



Van Buren Public Schools

RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

List of Drawings

Cover

RCHITECTURAL

R.0 Architectural Reference Information

S.0 Life Safety Plan and Building Code In

First Floor Demolition Plan
First Floor New Work Plan
First Floor Reflected Ceiling Plan
Interior Elevations
Room Finish Schedule
Door Schedule and Details

A9.3 Partition Types
A9.4 Sections and Details
A10.1 First Floor Finish Plan
F2.1 First Floor Furniture Plan

MECHANICAL

MR.0 Mechanical Reference Information

M1.1U First Floor Underground Demolition Plan

M1.1 First Floor Demolition Plan

M2.1 First Floor Sheet Metal Plan

M4.1U First Floor Underground Plumbing Plan

M4.1 First Floor Plumbing and HVAC Piping Plan

M6.1 Details

M6.1 Details
M7.1 Schedules & Controls
FPR.0 Fire Protection Reference Information
FP2.1 First Floor Fire Protection Plan

ELECTRICAL

ER.0 Electrical Reference Information
E4.1 Enlarged Plan
E4.2 Enlarged Plans

E5.1 One Line Diagram
E5.2 Fire Alarm Diagram, Detail and Panel Schedules

Code Information

REFER TO DRAWING LS.0 FOR LIFE SAFETY AND CODE INFORMATION

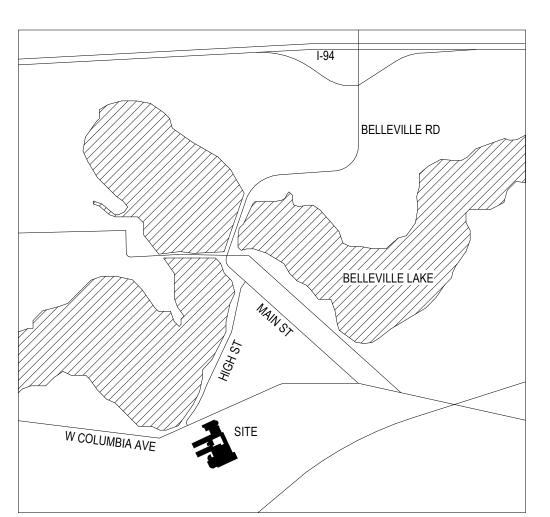
Design Development 07-03-2024

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Bids 01-31-2025

Issued for

Issue Date





e Map Registra

Signature Signature Signature Date

Registration Seal

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Autodesk Docs://Van Buren Public Schools (2023)/VBPS HS 2/17/2025 10:51:17 AM Clinic-A23.rvt

grand rapids, michigan 49546

www.ids-michigan.com

248.823.2100

Project Tit

Van Buren Public Schools

RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARD INFORMATION SHOWN ON THIS SHEET

Project Administrator
A. Maurer
Project Designer
A. Pelfrey
Project Architect / Engineer
C. King
Drawn By
C. King
Q.M. Review
N. LaForest
Approved
B. Sundberg
Drawing Scale
No Scale
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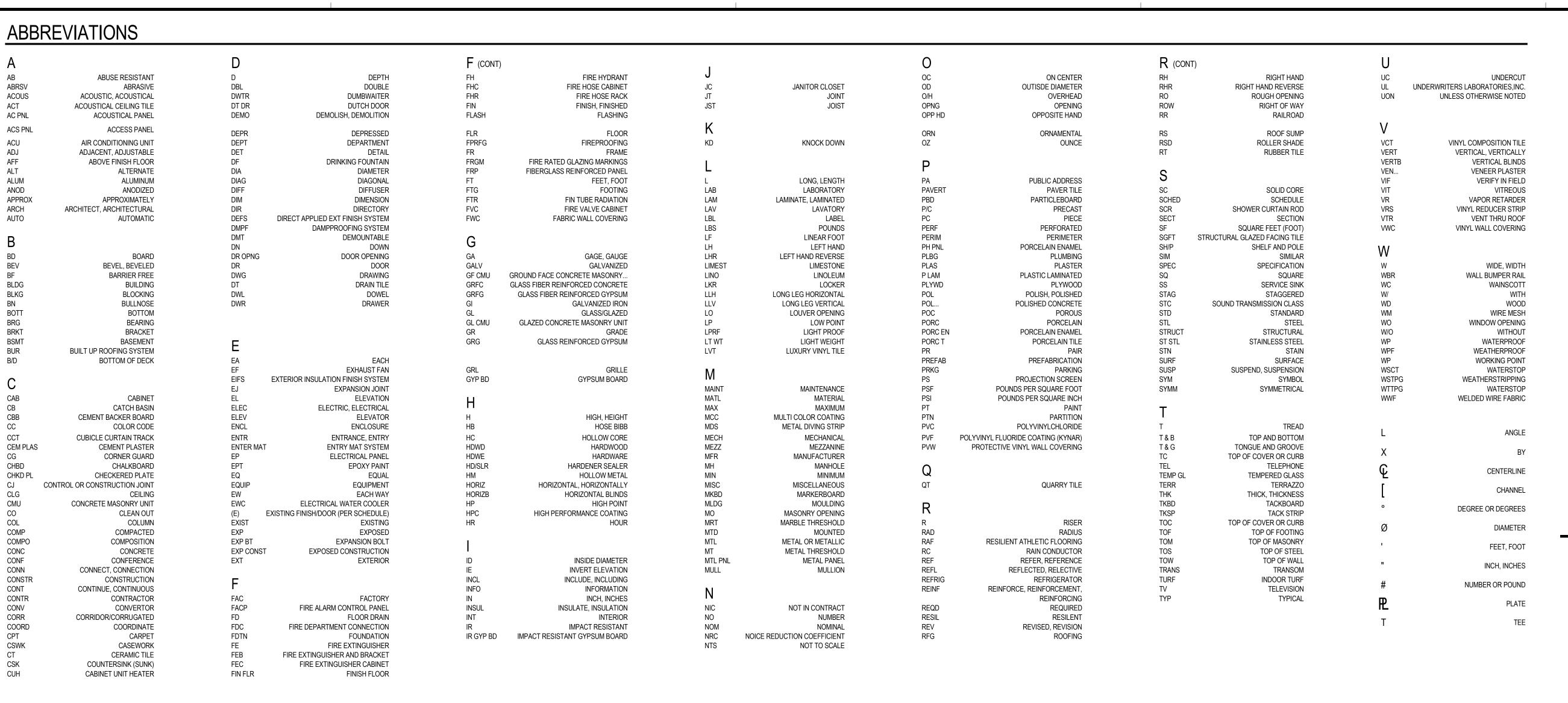
Architectural Reference Information

ī**D**§ Project Number

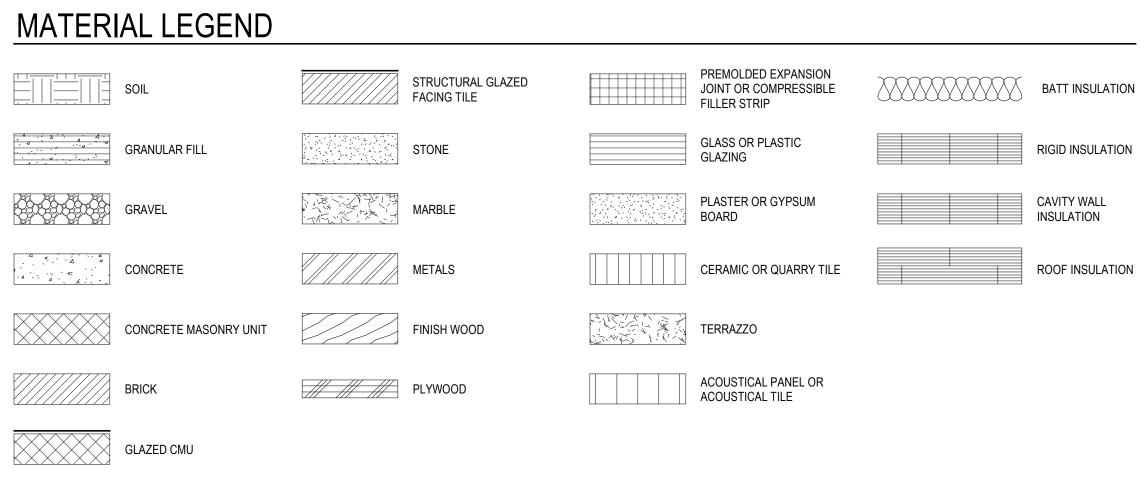
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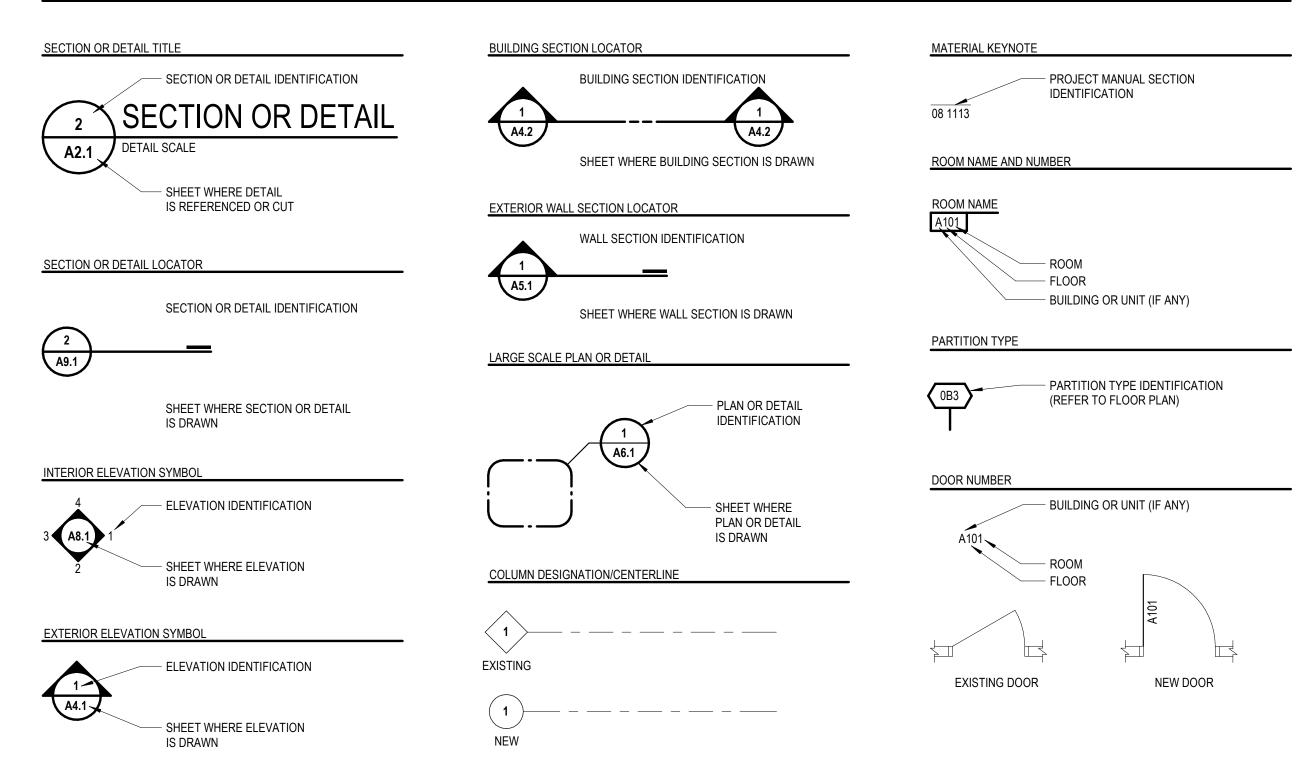
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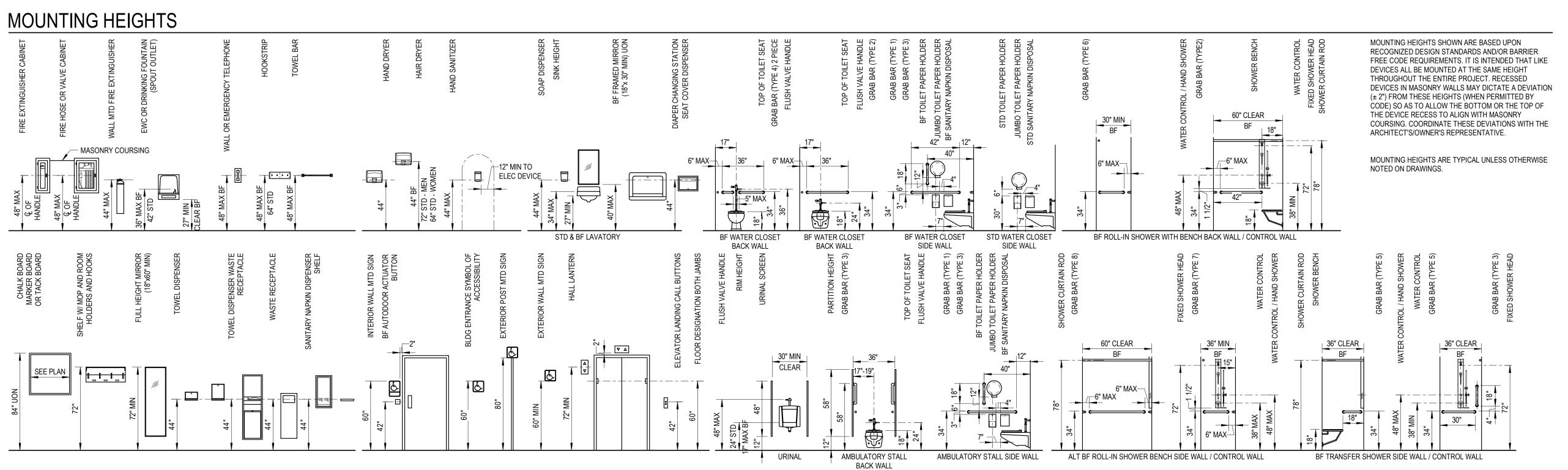
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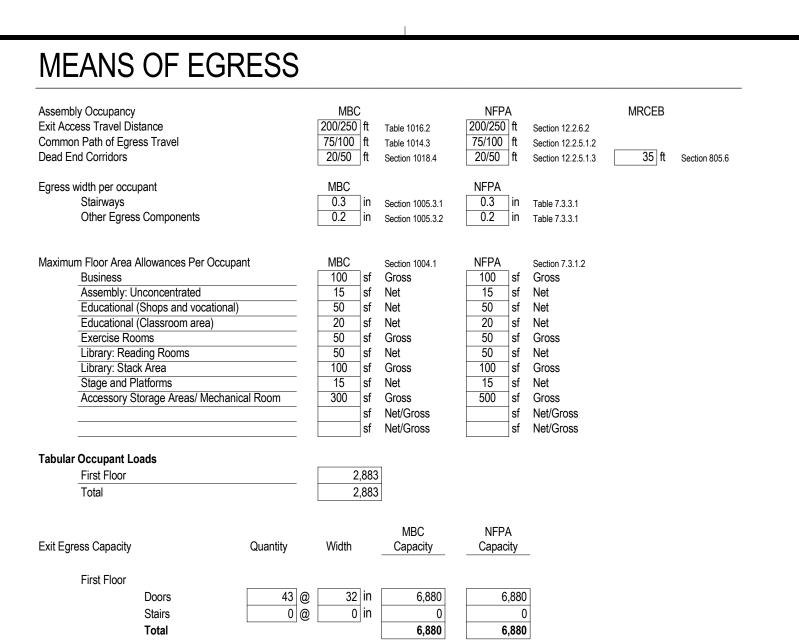


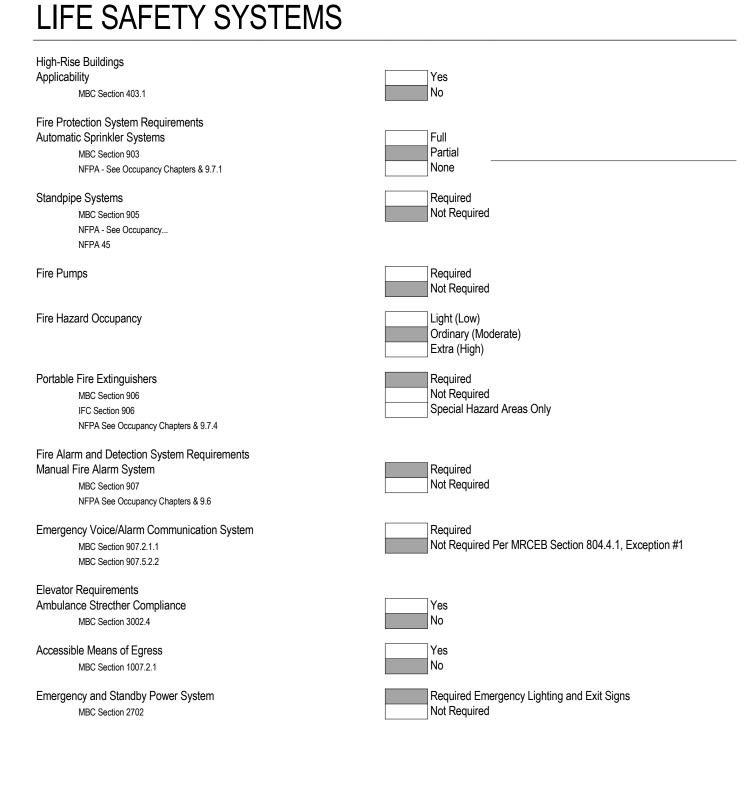
SYMBOL LEGEND

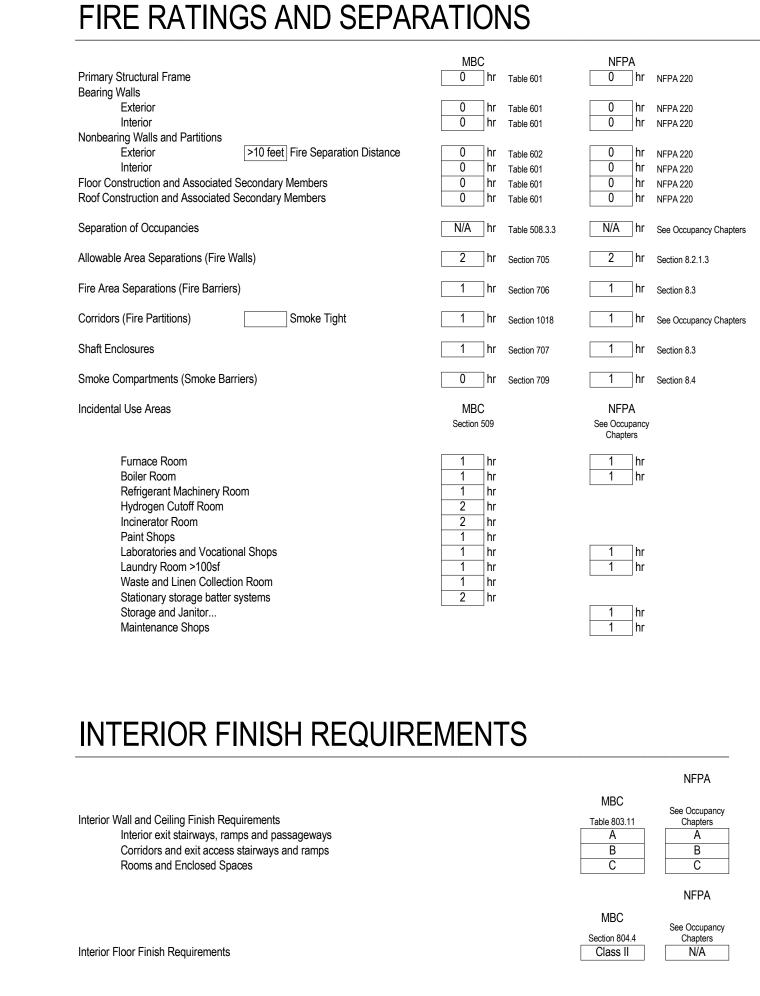


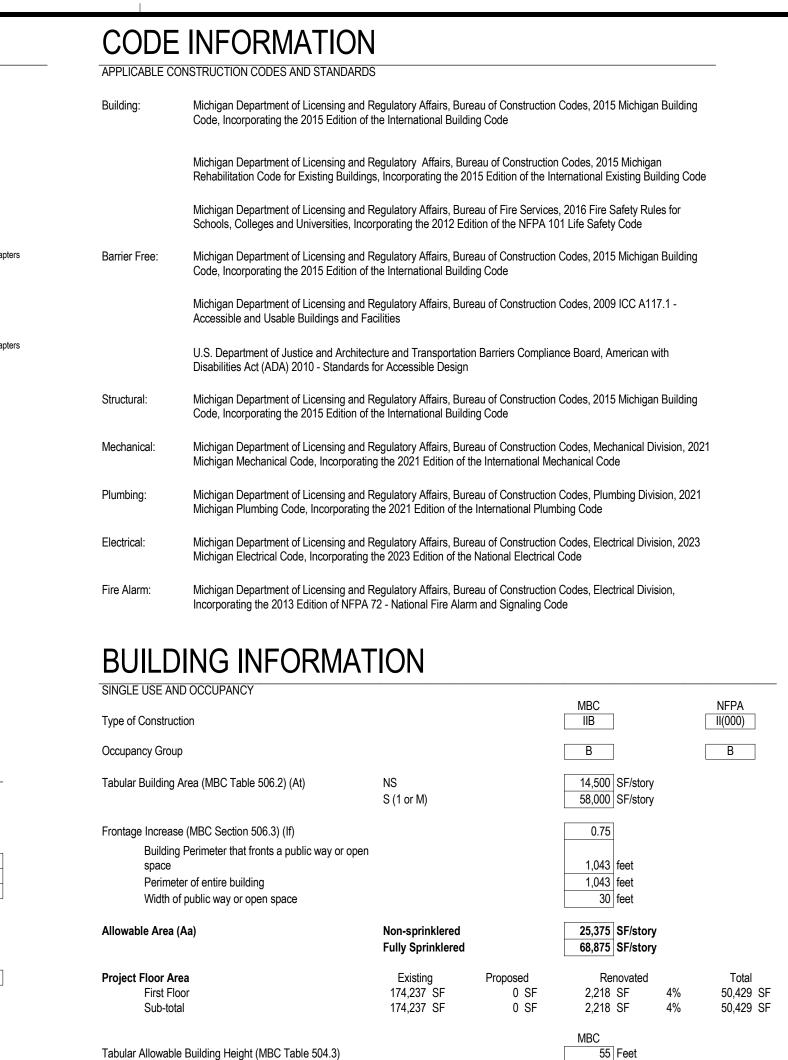








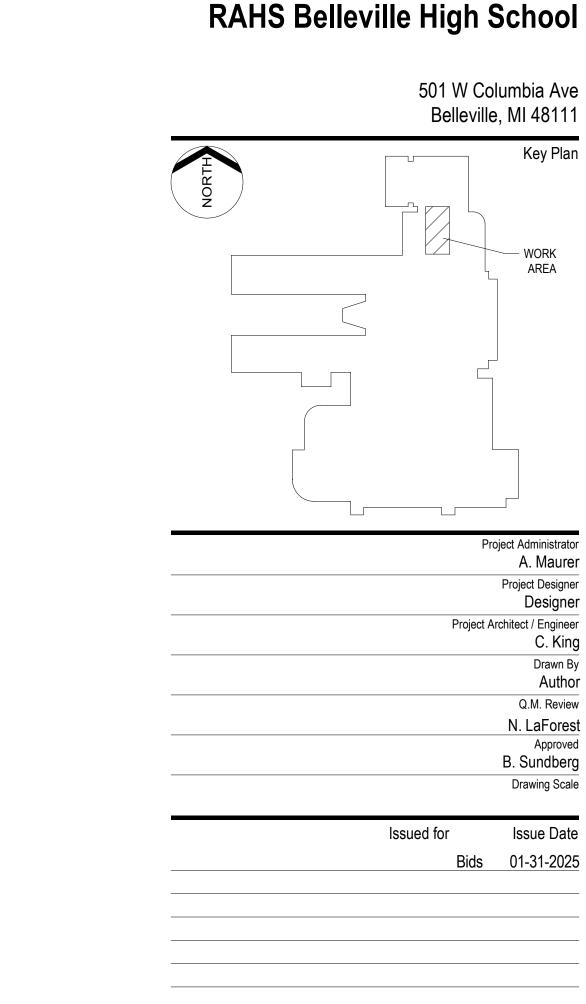




Tabular Story Limitations (MBC Table 504.4)

Project Number of Stories above grade plane

Project Building Height



2 Stories above grade plane

1 Stories above grade plane



LEGEND LIFE SAFETY NOTE: NOT ALL SYMBOLS MAY BE USED ➡ EMERGENCY RESCUE/VENTILATION WINDOW OPENING NEW PENETRATIONS OR OPENING PROTECTIVES WILL COMPLY WITH 1-HOUR FIRE-RESISTANCE-RATED FIRE BARRIER REQUIREMENTS 1-HR FIRE-RATED PARTITION 2-HR FIRE-RATED PARTITION 3-HR FIRE-RATED PARTITION SMOKE TIGHT PARTITION LIMITS OF LEVEL 2 ALTERATION LIMITS OF INCIDENTAL WORK ASSOCIATED

WITH LEVEL 2 ALTERATION PER DEFINITION

OF WORK AREA IN MRCEB

Life Safety Plan and Building Code

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INTEGRATED design SOLUTIONS

architecture engineering interiors & technology

1441 west long lake, suite 200

grand rapids, michigan 49546

5211 cascade road SE, suite 300

troy, michigan 48098

www.ids-michigan.com

248.823.2100

Project Title

Van Buren Public Schools

501 W Columbia Ave Belleville, MI 48111

N. LaForest

B. Sundberg

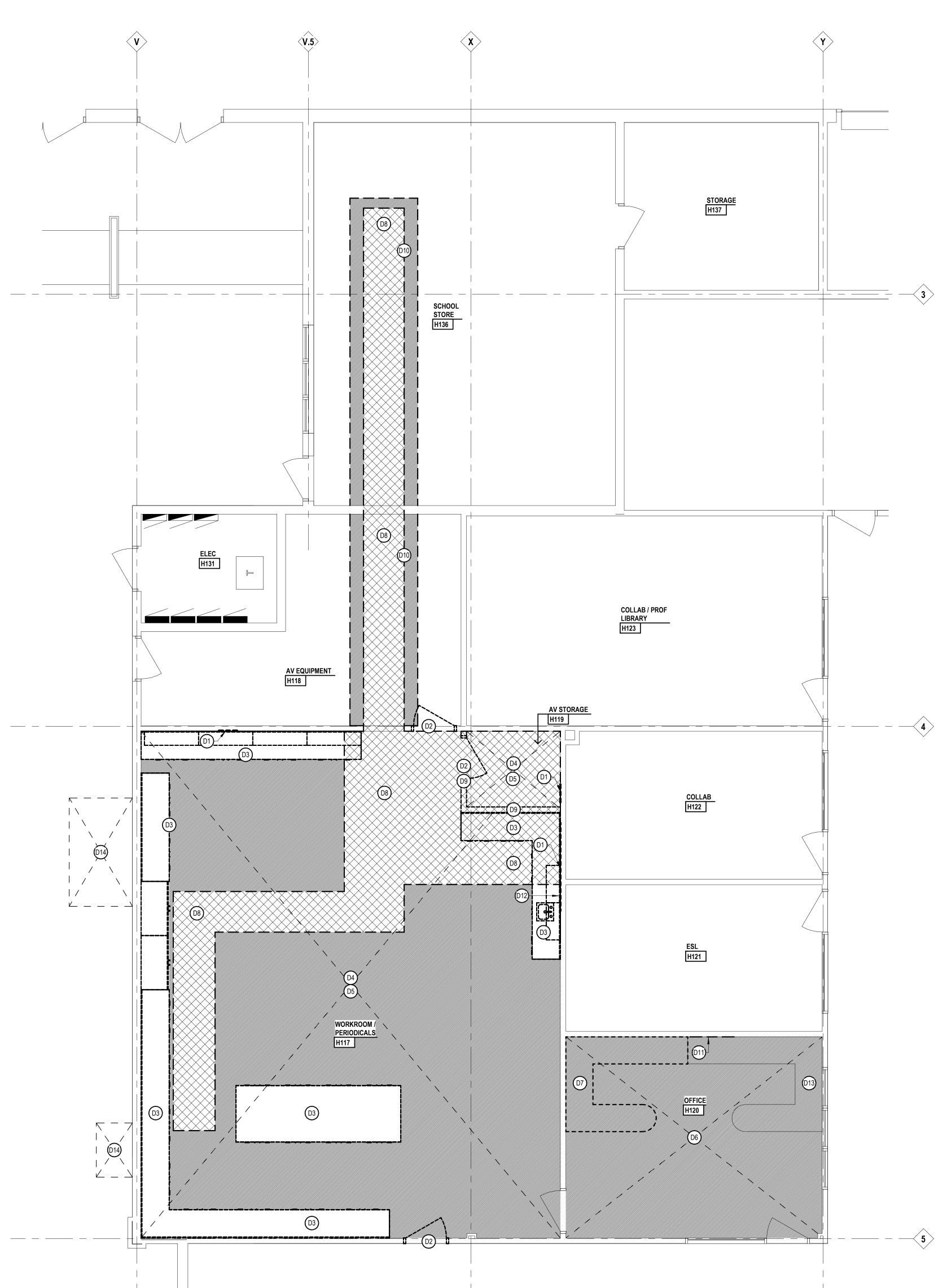
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24167-1000

LS.0



DEMOLITION PLAN

- A. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLAN. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.
- B. CONTRACTOR SHALL PROVIDE TEMPORARY DUSTPROOF PARTITIONS WITH DOORS AT LOCATIONS INDICATED AND/OR AS REQUIRED TO ADEQUATELY SEPARATE OCCUPIED AREAS FROM CONSTRUCTION HAZARDS, NOISE AND/OR DUST. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE ALL LOCATIONS WITH
- C. CONTRACTOR SHALL PROVIDE DUST MATS AT ALL CONSTRUCTION AREA ENTRANCES AND EXIT LOCATIONS. COORDINATE ALL LOCATION'S WITH ARCHITECT'S/OWNER'S REPRESENTATIVES.

ARCHITECT'S/OWNER'S REPRESENTATIVE.

- D. CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL MEANS OF EGRESS AND ALL FIRE PROTECTION FEATURES FOR PORTIONS OF THE BUILDING THAT REMAIN OCCUPIED DURING CONSTRUCTION.
- E. COORDINATE SCOPE AND EXTENT OF DEMOLITION WITH NEW WORK PLANS AND DETAILS.
- F. REFER TO MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.

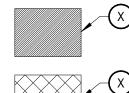
LEGEND

DEMOLITION PLAN NOTE: NOT ALL SYMBOLS MAY BE USED

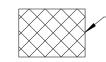
EXISTING TO BE REMOVED

EXISTING CEILING TO BE REMOVED AS NOTED BY KEYNOTE

EXISTING TO REMAIN



EXISTING FLOOR/FINISH TO BE REMOVED AS NOTED BY KEYNOTE



SAWCUT AND REMOVE PORTION OF CONC SLAB AS NOTED BY KEYNOTE

KEYNOTES

DEMOLITION PLAN SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS NOTE: NOT ALL KEYNOTES MAY BE USED

LEGEND SYMBOL INDICATOR

D1 REMOVE PORTION OF GYPSUM BOARD. COORDINATE WITH NEW WORK PLANS.

D2 REMOVE DOOR, FRAME, AND SILL IN ITS ENTIRETY

MOUNTED CABINETS IN THEIR ENTIRETY

- D3 REMOVE BASE CABINETS, COUNTERTOP, BACKSPLASH AND/OR WALL
- D4 REMOVE ACOUSTIC CEILING TILES, GRID, AND SUSPENSION SYSTEM IN ITS ENTIRETY
- D5 REMOVE VCT / LINOLEUM FLOORING, BASE, AND ADHESIVE DOWN TO STRUCTURAL SLAB
- D6 REMOVE CARPET, WALL BASE, AND ADHESIVE DOWN TO STRUCTURAL
- D7 REMOVE FURNITURE AND RETURN TO OWNER
- D8 SAW CUT AND REMOVE PORTION OF CONCRETE FLOOR SLAB. COORDINATE WITH NEW WORK PLANS.
- D9 REMOVE GYPSUM BOARD / METAL STUD PARTITION. COORDINATE WITH NEW WORK PLANS.
- D10 REMOVE CARPET AS REQUIRED FOR FLOOR TRENCHING SALVAGE, PROTECT AND STORE CARPET FOR REINSTALLATION
- D11 REMOVE MARKERBOARD / TACKBOARD / WHITEBOARD IN ITS ENTIRETY. RETURN TO OWNER.
- D12 REMOVE AND SALVAGE WALL MOUNTED PAPER TOWEL DISPENSER
- AND SOAP DISPENSER AND RETURN TO OWNER.
- D13 TEMPORARILY REMOVE FURNITURE PIECE, PROTECT, AND STORE FOR REINSTALLATION D14 REMOVE, SALVAGE, PROTECT & STORE ACOUSTICAL CEILING PANELS
 AS REQUIRED FOR OVERHEAD MECHANICAL WORK - EXISTING
 SUSPENSION SYSTEM TO REMAIN

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5211 cascade road SE, suite 300

grand rapids, michigan 49546

troy, michigan 48098

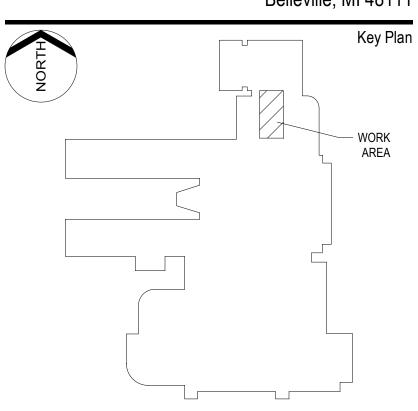
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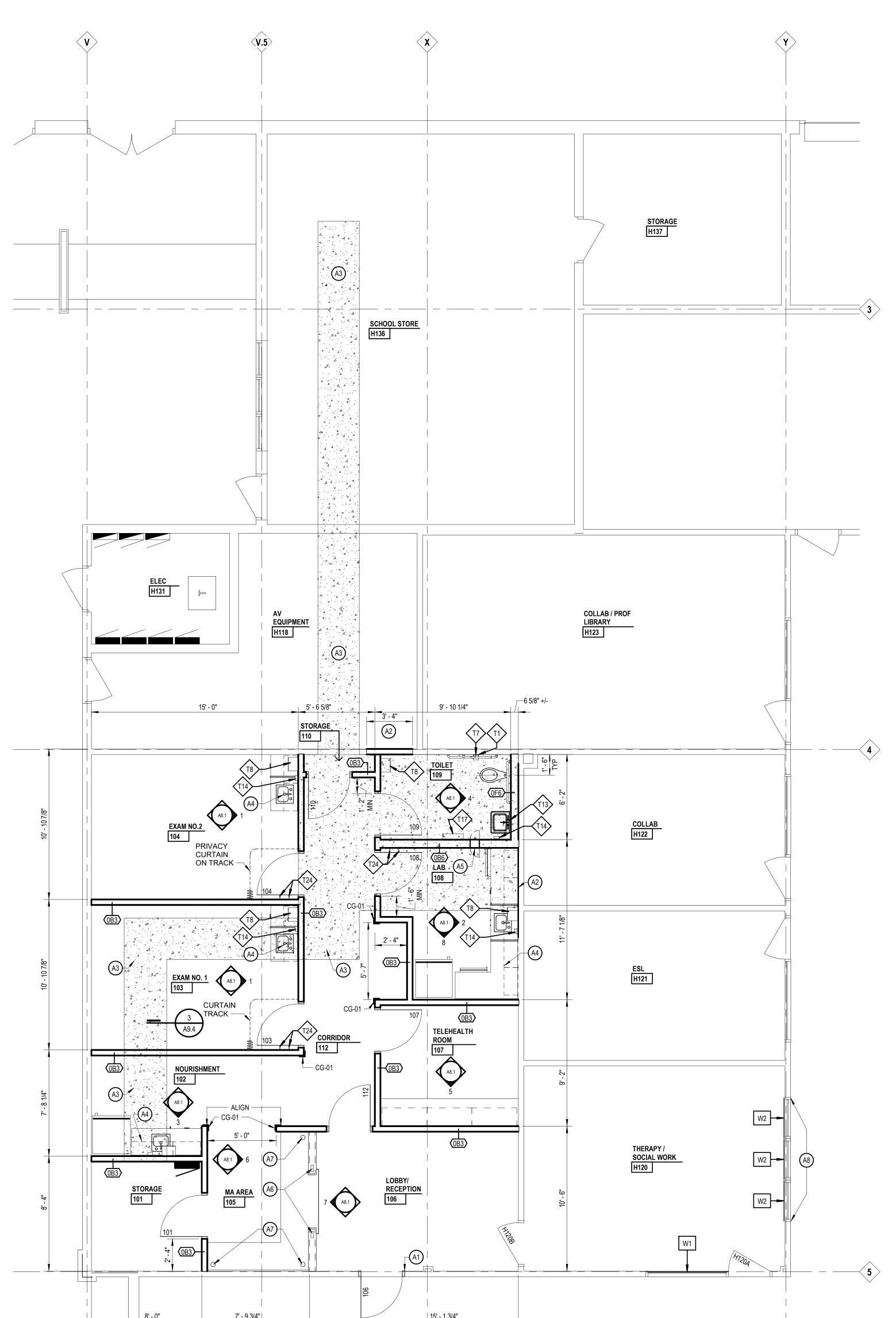


	Project Designer A. Pelfrey
Project A	Architect / Engineer C. King
	Drawn By A. Pelfrey
	Q.M. Review
	N. LaFores
	Approved
	B. Sundberg
	Drawing Scale
	1/4" = 1' - 0'
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First Floor Demolition Plan

ī**D**§ Project Number



- **NEW WORK PLAN**
- A. REFER TO SHEET A9.2 FOR DOOR SCHEDULE AND COLORS.
- B. REFER TO SHEET A9.1 FOR FINISH SCHEDULE AND COLORS. C. REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS.
- D. PARTIAL WALL POCHEING IS SHOWN THROUGHOUT THIS PLAN AND THE TERMINATION OF SAME SHALL NOT BE CONSTRUED TO REPRESENT A CHANGE IN WALL MATERIAL. VERIFY WALL MATERIALS WITH PARTITION TYPES AND SCHEDULES.
- E. PATCH AND/OR REPAIR ALL EXISTING FLOOR, WALL AND OR CEILING FINISHES AS REQUIRED TO MATCH EXISTING OR TO ACCEPT NEW FINISHES AS SCHEDULED AT ALL AREAS AFFECTED BY THE DEMOLITION WORK. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL SCOPE OF WORK.
- F. INFILL ALL OPENINGS IN EXISTING WALLS ABOVE CEILINGS THAT ARE THE RESULT OF MECHANICAL OR ELECTRICAL DEMOLITION. OPENINGS IN MASONRY WALLS SHALL BE FILLED WITH MASONRY OF SIMILAR TYPES AND THICKNESS AS EXISTING. OPENINGS IN OTHER TYPES OF WALL CONSTRUCTION SHALL MATCH EXISTING MATERIALS, FINISHES AND WALL THICKNESS. REFER TO

MECHANICAL AND ELECTRICAL SHEETS FOR SCOPE OF WORK.

- G. PROVIDE POSITIVE SLOPE TO ALL FLOOR DRAINS WHILE KEEPING FLOOR LEVEL AT WALL BASE.
- H. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WITH TRADES REQUIRING SAME. QUANTITIES SHOWN DO NOT NECESSARILY REPRESENT ALL ACCESS DOORS REQUIRED FOR ACCESSIBILITY.

LEGEND

NEW WORK PLAN NOTE: NOT ALL SYMBOLS MAY BE USED

EXISTING CONSTRUCTION NEW CONSTRUCTION PARTITION TYPE - REFER TO PARTITION DETAILS SHEET A9.3 SHALL COMPLY WITH BARRIER FREE REQUIREMENTS

XXXX CASEWORK/ MILLWORK TAG 10 1100 VISUAL DISPLAY SURFACE XXXX MK= MARKERBOARD, TK=TACKBOARD XXXX INDICATES BOARD SIZE

12 2413 ROLLER WINDOW SHADE

CORNER GUARD

KEYNOTES

NEW WORK FLOOR PLAN SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS

NOTE: NOT ALL KEYNOTES MAY BE USED

LEGEND SYMBOL INDICATOR

A1 AT BOTH SIDES OF DOOR PATCH & REPAIR 09 2900 GYPSUM BOARD JAMBS TO MATCH ADJACENT CONSTRUCTION - REINSTALL EXISTING WALL BASE AS REQUIRED.

- A2 PATCH/REPAIR GYPSUM BOARD/ PARTITION TO MATCH ADJACENT CONSTRUCTION.
- A3 03 3000 PATCH AND REPAIR CONCRETE FLOOR SLAB AT LOCATION OF REMOVED WALL OR SLAB PORTION. REFER TO TYPICAL DETAIL 5/A9.4
- A4 REINFORCE PARTITION WITH 06 1000 WOOD BLOCKING AS REQUIRED TO ACCOMODATE MILLWORK, TELEVISIONS, AND ACCESSORIES. REFER TO TYPICAL DETAIL 6/A9.4
- A5 10 2800 SAMPLE PASS THRU WINDOW
- A6 09 2216 PONY WALL SUPPORT CONCEALED WITHIN WALL
- A7 06 4023 GROMMET HOLE
- A8 09 9100 PAINT (PT-05) FULL EXTENTS OF EXISTING FRAME TYPICAL FOR BOTH SIDES

LEGEND

TOILET ACCESSORIES SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS

NOTE: NOT ALL KEYNOTES MAY BE USED REFER TO SPECIFICATION SECTION 10 2800 FOR ADDITIONAL

INFORMATION ALL TOILET ACCESSORIES ARE CONTRACTOR FURNISHED AND INSTALLED UON (OF/OI): OWNER FURNISHED/OWNER INSTALLED

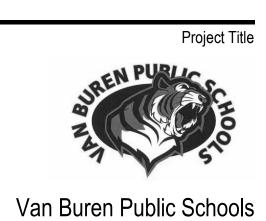
(OF/CI): OWNER FURNISHED/CONTRACTOR INSTALLED REFER TO DRAWING AR.0 FOR TYPICAL MOUNTING HEIGHTS # LEGEND SYMBOL INDICATOR

- T1 GRAB BAR SET 1 (1) GRAB BAR TYPE 1, (1) GRAB BAR TYPE 2, (1) GRAB BAR TYPE 3 (CF/CI) T7 TOILET PAPER DISPENSER (OF/CI)
- T8 PAPER TOWEL DISPENSER (OF/CI) T13 MIRROR (CF/CI)
- T14 SOAP DISPENSER (OF/CI)
- T17 SHELF (CF/CI) T24 COAT HOOK



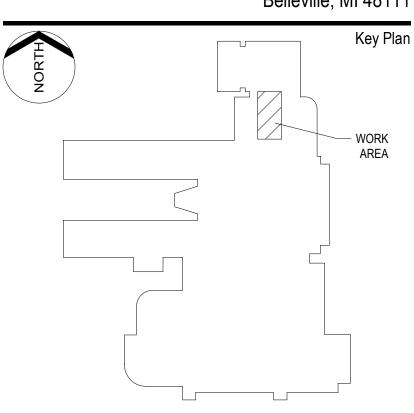
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Pr	oject Administrator
	A. Maurer
	Project Designer
	A. Pelfrey
Project A	Architect / Engineer
	C. King
	Drawn By
	C. King
	Q.M. Review
	N. LaForest
	Approved
	B. Sundberg
	Drawing Scale
	1/4" = 1' - 0"
Issued for	Issue Date
Design Development	07-03-2024
Quality Management Review	01-09-2025
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First Floor New Work Plan

ī **D** S Project Number

Drawing Number

A2.1

REFLECTED CEILING PLAN

A. CEILING HEIGHT 9'-0" AFF UNLESS OTHERWISE NOTED.

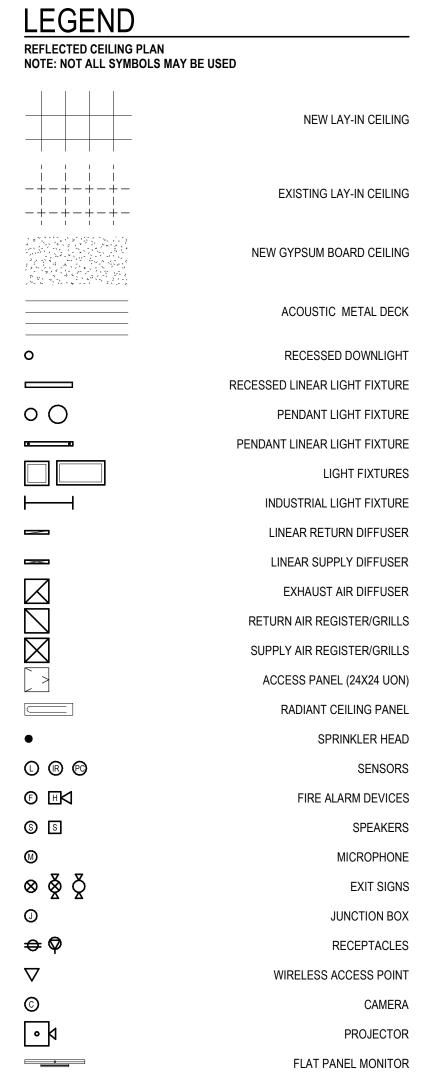
SPACE EQUIPMENT SUPPORTING DEVICES.

- B. ACOUSTICAL CEILING PANELS AND/OR TILES SHALL BE CENTERED WITHIN THE ROOM OR BORDER UNLESS OTHERWISE NOTED.
- C. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATION.
- D. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING
- E. UNLESS OTHERWISE NOTED LOCATION OF ITEMS SHOWN IN AREAS WITHOUT FINISH CEILINGS IS APPROXIMATE. COORDINATE EXACT
- WITHOUT FINISH CEILINGS IS APPROXIMATE. COORDINATE EX LOCATION BETWEEN TRADES.

 F. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WIT
- F. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WITH TRADES REQUIRING SAME. QUANTITIES SHOWN DO NOT NECESSARILY REPRESENT ALL ACCESS DOORS REQUIRED FOR ACCESSIBILITY.



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<u>KEYNOTES</u>

REFLECTED CEILING PLAN
SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS
NOTE: NOT ALL KEYNOTES MAY BE USED

LEGEND SYMBOL INDICATOR

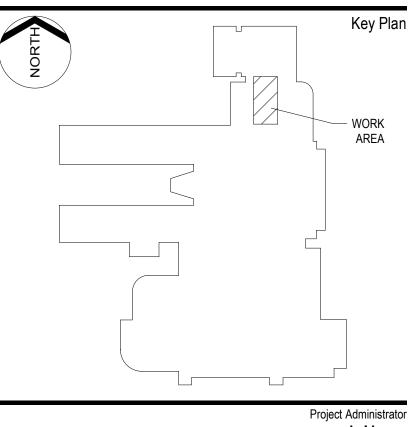
C1 REINSTALL SALVAGED CEILNG TILE INTO EXISTING GRID - REPLACE
ANY DAMAGED TILES WITH SIMILAR PRODUCT. COORD WITH EXTENTS
SHOWN ON DEMO PLANS

C2 10 2123 CUBICLE CURTAIN TRACK



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	roject Administrator A. Maurer
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Project	Architect / Engineer C. King
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First Floor Reflected Ceiling Plan

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m design}$ solutions, LLC

ī **D**§ Project Number

- INTERIOR ELEVATIONS
- A. ALL DIMENSIONS ARE TO FACE OF GYP BOARD UON.
- B. COORDINATE THE INTERFACING OF ALL TRADES WITH RESPECT TO DELIVERY AND INSTALLATION OF ALL FIXTURES AND EQUIPMENT
- C. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BEFORE INSTALLATION. CONSULT ARCHITECT WHEN ACTUAL FIELD CONDITIONS VARY FROM THOSE SHOWN ON CONSTRUCTION DOCUMENTS.
- D. COORDINATE LOCATIONS OF ALL REQUIRED UTILITIES WITH THE TRADE PROVIDING THE SAME. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
- E. FASTEN ALL TALL CASES TO THE ADJOINING WALL THROUGH THE BACK OR SIDE OF THE UNIT.
- F. ALL COUNTERTOPS INSTALLED ALONG A WALL OR EQUIPMENT ARE TO HAVE 4" BACKSPLASH AND SIDE SPLASH UON.
- G. FINISH ALL EXPOSED ENDS AND BACKS OF FREESTANDING CASEWORK/ MILLWORK.
- H. PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS UON. ALL LOCKS SHOULD BE KEYED ALIKE BY ROOM, PROVIDE MASTER
- I. REFER TO A9.1 ROOM FINISH SCHEDULE FOR COLORS AND FINISHES OF MATERIALS
- J. REFER TO PLANS, SECTIONS AND DETAILS FOR CASEWORK DEPTH. K. PROVIDE CABINET FILLERS AS NEEDED.
- L. FURNITURE AND SPECIALTY EQUIPMENT BY OTHERS SHOWN FOR REFERENCE ONLY
- M. FURNITURE SHOWN AT HALFTONE BY OWNER
- N. PROVIDE PARTITION REINFORCEMENT AT LOCATIONS OF WALL MOUNTED EQUIPMENT. REFER TO DETAIL X/AX.X FOR TYPICAL REQUIREMENTS AT NEW CONSTRUCTION. CONDITIONS MAY VARY AT EXISTING PARTITIONS.
- O. NOT ALL SIGN LOCATIONS ARE ELEVATED
- P. COORDINATE LOCATIONS OF ALL REQUIRED UTILITY CONNECTIONS AND/OR REQUIREMENTS WITH THE TRADE PROVIDING THE SAME

LEGEND

INTERIOR ELEVATIONS NOTE: NOT ALL SYMBOLS MAY BE USED

(XXXX) 06 4023 CASEWORK / MILLWORK TAG XXXX 10 1100 VISUAL DISPLAY SURFACE MK= MARKERBOARD, TK=TACKBOARD XXXX INDICATES BOARD SIZE



ACCENT MATERIAL, REFER TO COLOR CODES

SPECIALTY EQUIPMENT BY OTHERS REFER TO FF&E OR

LEGEND

ELEVATION MATERIALS NOTE: NOT ALL SYMBOLS MAY BE USED

09 2900 GYP BOARD

TECHNOLOGY PACKAGES

09 3000 WALL TILE

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A. Maurer Project Designer A. Pelfrey Project Architect / Engineer C. King Drawn By
D. Sandle Q.M. Review — 06 4023 COUNTERTOP SUPPORT ANGLES N. LaForest - 06 4023 SOLID SURFACE B. Sundberg COUNTERTOP Drawing Scale As Noted - 06 4023 COUNTERTOP SUPPORT BRACKET Issue Date Issued for - 26 ELECTRICAL DEVICES, REFER TO ELEC Design Development 07-03-2024 - 09 6513 RESILIENT BASE Quality Management Review 01-09-2025 Bids 01-31-2025

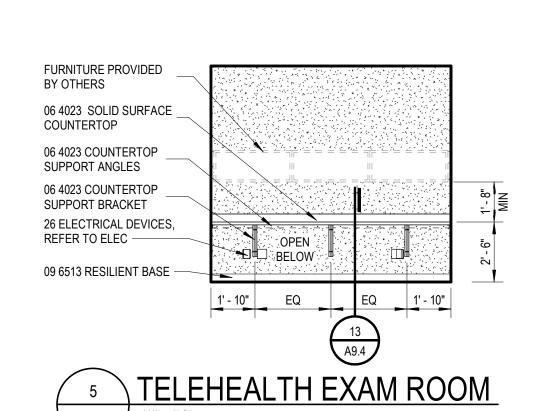
> \circ 2025 integrated $ext{design}$ solutions, LL Interior Elevations

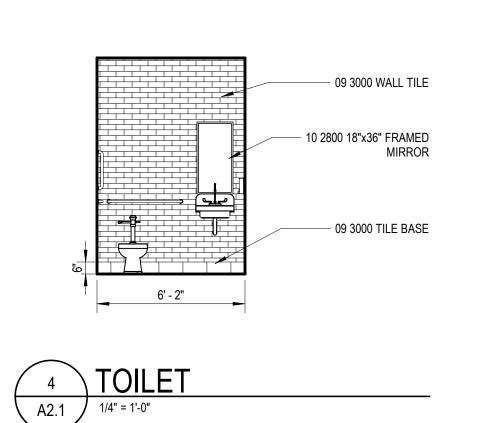
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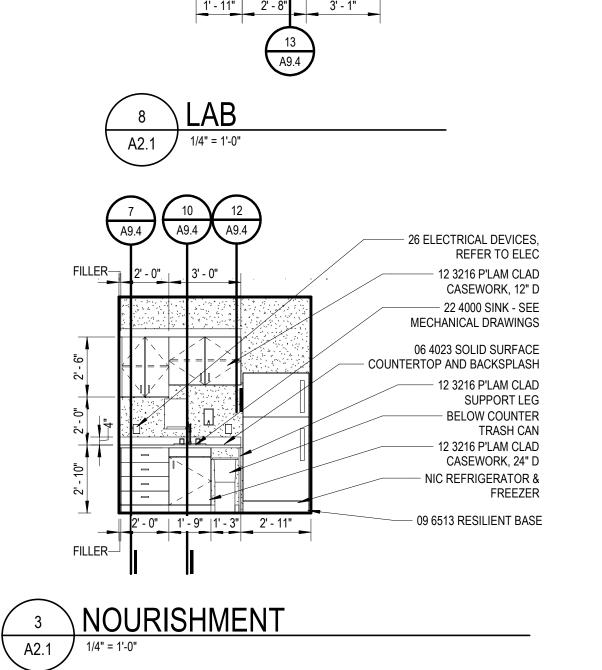
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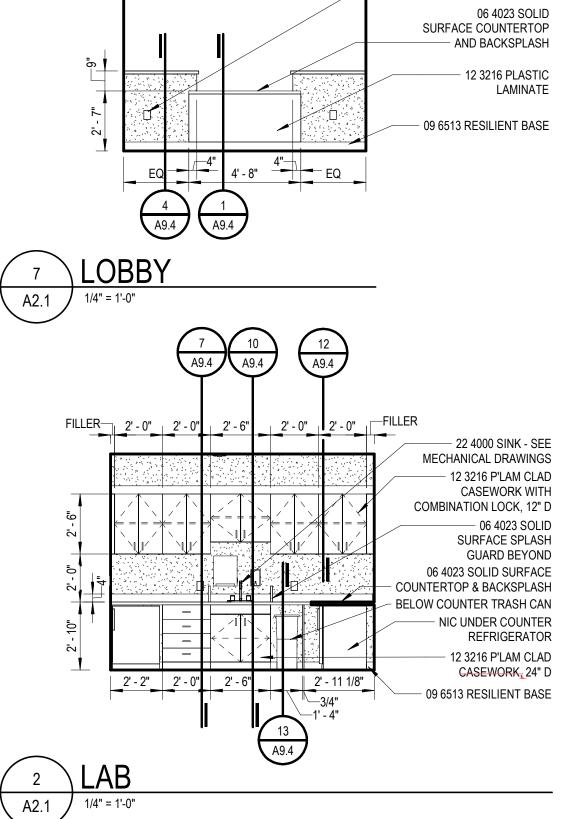
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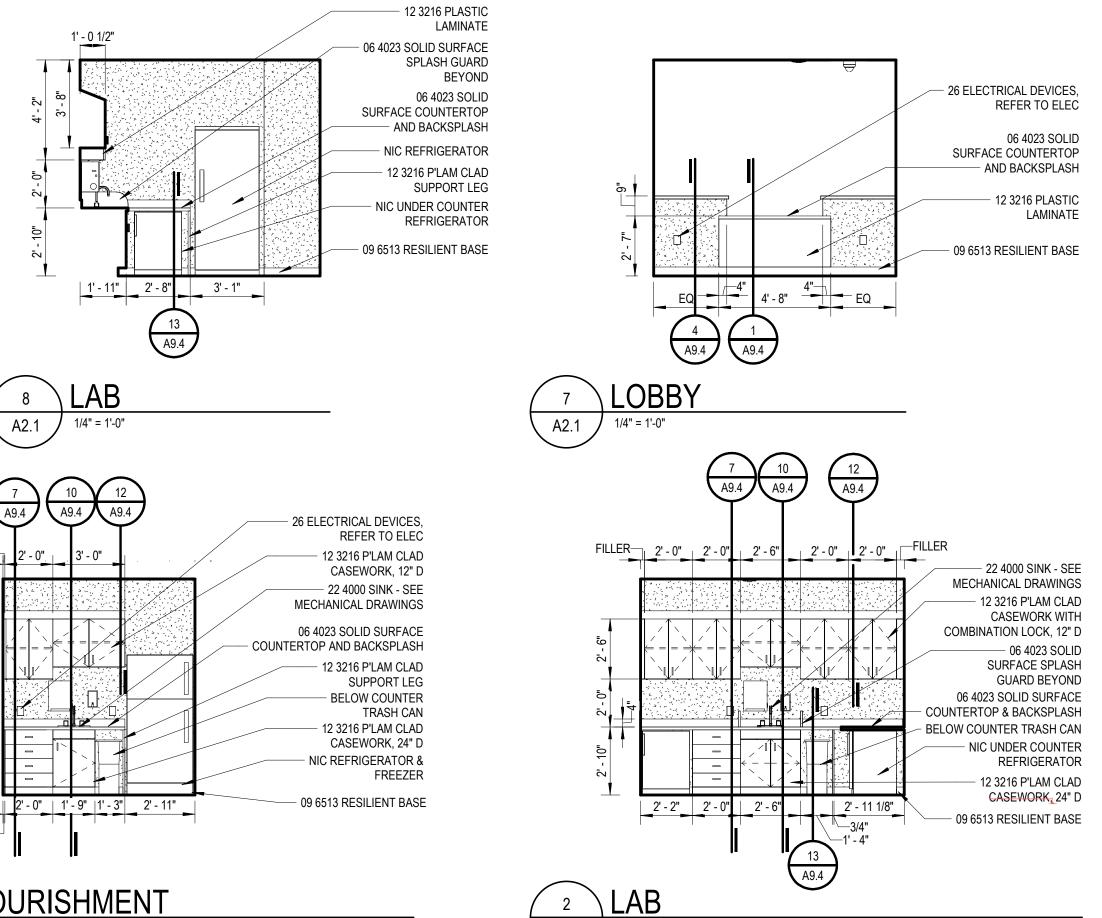
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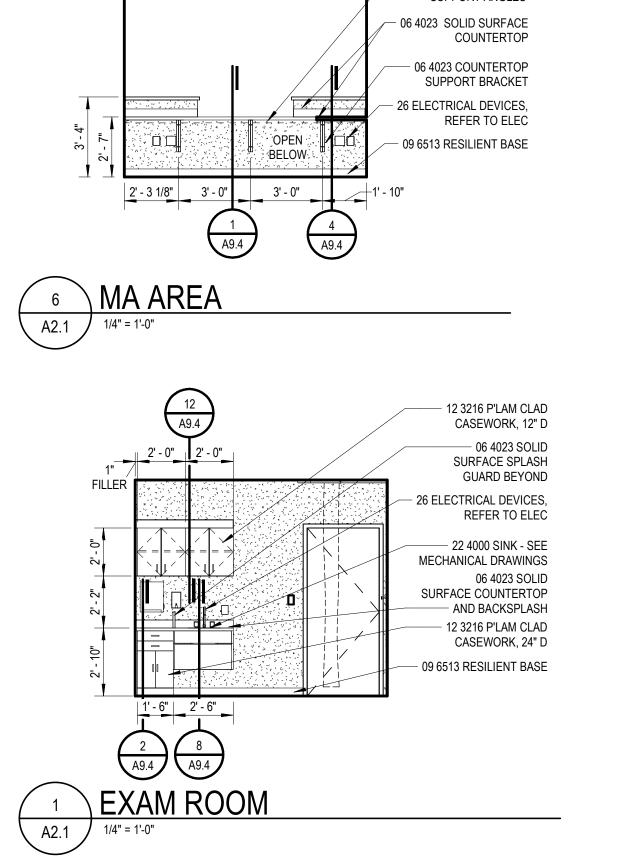












			SCHEDULE - CO	DLOR CODES			
COLOR CODES	PRODUCT / MATERIAL	MANUFACTURER	PRODUCT NAME / NUMBER	COLOR NAME / NUMBER	SIZE	FINISH	NOTES
(E)	EXISTING FINISH						
AC-01	ACOUSTICAL PANEL	USG	ECLIPSE 76575	WHITE	24" X 24" SQUARE EDGE		
B-01	RESILIENT BASE	ROPPE	PINNACLE RUBBER COVE BASE	BLACK 100	4"		
B-02	TILE BASE	AMERICAN OLEAN	THEORETICAL	CREATIVE GRAY	6" X 12" COVE BASE		
B-03	RESILIENT BASE			MATCH EXISTING			
CG-01	CORNER GUARD	CONSTRUCTION SPECIALITIES	VA200N	FOG 265			SURFACE MOUNTED; .040 THICKNESS
CPT-01	CARPET TILE	INTERFACE	DIFTWOOD	ELM 04861	25CM X 1M		ASHLAR INSTALLATION METHOD
CPT-02	CARPET (TILE/ BROADLOOM)			MATCH EXISTING			
FT-01	FLOOR TILE	AMERICAN OLEAN	THEORETICAL	CREATIVE GRAY	12" X 24"		1/3 OFFSET INSTALLATION
GYP-01	GYPSUM BOARD						
LN-01	LINOLEUM	FORBO	MARMOLEUM MARBLED REAL	EIGER 2629		TOPSHEILD PRO	
PL-01	PLASTIC LAMINATE	WILSONART		LOFT OAK 7968			
PT-01	PAINT	SHERWIN WILLIAMS		FROSTY WHITE SW6196			FIELD
PT-02	PAINT	SHERWIN WILLIAMS		CASCADE GREEN SW0066			ACCENT
PT-03	PAINT	SHERWIN WILLIAMS		MATCH EXISTING			
PT-04	PAINT	SHERWIN WILLIAMS		HIGH REFLECTIVE WHITE SW7757		FLAT	CEILING
PT-05	PAINT	SHERWIN WILLIAMS		PORTICO SW7548			ACCENT
SC-01	SHADE CLOTH	DRAPER	FLOCKE	BLANC 00600			
SS-01	SOLID SURFACE MATERIAL	CORIAN		ARTISTA CANVAS			
WD-01	WOOD	VT INDUSTRIES		WHITE OAK			
WT-01	WALL TILE	AMERICAN OLEAN	COLOR STORY WALL	BALANCE 14	3" X 6"		1/3RD OFFSET INSTALLATION

	SCHEDULE - WINDOW SHADES									
TYPE	LENGTH	WIDTH	HOUSING	MANUFACTURER	MATERIAL	MECHANISM	MOUNTING			
W1	4' - 0"	6' - 0"	0"	DRAPER	SC-01	MANUAL- SINGLE ROLLER	OUTSIDE TOP MOUNT, FASCIA WITH ENDCAPS			
W1: 1										
W2	4' - 0"	3' - 0"	0"	DRAPER	SC-01	MANUAL- SINGLE ROLLER	OUTSIDE TOP MOUNT, FASCIA WITH ENDCAPS			
W2: 3	,	,	•	•						

	SC	HEDULE	E - ROC	M FINIS	SH	
NUMBER	NAME	FLOOR	BASE	WALL	CEILING	REMARK
101	STORAGE	LN-01	B-01	PT-01	AC-01	4
102	NOURISHMENT	LN-01	B-01	PT-01	AC-01	1,4
103	EXAM NO. 1	LN-01	B-01	PT-01,PT-02	AC-01	1,4
104	EXAM NO.2	LN-01	B-01	PT-01,PT-02	AC-01	1,4
105	MA AREA	LN-01	B-01	PT-01	AC-01	1,4,8
106	LOBBY/ RECEPTION	LN-01	B-01	PT-01	AC-01	3,4,5
107	TELEHEALTH ROOM	LN-01	B-01	PT-01,PT-05	AC-01	1,4
108	LAB	LN-01	B-01	PT-01,PT-05	AC-01	1,4
109	TOILET	FT-01	B-02	WT-01	GYP-01,PT-04	4,6
110	STORAGE	LN-01	B-01	PT-01	GYP-01	1
111	PATIENT INTAKE	LN-01	B-01	PT-01,PT-05	AC-01	8
112	CORRIDOR	LN-01	B-01	PT-01	AC-01	1,8
H118	AV EQUIPMENT	CPT-02,(E)	B-03,(E)	PT-03	(E)	2,9
H120	THERAPY / SOCIAL WORK	CPT-01	B-01	PT-01,PT-05	(E)	4,5
H136	SCHOOL STORE	CPT-02,(E)	(E)	(E)	(E)	2

ABBREVIATIONS ROOM FINISH SCHEDULE AC PANEL ACOUSTICAL PANEL ACOUSTICAL CEILING TILE COLOR CODE CORNER GUARD CONCRETE MASONRY UNIT CERAMIC TILE CEM PLAS CEMENT PLASTER CONC DEFS CONCRETE DIRECT APPLIED EXTERIOR FINISH SYSTEM EXISTING FINISH EXTERIOR INSULATION FINISH SYSTEM EIFS EPT **EPOXY PAINT** E TERR EPOXY TERRAZZO ENTR MAT ENTRY MAT SYSTEM EXP CONST EXPOSED CONSTRUCTION FWC FABRIC WALL COVERING GF CMU GL CMU GROUND FACE CONCRETE MASONRY UNIT GLAZED CONCRETE MASONRY UNIT GYP BD HD/SLR GYPSUM BOARD HARDENER/ SEALER IR GYP BD IMPACT RESISTANT GYPSUM BOARD LIMEST LIMESTONE LINO LINOLEUM MULTI-COLORED COATING MCC METAL MTL PNL METAL PANEL P LAM PLASTIC LAMINATE PAVER T PAVER TILE PLAS PLASTER POL CONC POLISHED CONCRETE PORC T PORCELAIN TILE QUARRY TILE RAISED ACCESS FLOORING RUBBER TILE RESIN FLR RESINOUS FLOORING RESIL RESILIENT STRUCTURAL GLAZED FACING TILE SGFT SHT V SHEET VINYL SOLID SURFACE MATERIAL SSM ST STL STAINLESS STEEL STN TRAFFIC COATING TERR TERRAZZO VCT VINYL COMPOSITION TILE VINYL WALLCOVERING VEN PLAS VENEER PLASTER WOOD

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Van Buren Public Schools

501 W Columbia Ave

Belleville, MI 48111

Key Plan

RAHS Belleville High School

GENERAL NOTES

ROOM FINISH SCHEDULE

* REFER TO ABBREVIATIONS LIST FOR MATERIAL CODE DESCRIPTIONS A. "ROOM NUMBER AND ROOM NAME" CORRESPOND TO THE NUMBER AND NAMES INDICATED ON THE SHEETS.

B. "MATERIAL/FINISH" INDICATE THE SPECIFIC MATERIALS AND FINISHES TO BE USED TO CONSTRUCT AND FINISH THE FLOORS, BASE, WALLS AND CEILINGS.

C. "CC" INDICATES THE COLOR CODE FOR EACH MATERIAL AND/OR FINISH, REFER TO "COLOR CODES".

D. "REMARKS" INDICATES ANY SPECIAL REQUIREMENTS FOR THE MATERIAL AND FINISH IN A ROOM - SEE "ROOM FINISH SCHEDULE REMARKS".

E. "CEILING" IS THE MATERIAL AND FINISH AT THE UNDERSIDE OF THE FLOOR OR ROOF ABOVE. "SOFFIT" IS THE MATERIAL AND FINISH AT THE UNDERSIDE OF THE STAIR RUN.

F. REFER TO A10 SERIES FOR FLOOR TILE PATTERNS AND MATERIALS.

G. REFER TO A8 SERIES FOR INTERIOR ELEVATIONS.

H. "E" PREFIX TO THE "PT" CODE REFER TO EPOXY PAINT MATERIAL (E PT-XX).

REMARKS

ROOM FINISH SCHEDULE

1. PL-01 PLASTIC LAMINATE, SS-01 SOLID SURFACE

2. CPT-02 AT AREAS EFFECTED BY FLOOR TRENCHING 3. PT-03 AT DOOR INFILL LOCATIONS

4. TOUCH UP PAINT REQUIRED. PATCH/REPAIR/PAINT ALL LOCATIONS WHERE WALL MOUNTED ITEMS ARE REMOVED, INCLUDING BUT NOT LIMITED TO CLOCKS, ALARMS, WIREWAYS, ETC. OR WHERE SELECTIVE DEMOLITION OCCURS - COORDINATE EXTENTS WITH DEMO AND NEW

5. TRANSITION AT CARPET TO LINOLEUM OR CARPET TO EXISTING TO BE SCHLUTER RENO U AEU 100 IN SATIN ANODIZED ALUMINUM

6. GROUT AT FLOOR TILE TO BE TEC ACCUCOLOR EFX, COLOR; 939 MIST. GROUT AT WALL TILE TO BE TEC ACCUCOLOR EFX, COLOR: 949 SILVERADO. TRANSITION AT CERAMIC FLOOR TILE TO BE MARBLE THRESHOLD.

NOTE USED

8. CG-01, CORNER GUARDS. REFER TO ARCHITECTURAL PLANS

9. PT-03 AND B-03 AT NEW WALL CONSTRUCTION ONLY

Project Administrator A. Maurer Project Designer A. Pelfrey Project Architect / Engineer C. King Drawn By D. Sandle Q.M. Review N. LaForest Approved B. Sundberg Drawing Scale As Noted Issue Date Issued for Design Development 07-03-2024 Quality Management Review 01-09-2025 Bids 01-31-2025

 \circ 2025 integrated ${
m design}$ solutions, LLC

Room Finish Schedule

Drawing Number

A9.1

ī**D**§ Project Number

PARTITION
WIDTH - SEE PLAN
4 7/8" AT CMU
7/16"

FRAME - DOUBLE EGRESS HEAD

WIDTH - SEE PLAN

4 7/8" AT CMU

10 FRAME - DOUBLE EGRESS JAMB

FRAME - HM W/ GLASS

1 15/16" 2 1/4"

7/16" PARTITION WIDTH - SEE PLAN 4 7/8" AT CMU

PARTITION
7/16"—WIDTH - SEE PLAN
4 7/8" AT CMU
7/16"

7/16"——PARTITION
7/16"—WIDTH - SEE PLAN
4 7/8" AT CMU

FRAME - HM W/ GLASS

08 1113 HM FRAME

 $\left\langle \text{DR SCHED} \right\rangle 3" = 1'-0"$

08 1113 HM FRAME -

NOTE: LOCATE GLASS ON

THE SIDE OF THE FRAME

NUMBERED THE SAME AS THE FRAME/DOOR

FACING THE ROOM

08 1113 HM GLASS

08 8000 GLASS -REFER TO FRAME TYPES AND/OR SCHEDULE

DR SCHED 3" = 1'-0"

08 8000 GLASS -REFER

TO FRAME TYPES AND/OR SCHEDULE

08 1113 HM GLASS STOP —

08 1113 HM FRAME -

FACING THE ROOM

NOTE: LOCATE GLASS ON THE SIDE OF THE FRAME

NUMBERED THE SAME AS THE FRAME/DOOR

NOTE: LOCATE GLASS ON THE SIDE OF THE FRAME

NUMBERED THE SAME AS THE FRAME/DOOR

FACING THE ROOM

08 1113 HM GLASS

08 8000 GLASS -REFER TO FRAME TYPES AND/OR SCHEDULE ——

DR SCHED 3" = 1'-0"

STOP —

08 1113 HM FRAME ——

08 1113 HM FRAME ———

5 FRAME - HM

DR SCHED 3" = 1'-0"

STOP —

)00R	SCHE	DULE								
				DOC	OR					FRAME			DETAILS			DOOR			_
TH	S LEAF 1	IZE LEAF 2	HEIGHT	TYPE	MATERIAL	FINISH/ CC	FRGM	TYPE	MATERIAL	FINISH / CC	FRGM	HEAD	JAMB	SILL	HARDWARE SET		WALL RATING	REMARKS	
0"	3' - 0"	LL/ II Z	7' - 0"	F	WD	-	-	A	HM	PT-05	-	4/A9.2	4/A9.2	-	3.00	-	-	1	_
0"	3' - 0"		7' - 0"	F	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	-	2.01	-	-	1	
0"	3' - 0"		7' - 0"	F	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	-	2.01	-	-	1	
0"	3' - 0"		7' - 0"	G	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	3/A9.2	1.01	-	-	1, 2	
0"	3' - 0"		7' - 0"	N	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	-	2.01	-	-	1	
0"	3' - 0"		7' - 0"	N	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	-	2.02	-	-	1	
0"	3' - 0"		7' - 0"	F	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	3/A9.2	2.03	-	-	1	
0"	3' - 0"		7' - 0"	F	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	-	3.00	-	-	1	
0"	3' - 0"		7' - 0"	G	WD	-	-	Α	HM	PT-05	-	4/A9.2	4/A9.2	-	2.02	-	-	1	
^II	21 011		71 011		(5)	-			(5)	DT OF		-		4/40.0	4.00			4.0	

GENERAL	NOTES
DOOR SCHEDULE	

A. REFER TO THE DRAWINGS FOR DOOR LOCATIONS

B. "DOOR NUMBER" CORRESPONDS TO THE DOOR NUMBER INDICATED ON THE DRAWINGS. NOTE: AT EXISTING WALL OPENINGS, FIELD VERIFY SIZE OF DOORS AND FRAMES. C. (DOOR) "SIZE" INDICATES THE NOMINAL WIDTH AND HEIGHT OF THE

DOOR IN FEET AND INCHES. ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.

D. "DOOR AND FRAME TYPE/MATL/FINISH" INDICATES THE CODES FOR TYPE (INDICATED ON THE DRAWINGS), MATERIAL AND FINISH.

E. "CC" INDICATES THE COLOR CODE FOR FINISHES OF DOORS AND FRAMES, SEE "SCHEDULE - COLOR CODES".

F. "DETAILS HEAD- JAMB-SILL" INDICATES THE DETAIL NUMBER

INDICATED ON THE DRAWINGS. G. "HARDWARE SET" INDICATES HARDWARE SET NUMBERS SPECIFIED IN 08 7100 - DOOR HARDWARE.

H. "DOOR ASSEMBLY RATING" INDICATES THE MINIMUM FIRE RESISTANCE RATING FOR FIRE DOORS AND/OR SIDELITES. I. "WALL RATING" INDICATES THE FIRE RESISTANCE RATING OF THE

J. "FRGM" INDICATES FIRE-RATED GLAZING MARKINGS.

WALL CONTAINING THE DOOR.

K. "REMARKS" INDICATES ANY SPECIAL REQUIREMENTS FOR A DOOR AND FRAME - SEE "DOOR SCHEDULE - REMARKS". L. REFER TO HARDWARE SET #04.00 WITHIN SPECIFICATION SECTION 08 7100 FOR REQUIRED ADDITIONAL MISC EQUIPMENT.

REMARKS

DOOR SCHEDULE

 ACCESS CONTROL SYSTEM 2. LOCKDOWN BUTTON INTEGRATION

FIRE-RATED GLAZING ASSEMBLIES MARKING W MEETS WALL ASSEMBLY CRITERIA

OH | MEETS FIRE WINDOW ASSEMBLY CRITERIA INCLUDING THE HOSE STREAM TEST MEETS FIRE DOOR ASSEMBLY CRITERIA

MEETS FIRE DOOR ASSEMBLY "HOSE STREAM" TEST MEETS 450 DEG F TEMPERATURE RISE CRITERIA FOR 30 MINUTES NT DOES NOT MEET 450 DEG F TEMPERATURE RISE CRITERIA FOR 30

XXX TIME IN MINUTES OF THE FIRE RESISTANCE OR FIRE PROTECTION RATING OF THE GLAZING ASSEMBLY

ABBREVIATIONS

ADDILL & I	AIIONO
DOOR SCHEDULE	
ALUM	ALUMINUM
ANOD	ANODIZED
CC	COLOR CODES
(E)	EXISTING
FBR	FIBERGLASS
FRP	FIBERGLASS REINFORCED PANEL
FAC	FACTORY
GL	GLASS
180	180 MINUTES (3 HOUR)
90	90 MINUTES (1 1/2 HOUR)
60	60 MINUTES (1HOUR)
45	45 MINUTES (3/4 HOUR)
20	20 MINUTES (1/3 HOUR)
HM	HOLLOW METAL
HDWE	HARDWARE
MATL	MATERIAL
P LAM	PLASTIC LAMINATE
PT	PAINT
PVF	POLYVINYL FLUORIDE COATING (KYNAR)
STN	STAIN
ST STL	STAINLESS STEEL
STL	STEEL
WD	WOOL

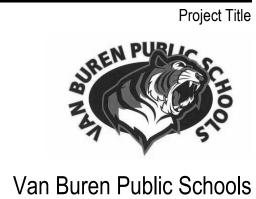
WOOD WIRE MESH



INTEGRATED design solutions architecture engineering interiors & technology 1441 west long lake, suite 200 troy, michigan 48098 5211 cascade road SE, suite 300 grand rapids, michigan 49546

248.823.2100

www.ids-michigan.com



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501 W Columbia Ave Belleville, MI 48111

> A. Maurer Project Designer

A. Pelfrey

C. King Drawn By A. Pelfrey

Q.M. Review

N. LaForest

B. Sundberg Drawing Scale

Issue Date

Bids 01-31-2025

Project Architect / Engineer

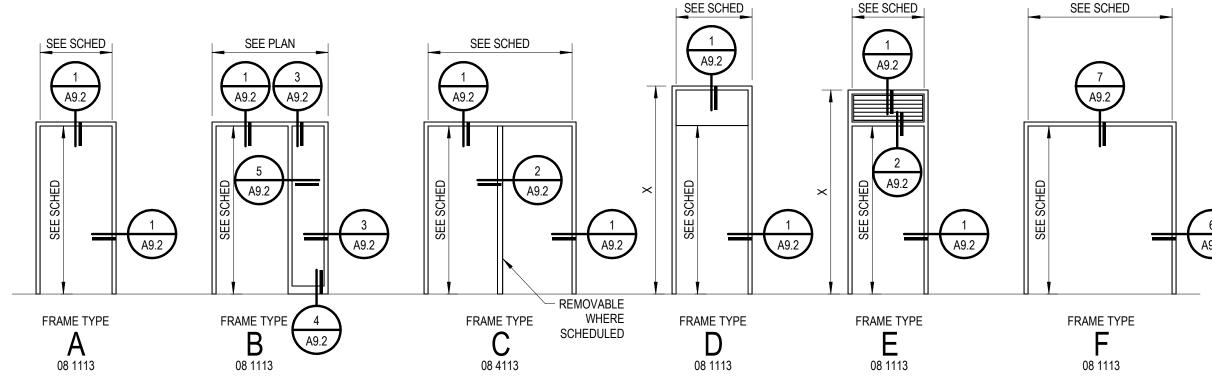
DOOR TYPE 08 1113 08 1416 🛨 08 1600 08 1613 (★ STILE WIDTH MIN IS 10" ON WOOD DOORS)

NOTE: ALL GLASS TO BE 1/4" SAFETY GLASS EXCEPT USE FIRE RATED GLASS AT FIRE RATED DOORS, SIDELITES, ETC., UON

DOOR TYPE

08 1416

08 1600 08 1613



NOTE: ALL GLASS TO BE 1/4" SAFETY GLASS EXCEPT USE FIRE RATED GLASS AT FIRE RATED DOORS, SIDELITES, ETC., UON

(REFER TO FRAME TYPE FOR FRAME PROFILE) 08 1113 FLOOR ANCHOR CLIP (BELOW) -- 08 1113 STUD JAMB ANCHOR CLIP-GROUT JAMB(HEAD SIM) 09 3000 MARBLE THRESHOLD (WIDTH OF DOOR AND FRAME AS SCHEDULED FRAME W/ 1:2 BEVEL -TYP) - 09 6516/6519 09 3000 CERAMIC TILE RESILIENT FLOORING (THIN SET) — TOP OF FLOOR SLAB SEE NOTES BELOW — DOOR AND FRAME AS SCHEDULED DOOR STOP -09 6543 EDGE STRIP -- 09 6516/6519 RESILIENT FLOORING 09 6816 CARPET OR 09 6813 CARPET TILE -SEE NOTES BELOW - DOOR AND FRAME AS SCHEDULED 09 6513 RESILIENT DOOR STOP -EDGE STRIP 09 6816 CARPET OR - 09 6816 CARPET OR 09 6813 CARPET TILE 09 6813 CARPET TILE

WIDTH - SEE PLAN

INTERSECTING WALL

CONDITION —

- PARTITION TYPE-REFER TO PLAN

07 9200 SEALANT

TOP OF FLOOR SLAB

08 1113 HOLLOW METAL FRAME

(BOTH SIDES)

FRAME TYPES

DOOR TYPE

08 1113

08 1416

08 1600

08 1613

08 1113 HOLLOW METAL 08 1416 FLUSH WOOD

08 1433 WOOD STILE & RAIL 08 1600 FRP COMPOSITE 08 1613 FIBERGLASS

08 4113 ALUMINUM AND GLASS STILE & RAIL 08 4126 ALL-GLASS (TEMPERED)

Door Schedule and Details

 \circ 2025 Integrated $ext{design}$ solutions, LL

Issued for

Quality Management Review 01-09-2025

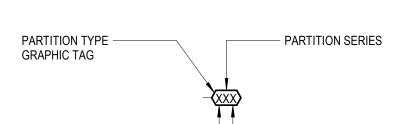
Design Development 07-03-2024

ī**D**§ Project Number

24167-1000

A9.2

- INTERIOR PARTITIONS
- "WALL" AND "PARTITION" ARE USED TO DENOTE EITHER WALLS OR PARTITIONS INTERCHANGEABLY. 2. REFER TO SHEET AR.0 - ARCHITECTURAL REFERENCE INFORMATION
- FOR ABBREVIATIONS, SYMBOLS, AND GRAPHIC INDICATIONS.
- 3. REFER TO COMPOSITE LIFE SAFETY PLANS FOR PARTITION FIRE RATINGS.
- 4. REFER TO ROOM FINISH SCHEDULE FOR WALL FINISHES AND WALL



 SIZE DESIGNATOR ASSEMBLY RATING — S = SMOKE PARTITION (SEE TABLE BELOW) 0 = NON-RATED 1 = 1-HR FIRE RATED 2 = 2-HR FIRE RATED 3 = 30 MIN FIRE RATED

MATERIAL	DESIGNATION SIZE	ACTUAL SIZE	SPACING
MASONRY	4	3 5/8 "	N/A
	6	5 5/8 "	
	8	7 5/8 "	
	12	11 5/8 "	
STEEL STUDS	1	1 5/8 "	16" OC
	2	2 1/2 "	
	3	3 5/8 "	
	4	4"	
	6	6"	
FURRING	0	7/8 "	16" OC
	1	1 5/8 "	
	2	2 1/2 "	
	3	3 5/8 "	
SHAFTWALL	2	2 1/2 "	24" OC
C-H STUDS	4	4"	
	6	6"	

- SUBSTITUTE 09 2900 TILE BACKING BOARD AT LOCATIONS TO RECEIVE A TILE WALL FINISH.
- 6. ALL NON-LOAD BEARING METAL WALL FRAMING SHALL BE BASED ON TOTAL STUD HEIGHT. REFER TO SPECIFICATION SECTIONS 05 4000 -COLD-FORMED METAL FRAMING, 09 2116 - GYPSUM BOARD SHAFT WALL ASSEMBLIES AND 09 2216 - NON-STRUCTURAL METAL FRAMING FOR ADDITIONAL REQUIREMENTS.
- 7. WHERE ROOMS WITH DIFFERENT PARTITION REQUIREMENTS ARE ADJACENT, THE PARTITION WITH THE GREATER FIRE-RATING AND/OR STC SHALL BE USED BETWEEN THEM.
- 8. AT INTERSECTIONS OF DIS-SIMILAR PARTITON TYPES, THE HIGHEST RATED PARTITION IS TO RUN THROUGH THE INTERSECTION TO MAINTAIN ENCLOSURE. MAINTAIN RATING OF RATED PARTITION AT INTERSECTION WITH COLUMN ENCLOSURES BY EXTENDING RATED CLOSURE AS REQUIRED.
- 9. FIRE-RATED PARTITIONS SHALL BE CONSTRUCTED ACCORDING TO THE FIRE TEST INDICATED. NO SUBSTITUTIONS OF MATERIALS OR DEVIATIONS FROM CONSTRUCTION ARE ALLOWED. ADDITIONAL LAYERS MAY BE REQUIRED FOR ACOUSTICAL OR OTHER REASONS AND MUST BE EXECUTED AS SHOWN.
- 10. STC RATINGS ARE MINIMUM ACOUSTICAL PERFORMANCE REQUIREMENT. SPECIFIC ACOUSTICAL TESTS ARE GIVEN FOR REFERENCE ONLY. SOUND ATTENUATION BLANKET THICKNESS SHALL BE AS FOLLOWS:
- A. 1 1/2 " FOR PARTITIONS WITH 1 5/8 " AND 2 1/2 " STUDS (INCLUDING SHAFTWALLS). B. 3" FOR PARTITIONS WITH 3 5/8 ", 4" OR 6" STUDS.
- C. 3" FOR SHAFTWALLS WITH 4" OR 6" STUDS UNO. D. AS REQUIRED FOR FIRE RATING.

11. DETAILS ARE DIAGRAMMATIC - PRECISE REQUIREMENTS OF TESTS ASSEMBLIES SHALL GOVERN.

Van Buren Public Schools

INTEGRATED design SOLUTIONS architecture engineering interiors & technology

1441 west long lake, suite 200

5211 cascade road SE, suite 300

grand rapids, michigan 49546

troy, michigan 48098

www.ids-michigan.com

248.823.2100

RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

	07 8413 HEAD OF WALL FIRE RESISTIVE JOINT SYSTEM AT RATED PARTITIONS	09 2900 SOUND ATTENUATION INSULATION
		O5 3100 STEEL DECK CLOSURE (CONT) WHERE EXPOSED TO VIEW
FACE OF WALL CONSTR REFER TO PLAN CEILING AS SCHEDULED	CONSTRUCTION AT VOIDS OF STEEL DECK ONLY 09 2216 SLOTTED DEFLECTION TRACK (SECURED TO DECK)	UNDERSIDE OF DECK 3/4" STRUCTURAL DEFLECTION ALLOWANCE
09 2216 METAL STUDS		—— CEILING AS SCHEDULED
09 2900 5/8" GYPSUM BOARD	09 2216 METAL STUDS	———— 09 2900 SOUND ATTENUATION INSULATION TO DECK ABOVE
09 2216 METAL RUNNER CHANNEL (SECURED TO FLOOR) BASE AS SCHEDULED 09 2900 ACOUSTICAL SEALANT (CONT)	09 2900 5/8" GYPSUM BOARD (2 LAYERS @ 2-HR FIRE RATED PARTITION) 09 2900 ACOUSTICAL SEALANT (CONT BOTH SIDES - OMIT WHEN CARPET RUNS UNDER PARTITION)	09 2216 METAL RUNNER CHANNEL (SECURED TO FLOOR) BASE AS SCHEDULED
1 1/2" OFO		0B2 1B2 3B2 UL U419
2 1/4" OF1 3 1/8" OF2 4 1/4" OF3	47/8" SB3 51/4" SB4 71/4" SB6	0B3 1B3 3B3 UL U419 0B4 1B4 3B4 UL U419 0B6 1B6 3B6 UL U419
4 <u>5/8"</u> OF4	5" 282	UL U411
6 5/8" (0F6)	6 1/8" 2B3	UL U411
	8 1/2" 2B4 \\ 2B6	UL U411 UL U411

PARTITION SERIES 'F'

PARTITION SERIES 'B'

Project Administrator A. Maurer Project Designer A. Pelfrey Project Architect / Engineer C. King A. Pelfrey Q.M. Review N. LaForest B. Sundberg Drawing Scale As Noted Issue Date Issued for Design Development 07-03-2024 Quality Management Review 01-09-2025 Bids 01-31-2025

Partition Types

 \circ 2025 Integrated $ext{design}$ solutions, LLC

ī **D** S Project Number

Drawing Number

24167-1000

A9.3

Van Buren Public Schools

501 W Columbia Ave

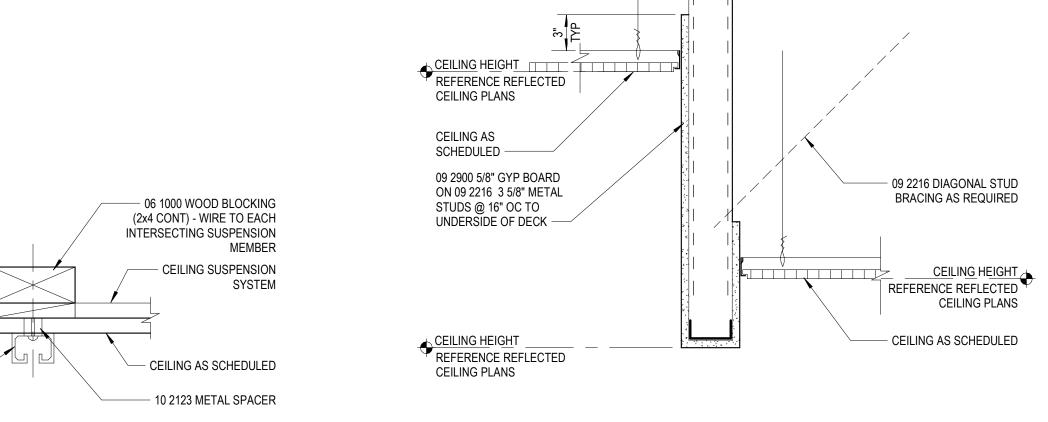
Belleville, MI 48111

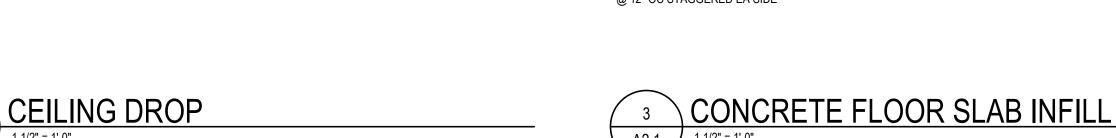
Project Administrator A. Maurer Project Designer A. Pelfrey

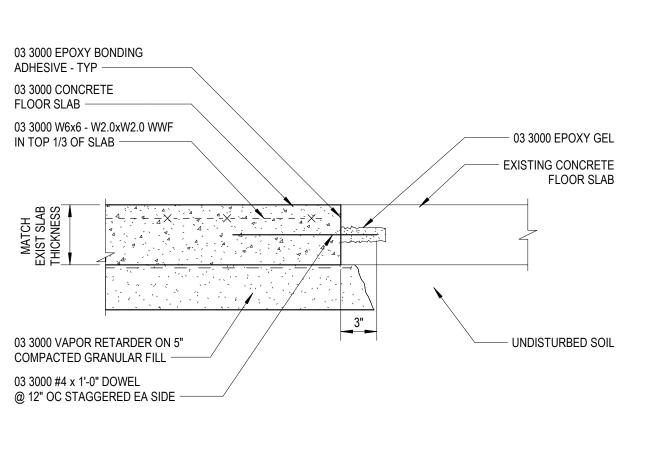
Project Architect / Engineer

C. King Drawn By A. Pelfrey Q.M. Review

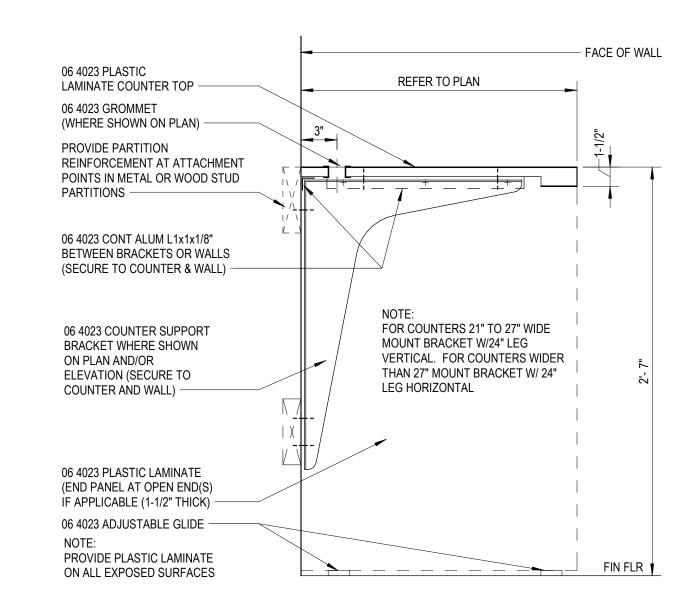
RAHS Belleville High School



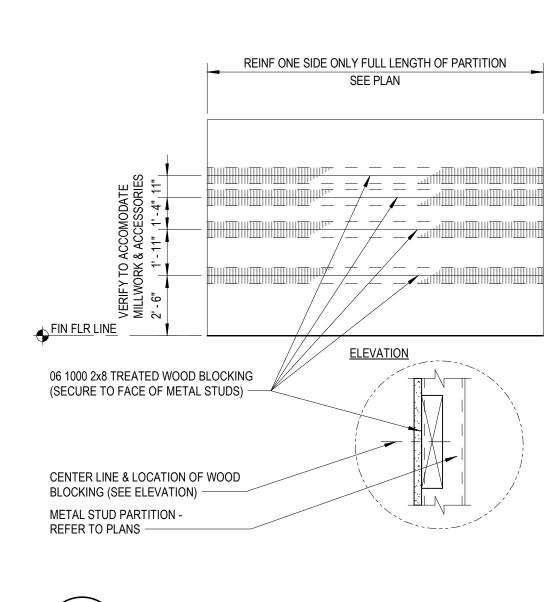














2' - 0"

10 BASE CABINET - SECTION DETAIL

12 3216 PLASTIC LAMINATE

SLOPED TOP

- 12 3216 P'LAM CLAD

- 22 4000 SINK - SEE MECHANICAL DRAWINGS

SURFACE COUNTERTOP - AND BACKSPLASH

06 4023 SOLID

- 12 3216 PLASTIC

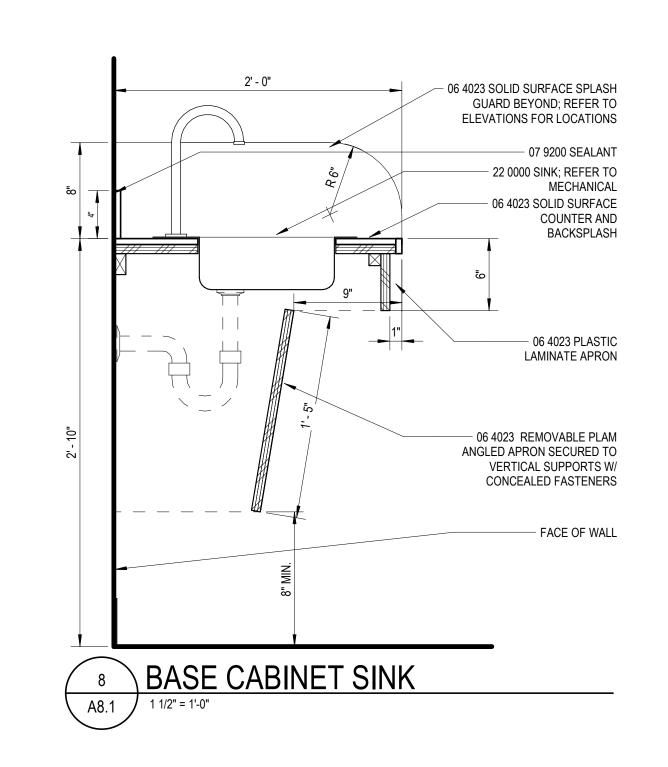
LAMINATE SINK

BASE CABINET

— 12 3216 PULL

COMBINATION LOCK, 12"D

CASEWORK WITH



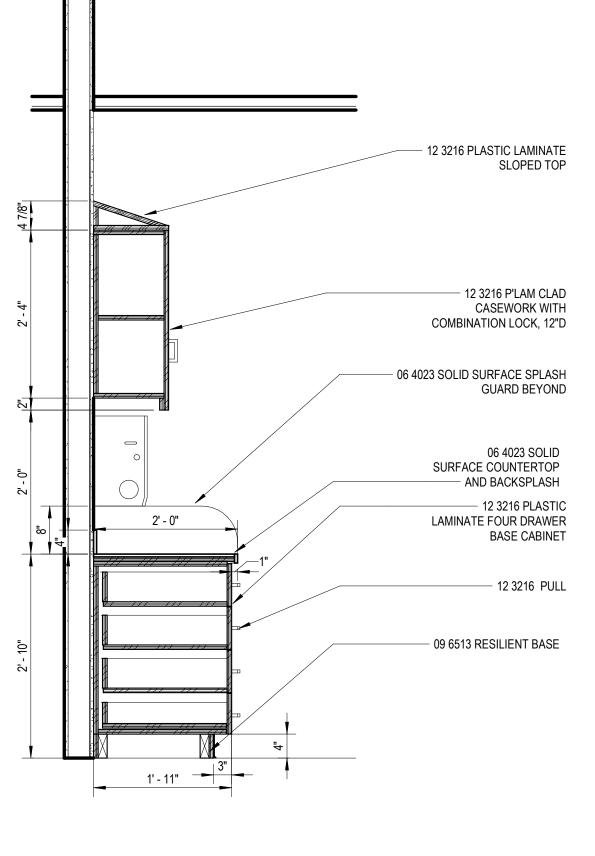
CUBICLE CURTAIN/ IV TRACK

06 1000 WOOD BLOCKING (SPACER AT ATTACHMENT

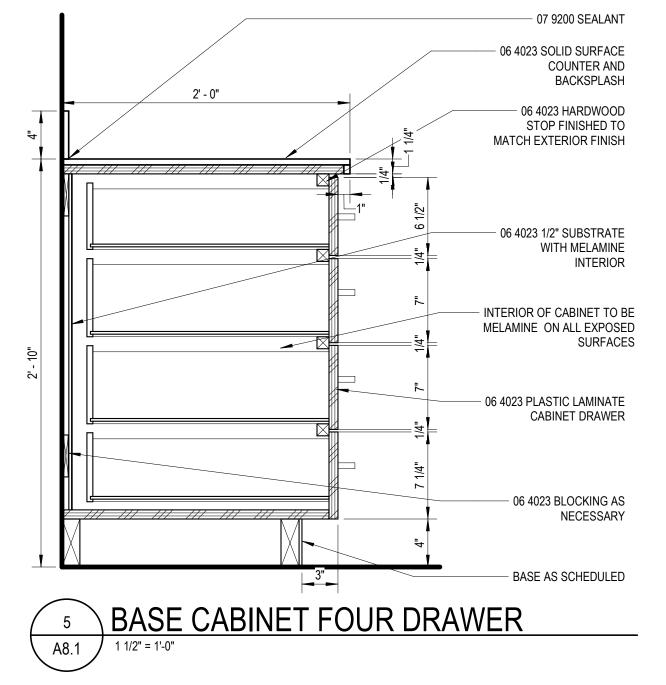
10 2123 CUBICLE CURTAIN OR 10 2123 IV TRACK

(SCREW TO 2x4 BLOCKING) -

POINTS ONLY) -







- 06 4023 SOLID SURFACE WALL CAP

-06 1000 TREATED WOOD

-07 9200 SEALANT --TYP

06 4023 SOLID SURFACE

- COUNTERTOP AND BACKSPLASH

— 06 4023 GROMMET (WHERE

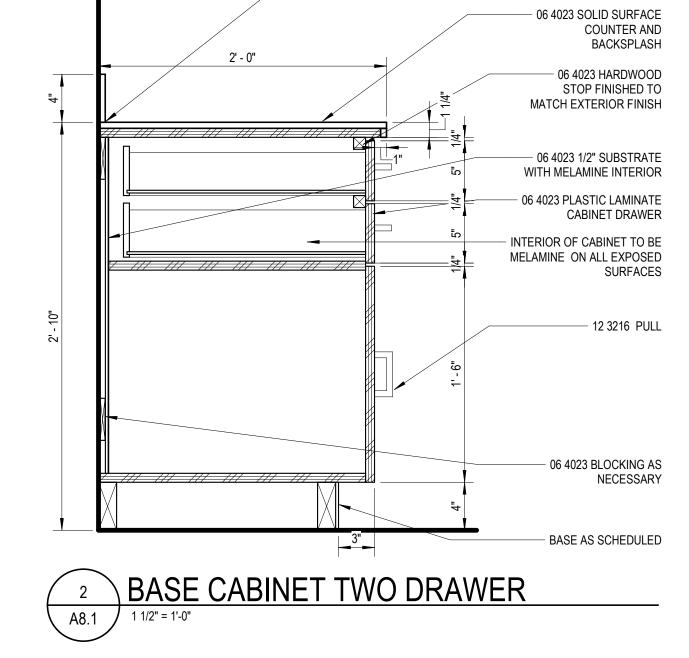
SHOWN ON PLAN)

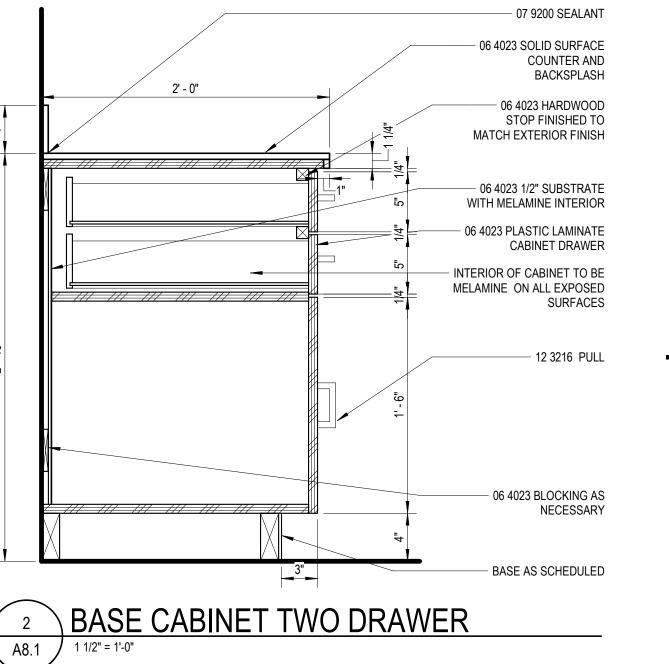
FIRST FLOOR 100' - 0"

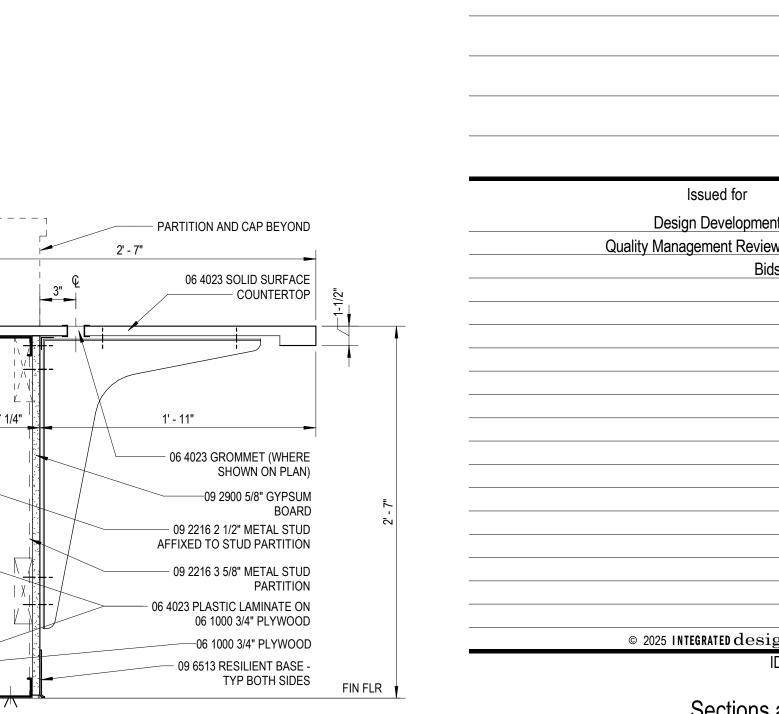
1' - 11"

BLOCKING

BOTH SIDES







A. Pel			
Q.M. Re			
N. LaFo			
Appro			
B. Sundb			
Drawing S			
As No			
Issued for Issue D			
Design Development 07-03-2		— PARTITION AND CAP BEYOND	r1
Quality Management Review 01-09-2		1	
Bids 01-31-2		00 4000 001 ID 01 IDEA 05	
		06 4023 SOLID SURFACE COUNTERTOP	3"
	_1-1/2"		
		1' - 11"	7 1/4" 13
		06 4000 CDOMMET (M/LIEDE	
		— 06 4023 GROMMET (WHERE SHOWN ON PLAN)	
	_	09 2900 5/8" GYPSUM	
	2' - 7	BOARD	
		O9 2216 2 1/2" METAL STUD AFFIXED TO STUD PARTITION	
		09 2216 3 5/8" METAL STUD PARTITION	
		- 06 4023 PLASTIC LAMINATE ON	
		06 1000 3/4" PLYWOOD	
\circ 2025 Integrated $ ext{design}$ solutions,		06 1000 3/4" PLYWOOD	
IDS Drawing 1		09 6513 RESILIENT BASE -	
	FIN FLR	TYP BOTH SIDES	
Sections and Deta			5% - /IL

12 3216 PULL	09 2216 PONY WALL SUPPORT
09 6513 RESILIENT BASE	09 2216 METAL STUD AND 09 2900 GYPSUM BOARD PARTITION
1'-11"	09 6513 RESILIENT BASE FIRST FLOOR 100' - 0"
	REFER TO TYPICAL COUNTER SUPPORT DETAIL 13/A9.4 FOR ADDITIONAL NOTING/CLARIFICATION
BASE CABINET - SECTION DETAIL	WALL SECTION DETAIL
3/4" = 1'-0"	A8.1 1 1/2" = 1'-0"

REFER TO 13/A9.4 FOR ADDITIONAL NOTING/CLARIFICATION

1 COUNTER (METAL BRACKET)
1 1/2" = 1'-0"

UPPER CABINET WITH SLOPE TOP

12
A8.1
11/2" = 1'-0"

CEILING; REFER TO RCP FOR

- 06 4023 PLASTIC LAMINATE

- 06 4023 1/2" SUBSTRATE WITH MELAMINE INTERIOR

- 06 4023 ADJUSTABLE SHELF W/

MELAMINE ON ALL EXPOSED

- 06 4023 PLASTIC LAMINATE

06 4023 BLOCKING AS NECESSARY

SLOPED TOP

SURFACES

CABINET DOOR

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GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE AND COLOR CODES FOR MORE INFORMATION.

09 3000 PORC FLOOR TILE FT-01

09 6813 CARPET TILE CPT-01

09 6813 CARPET TILE CPT-02

09 6516/6519 RESILIENT TILE LVT-01

FLOORING INSTALLATION DIRECTION

ACCENT MATERIAL, REFER TO COLOR CODES

FLOORING INSTALLATION METHOD - ASHLAR

FLOORING INSTALLATION METHOD - MONOLITHIC

FLOORING INSTALLATION METHOD - QUARTER TURN

FLOORING INSTALLATION METHOD - HERINGBONE

NOTE: FINISHES INDICATED IN ROOM FINISH TAGS ARE GENERAL OVERALL FINISHES FOR

REMARK, DETAIL AND/OR ELEVATION

ROOM UNLESS OTHERWISE INDICATED BY NOTE,

ROOM SPECIFIC FINISH REMARKS, REFER TO REMARKS LEGEND FOR ADDITIONAL INFORMATION

FLOOR MATERIAL TRANSITION TAG REFER TO A.9.2 FOR TRANSITION/ SILL DETAILS

Van Buren Public Schools

RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

Project Designer
A. Pelfrey

Project Architect / Engineer
C. King
Drawn By
D. Sandle
Q.M. Review
N. LaForest
Approved
B. Sundberg
Drawing Scale Issue Date Design Development 07-03-2024

Quality Management Review 01-09-2025

Bids 01-31-2025

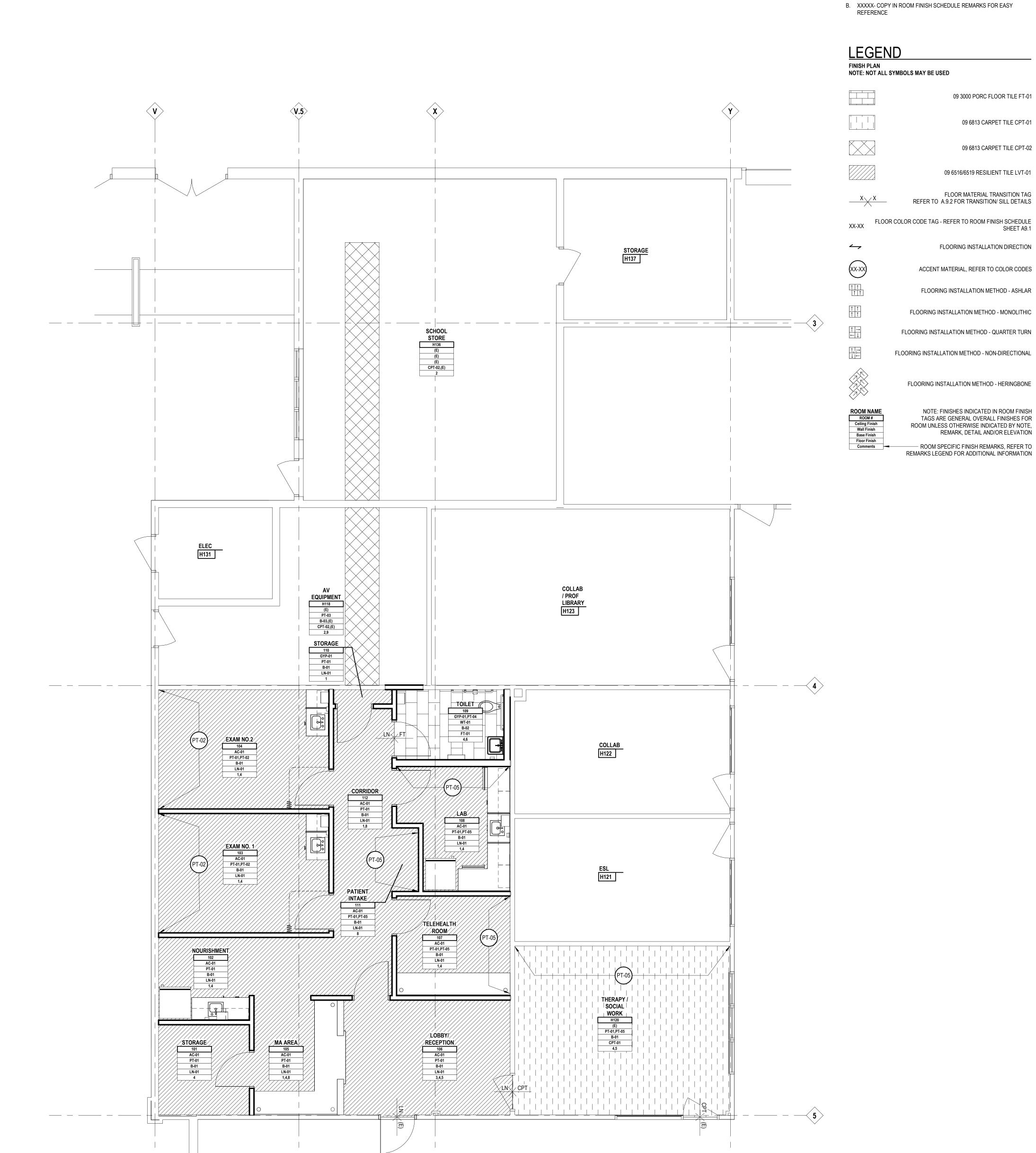
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m design}$ solutions, LL(

First Floor Finish Plan

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24167-1000

A10.1



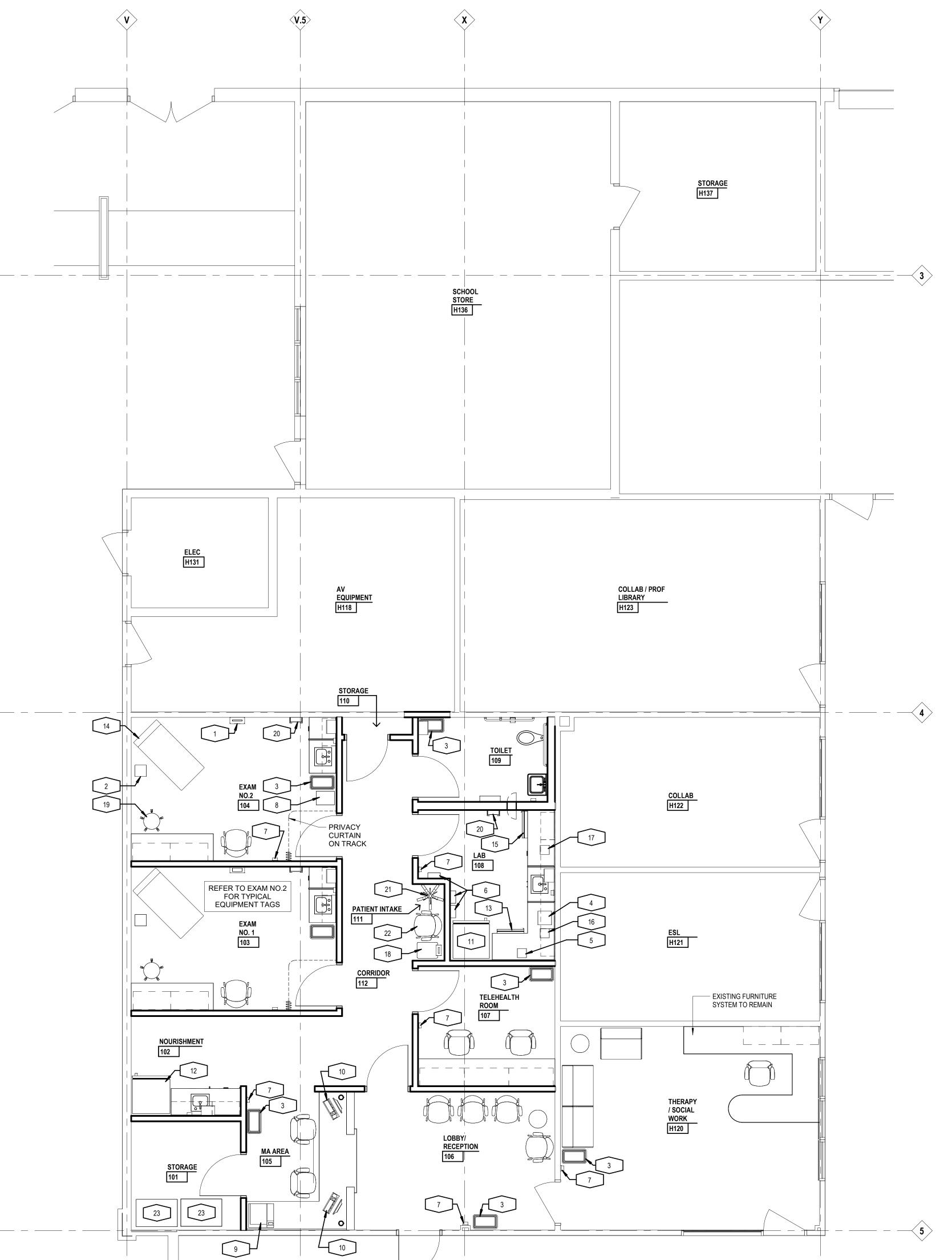
DOCUMENTS.

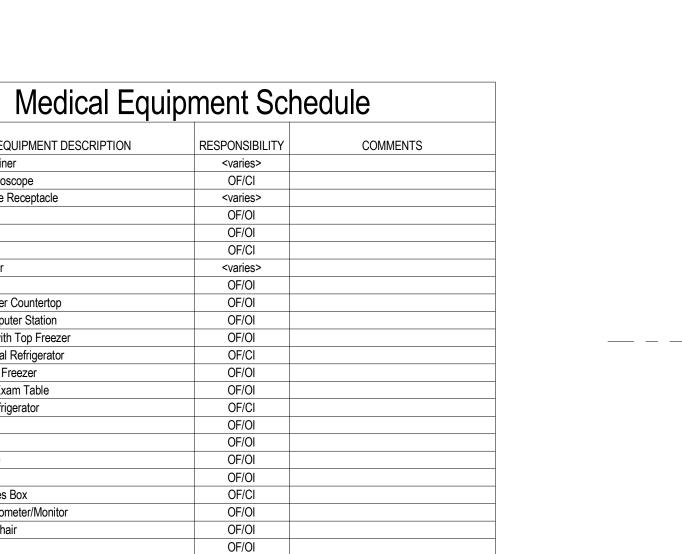
- FURNITURE FIXTURE AND EQUIPMENT PLAN

 A. ITEMS SHOWN IN GRAYSCALE ARE FOR REFERENCE ONLY.
- B. COORDINATE THE INTERFACING OF ALL TRADES WITH RESPECT TO DELIVERY AND INSTALLATION OF ALL FURNITURE, FIXTURES AND EQUIPMENT
- C. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BEFORE INSTALLATION. CONSULT ARCHITECT WHEN ACTUAL FIELD CONDITIONS VARY FROM THOSE SHOWN ON CONSTRUCTION
- D. COORDINATE LOCATIONS OF ALL REQUIRED UTILITIES WITH THE TRADE PROVIDING THE SAME. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.



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Oto/Ophthalmoscope

Medical Waste Receptacle

4 Centerfuge
5 Glucometer
6 Wall Bin
7 Hand Sanitizer
8 Step Stool
9 Printer/Scanner Countertop

10 Desktop Computer Station
11 Refrigerator with Top Freezer
12 Pharmaceutical Refrigerator
13 Undercounter Freezer
14 Barrier Free Exam Table
15 Specimen Refrigerator
16 Thermometer

17 Strep Test
18 Medical Scale
19 Rolling Stool
20 Medical Gloves Box

22 Blood Draw Chair 23 Storage Cart

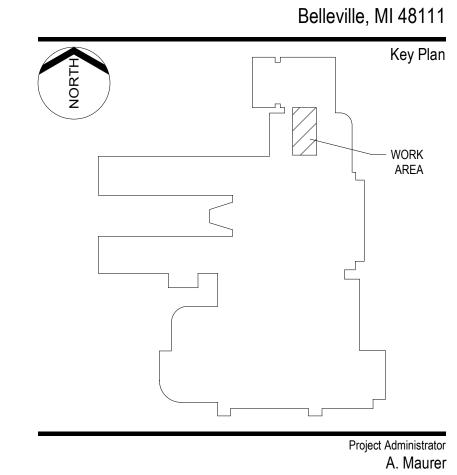
21 IV Stand/Manometer/Monitor

Project Title

Wan Buren Public Schools

RAHS Belleville High School

501 W Columbia Ave Belleville MI 48111



Project .	Architect / Engineer C. King
	Drawn By D. Sandle
	Q.M. Review
	N. LaForest
	Approved
	B. Sundberg
	Drawing Scale
	1/4" = 1' - 0"
Issued for	Issue Date
Design Development	07-03-2024
Quality Management Review	01-09-2025
Bids	01-31-2025

First Floor Furniture Plan

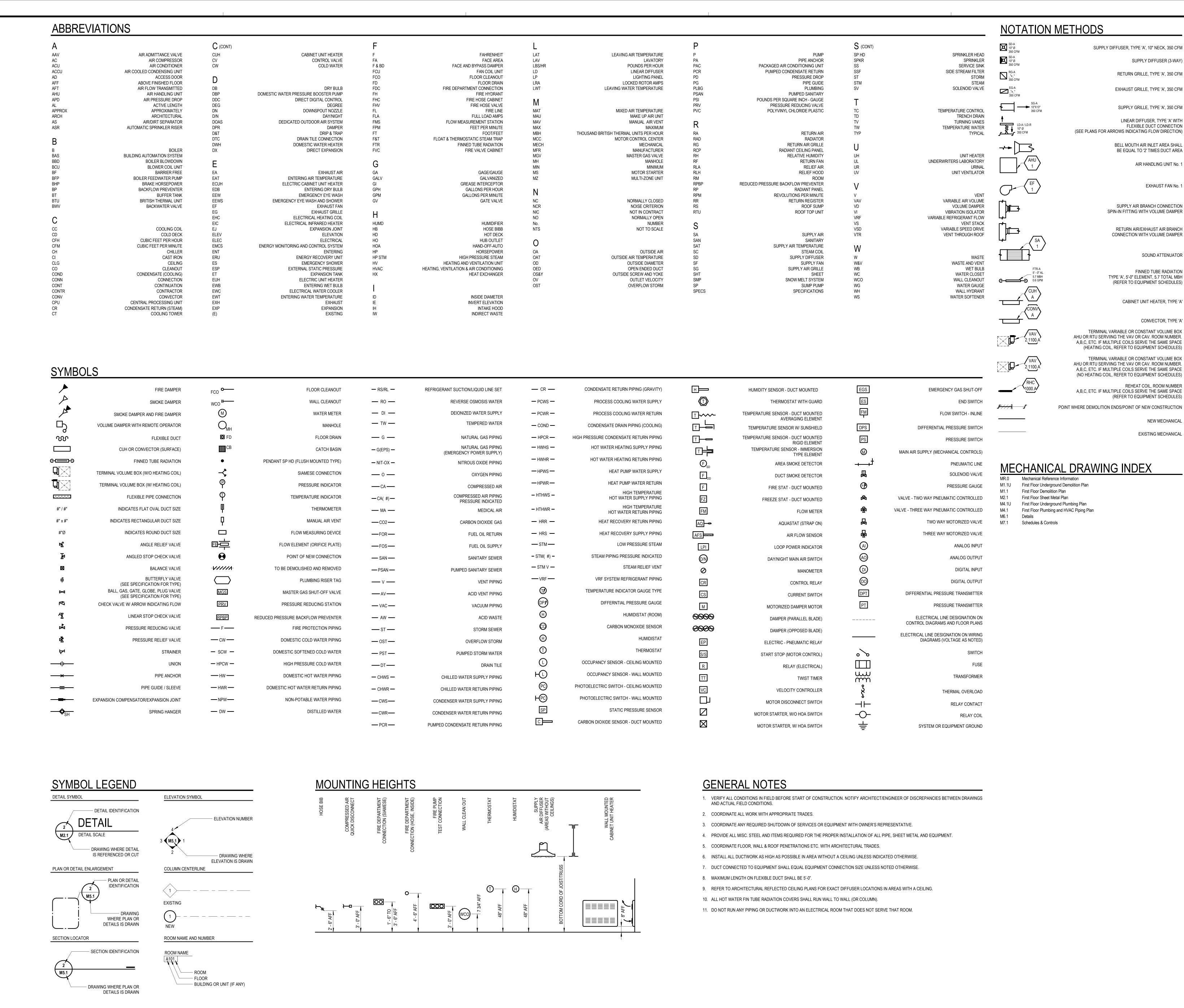
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For Reference Only

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24167-1000

F2.1



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SUPPLY DIFFUSER (3-WAY)

RETURN GRILLE, TYPE 'A', 350 CFM

EXHAUST GRILLE, TYPE 'A', 350 CFM

SUPPLY GRILLE, TYPE 'A', 350 CFM

LINEAR DIFFUSER, TYPE 'A' WITH

BELL MOUTH AIR INLET AREA SHALL

BE EQUAL TO '2' TIMES DUCT AREA

SUPPLY AIR BRANCH CONNECTION

RETURN AIR/EXHAUST AIR BRANCH

CONNECTION WITH VOLUME DAMPER

(REFER TO EQUIPMENT SCHEDULES)

CABINET UNIT HEATER, TYPE 'A'

REHEAT COIL, ROOM NUMBER

NEW MECHANICAL

(REFER TO EQUIPMENT SCHEDULES)

FLEXIBLE DUCT CONNECTION

AIR HANDLING UNIT No. 1

EXHAUST FAN No. 1

SOUND ATTENUATOR

FINNED TUBE RADIATION

CONVECTOR, TYPE 'A'

1441 west long lake, suite 200

5211 cascade road SE, suite 300

grand rapids, michigan 49546

troy, michigan 48098

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Van Buren Public Schools

RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

Project Administrato

A. Maurer

Project Designer

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS,

ABBREVIATIONS AND STANDARD INFORMATION SHOWN ON THIS

N. Moeggenborg Project Architect / Engineer N. Moeggenborg N. Moeggenborg Q.M. Review T. Vercruysse J. Schwartz Drawing Scale No Scale Issue Date Issued for Design Development 07-03-2024 Quality Managment Review 01-09-2025 BIDS 01-31-2025

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Mechanical Reference Information

ī**D**§ Project Number

Drawing Number

24167-1000

MR.0

KEYNOTES DEMOLITION

NOTE: NOT ALL KEYNOTES MAY BE USED # LEGEND SYMBOL INDICATOR

D1 REMOVE SINK, COLD WATER, HOT WATER, HOT WATER RETURN, SANITARY, AND VENT PIPING. CAP HOT WATER, COLD WATER, AN DHOT WATER RETURN AT MAIN.

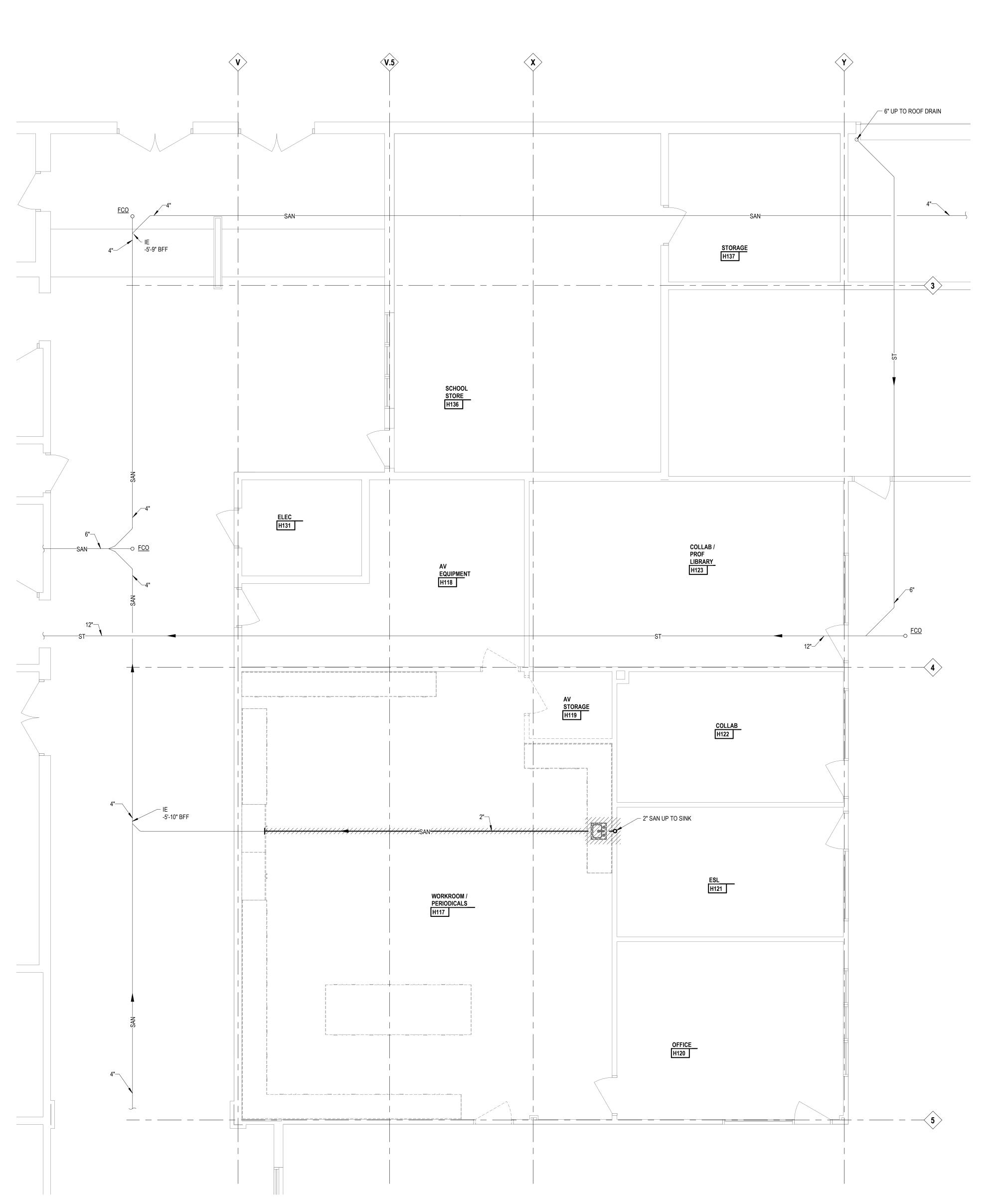
D2 REMOVE EXISTING FAN POWERED BOX AND ALL ASSOCIATED HVAC PIPING, DUCTWORK, CONTROLS, HANGERS, ETC. COMPLETE.



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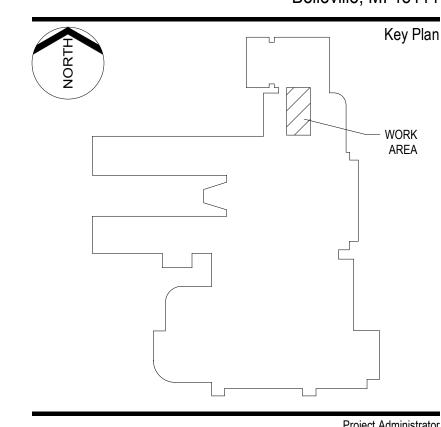
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N	. Moeggenborg
Project	Architect / Engineer
N	. Moeggenborg
	Drawn By
N	. Moeggenborg
	Q.M. Review
	T. Vercruysse
	Approved
	J. Schwartz
	Drawing Scale
	1/4" = 1'-0"
Issued for	Issue Date
Design Development	07-03-2024
Quality Managment Review	01-09-2025
BIDS	01-31-2025

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First Floor Underground Demolition Plan

ī**D**§ Project Number

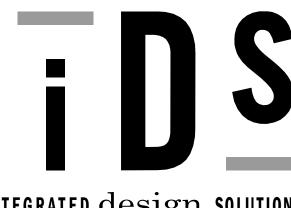
KEYNOTES DEMOLITION

NOTE: NOT ALL KEYNOTES MAY BE USED

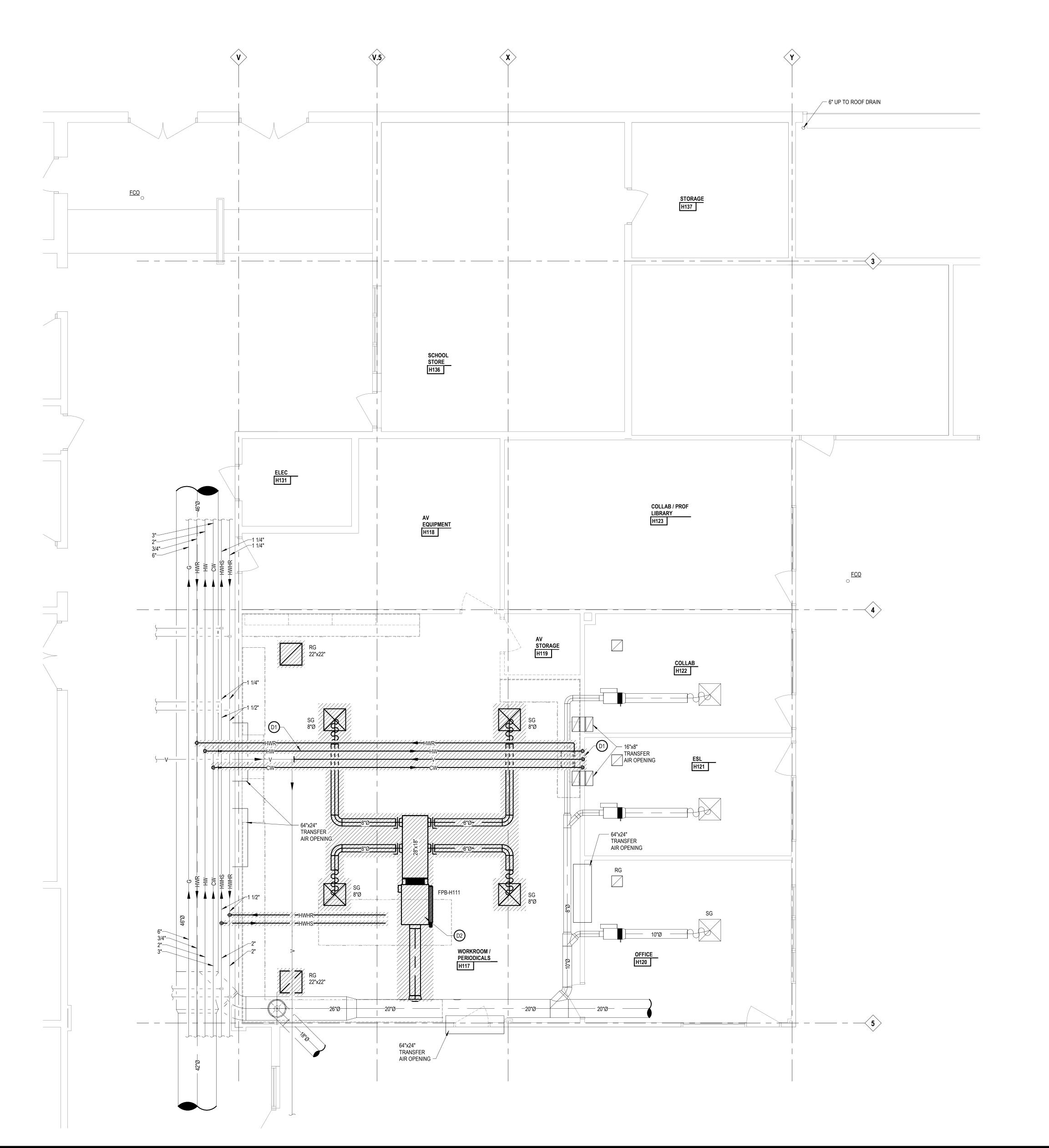
LEGEND SYMBOL INDICATOR

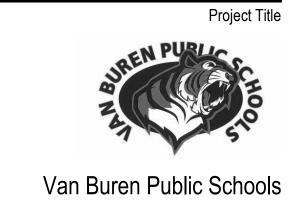
D1 REMOVE SINK, COLD WATER, HOT WATER, HOT WATER RETURN, SANITARY, AND VENT PIPING. CAP HOT WATER, COLD WATER, AN DHOT WATER RETURN AT MAIN.

D2 REMOVE EXISTING FAN POWERED BOX AND ALL ASSOCIATED HVAC PIPING, DUCTWORK, CONTROLS, HANGERS, ETC. COMPLETE.



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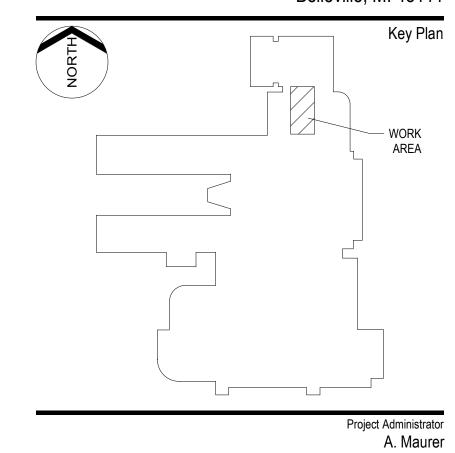




RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

Project Designer
N. Moeggenborg



Pr	oject Architect / Engine
	N. Moeggenbo
	Drawn I
	N. Moeggenbo
	Q.M. Revie
	T. Vercruyss
	Approve
	J. Schwar
	Drawing Sca
	1/4" = 1'-0
Issued for	Issue Dat
Design Developm	ent 07-03-202
Quality Managment Rev	iew 01-09-202
ВІ	IDS 01-31-202

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First Floor Demolition Plan

ī **D** S Project Number

Drawing Number

M1.1

24167-1000

NOTE: NOT ALL KEYNOTES MAY BE USED

LEGEND SYMBOL INDICATOR S1 REFER TO ARCHITECTURAL PLAN FOR CEILING REMOVAL.

S2 36"x14" OPENING AT TRANSFER DUCT TOP.

S3 10"x10" OPENING AT TRANSFER DUCT TOP.

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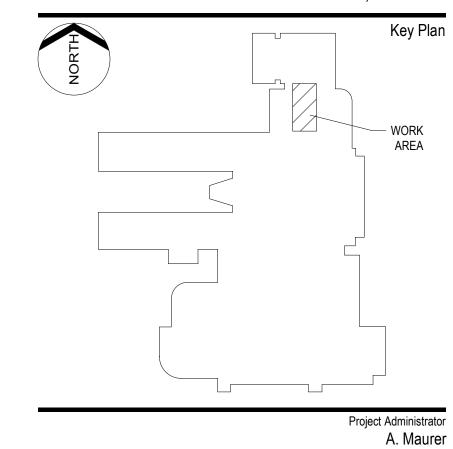
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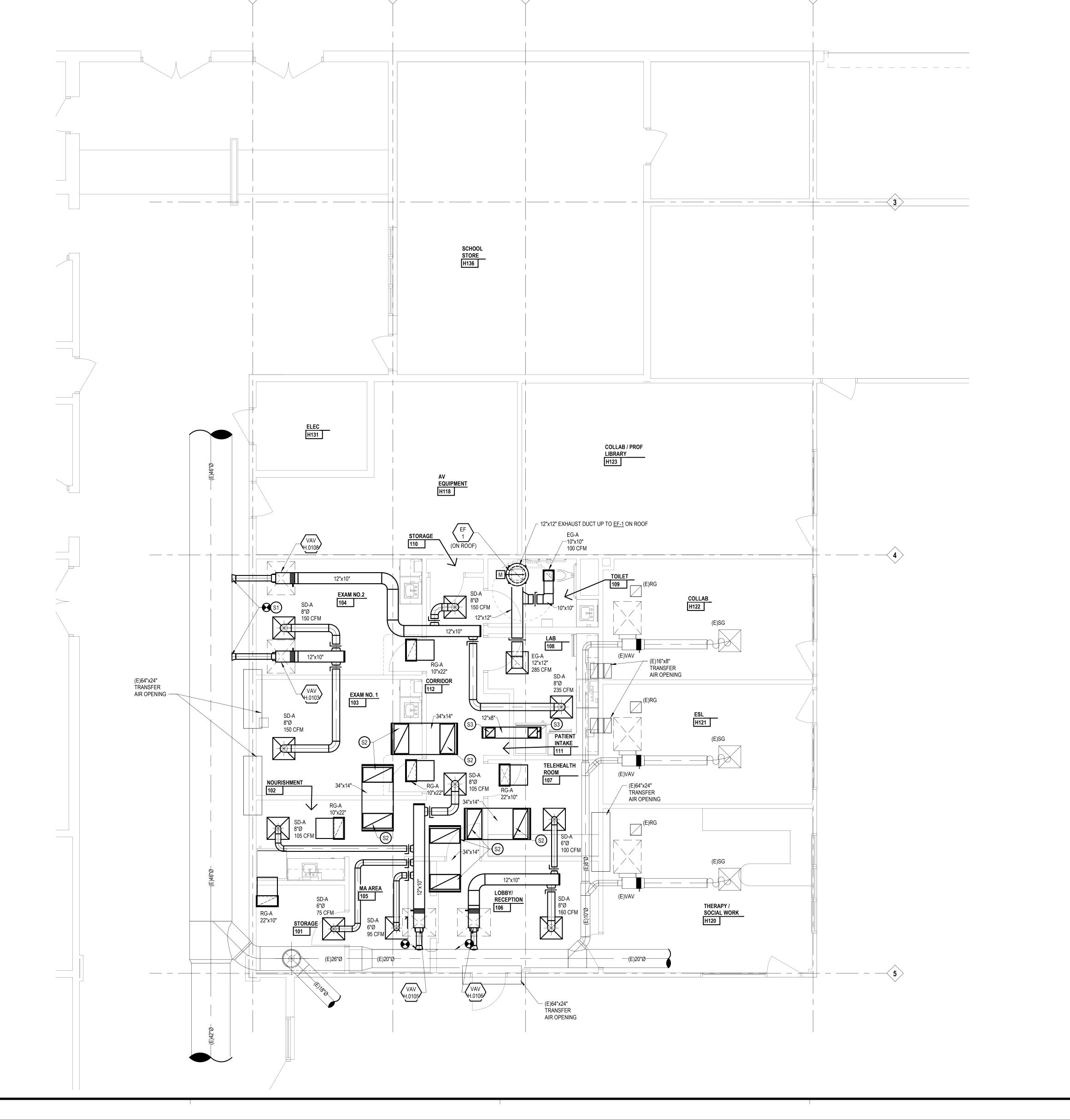
	7 t. ividui Ci
N	Project Designer
IN.	Moeggenborg
Project A	Architect / Engineer
N.	Moeggenborg
	Drawn By
N.	Moeggenborg
	Q.M. Review
	T. Vercruysse
	Approved
	J. Schwartz
	Drawing Scale
	1/4" = 1'-0"
Issued for	Issue Date
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Quality Managment Review	01-09-2025
BIDS	01-31-2025

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First Floor Sheet Metal Plan

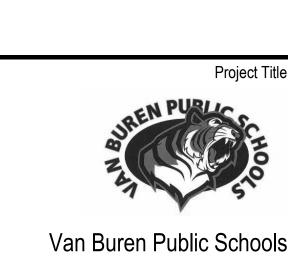
ī**D**§ Project Number

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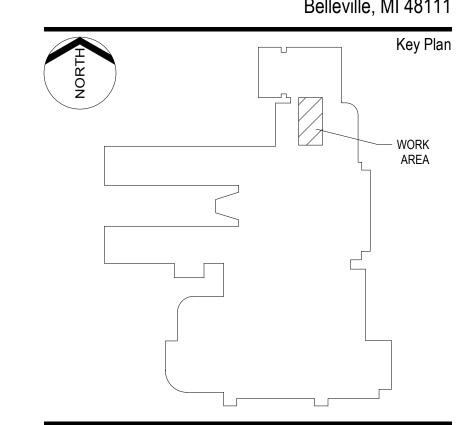
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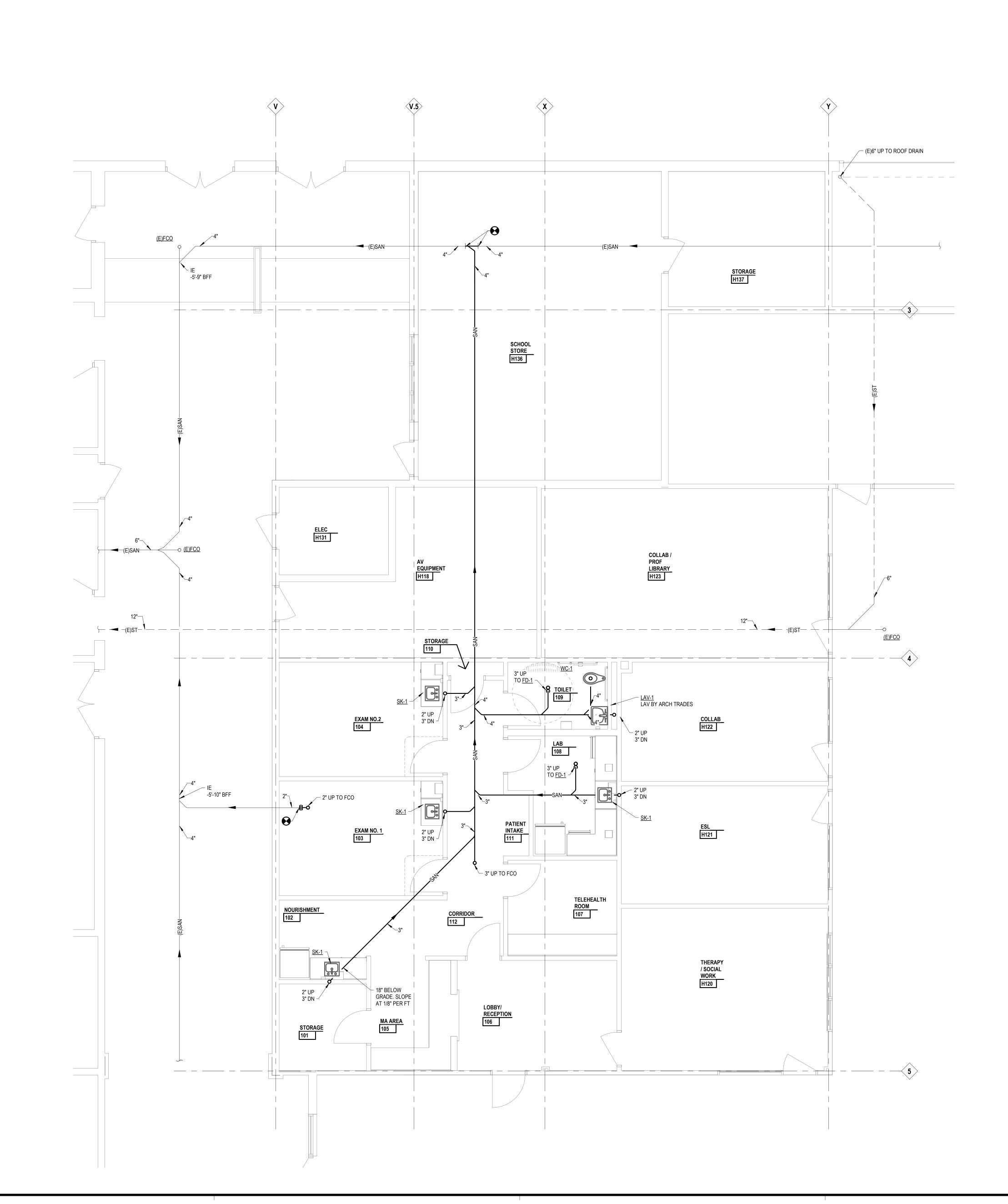
	Project Designe
N.	Moeggenborg
Project A	Architect / Enginee
N.	Moeggenborg
	Drawn B
N.	Moeggenborg
	Q.M. Review
	T. Vercruysse
	Approve
	J. Schwartz
	Drawing Scale
	1/4" = 1'-0
Issued for	Issue Date
Design Davidenment	07-03-2024
Design Development	01-03-2024
Quality Managment Review	01-03-202
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Quality Managment Review	01-09-202
Quality Managment Review	01-09-202
Quality Managment Review	01-09-202

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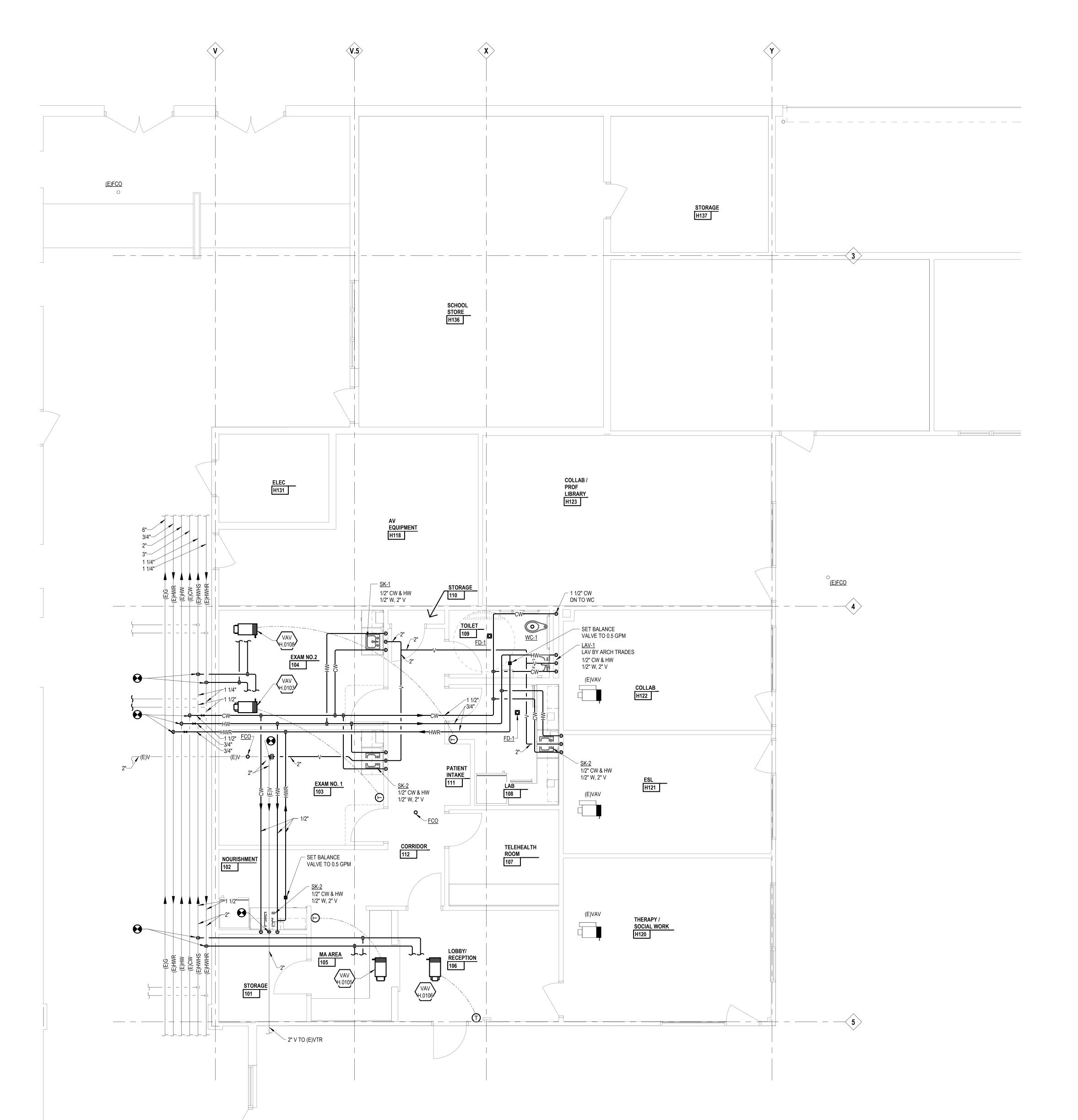
First Floor Underground Plumbing Plan

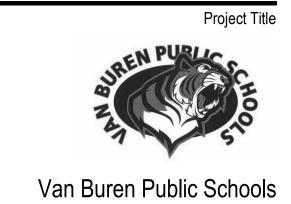
ī**D**§ Project Number

Drawing Number M4.1U 24167-1000





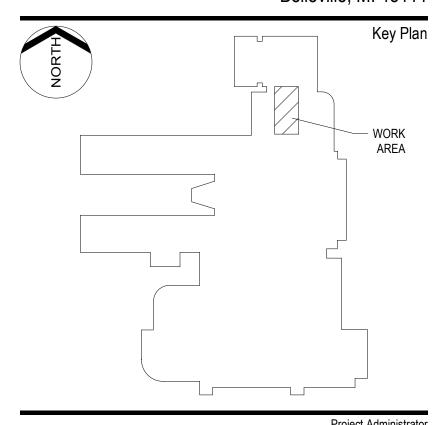




RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

A. Maurer



	A. Maulei
N	Project Designer . Moeggenborg
Project	Architect / Engineer
N	Drawn By . Moeggenborg
	Q.M. Review
	T. Vercruysse
	Approved J. Schwartz
	Drawing Scale 1/4" = 1'-0'
Issued for	Issue Date
Design Development	07-03-2024
Quality Managment Review	01-09-2025
BIDS	01-31-2025

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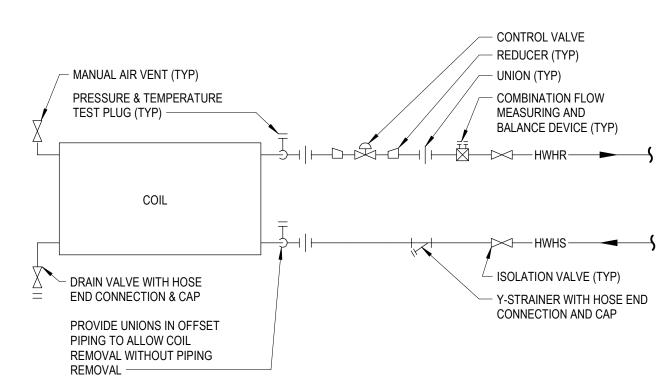
First Floor Plumbing and HVAC Piping Plan

ī**D**§ Project Number

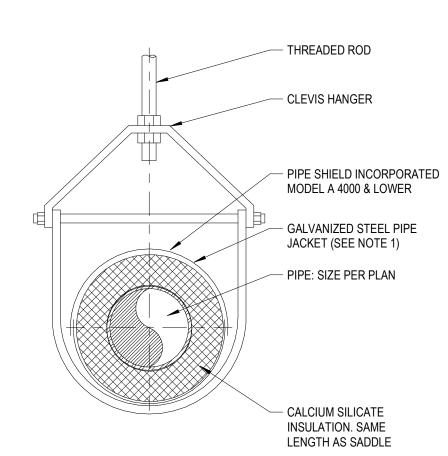
24167-1000

M4.1





TERMINAL HOT WATER HEATING COIL
WITH 2 - WAY CONTROL VALVE



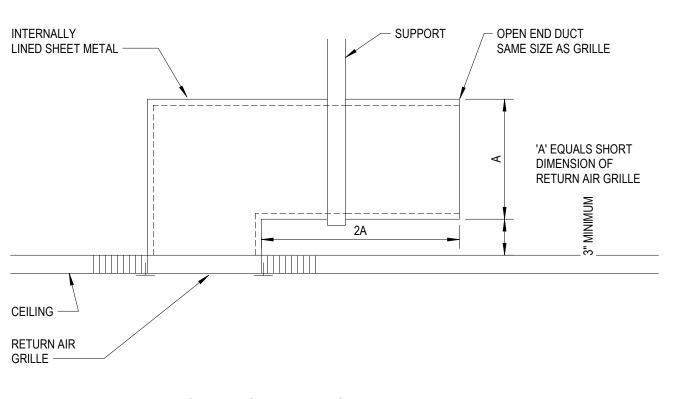
SINGLE PIPE SUPPORT (LESS THAN 4")

NOTES:

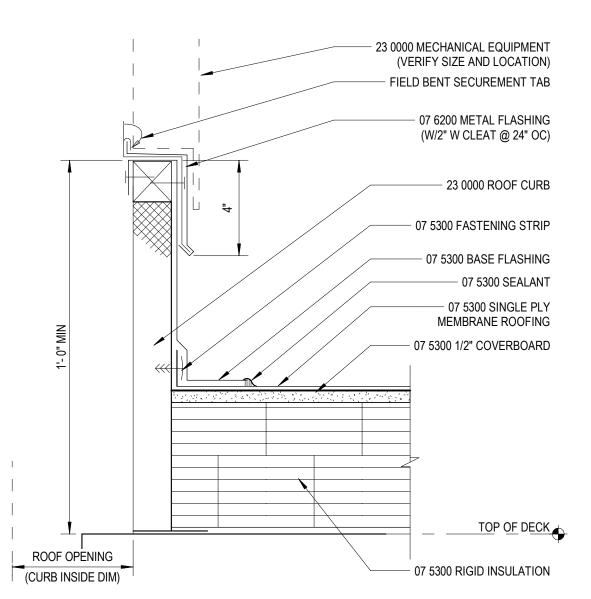
1. PROVIDE GALVANIZED SHEET METAL INSULATION JACKET AS FOLLOWS:

PIPE SIZE: LENGTH: GAUGE:

2" TO 4" 12" 18



TYPICAL CEILING RETURN
AIR GRILLE SOUND TRAP



ROOF CURB

MINERAL WALL INSULATION
TIGHTLY PACKED FOR FULL
DEPTH OF WALL

METAL PIPE SLEEVE

PIPE

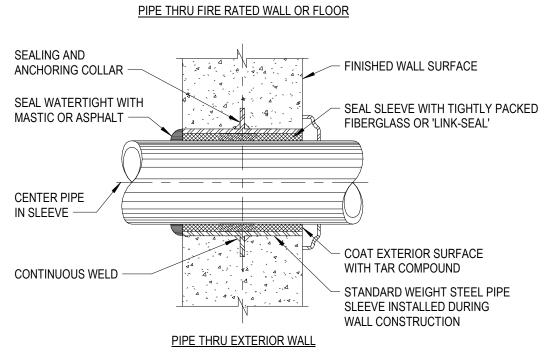
PARTITION

SINGLE PLY MEMBRANE ROOFING

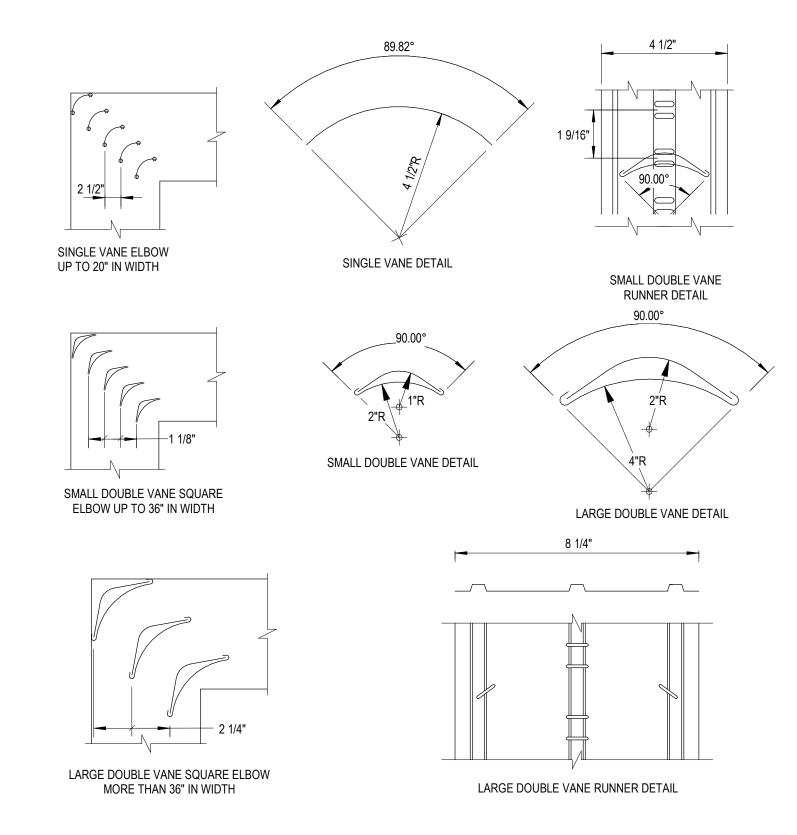
SEAL OR CAULK SLEEVE
THRU FIRE WALL IN A
SMOKE TIGHT MANNER.
PROVIDE U.L. LISTED
FIRE STOPPING SYSTEM

FINISHED EXCUTCHEON PLATE
FLUSH AGAINST WALL AND OF
SIZE TO COMPLETELY COVER
OPENING

FINISHED WALL SURFACE



PIPE PENETRATIONS



SQUARE AND RECTANGULAR ELBOWS - LOW VELOCITY
NO SCALE



Project To

Van Buren Public Schools

RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111 Key Plan

Project Administrator A. Maurer Project Designer N. Moeggenborg Project Architect / Engineer
N. Moeggenborg N. Moeggenborg Q.M. Review T. Vercruysse Approved J. Schwartz Drawing Scale No Scale Issue Date Issued for Design Development 07-03-2024 Quality Managment Review 01-09-2025 BIDS 01-31-2025

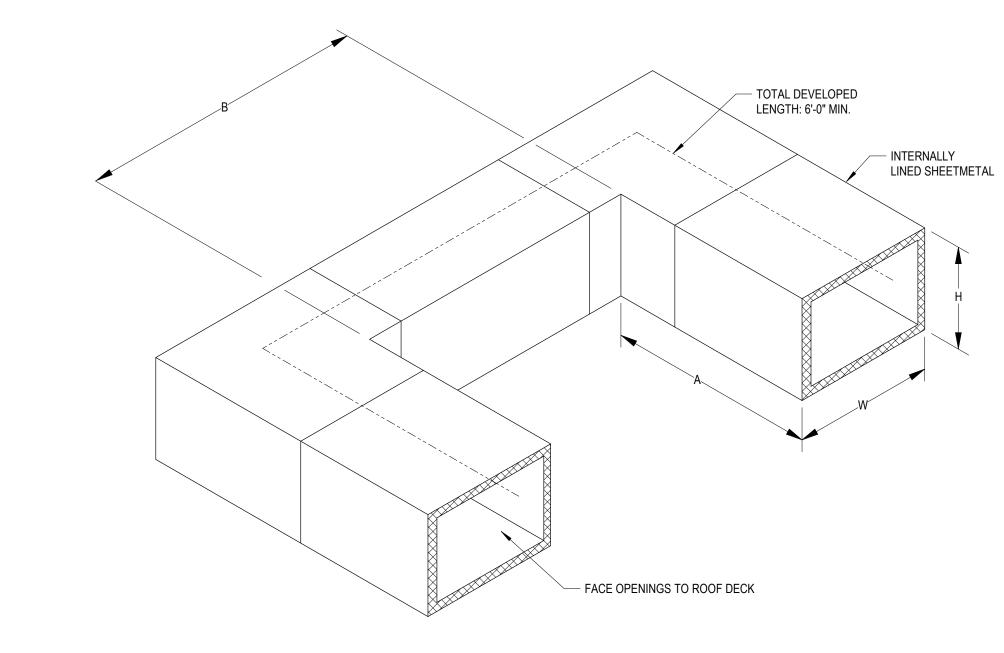
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Details

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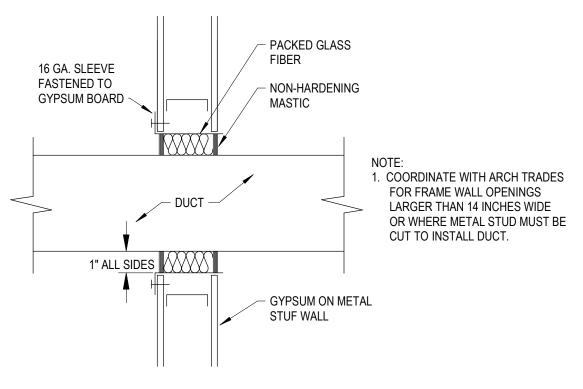
24167-1000

Drawing Number M6.1



DIMENSION 'A' SHOULD BE EQUAL TO OR GREATER THAN 'W'
DIMENSION 'B' SHOULD BE EQUAL TO OR GREATER THAN 1.5 X 'W'

TYPICAL TRANSFER AIR 'U-DUCT' DETAIL



DUCT SEAL AT NON-RATED WALLS
NO SCALE

Autodesk Docs.//Vari Bureri Fublic Scriodis (2023)/VBFS i

VARIABLE VOLUME TERMINAL WITH TEMPERING COIL SCHEDULE																			
		ROOM	MAX	MAX	MIN		OUTLET	MIN SP					HOT WATER TE	MPERING COIL					
MARK	HVAC SYSTEM	No. NAME	COOLING AIRFLOW (CFM)	HEATING AIRFLOW (CFM)	AIRFLOW (CFM)	INLET SIZE	DUCT SIZE	TO OPER. BOX	MAX NC	FLOW (GPM)	CAPACITY (MBH)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	MAX PD (FT HD)	COIL RUNOUT (IN.)	"PRICE" MODEL NO.	REMARKS
VAV - H.0103	(E)RTU-H101	103 EXAM NO. 1	300	210	210	6"	12"x8"	0.25	25	0.5	6.8	140	102	55	85	5	1/2	SDV	
VAV - H.0105	(E)RTU-H101	105 MA AREA	380	260	260	8"	12"x10"	0.25	27	0.5	8.5	140	100	55	85	5	1/2	SDV	
VAV - H.0106	(E)RTU-H101	106 LOBBY / RECEPT	TON 260	120	120	6"	12"x8"	0.25	25	0.5	3.9	140	97	55	85	5	1/2	SDV	
VAV - H.0108	(E)RTU-H101	108 LAB	385	385	385	8"	12"x10"	0.25	27	0.8	12.5	140	107	55	85	5	1/2	SDV	

1. MAX NC LEVEL BASED ON 1.5" INLET SP WITH NO ALLOWANCE FOR EXTERNAL ATTENUATION.

2. PROVIDE A 24"x24" CEILING MOUNTED ACCESS DOOR FOR ALL VARIABLE BOXES MOUNTED ABOVE INACCESSIBLE CEILINGS.

3. HOT WATER TEMPERING COILS SHALL BE MINIMUM 2-ROW.

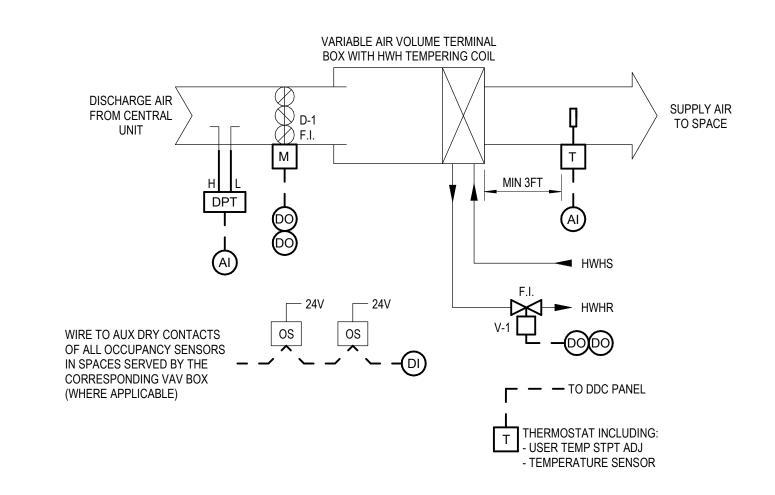
					FA	N SC	HEDL	JLE					
			DESIGN	EXTERNAL STATIC		FAN DATA			MOTOR DATA		ELECTRICAL	"GREENHECK"	
MARK	MARK LOCATION		AIRFLOW PRESSURE (IN. WG.)	TYPE	DRIVE	FAN RPM	HP	BHP	RPM	V/PH/HZ	MODEL No.	REMARKS	
EF-1	ROOF	LAB & TOILET	385	0.25	DOWNBLAST	DIRECT	1,373	1/6	0.08	1,725	208/1/60	G-095-VG	

1. PROVIDE ALL FANS WITH FACTORY MOUNTED AND WIRED DISCONNECT.

GRILLE, REGISTER AND DIFFUSER SCHEDULE										
MARK	CORE STYLE	BORDER FRAME TYPE	MODULE SIZE	FINISH	ACCESSORY	CONSTRUCTION	"PRICE" MODEL No.	REMARKS		
SD-A	PANEL	NOTE 1	24"x24"	WHITE	NONE	STEEL	SPD			
RG-A	PERFORATED	NOTE 1	24"x12"	WHITE	NONE	STEEL	PDDR			
EG-A	PERFORATED	NOTE 1	24"x24"	WHITE	NONE	STEEL	PDDR			
EG-B	PERFORATED	NOTE 1	24"x24"	WHITE	NONE	STEEL	PDDR			

1. COORDINATE MOUNTING FRAMES WITH REFLECTED CEILING PLANS.

2. ALL WALL AND DUCT MOUNTED GRILLES SHALL HAVE COUNTER-SUNK SCREWS.



VAV TERMINAL WITH HWH TEMPERING COIL CONTROL DIAGRAM

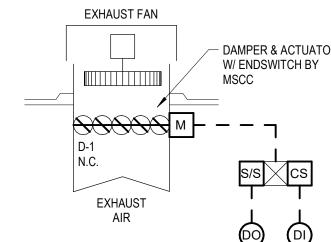
WHERE APPLICABLE, OCCUPANCY SENSORS TO BE INSTALLED, POWERED, AND CONNECTED TO LIGHTING CONTROLS BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL SYSTEMS CONTROLS CONTRACTOR (MSCC) SHALL CONNECT ALL OCCUPANCY SENSORS IN SPACES SERVED BY THE CORRESPONDING VAV BOX TO THE VAV CONTROLLER SUCH THAT ALL SPACES MUST BE SIMULTANEOUSLY UNOCCUPIED IN ORDER TO INDICATE UNOCCUPIED STATUS IN THE VAV CONTROLLER.

SEQUENCE OF OPERATION

- 1. THE OPERATING MODE OF THE TERMINAL UNIT SHALL BE AUTOMATICALLY CYCLED BETWEEN OCCUPIED AND UNOCCUPIED MODE TO MATCH THE OCCUPANCY MODE OF THE ASSOCIATED
- 2. WHERE APPLICABLE, WHEN THE TIME SCHEDULE INDICATES OCCUPIED AND CONNECTED OCCUPANCY SENSORS INDICATE THE SPACE IS UNOCCUPIED, THE UNIT SHALL OPERATE IN STANDBY MODE.
- 3. UPON NO DEMAND FOR HEATING OR COOLING, THE DAMPER SHALL CONTROL AIRFLOW TO THE MINIMUM AIRFLOW CFM SETPOINT. 4. UPON A RISING DEMAND FOR COOLING, THE DAMPER SHALL CONTROL TOWARDS THE
- MAXIMUM COOLING AIRFLOW CFM SETPOINT. 5. UPON A RISING DEMAND FOR HEATING, FIRST THE HEATING CONTROL VALVE SHALL INCREASE HEATING TOWARDS MAXIMUM. UPON A FURTHER DEMAND FOR HEATING, THE DAMPER SHALL CONTROL AIRFLOW TOWARDS THE MAXIMUM HEATING AIRFLOW CFM SETPOINT.

OCCUPIED MODE OPERATION

- 1. THE UNIT SHALL CONTROL TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE RANGE (70°F TO 75°F). LOCAL TEMPERATURE SETPOINT ADJUSTMENT SHALL BE DISABLED. 2. UNITS SERVING PRIVATE OFFICES SHALL PERMIT LOCAL OCCUPIED SPACE TEMPERATURE SETPOINT ADJUSTMENT AND SHALL CONTROL TO MAINTAIN THE SET THERMOSTAT TEMPERATURE SETPOINT.
- UNOCCUPIED MODE OPERATION 1. THE UNIT SHALL CONTROL TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE RANGE (60°
- STANDBY MODE OPERATION
- THE UNIT SHALL CONTROL TO MAINTAIN THE STANDBY SPACE TEMPERATURE RANGE (65°F TO 80°F).



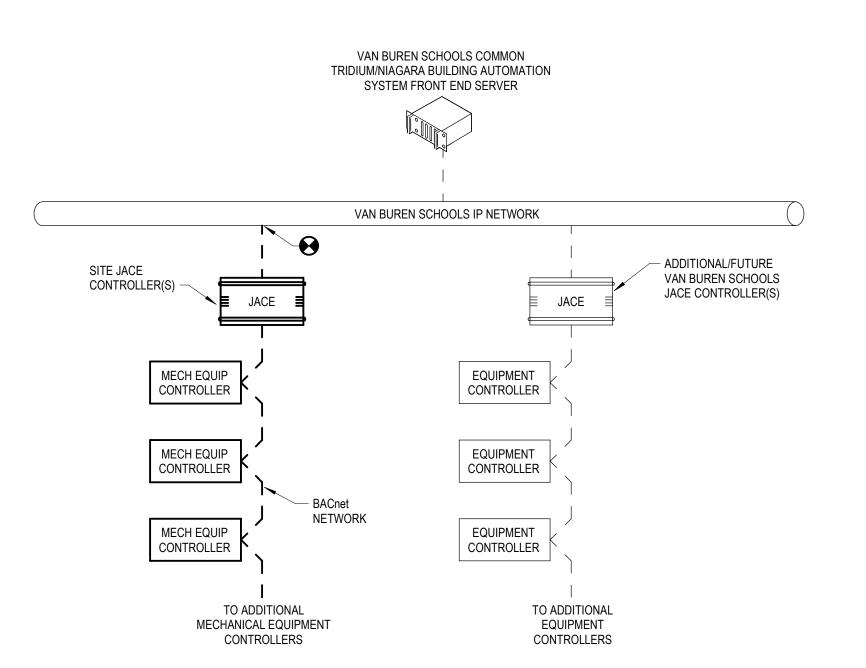
ROOF MOUNTED EXHAUST FAN

SEQUENCE OF OPERATION

1. THE EF SHALL BE SET TO ACTIVATE AND DEACTIVATE ACCORDING TO THE SET OPERATION TIME SCHEDULE FOR OCCUPIED AND UNOCCUPIED TIME

SEE EQUIP. SCHEDULE FOR VOLTAGE ACTUATOR W/

TYPICAL SINGLE PHASE EXHAUST FAN WIRING DETAIL



BUILDING AUTOMATION SYSTEM NETWORK RISER DIAGRAM

NOTES

1. THE MECHANICAL SYSTEMS CONTROLS CONTRACTOR (MSCC) SHALL PROVIDE A NEW BUILDING AUTOMATION SYSTEM (BAS) JACE CONTROLLER

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1. THE MECHANICAL SYSTEMS CONTROLS CONTROLLER

1. THE MECHANICAL SYSTEMS CONTROLLER CONTROLLER

1. THE MECHANICAL SYSTEMS CONTROLLER CON AND/OR GATEWAY/INTEGRATION DEVICE OR DEVICES, POWER SUPPLIES, AND NEMA 1 ENCLOSURES AS NECESSARY TO INTEGRATE ALL FIELD DEVICES AND DEVICE NETWORKS TO THE COMMON VAN BUREN SCHOOLS TRIDIUM BUILDING AUTOMATION SYSTEM (BAS) FRONT END SERVER. PROVIDE ETHERNET IP DATA CONNECTION(S) AND LOCATE DEVICE(S) AS NECESSARY IN COORDINATION WITH THE ELECTRICAL/TECHNOLOGY CONTRACTOR AND THE OWNER.

INTEGRATED design SOLUTIONS architecture engineering interiors & technology

1441 west long lake, suite 200

5211 cascade road SE, suite 300 grand rapids, michigan 49546

Van Buren Public Schools

501 W Columbia Ave

Belleville, MI 48111

Project Administrator

N. Moeggenborg

N. Moeggenborg

Q.M. Review

T. Vercruysse

J. Schwartz

Drawing Scale

Issue Date

BIDS 01-31-2025

Issued for

Design Development 07-03-2024

Quality Managment Review 01-09-2025

 \circ 2025 integrated $ext{design}$ solutions, LLC

Schedules & Controls

No Scale

Project Architect / Engineer N. Moeggenborg

A. Maurer Project Designer

RAHS Belleville High School

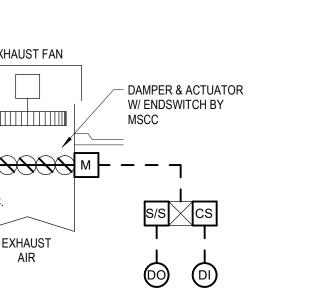
troy, michigan 48098

www.ids-michigan.com

248.823.2100

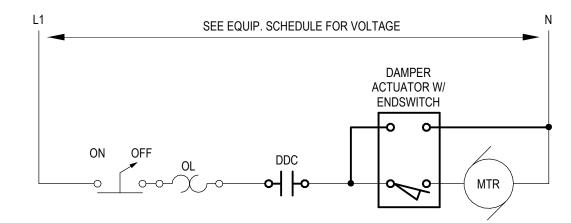
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Drawing Number M7.1



CONTROL DIAGRAM

WHEN THE FAN IS ENABLED, THE ISOLATION DAMPER SHALL OPEN. ONCE THE DAMPER ENDSWITCH VERIFIES THE DAMPER HAS OPENED, THE FAN SHALL



SYMBOLS ABBREVIATIONS ANALOG INPUT TEE DOWN ——FP—— FIRE PROTECTION WATER SUPPLY PIPING CATCH BASIN R (CONTINUED) ANALOG OUTPUT CONNECTION, TOP DRY PIPE FIRE PROTECTION PIPING KIP (1000 POUNDS) —— DP —— AMP, AMPERES EAST REFERENCE PRESSURE GAUGE REFRIGERANT, REFRIGERATION, REFRIGERATOR EACH KILOGRAM AIR (COMPRESSED) CONNECTION, BOTTOM **CURRENT SWITCH** ARCHITECT - ENGINEER KILOVOLT REGISTER WET PIPE FIRE PROTECTION SPRINKLER PIPING EXHAUST AIR REG —— SP —— FIRE PUMP TEST HEADER **ENTERING AIR TEMPERATURE** KILOVOLT AMPERES REM REMARKS ELBOW, DOWN AIR CONDITIONING DAMPER MOTOR AIR COMPRESSOR ENTHALPY CONTROLLER KVAR KILOVOLT AMPERE REACTIVE REQUIREMENT ---SP/GL--WET PIPE FIRE PROTECTION PIPING WITH ELBOW, UP TAMPER SWITCH ALTERNATING CURRENT **ECCENTRIC** KILOWATTS REQUIRED $\overline{}$ DAMPER (PARALLEL BLADE) 50% GLYCOL PRE-MIXED SOLUTION AIR COOLED CONDENSING UNIT **ECON ECONOMIZER** KILOWATT HOUR RETURN PRESSURE/TEMPERATURE PLUG PRE-ACTION FIRE PROTECTION PIPING —— PA —— ____ ELBOW, W/90 AIR CONDITIONING & VENTILATING EXHAUST DIFFUSER REVISION DAMPER (OPPOSED BLADE) MANUAL AIR VENT ENTERING DRY BULB RETURN FAN ACCESS DOOR EDB CUH OR CONVECTOR (SURFACE) COMPRESSED AIR AMERICAN DISABILITIES ACT EEW —— A —— EMERGENCY EYE WASH LONG, LENGTH RETURN GRILLE DIGITAL INPUT AUTOMATIC AIR VENT **ADJUSTABLE EEWS EMERGENCY EYE WASH AND SHOWER** LOUVER RELATIVE HUMIDITY DIGITAL OUTPUT FINNED TUBE RADIATION —FOR— FUEL OIL RETURN \leftarrow LABORATORY AIR FOIL EXHAUST FAN RELIEF HOOD DUCT SMOKE DETECTOR ABOVE FINISHED FLOOR **EFFICIENCY** LEAVING AIR TEMPERATURE RIGHT HAND GLOBE VALVE PRESSURE TRANSMITTER AIR HANDLING UNIT **EXHAUST GRILLE** LAVATORY REHEAT COIL —FOS — FUEL OIL SUPPLY AREA SMOKE DETECTOR PLUG VALVE ANALOG INPUT ELECTRIC HEATING COIL POUNDS ROOM PNEUMATIC LINE LEVEL ALTERNATE **ELECTRIC INFRARED HEATER** RPBP REDUCED PRESSURE BACKFLOW PREVENTER NATURAL GAS PIPING ——G— □PS FIRE PULL STATION BALL VALVE **ALUMINUM EXPANSION JOINT** LEFT HAND ROOM PRESSURE CONTROLLER RECEIVER CONTROLLER AIR MEASURING STATION ELEVATION LINEAR RPM REVOLUTIONS PER MINUTE NATURAL GAS PIPING \bigcirc AB FIRE ALARM BELL — G(EPS) -BUTTERFLY VALVE AMERICAN NATIONAL STANDARDS INSTITUTE ELECTRICAL, ELECTRONIC LOW LIMIT CONTROLLER RETURN REGISTER (EMERGENCY POWER SUPPLY) RELAY (ELECTRICAL) ELEV **ELEVATOR** LIQUID PROPANE RESISTANCE TEMPERATURE DETECTOR ANALOG OUTPUT ROAD BOX ANGLE RELIEF VALVE VENT PIPING ACCESS PANEL ELBOW LOW PRESSURE START/STOP (MOTOR CONTROL) ——V—— AIR PRESSURE DROP ENERGY MANAGEMENT SYSTEM LOW PRESSURE CONDENSATE ROOM PRESSURIZATION INDICATOR (FLOW TUBE) ANGLED STOP CHECK VALVE VACUUM PIPING **APPROX** ENCL SOUTH **APPROXIMATE** ENCLOSURE, ENCLOSED LOW PRESSURE STEAM STATUS — VAC — AQST SHELL AND TUBE AQUASTAT ENTERING LOCKED ROTOR AMPS DIFFERENTIAL PRESSURE SWITCH LINEAR STOP CHECK VALVE ARCH ARCHITECTURAL **ELECTRIC-PNEUMATIC** LOW TEMP DETECTOR SOUND ATTENUATOR SANITARY SEWER SWITCHED AIR LINE LTD — SAN — ARGMNT **ARRANGEMENT** EQUAL LIGHTING SUPPLY AIR AQUASTAT (STRAP ON) LTG MASTER GAS SHUT-OFF VALVE VALVE - TWO WAY ELECTRIC OPERATOR ASME AMERICAN SOCIETY OF MECH. ENGINEERS **EQUIPMENT** 'A' WEIGHTED SOUND POWER LEVEL SANITARY SEWER WASTE DRAIN TILE — DT — POINT OF NEW CONNECTION ASR AUTOMATIC SPRINKLER RISER EXHAUST REGISTER LWT LEAVING WATER TEMPERATURE STANDARD CUBIC FEET PER MINUTE PRV PRESSURE REDUCING STATION 2-WAY MOTORIZED VALVE ASTM AMERICAN SOCIETY FOR TESTING MATERIALS ENERGY RECOVERY COIL SCHEDULE PUMPED STORM WATER TEMPERATURE INDICATOR — PST — STAND ALONE COMPUTER UNIT ATM ATMOSPHERE ENERGY RECOVERY RETURN FLOOR CLEANOUT 3-WAY MOTORIZED VALVE SOFTENED COLD WATER AUTO AUTOMATIC **ENERGY RECOVERY SUPPLY** THERMOMETER RAIN CONDUCTOR WALL CLEANOUT AUXILIARY **EMERGENCY SHOWER** MOTOR, MOTORIZED SMOKE DETECTOR ——RС — ELECTRIC - PNEUMATIC RELAY AVERAGE **EXTERNAL STATIC PRESSURE** MILLIAMPERE SUPPLY DIFFUSER THERMOSTAT MANHOLE STORM SEWER AVAILABLE MIXED AIR SOUTHEAST EXPANSION TANK **END SWITCH** —— ST —— **ENTERING WET BULB** MAKE-UP AIR CONTROLLER STATIC EFFICIENCY CARBON MONOXIDE SENSOR PRESSURE RELIEF VALVE **ELECTRIC WATER COOLER** MACH MACHINE SECOND DOMESTIC COLD WATER PIPING FLOW SWITCH - INLINE ____ o ____ **BOILER ENTERING WATER TEMPERATURE** MAN MANUAL SECT SECTION SIAMESE CONNECTION BACKWARD CURVED MATL MATERIAL SELECTOR **─**─|**├**── UNION **EXISTING** HIGH PRESSURE COLD WATER — HPCW — MAIN AIR SUPPLY (TEMPERATURE CONTROL) BUILDING AUTOMATION SYSTEM EXHAUST MANUAL AIR VENT SENSIBLE AIR FLOW SENSOR PIPE ANCHOR \longrightarrow - CHWR -CHILLED WATER RETURN PIPING MOTOR DISCONNECT SWITCH BARRIER FREE EXPANSION MAXIMUM SEPARATOR CONTROL RELAY **BOILER FEED** MODULAR BUILDING CONTROLLER SUPPLY FAN EXTERIOR, EXTERNAL PRESSURE REGULATING VALVE PNEUMATIC - ELECTRIC RELAY BACK FLOW PREVENTOR THOUSAND BRITISH THERMAL UNITS PER HOUR STEAM GENERATOR - CHWS -CHILLED WATER SUPPLY PIPING DAY/NIGHT MAIN AIR SWITCH BOILER HORSEPOWER MOTOR CONTROL CENTER SUPPLY GRILLE MANUAL BALANCING VALVE PNEUMATIC SWITCHING RELAY BRAKE HORSEPOWER **FAHRENHEIT** MOTORIZED DAMPER SHOWER DOMESTIC HOT WATER RETURN PIPING ____ 。。。____ DPS DIFFERENTIAL PRESSURE GAUGE FLOOR DRAIN BACKWARDLY INCLINED FACE AREA MECH MECHANICAL SHEET PNEUMATIC REVERSING RELAY BUILDING FACE AND BY PASS MEZZ MEZZANINE SIMILAR DOMESTIC HOT WATER PIPING _____ PRESSURE SWITCH FUNNEL DRAIN BOTTOM OF DUCT FLOAT AND THERMOSTATIC BOD MFG MANUFACTURING STANDPIPE PRESSURE GAUGE FILTER BANK BOTTOM OF PIPE MFR MANUFACTURER STATIC PRESSURE PNEUMATIC GRADUAL POSITION SWITCH HOT WATER HEATING RETURN PIPING — HWHR — BACK FLOW PREVENTER BOTTOM ORWARD CURVED MANHOLE SPEC SPECIFICATION VALVE - TWO WAY PNEUMATIC CONTROLLED FP FLOOR CONTROL VALVE ASSEMBLY **BSMT** LOWER LEVEL MINIMUM SPRINKLER PNEUMATIC 2-POSITION SELECTOR SWITCH HOT WATER HEATING SUPPLY PIPING **BRITISH THERMAL UNIT** FLOOR CLEANOUT MISCELLANEOUS STATIC PRESSURE SENSOR CAPPED PIPE VALVE - THREE WAY PNEUMATIC CONTROLLED STATIC PRESSURE SENSOR BTUH BRITISH THERMAL UNIT PER HOUR FAN COIL UNIT MILLIMETER SQUARE ENERGY RECOVERY LOOP RETURN PIPING DETECTOR CHECK VALVE SUPPLY REGISTER — ERR — BACKWATER VALVE FIRE DAMPER MEDIUM PRESSURE ELECTRICAL LINE - 24v DC (DDC WIRING) FLOOR DRAIN MEDIUM PRESSURE CONDENSATE SERVICE SINK TEMPERATURE SENSOR (RTU) WITH SUNSHIELD VALVE WITH TAMPER SWITCH — ERS — ENERGY RECOVERY LOOP SUPPLY PIPING FIRE DEPARTMENT CONNECTION MEDIUM PRESSURE STEAM SSCV STAINLESS STEEL CHECK VALVE ELECTRICAL LINE - 120v AC CENTIGRADE * CELSIUS FIRE EXTINGUISHER MOTOR STARTER STAINLESS STEEL TEMPERATURE INDICATOR GAUGE TYPE — COND — VALVE - TWO WAY GATE CONDENSATE DRAIN PIPING (AIR CONDITIONER) FIRE EXTINGUISHER CABINET OS&Y VALVE MAKE UP AIR CABINET STORM SEWER THERMOSTAT WITH GUARD CAPACITY FUME HOOD STORAGE TANK TRIPLE DUTY VALVE MOTOR STARTER, WITHOUT HAND-OFF-AUTO SWITCH — HPCR — HIGH PRESSURE CONDENSATE RETURN PIPING CONSTANT AIR VOLUME FIRE HYDRANT STATION FLOW METER FIRE HOSE CABINET NORTH STANDARD CATCH BASIN SOLENOID VALVE MOTOR STARTER, WITH HAND-OFF-AUTO SWITCH COOLING COIL NATIONAL — PC — PUMPED CONDENSATE RETURN PIPING FIRE HOSE RACK/REEL NATL STEEL FIRE STAT - DUCT MOUNTED PILOT POSITIONER MOUNTED ON COUNTER CLOCKWISE FIRE HOSE VALVE NOISE CRITERIA STM STEAM REDUCER $-\!\!\!\!-\!\!\!\!\!-\!\!\!\!\!-\!\!\!\!\!-$ — PCR — PUMPED CONDENSATE RETURN PIPING CUBIC FEET PER HOUR DEVICE WITH POSITIVE FEEDBACK FINISH, FINISHED NORMALLY CLOSED STOR STORAGE CFH FREEZE STAT - DUCT MOUNTED AUTOMATIC BALANCE VALVE CUBIC FEET PER MINUTE FULL LOAD AMPS NORTHEAST STRAINER CFM —_LPS — LOW PRESSURE STEAM (15 PSI) PIPING FLEXIBLE NATIONAL ELECTRICAL CODE STRUCTURAL CHILLER HUMIDISTAT (ROOM) ELECTRICAL LINE DESIGNATION ON CHECK VALVE WITH ARROW INDICATING FLOW FLOOR CHWR CHILLED WATER RETURN NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC SUPPLY ——LPC — LOW PRESSURE CONDENSATE (15 PSI) PIPING SUP WIRING DIAGRAMS (VOLTAGE AS NOTED) CHILLED WATER SUPPLY CHWS FACTORY MUTUAL NFPA NATIONAL FIRE PROTECTION ASSOCIATION SOUTHWEST **HUMIDIDTY SENSOR (DDC)** MEDIUM PRESSURE STEAM (15 PSI) PIPING ---MPS-**EXISTING MOTOR STARTER -**FLOW MEASURING STATION NOT IN CONTRACT SWITCH PROVIDE HAND-OFF-AUTO SWITCH CIRCLE, CIRCULAR, CIRCULATION FIRE PROTECTION NORMALLY OPEN SYMMETRICAL HUMIDITY HIGH LIMIT SENSOR (DDC) MEDIUM PRESSURE CONDENSATE (15 PSI) PIPING GAS VALVE FEET PER MINUTE CENTER LINE NUMBER SYSTEM MOTOR STARTER - PROVIDE HAND-OFF-AUTO SWITCH, FIBERGLASS REINFORCED PLASTIC CEILING NOMINAL LOOP POWER INDICATOR **STRAINER** FIRE DAMPER CENTIMETER CLEANOUT FREEZESTAT NTS NOT TO SCALE MANOMETER SMOKE DAMPER PIPE GUIDE FLOW METER - INLINE FOOT, FEET CARBON DIOXIDE NORTHWEST TESTING, ADJUSTING, AND BALANCING EXPANSION COMPENSATOR OR TEMPERATURE SENSOR (RTD) COEF COEFFICIENT FINNED TUBE RADIATION TEMPERATURE AND PRESSURE SMOKE DAMPER AND FIRE DAMPER SOLENOID VALVE DUCT MOUNTED RIGID ELEMENT **EXPANSION JOINT** COLUMN THRUST BLOCK FUTURE COL CONC CONCRETE FACE VELOCITY OUTSIDE AIR TEMPERATURE CONTROLS TEMPERATURE SENSOR (RTD) FLOW DIRECTION FIRE CONTROL VALVE T ~~~ DIFFERENTIAL PRESSURE TRANSMITTER COND CONDENSATE **OUTSIDE AIR INTAKE** TRANSFER DIFFUSER DUCT MOUNTED AVERAGING ELEMENT CONN OUTSIDE AIR TEMPERATURE SENSOR CONNECTION TOTAL DYNAMIC HEAD DRY PIPE VALVE TEE UP CONST GAS (NATURAL) CONSTRUCTION ON CENTER TEMPERATURE TEMPERATURE SENSOR (RTD) CONT THRUST BLOCK CONTINUATION, CONTINUE, CONTINUOUS GRAM OUTSIDE DIAMETER TRANSFER GRILLE IMMERSION TYPE ELEMENT CONTR LINE THRU WALL CONTRACTOR GAUGE TERMINAL HEATING COIL CONV CONVECTOR TOTAL VIIII **FMS** GALLON OPPOSITE PIPING TO BE DEMOLISHED FLOW MEASURING DEVICE COOL COOLING GALVANIZED OPERATOR, OPERATED, OPERATIONAL THERMOSTAT OPER COORD TOTAL STATIC PRESSURE COORDINATE GENERAL CORR **GRAVITY HOOD** OS&Y **OUTSIDE SCREW AND YOKE** TURNING VANES CORRIDOR CONDENSATE PUMP GALVANIZED IRON OSEH OCCUPATIONAL SAFTY AND ENVIRON. HEALTH TYPICAL CONTROL PANEL GLYCOL OSHA OCCUPATIONAL SAFETY AND HEALTH ACT **GALLONS PER DAY** OUTLET VELOCITY CENTRAL PROCESSING UNIT GALLONS PER HOUR CHLORINATED POLYVINYL CHLORIDE OUNCE UNDERGROUND NOTATION METHODS CUP SINK GALLONS PER MINUTE UNIT HEATER GRAINS PER POUND **UNDERWRITERS LABORATORIES** CSTM CLEAN STEAM COOLING TOWER GRADE PRESSURE DIFFERENTIAL UNINTERRUPTABLE POWER SYSTEM SD-A 10" DIA COPPER GRAVITY **PRESSURE** SUPPLY DIFFUSER, TYPE 'A', 10" NECK, 350 CFM SOUNT TRAP (ATTENUATOR) UNITED STATES GEOLOGICAL SURVEY UNIT VENTILATOR SD-A 10" DIA CABINET UNIT HEATER PRE-ACTION FIRE PROTECTION PIPING SUPPLY DIFFUSER (3-WAY) CONTROL VALVE HIGH, HEIGHT **PUSH BUTTON** PROGRAMMABLE CONTROLLER CAPACITY INDEX HUMIDIFIER 350 CFM PUMPED CONDENSATE CLOCKWISE HUMIDISTAT VENT RETURN OR EXHAUST REGISTER, TYPE 'A', 350 CFM FINNED TUBE RADIATION, TYPE 'A', 5'-0" ELEMENT, 5.7 TOTAL MBH RR-A COLD WATER HOSE BIBB PRESSURE DROP VALVE (REFER TO EQUIPMENT SCHEDULES) 350 CFM CONDENSER WATER RETURN HEATING COIL PNEUMATIC-ELECTRIC VACUUM CONDENSER WATER SUPPLY HEAT DETECTOR PEND VARIABLE EXHAUST REGISTER, TYPE 'A', 350 CFM PENDANT ER-A HOT DECK PERFORATED VARIABLE AIR VOLUME 350 CFM CABINET UNIT HEATER, TYPE 'A' HIGH EFFICIENCY PARTICULATE AIR PERMANENT VACUUM BREAKER SD<u>-A</u> SIDEWALL SUPPLY REGISTER, TYPE 'A', 350 CFM DEEP, DEPTH **HUMIDITY HIGH LIMIT** PIPE GUIDE VOLUME DAMPER DRIVE HAND-OFF-AUTO PHASE VELOCITY HOA 350 CFM CONVECTOR, TYPE 'A' DROP HORIZONTAL, HORIZONTALLY PREHEAT COIL VENTILATING, VENTILATION DIRECT ACTING HORSEPOWER PLUMBING VERTICAL SD-A SUPPLY AIR DIFFUSER, TYPE 'A' WITH DISCHARGE AIR TEMP HIGH PRESSURE **PNEUMATIC** VERIFY IN FIELD TERMINAL VARIABLE VOLUME BOX, TYPE 'A', SIZE '1' FLEXIBLE DUCT CONNECTION (TWO WAY THROW) ₹ **√**,350 CFM (6.5 MBH DRIP AND TRAP HIGH PRESSURE CONDENSATE POSITION VOLUME (HEATING COIL, REFER TO EQUIPMENT SCHEDULES) -`[」]0.6 GPM VOLTAGE VOLT DRY BULB HIGH PRESSURE STEAM POUNDS PER HOUR DECIBEL HOUR PARTS PER MILLION VSD VARIABLE SPEED DRIVE BELL MOUTH AIR INLET AREA SHALL TERMINAL VARIABLE VOLUME BOX, TYPE 'B', SIZE '1' DIRECT CURRENT HUMIDITY SENSOR **PREFABRICATED** VENT THROUGH ROOF BE EQUAL TO '2' TIMES DUCT AREA (NO HEATING COIL, REFER TO EQUIPMENT SCHEDULES) HIGH TEMP DETECTOR PREP DIRECT DIGITAL CONTROL PREPARATION PRES PRESENT HEATING DEMO DEMOLISH, DEMOLITION HEAT TRANSFER PACKAGE AIR HANDLING UNIT No. 1 PROC PROCESS, PROCESSING DUAL DUCT CONSTANT VOLUME MIXING BOX DEPT WIDE, WIDTH DEPARTMENT HEATER PRV PRESSURE REDUCING VALVE (REFER TO EQUIPMENT SCHEDULES) HUMIDITY WITH DETAIL POUNDS PER SQUARE FOOT HUM HEATING, VENTLATING AND AIR CONDITIONING WITHOUT DRINKING FOUNTAIN HVAC POUNDS PER SQUARE INCH HEATING COIL, TYPE 'A' HC-A WASTE AND VENT EXHAUST FAN No. 1 DIGITAL INPUT HOT WATER POUNDS PER SQUARE INCH ABSOLUTE (REFER TO EQUIPMENT SCHEDULES) HOT WATER HEATING RETURN WET BULB DIAMETER HWHR POUNDS PER SQUARE INCH GAUGE HOT WATER HEATING SUPPLY DIFFUSER HWHS POLYVINYL CHLORIDE WET BULB TEMPERATURE HOT WATER RETURN POINT WHERE CHANGE IN DUCT SIZE OR PIPE PITCH TAKES PLACE DIFFERENTIAL WATER CLOSET SUPPLY AIR BRANCH CONNECTION HEAT EXCHANGER PROCESS WATER RETURN DIMENSION WALL CLEANOUT SPIN-IN FITTING WITH VOLUME DAMPER DISCONNECT HYDRANT PROCESS WATER SUPPLY WATER GAUGE DISCH DISCHARGE HERTZ WALL HYDRANT 5//// POINT WHERE DEMOLITION ENDS/POINT OF NEW CONSTRUCTION DIVISION WATER HEATER DOWN QUANTITY WATER PRESSURE DROP RETURN AIR/EXHAUST AIR BRANCH DIGITAL OUTPUT INPUT/OUTPUT WEIGHT CONNECTION WITH VOLUME DAMPER **NEW MECHANICAL** INSIDE DIAMETER DOMESTIC DRIP POCKET INVERT ELEVATION **RADIUS EXISTING MECHANICAL** DRY PENDANT INTAKE HOOD RISE, RISER TRANSFORMER RETURN AIR EXTRA HEAVY INCH, INCHES INCREASER REVERSE ACTING EXPLOSION PROOF DIFFERENTIAL PRESSURE GAUGE RADIATOR, RADIATION DEW POINT TEMPERATURE INCLUDING, INCLUSIVE NSULATION, INSULATED RAINWATER CONDUCTOR INTERIOR, INTERNAL YARD DOWNSPOUT ROOM CRITERION DRAIN TILE YARD HYDRANT RADIENT CEILING PANEL DRAWING IONIZATION SMOKE DETECTOR REINFORCED CONCRETE PIPE DIRECT EXPANSION INTERNAL STATIC PRESSURE RETURN DIFFUSER INDIRECT WASTE ROOF DRAIN RECIRCULATION **RECIRC** REDUCER SPRINKLER HEAD SCHEDULE MOUNTING HEIGHTS FIRE PROTECTION GENERAL NOTES FIRE PROTECTION DRAWING INDEX REFER TO SPECIFICATIONS FOR MANUFACTURERS Fire Protection Reference Information ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL LOCAL CODES AND REGULATIONS. FP2.1 First Floor Fire Protection Plan TYPE SYMBO TYPE & MODEL NO. FINISH LOCATION 2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. VERIFY ALL CONDITIONS. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS. COORDINATE ROOMS WITH FINISHED ALL WORK WITH APPROPRIATE TRADES. CEILINGS, CLOSETS CONCEALED PENDENT QUICK RESPONSE CONCEALED \rightarrow SEE PLANS B. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURE'S RECOMMENDATIONS AND HORIZONTAL SIDEWALL APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, MISC STEEL AND OTHER DEVICES REQUIRED FOR A COMPLETE PUBLIC AREAS W/FINISHED QUICK RESPONSE PENDENT CEILINGS **BRASS(UNFINISHED AREAS)** QUICK RESPONSE AREAS W/O CEILINGS **(a)** 4. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL FIRE PROTECTION EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO CHROME(FINISHED AREAS) QUICK RESPONSE SEE DRAWINGS, HI-TEMP HORIZONTAL SIDEWALL STANDARD IN ELEV. PITS 5. PROVIDE FLUSH TYPE ACCESS DOORS OR PANEL NO SMALLER THAN 12"X12" AND NO LARGER THEN 30"x30" FOR ALL VALVES OR APPARATUS LOCATED IN CHASES, WALLS AND ABOVE NON ACCESSIBLE CEILINGS. FIRE STANDPIPE/SPRINKLER

INTEGRATED design SOLUTIONS architecture engineering interiors & technology 1441 west long lake, suite 200 troy, michigan 48098 5211 cascade road SE, suite 300 grand rapids, michigan 49546 www.ids-michigan.com

Van Buren Public Schools

RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARD INFORMATION SHOWN ON THIS SHEET.

> Project Administrato A. Maurer Project Designer N. Moeggenborg Project Architect / Engineer N. Moeggenborg N. Moeggenborg Q.M. Review T. Vercruysse

> > J. Schwartz Drawing Scale No Scale Issue Date Issued for

BIDS 01-31-2025

 \circ 2025 Integrated $ext{design}$ solutions, L

Fire Protection Reference Informatio

TDS Project Number

Drawing Number

24167-1000

4. HOSE VALVE STATION SHALL BE EQUIPPED WITH 2-1/2" FIRE DEPARTMENT VALVE. 5. FIRE DEPARTMENT CONNECTIONS SHALL BE PROVIDED AND LOCATED IN ACCORDANCE WITH ALL LOCAL CODES, REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.

ENTIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED. REFER TO THE SPECIFICATIONS FOR HAZARD AND SYSTEM TYPE

3. HOSE VALVE STATION SHALL BE UNOBSTRUCTED AND INSTALLED BETWEEN 3 FEET AND NOT MORE THAN 5 FEET ABOVE THE FINISHED

THE ENTIRE FIRE STANDPIPE SYSTEM SHALL BE SIZED, LOCATED, INSTALLED AND MAINTAINED THROUGHOUT THE BUILDING IN

ACCORDANCE WITH THE REQUIREMENTS OF ALL LOCAL CODES AND AUTHORITY HAVING JURISDICTION.

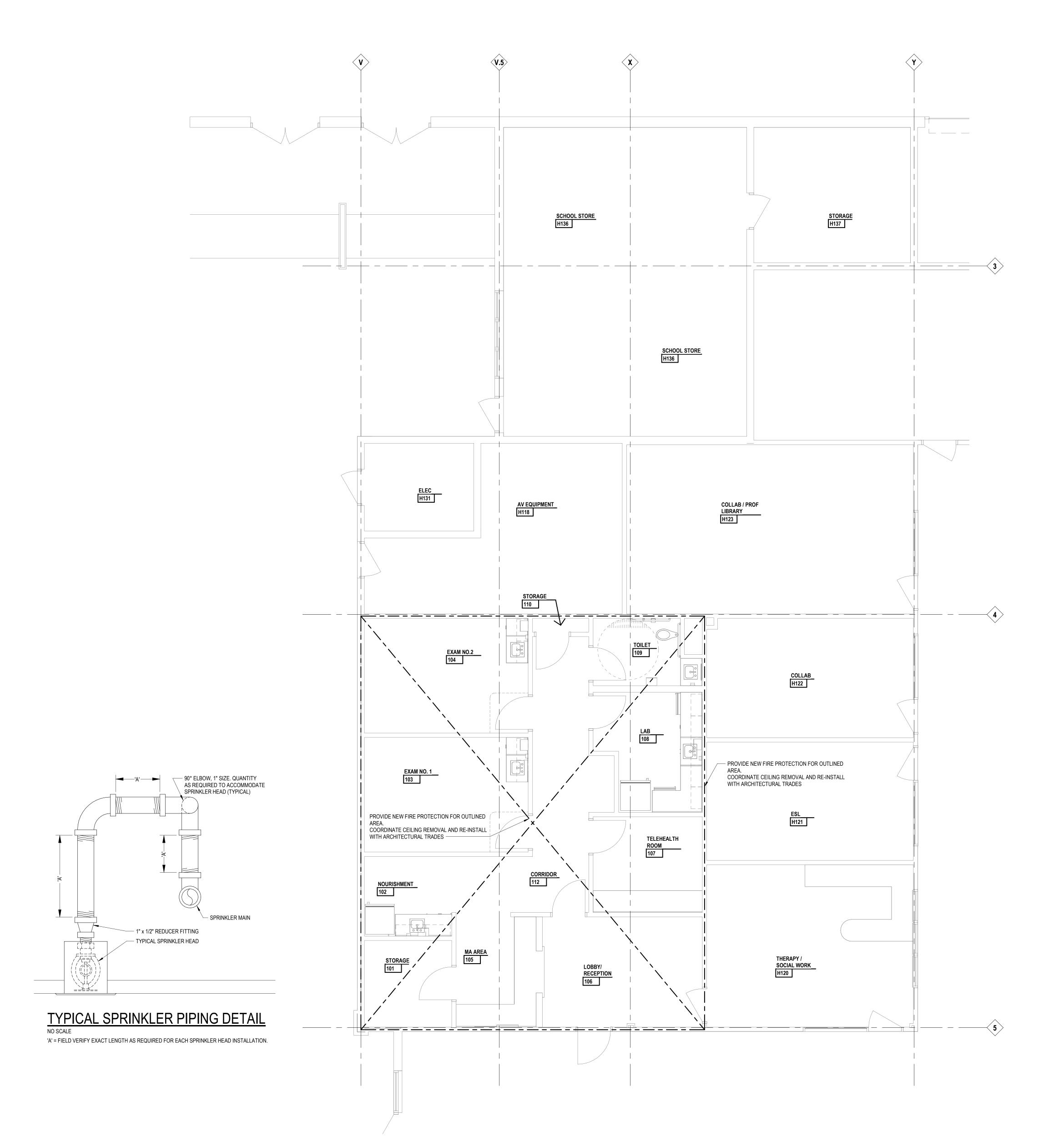
DESIGN CRITERIA

FLOOR. PROVIDE VALVE CABINET WHERE INDICATED.

REQUIREMENTS.

- 6. PROVIDE ACCESS LADDER TO ALL SPRINKLER FLOOR CONTROL ASSEMBLIES LOCATED MORE THEN 7'-0" ABOVE FLOOR.
- 7. ALL PIPE SIZES SHOWN ON DRAWINGS ARE APPROXIMATE AND ARE SHOWN ONLY TO ASSIST THE DESIGN.
- 8. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 9. SPRINKLER HEAD TYPES TO BE USED: REFER TO SPRINKLER HEAD SCHEDULE
- 10. PENDENT TYP SPRINKLER HEADS LOCATED IN SUSPENDED CEILING TILES, SHALL BE CENTERED IN CEILING TILE.
- 11. PROVIDE SPRINKLER PROTECTION INSIDE ELEVATOR MACHINE ROOMS AND PITS WITH SHUT-OFF AND TAMPER SWITCH VALVE IN BOX
- 12. PROVIDE SPRINKLER HEAD CAGES AT ALL ELECTRIC AND MECHANICAL EQUIPMENT ROOMS.
- 13. COORDINATE ANY REQUIRED SHUTDOWN OF SERVICES OR EQUIPMENT WITH OWNER'S REPRESENTATIVE.

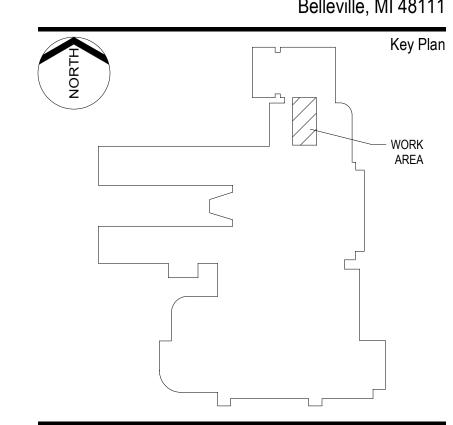




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501 W Columbia Ave Belleville, MI 48111



A. Maurer Project Designer N. Moeggenborg Project Architect / Engineer
N. Moeggenborg N. Moeggenborg Q.M. Review T. Vercruysse Approved J. Schwartz Drawing Scale 1/4" = 1'-0" Issue Date BIDS 01-31-2025

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First Floor Fire Protection Plan

ī**D**§ Project Number

Drawing Number

FP2.1

24167-1000

ELECTRICAL DRAWING INDEX

Electrical Reference Information Enlarged Plan

Enlarged Plans

One Line Diagram Fire Alarm Diagram, Detail and Panel Schedules



248.823.2100

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PROJECT GENERAL NOTES

- 1. ALL ITEMS SHOWN HATCHED SHALL BE DISCONNECTED AND REMOVED. LIGHT LINE WEIGHT INDICATES EXISTING ITEMS TO REMAIN. HEAVY LINE WEIGHT INDICATES NEW ITEMS.
- 2. ITEMS DENOTED BY THE LETTER "R" INDICATE EXISTING ITEMS TO BE RELOCATED. THESE ITEMS SHALL BE DISCONNECTED, REMOVED AND STORED FOR REINSTALLATION IN NEW LOCATIONS AS INDICATED ON NEW WORK PLANS.
- 3. WHERE APPLICABLE AND NOT SPECIFICALLY INDICATED OTHERWISE EXISTING IN PLACE CONDUITS, JUNCTION BOXES, PULL BOXES AND HANGERS MAY BE REUSED FOR NEW WORK PROVIDING THAT THE INSTALLATION IS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE EXISTING ITEMS DO NOT INTERFERE WITH DEMOLITION OR NEW WORK OF ANY TRADES.
- 4. WHERE CONDUITS ARE ROUTED CONCEALED IN WALL CAVITIES FOR ELECTRICAL ITEMS INDICATED TO BE REMOVED, ABANDON THE CONDUIT CONCEALED IN THE WALL CAVITY. REMOVE THE CONDUIT EXITING THE WALL CAVITY INTO THE CEILING SPACE BEYOND THE FIRST FITTING OR JUNCTION BOX. REMOVE ALL SURFACE MOUNTED OUTLET BOXES ASSOCIATED WITH THE CONDUIT SYSTEM. ABANDON ALL FLUSH MOUNTED OUTLET BOXES ASSOCIATED WITH THE CONDUIT SYSTEM IN PLACE AND PROVIDE NEW BLANK COVER PLATES.
- 5. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT AS INDICATED INCLUDING HANGERS, PULL BOXES, JUNCTION BOXES, CONDUIT AND WIRING FROM THE POWER SOURCE TO THE UTILIZATION EQUIPMENT.
- 6. WHERE REMOVAL OF CONDUIT AND WIRING AFFECTS THE OPERATION OF "UPSTREAM" AND/OR "DOWNSTREAM" UTILIZATION EQUIPMENT WHICH WAS NOT INDICATED TO BE REMOVED, PROVIDE ADDITIONAL CONDUIT AND WIRING TO RESTORE THE "UPSTREAM" AND "DOWNSTREAM" UTILIZATION EQUIPMENT TO ITS NORMAL OPERATION.
- 7. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SUPERVISION REQUIRED TO COMPLETE ALL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AS SPECIFIED OR INDICATED. DISCONNECT, REMOVE AND RELOCATE ALL ITEMS AS REQUIRED TO FACILITATE THE NEW CONSTRUCTION. COORDINATE THE DEMOLITION REQUIREMENTS WITH ALL OTHER TRADES AND THE NEW WORK
- 8. NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. EXISTING FIRE ALARM SYSTEM IS MANUFACTURED BY NATIONAL TIME & SIGNAL. COORDINATE ALL SYSTEM REQUIREMENTS WITH MANUFACTURER.
- 9. PROVIDE A DEDICATED NEUTRAL CONDUCTOR WITHIN THE RACEWAY ALONG WITH THE PHASE CONDUCTORS FOR ALL FEEDERS AND BRANCH CIRCUITS.
- 10. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITHIN THE RACEWAY ALONG WITH THE PHASE CONDUCTORS FOR ALL FEEDERS AND BRANCH
- 11. ALL 120 VOLT, 20 AMPERE BRANCH CIRCUITS EXCEEDING 100'-0" IN LENGTH SHALL BE INSTALLED USING #10 AWG CONDUCTORS UNLESS OTHERWISE
- 12. ALL ELECTRICAL DEVICES AND ASSOCIATED OUTLET BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL CONDUIT AND WIRING SHALL BE CONCEALED. SURFACE METAL RACEWAY SHALL BE PERMITTED ONLY WHERE
- 13. MOUNTING HEIGHT OF RECESSED JUNCTION OR OUTLET BOXES IN BLOCK OR BRICK MAY BE ADJUSTED TO THE NEAREST HORIZONTAL COURSING AS LONG AS THE SPECIFIED MOUNTING HEIGHT IS NOT EXCEEDED. COVER PLATE TO
- CONCEAL GROUT LINE. 14. ALL WORK AND EQUIPMENT SHALL COMPLY WITH THE NEC INCLUDING ANY MODIFICATIONS BY THE LOCAL JURISDICTION. THE MEANS AND METHODS
- USED BY THIS CONTRACTOR SHALL CONFORM TO NEC SECTION 110.3. 15. FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED TO THE FIRE MARSHAL

FOR APPROVAL PRIOR TO SUBMITTING FOR ENGINEER APPROVAL.



Van Buren Public Schools

RAHS Belleville High School

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THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARDS INFORMATION SHOWN ON THIS SHEET

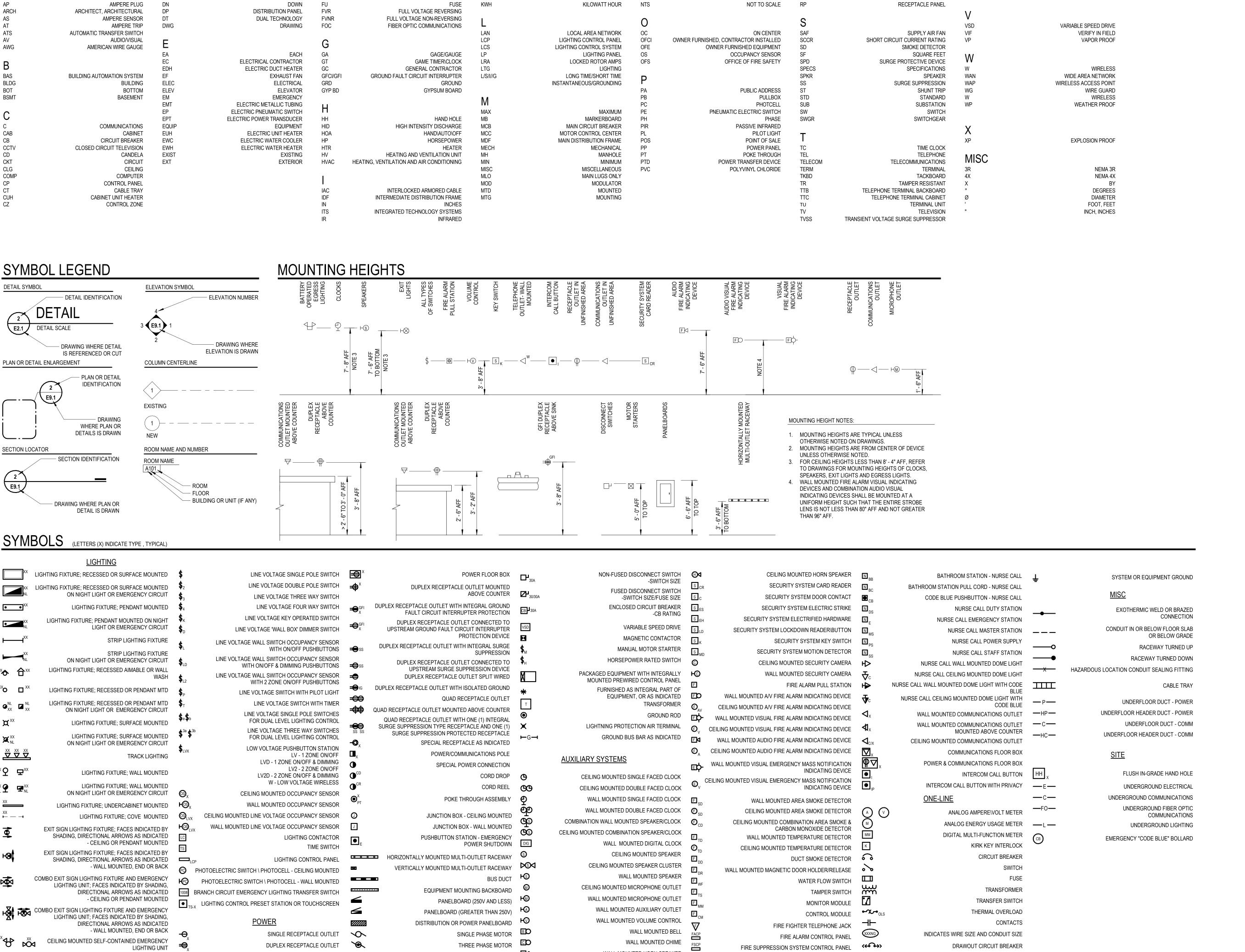
Pro	ject Administrato
	A. Maure
	Project Designe
	T. Morgai
Project Ar	rchitect / Enginee
	T. Morga
	Drawn B
	T. Morga
	Q.M. Review
	T. Carro
	Approve M. Nowick
	Drawing Scal
	No Scale
Issued for	Issue Date
	07-03-2024
Design Development	07-03-202
Design Development Quality Management Review	07-03-202
Design Development	07-03-202
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Electrical Reference Information

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24167-1000



WALL MOUNTED HORN SPEAKER

SINGLE BED STATION - NURSE CALL

DOUBLE BED STATION - NURSE CALL

AIR-MAG / VACUUM CIRCUIT BREAKER

ENGINE GENERATOR

MAGNETIC MOTOR STARTER

COMBINATION MAGNETIC MOTOR STARTER & FUSED

DISCONNECT SWITCH - SWITCH SIZE / FUSE SIZE

WALL MOUNTED SELF-CONTAINED EMERGENCY

POLE MOUNTED AREA LIGHTING FIXTURE; QUANTITY

POST TOP POLE MOUNTED AREA LIGHTING FIXTURE

SITE LIGHTING FIXTURE; ADJUSTABLE FLOOD

LIGHTING UNIT

SITE LIGHTING; BOLLARD — GFI

OF LUMINARIES AS INDICATED -GFI

DUPLEX RECEPTACLE OUTLET FLUSH MOUNTED IN

MOUNTED ABOVE COUNTER (PROTECTION OF DOWNSTREAM CONNECTED DEVICES)

DEAD-FRONT GROUND FAULT CIRCUIT INTERRUPTER

(PROTECTION OF DOWNSTREAM CONNECTED DEVICES) DEAD-FRONT GROUND FAULT CIRCUIT INTERRUPTER

CEILING

ī**D**§ Project Number

ER.0

REPLACE EXISTING RECEPTACLES WITH TAMPER PROOF TYPE RECEPTACLES. EXISTING BRANCH CIRCUIT TO REMAIN. PROVIDE NEW STAINLESS STEEL COVERPLATE.

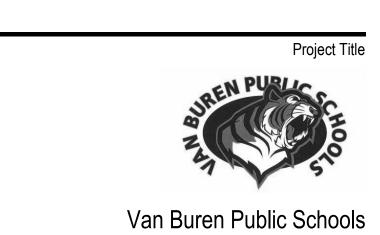
INTEGRATED design solutions architecture engineering interiors & technology

1441 west long lake, suite 200 troy, michigan 48098

5211 cascade road SE, suite 300 grand rapids, michigan 49546

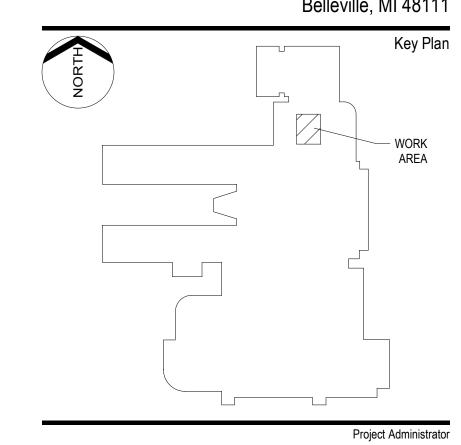
248.823.2100

www.ids-michigan.com



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501 W Columbia Ave Belleville, MI 48111



	r. Morgan
Project a	Architect / Engineer T. Morgar
	Drawn By T. Morga r
	Q.M. Review
	T. Carror
	Approved M. Nowick
	Drawing Scale As Noted
Issued for	Issue Date
Design Development	07-03-2024
Quality Management Review	01-09-2025
Bids	01-31-2025

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Enlarged Plan

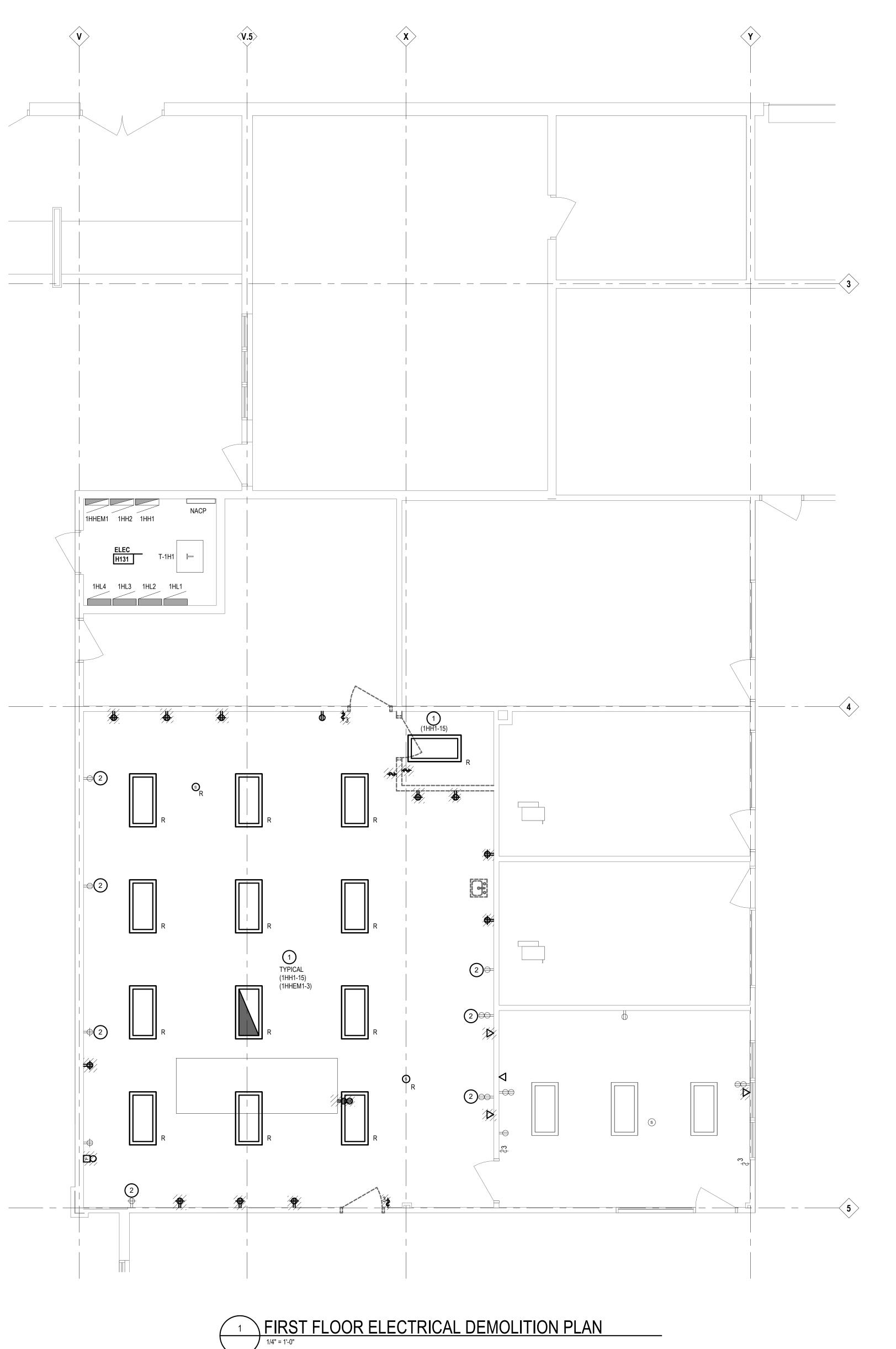
E4.1

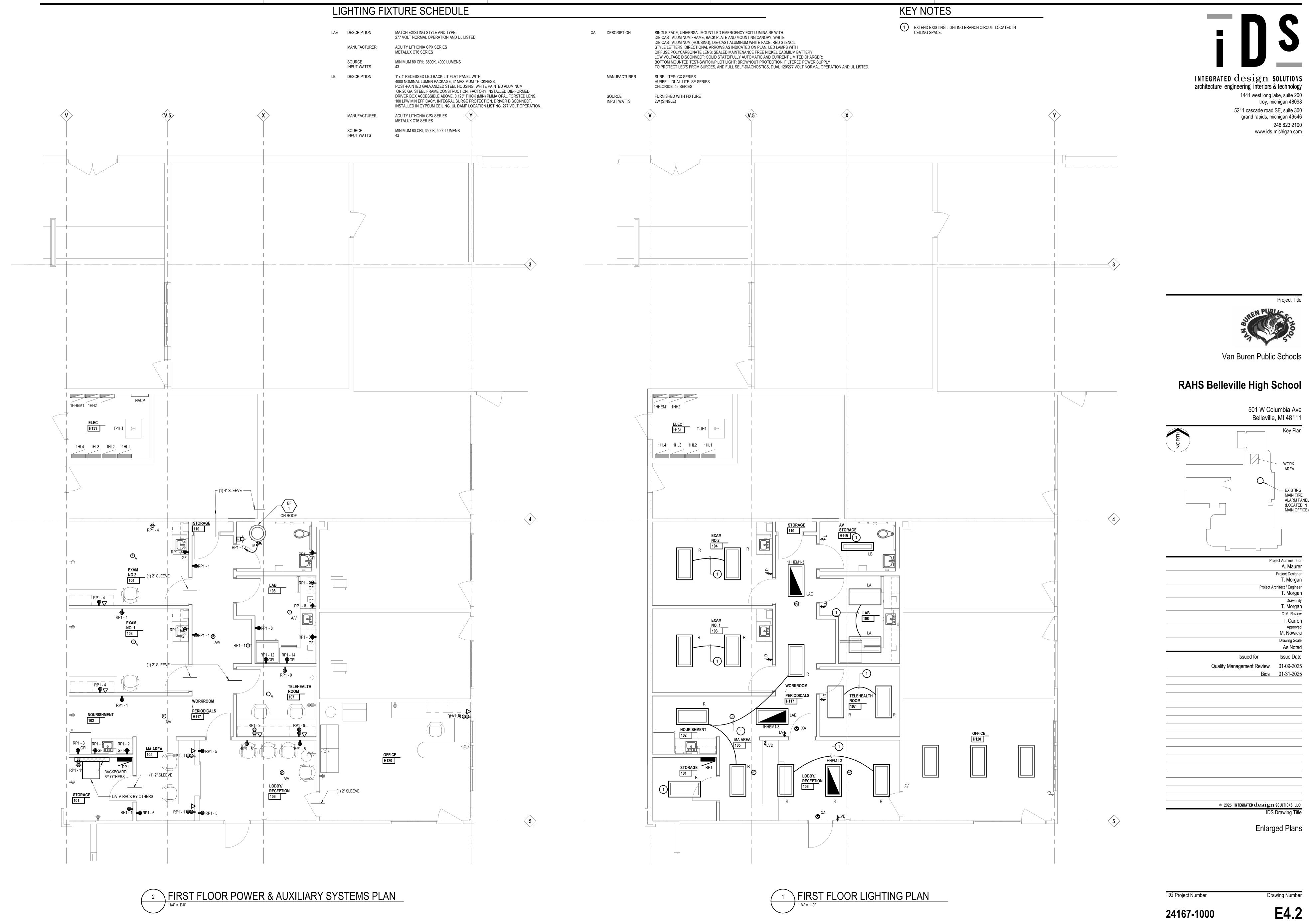
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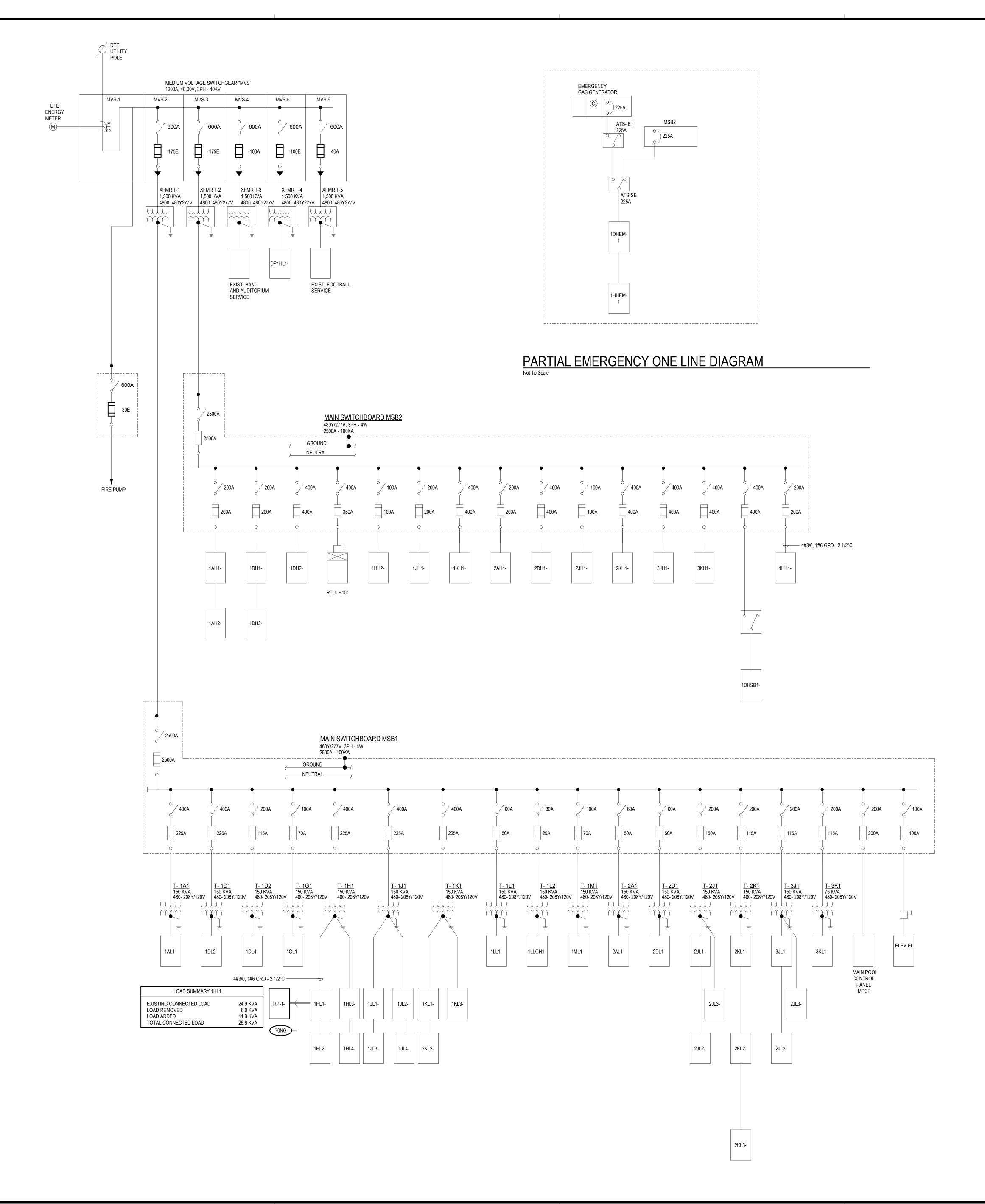
Drawing Number

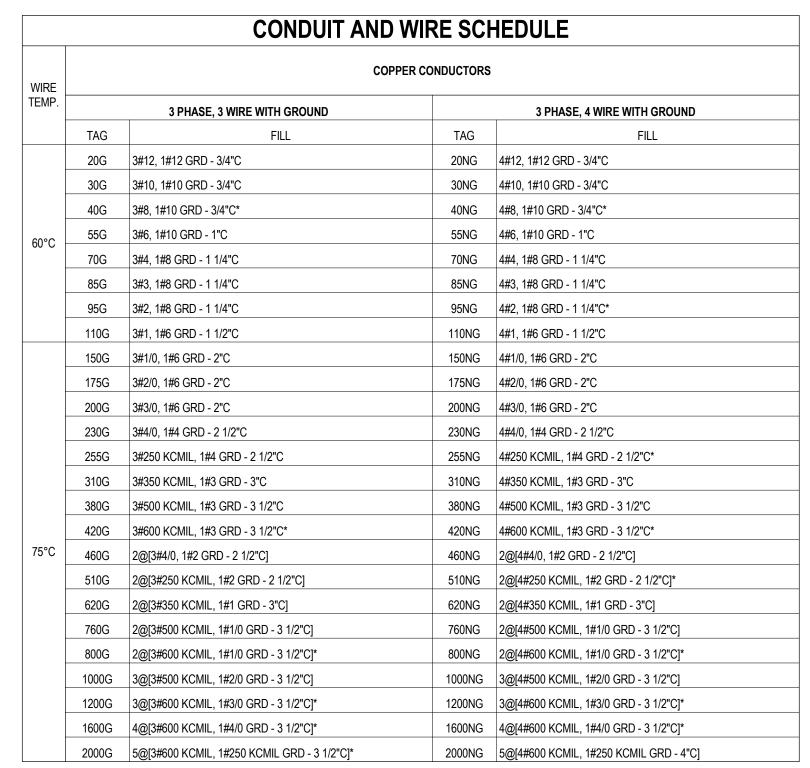
24167-1000











- 1. GROUND WIRES SHOWN IN CONDUIT AND WIRE SCHEDULE ARE EQUIPMENT GROUNDING CONDUCTORS SIZED PER 2023 NEC 250.122, AND GROUND WIRES SHOWN IN TRANSFORMER SECONDARY WIRE SCHEDULE ARE SUPPLY-SIDE BONDING JUMPERS SIZED PER 2023 NEC 250.30(A)(2); ALL OTHER GROUND WIRES, INCLUDING GROUNDING ELECTRODE CONDUCTORS, MAIN BONDING JUMPERS, AND SYSTEM BONDING JUMPERS, SHALL BE SIZED PER 2023 NEC.
- 2. CONDUIT FILL IS BASED ON THHN, THWN, THWN-2, XHHW, AND XHHW-2 CONDUCTOR INSULATION TYPES AND EMT, IMC, RMC, FMC, LFMC, PVC SCHEDULE 40, PVC SCHEDULE 80 (UNLESS OTHERWISE NOTED), HDPE SCHEDULE 40, AND RTRC (SW, HW, & XW) CONDUIT TYPES; ALL OTHER CONDUCTORS AND CONDUIT TYPES SHALL BE SIZED PER 2023 NEC.
- 3. CONDUCTOR AMPACITY IS BASED ON TEMPERATURE RATING INDICATED AND 2023 NEC TABLE 310.16.
- 4. INCREASE CONDUIT BY ONE TRADE SIZE FOR PVC SCHEDULE 80 WHERE INDICATED BY ASTERISK (*).

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248.823.2100

www.ids-michigan.com



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RAHS Belleville High School

501 W Columbia Ave Belleville, MI 48111

A. Maurer T. Carron M. Nowicki Design Development 07-03-2024 Quality Management Review 01-09-2025 Bids 01-31-2025

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One Line Diagram

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Drawing Number

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E5.1

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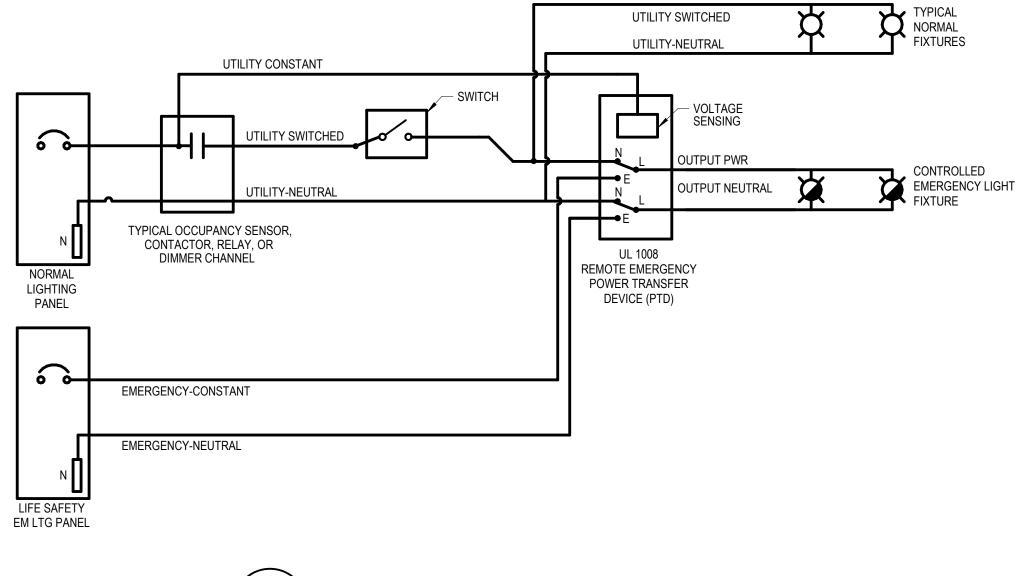
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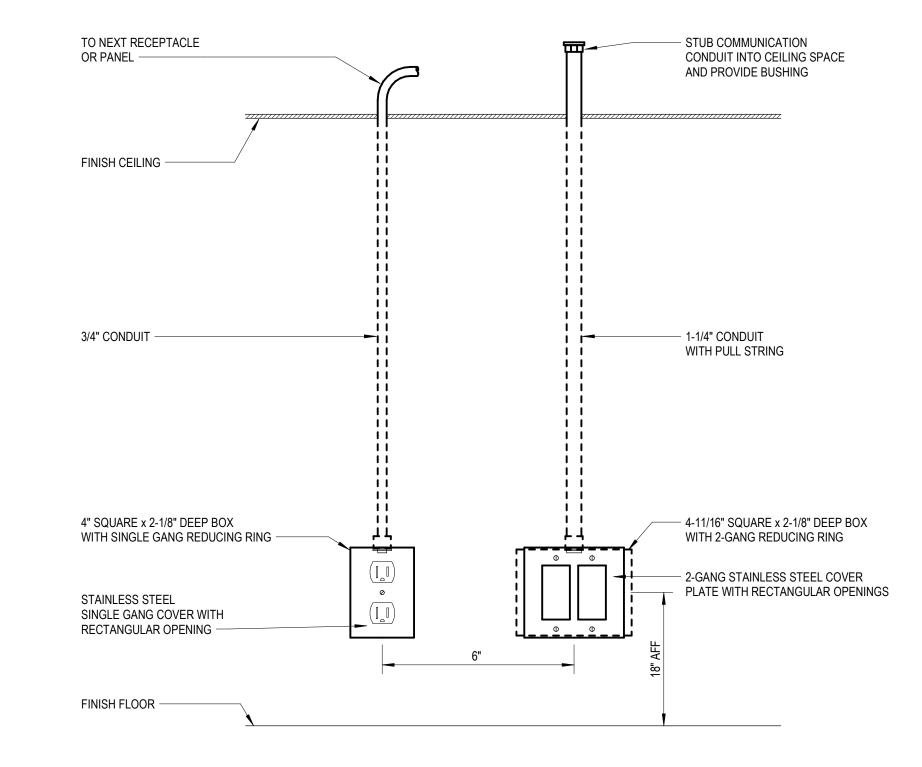
Fire Alarm Diagram, Detail and Panel

Drawing Number

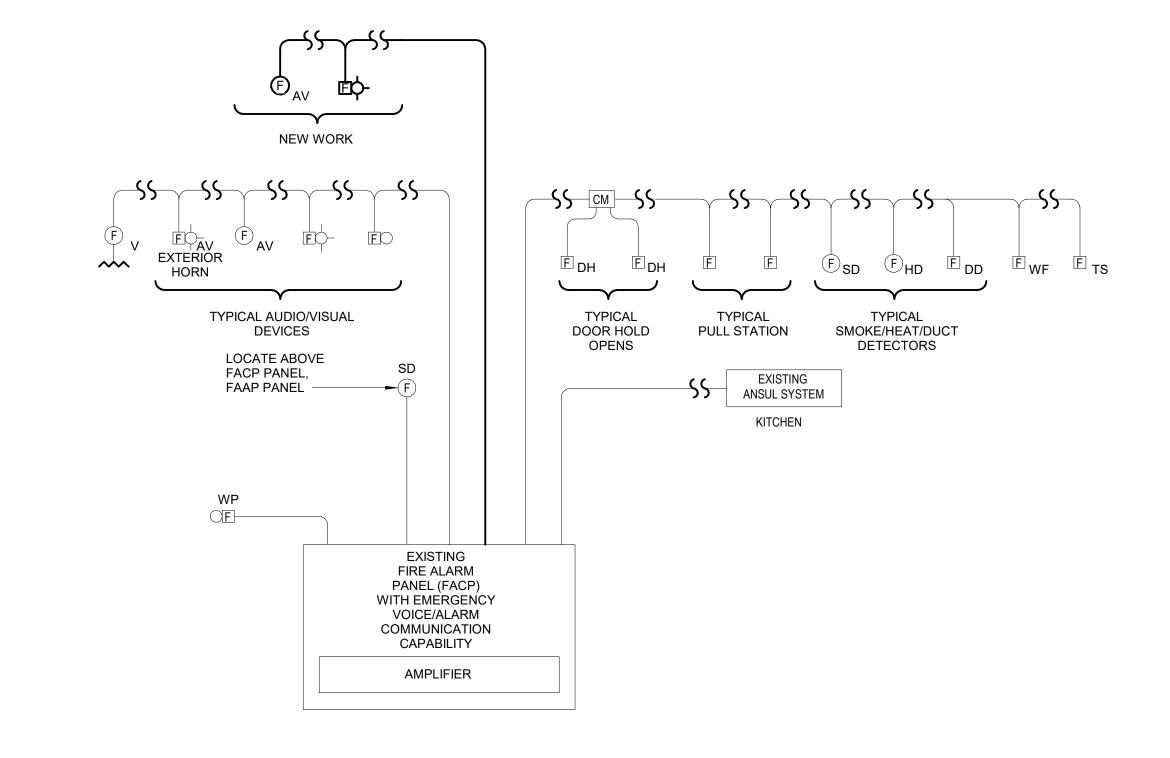
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PTD WIRING DIAGRAM



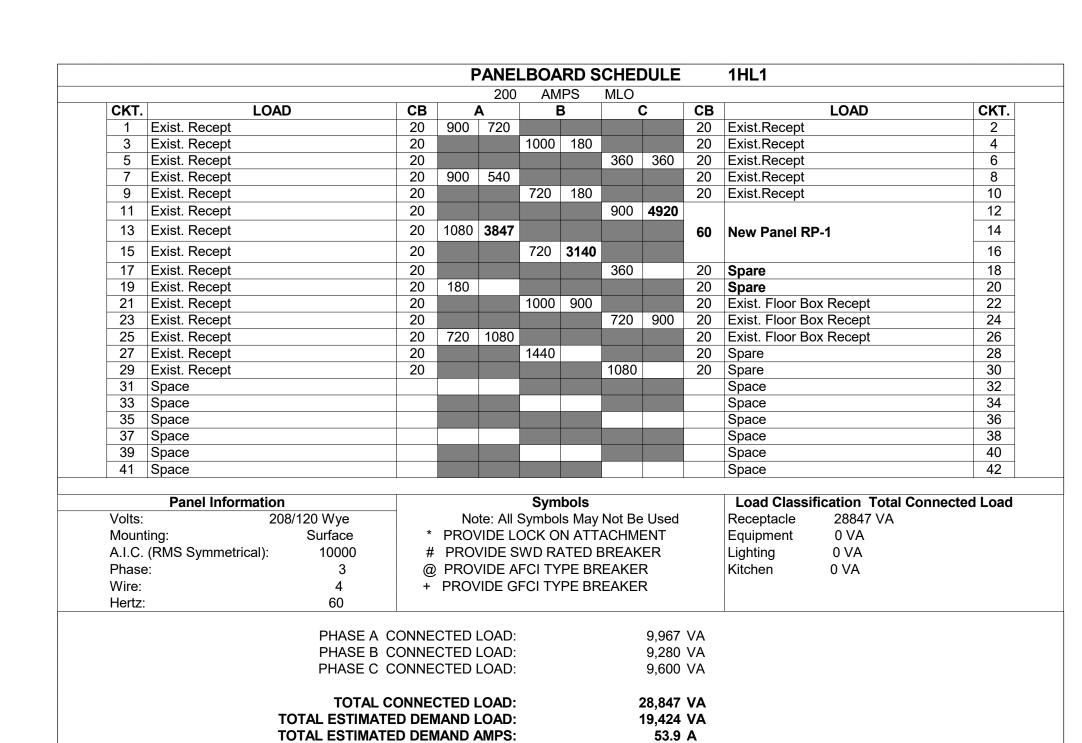
TYPICAL WALL MOUNTED POWER AND COMMUNICATION 2 OUTLET DETAIL



NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIRED WIRE SIZES AND QUANTITIES WITH THE FIRE ALARM SYSTEM MANUFACTURER. ALL WIRING SHALL BE COLOR CODED AND CLEARLY
- 2. ALL WIRING INSULATION SHALL BE TYPE AS APPROVED PER THE FIRE ALARM CODE REQUIREMENTS.
- 3. SCHEMATIC DIAGRAM INDICATES GENERAL LAYOUT & INTENT OF SYSTEM DESIGN. REFER TO POWER & AUXILLIARY SYSTEMS PLANS FOR EXACT QUANTITIES AND LOCATIONS OF DEVICES.
- 4. NEW FIRE ALARM DEVICES CONNECTED TO EXISTING FIRE ALARM SYSTEM. EXISTING SYSTEM IS NATIONAL TIME AND SIGNAL. REFER TO KEYPLAN ON DRAWING E4.1 FOR LOCATION ON FIRE
- ALARM CONTROL PANEL. 5. ALL SURFACE MOUNTED FIRE ALARM DEVICES SHALL BE INSTALLED IN WIREMOLD.





NOTE: 1HL1 IS SHOWN FOR REFERENCE ONLY. NO LOAD ADDED OR REMOVED FROM PANEL.

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		5		20			1200	1080			20	Receptacles - Room 103,104		4
				20					1080	500	20	Printer - Room 106		6
				20	1200	720					20	Receptacles - Room 108, Toilet	Room	8
	9 Receptacles - Room 107		20			900	506			15	EF-1		10	
		Technology Cabinet		20					360	1200	20	Undercounter Refrig - Room 108		12
		Spare		20	0	1200					20	Undercounter Refrig - Room 108	8	14
		Spare		20			0	0			20	Spare		16
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5	Lighting	20				4432	4432	20	Lighting	6
7	Lighting	20	4432	4432				20	Lighting	8
9	Lighting	20			4432 443	2		20	Lighting	10
11	Lighting	20				4432	4432	20	Lighting	12
	Lighting	20	4432	4432				20	Lighting	14
	Lighting	20			4432			20	Spare	16
17	Lighting	20						20	Spare	18
19	Lighting	20	4432					20	Spare	20
21	Lighting	20			4432			20	Spare	22
23	Lighting	20				4432		20	Spare	24
	Lighting	20	4432					20	Spare	26
	Lighting	20			4432			20	Spare	28
	Lighting	20				4432		20	Spare	30
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	Panel Information				Symbols	<u> </u>			Load Classification Total Conne	octod Load
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					WD RATE		Lighting 93072 VA			
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	PHASE A C	ONNECTED LOAD: 35,456 VA								
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TOTAL ESTIMATED DEMAND AMPS: NOTE: 1HH1 IS SHOWN FOR REFERENCE ONLY. NO LOAD ADDED OR REMOVED FROM PANEL.

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