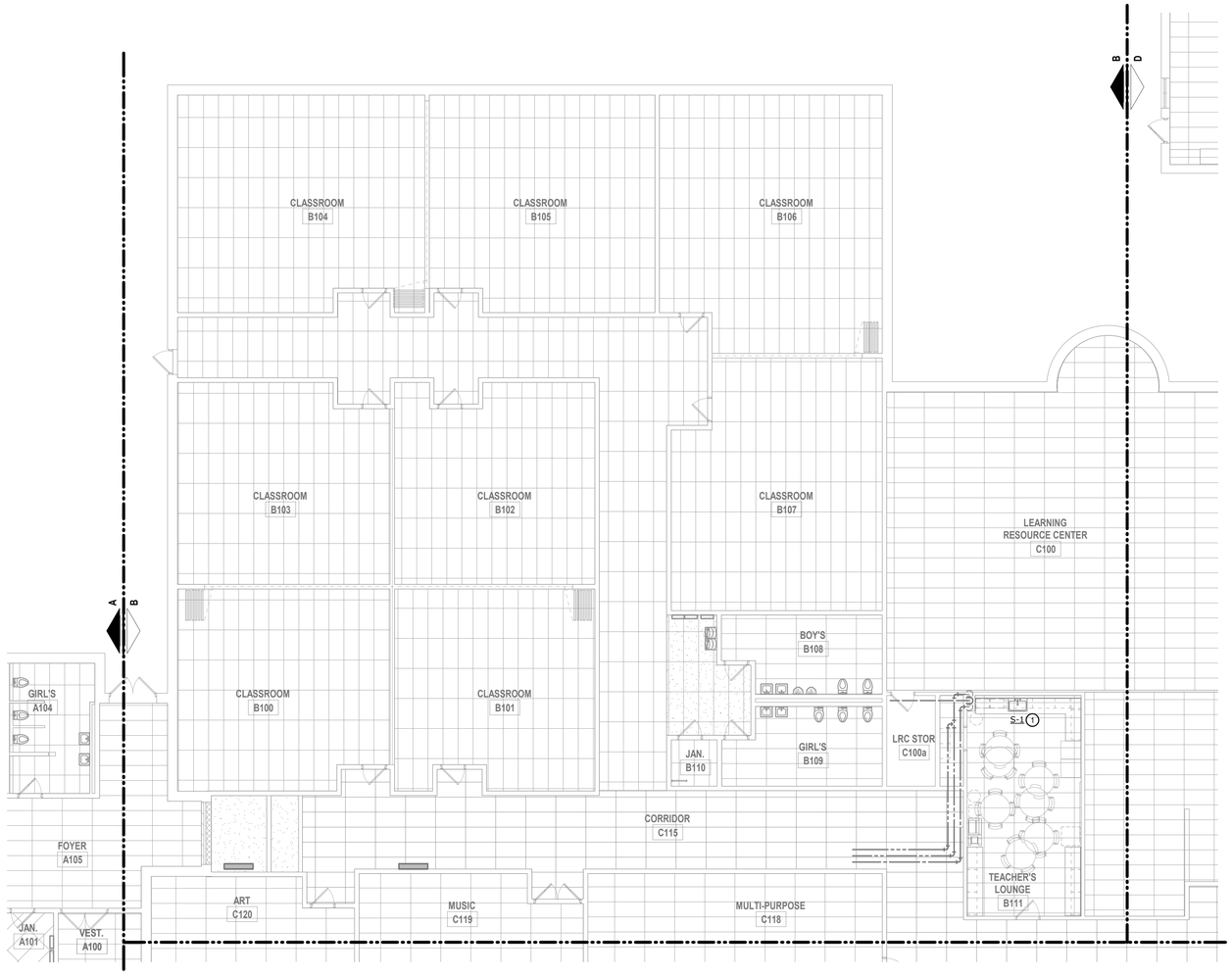

SHEET KEYNOTE LEGEND

PLAN NOTES:

1. INSTALL NEW SINK IN LOCATION SHOWN. EXTEND AND CONNECT EXISTING PLUMBING PIPING THROUGH CASEWORK TO NEW SINK LOCATION.

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STATE OF MISSOURI
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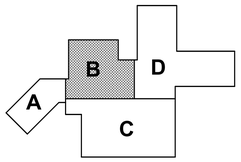
11/22/23

KEY PLAN



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P101B

A1 | Scale 1/8" = 1'-0" | PLUMBING PLAN - LEVEL 1 - AREA B

8' 4' 0' 8'

PLUMBING PLAN - LEVEL 1 - AREA B

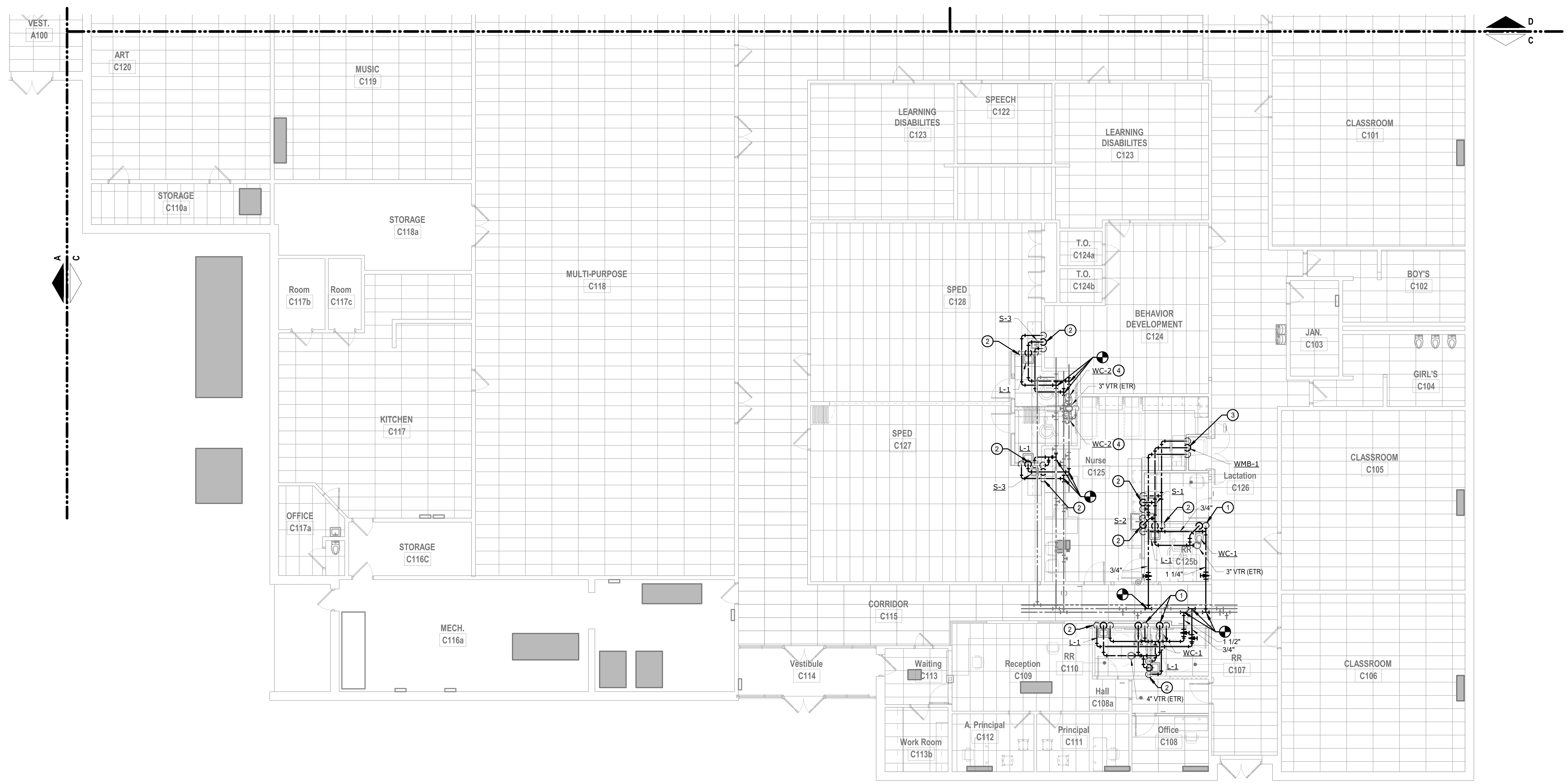
Please consider the environment before printing this.

11/30/2023 2:06:31 PM

SHEET KEYNOTE LEGEND

PLAN NOTES:

1. 1-1/4" CW AND 2" V DOWN TO WATER CLOSET.
2. 1/2" CW, 1/2" HW, AND 1-1/2" V DOWN TO LAVATORY/SINK.
3. 1/2" CW, 1/2" HW, AND 1-1/2" V DOWN TO WASHING MACHINE BOX.
4. INSTALL NEW WATER CLOSET IN SAME LOCATION AS DEMOLISHED WATER CLOSET. CONNECT EXISTING PLUMBING PIPING TO NEW WATER CLOSET.



A1 Scale 1/8" = 1'-0" PLUMBING PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

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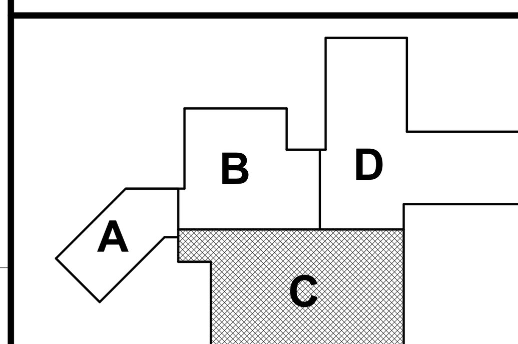
KEY PLAN



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PLUMBING PLAN - LEVEL 1 - AREA C

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LIGHT FIXTURES TO BE A ONE FOR ONE REPLACEMENT OF EXISTING FLUORESCENT FIXTURES. CONNECT NEW FIXTURES TO EXISTING LIGHTING CONTROLS AND CIRCUIT UNLESS NOTED OTHERWISE.

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. FOR DIAMOND PLAN NOTES REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E301 FOR ADDITIONAL INFORMATION.
2. FURNISH AND INSTALL ALL REQUIRED LOW VOLTAGE CONTROL WIRING BETWEEN OCCUPANCY SENSORS, POWER PACKS, WALL SWITCHES, ROOM CONTROLLERS, ETC. WITHIN EACH SPACE AS REQUIRED.
3. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

   0'-100' = #12 AWG
   101'-150' = #10 AWG
   151'-250' = #8 AWG
   251'-400' = #6 AWG

   GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.
4. 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 IS DEFINED AS ANY CONDUIT NOT CONCEALED WITHIN WALLS OR ABOVE EITHER A LAY-IN CEILING OR HARD LID CEILING. ALL SURFACE CONDUIT AND/OR PAINTABLE SURFACE RACEWAY TO BE PAINTED TO MATCH THE WALL SURFACE IT IS MOUNTED TO.
5. REFER TO ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF ALL WALL MOUNTED ELECTRICAL DEVICES.
6. ALL EMERGENCY JUNCTION BOXES AND RACEWAY MUST BE MARKED WITH PERMANENT RED "EMERGENCY" SYSTEM (NEC 700.10), INSTALL ON EACH JUNCTION BOX COVER AND ON RACEWAY AT INTERVALS NOT 25'-0". RACEWAYS WITHIN WALLS, BELOW SLABS, AND ABOVE NON-ACCESSIBLE CEILING AREAS DO NOT NEED TO BE MARKED.
7. CIRCUIT ALL EMERGENCY BATTERY DRIVERS AND FIXTURE TYPE "E" AND "X" WITH AN UNSWITCHED HOT CONDUCTOR.
8. CONNECT ALL TYPE "E" AND "X" FIXTURES TO ADDOCIATED ROOM LIGHTING CIRCUIT.
9. NEW PANEL LOADING HAS BEEN MADE CONSERVATIVELY IN ORDER TO AVOID OVERLOADING A PANEL OR ITS UPSTREAM PANELS AND FEEDERS. IF A PANEL IS FOUDN TO BE OVERLOADED OR NEAR FULLY LOADED DURING NEW LOAD CONNECTION AND PHASE BALANCING, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR ALTERNATIVE CIRCUITING.

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project number 2314713

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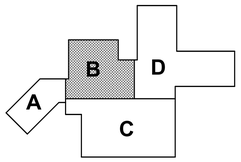

JOB NO:	23028
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DATE:	11.22.2023

E101B

A1 | Scale 1/8" = 1'-0" | LIGHTING PLAN - LEVEL 1 - AREA B

8' 4' 0' 8'

LIGHTING PLAN - LEVEL 1 - AREA B

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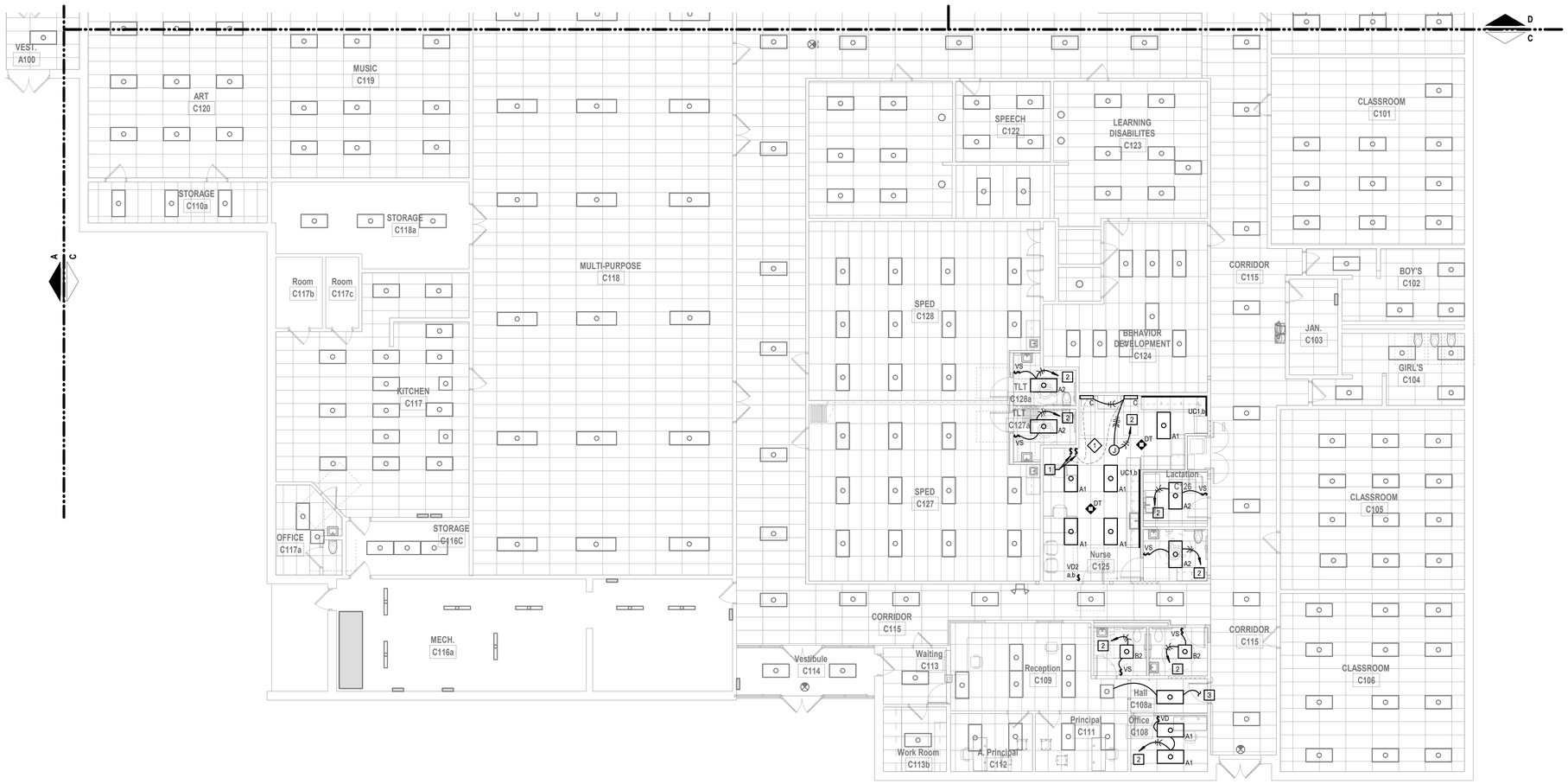

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO SHEET E101B FOR ADDITIONAL INFORMATION.

PLAN NOTES:

1. MANUAL OVERRIDE SWITCH FOR TYPE 'C' FIXTURE ABOVE NURSE BED.
2. NEW LIGHT FIXTURES IN THIS SPACE TO BE CONNECTED TO EXISTING CIRCUIT SERVING PREVIOUS FIXTURES. CONNECT TO NEW CONTROLS.
3. TIE NEW LIGHT TO EXISTING ELECTRICAL CIRCUIT AND CONTROLS.

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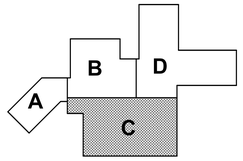

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E101C

A1 | Scale 1/8" = 1'-0" | LIGHTING PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

LIGHTING PLAN - LEVEL 1 - AREA C

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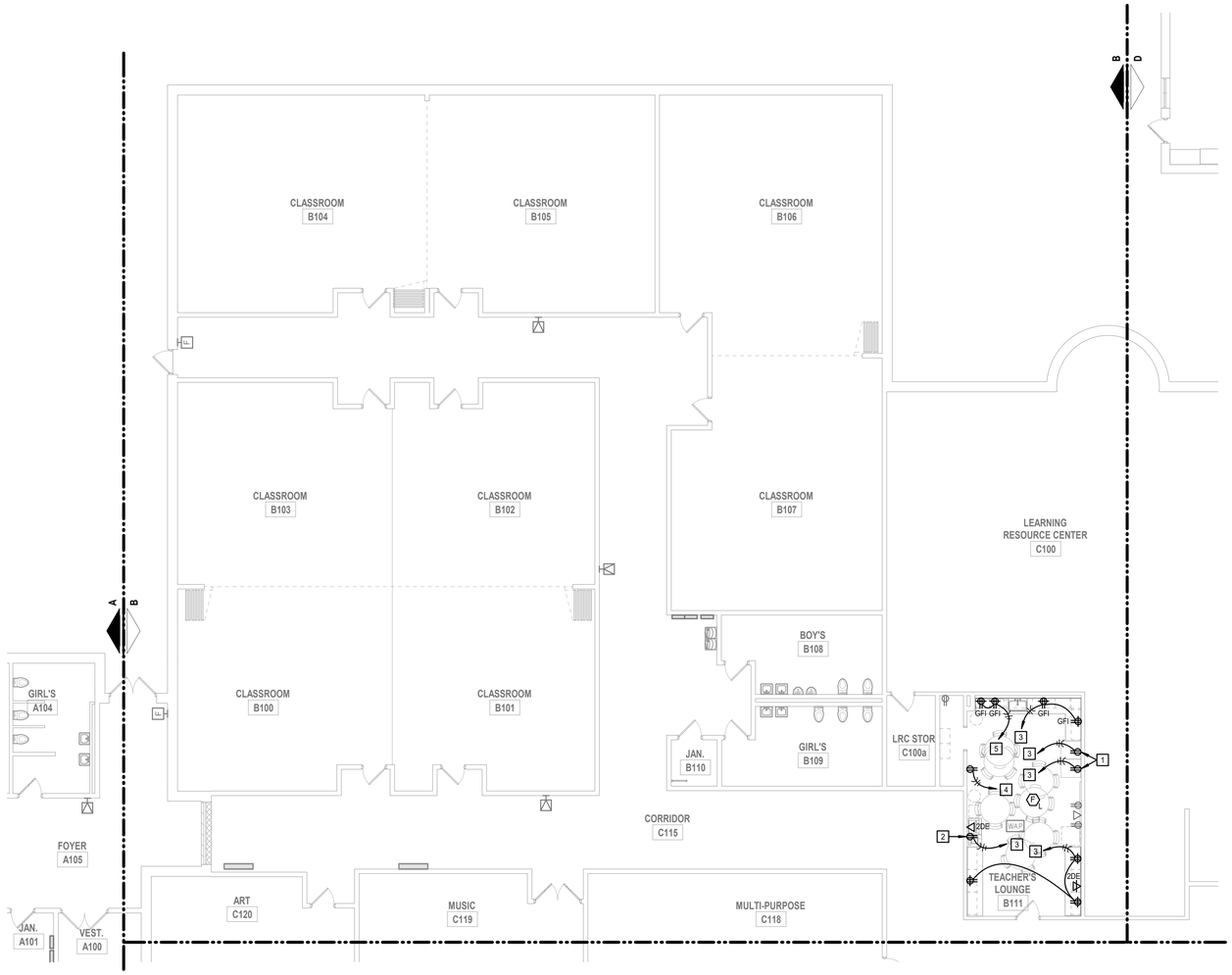

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO SHEET E101B FOR ADDITIONAL INFORMATION.

PLAN NOTES:

1. DEDICATED RECEPTACLE FOR OWNER PROVIDED REFRIGERATOR. COORDINATE EXACT MOUTNING LOACTION WITH ARCHITECT. CIRCUIT WITH 20A/1P BREAKER WITH GFI PROTECTION.
2. DEDICATED RECEPTACLE FOR PRINTER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH IN.
3. CONNECT NEW DEVICES TP EXISTING CIRCUIT(S) SERVING ROOM.
4. DEDICATED RECEPTACLE FOR LAMINATOR. COORDINATE REQUIREMENTS WITH PROJECT SEPCIFIC EQUIPMENT. CONNECT TO EXISTING CIRCUIT(S) SERVING ROOM.
5. RECEPTACLES TO SERVE BREAK ROOM MICROWAVES. CONNECT TO EXISTING CIRCUIT(S) SERVING ROOM.

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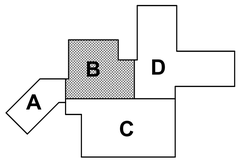

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E201B

A1 | Scale 1/8" = 1'-0" | POWER PLAN - LEVEL 1 - AREA B

8' 4' 0' 8'

POWER PLAN - LEVEL 1 - AREA B

11/30/2023 2:05:52 PM

Please consider the environment before printing this.

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO SHEET E101B FOR ADDITIONAL INFORMATION.

PLAN NOTES:

1. DEDICATED POWER FOR UNDER COUNTER REFRIGERATOR. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT AND PROJECT SPECIFIC EQUIPMENT. CONNECT NEW LOAD TO EXISTING ELECTRICAL PANEL FEEDING THE ROOM. PROVIDE CIRCUIT BREAKER WITH GFI PROTECTION.
2. PROVIDE SPECIAL RECEPTACLE FOR STACKED WASHER/DRYER UNIT. CONNECT TO EXISTING CIRCUIT IN ROOM. COORDINATE EXACT REQUIREMENTS WITH PROJECT SPECIFIC EQUIPMENT.
3. CONNECT NEW DEVICES TO EXISTING CIRCUIT(S) SERVING ROOM.
4. EXISTING PLUG MOLD SYSTEM TO REMAIN.
5. ELECTRIC DOOR LOCK LOCATION. PROVIDE CONTROL CABLING PER SPECIFICATIONS. ROUTE BACK TO DOOR CONTROL HEAD END PANEL. COORDINATE EXACT REQUIREMENTS WITH OWNER AND ARCHITECT.
6. CARD READER MOUNTED AT 48" AFF. ROUTE IN 1 1/4" CONDUIT. COORDINATE PATHWAY WITH DOOR HARDWARE PROVIDER.
7. EXISTING WIRELESS ACCESS POINT TO BE REINSTALLED.
8. CONNECT NEW FIRE ALARM CONTROL PANEL TO 20A/1P CIRCUIT SERVING PREVIOUS FACP.

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100% CONSTRUCTION DOCUMENTS

A. Doniphan Elementary School

Liberty Public Schools

1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

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project number 2314713

STATE OF MISSOURI
RYAN JEROD DIEDIKER
NUMBER 2015004541
PROFESSIONAL ENGINEER
11/29/23

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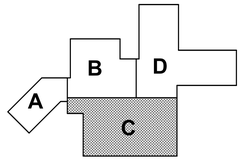
KEY PLAN



JOB NO:	23028
DRAWN BY:	SBI
CHECKED BY:	RJD
DATE:	11.22.2023

E201C

A1 | Scale 1/8" = 1'-0" | POWER PLAN - LEVEL 1 - AREA C

8' 4' 0' 8'

POWER PLAN - LEVEL 1 - AREA C

11/30/2023 2:06:03 PM

Please consider the environment before printing this.

LIGHTING CONTROL REQUIREMENTS & DESCRIPTIONS - PER SPACE TYPE

TYPE	LIGHTING CONTROL REQUIREMENTS FOR SPACE
1 (diamond)	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).

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.
NOTE 9: ANY CATEGORY CABLING USED FOR LIGHTING CONTROLS MUST BE OF A SPECIAL COLOR AND NOT BE THE SAME COLOR AS ANY OTHER LOW VOLTAGE SYSTEM IN THE BUILDING. SUCH AS DATA TELEPHONE, SECURITY, ETC. COORDINATE COLOR NEEDED DURING SHOP DRAWING SUBMITTAL PROCESS, DO NOT ASSUME THE STANDARD COLOR FROM THE MANUFACTURER CAN BE USED.

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
$	MANUAL OVERRIDE SWITCH	-	-	PER SUBMITTAL	1
$\$_{LD\#}$	WALL MOUNTED LIGHTING SYSTEM DIMMER SWITCH # INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION	-	-	PER SUBMITTAL	1,2
DT	CEILING MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR	DUAL TECHNOLOGY	-	PER SUBMITTAL	1,3,4

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.

TELECOMMUNCATION DEVICE SCHEDULE

SYMBOL	DESCRIPTION (NOTE 1)
#D #DA	WALL MOUNTED DATA OUTLET (#D) DATA CAT6 JACKS AS NOTED ON PLANS (#DA) DATA CAT6A JACKS AS NOTED ON PLANS
#DE #DAE	WALL MOUNTED DATA OUTLET (#DE) EXISTING CAT6 CABLE DROP TO BE TERMINATED IN NEW JACKS AS NOTED ON PLANS (#DAE) EXISTING CAT6A CABLE DROP TO BE TERMINATED IN NEW JACKS AS NOTED ON PLANS
WAP #D #DA	WIRELESS ACCESS POINT DATA OUTLET (#D) DATA CAT6 JACKS AS NOTED ON PLANS (#DA) DATA CAT6A JACKS AS NOTED ON PLANS
WAP #DE #DAE	WIRELESS ACCESS POINT DATA OUTLET (#D) EXISTING DATA CAT6 DROP AS NOTED ON PLANS (#DA) EXISTING DATA CAT6A DROP AS NOTED ON PLANS
#D #DA	DATA OUTLET FOR IN FLOOR BOX/POKE THRU (#D) DATA CAT6 JACKS AS NOTED ON PLANS (#DA) DATA CAT6A JACKS AS NOTED ON PLANS

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.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	SOURCE	VOLTS	MANUFACTURER	V-A
A1 A1X	2'-0"X4'-0" RECESSED TOP LIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE OUTPUT AND CCT. (X): PROVIDE WITH INTEGRAL 90 MINUTE (UL924) BATTERY PACK.	RECESSED GRID	LED 4500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX KEYSTONE XFIT SIGNIFY FLUXPANEL	40
A2 A2X	2'-0"X4'-0" RECESSED TOP LIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE OUTPUT AND CCT. (X): PROVIDE WITH INTEGRAL 90 MINUTE (UL924) BATTERY PACK.	RECESSED GRID	LED 3500 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX KEYSTONE XFIT SIGNIFY FLUXPANEL	30
B1	2'-0" X 2'-0" RECESSED TOP LIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE OUTPUT AND CCT. (X): PROVIDE WITH INTEGRAL 90 MINUTE (UL924) BATTERY PACK.	RECESSED GRID	LED 3400 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX KEYSTONE XFIT SIGNIFY FLUXPANEL	30
B2	2'-0" X 2'-0" RECESSED TOP LIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. FIELD SELECTABLE OUTPUT AND CCT. (X): PROVIDE WITH INTEGRAL 90 MINUTE (UL924) BATTERY PACK.	RECESSED GRID	LED 3000 LUMENS 3500K 80 CRI	UNV	WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX KEYSTONE XFIT SIGNIFY FLUXPANEL	25
C	2'-0" LED WALL SCONCE DIRECT/INDIRECT DISTRIBUTION. INTEGRAL 10% 0-10V DIMMABLE DRIVER. COORDINATE FINISH WITH ARCHITECT.	SURFACE	350 LUMENS/FT DIRECT 350 LUMENS/FT INIDIRECT 3500K 80 CRI	UNV	XICO SERIES EDGE SOLO275 OR PRE BID APPROVED EQUAL	6.8/FT
UC1	WHITE LED TAPE IN ALUMINUM CHANNEL. FROSTED DIFFUSION LENS. INSTALL IN CONTINUOUS LENGTHS. REFER TO DRAWINGS FOR REQUIRED LENGTHS. PROVIDE ALL PARTS AND PIECES TO INSTALL A COMPLETE WORKING SYSTEM.	SURFACE	LED 300 LUMENS/FT 80+ CRI 3500K	UNV	ACOLYTE SERIES CHAC3 KELVIX SERIES VT DIODE LED SERIES VALENT X OR PRE BID APPROVED EQUAL	2.2/FT
X1	LED EXIT SIGN WITH DIE CAST ALUMINIUM HOUSING. COORDINATE FINISHES WITH ARCHITECT. PROVIDE TOP, BACK OR SIDE MOUNT HARDWARE AS REQUIRED BY ARCHITECTURAL CONDITIONS. INCLUDE WITH NICAD BATTERY CAPABLE OF 90 MINUTES OF EMERGENCY OPERATION.	WALL, CEILING OR PENDANT AS REQ'D	LED	UNV	DUAL-LITE SERIES SE SURE-LITES SERIES CX CHLORIDE SERIES 55 OR PRE BID APPROVED EQUAL	2

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100% Construction Documents

A. Doniphan Elementary School
Liberty Public Schools
1900 Clay Drive
Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI — RYAN JEROD DIEDIKER — NUMBER PE-2015006511 — REGISTERED PROFESSIONAL ENGINEER — 11/22/23

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DATE: 11.22.2023

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project number 2314713

E301

ELECTRICAL - SCHEDULES & DETAILS

PROJECT NAME: 2314713 Liberty SD 2023 - Alexander Doniphan ES Renovations
AUTOCAD FILE LOCATION \ NAME: X:\23\23147\2314713\Drawings\06-2314713_E301.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Pvespestad Tuesday, November 21, 2023 4:21:01 PM
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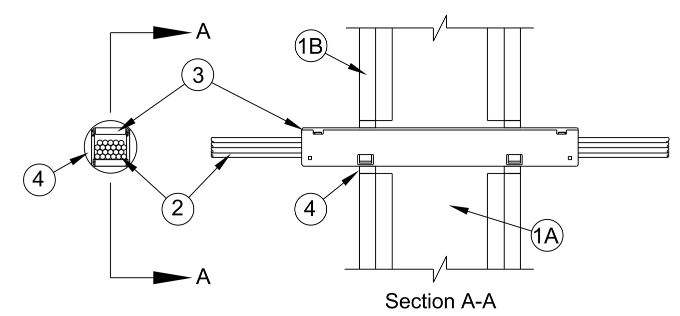
System No. W-L-3256
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1, 1-1/4 and 1-3/4 Hr (See Item 2)
L Rating At Ambient - Less Than 1 or 1.4 CFM
(See Item 3)
L Rating At 400 F - Less Than 1 or 1.4 CFM
(See Item 3)



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).

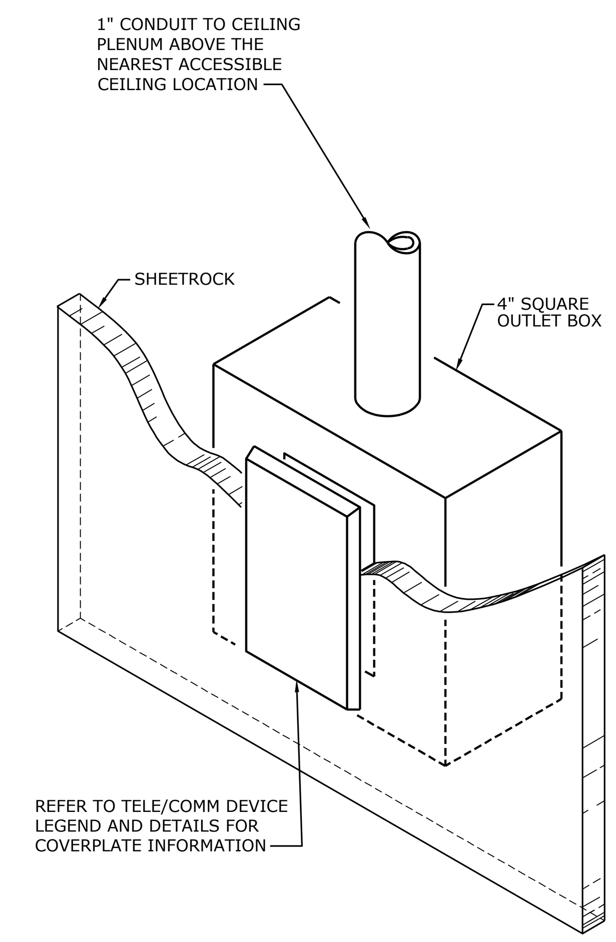
   The T Rating is 1 hr and 1-3/4 hr in 1 hr and 2 hr rated walls, respectively, when no cables are installed in firestop device. The T Rating is 1 hr and 1-1/4 hr in 1 hr and 2 hr rated walls, respectively, when cables are installed in firestop device.

   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.

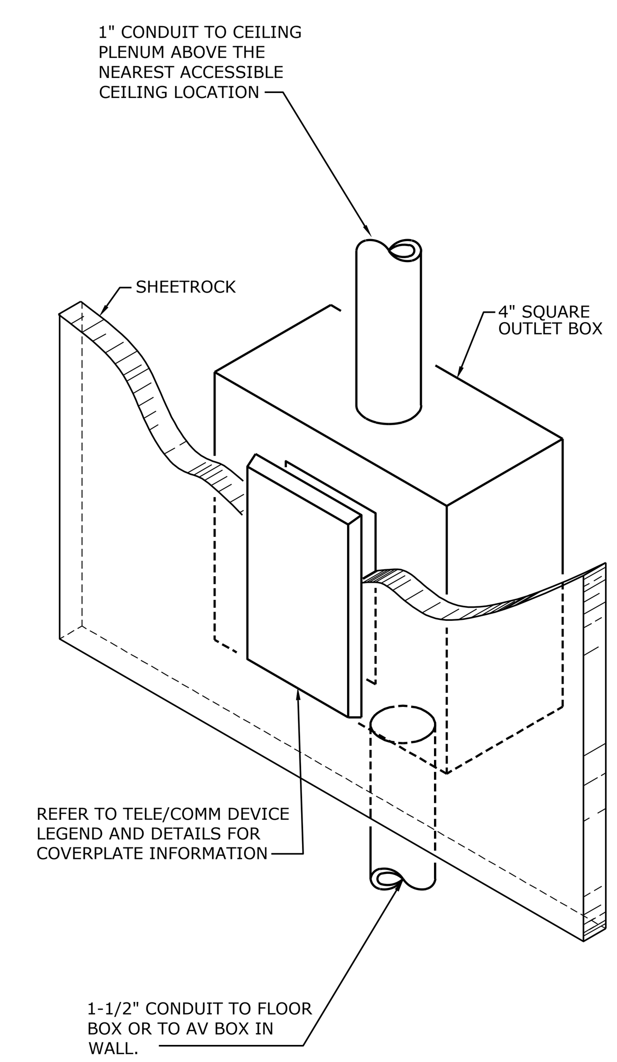
3. Firestop Device* - Firestop device consists of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device to be installed in accordance with the accompanying installation instructions. Prior to installation within wall, lid removed from 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 SIL300 Sealant
   *Bearing the UL Classification Mark

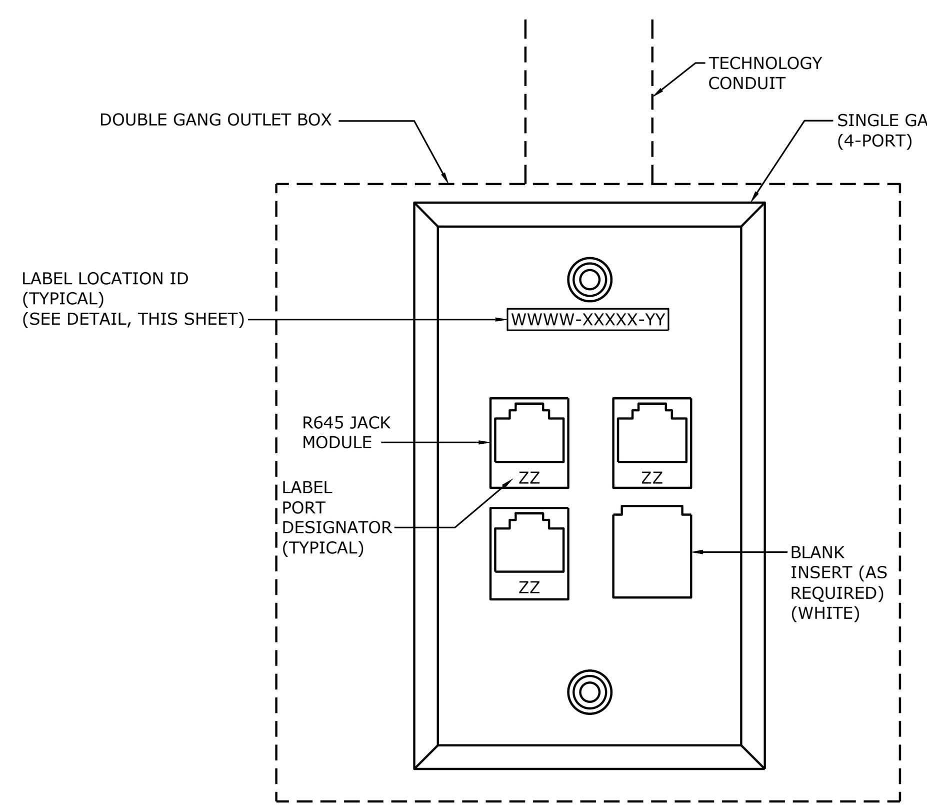
TELECOMMUNICATIONS CABLING AT FIRE WALL PENETRATIONS
NOT TO SCALE



TELE/DATA OUTLET ROUGH-IN DETAIL
NOT TO SCALE

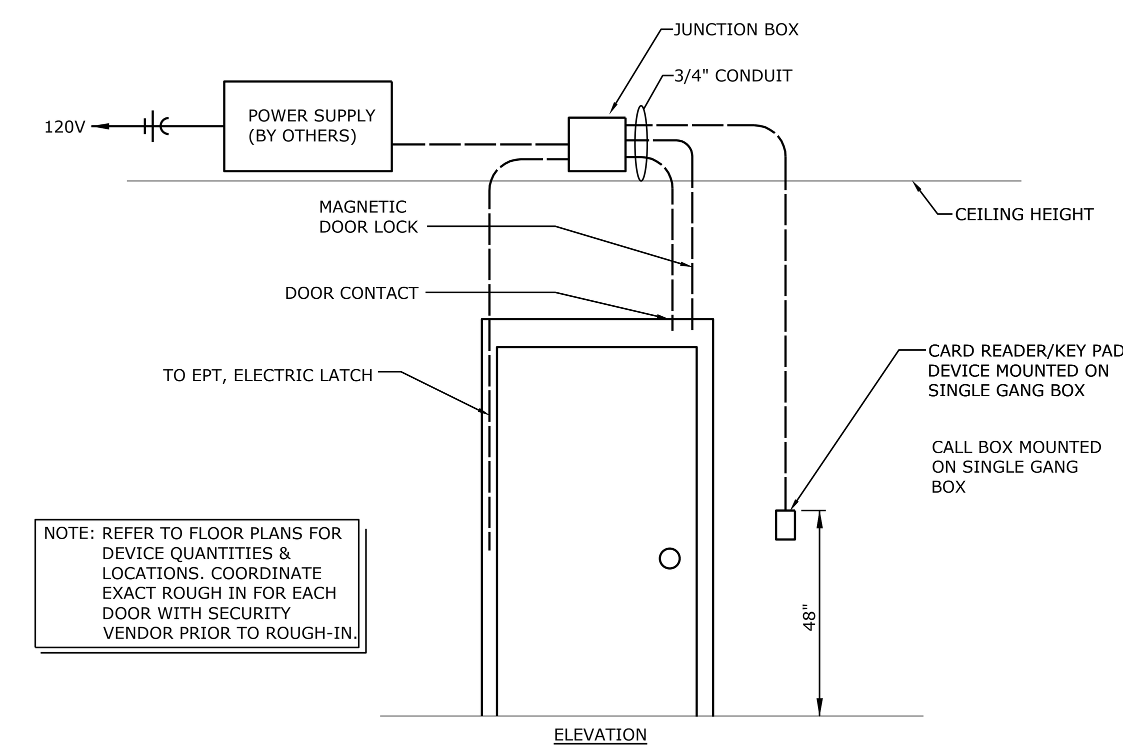


TV OUTLET DETAIL
NOT TO SCALE



*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



DOOR INFRASTRUCTURE - SINGLE DOOR DETAIL
NOT TO SCALE

TYPICAL LABELING SCHEME (FOR HORIZONTAL COMPONENTS)

W – YY – ZZ

COMMUNICATIONS ROOM DESIGNATION (SINGLE LETTER), PROVIDED BY SCHOOL DISTRICT

PANEL# (01, 02, 03, ETC.)

2-DIGIT PORT # (01, 02, 03, ETC.)

W - IDENTIFIES THE DATA ROOM 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.

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E302

ELECTRICAL - SCHEDULES & DETAILS

PROJECT NAME: 2314713 Liberty SD 2023 - Alexander Doniphan ES Renovations
AUTOCAD FILE LOCATION \ NAME: X:\23\23147\2314713\Drawings\06-2314713_E302.dwg
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