CHESANING UNION SCHOOLS

CHESANING HIGH SCHOOL REMODEL

CHESANING, MICHIGAN
PROJECT NO. 2024-053

FEBRUARY 05, 2025 PLAN REVIEW DOCUMENTS

FRENCH

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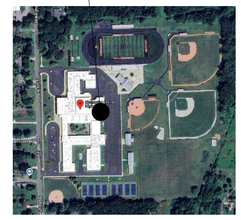
REFERENCE LOCATION MAP

CHESANING HIGH SCHOOL
850 N 4TH ST,
CHESANING, MI 48616



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HENDRICK SINCE 1876

ORIGINAL DRAWINGS PRINTED IN FULL COLOR

2024-053 CHESANING HIGH SCHOOL REMODEL

GENERAL PROJECT NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ALL PERMITS AND POST ALL BONDS PRIOR TO CONSTRUCTION, OR ENSURE THAT ALL REQUIRED PERMITS AND BONDS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING MISS-DIG (811) AT LEAST 3 WORKING DAYS PRIOR TO EXCAVATION.
3. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE LOCATED BY HAND DIGGING.
4. ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO STARTING REMOVALS.
5. COVER NEW AND EXISTING CATCH BASINS AND MANHOLES TO PREVENT FILLING WITH SOIL DURING CONSTRUCTION. CLEAN AS REQ'D AFTER CONSTRUCTION.
6. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO STREETS, SIDEWALKS OTHER STRUCTURES AND ADJACENT AREAS CAUSED BY DEMOLITION OR HAULING OPERATIONS.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ENSURE WORKER SAFETY AND COMPLIANCE WITH MI-OSHA GUIDELINES.
8. DIMENSIONS ARE TO FACE OF CURB, OUTSIDE FACE OF BUILDING, EDGE OF PAVEMENT, CENTER OF STRUCTURE OR OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS PRIOR TO CONSTRUCTION. ADJUST WORK AS REQUIRED TO MEET FIELD DIMENSIONS AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL COORDINATE CONSTRUCTION STAGING AND ACCESSIBILITY WITH OWNER.
10. THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, AASHTO'S 2011 POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
11. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, HOURS OF OPERATION FOR CONSTRUCTION ACTIVITY, VIBRATIONS, OR ANY OTHER RESTRICTIONS.
12. ANY QUANTITIES AND DIMENSIONS SHOWN IN PLANS ARE PROVIDED FOR INFORMATION ONLY, CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

UTILITY CONTACTS

PUBLIC UTILITIES
VILLAGE OF CHESANING
DEPARTMENT OF PUBLIC WORKS
1100 W. BROAD STREET
CHESANING, MI 48616
TEL. (989) 845-3800

ZONING
VILLAGE OF CHESANING
1100 W. BROAD STREET
CHESANING, MI 48616
TEL. (989) 845-3800

GAS
CONSUMERS ENERGY
2400 WEISS STREET
SAGINAW, MICHIGAN 48602
(989) 791-5903

TELEPHONE SERVICES
A.T. & T.
ENGINEERING DEPT.
ROOM 525
309 S. WASHINGTON AVE.
SAGINAW, MICHIGAN 48607

UTILITY NOTE

THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

FLOODPLAIN

SITE IS LOCATED WITHIN ZONE "X" – AREAS OF MINIMAL FLOOD HAZARD PER FEMA MAP NUMBER 26145C0435E, EFFECTIVE DATE AUGUST 15, 2023.

SOIL EROSION & SEDIMENTATION CONTROL

1. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO OR UPON COMMENCEMENT OF EARTHWORK ACTIVITIES.
2. DISTURBED AREAS THAT WILL REMAIN IDLE DURING CONSTRUCTION MUST BE TEMPORARILY STABILIZED, INCLUDING SOIL STOCKPILES.
3. MAINTAIN AND INSPECT SESC MEASURES THROUGHOUT THE COURSE OF THE PROJECT. RECOMMEND INSPECTING AND MAINTAINING EROSION AND SEDIMENTATION CONTROLS ON A DAILY BASIS. AT A MINIMUM, INSPECT AND MAINTAIN SESC MEASURES ONCE A WEEK AND AFTER RAIN EVENTS.
4. CORRECT NON-CONFORMING SESC MEASURES WITHIN 24 HOURS, IF WATERS OF THE STATE ARE BEING IMPACTED OR WITHIN 48 HOURS FOR ROUTINE MAINTENANCE ITEMS. OTHER SESC MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NEVER MORE THAN FIVE (5) DAYS AFTER DETECTION.
5. COMPLETE PERMANENT SOIL EROSION CONTROL MEASURES FOR ANY DISTURBED LAND AREA WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. MAINTAIN TEMPORARY CONTROL MEASURES UNTIL PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
6. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. CARE SHALL BE TAKEN DURING REMOVAL TO PREVENT SOIL EROSION AND SEDIMENTATION.
7. AFTER THE COMPLETION OF THE PROJECT, PERMANENT SESC MEASURES, INCLUDING FINAL STABILIZATION, WILL BE MAINTAINED BY THE PROPERTY OWNER.

REMOVAL

1. REMOVALS SHALL BE DONE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. SAW CUTTING FOR PAVEMENT REMOVAL AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE TO THE DEPTH REQUIRED FOR NEAT REMOVAL OF PAVEMENT OR CONCRETE.
3. SAW CUTTING DEPTH SHALL BE ADEQUATE TO PREVENT SPALLING, CHIPPING, OR DAMAGE TO EXISTING PAVEMENT EDGES LEFT IN PLACE AS DIRECTED.
4. ANY ADDITIONAL TREE REMOVALS, CLEARING, GRADING, ETC. NEEDED FOR THE CONTRACTOR'S STAGING AND/OR WORK OPERATIONS SHALL BE APPROVED BY OWNER, COMPLETED AND AREA RESTORED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COMPENSATION.
5. ADDITIONAL WORK OUTSIDE OF THE LIMITS AS SHOWN ON THE PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING THE ADDITIONAL WORK.
6. MATERIALS REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF AT AN OFF SITE LOCATION.
7. DURING UTILITY INSTALLATION, IF ABANDONED UTILITIES ARE IN CONFLICT, THE CONTRACTOR SHALL CUT & CAP THE ABANDON UTILITY TO INSTALL THE NEW UTILITY.

AGGREGATE CONSTRUCTION

1. AGGREGATE USED FOR PAVEMENT BASE SHALL MEET THE REQUIREMENTS OF SECTION 902 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE MDOT CLASS 22A OR 21AA OR AS APPROVED BY THE ENGINEER.
2. AGGREGATE BASE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 302 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

CONCRETE CONSTRUCTION

1. CONCRETE USED FOR CURB AND SIDEWALK SHALL MEET THE REQUIREMENTS OF SECTION 601 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE MDOT GRADE P1 WITH A MINIMUM CEMENT CONTENT OF 526 LB/CYD OR AS APPROVED BY THE ENGINEER.
2. CONCRETE PAVEMENT CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. EXPANSION JOINTS WITH EXPANSION FILLER SHALL BE PLACED WHERE THE CONCRETE PAVEMENT ABUTS AN EXISTING PAVED SURFACE OR BUILDING OR AS DIRECTED BY THE ENGINEER.

HMA CONSTRUCTION

1. HMA USED FOR PAVEMENT SHALL MEET THE REQUIREMENTS OF SECTION 501 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND GRADE SHALL BE AS NOTED PER PLANS AND DETAILS OR AS APPROVED BY THE ENGINEER.
2. HMA PAVEMENT CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 501 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. HMA BOND COAT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF HMA PAVING.

PAVEMENT MARKING AND SIGNAGE

1. ACCESSIBLE PARKING SIGNS (R7-8 AND R7-8B) SHALL BE INSTALLED ON 3 LB STEEL POST IN ACCORDANCE WITH MDOT SIGNING SPECIAL DETAIL SIGN-200-E AND SECTION 810 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. 12" CROSSWALK THERMOPLASTIC PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF SECTION 920 AND BE APPLIED IN ACCORDANCE WITH SECTION 811 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. ACCESSIBLE PARKING PAVEMENT MARKING SYMBOLS SHALL BE IN ACCORDANCE WITH MDOT STANDARD PAVEMENT MARKING STANDARD PLAN PAVE-956-D.
4. PARKING STALL SPACES TO BE 4" SOLID YELLOW PAINT STRIPES, HANDICAP PARKING TO BE 4" SOLID BLUE PAINT STRIPES W/ BARRIER FREE STRIPING OF 4" SOLID BLUE @ 2" O.C. ON 45° ANGLE.

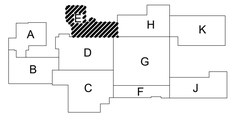
MAINTENANCE OF TRAFFIC

1. CONTRACTOR TO PROVIDE NECESSARY SIGNAGE, BARRICADES, AND OTHER DEVICES FOR PROTECTION OF THE PUBLIC AND CONSTRUCTION WORKERS PRIOR TO PERFORMING ANY WORK.

RESTORATION

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS UPON COMPLETION OF THE PROJECT.
2. ALL DISTURBED AREAS SHALL BE BROUGHT TO FINAL GRADE AND STABILIZED AS SOON AS POSSIBLE AFTER BEING DISTURBED. PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED WITHIN FIVE CALENDAR DAYS OF COMPLETING FINAL GRADING.
3. ALL PERMANENT SLOPES STEEPER THAN 4:1 SHALL BE STABILIZED USING MULCH BLANKETS AS LISTED ON THE PLANS.
4. CONTRACTOR SHALL PLACE 3" OF TOPSOIL, SEED OR MULCH AS INDICATED ON ALL DISTURBED AREAS NOT UNDER PAVEMENT OR AS OTHERWISE LABELED.
5. ALL FILL SHALL BE CLEAN INERT MATERIAL.

KEY PLAN



ISSUE DATE	ISSUED FOR
02/05/2025	PLAN REVIEW DOCUMENTS
04/10/2025	BID DOCUMENTS

DRAWN	RJC
CHECKED	RL
APPROVED	DWJ

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

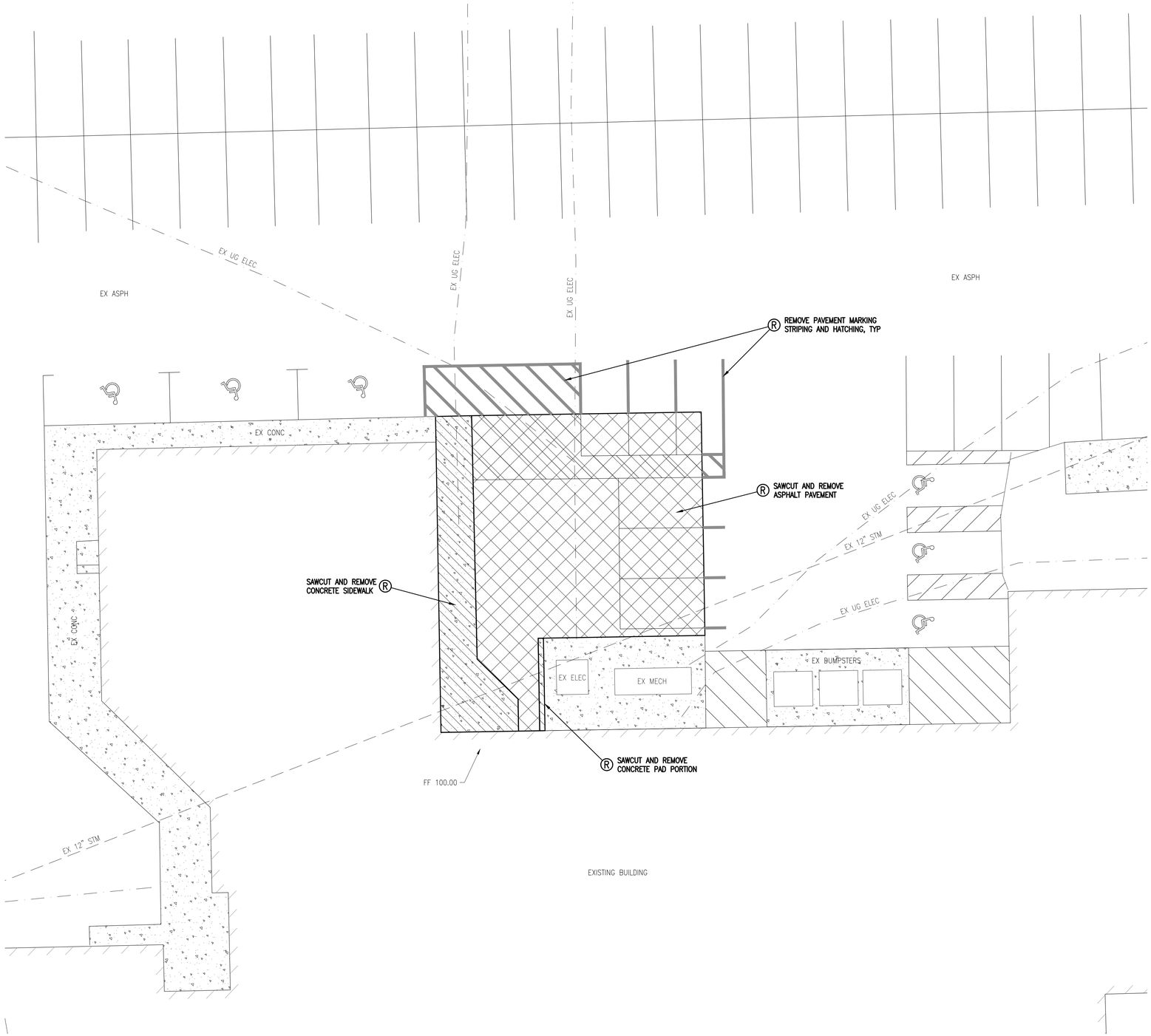
SHEET
UNIT E
CIVIL GENERAL NOTES

Know what's **below.**
Call before you dig.

PROJECT NUMBER
2024-053

SHEET NUMBER
C1.00E

2024-053 CHESANING HIGH SCHOOL



GRAPHIC SCALE: 1 inch = 10 feet

0 5 10 20 30

LEGEND

ASPHALT REMOVAL

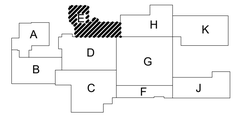
CONCRETE REMOVAL

PAVEMENT MARKING REMOVAL

NOTE:

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS INCLUDING LOCATIONS OF SITE FEATURES, FIELD MEASUREMENTS, AND EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.

KEY PLAN



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OHM

FRENCH

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Auburn Hills | MI 48326
248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

UNIT E
CIVIL REMOVAL PLAN

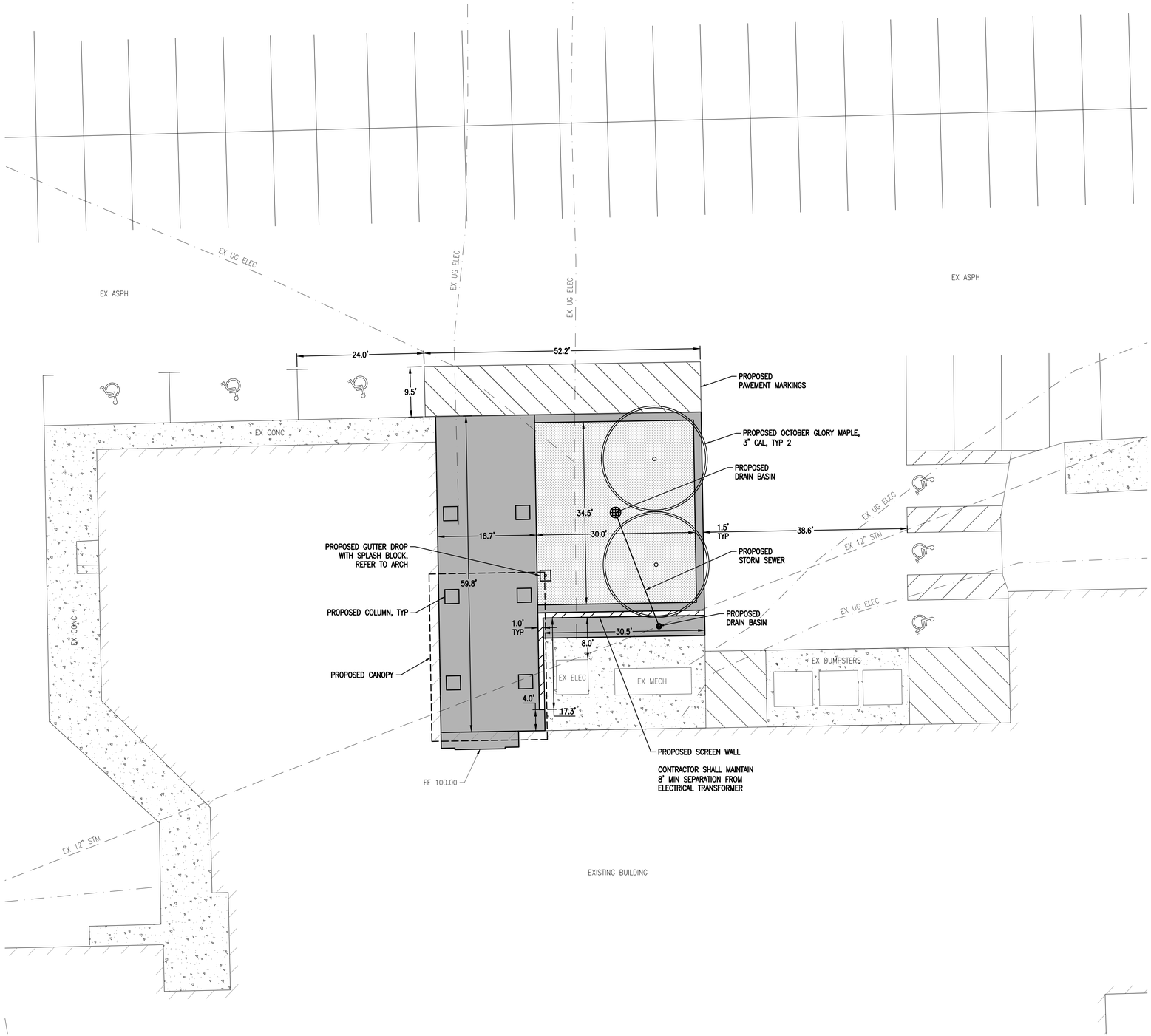
PROJECT NUMBER

2024-053

SHEET NUMBER

C2.00E

2024-053 CHESANING HIGH SCHOOL



GRAPHIC SCALE: 1 inch = 10 feet

0 5 10 20 30

LEGEND

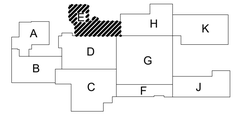
PROPOSED CONCRETE

PROPOSED HARDWOOD MULCH

NOTE:

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS INCLUDING LOCATIONS OF SITE FEATURES, FIELD MEASUREMENTS, AND EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.

KEY PLAN



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PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

UNIT E
CIVIL SITE PLAN

PROJECT NUMBER

2024-053

SHEET NUMBER

C3.00E

Know what's **below.**
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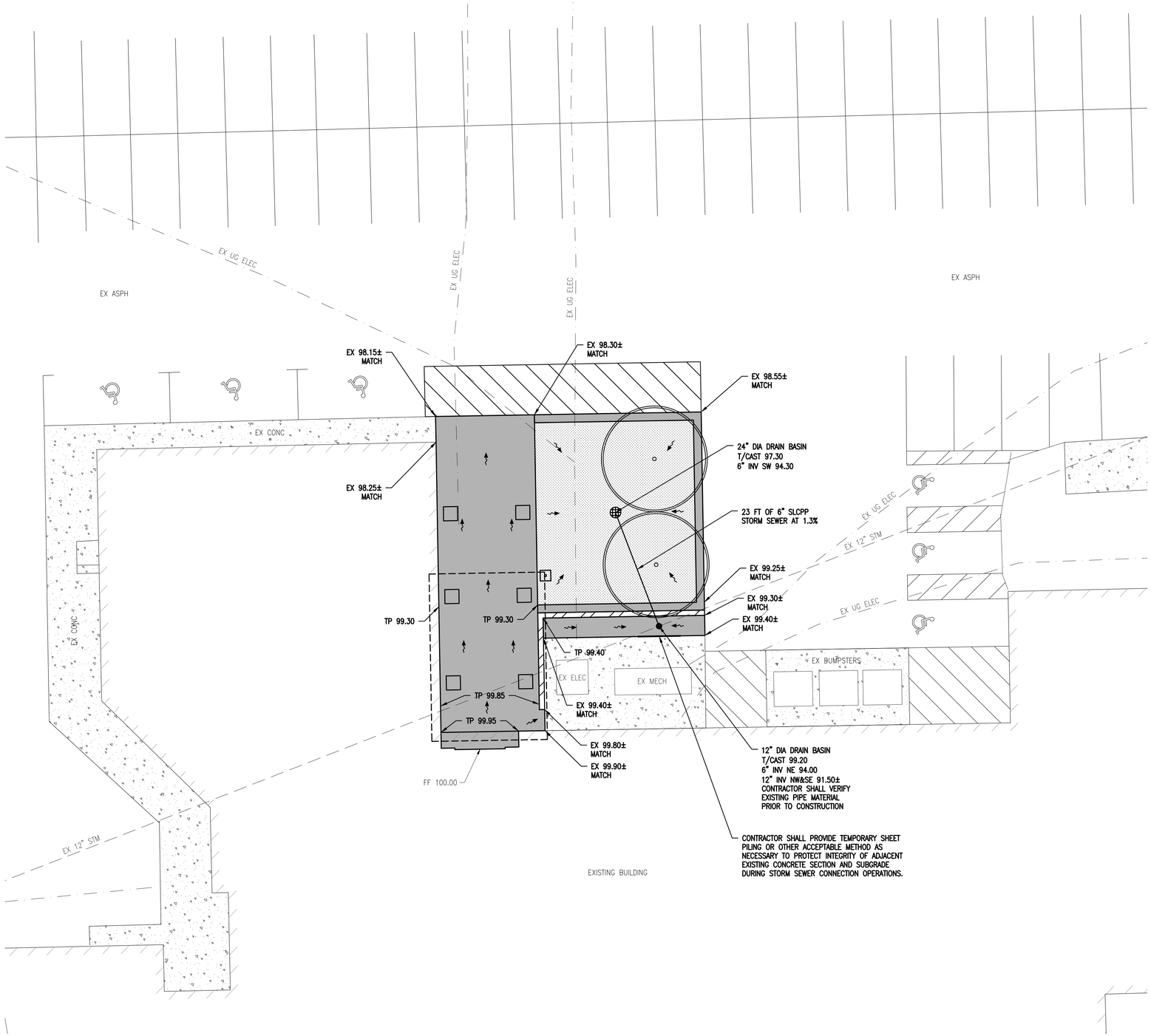
2024-053 CHESANING HIGH SCHOOL



GRAPHIC SCALE: 1 inch = 10 feet

0 5 10 20 30

LEGEND

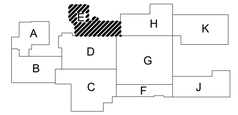
- PROPOSED CONCRETE
- PROPOSED HARDWOOD MULCH

FF	FINISHED FLOOR
EX	EXISTING
T/CAST	TOP OF STRUCTURE CASTING
TP	TOP OF PAVEMENT
TP 99.25	PROPOSED SPOT GRADE
~→	PROPOSED DRAINAGE FLOW ARROW

NOTE:

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS INCLUDING LOCATIONS OF SITE FEATURES, FIELD MEASUREMENTS, AND EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.

KEY PLAN



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PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

UNIT E
CIVIL GRADING PLAN

PROJECT NUMBER

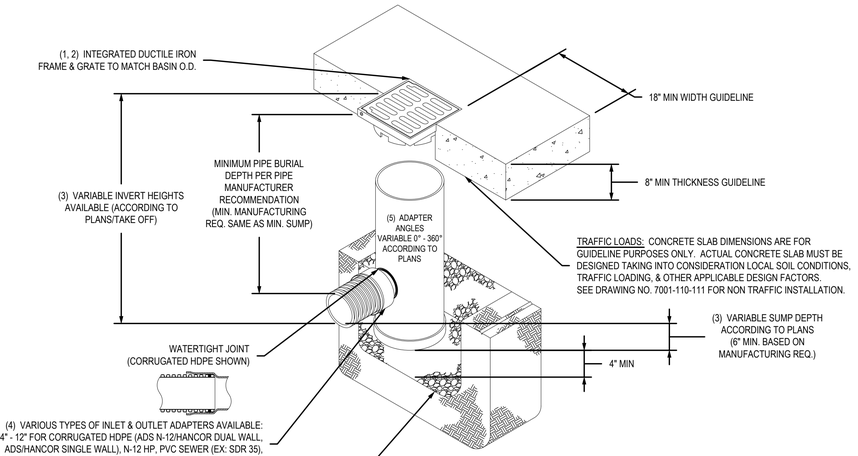
2024-053

SHEET NUMBER

C4.00E

2024-053 CHESANING HIGH SCHOOL

NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

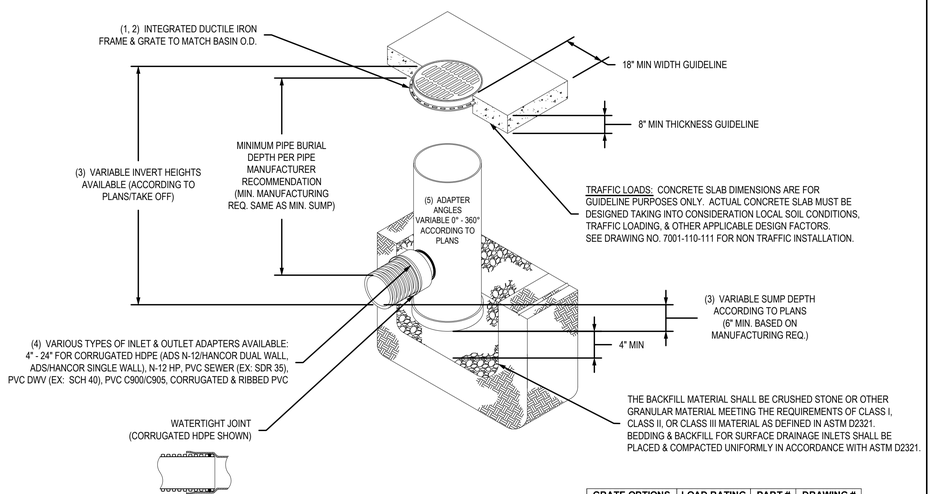
DRAWN BY	EBC	MATERIAL	
DATE	03-29-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-189 REV E

NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STANDARD	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

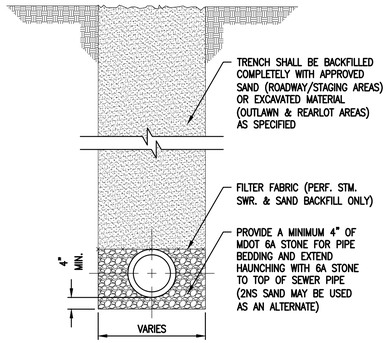
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

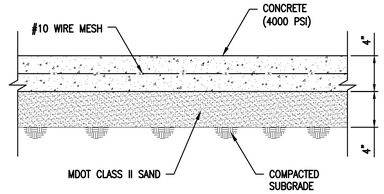
TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-192 REV E



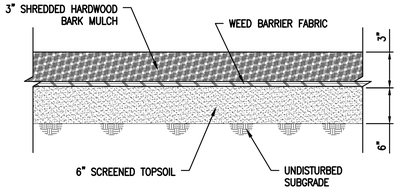
HDPE, SLCPP & PVC SEWER TRENCH DETAIL

NO SCALE



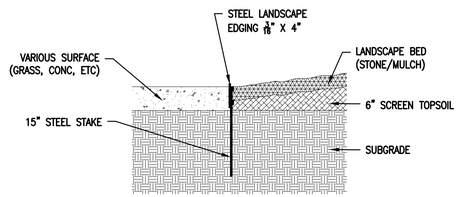
CONCRETE SURFACE DETAIL

NO SCALE



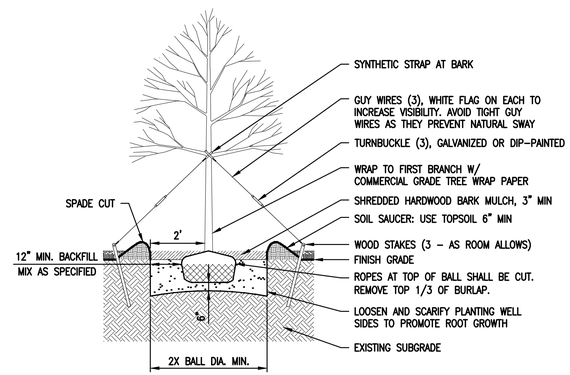
HARDWOOD MULCH DETAIL

NO SCALE



METAL EDGING DETAIL

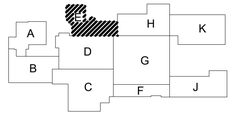
NO SCALE



TYPICAL TREE PLANTING

NO SCALE

KEY PLAN



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APPROVED	DWJ

OHM
FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

UNIT E
CIVIL DETAILS

PROJECT NUMBER

2024-053

SHEET NUMBER

C5.00E

2024-053 CHESANING HIGH SCHOOL

MATERIAL LEGEND

- SOIL
- ASPHALT AGGREGATE
- GRANULAR FILL
- STONE/GRAVEL
- CONCRETE
- CONCRETE MASONRY UNIT
- BRICK
- GLAZED HOLLOW CMU
- STRUCTURAL GLAZED TILE
- LIMESTONE
- MARBLE
- FINISH WOOD
- COMPOSITION/PLYWOOD
- CONTINUOUS WOOD BLOCKING
- BLOCKING OR SHIMS
- BATT INSULATION
- RIGID INSULATION
- PREMOLDED EXPANSION JOINT/ COMPRESSIBLE FILLER STRIP
- PLASTER OR GYPSUM BOARD
- CERAMIC OR QUARRY TILE
- TERRAZZO
- ACOUSTICAL PANEL OR ACOUSTICAL TILE
- EXISTING MATERIAL (IN SECTION)
- EXISTING MATERIAL (IN PLAN)
- DEMOLITION - TO BE REMOVED

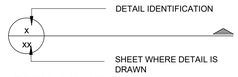
ABBREVIATIONS

AC	AIR CONDITIONING
ACOUST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
AL/ALUM	ALUMINUM
ANOD	ANODIZED
APC	ARCHITECTURAL PRECAST LINTEL
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AV	AUDIO/VISUAL
L	ANGLE
B CMU	BURNISHED CMU
BIT	BITUMINOUS
BD	BOARD
BF	BARRIER FREE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK/BEAM
BOT	BOTTOM
BRG	BEARING
BUR	BUILT-UP ROOF
CAB	CABINET
CUH	CABINET UNIT HEATER
CB	CHALKBOARD/CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS/CONTINUE
CONTR	CONTRACTOR
CORR	CORRUGATED
CPL	CEMENT PLASTER
CPT	CARPET
CT	CERAMIC TILE
CU	CONDENSING UNIT
CUSP	CUSPIDOR
CWF	CURTAINWALL FRAMING
D	DEPTH/DEEP
°	DEGREE
DC	DISPLAY CASE
DEMO	DEMOLISH/DEMOLITION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA/Ø	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EIFS	EXTERIOR INSULATION FINISH
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EX/EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FF	FORCED FLOW CABINET HEATER
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN FL	FINISH FLOOR
FLR	FLOOR
FOUND	FOUNDATION
FT/'	FEET
FTG	FOOTING
FRP	FIBERGLASS REINFORCED POLYESTER
GA	GAUGE
GALV	GALVANIZE(D)
GB	GRAB BARS
GHT	GLAZED HOLLOW TILE
GL	GLASS
GLCMU	GLAZED CMU
GLZD	GLAZED
GYP	GYPSUM
H/HGT	HEIGHT
HB	HOSE BIB
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIAMETER
IN/"	INCH
INCL	INCLUDE(D),(ING)
INSUL	INSULATION/INSULATE(D)
INT	INTERIOR
KIT	KITCHEN
JST	JOIST
JT	JOINT

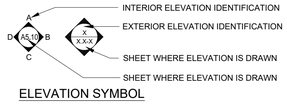
L	LENGTH
LAM	LAMINATE(D)
LAV	LAVATORY
LB/#	POUND
LGF	LIGHT GAUGE FRAMING
LIN	LINOLEUM
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMC	LINEAR METAL CEILING
LOC	LOCATION(S)
LP	LOW POINT
MANUF	MANUFACTURER
MAR	MARBLE THRESHOLD
MB	MARKER BOARD
MAS	MASONRY
MAT	MATERIAL/MAT
MAU	MAKE UP AIR UNIT
MAZ	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM/MINUTE
MISC	MISCELLANEOUS
ML	MASONRY LINTEL
MP	METAL PANEL
MWP	METAL WALL PANEL
MO	MASONRY OPENING
MET/MTL	METAL
MSF	METAL STUD FRAMING
MT	METAL THRESHOLD
NIC	NOT IN CONTRACT
NO/#	NUMBER
NOM	NOMINAL
NSF	NON-SLIP FINISH
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OS	OVERFLOW SUMP
PART	PARTICLE
PART'N	MOVABLE PARTITION
PC	PRECAST CONCRETE
PL	PLATE/PROPERTY LINE
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RISER/RADIUM
RB	RESILIENT WALL BASE/RUBBER BASE
RBF	RUBBER FLOORING
RC	RAIN CONDUCTOR
RES	RESILIENT
RS	ROOF SUMP
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION(S)
RF	ROOF EXHAUST FAN
RM	REMOVABLE MULLION/ROOM
RO	ROUGH OPENING
RWO	RIGHT OF WAY
RTU	ROOF TOP UNIT
RV	ROOF VENT
S	SINK
SAAC	SPRAY APPLIED ACOUSTICAL COATING
SCHED	SCHEDULE
SEAL	CONCRETE SEALER
SEC	SECTION
SFF	STOREFRONT FRAMING
SHT	SHEET
SIM	SIMILAR
SPEC(S)	SPECIFICATIONS
SP CMU	SPLIT FACE CMU
SPI	SPORTS IMPACT FLOORING
SPKR	SPEAKER
SQ	SQUARE
SS	SERVICE SINK/STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SVT	SOLID VINYL TILE
SV	SHEET VINYL
T	TREAD
T&B	TOP AND BOTTOM
TB	TACK BOARD
TC	TOP OF CURB
TEMP	TEMPERED
TER	TERRAZZO
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
VCT	VINYL COMPOSITION TILE
VCG	VINYL COVERED GYPSUM BOARD
VERT	VERTICAL
VIF	VERIFY IN FIELD
VUV	VERTICAL UNIT VENTILATOR
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDSC	WOOD SOUND CONTROL
WH	WATER HEATER
WP	WORKING POINT / WATERPROOF
WWF	WELDED WIRE FABRIC

SYMBOL LEGEND

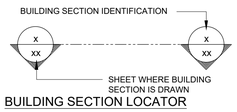
DRAWING SYMBOL



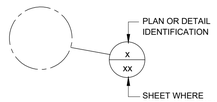
DETAIL LOCATOR



ELEVATION SYMBOL

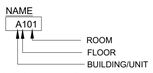


BUILDING SECTION LOCATOR

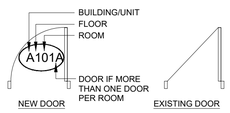


PLAN OR DETAIL BLOW-UP

COLUMN GRID



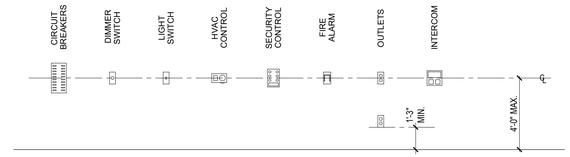
ROOM NAME AND NUMBER



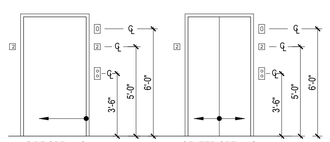
DOOR NUMBER AND SYMBOLS

MISCELLANEOUS SYMBOLS

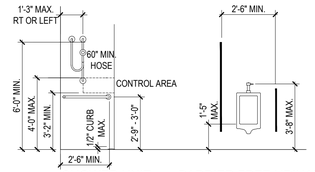
MOUNTING HEIGHTS



CONVENIENCE CONTROLS AND OUTLETS

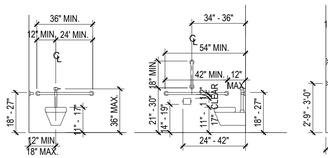


ELEVATORS

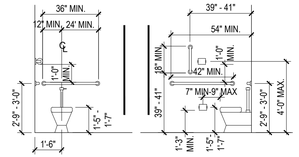


SHOWER UNIT

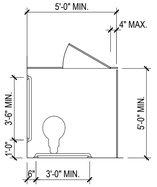
BARRIER FREE URINAL



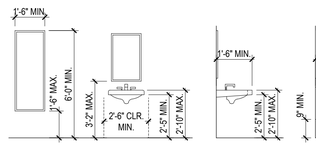
BARRIER FREE WATER CLOSET MOUNTING HEIGHTS FOR CHILDREN



BARRIER FREE WATER CLOSET



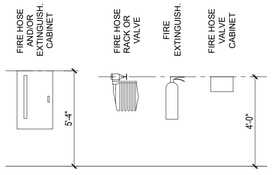
STALL LAYOUT



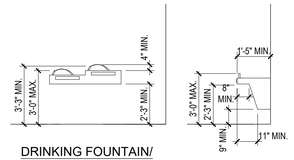
BARRIER FREE LAVATORIES AND MIRRORS

RAMP HANDRAIL

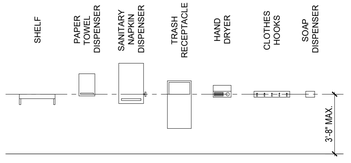
STAIR HANDRAIL



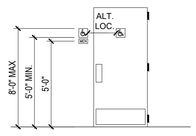
FIRE EXTINGUISHER EQUIPMENT



DRINKING FOUNTAIN/ ELECTRIC WATER COOLER

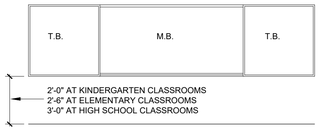


TOILET ROOM ACCESSORIES

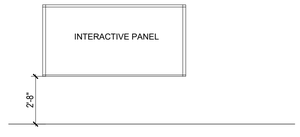


TOILET ROOM SIGNAGE

NOTE: HEIGHT ABOVE FLOOR TO BASELINE OF CHARACTER TO COMPLY WITH ICC/ANSI A117.1-2009 TABLE 703.2.4

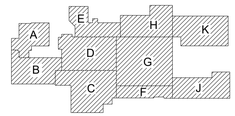


TACK BOARDS AND MARKER BOARDS



INTERACTIVE PANEL MOUNTING

KEY PLAN



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APPROVED	XXX WWJ

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

ARCHITECTURAL REFERENCE SHEET

PROJECT NUMBER

2024-053

SHEET NUMBER

A0.01

2024-053 CHESANING HIGH SCHOOL

CODE PLAN LEGEND

EXISTING BUILDING AREA TO REMAIN

LEVEL 1 ALTERATIONS AREA -
LEVEL 1 ALTERATIONS INCLUDE
FLOORING REPLACEMENT
EXTERIOR SOFFIT AND LIGHTING REPLACEMENT
SELECTED EXTERIOR DOOR/FRAME REPLACEMENT
HUV AND PIPING ENCLOSURE COVER REPLACEMENT

LEVEL 2 ALTERATIONS AREA -
LEVEL 2 ALTERATIONS INCLUDE
CREATE SECURITY VESTIBULE WITHIN EXISTING INTERIOR CORRIDOR
RECONFIGURE EXISTING INSTRUMENT STORAGE SPACE
CREATE WORKROOM SPACE

INDICATES EXISTING CORRIDOR WALL CONSTRUCTION TO BE MAINTAINED. REPLACEMENT DOORS IN THESE WALLS WILL BE 45 MINUTE RATED DOORS IN EXISTING FRAMES

INDICATES NEW 1 HOUR RATED FIRE AND SMOKE BARRIER CONSTRUCTION

EGRESS OCCUPANTS: - EGRESS OCCUPANT LOAD

EGRESS ROUTE W/ TRAVEL DISTANCE

- EGRESS DOOR CAPACITY

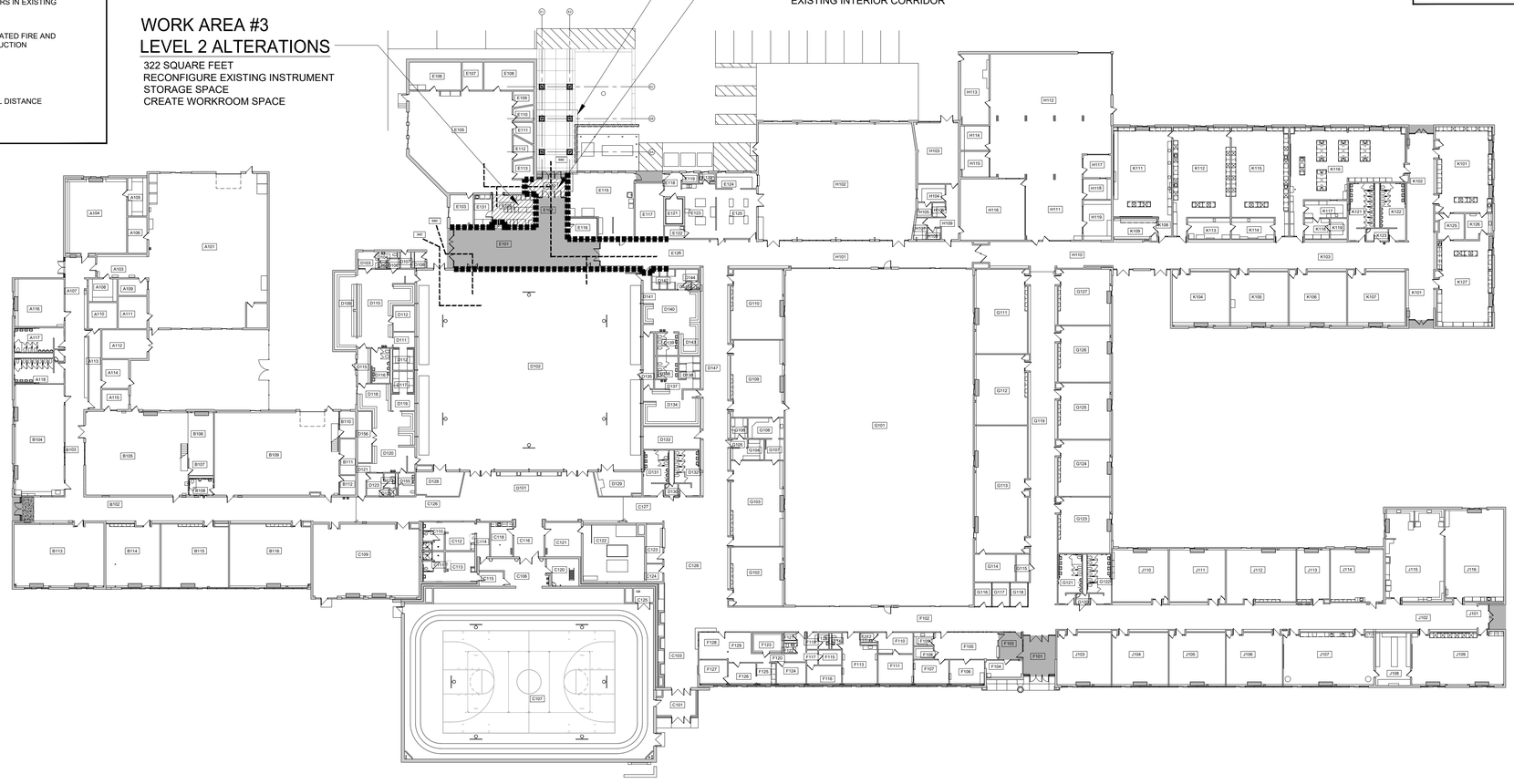
BUILDING CODE INFORMATION

1. REMODELING IS TO COMPLY WITH THE 2015 MICHIGAN REHABILITATION CODE AND THE SCHOOL FIRE SAFETY RULES.
2. EXISTING BUILDING IS TYPE E OCCUPANCY. NO CHANGE IN OCCUPANCY TYPE.
3. EXISTING BUILDING IS TYPE 2B CONSTRUCTION.
4. BUILDING OCCUPANT LOAD IS 1,100 OCCUPANTS. NO INCREASE IN OCCUPANT LOAD.
5. EXISTING BUILDING IS NOT SPRINKLED.
6. EXISTING BUILDING IS SINGLE STORY.
7. EXISTING FLOOR AREA IS 149,460 SQUARE FEET.
8. LEVEL 1 ALTERATIONS AREA = 3,323 SQUARE FEET
9. LEVEL 2 ALTERATIONS AREA = 1,177 SQUARE FEET.

FREE-STANDING EXTERIOR CANOPY (NON-COMBUSTIBLE MATERIALS) - NOT CONNECTED TO THE EXISTING BUILDING

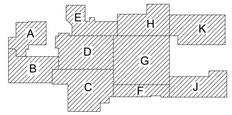
WORK AREA #2
LEVEL 2 ALTERATIONS
164 SQUARE FEET
CREATE SECURITY VESTIBULE WITHIN EXISTING INTERIOR CORRIDOR

WORK AREA #3
LEVEL 2 ALTERATIONS
322 SQUARE FEET
RECONFIGURE EXISTING INSTRUMENT STORAGE SPACE
CREATE WORKROOM SPACE



CODE P[LAN
SCALE: 1/32" = 1'-0"

KEY PLAN



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CHECKED	RL
APPROVED	DWJ

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2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

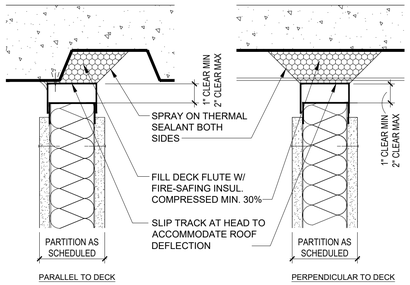
Chesaning,
Michigan

SHEET
CODE PLAN

PROJECT NUMBER
2024-053

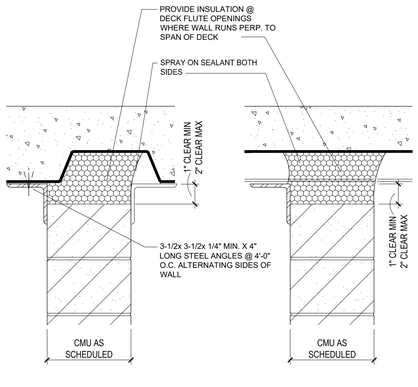
SHEET NUMBER
A0.02

2024-053 CHESANING HIGH SCHOOL



E TYPICAL SMOKE-RATED METAL STUD PARTITION CONSTRUCTION

A0.03 SCALE: NTS

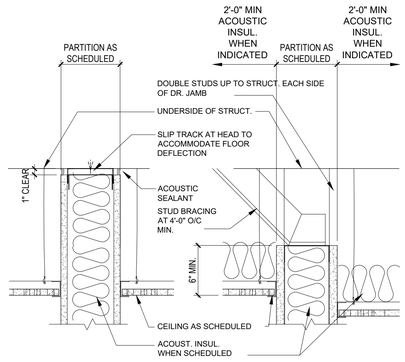


D TYPICAL NON-RATED CMU PARTITION CONSTRUCTION

A0.03 SCALE: NTS

NOTES:

1. DO NOT ANCHOR VERTICAL STUDS TO TOP RUNNER. ALLOW FOR STRUCTURAL SLAB DEFLECTION.

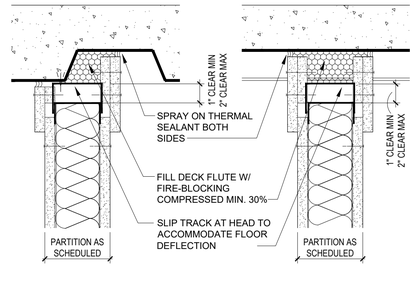


C TYPICAL NON-RATED CMU PARTITION CONSTRUCTION

A0.03 SCALE: NTS

NOTES:

1. PROVIDE FIRE-BLOCKING @ DECK FLUTE OPENINGS WHERE WALL RUNS PERP. TO SPAN OF DECK
2. ONE (1) OR TWO (2) HOUR RATING: UL DESIGN No. HW-0009 - SEE SPECIFICATION SECTION PENETRATION FIRESTOPPING.

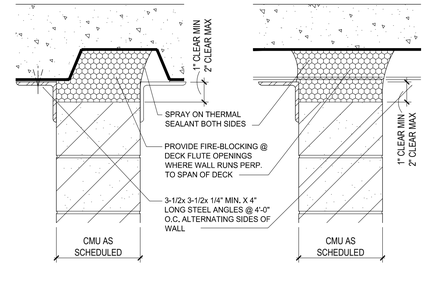


B TYPICAL FIRE-RATED METAL STUD PARTITION CONSTRUCTION

A0.03 SCALE: NTS

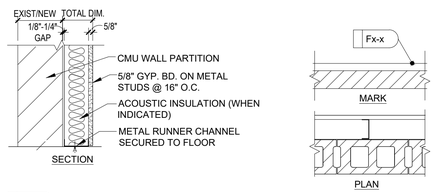
NOTES:

1. PROVIDE FIRE-BLOCKING @ DECK FLUTE OPENINGS WHERE WALL RUNS PERP. TO SPAN OF DECK.
2. DO NOT ANCHOR VERTICAL STUDS TO TOP RUNNER. ALLOW FOR STRUCTURAL SLAB DEFLECTION.
3. ONE (1) HOUR RATING: UL DESIGN No. HW-D-0001 - SEE SPECIFICATION SECTION PENETRATION FIRESTOPPING.



A TYPICAL FIRE-RATED CMU PARTITION CONSTRUCTION

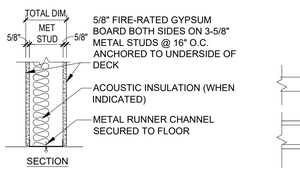
A0.03 SCALE: NTS



- F0-_ — 5/8" GYP. BD. ON 7/8" METAL HAT CHANNEL @ 16" O.C. W/ 3/4" THERMAL INSULATION (WHEN INDICATED) ON CMU PARTITION. TOTAL WALL DIM.= 1-1/2" + CMU THICKNESS
- F1-_ — 5/8" GYP. BD. ON 1-1/2" METAL HAT CHANNEL @ 16" O.C. W/ 1-1/2" THERMAL INSULATION (WHEN INDICATED) ON CMU PARTITION. TOTAL WALL DIM.= 2-1/8" + CMU THICKNESS
- F2-_ — 5/8" GYP. BD. ON 1-5/8" METAL STUDS @ 16" O.C. W/ 1-1/2" THERMAL INSULATION IN PARTITION (WHEN INDICATED) ON CMU PARTITION. TOTAL WALL DIM.= 2-1/2" + CMU THICKNESS
- F3-_ — 5/8" GYP. BD. ON 2-1/2" METAL STUDS @ 16" O.C. W/ 2-1/2" THERMAL INSULATION IN PARTITION (WHEN INDICATED) ON CMU PARTITION. TOTAL WALL DIM.= 3-1/4" + CMU THICKNESS
- F4-_ — 5/8" GYP. BD. ON 3-5/8" METAL STUDS @ 16" O.C. W/ 3-1/2" THERMAL INSULATION IN PARTITION (WHEN INDICATED) ON CMU PARTITION. TOTAL WALL DIM.= 4-1/2" + CMU THICKNESS
- F6-_ — 5/8" GYP. BD. ON 6" METAL STUDS @ 16" O.C. W/ 5-1/2" THERMAL INSULATION IN PARTITION (WHEN INDICATED) ON CMU PARTITION. TOTAL WALL DIM.= 7-1/2" + CMU THICKNESS

F_ STUD FURRING/ CMU PARTITION

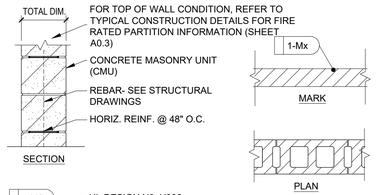
SCALE: NOT TO SCALE



- 1-S4 — UL DESIGN No. U465 5/8" FIRE-RATED GYP. BD. BOTH SIDES ON 3-5/8" METAL STUDS @ 16" O.C. TO UNDERSIDE OF DECK W/ 3-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 4-7/8"
- 1-S6 — UL DESIGN No. U465 5/8" FIRE-RATED GYP. BD. BOTH SIDES ON 6" METAL STUDS @ 16" O.C. TO UNDERSIDE OF DECK W/ 5-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 7-1/4"

1-S 1-HOUR FIRE-RATED STUD WALL PARTITION

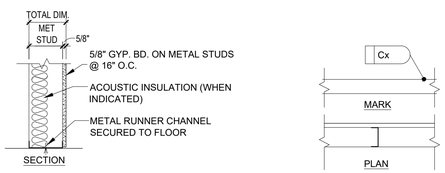
SCALE: NOT TO SCALE



- 1-M6 — UL DESIGN N0. U906 6" CMU (NOMINAL DIM.) TOTAL CMU DIM. = 5-5/8"
- 1-M8 — UL DESIGN NO. U905 8" CMU (NOMINAL DIM.) TOTAL CMU DIM. = 7-5/8"
- 1-M10 — UL DESIGN NO. U905 10" CMU (NOMINAL DIM.) TOTAL CMU DIM. = 9-5/8"
- 1-M12 — UL DESIGN NO. U905 12" CMU (NOMINAL DIM.) TOTAL CMU DIM. = 11-5/8"

1-M 1-HOUR FIRE-RATED CMU PARTITION

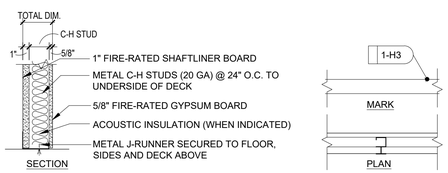
SCALE: NOT TO SCALE



- C1 — 5/8" GYP. BD. ON 1-5/8" METAL STUDS @ 16" O.C. W/ 1-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 2-1/4"
- C3 — 5/8" GYP. BD. ON 2-1/2" METAL STUDS @ 16" O.C. W/ 2-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 3-1/8"
- C4 — 5/8" GYP. BD. ON 3-5/8" METAL STUDS @ 16" O.C. W/ 3-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 4-1/4"
- C6 — 5/8" GYP. BD. ON 6" METAL STUDS @ 16" O.C. W/ 5-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 6-5/8"
- C8 — 5/8" GYP. BD. ON 8" METAL STUDS @ 16" O.C. W/ 6-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 8-5/8"

C STUD PARTITION (CHASE)

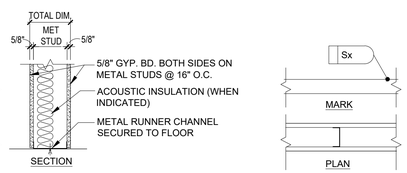
SCALE: NOT TO SCALE



- 1-H3 — UL DESIGN No. U415 SYSTEM A 2-1/2" METAL C-H STUDS (20 GA) @ 24" O.C. WITH 1" FIRE-RATED SHAFTLINER BOARD SHAFT SIDE AND 5/8" FIRE-RATED GYP. BD. ROOM SIDE TO UNDERSIDE OF DECK W/ 2-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 3-1/8"

1-H 1-HOUR FIRE-RATED STUD PARTITION (SHAFT)

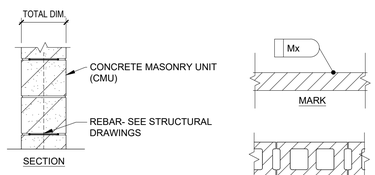
SCALE: NOT TO SCALE



- S1 — 5/8" GYP. BD. BOTH SIDES ON 1-5/8" METAL STUDS @ 16" O.C. W/ 1-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 2-7/8"
- S3 — 5/8" GYP. BD. BOTH SIDES ON 2-1/2" METAL STUDS @ 16" O.C. W/ 2-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 3-3/4"
- S4 — 5/8" GYP. BD. BOTH SIDES ON 3-5/8" METAL STUDS @ 16" O.C. W/ 3-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 4-7/8"
- S6 — 5/8" GYP. BD. BOTH SIDES ON 6" METAL STUDS @ 16" O.C. W/ 5-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 7-1/4"
- S8 — 5/8" GYP. BD. BOTH SIDES ON 8" METAL STUDS @ 16" O.C. W/ 8-1/2" ACOUSTIC INSULATION (WHEN INDICATED) TOTAL WALL DIM.= 9-1/4"

S STUD WALL PARTITION

SCALE: NOT TO SCALE



- M2 — 2" CMU (NOMINAL DIM.) TOTAL CMU DIM.= 1-5/8"
- M4 — 4" CMU (NOMINAL DIM.) TOTAL CMU DIM.= 3-5/8"
- M6 — 6" CMU (NOMINAL DIM.) TOTAL CMU DIM.= 5-5/8"
- M8 — 8" CMU (NOMINAL DIM.) TOTAL CMU DIM.= 7-5/8"
- M10 — 10" CMU (NOMINAL DIM.) TOTAL CMU DIM.= 9-5/8"
- M12 — 12" CMU (NOMINAL DIM.) TOTAL CMU DIM.= 11-5/8"

M CMU PARTITION

SCALE: NOT TO SCALE

GENERAL NOTES

1. NOT ALL DETAILS ON THIS SHEET WILL BE USED ON THIS PROJECT. DETAILS ARE TYPICAL AND SHALL APPLY WHEN CONSTRUCTION CONDITION EXISTS.
2. REFER TO STANDARD CONSTRUCTION DETAILS, SHEET A5.02 FOR TYPICAL INTERIOR PARTITION CONSTRUCTION INFORMATION AND RATED TOP OF WALL CONSTRUCTION. REFER TO DETAIL PLANS AND PLAN DETAILS FOR SPECIAL PARTITION CONSTRUCTION INFORMATION.
3. REFER TO DETAILS AND ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION REGARDING PARTITION CONSTRUCTION AND WALL FINISH INFORMATION.
4. REFER TO CODE PLANS ON SHEET A0.02 FOR LOCATIONS OF ALL FIRE RATED WALL ASSEMBLIES
5. REFER TO REFLECTED CEILING PLAN FOR LOCATION OF ACOUSTIC INSULATION ABOVE CEILING.

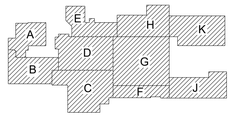
WALL TYPE LEGEND

A = METAL STUD W/ SOUND ISOLATING PROPERTIES
C = METAL STUD (CHASE WALL)
F = METAL STUD FURRING ON MASONRY
H = METAL STUD (SHAFT STUD)
J = METAL STUD (SHAFT STUD)
M = MASONRY (CMU)
S = METAL STUD
W= DOUBLE WYTH MASONRY (CMU)

INTERIOR PARTITION TYPE CODE

- X-X — INTERIOR WALL PARTITION CONSTRUCTION AS DETAILED, SHEET A5.01.
- X-X — INTERIOR WALL PARTITION CONSTRUCTION WITH ACOUSTIC INSULATION AS DETAILED, SHEET A5.01.
  - A) PROVIDE / INSTALL SEALANT UNDER PARTITION FLOOR TRACK BOTH EDGES WHEN ACOUSTIC INSULATION IS INDICATED AND AT ALL FIRE-RATED PARTITIONS.
  - B) ACOUSTIC INSULATION IS TO HAVE A MIN. STC RATING OF 50.

KEY PLAN



ISSUE DATE	ISSUED FOR
02/05/2025	PLAN REVIEW DOCUMENTS
04/10/2025	BID DOCUMENTS

DRAWN	EJC
CHECKED	RL
APPROVED	TWJ

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

PARTITION TYPES AND DETAILS

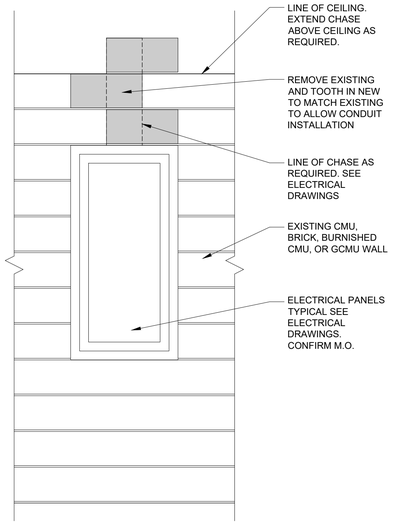
PROJECT NUMBER

2024-053

SHEET NUMBER

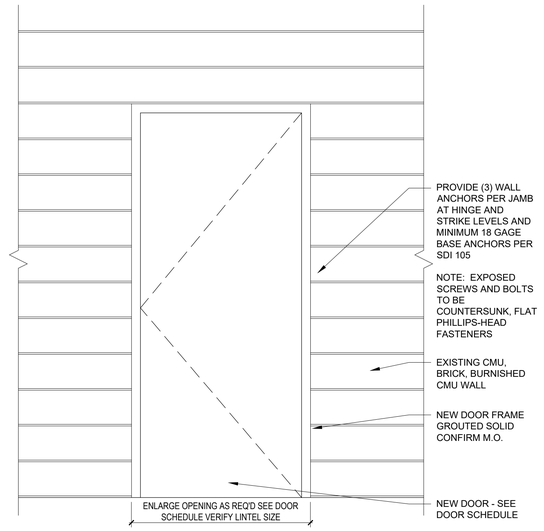
A0.03

2024-053 CHESANING HIGH SCHOOL



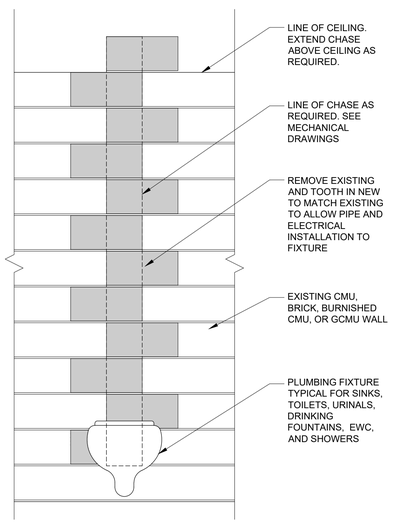
D TYPICAL ELECTRICAL DEVICE INSTALLATION IN EXISTING WALL

SCALE: 1/2" = 1'-0"



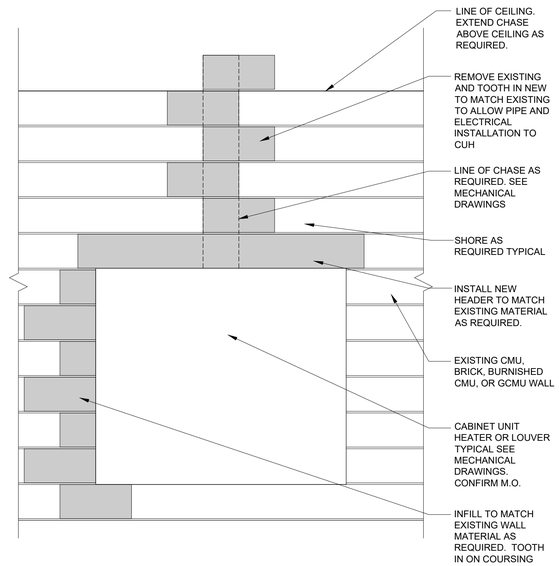
B TYPICAL DOOR INSTALLATION IN EXISTING MASONRY OPENING

SCALE: 1/2" = 1'-0"



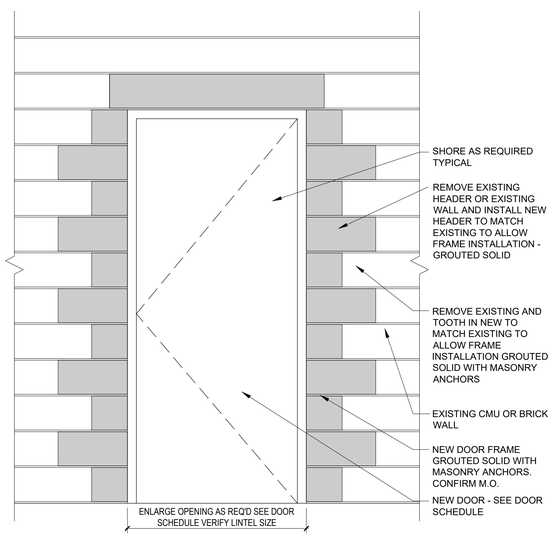
E TYPICAL PLUMBING FIXTURE INSTALLATION IN EXISTING WALL

SCALE: 1/2" = 1'-0"



C TYPICAL CABINET UNIT HEATER LOUVER INSTALLATION IN EXISTING WALL

SCALE: 1/2" = 1'-0"



A TYPICAL DOOR INSTALLATION IN EXISTING MASONRY WALL

SCALE: 1/2" = 1'-0"

DEMOLITION PLAN KEY NOTES (CONT'D)

10.1 REMOVE EXISTING WALL MOUNTED ITEMS SUCH AS CHALK BOARDS/TACK BOARDS/MARKER BOARDS PLAQUES, ETC.

10.2 REMOVE EXISTING FOLDING PARTITION PANELS, SLIDING TRACK, HANGERS, ETC.

10.3 REMOVE EXISTING TOILET ACCESSORIES INCLUDING PAPER TOWEL DISPENSER, SOAP DISPENSER, MIRROR, ETC.

10.4 REMOVE EXISTING TOILET PARTITIONS AND ATTACHED ACCESSORIES.

10.5 REMOVE EXISTING LOCKERS AND BASE.
10.5A REMOVE EXISTING LOCKERS ONLY. EXISTING BASE TO REMAIN.

11.1 REMOVE EXISTING GYMNASIUM EQUIPMENT INCLUDING BASKETBALL HOOPS, BACKBOARDS, PEG BOARDS, ETC.

11.2 REMOVE EXISTING WALL PADS AND RELATED MOUNTING ACCESSORIES.

11.3 REMOVE EXISTING SCOREBOARD. COORDINATE WITH ELECTRICAL DRAWINGS.

11.3 REMOVE EXISTING RECESSED TABLES, MOUNTING ACCESSORIES AND METAL TRIM ASSOCIATED.

12.1 REMOVE EXISTING CASEWORK IN ITS ENTIRETY. COORDINATE WITH ALL THE OTHER TRADES.

12.2 REMOVE EXISTING COAT/STORAGE CUBBY INCLUDING HOOKS, SHELF, MOUNTING BRACKETS, ETC.

12.4 REMOVE EXISTING MILLWORK IN ITS ENTIRETY. COORDINATE WITH ALL THE OTHER TRADES.

12.5 REMOVE EXISTING WINDOW TREATMENTS INCLUDING MOUNTING BRACKETS.

22.1 REMOVE EXISTING SHOWER PLUMBING FIXTURES AND CONTROLS PER MECHANICAL DRAWINGS.
22.1A REMOVE, SALVAGE AND REINSTALL EXISTING PLUMBING FIXTURES PER MECHANICAL DRAWINGS.

22.2 REMOVE EXISTING DRINKING FOUNTAIN/EWC PER MECHANICAL DRAWINGS.

23.1 REMOVE EXISTING HORIZONTAL UNIT VENTILATOR, INCLUDING SHROUD WHERE PRESENT. COORDINATE WITH MECHANICAL FOR EXTENT OF PIPING REMOVAL.
23.1A REMOVE EXISTING UNIT VENTILATOR PIPE ENCLOSURE(S) WHERE PRESENT (V.I.F.), INCLUDING MOUNTING HARDWARE. COORDINATE WITH MECHANICAL FOR EXTENT OF PIPING REMOVAL.

23.2 REMOVE EXISTING VERTICAL UNIT VENTILATOR. COORDINATE WITH MECHANICAL FOR EXTENT OF PIPING REMOVAL.

23.3 REMOVE EXISTING FIN TUBE/CONVECTOR COVER. COORDINATE WITH MECHANICAL FOR EXTENT OF PIPING REMOVAL.

23.4 REMOVE EXISTING EXTERIOR MECHANICAL LOUVER PER MECHANICAL DRAWINGS.
23.4A REMOVE, SALVAGE AND REINSTALL EXTERIOR MECHANICAL LOUVER.

23.5 REMOVE EXISTING CEILING MOUNTED UNIT HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.

23.6 REMOVE EXISTING WALL MOUNTED UNIT HEATER. PATCH AND REPAIR WALL BY INFILL THE OPENING WITH INSULATION AND PROVIDE COVER ENCLOSURE. COORDINATE WITH MECHANICAL AND ELECTRICAL.

26.1 REMOVE EXISTING LIGHT FIXTURES PER ELECTRICAL DRAWINGS.

26.2 REMOVE EXISTING TV MONITORS INCLUDING SUPPORT BRACKETS. COORDINATE WITH ELECTRICAL AND TECHNOLOGY.

26.3 REMOVE EXISTING BACKBORAD CONTROLS PER ELECTRICAL DRAWINGS.

32.1 REMOVE EXISTING PLANTS, TREES AND PAVEMENT FROM EXISTING COURTYARD AND PREPARE FOR NEW CONCRETE SLAB ON GRADE. REMOVE AND EXISTING STORM DRAINS AND PREPARE EXISTING STORM DRAIN LINES FOR CONNECTION OF NEW.

32.2 REMOVE EXISTING PARKING LOT PAVING AND STRIPING FOR NEW CONSTRUCTION. COORDINATE WITH CIVIL DRAWINGS.

DEMOLITION GENERAL NOTES

1. REFER TO PROJECT SPECIFICATION MANUAL FOR DEMOLITION CRITERIA BEFORE REMOVING ANY ITEMS.
2. REMOVE AND REPLACE EXISTING CONSTRUCTION AS REQUIRED FOR THE EXECUTION OF NEW WORK.
3. PROTECT EXISTING CONSTRUCTION TO REMAIN AS REQUIRED DURING DEMOLITION AND NEW WORK.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND FOR COORDINATION WITH ALL TRADES.
5. DISCONNECT ALL MISCELLANEOUS FEATURES (I.E. ELECTRICAL, MECHANICAL, PLUMBING, ETC.) ASSOCIATED WITH ITEMS TO BE DEMOLISHED (I.E. PARTITIONS, WALLS, CEILINGS, CABINETS ETC.).
6. REMOVAL OF ANY MECHANICAL, ELECTRICAL AND MISCELLANEOUS ITEMS WILL REQUIRE PATCH AND REPAIR OF ADJACENT MATERIALS TO REMAIN SHALL BE PREP AS REQUIRED TO RECEIVE NEW FINISHES.
7. PATCH AND REPAIR ALL SURFACES TO REMAIN TO MATCH EXISTING ADJACENT SURFACES AND PREP AS REQUIRED TO RECEIVE NEW FINISHES.
8. CONTRACTOR SHALL PLACE ANY ITEMS OR MATERIALS TO BE RETAINED IN A SECURE LOCATION AS DIRECTED BY OWNER.
9. REMOVAL OF TACKSTRIPS AS REQUIRED FOR DEMOLITION AND NEW WORK SHALL BE CUT IF POSSIBLE TO LEAVE MAXIMUM AMOUNT INTACT. PATCH AND REPAIR HOLES AT REMOVED LOCATIONS.
10. REMOVAL OF ALL EXISTING WALL AND CEILING MOUNTED SIGNAGE, MAP ROLLS, PROJECTORS, SCREENS, ETC. FOR DEMOLITION AND NEW WORK . PATCH AND REPAIR AS REQUIRED FOR NEW WORK AND FINISHED PAINT.
11. REMOVAL OF ALL EXISTING SPEAKERS, HORNS, FANS, OUTLETS, CLOCKS, ETC. PROVIDE NEW COVER PLATES AND PREP FOR FINISHED PAINT. COORDINATE WITH MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
12. REMOVAL OF MISC DOOR HARDWARE (STOPS, HOLD OPENS, ETC.) FROM EXISTING FRAMES, WALLS, FLOORS, ETC. BONDO EXISTING HOLLOW METAL FRAMING AND PATCH WALLS AS REQUIRED AT REMOVED HARDWARE. PATCH AND REPAIR AS REQUIRED FOR NEW WORK AND FINISHED PAINT.
13. REMOVE EXISTING UNUSED NAILS, SCREWS AND OTHER WALL PROTRUSIONS FROM EXISTING SURFACES TO REMAIN. PATCH AND REPAIR TO MATCH EXISTING SURFACES AND PREP AS REQUIRED TO RECEIVE NEW FINISHES.

DEMOLITION PLAN KEY NOTES

NOTES BELOW ARE INDICATED ON THE DRAWINGS BY THIS SYMBOL: ◇
NOT ALL KEY NOTES MAY BE USED.

3.1 REMOVE EXISTING SUPPORTED CONCRETE SLAB FOR NEW CONSTRUCTION.

3.2 REMOVE EXISTING CONCRETE SIDEWALK FOR NEW CONSTRUCTION. COORDINATE WITH CIVIL DRAWINGS.

3.3 SAW CUT EXISTING CONCRETE SLAB AS REQUIRED FOR UNDERGROUND PIPING.

3.4 REMOVE EXISTING RAISED CONCRETE PAD

3.5 REMOVE EXISTING CONCRETE STAIR

4.1 REMOVE PORTION OF EXISTING EXTERIOR BRICK/MASONRY WALL AS REQUIRED BY NEW CONSTRUCTION.
4.1A REMOVE PORTION OF EXISTING EXTERIOR BRICK/MASONRY WALL FOR INSTALLATION OF NEW OPENING.

4.2 REMOVE PORTION OF EXISTING INTERIOR MASONRY WALL AS REQUIRED FOR NEW CONSTRUCTION. REMOVE TO 8" BELOW TOP OF FLOOR SLAB. COORDINATE REMOVAL WITH EXISTING WALL MOUNTED ITEMS.
4.2A REMOVE PORTION OF EXISTING INTERIOR MASONRY WALL FOR INSTALLATION OF NEW OPENING.

5.1 REMOVE EXISTING STRUCTURAL STEEL, JOISTS, DECK, ETC. AS REQUIRED BY NEW CONSTRUCTION.

5.2 REMOVE EXISTING METAL STAIRS IN ITS ENTIRETY.

6.1 REMOVE EXISTING STUD/GYP PARTITION AS REQUIRED FOR NEW CONSTRUCTION.
6.1A REMOVE PORTION OF EXISTING STUD/GYP PARTITION FOR INSTALLATION NEW DOOR/WINDOW FRAME.

6.2 REMOVE EXISTING EXTERIOR SOFFIT (HORIZONTAL AND VERTICAL FACES) FINISHES AND EXISTING SOFFIT WOOD FRAMING (V.I.F.) FOR NEW CONSTRUCTION.

7.1 REMOVE EXISTING ROOFING AS REQUIRED BY NEW CONSTRUCTION.
7.1A REMOVE EXISTING ROOFING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS.

8.1 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY
8.1A REMOVE EXISTING DOOR AND FRAME FOR INSTALLATION OF NEW REPLACEMENT DOOR AND FRAME.
8.1B REMOVE EXISTING DOOR ONLY. EXISTING FRAME TO REMAIN.

8.2 REMOVE EXISTING WINDOW/GLAZING UNIT IN ITS ENTIRETY
8.2A REMOVE EXISTING WINDOW/GLAZING UNIT FOR INSTALLATION OF NEW REPLACEMENT WINDOW.
8.2B REMOVE EXISTING GLAZING ONLY. EXISTING FRAME TO REMAIN.

8.3 REMOVE EXISTING OVERHEAD COILING COUNTER/DOOR IN ITS ENTIRETY.

8.4 REMOVE EXISTING STOREFRONT DOORS, GLAZING AND FRAME FOR INSTALLATION OF NEW REPLACEMENT STOREFRONT DOORS, GLAZING AND FRAME.

8.5 REMOVE EXISTING THRESHOLD FOR INSTALLATION OF NEW THRESHOLD.

9.1 REMOVE EXISTING CARPET AND BASE.
9.1A REMOVE EXISTING CARPET. EXISTING GLAZED MASONRY BASE TO REMAIN.

9.2 REMOVE EXISTING VCT AND BASE.
9.2A REMOVE EXISTING VCT. EXISTING GLAZED MASONRY BASE TO REMAIN.

9.3 REMOVE EXISTING CERAMIC/PORCELAIN TILE AND BASE.
9.3A REMOVE EXISTING CERAMIC/PORCELAIN TILE FLOOR ONLY. EXISTING TILE BASE TO REMAIN.

9.4 REMOVE EXISTING RUBBER/SPORTS FLOORING. *OR OTHER FLOORING TYPE IE. GYM WOOD FLOOR*

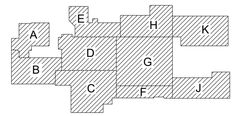
9.5 REMOVE EXISTING FLOORING BY OTHERS.

9.6 REMOVE EXISTING SUSPENDED CEILING SYSTEM IN ITS ENTIRETY, INCLUDING PADS, GRID, SUSPENSION WIRE, ETC.
9.6A REMOVE EXISTING ACOUSTIC CEILING TILES ONLY. EXISTING GRID, SUSPENSION WIRE TO REMAIN.
9.6B REMOVE/SALVAGE/MODIFY EXISTING ACOUSTIC CEILING TILE(S) AND GRID AS NEEDED FOR NEW HUV AND FIN TUBE VERTICAL PIPING. REFER TO MECHANICAL DRAWINGS.

9.7 REMOVE EXISTING GYPSUM/PLASTER CEILING SYSTEM IN ITS ENTIRETY, INCLUDING SUSPENSION WIRE, FRAMING, ETC.
9.7A REMOVE PORTION OF EXISTING GYPSUM/PLASTER CEILING SYSTEM TO NEAREST JOINT LINE.

9.8 REMOVE EXISTING CONCEALED SPLINE CEILING SYSTEM. *OR OTHER CEILING TYPE IE. LINEAR METAL*

KEY PLAN



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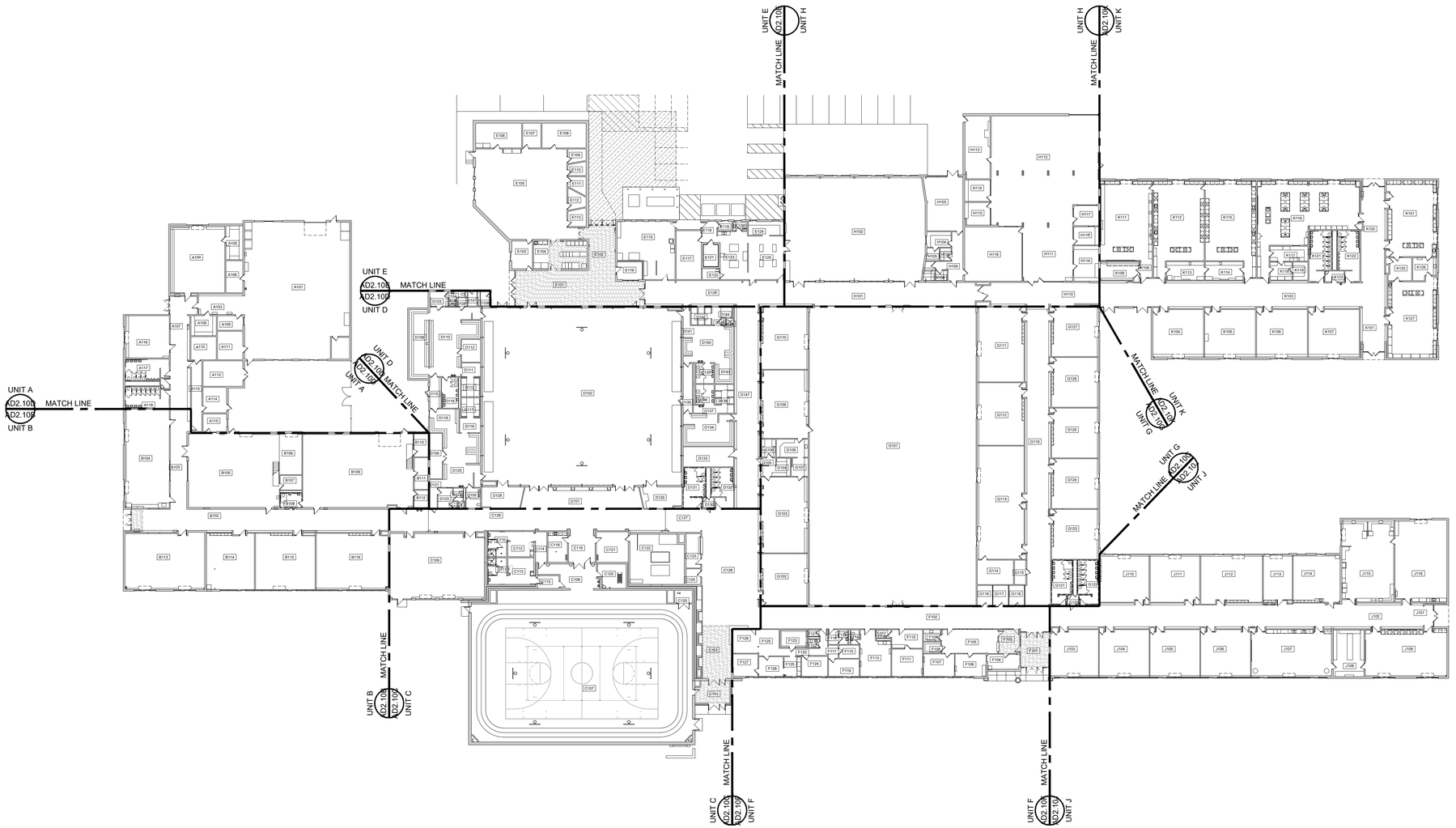
PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
DEMOLITION NOTES AND DETAILS

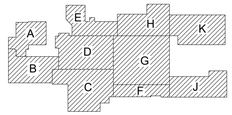
PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.00



COMPOSITE
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN



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Remodel

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Michigan

SHEET
COMPOSITE
DEMOLITION FIRST
FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10

2024-053 CHESANING HIGH SCHOOL

UNIT A
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. - - - - - DASHED LINES REPRESENTS DEMOLITION
3. REFER TO HARDWARE SCHEDULE FOR DOOR OPERATING HARDWARE REMOVAL FOR REPLACEMENT.

REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION

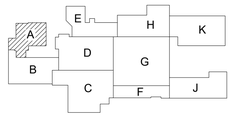
DEMOLITION LEGEND

SHADED AREA: DEMOLITION OF EXISTING FLOORING FINISHES / WALK-OFF RUGS / CARPET, INCLUDING ANY ADHESIVES. EXISTING TERRAZZO FLOORING TO REMAIN. REFER TO KEY NOTES FOR MORE INFORMATION. PREP SUBFLOOR AS REQUIRED FOR NEW WORK.

23.1 23.1A

A
AD2.10A
TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

KEY PLAN



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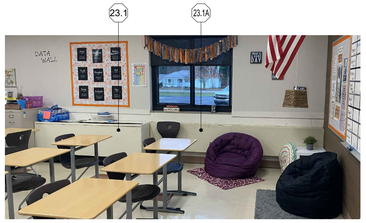
SHEET
UNIT A
DEMOLITION FIRST
FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10A

2024-053 CHESANING HIGH SCHOOL



DEMOLITION LEGEND

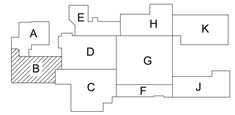
SHADED AREA: DEMOLITION OF EXISTING FLOORING FINISHES / WALK-OFF RUGS / CARPET, INCLUDING ANY ADHESIVES. EXISTING TERRAZZO FLOORING TO REMAIN. REFER TO KEY NOTES FOR MORE INFORMATION. PREP SUBFLOOR AS REQUIRED FOR NEW WORK.

DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. ----- DASHED LINES REPRESENTS DEMOLITION
3. REFER TO HARDWARE SCHEDULE FOR DOOR OPERATING HARDWARE REMOVAL FOR REPLACEMENT.

REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION

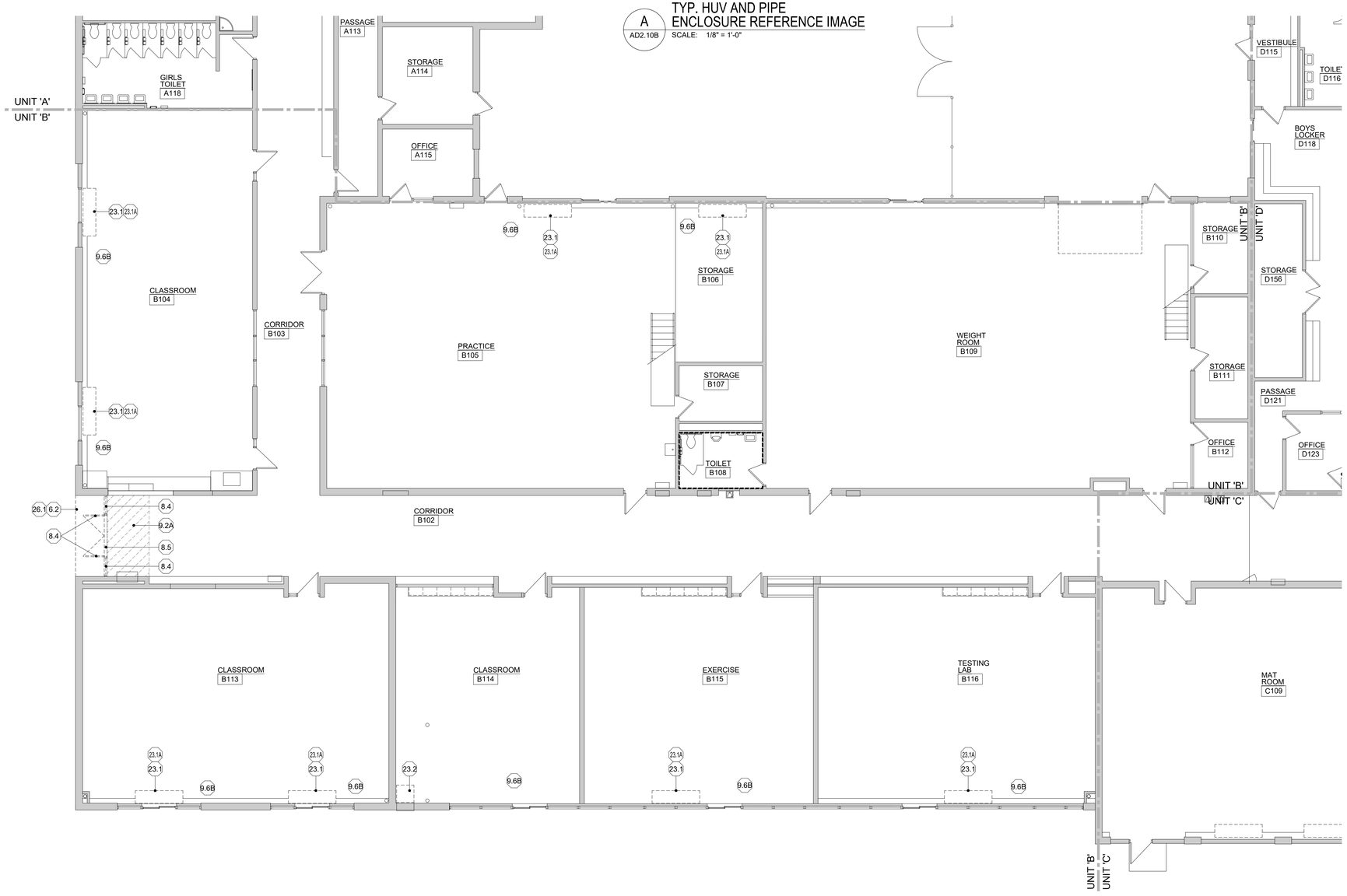
KEY PLAN



A
AD2.10B

TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE

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



UNIT B
DEMOLITION FIRST FLOOR PLAN

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

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Chesaning Union Schools
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Remodel

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SHEET

UNIT B
DEMOLITION FIRST
FLOOR PLAN

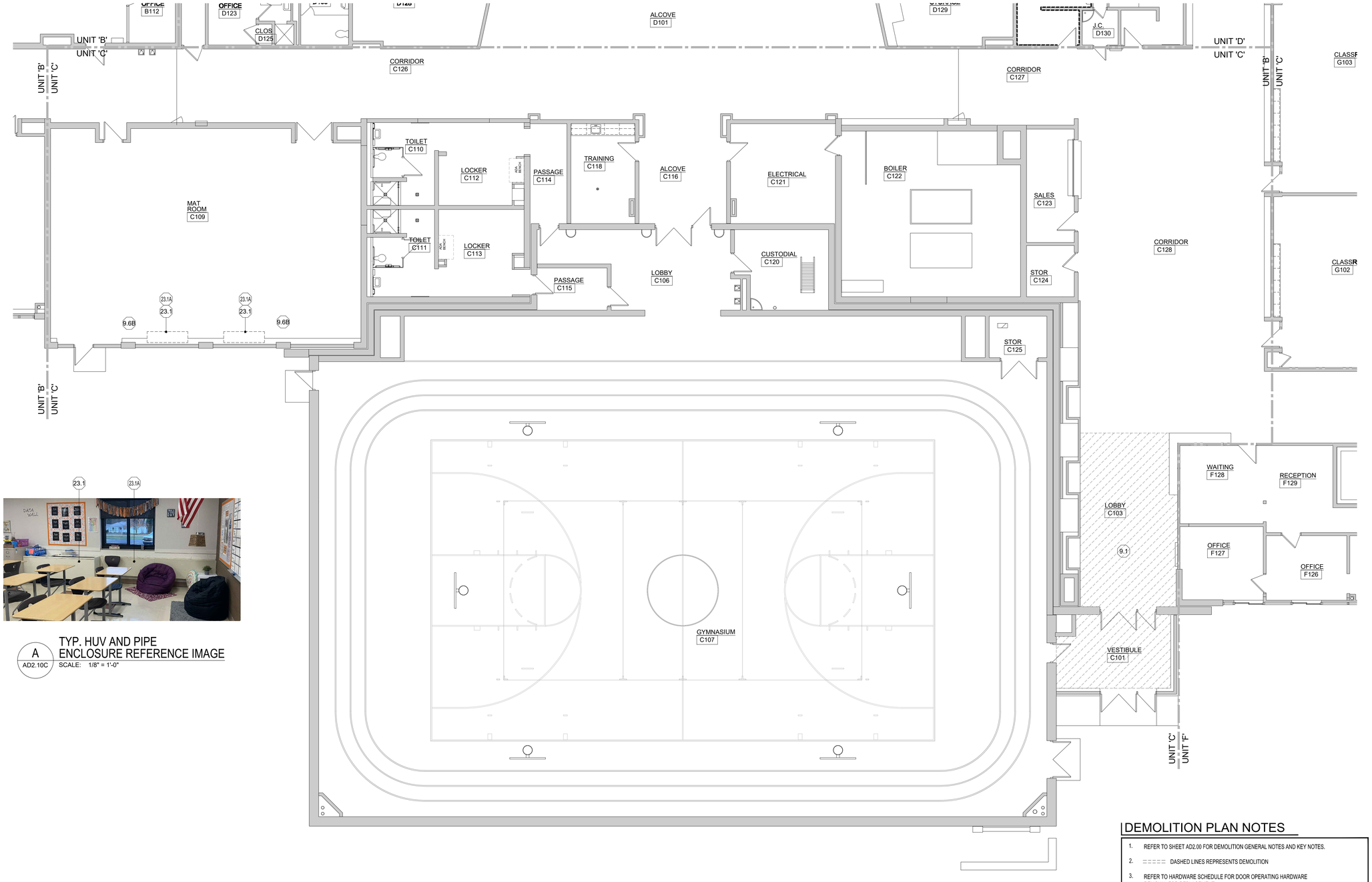
PROJECT NUMBER

2024-053

SHEET NUMBER

AD2.10B

2024-053 CHESANING HIGH SCHOOL



A
AD2.10C
TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

UNIT C
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION PLAN NOTES

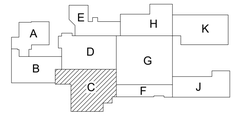
1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. ----- DASHED LINES REPRESENTS DEMOLITION
3. REFER TO HARDWARE SCHEDULE FOR DOOR OPERATING HARDWARE REMOVAL FOR REPLACEMENT.

REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION

DEMOLITION LEGEND

SHADED AREA: DEMOLITION OF EXISTING FLOORING FINISHES / WALK-OFF RUGS / CARPET, INCLUDING ANY ADHESIVES. EXISTING TERRAZZO FLOORING TO REMAIN. REFER TO KEY NOTES FOR MORE INFORMATION. PREP SUBFLOOR AS REQUIRED FOR NEW WORK.

KEY PLAN



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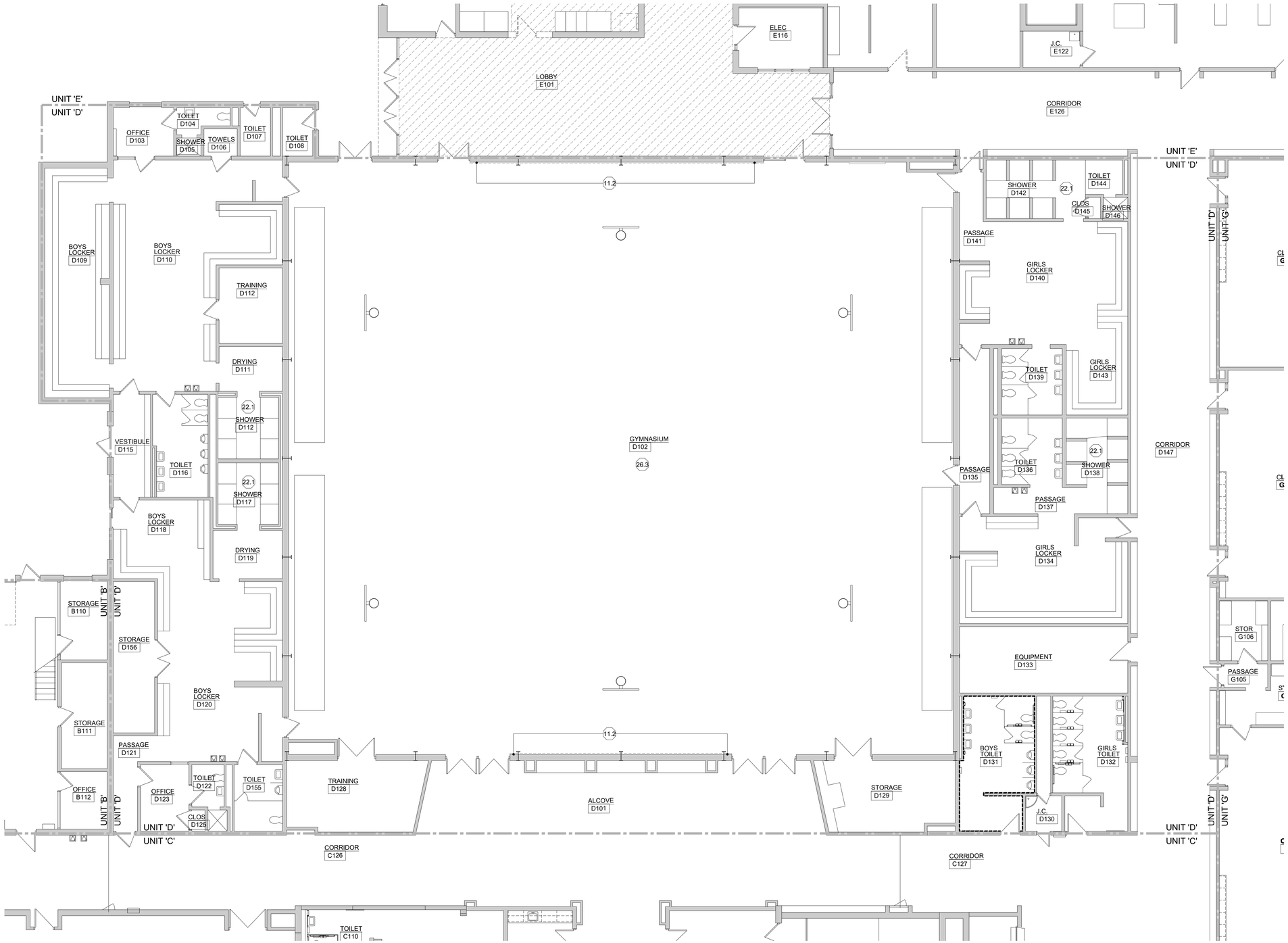
Michigan

SHEET
UNIT C
DEMOLITION FIRST
FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10C

2024-053 CHESANING HIGH SCHOOL



UNIT D
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION LEGEND

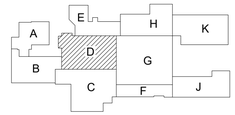
SHADED AREA: DEMOLITION OF EXISTING FLOORING FINISHES / WALK-OFF RUGS / CARPET, INCLUDING ANY ADHESIVES. EXISTING TERRAZZO FLOORING TO REMAIN. REFER TO KEY NOTES FOR MORE INFORMATION. PREP SUBFLOOR AS REQUIRED FOR NEW WORK.

DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. ===== DASHED LINES REPRESENTS DEMOLITION
3. REFER TO HARDWARE SCHEDULE FOR DOOR OPERATING HARDWARE REMOVAL FOR REPLACEMENT.

REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION

KEY PLAN



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Remodel

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SHEET
UNIT D
DEMOLITION FIRST
FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10D

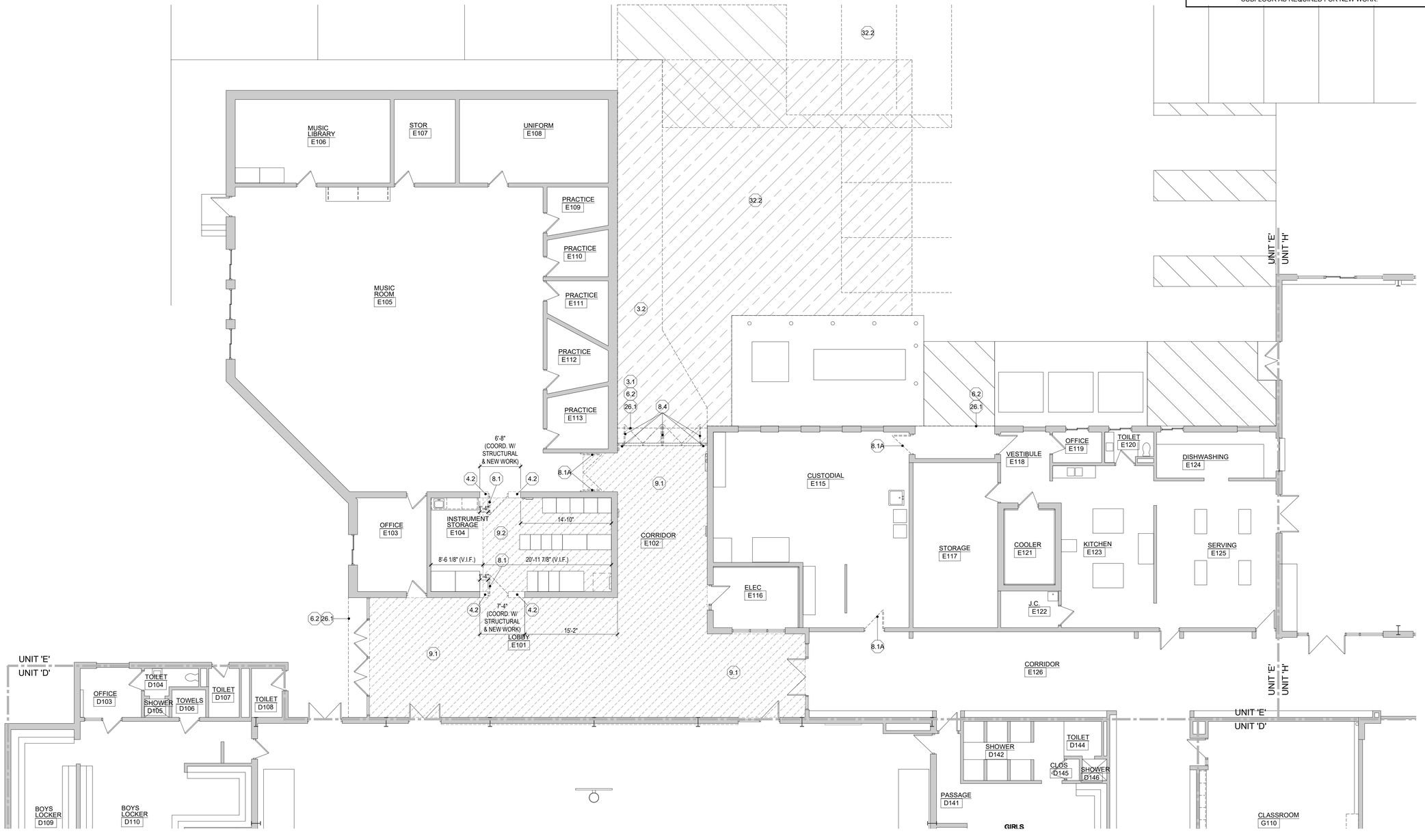
DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. - - - - - DASHED LINES REPRESENTS DEMOLITION
3. REFER TO HARDWARE SCHEDULE FOR DOOR OPERATING HARDWARE REMOVAL FOR REPLACEMENT.

REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION

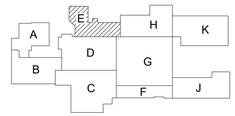
DEMOLITION LEGEND

SHADED AREA: DEMOLITION OF EXISTING FLOORING FINISHES / WALK-OFF RUGS / CARPET, INCLUDING ANY ADHESIVES. EXISTING TERRAZZO FLOORING TO REMAIN. REFER TO KEY NOTES FOR MORE INFORMATION. PREP SUBFLOOR AS REQUIRED FOR NEW WORK.



UNIT E
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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Chesaning,
Michigan

SHEET
UNIT E
DEMOLITION FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10E

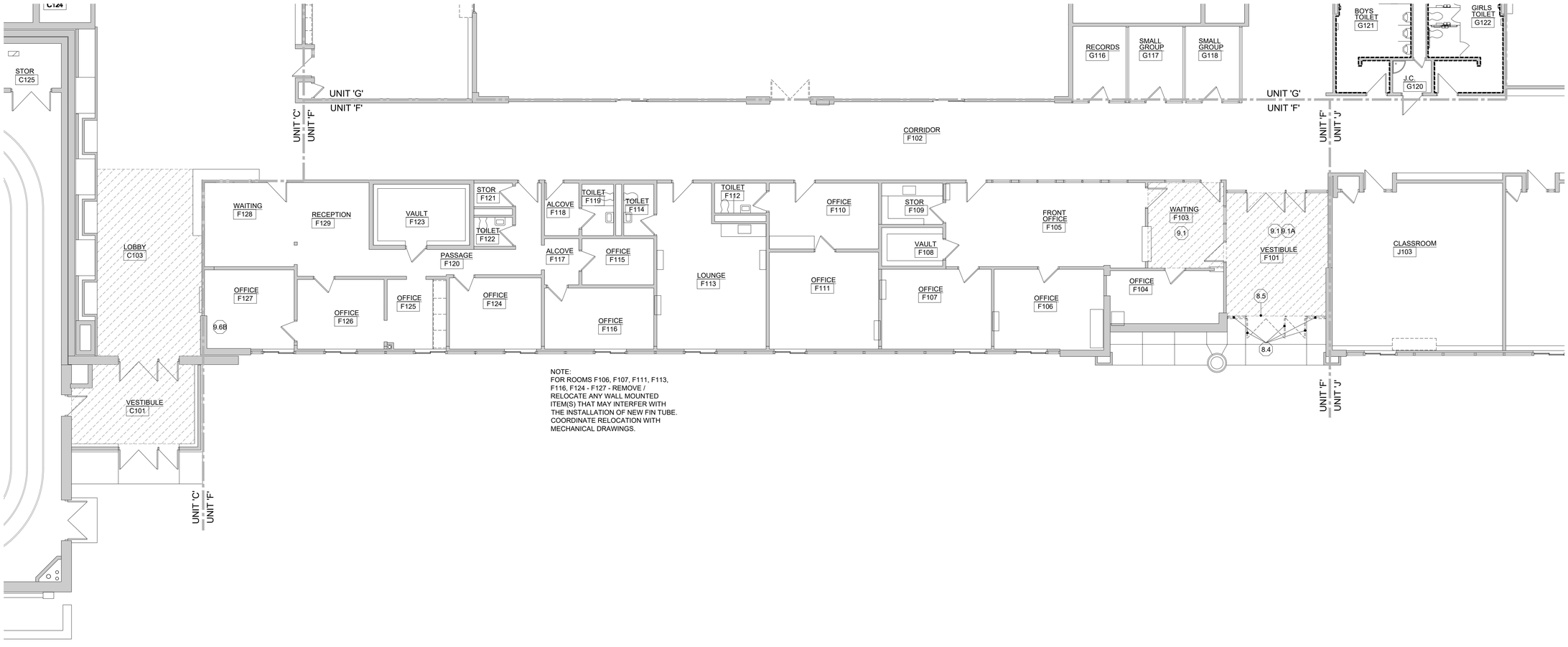
DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. ----- DASHED LINES REPRESENTS DEMOLITION
3. REFER TO HARDWARE SCHEDULE FOR DOOR OPERATING HARDWARE REMOVAL FOR REPLACEMENT.

REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION

DEMOLITION LEGEND

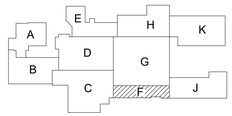
SHADED AREA: DEMOLITION OF EXISTING FLOORING FINISHES / WALK-OFF RUGS / CARPET, INCLUDING ANY ADHESIVES. EXISTING TERRAZZO FLOORING TO REMAIN. REFER TO KEY NOTES FOR MORE INFORMATION. PREP SUBFLOOR AS REQUIRED FOR NEW WORK.



NOTE:
FOR ROOMS F106, F107, F111, F113, F116, F124 - F127 - REMOVE / RELOCATE ANY WALL MOUNTED ITEM(S) THAT MAY INTERFER WITH THE INSTALLATION OF NEW FIN TUBE. COORDINATE RELOCATION WITH MECHANICAL DRAWINGS.

UNIT F
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

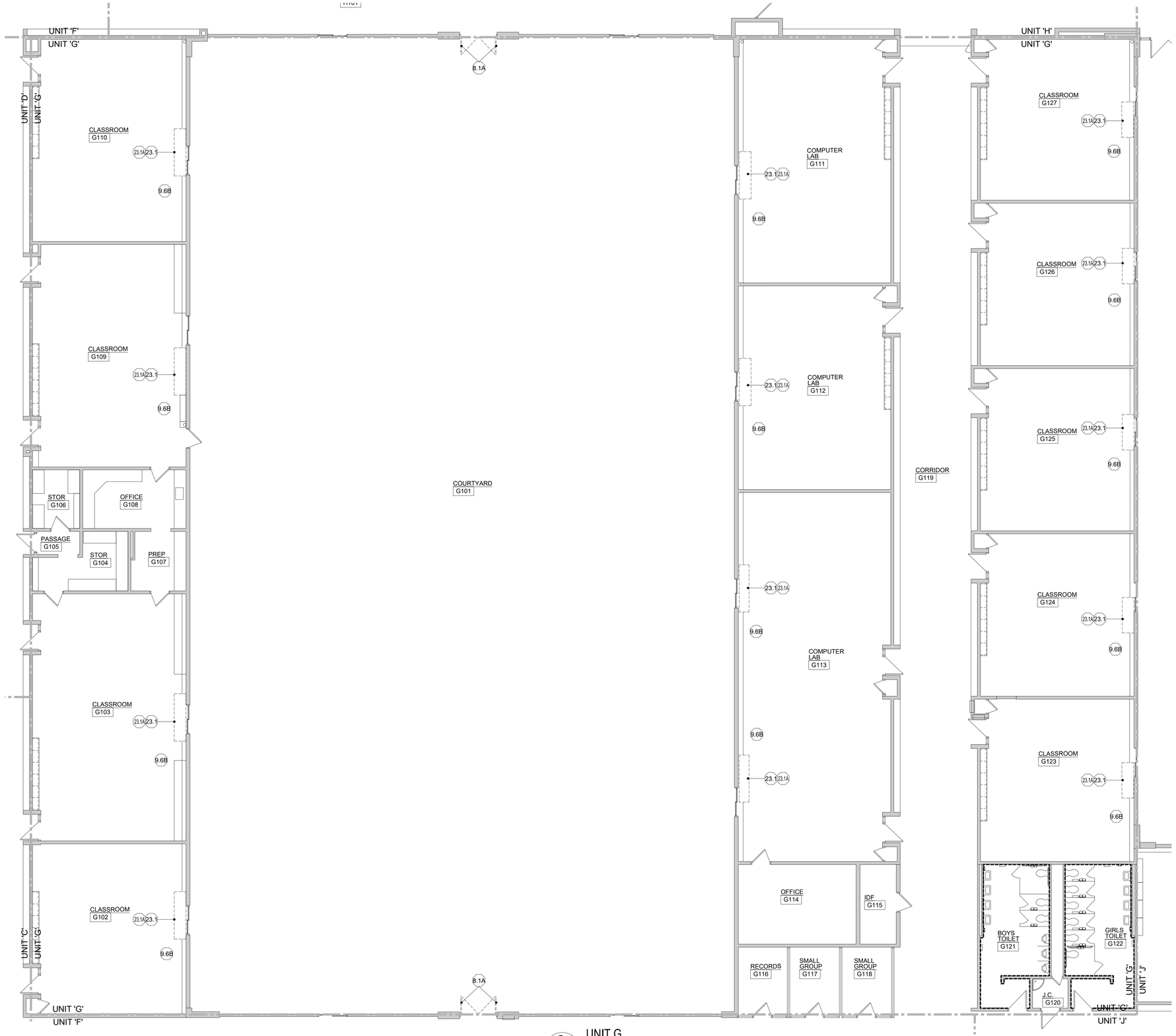
Chesaning,
Michigan

SHEET
UNIT F
DEMOLITION FIRST
FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10F

2024-053 CHESANING HIGH SCHOOL



UNIT G
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. ----- DASHED LINES REPRESENTS DEMOLITION
3. REFER TO HARDWARE SCHEDULE FOR DOOR OPERATING HARDWARE REMOVAL FOR REPLACEMENT.

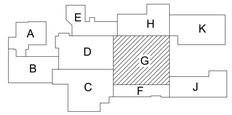
REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION

DEMOLITION LEGEND

SHADED AREA: DEMOLITION OF EXISTING FLOORING FINISHES / WALK-OFF RUGS / CARPET, INCLUDING ANY ADHESIVES. EXISTING TERRAZZO FLOORING TO REMAIN. REFER TO KEY NOTES FOR MORE INFORMATION. PREP SUBFLOOR AS REQUIRED FOR NEW WORK.

A AD2.10G
TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

KEY PLAN



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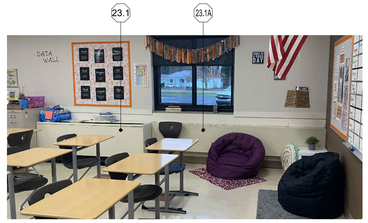
SHEET
UNIT G
DEMOLITION FIRST
FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10G

2024-053 CHESANING HIGH SCHOOL



A
AD2.10J
TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
2. ----- DASHED LINES REPRESENTS DEMOLITION
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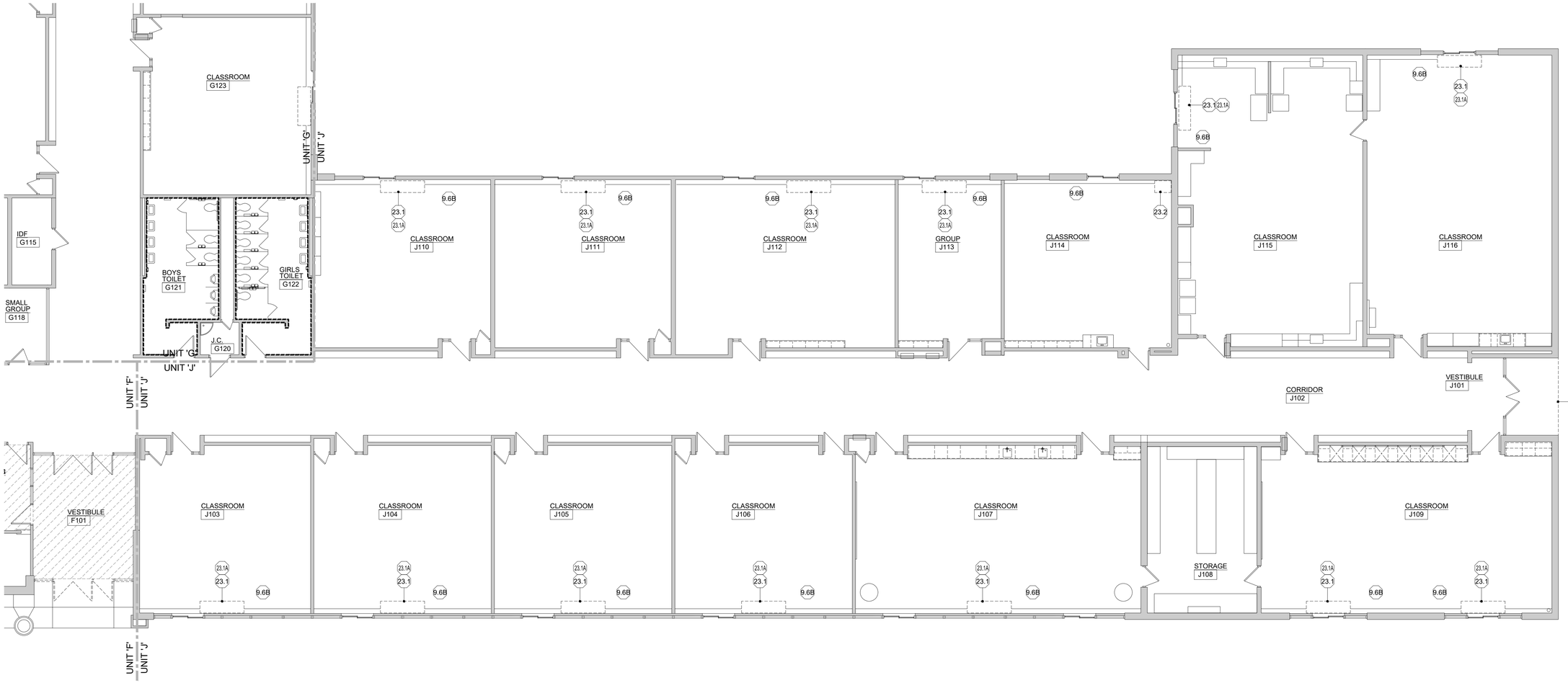
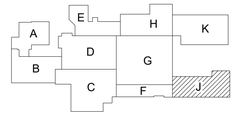


UNIT J
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT
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Remodel

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SHEET
UNIT J
DEMOLITION FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
AD2.10J

2024-053 CHESANING HIGH SCHOOL

A
AD2.10K

TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE

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

DEMOLITION PLAN NOTES

1. REFER TO SHEET AD2.00 FOR DEMOLITION GENERAL NOTES AND KEY NOTES.
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DEMOLITION LEGEND

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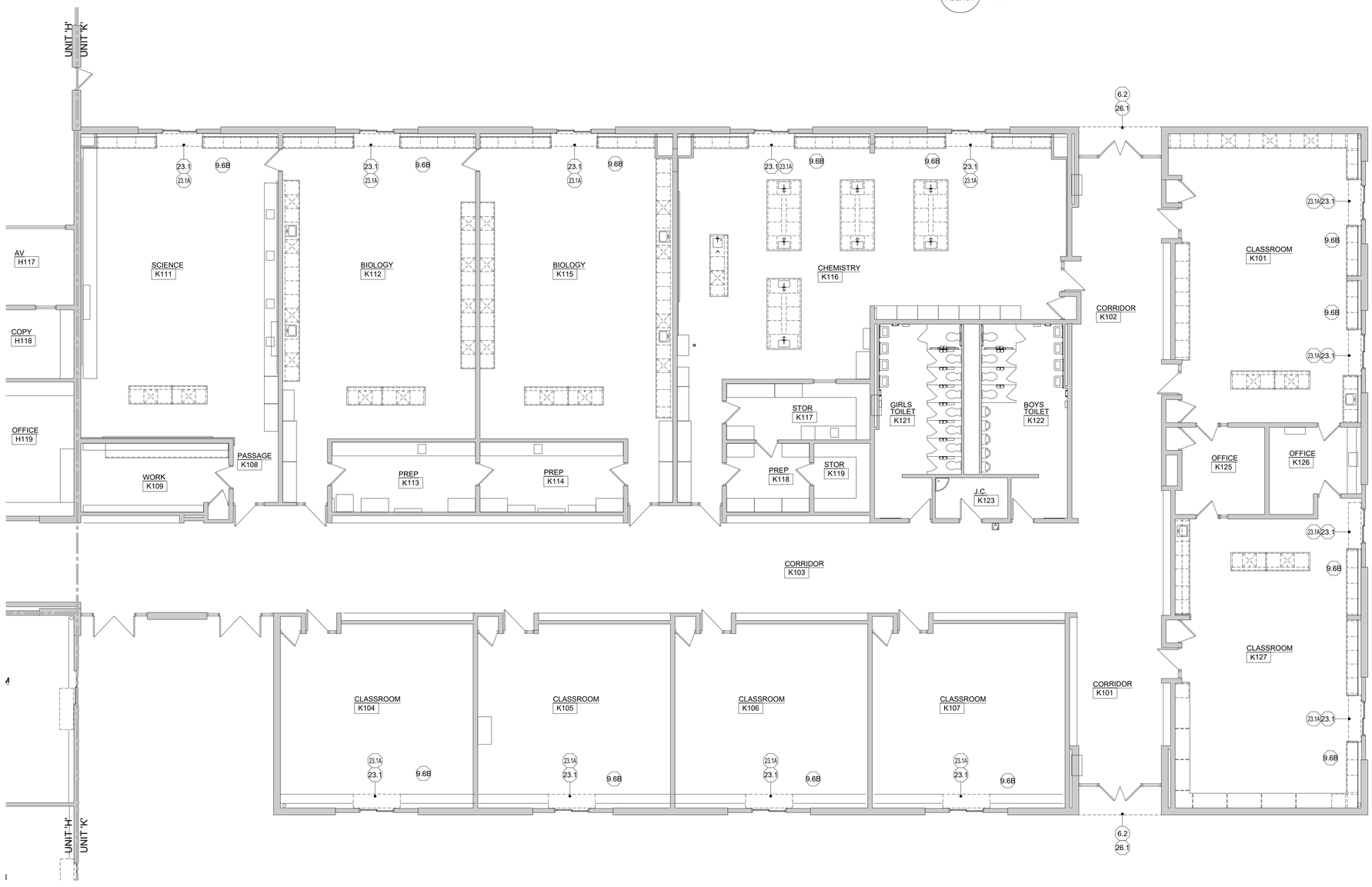
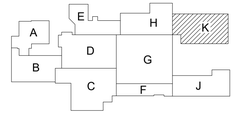


UNIT K
DEMOLITION FIRST FLOOR PLAN

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

KEY PLAN



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PROJECT

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Remodel

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Michigan

SHEET

UNIT K
DEMOLITION FIRST
FLOOR PLAN

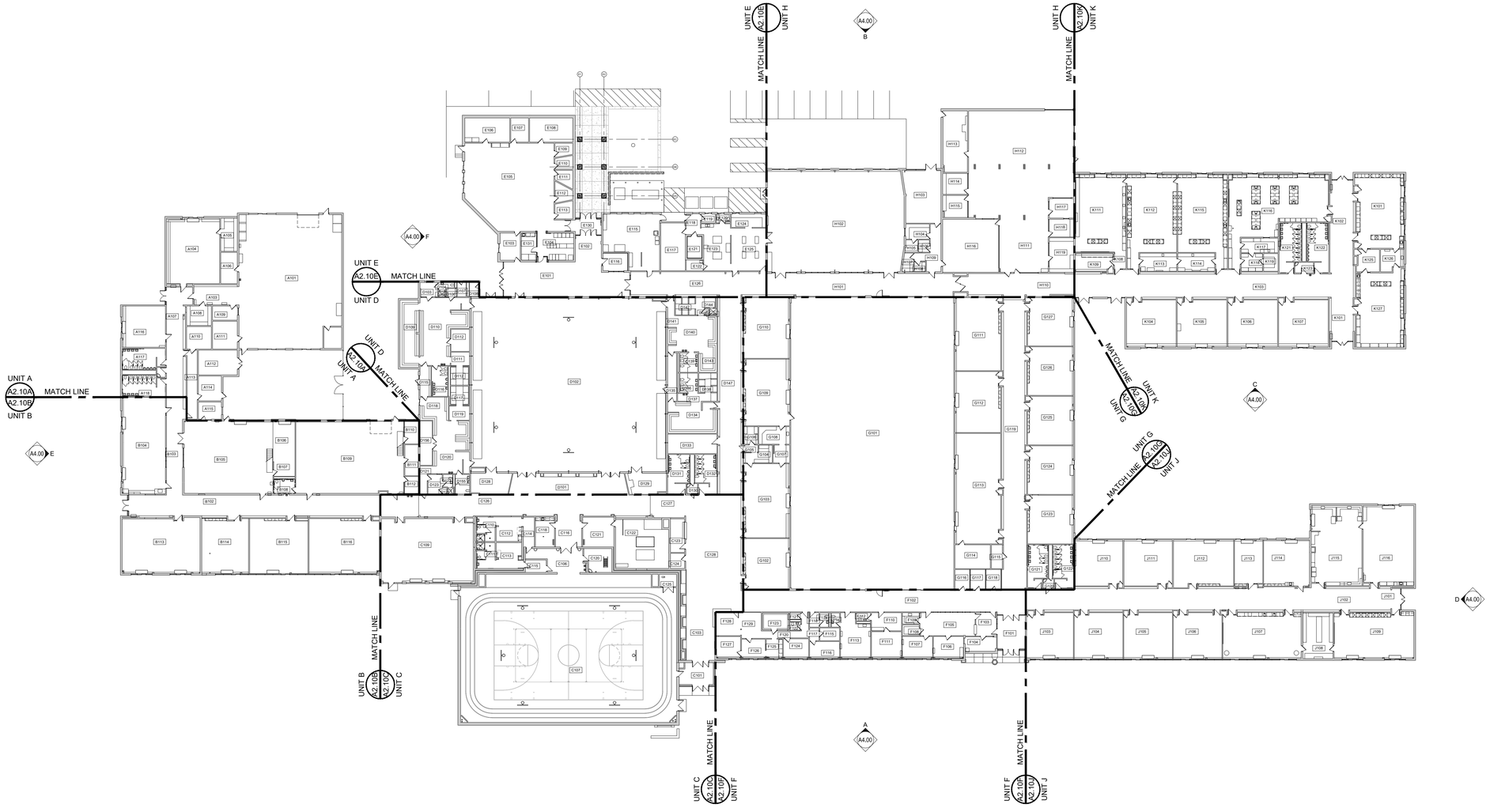
PROJECT NUMBER

2024-053

SHEET NUMBER

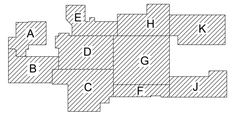
AD2.10K

2024-053 CHESANING HIGH SCHOOL



COMPOSITE
FIRST FLOOR PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN



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PROJECT
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Remodel

Chesaning,
Michigan

SHEET
COMPOSITE
FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10

2024-053 CHESANING HIGH SCHOOL

UNIT A
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND (EXTERIOR WALLS)

EXTERIOR KNEE WALLS TO BE 4" NOMINAL MASONRY VENEER ON CMU BACK-UP. REFER TO SECTIONS FOR MORE INFORMATION.

FLOOR PLAN LEGEND (INTERIOR WALLS)

REFER TO SHEET A0.03 FOR PARTITION LEGEND

ALL INTERIOR WALLS TO DECK .

5/8" GYPSUM BOARD EACH SIDE OF METAL STUDS- PROVIDE IMPACT RESISTANT GYP. BD. TO 8'-0" TYP.

M8 TYPICAL C.M.U. PARTITION, UNLESS TAGGED OTHERWISE

S4 TYPICAL INSULATED STUD WALL PARTITION, UNLESS TAGGED OTHERWISE

FLOOR PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK..

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK.

C. UNLESS OTHERWISE INDICATED, ALL WALLS OF MAIN CORRIDORS ARE SMOKE PARTITIONS. REFER TO CODE PLAN FOR REMAINING INFORMATION.

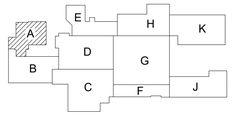
D. UNLESS OTHERWISE INDICATED, ALL INTERIOR MASONRY WALLS ARE 8" CMU.

FLOOR PLAN KEY NOTES (X)

1. HORIZONTAL UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
2. BURNISHED VENEER/CMU EXTERIOR KNEE WALL. REFER TO SECTIONS FOR MORE INFORMATION.
3. BURNISHED VENEER/CMU EXTERIOR SCREEN WALL. REFER TO SECTIONS FOR MORE INFORMATION.
4. SPLIT FACE VENEER/CMU CANOPY COLUMN BUILD-OUTS. REFER TO SECTIONS FOR MORE INFORMATION.
5. CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION.
6. ENTRY MASS SLAB CONSTRUCTION. REFER TO SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
7. PARKING LOT STRIPING AND PAVING. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION.
8. FIN TUBE RADIANT HEAT. PATCH/REPAIR EXISTING WALL/FLOORING AS REQUIRED FROM ANY DEMOLITION. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
9. DECORATIVE FORMED METAL VERTICAL PIPE ENCLOSURE AND MOUNTING HARDWARE FOR HUV. ENCLOSURE TO MATCH ADJACENT WALL FINISH. COORDINATE WITH MECHANICAL DRAWINGS FOR PIPING SIZE, LOCATIONS AND EXISTING CONDITIONS. REFER TO DETAIL M ON SHEET A6.00.
10. DECORATIVE FORMED METAL HORIZONTAL PIPE ENCLOSURE(S) AND MOUNTING HARDWARE ADJACENT TO HUV (V.I.F.). ENCLOSURE TO MATCH ADJACENT WALL FINISH. MATCH EXISTING PIPE ENCLOSURE SIZE. COORDINATE WITH MECHANICAL DRAWINGS FOR PIPING SIZE AND LOCATIONS. REFER TO DETAIL M ON SHEET A6.00.
11. INSTALL DOORS/SIDELITES/FRAME AT EXISTING DOOR/SIDELITE/FRAME LOCATION, COORDINATE WITH EXISTING CONSTRUCTION CONDITIONS.
12. IN-FILL EXISTING WALL AT LOCATION OF REMOVED VUV. APPLY RIGID INSULATION ON INTERIOR SIDE OF EXTERIOR GRILLE, IN-FILL EXISTING INTERIOR SIDE OF EXTERIOR WALL WITH MATCHING CONSTRUCTION, PAINT TO MATCH.
13. APPLY LIGHT WEIGHT CONCRETE IN-FILL AT RECESSED SLAB TO CREATE A FLUSH FLOOR CONDITION FOR NEW FLOORING FINISH.

A
A2.10A
TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

KEY PLAN



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DRAWN	RJC
CHECKED	RL
APPROVED	DWJ

FRENCH
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Auburn Hills | MI 48326
248.656.1377

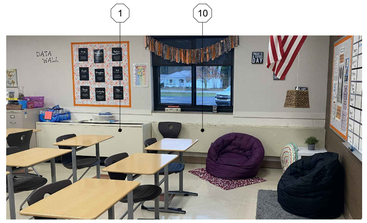
PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT A
FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10A



A
A2.10B

TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK..

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK.

C. UNLESS OTHERWISE INDICATED, ALL WALLS OF MAIN CORRIDORS ARE SMOKE PARTITIONS. REFER TO CODE PLAN FOR REMAINING INFORMATION.

D. UNLESS OTHERWISE INDICATED, ALL INTERIOR MASONRY WALLS ARE 8" CMU.

FLOOR PLAN KEY NOTES (X)

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3. BURNISHED VENEER/CMU EXTERIOR SCREEN WALL. REFER TO SECTIONS FOR MORE INFORMATION.
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5. CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION.
6. ENTRY MASS SLAB CONSTRUCTION. REFER TO SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
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8. FIN TUBE RADIANT HEAT. PATCH/REPAIR EXISTING WALL/FLOORING AS REQUIRED FROM ANY DEMOLITION. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
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FLOOR PLAN LEGEND (EXTERIOR WALLS)

EXTERIOR KNEE WALLS TO BE 4" NOMINAL MASONRY VENEER ON CMU BACK-UP. REFER TO SECTIONS FOR MORE INFORMATION.

FLOOR PLAN LEGEND (INTERIOR WALLS)

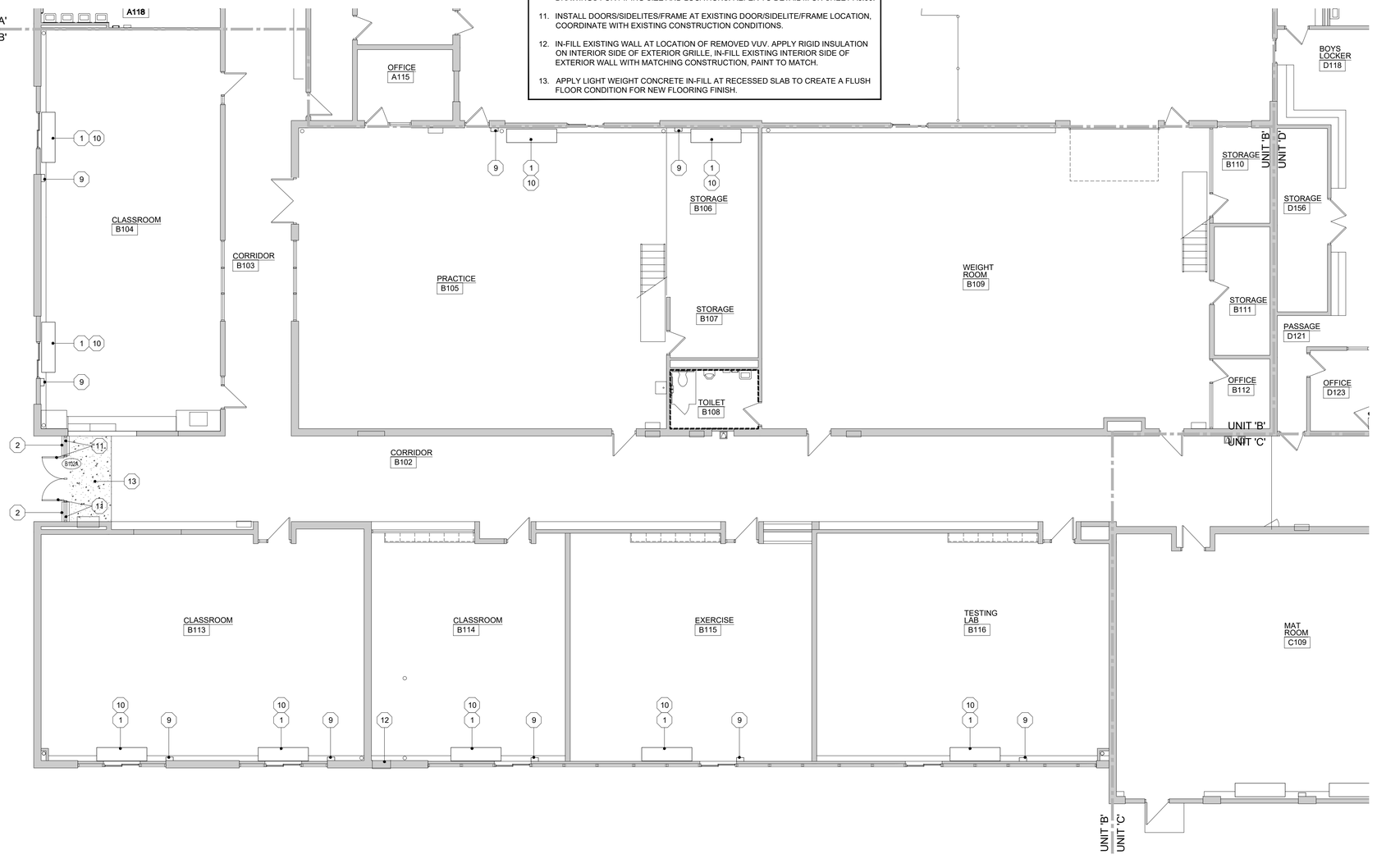
REFER TO SHEET A0.03 FOR PARTITION LEGEND

ALL INTERIOR WALLS TO DECK .

5/8" GYPSUM BOARD EACH SIDE OF METAL STUDS- PROVIDE IMPACT RESISTANT GYP. BD. TO 8'-0" TYP.

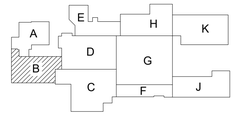
M8 TYPICAL C.M.U. PARTITION, UNLESS TAGGED OTHERWISE

S4 TYPICAL INSULATED STUD WALL PARTITION, UNLESS TAGGED OTHERWISE



UNIT B
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

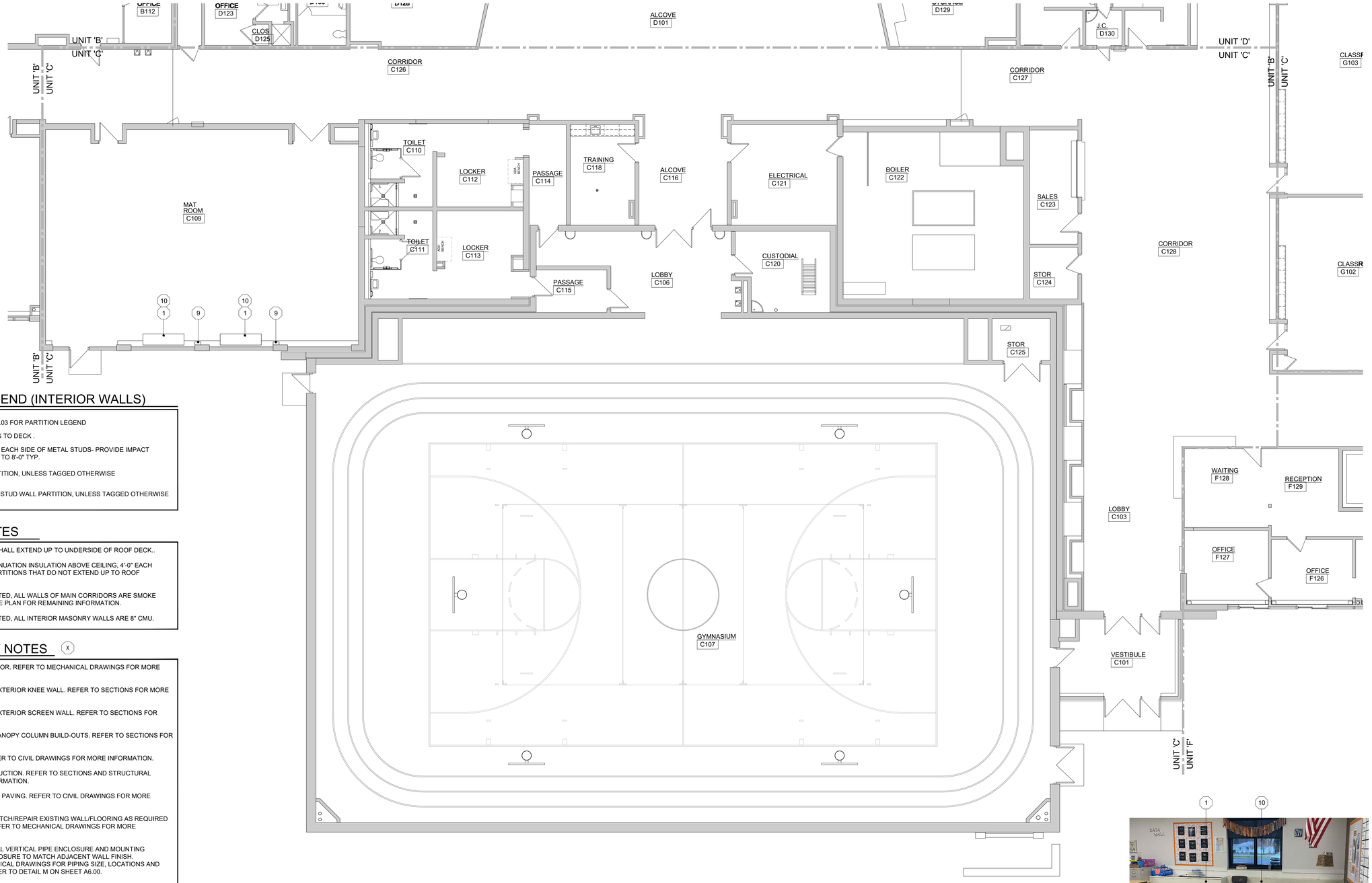
Chesaning,
Michigan

SHEET
UNIT B
FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10B

2024-053 CHESANING HIGH SCHOOL



FLOOR PLAN LEGEND (INTERIOR WALLS)

REFER TO SHEET A0.03 FOR PARTITION LEGEND

ALL INTERIOR WALLS TO DECK .

5/8" GYPSUM BOARD EACH SIDE OF METAL STUDS- PROVIDE IMPACT RESISTANT GYP. BD. TO 8'-0" TYP.

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FLOOR PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK..

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK.

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D. UNLESS OTHERWISE INDICATED, ALL INTERIOR MASONRY WALLS ARE 8" CMU.

FLOOR PLAN KEY NOTES (X)

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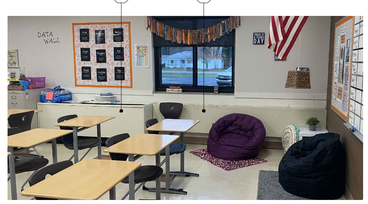
13. APPLY LIGHT WEIGHT CONCRETE IN-FILL AT RECESSED SLAB TO CREATE A FLUSH FLOOR CONDITION FOR NEW FLOORING FINISH.

FLOOR PLAN LEGEND (EXTERIOR WALLS)

EXTERIOR KNEE WALLS TO BE 4" NOMINAL MASONRY VENEER ON CMU BACK-UP. REFER TO SECTIONS FOR MORE INFORMATION.

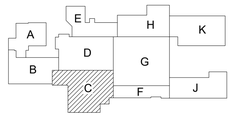
UNIT C
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



A
A2.10C

TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

KEY PLAN



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Auburn Hills | MI 48326
248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

UNIT C
FIRST FLOOR PLAN

PROJECT NUMBER

2024-053

SHEET NUMBER

A2.10C

2024-053 CHESANING HIGH SCHOOL

FLOOR PLAN KEY NOTES (X)

1. HORIZONTAL UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
2. BURNISHED VENEER/CMU EXTERIOR KNEE WALL. REFER TO SECTIONS FOR MORE INFORMATION.
3. BURNISHED VENEER/CMU EXTERIOR SCREEN WALL. REFER TO SECTIONS FOR MORE INFORMATION.
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FLOOR PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK..

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK.

C. UNLESS OTHERWISE INDICATED, ALL WALLS OF MAIN CORRIDORS ARE SMOKE PARTITIONS. REFER TO CODE PLAN FOR REMAINING INFORMATION.

D. UNLESS OTHERWISE INDICATED, ALL INTERIOR MASONRY WALLS ARE 8" CMU.

FLOOR PLAN LEGEND (EXTERIOR WALLS)

EXTERIOR KNEE WALLS TO BE 4" NOMINAL MASONRY VENEER ON CMU BACK-UP. REFER TO SECTIONS FOR MORE INFORMATION.

FLOOR PLAN LEGEND (INTERIOR WALLS)

REFER TO SHEET A0.03 FOR PARTITION LEGEND

ALL INTERIOR WALLS TO DECK .

5/8" GYPSUM BOARD EACH SIDE OF METAL STUDS- PROVIDE IMPACT RESISTANT GYP. BD. TO 8'-0" TYP.

M8 — TYPICAL C.M.U. PARTITION, UNLESS TAGGED OTHERWISE

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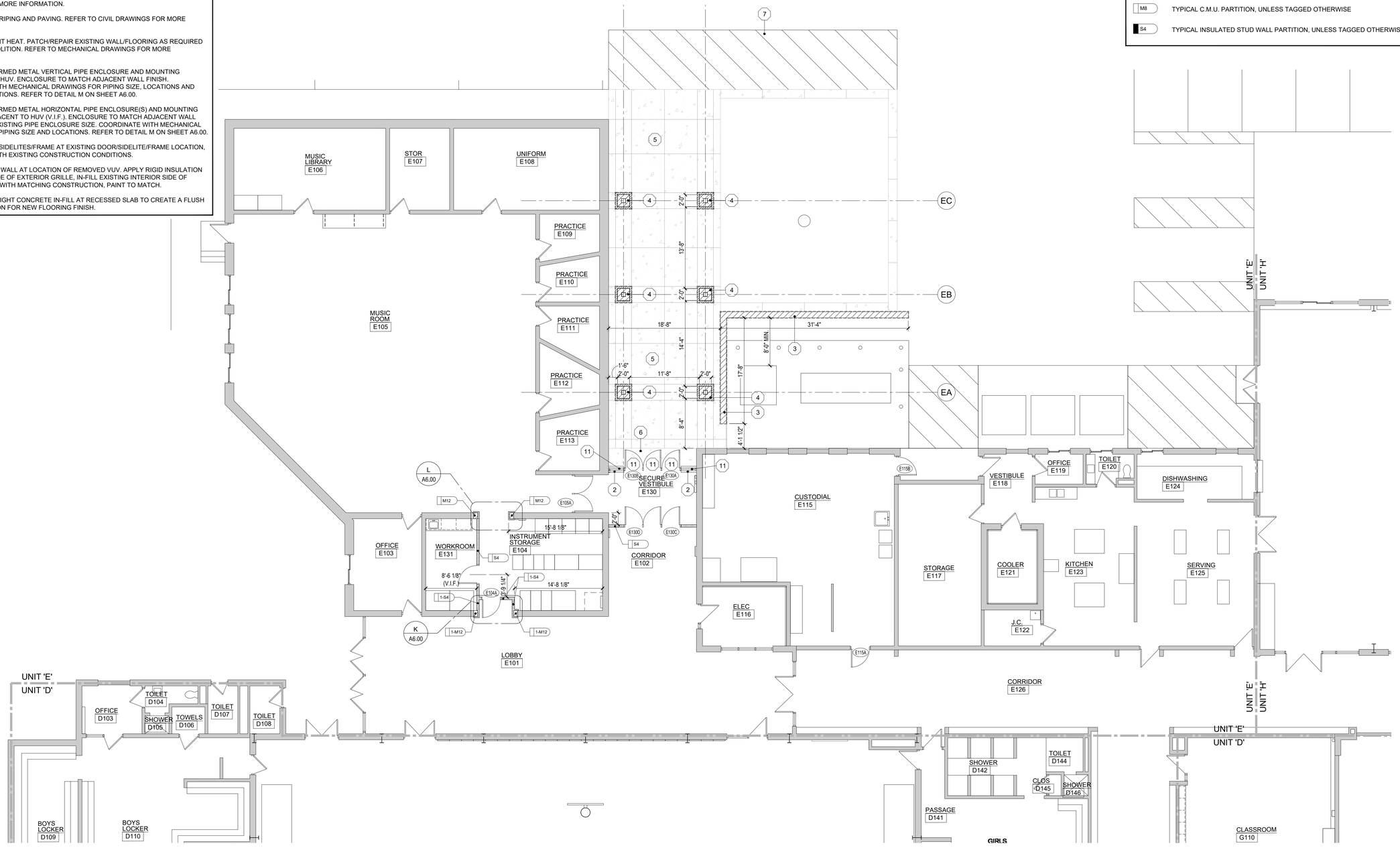
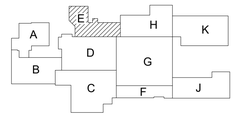


UNIT E
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT E
FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10E

209-053 CHESANING HIGH SCHOOL

FLOOR PLAN KEY NOTES (X)

1. HORIZONTAL UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
2. BURNISHED VENEER/CMU EXTERIOR KNEE WALL. REFER TO SECTIONS FOR MORE INFORMATION.
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REFER TO SHEET A0.03 FOR PARTITION LEGEND

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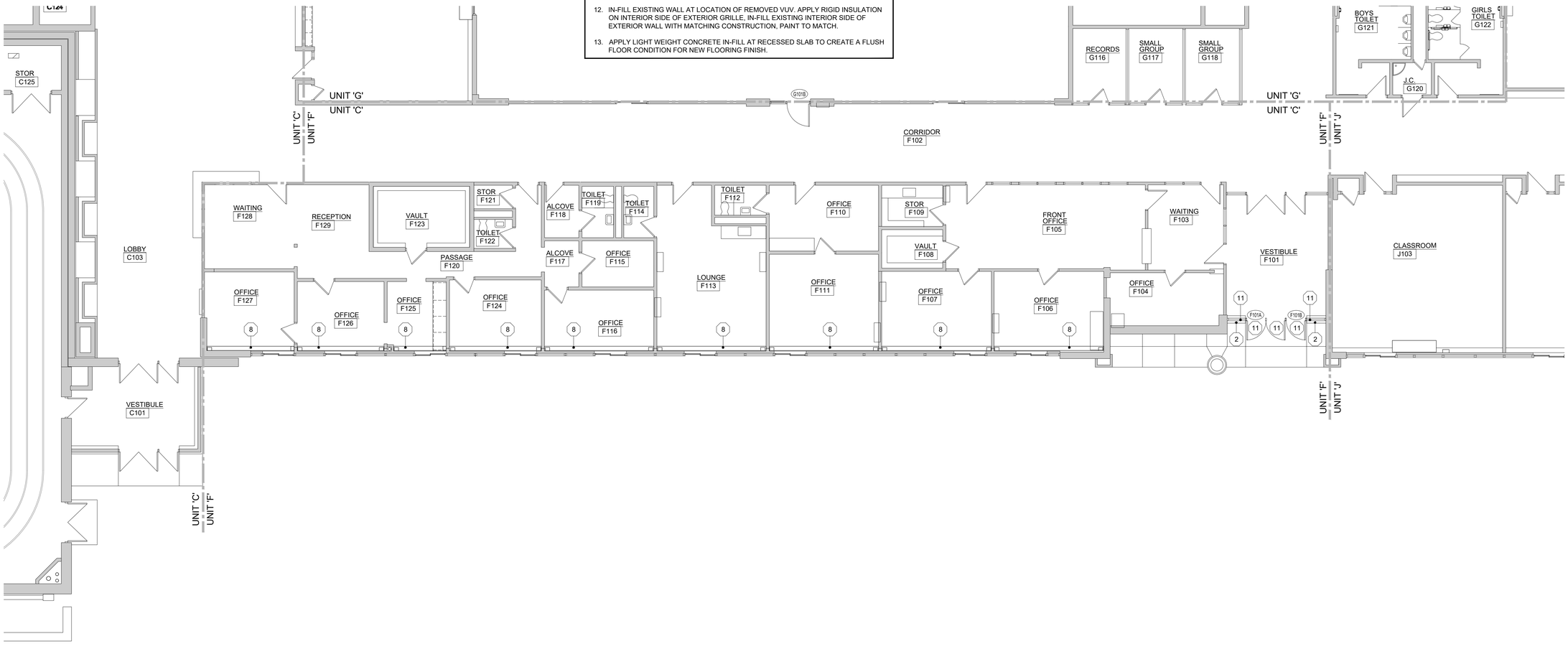
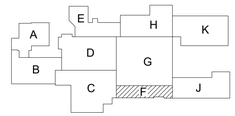


UNIT F
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

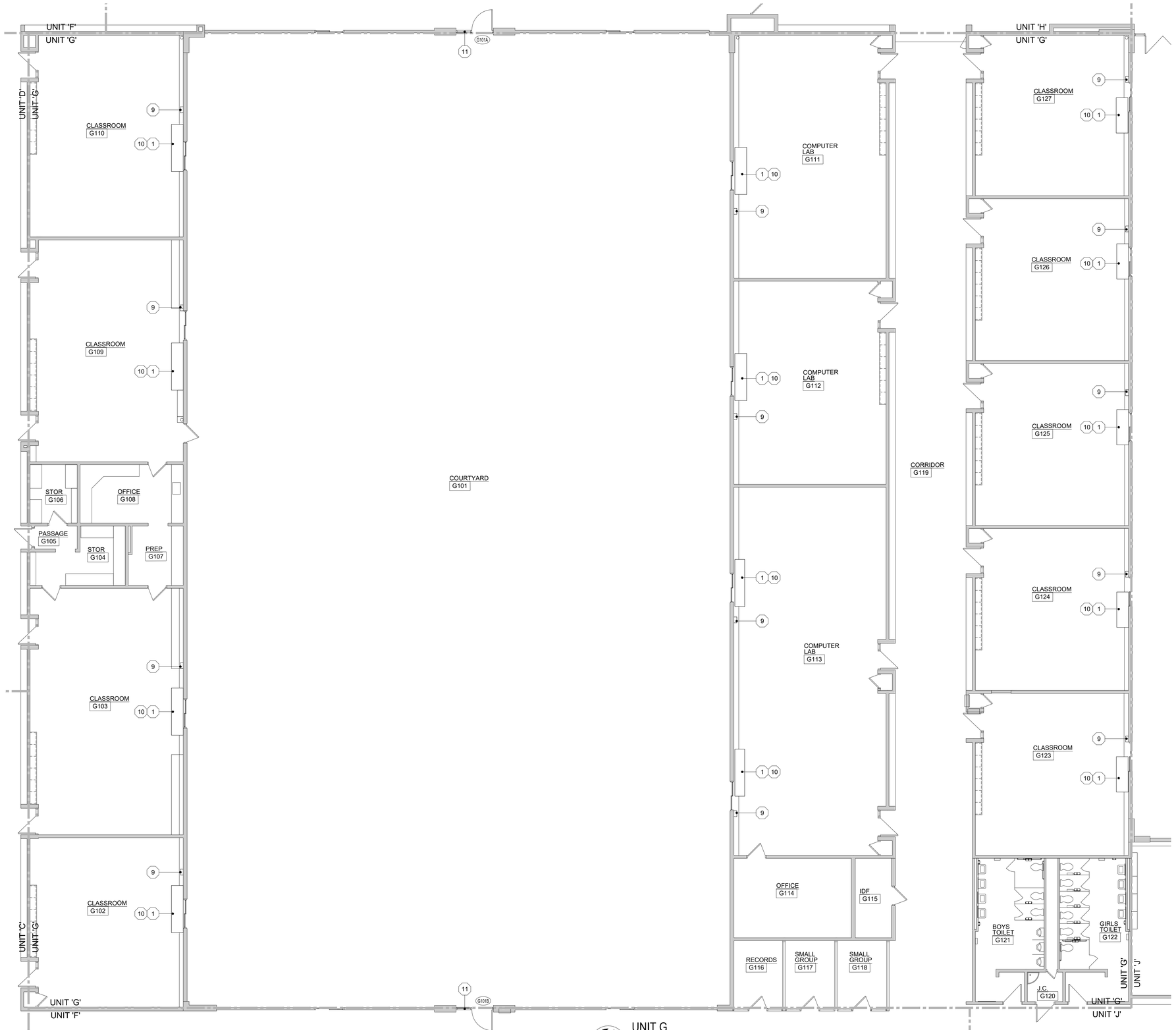
Chesaning,
Michigan

SHEET
UNIT F
FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10F

2024-053 CHESANING HIGH SCHOOL



UNIT G
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND (EXTERIOR WALLS)

EXTERIOR KNEE WALLS TO BE 4" NOMINAL MASONRY VENEER ON CMU BACK-UP. REFER TO SECTIONS FOR MORE INFORMATION.

FLOOR PLAN LEGEND (INTERIOR WALLS)

REFER TO SHEET A0.03 FOR PARTITION LEGEND

ALL INTERIOR WALLS TO DECK .

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FLOOR PLAN KEY NOTES (X)

1. HORIZONTAL UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
2. BURNISHED VENEER/CMU EXTERIOR KNEE WALL. REFER TO SECTIONS FOR MORE INFORMATION.
3. BURNISHED VENEER/CMU EXTERIOR SCREEN WALL. REFER TO SECTIONS FOR MORE INFORMATION.
4. SPLIT FACE VENEER/CMU CANOPY COLUMN BUILD-OUTS. REFER TO SECTIONS FOR MORE INFORMATION.
5. CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION.
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7. PARKING LOT STRIPING AND PAVING. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION.
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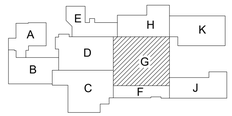
11. INSTALL DOORS/SIDELITES/FRAME AT EXISTING DOOR/SIDELITE/FRAME LOCATION, COORDINATE WITH EXISTING CONSTRUCTION CONDITIONS.
12. IN-FILL EXISTING WALL AT LOCATION OF REMOVED VUV. APPLY RIGID INSULATION ON INTERIOR SIDE OF EXTERIOR GRILLE, IN-FILL EXISTING INTERIOR SIDE OF EXTERIOR WALL WITH MATCHING CONSTRUCTION, PAINT TO MATCH.
13. APPLY LIGHT WEIGHT CONCRETE IN-FILL AT RECESSED SLAB TO CREATE A FLUSH FLOOR CONDITION FOR NEW FLOORING FINISH.

A A2.10G TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

KEY PLAN



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CHECKED	RL
APPROVED	DWJ

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT G
FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10G

2024-053 CHESANING HIGH SCHOOL

A
A2.10J

TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

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FLOOR PLAN LEGEND (EXTERIOR WALLS)

EXTERIOR KNEE WALLS TO BE 4" NOMINAL MASONRY VENEER ON CMU BACK-UP. REFER TO SECTIONS FOR MORE INFORMATION.

FLOOR PLAN LEGEND (INTERIOR WALLS)

REFER TO SHEET A0.03 FOR PARTITION LEGEND

ALL INTERIOR WALLS TO DECK .

5/8" GYPSUM BOARD EACH SIDE OF METAL STUDS- PROVIDE IMPACT RESISTANT GYP. BD. TO 8'-0" TYP.

M8 — TYPICAL C.M.U. PARTITION, UNLESS TAGGED OTHERWISE

S4 — TYPICAL INSULATED STUD WALL PARTITION, UNLESS TAGGED OTHERWISE

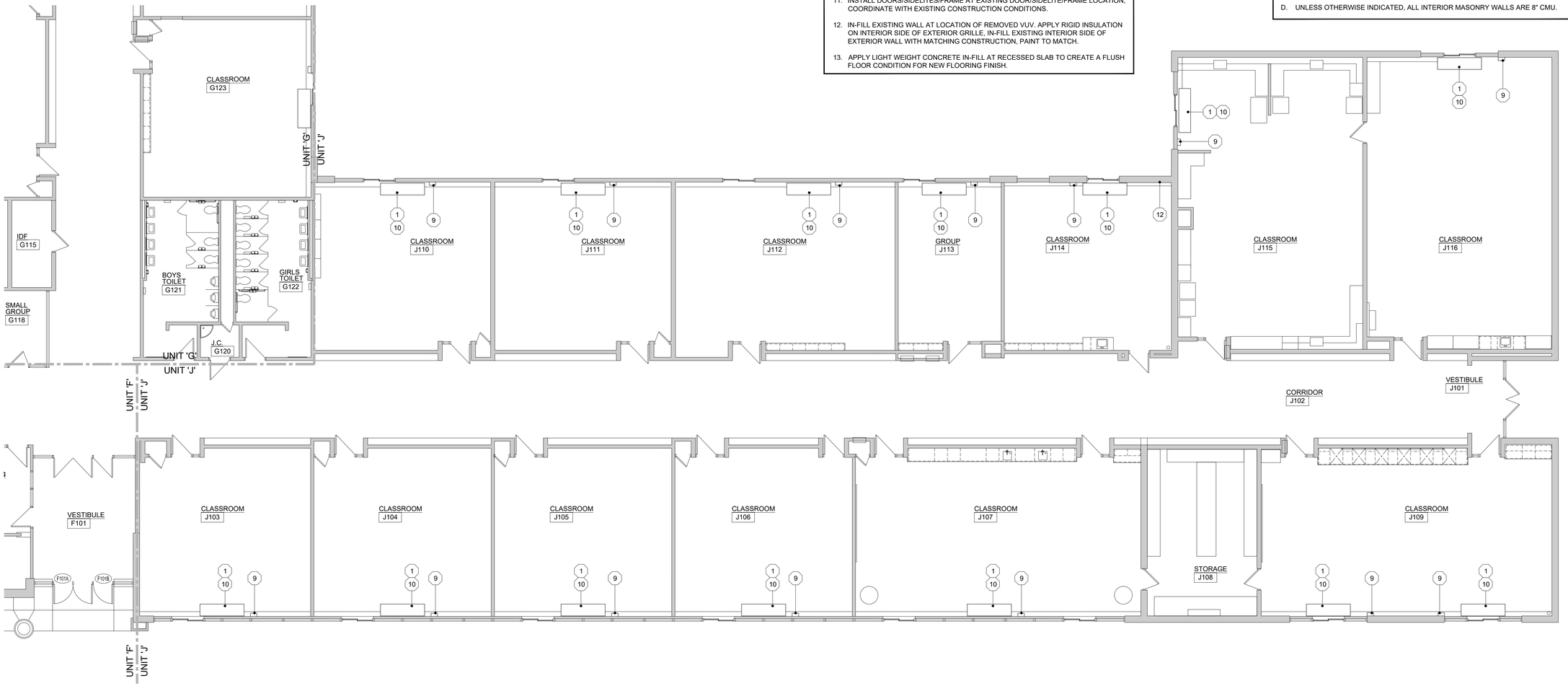
FLOOR PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK..

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK.

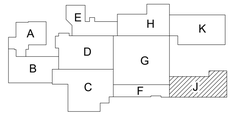
C. UNLESS OTHERWISE INDICATED, ALL WALLS OF MAIN CORRIDORS ARE SMOKE PARTITIONS. REFER TO CODE PLAN FOR REMAINING INFORMATION.

D. UNLESS OTHERWISE INDICATED, ALL INTERIOR MASONRY WALLS ARE 8" CMU.



UNIT J
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT J
FIRST FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10J

2024-053 CHESANING HIGH SCHOOL

A
A2.10K
TYP. HUV AND PIPE ENCLOSURE REFERENCE IMAGE
SCALE: 1/8" = 1'-0"

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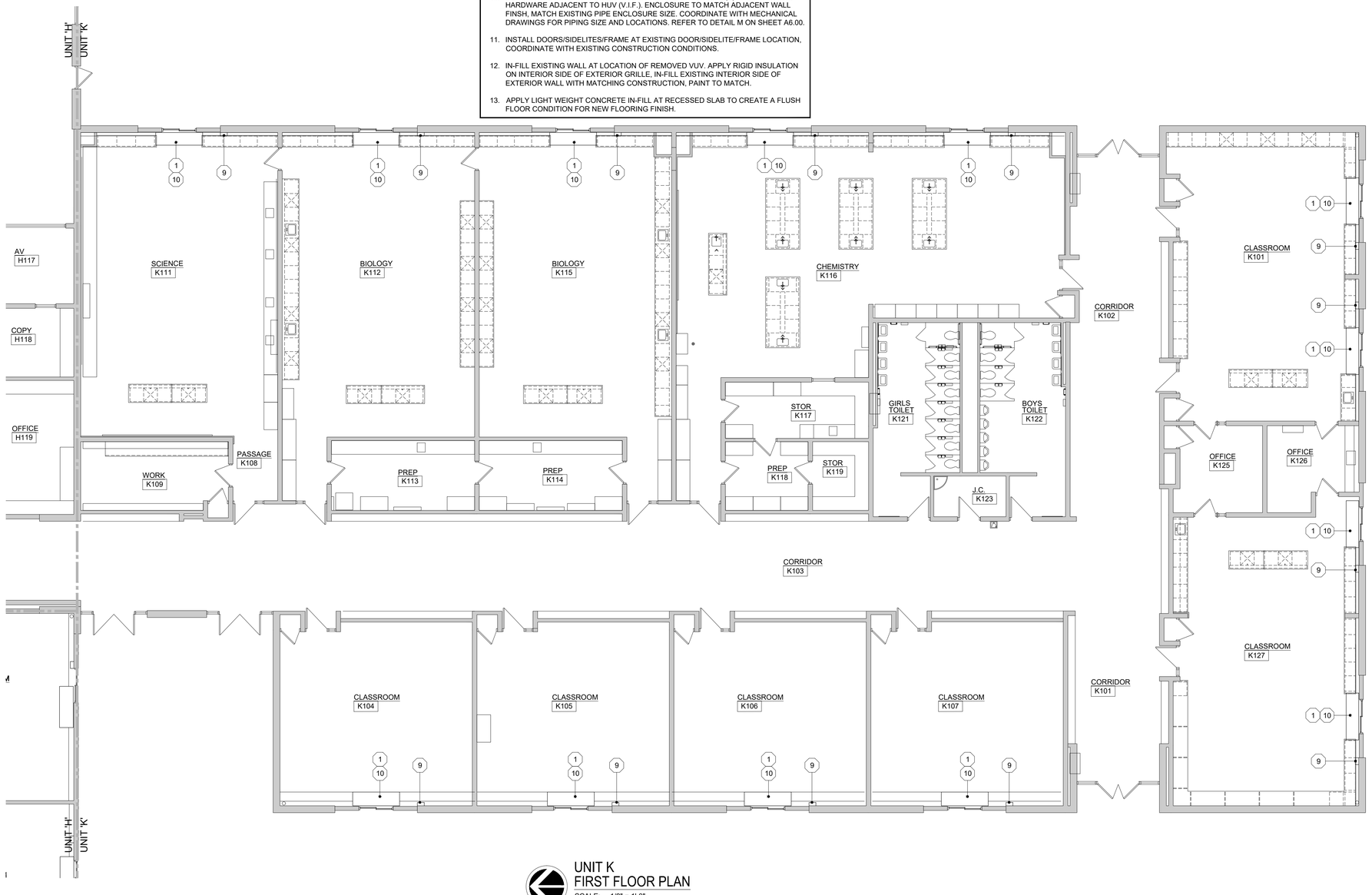
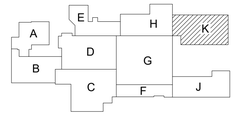


UNIT K
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
Unit K
Floor Plan

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.10K

2024-053 CHESANING HIGH SCHOOL

TYPICAL ROOF NOTES

A. VERIFY ROOF OPENING/EQUIPMENT SIZES AT LOCATIONS WITH MECHANICAL. MAINTAIN PROPER FLASHINGS AND DRAINAGE AROUND CURBS AT OPENINGS AS REQUIRED.

B. ROOF DETAILS ARE SHOWN ON SHEET A5.1 FOR REFERENCE ONLY. ROOFING CONTRACTOR TO PROVIDE APPROPRIATE DETAIL/ASSEMBLY AS PER MANUFACTURE'S REQUIREMENTS FOR APPROVED ROOFING INSTALLATION WARRANTY.

C. STANDING SEAM METAL ROOF SYSTEMS SHALL CONSIST OF PRE-FIN. MET. STANDING SEAM ROOF PANELS ON ICE/WATER SHIELD MEMBRANE OVER EXTERIOR GRADE NON-COM. PLYWOOD SHEATHING OVER METAL DECK OVER GALV. STEEL TUBES.

D. PATCH AND REPAIR EXISTING ROOFING AS REQUIRED TO MATCH EXISTING FOR NEW MECHANICAL EQUIPMENT.

E. REFER TO MECHANICAL AND ELECTRICAL ROOF PLAN DRAWINGS FOR DEMO AND NEW WORK.

ROOF PLAN KEY NOTES (X)

1. STANDING SEAM METAL ENTRY CANOPY ROOF. REFER TO ELEVATIONS, SECTIONS AND STRUCTURAL FOR MORE INFORMATION.
2. MECHANICAL EQUIPMENT AND CURBS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
3. SNOW AND ICE GUARDS RAIL STYLE ATTACHED TO METAL CANOPY ROOF.
4. PRE-FINISHED METAL GUTTER AND DOWNSPOUT.

KEY

——›	INDICATES DIRECTION OF SLOPE TO DRAIN
A.C.C.U.	AIR COOLED CONDENSING UNIT PER MECH.
B.F.	BOILER FLUE PER MECHANICAL
D.S.	DOWNSPOUT
D.V.	DISCHARGE VENT PER MECHANICAL
E.R.U.	ENERGY RECOVERY UNIT PER MECHANICAL.
E.F.	EXHAUST FAN PER MECHANICAL
(E)	EXISTING EQUIPMENT TO REMAIN (VERIFY)
G.R.H.	GRAVITY RELEIF HOOD PER MECHANICAL
I.H.	INTAKE HOOD PER MECHANICAL.
K.E.	KILN EXHAUST PER MECHANICAL.
O.S.	OVERFLOW SUMP
R.S.	ROOF SUMP
R.S.H.	ROOF SCUTTLE HATCH
R.V.	RELIEF VENT PER MECHANICAL
S.R.R.	SNOW RETENTION RAIL
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
T.O.T.	TOP OF TRUSS
W.F.	WATER HEATER FLUE PER MECHANICAL.
V.T.R.	VENT THRU ROOF PER MECHANICAL.

SINGLE PLY EPDM ROOFING SYSTEM BASE BID THICKNESS: 60 MILS ALTERNATE A5 THICKNESS: 90 MILS

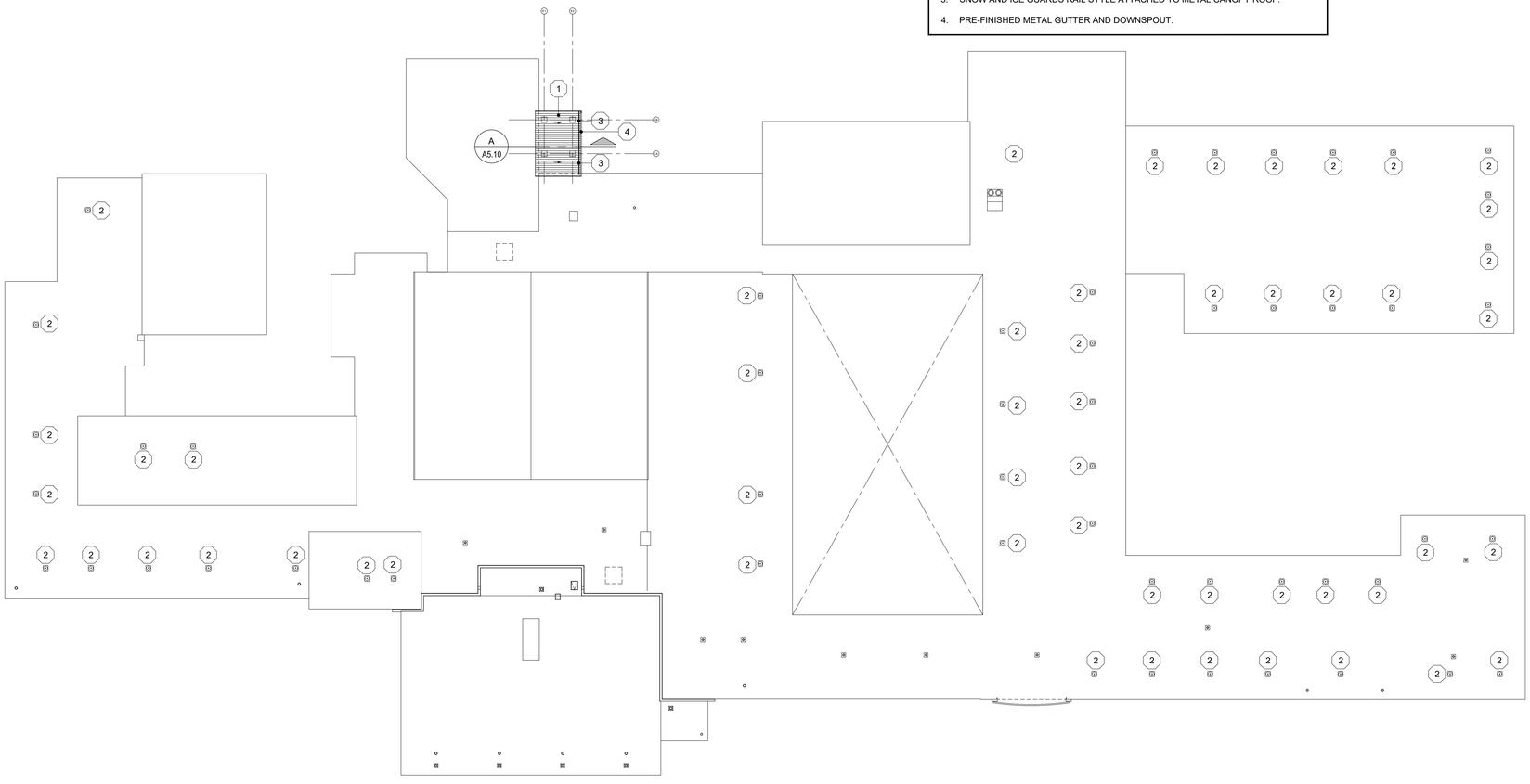
TAPERED ROOF INSULATION SADDLES.

ASPHALT SHINGLE SYSTEM

STANDING SEAM METAL ROOF.

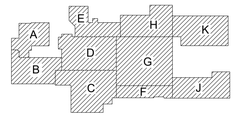
ICE AND WATER SHIELD BELOW STANDING SEAM METAL ROOF AND ASPHALT SHINGLE SYSTEMS.

FULLY ADHERED WALKWAY/SPLASH PAD



COMPOSITE ROOF PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
COMPOSITE
ROOF PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A2.20

2024-053 CHESANING HIGH SCHOOL

DOOR SCHEDULE - FIRST FLOOR

UNIT	DOOR NO.	DOOR SIZE	DOOR			FRAME					H.W. NO.	MIN./ LABEL	LINTEL MAT.	REMARKS
			TYPE	MAT.	FIN.	TYPE	MAT.	FIN.	JAMB *	HEAD *				
A	A116A	PR 3'-0" x 7'-2"	F	HM	PTD	EX	EX	PTD	EX	EX	01	90	EX	1,2,3,5
	A119A	PR 3'-0" x 7'-2"	F	HM	PTD	EX	EX	PTD	EX	EX	01	90	EX	1,2,3,5
	A127A	PR 3'-0" x 7'-2"	F	HM	PTD	1	HM	PTD	-	-	02	60	-	3,4,5

DOOR SCHEDULE ABBREVIATIONS

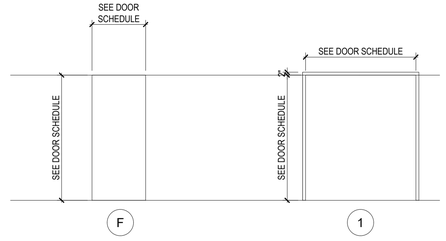
AL	ALUMINUM	PC	PRECAST CONCRETE
ANOD	ANODIZED	PLAM	PLASTIC LAMINATE
APC	ARCHITECTURAL PRECAST LINTEL	PREF	PREFINISHED
CWF	CURTAINWALL FRAMING	PTD	PAINTED
EXIST	EXISTING	SIM	SIMILAR
FRP	FIBERGLASS REINFORCED POLYESTER	SS	STAINLESS STEEL
GL	GLASS	STL	STEEL
HM	HOLLOW METAL	SFF	STOREFRONT FRAMING
LGF	LIGHT GAUGE FRAMING	TS	TUBE STEEL
ML	MASONRY LINTEL	WD	WOOD
MSF	METAL STUD FRAMING	WDSC	WOOD - SOUND CONTROL

DOOR SCHEDULE GENERAL NOTES

1. FRAME DETAILS ARE NOTED ON SHEET A3.01A UNLESS NOTED OTHERWISE.
2. DOOR UNDERCUTS FOR MECHANICAL REQUIREMENTS ARE LIMITED TO 5/8" MAX. CLEAR DISTANCE MEASURED FROM THE TOP OF THE FINISHED FLOOR MATERIAL OR THRESHOLD TO THE BOTTOM EDGE OF THE DOOR. STANDARD TOLERANCES OF UNDERCUTTING OF DOORS FOR THRESHOLDS AND OTHER FLOOR COVERING MATERIALS ARE NOT NOTED AND MUST BE CONSIDERED IN DETERMINING THE ACTUAL OVERALL HEIGHT OF THE DOOR. COORDINATE WITH AFFECTED TRADES.
3. FIRE RATED DOORS AND FRAMES ARE LISTED IN MINUTES.
4. ALL FIRE RATED HOLLOW METAL DOOR FRAMES SHALL BE CEMENT GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE CAVITY LOCATIONS FOR SCHEDULED HARDWARE.
5. ALL WOOD DOORS SHALL BE SOLID CORE.

DOOR SCHEDULE REMARKS

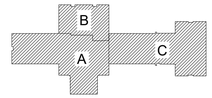
1. NEW DOOR AND HARDWARE IN EXISTING FRAME. PAINT EXISTING FRAME. FIELD VERIFY EXISTING DOOR DIMENSIONS.
2. DOORS ON MAGNETIC HOLD OPENS.
3. DOOR HARDWARE SET TO BE PROVIDED AT A LATER DATE.
4. COORDINATE NEW OPENING WITH DOOR AND DOOR FRAME.
5. CONFIRM EXISTING DOOR RATING, MATCH FOR NEW DOOR.



DOOR TYPES

FRAME TYPES

KEY PLAN



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PROJECT

Chesaning Union Schools
Big Rock Elementary
Remodel

Chesaning,
Michigan

SHEET

DOOR SCHEDULE

PROJECT NUMBER

2024-052

SHEET NUMBER

A3.01

2024-052 CHESANING BIG ROCK ELEMENTARY

ROOM FINISH SCHEDULE UNIT J

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
J103	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
J104	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
J105	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
J106	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
J107	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
J109	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
J110	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
J111	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
J112	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
J113	GROUP	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
J114	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
J115	CLASSROOM	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
J116	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4

ROOM FINISH SCHEDULE UNIT K

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
K104	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
K105	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
K106	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
K107	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
K111	SCIENCE	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
K112	BIOLOGY	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
K115	BIOLOGY	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
K116	CHEMISTRY	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4

ROOM FINISH SCHEDULE ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	GL	GLASS	RB	RUBBER BASE	WD	WOOD
ANOD	ANODIZED	GCMU	GLAZED CMU	RES	(E)EPOXY RESIN	WP	WATERPROOF
B CMU	BURNISHED CMU	GYP	GYPSUM BOARD	SAAC	SPRAY-APPLIED ACOUSTICAL COATING		
BRICK	BRICK	LMC	LINEAR METAL CEILING	SEAL	CONCRETE SEALER		
CMU	CONCRETE MASONRY UNIT	MP	METAL PANEL	SS	SOLID SURFACE MATERIAL		
CONC	CONCRETE	NSF	NON-SLIP FINISH	SSM	STAINLESS STEEL		
CPL	CEMENT PLASTER	PLAM	PLASTIC LAMINATE	SP CMU	SPLIT FACE CMU		
CPT	CARPET	PLAS	VENEER PLASTER	SPI	SPORTS IMPACT		
CT	CERAMIC TILE	PT	PORCELAIN TILE	SV	SHEET VINYL		
EXIST/ EX	EXISTING	PTD	PAINTED	TERR	TERRAZZO		
EXP	EXPOSED	QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE		
FP	FOLDING PARTITION	RBF	RUBBER FLOORING	VW	VINYL WALLCOVERING		

ROOM FINISH SCHEDULE GENERAL NOTES

A. SEE THE A6 SERIES SHEETS FOR PAINT DESIGNATIONS.

B. SEE THE A7 SERIES SHEETS FOR CEILING PAINT DESIGNATIONS.

C. SEE THE A8 SERIES SHEETS FOR FLOOR PATTERNS.

ROOM FINISH SCHEDULE REMARKS

1. PAINT ENTIRE WALL AFTER NEW HUV, SHROUD AND PIPE ENCLOSURE IS INSTALLED. MATCH EXISTING WALL FINISH.
2. PAINT ENTIRE EXTERIOR WALL AFTER NEW FIN TUBE IS INSTALLED. MATCH EXISTING WALL FINISH.
3. PATCH/REPAIR FLOOR FINISH WITH MATCHING FLOORING AS NEEDED AFTER NEW HUV IS INSTALLED.
4. REPAIR BASE AS NEEDED AFTER NEW HUV IS INSTALLED.

ROOM FINISH SCHEDULE UNIT A

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
A104	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
A116	CLASSROOM	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4

ROOM FINISH SCHEDULE UNIT B

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
B102	CORRIDOR	EX/CPT	C1	RB	B1	EX	EX	EX	EX	-	-	EX	EX	EX/PREF	EX	EX	EX	-	-	-
B104	CLASSROOM	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
B105	PRACTICE	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
B106	STORAGE	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
B113	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
B114	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
B115	EXERCISE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4
B116	TESTING LAB	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4

ROOM FINISH SCHEDULE UNIT C

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
C101	VESTIBULE	CPT1	C1	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	-	-
C103	LOBBY	EX/CPT1	C1	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	-	-
C109	MAT ROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	1,3,4

ROOM FINISH SCHEDULE UNIT E

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
E101	LOBBY	CPT	C1	RB	B1	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	-	-	-
E102	CORRIDOR	CPT	C1	RB	B1	EX	EX	GYP	PTD	EX	EX	-	-	PTD	EX	EX	EX	-	-	-
E104	INSTRUMENT STORAGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E130	SECURE VESTIBULE	CPT	C1	RB	B1	EX	EX	AL	PREF	EX	EX	GYP	PTD	PREF/PTD	EX	EX	EX	-	-	-

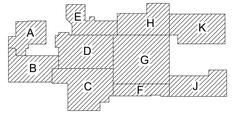
ROOM FINISH SCHEDULE UNIT F

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
F101	VESTIBULE	CPT	C1	RB	B1	EX	EX	EX	EX	EX	EX	EX	EX	EX/AL	EX	EX	EX	EX	EX	-
F103	WAITING	CPT	C1	RB	B1	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	-
F106	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F107	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F111	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F113	LOUNGE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F116	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F124	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F125	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F126	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2
F127	OFFICE	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	2

ROOM FINISH SCHEDULE UNIT G

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
						NORTH		EAST		SOUTH		WEST								
		MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH		MAT.	FINISH	HGT.	M/C	FINISH	
G102	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G103	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G109	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G110	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G111	COMPUTER LAB	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G112	COMPUTER LAB	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G113	COMPUTER LAB	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G123	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G124	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G125	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G126	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4
G127	CLASSROOM	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX/PTD	EX	EX	EX	EX	EX	EX	EX	EX	1,3,4

KEY PLAN



ISSUE DATE	ISSUED FOR
02/05/2025	PLAN REVIEW DOCUMENTS
04/10/2025	BID DOCUMENTS

DRAWN RJC

CHECKED RL

APPROVED DWJ

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

ROOM FINISH SCHEDULES

PROJECT NUMBER

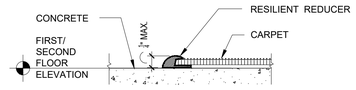
2024-053

SHEET NUMBER

A3.02

MATERIAL AND COLOR SCHEDULE

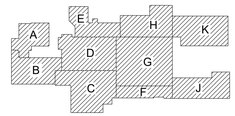
	KEY	MANUFACTURER	STYLE	COLOR	SPECS	NOTES
BASE	B1	JOHNSONITE	TBD	63 BURNT UMBER	ROLLED RUBBER GOODS	VESTIBULE
FLOORING	C1	FORBO	CORAL DUO	9730 BLACK DIAMOND	ROLLED	STRIPES PERPENDICULAR TO FOOT TRAFFIC
PAINT	P1SG-A	SHERWIN WILLIAMS	SEMI-GLOSS	MATCH EXISTING	SINGLE COMPONENT EPOXY	FIELD
	P11F-W	SHERWIN WILLIAMS	FLAT	CEILING WHITE	PRO-MAR 200	CEILINGS FIELD
CEILING	AT3	USG	RADAR HIGH DURABILITY	WHITE	2'-0"x2'-0"x3/4"	CORRIDOR
SILL	SS1	WILSONART	SOLID SURFACE	WHITE STONE	1/2" THICK	SILLS



A
A3.03

CONCRETE /
CARPET TRANSITION
SCALE: 3" = 1'-0"

KEY PLAN



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SHEET

MATERIAL AND
COLOR SCHEDULE

PROJECT NUMBER

2024-053

SHEET NUMBER

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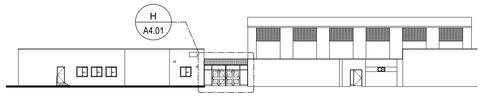
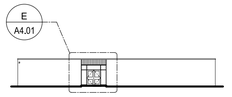
2024-053 CHESANING HIGH SCHOOL



F A2.10 UNIT D/E NORTH BUILDING ELEVATION
SCALE: 1/32" = 1'-0"

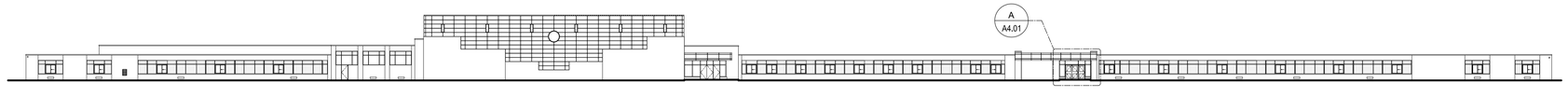
E A2.10 UNIT A/B NORTH BUILDING ELEVATION
SCALE: 1/32" = 1'-0"



D A2.10 UNIT J SOUTH BUILDING ELEVATION
SCALE: 1/32" = 1'-0"

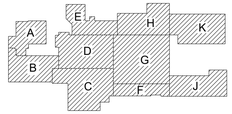
C A2.10 UNIT K WEST BUILDING ELEVATION
SCALE: 1/32" = 1'-0"

B A2.10 EAST BUILDING ELEVATION
SCALE: 1/32" = 1'-0"



A A2.10 WEST BUILDING ELEVATION
SCALE: 1/32" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

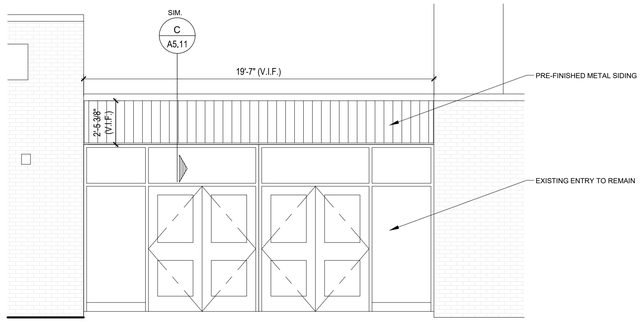
Chesaning,
Michigan

SHEET
BUILDING
ELEVATIONS

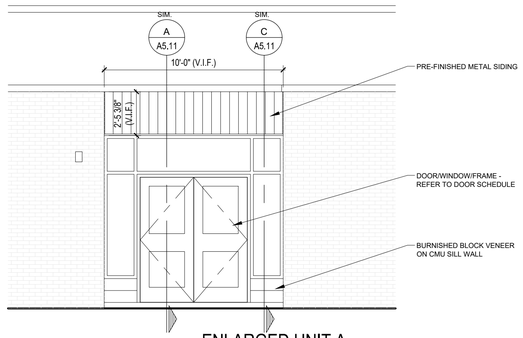
PROJECT NUMBER
2024-053

SHEET NUMBER
A4.00

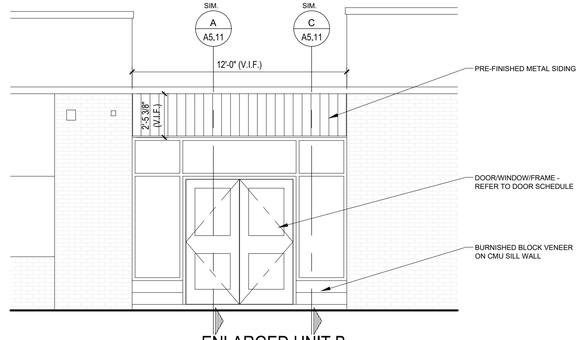
2024-053 CHESANING HIGH SCHOOL



H A4.00 ENLARGED UNIT E BUILDING ELEVATION
SCALE: 1/4" = 1'-0"

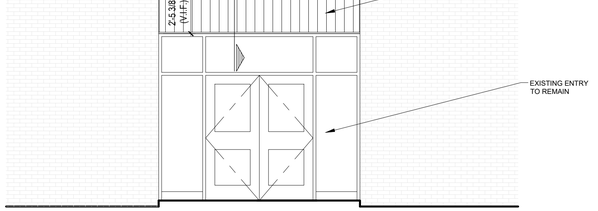


G A4.00 ENLARGED UNIT A BUILDING ELEVATION
SCALE: 1/4" = 1'-0"

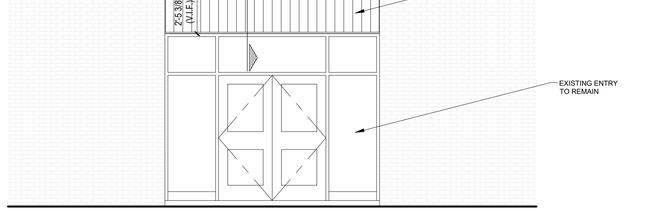


F A4.00 ENLARGED UNIT B BUILDING ELEVATION
SCALE: 1/4" = 1'-0"

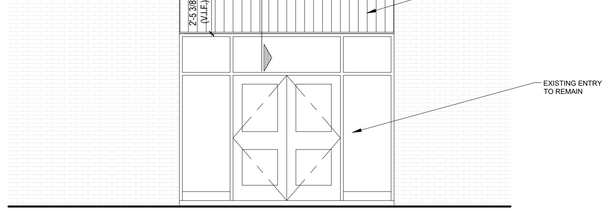
1'-0"



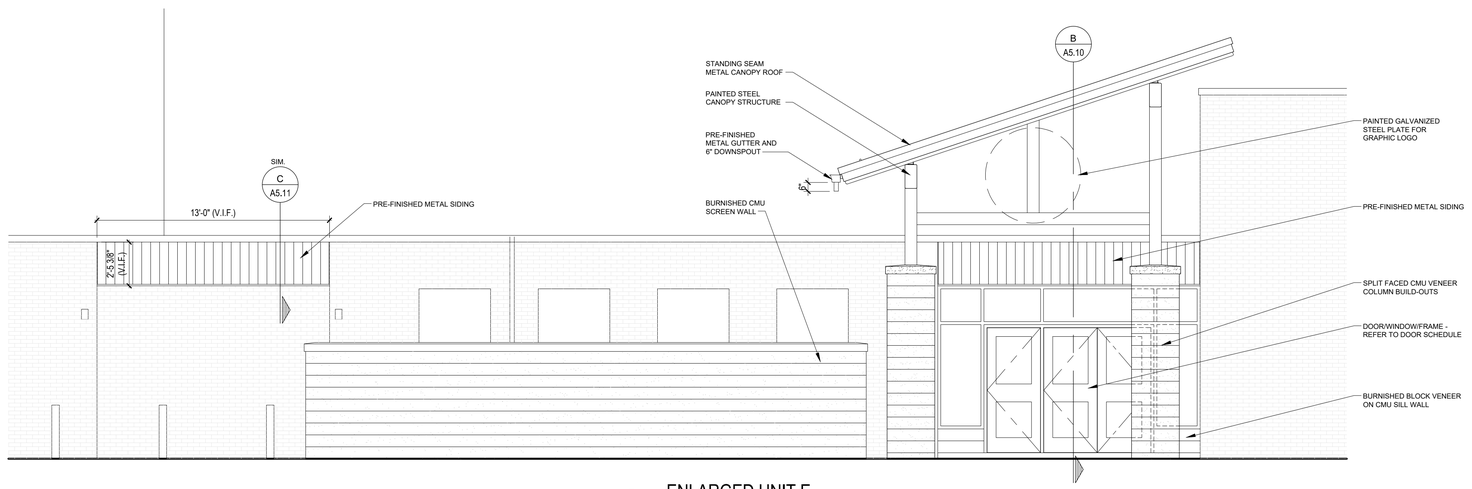
E A4.00 ENLARGED UNIT J BUILDING ELEVATION
SCALE: 1/4" = 1'-0"



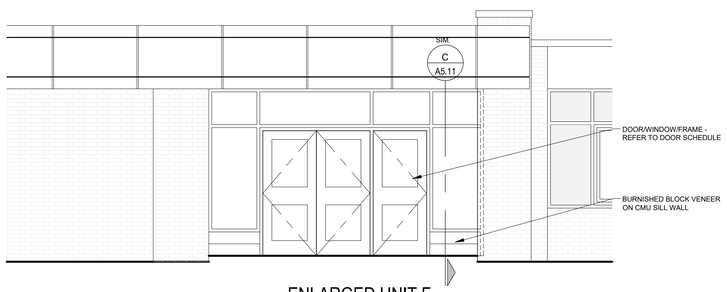
D A4.00 ENLARGED UNIT K WEST BUILDING ELEVATION
SCALE: 1/4" = 1'-0"



C A4.00 ENLARGED UNIT K EAST BUILDING ELEVATION
SCALE: 1/4" = 1'-0"

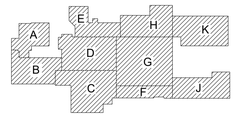


B A4.00 ENLARGED UNIT E BUILDING ELEVATION
SCALE: 1/4" = 1'-0"



A A4.00 ENLARGED UNIT F BUILDING ELEVATION
SCALE: 1/4" = 1'-0"

KEY PLAN



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248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

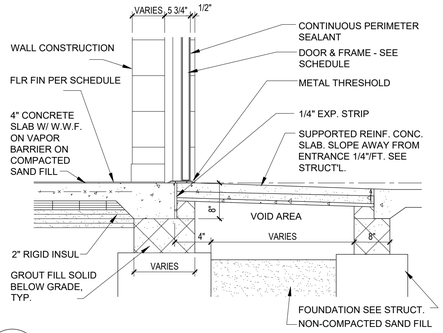
Chesaning,
Michigan

SHEET
PARTIAL ENLARGED
BUILDING ELEVATIONS

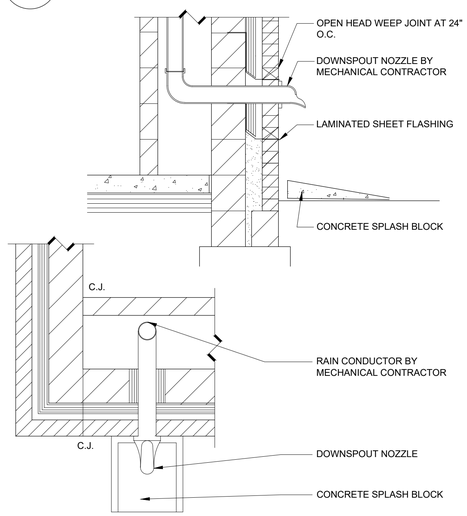
PROJECT NUMBER
2024-053

SHEET NUMBER
A4.01

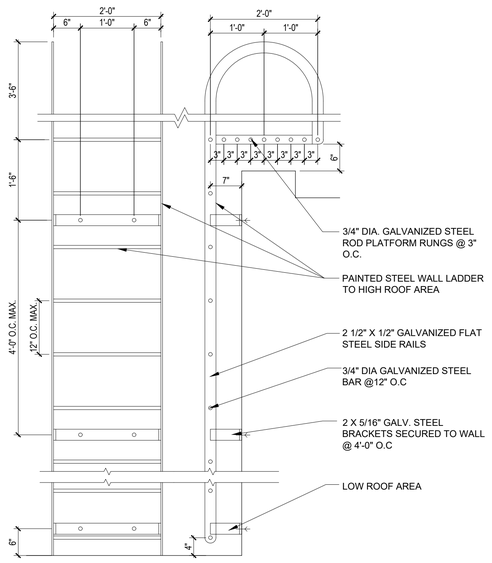
2024-053 CHESANING HIGH SCHOOL



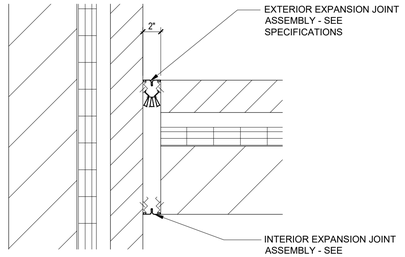
R SUPPORTED SLAB DETAIL
SCALE: N.T.S.



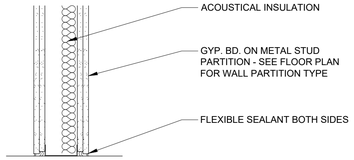
Q DOWNSPOUT NOZZE AND SPLASHBLOCK
SCALE: N.T.S.



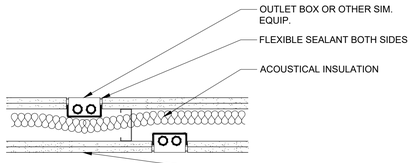
P WALL LADDER DETAIL
SCALE: N.T.S.



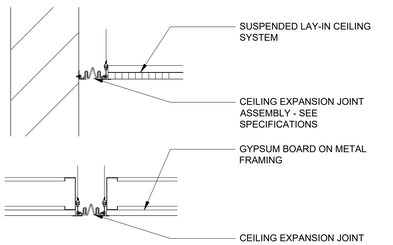
N EXTERIOR AND INTERIOR EXPANSION JOINT
SCALE: N.T.S.



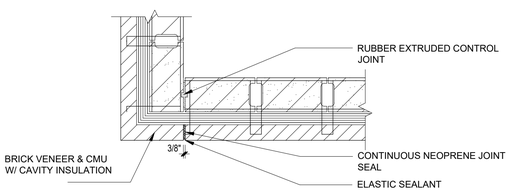
M SEALING PARTITIONS
SCALE: N.T.S.



L SEALING OPENINGS
SCALE: N.T.S.



K CEILING EXPANSION JOINT
SCALE: N.T.S.



J EXTERIOR EXPANSION JOINT
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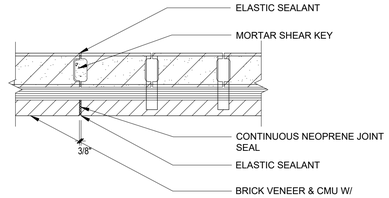

H EXTERIOR CONTROL JOINT
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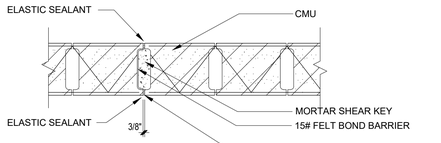

G INTERIOR CONTROL JOINT
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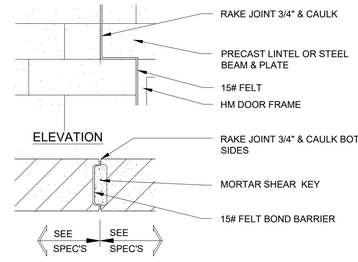

F CONTROL JOINT
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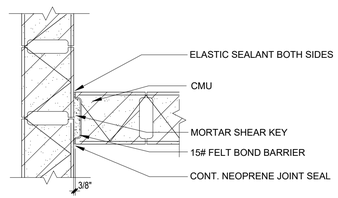
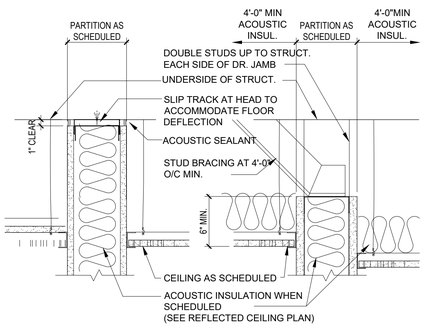


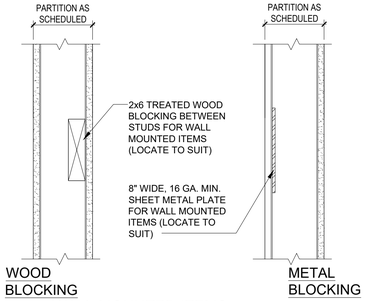
E INTERIOR CONTROL JOINT
SCALE: N.T.S.



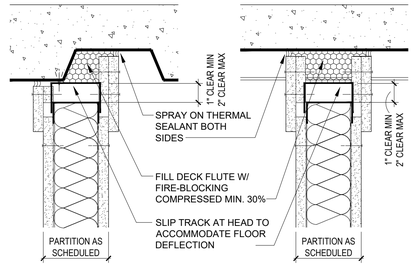
D TYPICAL NON-RATED PARTITION CONSTRUCTION
SCALE: N.T.S.

NOTE:
DO NOT ANCHOR VERTICAL STUDS TO TOP RUNNER. ALLOW FOR STRUCTURAL SLAB DEFLECTION.

NOTE:
THIS DETAIL ONLY APPLIES WHERE NOTED.

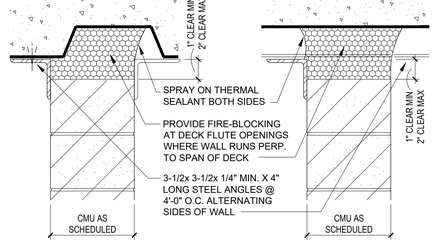


C WALL MOUNTED ITEMS TYPICAL BLOCKING DETAIL
SCALE: N.T.S.



NOTE:
1. PROVIDE FIRE-BLOCKING @ DECK FLUTE OPENINGS WHERE WALL RUNS PERP. TO SPAN OF DECK
2. ONE (1) OR TWO (2) HOUR RATING: UL DESIGN No. HW-0009 - SEE SPECIFICATION SECTION PENETRATION FIRESTOPPING.

B TYPICAL FIRE-RATED STUD PARTITION CONSTRUCTION
SCALE: N.T.S.



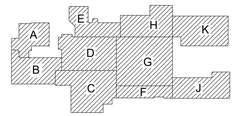
NOTE:
1. PROVIDE FIRE-BLOCKING @ DECK FLUTE OPENINGS WHERE WALL RUNS PERP. TO SPAN OF DECK.
2. DO NOT ANCHOR VERTICAL STUDS TO TOP RUNNER. ALLOW FOR STRUCTURAL SLAB DEFLECTION.
3. ONE (1) HOUR RATING: UL DESIGN No. HW-D-0001 - SEE SPECIFICATION SECTION PENETRATION FIRESTOPPING.
4. TWO (2) HOUR RATING: UL DESIGN No. HW-D-0002 - SEE SPECIFICATION SECTION PENETRATION FIRESTOPPING.

A TYPICAL FIRE-RATED CMU PARTITION CONSTRUCTION
SCALE: N.T.S.

GENERAL NOTES

1. INTERIOR WALL PARTITION TYPE CODE:
   INTERIOR WALL PARTITION CONSTRUCTION AS DETAILED:
   ALL PARTITIONS ARE TO GO TO UNDERSIDE OF STRUCTURE.
   INTERIOR WALL PARTITION CONSTRUCTION WITH ACOUSTIC INSULATION AS DETAILED:
   A) ALL INTERIOR PARTITIONS SHALL EXTEND TO THE UNDERSIDE OF DECK ABOVE.
   B) IN A PARTITION NOTED TO GO TO THE UNDERSIDE OF STRUCTURE PROVIDE BATT SOUND INSULATION FULL HEIGHT OF PARTITION.
   C) PROVIDE / INSTALL SEALANT UNDER PARTITION FLOOR TRACK BOTH EDGES WHEN ACOUSTIC INSULATION IS INDICATED AND AT ALL FIRE-RATED PARTITIONS.
   D) ACOUSTIC INSULATION IS TO HAVE A MIN. STC RATING OF 50.
2. NOT ALL DETAILS ON THIS SHEET WILL BE USED ON THIS PROJECT. DETAILS ARE TYPICAL AND SHALL APPLY WHEN CONSTRUCTION CONDITION EXISTS.
3. REFER TO STANDARD DETAILS THIS SHEET FOR TYPICAL INTERIOR PARTITION CONSTRUCTION INFORMATION. REFER TO DETAIL PLANS AND PLAN DETAILS FOR SPECIAL PARTITION CONSTRUCTION INFORMATION.
4. ADDITIONAL SURFACE FINISHES ON FACING MATERIAL ARE NOTED ON ROOM FINISH SCHEDULE & DETAILS.

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

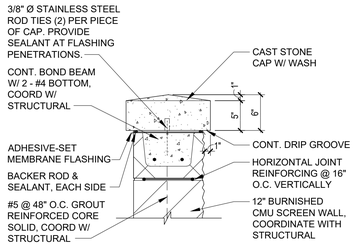
Chesaning,
Michigan

SHEET
TYPICAL CONSTRUCTION DETAILS

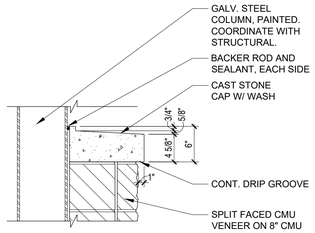
PROJECT NUMBER
2024-053

SHEET NUMBER
A5.02

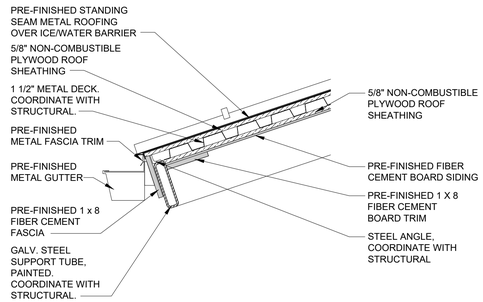
2024-053 CHESANING HIGH SCHOOL



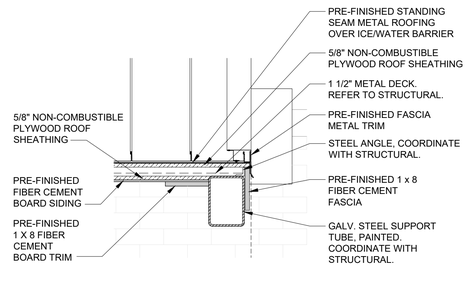
G A5.10 **SCREEN WALL CAST STONE DETAIL**
SCALE: 1" = 1'-0"



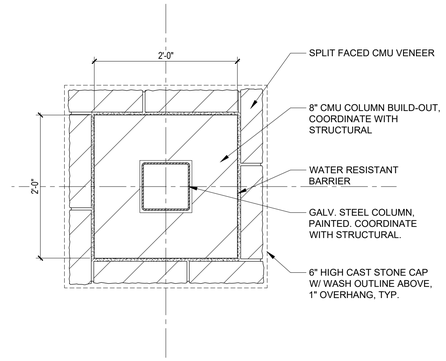
F A5.10 **CANOPY CAST STONE DETAIL**
SCALE: 1" = 1'-0"



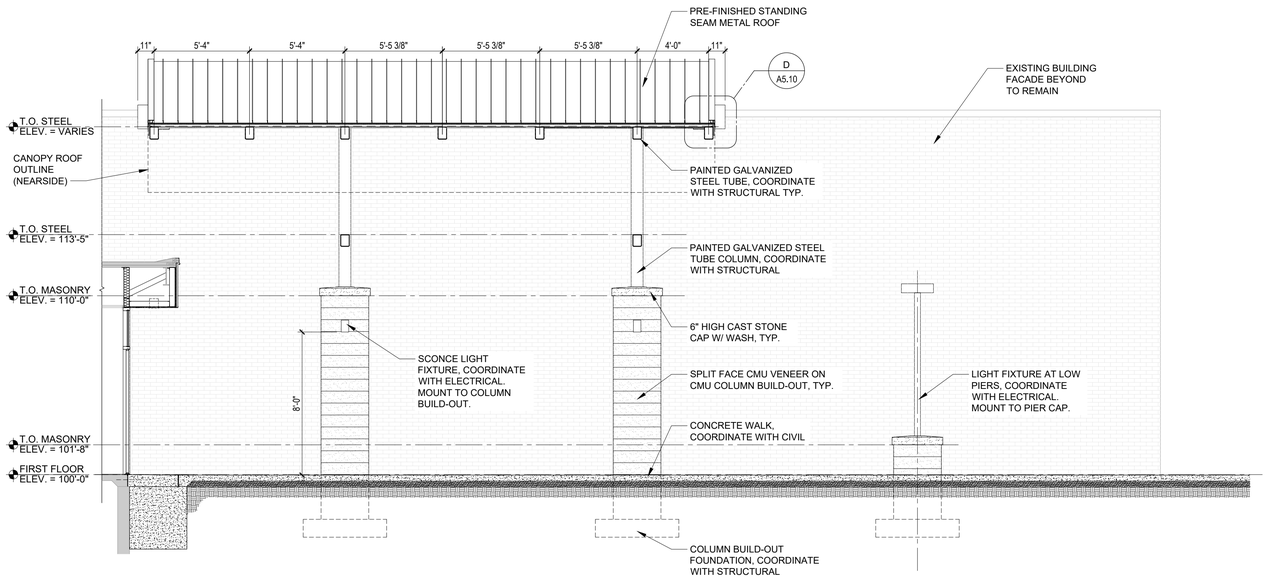
E A5.10 **CANOPY DETAIL**
SCALE: 1" = 1'-0"



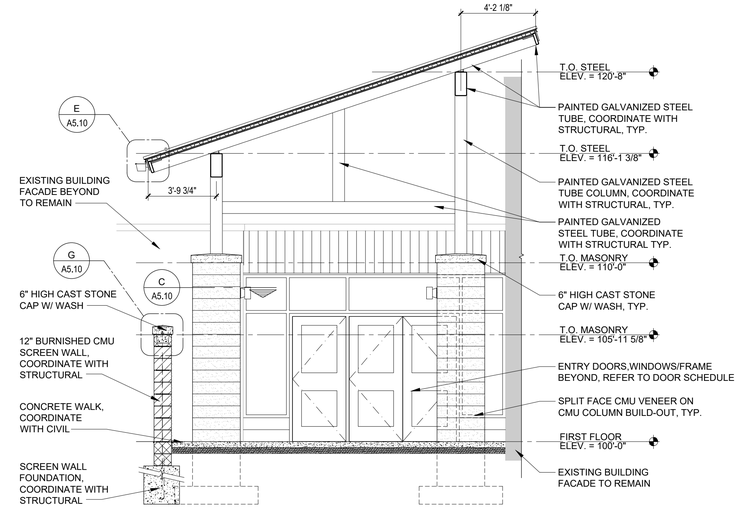
D A5.10 **CANOPY DETAIL**
SCALE: 1" = 1'-0"



C A5.10 **CANOPY COLUMN DETAIL**
SCALE: 1" = 1'-0"

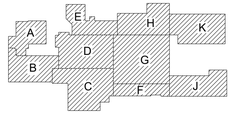


B A4.01 **NEW WORK CANOPY SECTION**
SCALE: 1/4" = 1'-0"



A A2.20 **NEW WORK CANOPY SECTION**
SCALE: 1/4" = 1'-0"

KEY PLAN



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PROJECT
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Chesaning High School
Remodel

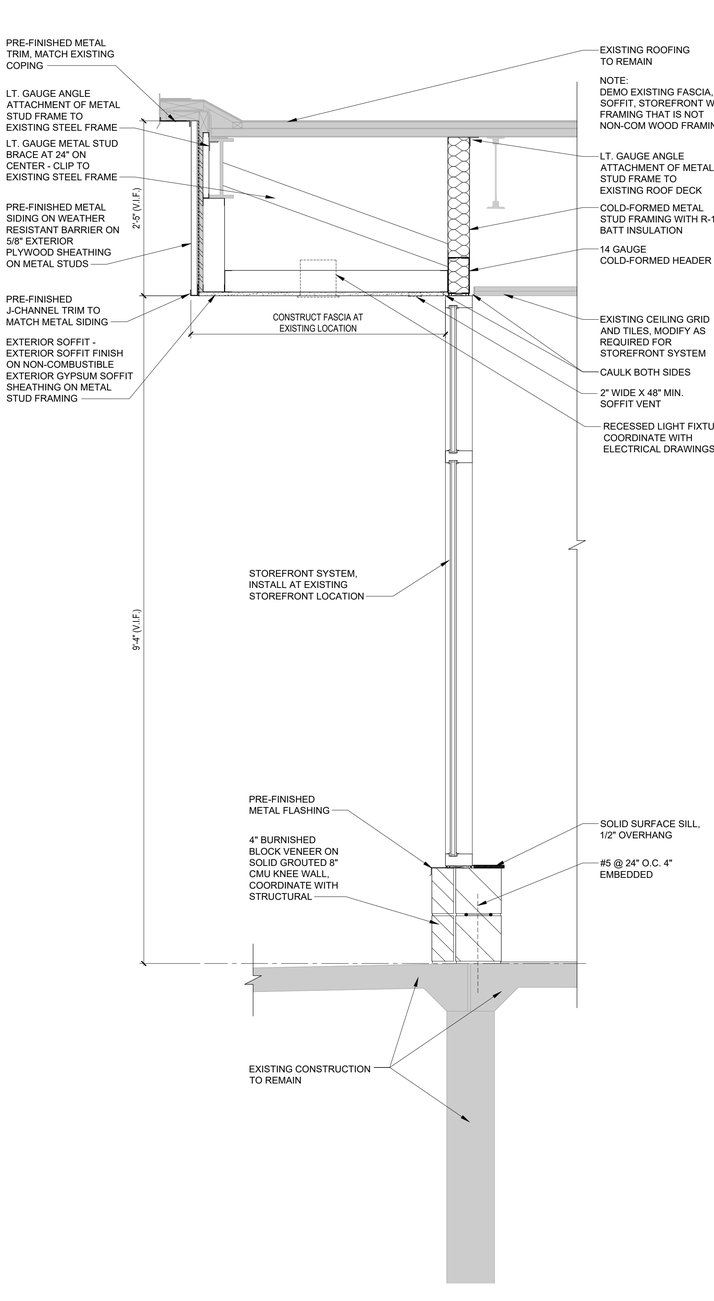
Chesaning,
Michigan

SHEET
CANOPY SECTIONS AND DETAILS

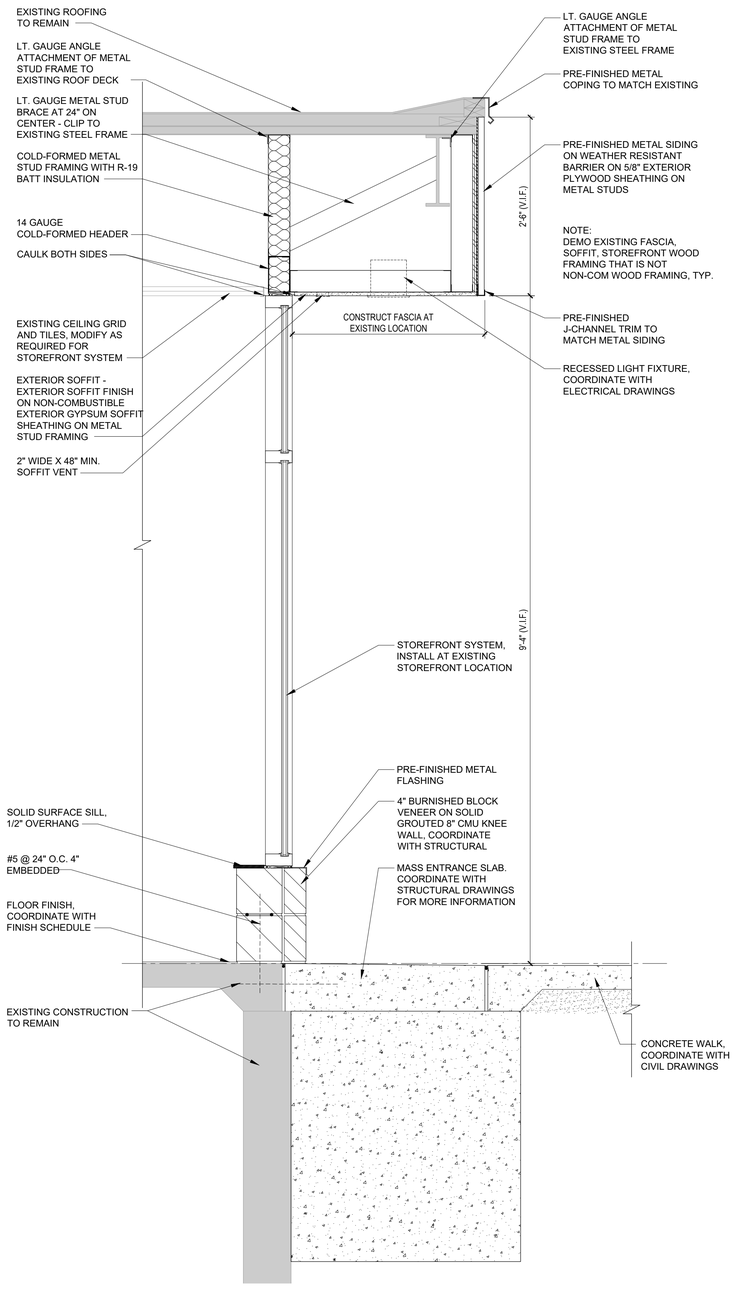
PROJECT NUMBER
2024-053

SHEET NUMBER
A5.10

2024.053 CHESANING HIGH SCHOOL



C A4.01 NEW WORK SECTION
SCALE: 1" = 1'-0"



B A4.01 NEW WORK SECTION
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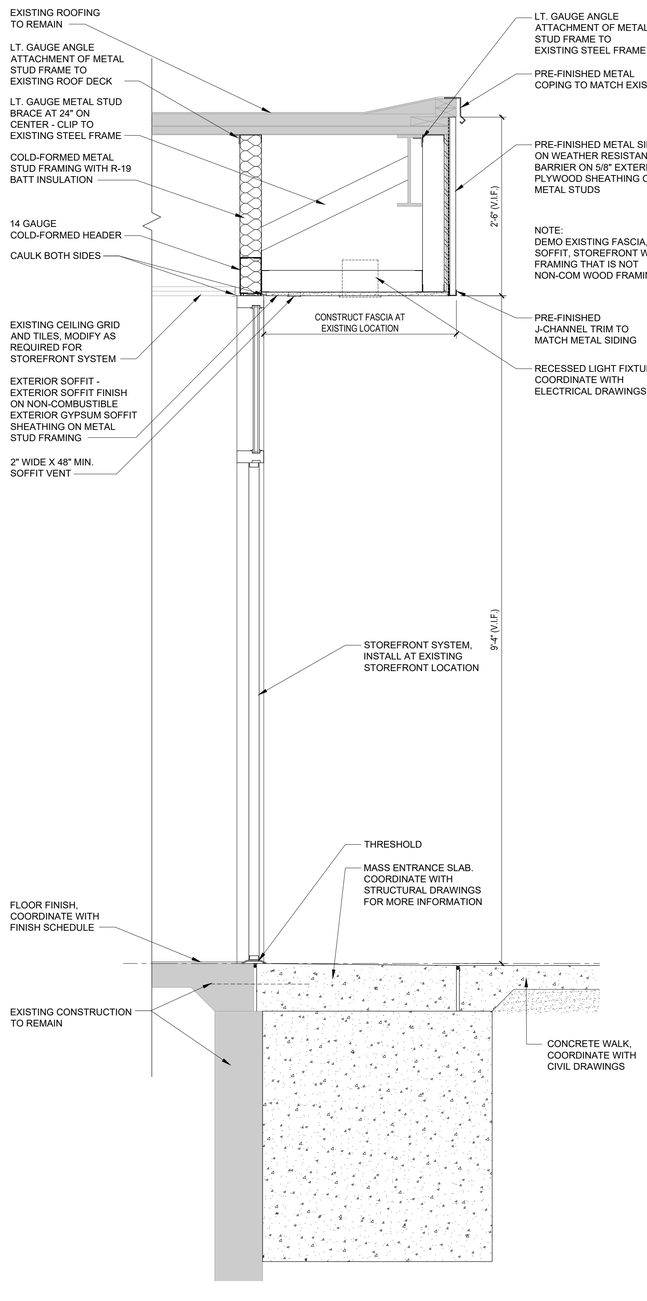
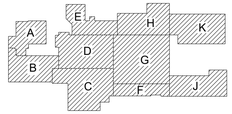


A A4.01 NEW WORK SECTION
SCALE: 1" = 1'-0"

KEY PLAN



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Remodel

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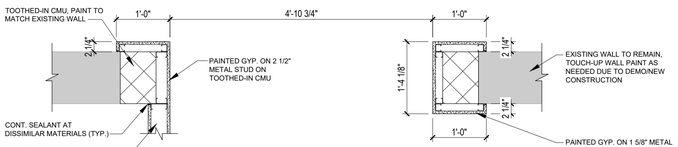
SHEET
WALL SECTIONS

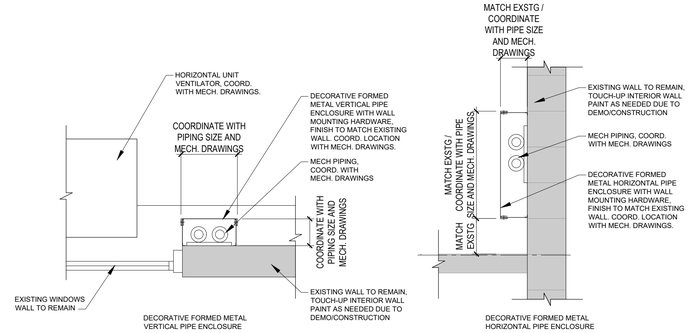
PROJECT NUMBER
2024-053

SHEET NUMBER
A5.11

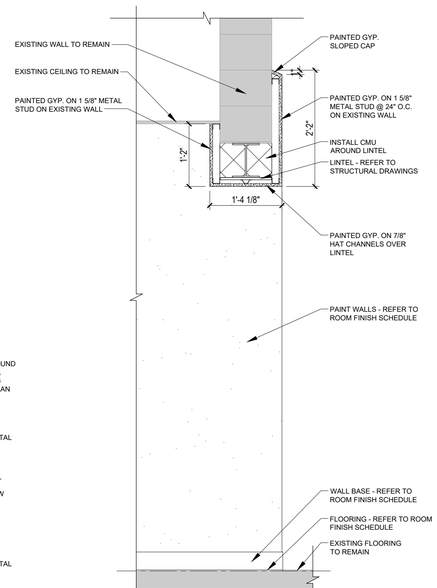
2024-053 CHESANING HIGH SCHOOL



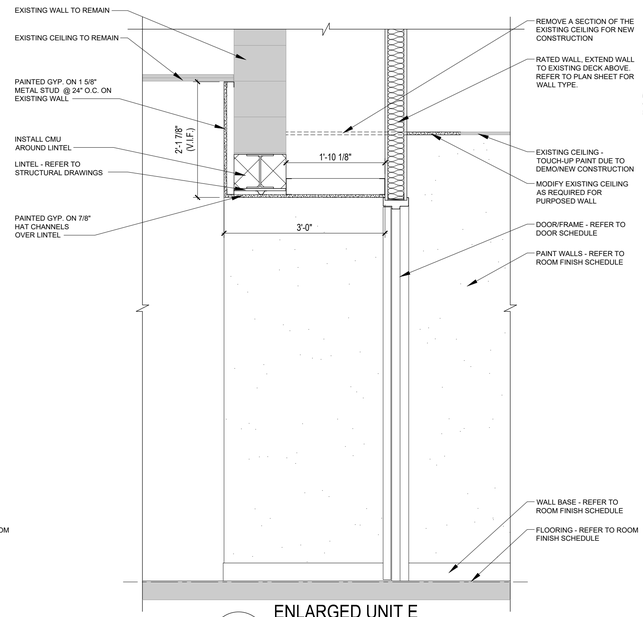
L A2.10E **UNIT E PLAN DETAIL**
SCALE: 3/4" = 1'-0"



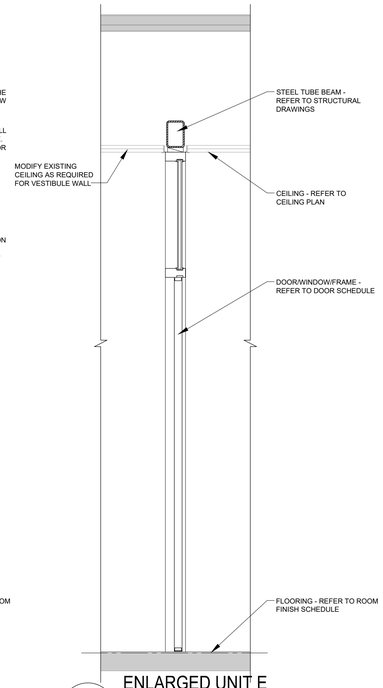
M A6.00 **CLASSROOM PIPE ENCLOSURES**
SCALE: 3/4" = 1'-0"



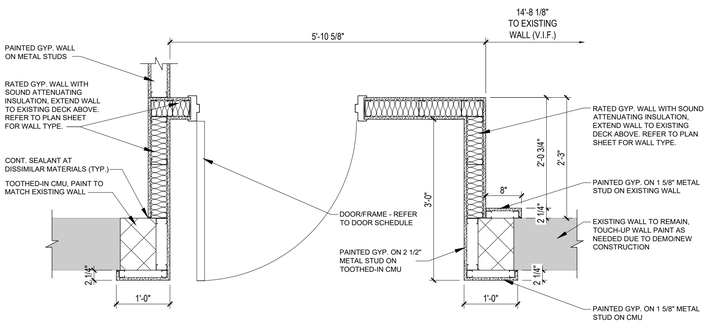
J A6.00 **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 3/4" = 1'-0"



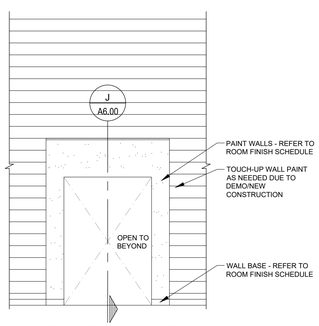
H A6.00 **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 3/4" = 1'-0"



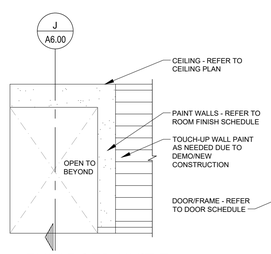
G A6.00 **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 3/4" = 1'-0"



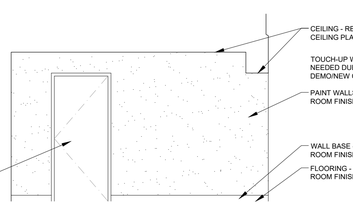
K A2.10E **UNIT E PLAN DETAIL**
SCALE: 3/4" = 1'-0"



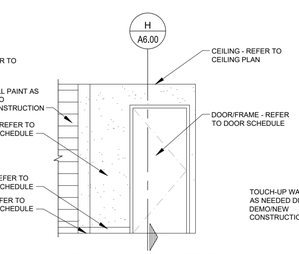
F A9.10E **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



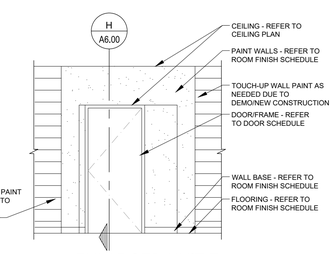
E A9.10E **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



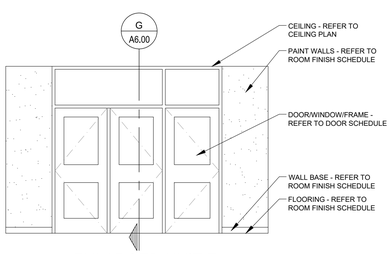
D A9.10E **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



C A9.10E **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"

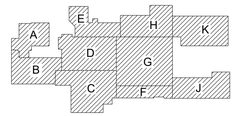


B A9.10E **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



A A9.10E **ENLARGED UNIT E INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"

KEY PLAN



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Chesaning High School
Remodel

Chesaning,
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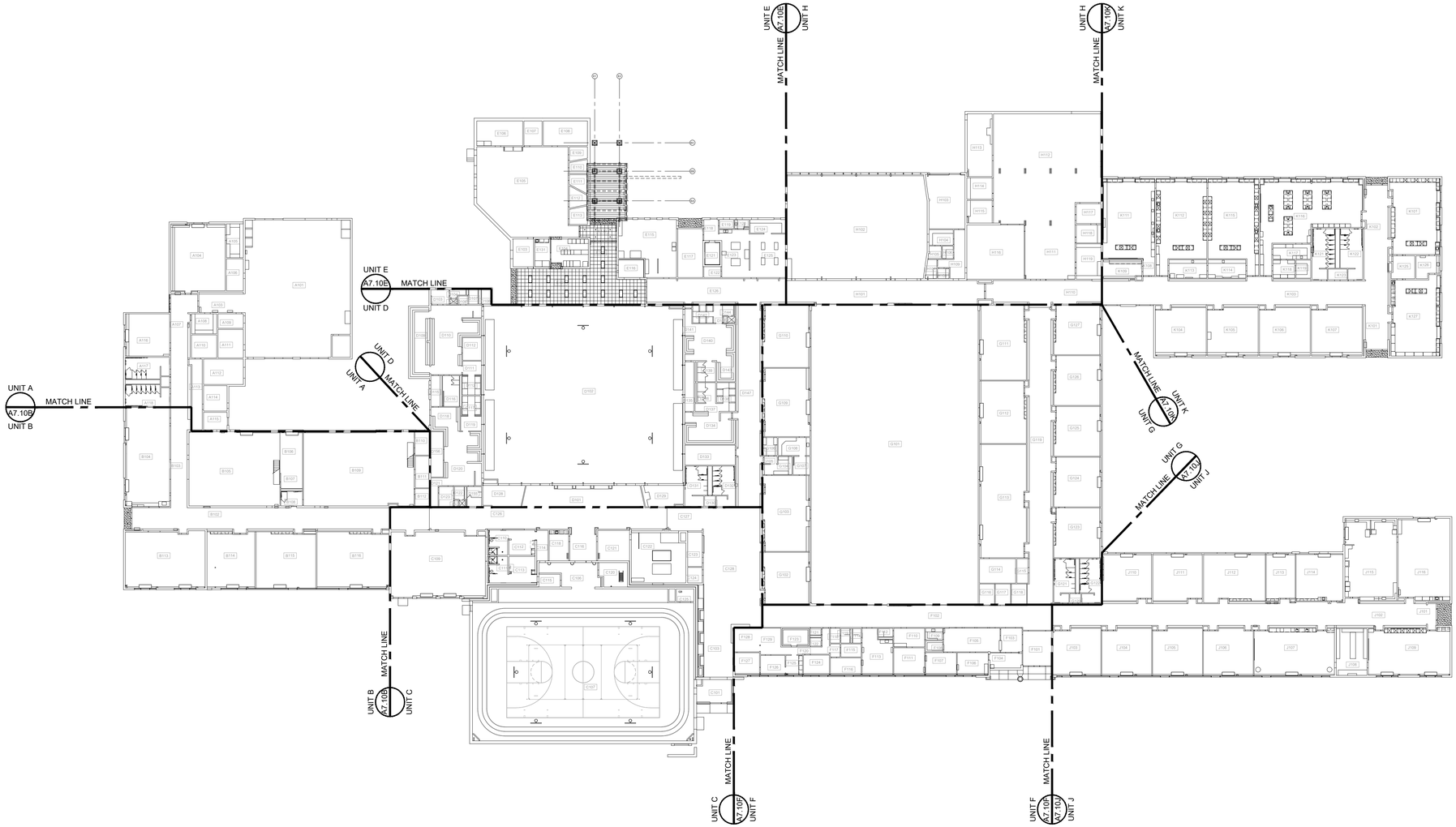
SHEET
INTERIOR ELEVATIONS, SECTIONS & DETAILS

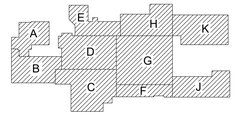
PROJECT NUMBER
2024-053

SHEET NUMBER
A6.00



COMPOSITE
REFLECTED CEILING PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
COMPOSITE
REFLECTED
CEILING PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A7.10

2024-053 CHESANING HIGH SCHOOL

REFLECTED CEILING PLAN LEGEND

- LAY-IN CEILING IN SUSPENDED METAL GRID 2x2 OR 2x4, SEE CEILING PLAN
- PAINTED GYPSUM BOARD
- PRE-FIN. MET. SOFFIT PANEL.
- PRE-FIN. MET. VENTED SOFFIT PANEL.
- ELEVATION OF CEILING ABOVE FINISH FLOOR
- RECESSED INCANDESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- LAY-IN ACOUSTICAL DIFFUSER
- TRACK LIGHTING
- EXIT LIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE
- EXPOSED CEILING HUNG LIGHT FIXTURE
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- LINEAR SLOT DIFFUSER
- RADIANT CEILING PANEL
- AREA THAT RECEIVES GYP'BD TO UNDERSIDE OF PRE-ENG. MET. TRUSSES FOR SMOKE TIGHT CONDITION.
- AREA THAT RECEIVES SHAFTWALL TO UNDERSIDE OF PRE-ENG. MET. TRUSSES FOR 1 HOUR FIRE RATING.

REFLECTED CEILING PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK.

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK OR WHERE OTHERWISE INDICATED.

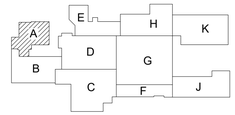
C. THE ELEVATION OF CEILING AND SOFFIT HEIGHTS OF ROOMS ARE GIVEN FROM FINISH FLOOR.

REFLECTED CEILING PLAN KEY NOTES (X)

1. EXTERIOR SOFFIT AND FASCIA (HORIZONTAL AND VERTICAL FACES) FINISHES. REFER TO SECTIONS FOR MORE INFORMATION.
2. EXTERIOR ENTRY SOFFIT LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.
3. CANOPY FIBER CEMENT BOARD SIDING AND TRIM. REFER TO SECTIONS FOR MORE INFORMATION.
4. CANOPY GALV. STEEL STRUCTURE. REFER TO SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
5. MODIFY EXISTING CEILING GRID AND CEILING TILES FOR VESTIBULE WALL.
6. MODIFY CEILING TILE(S) FOR INSTALLATION OF HUV AND FIN TUBE DECORATIVE FORMED METAL VERTICAL PIPING ENCLOSURE, COORDINATE WITH MECHANICAL DRAWINGS.
7. REPLACE MISSING CEILING TILES AFTER REMOVAL OF GRILLES, MATCH EXISITNG CEILING TILES.

UNIT A
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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DRAWN	RJC
CHECKED	RL
APPROVED	DWJ

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT A
REFLECTED
CEILING PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A7.10A

2024-053 CHESANING HIGH SCHOOL

REFLECTED CEILING PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK.

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK OR WHERE OTHERWISE INDICATED.

C. THE ELEVATION OF CEILING AND SOFFIT HEIGHTS OF ROOMS ARE GIVEN FROM FINISH FLOOR.

REFLECTED CEILING PLAN KEY NOTES (X)

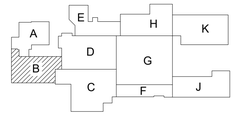
1. EXTERIOR SOFFIT AND FASCIA (HORIZONTAL AND VERTICAL FACES) FINISHES. REFER TO SECTIONS FOR MORE INFORMATION.
2. EXTERIOR ENTRY SOFFIT LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.
3. CANOPY FIBER CEMENT BOARD SIDING AND TRIM. REFER TO SECTIONS FOR MORE INFORMATION.
4. CANOPY GALV. STEEL STRUCTURE. REFER TO SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
5. MODIFY EXISTING CEILING GRID AND CEILING TILES FOR VESTIBULE WALL.
6. MODIFY CEILING TILE(S) FOR INSTALLATION OF HUV AND FIN TUBE DECORATIVE FORMED METAL VERTICAL PIPING ENCLOSURE. COORDINATE WITH MECHANICAL DRAWINGS. REFER TO DETAIL M ON SHEET A6.00.
7. REPLACE MISSING CEILING TILES AFTER REMOVAL OF GRILLES, MATCH EXISITNG CEILING TILES.

REFLECTED CEILING PLAN LEGEND

- LAY-IN CEILING IN SUSPENDED METAL GRID 2x2 OR 2x4, SEE CEILING PLAN
- PAINTED GYPSUM BOARD
- PRE-FIN. MET. SOFFIT PANEL.
- PRE-FIN. MET. VENTED SOFFIT PANEL.
- ELEVATION OF CEILING ABOVE FINISH FLOOR
- RECESSED INCANDESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- LAY-IN ACOUSTICAL DIFFUSER
- TRACK LIGHTING
- EXIT LIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE
- EXPOSED CEILING HUNG LIGHT FIXTURE
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- LINEAR SLOT DIFFUSER
- RADIANT CEILING PANEL
- AREA THAT RECEIVES GYP'BD TO UNDERSIDE OF PRE-ENG. MET. TRUSSES FOR SMOKE TIGHT CONDITION.
- AREA THAT RECEIVES SHAFTWALL TO UNDERSIDE OF PRE-ENG. MET. TRUSSES FOR 1 HOUR FIRE RATING.

UNIT B
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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Chesaning High School
Remodel

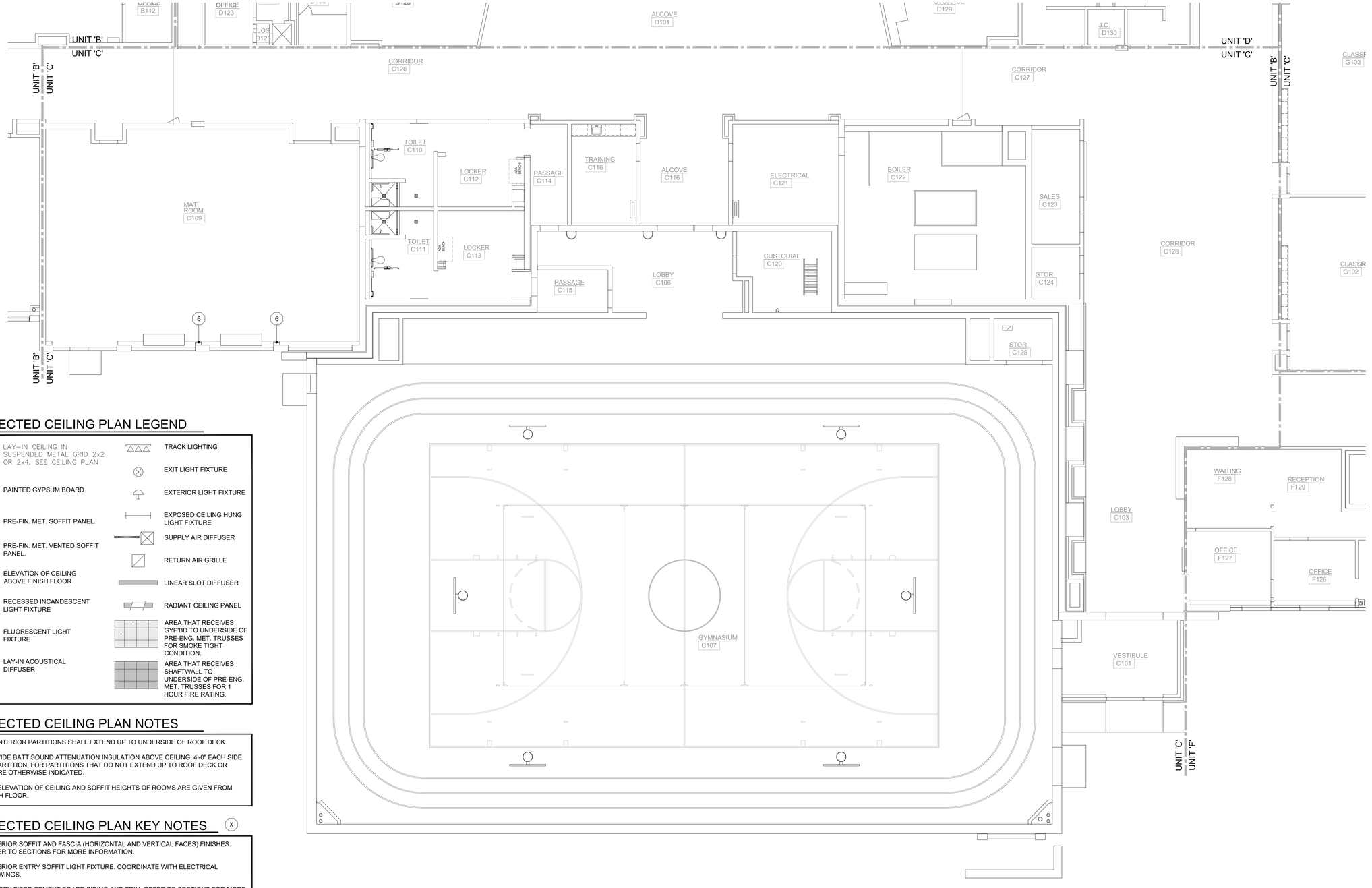
Chesaning,
Michigan

SHEET
UNIT B
REFLECTED
CEILING PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A7.10B

2024-053 CHESANING HIGH SCHOOL



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C. THE ELEVATION OF CEILING AND SOFFIT HEIGHTS OF ROOMS ARE GIVEN FROM FINISH FLOOR.

REFLECTED CEILING PLAN KEY NOTES (X)

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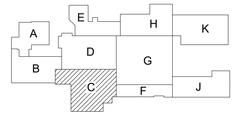
UNIT C
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT C
REFLECTED
CEILING PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A7.10C

2024-053 CHESANING HIGH SCHOOL

REFLECTED CEILING PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK.

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK OR WHERE OTHERWISE INDICATED.

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- PRE-FIN. MET. VENTED SOFFIT PANEL.
- ELEVATION OF CEILING ABOVE FINISH FLOOR
- RECESSED INCANDESCENT LIGHT FIXTURE
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- LAY-IN ACOUSTICAL DIFFUSER
- TRACK LIGHTING
- EXIT LIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE
- EXPOSED CEILING HUNG LIGHT FIXTURE
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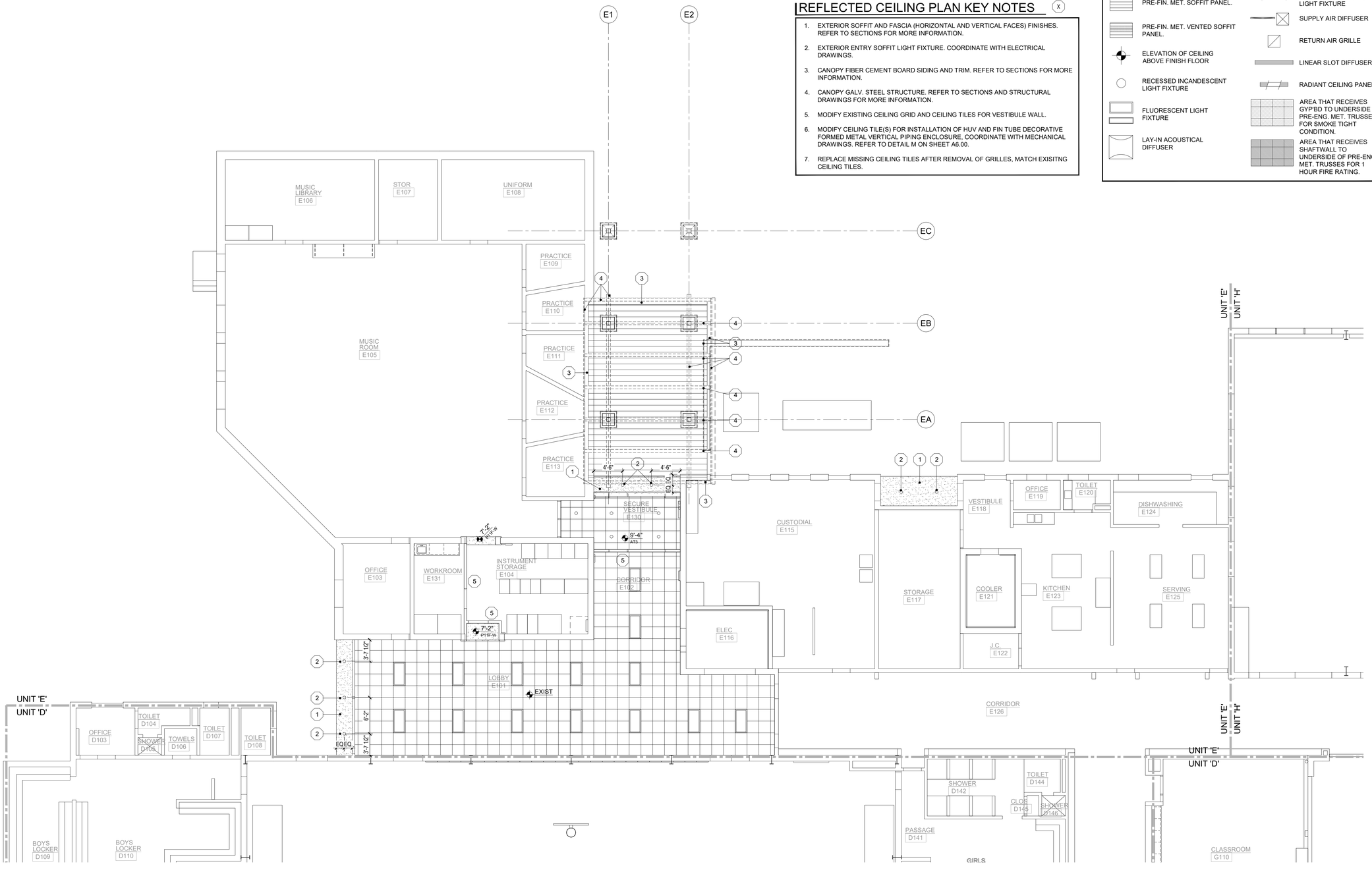
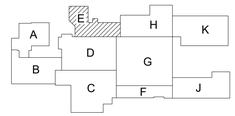


UNIT E
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
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SHEET
UNIT E
REFLECTED
CEILING PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A7.10E

2024-053 CHESANING HIGH SCHOOL

REFLECTED CEILING PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK.

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK OR WHERE OTHERWISE INDICATED.

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- EXIT LIGHT FIXTURE
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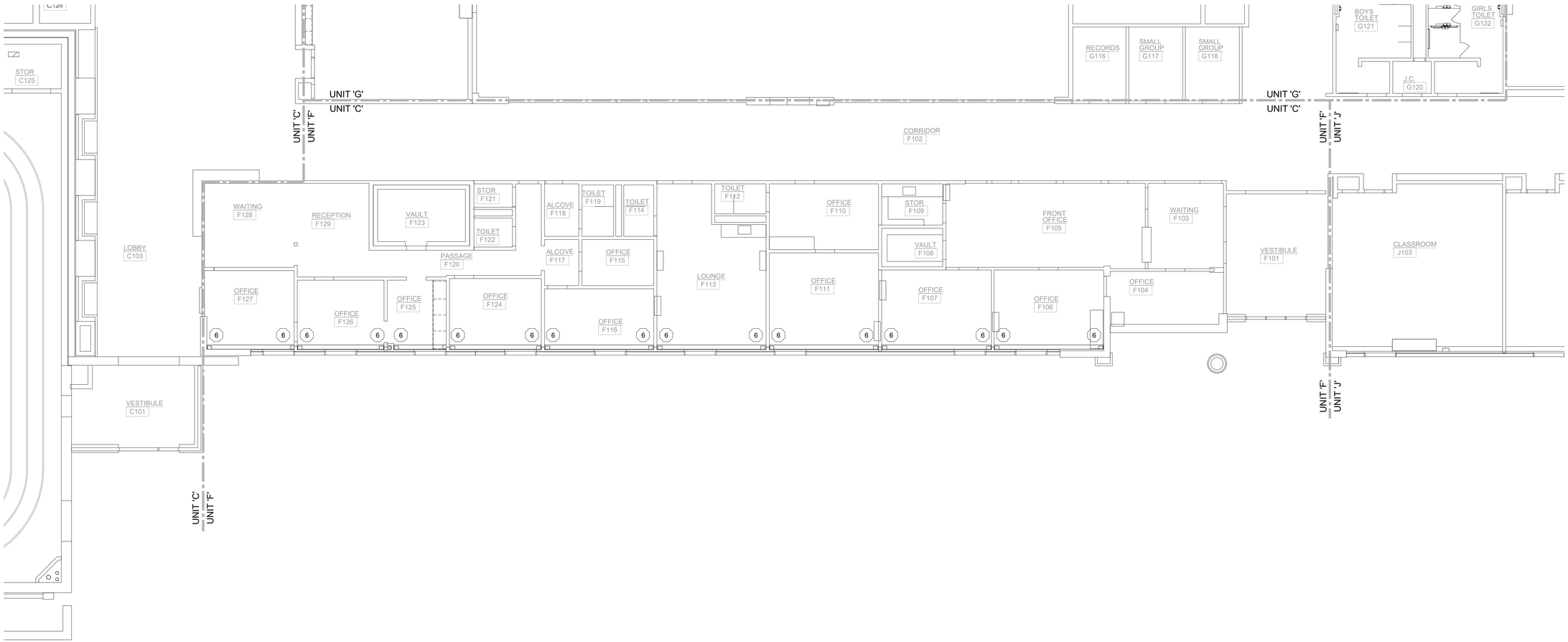
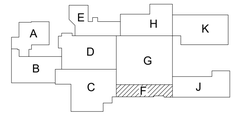


UNIT F
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

UNIT F
REFLECTED
CEILING PLAN

PROJECT NUMBER

2024-053

SHEET NUMBER

A7.10F

2024-053 CHESANING HIGH SCHOOL

UNIT G
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- LAY-IN CEILING IN SUSPENDED METAL GRID 2x2 OR 2x4, SEE CEILING PLAN
- PAINTED GYPSUM BOARD
- PRE-FIN. MET. SOFFIT PANEL.
- PRE-FIN. MET. VENTED SOFFIT PANEL.
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REFLECTED CEILING PLAN NOTES

A. ALL INTERIOR PARTITIONS SHALL EXTEND UP TO UNDERSIDE OF ROOF DECK.

B. PROVIDE BATT SOUND ATTENUATION INSULATION ABOVE CEILING, 4'-0" EACH SIDE OF PARTITION, FOR PARTITIONS THAT DO NOT EXTEND UP TO ROOF DECK OR WHERE OTHERWISE INDICATED.

C. THE ELEVATION OF CEILING AND SOFFIT HEIGHTS OF ROOMS ARE GIVEN FROM FINISH FLOOR.

REFLECTED CEILING PLAN KEY NOTES (X)

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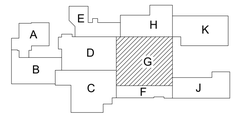
KEY PLAN



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SHEET
UNIT G
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PROJECT NUMBER
2024-053

SHEET NUMBER
A7.10G

2024-053 CHESANING HIGH SCHOOL

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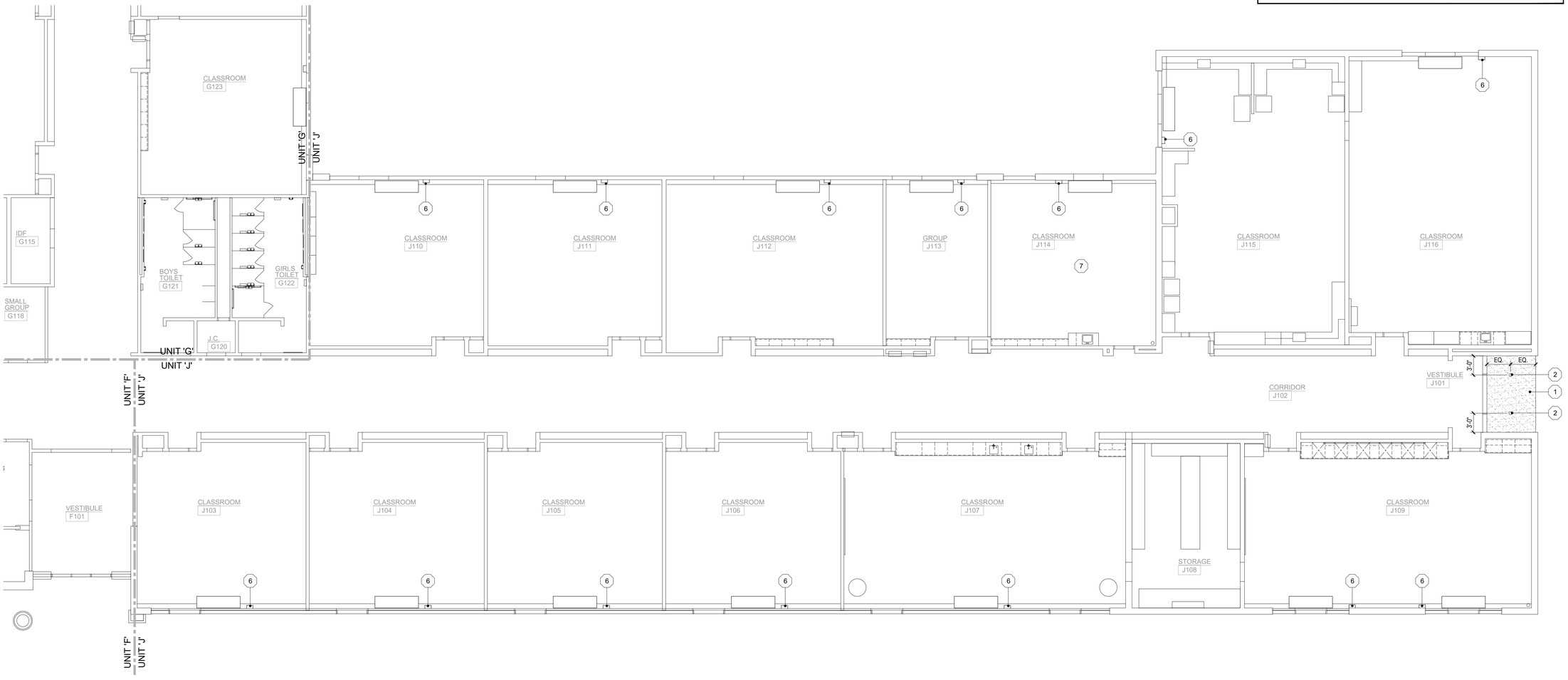
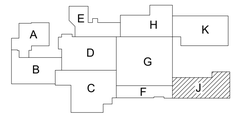


UNIT J
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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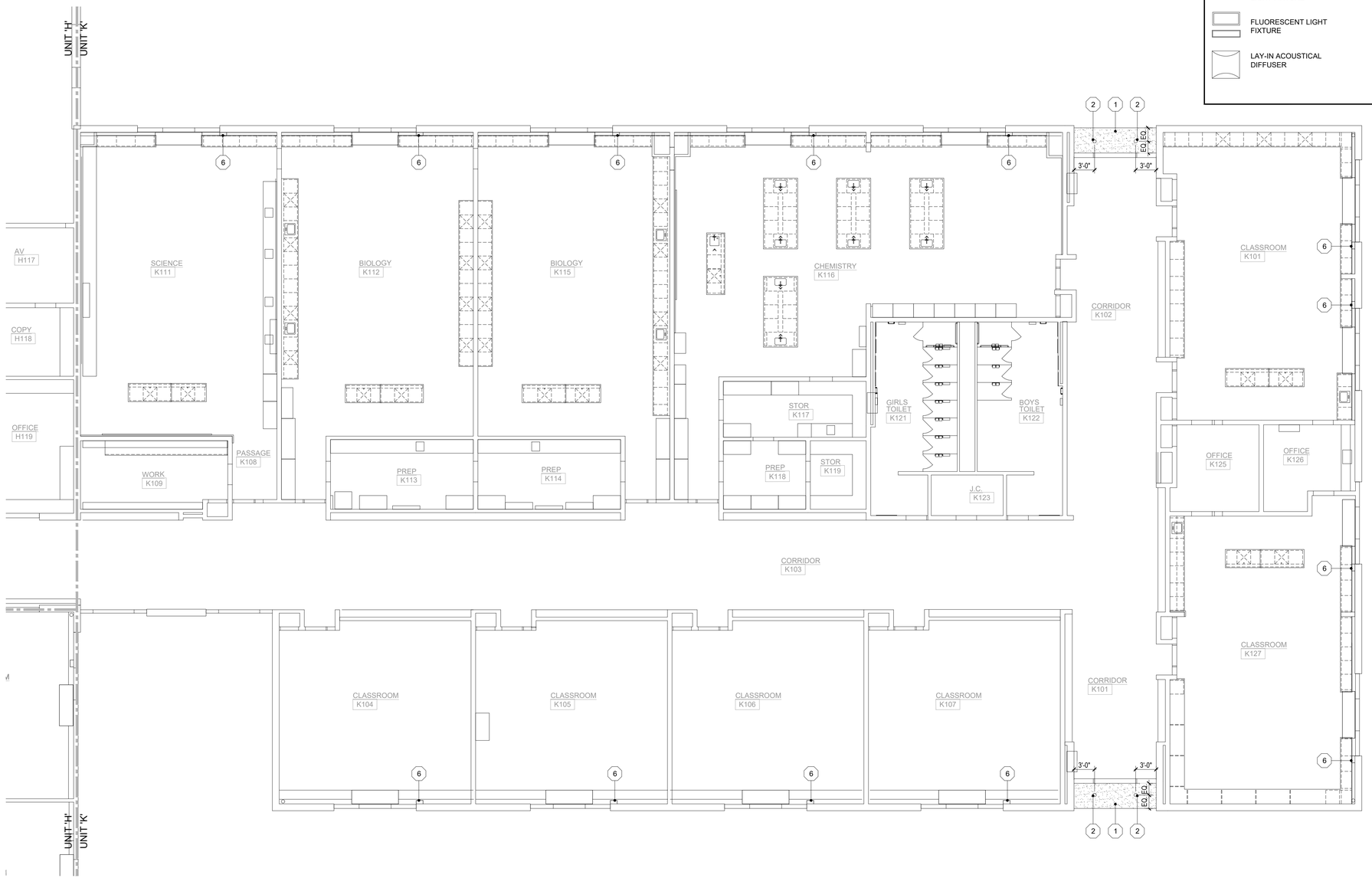
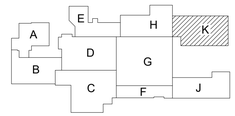


UNIT K
DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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04/10/2025	BID DOCUMENTS

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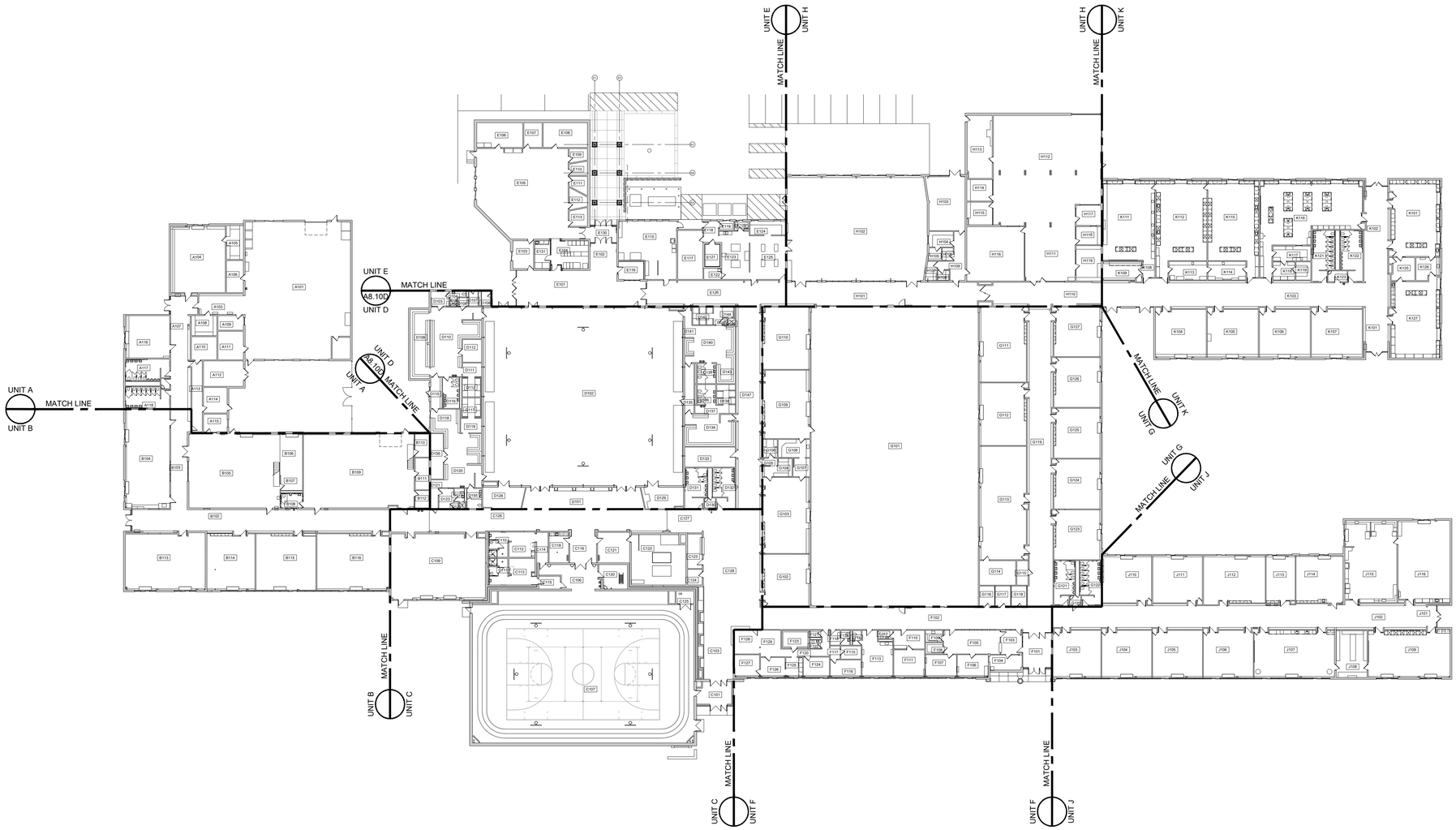
PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT K
REFLECTED
CEILING PLAN

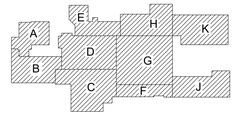
PROJECT NUMBER
2024-053

SHEET NUMBER
A7.10K



COMPOSITE
EQUIPMENT FLOOR PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN



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PROJECT
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SHEET
COMPOSITE
EQUIPMENT
FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A8.10

2024-53 CHESANING HIGH SCHOOL

EQUIPMENT PLAN KEY NOTES (X)

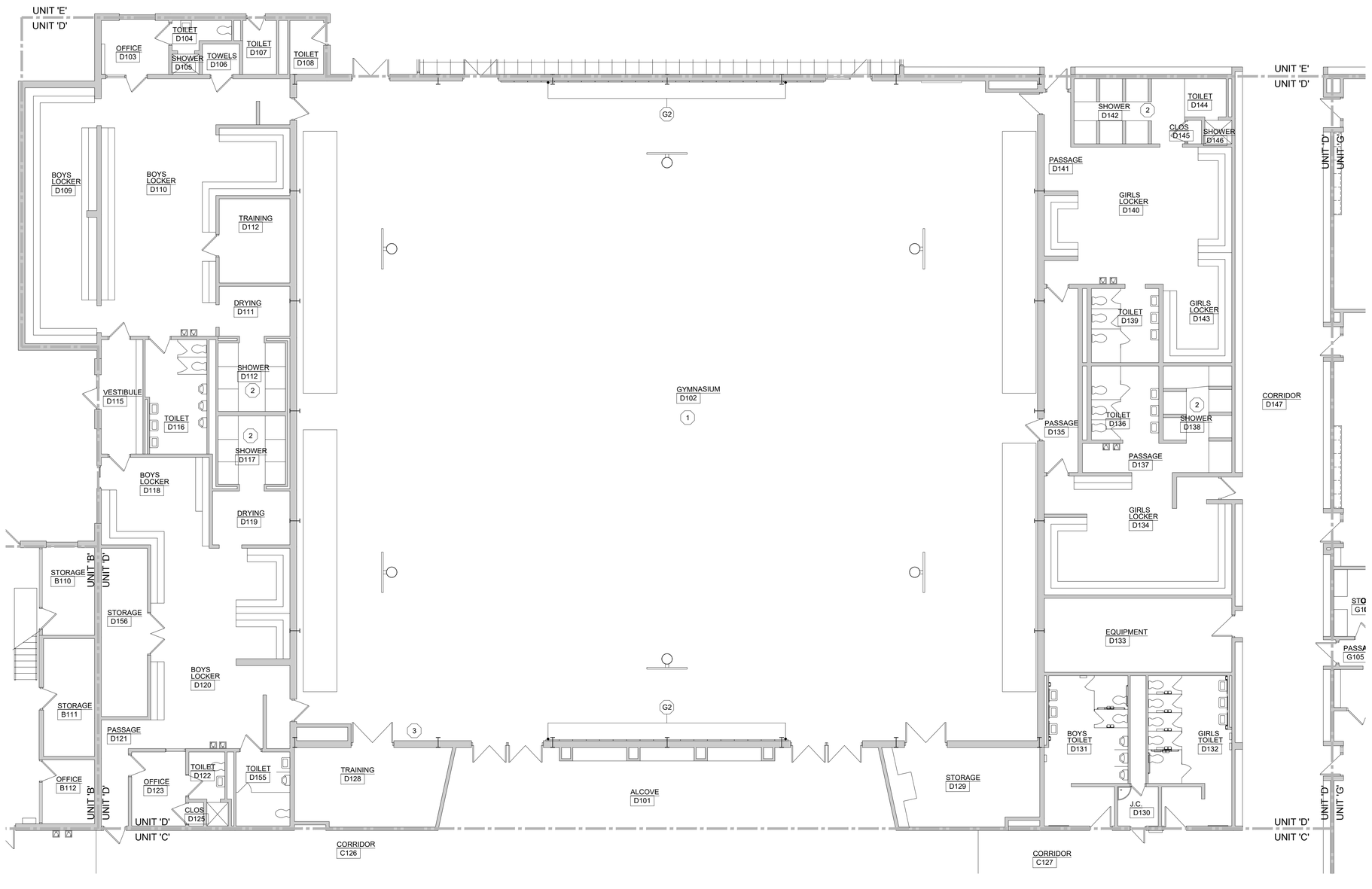
1. BACKBOARD CONTROLS. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. SHOWER FIXTURES AND CONTROLS. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.
3. NEW WALL MOUNTED TOUCH PAD CONTROL SYSTEM FOR 6 EXISTING OVERHEAD FOLDING BACKBOARDS.

EQUIPMENT SCHEDULE - GENERAL

	ITEM NO.	ITEM DESCRIPTION	DESIGN NO.	SIZE W x H x D	REMARKS
GENERAL	G2	WALL PADS	SEE SPEC	-	1,2

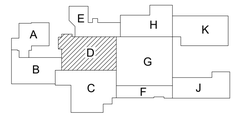
EQUIPMENT REMARKS

1. COLOR SELECTED BY OWNER.
2. COORDINATE WITH EXISTING CONDITIONS AND EXISTING LOCATIONS.



UNIT D
EQUIPMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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SHEET
UNIT D
EQUIPMENT
FLOOR PLAN

PROJECT NUMBER
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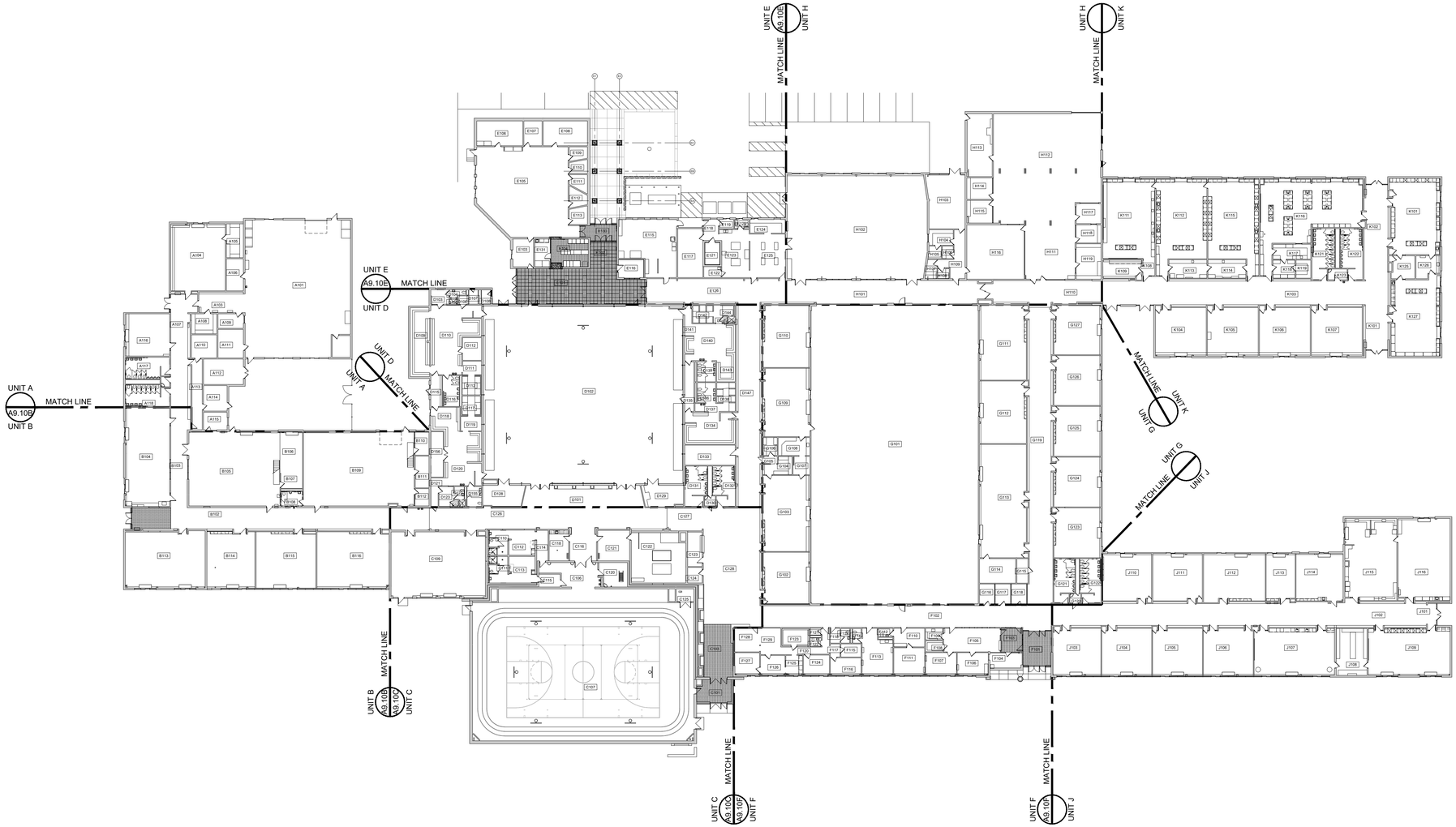
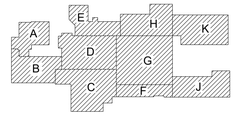
SHEET NUMBER
A8.10D

2024-053 CHESANING HIGH SCHOOL



COMPOSITE
FINISH FLOOR PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN



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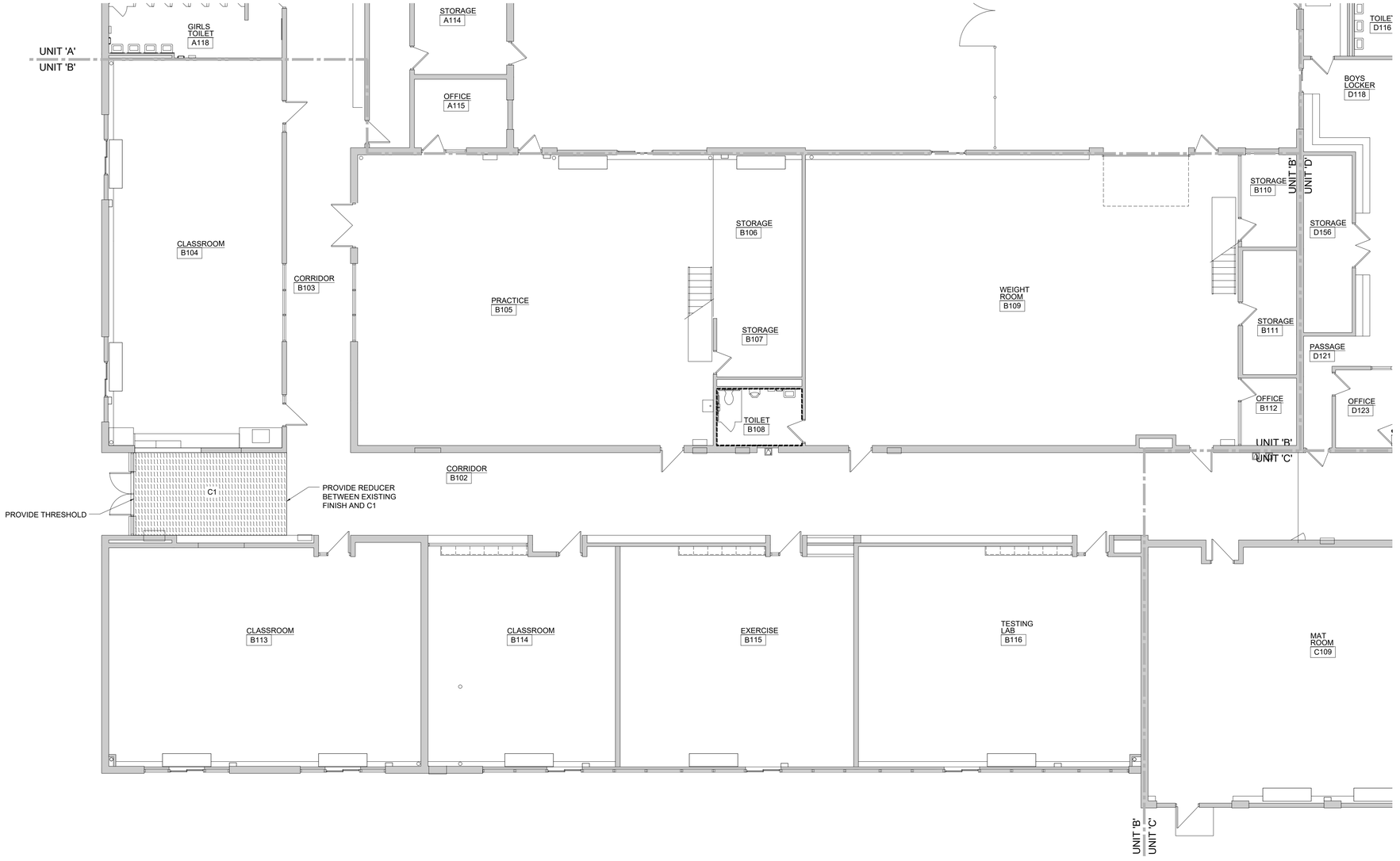
SHEET
COMPOSITE
FINISH FLOOR PLAN

PROJECT NUMBER
2024-053

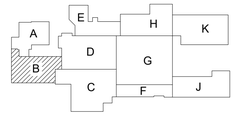
SHEET NUMBER
A9.10

2024-53 CHESANING HIGH SCHOOL



UNIT B
FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT

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SHEET

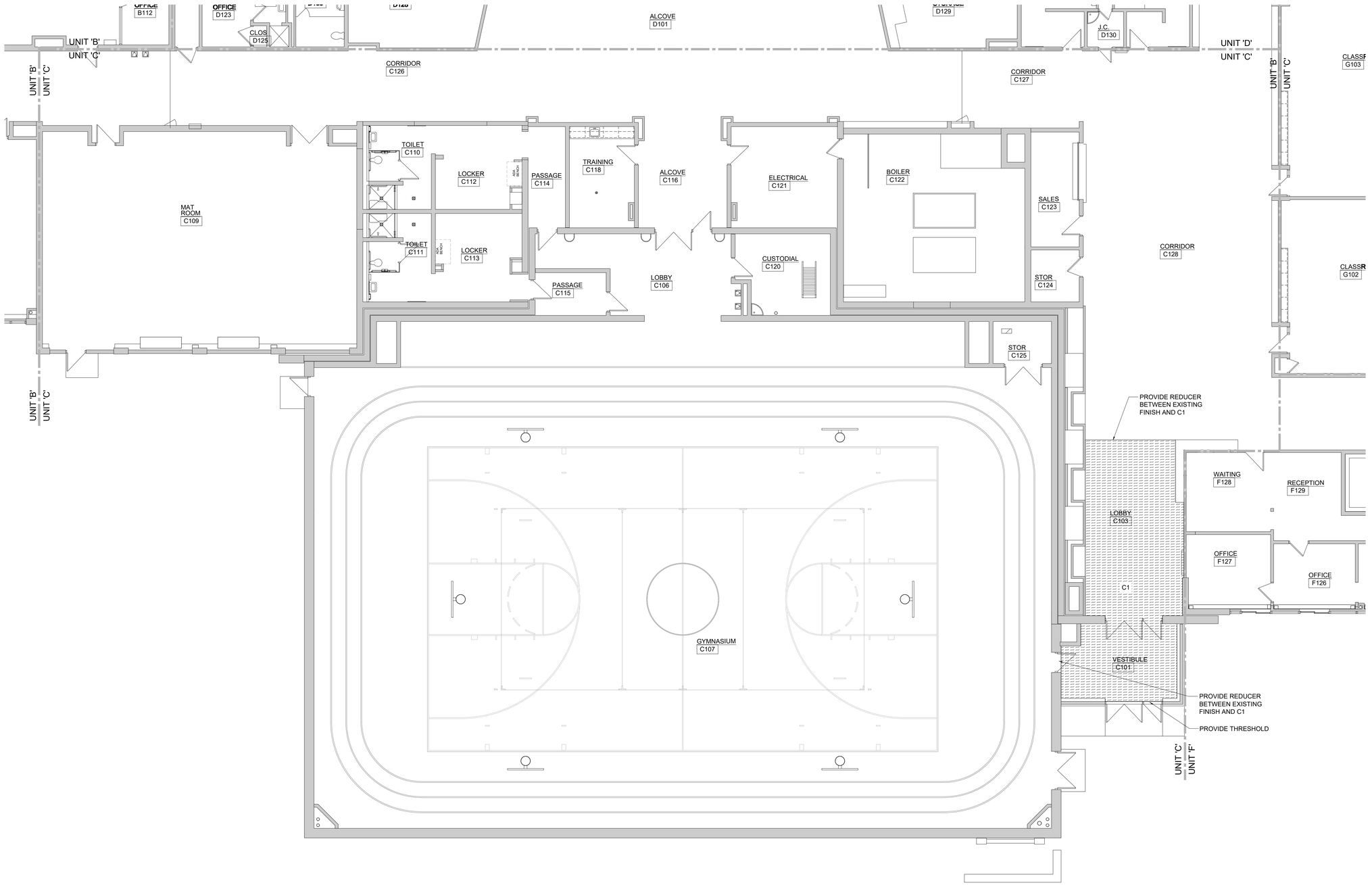
UNIT B
FINISH FLOOR PLAN

PROJECT NUMBER

2024-053

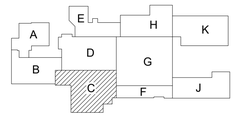
SHEET NUMBER

A9.10B



UNIT C
FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT

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SHEET

UNIT C
FINISH FLOOR PLAN

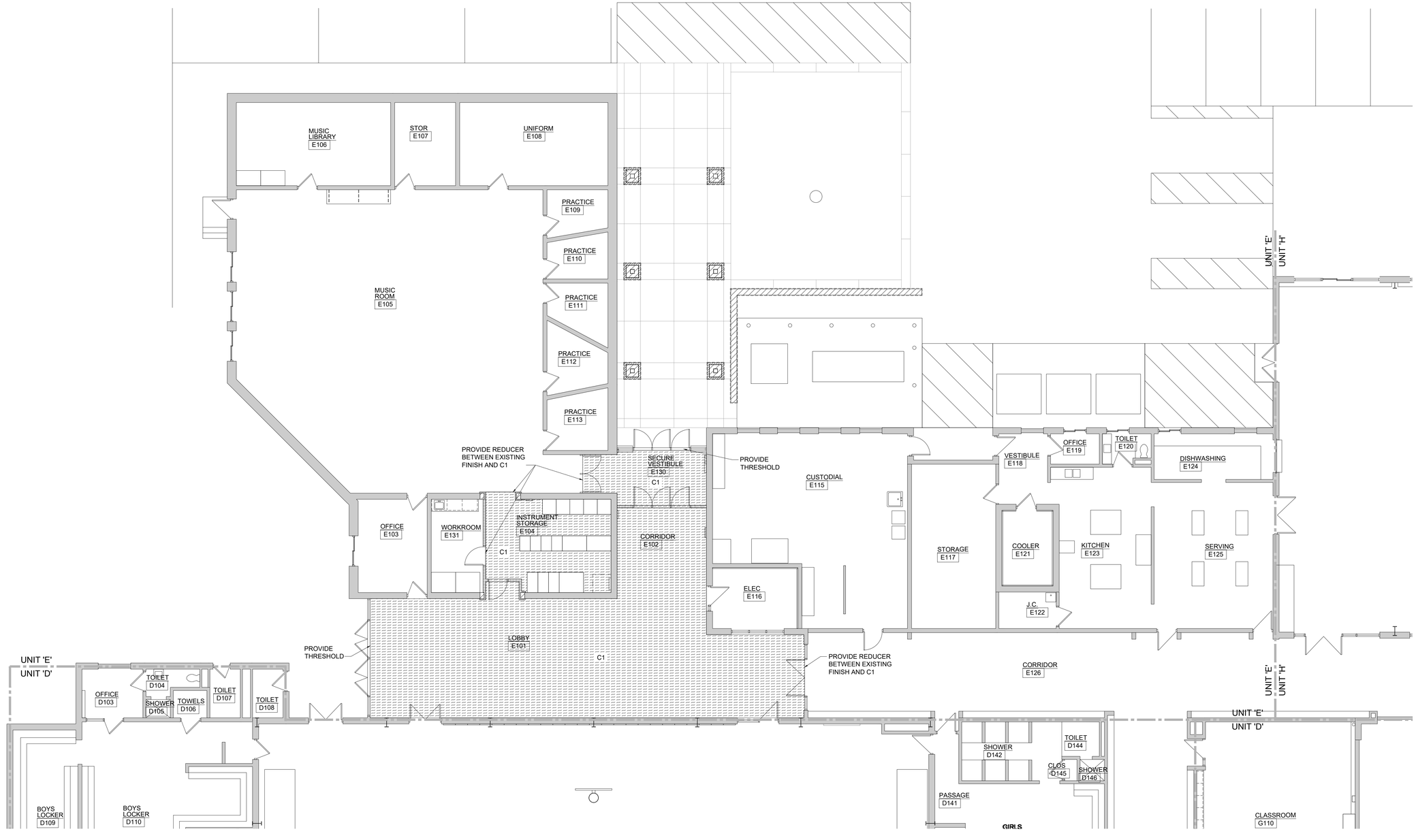
PROJECT NUMBER

2024-053

SHEET NUMBER

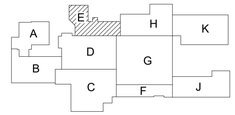
A9.10C

2024-053 CHESANING HIGH SCHOOL



UNIT E
FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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SHEET
UNIT E
FINISH FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
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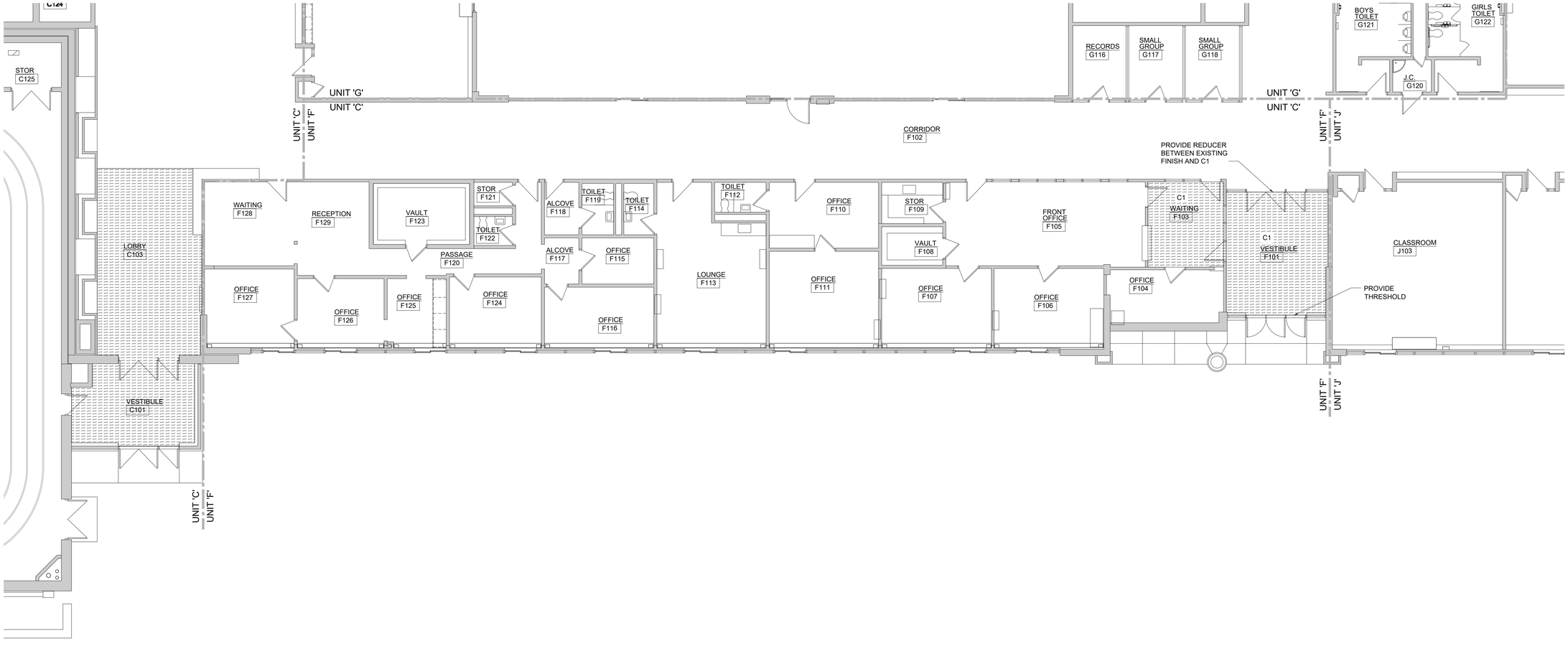
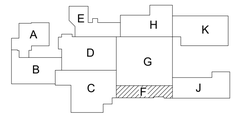
2024-053 CHESANING HIGH SCHOOL



UNIT F
FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT
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Chesaning High School
Remodel

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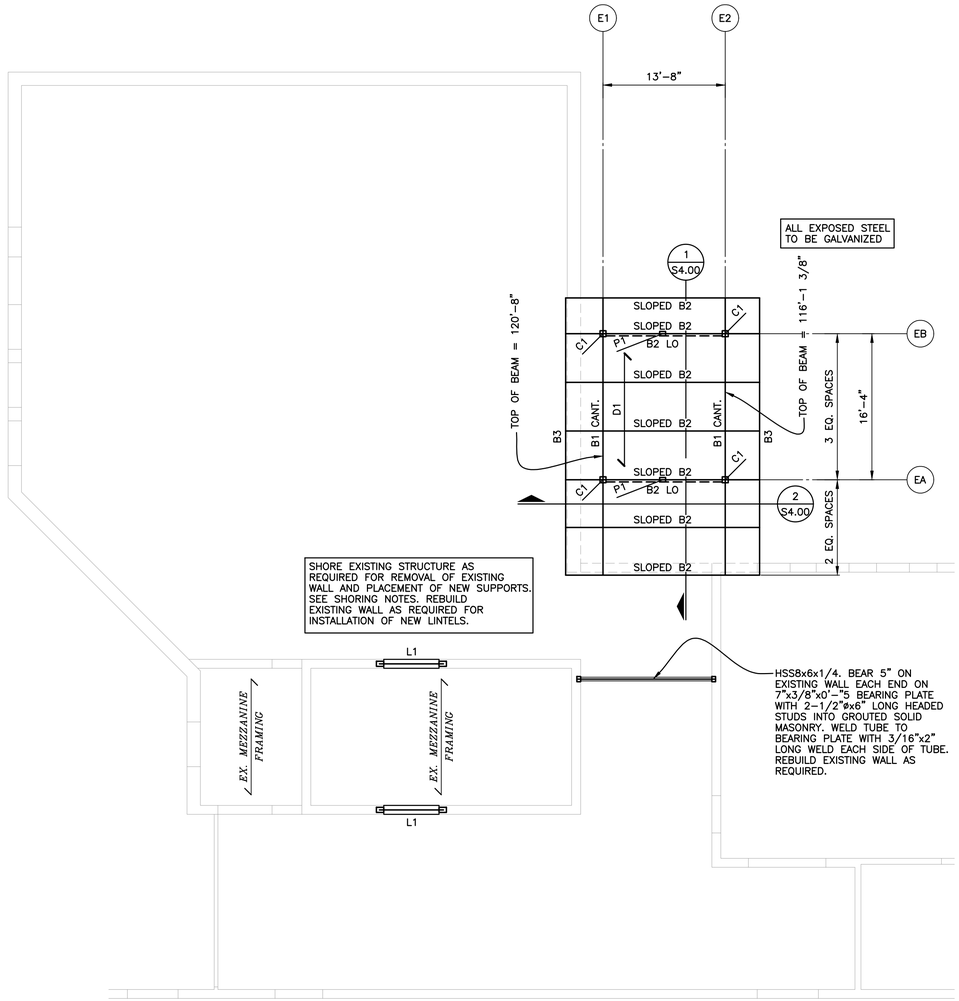
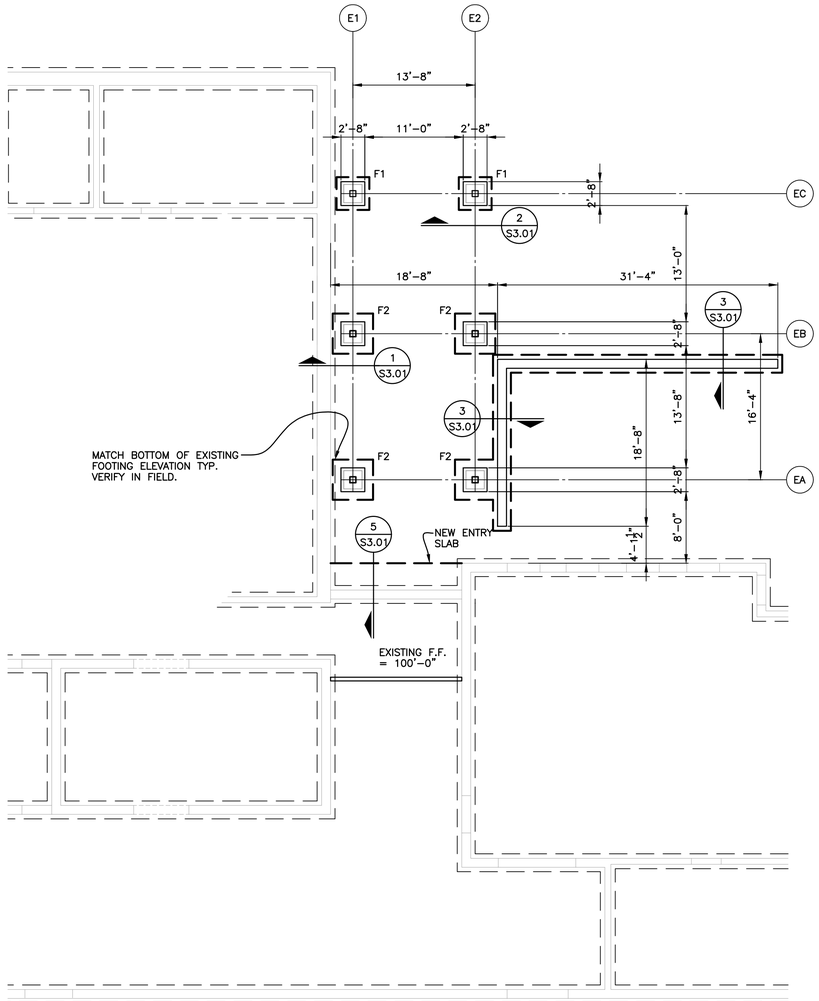
SHEET
UNIT F
FINISH FLOOR PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
A9.10F

2024-053 CHESANING HIGH SCHOOL





UNIT E
PARTIAL ROOF FRAMING PLAN

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

D1: 1 1/2-22 GA. GALVANIZED WIDE RIB METAL DECK (3 SPAN MINIMUM)

B1: GALVANIZED HSS16x8x5/16

B2: GALVANIZED HSS8x6x3/16

B3: GALVANIZED HSS8x2x3/16

ALL TUBE TO TUBE CONNECTIONS TO BE WELDED ALL AROUND WITH 3/16" FILLET WELD. GRIND WELDS SMOOTH. REPAIR GALVANIZING WITH GALVANIZING REPAIR PAINT

C1: GALVANIZED HSS8x8x3/8 WITH 14"x3/4"X1'-2" BASE PLATE AND (4)3/4"ø x1'-4" GALVANIZED ANCHOR BOLTS

P1: GALVANIZED HSS8x6x3/16

L1: W8x18 + 5/16" PLATE, BEAR 10" ON EXISTING WALL EACH END ON 7"x3/8"x0'-10" BEARING PLATE WITH (2)1/2"ø x6" LONG HEADED STUDS ON 3 COURSES GROUTED SOLID.

UNIT E
PARTIAL FOUNDATION PLAN

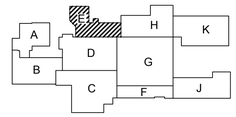
SCALE: 1/8" = 1'-0"

TOP OF FOOTING ELEVATION = 98'-8"

BOTTOM OF EXTERIOR FOOTING = 96'-0"

F1: 3'-4"x3'-4"x 32" THICK FOOTING. NO REINFORCING SEE DETAIL 2/S3.01

F2: 4'-6"x4'-6"x32" THICK FOOTING WITH 5-#5 EACH WAY TOP & BOTTOM. SEE DETAIL 1/S3.01



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PROJECT

Chesaning Union School
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Remodel

Chesaning,
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SHEET

UNIT E
FOUNDATION PLAN
AND
ROOF FRAMING PLAN

PROJECT NUMBER

2024-053

SHEET NUMBER

S2.10E

JOIST OR BEAM REINFORCEMENT

1. GENERAL: FABRICATE MATERIAL IN LENGTHS MANAGEABLE AT THE SITE SPLICES OF MATERIAL SHALL BE MADE WITH FULL PENETRATION WELDS OR OTHER AS REVIEWED IN ADVANCE BY THE ENGINEER OF RECORD.

2. COORDINATE MATERIAL LENGTHS WITH ACCESS LOGISTICS, HEADROOM OR OTHER ACCESS LIMITATIONS MAY REQUIRE SUBSTITUTIONS OF PLATES OR SHAPES WITH OTHER PLATES OR SHAPES OF NOMINALLY EQUAL WEIGHT. SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO FABRICATION.

   2.1 FIELD VERIFY WEB AND CHORD CONFIGURATIONS OF EXISTING JOISTS TO BE REINFORCED. CONFIGURATIONS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY WHICH INDICATE ONLY THE EXTENT OF WEB AND CHORD REINFORCEMENT. OTHER CONFIGURATIONS MAY EXIST, I.E. PANEL DIMENSIONS MAY BE DIFFERENT AND THERE MAY BE MORE VERTICALS AND DIAGONALS THAN SHOWN ON THE DRAWINGS, BUT NONETHELESS ALL WEB MEMBERS WITHIN THE ZONE INDICATED ARE TO BE REINFORCED.

3. THE SHAPE OF THE EXISTING CHORDS OR WEB MEMBERS MAY REQUIRE SUBSTITUTIONS OF PLATES OR SHAPES WITH OTHER PLATES OR SHAPES OF NOMINALLY EQUAL WEIGHT. SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO FABRICATION.

4. INSTALLING JOIST AND BEAM REINFORCEMENT:

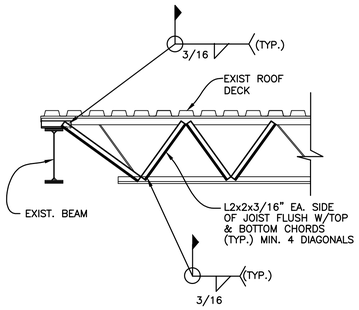
   4.1 INSTALL REINFORCEMENT MATERIAL TO COMPLY WITH STRENGTHENING REQUIREMENTS INDICATED ON THE DESIGN DRAWINGS.

      4.1.1 PRIOR TO WELDING NEW MATERIAL TO EXISTING SURFACES, THOROUGHLY CLEAN ALL SURFACES TO REMOVE RUST, PAINT, DIRT, MILL SCALE OR OTHER FOREIGN MATTER IN THE WELD AREA

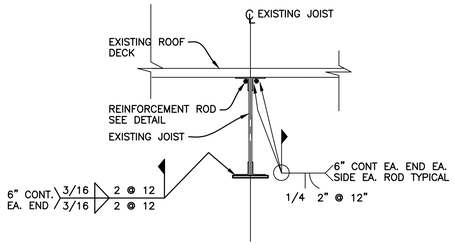
      4.1.2 ALL FIELD WELDS SHALL BE CLEANED OF SLAG AND SCALE AND INSPECTED BY THE SITE QUALITY ASSURANCE INSPECTOR.

      4.1.3 PRIME PAINT WELDS AFTER WELDING PASSES INSPECTION WITH MINIMUM TWO COATS OF ZINC RICH RUST INHIBITIVE PAINT.

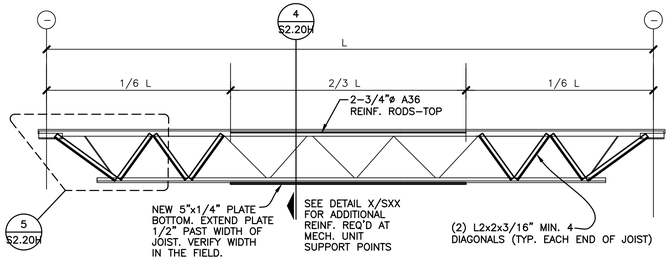
5. PRIOR TO REINFORCING OF JOIST ALL SNOW AND ICE LOADS SHALL BE REMOVED FROM THE ROOF IF JOIST ARE BEING REINFORCED FOR NEW EQUIPMENT. JOIST ARE TO BE REINFORCED PRIOR TO ADDING NEW EQUIPMENT.



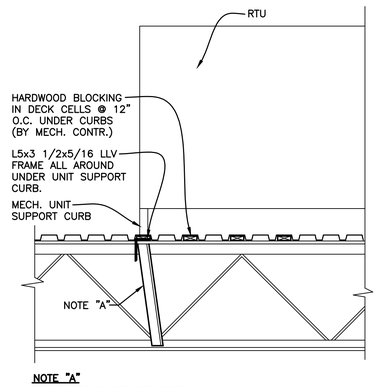
5 S2.20H JOIST END REINFORCING
SCALE : NONE

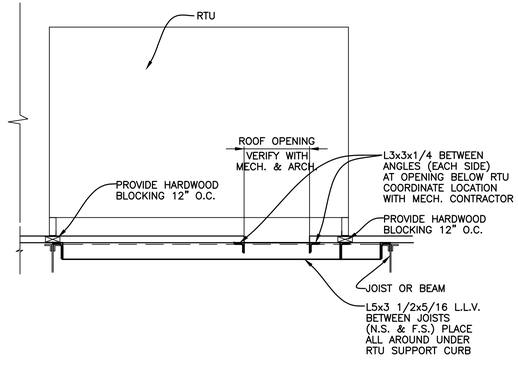


4 S2.20H JOIST REINFORCEMENT
SCALE : NONE



3 S2.20H EXISTING JOIST TO BE REINFORCED
SCALE : NONE



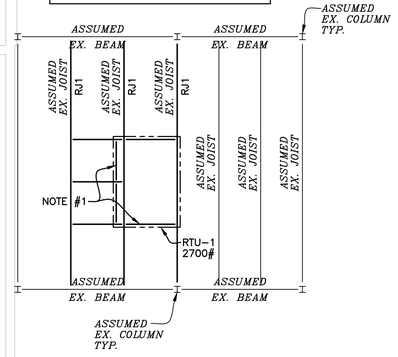


NOTE "A"
REINF. TOP CHORD OF JOIST W/ (2)L2x2x3/16" WELDED TO TOP CHORD OF JOIST AT LOAD AND TO BOTTOM CHORD AT PANEL POINT WHEN LOAD IS FARTHER THAN 6" FROM TOP CHORD PANEL POINT

2 S2.20H TYPICAL JOIST REINFORCING DETAIL AT NEW MECHANICAL UNIT
SCALE : NONE FOR ADDED LOADS

1 S2.20H TYPICAL DETAIL AT MECHANICAL UNIT SUPPORT
SCALE : 3/4" = 1'-0"

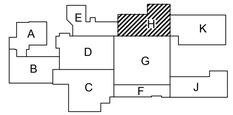
EXISTING FRAMING IN THIS AREA IS UNKNOWN. JOIST REINFORCEMENT IS INDICATED FOR CONCEPT PURPOSES ONLY. FIELD VISIT IS NECESSARY BY STRUCTURAL ENGINEER TO VERIFY EXISTING FRAMING CONDITIONS.
DO NOT INSTALL UNTIL FURTHER DIRECTION FROM STRUCTURAL ENGINEER



UNIT H
PARTIAL ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTE #1: PROVIDE L5x3 1/2x5/16 LLV ALL AROUND AT RTU SUPPORT CURB. VERIFY LOCATION WITH MECH. CONTRACTOR. SEE DETAILS 1 &2/S2.20H

RJ1: EXISTING JOIST TO BE REINFORCED. SEE DETAILS 3, 4, & 5/S2.20H



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PROJECT
Chesaning Union School
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
UNIT H
PARTIAL ROOF
FRAMING PLAN

PROJECT NUMBER
2024-053

SHEET NUMBER
S2.20H

G E N E R A L N O T E S

GENERAL CONDITIONS

1. IF ANY GENERAL NOTE CONFLICTS WITH ANY DETAIL OR NOTE ON THE PLANS OR IN THE SPECIFICATIONS, THE STRICTEST PROVISION SHALL GOVERN.

2. THE STRUCTURAL DRAWINGS ARE FOR THE PLACEMENT AND SIZE OF STRUCTURAL COMPONENTS ONLY. O.S.H.A., LOCAL GOVERNMENT CODES AND SAFETY CODE REQUIREMENTS SHALL BE ADHERED TO BY THE CONTRACTOR.

3. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES PROVIDING TEMPORARY BRACING, SHORING, GUYS OR TIE- DOWNS. THESE TEMPORARY SUPPORTS WILL REMAIN IN PLACE UNTIL ALL STRUCTURAL COMPONENTS ARE IN PLACE AND COMPLETED.

4. USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY THE CONTRACTOR IS STRICTLY PROHIBITED. DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR BUILDING LAYOUT AND LOCATION. SEE ARCHITECTURAL DRAWINGS AND SITE PLAN FOR THESE PURPOSES.

5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AT THE RATE OF NO MORE THAN 80 DRAWINGS PER WEEK. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWINGS PRIOR TO SUBMITTAL. THE CONTRACTOR SHALL CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL AND IS SOLELY RESPONSIBLE FOR ERRORS & OMISSION IN THE PREPARATION OF SHOP DRAWINGS TO CONFORM TO THE DESIGN DRAWINGS. SUBMIT ELECTRONIC SHOP DRAWINGS FOR ENGINEER REVIEW.

6. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS AGAINST PURCHASED MANUFACTURER'S CERTIFIED EQUIPMENT DRAWINGS. DIMENSIONS THAT DEPEND UPON SPECIFIC EQUIPMENT SUCH AS ELEVATOR OPENINGS, MECHANICAL EQUIPMENT SUPPORTS, ETC. SHALL BE COORDINATED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. SUCH DIMENSIONS SHALL BE PROVIDED ON THE SHOP DRAWINGS BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER.

7. PRE-MANUFACTURED ITEMS SUCH AS CANOPIES, AWNINGS, SUNSHADES, ETC. SHALL BE DESIGNED BY SUPPLIER. SUPPLIER SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS BY A REGISTERED ENGINEER IN THE STATE OF MICHIGAN FOR RECORD TO ARCHITECT. SHOP DRAWINGS SHALL INDICATE ALL DESIGN LOADS AND INCLUDE ALL CONNECTIONS AND MATERIAL NECESSARY FOR INSTALLATION OF PRE-MANUFACTURED ITEMS.

EXISTING CONDITIONS

1. VERIFY ALL EXISTING ASSUMED DIMENSIONS AND CONDITIONS (I.E. EXISTING MATERIALS; FRAMING MEMBER SIZES AND LOCATIONS; METHODS OF CONSTRUCTION; ETC.) AT THE SITE PRIOR TO CONSTRUCTION AND FABRICATION. IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT BEFORE PROCEEDING WITH WORK.

FOUNDATIONS

1. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL WITH AN ASSUMED SAFE BEARING CAPACITY OF 3000 P.S.F. IF SOIL OF THIS CAPACITY IS NOT FOUND AT THE ELEVATIONS INDICATED, FOOTINGS SHALL BE ENLARGED OR LOWERED AT THE DIRECTION OF THE ARCHITECT. VERIFY FOUNDATION SOIL BEARING PRESSURE IN FIELD BY SOILS ENGINEER.

2. WHERE NEW FOOTINGS ABUT EXISTING FOUNDATIONS, CAREFULLY HAND EXCAVATE AND PLACE BOTTOM OF NEW FOOTING AT THE SAME ELEVATION AS THE EXISTING.

3. PROVIDE NECESSARY SHEETING SHORING BRACING, ETC. AS REQUIRED DURING EXCAVATIONS TO PROTECT SIDES OF EXCAVATIONS.

4. COMPLY FULLY WITH REQUIREMENTS OF OSHA AND OTHER REGULATORY AGENCIES FOR SAFETY PROVISIONS.

CONCRETE

1. MINIMUM CONCRETE STRENGTH TO BE 3000 P.S.I. @ 28 DAYS, U.O.N.; SLABS SHALL BE 3500 P.S.I. MIN. U.O.N. EXPOSED CONCRETE SHALL BE 4000 PSI WITH 6% + 1% ENTRAINED AIR U.O.N.

   A. PROVIDE 3000 P.S.I. 28-DAY COMPRESSIVE STRENGTH; W/C RATIO, 0.58 MAXIMUM (NON-AIR-ENTRAINED), 5.0 BAG CEMENT MIX FOR ALL FOUNDATION WORK UNLESS NOTED OTHERWISE.

   B. PROVIDE 3500 P.S.I. 28-DAY COMPRESSIVE STRENGTH; W/C RATIO, 0.53 MAXIMUM (NON-AIR-ENTRAINED), 5.5 BAG CEMENT MIX FOR ALL INTERIOR SLABS UNLESS NOTED OTHERWISE.

   C. PROVIDE 4000 P.S.I. 28-DAY COMPRESSIVE STRENGTH; W/C RATIO, 0.45 MAXIMUM (AIR-ENTRAINED), 6.0 BAG CEMENT MIX FOR ALL EXTERIOR CONCRETE UNLESS NOTED OTHERWISE.

2. FLYASH OR GROUND GRANULATED BLAST FURNACE SLAG MAY BE SUBSTITUTED UP TO 25% MAXIMUM OF MIX DESIGN CEMENT CONTENT IN NON-EXPOSED CONCRETE MIXES. DO NOT USE IN EXPOSED MIX DESIGNS.

3. ALL CONCRETE WORK AND PLACEMENT SHALL CONFORM TO THE LATEST RECOMMENDATIONS OF A.C.I.

4. ALL REINFORCING BARS, DOWELS AND TIES SHALL CONFORM TO A.S.T.M. A615 GRADE 60. REINFORCING STEEL SHALL BE CONTINUOUS AND SHALL HAVE MINIMUM 36 BAR DIAMETER LAP AND BE FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. - 315 LATEST EDITION.

5. REINFORCED CONCRETE WALL FOOTINGS SHALL HAVE CORNER BARS AT ALL INTERSECTIONS OF THE SAME SIZE AND SPACING AS THE MAIN HORIZONTAL REINFORCING.

6. ALL SLABS ON GROUND SHALL BE 4" THICK AND HAVE 6" X 6" W1.4 X W1.4 WELDED WIRE FABRIC IN THE TOP 1/3 OF THE SLAB, UNLESS OTHERWISE NOTED.

7. CONCRETE CONTRACTOR SHALL INCLUDE IN HIS COST ADDITIONAL CONCRETE QUANTITY AS REQUIRED TO COMPENSATE FOR DEFLECTIONS OF METAL DECK AND UNSHORED COMPOSITE BEAMS AND TO PROVIDE A LEVEL CONCRETE SURFACE.

8. FIELD AND SHOP TESTING OF CONCRETE WORK SHALL INCLUDE INSPECTION OF REINFORCING STEEL PLACEMENT, REBARS, NUMBER, LOCATION, AND LAP SPLICE LENGTH.

9. PROVIDE DOWELS INTO FOUNDATION TO MATCH SIZE AND SPACING OF VERTICAL REINFORCEMENT AT ALL COLUMNS AND WALLS, UNLESS OTHERWISE NOTED.

10. UNLESS OTHERWISE SHOWN, PROVIDE THE FOLLOWING COVER FOR REINFORCING STEEL:

A. UNFORMED SURFACES IN CONTACT WITH EARTH	-3 IN.
B. UNFORMED SURFACES OVER MOISTURE BARRIERS	-2 IN.
C. FORMED SURFACES EXPOSED TO EARTH OR WEATHER OR WATER PROOFING/DAMP PROOFING	
#6 OR LARGER	-2 IN.
#5 OR SMALLER	-1 1/2 IN.
D. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER	
SLABS AND WALLS	-3/4 IN.
COLUMNS	-1 1/2 IN.
BEAMS AND GIRDERS	-1 1/2 IN.

MASONRY

1. THE MASONRY PORTIONS OF THIS STRUCTURE ARE DESIGNED ACCORDING TO THE LATEST ALLOWABLE STRESS DESIGN PROVISIONS OF THE MASONRY STANDARDS JOINT COMMITTEE (MSJC) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 602) INCLUDING SECTIONS 2106 AND 2107 OF CHAPTER 21 IN THE MICHIGAN BUILDING CODE. MASONRY COMPONENTS HAVE BEEN DESIGNED ACCORDING TO THE PROVISIONS FOR SEISMIC DESIGN CATEGORY B.

2. ALL STRUCTURAL MASONRY IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST MASONRY STANDARDS JOINT COMMITTEE (MSJC) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402/ACI 530/ASCE 5) AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602/ACI 530.1/ASCE 6) MASONRY SUBMITTALS ARE REQUIRED BY ACI 530.1/ASCE 6/TMS 602. SECTION 1.5 MASONRY TESTING AND INSPECTIONS ARE REQUIRED BY ACI 530.1/ASCE 6/TMS 602 SECTION 1.6, TABLE 5.

3. ALL STRUCTURAL MASONRY HAS BEEN ENGINEERED IN ACCORDANCE WITH CHAPTER 2 ALLOWABLE STRENGTH DESIGN. COMPRESSION STRENGTH SHALL BE DETERMINED ACCORDING TO THE UNIT STRENGTH METHOD FOR CONCRETE MASONRY MSJC SECTION 1.4. B.2.b.

4. ALL BLOCK SHALL CONFORM TO ASTM C90, TYPE I, WITH A MINIMUM UNIT NET AREA COMPRESSIVE STRENGTH OF 2800 PSI.

5. MASONRY COMPRESSIVE STRENGTH f'm = 2000 PSI MINIMUM.

6. MORTAR SHALL BE TYPE "S" (1800 PSI) CONFORMING TO ASTM C-270. USE MORTAR CEMENT WHERE EXTERIOR WALLS ARE UNREINFORCED.

7. PROVIDE HORIZONTAL WIRE TYPE REINFORCING WITH 9 GAUGE SIDE AND CROSS MEMBERS IN EVERY SECOND COURSE (16" O.C.), IN ALL MASONRY WALLS. WALLS WITH VERTICAL REINFORCING SHALL ONLY HAVE "LADDER" TYPE REINFORCING.

8. ALL REINFORCING BARS, DOWELS AND TIES SHALL CONFORM TO A.S.T.M. A615 GRADE 60. REINFORCING STEEL SHALL BE CONTINUOUS, FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. - 315 LATEST EDITION AND HAVE THE FOLLOWING MINIMUM LAP LENGTHS:

BAR SIZE	8" CMU	12" CMU
#3	18"	18"
#4	24"	24"
#5	30"	30"
#6	38"	36"
#7		42"
#8	PROVIDE MECH. SPLICE	

9. ALL MASONRY BEARING STEEL BEAMS AND LINTELS TO BEAR 8" MINIMUM ON 3 COURSES SOLID MASONRY, WITH 2-3/4" DIAMETER BOLTS EACH END, UNLESS OTHERWISE NOTED.

10. UNLESS OTHERWISE NOTED WHERE STEEL JOISTS BEAR ON MASONRY, PROVIDE A MINIMUM OF ONE COURSE OF SOLID BLOCK BELOW K-SERIES JOISTS AND A MINIMUM OF TWO COURSES SOLID BELOW LH SERIES JOISTS.

11. ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID.

12. MASONRY GROUT SHALL CONFORM TO ASTM C 476, WITH PEA GRAVEL AGGREGATE AND A MINIMUM STRENGTH OF 2000 PSI, BUT NOT LESS THAN SPECIFIED f'm.

13. UNLESS OTHERWISE NOTED, AT ALL MASONRY WALLS PROVIDE THE FOLLOWING LINTELS:

    8" WALLS

    (2) L4x3 1/2 x 5/16 LLV FOR OPENINGS UP TO 4'-0"
    (2) L5x3 1/2 x 5/16 LLV FOR OPENINGS UP TO 5'-4"
    W8x18 + 3/8" PLATE FOR OPENINGS UP TO 8'-0"
    W8x28 + 3/8" PLATE FOR OPENINGS UP TO 12'-4"

    12" WALLS:

    (3) L4x3- 1/2 x 5/16 LLV FOR OPENINGS UP TO 4'-0"
    (3) L5x3-1/2 x 5/16 LLV FOR OPENINGS UP TO 5'-4"
    W8x18 + 3/8" PLATE FOR OPENINGS UP TO 8'-0"
    W8x28 + 3/8" PLATE FOR OPENINGS UP TO 12'-4"

14. ALL DOUBLE ANGLE LINTELS SHALL BE WELDED BACK TO BACK WITH A MINIMUM 2 INCH STITCH WELD EVERY 8 INCHES.

15. UNLESS OTHERWISE NOTED, PROVIDE L5 X 3-1/2 X 5/16 L.L.V. LINTEL FOR EACH 4" OF MASONRY FOR SPANS UP TO 5'-4" MAX.

16. PROVIDE DOWELS INTO FOUNDATION TO MATCH SIZE AND SPACING OF VERTICAL REINFORCEMENT AT ALL COLUMNS AND WALLS, UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL

1. STEEL DESIGN, FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH THE LATEST A.I.S.C. MANUAL AND SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS. ALL WIDE FLANGE BEAMS AND COLUMNS SHALL CONFORM TO THE LATEST ASTM. SERIAL DESIGNATION A992, GR50; ALL MISCELLANEOUS STEEL PLATES, BARS, ANGLES, ETC., SHALL CONFORM TO ASTM A36; STEEL TUBING TO BE ASTM A500, GRADE B; STEEL PIPE ASTM. A-53, GRADE B. ANCHOR BOLTS TO BE ASTM F1554 GRADE 36 KSI MINIMUM UNLESS OTHERWISE NOTED

2. UNLESS OTHERWISE NOTED OR SHOWN, ALL BEAM CONNECTIONS TO HSS 5 X 5 OR SMALLER COLUMN,5"Ø OR SMALLER COLUMN, OR ANY TUBE COLUMN REGARDLESS OF SIZE WITH A WALL THICKNESS LESS THAN 3/8" SHALL BE MADE WITH THRU PLATES WELDED TO BOTH WALLS OF COLUMN.

3. ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST AWS CODE, E70XX ELECTRODES, WITH WELDING PERFORMED BY QUALIFIED WELDERS.

4. BOLTED CONNECTIONS SHALL BE MADE WITH A-325 OR A-490 BOLTS. ALL BOLTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS FOR "STRUCTURAL JOINTS USING A.S.T.M. A-325 OR A-490 BOLTS." TYPICAL BOLTED CONNECTIONS ARE "BEARING TYPE" UNLESS NOTED OTHERWISE.

5. DESIGN CONNECTIONS FOR MINIMUM ONE-HALF THE TOTAL ALLOWABLE UNIFORM LOAD PER A.I.S.C. BEAM LOAD TABLES, UNLESS OTHERWISE NOTED. (MIN. 2 BOLTS EACH CONNECTION).

6. THE STRUCTURAL STEEL CONTRACTOR SHALL INCLUDE (5) TONS OF ADDITIONAL STEEL, INCLUDING FABRICATION AND ERECTION, TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. TONNAGE COST IS TO BE BASE ON TONNAGE PRICE PER JOB. ADDITIONAL STEEL NOT USED IS TO BE CREDITED BACK TO THE OWNER. GENERAL CONTRACTOR IS TO COORDINATE WITH STEEL FABRICATOR AND OWNER.

7. THE DESIGN, CONFIGURATION & ERECTION SAFETY OF ALL STRUCTURAL STEEL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE STRUCTURAL STEEL FABRICATOR. REVIEW AND ACCEPTANCE OF THE SHOP DRAWINGS BY THE ENGINEER SHALL CONSTITUTE APPROVAL OF THE LOAD CARRYING ADEQUACY ONLY.

8. TYPE OF CONSTRUCTION PER ASCE A2.2 IS TYPE 2 "SIMPLE FRAMING" UNLESS NOTED OTHERWISE.

9. TEMPORARY ERECTION SEATS SHALL BE PROVIDED AS RECOMMENDED ON PAGE 3-59 OF THE A.I.S.C. PUBLICATION "ENGINEERING FOR STEEL CONSTRUCTION".

STRUCTURAL STEEL(CONT.)

10. METAL DECK SHALL CONFORM TO ALL REQUIREMENTS OF "BASIC DESIGN SPECIFICATION" AS ADOPTED BY THE STEEL DECK INSTITUTE (S.D.I.). METAL ROOF DECK SHALL BE WIDE RIB WITH NESTING SIDE SEAMS OF DEPTH AND GAGE INDICATED ON THE DRAWINGS. DECK SHALL BE WELDED TO ALL SUPPORTING STEEL WITH PUDDLE WELDS (5/8" DIAMETER MINIMUM), AT 12" ON CENTER MAXIMUM SPACING AND 6" O/C (ALL FLUTES) AT END LAP SUPPORT POINTS AND BUILDING PERIMETER ATTACHMENTS. SIDE LAP CONNECTIONS SHALL BE MADE AT MAXIMUM 3'-0" ON CENTER.(AT MIDPOINT OF SPAN FOR SPAN LESS THAN 6'-0" AT THIRD POINTS OF SPAN FOR SPANS GREATER THAN 6'-0") WITH #10 TEK SCREW MIN. REFER TO SPECIFICATIONS FOR ADDITIONAL ERECTION PROCEDURES.

11. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ANGLES, PLATES, BARS, CLIPS, ETC., ATTACHED TO STRUCTURAL STEEL.

12. UNLESS OTHERWISE NOTED, ALL ROOF OPENINGS SHALL BE FRAMED WITH L 5 X 3-1/2 X 5/16 L.L.V. VERIFY EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH CONTRACTOR INVOLVED.

13. THE CONTRACTOR SHALL FURNISH ALL ACCESSORIES INCLUDING CLOSURES, "Z" CLOSURES, COLUMN CLOSURES, SCREED ANGLES AND GIRDER FILLERS AS REQUIRED.

14. NO LOADS SHALL BE PERMITTED TO BE HUNG FROM ANY ROOF DECK. ALL HANGERS FOR CEILINGS, DUCTWORK, ELECTRICAL CONDUIT, PIPING, ETC., SHALL BE HUNG DIRECTLY FROM STRUCTURAL STEEL WORK OR SUPPLEMENTARY MEMBERS.

15. MASONRY AND BRICK LINTELS SHALL BE GALVANIZED G90 PER ASTM A123.

16. PROVIDE L4X4X1/4 SEATS AT COLUMN WEBS WHERE REQUIRED FOR SUPPORT OF ROOF AND FLOOR DECKS. PROVIDE ANGLE OUTRIGGER FROM EXTERIOR COLUMNS FOR SLAB AND ROOF EDGE PLATE SUPPORT.

17. ALL WIDE FLANGE LINTELS TO HAVE MINIMUM 7"x3/8"xO'-7" BEARING PLATE, ALL WIDE FLANGE FLOOR OR ROOF BEAMS TO HAVE MINIMUM 7"x3/8"xO'-7" BEARING PLATE UNLESS OTHERWISE NOTED

SHORING

1. SHORE STRUCTURE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY.

2. ALL SHORING, UNDERPINNING, ETC., SHALL BE PERFORMED BY EXPERIENCED CONTRACTORS.

3. SHORE, UNDERPIN, ETC., ALL QUESTIONABLE AREAS PRIOR TO REMOVAL OF ANY STRUCTURAL SUPPORT TO INSURE STRUCTURAL INTEGRITY.

4. MAINTAIN SHORING UNTIL NEW PERMANENT STRUCTURE IS IN PLACE AND SECURE TO MAINTAIN STRUCTURAL INTEGRITY.

5. REMOVE SHORING AFTER NEW WORK IS IN PLACE AND CONNECTED.

SPECIAL INSPECTION

1. WORK CONSTRUCTED SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY TO ENSURE COMPLIANCE WITH THE REQUIREMENTS SHOWN ON THE DRAWINGS. INSPECTIONS REQUIRED BY CHAPTER 17 OF THE MICHIGAN BUILDING CODE; LOCAL BUILDING DEPARTMENTS AND THE CONTRACT DOCUMENTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY. SITE VISITS BY THE DESIGN ENGINEER DO NOT CONSTITUTE OR REPLACE INSPECTION

2. THE FOLLOWING ITEMS SHALL BE INSPECTED IN ACCORDANCE WITH MBC 2015 SEC. 1704 & 1705 BY A CERTIFIED SPECIAL INSPECTOR UNLESS NOTED OTHERWISE IN REMARKS COLUMN. ALL INSPECTION SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED. ALL PRODUCTS WITH ICC APPROVALS SHALL BE INSTALLED PER THE APPROVAL AND PER MANUFACTURER'S RECOMMENDATIONS. FOR MATERIAL TESTING REQUIREMENTS, SEE SPECIFICATIONS AND/OR GENERAL NOTES. TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT.

   INSPECTION OF FABRICATOR'S (SEC. 1704.2.5) *

   FABRICATION AND IMPLEMENTATION PROCEDURES 1704.2.5.1

   *SPECIAL INSPECTION IS NOT REQUIRED FOR FABRICATOR SHOP IF CERTIFICATE OF APPROVAL SUBMITTED BY FABRICATOR'S INSPECTION AGENCY PER EXCEPTION 1704.2.5.1

TABLE 1705.2.2
REQUIRED VERIFICATION AND
INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	-	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	-	X	-	-
2. INSPECTION OF WELDING:				
a. COLD-FORMED STEEL DECK:				
1) FLOOR AND ROOF DECK WELDS.	-	X	-	AWS D1.3
b. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	X	-	AWS D1.4 ACI 318: SECTION 3.5.2
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	-	-	
3) SHEAR REINFORCEMENT.	X	-	-	
4) OTHER REINFORCING STEEL.	-	X	-	

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING	QC	QA	NOT APPLICABLE
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	-
MANUFACTURER CERTIFICATION FOR WELDING CONSUMABLES AVAILABLE	P	P	-
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	-
WELDER IDENTIFICATION SYSTEM[1]	O	O	-
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O	-
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	-
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O	-
CHECK WELDING EQUIPMENT	O	-	-

[1]THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

SPECIAL INSPECTION(CONT.)

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING TO WELDING	QC	QA	NOT APPLICABLE
USE OF QUALIFIED WELDERS	O	O	-
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O	-
NO WELDING OVER CRACKED TACK WELDS	O	O	-
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O	-
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH)	O	O	-
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS WEETS QUALITY REQUIREMENTS	O	O	-

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	QC	QA	NOT APPLICABLE
WELDS CLEANED	O	O	-
SIZE, LENGTH AND LOCATION OF WELDS	P	P	-
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P	-
ARC STRIKES	P	P	-
K-AREA[1]	P	P	-
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	-
REPAIR ACTIVITIES	P	P	-
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	-

[1]WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OF STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75MM) OF THE WELD.

TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA	NOT APPLICABLE
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	-
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	-
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O	-
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	-
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	-
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O	-
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTNER COMPONENTS	O	O	-

TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	QC	QA	NOT APPLICABLE
FASTENERS ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O	-
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O	-
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	-
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O	-

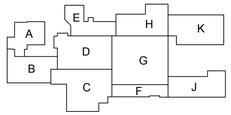
TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	QC	QA	NOT APPLICABLE
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	-

O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.

NOTE: IN ORDER TO ASSURE COMPLIANCE WITH MBC 2015, CHAPTER 17, PRIOR TO START OF CONSTRUCTION, GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE AHJ TO DETERMINE SPECIAL INSPECTION AND TESTING REQUIREMENTS.



ISSUE DATE	ISSUED FOR
02/05/2025	PLAN REVIEW DOCUMENTS
04/10/2025	BCC PLAN REVIEW COMMENTS
04/11/2025	BIDS

DRAWN RC
CHECKED TS
APPROVED TS

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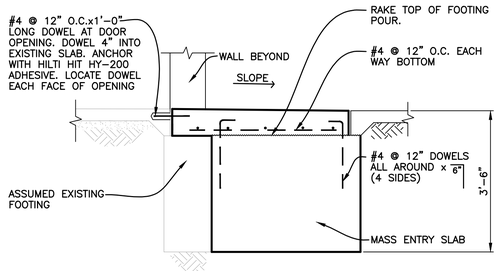
PROJECT
Chesaning Union School
Chesaning High School
Remodel

Chesaning,
Michigan

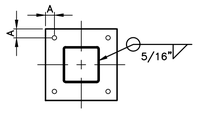
SHEET
GENERAL NOTES

PROJECT NUMBER
2024-053

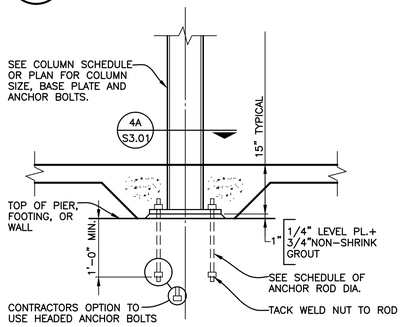
SHEET NUMBER
S3.00



5 S3.01 MASS ENTRANCE SLAB DETAIL AT EXISTING BUILDING
SCALE : 1/2" = 1'-0" (AT CONTRACTORS OPTION)

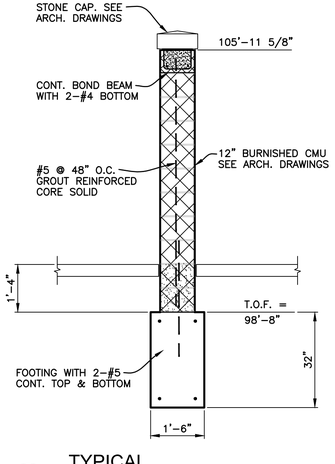


4A S3.01 TYPICAL BASE PLATES
SCALE : NONE

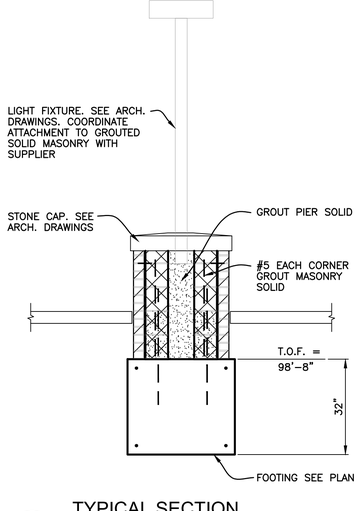


NOTE: ANCHOR RODS MUST BE INSTALLED WITHIN AISC TOLERANCES BEFORE PLACEMENT OF CONCRETE

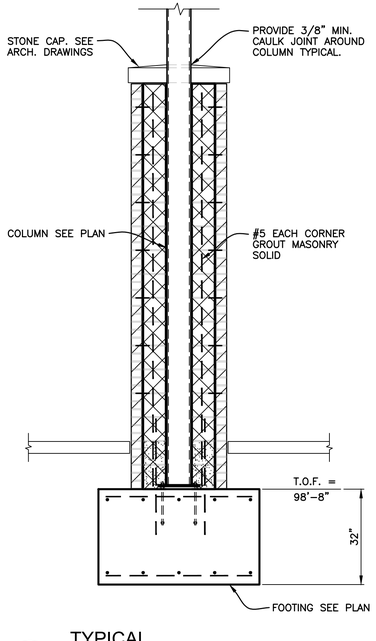
4 S3.01 TYPICAL COLUMN BASE DETAIL
SCALE : 3/4" = 1'-0"



3 S3.01 TYPICAL SECTION AT SCREEN WALL
SCALE : 1/2" = 1'-0"



2 S3.01 TYPICAL SECTION AT LIGHT FIXTURE FOOTING
SCALE : 1/2" = 1'-0"



1 S3.01 TYPICAL SECTION AT CANOPY COLUMN
SCALE : 1/2" = 1'-0"

SPECIAL INSPECTION(CONT.)

REQUIRED VERIFICATION
AND INSPECTION OF MASONRY CONSTRUCTION (LEVEL B QUALITY ASSURANCE)

MINIMUM TESTS
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT
VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE

MINIMUM INSPECTION					
INSPECTION TASK	FREQUENCY (a)			REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	NOT APPLICABLE	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X			ART. 1.5
2. AS MASONRY CONCSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.		X			ART. 2.1, 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.		X			ART. 3.3B
c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		X			ART. 2.4B, 2.4H
d. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.		X			ART. 3.4, 3.6A
e. PRESTRESSING TECHNIQUE.		X			ART. 3.6B
f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X(b)	X(c)			ART. 2.1C
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. GROUT SPACE		X			ART. 3.2D, 3.2F
b. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X			ART. 2.4, 3.4
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X			ART. 3.2E, 3.4, 3.6A
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.					
e. CONSTRUCTION OF MORTAR JOINTS.		X			ART. 3.3B
4. VERIFY DURING CONSTRUCTION:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X			ART. 3.3F
b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X		SEC. 1.16.4.3, 1.17.1	
c. WELDING OF REINFORCEMENT	X			SEC. 2.1.7.7.2, 3.3.3.4(c), 8.3.3.4(b).	
d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)		X			ART. 1.8C, 1.8D
e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X				ART. 3.6B
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X				ART. 3.5, 3.6C
g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X(b)	X(c)			ART. 3.3 B.8
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X			ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a). FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.

(b). REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF ACC MASONRY.

(c). REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF ACC MASONRY.

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	NOT APPLICABLE	REFERENCED STANDARD [a]	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	-	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:					
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	-	AWS D1.4 ACI 318: 26.6.4	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND	-	X	-		
c. INSPECT ALL OTHER WELDS.	x	-	-		
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	-	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.[a]					
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENTION LOADS.	X	-	-	ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	-	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	-	ACI 318: CH.19. 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	-	ASTM C172 ASTM C31 ACI 318: 26.4,26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	-	ACI 318: 26.5	1908.6, 1908.7, 2908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	-	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:					
a. APPLICATION OF PRESTRESSING FORCES; AND	X	-	-	ACI 318: 26.10	-
b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	-	ACI 318: CH. 26.8	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	-	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	-	ACI 318: 26.11.1.2(b)	-

FOR SI: 1 INCH = 25.4 MM

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

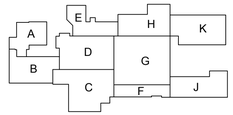
VERIFICATION AND INSPECTION TASK	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	NOT APPLICABLE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X	

DESIGN CRITERIA		
CODE: MBC 2015 THE STRUCTURE IS DESIGNED FOR THE FOLLOWING LIVE LOADS, IN ADDITION TO THE LATERAL LOADS, SUPER-IMPOSED DEAD LOADS, & SELF WEIGHT OF THE STRUCTURE. WHERE APPLICABLE LIVE LOADS ARE REDUCED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE. A. AMERICAN CONCRETE INSTITUTE BUILDING CODE (ACI-318). B. MANUAL OF STEEL CONSTRUCTION BY AMERICAN INSTITUTE OF STEEL CONSTRUCTION (LATEST EDITION). C. LATEST MASONRY STANDARDS JOINT COMMITTEE (MSJC) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402/ACI 530/ASCE 5) AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602/ACI 530.1/ASCE 6) D. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) STANDARDS AND SPECIFICATIONS. E. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) AS PUBLISHED BY AMERICAN FOREST AND PAPER ASSOCIATION.		
		CODE REFERENCE
BUILDING OCCUPANCY CATEGORY	III	MBC-Table 1604.5 ASCE Table 1.5-1

SNOW LOADS/ROOF LIVE LOADS		
SNOW CRITERIA		CODE REFERENCE
GROUND SNOW LOAD	Pg = 30 PSF	MBC FIG. 1608.2 ASCE Fig. 7-1
FLAT ROOF SNOW LOAD	Pf = 28 PSF (MINIMUM)	ASCE Sec. 7.3
EXPOSURE FACTOR	Ce = 1.0	ASCE Table 7-2
IMPORTANCE FACTOR	I = 1.1	ASCE Table 1.5-2
THERMAL FACTOR	Ct = 1.2	ASCE Table 7-3
ROOF LIVE LOADS	Lr = 20 PSF	ASCE Table 4-1
NOTE: SNOW LOADS ADJACENT VERTICAL PROJECTIONS, ON LOWER ROOFS, ADJACENT TO HIGH ROOFS, OR SLOPED ROOFS ARE INCREASED FOR THE EFFECT OR DRIFTING		

WIND LOADS		
WIND CRITERIA		CODE REFERENCE
BASIC WIND SPEED (3 SEC. GUST)	V = 120 MPH, V = 93 MPH ALLOWABLE	ASCE FIG. 26.5-1A, 26.5-1B, 26.5-1C
RISK CATEGORY	III	ASCE Table 1.5-1
EXPOSURE CATEGORY	B	ASCE Sec. 26.7.3
INTERNAL PRESSURE COEFFICIENT	± 0.18 (ENCLOSED)	ASCE TABLE 26.11-1
MWFRS ANALYSIS PROCEDURE	DIRECTIONAL PROCEDURE	ASCE CHAP. 27
COMPONENTS AND CLADDING	± 33 PSF MINIMUM ULTIMATE AND PER CODE REQUIREMENTS BASED ON ABOVE INFORMATION	ASCE Sec. 30.2.2

SEISMIC LOADS		
SEISMIC CRITERIA		CODE REFERENCE
SEISMIC RISK CATEGORY	III	ASCE Table 1.5-1
SEISMIC IMPORTANCE FACTOR	I = 1.25	ASCE Table 1.5-2
.0.2 SEC MAPPED SPECTRAL RESPONSE ACCELERATION (5% OF CRITICAL DAMPING) Ss	Ss = .069	ASCE Sec. 11.4
1.0 SEC MAPPED SPECTRAL RESPONSE ACCELERATION (5% OF CRITICAL DAMPING) S1	S1 = .041	ASCE Sec. 11.4
SHORT PERIOD SPECTRAL RESPONSE ACCELERATION	Sds = .074	ASCE Sec. 11.4-3
1.0 SEC PERIOD SPECTRAL RESPONSE ACCELERATION	Sd1 = .066	ASCE Sec. 11.4-4
SOIL SITE CLASS	D	ASCE Sec. 11.4.2
SEISMIC DESIGN CATEGORY	A	ASCE Sec. 11.6
SEISMIC FORCE RESISTING SYSTEM	STEEL SYSTEM NOT SPECIFICALLY DISGNED FOR SEISMIC RESISTANCE	ASCE Table 12.2-1
RESPONSE MODIFICATION FACTOR	R = 3.0	ASCE Table 12.2-1
DEFLECTION AMPLIFICATION FACTOR	Cd = 3.0	ASCE Table 12.2-1
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	ASCE Sec. 12.8



ISSUE DATE	ISSUED FOR
02/05/2025	PLAN REVIEW DOCUMENTS
04/10/2025	BCC PLAN REVIEW COMMENTS
04/11/2025	BIDS

DRAWN	RC
CHECKED	TS
APPROVED	TS

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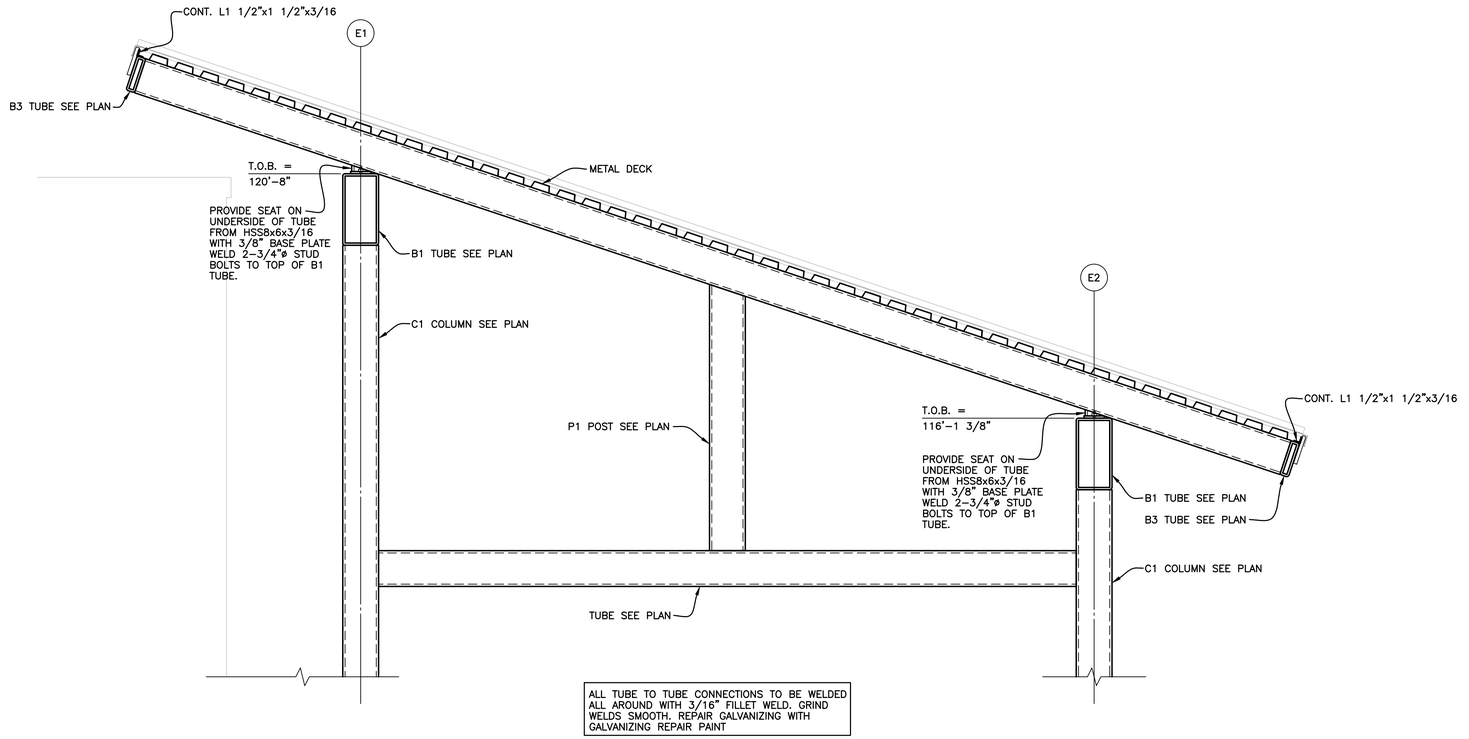
PROJECT
Chesaning Union School
Chesaning High School
Remodel

Chesaning,
Michigan

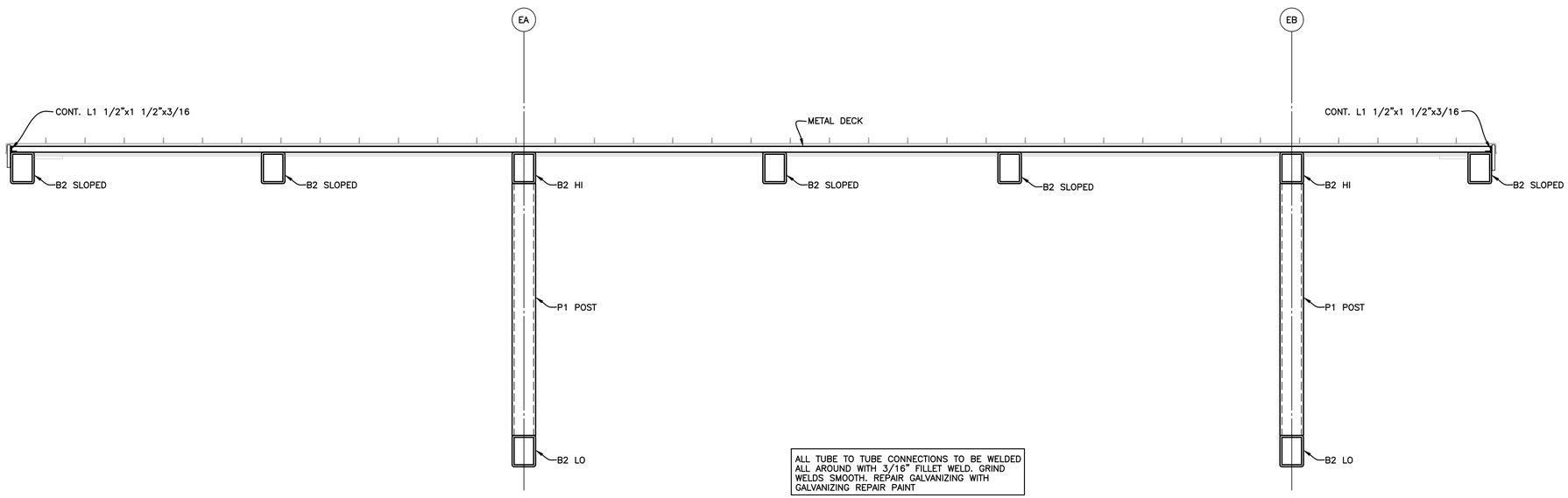
SHEET
GENERAL NOTES

PROJECT NUMBER
2024-053

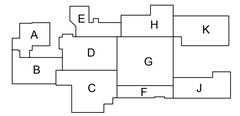
SHEET NUMBER
S3.01



2 S4.00 SECTION
SCALE : 3/4" = 1'-0"



1 S4.00 SECTION
SCALE : 3/4" = 1'-0"



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PROJECT
Chesaning Union School
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
DETAILS

PROJECT NUMBER
2024-053

SHEET NUMBER
S4.00

GENERAL PLAN SYMBOLS

- PLAN REVISION NUMBER
- DETAIL NUMBER ON SHEET
- SHEET NUMBER WHERE DETAIL IS PLACED
- KEYNOTE SYMBOL
- CONTINUATION SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- Room 1 — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	OA	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	RA	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RLA	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	SA	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CHWP	CHILLED WATER PUMP	HRU	HEAT RECOVERY UNIT
DBP	DOMESTIC WATER BOOSTER PUMP	PRV	POWER ROOF VENTILATOR
DC	DUCT MOUNTED COIL	RE	RETURN/EXHAUST FAN
DCP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
ECH	ELECTRIC CABINET HEATER	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

*** NOTE ***
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC SYMBOLS

24"x12"	DUCT SIZE (WIDTH X HEIGHT)
24"/12"	OVAL DUCT SIZE (WIDTH X HEIGHT DIAMETER)
18"Ø	ROUND DUCT SIZE (DIAMETER)
(E)	EXISTING DUCT TO REMAIN
	DUCT TO BE DEMOLISHED
SA-LP	SUPPLY AIR - LOW PRESSURE
SA-MP	SUPPLY AIR - MEDIUM PRESSURE
VA	VENTILATION AIR
OA	OUTDOOR AIR
RA	RETURN AIR
TA	TRANSFER AIR
BRA	BUILDING RELIEF AIR
EA	EXHAUST AIR
KEA	KITCHEN EXHAUST AIR
LEA	LAB EXHAUST AIR
ETS	ENV. TOBACCO SMOKE
FLUE	FLUE GAS VENT
CA	COMBUSTION AIR
	RECT. SUPPLY DUCT RISE / DROP
	ROUND SUPPLY DUCT RISE / DROP
	RECT. RETURN DUCT RISE / DROP
	ROUND RETURN DUCT RISE / DROP
	RECT. EXHAUST DUCT RISE / DROP
	ROUND EXHAUST DUCT RISE / DROP

GRILLES, REGISTERS, DIFFUSERS

SQUARE CEILING DIFFUSER — CD-XX 500 / 10"Ø/24x24 / 29 H6/9/17: TYPE (SEE SCHEDULE); AIRFLOW; NECK SIZE / MODULE SIZE; CATALOG THROW PERFORMANCE; THROW PATTERN; MAX NC RATING

ROUND CEILING DIFFUSER — CD-XX 100 / 6"Ø / TYP. X 4: AIRFLOW; NECK SIZE; TYPE COUNT FOR SPACE

SIDEWALL SUPPLY GRILLE — SG-XX 500 / 18"x10" / AFF:9'-0": AIRFLOW; NOMINAL DUCT SIZE; MOUNTING ELEVATION (CENTERLINE)

LINEAR DIFFUSER — LD-XX 200 / 8"Ø/2s/4'-0"L: AIRFLOW; NECK SIZE/ SLOT(S)/ ACTIVE LENGTH

SIDEWALL RETURN GRILLE — RG-XX 800 / 16"x16" / AFF:9'-0": AIRFLOW; NOMINAL DUCT SIZE; MOUNTING ELEVATION (CENTERLINE)

CEILING RETURN — RG-XX 500 / 12"x12"/24x24 / 25: AIRFLOW; NECK SIZE / MODULE SIZE; MAX NC RATING

MECHANICAL EQUIPMENT

RTU-XX	UNIT IDENTITY
10.0 ton	NOMINAL COOLING CAPACITY
RTU-XX	
180000 Btu/h	HEATING CAPACITY
180 CFH	GAS SUPPLY INPUT RATE
ET-XX / 379 lb	OPERATING WEIGHT
EF-XX / 500 CFM	DESIGN AIRFLOW RATE
TU-XX / 3.7 GPM	DESIGN WATER FLOW
AC-XX / AFF:7'-0"	BOTTOM OF EQUIPMENT HEIGHT
(E)AHU-XX	EXISTING TO REMAIN EQUIPMENT
(R)AHU-XX	EXISTING RELOCATED EQUIPMENT
	EBO - EQUIPMENT BY OTHERS (REFER TO OTHER DISCIPLINES)

DAMPER TYPES

- MANUAL DAMPER
- MOTORIZED DAMPER
- BACKDRAFT DAMPER
- SMOKE DAMPER
- FIRE DAMPER
- COMB. FIRE/SMOKE DAMPER

MECHANICAL PIPING SYMBOLS

2"	NOMINAL PIPE SIZE
	ABOVE GROUND PIPING
	BELOW GROUND PIPING
1/8" / 12" SLOPE	PIPE SLOPE (WHEN APPLICABLE)
(E)	EXISTING PIPE TO REMAIN
	PIPE TO BE DEMOLISHED
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAIN
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING WATER SUPPLY
G	NATURAL GAS
LP	PROPANE GAS
RL	REFRIGERANT-LIQUID
RS	REFRIGERANT-SUCTION
RD	REFRIGERANT-HOT GAS
STM	STEAM
CDR	CONDENSATE RETURN
	PIPE RISE / DROP

VALVE TYPES

2" SHUTOFF	BALL VALVE
2" BAL	BALANCING VALVE
2" BFV	BUTTERFLY VALVE
2" CHECK	CHECK VALVE
2" CHECK	ALTERNATE CHECK VALVE
3" CIRC	CIRCUIT SETTER
2" GATE	GATE VALVE
2" GLOBE	GLOBE VALVE
2" LOCK	LOCKED SHIELD VALVE
2" PRV	PRESSURE REDUCING VALVE
2" QUICK	QUICK OPENING VALVE
2" STRAIN	FLUID STRAINER
2" M-CNTRL	ELEC. CONTROL VALVE
4" 3-WAY CNTRL	3-WAY ELEC. VALVE
1" GAS-CNTRL	EMERGENCY GAS SHUTOFF
1" PLUG	PLUG VALVE
1" GAS COCK	GAS SHUTOFF COCK
1" REG	GAS REGULATOR

MECHANICAL CONTROL DEVICES AND SENSORS

AHU-1	UNIT IDENTITY
TS	TEMPERATURE SENSOR
TH	TEMP / HUMIDITY SENSOR
TC	TEMP / CO2 SENSOR
T	THERMOSTAT
H	HUMIDISTAT
HS	HUMIDITY SENSOR
CO2	CARBON DIOXIDE DETECTOR
CO	CARBON MONOXIDE DETECTOR
H2	HYDROGEN GAS DETECTOR
HZG	HAZARDOUS GAS DETECTOR
NO2	NITROGEN DIOXIDE DETECTOR
O2	OXYGEN GAS DETECTOR

PROJECT REQUIREMENTS

A REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

B THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

C THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

D WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

E COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

F THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

G FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

H LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

I ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES, INCLUDING THE 2019 CALIFORNIA BUILDING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, AND LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.

J ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

K LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

L PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

M PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

N MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

O ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

P REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.

Q PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

R FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

S INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

T LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

U INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

V THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

W PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

X CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

Y PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

GENERAL MECHANICAL NOTES

A SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.

B CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.

C REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.

D CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.

D ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.

E COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHTING.

F PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.

G PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.

H THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

I INSTALL, SUPPORT, AND BRACE ALL HVAC DUCTWORK AND ACCESSORIES PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSI/SMACNA 006-2006 AND "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" BY SMACNA, ANSI/SMACNA 001-2008.

J A COPY OF "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSI/SMACNA 006-2006 SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

K A COPY OF "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" BY SMACNA, ANSI/SMACNA 001-2008 SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

L ALL MECHANIC, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 161A.1.18 THROUGH 161A.1.26 AND ASCE 7-10 CHAPTERS 13, 29, AND 30.

M PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, AND 2019 CBC SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

N MAINTAIN MINIMUM SEPARATION BETWEEN OUTSIDE AIR INTAKES OR OTHER OPENINGS INTO THE BUILDING AND OTHER ELEMENTS AS REQUIRED AND AS FOLLOWS:

O PLUMBING VENTS AND EXHAUST OUTLETS:10'-0" SEPARATION

P ENVIRONMENTAL AIR OUTLETS AND DOMESTIC DRYER VENTS:3'-0" SEPARATION

Q EXCEPT AS OTHERWISE NOTED, ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL PER 2019 CALIFORNIA CHAPTER 6 AND "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSI/SMACNA 006-2006.

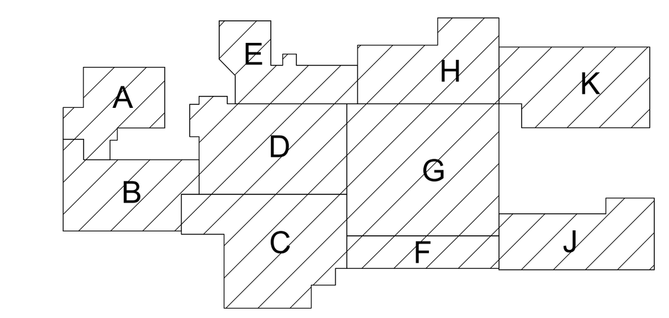
R IN HIGH-HUMIDITY AREAS, INCLUDING SHOWER ROOMS, ALL DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM.

S INSULATE ALL SUPPLY AND RETURN AIR DUCTWORK AS REQUIRED BY THE CALIFORNIA ENERGY CODE.

MECHANICAL SHEET INDEX

M000	MECHANICAL SYMBOLS AND GENERAL NOTES
M110	OVERALL FIRST FLOOR MECHANICAL PLAN
M110A	FIRST FLOOR MECHANICAL PLAN - UNIT A
M110B	FIRST FLOOR MECHANICAL PLAN - UNIT B
M110C	FIRST FLOOR MECHANICAL PLAN - UNIT C
M110D	FIRST FLOOR MECHANICAL PLAN - UNIT D
M110F	FIRST FLOOR MECHANICAL PLAN - UNIT F
M110G	FIRST FLOOR MECHANICAL PLAN - UNIT G
M110H	FIRST FLOOR MECHANICAL PLAN - UNIT H
M110J	FIRST FLOOR MECHANICAL PLAN - UNIT J
M110K	FIRST FLOOR MECHANICAL PLAN - UNIT K
M120	OVERALL ROOF SHEET METAL PLAN
M301	ENLARGED MECHANICAL PLANS, SCHEDULES & DETAILS
M302	MECHANICAL DETAILS
MD110	OVERALL FIRST FLOOR MECHANICAL DEMOLITION PLAN

KEY PLAN



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DRAWN Author
CHECKED Checker
APPROVED Approver

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Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
MECHANICAL SYMBOLS AND GENERAL NOTES

PROJECT NUMBER
23.138.2

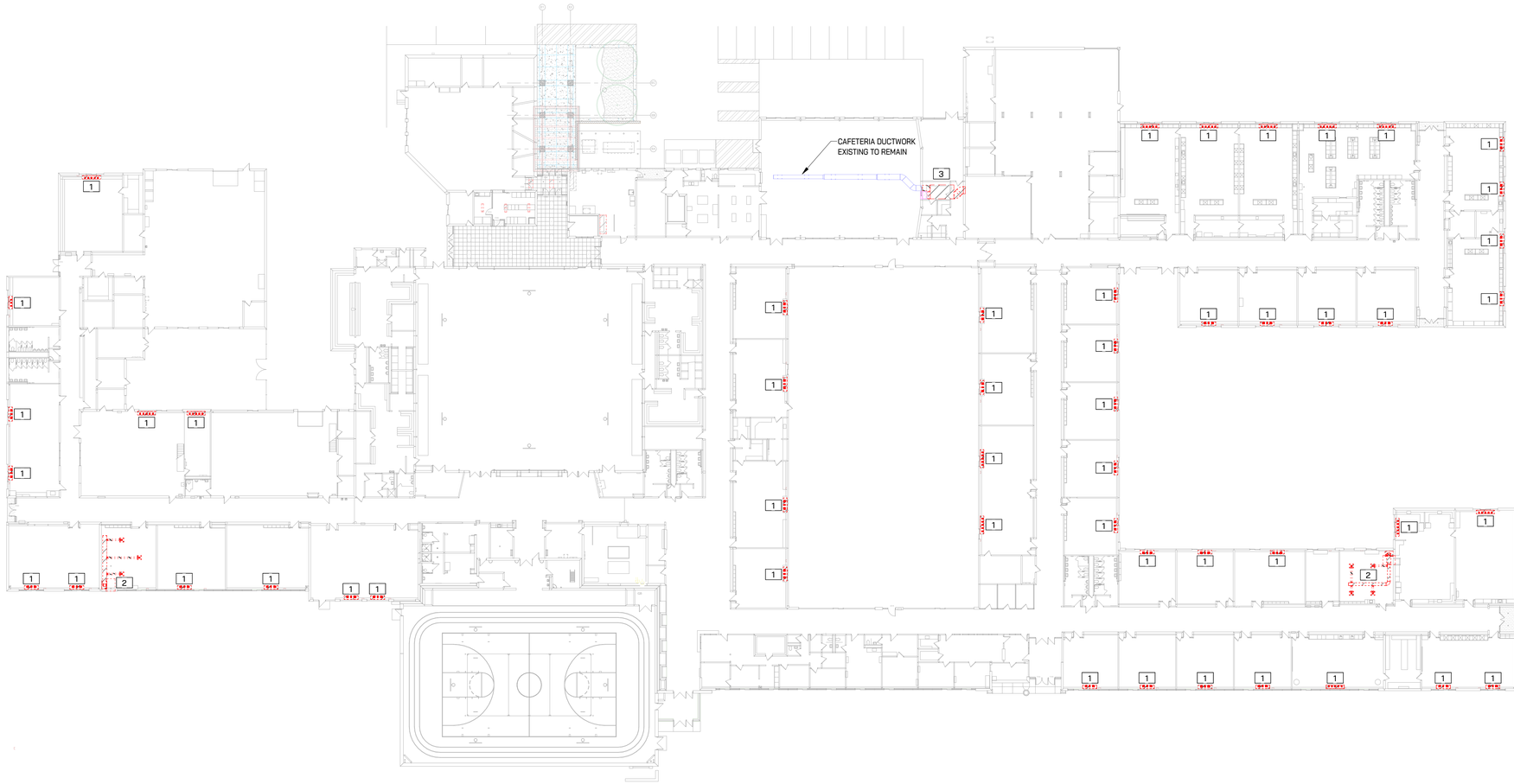
SHEET NUMBER
M000

MECHANICAL DEMOLITION KEYED NOTES

1 DEMO EXISTING HORIZONTAL UNIT VENTILATOR AND CORRESPONDING CONDENSING UNIT IF APPLICABLE.

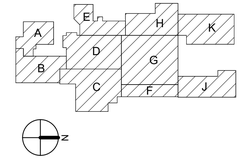
2 DEMO EXISTING VERTICAL UNIT VENTILATOR AND ALL ASSOCIATED ACCESSORIES. REMOVE EXISTING LOUVER AND PATCH WALL, REFER TO ARCHITECTURAL.

3 DEMO EXISTING AIR HANDLER AND LOUVER TO EXTERIOR. DEMO SUPPLY AND RETURN UP TO CAFETERIA WALL AND PREPARE AREA FOR NEW RTU INSTALL. CAFETERIA DUCTWORK TO REMAIN AND BE REUSED WITH NEW RTU.



1 / MD110 OVERALL FIRST FLOOR MECHANICAL DEMOLITION PLAN
1" = 30'-0"

KEY PLAN



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OVERALL FIRST FLOOR MECHANICAL DEMOLITION PLAN

PROJECT NUMBER

23.138.2

SHEET NUMBER

MD110

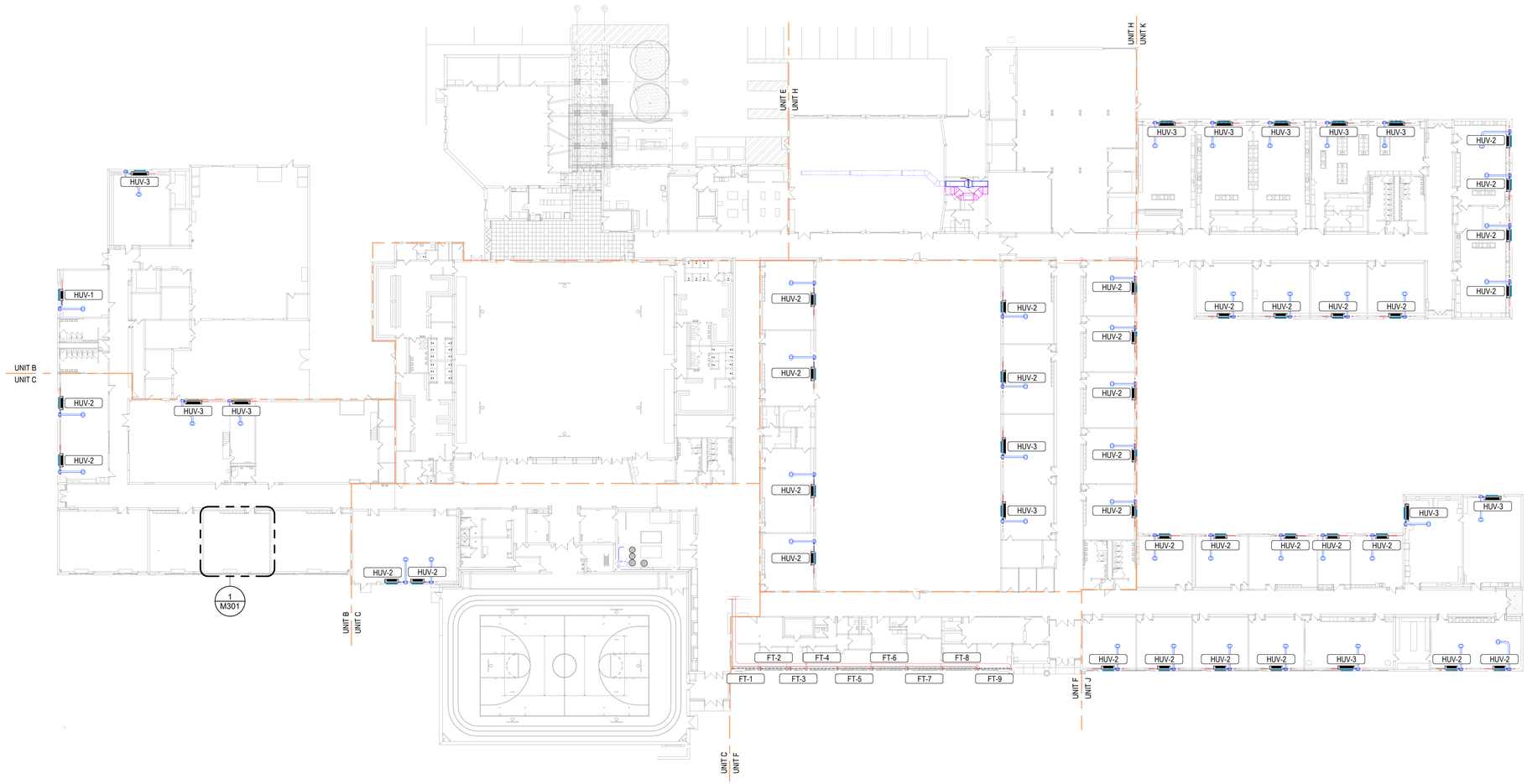
MECHANICAL KEYED NOTES

1 REFRIGERANT LINESET DOWN TO CEILING SPACE BELOW.

2 INSTALL NEW WATER SOFTENERS AND BRINE TANK AFTER SEDIMENT FILTER AND PRIOR TO HOT WATER HEATERS. REWORK EXISTING DOMESTIC PIPING AS REQUIRED. SEE DETAIL 1/M302 FOR WATER SOFTENER DETAIL.

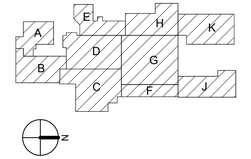
3 2" GAS TO RTU-1, SEE DETAILS 5/M302 & 6/M302 FOR GAS ROOF SUPPORT AND RTU INSTALLATION DETAILS.

4 CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.



1 M110 OVERALL FIRST FLOOR MECHANICAL PLAN
1" = 30'-0"

KEY PLAN



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OVERALL FIRST FLOOR MECHANICAL PLAN

PROJECT NUMBER

23.138.2

SHEET NUMBER

M110

2024-GD - CHESANING BIG ROCK ELEMENTARY

MECHANICAL KEYED NOTES

1 REFRIGERANT LINESET DOWN TO CEILING SPACE BELOW.

2 INSTALL NEW WATER SOFTENERS AND BRINE TANK AFTER SEDIMENT FILTER AND PRIOR TO HOT WATER HEATERS. REWORK EXISTING DOMESTIC PIPING AS REQUIRED. SEE DETAIL 1/M302 FOR WATER SOFTENER DETAIL.

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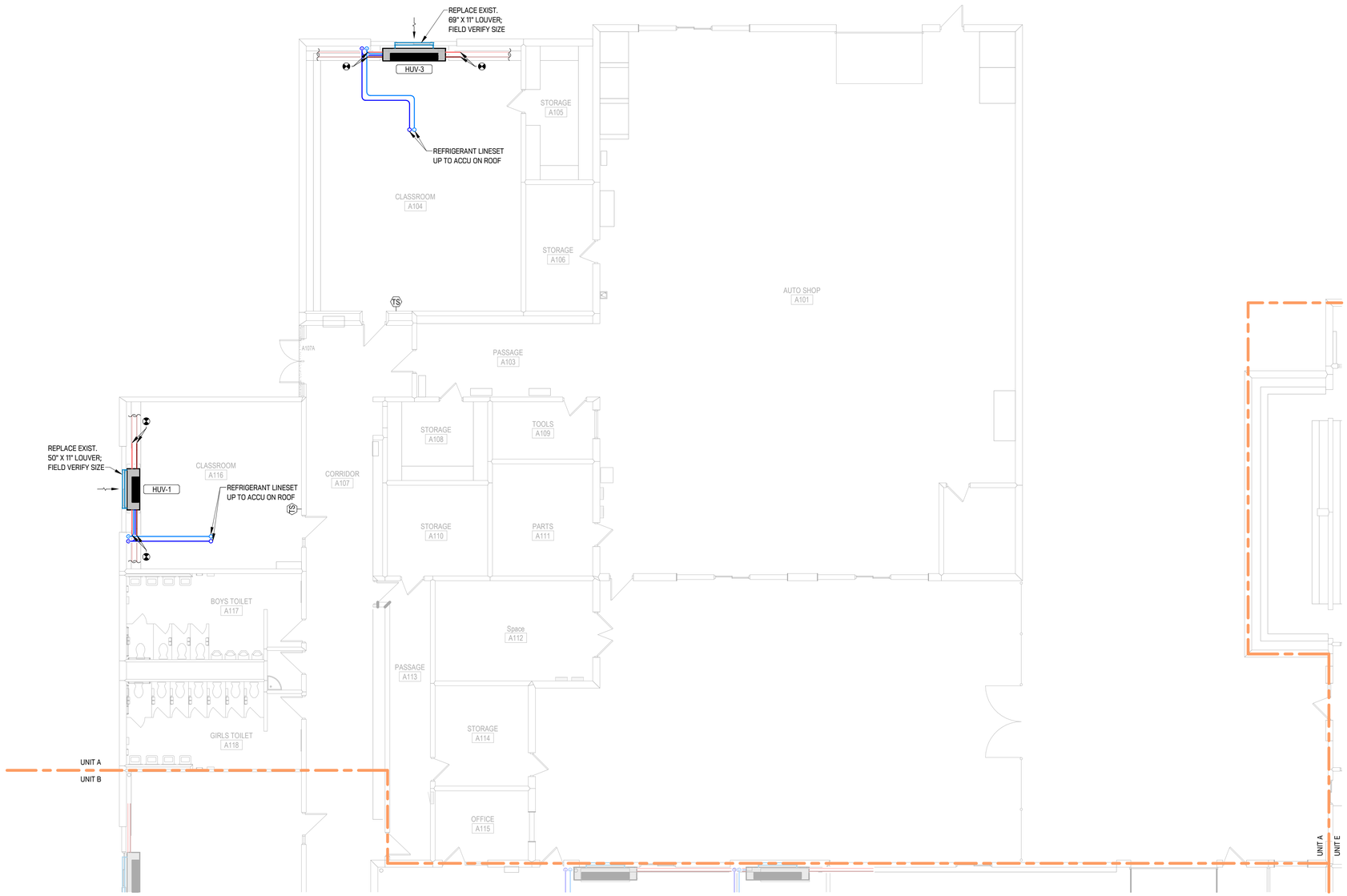
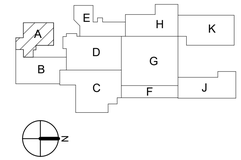


1 M110A FIRST FLOOR MECHANICAL PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



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Michigan

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FIRST FLOOR
MECHANICAL PLAN -
UNIT A

PROJECT NUMBER

23.138.2

SHEET NUMBER

M110A

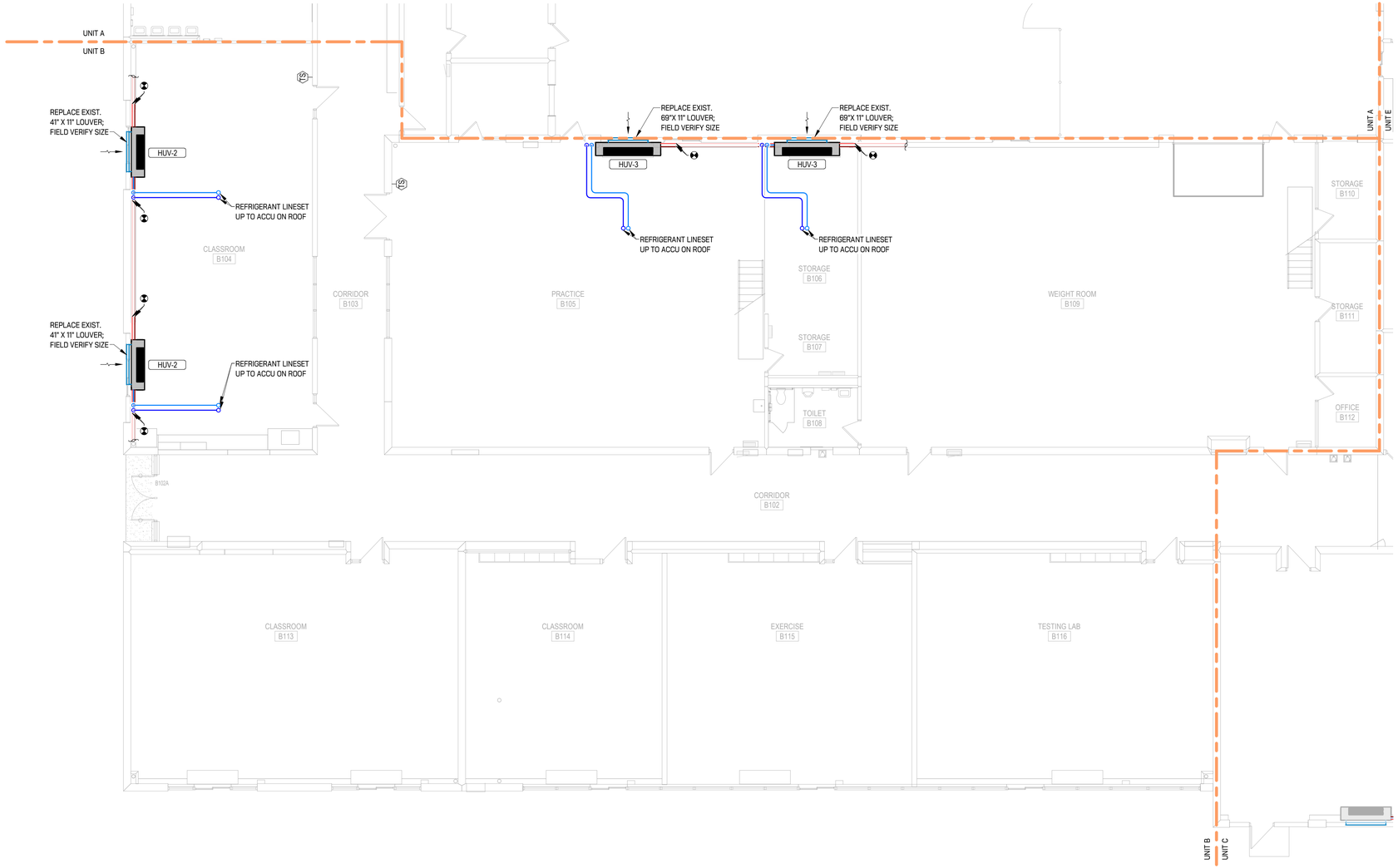
MECHANICAL KEYED NOTES

1 REFRIGERANT LINESET DOWN TO CEILING SPACE BELOW.

2 INSTALL NEW WATER SOFTENERS AND BRINE TANK AFTER SEDIMENT FILTER AND PRIOR TO HOT WATER HEATERS. REWORK EXISTING DOMESTIC PIPING AS REQUIRED. SEE DETAIL 1/M302 FOR WATER SOFTENER DETAIL.

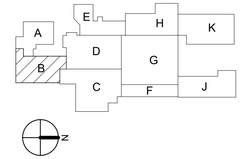
3 2" GAS TO RTU-1, SEE DETAILS 5/M302 & 6/M302 FOR GAS ROOF SUPPORT AND RTU INSTALLATION DETAILS.

4 CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.



1 M110B FIRST FLOOR MECHANICAL PLAN - UNIT B
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



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FIRST FLOOR MECHANICAL PLAN - UNIT B

PROJECT NUMBER

23.138.2

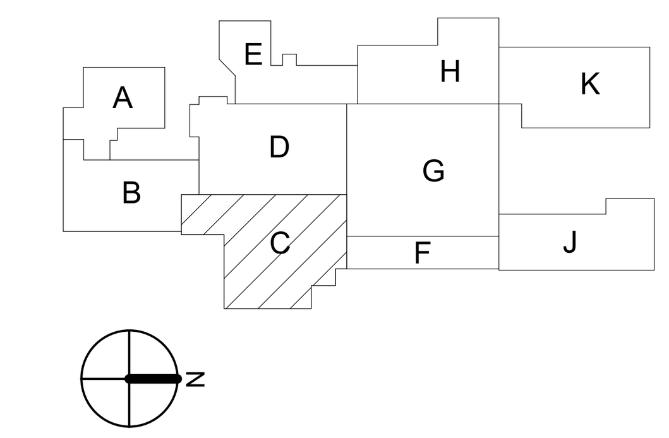
SHEET NUMBER

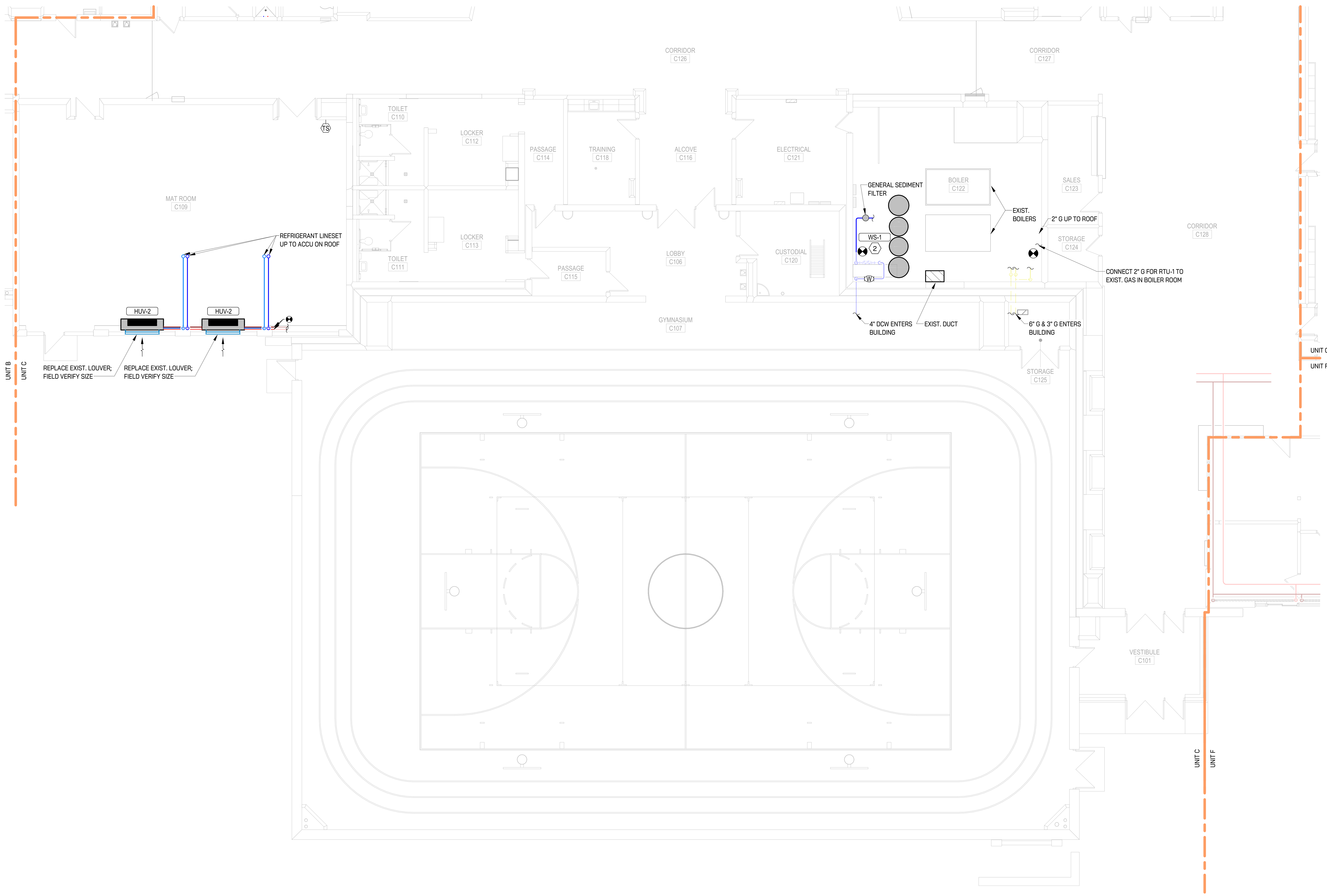
M110B

MECHANICAL KEYED NOTES

1. REFRIGERANT LINESET DOWN TO CEILING SPACE BELOW.
2. INSTALL NEW WATER SOFTENERS AND BRINE TANK AFTER SEDIMENT FILTER AND PRIOR TO HOT WATER HEATERS. REWORK EXISTING DOMESTIC PIPING AS REQUIRED. SEE DETAIL 1/M302 FOR WATER SOFTENER DETAIL.
3. 2" GAS TO RTU-1, SEE DETAILS 5/M302 & 6/M302 FOR GAS ROOF SUPPORT AND RTU INSTALLATION DETAILS.
4. CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.

KEY PLAN





1 M110C FIRST FLOOR MECHANICAL PLAN - UNIT C
1/8" = 1'-0"
0 4' 8' 16'

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FIRST FLOOR MECHANICAL PLAN - UNIT C

PROJECT NUMBER
23.138.2

SHEET NUMBER
M110C

MECHANICAL KEYED NOTES

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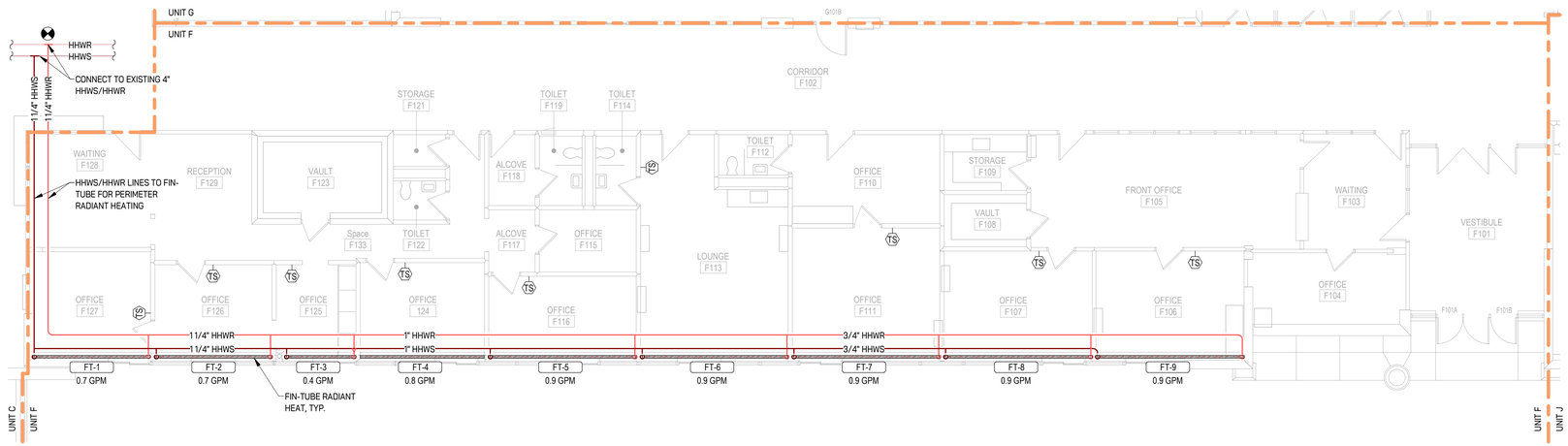
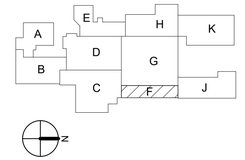
4 CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.



1 M110F FIRST FLOOR MECHANICAL PLAN - UNIT F
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



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FIRST FLOOR MECHANICAL PLAN - UNIT F

PROJECT NUMBER

23.138.2

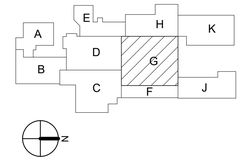
SHEET NUMBER

M110F

2024-025 CHESANING BIG ROCK ELEMENTARY

1 M110G FIRST FLOOR MECHANICAL PLAN - UNIT G
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



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FIRST FLOOR MECHANICAL PLAN - UNIT G

PROJECT NUMBER

23.138.2

SHEET NUMBER

M110G

2024-025 CHESANING BIG ROCK ELEMENTARY

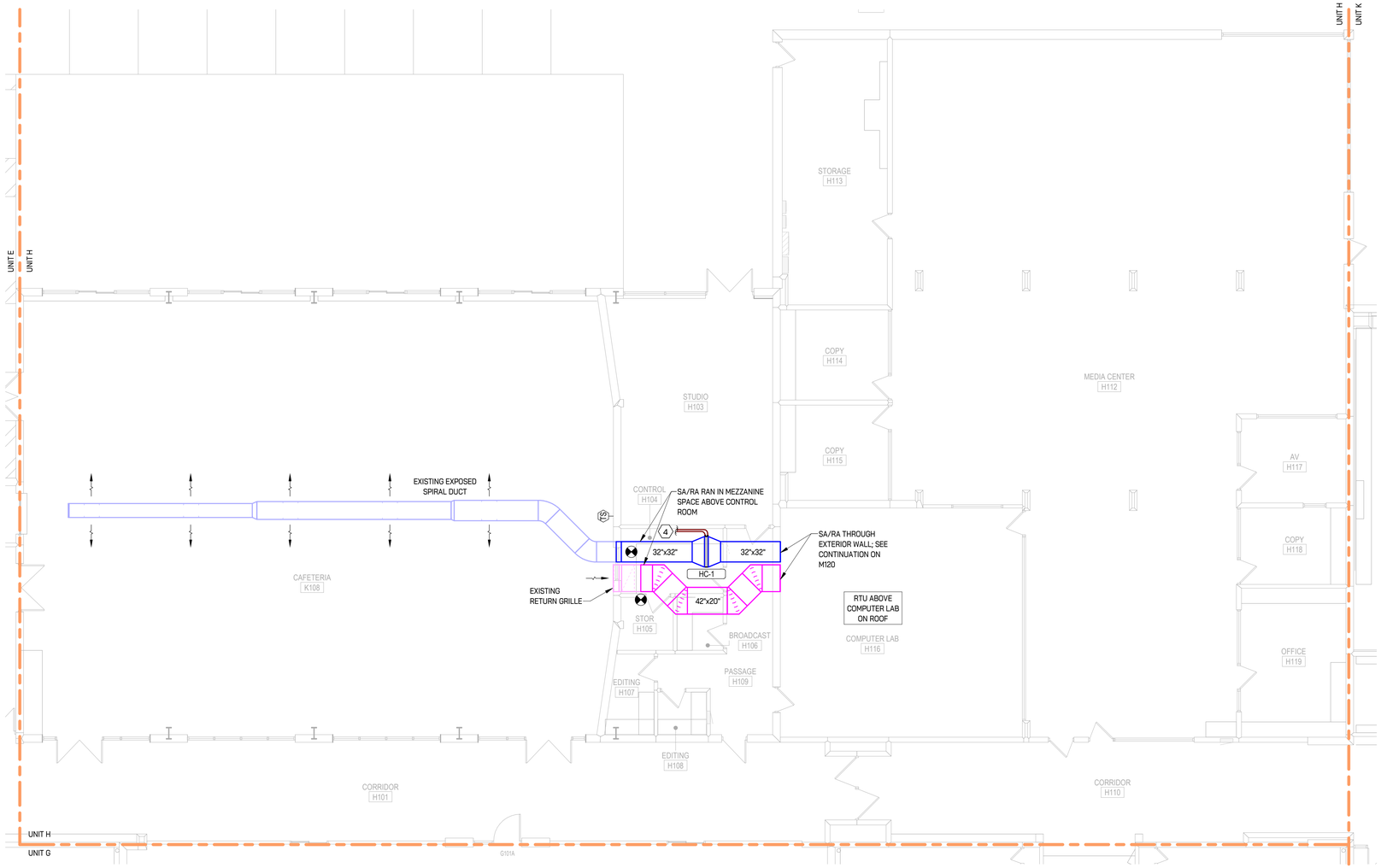
MECHANICAL KEYED NOTES

1 REFRIGERANT LINESET DOWN TO CEILING SPACE BELOW.

2 INSTALL NEW WATER SOFTENERS AND BRINE TANK AFTER SEDIMENT FILTER AND PRIOR TO HOT WATER HEATERS. REWORK EXISTING DOMESTIC PIPING AS REQUIRED. SEE DETAIL 1/M302 FOR WATER SOFTENER DETAIL.

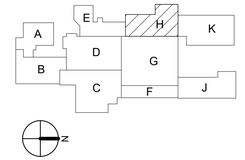
3 2" GAS TO RTU-1, SEE DETAILS 5/M302 & 6/M302 FOR GAS ROOF SUPPORT AND RTU INSTALLATION DETAILS.

4 CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.



1 M110H FIRST FLOOR MECHANICAL PLAN - UNIT H
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



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Michigan

SHEET

FIRST FLOOR MECHANICAL PLAN - UNIT H

PROJECT NUMBER

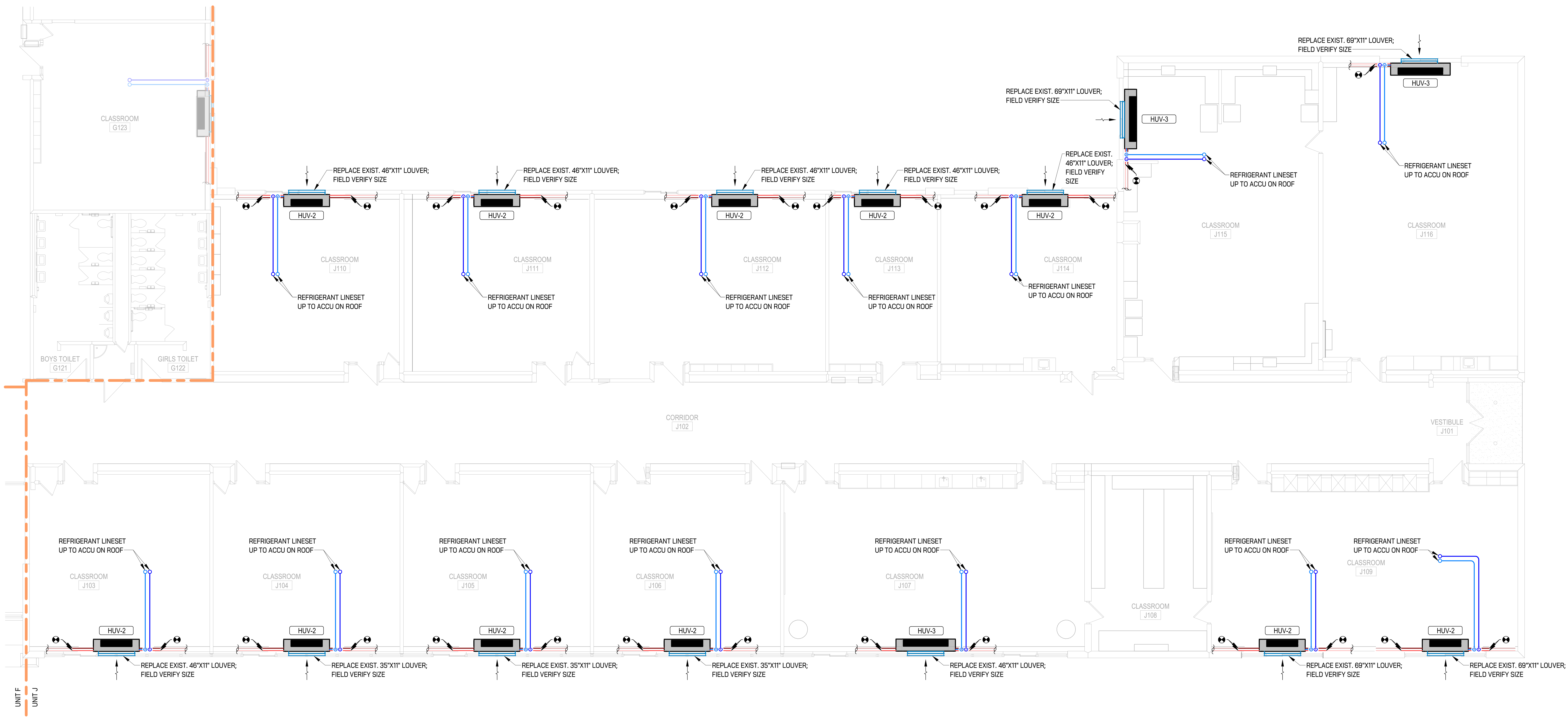
23.138.2

SHEET NUMBER

M110H

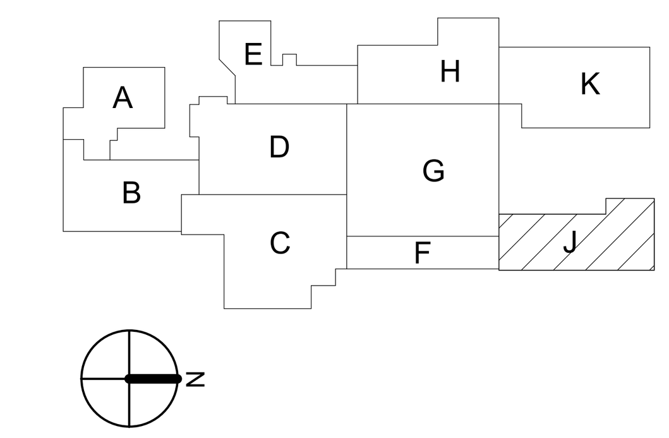
MECHANICAL KEYED NOTES

1. REFRIGERANT LINESET DOWN TO CEILING SPACE BELOW.
2. INSTALL NEW WATER SOFTENERS AND BRINE TANK AFTER SEDIMENT FILTER AND PRIOR TO HOT WATER HEATERS. REWORK EXISTING DOMESTIC PIPING AS REQUIRED. SEE DETAIL 1/M302 FOR WATER SOFTENER DETAIL.
3. 2" GAS TO RTU-1, SEE DETAILS 5/M302 & 6/M302 FOR GAS ROOF SUPPORT AND RTU INSTALLATION DETAILS.
4. CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.



1 M110J FIRST FLOOR MECHANICAL PLAN - UNIT J
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



ISSUE DATE	ISSUED FOR
02/05/2025	PLAN REVIEW
04/10/2025	BID DOCUMENTS

DRAWN J.J.B
CHECKED R.T.I
APPROVED R.T.I

IGNYTE
MECHANICAL + ELECTRICAL DESIGN

FRENCH

2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
FIRST FLOOR MECHANICAL PLAN - UNIT J

PROJECT NUMBER
23.138.2

SHEET NUMBER
M110J

MECHANICAL KEYED NOTES

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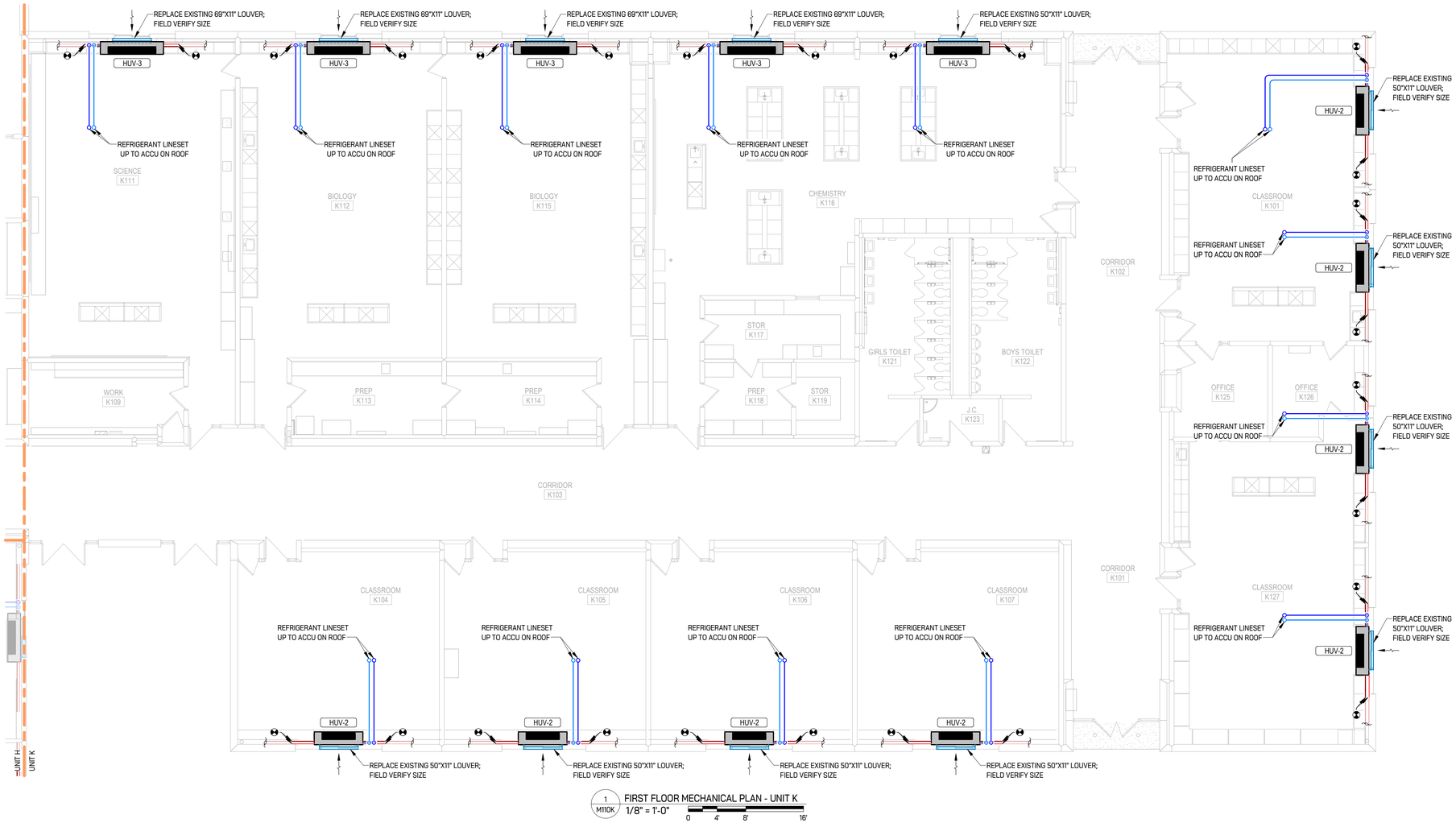
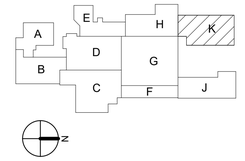
3 2" GAS TO RTU-1, SEE DETAILS 5/M302 & 6/M302 FOR GAS ROOF SUPPORT AND RTU INSTALLATION DETAILS.

4 CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.



1 M110K FIRST FLOOR MECHANICAL PLAN - UNIT K
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



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FIRST FLOOR MECHANICAL PLAN - UNIT K

PROJECT NUMBER

23.138.2

SHEET NUMBER

M110K

2024-062 CHESANING BIRD ROCK ELEMENTARY

MECHANICAL KEYED NOTES

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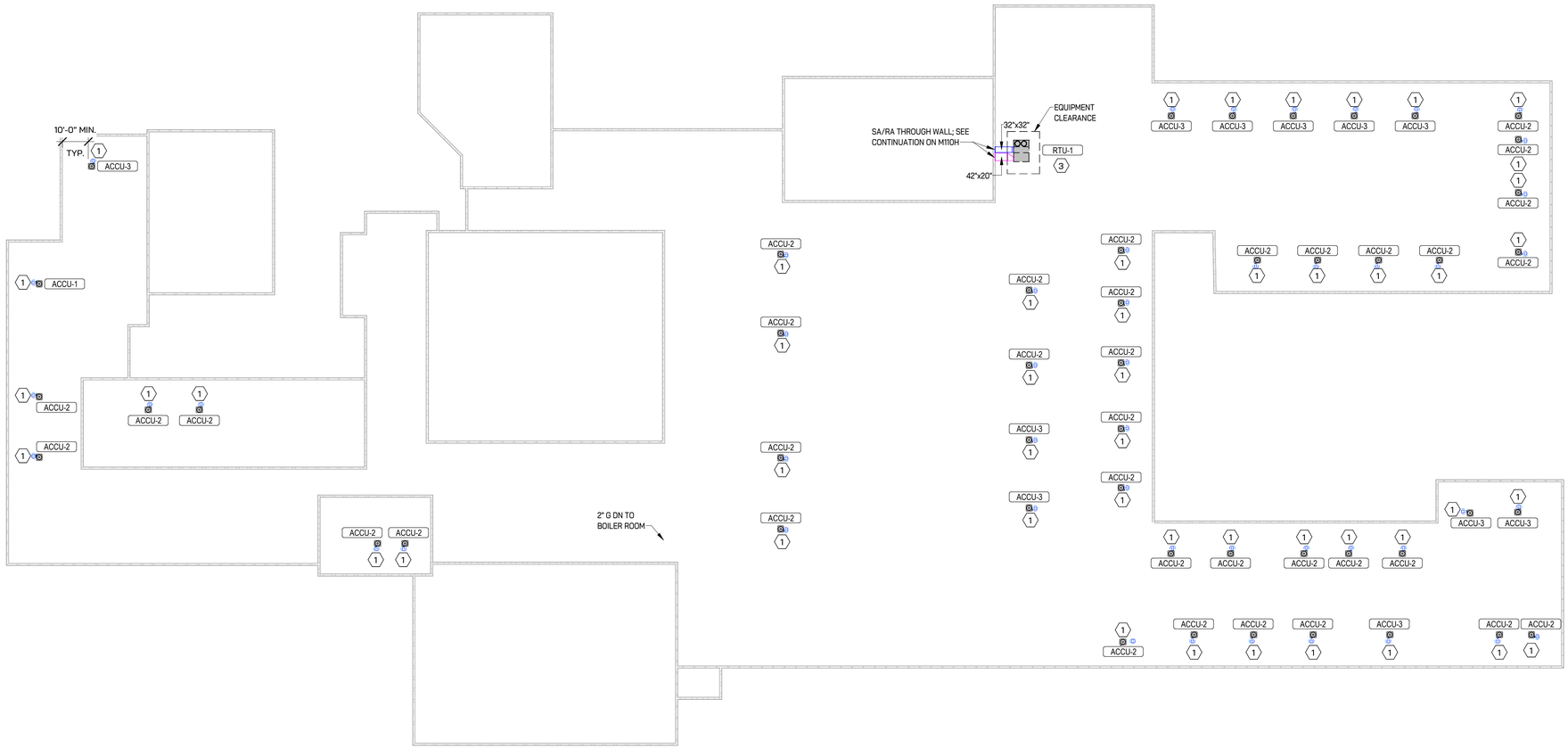
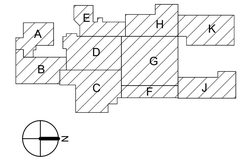
4 CONNECT 2" HHWS/HHWR TO EXISTING PIPING IN MEZZANINE.



1 / M120 OVERALL ROOF MECHANICAL PLAN
1" = 30'-0"

KEY PLAN



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SHEET

OVERALL ROOF SHEET METAL PLAN

PROJECT NUMBER

23.138.2

SHEET NUMBER

M120

FIN-TUBE RADIATOR SCHEDULE

MARK	LOCATION SPACE	LOCATION NO.	MANUFACTURER	MODEL	PRODUCT TYPE	FIN DIMENSIONS HEIGHT	FIN DIMENSIONS WIDTH	TUBE SIZE	MOUNTING HEIGHT	ENCLOSURE DIMENSIONS HEIGHT	ENCLOSURE DIMENSIONS DEPTH	ENCLOSURE DIMENSIONS LENGTH	COIL SECTION LENGTH	BTU/FT	EAT	HOT WATER DESIGN FLOW RATE	HOT WATER DESIGN EWT	HOT WATER DESIGN LWT	HOT WATER COIL ROWS	HOT WATER COIL FPI	NOTES
FT-1	OFFICE	F127	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	13'-7"	12'-0"	600 Btu/h	65 °F	0.7 GPM	180 °F	110 °F	1	40	
FT-2	OFFICE	F126	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	13'-6"	12'-0"	600 Btu/h	65 °F	0.7 GPM	180 °F	110 °F	1	40	
FT-3	OFFICE	F125	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	8'-2"	6'-6"	600 Btu/h	65 °F	0.4 GPM	180 °F	110 °F	1	40	
FT-4	OFFICE	124	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	14'-4"	12'-6"	600 Btu/h	65 °F	0.8 GPM	180 °F	110 °F	1	40	
FT-5	OFFICE	F116	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	17'-0"	15'-6"	600 Btu/h	65 °F	0.9 GPM	180 °F	110 °F	1	40	
FT-6	LOUNGE	F113	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	17'-0"	15'-6"	600 Btu/h	65 °F	0.9 GPM	180 °F	110 °F	1	40	
FT-7	OFFICE	F111	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	17'-0"	15'-6"	600 Btu/h	65 °F	0.9 GPM	180 °F	110 °F	1	40	
FT-8	OFFICE	F107	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	17'-1"	15'-6"	600 Btu/h	65 °F	0.9 GPM	180 °F	110 °F	1	40	
FT-9	OFFICE	F106	ZEHNDER RITTLING	ETO / 3/4C-3 1/4" X 3 1/4"-4O	FLAT TOP	3.25"	3.25"	3/4"	7 5/8"	9 5/8"	3 1/2"	17'-1"	15'-6"	600 Btu/h	65 °F	0.9 GPM	180 °F	110 °F	1	40	

NOTES:

HORIZONTAL UNIT VENTILATOR SCHEDULE (HOT WATER & DX COOLING)

MARK	MANUFACTURER	MODEL	SUPPLY AIRFLOW RATE	OUTDOOR AIRFLOW RATE	FILTER	COOLING DESIGN TOTAL CAPACITY	COOLING DESIGN SENSIBLE CAPACITY	COOLING DESIGN TYPE	HEATING DESIGN TOTAL CAPACITY	HEATING DESIGN FLOW RATE	HEATING DESIGN EWT	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	OPERATING WEIGHT	NOTES
HUV-1	TRANE	VUVE0750	750 CFM	85 CFM	1" MERV 8	21,360 Btu/h	16,010 Btu/h	DX	31,860 Btu/h	3.2 GPM	160 °F	115 V	1	320 lb	
HUV-2	TRANE	VUVE1000	1,000 CFM	300 CFM	1" MERV 8	32,120 Btu/h	22,727 Btu/h	DX	84,860 Btu/h	8.5 GPM	160 °F	115 V	1	405 lb	
HUV-3	TRANE	VUVE1500	1,500 CFM	300 CFM	1" MERV 8	45,300 Btu/h	32,330 Btu/h	DX	75,270 Btu/h	7.5 GPM	160 °F	115 V	1	470 lb	

NOTES:

ACCU SCHEDULE:

ACCU-1:
BASED ON TRANE 5TTR7 2-TON VARIABLE SPEED AIR-COOLED CONDENSING UNIT.
DIMENSIONS (W X D X H) : 32 5/8" X 29 3/4" X 40 3/4"
UNIT WEIGHT : 176 LBS
COMPRESSOR TYPE : ROTARY
FAN MOTOR OUTPUT : 1/3 HP
MCA : 19 A
MOCP : 30 A
VOLTAGE : 208V
PHASE : 1

ACCU-2:
BASED ON TRANE 5TTR7 3-TON VARIABLE SPEED AIR-COOLED CONDENSING UNIT.
DIMENSIONS (W X D X H) : 32 5/8" X 29 3/4" X 40 3/4"
UNIT WEIGHT : 156 LBS
COMPRESSOR TYPE : ROTARY
FAN MOTOR OUTPUT : 1/8 HP
MCA : 6.8 A
MOCP : 15 A
VOLTAGE : 460V
PHASE : 3

ACCU-3:
BASED ON TRANE 5TTR7 4-TON VARIABLE SPEED AIR-COOLED CONDENSING UNIT.
DIMENSIONS (W X D X H) : 37 1/4" X 34 1/4" X 45 1/8"
UNIT WEIGHT : 257 LBS
COMPRESSOR TYPE : ROTARY
FAN MOTOR OUTPUT : 1/5 HP
MCA : 16.2 A
MOCP : 25 A
VOLTAGE : 460V
PHASE : 3

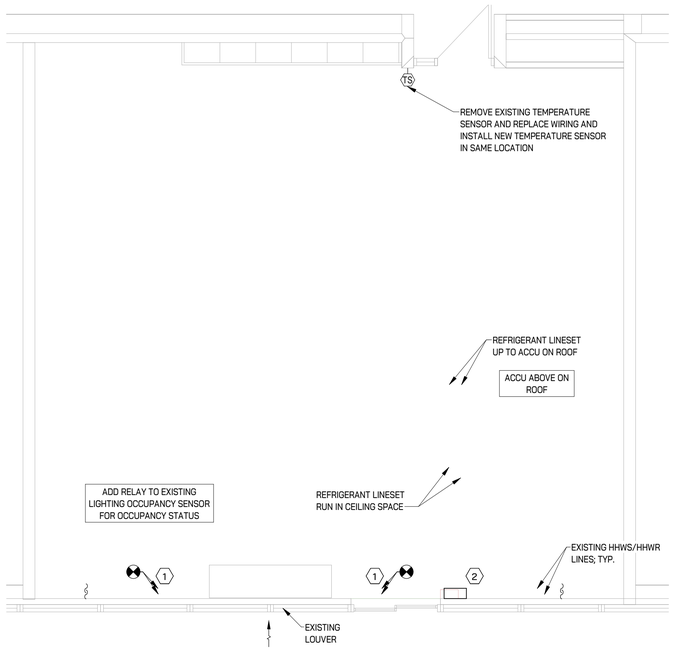
* NOTE : ACCUS TO BE PROVIDED WITH HOT GAS BYPASS

RTU SCHEDULE:

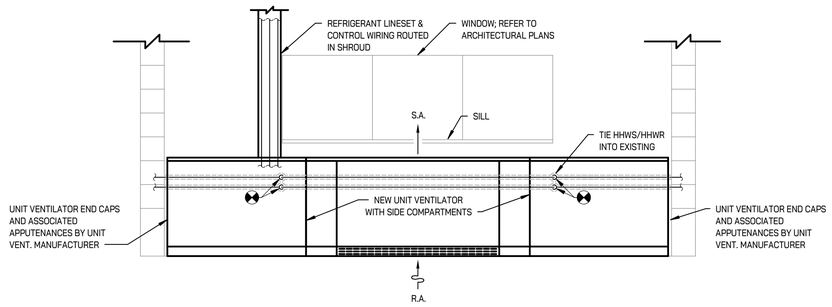
RTU-1:
BASED ON TRANE TSK240A4S00 PRECEDENT PACKAGED ROOFTOP UNIT
AIRFLOW : 7500 CFM
REFRIGERANT : R454B
FILTER : MERV-13
DIMENSIONS (W X D X H) : 7.25' X 4.92' X 10.25'
UNIT WEIGHT : 2,616 LBS
IEER : 13.7
TOTAL COOLING CAPACITY : 236.03 MBH
SENSIBLE COOLING CAPACITY : 170.45 MBH
MCA : 59 A
MOCP : 80 A
VOLTAGE : 460V
PHASE : 3

*HEATING PROVIDED BY SEPARATE HEATING COIL (HC-1), SEE BELOW:

HC-1:
BASED ON TRADE DWPB3604BG0BA103CAAA00B, HOT WATER 1/2" SHIPPING COIL, LOW WATER FLOW.
HEATING CAPACITY : 366.02 MBH
ROWS : 2
FIN SPACING : 103 FPF
COIL HEIGHT : 36"
COIL LENTH : 48"
EDB : 50 F
LDB 95 F
FLOW RATE : 36.62 GPM
EWT : 160 F
LWT : 140 F



1 M301 CLASSROOM ENLARGED MECHANICAL PLAN
1/4" = 1'-0"
0 2' 4' 8'



2 M301 FLOOR MTD. UNDER WINDOW CLASSROOM UNIT VENTILATOR DETAIL
1/8" = 1'-0"

ENLARGED MECHANICAL KEYED NOTES1

1 CONNECT HUV TO EXISTING HHWS/HHWR LINES.
2 REFER TO ARCHITECTURAL FOR PRECISE LOCATION OF SHROUD FOR REFRIGERANT LINESET.
3 NEW PIPING ENCLOSURE ON BOTH SIDES OF UNIT VENTILATOR, REFER TO ARCHITECTURAL.

GENERAL NOTES:

1. THE CONTRACTOR HAS THE OPTION TO REUSE EXISTING HHW PIPE, HOWEVER, REUSED PIPE SHALL BE WARRANTED THE SAME AS NEW PIPE AND REGARDLESS OF BEING PREVIOUSLY NOT INSULATED, REUSED PIPE SHALL BE INSULATED LIKE NEW PIPE IN ACCORDANCE WITH THE DIVISION 23 SPECIFICATIONS.
2. DO NOT CUT THE UNIT VENTILATOR TO ACCOMMODATE EXISTING PIPING UNALIGNED WITH NEW UNIT PIPE CHASE, PROVIDE THE NECESSARY OFFSETS AND PIPING REQUIRED TO RELOCATE ANY REUSED PIPING TO BE WITHIN THE NEW PIPE CHASE. PROVIDE THE NECESSARY OFFSETS WITHIN THE END COMPARTMENTS OF THE UNIT VENTILATOR (HUV).
3. WHERE GASKETS ARE INDICATED ON PLANS OR MANUFACTURER'S WRITTEN INSTRUCTIONS THEY SHALL BE USED AND NOT CUT OR ALTERED TO ACCOMMODATE EXISTING CONDITIONS; EXISTING CONDITIONS (PIPING, IRREGULATOR WALL SURFACE) SHALL BE ALTERED, SMOOTHED, REARRANGED, ETC. TO ACCOMMODATE GASKETS.
4. RIGID BOARD WALL INSULATION BEHIND EXISTING UNIT VENTILATOR AND SHELVING MUST BER INSPECTED FOR DAMAGE AND REPAIRED PRIOR TO NEW UNIT VENTILATOR OR ACCESSORY INSTALLATION.
5. PROVIDE WALL SLEEVE SEALED TO (E)INTAKE LOUVER AND NEW HUV. OTHER MEANS DESCRIBED IN MANUFACTUER'S WRITTEN INSTRUCTIONS MAY BE ACCEPTED PROVIDED THE INCLUSION OF A SEALED AND INSULATED BARRIER BETWEEN UNTREATED OA AND THE CLASSROOM AND BETWEEN UNTREATED OA AND ANY AN ALL PIPING.
6. NEITHER NEW OR EXISTING PIPING SHALL BE EXPOSED TO OUTSIDE AIR; HHWS/HHWR PIPING BEHIND THE UNIT VENTILATOR SHALL BE INSTALLED WITHIN A UNIT INTEGRAL, INSULATED, CLOSED PIPE CHASE/TUNNEL COMPARTMENT AND ISOLATED FROM THE OUTSIDE AIR STREAM. IF INSULATION IS NOT PROVIDED BY THE FACTORY, FIELD INSULATE OUTSIDE AIR PATH FROM LOUVER TO UNIT (I.E. FIELD APPLY INSULATION TO WALL BOX, PLENUM, DUCT SLEEVE, AIR BAFFLE, ETC. USED TO CONNECT LOUVER TO UNIT.
7. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTERUCTIONS, FOR EXISTING CONDITIONS ENCOUNTERED DURING THE COURSE OF WORK WHICH DIFFER FROM CONDITIONS DESCRIBED ON THE CONSTRUCTION DOCUMENTS, CONSULT THE MANUFACTURER OR ENGINEER FOR ADDITIONAL DIRECTION: INSTALLATION INCONSISTENT WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND CONSTRUCTION DOCUMENTS WILL NOT BE ACCEPTED AND THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST (INCLUDING HHW SYSTEM DRAINING AND FILLING) TO BRING THE INSTALLATION INTO CONFORMANCE WITH CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.

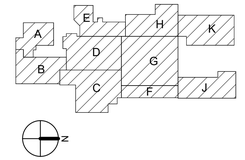
WATER SOFTENER SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL	MAX. SOFTENING CAPACITY	SERVICE FLOW RATE PER TANK	SERVICE FLOW RATE STEADY FLOW DEMAND	BACKWASH RATE PER TANK	MEDIA	PIPE SIZE	VOLTAGE	NOTES
WS-1	WATER SOFTENER	PEERLESS, INC.	D600 TCCM-FD-3	600,000 GRAINS PER TANK	115 GPM	225 GPM	30 GPM	20 CU. FT PER UNIT	3"	115V	

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	INSTALLATION TYPE	MATERIAL DESCRIPTION	FINISH	DOMESTIC CONNECTIONS COLD WATER	DOMESTIC CONNECTIONS HOT WATER	DOMESTIC CONNECTIONS PIPING SIZES	DRAIN WASTE VENT DRAIN SIZE	DRAIN WASTE VENT DWV TEE	DRAIN WASTE VENT VENT SIZE	PRODUCT SPECIFICATION	NOTES
SH-1	SHOWER STALL	SYMMONS	H901S / H903S	SURFACE-MOUNTED	STAINLESS STEEL	#4 BRUSH	Yes	Yes	1/2"	2"	2"	2"	SYMMONS SURFACE-MOUNTED SHOWER SYSTEM H901S / H903S. INCLUDES PRESSURE-BALANCING MIXING VALVE WITH SCREWDRIVER SERVICE STOPS AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. SHOWERHEAD IS FRE-FLO, ALL BRASS WITH BALL JOINT. ATTACHED SOAP DISH AND SLOPED METAL TOP CAP. STAINLESS STEEL COVERING TO BE 18 GAUGE WITH #4 BRUSH FINISH, 2.0 GPM STANDARD FLOW RATE. 10-YEAR COMMERCIAL WARRANTY. ASME A112.18.1/CSA B125.1, ASSE 1016 COMPLIANT.	

KEY PLAN



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SHEET
ENLARGED MECHANICAL PLANS, SCHEDULES & DETAILS

PROJECT NUMBER
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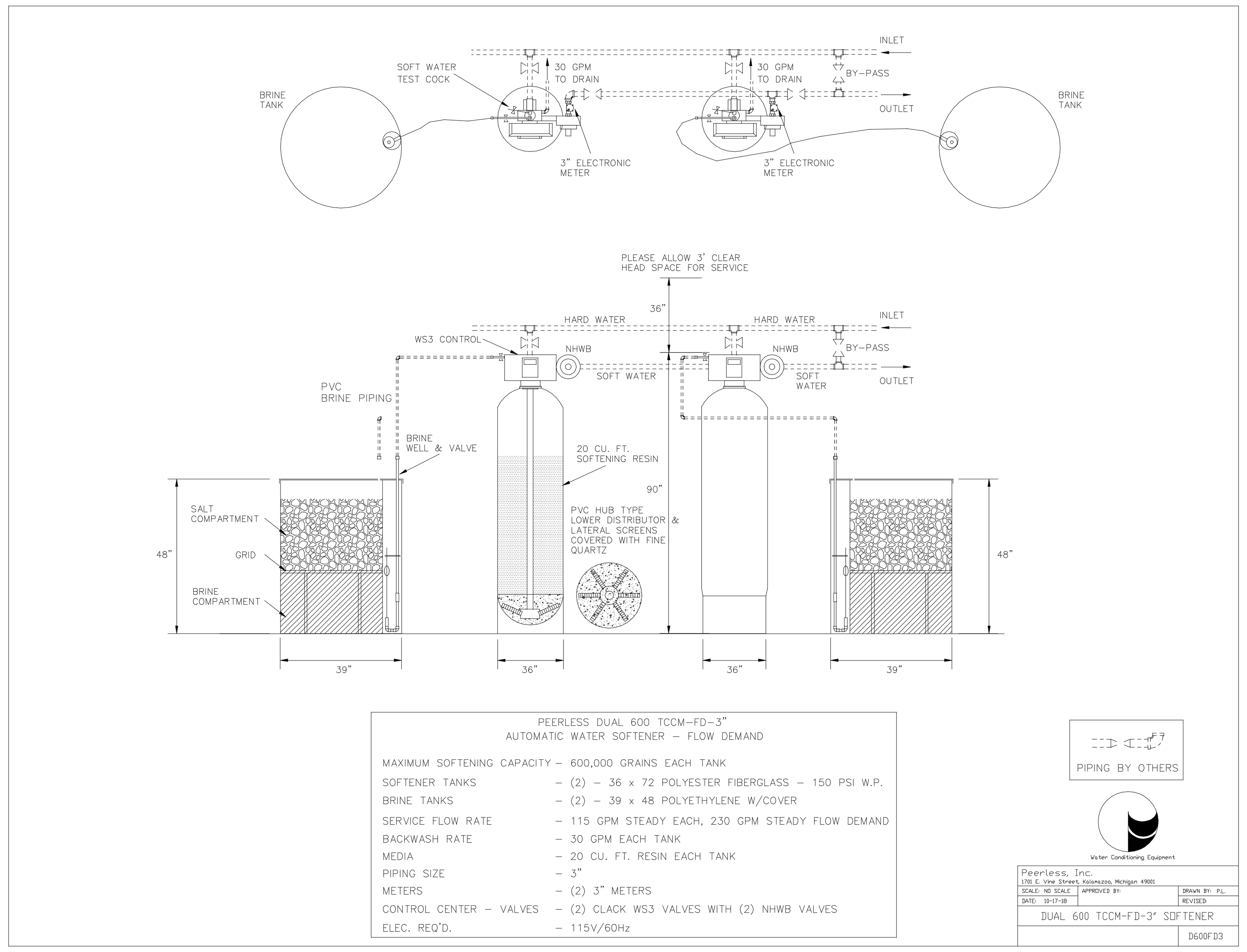
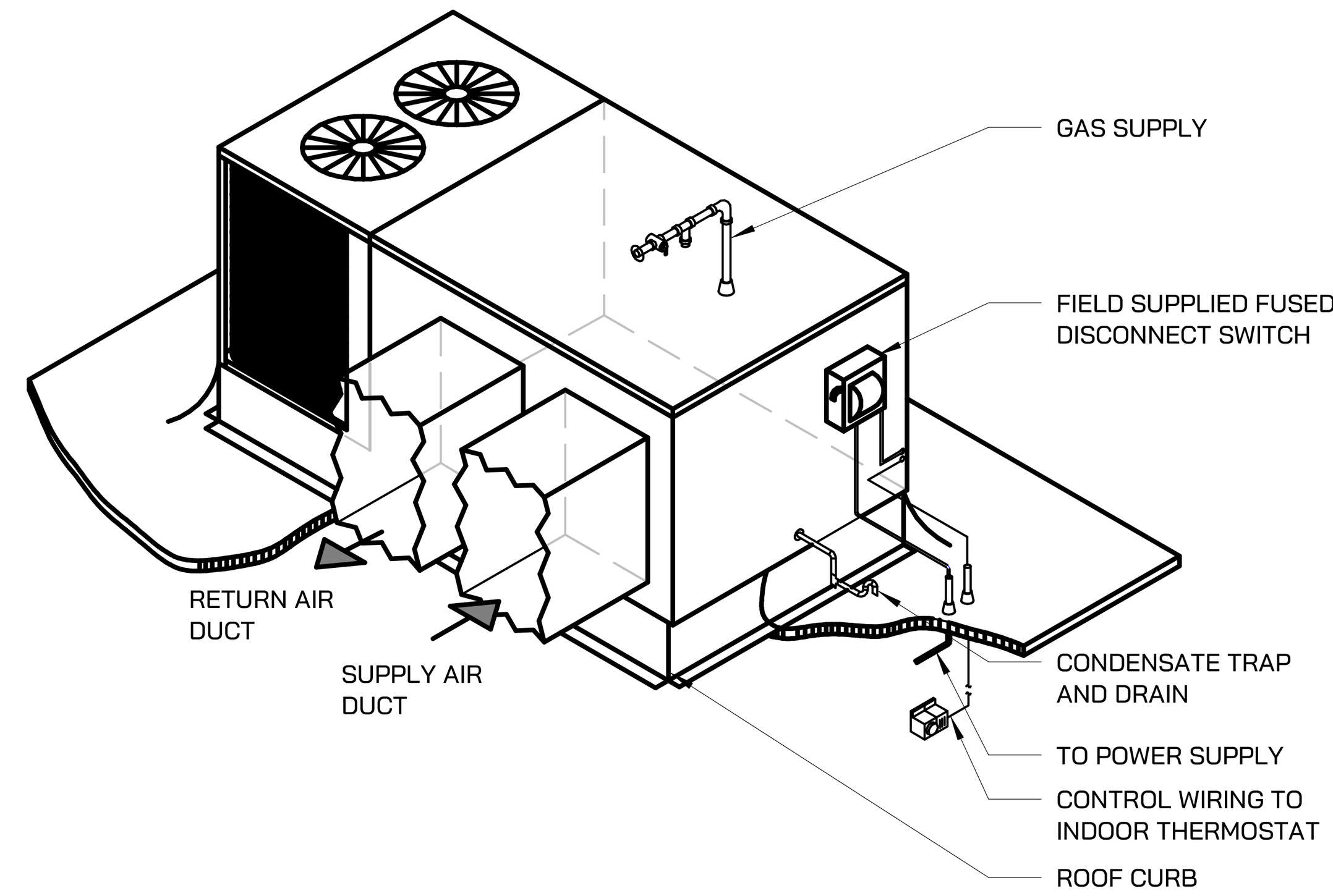
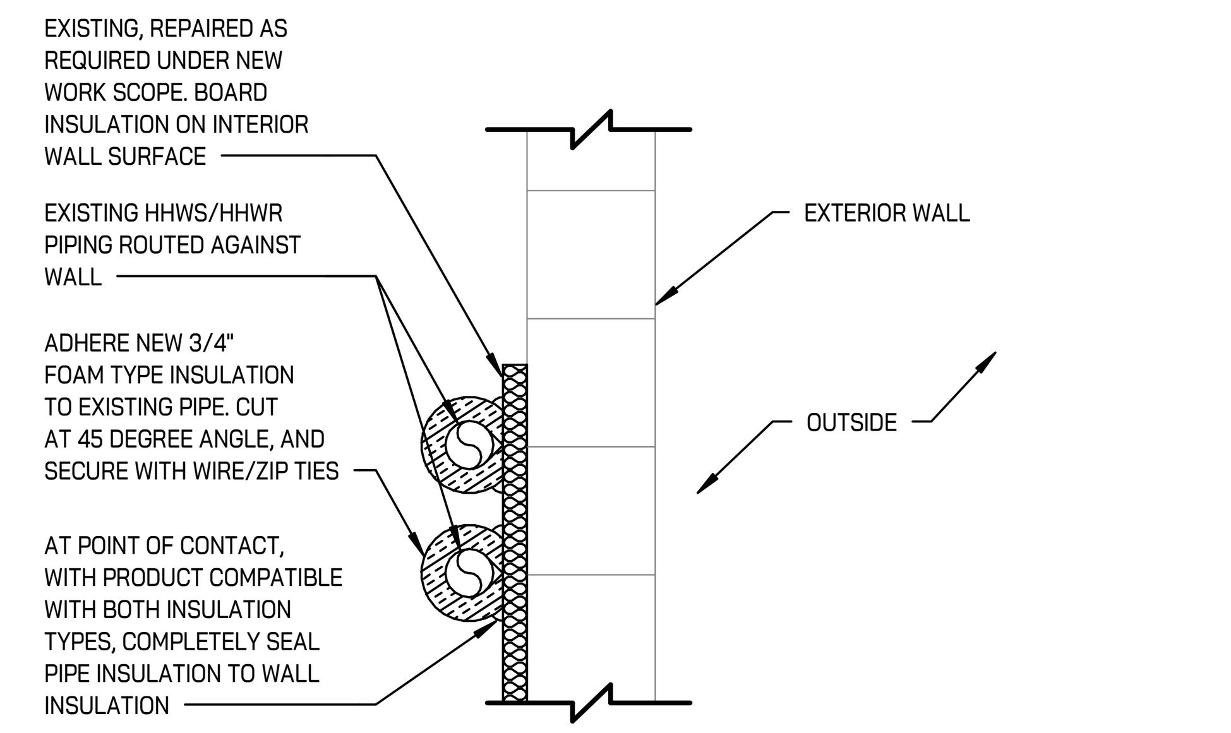


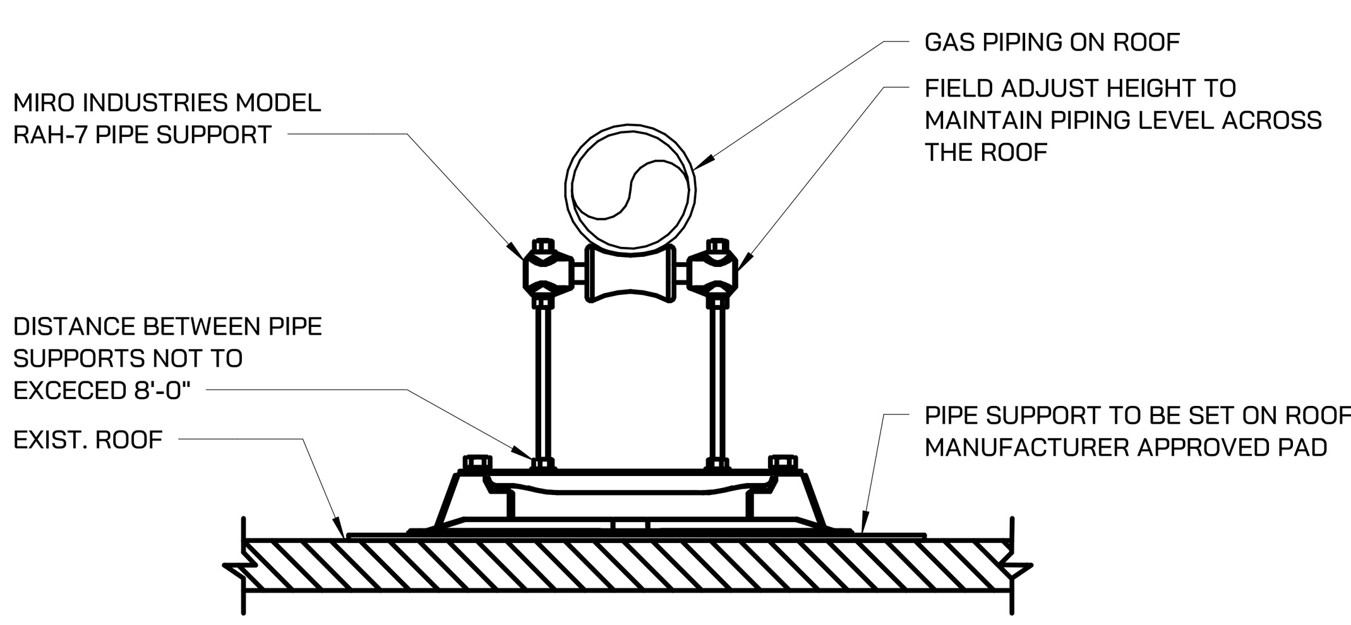
1 / M302 FLOOR MTD. UNDER WINDOW CLASSROOM UNIT VENTILATOR DETAIL
1/8" = 1'-0"



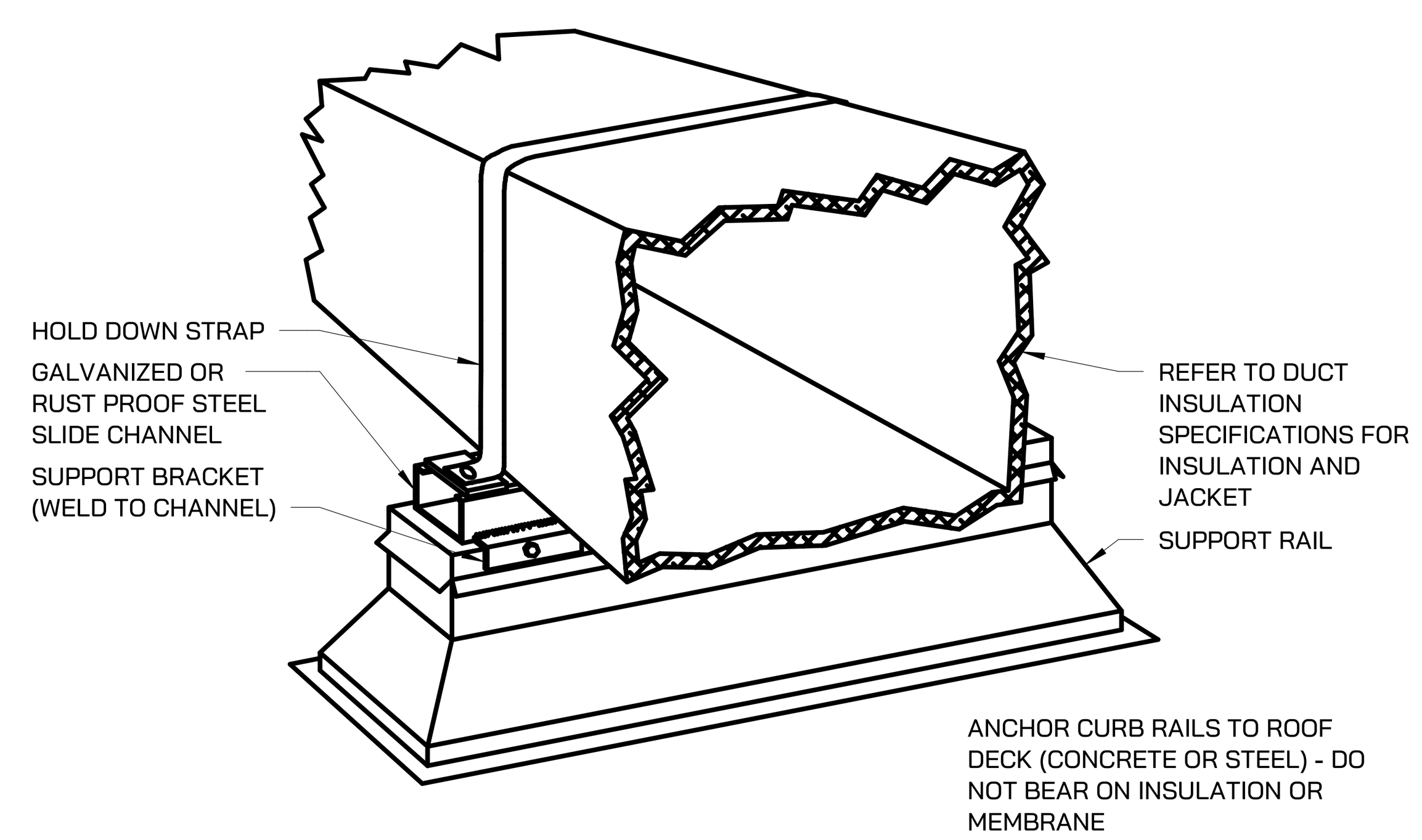
6 / M302 ROOFTOP PACKAGED HVAC UNIT WITH HORIZONTAL SUPPLY AND RETURN DUCTS
1/8" = 1'-0"



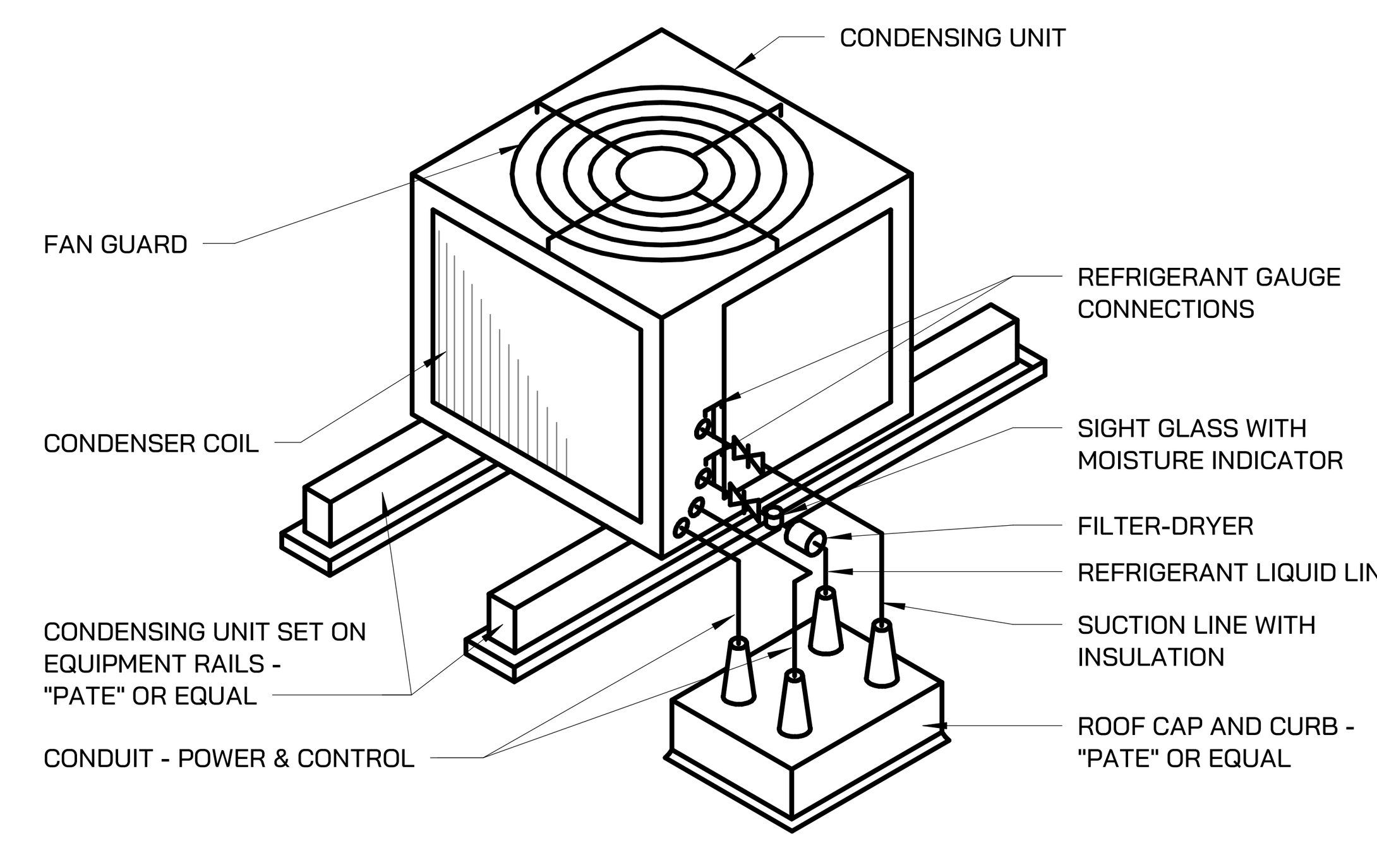
2 / M302 WALL MOUNTED INTERIOR HHW PIPING WITHIN 3/4" OF OUTSIDE WALL INSULATION DETAIL
1/8" = 1'-0"



5 / M302 GAS PIPING ROOF SUPPORT DETAIL
1/8" = 1'-0"

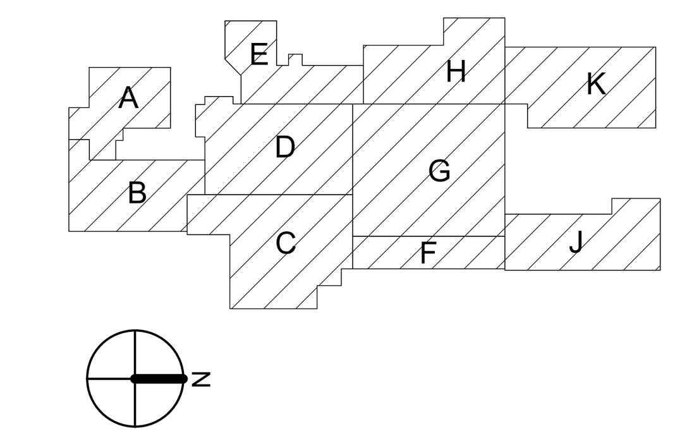


4 / M302 DUCT MOUNTING RAIL SUPPORT
1/8" = 1'-0"



3 / M302 AIR COOLED CONDENSING UNIT - ROOF MOUNTED
1/8" = 1'-0"

KEY PLAN



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SHEET
MECHANICAL DETAILS

PROJECT NUMBER
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ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	AMPERES
AF	AMPERES FRAME (BREAKER RATING)
AFCI	ARC FAULT CIRCUIT INTERRUPTER
A.F.F.	ABOVE FINISH FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AL	AUDIENCE LEFT
AR	AUDIENCE RIGHT
AT	AMPERS TRIP (BREAKER SETTING)
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BKR	BREAKER
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DEMO	DEMOLITION
DIM	DIMENSION
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DS	DOWNSTAGE
DWG	DRAWING
EBU	EMERGENCY BATTERY UNIT
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM/ EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALY OPERATED
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FLR	FLOOR
FOH	FRONT OF HOUSE
FSEC	FOOD SERVICE EQUIPMENT
FU	FUSE
G/GRD/EG	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HV	HIGH VOLTAGE
HZ	HERTZ
IG	ISOLATED GROUND
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT - AMPERES
KW	KILOWATT
KWH	KILOWATT - HOURS
LA	LIGHTING ARRESTOR
LP	LIGHTING PANEL
LDP	LIGHTING DISTRIBUTION PANEL

ABBREVIATION	DESCRIPTION
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MIN	MINIMUM
MISC.	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSIBLE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	POLE
PB	PUSHBUTTON STATION
PH	PHASE
PT	POTENTIAL TRANSFORMER
PDP	POWER DISTRIBUTION PANEL
RECEPT.	RECEPTACLE
RCP	RECEPTACLE
RDP	RECEPTACLE DISTRIBUTION PANEL
RP	RECEPTACLE PANEL
RSC	RIGID STEEL CONDUIT
SCHED	SCHEDULE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOX
TELECOM	TELECOMMUNICATIONS
TR	TAMPER RESISTANT
TTP	TELEPHONE TERMINAL BACKBOARD
TYP	TYPICAL
UNO	UNLESS OTHERWISE NOTED
US	UPSTAGE
V	VOLTS
W	WIRE OR WATTS
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
(E)	EXISTING
(R)	RELOCATED

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHTING FIXTURE - ARCHITECTURAL TROFFER
	EMERGENCY LIGHTING FIXTURE
	LIGHTING FIXTURE - PENDANT
	WALL MOUNTED LIGHTING FIXTURE
	LIGHTING FIXTURE
	LIGHTING TRACK OR ROPE LIGHT
	TRACK LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE - POST TOP
	BOLLARD LIGHTING FIXTURE
	EMERGENCY LIGHTING UNIT
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE - WALL MOUNTED
GTD	GENERATOR TRANSFER DEVICE
LC	LIGHTING CONTROL DEVICE - REFER TO LIGHTING CONTROL SCHEDULE
S	SINGLE POLE TOGGLE SWITCH
S_2	TWO POLE TOGGLE SWITCH
S_3	3 WAY TOGGLE SWITCH
S_4	4 WAY TOGGLE SWITCH
S_K	KEY OPERATED SWITCH
S_D	DIMMER SWITCH
S_{OS}	DIMMER OCCUPANCY SENSOR SWITCH
S_{LV}	LOW VOLTAGE DIMMER SWITCH
S_P	PILOT SWITCH
S_{TS}	TOUCH SCREEN SWITCH
OS	OCCUPANCY SENSOR DEVICE - CEILING
OS	OCCUPANCY SENSOR DEVICE - WALL
PC	PHOTOCELL DEVICE - REFER TO ZONES SHOWN ON PLANS
RGP	REMOTE GENERATOR ANNUNCIATOR PANEL
ATS	AUTOMATIC TRANSFER SWITCH
GB	GROUND BUS

SYMBOL	DESCRIPTION
CP	CONTROL PANEL
	MOTOR
VFD	VARIABLE FREQUENCY DRIVE
	MANUAL CONTROLLER
	MAGNETIC CONTROLLER
	COMBINATION MAGNETIC CONTROLLER
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
CB	ENCLOSED CIRCUIT BREAKER
	PUSH BUTTON STATION
	EMERGENCY POWER OFF BUTTON
DP	AUTOMATIC DOOR CONTROLLER
PP	AUTOMATIC DOOR PUSH PAD OPERATOR
	GROUND ROD
	GROUND CONNECTION
X	CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE
	CONDUIT STUB - UP/DOWN
	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET
	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET MOUNTED 4" ABOVE COUNTERTOP
	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET
X	TELECOMMUNICATION OUTLET "X" INDICATES TYPE
S	SPEAKER
S	SPEAKER - WALL MOUNTED
MIC	MICROPHONE
VC	VOLUME CONTROL
B	SIGNALING BELL
	SINGLE FACE CLOCK - CEILING MOUNTED
	SINGLE FACE CLOCK - WALL MOUNTED
	DOUBLE FACE CLOCK - CEILING MOUNTED
	DOUBLE FACE CLOCK - WALL MOUNTED

REFER TO ELECTRICAL STANDARD SCHEDULES

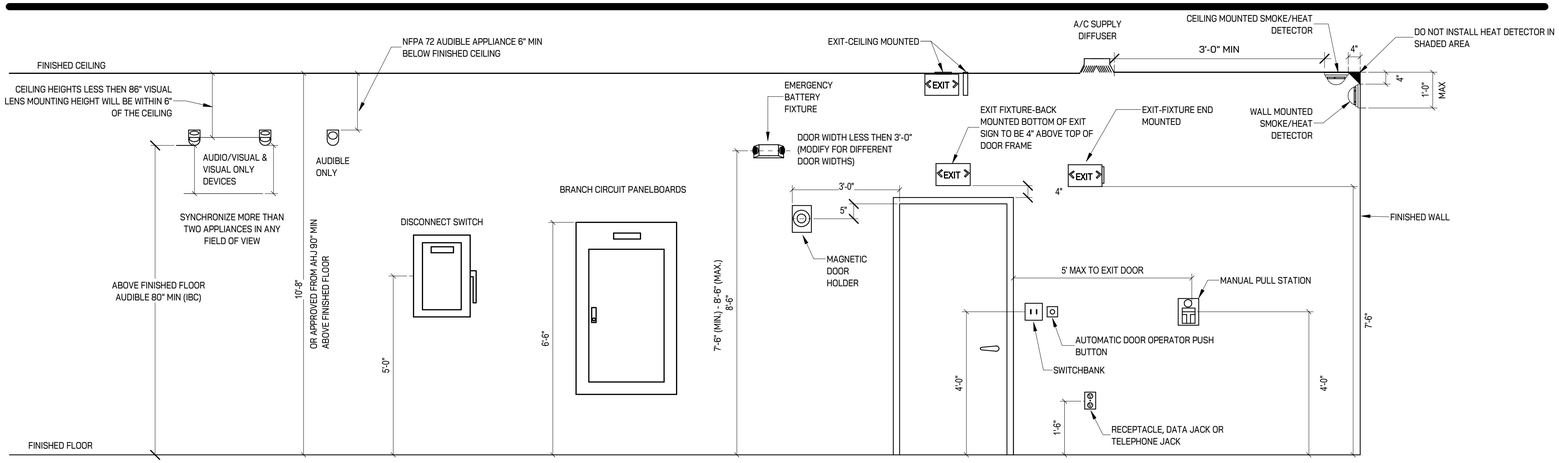
SYMBOL	DESCRIPTION
	SECURITY CAMERA
MD	MOTION DETECTOR
K	SECURITY KEY SWITCH
DC	DOOR CONTACT
KP	KEY PAD
CR	CARD READER
DB	DURESS PUSH BUTTON STATION
DE	DELAYED EGRESS
REX	REQUEST TO EXIT STATION
	CIRCUIT BREAKER
	DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED
	SWITCH
	AUTOMATIC OR MANUAL TRANSFER SWITCH
	FUSE
	TRANSFORMER
	CURRENT TRANSFORMER
EQ	POTENTIAL TRANSFORMER
	LIGHTNING ARRESTOR
X	PANELBOARD "X" INDICATES PANELBOARD NAME
	GROUND
K	SECURITY KEY INTERLOCK
G	ENGINE GENERATOR
M	UTILITY METER
A	AMMETER
V	VOLTMETER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH
SPD	SURGE PROTECTIVE DEVICE
TDR	TIME DELAY RELAY
	THERMAL OVERLOAD RELAY
	NORMALLY OPEN CONTACTS
	NORMALLY CLOSED CONTACTS
	N.O. PUSH BUTTON SINGLE CIRCUIT
	N.C. PUSH BUTTON SINGLE CIRCUIT

SYMBOL	DESCRIPTION
	SIMPLEX / DUPLEX RECEPTACLE
	SIMPLEX / DUPLEX RECEPTACLE CONTROLLED BY AUTOMATIC CONTROL DEVICE / SYSTEM
	QUAD RECEPTACLE
	ABOVE COUNTER DUPLEX RECEPTACLE (SIMILAR FOR TAMPER RESISTANT, QUADS, EMERGENCY AND GFI RECEPTACLES)
GFI	DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER
	DUPLEX EMERGENCY RECEPTACLE
USB	USB RECEPTACLE
CLG	CEILING MOUNTED DUPLEX RECEPTACLE
	POWER POLE - WIREMOLD TYPE
	SPECIAL RECEPTACLE - REFER TO ELECTRICAL STANDARD SCHEDULES
	MULTI-OUTLET RACEWAY - LEGRAND AL3300 OR EQUAL
PT	POKE-THROUGH ASSEMBLY - LEGRAND EVOLUTION SERIES OR EQUAL
FB	FLOOR BOX ASSEMBLY - LEGRAND EVOLUTION SERIES OR EQUAL
EQ	EQUIPMENT CONNECTION - REFER TO ELECTRICAL FEEDER AND PANEL SCHEDULE FOR BREAKER AND CONDUCTOR SIZE/QUANTITY
J	JUNCTION BOX
	BRANCH CIRCUIT PANEL BOARD - 208/120V
	DISTRIBUTION PANEL - 208/120V
	BRANCH CIRCUIT PANEL BOARD - 480/277V
	DISTRIBUTION PANEL - 480/277V
	SWITCHBOARD
	TRANSFORMER

SYMBOL	DESCRIPTION
F	MANUAL FIRE ALARM PULL STATION
SD	SMOKE DETECTOR
DD	DUCT SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
TD	THERMAL DETECTOR
F	FIRE ALARM BELL
F	FIRE ALARM AUDIBLE NOTIFICATION - WALL MOUNT SPEAKER/STROBE
F	FIRE ALARM VISUAL NOTIFICATION - WALL MOUNT SPEAKER/STROBE
F	FIRE ALARM AUDIBLE NOTIFICATION - CEILING MOUNT SPEAKER/STROBE
V	FIRE ALARM VISUAL NOTIFICATION - CEILING MOUNT STROBE
F	FIREFIGHTERS PHONE JACK
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
TS	TAMPER SWITCH
FS	FLOW SWITCH

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

ELECTRICAL DEVICE TYPICAL MOUNTING HEIGHTS

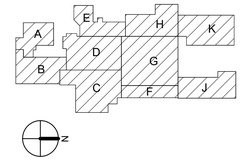


NOTES:
1. INSTALL ELECTRICAL DEVICES AT MOUNTING HEIGHTS NOTED ABOVE UNLESS OTHERWISE NOTED ON PLANS. COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO INSTALL.

ELECTRICAL GENERAL NOTES

1. CONTRACTOR TO PROCURE ALL REQUIRED BUILDING PERMITS AND INSPECTIONS TO COMPLETE PROJECT.
2. ALL WORK SHALL BE PERFORMED IN ACCORDINANCE WITH THE MICHIGAN ELECTRICAL CODE.
3. PROVIDE NEW ELECTRICAL SERVICES FROM CONSUMERS ENERGY AS INDICATED. COORDINATE SCOPE OF WORK AND PROVIDE ALL WORK TO PROVIDE A FULLY FUNCTIONAL ELECTRICAL SERVICE.
4. REMOVE ALL ELECTRICAL EQUIPMENT, WIRE, CONDUIT, ETC ASSOCIATED WITH DEMOLISHED EQUIPMENT.
5. REMOVE ALL ABANDONDED ELECTRICAL CONDUIT AND WIRE BACK TO SOURCE.
6. PATCH, REPAIR, AND PAINT ANY OPENINGS THROUGH ROOF, CEILINGS, WALLS, OR FLOORS TO MATCH EXISTING CONDITION.
7. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL DEMOLISHED EQUIPMENT.
8. MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE.
9. USE THE CONDUIT TYPE SUITABLE FOR THE ENVIRONMENT IN WHICH IS IS LOCATED:
   A. CONDUIT EXITING FROM UNDERGROUND SHALL TRANSITION TO EMT/RGS PRIOR TO BEING EXPOSED.
10. PROVIDE CONDUIT SLEEVES FOR LOW VOLTAGE DATA CABLING.
11. ALL CABLING SHALL BE IN CONDUIT UNLESS ABOVE AN ACCESSIBLE CEILING WHERE "J" HOOKS ARE ACCEPTABLE.
12. USE CONDUIT SWEEPS FOR ALL DATA CABLING CONDUITS.
13. DATA BOXES SHALL BE DOUBLE GANG, 3 1/2" DEEP WITH SINGLE GANG MUD RING WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.
14. ALL BOXES SHALL BE RECESSED IN WALLS AND CONDUIT CONCEALED WHERE POSSIBLE.
15. EMERGENCY CIRCUITS SHALL NOT BE IN CONDUIT WITH OTHER NON-EMERGNECY CIRCUITS.
16. MINIMUM CONDUCTOR SIZE FOR POWER SHALL BE #12 AWG. ANY BRANCH CIRCUITS OVER 100' IN LENGTH SHALL BE #10 AWG MINIMUM FOR VOLTAGE DROP.
17. PROVIDE THHN-2 COPPER INDOORS AND THWN-2 COPPER OUTDOORS, UNLESS NOTED OTHERWISE OR DICTATED OTHERWISE BY THE NEC.
18. PROVIDE GROUNDING ELECTRODE SYSTEM AND EQUIPMENT GROUNDING PER THE NATIONAL ELECTRIC CODE.
19. PANELBOARDS SHALL BE FULLY RATED, SERIES RATED PANELS ARE NOT ACCEPTABLE. PANELS SHALL HAVE HINGED SWING DOOR-IN-DOOR. LOAD CENTERS ARE NOT ACCEPTABLE. SQUARE D NQOD OR EQUAL FOR 208/120V BRANCH PANELBOARDS. SQUARE D NF OR EQUAL FOR 480/277V PANELBOARDS. PROVIDE TYPED PANELBOARD CIRCUIT LABEL CARDS. UPDATE ALL EXISTING LABEL CARDS AS REQUIRED.
20. SURGE PROTECTION DEVICES SHALL BE MOUNTED AS CLOSE TO MAIN BUS AS POSSIBLE TO LIMIT FEEDER LENGTH.
21. ALL FLOOR MOUNTED EQUIPMENT SHALL BE ON 4" HOUSEKEEPING PAD.
22. RECEPTACLES SHALL BE TAMPER-RESISTANT EXTRA HEAVY DUTY GRADE, 20AMP MINIMUM. WHITE IN COLOR UNLESS NOTED OTHERWISE.
23. ALL DEVICE COVERS SHALL MATCH DEVICE COLOR UNLESS STAINLESS STEEL COVERS ARE SPECIFIED.
24. WEATHERPROOF RECEPTACLE COVERS SHALL BE METAL, WHILE-IN-USE TYPE.
25. SWITCHES SHALL BE HEAVY DUTY GRADE, 20 AMP, QUIET TYPE, WHITE UNLESS NOTED OTHERWISE.
26. LIGHTING CONTROL DEVICES SHALL BE MANUFACTURED BY N-LIGHT, UNLESS NOTED OTHERWISE.
27. ALL LIGHTING CONTROLS SHALL BE MEET ASHRAE 90.1 - 2013 WITH MICHIGAN AMENDMENTS.
28. IT IS UNDERSTAND AND AGREED BY THE INSTALLER THAT WORK HEREIN DESCRIBED SHALL BE COMPLETE IN EVERY DETAIL, EVEN THOUGH EVERY ITEM INVOLVED IS NOT PARTICULARLY MENTIONED. INSTALLER SHALL BE HELD TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE WORK INTENDED AND DESCRIBED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUCH MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO, CONDUIT, FITTINGS, COVERPLATES, WIRING, BREAKERS, CONTROL DEVICES, LIGHTING ACCESSORIES, ETC. THIS ALSO INCLUDES EQUIPMENT REQUIRED BY STATE AND LOCAL CODES.

KEY PLAN



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MECHANICAL + ELECTRICAL DESIGN

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PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

ELECTRICAL SYMBOLS AND GENERAL NOTES

PROJECT NUMBER

23.138.2

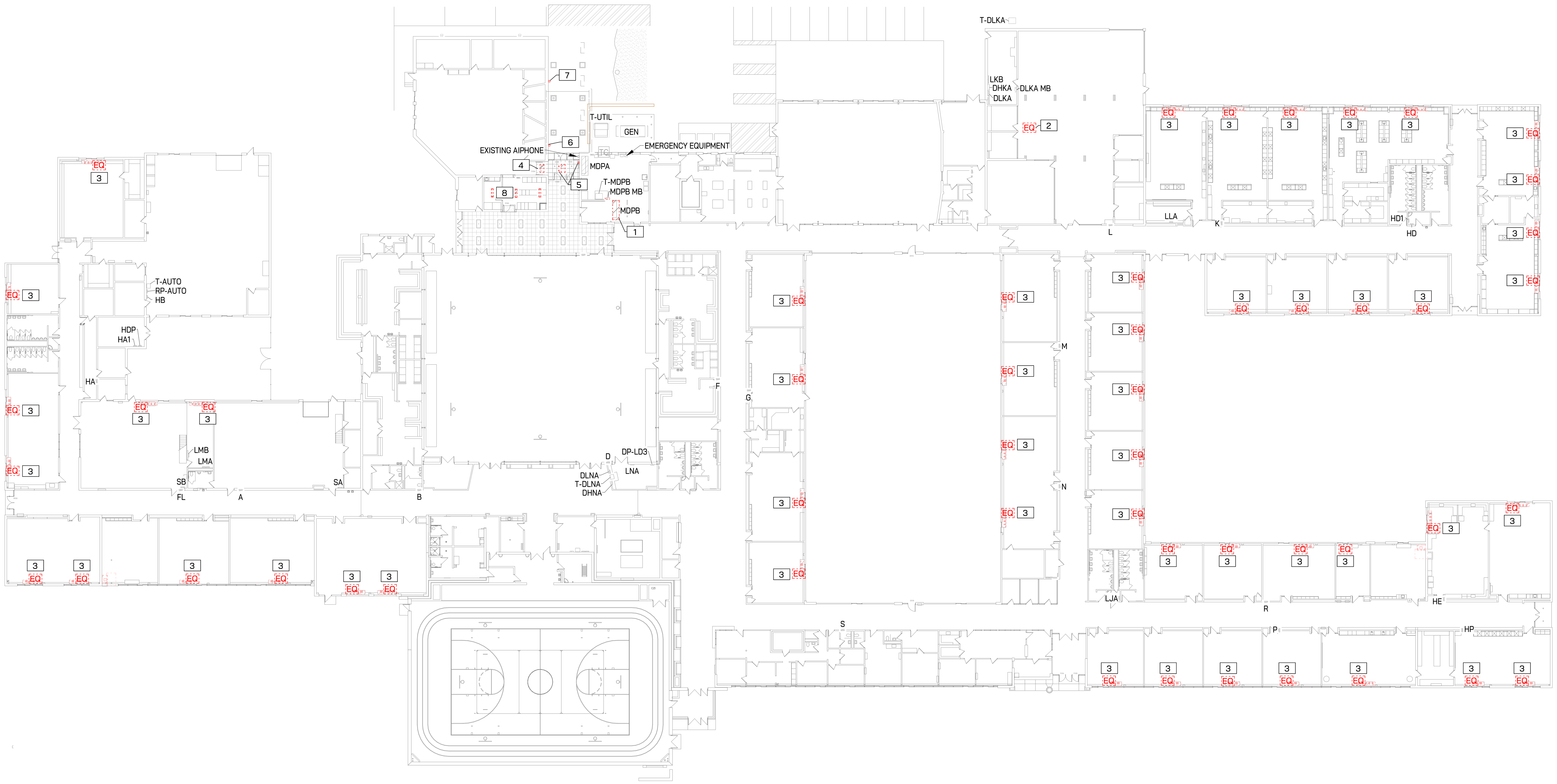
SHEET NUMBER

E000

2024-001 CHESANING BIG ROCK ELEMENTARY

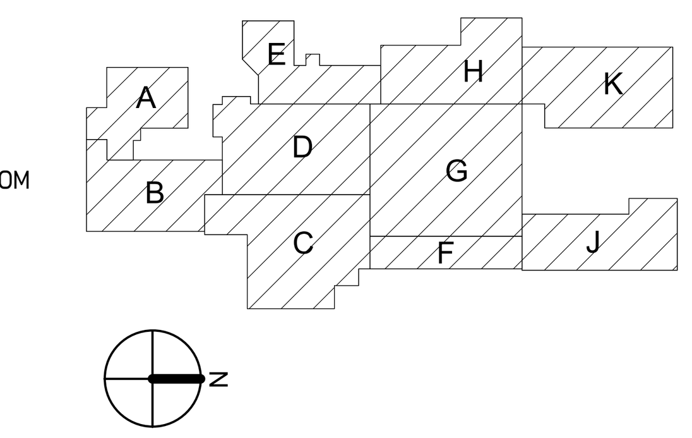
ELECTRICAL DEMOLITION KEYED NOTES

1. REMOVE EXISTING SWITCHBOARD AND ASSOCIATED FEEDER BACK TO TRANSFORMER. RETAIN ALL EXISTING BRANCH CIRCUITS FOR RECONNECTION TO NEW SWITCHBOARD IN NEW CONSTRUCTION.
2. REMOVE EXISTING CONDUIT AND FEEDER TO AHU BACK TO SOURCE. COORDINATE REMOVAL WITH MECHANICAL CONTRACTOR.
3. DISCONNECT EXISTING CIRCUIT TO MECHANICAL EQUIPMENT BEING REMOVED. RETAIN EXISTING CONDUIT AND WIRING FOR RECONNECTION IN NEW CONSTRUCTION.
4. REMOVE EXISTING LIGHT FIXTURES FROM FUTURE VESTIBULE SPACE. TURN BACK FIXTURES TO OWNER. RETAIN EXISTING CIRCUIT FOR REUSE IN NEW CONSTRUCTION.
5. DISCONNECT OCCUPANCY SENSOR, FIRE ALARM PULL STATION, AND PA SPEAKER FROM FUTURE VESTIBULE SPACE. RETAIN DEVICES FOR REINSTALLATION IN NEW CONSTRUCTION.
6. REMOVE EXISTING SECURITY CAMERA AND TURN BACK TO OWNER. PROVIDE BLANK COVER PLATE FOR OPENING IN BRICK.
7. REMOVE EXISTING WALL PACK LIGHT AND TURN BACK TO OWNER. PROVIDE BLANK COVER PLATE FOR OPENING IN BRICK.
8. REMOVE EXISTING LIGHT FIXTURES AND SWITCHES FROM MUSIC STORAGE ROOM. TURN BACK FIXTURES TO OWNER. RETAIN EXISTING CIRCUIT FOR REUSE IN NEW CONSTRUCTION.



1 ED110 OVERALL FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1" = 30'-0"
0 4' 8' 16'

KEY PLAN



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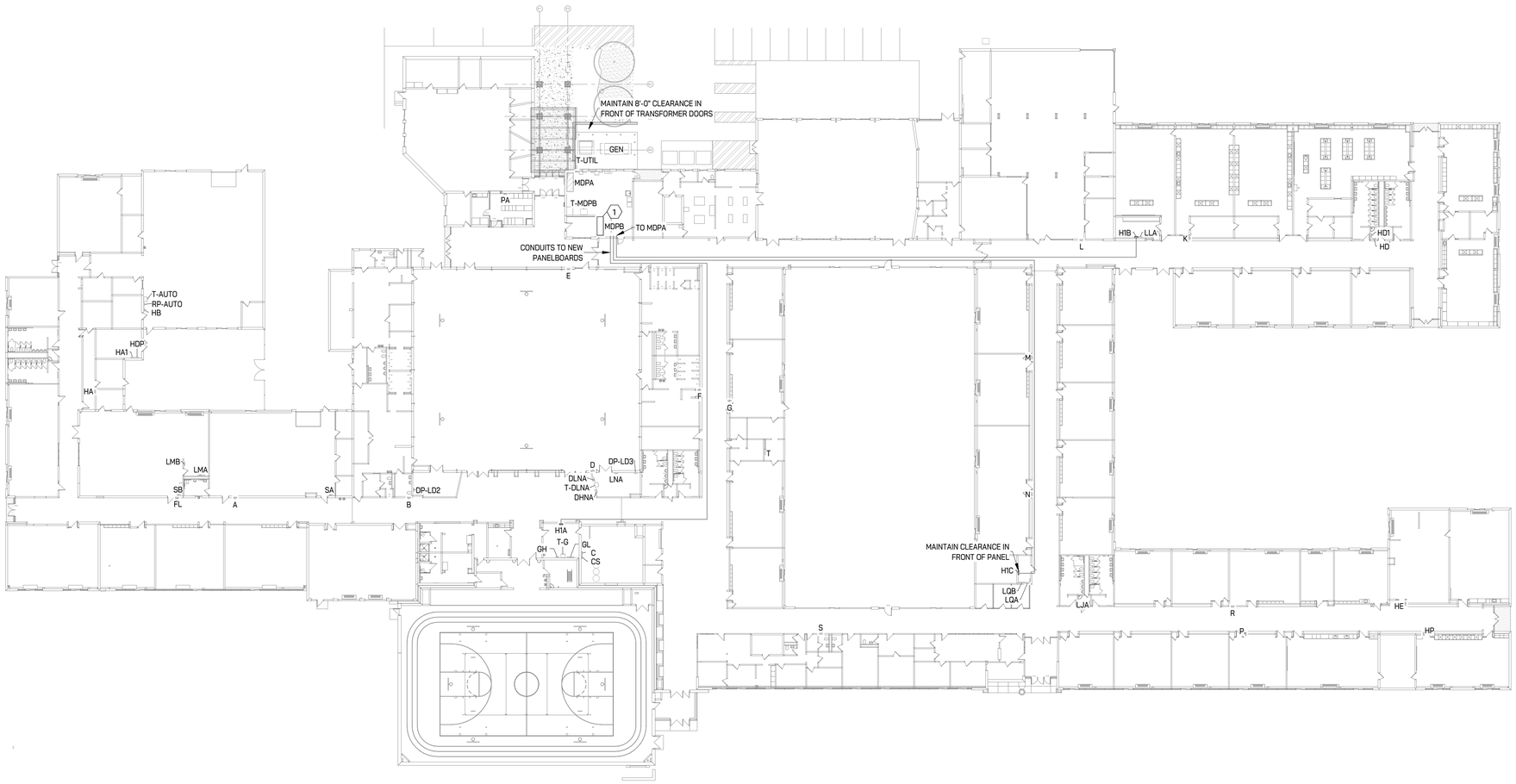


1 E110 OVERALL FIRST FLOOR ELECTRICAL PLAN
1" = 30'-0"
0 4' 8' 16'

ELECTRICAL POWER KEYED NOTES

1 REPLACE EXISTING SWITCHBOARD WITH NEW DISTRIBUTION PANEL (SQUARE D I-LINE OR EQUIVALENT). PROVIDE NEW CONDUIT AND FEEDER FROM SECONDARY SIDE OF EXISTING TRANSFORMER. RECONNECT ALL EXISTING BRANCH PANEL FEEDERS TO NEW PANEL. PROVIDE NEW TROUGH, UNISTRUT SUPPORTS, AND SAWCUTTING AS REQUIRED TO RECONNECT EXISTING BRANCH CIRCUITS TO NEW PANELBOARD. VERIFY ALL BREAKERS, WIRE SIZES, AND QUANTITIES IN FIELD PRIOR TO INSTALLATION. EXTEND CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE INSTALLATION OF NEW PANELBOARD.

2 PROVIDE (1) NEW 80A/3P BREAKER TO PANEL FOR NEW RTU. REFER TO ONE LINE DIAGRAM.

3 PROVIDE CONDUIT AND WIRING TO NEW MECHANICAL EQUIPMENT. REFER TO HVAC BRANCH CIRCUIT SCHEDULE. COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR.

4 PROVIDE CONDUIT AND WIRING TO NEW MECHANICAL EQUIPMENT ON ROOF. ROUTE CONDUIT ABOVE CEILING IN LEVEL BELOW AND UP TO UNIT. REFER TO HVAC BRANCH CIRCUIT SCHEDULE. COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DETAIL FOR ROOF CURB MOUNTING OF CONDUIT AND DISCONNECT.

5 RECONNECT EXISTING CIRCUIT TO NEW MECHANICAL UNIT. EXTEND CONDUIT AND WIRING AS REQUIRED. CONCEAL FEED WITHIN NEW PIPE CHASE BY OTHERS. NO CONDUIT SHALL BE EXPOSED.

6 PROVIDE NEW GENERATOR TRANSFER DEVICE (GTD) FOR EMERGENCY LIGHTING. CONNECT TO EXISTING LIFE SAFETY CIRCUIT FROM PANEL INDICATED. EXTEND CONDUIT/WIRING AS REQUIRED.

7 INSTALL LIGHT FIXTURES IN NEW EXTERIOR SOFFIT. REMOVE EXISTING LIGHTS AND TURN BACK TO OWNER. EXTEND LIFE SAFETY CIRCUIT FROM EXISTING CORRIDOR TO NEW LIGHTS. TIE LIGHTS INTO EXISTING BUILDING LIGHTING CONTROLS.

8 RECONNECT EXISTING LIGHTING CIRCUIT TO NEW LIGHT FIXTURES. EXTEND CONDUIT AND WIRING AS REQUIRED.

9 RELOCATE FIRE ALARM PULL STATION MADE AVAILABLE THROUGH DEMOLITION TO NEW LOCATION. EXTEND CONDUIT AND CABLING AS REQUIRED.

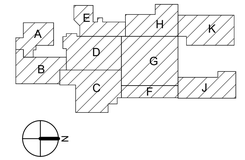
10 ADD NEW FIRE ALARM DEVICE TO LOCATION INDICATED. EXTEND CONDUIT AND CABLING TO TIE INTO BUILDING FIRE ALARM SYSTEM.

11 PROVIDE ACCESS CONTROL ROUGH-IN LOCATIONS FOR ALL NEW DOORS IN VESTIBULE. REFER TO ACCESS CONTROL DETAIL. COORDINATE FINAL CONNECTIONS WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.

12 DISCONNECT AND REMOVE EXISTING MANUAL TIME CLOCK SWITCH CONTROLLING LIGHT FIXTURE. LIGHT FIXTURE SHALL BE TIED TO EXISTING SCHNEIDER ELECTRIC CONTROLS LOCATED IN MAIN ELECTRICAL ROOM. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

13 EXISTING SCHNEIDER ELECTRIC LIGHTING CONTROL SYSTEM LOCATION. TIE ALL NEW EXTERIOR LIGHT FIXTURES (AND EXISTING WHERE NOTED) TO EXISTING SYSTEM. PROVIDE RELAYS AND USER INTERFACE FOR ADDITIONAL CIRCUITS ADDED TO SYSTEM. COORDINATE TIME SCHEDULE FOR LIGHTING WITH OWNER PRIOR TO INSTALLATION.

KEY PLAN



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Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

OVERALL FIRST FLOOR ELECTRICAL PLAN

PROJECT NUMBER

23.138.2

SHEET NUMBER

E110

2024-02 CHESANING BIG ROCK ELEMENTARY

1 E110A FIRST FLOOR ELECTRICAL PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

ELECTRICAL POWER KEYED NOTES

1 REPLACE EXISTING SWITCHBOARD WITH NEW DISTRIBUTION PANEL (SQUARE D I-LINE OR EQUIVALENT). PROVIDE NEW CONDUIT AND FEEDER FROM SECONDARY SIDE OF EXISTING TRANSFORMER. RECONNECT ALL EXISTING BRANCH PANEL FEEDERS TO NEW PANEL. PROVIDE NEW TROUGH, UNISTRUT SUPPORTS, AND SAWCUTTING AS REQUIRED TO RECONNECT EXISTING BRANCH CIRCUITS TO NEW PANELBOARD. VERIFY ALL BREAKERS, WIRE SIZES, AND QUANTITIES IN FIELD PRIOR TO INSTALLATION. EXTEND CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE INSTALLATION OF NEW PANELBOARD.

2 PROVIDE (1) NEW 80A/3P BREAKER TO PANEL FOR NEW RTU. REFER TO ONE LINE DIAGRAM.

3 PROVIDE CONDUIT AND WIRING TO NEW MECHANICAL EQUIPMENT. REFER TO HVAC BRANCH CIRCUIT SCHEDULE. COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR.

4 PROVIDE CONDUIT AND WIRING TO NEW MECHANICAL EQUIPMENT ON ROOF. ROUTE CONDUIT ABOVE CEILING IN LEVEL BELOW AND UP TO UNIT. REFER TO HVAC BRANCH CIRCUIT SCHEDULE. COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DETAIL FOR ROOF CURB MOUNTING OF CONDUIT AND DISCONNECT.

5 RECONNECT EXISTING CIRCUIT TO NEW MECHANICAL UNIT. EXTEND CONDUIT AND WIRING AS REQUIRED. CONCEAL FEED WITHIN NEW PIPE CHASE BY OTHERS. NO CONDUIT SHALL BE EXPOSED.

6 PROVIDE NEW GENERATOR TRANSFER DEVICE (GTD) FOR EMERGENCY LIGHTING. CONNECT TO EXISTING LIFE SAFETY CIRCUIT FROM PANEL INDICATED. EXTEND CONDUIT/WIRING AS REQUIRED.

7 INSTALL LIGHT FIXTURES IN NEW EXTERIOR SOFFIT. REMOVE EXISTING LIGHTS AND TURN BACK TO OWNER. EXTEND LIFE SAFETY CIRCUIT FROM EXISTING CORRIDOR TO NEW LIGHTS. TIE LIGHTS INTO EXISTING BUILDING LIGHTING CONTROLS.

8 RECONNECT EXISTING LIGHTING CIRCUIT TO NEW LIGHT FIXTURES. EXTEND CONDUIT AND WIRING AS REQUIRED.

9 RELOCATE FIRE ALARM PULL STATION MADE AVAILABLE THROUGH DEMOLITION TO NEW LOCATION. EXTEND CONDUIT AND CABLING AS REQUIRED.

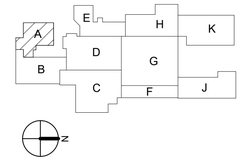
10 ADD NEW FIRE ALARM DEVICE TO LOCATION INDICATED. EXTEND CONDUIT AND CABLING TO TIE INTO BUILDING FIRE ALARM SYSTEM.

11 PROVIDE ACCESS CONTROL ROUGH-IN LOCATIONS FOR ALL NEW DOORS IN VESTIBULE. REFER TO ACCESS CONTROL DETAIL. COORDINATE FINAL CONNECTIONS WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.

12 DISCONNECT AND REMOVE EXISTING MANUAL TIME CLOCK SWITCH CONTROLLING LIGHT FIXTURE. LIGHT FIXTURE SHALL BE TIED TO EXISTING SCHNEIDER ELECTRIC CONTROLS LOCATED IN MAIN ELECTRICAL ROOM. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

13 EXISTING SCHNEIDER ELECTRIC LIGHTING CONTROL SYSTEM LOCATION. TIE ALL NEW EXTERIOR LIGHT FIXTURES (AND EXISTING WHERE NOTED) TO EXISTING SYSTEM. PROVIDE RELAYS AND USER INTERFACE FOR ADDITIONAL CIRCUITS ADDED TO SYSTEM. COORDINATE TIME SCHEDULE FOR LIGHTING WITH OWNER PRIOR TO INSTALLATION.

KEY PLAN



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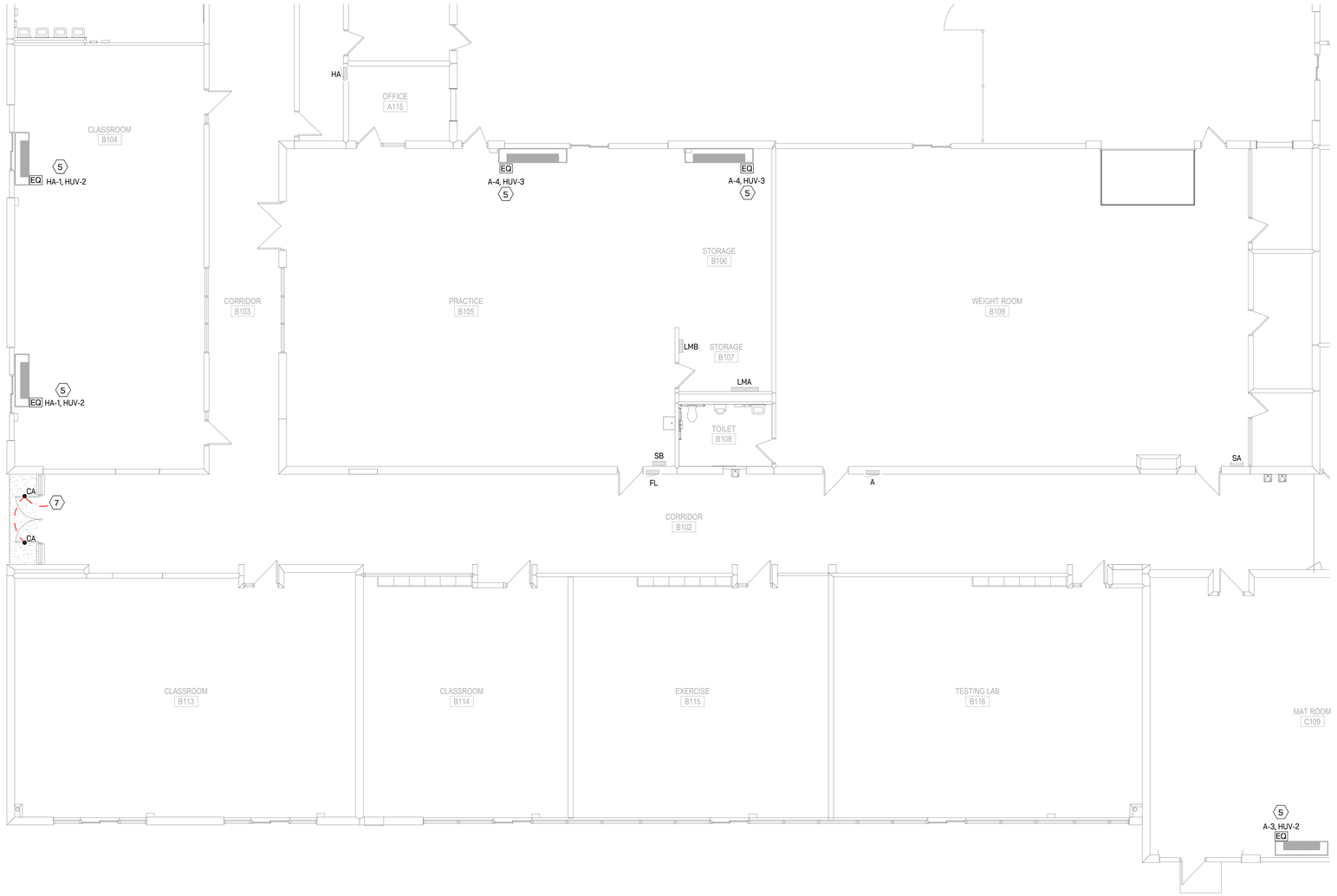

1 E110B FIRST FLOOR ELECTRICAL PLAN - UNIT B
1/8" = 1'-0"
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ELECTRICAL POWER KEYED NOTES

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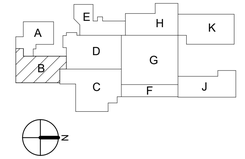

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APPROVED	Approver

IGNYTE
MECHANICAL + ELECTRICAL DESIGN

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

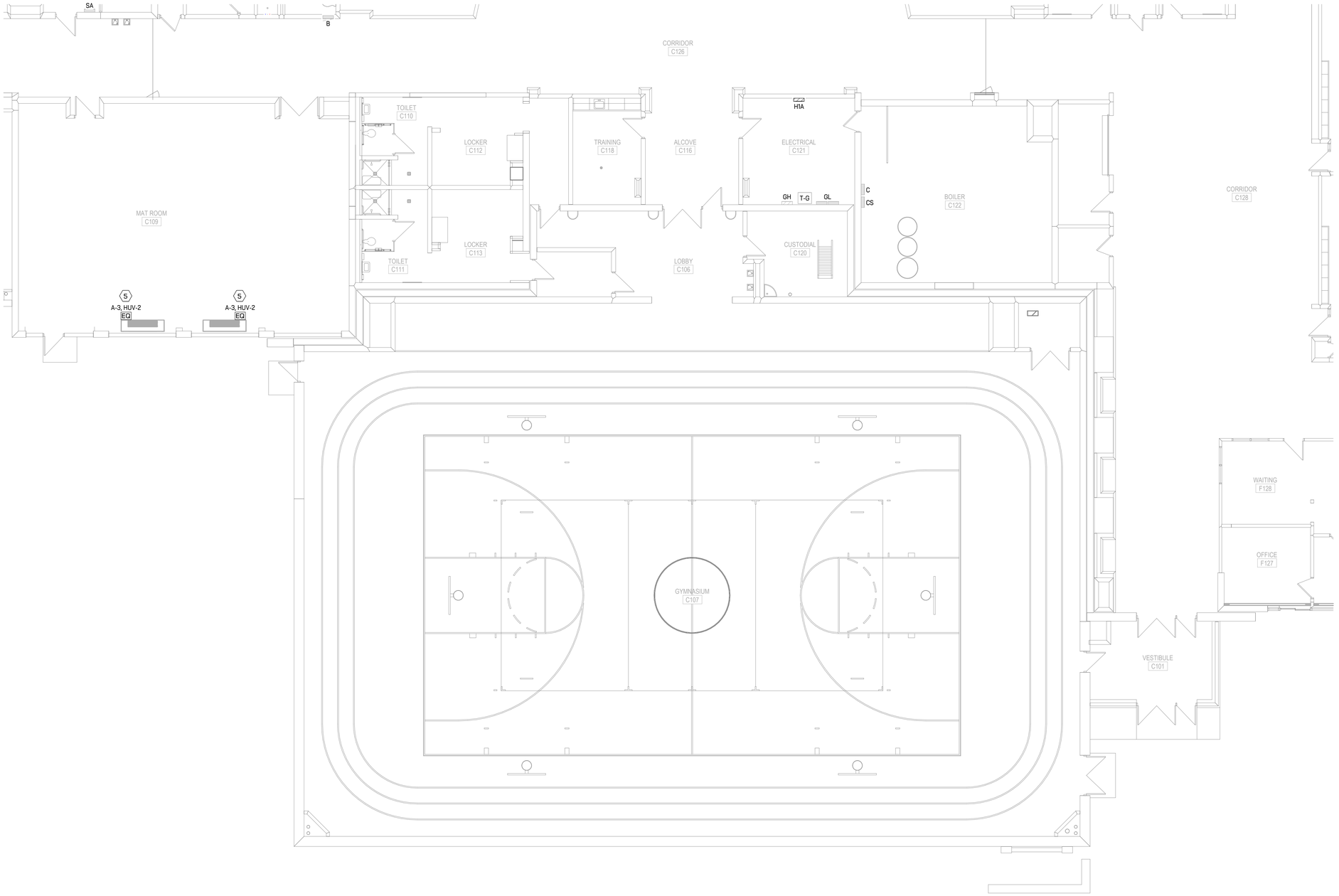
FIRST FLOOR ELECTRICAL PLAN - UNIT B

PROJECT NUMBER

23.138.2

SHEET NUMBER

E110B



1 E110C FIRST FLOOR ELECTRICAL PLAN - UNIT C
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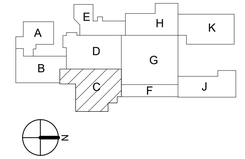

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PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

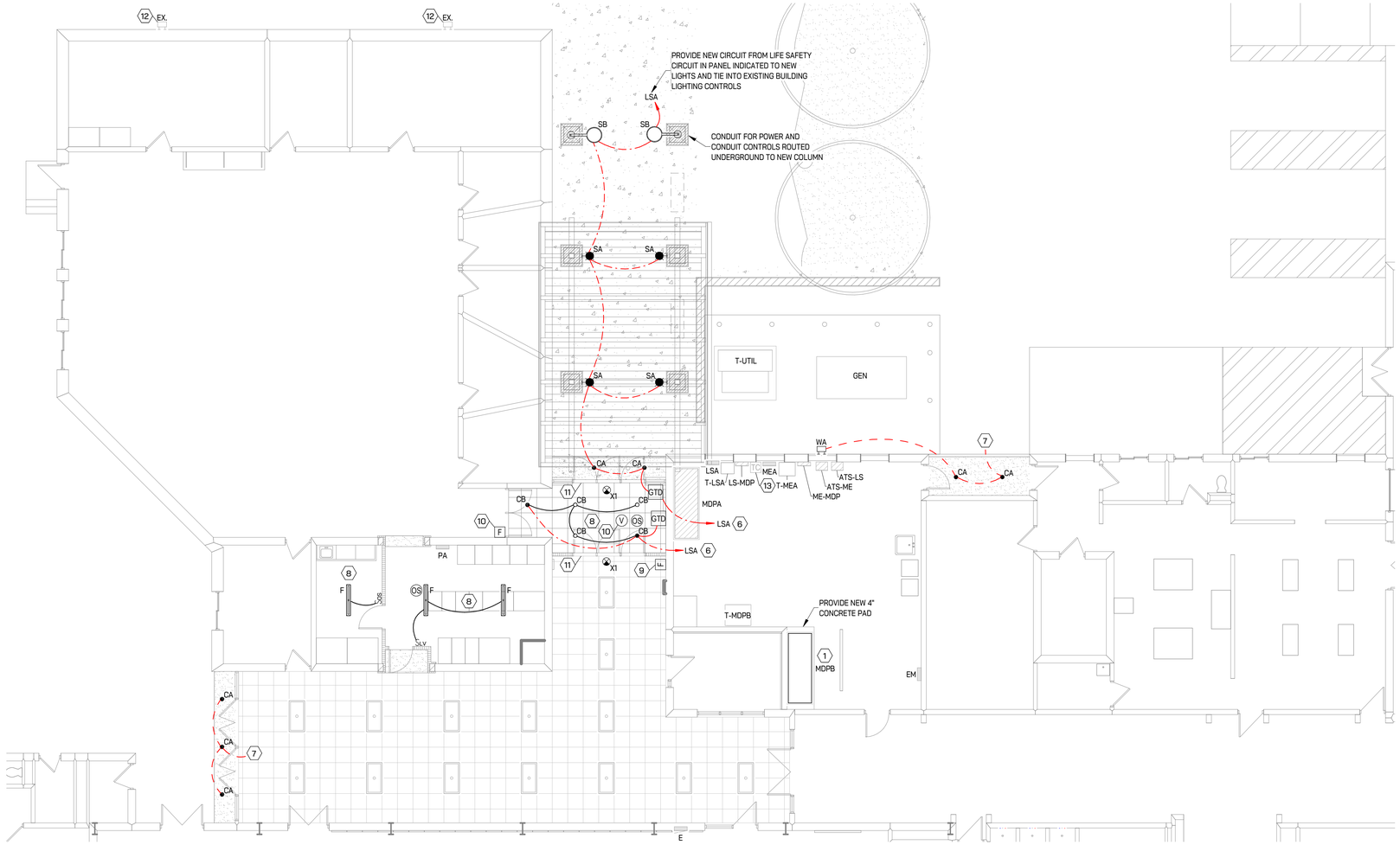
FIRST FLOOR ELECTRICAL PLAN - UNIT C

PROJECT NUMBER

23.138.2

SHEET NUMBER

E110C



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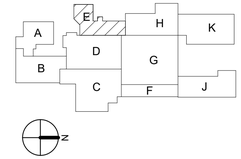

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PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

FIRST FLOOR ELECTRICAL PLAN - UNIT E

PROJECT NUMBER

23.138.2

SHEET NUMBER

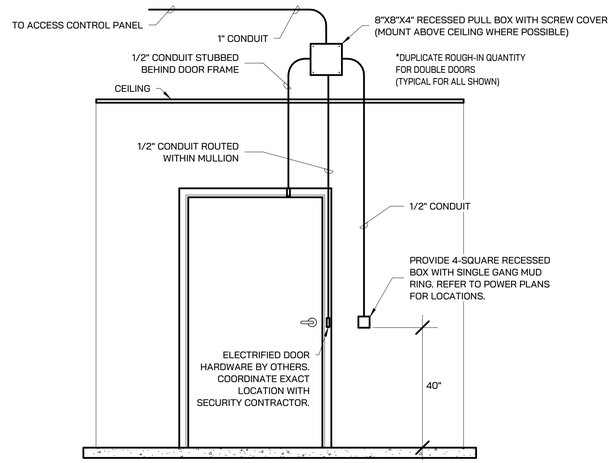
E110E

2024-025 CHESANING BIG ROCK ELEMENTARY

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	DRIVER	LOAD	MANUFACTURER
CA	6" ROUND DOWNLIGHT - EXTERIOR	RECESSED	0-10V	19 VA	LUMINAIRE LED: #VRDL6-MIN1-ZT-2000LM-WD-40K-80CRI-MVOLT-CPL-(FINISH)
CB	6" ROUND DOWNLIGHT	RECESSED	0-10V	19 VA	LITHONIA: #LDN6-AL02-SWW1-L06-AR-LSS-WD-MVOLT-UGZ
F	SURFACE LINEAR	SURFACE	0-10V	45 VA	KENALL: #MLHA5-48-F-MW-PP-45L40K-DCC-DV
SA	SCONCE - EXTERIOR	SURFACE	0-10V	24 VA	OCL: #VA2-010A-08-WF-(FINISH)-LED2-40K-940K-UNV-DM1
SB	SITE LIGHT - SINGLE HEAD	8' POLE	N/A	49 VA	LITHONIA: #MR1-LED-42C-350-40K-SR2-MVOLT-SPA-DDBXD W/ 8' SQUARE ALUMINUM POLE WITH FINISH TO MATCH FIXTURE
WA	EXTERIOR WALL PACK	SURFACE	N/A	43 VA	LITHONIA: #WDGE2-LED-P4-40K-VW-MVOLT-SRM-E10WH-DDBXD
X1	EXIT SIGN	SURFACE	N/A	5 VA	LITHONIA: #LE-S-W-1-R

GENERAL NOTES:
1. ALL EMERGENCY LIGHTS SHALL BE PROVIDED WITH GENERATOR TRANSFER DEVICE (GTD) PER SWITCH ZONE AND TIED TO LIFE SAFETY EMERGENCY CIRCUIT. LIGHTS SHALL TURN ON TO 100% UPON LOSS OF POWER AND STAY ILLUMINATED FOR A MINIMUM OF 90 MINS.
2. FIELD VERIFY ALL EXISTING LIGHTING CIRCUITS BEING REWORKED PRIOR TO INSTALLATION OF NEW LIGHT FIXTURES. EXTEND CONDUIT/WIRING TO NEW LIGHTING LOCATIONS AS REQUIRED.
2. ALL LOW VOLTAGE LIGHTING CONTROLS WITHIN PROJECT SHALL BE nLIGHT 0-10V STANDALONE SYSTEM TYPE, UNLESS NOTED OTHERWISE.



2 E110E TYPICAL ACCESS CONTROL ROUGH IN DETAIL
NOT TO SCALE

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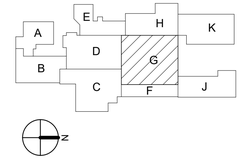

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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

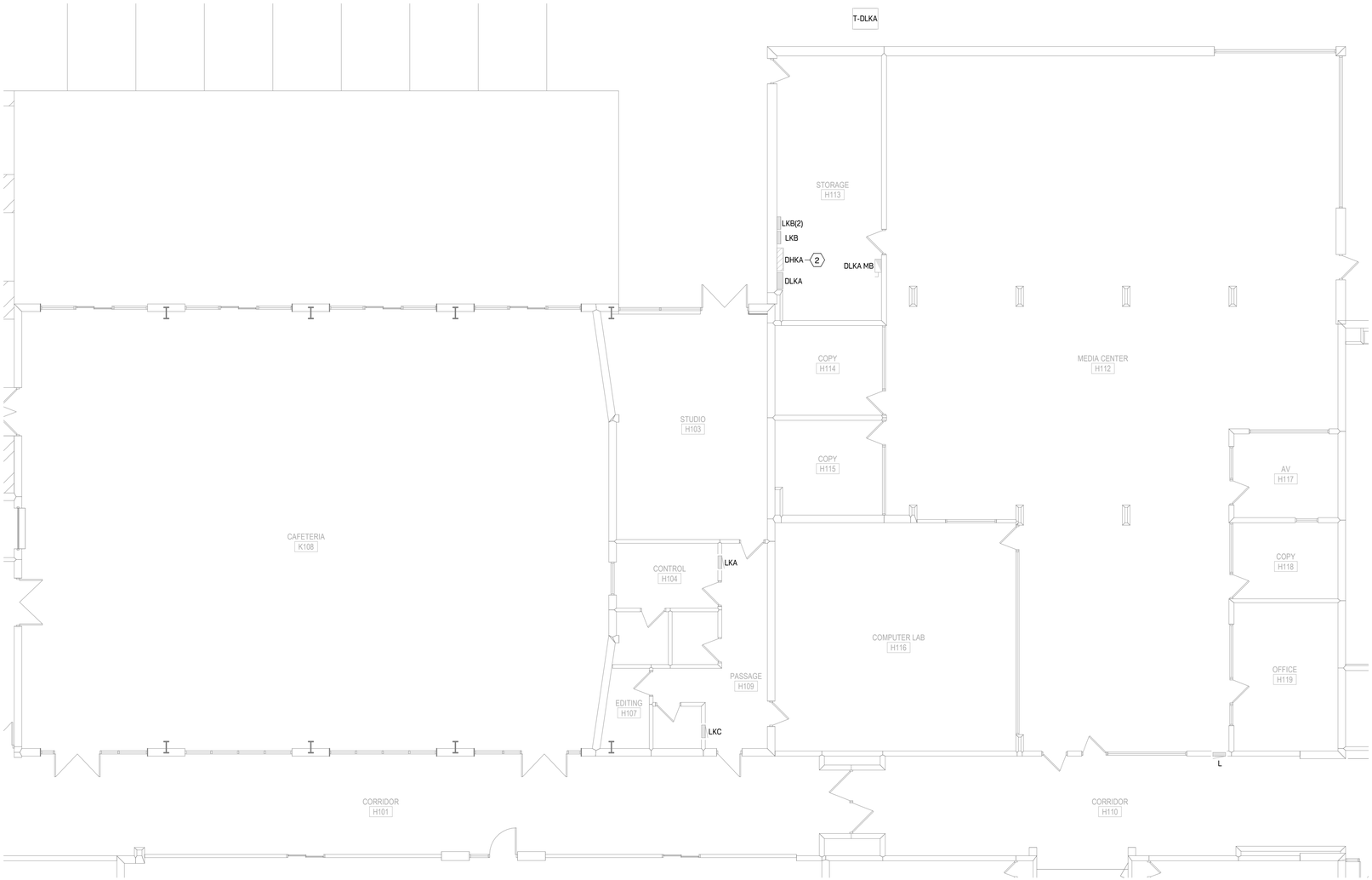
Chesaning,
Michigan

SHEET
FIRST FLOOR ELECTRICAL PLAN - UNIT G

PROJECT NUMBER
23.138.2

SHEET NUMBER
E110G

2024-02 CHESANING BIG ROCK ELEMENTARY



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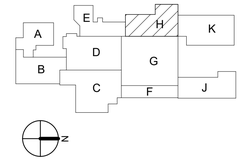

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SHEET

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2024-062 CHESANING BIG ROCK ELEMENTARY

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5 RECONNECT EXISTING CIRCUIT TO NEW MECHANICAL UNIT. EXTEND CONDUIT AND WIRING AS REQUIRED. CONCEAL FEED WITHIN NEW PIPE CHASE BY OTHERS. NO CONDUIT SHALL BE EXPOSED.

6 PROVIDE NEW GENERATOR TRANSFER DEVICE (GTD) FOR EMERGENCY LIGHTING. CONNECT TO EXISTING LIFE SAFETY CIRCUIT FROM PANEL INDICATED. EXTEND CONDUIT/WIRING AS REQUIRED.

ELECTRICAL POWER KEYED NOTES

7 INSTALL LIGHT FIXTURES IN NEW EXTERIOR SOFFIT. REMOVE EXISTING LIGHTS AND TURN BACK TO OWNER. EXTEND LIFE SAFETY CIRCUIT FROM EXISTING CORRIDOR TO NEW LIGHTS. TIE LIGHTS INTO EXISTING BUILDING LIGHTING CONTROLS.

8 RECONNECT EXISTING LIGHTING CIRCUIT TO NEW LIGHT FIXTURES. EXTEND CONDUIT AND WIRING AS REQUIRED.

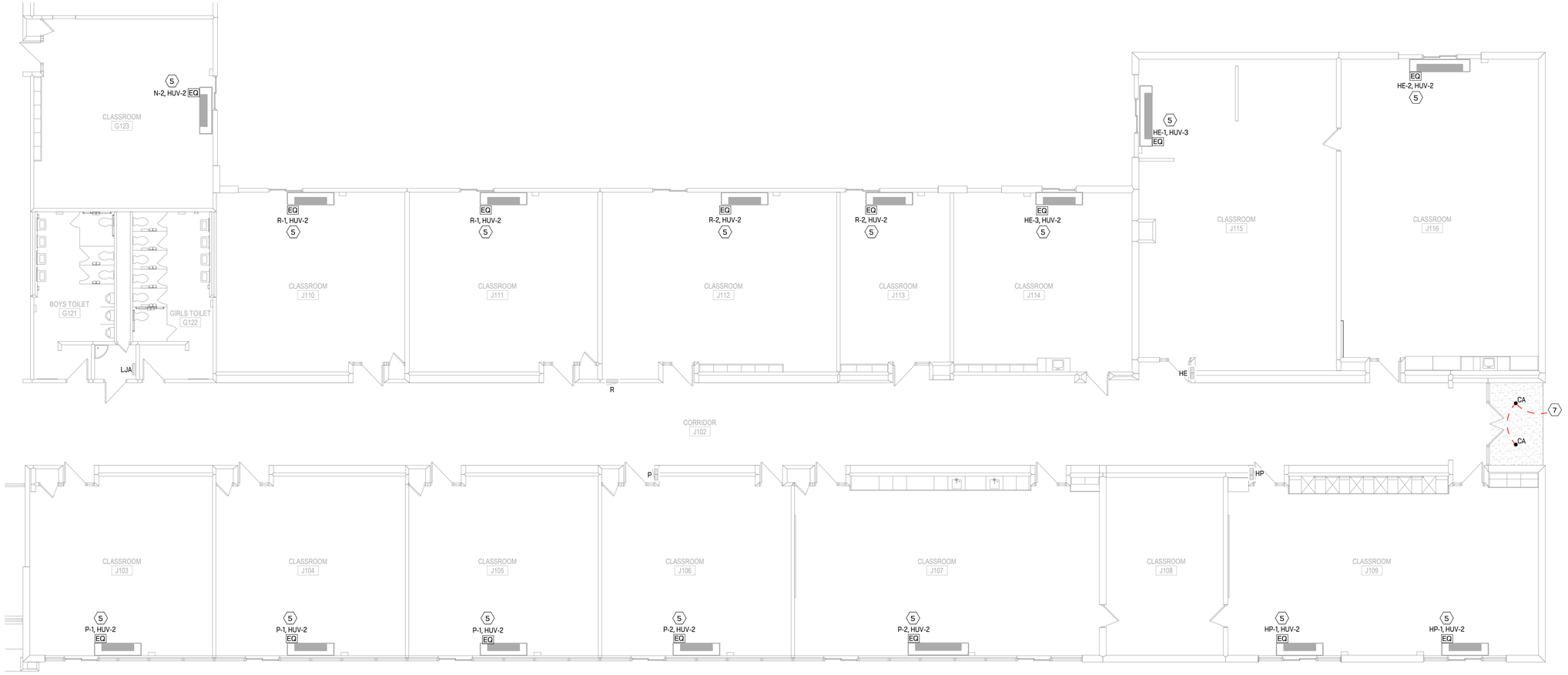
9 RELOCATE FIRE ALARM PULL STATION MADE AVAILABLE THROUGH DEMOLITION TO NEW LOCATION. EXTEND CONDUIT AND CABLING AS REQUIRED.

10 ADD NEW FIRE ALARM DEVICE TO LOCATION INDICATED. EXTEND CONDUIT AND CABLING TO TIE INTO BUILDING FIRE ALARM SYSTEM.

11 PROVIDE ACCESS CONTROL ROUGH-IN LOCATIONS FOR ALL NEW DOORS IN VESTIBULE. REFER TO ACCESS CONTROL DETAIL. COORDINATE FINAL CONNECTIONS WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.

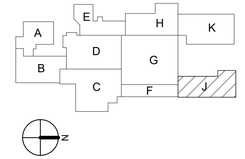
12 DISCONNECT AND REMOVE EXISTING MANUAL TIME CLOCK SWITCH CONTROLLING LIGHT FIXTURE. LIGHT FIXTURE SHALL BE TIED TO EXISTING SCHNEIDER ELECTRIC CONTROLS LOCATED IN MAIN ELECTRICAL ROOM. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

13 EXISTING SCHNEIDER ELECTRIC LIGHTING CONTROL SYSTEM LOCATION. TIE ALL NEW EXTERIOR LIGHT FIXTURES (AND EXISTING WHERE NOTED) TO EXISTING SYSTEM. PROVIDE RELAYS AND USER INTERFACE FOR ADDITIONAL CIRCUITS ADDED TO SYSTEM. COORDINATE TIME SCHEDULE FOR LIGHTING WITH OWNER PRIOR TO INSTALLATION.



1 E110J FIRST FLOOR ELECTRICAL PLAN - UNIT J
1/8" = 1'-0"
0 4' 8' 16'

KEY PLAN



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CHECKED Checker
APPROVED Approver

IGNYTE
MECHANICAL + ELECTRICAL DESIGN

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Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

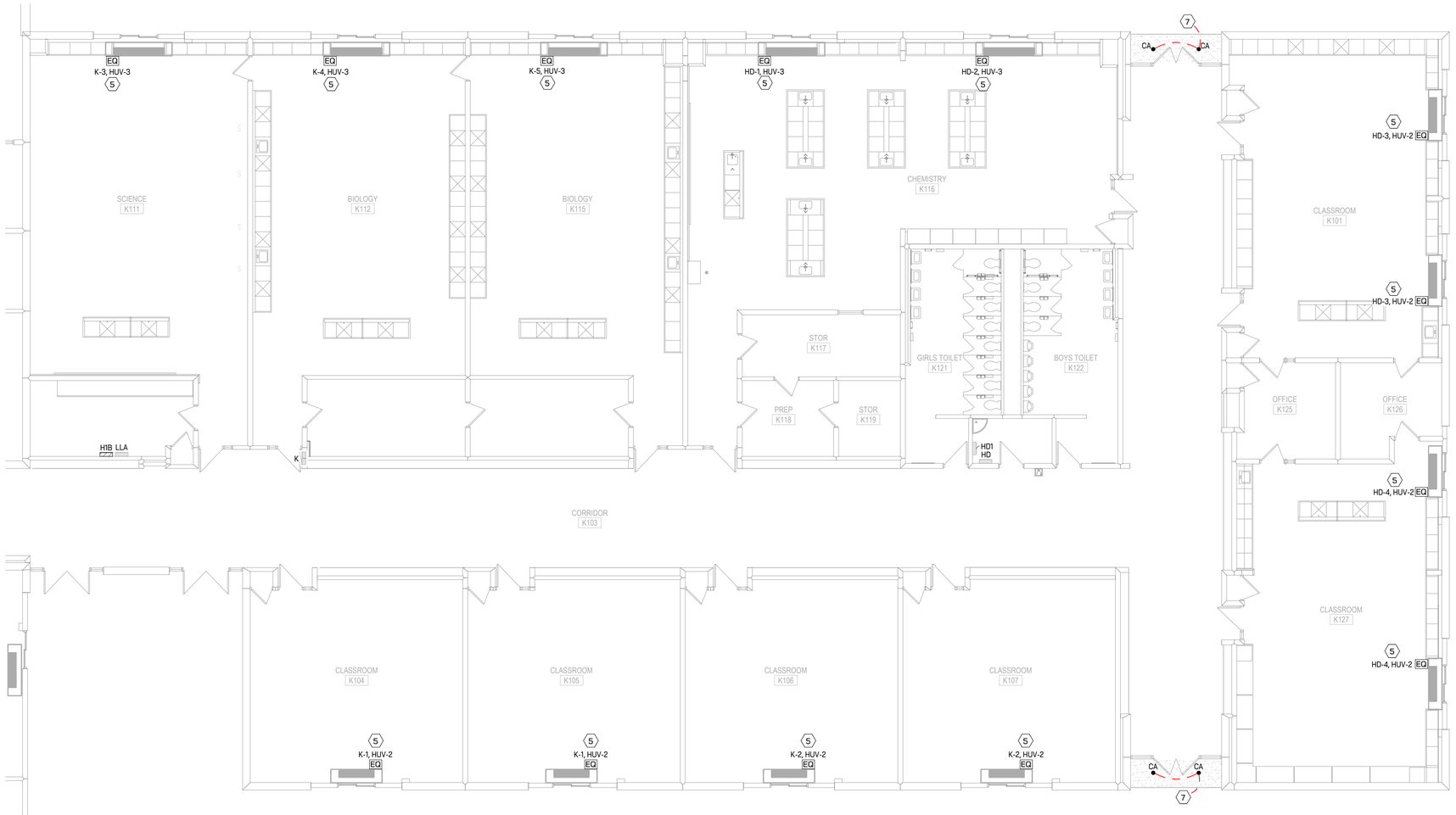
Chesaning,
Michigan

SHEET
FIRST FLOOR ELECTRICAL PLAN - UNIT J

PROJECT NUMBER
23.138.2

SHEET NUMBER
E110J

2024-022 CHESANING BAY ROCK ELEMENTARY



1 E110K FIRST FLOOR ELECTRICAL PLAN - UNIT K

1/8" = 1'-0"

0 4' 8' 16'

ELECTRICAL POWER KEYED NOTES

1 REPLACE EXISTING SWITCHBOARD WITH NEW DISTRIBUTION PANEL (SQUARE D I-LINE OR EQUIVALENT). PROVIDE NEW CONDUIT AND FEEDER FROM SECONDARY SIDE OF EXISTING TRANSFORMER. RECONNECT ALL EXISTING BRANCH PANEL FEEDERS TO NEW PANEL. PROVIDE NEW TROUGH, UNISTRUT SUPPORTS, AND SAWCUTTING AS REQUIRED TO RECONNECT EXISTING BRANCH CIRCUITS TO NEW PANELBOARD. VERIFY ALL BREAKERS, WIRE SIZES, AND QUANTITIES IN FIELD PRIOR TO INSTALLATION. EXTEND CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE INSTALLATION OF NEW PANELBOARD.

2 PROVIDE (1) NEW 80A/3P BREAKER TO PANEL FOR NEW RTU. REFER TO ONE LINE DIAGRAM.

3 PROVIDE CONDUIT AND WIRING TO NEW MECHANICAL EQUIPMENT. REFER TO HVAC BRANCH CIRCUIT SCHEDULE. COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR.

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5 RECONNECT EXISTING CIRCUIT TO NEW MECHANICAL UNIT. EXTEND CONDUIT AND WIRING AS REQUIRED. CONCEAL FEED WITHIN NEW PIPE CHASE BY OTHERS. NO CONDUIT SHALL BE EXPOSED.

6 PROVIDE NEW GENERATOR TRANSFER DEVICE (GTD) FOR EMERGENCY LIGHTING. CONNECT TO EXISTING LIFE SAFETY CIRCUIT FROM PANEL INDICATED. EXTEND CONDUIT/WIRING AS REQUIRED.

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8 RECONNECT EXISTING LIGHTING CIRCUIT TO NEW LIGHT FIXTURES. EXTEND CONDUIT AND WIRING AS REQUIRED.

9 RELOCATE FIRE ALARM PULL STATION MADE AVAILABLE THROUGH DEMOLITION TO NEW LOCATION. EXTEND CONDUIT AND CABLING AS REQUIRED.

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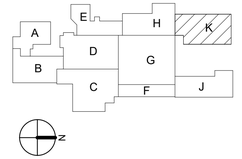
KEY PLAN



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APPROVED	Approver

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MECHANICAL + ELECTRICAL DESIGN

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248.656.1377

PROJECT

Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET

FIRST FLOOR ELECTRICAL PLAN - UNIT K

PROJECT NUMBER

23.138.2

SHEET NUMBER

E110K

ELECTRICAL POWER KEYED NOTES

1 REPLACE EXISTING SWITCHBOARD WITH NEW DISTRIBUTION PANEL (SQUARE D I-LINE OR EQUIVALENT). PROVIDE NEW CONDUIT AND FEEDER FROM SECONDARY SIDE OF EXISTING TRANSFORMER. RECONNECT ALL EXISTING BRANCH PANEL FEEDERS TO NEW PANEL. PROVIDE NEW TROUGH, UNISTRUT SUPPORTS, AND SAWCUTTING AS REQUIRED TO RECONNECT EXISTING BRANCH CIRCUITS TO NEW PANELBOARD. VERIFY ALL BREAKERS, WIRE SIZES, AND QUANTITIES IN FIELD PRIOR TO INSTALLATION. EXTEND CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE INSTALLATION OF NEW PANELBOARD.

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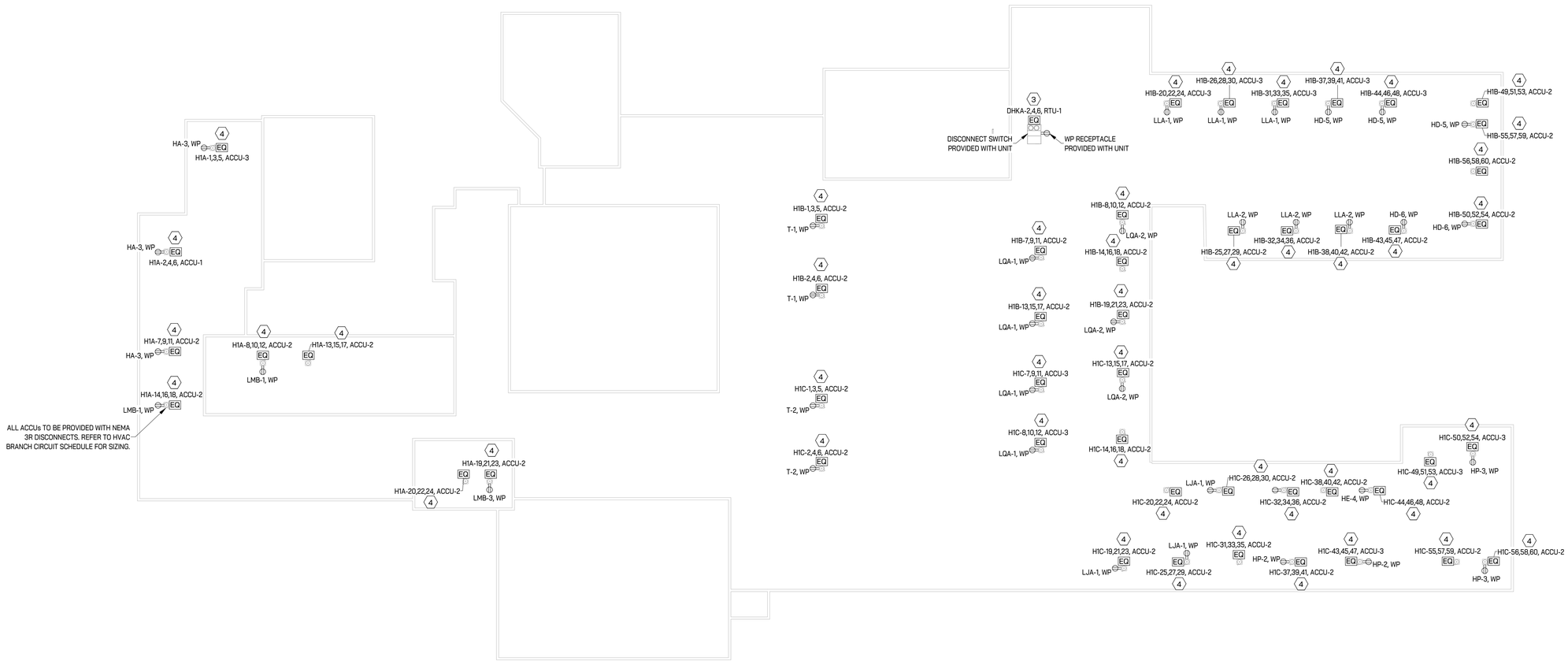
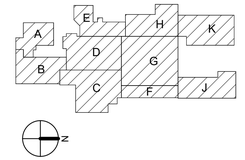


1 / E120 OVERALL ROOF ELECTRICAL PLAN
1" = 30'-0"
0 8' 16' 24'

KEY PLAN



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PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

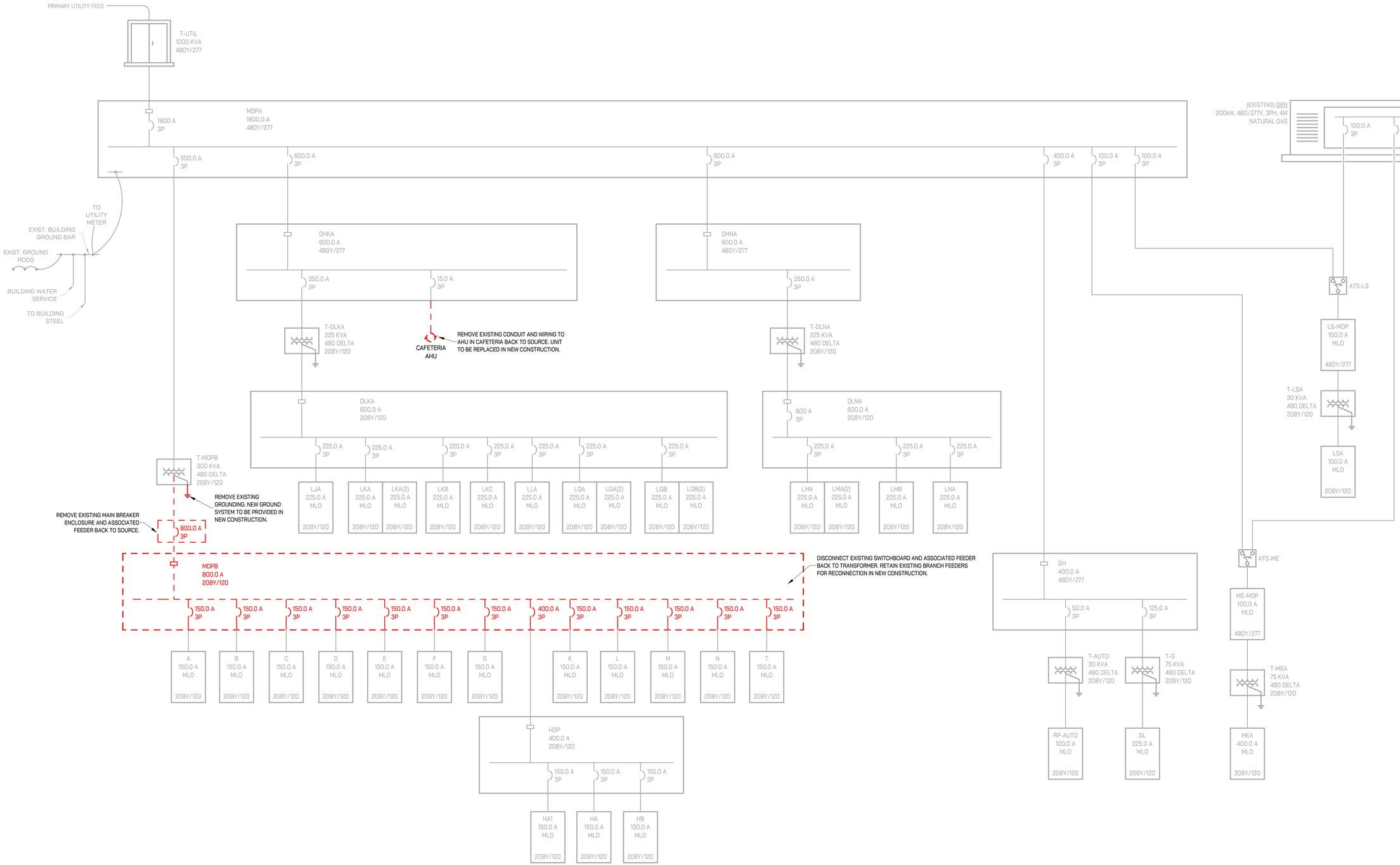
Chesaning,
Michigan

SHEET
OVERALL ROOF ELECTRICAL PLAN

PROJECT NUMBER
23.138.2

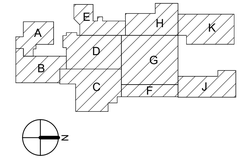
SHEET NUMBER
E120

2024-022 CHESANING BIG ROCK ELEMENTARY



1 E401 ELECTRICAL ONE LINE DIAGRAM - DEMOLITION
3/4" = 1'-0"

KEY PLAN



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ELECTRICAL ONE LINE DIAGRAM - DEMOLITION

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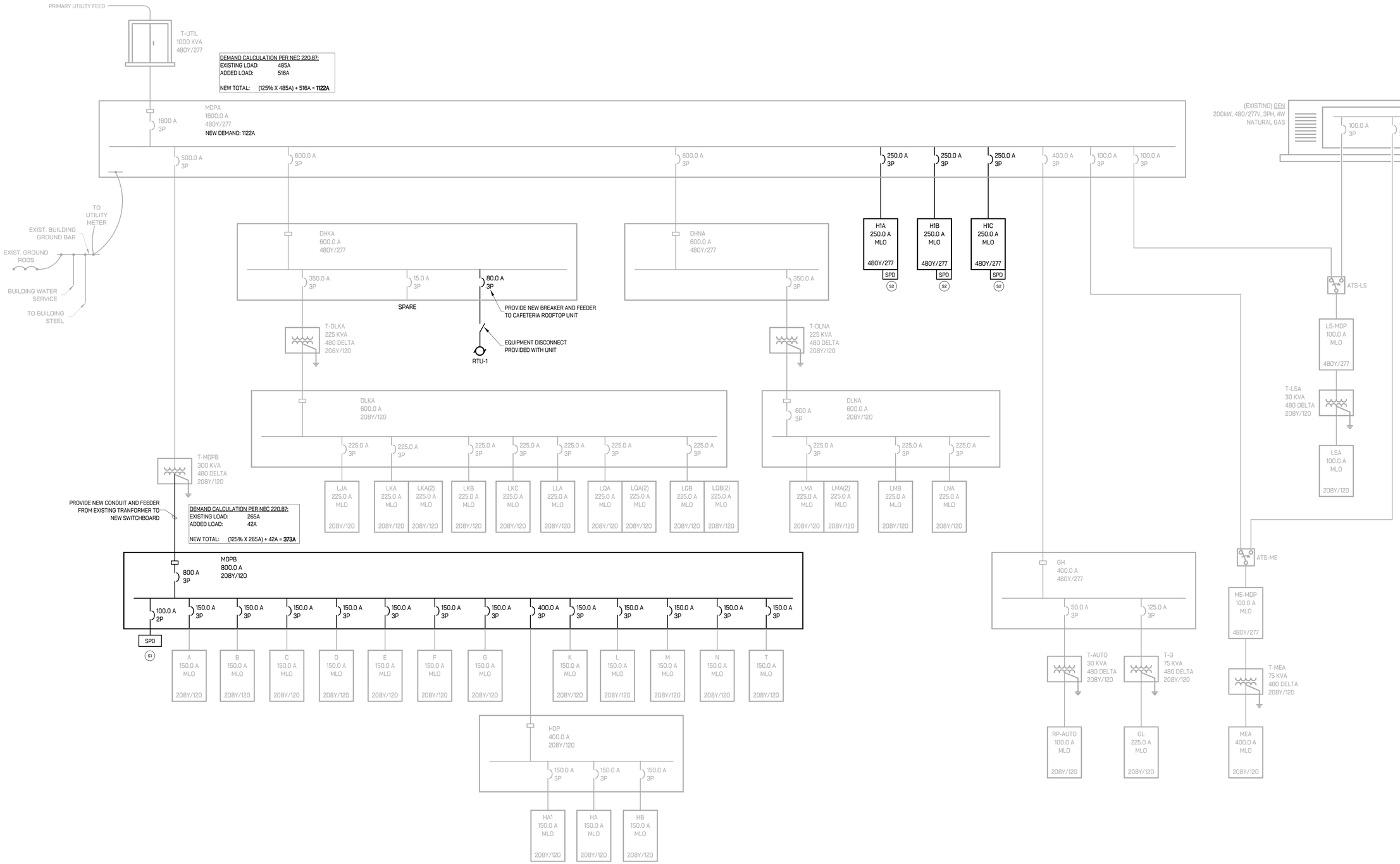


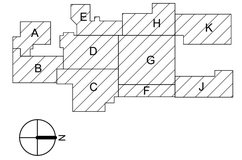
ONE LINE DIAGRAM SPD SCHEDULE

NUMBER	SPD TYPE	SYSTEM VOLTAGE	RATED AMPS	MODEL #	SURGE RATING	PROTECTION MODES	WIRE SIZE	BREAKER	TIME STAMP EVENT MONITORING
S1	BRANCH PANEL	480/277V WYE	UP TO 400A	RAYCAP #RSE-2-277-3Y-A-10-E-F-S	100kA/MODE	L-N, L-G, N-G	--	100A	YES
S2	BRANCH PANEL	480/277V WYE	UP TO 400A	RAYCAP #RSE-2-277-3Y-A-05-E-F-S	50kA/MODE	L-N, L-G, N-G	--	30A	YES

NOTES:
1. SPD SHALL BE EXTERNALLY MOUNTED TO ASSOCIATED PANELBOARD/SWITCHBOARD WITHIN THE MANUFACTURER RECOMMENDED DISTANCE
2. SPD SHALL BE MOUNTED AT CLOSEST POSSIBLE LOCATION ADJACENT TO ASSOCIATED CIRCUIT BREAKER

1 / E402 ELECTRICAL ONE LINE DIAGRAM - NEW CONSTRUCTION
NOT TO SCALE

KEY PLAN



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SHEET
ELECTRICAL ONE LINE DIAGRAM - NEW CONSTRUCTION

PROJECT NUMBER
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SHEET NUMBER
E402

ELECTRICAL PANEL FEEDER SCHEDULE

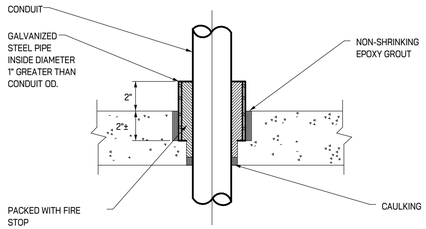
PANELBOARD	FED FROM	FEEDER INFORMATION						
	PANEL - CIRCUIT	LOAD CURRENT	BREAKER / POLES	# OF RUNS	WIRE	NEUTRAL	GROUND	CONDUIT
480Y/277								
H1A	MDPA - 10	74.6 A	250 A / 3	1	250kcmil	250kcmil	#4	2-1/2"C
H1B	MDPA - 7	181.0 A	250 A / 3	1	250kcmil	250kcmil	#4	2-1/2"C
H1C	MDPA - 8	181.0 A	250 A / 3	1	250kcmil	250kcmil	#4	2-1/2"C
208Y/120								
MDPB	T-MDPB - 1	372.8 A	800 A / 3	2	600kcmil	600kcmil	1/0	3-1/2"C

ELECTRICAL HVAC BRANCH CIRCUIT SCHEDULE

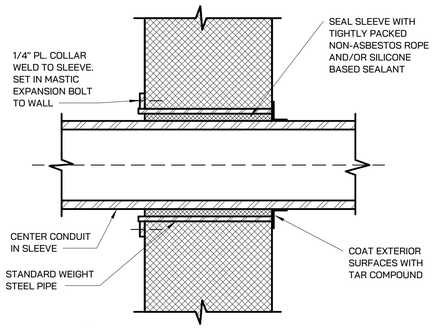
CIRCUIT DESCRIPTION	FED FROM	DISCONNECTING MEANS	BRANCH CIRCUIT INFORMATION						
	PANEL - CIRCUIT		LOAD CURRENT	BREAKER / POLES	# OF RUNS	WIRE	NEUTRAL	GROUND	CONDUIT
480 V									
HVAC - ACCU-1 (A116)	H1A - 2,4,6	30/3 NEMA 3R NFDS	14.9 A	30 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-2 (B104)	H1A - 7,9,11	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (B104)	H1A - 14,16,18	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (B105)	H1A - 8,10,12	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (B106)	H1A - 13,15,17	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (C109)	H1A - 20,22,24	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (C109)	H1A - 19,21,23	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G102)	H1C - 2,4,6	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G103)	H1C - 1,3,5	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G109)	H1B - 2,4,6	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G110)	H1B - 1,3,5	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G111)	H1B - 7,9,11	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G112)	H1B - 13,15,17	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G123)	H1C - 14,16,18	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G124)	H1C - 13,15,17	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G125)	H1B - 19,21,23	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G126)	H1B - 14,16,18	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (G127)	H1B - 8,10,12	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J103)	H1C - 19,21,23	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J104)	H1C - 25,27,29	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J105)	H1C - 31,33,35	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J106)	H1C - 37,39,41	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J109)	H1C - 56,58,60	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J110)	H1C - 20,22,24	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J111)	H1C - 26,28,30	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J112)	H1C - 32,34,36	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J113)	H1C - 38,40,42	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (J114)	H1C - 44,46,48	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K101)	H1B - 49,51,53	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K101)	H1B - 55,57,59	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K104)	H1B - 25,27,29	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K105)	H1B - 32,34,36	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K106)	H1B - 38,40,42	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K107)	H1B - 43,45,47	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K127)	H1B - 50,52,54	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-2 (K127)	H1B - 56,58,60	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-3 (A104)	H1A - 1,3,5	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (G113)	H1C - 7,9,11	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (G113)	H1C - 8,10,12	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (J107)	H1C - 43,45,47	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (J109)	H1C - 55,57,59	30/3 NEMA 3R NFDS	7.8 A	20 A / 3	1	#12	#12	#12	1/2"C
HVAC - ACCU-3 (J115)	H1C - 49,51,53	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (J116)	H1C - 50,52,54	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (K111)	H1B - 20,22,24	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (K112)	H1B - 26,28,30	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (K115)	H1B - 31,33,35	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (K116)	H1B - 37,39,41	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - ACCU-3 (K116)	H1B - 44,46,48	30/3 NEMA 3R NFDS	12.7 A	25 A / 3	1	#10	#10	#10	1/2"C
HVAC - RTU-1	DHKA - 2,4,6	UNIT MOUNTED DISCONNECT BY OTHERS	42.1 A	80 A / 3	1	#4	#4	#8	1-1/4"C
120 V									
HVAC - HUV-1/2 (A116, B104)	HA - 1	INTEGRAL DISCONNECT TO UNIT	12.5 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (C109)	A - 3	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (G102, G103)	G - 2	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (G110)	G - 1	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (G111, G112)	M - 1	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (G123, G124, G125)	N - 2	INTEGRAL DISCONNECT TO UNIT	12.5 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (G126, G127)	M - 2	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (J103, J104, J105)	P - 1	INTEGRAL DISCONNECT TO UNIT	12.5 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (J109)	HP - 1	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (J110, J111)	R - 1	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (J112, J113)	R - 2	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (J114)	HE - 3	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K101)	HD - 3	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C

ELECTRICAL HVAC BRANCH CIRCUIT SCHEDULE

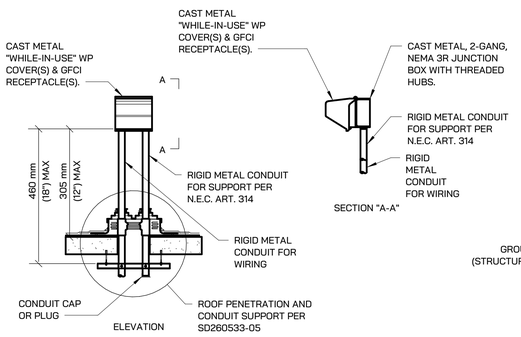
CIRCUIT DESCRIPTION	FED FROM	DISCONNECTING MEANS	BRANCH CIRCUIT INFORMATION						
	PANEL - CIRCUIT		LOAD CURRENT	BREAKER / POLES	# OF RUNS	WIRE	NEUTRAL	GROUND	CONDUIT
HVAC - HUV-2 (K104, K105)	K - 1	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K106, K107)	K - 2	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K111)	K - 3	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K112)	K - 4	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K115)	K - 5	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K116)	HD - 1	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K116)	HD - 2	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-2 (K127)	HD - 4	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-3 (A104)	HA - 2	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-3 (B105)	A - 4	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-3 (G113)	N - 1	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-3 (J106, J107)	P - 2	INTEGRAL DISCONNECT TO UNIT	8.3 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-3 (J115)	HE - 1	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C
HVAC - HUV-3 (J116)	HE - 2	INTEGRAL DISCONNECT TO UNIT	4.2 A	20 A / 1	1	#12	#12	#12	1/2"C



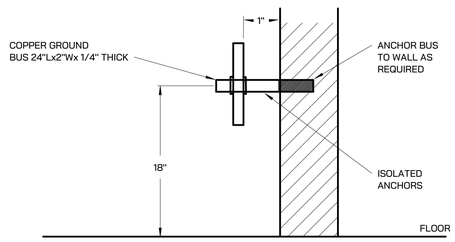
1 E403 CONDUIT ROOF PENETRATION DETAIL
1/8" = 1'-0"



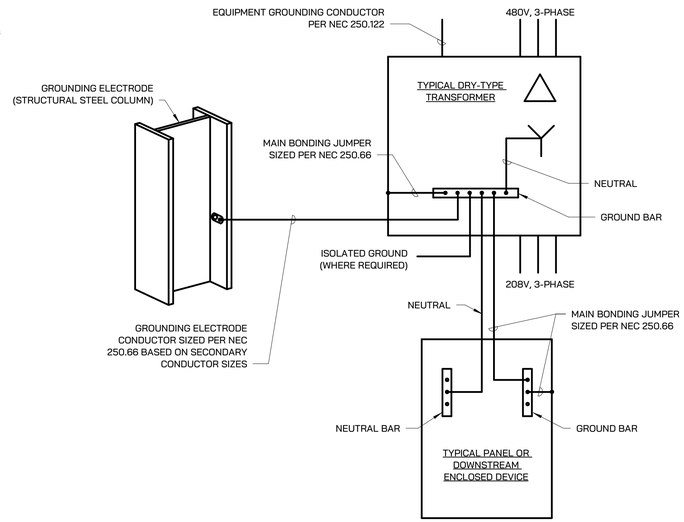
2 E403 CONDUIT THROUGH EXISTING WALL DETAIL
1/8" = 1'-0"



3 E403 ROOF RECEPTACLE MOUNTING DETAIL
1/8" = 1'-0"

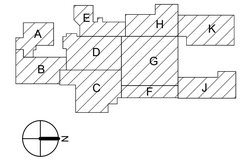


4 E403 GROUND BAR MOUNTING DETAIL
1/8" = 1'-0"



5 E403 TYPICAL TRANSFORMER GROUNDING DETAIL
1/8" = 1'-0"

KEY PLAN



ISSUE DATE	ISSUED FOR
02/05/2025	PLAN REVIEW
04/10/2025	BID DOCUMENTS

DRAWN Author
CHECKED Checker
APPROVED Approver

IGNYTE
MECHANICAL + ELECTRICAL DESIGN

FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377

PROJECT
Chesaning Union Schools
Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
ELECTRICAL SCHEDULES

PROJECT NUMBER
23.138.2

SHEET NUMBER
E403

Panelboard: MDPB

Location:		**Voltage:**	208 V, 3 Ø, 4 W
Supply:	T-MDPB	**Bus Rating:**	800 A
Mounting:		**Neutral:**	100%
Enclosure:		**Mains Type:**	MCB
Features & Modifications:		**Mains Rating:**	800 A
		Mains FN/Note:	
		SCCR:	31,998

Ckt	Description	Rating	Poles	Load	Notes
1	HDP	400.0 A	3	37340	
2	K	150.0 A	3	10520	
3	L	150.0 A	3	7020	
4	F	150.0 A	3	7020	
5	G	150.0 A	3	9020	
6	T	150.0 A	3	7740	
7	E	150.0 A	3	7020	
8	D	150.0 A	3	7020	
9	A	150.0 A	3	9020	
10	C	150.0 A	3	7020	
11	M	150.0 A	3	9020	
12	N	150.0 A	3	9520	
13	B	150.0 A	3	7020	
14	SPARE	225.0 A	1	0	
15	SPARE	225.0 A	1	0	
16	SPARE	100.0 A	1	0	
17	SPARE	100.0 A	1	0	
18	SPACE	--	1	--	
19	SPACE	--	1	--	
20	SPACE	--	1	--	
21	SPACE	--	1	--	
22	SPACE	--	1	--	
23	SPACE	--	1	--	
24	SPD	100.0 A	3	0	

Load Summary

Load Classification	Connected	Factor	Demand	Panel Totals
Other	0 VA	0.00%	0 VA	
RECEPTACLE	1260 VA	100.00%	1260 VA	
HVAC	14000 VA	100.00%	14000 VA	**Connected Load:** 134300 VA
				Connected Current: 372.8 A
				Demand Load: 134300 VA
				Demand Current: 372.8 A

Notes:
SQUARE D QED-2 SWITCHBOARD OR EQUIVALENT - 100% RATED

Panelboard: H1A

		Voltage:	480 V, 3Ø, 4W	**Mains Type:**	MLO
		Bus Rating:	250 A	**Mains Rating:**	250 A
Location:	ELECTRICAL C121	**Neutral:**	100%	**Mains FN/Note:**	-
Supply:	MDPA	**Feed-Thru Lugs:**	No	**SCCR:**	25,000
Mounting:	SURFACE	**Features & Modifications:**	-		
Enclosure:	NEMA 1				

Ckt	Description	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Description	Ckt
1				3533	4133								2
3	HVAC - ACCU-3 (A104)	25	3			3533	4133			3	30	HVAC - ACCU-1 (A116)	4
5								3533	4133				6
7				2167	2167								8
9	HVAC - ACCU-2 (B104)	20	3			2167	2167			3	20	HVAC - ACCU-2 (B105)	10
11								2167	2167				12
13				2167	2167								14
15	HVAC - ACCU-2 (B106)	20	3			2167	2167			3	20	HVAC - ACCU-2 (B104)	16
17								2167	2167				18
19				2167	2167								20
21	HVAC - ACCU-2 (C109)	20	3			2167	2167			3	20	HVAC - ACCU-2 (C109)	22
23								2167	2167				24
25				0	0								26
27	SPARE	20	3			0	0			3	20	SPARE	28
29								0	0				30
31				0	0								32
33	SPARE	20	3			0	0			3	20	SPARE	34
35								0	0				36
37				0	0								38
39	SPARE	20	3			0	0			3	30	SPARE	40
41								0	0				42
43				0	0								44
45	SPARE	30	3			0	0			3	20	SPARE	46
47								0	0				48
49				0	0								50
51	SPARE	20	3			0	0			3	20	SPARE	52
53								0	0				54
55	SPARE	20	1	0	0					1	20	SPARE	56
57	SPARE	20	1			0	0			1	20	SPARE	58
59	SPARE	20	1					0	0	1	20	SPARE	60
61	SPARE	20	1	0	0					1	20	SPARE	62
63	SPARE	20	1			0	0			1	20	SPARE	64
65	SPACE	--	1					--	--	1	--	SPACE	66
67	SPACE	--	1	--	--					1	--	SPACE	68
69	SPACE	--	1			--	--			1	--	SPACE	70
71	SPACE	--	1					--	--	1	--	SPACE	72
73	SPACE	--	1	--	--					1	--	SPACE	74
75	SPACE	--	1			--	--			1	--	SPACE	76
77	SPACE	--	1					--	--	1	--	SPACE	78
79	SPACE	--	1	--	0								80
81	SPACE	--	1			--	0			3	30	SPD	82
83	SPACE	--	1					--	0				84
			Connected Load:	21 kVA		21 kVA		21 kVA					
			Current:	75 A		75 A		75 A					

Load Classification	Connected	Factor	Demand	
HVAC	62000 VA	100.00%	62000 VA	
				Connected Load: 62 kVA
				Connected Current: 75 A
				Demand Load: 62 kVA
				Demand Current: 75 A

Notes:
SQUARE D NQ PANELBOARD OR EQUIVALENT

Panelboard: H1B

		Voltage:	480 V, 3Ø, 4W	**Mains Type:**	MCB
		Bus Rating:	250 A	**Mains Rating:**	250 A
Location:	WORK K109	**Neutral:**	100%	**Mains FN/Note:**	-
Supply:	MDPA	**Feed-Thru Lugs:**	No	**SCCR:**	25,000
Mounting:	SURFACE	**Features & Modifications:**	-		
Enclosure:	NEMA 1				

Ckt	Description	Trip (A)	Poles	Phase A Load (VA)		Phase B Load (VA)		Phase C Load (VA)		Poles	Trip (A)	Description	Ckt
1				2167	2167								2
3	HVAC - ACCU-2 (G110)	20	3			2167	2167			3	20	HVAC - ACCU-2 (G109)	4
5								2167	2167				6
7				2167	2167								8
9	HVAC - ACCU-2 (G111)	20	3			2167	2167			3	20	HVAC - ACCU-2 (G127)	10
11								2167	2167				12
13				2167	2167								14
15	HVAC - ACCU-2 (G112)	20	3			2167	2167			3	20	HVAC - ACCU-2 (G126)	16
17								2167	2167				18
19				2167	3533								20
21	HVAC - ACCU-2 (G125)	20	3			2167	3533			3	25	HVAC - ACCU-3 (K111)	22
23								2167	3533				24
25				2167	3533								26
27	HVAC - ACCU-2 (K104)	20	3			2167	3533			3	25	HVAC - ACCU-3 (K112)	28
29								2167	3533				30
31				3533	2167								32
33	HVAC - ACCU-3 (K115)	25	3			3533	2167			3	20	HVAC - ACCU-2 (K105)	34
35								3533	2167				36
37				3533	2167								38
39	HVAC - ACCU-3 (K116)	25	3			3533	2167			3	20	HVAC - ACCU-2 (K106)	40
41								3533	2167				42
43				2167	3533								44
45	HVAC - ACCU-2 (K107)	20	3			2167	3533			3	25	HVAC - ACCU-3 (K116)	46
47								2167	3533				48
49				2167	2167								50
51	HVAC - ACCU-2 (K101)	20	3			2167	2167			3	20	HVAC - ACCU-2 (K127)	52
53								2167	2167				54
55				2167	2167								56
57	HVAC - ACCU-2 (K101)	20	3			2167	2167			3	20	HVAC - ACCU-2 (K127)	58
59								2167	2167				60
61				0	0								62
63	SPARE	30	3			0	0			3	30	SPARE	64
65								0	0				66
67				0	0								68
69	SPARE	20	3			0	0			3	20	SPARE	70
71								0	0				72
73	SPARE	20	1	0	0					1	20	SPARE	74
75	SPARE	20	1			0	0			1	20	SPARE	76
77	SPARE	20	1					0	0	1	20	SPARE	78
79	SPARE	20	1	0	0								80
81	SPARE	20	1			0	0			3	30	SPD	82
83	SPARE	20	1					0	0				84
			Connected Load:	50 kVA		50 kVA		50 kVA					
			Current:	181 A		181 A		181 A					

Load Classification	Connected	Factor	Demand	
HVAC	150500 VA	100.00%	150500 VA	
				Connected Load: 151 kVA
				Connected Current: 181 A
				Demand Load: 151 kVA
				Demand Current: 181 A

Notes:
SQUARE D NQ PANELBOARD OR EQUIVALENT - 100% RATED

Panelboard: H1C

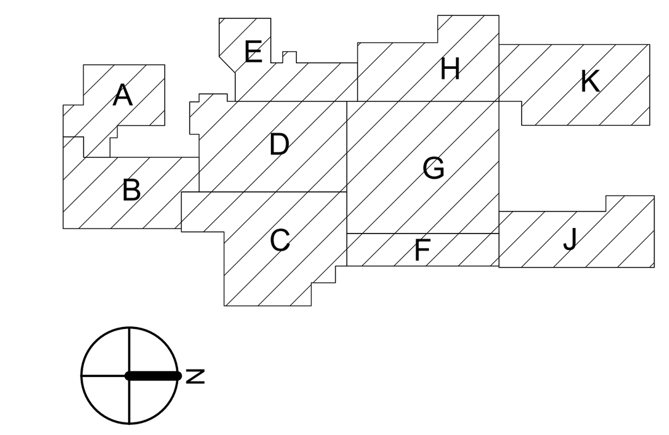
		Voltage:	480 V, 3Ø, 4W	**Mains Type:**	MCB
		Bus Rating:	250 A	**Mains Rating:**	250 A
Location:	IDF G115	**Neutral:**	100%	**Mains FN/Note:**	-
Supply:	MDPA	**Feed-Thru Lugs:**	No	**SCCR:**	25,000
Mounting:	SURFACE	**Features & Modifications:**	-		
Enclosure:	NEMA 1				

Ckt	Description	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Description	Ckt
1				2167	2167								2
3	HVAC - ACCU-2 (G103)	20	3			2167	2167			3	20	HVAC - ACCU-2 (G102)	4
5								2167	2167				6
7				3533	3533								8
9	HVAC - ACCU-3 (G113)	25	3			3533	3533			3	25	HVAC - ACCU-3 (G113)	10
11								3533	3533				12
13				2167	2167								14
15	HVAC - ACCU-2 (G124)	20	3			2167	2167			3	20	HVAC - ACCU-2 (G123)	16
17								2167	2167				18
19				2167	2167								20
21	HVAC - ACCU-2 (J103)	20	3			2167	2167			3	20	HVAC - ACCU-2 (J110)	22
23								2167	2167				24
25				2167	2167								26
27	HVAC - ACCU-2 (J104)	20	3			2167	2167			3	20	HVAC - ACCU-2 (J111)	28
29								2167	2167				30
31				2167	2167								32
33	HVAC - ACCU-2 (J105)	20	3			2167	2167			3	20	HVAC - ACCU-2 (J112)	34
35								2167	2167				36
37				2167	2167								38
39	HVAC - ACCU-2 (J106)	20	3			2167	2167			3	20	HVAC - ACCU-2 (J113)	40
41								2167	2167				42
43				3533	2167								44
45	HVAC - ACCU-3 (J107)	25	3			3533	2167			3	20	HVAC - ACCU-2 (J114)	46
47								3533	2167				48
49				3533	3533								50
51	HVAC - ACCU-3 (J115)	25	3			3533	3533			3	25	HVAC - ACCU-3 (J116)	52
53								3533	3533				54
55				2167	2167								56
57	HVAC - ACCU-3 (J109)	20	3			2167	2167			3	20	HVAC - ACCU-2 (J109)	58
59								2167	2167				60
61				0	0								62
63	SPARE	30	3			0	0			3	30	SPARE	64
65								0	0				66
67				0	0								68
69	SPARE	20	3			0	0			3	20	SPARE	70
71								0	0				72
73	SPARE	20	1	0	0					1	20	SPARE	74
75	SPARE	20	1			0	0			1	20	SPARE	76
77	SPARE	20	1					0	0	1	20	SPARE	78
79	SPARE	20	1	0	0								80
81	SPARE	20	1			0	0			3	30	SPD	82
83	SPARE	20	1					0	0				84
			Connected Load:	50 kVA		50 kVA		50 kVA					
			Current:	181 A		181 A		181 A					

Load Classification	Connected	Factor	Demand	
HVAC	150500 VA	100.00%	150500 VA	
				Connected Load: 151 kVA
				Connected Current: 181 A
				Demand Load: 151 kVA
				Demand Current: 181 A

Notes:
SQUARE D NQ PANELBOARD OR EQUIVALENT - 100% RATED

KEY PLAN



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248.656.1377

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Chesaning High School
Remodel

Chesaning,
Michigan

SHEET
ELECTRICAL PANEL
LOAD SCHEDULES

PROJECT NUMBER
23.138.2

SHEET NUMBER
E501

2024-002 CHESANING BIG ROCK ELEMENTARY