

# MTU-Dillman Hall Window Replacement

## BID DOCUMENTS

1400 Townsend Dr.  
Houghton, MI 49931

**ZS**  
ARCHITECTURAL ENGINEERING  
10501 West Research Drive, Suite 207  
Milwaukee, Wisconsin 53226  
Phone: (414) 727-5000  
Fax: (414) 727-6666  
www.zsllc-us.com

**OWNER:**

Michigan Technological University  
1400 Townsend Drive  
Houghton, Michigan 49931-1295  
Owner's Representative: Jake Guter  
(tel. 960-360-1757)

**ARCHITECT/ENGINEER:**

ZS LLC  
10501 WEST RESEARCH DRIVE, SUITE 207  
MILWAUKEE, WI 53226



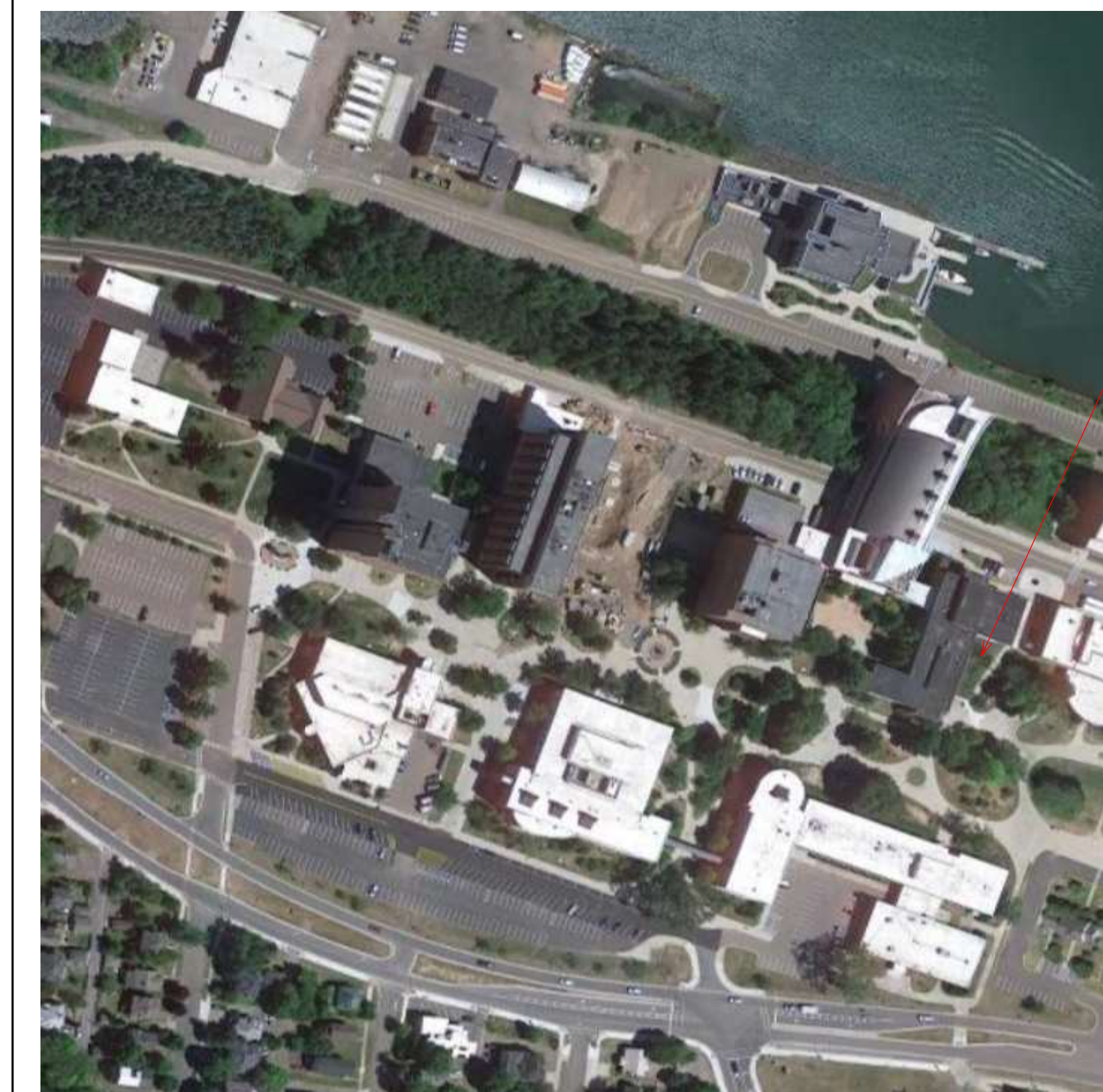
**GENERAL NOTES**

1. DO NOT SCALE DRAWINGS.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT THE JOB SITE PRIOR TO STARTING THE WORK, AND SHALL IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE OF ANY DISCREPANCIES, OMISSIONS, OR OTHER CONDITIONS THAT MAY AFFECT THE SCOPE OF WORK PRIOR TO BEGINNING REPAIRS IMPACTED BY THE NOTED CONDITIONS.
3. CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN FIELD.
4. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT AS REQUIRED TO COMPLETE THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND ASSOCIATED FEES FOR WORK DESCRIBED WITHIN THESE DOCUMENTS.
6. CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE INSURED (INCLUDING WORKERS COMP. LIABILITY, AND AUTO INSURANCE COVERAGE ACCEPTABLE TO THE OWNER) AND LICENSED AS REQUIRED BY THE LOCAL BUILDING AUTHORITY.
7. BUILDING IS TO REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
8. CONSTRUCTION AND CONSTRUCTION-RELATED ACTIVITIES SHALL BE THOROUGHLY COORDINATED WITH THE OWNER'S REPRESENTATIVE AND SHALL NOT BLOCK EXISTING MEANS OF EGRESS. WORK SHALL BE PHASED SO THAT SAFE ACCESS TO AND EGRESS FROM THE BUILDING IS MAINTAINED AT ALL TIMES.
9. UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE COURSE OF THE WORK THAT REQUIRE ADDITIONAL REPAIRS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. NO ADDITIONAL REPAIR WORK SHALL BE PERFORMED UNLESS APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
10. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL JOB SAFETY DURING THE REPAIR WORK.
11. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, AND SHEETING REQUIRED FOR SAFETY AND PROPER EXECUTION OF THE WORK.
12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS. PROCEDURES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. THE CONTRACTOR SHALL MAKE ANY INSPECTIONS OR ANALYSIS NECESSARY TO VERIFY THAT EXISTING BUILDING ELEMENTS HAVE ADEQUATE LOAD CAPACITY TO SUPPORT ANY REQUIRED RIGGING, SHORING, OR STORAGE FORCES HE/SHE CHOOSES TO IMPOSE ON THEM.
13. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT FIRE DURING THE CONSTRUCTION. PROVIDE ADEQUATE VENTILATION DURING THE USE OF VOLATILE OR NOXIOUS MATERIALS.
14. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO THE INTERIOR AND EXTERIOR OF BUILDING, EQUIPMENT OR ADJACENT PROPERTY CAUSED BY THE REPAIR WORK. ANY SUCH DAMAGE SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER PRIOR TO REPAIRING THE DAMAGE. ALL DAMAGE TO INTERIOR OR EXTERIOR OF BUILDING, EQUIPMENT OR PROPERTY MUST BE REPAIRED TO THE SATISFACTION OF THE OWNER OR REPLACED TO MATCH EXISTING.
15. CONTRACTOR SHALL KNOW AND FOLLOW ALL PRECAUTIONS AND SAFETY PROCEDURES AS NORMALLY USED IN THE INDUSTRY, AND THOSE PROCEDURES AS INSTRUCTED BY THE MATERIAL MANUFACTURER, AND ALL LOCAL, STATE, AND FEDERAL REGULATIONS, SAFETY STANDARDS AND CODES. WHEN A CONFLICT EXISTS, COMPLY WITH THE STRICTER REQUIREMENT. THE APPLICATION REQUIREMENTS OF THE U.S. DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), CONSTRUCTION INDUSTRY STANDARDS (29 CFR 1926/1910, CURRENT EDITION), WASHINGTON, D.C. SHALL BE USED AS A STANDARD GUIDELINE.
16. CLEANUP AND DEBRIS REMOVAL SHALL BE UNDERTAKEN DAILY AND SHALL BE SATISFACTORY TO THE OWNER'S REPRESENTATIVE.
17. CONTRACTOR SHALL PROVIDE PROTECTIVE BARRIERS, FENCES, SIDEWALK BRIDGING, ETC. TO ENSURE THE SAFETY OF PEDESTRIANS, BUILDING OCCUPANTS, VEHICULAR TRAFFIC, SITE FEATURES, ETC. IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AND FEDERAL AUTHORITIES, INCLUDING OSHA.
18. CONTRACTOR SHALL PROVIDE PROTECTION OF EXTERIOR WALL AND INTERIOR OF BUILDING AT ALL TIMES AGAINST ENTRY OF WATER, DUST, AND VERMIN DURING THE WORK. CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED BY SUCH INFILTRATION DURING THE WORK AT NO COST TO THE OWNER.
19. THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER SITE WITH MATERIALS OR EQUIPMENT. THE MATERIALS AND EQUIPMENT SHALL BE CONFINED TO THE AREAS INDICATED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE OWNER'S REPRESENTATIVE. DO NOT LOAD STRUCTURE WITH WEIGHT THAT WILL ENDANGER STRUCTURE. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION AND SAFEKEEPING OF PRODUCTS STORED ON PREMISES. MOVE ANY STORED MATERIAL OR PRODUCTS THAT INTERFERE WITH OPERATIONS OF THE OWNER.
20. IF DURING THE INTERIOR REMOVALS, APPARENT ORGANIC GROWTH/MOLD OR ANY OTHER SUSPECTED HEALTH HAZARD IS UNCOVERED, CONTRACTOR IS TO NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION.
21. THESE DRAWINGS AND SPECIFICATIONS APPLY TO THE "MTU - DILLMAN HALL WINDOW REPLACE" PROJECT ONLY AND SHALL NOT BE USED FOR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN CONSENT OF ZS LLC.
22. IN THE EVENT OF CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT AND BETTER QUALITY SHALL GOVERN UNLESS WRITTEN NOTIFICATION IS PROVIDED BY THE ARCHITECT/ENGINEER.

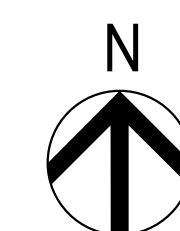
**INDEX OF DRAWINGS:**

Sheet List	
Sheet Number	Sheet Name
A100	TITLE SHEET
A101	SITE PLAN
A102	FIRST FLOOR PLAN
A103	SECOND FLOOR PLAN
A104	THIRD FLOOR PLAN
A105	ELEVATIONS
A200	WINDOW TYPES
A300	SECTIONS AND DETAILS

**LOCATION MAP:**



PROJECT LOCATION



MTU-Dillman Hall Window Replacement

1400 Townsend Dr.  
Houghton, MI 49931

No.	Description	Date

**Owner:**  
Michigan Technological University  
1400 Townsend Drive  
Houghton, Michigan 49931-1295  
Owner's Representative: Jake Guter  
(tel. 960-360-1757)

**TITLE SHEET**

Project number: 237259  
Date: FEBRUARY 6, 2024

**A100**



GENERAL SITE UTILIZATION PLAN NOTES:

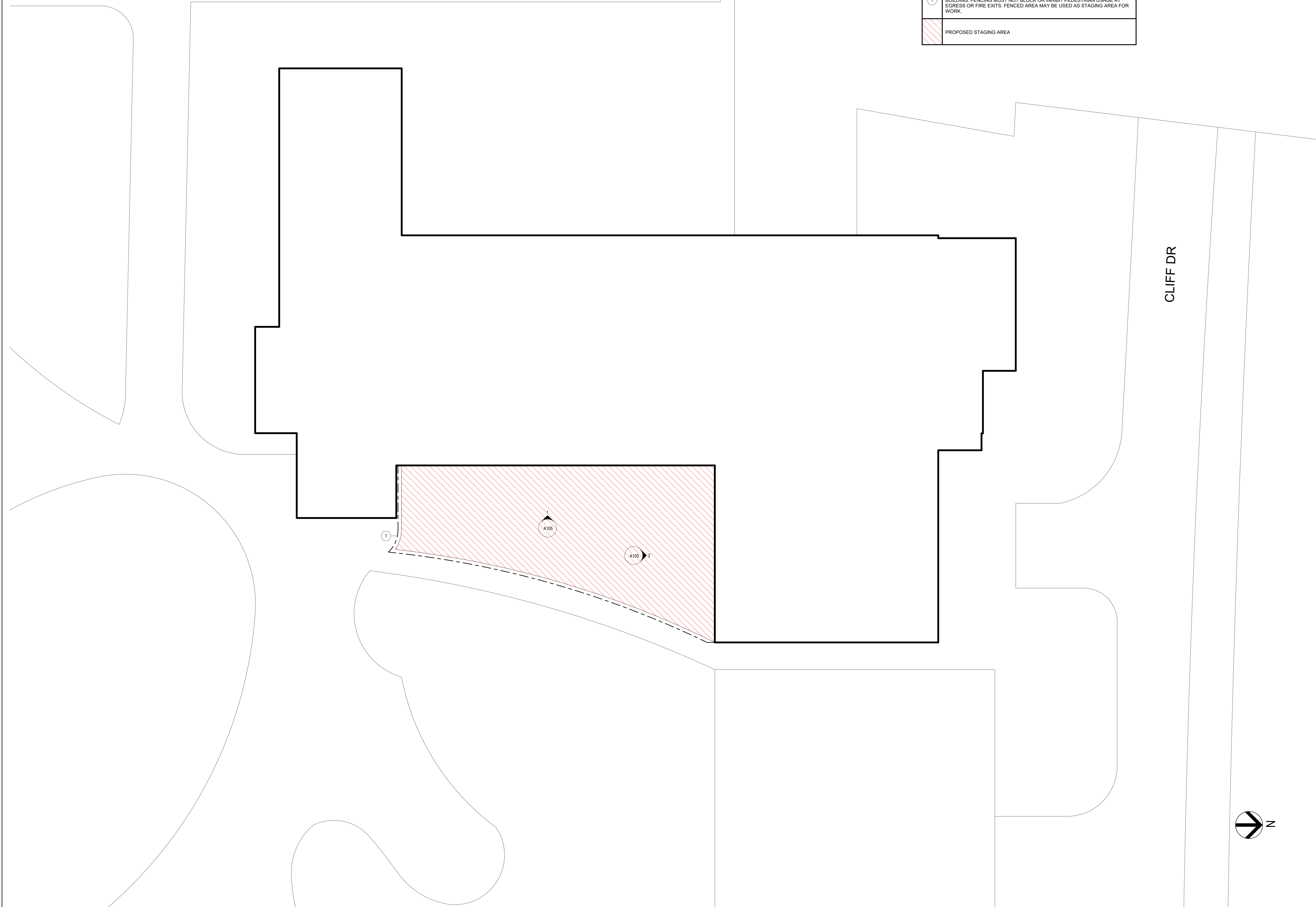
1. THE SITE UTILIZATION PLAN HAS BEEN ASSEMBLED FROM SEVERAL DOCUMENTS, IT IS NOT A SURVEYED PLAN.

KEYNOTE LEGEND	
NO.	DESCRIPTION
1	PROVIDE AND MAINTAIN PROTECTIVE CONSTRUCTION FENCING AS SHOWN. CONSTRUCTION FENCING MUST ALLOW FOR PEDESTRIAN ACCESS TO THE BUILDING. FENCING MUST NOT BLOCK OR INHIBIT PEDESTRIAN USAGE AT EGRESS OR FIRE EXITS. FENCED AREA MAY BE USED AS STAGING AREA FOR WORK.
	PROPOSED STAGING AREA

NOTE IN REGARD TO EXISTING CONDITIONS

INFORMATION SHOWN ON THESE DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE BEST OF OUR KNOWLEDGE, REPRESENT THE GENERAL AND CURRENT FIELD CONDITIONS. ZS MAKES NO WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY AND ALL EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK AND REPORT TO THE AE FOR REVIEW ANY DISCREPANCIES BEFORE PERFORMING ANY WORK. ANY WORK PERFORMED PRIOR TO AE REVIEW AND SUBSEQUENT RESOLUTION OF DISCREPANCIES BY THE AE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE CONTRACT.

ARCHITECTURAL ENGINEERING  
10501 West Research Drive, Suite 207  
Milwaukee, Wisconsin 53226  
Phone: (414) 727-5000  
Fax: (414) 727-6666  
www.zsllc-us.com



MTU-Dillman Hall Window Replacement

1400 Townsend Dr.  
Houghton, MI 49931

No.	Description	Date

**Owner:**  
Michigan Technological University  
1400 Townsend Drive  
Houghton, Michigan 49931-1295  
Owner's Representative: Jake Guter  
(tel. 960-360-1757)

SITE PLAN

Project number: 237259  
Date: FEBRUARY 6, 2024

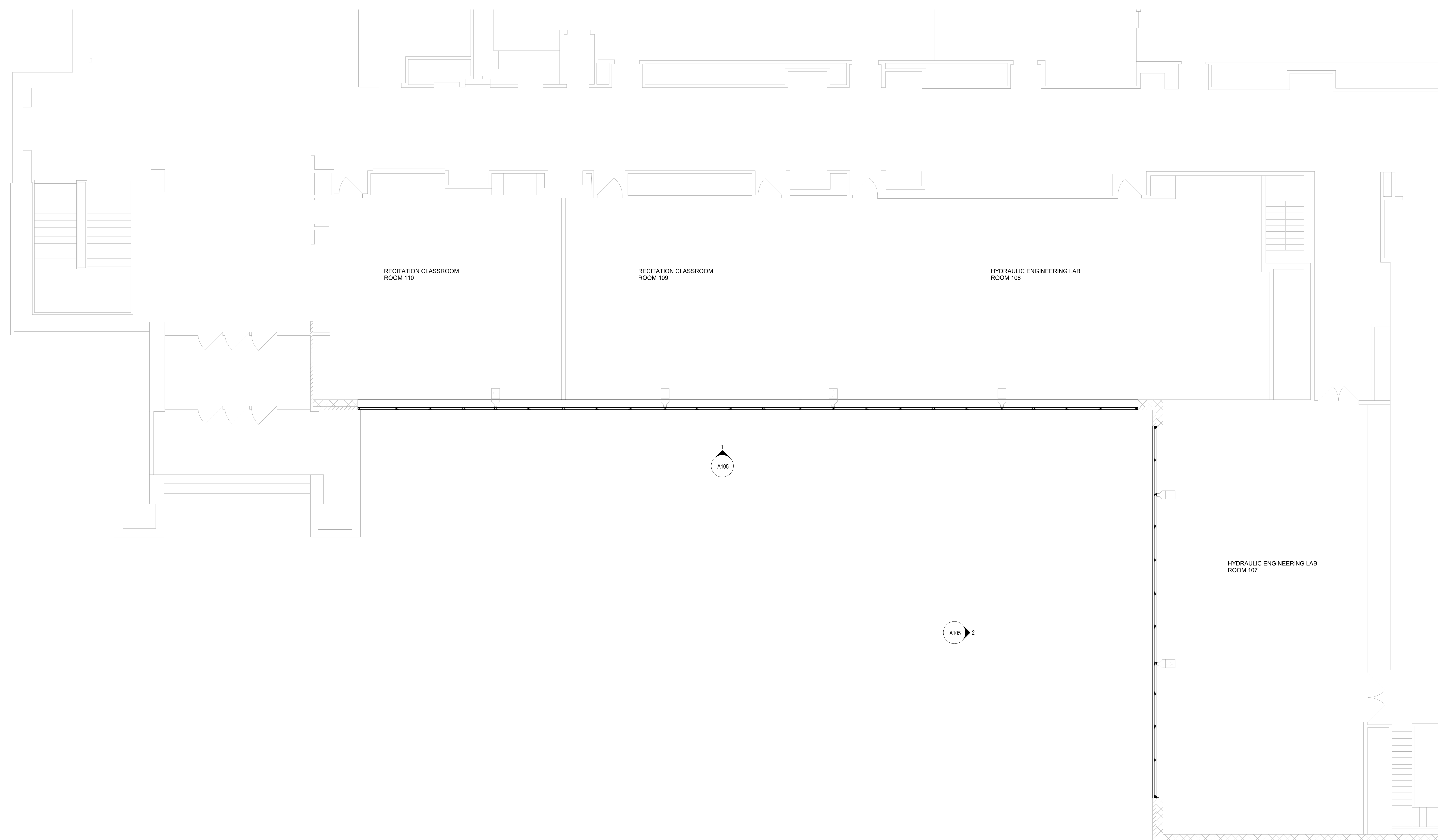
A101

**NOTE IN REGARD TO EXISTING CONDITIONS**

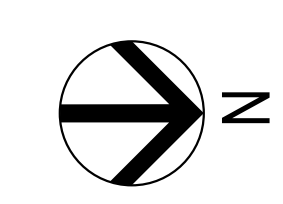
INFORMATION SHOWN ON THESE DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE BEST OF OUR KNOWLEDGE, REPRESENT THE GENERAL AND CURRENT FIELD CONDITIONS. ZS MAKES NO WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY AND ALL EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK AND REPORT TO THE AE FOR REVIEW ANY DISCREPANCIES BEFORE PERFORMING ANY WORK. ANY WORK PERFORMED PRIOR TO AE REVIEW AND SUBSEQUENT RESOLUTION OF DISCREPANCIES BY THE AE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE CONTRACT.



**ZS**  
ARCHITECTURAL ENGINEERING  
10501 West Research Drive, Suite 207  
Milwaukee, Wisconsin 53226  
Phone: (414) 727-5000  
Fax: (414) 727-6666  
www.zsllc-us.com



**FIRST FLOOR**  
3/16" = 1'-0"



**MTU-Dillman Hall Window Replacement**

1400 Townsend Dr.  
Houghton, MI 49931

No.	Description	Date

**Owner:**  
Michigan Technological University  
1400 Townsend Drive  
Houghton, Michigan 49931-1295  
Owner's Representative: Jake Guter  
(tel. 960-360-1757)

**FIRST FLOOR PLAN**

Project number: 237259  
Date: FEBRUARY 6, 2024

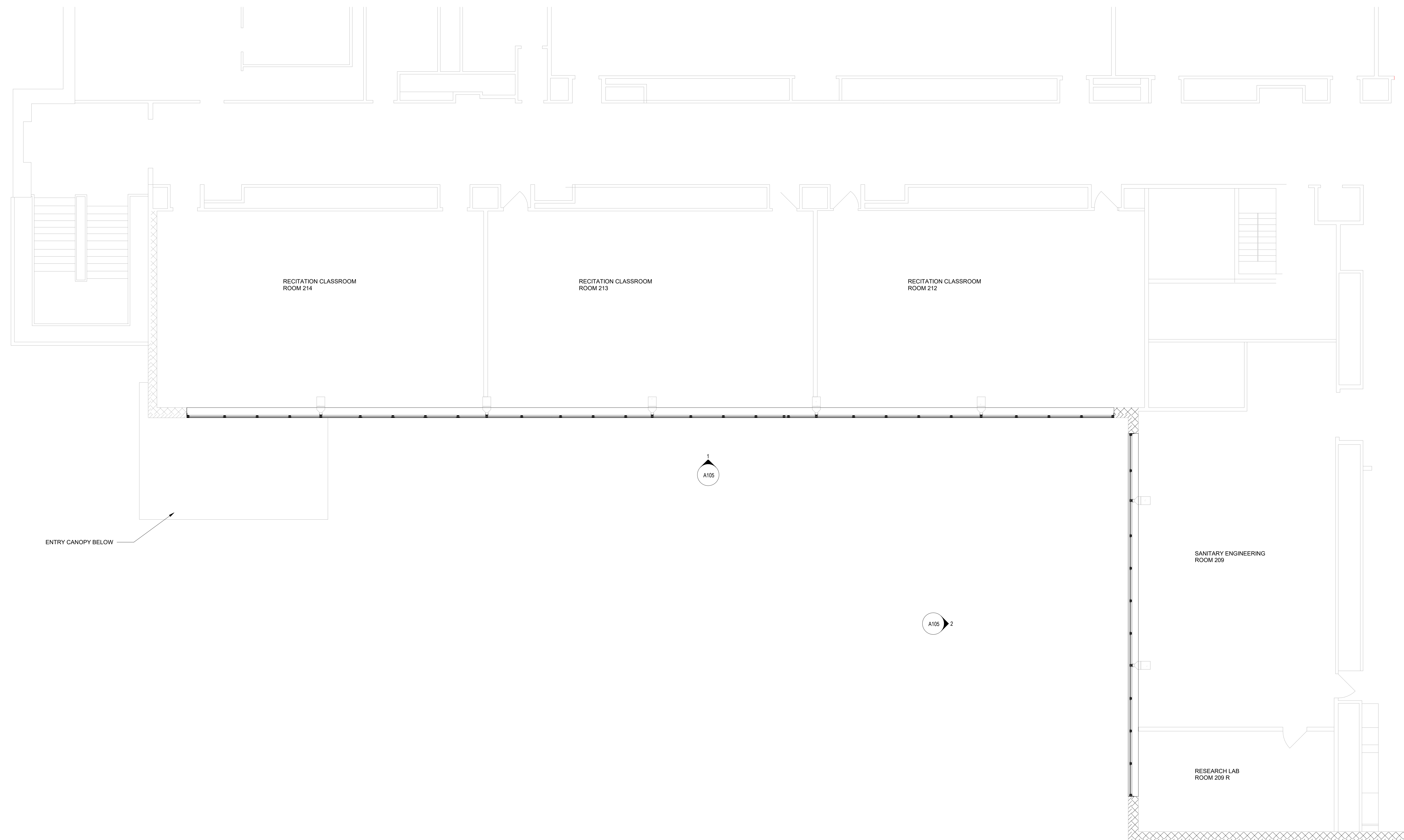
**A102**

**NOTE IN REGARD TO EXISTING CONDITIONS**

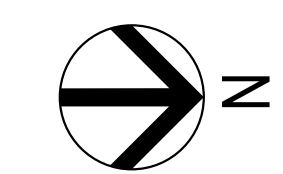
INFORMATION SHOWN ON THESE DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE BEST OF OUR KNOWLEDGE, REPRESENT THE GENERAL AND CURRENT FIELD CONDITIONS. ZS MAKES NO WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY AND ALL EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK AND REPORT TO THE AE FOR REVIEW ANY DISCREPANCIES BEFORE PERFORMING ANY WORK. ANY WORK PERFORMED PRIOR TO AE REVIEW AND SUBSEQUENT RESOLUTION OF DISCREPANCIES BY THE AE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE CONTRACT.



**ZS**  
ARCHITECTURAL ENGINEERING  
10501 West Research Drive, Suite 207  
Milwaukee, Wisconsin 53226  
Phone: (414) 727-5000  
Fax: (414) 727-6666  
www.zsllc-us.com



**Level 2**  
A103 3/16" = 1'-0"



**MTU-Dillman Hall Window Replacement**

1400 Townsend Dr.  
Houghton, MI 49931

No.	Description	Date

**Owner:**  
Michigan Technological University  
1400 Townsend Drive  
Houghton, Michigan 49931-1295  
Owner's Representative: Jake Guter  
(tel. 960-360-1757)

**SECOND FLOOR PLAN**

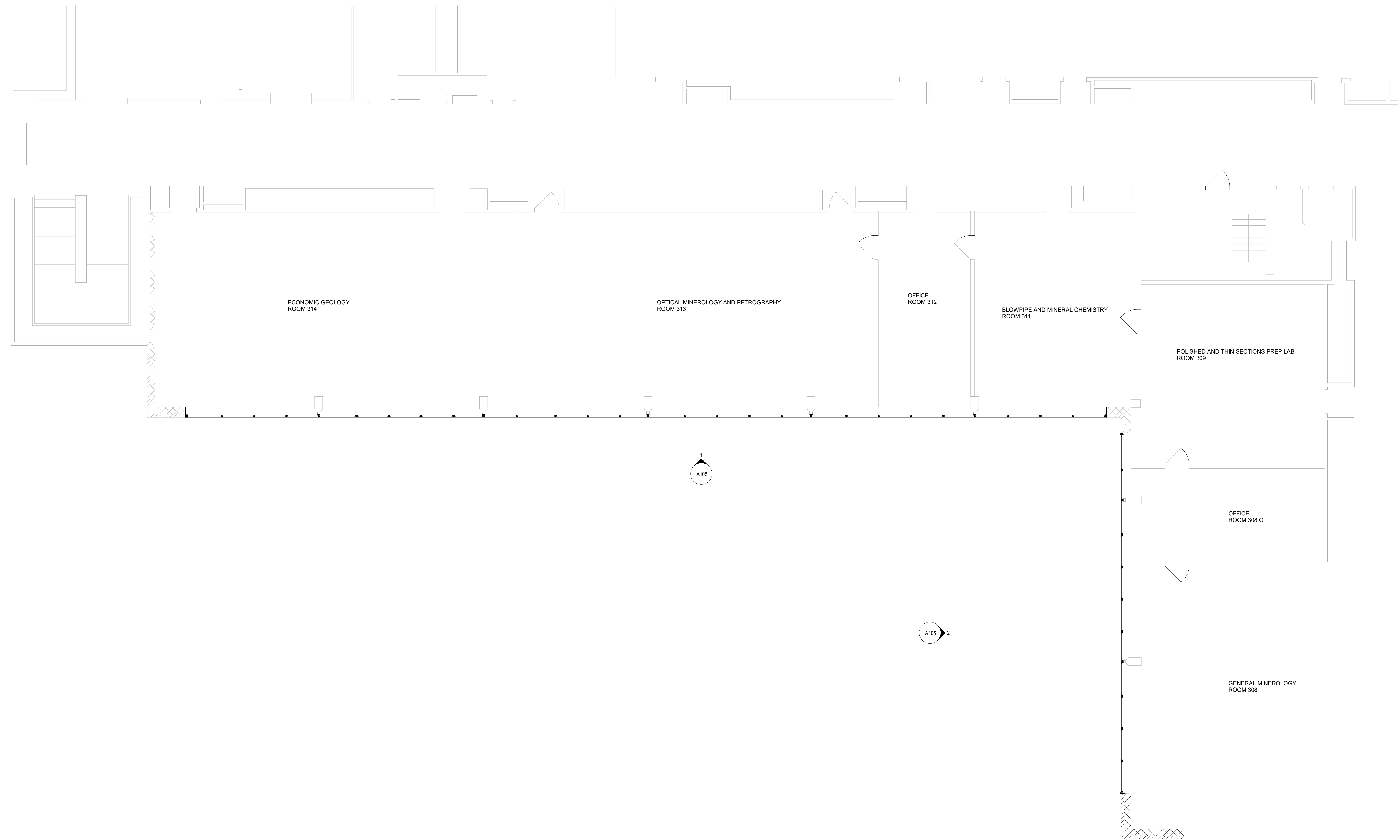
Project number: 237259  
Date: FEBRUARY 6, 2024

**A103**

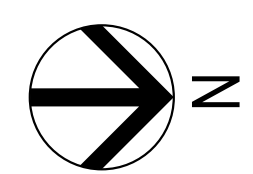
**NOTE IN REGARD TO EXISTING CONDITIONS**

INFORMATION SHOWN ON THESE DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE BEST OF OUR KNOWLEDGE, REPRESENT THE GENERAL AND CURRENT FIELD CONDITIONS. ZS MAKES NO WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY AND ALL EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK AND REPORT TO THE AE FOR REVIEW ANY DISCREPANCIES BEFORE PERFORMING ANY WORK. ANY WORK PERFORMED PRIOR TO AE REVIEW AND SUBSEQUENT RESOLUTION OF DISCREPANCIES BY THE AE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE CONTRACT.

**ZS**  
 ARCHITECTURAL ENGINEERING  
 10501 West Research Drive, Suite 207  
 Milwaukee, Wisconsin 53226  
 Phone: (414) 727-5000  
 Fax: (414) 727-6666  
 www.zsll-us.com



1 Level 3  
 A104 3/16" = 1'-0"



**MTU-Dillman Hall Window Replacement**

1400 Townsend Dr.  
 Houghton, MI 49931

No.	Description	Date

**Owner:**  
 Michigan Technological University  
 1400 Townsend Drive  
 Houghton, Michigan 49931-1295  
 Owner's Representative: Jake Guter  
 (tel. 960-360-1757)

**THIRD FLOOR PLAN**

Project number 237259  
 Date FEBRUARY 6, 2024

**A104**

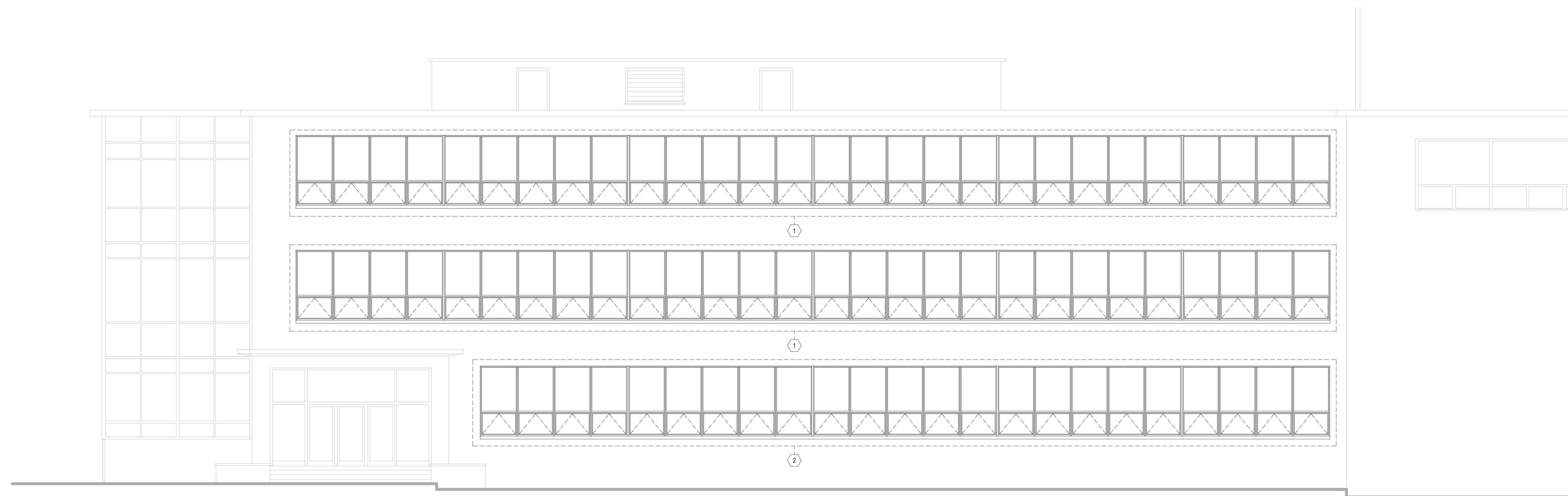


**NOTE IN REGARD TO EXISTING CONDITIONS**

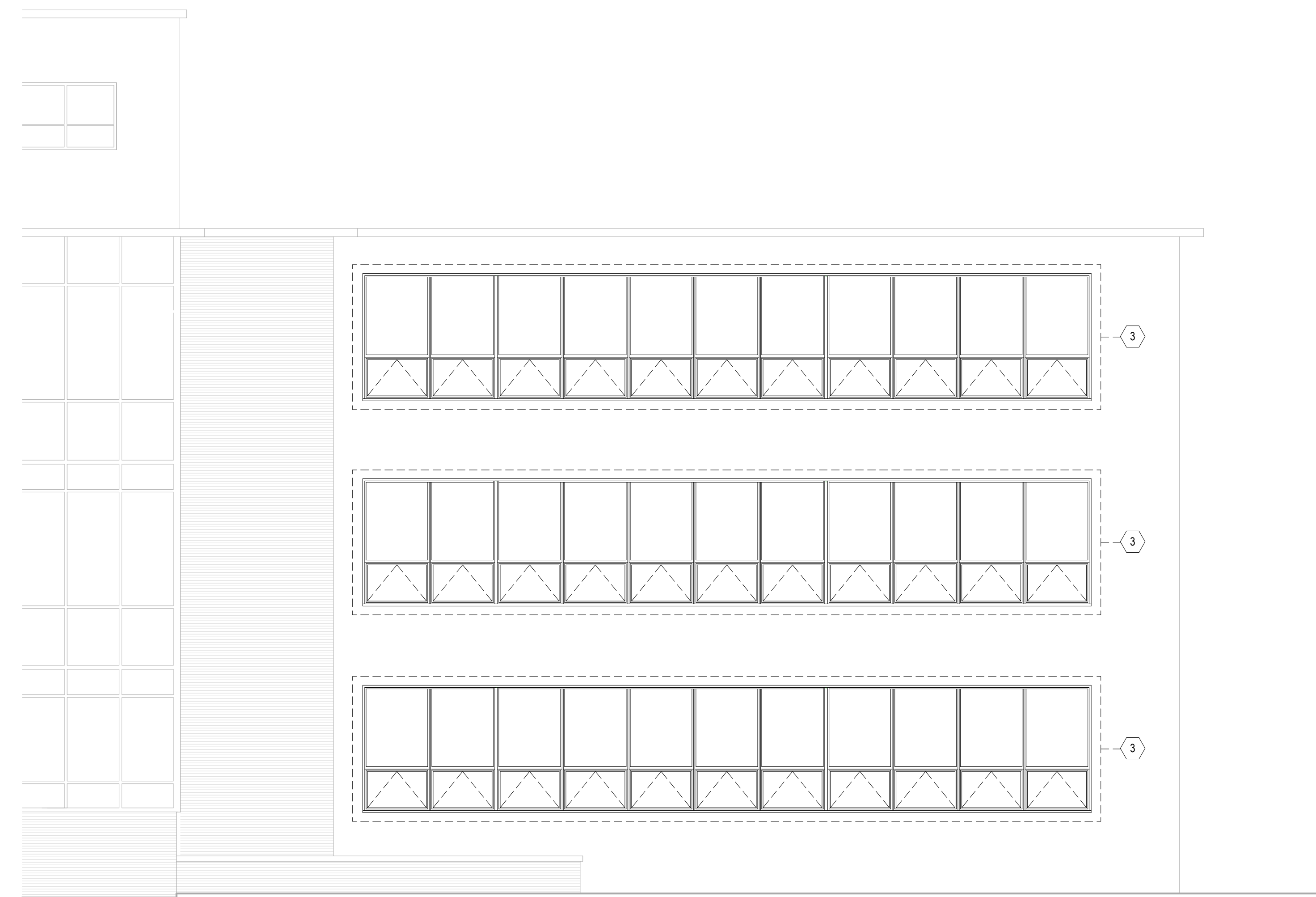
INFORMATION SHOWN ON THESE DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE BEST OF OUR KNOWLEDGE, REPRESENT THE GENERAL AND CURRENT FIELD CONDITIONS. ZS MAKES NO WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY AND ALL EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK AND REPORT TO THE AE FOR REVIEW ANY DISCREPANCIES BEFORE PERFORMING ANY WORK. ANY WORK PERFORMED PRIOR TO AE REVIEW AND SUBSEQUENT RESOLUTION OF DISCREPANCIES BY THE AE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE CONTRACT.



ARCHITECTURAL ENGINEERING  
10501 West Research Drive, Suite 207  
Milwaukee, Wisconsin 53226  
Phone: (414) 727-5000  
Fax: (414) 727-6666  
www.zsllc-us.com



**1 ELEVATION - EAST**  
A105 3/16" = 1'-0"



**2 ELEVATION - SOUTH**  
A105 3/16" = 1'-0"

KEYNOTE DESCRIPTIONS	
NOTE	DESCRIPTION
1	DEMOLISH EXISTING TYPE 1 WINDOWS, GLASS BLOCK, AND FRAMES. REPAIR MASONRY OPENING AS REQUIRED TO ACCEPT REPLACEMENT WINDOW SYSTEM. REPAIR ALL INTERIOR AND EXTERIOR SURFACES TO MATCH EXISTING. INSTALL NEW ALUMINUM WINDOWS WITH FIXED UPPER LITES AND OPERABLE AWNING LOWER LITES PER DRAWINGS.
2	DEMOLISH EXISTING TYPE 2 WINDOWS, GLASS BLOCK, AND FRAMES. REPAIR MASONRY OPENING AS REQUIRED TO ACCEPT REPLACEMENT WINDOW SYSTEM. REPAIR ALL INTERIOR AND EXTERIOR SURFACES TO MATCH EXISTING. INSTALL NEW ALUMINUM WINDOWS WITH FIXED UPPER LITES AND OPERABLE AWNING LOWER LITES PER DRAWINGS.
3	DEMOLISH EXISTING TYPE 3 WINDOWS, GLASS BLOCK, AND FRAMES. REPAIR MASONRY OPENING AS REQUIRED TO ACCEPT REPLACEMENT WINDOW SYSTEM. REPAIR ALL INTERIOR AND EXTERIOR SURFACES TO MATCH EXISTING. INSTALL NEW ALUMINUM WINDOWS WITH FIXED UPPER LITES AND OPERABLE AWNING LOWER LITES PER DRAWINGS.

**WINDOW GENERAL NOTES**

- REPAIR INTERIOR AND EXTERIOR OPENINGS, JAMBS, HEADS, SILLS, AND TRIM IF DAMAGED DURING WINDOW REMOVAL OR INSTALLATION.
- TOUCH UP INTERIOR PAINT AND FINISHES TO MATCH ADJACENT EXISTING.
- INTERIOR WALLS AND STRUCTURE SHALL NOT BE DISTURBED.

MTU-Dillman Hall Window Replacement

1400 Townsend Dr.  
Houghton, MI 49931

No.	Description	Date

**Owner:**  
Michigan Technological University  
1400 Townsend Drive  
Houghton, Michigan 49931-1295  
Owner's Representative: Jake Guter  
(tel. 960-360-1757)

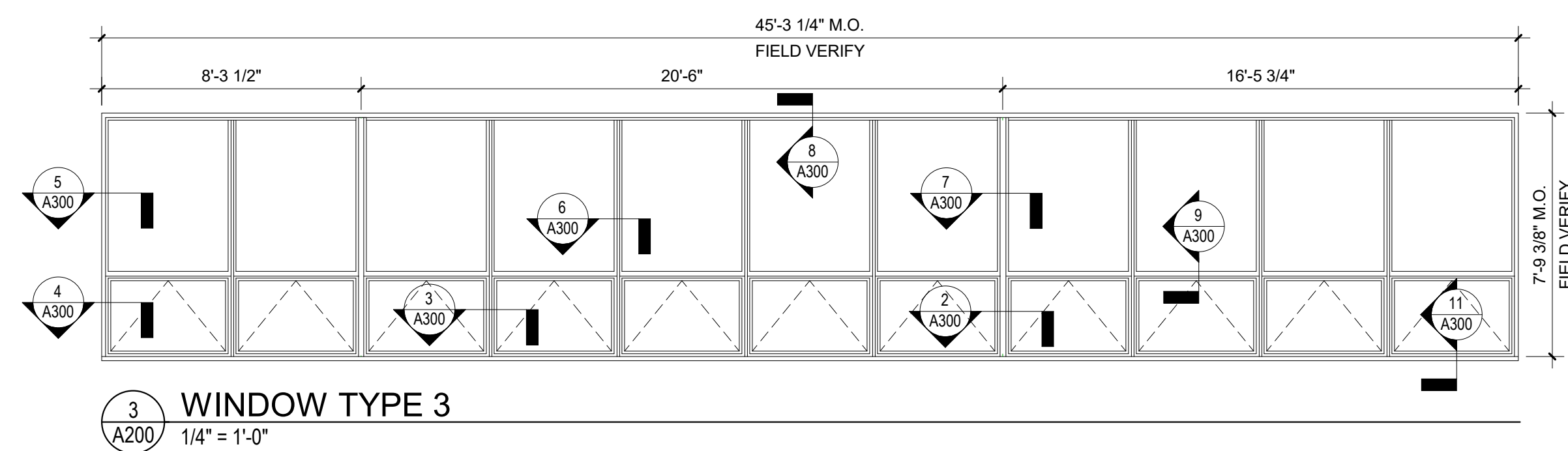
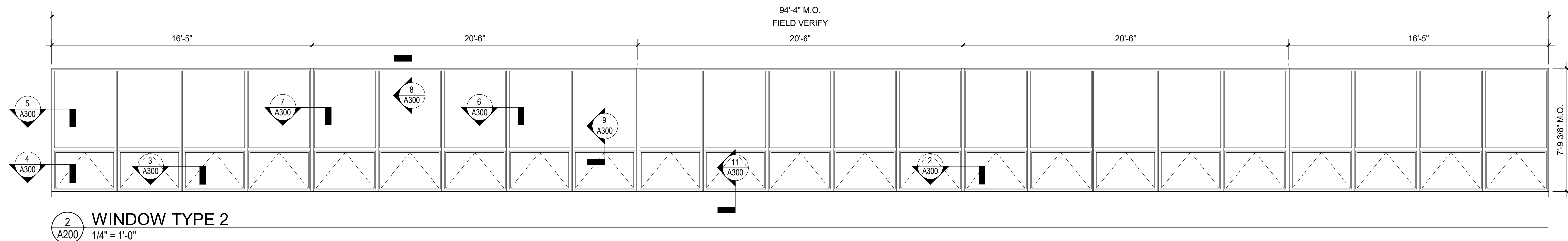
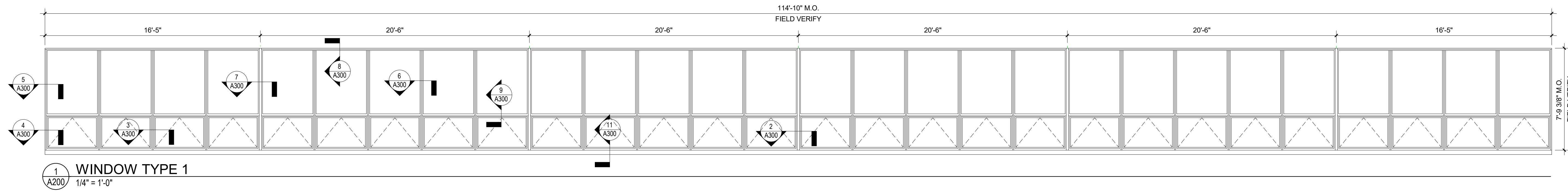
**ELEVATIONS**

Project number 237259  
Date FEBRUARY 6, 2024

**A105**

**NOTE IN REGARD TO EXISTING CONDITIONS**

INFORMATION SHOWN ON THESE DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE BEST OF OUR KNOWLEDGE, REPRESENT THE GENERAL AND CURRENT FIELD CONDITIONS. ZS MAKES NO WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY AND ALL EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK AND REPORT TO THE AE FOR REVIEW ANY DISCREPANCIES BEFORE PERFORMING ANY WORK. ANY WORK PERFORMED PRIOR TO AE REVIEW AND SUBSEQUENT RESOLUTION OF DISCREPANCIES BY THE AE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE CONTRACT.



**WINDOW GENERAL NOTES**

1. REPAIR INTERIOR AND EXTERIOR OPENINGS, JAMBS, HEADS, SILLS, AND TRIM IF DAMAGED DURING WINDOW REMOVAL OR INSTALLATION.
2. TOUCH UP INTERIOR PAINT AND FINISHES TO MATCH ADJACENT EXISTING.
3. INTERIOR WALLS AND STRUCTURE SHALL NOT BE DISTURBED.

**MTU-Dillman Hall Window Replacement**

1400 Townsend Dr.  
 Houghton, MI 49931

No.	Description	Date

**Owner:**  
 Michigan Technological University  
 1400 Townsend Drive  
 Houghton, Michigan 49931-1295  
 Owner's Representative: Jake Guter  
 (tel. 960-360-1757)

**WINDOW TYPES**

Project number 237259  
 Date FEBRUARY 6, 2024

**A200**



NOTE IN REGARD TO EXISTING CONDITIONS

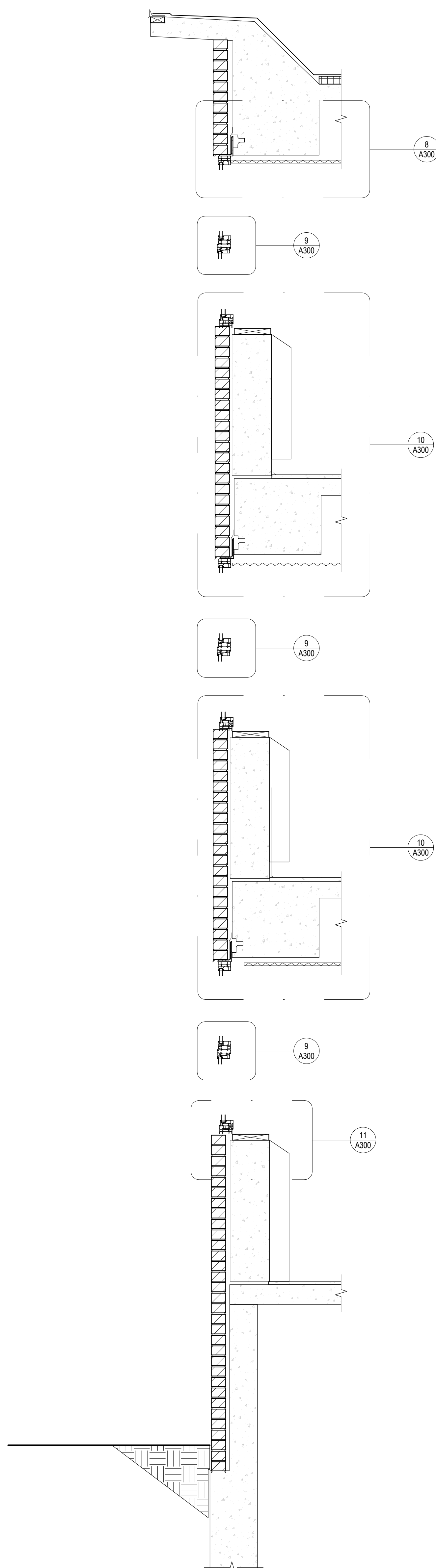
INFORMATION SHOWN ON THESE DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE BEST OF OUR KNOWLEDGE, REPRESENT THE GENERAL AND CURRENT FIELD CONDITIONS. ZS MAKES NO WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY AND ALL EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK AND REPORT TO THE AE FOR REVIEW ANY DISCREPANCIES BEFORE PERFORMING ANY WORK. ANY WORK PERFORMED PRIOR TO AE REVIEW AND SUBSEQUENT RESOLUTION OF DISCREPANCIES BY THE AE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE CONTRACT.



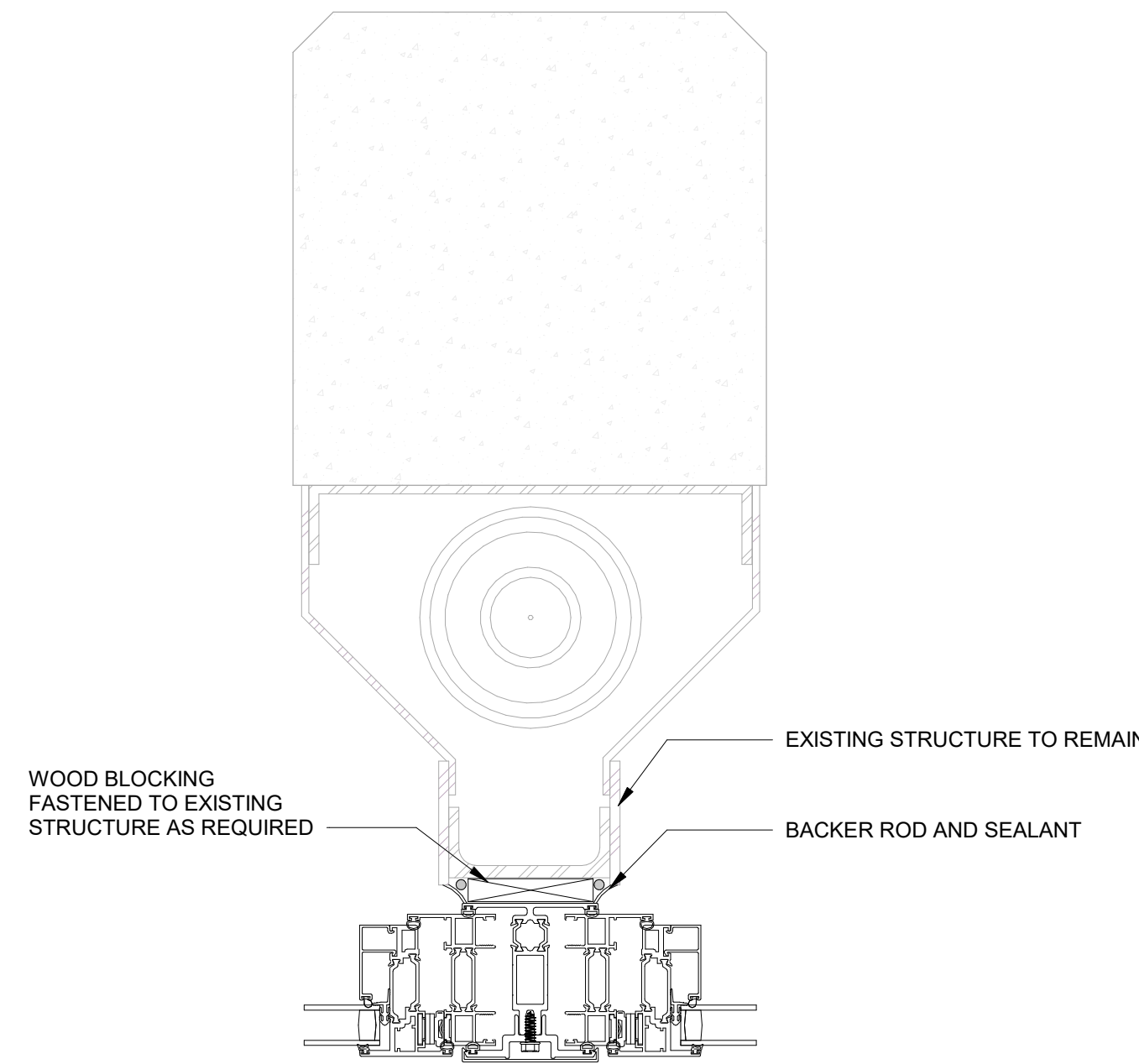
ARCHITECTURAL ENGINEERING  
 10501 West Research Drive, Suite 207  
 Milwaukee, Wisconsin 53226  
 Phone: (414) 727-5000  
 Fax: (414) 727-6666  
 www.zsllc-us.com

MTU-Dillman Hall Window Replacement

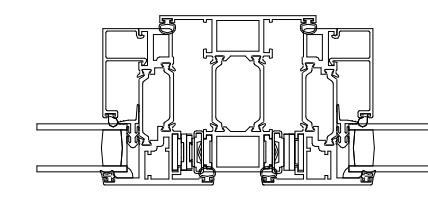
1400 Townsend Dr.  
 Houghton, MI 49931



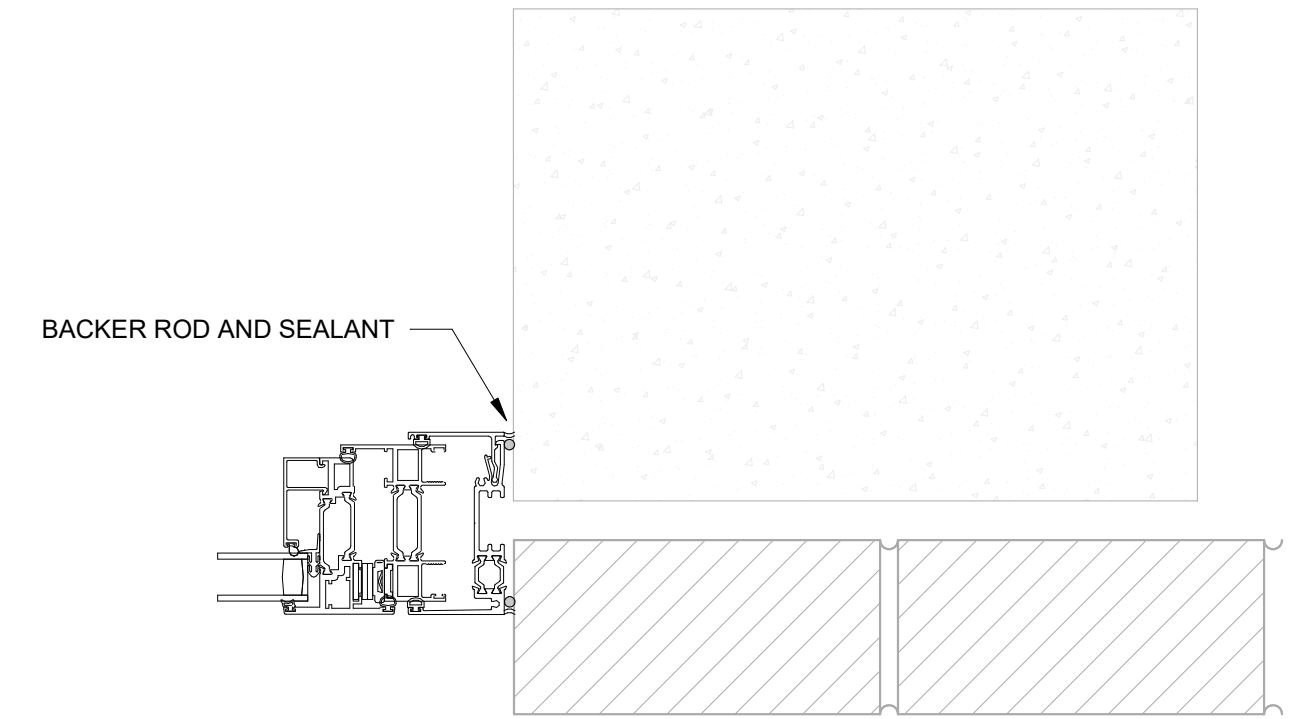
1 WALL SECTION - OVERALL  
 3/4" = 1'-0"



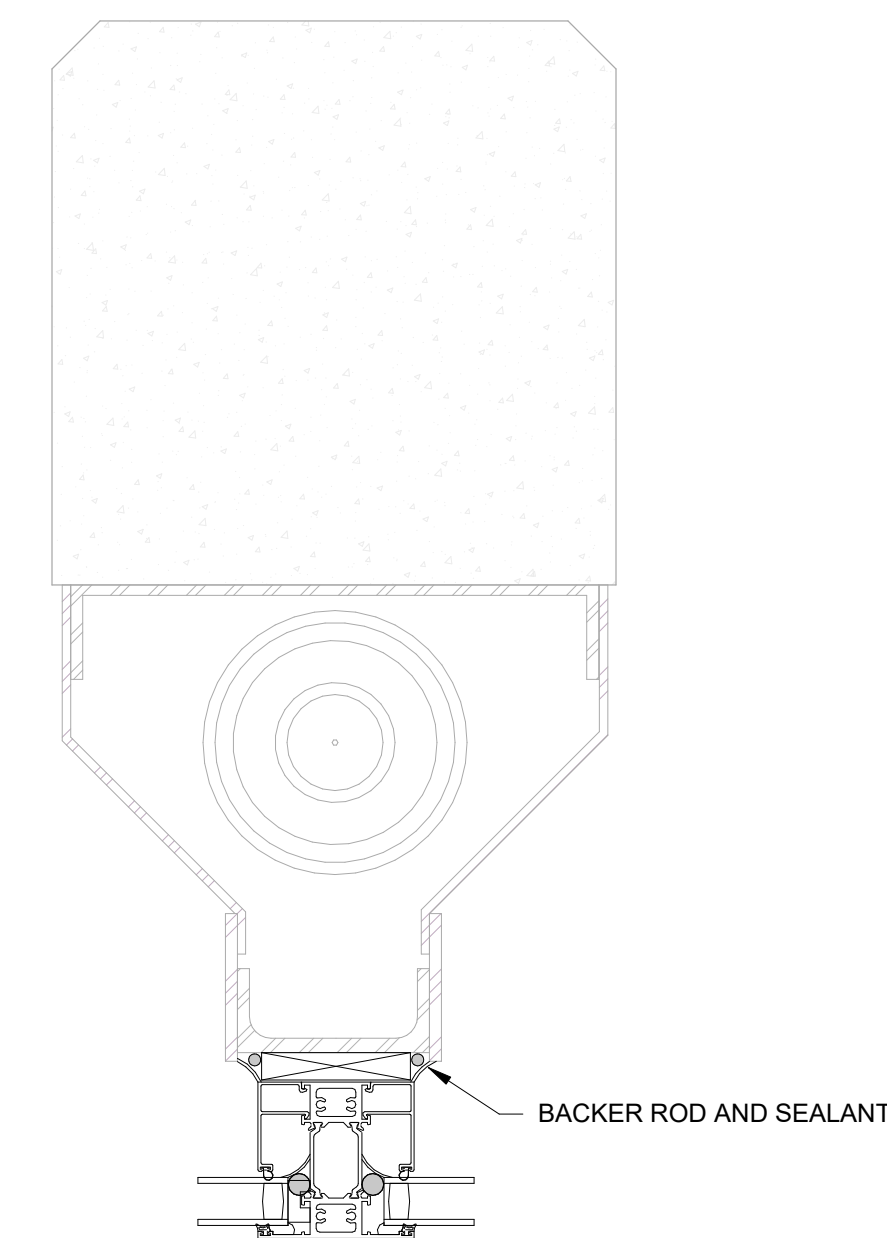
2 Operable to Operable Horizontal Column  
 3" = 1'-0"



3 Operable to Operable Horizontal  
 3" = 1'-0"

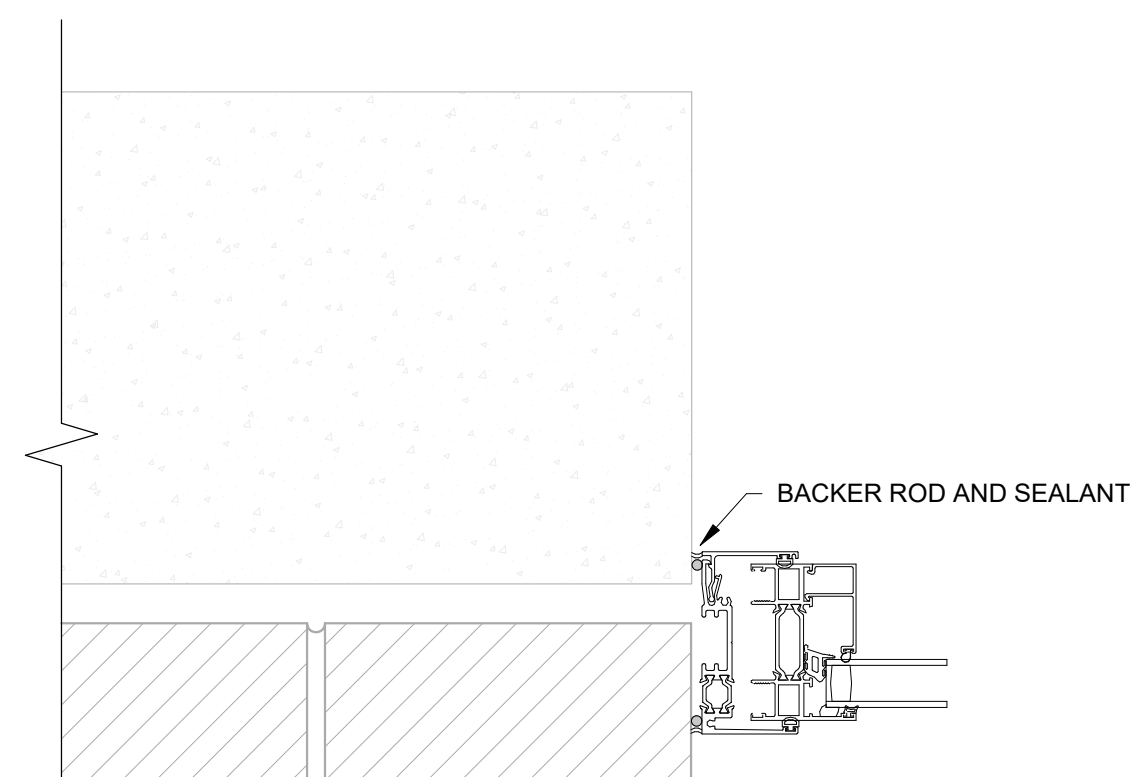


4 Operable Jamb  
 3" = 1'-0"

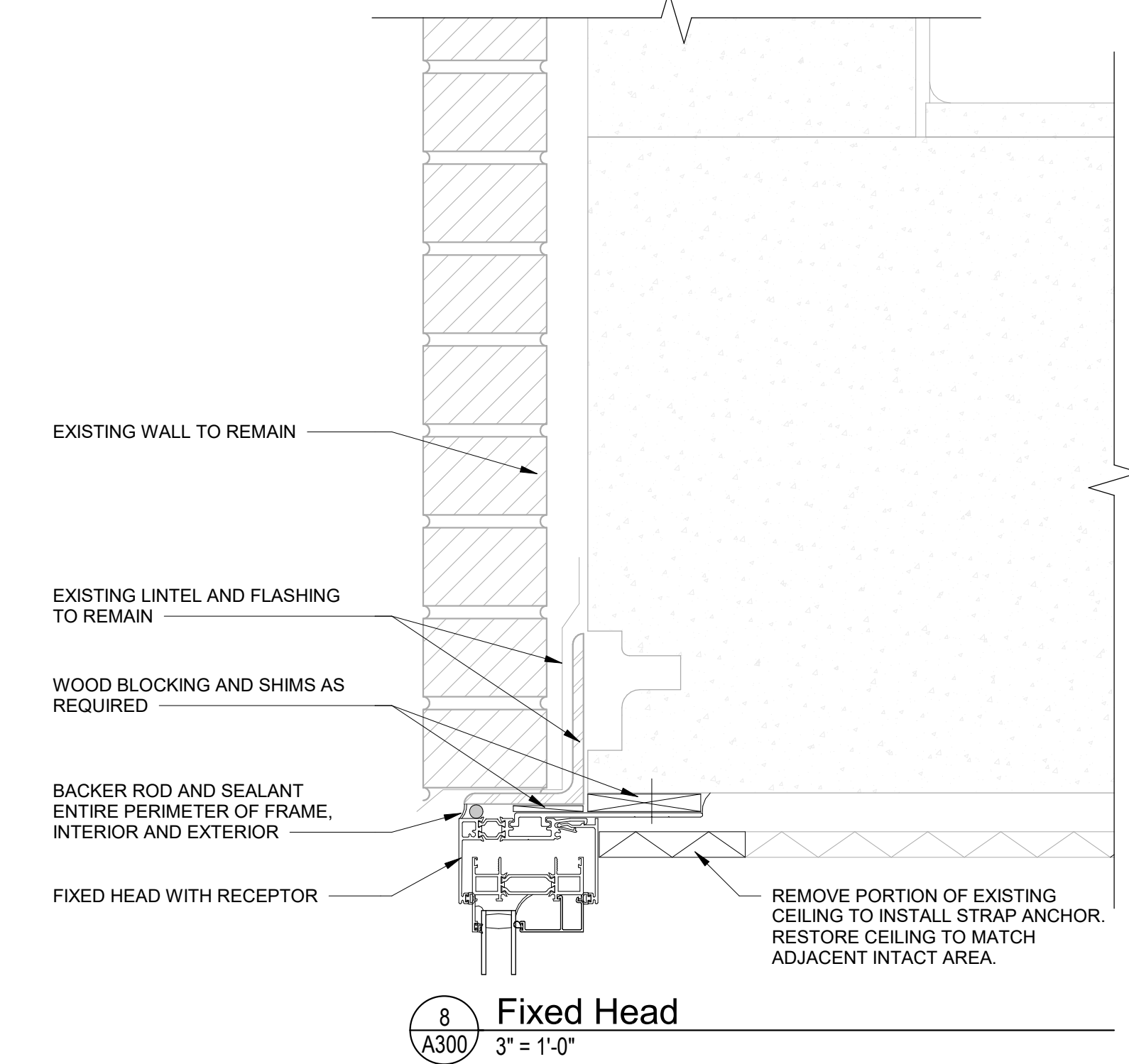


6 Fixed Horizontal  
 3" = 1'-0"

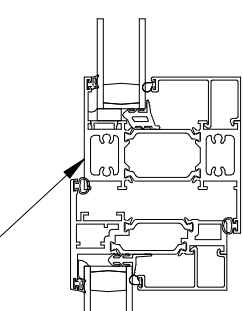
7 Fixed to Fixed Horizontal Column  
 3" = 1'-0"



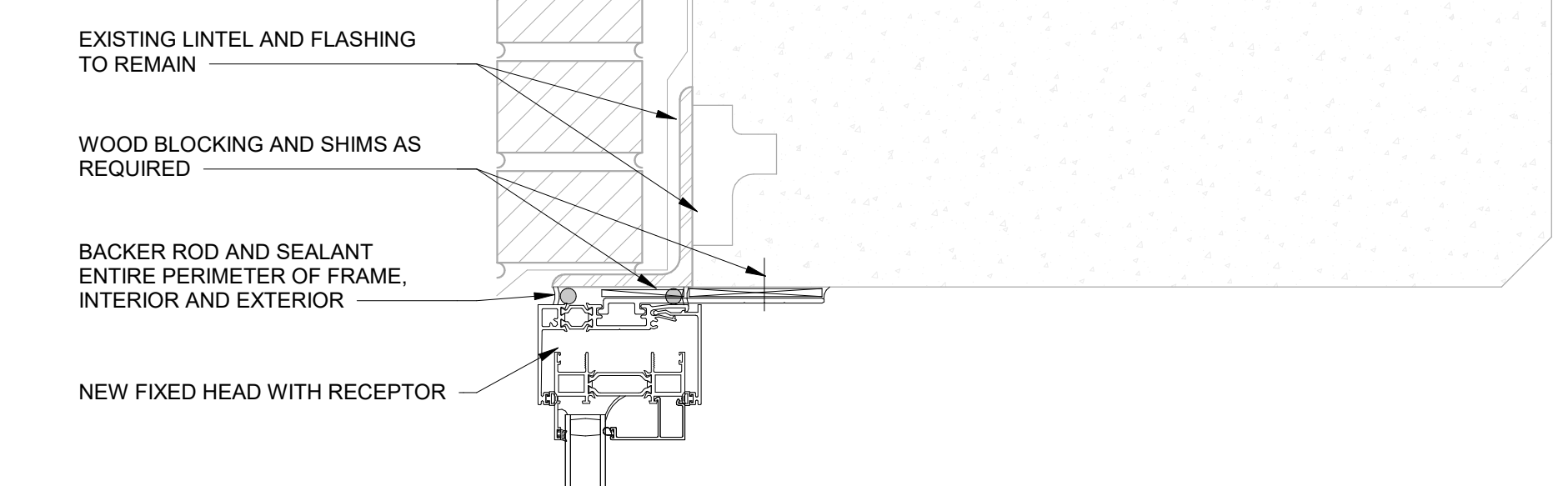
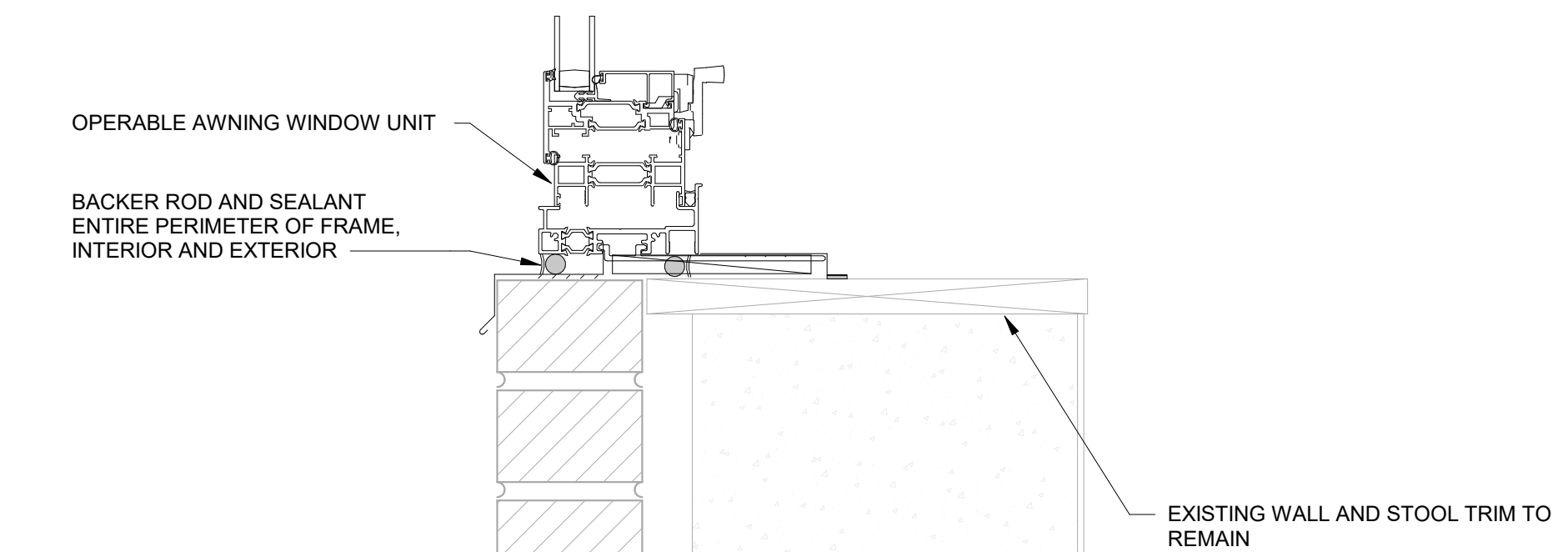
5 Fixed Jamb  
 3" = 1'-0"



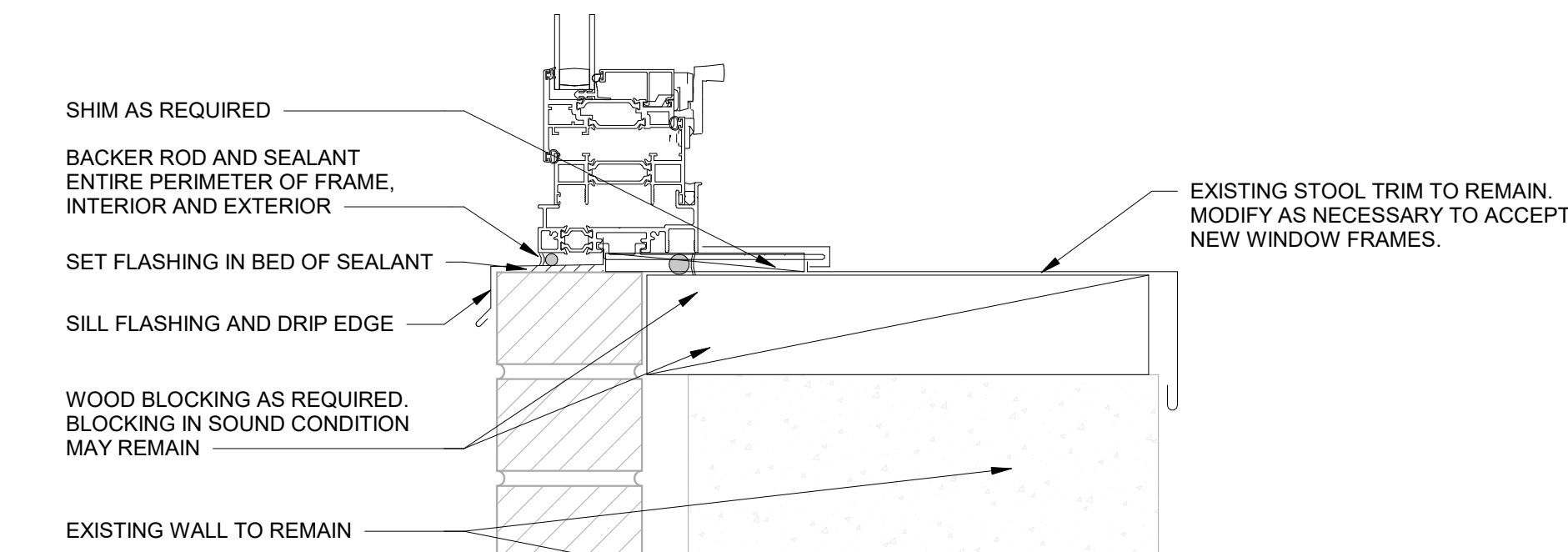
8 Fixed Head  
 3" = 1'-0"



9 Operable to Fixed Horizontal Divider  
 3" = 1'-0"



10 Spandrel  
 3" = 1'-0"



11 Operable Sill  
 3" = 1'-0"

No.	Description	Date

Owner:  
 Michigan Technological University  
 1400 Townsend Drive  
 Houghton, Michigan 49931-1295  
 Owner's Representative: Jake Guter  
 (tel. 960-360-1757)

SECTIONS AND DETAILS

Project number 237259  
 Date FEBRUARY 6, 2024

A300