FITNESS CENTER RENOVATIONS:

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

CONTACTS:

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STRUCTURAL / MECHANICAL / ELECTRICAL



MacMILLAN & ASSOCIATES, INC 714 E. MIDLAND STREET BAY CITY, MICHIGAN 48706 PHONE: (989) 894-4300

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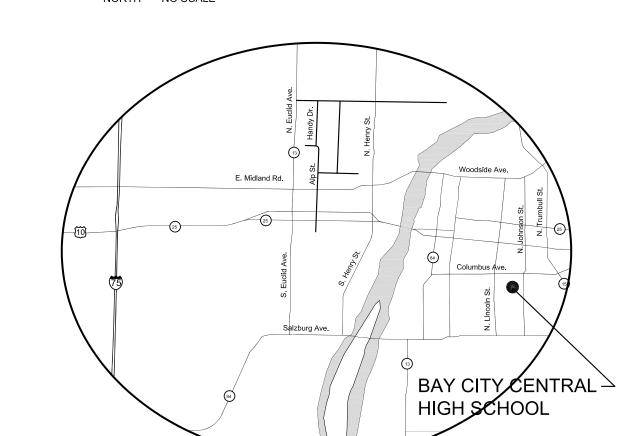
E1.01 ELECTRICAL DEMOLITION PLAN
E2.01 ELECTRICAL LIGHTING PLAN

E2.01 ELECTRICAL EIGHTING PLAN

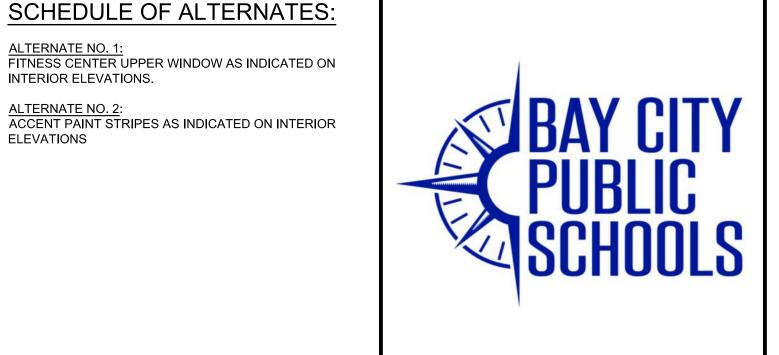
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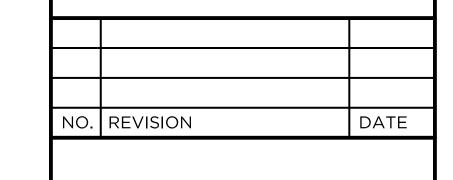
E4.01 ELECTRICAL EMERGENCY LIGHTING













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PROJECT TITLE

FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE

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TITLE SHEET & PROJECT INFORMATION

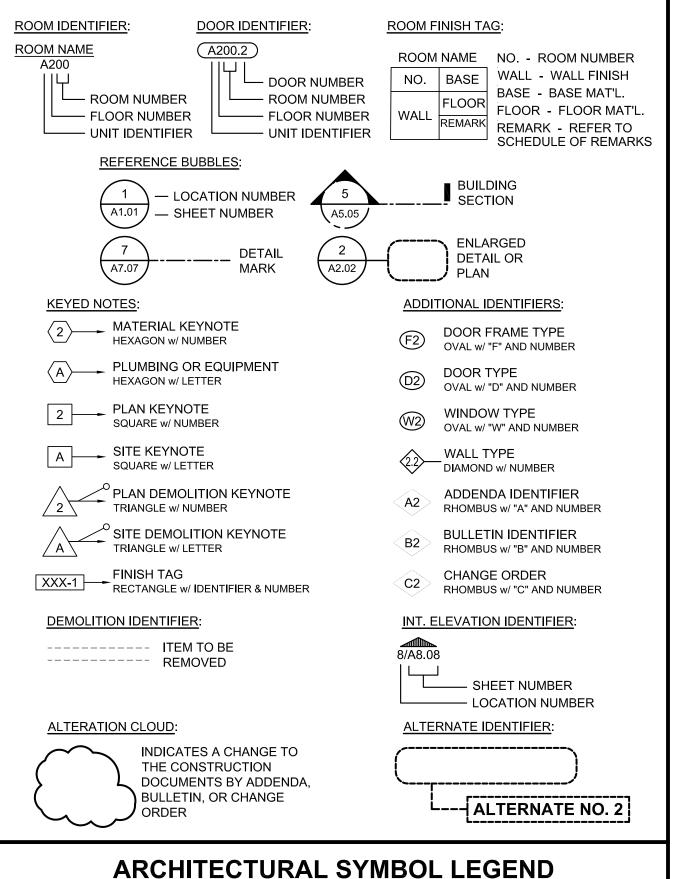
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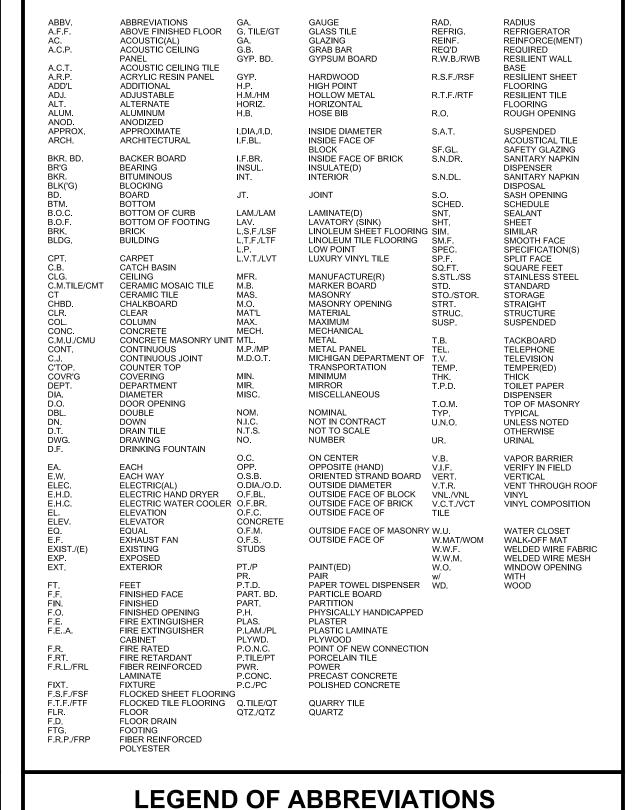
2019113.34

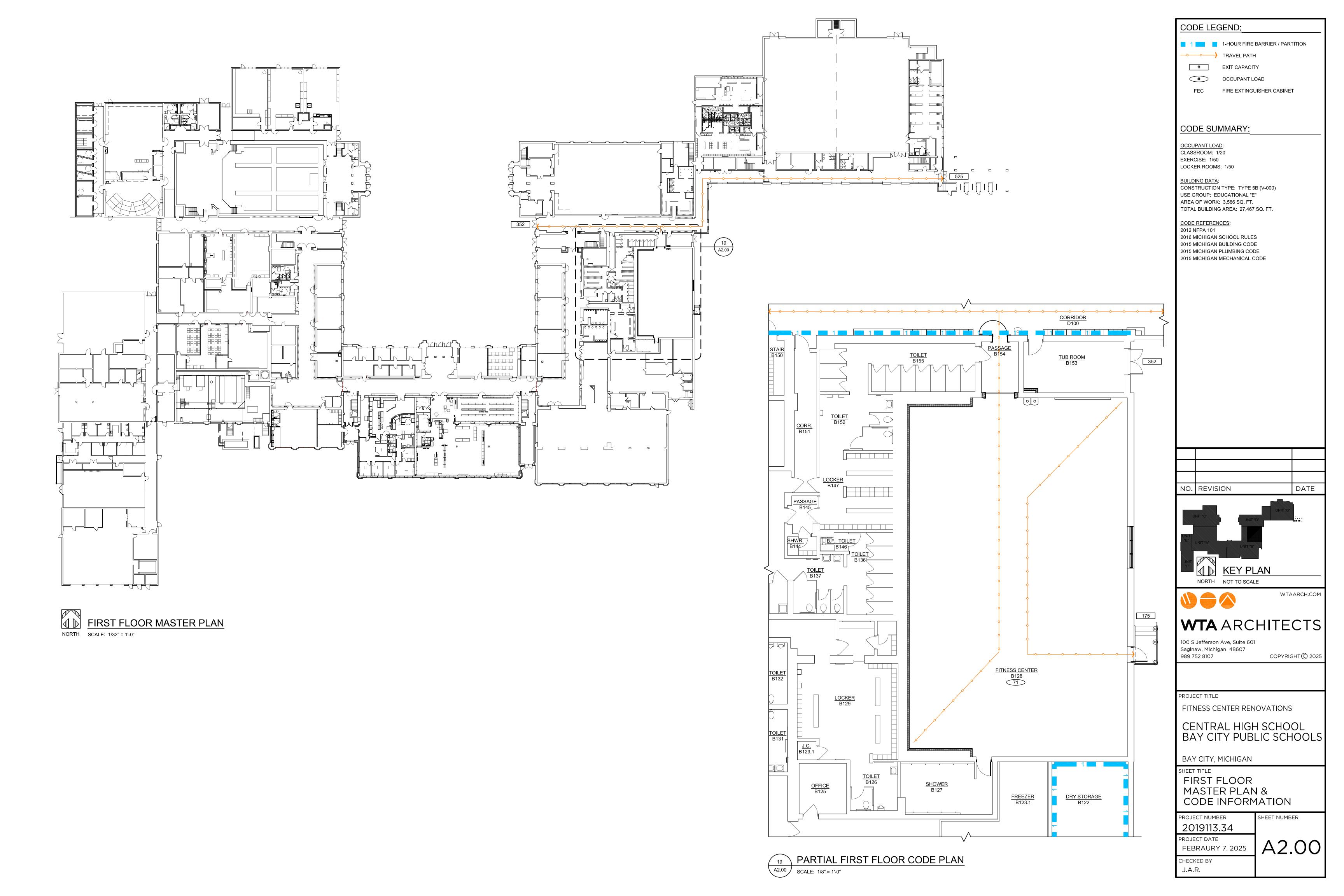
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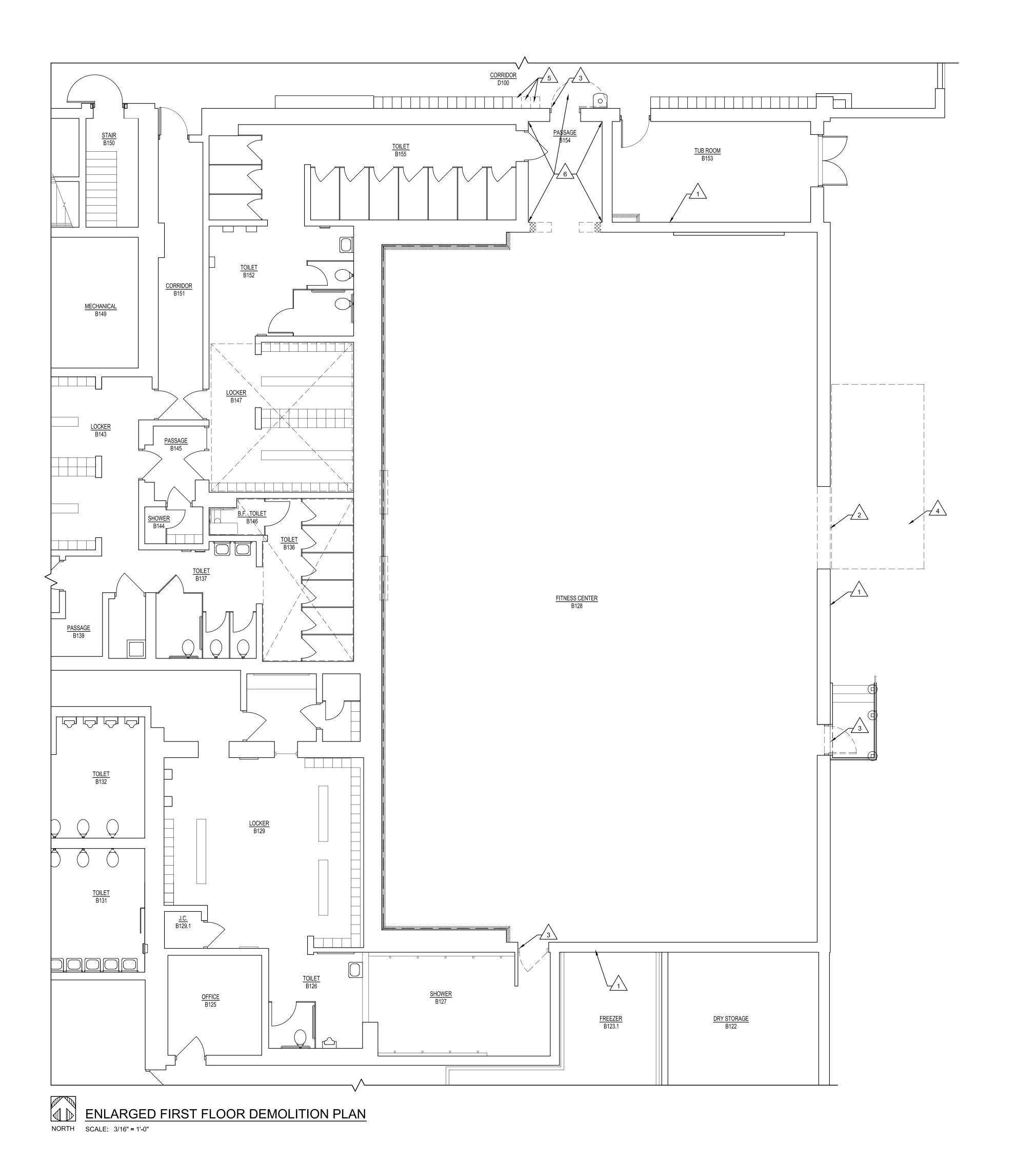
FEBRAURY 7, 2025

TS









DEMOLITION KEYNOTES:

EXISTING MASONRY WALLS TO REMAIN.

REMOVE TEMPORARY WOOD FRAMED

 $\frac{2}{2}$ CONSTRUCTION ENTRANCE AND INFILL.

3 REMOVE EXISTING DOOR ASSEMBLY

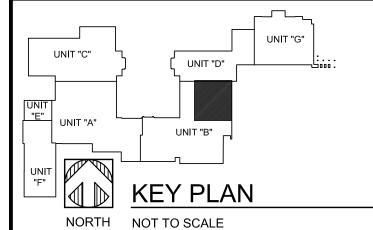
REMOVE TEMPORARY GRAVEL CONSTRUCTION RAMP BY OTHERS. 5\ REMOVE PORTION OF EXISTING LOCKERS AND CONCRETE / TERRAZZO BASE.

GRIND / SCARIFY TOP OF TERRAZZO IN AREA OF NEW RESINOUS FLOORING. REFER TO FINISHES PLAN.

GENERAL DEMOLITION NOTES:

- REFER TO ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANY RELATED AND/OR ADDITIONAL DEMOLITION WORK. THE FULL EXTENT OF CIVIL, MECHANICAL, AND ELECTRICAL DEMOLITION NOT INDICATED ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN ALL TRADES REGARDING THE EXTENT OF DEMOLITION WORK NECESSARY FOR NEW CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, TEMPORARY SUPPORTS, AND BRACING REQUIRED FOR THE SAFE DEMOLITION AND ERECTION OF ANY STRUCTURAL COMPONENTS.
- THE OWNER HAS FIRST SALVAGEABLE RIGHTS TO ALL ITEMS AND EQUIPMENT THAT ARE BEING DEMOLISHED. THIS INCLUDES ALL ITEMS THAT ARE CALLED OUT TO BE DEMOLISHED ON THE MECHANICAL AND ELECTRICAL DRAWINGS. DEMOLITION CONTRACTOR SHALL VERIFY WITH THE OWNER WHICH ITEMS THEY WISH TO KEEP PRIOR TO THE START OF ANY DEMOLITION WORK. THESE SALVAGED ITEMS ARE TO BE REMOVED IN GOOD CONDITION AND TURNED OVER TO THE OWNER.
- ALL BUILDING MATERIALS THAT ARE BEING DEMOLISHED, UNLESS NOTED OTHERWISE, EXCLUDING THOSE ITEMS SALVAGED BY THE OWNER, ARE TO BE DISPOSED OF PROPERLY BY THE CONTRACTOR. U.N.O.
- PROTECT ADJACENT MEMBERS, FINISHES AND SURFACES FROM DAMAGE DURING DEMOLITION WORK. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT STRUCTURAL MEMBERS, BUILDING AREAS AND PUBLIC AND PRIVATE THOROUGHFARES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
- PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PREVENT UNAUTHORIZED ACCESS IN TO THE WORK AREA, AND TO PROTECT THE
- . ALL AREAS DAMAGED BY DEMOLITION TO BE PATCHED AND REPAIRED OR REPLACED TO MATCH EXISTING ADJACENT SURFACES.
- 9. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES LINES AND CONFIRM CONNECTION POINT FOR NEW SYSTEMS PRIOR TO ANY SAWCUTTING OR CORING OF EXISTING FLOOR SLAB.

NO. REVISION DATE



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FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

ENLARGED FIRST FLOOR DEMOLITION PLAN

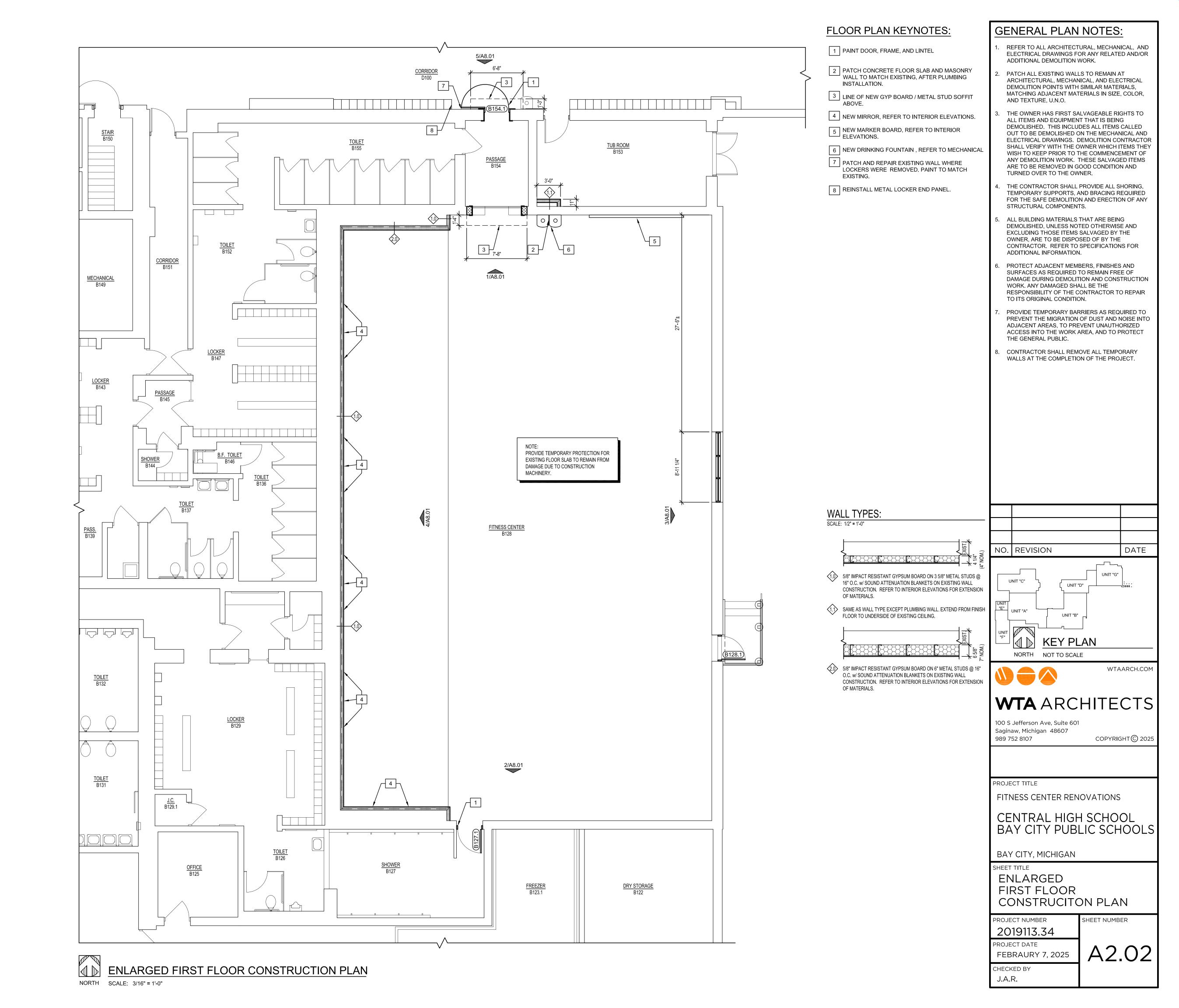
PROJECT NUMBER 2019113.34

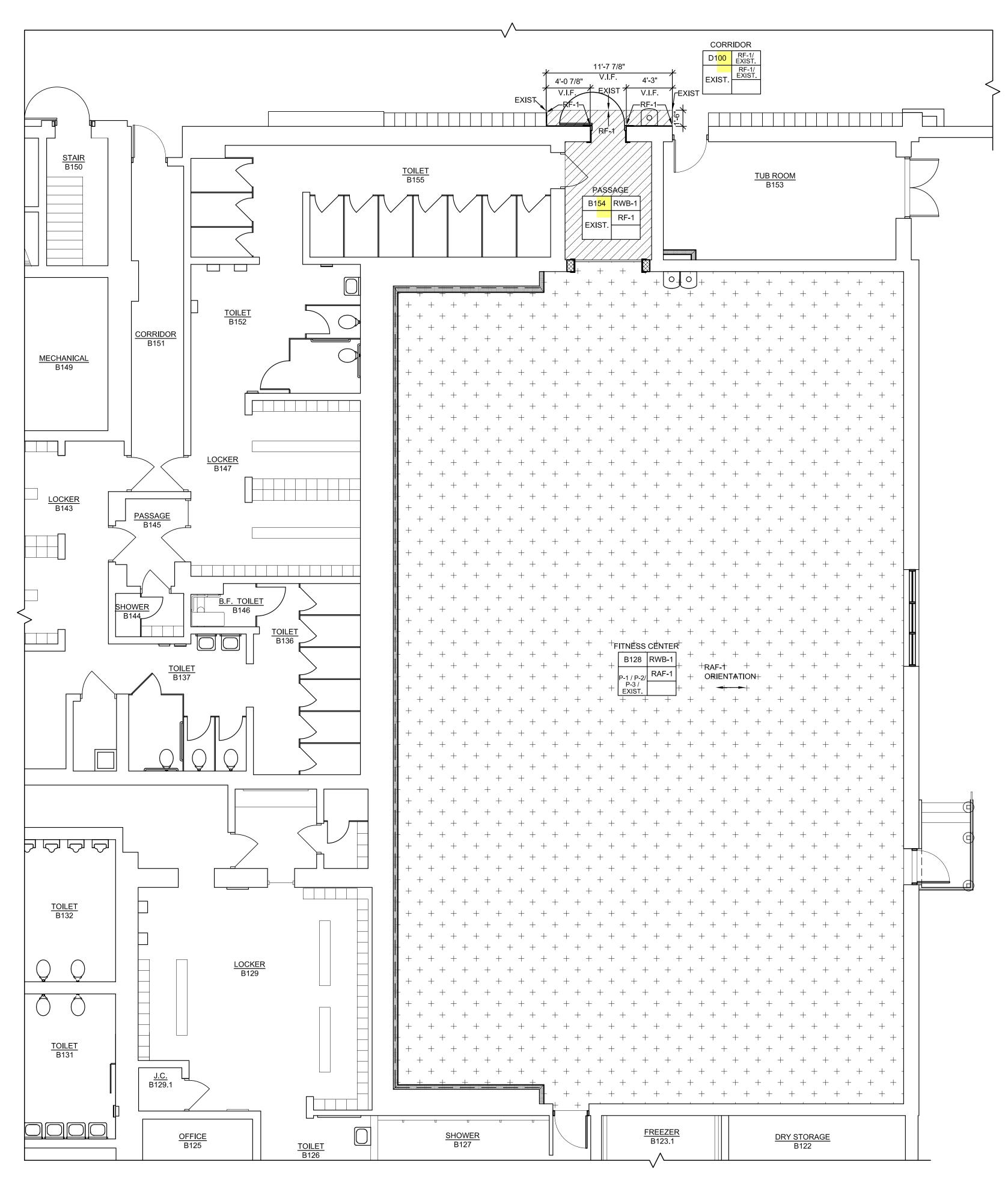
SHEET NUMBER

PROJECT DATE FEBRAURY 7, 2025

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A2.01





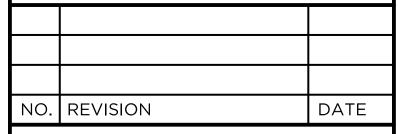
NORTH ENLARGED FIRST FLOOR FINISH PLAN

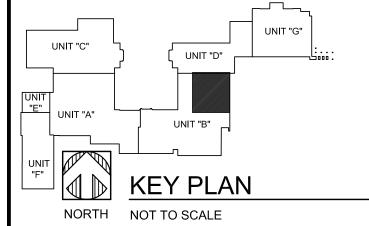
SCALE: 3/16" = 1'-0"

IN	INTERIOR FINISH LEGEND								
TAG	DESCRIPTION	MANUFACTURER	PATTERN/COLOR	NOTES					
PT-1	INTERIOR PAINT - WALL	SHERWIN WILLIAMS	CUSTOM 'SCHOOL PURPLE'						
PT-2	INTERIOR PAINT - WALL	SHERWIN WILLIAMS	CUSTOM 'SCHOOL YELLOW'						
PT-3	INTERIOR PAINT - WALL	SHERWIN WILLIAMS	SW 9554 GOING GREY						
PT-4	INTERIOR PAINT - CEILING	SHERWIN WILLIAMS	SW 7069 IRON ORE						
PT-5	INTERIOR PAINT	SHERWIN WILLIAMS	TBD	DOOR FRAME					
PT-6	INTERIOR PAINT	SHERWIN WILLIAMS	TBD	DOOR					
RAF-1	RESILIENT ATHLETIC FLOORING	TO MARKET	ATMOSPHERE RUNWAY 2 (CITATION): TM2926 SIGNAL SQUARE	9mm THICH; 4'X50' ROLLED GOODS					
RF-1	RESINOUS FLOORING	DUR-A-FLEX	HYBRI-FLEX EC / POLY-CRETE WR; COLOR TBD						
RWB-1	RESILIENT WALL BASE	ROPPE	4" COVE BASE (100 BLACK)						

INTERIOR GENERAL NOTES:

- 1. AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS.
- 2. REFER TO FINISH MATERIAL LEGEND FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION
- 3. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.
- 4. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.
- 5. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION.
- 6. REFER TO SPECIFICATIONS FOR COMPLETE FINISH INFORMATION.
- 7. REFER TO A0.01 FOR ROOM FINISH TAG DESIGNATIONS.







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PROJECT TITLE

FITNESS CENTER RENOVATIONS

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BAY CITY, MICHIGAN

SHEET TITLE
ENLARGED

| ENLARGED | FIRST FLOOR FINISH PLAN

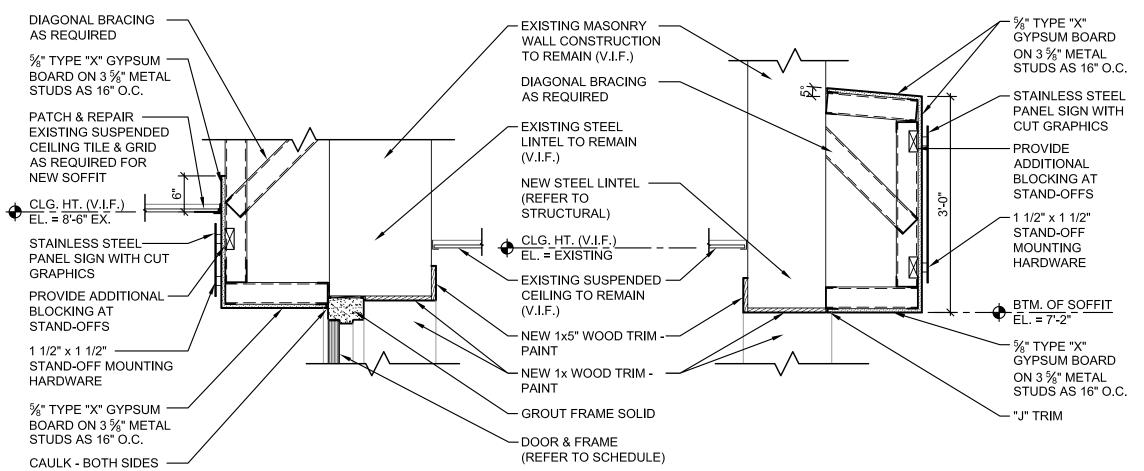
PROJECT NUMBER 2019113.34

CHECKED BY
J.A.R.

SHEET NUMBER

FEBRAURY 7, 2025

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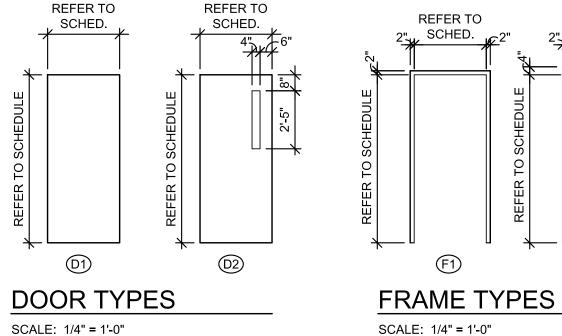
DOOR HEAD @ SOFFIT SCALE: 3/4" = 1'-0"

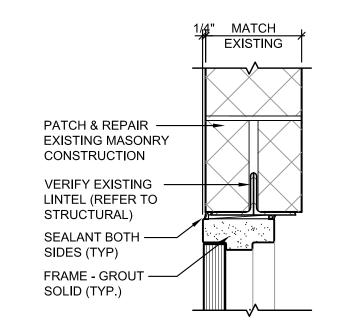


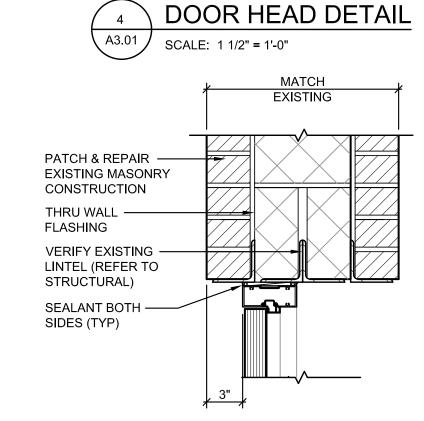
DOOR & FRAME SCHEDULE ABBREVIATIONS: FIRE RATING DOOR DETAIL H.W. NUMBER MAT'L. TYPE HEAD JAMB SILL LABEL | MIN. WIDTH HEIGHT THK. MAT'L. TYPE REMARKS CPT. 4/A3.01 SIM. B127.1 3'- 0" | 7'- 0" | 1 3/4" | WOOD | H.M. 5/A3.01 SIM. C.M.U. 6/A3.01 SIM. 7/A3.01 SIM. B128.1 3'- 0" | 7'- 0" | 1 3/4" | F.R.P. ALUM. F2 CONC EX./EXIST. 3'- 0" 7'- 0" | 1 3/4" | WOOD B154.1 H.M. F2 20 EXP. FRP. GL. TILE GYP BD H.M. L.T.F. P. CONC. RES. RES. FL. RSF RUB.

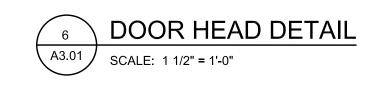
REFER TO

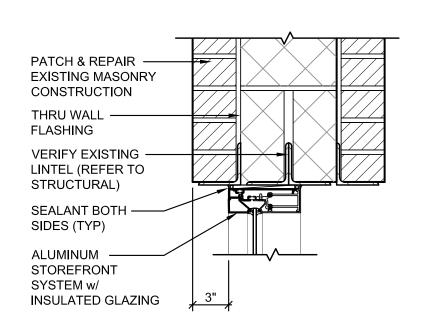
F2

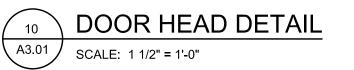


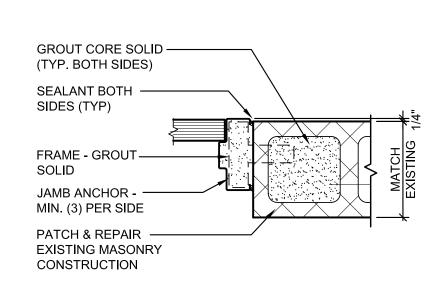


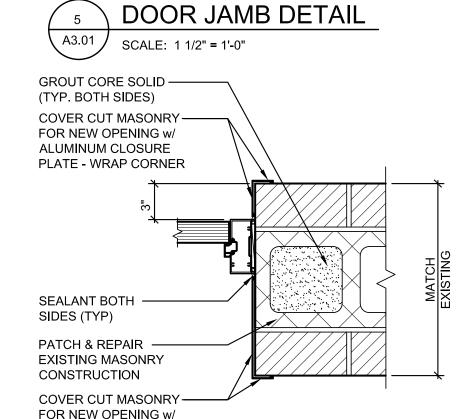








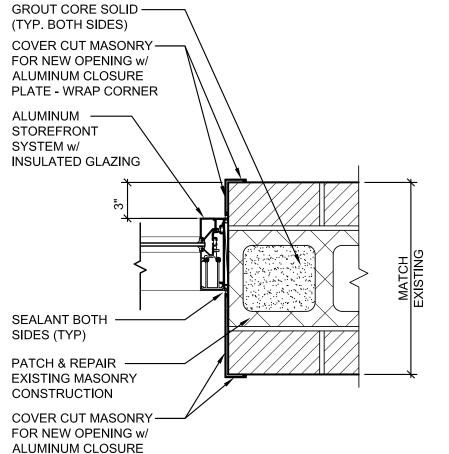




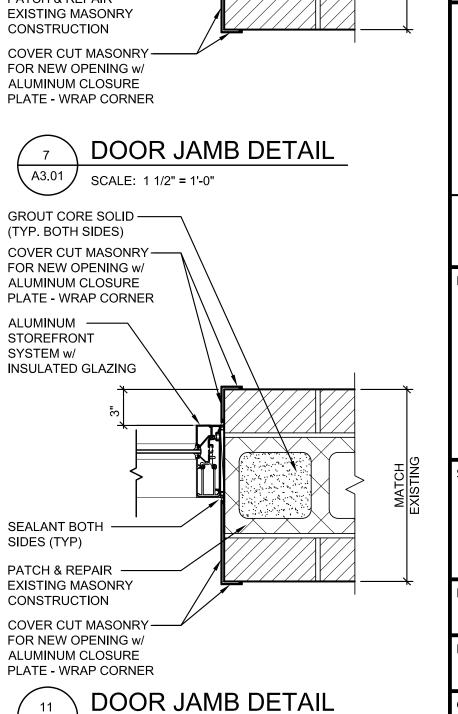


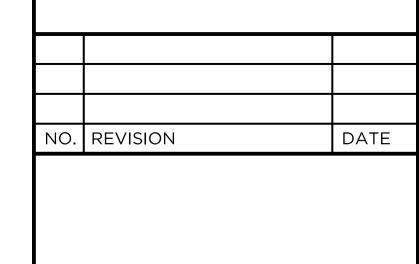
A3.01

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









ALUMINUM

CONCRETE

GLAZED TILE

RESILIENT

S.A.T.

SGFT

STL

S. CONC.

GYPSUM BOARD

HOLLOW METAL

EXISTING

CERAMIC TILE

CONCRETE MASONRY UNIT

EXPOSED CONSTRUCTION

LINOLEUM TILE FLOORING

POLISHED CONCRETE

RESINOUS FLOORING

SEALED CONCRETE

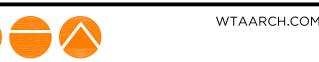
RESILIENT SHEET FLOORING

SUSPENDED ACOUSTICAL CEILING TILE

STRUCTURAL GLAZED FACING TILE

FIBER REINFORCED POLYESTER

CARPET



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FITNESS CENTER RENOVATIONS

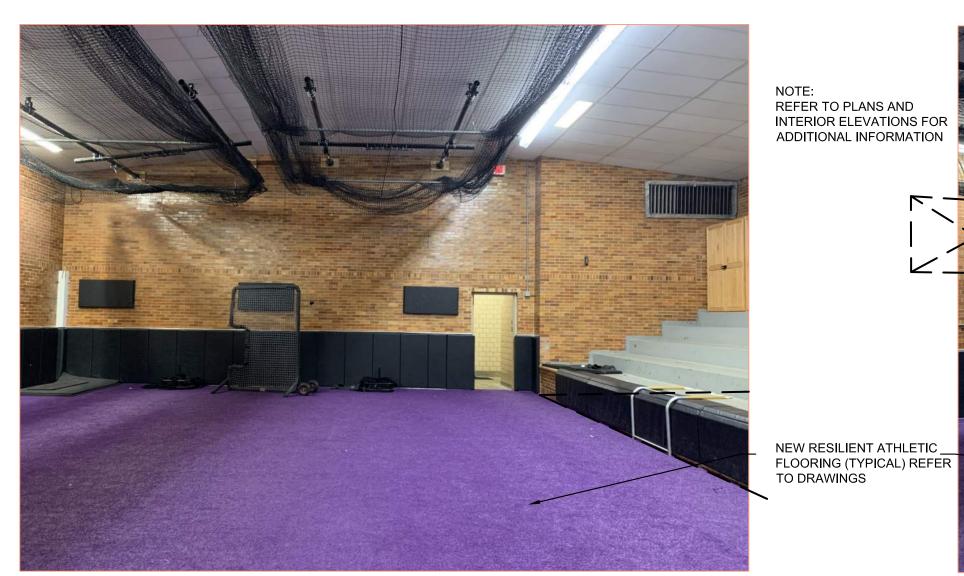
CENTRAL HIGH SCHOOL **BAY CITY PUBLIC SCHOOLS**

BAY CITY, MICHIGAN

DOOR & FRAME SCHEDULE AND DETAILS

PROJECT NUMBER SHEET NUMBER 2019113.34 PROJECT DATE

A3.02 FEBRAURY 7, 2025 CHECKED BY



REFER TO PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION

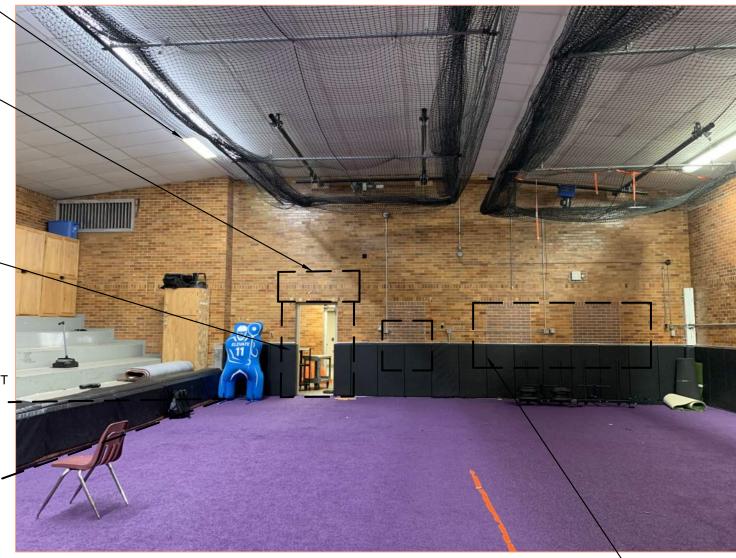
REMOVE BRICK INFILL AND
PROVIDE NEW STOREFRONT
(ALTERNATE)

EXISTING LIGHT FIXTURES BEING REPLACED (TYPICAL). REFER TO DRAWINGS.

NEW GYP BOARD / -METAL STUD CANOPY /

ENLARGED MASONRY-OPENING IN EXISTING MASONRY WALLFROM PHASE 1

REMOVE CONSTRUCTION _ ENTRANCE AND FRAMING. PROVIDE NEW STOREFRONT (BASE BID)



NEW MARKERBOARD AND
_ DRINKING FOUNTAIN, REFER
TO DRAWINGS



SOUTH ELEVATION

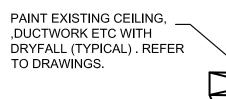




PHOTO DETAIL NO SCALE EAST ELEVATION



FITNESS CENTER

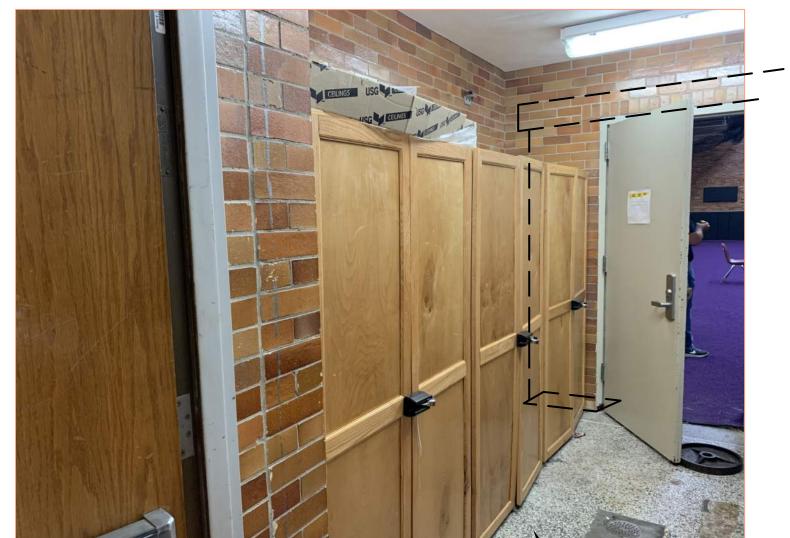
WEST ELEVATION

RESINOUS FLOORING

PHOTO DETAIL

NO SCALE

FITNESS CENTER PHOTO DETAIL NO SCALE NORTH ELEVATION



PASSAGE PHOTO DETAIL A7.01 NO SCALE

- NEW RESINOUS FLOORING

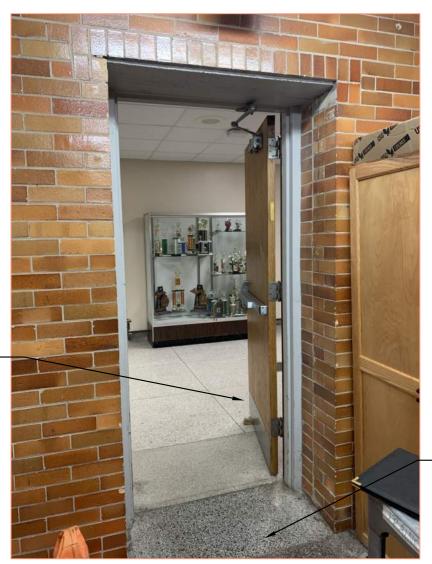
EXISTING ----CONCRETE
BLEACHERS WILL
BE REMOVED BY
OTHERS

FITNESS CENTER PHOTO DETAIL WEST ELEVATION NO SCALE



 REPLACE
 EXISTING H.M.
 DOOR AND FRAME (PAINT).

> REPLACE EXISTING — RATED CORRIDOR DOOR AND FRAME (PAINT)



A7.01

PAINT H.M. DOOR —— AND FRAME



FITNESS CENTER
PHOTO DETAIL A7.01 NO SCALE



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BAY CITY, MICHIGAN

SHEET TITLE

PHOTO DETAILS

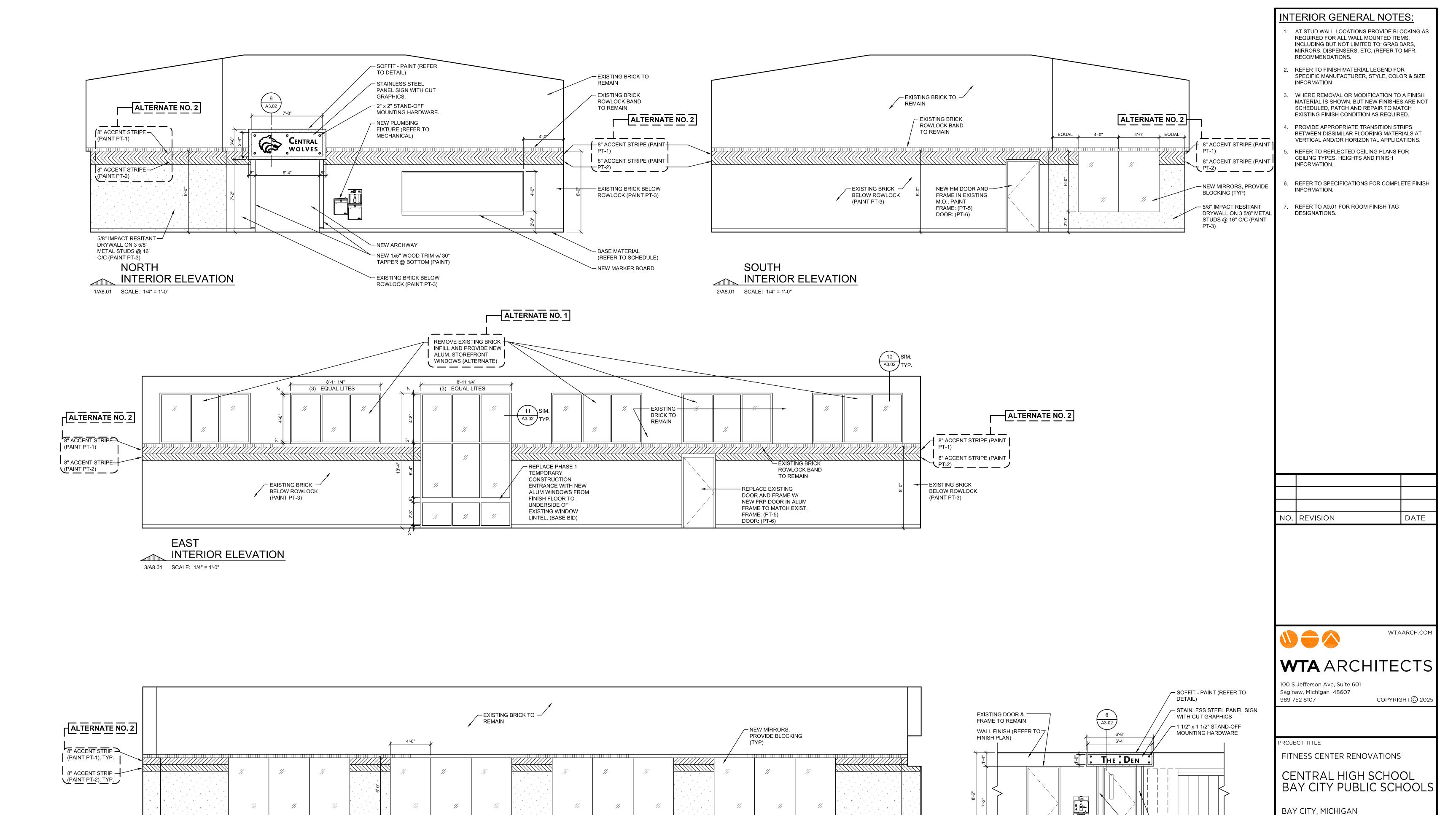
PROJECT NUMBER SHEET NUMBER 2019113.34 PROJECT DATE

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A7.01 J.A.R.



MENS LOCKER RM ENTRANCE PHOTO DETAIL NO SCALE



5/8" IMPACT RESITANT

DRYWALL ON 3 5/8" METAL STUDS @ 16"

O/C (PAINT PT-3)

WEST

4/A8.01 SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION

2019113.34 PROJECT DATE A8.01 FEBRAURY 7, 2025 CHECKED BY

SHEET NUMBER

INTERIOR ELEVATIONS

SHEET TITLE

PROJECT NUMBER

J.A.R.

 ${}^{f L}$ EXISTING LOCKERS TO REMAIN

- REMOVE (3) LOCKERS AND

NEW 1x8" WOOD TRIM w/

REVEAL & 30° TAPPER @ BOTTOM - (PAINT)

BASE MATERIAL (REFER

TERRAZZO BASE

TO FINISH PLAN)

EXISTING DRINKING -

PT-6 (REFER TO

SCHEDULE)

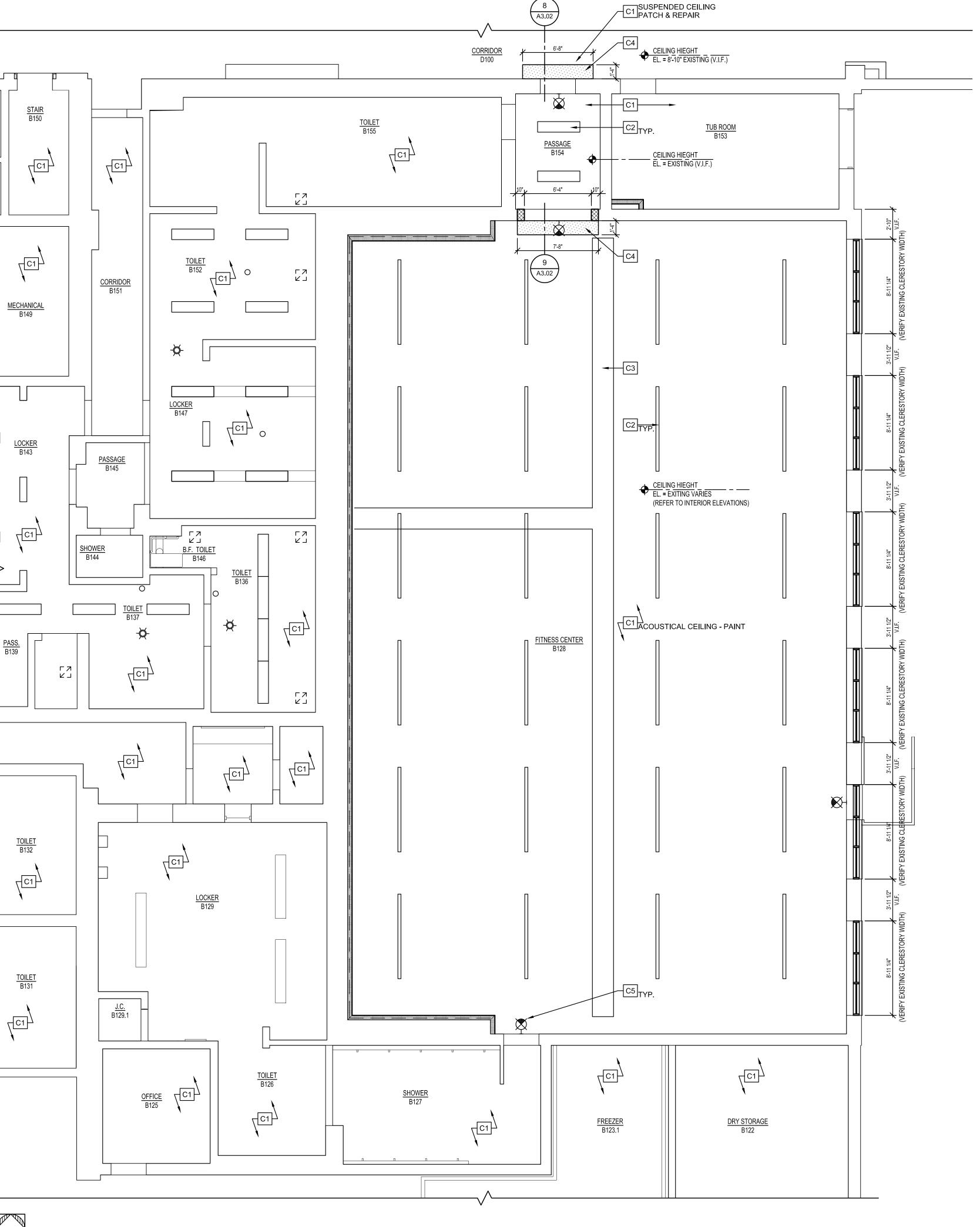
FOUNTAIN TO REMAIN

DOOR AND FRAME - PAINT-

CORRIDOR

6/A8.01 SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION



C# CEILING KEYNOTES:

- C1 EXITING TO REMAIN
- C2 LIGHT FIXTURE (REFER TO ELECTRICAL)
- C3 MECHANICAL DUCT (REFER TO MECHANICAL)
- C4 SOFFIT (REFER TO DETAIL)
- C5 WALL MOUNTED EXIT LIGHT (REFER TO ELECTRICAL)

GENERAL PLAN NOTES:

- REFER TO ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANY RELATED AND/OR ADDITIONAL DEMOLITION WORK
- PATCH ALL EXISTING WALLS TO REMAIN AT ARCHITECTURAL, MECHANAICAL, AND ELECTRICAL DEMOLITION POINTS WITH SIMILAR MATERIALS, MATCHING ADJACENT MATERIALS IN SIZE, COLOR, AND TEXTURE, U.N.O.
- 3. THE OWNER HAS FIRST SALVAGEABLE RIGHTS TO ALL ITEMS AND EQUIPMENT THAT IS BEING DEMOLISHED. THIS INCLUDES ALL ITEMS CALLED OUT TO BE DEMOLISHED ON THE MECHANICAL AND ELECTRICAL DRAWINGS. DEMOLITION CONCTRACTOR SHALL VERIFY WITH THE OWNER WHICH ITEMS THEY WISH TO KEEP PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. THESE SALVAGED ITEMS ARE TO BE REMOVED IN GOOD CONDITION AND TURNED OVER TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, TEMPORARY SUPPORTS, AND BRACING REQUIRED FOR THE SAFE DEMOLITION AND ERECTION OF ANY STRUCTURAL COMPONENTS.
- 5. ALL BUILDING MATERIALS THAT ARE BEING DEMOLISHED, UNLESS NOTED OTHERWISE AND EXCLUDING THOSE ITEMS SALVAGED BY THE OWNER, ARE TO BE DISPOSED OF BY THE CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- . PROTECT ADJACENT MEMBERS, FINISHES AND SURFACES AS REQURIED TO REMAIN FREE OF DAMAGE DURING DEMOLITION AND CONSTRUCTION WORK. ANY DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO ITS ORIGINAL CONDITION.
- 7. PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PREVENT THE MIGRATION OF DUST AND NOISE INTO ADJACENT AREAS, TO PREVENT UNAUTHORIZED ACCESS INTO THE WORK AREA, AND TO PROTECT THE GENERAL PUBLIC.
- 3. CONTRACTOR SHALL REMOVE ALL TEMPORARY WALLS AT THE COMPLETION OF THE PROJECT.

CEILING LEGEND:



GYPSUM BOARD SOFFIT



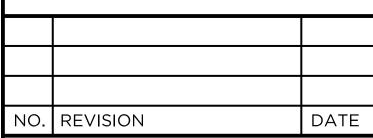
NEW LIGHT FIXTURES / EXIT SIGNS (REFER TO ELECTRICAL)

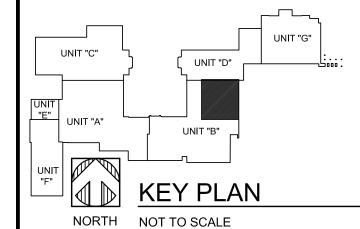


RETURN OR EXHAUST AIR GRILLE (REFER TO MECHANICAL)



SUPPLY AIR GRILLE (REFER TO MECHANICAL)







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FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TIT

ENLARGED FIRST FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER 2019113.34

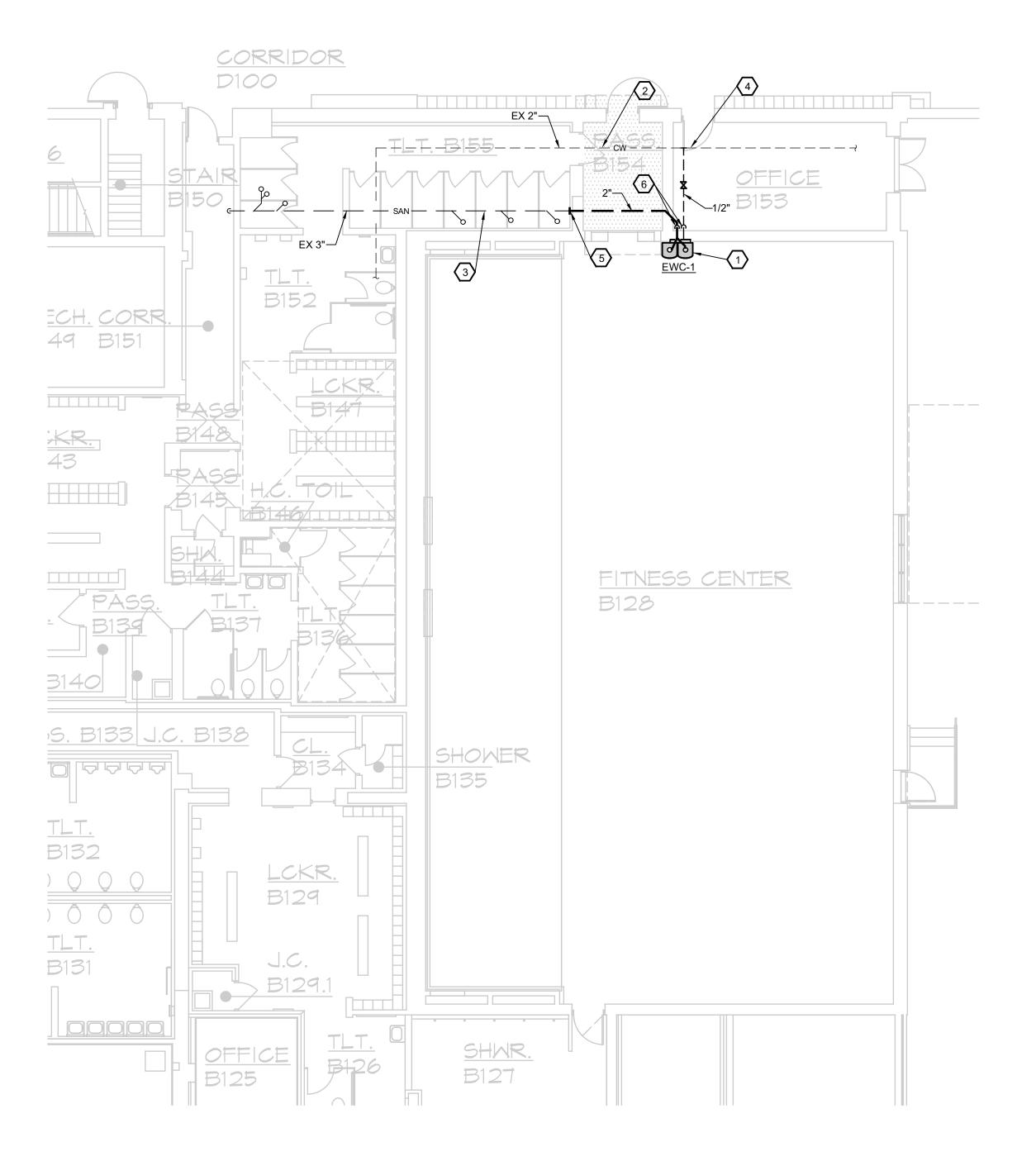
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SHEET NUMBER

FEBRAURY 7, 2025 A 9.01

ENLARGED FIRST FLOOR REFLECTED CEILING

NORTH SCALE: 3/16" = 1'-0"



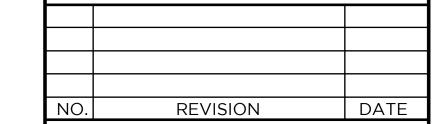


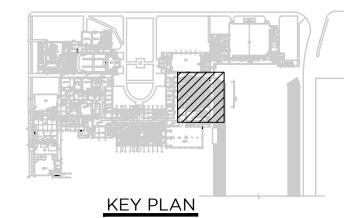
KEYED NOTES:

- 1 FURNISH AND INSTALL NEW ELECTRIC WATER COOLER ON WALL. CONNECT NEW 1/2" DOMESTIC COLD WATER, 1 1/2" VENT, AND 2" SANITARY DRAIN TO EXISTING PIPING IN TUNNEL BELOW. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE EXACT ELECTRIC WATER COOLER LOCATION WITH OWNER AND ARCHITECTURAL PLANS.
- (2) APPROXIMATE LOCATION OF EXISTING DOMESTIC COLD WATER ROUTED IN TUNNELS BELOW TO REMAIN.
- (3) APPROXIMATE LOCATION OF EXISTING SANITARY PIPING ROUTED IN TUNNELS BELOW TO REMAIN.
- (4) CONNECT NEW 1/2" DOMESTIC COLD WATER PIPING WITH SHUT-OFF VALVE TO EXISTING DOMESTIC COLD WATER PIPING IN TUNNEL. ROUTE PIPING UP IN CHASE AS REQUIRED TO CONNECT TO NEW ELECTRIC WATER COOLER IN FITNESS CENTER.
- (5) CONNECT NEW 2" SANITARY TO EXISTING SANITARY PIPING IN TUNNEL BELOW. ROUTE NEW 2" SANITARY PIPING UP THROUGH FLOOR IN CHASE AND CONNECT TO NEW ELECTRIC WATER COOLER IN FITNESS CENTER. INTENT IS TO UTILIZE NEW 2" SANITARY DRAIN AS A COMBINATION VENT WASTE CONNECTION. FIELD VERIFY EXACT PIPING ROUTES.
- (6) ROUTE NEW 2" SANITARY PIPING AND 1/2" DOMESTIC COLD WATER PIPING DOWN IN CHASE TO TUNNELS BELOW. COORDINATE EXACT CHASE LOCATION WITH ARCHITECTURAL PLANS.

GENERAL NOTES:

- MECHANICAL TRADES SHALL PROVIDE AND LOCATE ACCESS DOORS AS REQUIRED FOR ACCESS TO EQUIPMENT. ACCESS TO BE INSTALLED BY ARCHITECTURAL TRADES.
- . COORDINATE ALL PIPING LOCATED ABOVE THE FLOOR AND WITHIN TUNNEL SPACE WITH ALL OTHER TRADES. ROUTE PIPING AS NECESSARY TO AVOID CONFLICTS WITH ALL OTHER TRADES.
- . FURNISH AND INSTALL ISOLATION BALL VALVES ON ALL BRANCH PIPING TO EACH FIXTURE OF BRANCH CONNECTION.
- 4. ALL PLUMBING, PIPING, ETC. SHALL BE INSTALLED PER STATE/LOCAL CODES.
- NO PIPING SHALL BE LOCATED DIRECTLY ABOVE ELECTRICAL PANELS OR DEVICES. NO PIPING SHALL BE ALLOWED WITHIN 3'-0" OF PANELS, UNLESS PIPING IS HIGHER THAN 7'-0" ABOVE FINISHED FLOOR. VERIFY ALL PIPE ROUTING WITH ELECTRICAL







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PROJECT TITLE

FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE

FIRST FLOOR PLAN MECHANICAL REVISIONS

PROJECT NUMBER 2019113.34

SHEET NUMBER

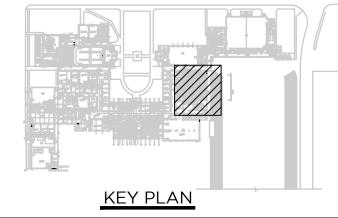
PROJECT DATE FEBRUARY 7, 2025

M1.01

CHECKED BY GRS

MECHANICAL SYMBOL LIST									
SAN — SANITARY PIPING BELOW FLOOR OR GRADE SAN — SAN — CO ABOVE FLOOR SAN — CO UP TO GRADE SAN — CO UP TO FLOOR SAN — VENT PIPING DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER P	ABV BF CW DF EX GPM V	ABOVE BARRIER FREE COLD WATER DRINKING FOUNTAIN EXISTING GALLONS PER MINUTE VENT							

NO.	REVISION	DATE



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PROJECT TITLE

FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE

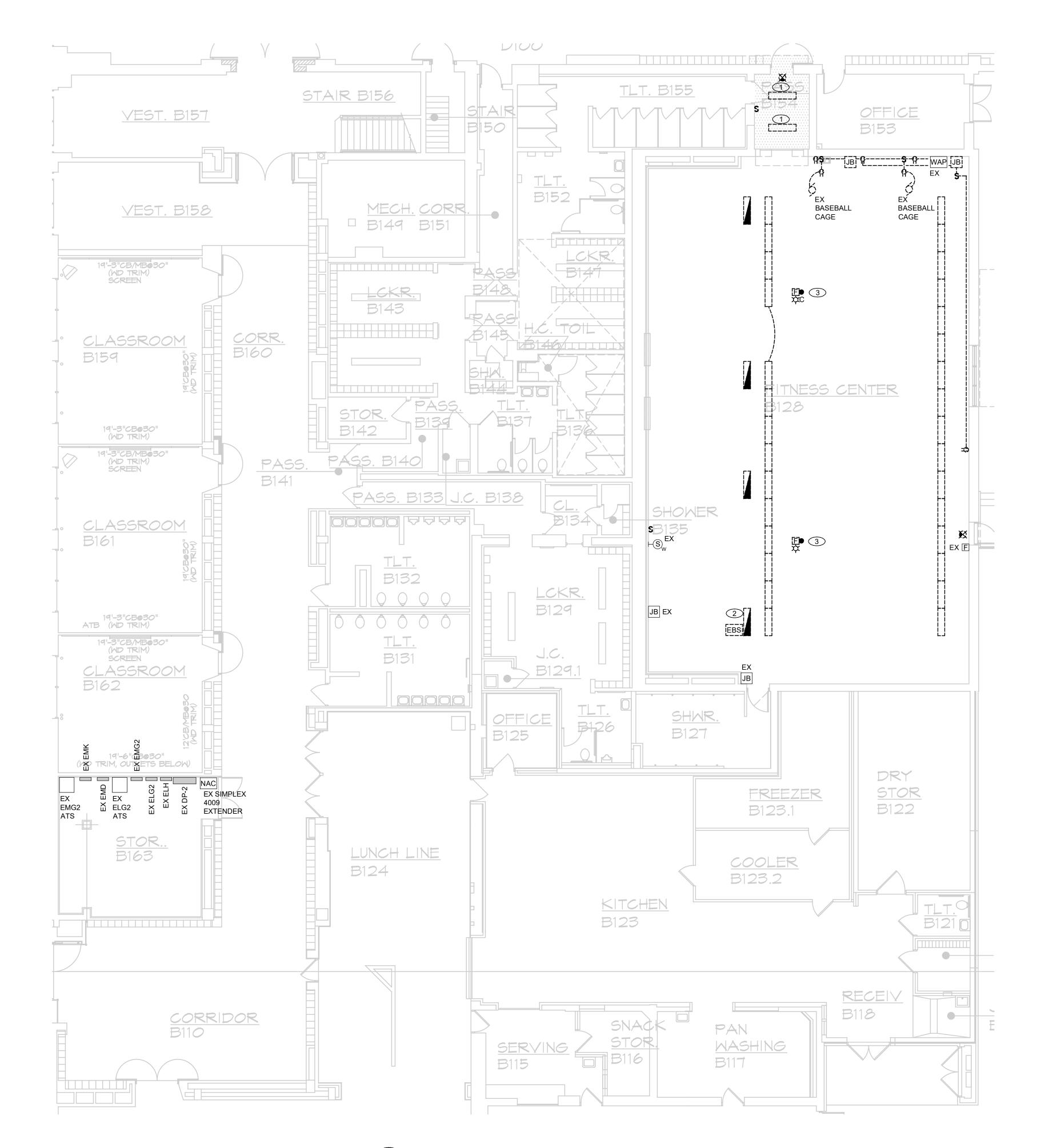
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MECHANICAL SCHEDULES

PROJECT NUMBER 2019113.34

SHEET NUMBER

PROJECT DATE FEBRUARY 7, 2025 M2.01 CHECKED BY



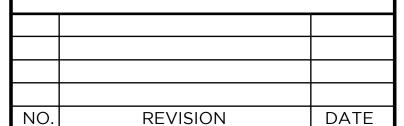


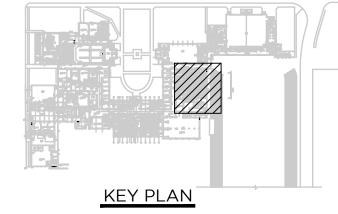
GENERAL NOTES DEMOLITION

- 1. ELECTRICAL PANELS SHOWN ON THE DEMO PLAN ARE SHOWN FOR REFERENCE. DO NOT REMOVE PANELS UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, LAMPS, BALLASTS AND WIRING SHOWN FOR DEMOLITION.
- 3. ELECTRICAL CONTRACTOR SHALL REMOVE ALL BLANK COVERS ON BOXES TO CONFIRM THE TYPE OF WIRING, POWER OR LOW VOLTAGE. REMOVE ALL WIRING, BOXES IF EMPTY SHALL BE REMOVED FOR WALL PATCHING.
- 4. ALL ITEMS SHOWN DASHED SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- S. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE FOR ALL DEVICES SHOWN TO BE REMOVED.
- 6. REMOVE ALL FIRE ALARM DEVICES AS NOTED.
 EXISTING MAIN FIRE ALARM CONTROL PANEL AND
 ASSOCIATED DEVICES IN AREA WITH LIMITED
 DEMOLITION SHALL REMAIN. IDENTIFY, PROTECT
 AND MARK EXISTING CABLING.
- 7. REMOVE ALL HANGERS, SUPPORTS AND STRAPS ASSOCIATED WITH ITEMS BEING REMOVED.

KEYED NOTES - DEMOLITION

- 1 ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING LIGHTING CIRCUIT FOR NEW LIGHTING.
- 2 ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING EMERGENCY LIGHTING CIRCUIT NEW EMERGENCY LIGHTING. LIGHT FIXTURE AND UL 924 DEVICE SHALL BE REMOVED AS PART OF THE DEMOLITION.
- 3 ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM DEVICE. EXISTING FIRE ALARMING WIRING SHALL BE RE-USED FOR NEW DEVICES.





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PROJECT TITLE

FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE

ELECTRICAL DEMOLITION PLAN

PROJECT NUMBER 2019113.34

SHEET NUMBER

PROJECT DATE
FEBRUARY 7, 2025
CHECKED BY

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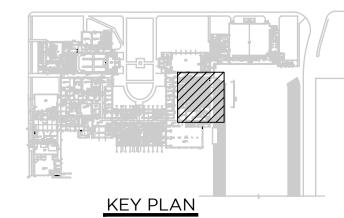
GENERAL NOTES DEMOLITION

- 1 ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING LIGHTING CIRCUIT FOR NEW LED LIGHTING. MODIFY AND EXTEND CIRCUIT AS NEEDED.
- 2 ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING EMERGENCY LIGHTING CIRCUIT. PROVIDE A NEW UL 924 POWER PACK. MODIFY AND EXTEND CIRCUIT AS NEEDED.

LIGHTING WIRING METHODS

- EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
- 2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND ON AN EMERGENCY GENERATOR CIRCUIT CONTROLLED VIA A UL 924 DEVICE.
- 3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
- 4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 12'-0".
- 5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
- OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
- 8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
- 9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.

NO. REVISION DATE



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PROJECT TITLE

FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL
BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE

ELECTRICAL LIGHTING PLAN

PROJECT NUMBER 2019113.34

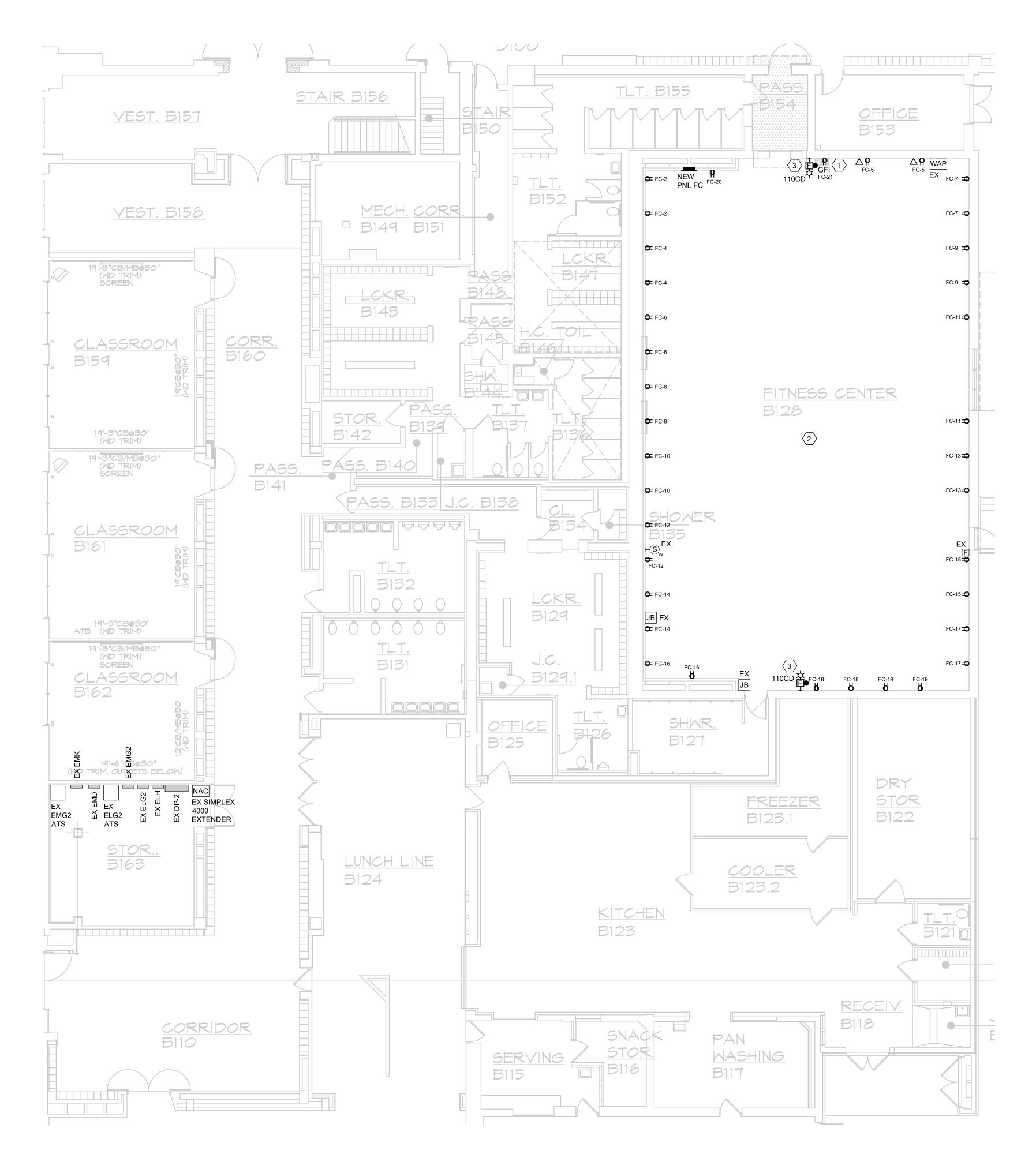
SHEET NUMBER

PROJECT DATE
FEBRUARY 7, 2025

E2.01

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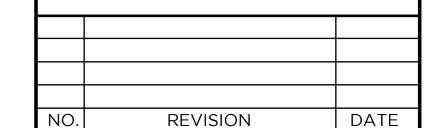


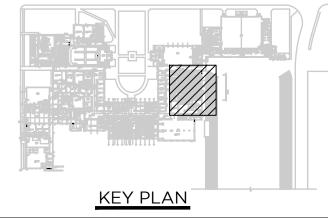
POWER & SYSTEMS WIRING METHODS

- 1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
- 2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT. PROVIDE ISOLATED GROUND CONDUCTOR FOR THE A/V CIRCUITS AS NOTED AND SPECIFIED.
- 3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
- 4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
- 5. ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
- 6. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT. PROVIDE STAINLESS STEEL POWER OUTLETS.
- 7. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
- 8. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
- WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
- 9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS PROJECT.
- 10. J-HOOKS AND D-RINGS SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, DATA, LIGHTING CONTROL, ETC.
- 11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
- 12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.

13. ALL RECEPTACLES SHALL BE TAMPER RESISTANT

- **GENERAL NOTES DEMOLITION**
- (1) ELECTRICAL CONTRACTOR SHALL INSTALL NEW RECEPTACLE FOR ELECTRIC WATER COOLER. CIRCUIT BREAKER FC-21 FEEDING RECEPTACLE SHALL BE GFCI.
- $\langle 2 \rangle$ ELECTRICAL CONTRACTOR SHALL SURFACE MOUNT ALL RECEPTACLES IN SPACE SHOWN ON MASONRY WALLS. COORDINATE FINAL MOUNTING LOCATIONS WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. UTILIZE SURFACE EMT CONDUIT PAINTED TO MATCH WALL. UTILIZE A CAST ALUMINUM BELL BOX FOR DEVICE. HUBBELL #5323-0
- $\langle 3 \rangle$ ELECTRICAL CONTRACTOR SHALL REUSE EXISTING FIRE ALARM WIRING FOR NEW SIMPLEX DEVICE TO TIE INTO EXISTING SIMPLEX FIRE ALARM SYSTEM. EXTEND AND MODIFY EXISTING FIRE ALARM WIRING TO LOCATION SHOWN AS NEEDED.







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PROJECT TITLE

FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE ELECTRICAL POWER & SYSTEMS PLAN

PROJECT NUMBER 2019113.34

SHEET NUMBER

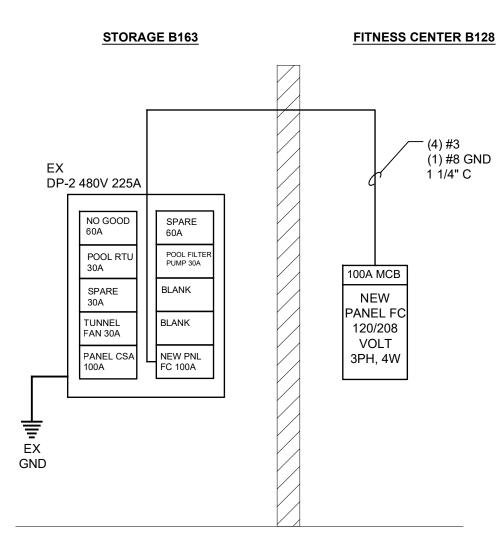
PROJECT DATE E2.02 FEBRUARY 7, 2025

CHECKED BY

4' LED WRAPAROUND, POLYCARBONATE DIFFUSER, 5000 LUMENS,

4000K COLOR TEMP, 0-10V DIMMING, MVOLT, SURFACE MOUNTED, 53.4 WATTS LITHONIA #FML4W 48 5000LM 840 ZT MVOLT, OR EQUAL

LED EXIT SIGN, ALUMINUM HOUSING, POLYCARBONATE COVER, TAMPER RESISTANT SCREWS, STENCIL FACE, WHITE ON WHITE, 1 FACE, RED LETTER, 120/277V, NICKEL CADMIUM BATTERY, BACK MOUNTING, SELF DIAGNOSTICS, 90 MINUTE MINIMUM RATING LIGHTNIA #LV S W 1 R 120/277 EL N SD, OR EQUAL



PARTIAL RISER DIAGRAM

LOAD SUMMARY	
LOADS REMOVED: 1. RECEPTACLES 2. LIGHTING TOTAL REMOVED: 3.7KVA @ 208 VOLT	0.9KVA 2.8KVA 3PH = 10.28 AMPS
LOADS ADDED: 1. RECEPTACLES 2. LIGHTING	6.67KVA 1.96KVA
TOTAL ADDED 8.63KVA @ 208 VOLT 3	BPH = 23.95 AMPS

		ELECTRICAL SYMBOLS LIST
		1'x4' LED FIXTURE, TYPE INDICATED
1		8' LED FIXTURE, TYPE INDICATED
		HALF-SHADED FIXTURE INDICATES EMERGENCY, TYPE INDICATED
	+⊠	MOUNTED EXIT LIGHT
	S	SINGLE POLE SWITCH
	$S_{\!_{M}}$	WALL MOTION SWITCH SENSOR ACUITY #WSX SERIES OR EQUAL
	S	LOW VOLTAGE ON/OFF BUTTON SWITCH ACUITY #NPODMA SERIES OR EQUAL
	P	POWER RELAY PACK ACUITY #NPP16 D SERIES OR EQUAL
	PPEM	UL 924 POWER RELAY PACK ACUITY OR EQUAL
	D20)	DUAL TECH, CEILING MOUNTED, LARGE-MOTION DETECTION, 2000 SQFT RADIAL COVERAGE SENSOR ACUITY #NCM PDT 10 SERIES OR EQUAL
	=	DUPLEX RECEPTACLE
	GFI - ⊅	GFI RECEPTACLE
	JB	JUNCTION BOX
	Ó	SINGLE PHASE MOTOR
	₹	GROUND
	∇	DATA OUTLET ROUGH-IN, (2 CAT6), 1" CONDUIT ROUTED TO ACCESSIBLE CEILING

PUBLIC ADDRESS SPEAKER WALL MOUNTED

FIX- FIRE ALARM HORN/STROBE #SIMPLEX

NAC FIRE ALARM NAC PANEL #SIMPLEX

PANELBOARD

EBS UL 924 DEVICE

EX EXISTING

WAP WIRELESS ACCESS POINT

WR WEATHER RESISTANT

DP DISTRIBUTION PANEL

PP POWER PANEL

LP LIGHTING PANEL

C CEILING

GND GROUND

MDP MAIN DISTRIBUTION PANEL

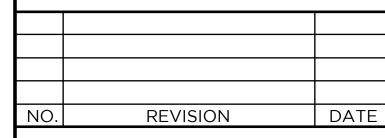
ATS AUTOMATIC TRANSFER SWITCH

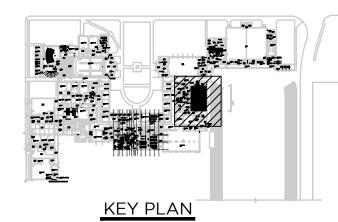
GFI GROUND FAULT CIRCUIT INTERRUPTER

ROUTED TO ACCES

RE\	/ISED	MAIN: SIZE & T	YPE: 22 !	S A		PANEL LOCATION:	STOR. B163			
DP-2		BUS RATING:	225				225A			
		VOLTAGE:	120 / 208 ∨ SURFAC	3 PH	4 W	FED FROM:	MDP			
CKT	O QMB PANELBOARD. QMB - 3051-2	MOUNTING: CIRCUIT DES		<u>, r.</u>		MIN RMS AMPS:	AMPS / POL			
1	NO GOOD									
							60A/3P			
2	SPARE						60A/3P			
3	POOL RTU						204 /20			
4	POOL FILTER PUMP						30A/3P			
•							30A/3P			
5	SPARE						30A/3P			
6	BLANK									
7	TUNNEL FAN NEXT TO POOL						•			
	· · · · · · · · · · · · · · · · · · ·						30A/3P			
8	BLANK									
9	PANEL CSA FEED									
		· · · · · · · · · · · · · · · · · · ·	·				100A/3P			
10	NEW PANEL FC		: : :				100A/3P			
N	OTES: 1. DP-2-10 SHALL HAVE NEW FUS 2. ELECTRICAL CONTRACTOR SHA TO VERIFY IT HAS THE CAPACITY	ALL TAKE A LOAD	READING OF EX	STING DP-2	PRIOR	TO DOING ANY WOR	ARE BUCKET. K IN THE PANE			

NEW	MAIN: SIZ			MCB								CENTER B128	
PNL FC									FEEDER S		100A		
SQ-D NQ PANEL	MOUNTIN	•	120 / 208 FLUSH	V 3	Ø,	4 ۷۷	IKE		FED FROM		DP-2 14KAIC		
•				AMPS /	СКТ	ΛШ	Гоит	AMPS /				_	Тс
CIRCUIT DESCRIPTION	H _A	OAD (KVA L) C	POLES	#	LOAD	"#	POLES		OAD (KV) B	C	CIRCUIT DESCRIPTION	١٢
1 FITNESS CENTER W. LIGHTS	0.932		J	20/1	1	LR		20/1	0.360			W. WALL PERIMETER RECEPT	t
3 FITNESS CENTER E. LIGHTS		1.025		20/1	3	L R		20/1		0.360		W. WALL PERIMETER RECEPT	t
5 N. WALL PERIMETER RECEPT	-		0.360	20/1		RR		20/1			0.360	W. WALL PERIMETER RECEPT	t
7 E. WALL PERIMETER RECEPT	0.360			20/1	7	RR		20/1	0.360			W. WALL PERIMETER RECEPT	T
9 E. WALL PERIMETER RECEPT		0.360		20/1	9	RR		20/1		0.360		W. WALL PERIMETER RECEPT	T
11 E. WALL PERIMETER RECEPT	-		0.360	20/1	11	RR	12	20/1			0.360	W. WALL PERIMETER RECEPT	T
13 E. WALL PERIMETER RECEPT	0.360			20/1	13	RR	14	20/1	0.360			W. WALL PERIMETER RECEPT	
15 E. WALL PERIMETER RECEPT	-	0.360		20/1	15	RR	16	20/1		0.360		SW. WALL PERIMETER RECEPT	
17 E. WALL PERIMETER RECEPT	-		0.360	20/1	17	RR	18	20/1			0.360	S. WALL PERIMETER RECEPT	Τ
19 S. WALL PERIMETER RECEPT	0.360			20/1	19	RR	20	20/1	0.180			PANEL RECEPTACLE	
21 ELEC WATER COOLER GFCI		0.370		20/1	21	RR	22	20/1				SPARE	
23 SPARE				20/1	23		24	20/1				SPARE	Π
25 SPARE				20/1	25		26	20/1				SPARE	
27 SPARE				20/1	27		28	20/1				SPARE	
29 SPARE				20/1	29		30	20/1				SPARE	;
31					31		32						T :
33					33		34						-;
35					35		36						;
37					37		38						[;
39					39		40						
41					41		42						Ŀ
LOAD SUMMARY	KVA	KVA CONNECTED								'A SUMMA	RY		
	A	В	С						TOTAL		DEMAND		
RECEPTACLES	R 2.340		2.160	-					6.670		6.670		
LIGHTING	L 0.932	1.025	0.000						1.957	1.000	1.957		
HVAC	H 0.000	0.000	0.000						0.000		0.000		
OTHER	0.000	0.000	0.000						0.000		0.000		
EXISTING	E 0.000	0.000		-					0.000	1.000	0.000		
TOTAL KVA	3.272	3.195	2.160						8.627			TOTAL ESTIMATE KVA	
VOLTS / PHASE	120	120	120						208		208	SYSTEM VOLTAGE	
AMPS / PHASE	27.267	26.625	18.000						23.947		23.947	AMPS	





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PROJECT TITLE

FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE

JWF

ELECTRICAL SYMBOLS AND PANEL SCHEDULE

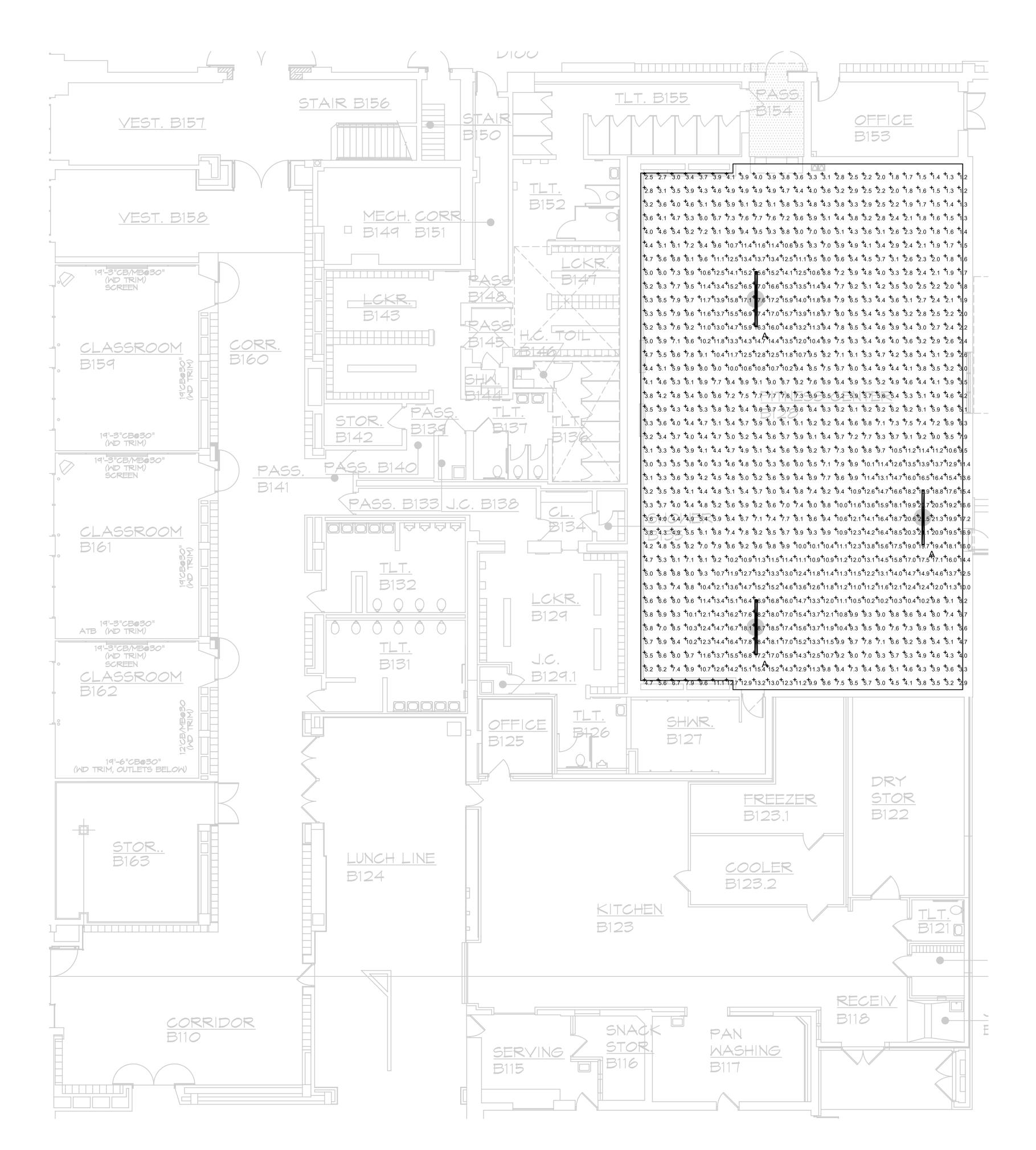
SHEET NUMBER

E3.01

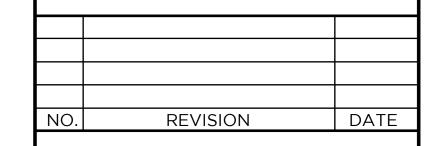
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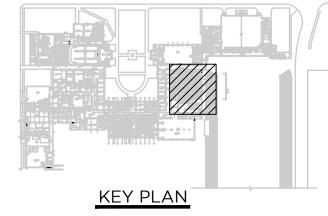
PROJECT DATE FEBRUARY 7, 2025

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Statistics											
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min					
FITNESS CENTER EM	+	8.2 fc	21.5 fc	1.2 fc	17.9:1	6.8:1					





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FITNESS CENTER RENOVATIONS

CENTRAL HIGH SCHOOL BAY CITY PUBLIC SCHOOLS

BAY CITY, MICHIGAN

SHEET TITLE

ELECTRICAL **EMERGENCY LIGHTING**

SHEET NUMBER

PROJECT NUMBER 2019113.34

PROJECT DATE FEBRUARY 7, 2025

E4.01 CHECKED BY