



REQUEST FOR BID PROPOSAL

NMC FOUNDATION OFFICES AT GREAT LAKES CAMPUS INTERIOR FURNITURE DESIGN, PROCUREMENT & INSTALLATION SERVICES

RELEASE DATE: Friday, August 21, 2026

1.0 INTRODUCTION

Northwestern Michigan College (NMC) Purchasing Department is issuing this Request for Bid Proposal on behalf of Northwestern Michigan College for the furnishing of the renovated NMC Foundation offices located at the Great Lakes Campus, 715 E. Front Street, Traverse City, Michigan.

Project Description

The project includes the procurement and installation of interior furnishings for a newly renovated office space for the NMC Foundation. The space will include:

- An open office area accommodating up to ten (10) workstations, along with additional seating
- One (1) private office
- One (1) conference room

Renovation of the space is scheduled to begin in late August, with anticipated completion in late fall. Furniture delivery and installation will commence immediately following substantial completion of construction.

2.0 TERMS & CONDITIONS

Bid Submission Requirements

Sealed bids for a stipulated sum contract must be received no later than **2:00 p.m. on Tuesday, September 8, 2026**.

Bid proposals shall be submitted electronically as a PDF attachment via email to **Don Loeffler** at **dloeffler@nmc.edu**. The subject line of the email must read:

“NMC Foundation Offices Furniture Bid”

Bids received after the specified date and time will not be considered.

Bids will be opened privately. Northwestern Michigan College complies with all applicable federal and state laws and regulations, including requirements prohibiting contracting with sanctioned individuals or entities.

The College reserves the right to accept or reject any and all proposals, to negotiate terms of proposal(s) with successful vendor(s), to accept a proposal that is not the lowest cost, and to accept the proposal(s) that is in the best interest of NMC. In no particular order, evaluation criteria include: the bidder's ability to satisfy each term and condition, compliance with the content requirements and specifications, experience with delivering the requirements of the specification, cost, ability to provide quality and timely service, and other relevant factors.

Questions and Clarifications

Any questions, requests for clarification, identified discrepancies, or omissions related to this RFP must be submitted in writing to the Project Contact no later than **Friday, August 28, 2026**:

Andy Lin, Cornerstone Architects
Email: alin@cornerstone-arch.com
Phone: 231-947-2177 ext. 106

If clarification is required, written responses and/or addenda will be distributed to all prospective bidders no fewer than four (4) days prior to the bid due date. NMC assumes no responsibility for verbal interpretations of the RFP and bidders should rely solely on written communications issued by the Project Contact.

3.0 PROPOSAL SCHEDULE & KEY PROJECT DATES:

- Proposals Due: September 8, 2026 at 2:00pm
- FFE Partner Selection: No later than September 28, 2026
- Design Start: September 29, 2026
- Estimated Furniture Install: November 2026

4.0 REQUESTED PROPOSAL CONTENT:

Proposal Submission Requirements

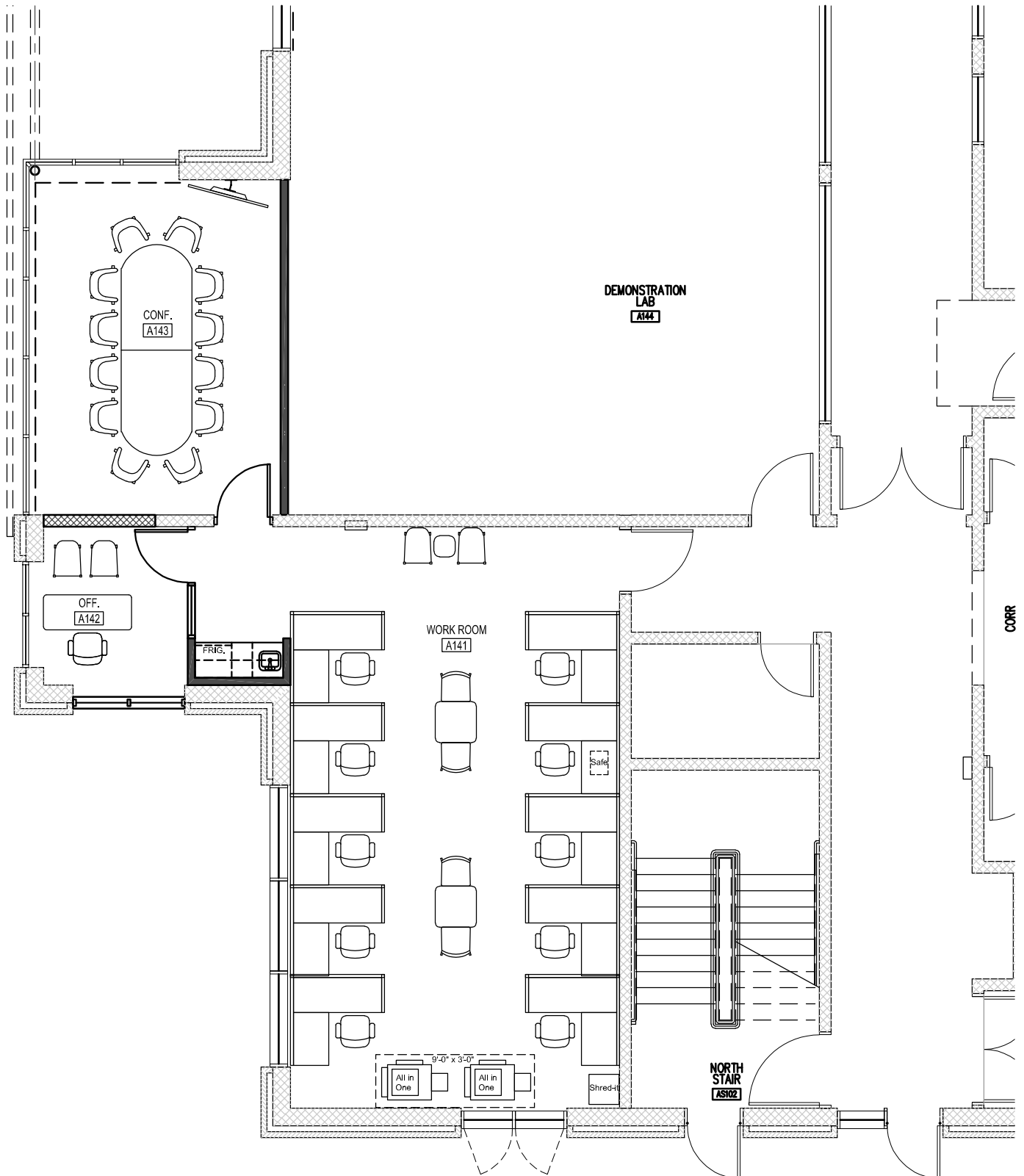
Proposals should include the following information:

1. **Firm Profile and Project Team**
Provide an overview of your firm, including relevant experience, key qualifications, and the proposed project team.
2. **Project Approach and Schedule**
Describe your approach to the project and provide an anticipated schedule aligned with the Owner's renovation and occupancy timeline.
3. **Relevant Project Experience**
Include three (3) to six (6) examples of comparable projects that demonstrate your firm's experience with similar office furnishing and installation projects.
4. **Furniture Package Overview**
Provide a high-level outline of the furnishings proposed for the project, including estimated quantities by furniture type.
5. **Furniture Cost Estimate**
Submit a preliminary estimate of furniture costs, including **low-, mid-, and high-range budget scenarios**. Please include warranties to be furnished including warranty period and cost of warranty.
6. **Design, Procurement and Installation Fees**
Identify your design, specification, procurement and installation fees, expressed as either a percentage of Furniture costs or a fixed fee.

5.0 REFERENCE DOCUMENTS:

- Attachment A: Proposed Furniture Layout
- Attachment B: Foundation Office Renovation Construction Documents

END OF RFP



ATTACHMENT A: FURNITURE PLAN

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

Northwestern Michigan College

NMC Foundation

BID - PERMIT



Northwestern Michigan College
NMC FOUNDATION

713 East Front Street
Traverse City, MI 49684

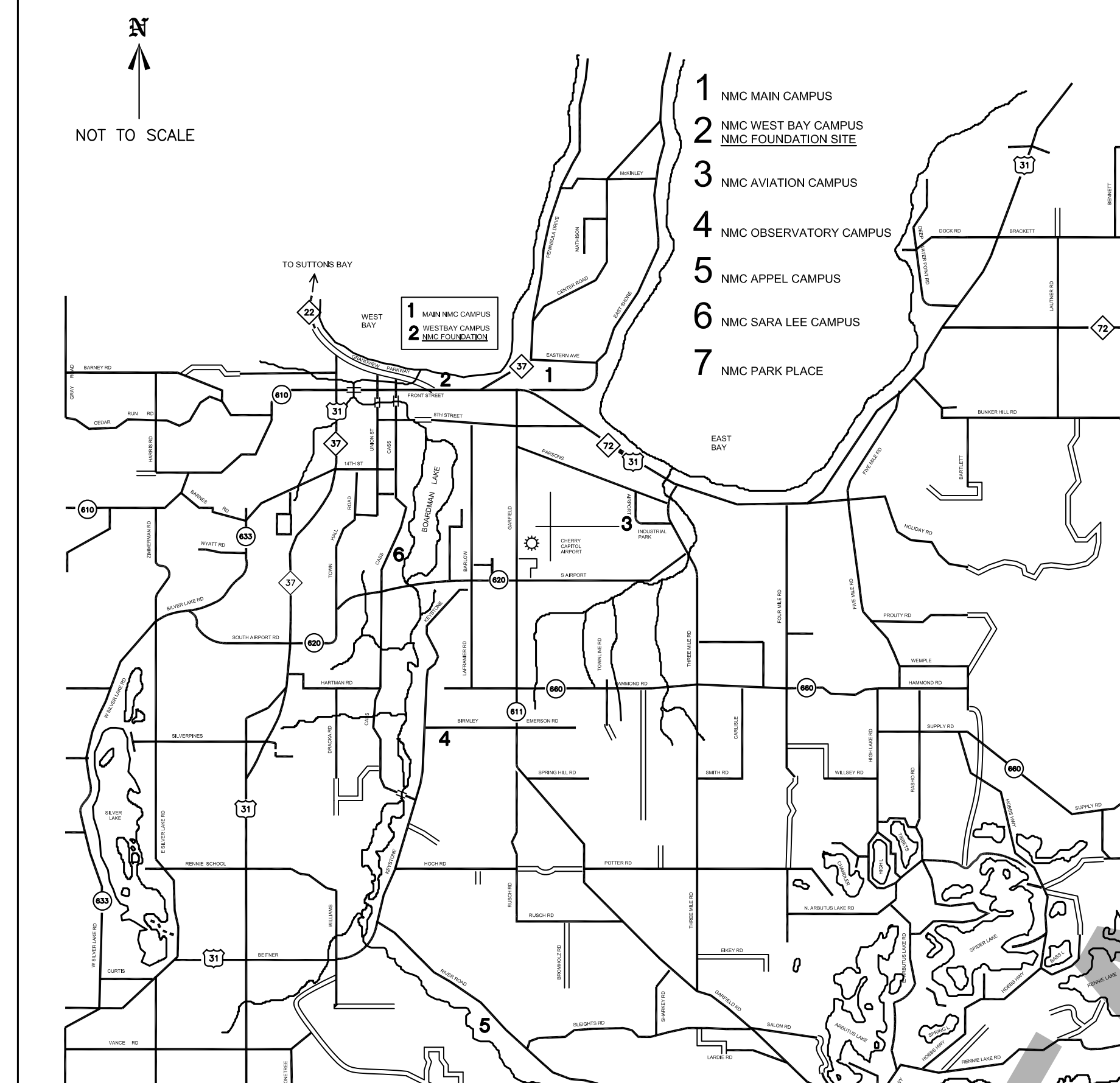
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[illegible]

PROJECT NO:	26.513
SHEET TITLE:	TITLE SHEET
SHEET NO:	

ATS

LOCATION MAP



GENERAL NOTES

1. OWNERSHIP AND USE OF DOCUMENTS.
- THIS IS AN INSTRUMENT OF PROFESSIONAL SERVICE AND SHALL REMAIN THE PROPERTY OF DTMB WHETHER THE PROJECT FOR WHICH IT IS MADE IS EXECUTED OR NOT. NO CHANGES, ALTERATIONS, ADDITIONS OR DELETIONS MAY BE MADE HERETO EXCEPT BY THE ARCHITECT AND SHALL NOT BE USED OR REPRODUCED BY ANYONE ON OTHER PROJECTS OR FOR COMPLETION OF THIS PROJECT BY OTHERS WITHOUT THE EXPRESS WRITTEN CONSENT OF CORNERSTONE ARCHITECTS, INC.. SUBMISSION OR DISTRIBUTION TO MEET REGULATORY REQUIREMENTS OR FOR PURPOSES IN CONNECTION WITH THIS PROJECT IS NOT TO BE CONSTRUED AS PUBLICATION IN DEROGATION OF THE RIGHTS OF CORNERSTONE ARCHITECTS, INC.
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2. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE CURRENT FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES AT THE TIME THE PLANS WERE REVIEWED AND APPROVED. ALL SUCH CODES AND COMPLIANCE ARE TO BE DEEMED AS PART OF THIS CONTRACT AND PART OF THE CONSTRUCTION DOCUMENTS AS THEY HAVE BEEN WRITTEN IN FULL. IN THE EVENT OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
3. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
4. HOLD INDICATED DIMENSIONS, DO NOT SCALE DRAWINGS. RESOLVE ANY DISCREPANCIES WITH THE ARCHITECT BEFORE BEGINNING WORK.
5. IN THE CASE OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE SPECIFICATIONS SUPERCEDE THE DRAWINGS AND THE BETTER QUALITY, MORE EXPENSIVE, OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION.
6. ALL CONSTRUCTION THAT IS ALREADY IN PLACE AND IS TO REMAIN AS PART OF THE PROJECT SHALL BE PROTECTED FROM DAMAGE AND PROTECTED THROUGHOUT THE PERIOD OF CONSTRUCTION WORK. CONTRACTOR TO TAKE PRE-CONSTRUCTION PHOTOS TO BE USED AS PROOF OF EXISTING CONDITIONS. ANY DAMAGE DURING CONSTRUCTION TO FEATURES AND OR ITEMS TO REMAIN IN PLACE SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE OWNER WITH MATERIALS EQUIVALENT OR SUPERIOR TO THE ORIGINAL ITEM(S). IF NO PROOF CAN BE PROVIDED, CONTRACTOR MUST REPAIR AT THEIR EXPENSE.
7. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL DIMENSIONS AND INSPECT CONDITIONS OF PRIOR WORK OF THE OTHER TRADES BEFORE STARTING WORK. PROCEEDING WITH THE WORK SHALL CONSTITUTE ACCEPTANCE OF PRIOR WORK.
8. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. SEALANT, CAULKING, AND FLASHING LOCATIONS SHOWN ON DRAWINGS ARE NOT INTENDED TO BE INCLUSIVE. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND STANDARD INDUSTRY AND BUILDING PRACTICE.
10. IN ALL CASES WHERE WORK DEPICTED IN THESE DRAWINGS REPRESENTS A COMPLETE SYSTEM COMPOSED OF SEPARATE PARTS, IT IS THE RESPONSIBILITY OF THE CM/ GENERAL CONTRACTOR TO PROVIDE ALL OF THE PARTS, COMPONENTS, ACCESSORIES, HARDWARE, FASTENERS, ETC. REQUIRED FOR A COMPLETE AND FULLY FUNCTIONING ASSEMBLY WITHIN THE DEFINITIONS OF NORMAL INDUSTRY STANDARDS, WHETHER OR NOT THESE MISCELLANEOUS ITEMS ARE DIRECTLY SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR SHORING AND STABILIZATION BUILDING THROUGHOUT PROJECT TO PREVENT MOVEMENT/ SHIFTING/ COLLAPSE. ESPECIALLY CONCERNING LOG REPLACEMENT AND WINDOW REMOVAL/ REINSTALLATION INTO EXISTING OPENINGS.

ABBREVIATIONS

ABV	ABOVE	HDW, HW	HARDWARE
ACT	ACOUSTICAL CEILING	HM	HOLLOW METAL
ADA	AMERICANS W/ DISABILITIES ACT	HOR	HORIZONTAL
ADJ	ADJACENT	HP	HIGH POINT
AFJ	ABOVE FINISH FLOOR	HWD	HARDWOOD
ALT	ALTERNATE	IGU	INSULATED GLAZING UNIT
ALUM	ALUMINUM	INSUL	INSULATION
BF	BARRIER FREE	INT	INTERIOR
BIT	BITUMINOUS	L	ANGLE
BLD	BUILDING	LVR	LOUVER
BLKG	BLOCKING	LVT	LUXURY VINYL TILE
BO	BOTTOM OF	MAINT	MAINTENANCE
BOT	BOTTOM	MAX	MAXIMUM
BRG	BEARING	MB	MARKERBOARD
BTW	BETWEEN	MECH	MECHANICAL
CFA	COLD FLUID APPLIED	MFR, MANUF	MANUFACTURER
CG	CORNER GUARD	MIN	MINIMUM
CJ	CONTROL JOINT	MO	MASONRY OPENING
CLNG	CEILING	MTL	METAL
CLR	CLEAR	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONT	CONTINUOUS	OFCI	OWNER FURNISHED, CONTRACTOR
COORD	COORDINATE		INSTALLED
CPT	CARPET	OH	OVER HEAD
CT	CERAMIC TILE	OPP	OPPOSITE
CTP	COUNTER TOP	PLAM	PLASTIC LAMINATE
CTR	CENTER	PL	PLATE
DEMO	DEMOLITION	PNL	PANEL
DIA	DIAMETER	PTD	PAINTED
DIM	DIMENSION	PT	PRESSURE TREATED
DN	DOWN	QTY	QUANTITY
DTL	DETAIL	R	RADIUS, RISER
DWG	DRAWING	RB	RUBBER BASE
EA	EACH	REINF	REINFORCING
ELEV	ELEVATION	RD	ROOF DRAIN
EQ	EQUAL	RO	ROUGH OPENING
EQUIP	EQUIPMENT	RQ, RQD	REQUIRED, REQUIREMENTS
(E), EXIST	EXISTING	RT	RUBBER TILE
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SPEC	SPECIFICATIONS
FB	FLOOR BOX	SQ	SQUARE
FD	FLOOR DRAIN	SS	SOLID SURFACE
FE	FIRE EXTINGUISHER	SSTL	STAINLESS STEEL
FE&C	FIRE EXTINGUISHER & CABINET	STL	STEEL
FIN	FINISHED)	SUSP	SUSPENDED
FL, FLR	FLOOR	T	TREAD
FT	FEET	T&G	TONGUE & GROOVE
FRP	FIBER REINFORCED PLASTIC	TEMP	TEMPERATURE
FTG	FOOTING	TO	TOP OF
FV	FIELD VERIFY	TYP	TYPICAL
'G	ING	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE	VCT	VINYL COMPOSITE TILE
GALV	GALVANIZED	VERT	VERTICAL
GB	GRAB BARS	VIF	VERIFY IN FIELD
GC	GENERAL CONTRACTOR	W/	WITH
GL	GLASS, GLAZING	WD	WOOD
GWB	GYPSUM WALL BOARD		
GYPBRD	GYPSUM WALL BOARD		

DRAWING INDEX:

REFERENCE

ATS - 1	Title Sheet
ADA	ADA Barrier Free Clearances
CODE-1	Code Plan

ARCHITECTURAL

A101	Demo Plan, Floor Plan,
A102	Reflected Ceiling, Finish and Furniture Plans

PLUMBING

PD101	Plumbing Demo Plan
P101	Plumbing Plan
P200	Plumbing Schedules

MECHANICAL

MD101	Mechanical Demo Plan
M101	Mechanical Plan
M200	Mechanical Schedules

ELECTRICAL

E000	Electrical Schedules
ED101	Electrical Demo Plan
E101	Electrical Plan
E200	Electrical Schedules
E900	Electrical Specifications
E901	Electrical Specifications
E902	Electrical Specifications
ELC	Emergency Lighting Calculations

M, E & P:

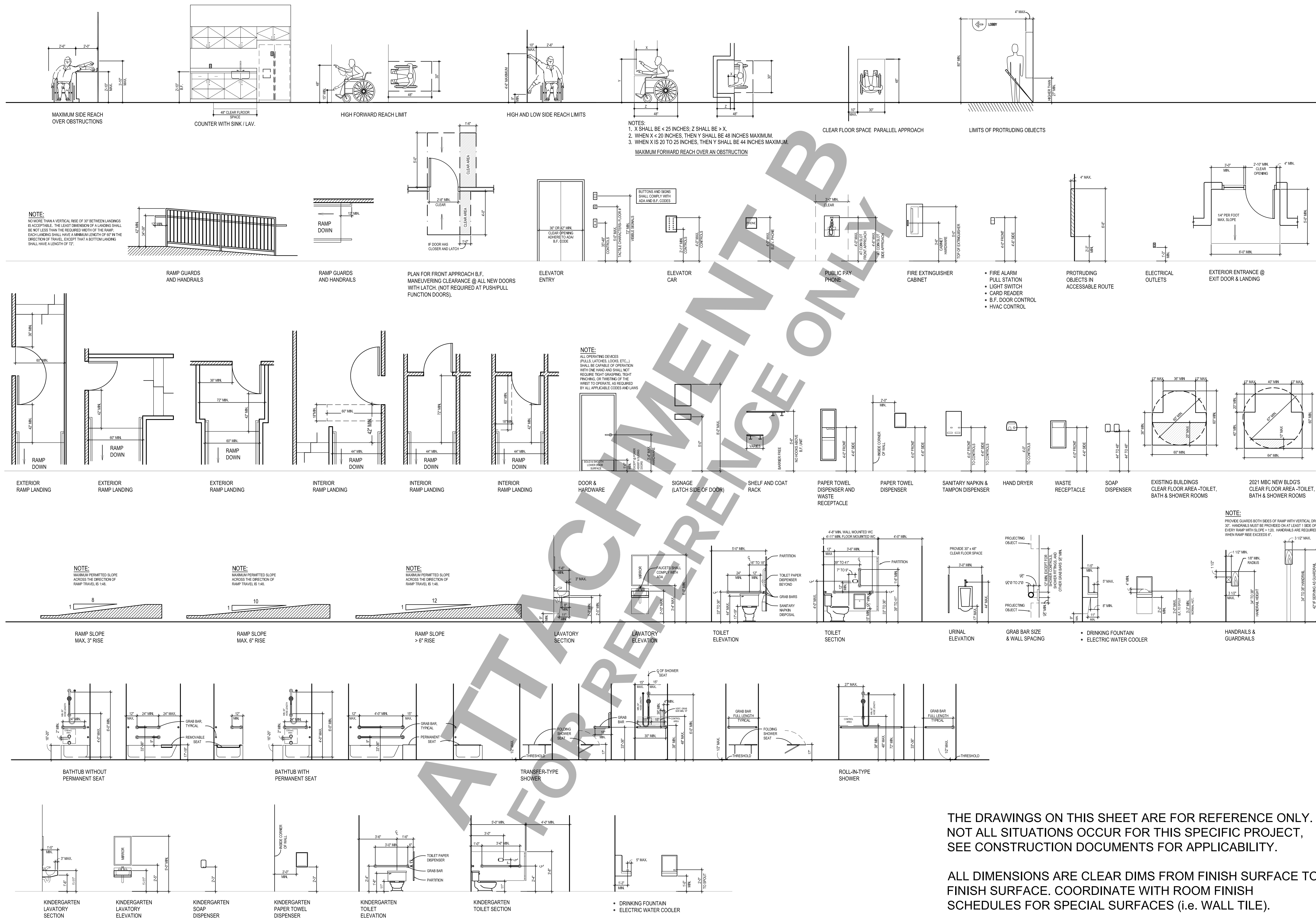
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Traverse City, Michigan 49684
ph: 231.933.0510
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email: jvanbrocklin@nealisengineering.com
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OWNER:

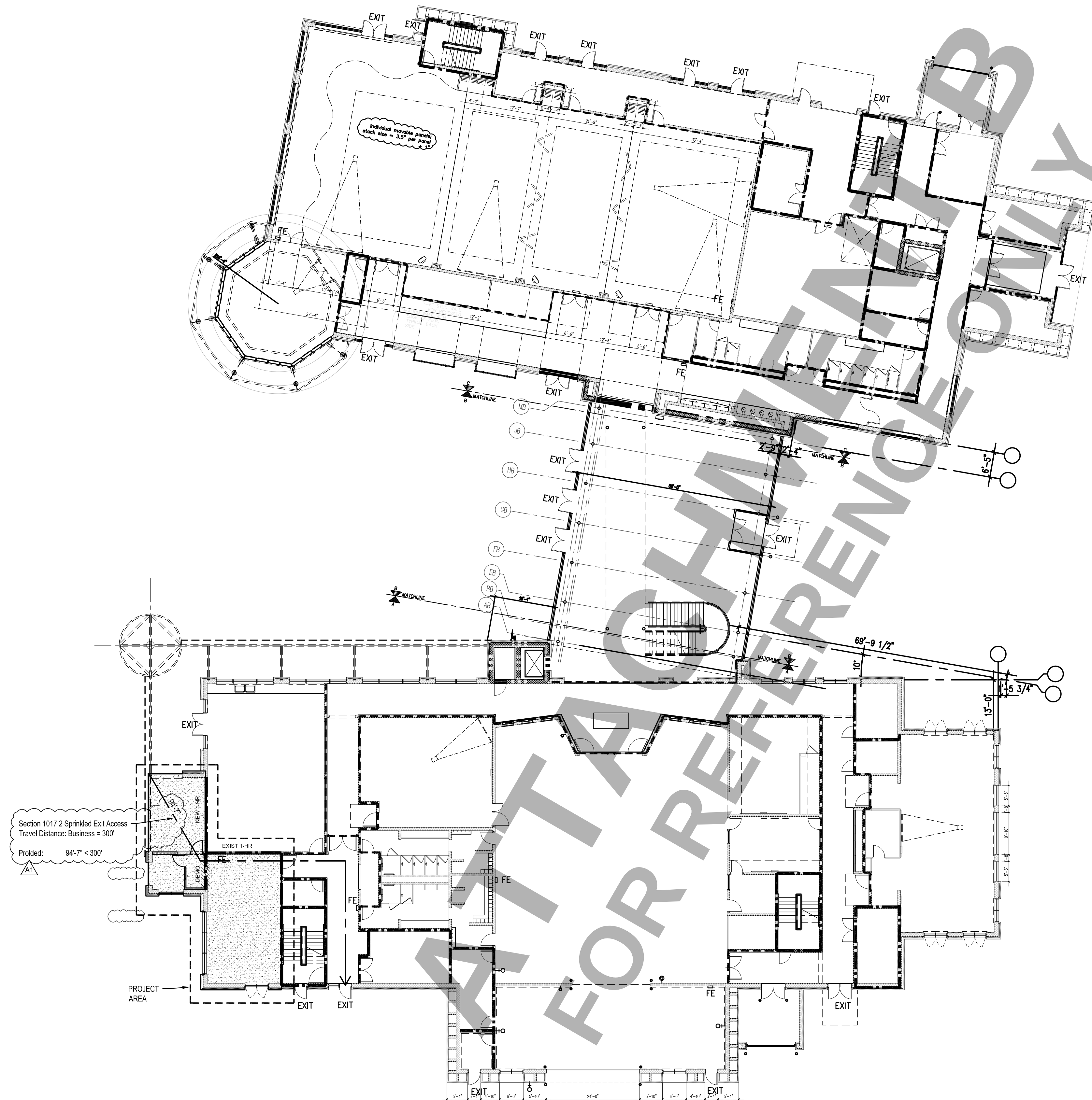
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1701 E. Front street
Traverse City, Michigan 49684
ph: 231.995.1114
email: pquinlan@nmc.edu
contact: Patrick Quilan



ALL DIMENSIONS ARE CLEAR DIMS FROM FINISH SURFACE TO
FINISH SURFACE. COORDINATE WITH ROOM FINISH
SCHEDULES FOR SPECIAL SURFACES (i.e. WALL TILE).

ADA

RECOMMENDED HEIGHTS FOR CHILDREN



FIRST FLOOR CODE PLAN
SCALE: 1/16" = 1'-0"

CODE INFORMATION:

THIS FACILITY IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES THAT GOVERN STATE OF MICHIGAN PROJECTS:

MICHIGAN BUILDING CODE 2021 Effective April 09, 2025
MICHIGAN PLUMBING CODE 2021 Effective March 12, 2024
MICHIGAN MECHANICAL CODE 2021 Effective March 12, 2024
MICHIGAN ELECTRICAL CODE 2023 Effective March 12, 2024
MICHIGAN ENERGY CODE 2021 Effective April 20, 2017
ACC/ANSI A 117.1-2017
ANSI/ASHREA/ IENSA STANDARD 90.1-2013
MICHIGAN BARRIER FREE CODE
NFPA 101 2016

SEPARATED MIXED USE: (NO CHANGE)
A2 & A3 (ASSEMBLY, B (BUSINESS)) (NO CHANGE)

CONST. TYPE: 2-B (NO CHANGE)
SPRINKLED: YES

TOTAL BUILDING AREAS (NO CHANGE): 80,186 SF

RENOVATION AREA: 1,148 SF

OCCUPANCY LOAD (NO INCREASE) 1,728 OCC.

EXITS REQUIRED (NO CHANGE)

PLUMBING FIXTURE COUNTS (NO CHANGE)

CODE PLAN SYMBOLS:

EXISTING 1-HOUR PARTITION:

1-HOUR PARTITION:

DEMO 1-HOUR PARTITION:

EXISTING 2-HOUR BARRIER:

EGRESS PATH:

FIRE EXTINGUISHER & CABINET:

FIRE EXTINGUISHER:

1 HOUR SEPARATION WALL:
(UL U423 - frame; UL U905 - cmu)

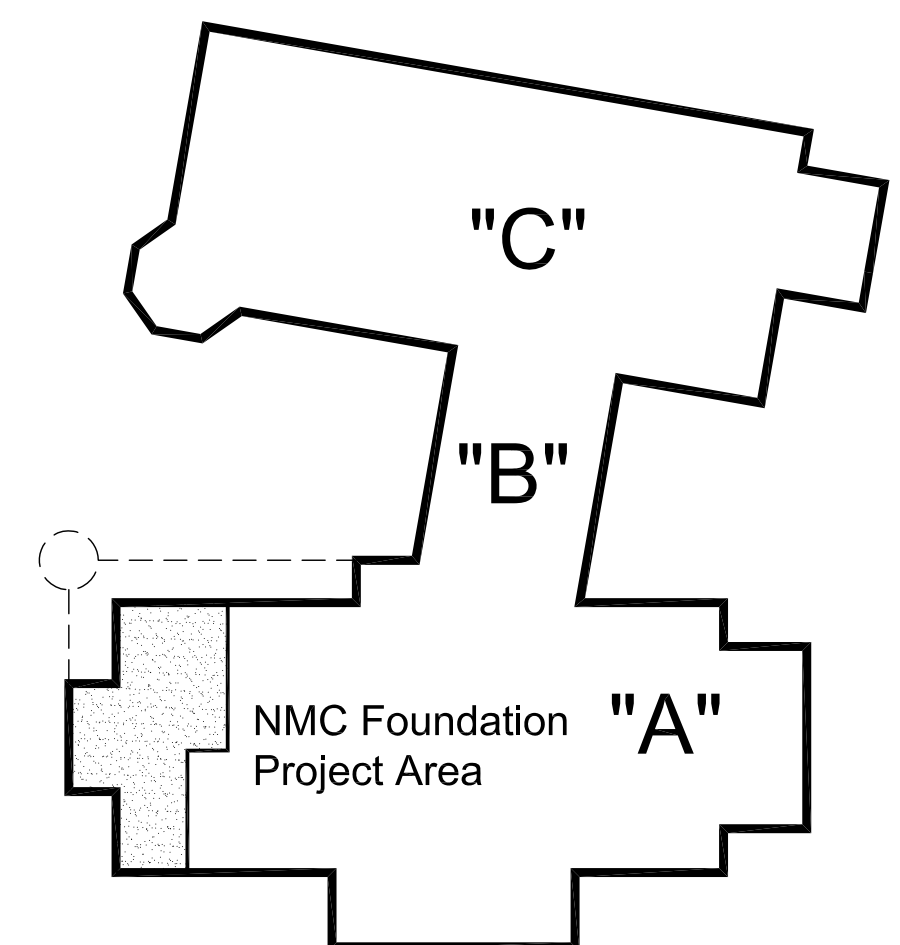
2 HOUR SEPARATION WALL:
(UL U301 - frame; UL U905 - cmu)

DRAFTSTOPPING:
(maximum 3,000 sf)

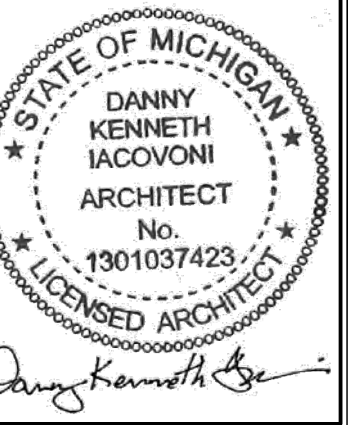
FEC

ROOM AREA SCHEDULE

Loc #	Location	Load SF
A141	WORK ROOM	662sf
A142	OFF.	73sf
A143	CONF.	278sf
		1014sf



KEY - PLAN
N.T.S.



Northwestern Michigan College
NMC FOUNDATION

715 East Front Street
Traverse City, MI 49684

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CORNERSTONE ARCHITECTS
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DATE: 07-17-2026
ISSUED FOR: BID-PERMIT
08-03-2026 ADDENDUM-01

PIC: JD
PM: DK

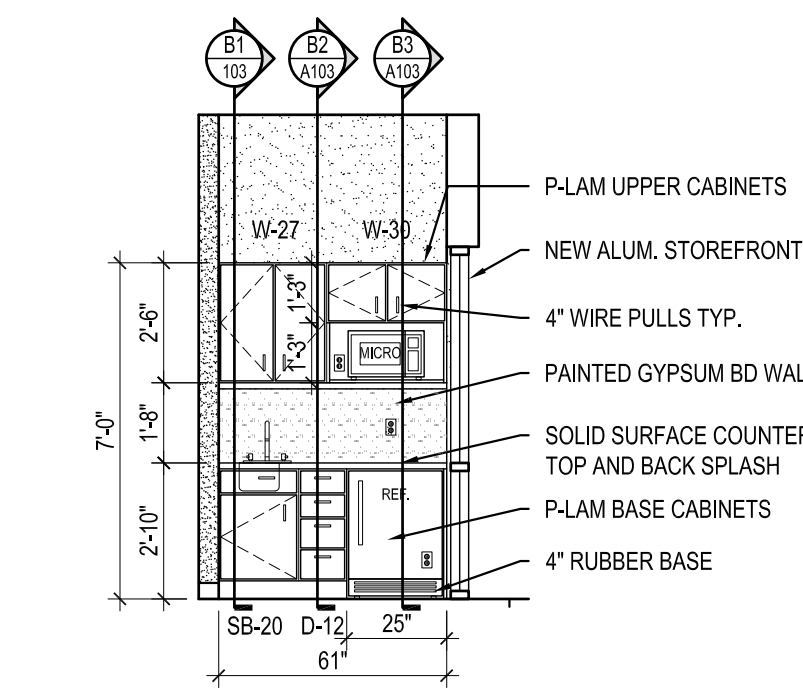
DRAFTS:
PROJECT NO:

26.513

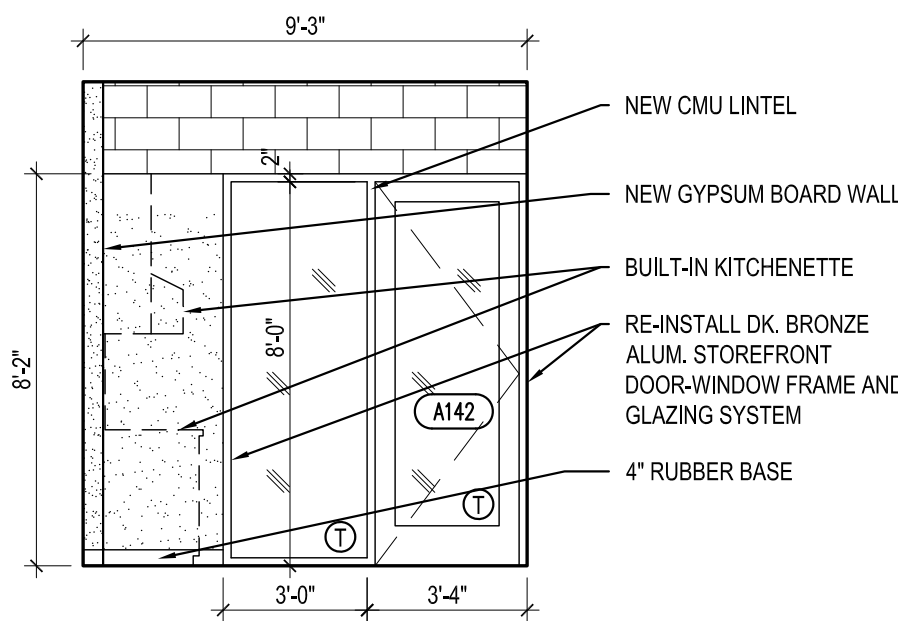
SHEET TITLE:
CODE - DEMO
FLOOR PLANS

SHEET NO:

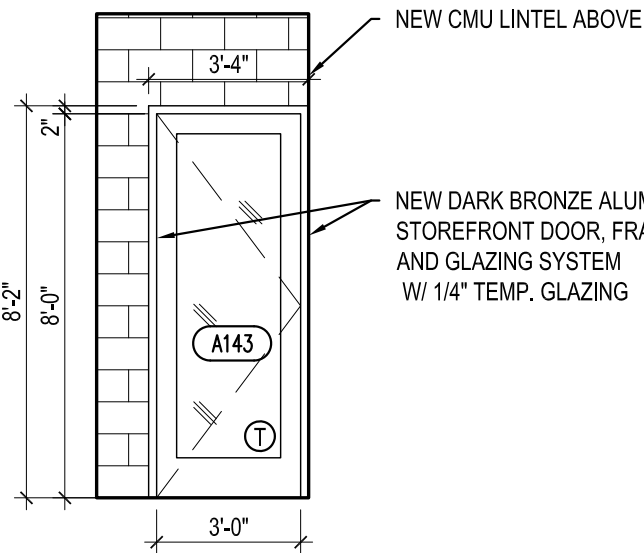
CODE-1



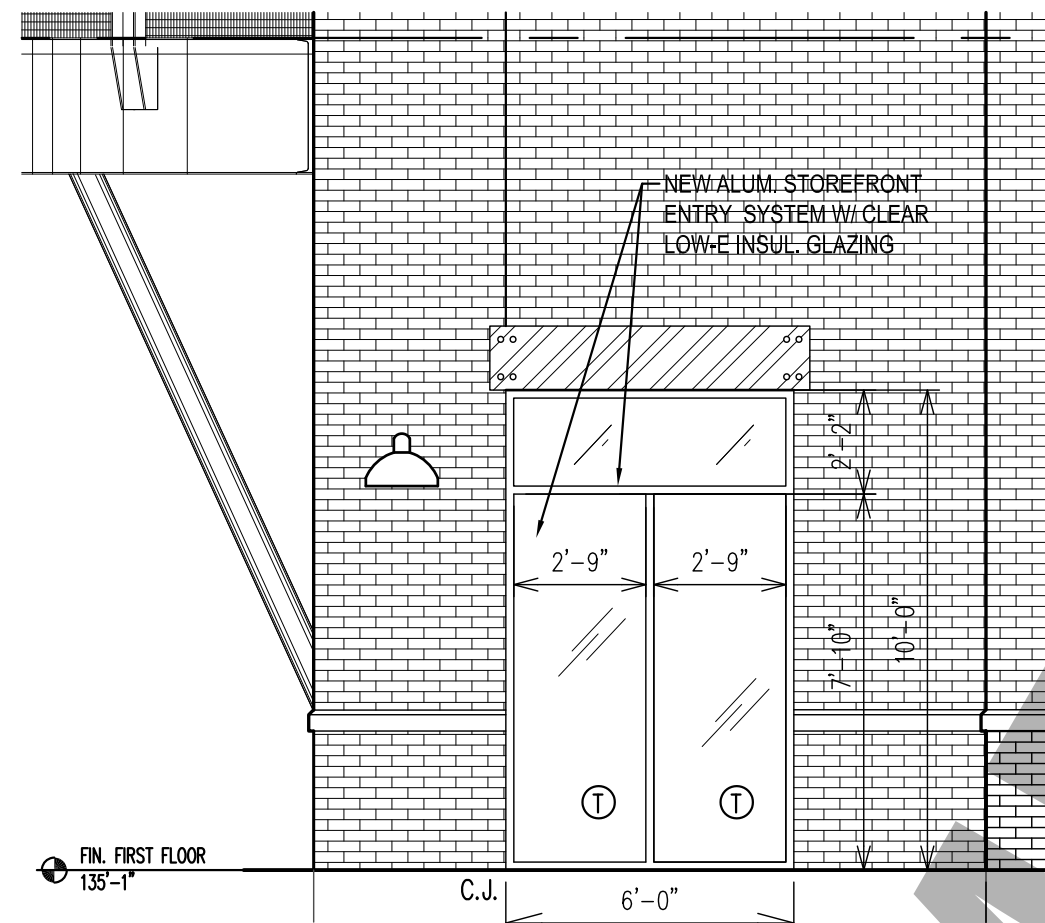
C3
A101 KITCHENETTE ELEV.
SCALE: 1/4" = 1'-0"



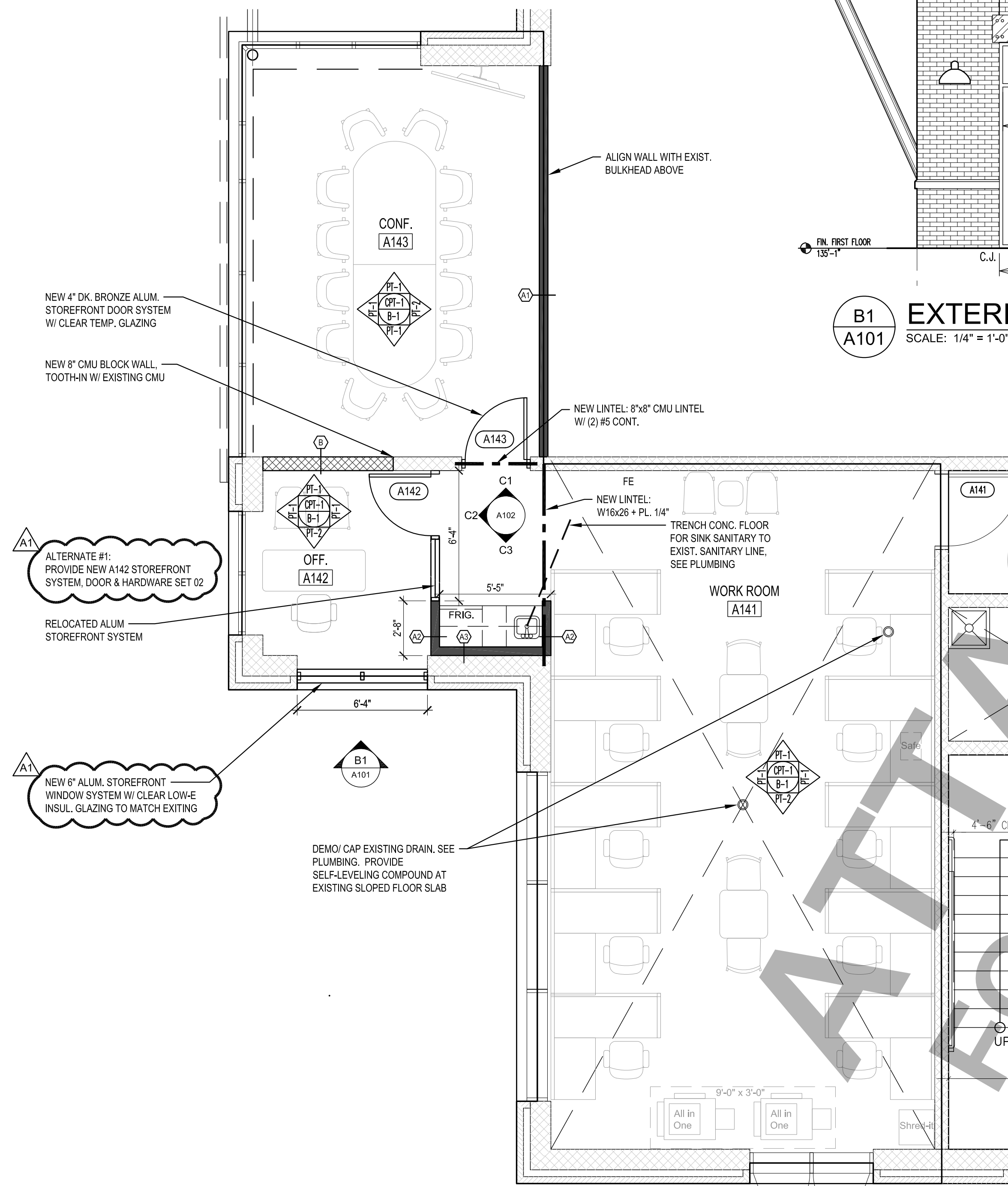
C2
A101 INTERIOR ELEV.
SCALE: 1/4" = 1'-0"



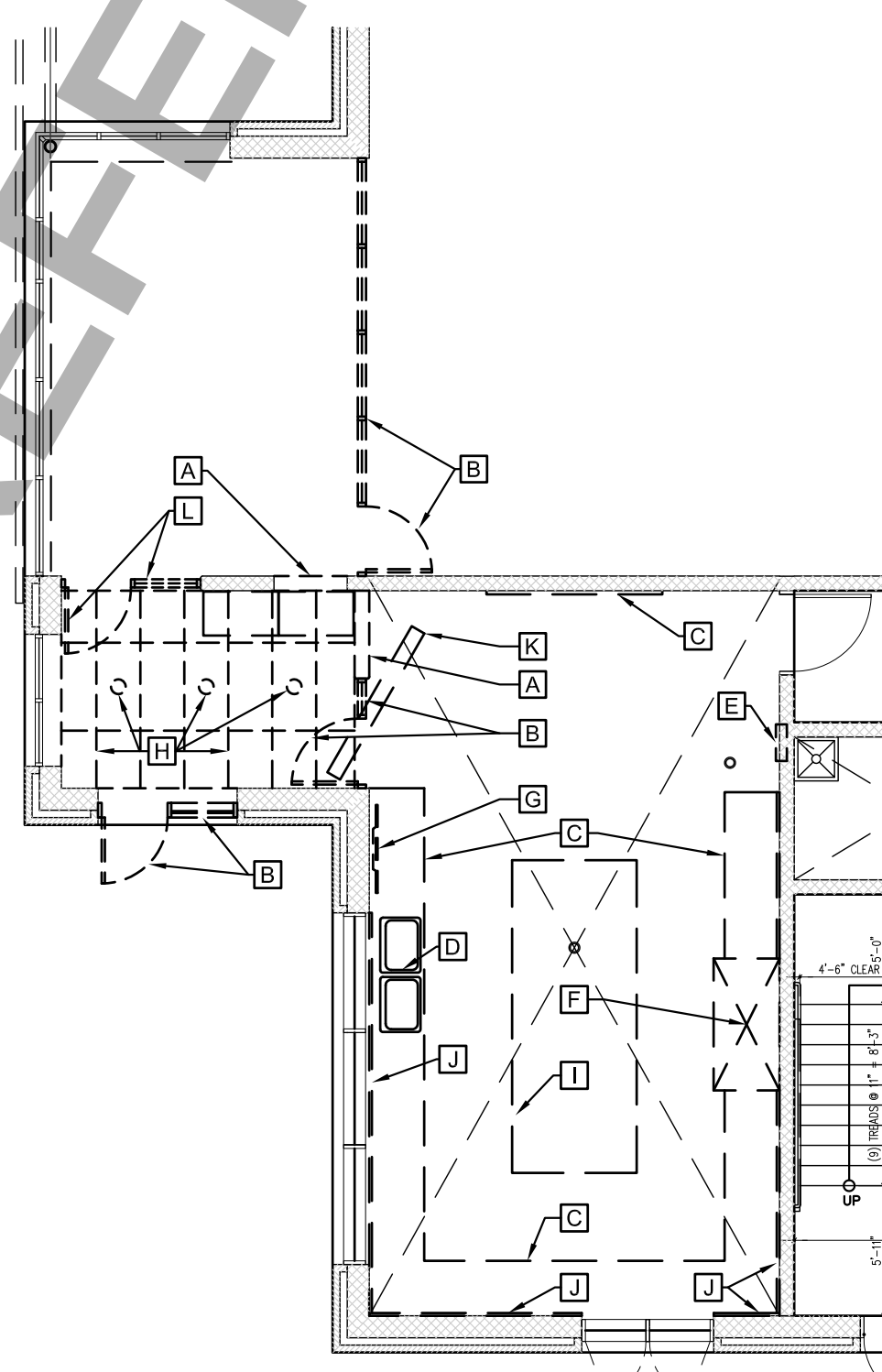
C1
A101 INTERIOR ELEV.
SCALE: 1/4" = 1'-0"



B1
A101 EXTERIOR ELEV.
SCALE: 1/4" = 1'-0"



A2
A101 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



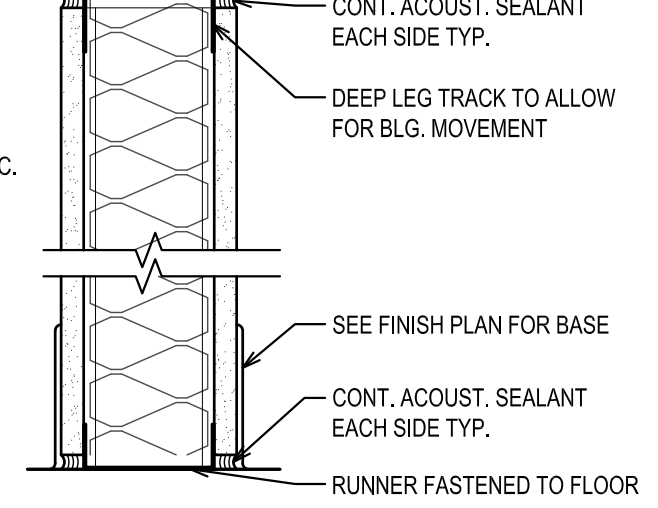
A1
A101 DEMO PLAN
SCALE: 1/8" = 1'-0"

WALL TYPE LEGEND

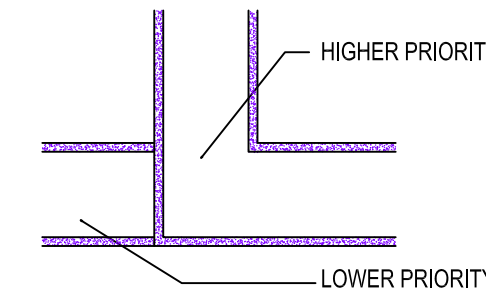
TYPE	FIRE RATING	TEST	MIN. STC RATING	DESCRIPTION
A1	1-HOUR	UL U411	56	TWO LAYERS OF 5/8" TYPE "X" FIRE RATED GYPSUM WALLBOARD EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C.. W/ 3 1/2" BATT INSUL.. (NOTE 5)
A2	---	---	47	ONE LAYER 5/8" GYPSUM WALLBOARD EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C.. W/ 3 1/2" BATT INSUL.. (NOTE 5)
A3	---	---	47	ONE LAYER 5/8" GYPSUM WALLBOARD ONE SIDE OF 3 5/8" METAL STUDS AT 16" O.C.. W/ 3 1/2" BATT INSUL.. (8" ABOVE CLG. GRID)
B	---	---	---	8" REINFORCED CONCRETE MASONRY UNIT (NOTE 5)

GENERAL WALL TYPE NOTES

- DIMENSIONS ARE FOR DESIGN PURPOSES ONLY. CONTRACTOR TO COORDINATE & FIELD VERIFY ALL FINAL DIMENSIONS. DIMENSIONS SHOWN ARE TO THE FACE OF FINISHED DRYWALL.
- PROVIDE METAL STRAPPING/WOOD BLOCKING AT ALL CASEWORK, BATHROOM & KITCHEN ACCESSORIES, MARKER & TACK BOARDS, DISPLAY CASES, COAT HOOKS, ETC. & FOR ALL FUTURE INSTALLED ITEMS AS PER PLANS & ELEVATIONS.
- ALL FIRE RATED PARTITIONS SHALL BE CONSTRUCTED FULL HEIGHT TO & SEALED AGAINST UNDERSIDE OF STRUCTURE. SEAL ALL EDGES W/ FIRE RATED SEALANT.
- ALL WALLS THAT ARE CALLED OUT TO EXTEND TO DECK, OR ABUT STRUCTURAL MEMBERS, ARE TO HAVE A DEEP LEG TRACK AT THE HEAD TO ALLOW FOR BUILDING DEFLECTION.
- PROVIDE ALL DIAGONAL BRACING REQUIRED FOR A COMPLETE WALL ASSEMBLY
- PROVIDE ALL WINDOW HEADERS, IN WALL COLUMNS, ETC., NOT CALLED OUT WIN NON-STRUCTURAL FRAMED WALLS AS REQUIRED. PROVIDE HIGHER GAUGE STEEL WHEN REQUIRED.



- TWO HOUR FIRE & SMOKE WALL — PRIORITY 1 HIGHEST
- TWO HOUR FIRE WALL — PRIORITY 2
- TWO HOUR SHAFT WALL — PRIORITY 2
- ONE HOUR FIRE & SMOKE WALL — PRIORITY 3
- ONE HOUR FIRE WALL — PRIORITY 4
- NON-RATED WALL — PRIORITY 5 LOWEST



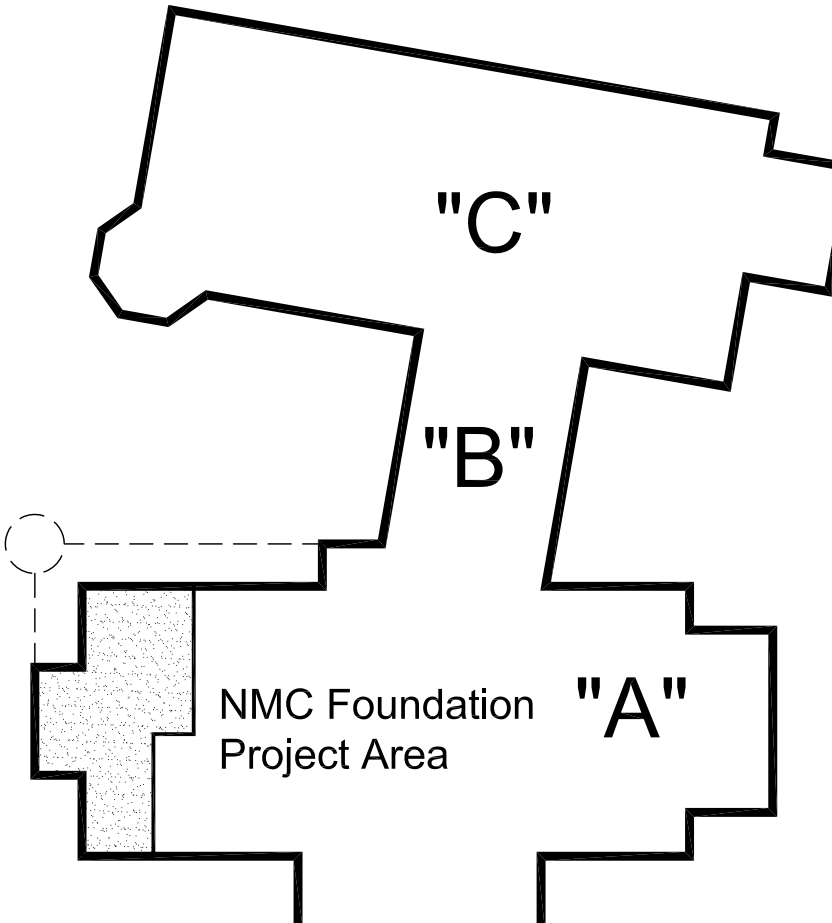
*Partition head to structure connections shall provide mechanical anchorage devices that accommodate deflection using slotted holes, screws & anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition.

NOTES - DEMO - TAGS

- A. DEMO 8" CMU CONCRETE BLOCK WALL
- B. DEMO ALUMINUM STOREFRONT WINDOW/ DOOR SYSTEM
- C. DEMO BASE AND UPPER CABINETS
- D. DEMO PLUMBING SINKS AND FIXTURES, CAP AT WALL
- E. DEMO RECESSED EYE WASH, INFILL CMU TO MATCH EXISTING
- F. DEMO LAB, LAB HOOD, CAP EXHAUST DUCT ABOVE CEILING
- G. DEMO TV AND TV WALL BRACKET
- H. DEMO 2x4 SUSPENDED CEILING GRID, PADS AND CAN LIGHTS
- I. DEMO CEILING MOUNTED LAB UTILITY RACK
- J. DEMO SURFACE MOUNTED ELECTRICAL RACEWAY
- K. TRENCH CONCRETE FLOOR FOR SINK SANITARY DRAIN LINE TO EXISTING SANITARY LINE
- L. SALVAGE ALUMINUM STOREFRONT WINDOW/ DOOR SYSTEM FOR REINSTALLATION AT NEW OFFICE WALL

GENERAL DEMO NOTES

- OBTAIN PROPER PERMITS PRIOR TO THE COMMENCEMENT OF DEMOLITION. ALL SUBMITTAL AND FEES ARE THE RESPONSIBILITY OF THE G.C
- THE GENERAL CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO COMPLETE DEMOLITION, REMOVAL AND RE-USE OF ALL ITEMS SHOWN ON DRAWINGS.
- ALL WORK DEMOLISHED SHALL BE REMOVED FROM THE PREMISES DAILY, EXCEPT ITEMS TO BE REUSED OR RETURNED TO THE OWNER, OR AS DIRECTED OTHERWISE. REMOVE AND DISPOSE OF ALL MATERIALS IN A LEGAL MANNER, USING LABOR, MATERIALS AND EQUIPMENT AS NECESSARY.
- REFER TO ATTACHED FLOOR PLANS FOR EXISTING CONSTRUCTION TO REMAIN, EXTENT OF DEMOLITION, AND SCHEDULED ITEMS FOR RELOCATION. THE OWNER RETAINS ALL SALVAGE RIGHTS. REVIEW WITH THE OWNER ALL ITEMS OF POTENTIAL SALVAGE AND STORE APPROPRIATELY. THE USE OF NON-SALVAGED ITEMS IN NEW CONSTRUCTION NOT PERMITTED WITHOUT WRITTEN PERMISSION FROM THE OWNER AND THE ARCHITECT. ITEMS NOT APPROVED FOR SALVAGE BY THE OWNER, ARE TO BE PROPERLY DISPOSED OF BY THE G.C.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS TO PROTECT BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT ALL PHASES OF CONSTRUCTION AREAS AND OCCUPIED OR PUBLIC AREAS TO BE MAINTAINED BY CONTRACTOR. PROTECT OR TEMPORARILY REMOVE ALL ITEMS THAT ARE EXISTING TO REMAIN. RESET TEMPORARY REMOVALS ACCURATELY AND SECURELY. DAMAGE TO EXISTING TO REMAIN CONSTRUCTION, MATERIALS OR EQUIPMENT TO BE RESTORED TO ORIGINAL CONDITION OR AS OUTLINED IN THE CONSTRUCTION DOCUMENTS.
- THE GENERAL CONTRACTOR SHALL ERECT ALL NECESSARY PLASTIC DROP CLOTH PARTITIONS, BARRICADES, AND OTHER METHODS OF DUST CONTROL TO ASSURE A SAFE AND NEAT DEMOLITION PROCESS AND TO PROTECT ADJACENT BUILDING PROPERTIES. THE USE OF EXPLOSIVES AND BURNING ARE NOT PERMITTED.
- DEMOLITION AND TRENCHING, CUTTING, BORING, AND REPAIR ASSOCIATED WITH TRADES IS THE RESPONSIBILITY OF THAT TRADE. COORDINATE WITH THE G.C. PRIOR TO DEMOLITION WORK.
- ALL TRADES ARE TO REVIEW EXISTING CONDITIONS AND INCLUDE DEMOLITION OF EXISTING SYSTEMS AS REQUIRED BY SCOPE OF NEW WORK.
- THE GENERAL CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, SWITCH PLATES, TELEPHONE OR ELECTRICAL WIRING OR EQUIPMENT, ETC. TO THE SOURCE AFTER WALL DEMOLITION.
- REMOVE EXISTING MECHANICAL COMPONENTS AS REQUIRED TO ACCOMMODATE NEW HVAC DESIGN AND DUE TO CEILING RELATED WORK, SALVAGE DEVICES AS PRACTICAL FOR REUSE. CLEAN/REPLACE SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES, CALIBRATE AND RELOCATE THERMOSTATS, AND INSTALL NEW DUCTWORK AS REQUIRED.
- REMOVE EXISTING AND/OR RELOCATE EXISTING LIGHT FIXTURES AND OTHER CEILING DEVICES AS REQUIRED TO ACCOMMODATE REFLECTED CEILING PLAN, ALL EXISTING FIXTURES DEVICES SHALL BE CLEANED, (INCLUDING LENS), DAMAGED PARTS REPAIRED OR REPLACED, AND RE-LAMPED AS NECESSARY.
- REMOVE EXISTING CEILING AND FLOORING FINISH AS REQUIRED FOR INSTALLATION OF NEW.
- PROVIDE SELECTIVE DEMOLITION TO EXPOSE AND CONFIRM BEARING WALLS, COLUMNS, FOOTINGS, OR FOUNDATIONS PRIOR TO FULL DEMOLITION. USE EXTREME CAUTION, AND PROVIDE STRUCTURAL SHORING AS REQUIRED.
- USE CAUTION WHEN LOADING FLOORS ABOVE OTHER SPACES. DO NOT CONCENTRATE LOADS. USE SHORING IF REQUIRED.
- MAINTAIN ALL MEANS OF EGRESS DURING DEMOLITION. KEEP PUBLIC RIGHT OF WAY CLEAR OF DEBRIS, HAZARDS, ETC.
- IF HAZARDOUS MATERIALS ARE DISCOVERED, CEASE DEMOLITION AND CONTACT OWNER FOR REMEDIATION, CONTAINMENT OR OTHER APPROVED METHOD.



KEY - PLAN
N.T.S.

Northwestern Michigan College
NMC FOUNDATION

715 East Front Street
Traverse City, MI 49684

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DATE: 07-17-2026 ISSUED FOR: BID-PERMIT
08-03-2026 ADDENDUM-01

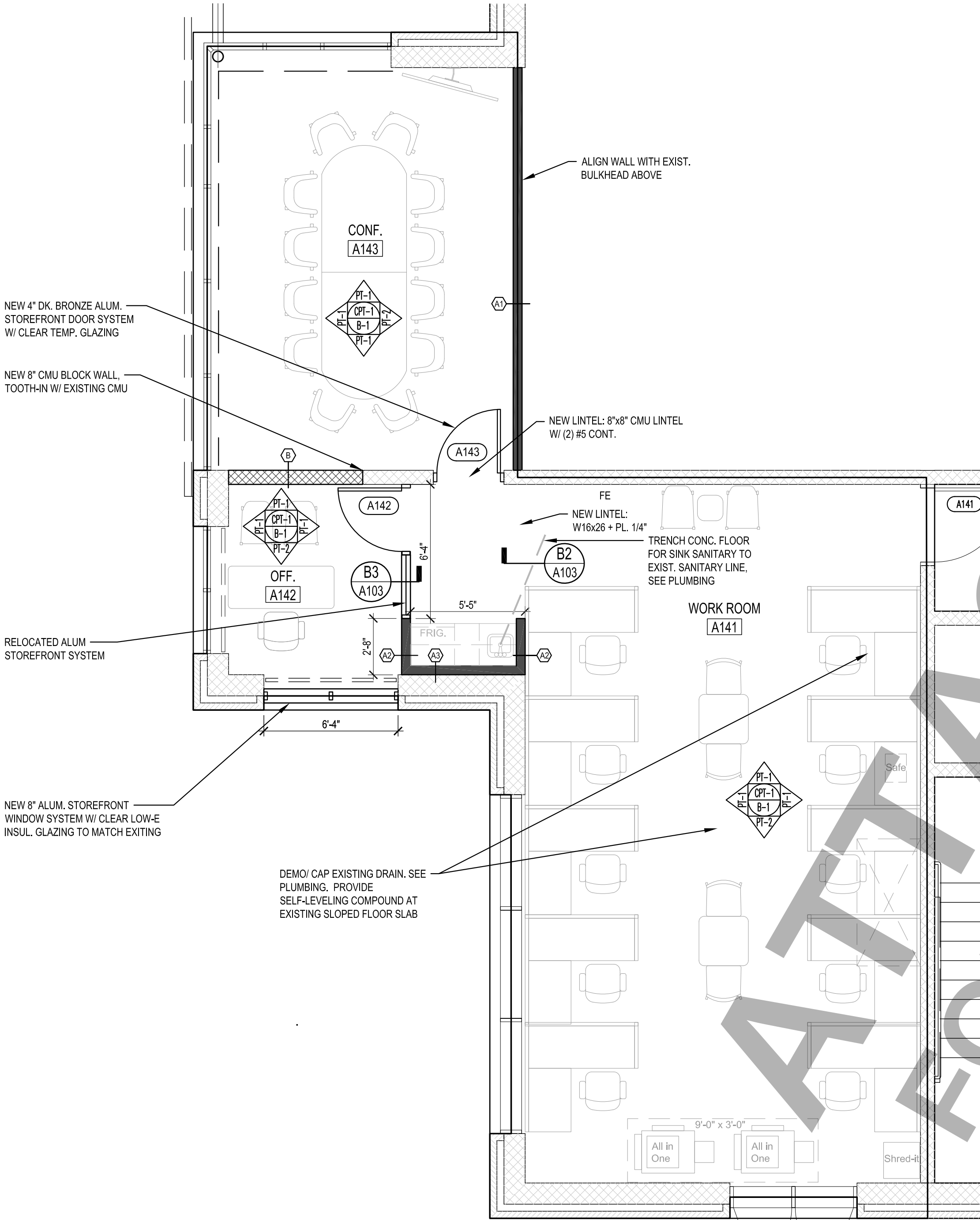
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DRAFTS:
PROJECT NO: 26.513
SHEET TITLE: DEMO PLAN FLOOR PLAN ELEVATIONS
SHEET NO:

A101

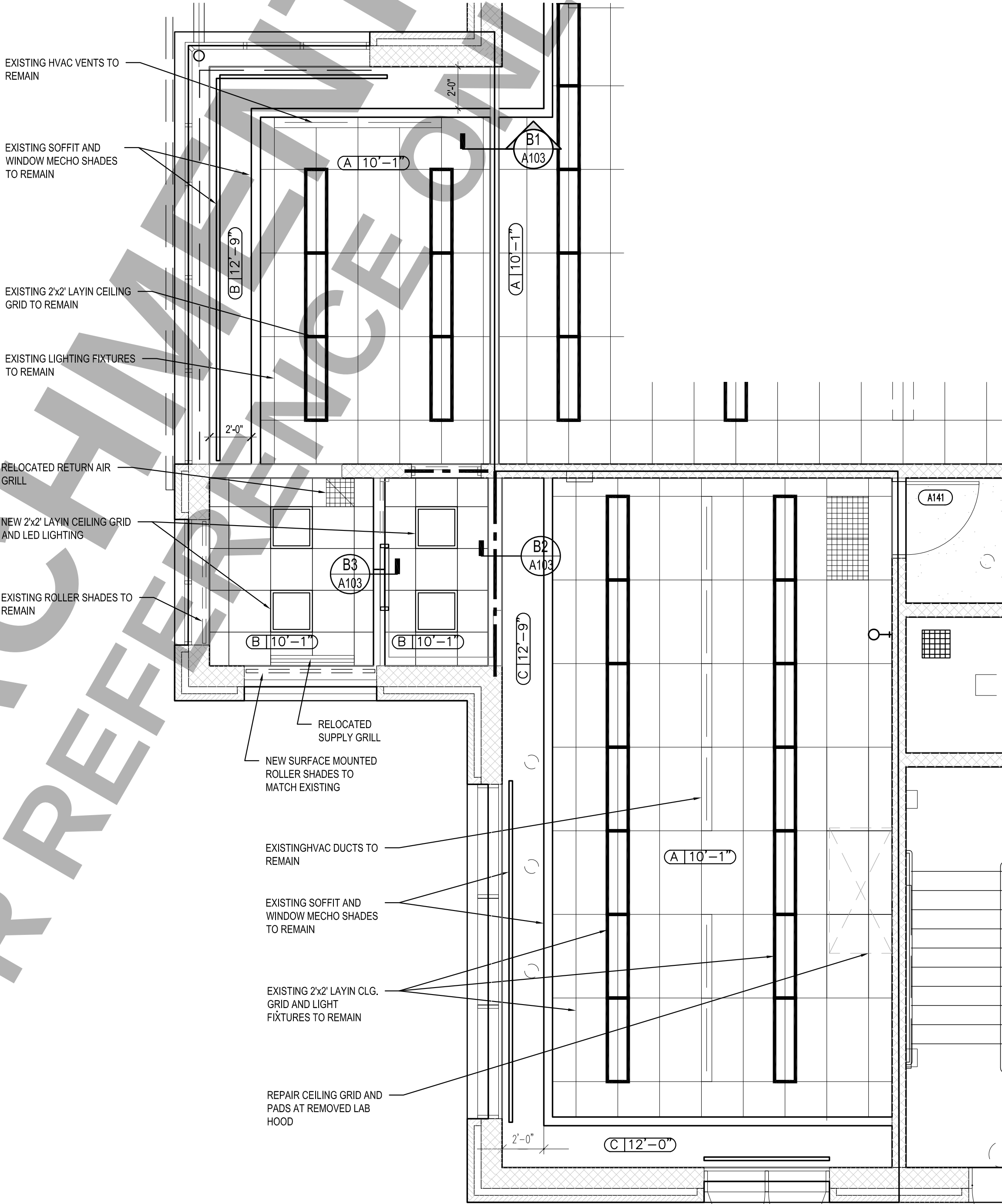
ROOM FINISH SCHEDULE										
ROOM #	LOCATION	FLOOR		WALLS				CEILING		REMARKS
		Base	Finish	North	East	South	West	Material	Finish	
A141	WORK ROOM	B1	CPT-1	P1	P1	P1	P1	?	?	?
A142	OFF.	B1	CPT-1	P1	P1	P1	P1	?	?	?
A143	CONF.	B1	CPT-1	P1	P1	P1	P1	?	?	?

DOOR AND FRAME SCHEDULE													
Door	Suffix	Location	DOOR			FRAME		FIRE	HDW	DETAILS			Remarks
			Size	Type	Material	Type	Material			RATE	SETS	Head	
A142		OFF.	3'-0" x 8'-0" x 1 3/4"	D1	ALUM	--	ALUM		H1	H1	J1		REINSTALLED SALVAGED ALUM STOREFRONT
A143		CONF.	3'-0" x 8'-0" x 1 3/4"	D1	ALUM	--	ALUM		H2	H2	J2		NEW ALUM STOREFRONT DOOR SYSTEM

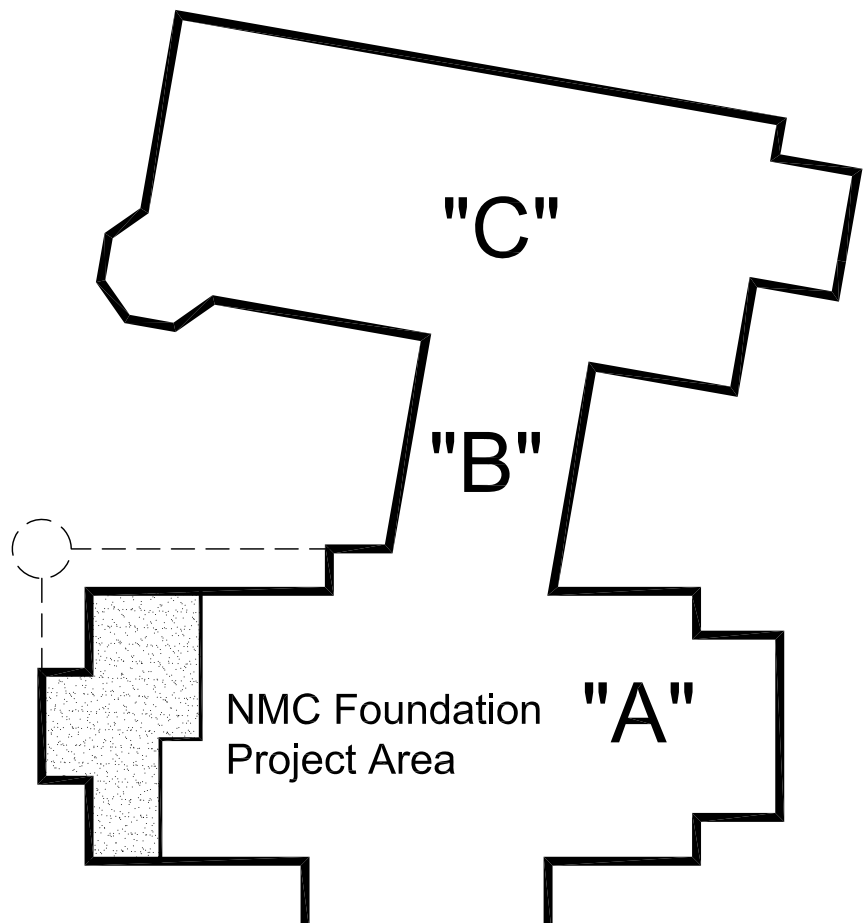
FINISH LEGEND:				
Mark:	Location:	Product:	Manufacturer:	Remarks:
CPT-1	Refer to Plans	Carpet	Refer to Specifications	
B-2	Refer to Plans	Rubber Base	Refer to Specifications	
PT-1	Walls/Bulkheads	Field Paint	Refer to Specifications	
PT-2	Walls/Bulkheads	Accent Paint	Refer to Specifications	
ACT	See Reflected Ceiling Plans	Suspended Acoustic Ceiling	Refer to Specifications	



FURNITURE PLAN
SCALE: 1/4" = 1'-0"



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



KEY - PLAN
N.T.S.

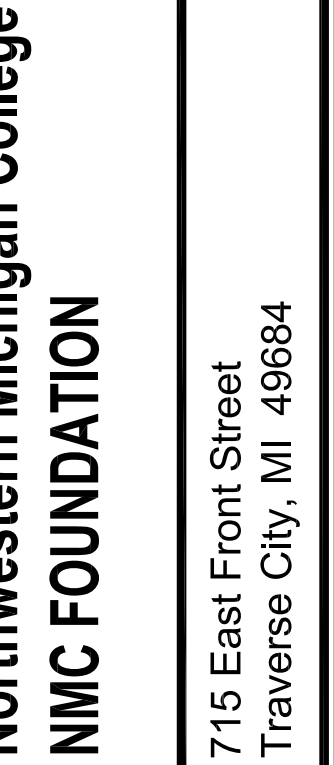
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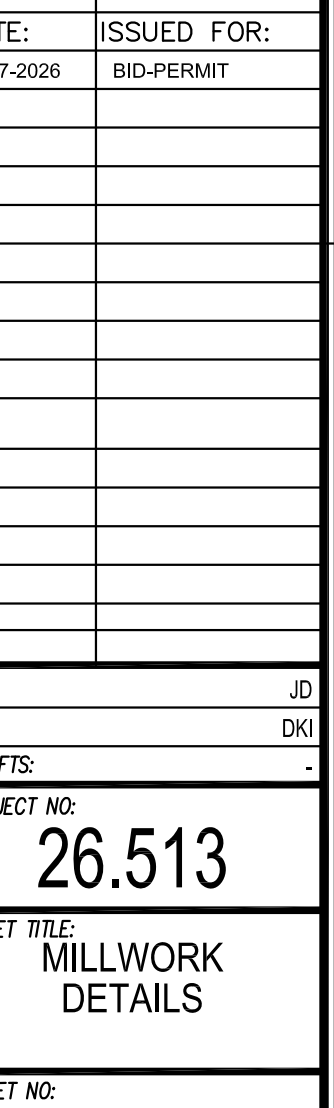
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DATE: 07-17-2026
ISSUED FOR: BID-PERMIT
PROJECT NO: 26.513
SHEET TITLE: FINISH PLAN
CEILING PLAN
FURNITURE PLAN
SHEET NO: A102

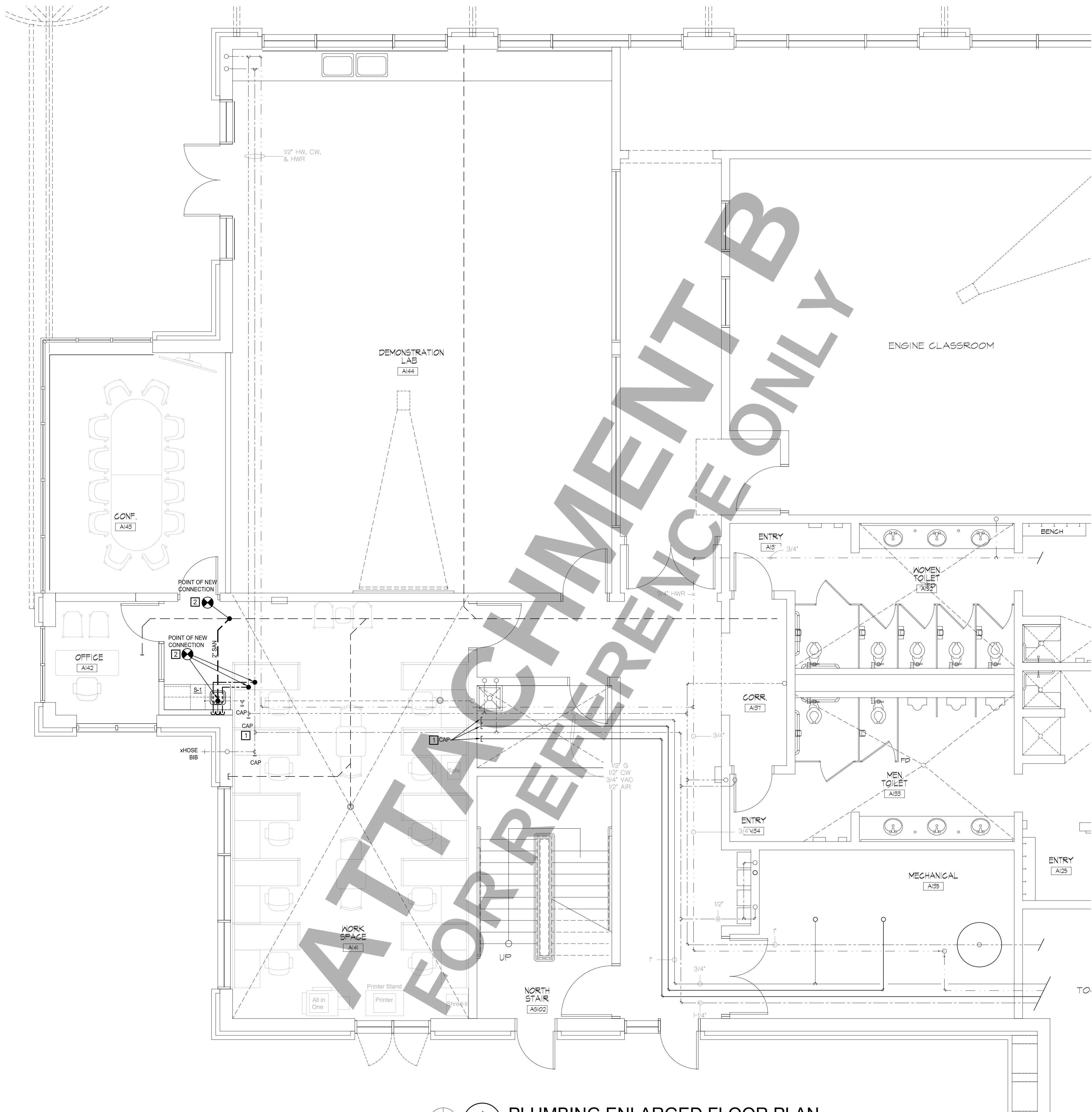


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A103





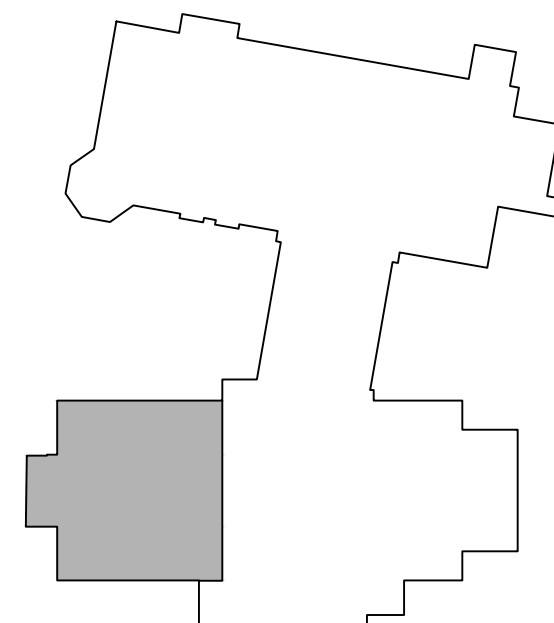
GENERAL FIRE PROTECTION NOTES

1. THE FIRE PROTECTION SYSTEM SHALL BE A COMPLETE DESIGN/BUILD SYSTEM BY THE FIRE SUPPRESSION CONTRACTOR. WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, PROVIDING ALL DESIGN, ENGINEERING AND ASSOCIATED COSTS, CALCULATIONS, LABOR, MATERIALS, SUPERVISION, TESTING, PERMITS AND APPROVALS REQUIRED TO DESIGN, INSTALL AND OBTAIN FINAL ACCEPTANCE OF THE AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM COMPLETE IN ALL RESPECTS.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 & NFPA 25, AS WELL AS ALL APPLICABLE PORTIONS OF THE MICHIGAN BUILDING CODES AND ALL LOCAL CODES.
3. THE EXISTING FIRE PROTECTION SYSTEM SHALL BE RECONFIGURED AS NECESSARY TO PROVIDE FULL AND COMPLETE COVERAGE OF ALL RENOVATED AREAS AND SHALL BE COMPATIBLE WITH THE CONTRACT DOCUMENT CEILING AND WALL LAYOUTS AND AVOID INTERFERENCE WITH WORK OF ALL OTHER TRADES IN THE BUILDING. CONTRACTOR SHALL PROVIDE OFFSETS AS NEEDED TO AVOID OTHER TRADES, INCLUDING BUT NOT LIMITED TO MECHANICAL DUCTWORK, STRUCTURAL ELEMENTS AND LIGHTING.
4. INSTALL AND TEST FIRE PROTECTION SYSTEM IN FULL CONFORMITY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES, NFPA STANDARDS AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
5. HVAC AND LIGHTING INSTALLATIONS SHALL TAKE PRECEDENCE OVER SPRINKLER PIPE AND DEVICE, ROUTING AND LOCATIONS. SPRINKLERS SHALL NOT BE LOCATED BELOW HVAC EQUIPMENT DUE TO MAINTENANCE ACCESS REQUIREMENTS.
6. FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE ALL ASPECTS OF WORK WITH OTHER TRADES PRIOR TO CONSTRUCTION/INSTALLATION.
7. SPRINKLER LAYOUT SHALL BE SUCH THAT THE INSTALLATION OF SPRINKLERS SHALL BE ALIGNED IN EACH DIRECTION, AND SPRINKLER SHALL NOT BE CLOSER THAN 6" TO A SUSPENDED CEILING T-BAR (IN ANY DIRECTION).
8. REFER TO THE ARCHITECTURAL CEILING PLANS FOR CEILING HEIGHTS AND TYPES (LAY-IN, EXPOSED, GYPSUM BOARD, ETC).

KEYED PLAN NOTES



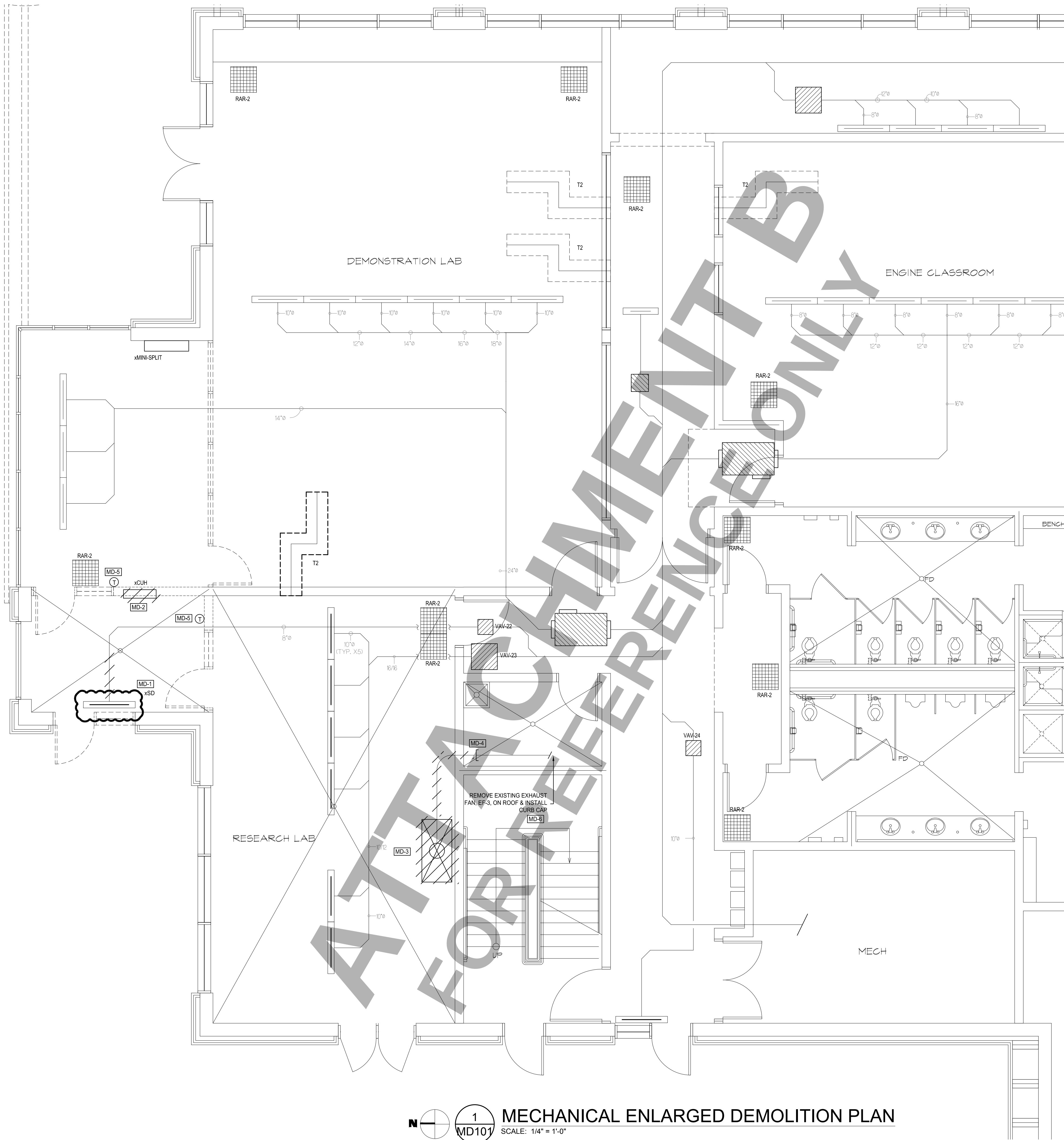
1. PROVIDE END CAP ON PIPING SYSTEMS WHERE INDICATED.
2. POINT OF NEW CONNECTION. VERIFY EXISTING PIPING LOCATIONS PRIOR TO COMMENCING WORK.



KEY PLAN
NO SCALE

1 PLUMBING ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

DATE:	ISSUED FOR:
07-10-2026	PROGRESS SET
07-17-2026	BIDS/PERMIT
PIC:	DAR
FM:	DAR
DRAFTS:	DAR
PROJECT NO:	26.513
SHEET TITLE:	PLUMBING ENLARGED FLOOR PLAN
SHEET NO:	P101



MECHANICAL DEMOLITION NOTES

1.

EQUIPMENT, PIPING, DUCTWORK, ETC., TAGGED WITH A PRECEDING "EX," OR "X" OR "EXTG" ARE EXISTING.

2.

BEFORE COMMENCING WORK ENSURE GAS IS OFF, AND ELECTRICAL POWER IS TURNED OFF TO THE EXISTING EQUIPMENT.

3.

THE MECHANICAL CONTRACTOR SHALL REMOVE ALL ITEMS INDICATED AND SHALL BE RESPONSIBLE FOR THEIR DISPOSAL PER LOCAL, STATE AND FEDERAL REGULATIONS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.

4.

THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO DETERMINE IF ANY PARTS OR EQUIPMENT ARE DESIRED TO BE KEPT BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL. ANY ITEM NOT WISHED TO BE RETAINED, SHALL BE DISPOSED OF AT THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

5.

ITEMS HATCHED SHALL BE PERMANENTLY REMOVED.

6.

ITEMS CLOUDED SHALL BE TEMPORARILY REMOVED AND REUSED.

DEMOLITION KEYED NOTES

MD-#

MD-1

DISCONNECT & SALVAGE EXISTING SUPPLY AIR DIFFUSER FOR RE-USE IN NEW OFFICE SPACE. REMOVE AND STORE DIFFUSER UNTIL FINAL CEILING INSTALLATION IS READY. CLEAN DIFFUSER PRIOR TO INSTALLATION.

MD-2

DISCONNECT & REMOVE EXISTING CABINET UNIT HEATER. REMOVE ALL PIPING, WIRING, CONTROLS, AND SUPPORTS. TRACE HOT WATER SUPPLY/RETURN PIPING CONNECTIONS AND REMOVE PIPING, CAPPING BACK AT THE MAINS, REMOVE UNUSED PIPE SUPPORTS.

MD-3

DISCONNECT & REMOVE EXISTING LABORATORY FUME HOOD, COMPLETE. REMOVE GAS PIPING, CONTROLS, WIRING, ETC. FOR COMPLETE REMOVAL.

MD-4

REMOVE EXISTING 14" FUME HOOD EXHAUST DUCTWORK BACK TO ADJACENT JANITOR'S CLOSET AND CAP.

MD-5

REMOVE EXISTING WALL TEMPERATURE SENSOR/CONTROLLER ON WALL TO BE REMOVED. SALVAGE CONTROLLER AND WIRING TO RELOCATE CONTROLLER INTO NEW WALLS. SEE SHEET M101 FOR CONTROLLER LOCATION.

MD-6

REMOVE EXISTING EXHAUST FAN, EF-3, THAT WAS SERVING FUME HOOD. EXHAUST FAN IS LOCATED ON ROOF ABOVE MECHANICAL MEZZANINE. CONTRACTOR SHALL FIELD LOCATE, DISCONNECT, AND REMOVE FAN. PROVIDE A CURB CAP OVER EXISTING ROOF CURB AND SEAL WEATHERTIGHT.

1

MECHANICAL ENLARGED DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

STATE OF MICHIGAN
JASON ALAN VANBROCKLIN
LICENSED PROFESSIONAL ENGINEER
License No. 6201050030
#6201050030 7/11/26

KEY PLAN

NO SCALE

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07-17-2026

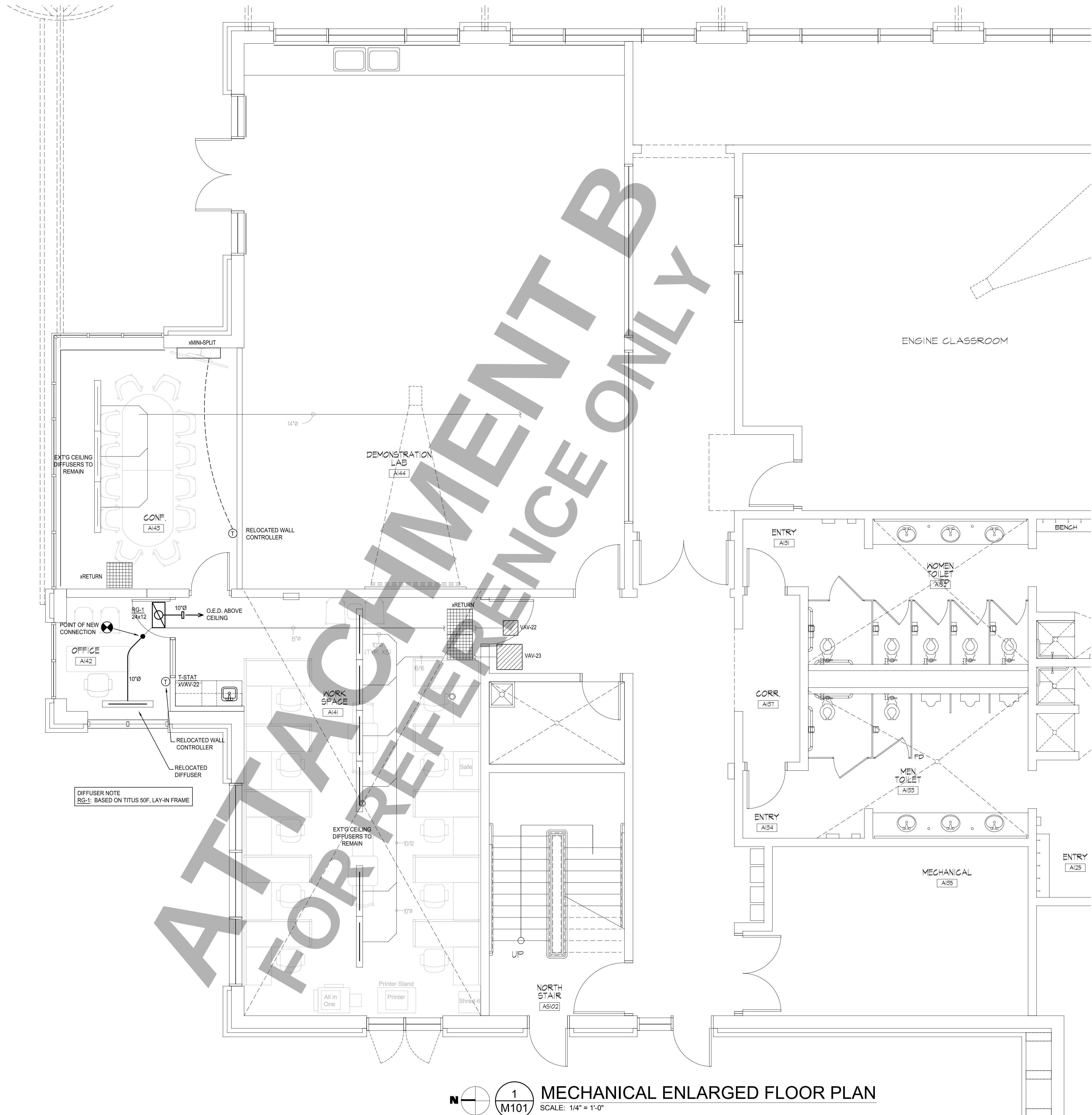
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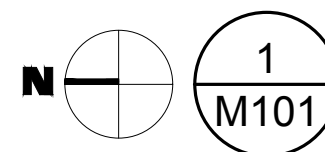
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SHEET TITLE: MECHANICAL ENLARGED DEMO FLOOR PLAN

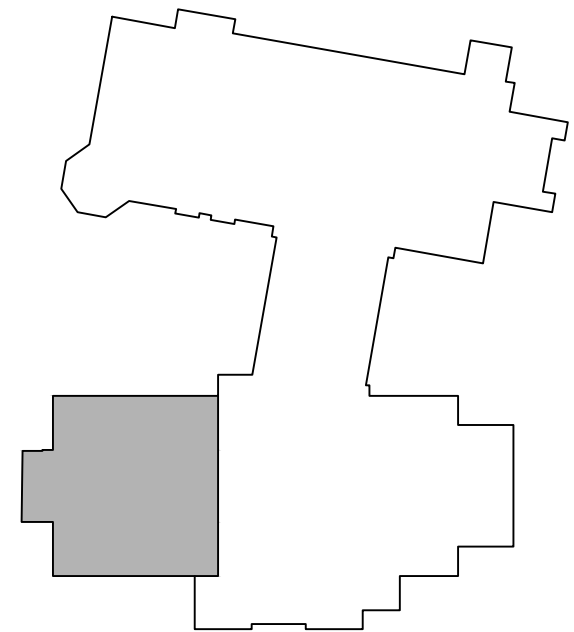
SHEET NO: MD101



DIFFUSER NOTE
RG-1: BASED ON TITUS 50F, LAY-IN FRAME



MECHANICAL ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



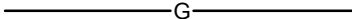
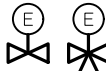
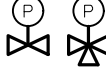
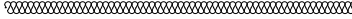
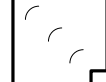
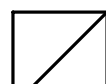
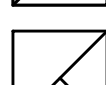
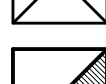
KEY PLAN
NO SCALE



MECHANICAL SPECIFICATIONS	
SECTION	
23 00 00	1. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL COMPLY WITH THE LATEST EDITION OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, ORDINANCES, LAWS, AND REGULATIONS IN EFFECT AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ) AS OF THE DATE OF PERMIT APPLICATION, INCLUDING BUT NOT LIMITED TO: 1.1. MICHIGAN MECHANICAL CODE (M.M.C.) 1.2. MICHIGAN PLUMBING CODE (M.P.C.) 1.3. MICHIGAN BUILDING CODE (M.B.C.) 1.4. MICHIGAN UNIFORM EJECTORY CODE, INCLUDING ASHRAE 90.1, ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS, AS ADOPTED AND AMENDED BY THE STATE OF MICHIGAN 1.5. ASHRAE 62.1, VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY, AS ADOPTED AND AMENDED BY THE STATE OF MICHIGAN 1.6. INTERNATIONAL FUEL GAS CODE (I.F.G.C.), AS ADOPTED AND AMENDED BY THE STATE OF MICHIGAN 1.7. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) 1.8. AMERICANS WITH DISABILITIES ACT (ADA) AND ICC A117.1 1.9. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS AS ADOPTED BY THE LOCAL AHJ 1.10. WHERE A CONFLICT EXISTS BETWEEN CODES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN, UNLESS DIRECTED OTHERWISE IN WRITING BY THE AHJ. 2. ALL MATERIALS USED SHALL BE NEW AND UNDamaged. 3. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP. 4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ROUTING, AND UTILITIES PRIOR TO SUBMITTING BID AND PRIOR TO COMMENCING WORK. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD IN WRITING PRIOR TO PROCEEDING WITH THE AFFECTED WORK. THE CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR CONDITIONS THAT WERE REASONABLY DISCOVERABLE THROUGH FIELD VERIFICATION AND WERE NOT REPORTED PRIOR TO INSTALLATION. 5. LABEL PIPING AND EQUIPMENT USING PROFESSIONAL MARKERS PER THE LATEST VERSION OF ASME A13.1: 5.1. PROVIDE PROFESSIONAL PIPE STICKERS ON ALL NEW PIPING 1" AND GREATER IDENTIFYING TYPE AND DIRECTION OF FLOW. 5.2. PROVIDE PROFESSIONAL ENGRAVED PLASTIC EQUIPMENT NAMEPLATES FOR ALL HVAC EQUIPMENT IDENTIFYING EQUIPMENT TAG AND NUMBER. SEE PLANS FOR EQUIPMENT TAG NUMBERS (FOR EXAMPLE, B-1, P-1, AHU-1, ETC.) 6. FURNISH ALL ACCESS DOORS (RATED OR NON-RATED AS REQUIRED) WHERE VALVES, DAMPERS, OR EQUIPMENT ARE CONCEALED BEHIND A NON-ACCESSIBLE CEILING OR WALL. FURNISH ACCESS DOORS TO GENERAL CONTRACTOR FOR INSTALLATION. 7. FURNISH STEEL SLEEVES WHERE PIPES PENETRATE RATED WALLS, FLOORS, OR ASSEMBLIES. PROVIDE FIRESTOPPING MATERIALS AND SYSTEM TO MAINTAIN THE REQUIRED RATING OF THE ASSEMBLY PENETRATED. PROVIDE SHOP DRAWINGS SHOWING LISTING AND RATINGS OF FIRESTOPPING MATERIALS. 8. ALL MANUFACTURED EQUIPMENT, ACCESSORIES AND MATERIALS SHALL BE USED AS INTENDED BY THE MANUFACTURER, IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS. 9. THE CONTRACTOR SHALL PROVIDE, IN ADDITION TO ANY OTHER WARRANTIES SPECIFIED, A MINIMUM ONE (1) YEAR FULL LABOR AND MATERIAL WARRANTY ON ALL WORKMANSHIP, MATERIALS, AND EQUIPMENT FURNISHED FOR THIS PROJECT, COMMENCING AT SUBSTANTIAL COMPLETION. THIS WARRANTY IS IN ADDITION TO, AND DOES NOT LIMIT, ANY MANUFACTURER'S WARRANTY OR ANY WARRANTY PERIOD STATED IN THE GENERAL CONDITIONS OF THE CONTRACT. 10. APPROVED EQUALS: MECHANICAL EQUIPMENT MANUFACTURED BY A COMPANY OTHER THAN THAT SPECIFIED IN THE SCHEDULE MAY BE SUBSTITUTED, SUBJECT TO APPROVAL OF SHOP DRAWINGS, AND CONSENT UPON MEETING THE DESIGN, APPEARANCE, AND FUNCTIONAL STANDARDS ESTABLISHED BY THE ORIGINALLY SPECIFIED ITEM(S). THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, CLEARANCES, ASSEMBLY, FIT, AND COMPATIBILITY OF THE APPROVED EQUAL(S) AND THEIR EFFECT ON OTHER EQUIPMENT, FIT, AND OPERATION. THE MECHANICAL CONTRACTOR IS LIABLE FOR ANY ADDED COSTS TO ITSELF OR OTHER TRADES CAUSED BY THE USE OF APPROVED EQUALS. 11. THE CONTRACTOR SHALL PROTECT ALL INSTALLED EQUIPMENT, DUCTWORK, AND PIPING FROM PHYSICAL DAMAGE, MOISTURE, DEBRIS, AND CONTAMINATION DURING CONSTRUCTION. OPEN ENDS OF DUCTWORK AND PIPING SHALL BE CAPPED OR SEALED TO PREVENT WORK DEBRIS FROM INGRESS. PRIOR TO SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL CLEAN ALL INSTALLED EQUIPMENT, DUCTWORK INTERIORS, AND ACCESSIBLE SURFACES OF CONSTRUCTION DEBRIS AND RESIDUE. 12. UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS, THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR MECHANICAL AND PLUMBING WORK, AND SHALL SCHEDULE ALL REQUIRED INSPECTIONS WITH THE AHJ IN A TIMELY MANNER SO AS NOT TO DELAY THE PROJECT SCHEDULE. 13. SUBMITTALS 13.1. FURNISH SHOP DRAWINGS TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO PLACING DELIVERY ORDERS. PROVIDE SHOP DRAWINGS OF ALL MANUFACTURED EQUIPMENT AND MATERIALS EXCEPT PIPE, PIPE FITTINGS, AND GALVANIZED DUCTWORK. 13.2. AT SUBSTANTIAL COMPLETION OF CONSTRUCTION, FURNISH AS-BUILT PLANS TO ARCHITECT/ENGINEER FOR APPROVAL. AT THE TIME OF PROJECT CLOSEOUT, APPROVED AS-BUILT PLANS SHALL BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE, AS A MINIMUM, THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.
23 05 93	1. THE MECHANICAL CONTRACTOR SHALL SUBCONTRACT A TEST AND BALANCE CONTRACTOR TO BALANCE THE SYSTEMS DESCRIBED BELOW. 2. THE BALANCING SHALL BE COMPLETED BY AN INDEPENDENT TEST AND BALANCE CONTRACTOR WHO IS NOT AN EMPLOYEE OF THE MECHANICAL CONTRACTOR. 3. PER COMPLIANCE WITH THE CURRENTLY ENFORCED VERSION OF ASHRAE 90.1, THE BALANCER SHALL SUBMIT AN AIR BALANCE REPORT TO THE ENGINEER AND STATE OR COUNTY INSPECTOR. 4. THE BALANCE REPORT SHALL SHOW PROOF THAT THE SYSTEM HAS BEEN BALANCED TO +/- 10% OF THE DESIGNED FLOW RATE. IT IS THE MECHANICAL CONTRACTOR AND TEST AND BALANCER'S DUTY TO PROVIDE ACCURATE DATA IN ORDER TO DISCLOSE DEVARIANT RESULTS TO THE ENGINEER, INSPECTOR, AND OWNER. 5. ALL AIRSIDE SYSTEMS, COMPONENTS, ETC. INCLUDING SUPPLY, RETURN, OUTDOOR, AND EXHAUST AIR SYSTEMS SHALL BE BALANCED. THE BALANCER SHALL PROVIDE SHEAVES AND BELTS AS NEEDED TO PROPERLY BALANCE EQUIPMENT TO +/- 10% OF THE DESIGNED AIRFLOWS. ALL DIFFUSERS, REGISTERS, GRILLES, AND LOUVERS SHALL BE INDIVIDUALLY BALANCED AND LISTED IN THE BALANCE REPORT. ALL AIRSIDE EQUIPMENT, SUPPLY, RETURN, AND OUTDOOR AIR FLOW RATES SHALL BE LISTED IN THE BALANCE REPORT.
23 07 13	1. ALL DUCTWORK SHALL HAVE MINIMUM INSULATION PER ASHRAE 90.1-2013 TABLE 6.8.2.B. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MIMA NATIONAL INSULATION STANDARDS AND MANUFACTURER'S INSTRUCTIONS. 2. ALL INSULATION MATERIALS SHALL HAVE SURFACE BURNING CHARACTERISTICS TESTING: FLEAME, FUME SPM READINGS, AND RESIDUE. THE BALANCER SHALL BE TESTED IN ACCORDANCE WITH ASTM E84, OR UL 723. 3. GLASS FIBER, FLEXIBLE INSULATION 3.1. ALL INSULATION IN RETURN AIR PLENUMS SHALL BE FORMALDEHYDE-FREE. 3.2. ASTM C553, FLEXIBLE, NONCOMBUSTIBLE BLANKET. 3.2.1. "K" (KSI) VALUE: 0.36 AT 75 DEGREES F (0.052 AT 24 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASTM C518. 3.2.2. MAXIMUM SERVICE TEMPERATURE: 250 DEGREES F (121 DEGREES C). 3.2.3. MAXIMUM WATER VAPOR SORPTION: 5.0 PERCENT BY WEIGHT. 3.3. VAPOR BARRIER JACKET 3.3.1. KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. 3.3.2. MOISTURE VAPOR PERMEANCE: 0.02 PERM, WHEN TESTED IN ACCORDANCE WITH ASTM E96/E96M. 3.3.3. SECURE WITH PRESSURE SENSITIVE TAPE. 4. MINIMUM SUPPLY AIR DUCT INSULATION: R-3.5
23 31 00	1. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN COMPLIANCE WITH THE CURRENTLY ENFORCED M.M.C. CHAPTER 6 AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. ALL DUCTWORK SHALL BE SEALED AND INSULATED IN ACCORDANCE WITH THE LATEST VERSION OF ASHRAE 90.1 2. ROUND FLEX DUCT SHALL BE USED FOR DIFFUSER-GRILLE CONNECTIONS ABOVE LAY-IN CEILINGS. FLEX DUCT MAY BE USED IN OTHER AREAS WHERE THE DUCT AND GRILLE ARE PERMANENTLY AND REASONABLY ACCESSIBLE. MAXIMUM FLEX DUCT LENGTH IS 6'-0". PERFORMANCE OF FLEXIBLE DUCT SHALL MEET OR EXCEED THE RIGID DUCTWORK.
HVAC DUCTS AND CASINGS	

ABBREVIATIONS			
AAV	AIR ADMITTANCE VALVE	HWR	HEATING WATER RETURN
ADA	AMERICAN DISABILITIES ACT	HPWS	HEAT PUMP WATER SUPPLY
ADJ	ADJUSTABLE	HPWR	HEAT PUMP WATER RETURN
AF	ABOVE ROUGH FLOOR	IE	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
AL	ACOUSTICALLY LINED (DUCTWORK)	LBS	POUNDS
APD	AIR PRESSURE DROP	LP	LIQUID PROPANE
AS	AIR SEPARATOR	LWT	LEAVING WATER TEMPERATURE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MBH	THOUSAND BTU PER HOUR
		MC	MECHANICAL CONTRACTOR
AV	AIR VENT	MBC	MICHIGAN BUILDING CODE
ABV	ABOVE	MMC	MICHIGAN MECHANICAL CODE
BDD	BACK-DRAFT DAMPER	MOT. D	MOTORIZED DAMPER
BG	BELOW GRADE	N.C.	NOISE CRITERIA
BO(x)	BOTTOM OF UNIT, REGISTER(R), GRILLE(G), PIPE (P), ETC.	NC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION, LIFE SAFETY CODE
BTUH	BTU PER HOUR	NG	NATURAL GAS
BV	BALANCING VALVE	NIC	NOT IN CONTRACT
CFH	CUBIC FEET PER HOUR	NO	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	OA	OUTDOOR AIR DUCT
CLG	COOLING	OBD	OPPOSED BLADE DAMPER
COND	CONDENSATE	OED	OPEN ENDED DUCT
CS	CIRCUIT SETTER	PRV	PRESSURE REDUCING VALVE
CU	CONDENSING UNIT	RA	RETURN AIR DUCT
CW	DOMESTIC COLD WATER	RC	RAIN CONDUCTOR
CWR	CHILLED WATER RETURN	RH	RELATIVE HUMIDITY
CWS	CHILLED WATER SUPPLY	RO	ROUGH OPENING
DB	DRY BULB	REF	REFRIGERANT PIPING
DN	DOWN	RG	RETURN AIR GRILLE
EA	EXHAUST AIR DUCT	SA	SUPPLY AIR DUCT
EAT	ENTERING AIR TEMPERATURE	SAN	SANITARY WASTE
EAC	ELECTRICAL CONTRACTOR	SF	SQUARE FEET
EF	EXHAUST AIR FAN	SD	SUPPLY AIR DIFFUSER
ELEC	ELECTRICAL	SMKD	SMOKE DAMPER
EQUIP	EQUIPMENT	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE	SPKR	SPRINKLER
ET	EXPANSION TANK	SR	SUPPLY AIR REGISTER
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
EX	EXISTING (ALSO: "EXT'G", "x")	STM	STEAM PIPING
EXH	EXHAUST (AIR)	TBD	TO BE DETERMINED (DURING CONSTRUCTION)
EG	EXHAUST AIR GRILLE	TO	TOP OF...(DUCT, PIPE, ETC.)
FOO	FLOOR CLEAN OUT	TPV	TRAP PRIMER VALVE
FD	FIRE DAMPER (1 OR 2 HOUR)	TSP	TOTAL STATIC PRESSURE
FLA	FULL LOAD AMPS	T-STAT	THERMOSTAT
FPM	FEET PER MINUTE	TYP	TYPICAL
F/S(D (1 OR 2 HOUR)	COMBINATION FIRE AND SMOKE OR DAMPER	UC	UNDERCUT
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	UG	UNDERGROUND
FV or VIF	FIELD VERIFY or VERIFY IN FIELD	UL	UNITED LABORATORIES TESTING AGENCY
DL	DUCT LINER	UW	UNTREATED WATER
G	GAS, NATURAL GAS OR LP AS NOTED	VAV SYSTEM)	VARIABLE AIR VOLUME (BOX, UNIT,
GA	GAUGE	VFD	VARIABLE FREQUENCY DRIVE
GAL	GALLONS	VD	VOLUME DAMPER
GPH	GALLONS PER HOUR	VIF or FV	VERIFY IN FIELD or FIELD VERIFY
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	WB	WET BULB
GHXS	GROUND HEAT EXCHANGER SUPPLY	WCO	WALL CLEAN OUT
GHR	GROUND HEAT EXCHANGER RETURN	WPD	WATER PRESSURE DROP
HTG	HEATING	ZD	ZONE DAMPER
HW	DOMESTIC HOT WATER		
HWS	HEATING WATER SUPPLY		

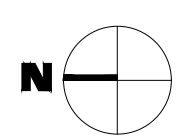
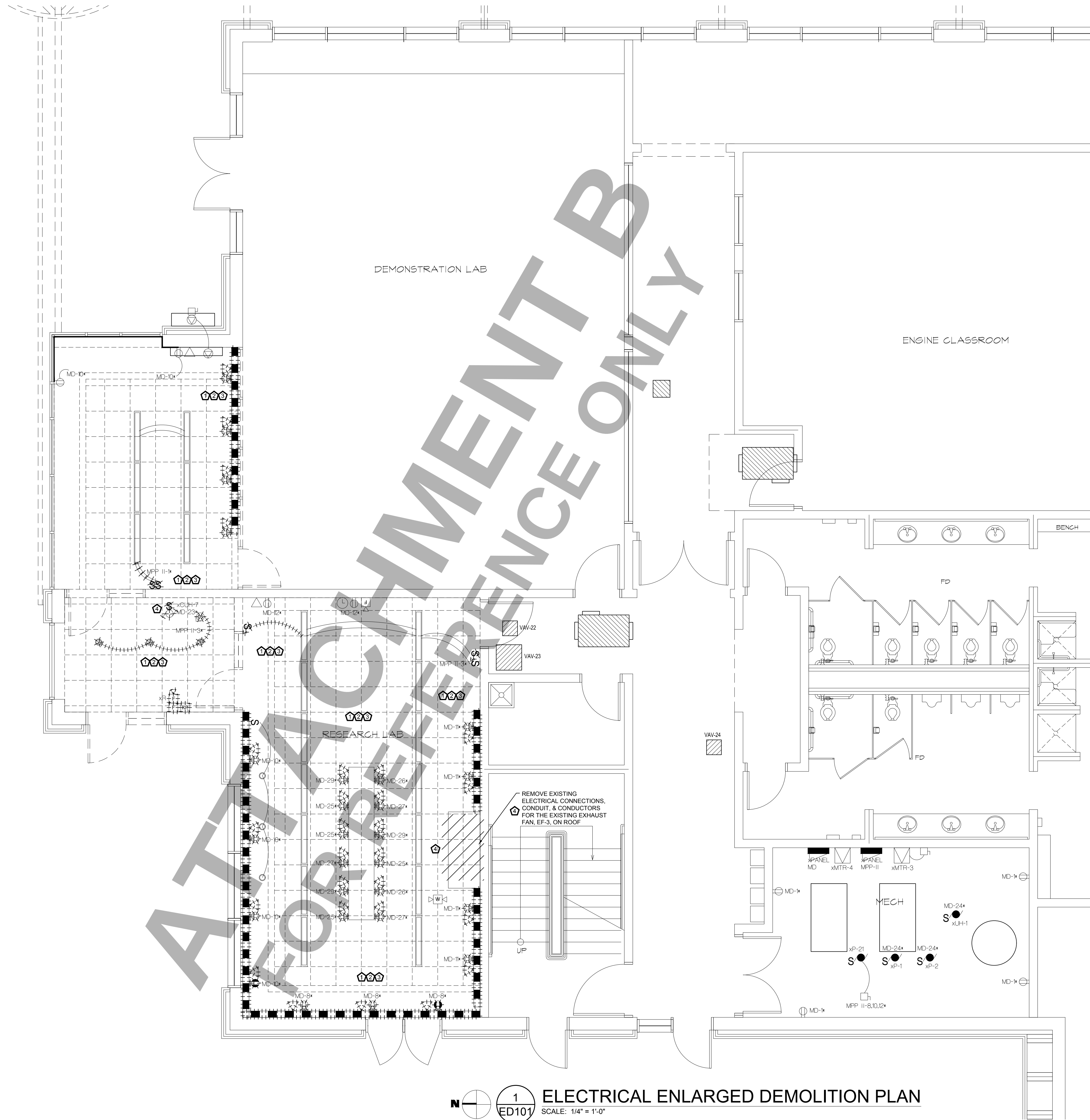
MECHANICAL LEGEND

	CHWS	CHILLED WATER SUPPLY		BALL VALVE, ISOLATION AND SHUT-OFF
	CHWR	CHILLED WATER RETURN		BUTTERFLY VALVE, ISOLATION AND SHUT-OFF
	COND	CONDENSATE PIPING		GLOBE VALVE
	G	NATURAL GAS OR PROPANE		GATE VALVE, ISOLATION AND SHUT-OFF
	HPWS	HEAT PUMP WATER SUPPLY		CIRCUIT SETTER W/ TEST PORTS (CS)
	HPWR	HEAT PUMP WATER RETURN		BALANCING VALVE W/ SHUT-OFF ABILITY AND TEST PORTS (BV)
	HWS	HOT WATER SUPPLY		TRIPLE DUTY VALVE (MULTI-PURPOSE BALANCE, CHECK, SHUT-OFF CAPABILITY W/ TEST PORTS)
	HWR	HOT WATER RETURN		ELECTRONIC-DIGITAL 2-WAY OR 3-WAY MIXING OR DIVERTING VALVE
	REF	REFRIGERANT PIPING		PNEUMATIC 2-WAY OR 3-WAY MIXING OR DIVERTING VALVE
	STM	STEAM PIPING		STRAINER WITH BLOW DOWN
		SOLID ROUND DUCT		STANDARD CHECK VALVE
		FLEX ROUND DUCT		SPRING CHECK VALVE
	TD	THERMOSTAT, T-STAT		FLOW DIRECTION DESIGNATOR
		MANUAL VOLUME DAMPER		PRESSURE GAGE
		NEW-TO-EXISTING CONNECTION		TEMPERATURE GAGE
	E	ENDCAP (DUCT OR PIPING)		FLOW SWITCH
	M	MOTORIZED DAMPER, MOT. D		MANUAL AIR VENT
	BDD	BACKDRAFT DAMPER, BDD		AUTO AIR VENT
		VERTICAL FIRE DAMPER		RELIEF OR SAFETY VALVE
		HORIZONTAL FIRE DAMPER		PRESSURE REDUCING VALVE (PRV)
		DUCT TURNING VANE		DOUBLE BACK FLOW PREVENTER
		SUPPLY AIR DIFFUSER, SD-X		STEAM TRAP
		RETURN AIR GRILLE, RG-X		VIBRATION ABSORBER
		EXHAUST AIR GRILLE, EG-X		PUMP, PLAN VIEW
		EXHAUST AIR FAN, EF-X		AIR SEPARATOR W/ STRAINER & BLOW DOWN
				METER (GAS OR WATER)
				GAS COCK
				GAS SOLENOID VALVE

SPECIAL NOTICE TO CONTRACTORS

1. IT IS RECOMMENDED THAT ALL CONTRACTORS BIDDING THIS PROJECT VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.
2. PRIOR TO CONSTRUCTION, CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF THE FOLLOWING:
 - A. ALL POINTS OF CONNECTION TO BUILDING UTILITIES AND/OR SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, ELECTRICAL, MECHANICAL SYSTEMS, DUCTWORK, EXHAUST/OUTSIDE AIR, SECURITY, FIRE/LIFE SAFETY, DATA, AND PHONE.
 - B. ALL REQUIRED CONNECTIONS TO THE BUILDING STRUCTURE.
 - C. ALL REQUIRED BUILDING PENETRATIONS.
3. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL CONTACT INFORMATION.

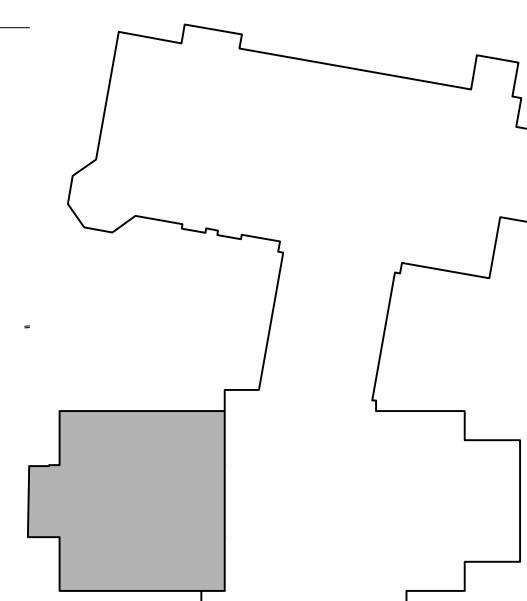




ED101

ELECTRICAL ENLARGED DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

NO SCALE

DATE:	ISSUED FOR:
07-10-2026	PROGRESS SET
07-17-2026	BIDS/PERMIT

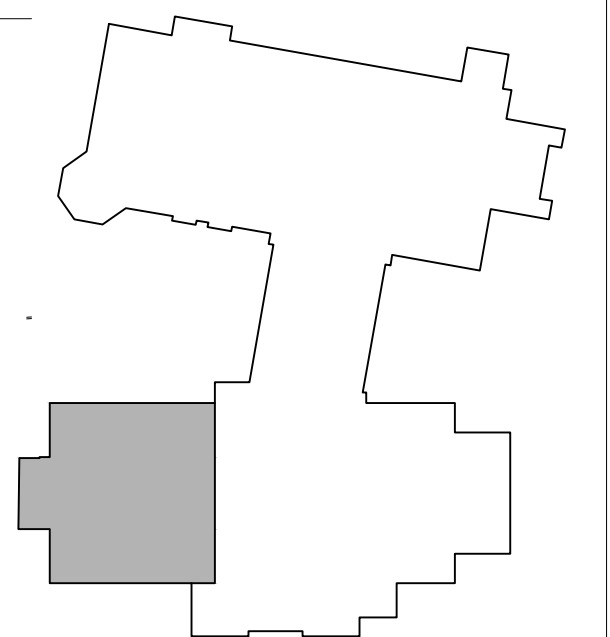
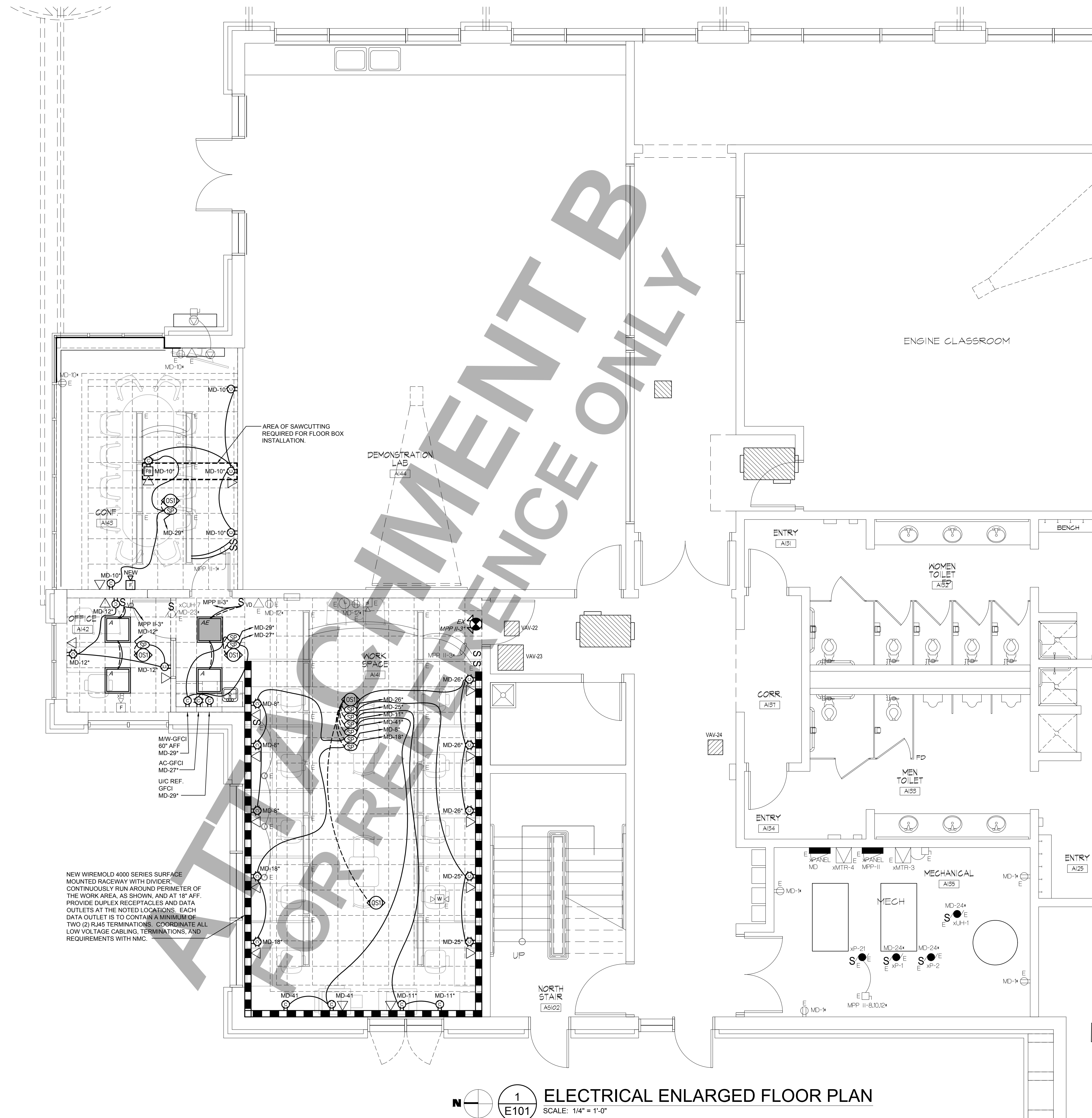
PIC:	JAV
FM:	JAV
DRAFTS:	JAV

PROJECT NO:
26.513

SHEET TITLE:
ELECTRICAL
ENLARGED DEMO
FLOOR PLAN

SHEET NO:

ED101



KEY PLAN

NO SCALE

N   **ELECTRICAL ENLARGED FLOOR PLAN**
SCALE: 1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

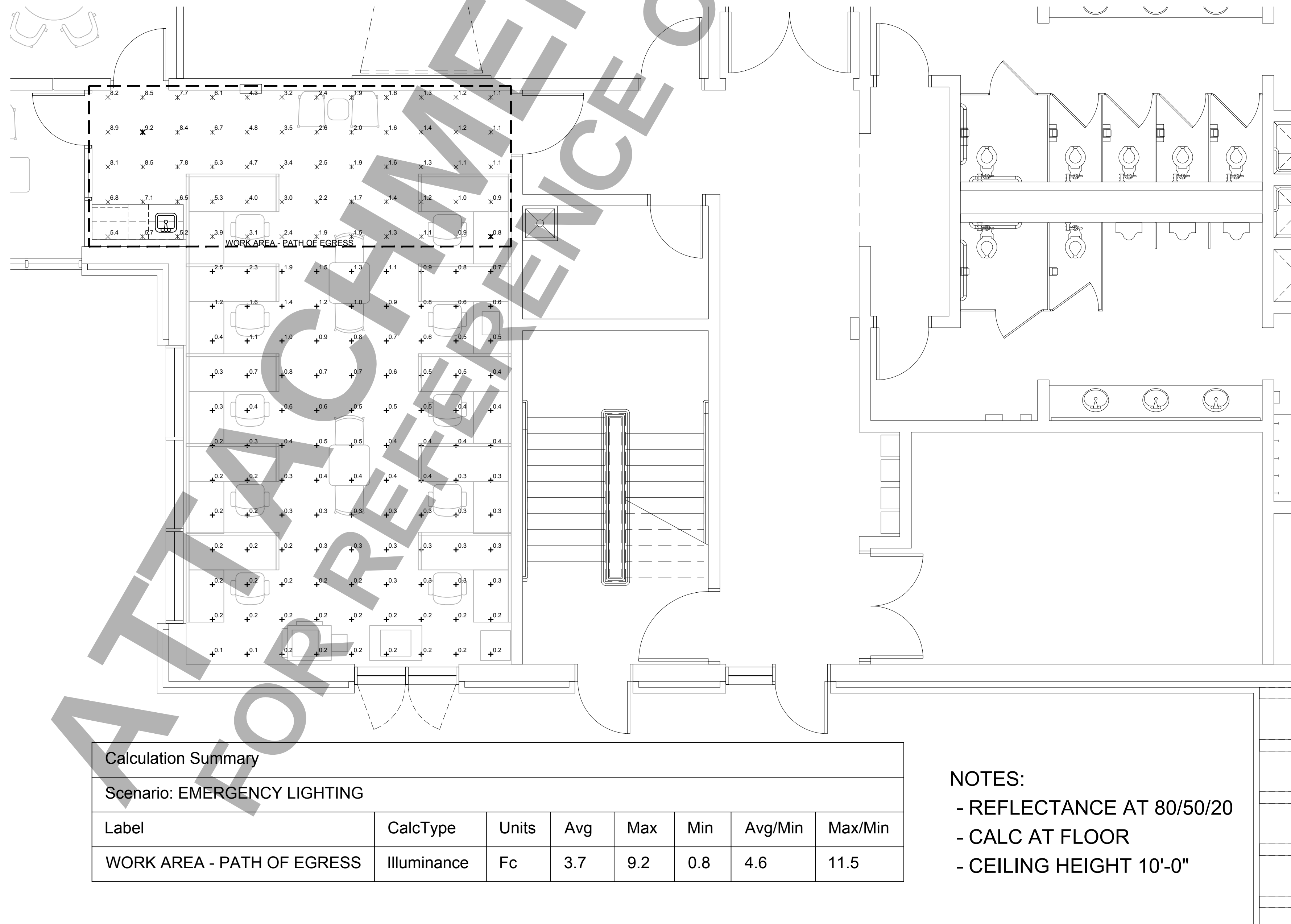
Type	Mount	Description	Lumens	Temp	CRI	Watts	Voit	Dim	Manufacturer	Model #	Notes
A	Recessed	2x2 LED Recessed	4,462	xx	80	33	UNV	0-10v	Metalux	22CZ2-44-UNV-L8xx-CD1-U	Contractor to confirm color temperature with Owner/existing lights
AE	Recessed	2x2 LED Recessed w/Battery	4,462	xx	80	33	UNV	0-10v	Metalux	22CZ2-44-UNV-EL14W-L8xx-CD1-U	Same as type A, except with 14-watt, 90 minute emergency backup battery.
EX	Universal	Exit / Em Combo Unit	---	---	---	---	UNV	---	Isolite	RLP-R-U-WH-MTEB-SD	Combo Unit - Remote Capacity - Red Letters / White Frame.
SP	J-box	20-amp rated Occupancy Sensor Power Pack	N/A	N/A	N/A	N/A	UNV	N/A	Greengate	SP20-MV	Connect to Occupancy Sensors (OS1)
OS1	J-box	Passive Infrared Ceiling Mounted Low Voltage Occupancy Sensor	N/A	N/A	N/A	N/A	UNV	N/A	Greengate	OAC-P-1500	1500 SF. Connect to Switch Pack (SP)

EXT'G PANEL #MD										225A MCB, 120/208V-3PH-4W SURFACE MOUNTED, SQUARE D NQO									
KEY	CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR	KEY									
	1	20/1	RECEPTS - MECHANICAL ROOM	---	A	---	RECEPTS - 111 SOUTH WALL	20/1	2										
	3	20/1	RECEPTS - WOMEN'S RESTROOM	---	B	---	RECEPTS - 111 EAST WALL	20/1	4										
	5	20/1	RECEPTS - 111 WEST WALL	---	C	---	RECEPTS - 111 EAST WALL	20/1	6										
	7	20/1	RECEPTS - 111 EAST WALL	---	A	---	EXTERIOR RECEPT NW	20/1	8										
	9	20/1	RECEPTS - 111 NORTH WALL	---	B	---	112 OFFICE	20/1	10										
	11	20/1	114 OUTSIDE WALL	---	C	---	RECEPTS - 114 EAST WALL	20/1	12										
	13	20/1	RECEPTS - 112 WEST WALL	---	A	---	PHOTO EYE FOR DOCK LIGHTS	20/1	14										
	15	20/1	RECEPTS - 112 NORTH WALL	---	B	---	OUTSIDE COURTYARD	20/1	16										
	17	20/2	RECEPTS - 112 NORTH WALL & PROJECTOR COIL	---	C	---	112 OFFICE	20/1	18										
	19	20/2	PROJECTOR COIL	---	A	---	RECEPTS - ELEVATOR ROOM	20/1	20										
	21	20/1	111 PROJECTOR CEILING	---	B	---	STORE ROOM NEAR 172	20/1	22										
	23	20/1	CABINET HEATER 6/5/7	---	C	---	PUMP 112 MECH ROOM	20/1	24										
	25	20/1	114 COMPUTER LAB	---	A	---	114 COMPUTER LAB	20/1	26										
	27	20/1	114 COMPUTER LAB	---	B	---	HAND DRYER MENS	20/1	28										
	29	30/1	114 COMPUTER LAB	---	C	---	HAND DRYER MENS	20/1	30										
	31	20/1	EWG OUTSIDE MECHANICAL ROOM	---	A	---	EXISTING UNKNOWN CIRCUIT	20/1	32										
	33	20/1	HAND DRYER WOMENS	---	B	---	EXISTING UNKNOWN CIRCUIT	20/1	34										
	35	20/1	HAND DRYER WOMENS	---	C	---	EXISTING UNKNOWN CIRCUIT	20/1	36										
	37	20/1	EXISTING UNKNOWN CIRCUIT	---	A	---	EXISTING UNKNOWN CIRCUIT	20/1	38										
	39	20/1	EXISTING UNKNOWN CIRCUIT	---	B	---	EXISTING UNKNOWN CIRCUIT	20/1	40										
	41	---	SPACE	---	C	---	GENERATOR	20/1	42										

REVISED PANEL #MD										225A MCB, 120/208V-3PH-4W SURFACE MOUNTED, SQUARE D NQO									
KEY	CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR	KEY									
	1	20/1	RECEPTS - MECHANICAL ROOM	---	A	---	RECEPTS - 111 SOUTH WALL	20/1	2										
	3	20/1	RECEPTS - WOMEN'S RESTROOM	---	B	---	RECEPTS - 111 EAST WALL	20/1	4										
	5	20/1	RECEPTS - 111 WEST WALL	---	C	---	RECEPTS - 111 EAST WALL	20/1	6										
	7	20/1	RECEPTS - 111 EAST WALL	---	A	1260	RECEPTS-EXT. NW +A141 NORTHEAST	20/1	8										
	9	20/1	RECEPTS - 111 NORTH WALL	---	B	1440	RECEPTACLES - CONFERENCE ROOM	20/1	10										
	11	20/1	RECEPTS - 141 WEST WALL - PRINTER	1000	C	1080	RECEPTS - 141 EAST + OFFICE A142	20/1	12										
	13	20/1	RECEPTS - 112 WEST WALL	---	A	---	PHOTO EYE FOR DOCK LIGHTS	20/1	14										
	15	20/1	RECEPTS - 112 NORTH WALL	---	B	---	OUTSIDE COURTYARD	20/1	16										
	17	20/2	RECEPTS - 112 NORTH WALL & PROJECTOR COIL	---	C	720	RECEPTS - 141 NORTHWEST	20/1	18										
	19	20/2	PROJECTOR COIL	---	A	---	RECEPTS - ELEVATOR ROOM	20/1	20										
	21	20/1	111 PROJECTOR CEILING	---	B	---	STORE ROOM NEAR 172	20/1	22										
	23	20/1	CABINET HEATER 6/5/7	---	C	---	PUMP 112 MECH ROOM	20/1	24										
	25	20/1	RECEPTS - 141 SOUTHWEST	720	A	1080	RECEPTS - 141 SOUTHEAST	20/1	26										
NG	27	20/1	RECEPTS - 141 KITCHENETTE COUNTER	360	B	---	HAND DRYER MENS	20/1	28										
NG	29	20/1	RECEPTS - 141 KITCHENETTE - REF & MW	1600	C	---	HAND DRYER MENS	20/1	30										
	31	20/1	EWG OUTSIDE MECHANICAL ROOM	---	A	---	EXISTING UNKNOWN CIRCUIT	20/1	32										
	33	20/1	HAND DRYER WOMENS	---	B	---	EXISTING UNKNOWN CIRCUIT	20/1	34										
	35	20/1	HAND DRYER WOMENS	---	C	---	EXISTING UNKNOWN CIRCUIT	20/1	36										
	37	20/1	EXISTING UNKNOWN CIRCUIT	---	A	---	EXISTING UNKNOWN CIRCUIT	20/1	38										
	39	20/1	EXISTING UNKNOWN CIRCUIT	---	B	---	EXISTING UNKNOWN CIRCUIT	20/1	40										
N	41	20/1	RECEPTS - 141 WEST WALL - COPIER	1000	C	---	GENERATOR	20/1	42										

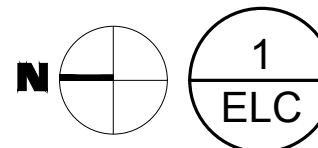
EXT'G PANEL #MPP 2										225A MLO, 480/277V-3PH-4W SURFACE MOUNTED, SQUARE D NF									
KEY	CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR	KEY									
	1	20/1	VAV - 15	---	A	---	VAV - 21	20/1	2										
	3	20/1	SPARE	---	B	---	VAV - 17	20/1	4										
	5	20/1	SPARE	---	A	---	VAV - 26	20/1	6										
	7	20/1	VAV - 20	---	B	---			8										
	9	---	SPACE	---	A	---	SNOW MELT	20/3	10										
	11	---	SPACE	---	B	---			12										
	13	20/1	DOCK LIGHTS	---	A	---			14										
	15	30/1	DOCK LIGHTS	---	B	---	AIR COMPRESSORS	20/3	16										
	17	---	SPACE	---	A	---			18										
	19	---	SPACE	---	B	---			20										
	21	---	SPACE	---	A	---	FIRE JOCKEY PUMP	20/3	22										
	23	---	SPACE	---	B	---			24										
	25	---	SPACE	---	A	---	SPACE	---	26										
	27	---	SPACE	---	B	---	SPACE	---	28										
	29	---	SPACE	---	A	---	SPACE	---	30										
	31	---	SPACE	---	B	---	SPACE	---	32										
	33	---	SPACE	---	A	---	SPACE	---	34										
	35	---	SPACE	---	B	---	SPACE	---	36										
	37	---	SPACE	---	A	---	SPACE	---	38										
	39	100/3	LIGHTING TRANS	---	B	---	SPACE	---	40										
	41	---	SPACE	---	A	---	SPACE	---	42										
	43	---	SPACE	---					44										
	45	---	SPACE	---			LIGHTING TRANS	100/3	46										
	47	---	SPACE	---					48										
	49	---	SPACE	---			SPACE	---	50										
	51	---	SPACE	---			SPACE	---	52										
	53	---	SPACE	---			SPACE	---	54										

REVISED PANEL #MPP 2							225A MLO, 480/277V-3PH-4W SURFACE MOUNTED, SQUARE D N/F						
KEY	CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR	KEY			
	1	20/1	VAV - 15	---	A	---	VAV - 21	20/1	2				
	3	20/1	SPARE	---	B	---	VAV - 17	20/1	4				
	5	20/1	SPARE	---	A	---	VAV - 26	20/1	6				
	7	20/1	VAV - 20	---	B	---			8				
	9	---	SPACE	---	A	---	SNOW MELT	20/3	10				
	11	---	SPACE	---	B	---			12				
	13	20/1	DOCK LIGHTS	---	A	---			14				
	15	30/1	DOCK LIGHTS	---	B	---	AIR COMPRESSORS	20/3	16				
	17	---	SPACE	---	A	---			18				
	19	---	SPACE	---	B	---			20				
	21	---	SPACE	---	A	---	FIRE JOCKEY PUMP	20/3	22				
	23	---	SPACE	---	B	---			24				
	25	---	SPACE	---	A	---	SPACE	---	26				
	27	---	SPACE	---	B	---	SPACE	---	28				
	29	---	SPACE	---	A	---	SPACE	---	30				
	31	---	SPACE	---	B	---	SPACE	---	32				
	33	---	SPACE	---	A	---	SPACE	---	34				
	35	---	SPACE	---	B	---	SPACE	---	36				
	37			---	A	---	SPACE	---	38				
	39	100/3	LIGHTING TRANS		B	---	SPACE	---	40				
	47				A	---	SPACE	---	42				
	43	---	SPACE						44				
	45	---	SPACE				LIGHTING TRANS	100/3	46				
	47	---	SPACE						48				
	49	---	SPACE				SPACE	---	50				
	51	---	SPACE				SPACE	---	52				
	53	---	SPACE				SPACE	---	54				



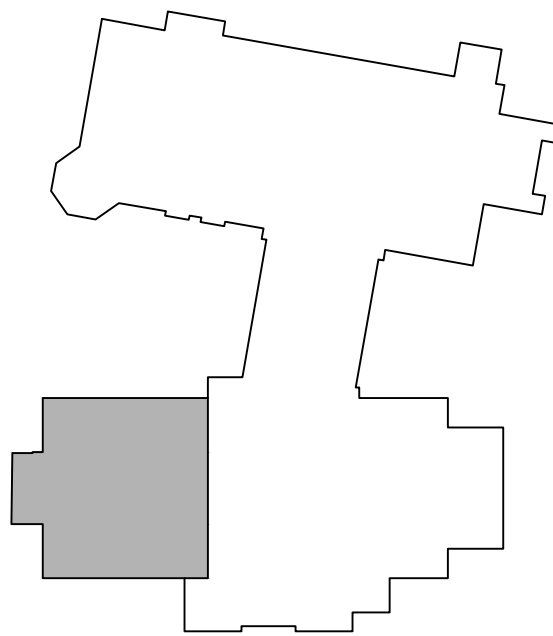
Calculation Summary							
Scenario: EMERGENCY LIGHTING							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
WORK AREA - PATH OF EGRESS	Illuminance	Fc	3.7	9.2	0.8	4.6	11.5

- NOTES:
- REFLECTANCE AT 80/50/20
 - CALC AT FLOOR
 - CEILING HEIGHT 10'-0"



EMERGENCY LIGHTING CALCULATIONS

SCALE: 1/4" = 1'-0"



KEY PLAN

NO SCALE

DATE:	ISSUED FOR:
07-10-2026	PROGRESS SET
07-17-2026	BIDS/PERMIT

PIC:	JAV
FM:	JAV
DRAFTS:	JAV
PROJECT NO:	26.513
SHEET TITLE:	EMERGENCY LIGHTING CALCULATIONS
SHEET NO:	ELC