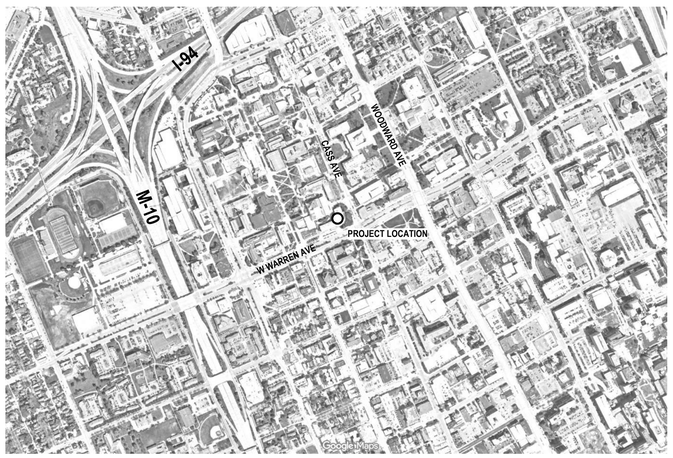
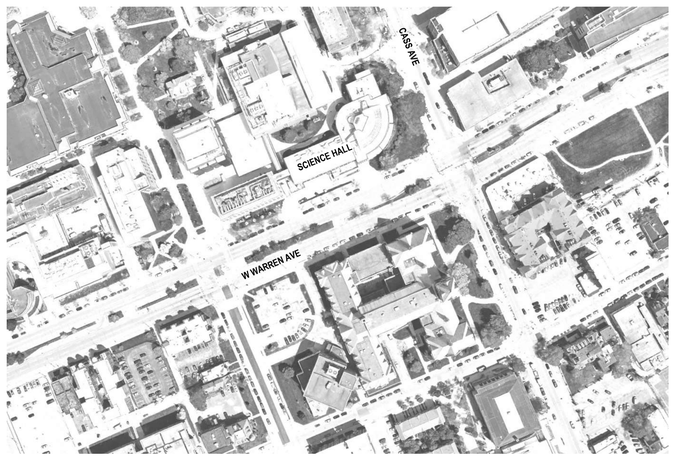
Sheet Size: 24" x 36"

WSU Science Hall Renovations

BID SET
05/15/2026



PROJECT LOCATION



SITE MAP

PROJECT SUMMARY

PROJECT DESCRIPTION:

PROJECT IS A LEVEL 1 ALTERATION OF AN EXISTING BUILDING, ENCOMPASSING APPROXIMATELY 1,400 SQUARE FEET OF THE GROUND LEVEL OF SCIENCE HALL (5045 CASS AVE). RENOVATION INCLUDES INTERIOR FINISHES. BUILDING CONSTRUCTION TYPE, USE GROUP, OCCUPANT LOAD, EGRESS COMPONENTS, AND FIRE RATINGS ARE NOT AFFECTED BY THE PROJECT. INTERIOR FINISH RATINGS SHALL BE MAINTAINED PER NFPA LIFE SAFETY CODE, STANDARD 101: MIN. CLASS A RATING FOR CEILING TILES; MIN. CLASS I RATING FOR CARPET OR FLOOR COVERING; MIN. CLASS C RATING FOR WINDOW TREATMENTS.

APPLICABLE CODES:

2021 MICHIGAN BUILDING CODE (APRIL 09, 2025)

2021 MICHIGAN REHAB CODE FOR EXISTING BUILDINGS (APRIL 09, 2025)

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

2017 MICHIGAN ACCESSIBILITY CODE

2021 MICHIGAN MECHANICAL CODE (MARCH 12, 2024)

2021 MICHIGAN PLUMBING CODE (MARCH 12, 2024)

2023 NATIONAL ELECTRICAL CODE W/ PART 8 AMENDMENTS (MARCH 12, 2024)

2023 MICHIGAN COMMERCIAL ENERGY CODE (APRIL 22, 2025)

2015 MICHIGAN UNIFORM ENERGY CODE (SEPTEMBER 20, 2017)

SHEET INDEX

WSU Science Hall Renovations

Science Hall: 5045 Cass Ave
Detroit, MI 48202
WSU#: 005-428852

INTOTO STUDIO

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Key Plan

Registration Seal

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale:

Drawing Title
COVER

Drawing No:
AG01

Sheet Size: 24" x 36"

ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
AC	ACOUSTIC/ACOUSTICAL
A/C	AIR CONDITIONING
ACC	ACCESS
ACH	AIR CONDITIONING UNIT
ADD	ADDENDUM
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM/AL	ALUMINUM
&	AND
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
@	AT
AUTO	AUTOMATIC
AVG	AVERAGE
BD	BOARD
BF	BARRIER FREE
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK/BLOCKING
BLVD	BOULEVARD
BM	BEAM/BENCHMARK
BRG	BEARING
BTU	BRITISH THERMAL UNIT
C/C	CENTER TO CENTER
CEM	CEMENT
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CH	COAT HOOK
CIP	CAST IRON PIPE/CAST IN PLACE
CIR	CIRCLE/CIRCULAR
CJ	CONTROL JOINT
CL	CENTERLINE/CLASS
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT/COMPANY
COL	COLUMN
COMP	COMPOSITION/COMPOSITE
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUE/CONTINUOUS
CORR	CORRIDOR/CORRUGATED
CP	CONTROL PANEL
CTR	CENTER/CENTERED
CW	COLDWATER
CY	CUBIC YARD
DB	DECIBEL
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DP	DAMPPROOFING
DR	DOOR/DRAIN/DINING ROOM
DRN	DRAIN
DS	DOWN SPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
EIE	END TO END
EF	EACH FACE/EXHAUST FAN
EG	EXHAUST GRILLE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL/ELEV	ELEVATION/ELEVATOR
ELEC	ELECTRIC/ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE/ENCLOSED
ENTR	ENTRANCE/ENTRY
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL/EQUIVALENT
EQUIP	EQUIPMENT
EST	ESTIMATE
ETC	ETCETERA
EW	EACH WAY
EX	EXPOSED
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	DEGREES FAHRENHEIT
FA	FIRE ALARM
FAB	FABRICATED
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
F/F	FACE TO FACE/FINISH TO FINISH
FFE	FINISH FLOOR ELEVATION
FF&E	FIXTURES, FURNISHINGS & EQUIPT.
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH/FINISHED
FIN FLR/FF	FINISH FLOOR
FIXT	FIXTURE
FLASH	FLASHING
FLG	FLOORING/FLASHING/FLANGE
FLR	FLOOR
FLUOR	FLUORESCENT
FPM	FEET PER MINUTE
FPR	FIREPROOF/FIREPROOFING
FR	FIRE RETARDANT
FRM	FRAME
FS	FULL SIZE
FT	FEET/FOOT
FTG	FOOTING
FURN	FURNISH/FURNISHED
FURR	FURRING/FURRED
FVC	FIRE VALVE CABINET
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR / GYPSUM BOARD
GC	GENERAL CONTRACTOR
GF	GROUND FACE
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS/GRID LINE
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDWD	HARDWOOD
HEX	HEXAGON
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT/HORSE POWER
HR	HOUR
HT	HEIGHT
H/V	HEATING AND VENTILATION
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
ID	IDENTIFICATION
IE	INVERT ELEVATION
IN or "	INCH/INCHES
INCL	INCLUDE/INCLUDING
INFO	INFORMATION
INSUL	INSULATATE/INSULATION
INT	INTERIOR/INTERNAL
JB	JUNCTION BOX/JOINT BACKER
JC	JANITOR CLOSET
JR	JUNIOR
K	KIP (1000#)
KD	KNOCK DOWN
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE
LAB	LABORATORY
LAM	LAMINATE/LAMINATED
LAV	LAVATORY
LF	LINEAR FEET/FOOT
LG	LONG
LH	LEFT HAND
LHRB	LEFT HAND REVERSE BEVEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LP	LIGHTING PANEL/LOW POINT
LT	LIGHT/LAUNDRY TRAY
LTG	LIGHTING
LV	LOW VOLTAGE
LW	LIGHT WEIGHT
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
mm	MILLIMETER
MO	MASONRY OPENING
MTG	MEETING
MTL	METAL/METTALIC
MULL	MULLION
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO or #	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OUTSIDE AIR/OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER/OUTSIDE DIMENSION
OF	OUTSIDE FACE DIMENSION
OFF	OFFICE
OH	OPPOSITE HAND/OVERHEAD
OPG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PA	PUBLIC ADDRESS
PASS	PASSAGE/PASSENGER
PBD	PARTICLE BOARD
PC	PIECE/PIECES/PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PRECAST CONCRETE PANEL
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PAGE
PKG	PARKING
PL	PLATE/PROPERTY LINE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLWD	PLYWOOD
POL	POLISHED
POS	POSITION/POSITIVE
PREFAB	PREFABRICATED
PROJ	PROJECT/PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYLCLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
QTR	QUARTER
R	RISER
RAD or R	RADIUS
RC	RAIN CONDUCTOR
RCP	REFLECTED CEILING PLAN
RD	ROAD/ROOF DRAIN
REBAR	REINFORCEMENT BAR
RECV	RECEIVE/RECEIVING
REF	REFER/REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED/REINFORCE/MENT
REQD	REQUIRED
REV	REVISED/REVISION
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
S	SOUTH/STORM/SINK
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
S	SOUTH/STORM/SINK
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SD	SUPPLY DUCT/DIFFUSER
SECT	SECTION
SF	SQUARE FEET/SUPPLY FAN
SHR	SHOWER
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
SS	STAINLESS STEEL
ST	STREET
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STOR	STORAGE
STRL	STRUCTURAL
SUB	SUBSTATION
SURF	SURFACE/SURFACING
SW	SWITCH
SYM	SYMBOL/SYMMETRICAL
SYS	SYSTEM
T	THERMOSTAT/TREAD
TAN	TANGENT
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TEST BOARING/TOWEL BAR
TBD	TACKBOARD/TO BE DETERMINED
TD	TRENCH DRAIN
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE/TEMPORARY/TEMPERED
THK	THICK/THICKNESS
THR	THRESHOLD
THRU	THROUGH/THROUGHOUT
TOS	TOP OF STEEL/TOP OF SLAB
TP	TANGENT POINT
TRAN	TRANSOM/TRANSFORMER
TS	TUBE SECTION/TUBE STEEL/
TV	TELEVISION
TW	THROUGH WALL
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VAC	VACUUM
VAR	VARIABLE/VARIES
VENT	VENTILATE/VENTILATION
VERT	VERTICAL/VERTICALLY
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VR	VAPOR RETARDER
W	WIDE/WIDTH/WEST/WASTE/WATTS
W/	WITH
WC	WATER CLOSET
WD	WOOD
WL	WORKING LINE
WM	WATER METER
WO	WINDOW OPENING
W/O	WITHOUT
WP	WATERPROOF/WEATHERPROOF
WP	WORKING POINT
WT	WEIGHT/WATERTIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WGL	WIRE GLASS
YD	YARD
YR	YEAR

DRAWING SYMBOLS

ROOM NAME / NUMBER

ROOM NAME
101

VIEW NAME / NUMBER

View Name	1/8" = 1'-0"	1

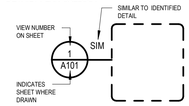
NEW COLUMN GRID

H

EXISTING COLUMN GRID

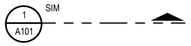
H

DETAIL / PLAN CALLOUT

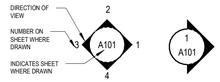


NORTH ARROW

SECTION INDICATION



ELEVATION INDICATION



LEVEL INDICATION

REVISION CLOUD IDENTIFICATION

DOOR IDENTIFICATION

OPENINGS (DOOR & BORROWED LIGHT) SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE OPENINGS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL OPENING REQUIRED.

101 / 101A / 101B FOR NUMBER NEEDED

WINDOW IDENTIFICATION

1t

WALL IDENTIFICATION

1i

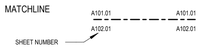
DESCRIPTION STARTS AT WALL SURFACE DESIGNATED

CEILING HEIGHT

9' - 0"

DIMENSION LINE

MATCHLINE



MATERIAL SYMBOLS

- CONCRETE SECTION
- PRECAST CONCRETE SECTION
- CMU
- CMU SECTION
- MASONRY VENEER (SOLDIER COURSE)
- MASONRY VENEER
- MASONRY SECTION
- ALUMINUM
- STEEL
- GLASS
- ASPHALT SHINGLES
- EARTH
- GRASS
- RIGID INSULAITON (SECTION)
- EXTRUDED POLY
- MINERAL WOOL
- BATT INSULATION
- EXPANDED POLY
- PLYWOOD SECTION
- WOOD (ROUGH)
- FINISH WOOD
- ACT LAY-IN (2X2)
- ACT LAY-IN (2X2)
- GYPSUM BOARD
- CUT STONE
- GROUT

WSU Science Hall Renovations

Science Hall: 5045 Cass Ave Detroit, MI 48202 WSU#: 005-428852

INTOTO STUDIO

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale: As indicated

Drawing Title

GENERAL NOTES

Drawing No:

AG02

Sheet Size: 24" x 36"

GENERAL REQUIREMENTS

SECTION 011000 - SUMMARY

1. The scope of work includes: renovation of a portion of Old Main Basement level, and Science Hall Level 01 lounges.
2. Low Voltage Work: comply with WSU C&IT standards: https://tech.wayne.edu/docs/wsu_comm_standards-12182020.pdf
3. Construction Operations: Limited to areas noted on Drawings.
4. Provide access to and from site as required by law and by Owner:
   5.1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   5.2. Do not obstruct roadways, sidewalks, or other public ways without permit.
5. Visit site, check facilities and conditions, verify all utility connections, and take all items into consideration in bid.
6. Systems are to be complete and workable in all respects, placed in operation and properly adjusted.
7. The Contractor shall be solely responsible for construction means, methods, sequences of construction, and the safety of workers.
8. Conform to all applicable codes and government regulations.
9. Obtain permits and pay all fees. Arrange for all required inspections and approvals.

SECTION 012000 - PRICE AND PAYMENT PROCEDURES

1. Schedule of Values: Use AIA G703 unless otherwise stipulated in the Agreement or required by Owner.
   1.1. Submit within 15 days after executing Owner-Contractor Agreement unless otherwise stipulated in Bid Documents or requested by Owner.
2. Applications for Progress Payment: Use AIA G702 unless otherwise stipulated in the Agreement or required by Owner.
   2.1. Payment Period: As stipulated in Owner-Contractor Agreement.
   2.2. Use dala from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for products and materials stored on site.
   2.3. List each Change Order as a separate line item with Change Order number and dollar value.
   2.4. Include conditional release of liens from each Subcontractor and vendor for current month's payment application, and unconditional release of liens from each Subcontractor and vendor for the previous month's payment application.
3. Modification Procedures:
   3.1. Supplemental Instructions: For minor modifications not involving an adjustment to the Contract Sum or Contract Time; Architect will review all proposed changes with the Owner before issuing instructions directly to Contractor.
   3.2. Construction Change Directive: For other required modifications, Architect will issue a document signed by Architect and Owner instructing Contractor to proceed with the modification, for subsequent inclusion in a Change Order.
   3.3. Proposal Request: For modifications for which advance pricing is desired, Architect will issue a document which includes a detailed description of a proposed modification with supplementary or revised drawings and specifications, a modification in Contract Time for executing the modification with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within 10 days.
   3.4. Change Order: Contractor may propose a change by submitting a request for change order or modification to Architect, describing the proposed change and its full effect on the Work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation and a statement describing the effect on Work by separate or other contractors.
      3.4.1. Substantiation of Costs: Provide full information required for evaluation.
   3.5. Execution of Change Orders: Contractor will issue Change Orders for signatures of Owner and Architect.
      3.5.1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
      3.5.2. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
4. Application for Final Payment:
   4.1. Application for Final Payment will not be considered until the following have been accomplished:
      4.1.1. Closeout procedures have been completed.
      4.1.2. As-Built and Record Drawings have been submitted and approved by Owner.
      4.1.3. Authority Having Jurisdiction has issued a Certificate of Occupancy.
      4.1.4. Owner and Architect have accepted the Work.

SECTION 012500 - SUBSTITUTION PROCEDURES

1. Base equipment manufacturer, model, and capacity of equipment are listed on the drawings or in this specification. Any other manufacturer is considered a substitution.
2. Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
   2.1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
   2.2. Agrees to provide the same warranty for the substitution as for the specified product.
   2.3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
   2.4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
   2.5. Waives claims for additional costs or time extension that may subsequently become apparent.
   2.6. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
3. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
   3.1. Note explicitly any non-compliant characteristics.
4. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response, including project information, description of substitution and why specified item cannot be provided, differences between items, description of how substitution affects other work, comparative product and performance data, visual effect, warranties, samples, and changes to contract time or contract sum.
   4.1. Form: Use CSI Form 13.1A or other form approved by Architect
5. Substitutions During Construction: Submit request for Substitution for Convenience immediately upon discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
6. Substitutions will not be considered under one or more of the following circumstances:
   6.1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
   6.2. Without a separate written request.
   6.3. When acceptance will require revisions to the Contract Documents.
7. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

SECTION 013000 - ADMINISTRATIVE REQUIREMENTS

1. RFIs: Prepare an RFI immediately upon discovery of a need for interpretation of the Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
   1.1. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
   1.2. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.
   1.3. Prepare and maintain a tabular log of RFIs for the duration of the project.
   1.4. Review Time: Architect will respond and return RFIs within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
   1.5. Responses; Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.
2. Submittals: When the following are specified in individual sections, submit them for review: Product data, shop drawings, samples for selection, samples for verification, delegated engineering design documentation and calculations, and other documents indicated.
   2.1. Submit a single transmittal, sequentially numbered, for related items.
   2.2. Apply contractor's stamp, signed or initialed, certifying that review, approval, and coordination of information is in accordance with the Contract Documents.
   2.3. For each submittal for review, allow 14 days excluding delivery time to and from the Contractor. For sequential reviews involving Architect's consultants, Owner, or another affected party, allow an additional 7 days.
   2.4. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.
   2.5. Submittals not requested will be recognized, and will be returned "Not Reviewed".
3. Provide a comprehensive photographic survey of the site and building conditions prior to the commencement of Work. Photos shall be of high resolution and sufficiently detailed to determine existing conditions, such as cracked concrete, chipped steps, broken or cracked windows, and other general conditions in areas that will be affected by the movement of workers or materials.
   3.1. Transmit photographs in electronic form to the Owner and Architect prior to the commencement of Work.

SECTION 014000 - QUALITY REQUIREMENTS

1. Designer Qualifications: Where professional engineering design services and design data submittals are specifically required of Contractor by Contract Documents, provide services of a Professional Engineer experienced in design of this type of work and licensed in the State in which the project is located.
2. Reference Standards: For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of this standard, except when more rigid requirements are specified or are required by applicable codes.
3. Testing: As indicated in individual specifications sections, Owner or Contractor shall employ and pay for services of an independent testing agency to perform specified testing.
   3.1. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.
   3.2. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.
4. Control of Installation:
   4.1. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
   4.2. Comply with manufacturers' instructions, including each step in sequence.
   4.3. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
   4.4. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
   4.5. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.
   4.6. It is the contractor's responsibility to check and conform to field conditions and manufacturer's requirements prior to starting work.

SECTION 015000 - TEMPORARY FACILITIES

1. Water Service: Use water from Owner's existing water system without metering and without payment of use charges.
2. Electric Power Service: Use electric power from Owner's existing system without metering and without payment of use charges. Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241. Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
3. Tests and Inspections: arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.
4. Field Offices: Provide field office(s) in location acceptable to Owner.
5. Provide Fire Extinguishers: Hand carried, portable, and UL rated. Provide class and extinguishing agent as indicated or a combination of extinguishers of NFPA-recommended classes for exposures. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent and size required by location and class of fire exposure.
6. Sewers and Drainage: If sewers are available, provide temporary connections to remove effluent that can be discharged lawfully. If neither sewers nor drainage facilities can be lawfully used for discharge of effluent, provide containers to remove and dispose of effluent off-site in a lawful manner. After heavy use, restore nonnal conditions promptly.
7. Sanitary Facilities: Coordinate use of existing facilities with Owner. Restore facilities to same or better condition after Project completion.
8. Safety Facilities: Provide safety showers, eyewash fountains, and similar facilities for convenience, safety, and sanitation of personnel.
9. Electric Distribution: Provide receptacle outlets adequate for connection of power tools end equipment. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length- voltage ratio.
10. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
11. Project Identification and Temporary Signs: Prepare project identification and other signs in sizes and locations approved by owner. Install signs where indicated to inform public and persons seeking entrance to project. Do not permit installation of unauthorized signs.
12. Security Enclosure and Lockup: Install substantial and serure temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
13. Barricades, Warning Signs, and lights: comply with standards and code requirements for erecting structurally adequate barricades. Paint with appropriate colors, graphics, and warning signs or lights, as needed, to inform personnel and public of possible hazard.

SECTION 016000 - PRODUCT REQUIREMENTS

1. New Products: Provide new products, free from defects, unless specifically required or permitted by the Contract Documents.
2. Product Selections:
   2.1. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with requirements for comparable products to obtain approval for use of an unnamed product.
   2.2. Submit additional documentation, when requested by Architect, to establish equivalency of proposed products. Evaluation of "comparable" products and "or equal" products are by the Architect, whose determination is final.
   2.3. Basis-of-Design (BOD) Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "Basis of Design," including make or model number or other designation. In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers.
   2.4. Comparable Product: Product that is demonstrated and approved by Architect through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
3. Provide full warranty on all materials, equipment and workmanship for one (1) year from date of acceptance, unless noted otherwise. Repair or replace without charge to the Owner all items found defective during the warranty period.
4. Transportation and Handling:
   4.1. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
   4.2. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
   4.3. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
   4.4. Transport and handle products in accordance with manufacturer's instructions.
   4.5. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
   4.6. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
   4.7. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
   4.8. Arrange for the return of packing materials, such as wood pallets, where economically feasible.
5. Storage and Protection:
   5.1. Store and protect products in accordance with manufacturers' instructions.
   5.2. Store with seals and labels intact and legible.
   5.3. Store sensitive products in weathertight climate-controlled enclosures in an environment favorable to product.
   5.4. Provide off-site storage and protection when site does not permit on-site storage or protection.
   5.5. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
   5.6. Do not store products directly on the ground.
   5.7. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
   5.8. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
   5.9. Prevent contact with material that may cause corrosion, discoloration, or staining.
   5.10. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
   5.11. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

SECTION 017000 - EXECUTION AND CLOSEOUT REQUIREMENTS

1. Project Requirements:
   1.1. Use of explosives is not permitted.
   1.2. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
   1.3. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations. Noisy construction activities shall be coordinated as to acceptable times with Owner.
   1.4. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
   1.5. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.
   1.6. Pollullon Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.
2. Coordination:
   2.1. Coordinate scheduling, submittals, and work of the various sections of the specifications to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
   2.2. Notify affected utility companies and comply with their requirements.
   2.3. Arrange for and obtain Owner's permission for any service shutdowns required under this contract.
   2.4. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
   2.5. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
   2.6. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
   2.7. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.
3. Examination:
   3.1. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
   3.2. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
   3.3. Examine and verify specific conditions described in individual specification sections.
   3.4. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
   3.5. Verify that utility services are available, of the correct characteristics, and in the correct locations.
   3.6. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.
4. Preparation:
   4.1. Clean substrate surfaces prior to applying next material or substance.
   4.2. Seal cracks or openings of substrate prior to applying next material or substance.
   4.3. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.
5. Cutting and Patching:
   5.1. Whenever possible, execute the work by methods that avoid cutting or patching.
   5.2. All cutting and patching of the building construction as required shall be in a neat and professional manner.
   5.3. Neatly saw cut all rectangular openings, set sleeve through opening, and finish patch or provide trim flange around opening.
   5.4. Core drill and sleeve all round openings.
   5.5. Do not cut any structural components without Architect's approval.
   5.6. Patch and finish to match adjacent areas that have been cut, damaged or modified as a result of the installations of the mechanical or electrical equipment. Fire stop all penetrations of fire rated construction in a code approved manner.
6. Progress Cleaning:
   6.1. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
   6.2. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to endosing the space.
   6.3. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
   6.4. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site. Do not burn or bury.
7. Protection of Installed Work:
   7.1. Protect installed work from damage by construction operations.
   7.2. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
   7.3. Remove protective coverings when no longer needed. Reuse or recycle coverings if possible.
8. System Startup:
   8.1. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
   8.2. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
   8.3. Verify that wiring and support components for equipment are complete and tested.
   8.4. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
   8.5. Adjust operating products and equipment to ensure smooth and unhindered operation.
9. Demonstration and Training: Demonstrate operation and maintenance of products to Owner's personnel two weeks prior to date of Substantial Completion.
10. Final Cleaning:
   10.1 Execute final cleaning prior to final project assessment.
   10.2 Use cleaning materials that are nonhazardous.
   10.3 Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment
   10.4 Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
   10.5 Clean filters of operating equipment.
   10.6 Remove waste, surplus materials, trash/rubbish, and construction facilities from the site. Dispose of in legal manner. Do not burn or bury.

SECTION 017800- CLOSEOUT SUBMITTALS

1. Closeout Procedures:
   1.1. Make submittals that are required by governing or other authorities.
   1.2. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.
   1.3. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.
   1.4. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.
   1.5. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.
   1.6. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.
   1.7. Complete items of work determined by Architact listed in executed Certificate of Substantial Completion.
2. Provide administrative and procedural requirements for contract closeout, including, but not limited to, the following:
   2.1. Inspection procedures and reports.
   2.2. As-built and Record Drawings.
   2.3. Operation and maintenance manuals.
   2.4. Warranties and bonds.
   2.5. Spare parts/maintenance materials
   2.6. Certificate of substantial completion.
   2.7. Keys.

DEMOLITION

SECTION 024100 - DEMOLITION

1. Scope: As indicated in Drawings.
2. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
   2.1. Obtain required permits. Do not obstruct roadways or sidewalks without permit.
   2.2. Comply with applicable requirements of NFPA 241.
   2.3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed. Do not allow worker or public access within range of potential collapse of unstable structures.
   2.4. Provide, erect, and maintain temporary barriers and security devices.
   2.5. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
   2.6. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
3. Protect existing structures and other elements that are not to be removed.
4. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner. Hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.
5. Hazardous Materials: Comply with 29 CFR 1926 and state and local regulations.
6. Coordinate work with utility companies. Notify before starting work and comply with their requirements. Obtain required permits.
7. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
8. Locate and mark utilities to remain. Mark using highly visible tags or flags, with identification of utility type. Protect from damage due to subsequent construction, using substantial barricades if necessary.
9. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
10. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
   10.1. Verify that construction and utility arrangements are as indicated.
   10.2. Report discrepancies to Architect before disturbing existing installation.
   10.3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition
11. Separate areas in which demolition is being conducted from other areas that are still occupied.
   11.1. Provide, erect, and maintain temporary dustproof partitions of construction as required.
12. Ensure that work area maintains negative pressure. Negative pressure shall not be achieved by using the return air path of an existing or new permanent air handling unit unless the existing ductwork is scheduled for demolition. If necessary, provide dedicated air handling equipment and ducting to provide and maintain negative pressurization throughout demolition and the duration of construction activities, or until such time as the Owner agrees the Work Area presents no recognized hazard to surrounding environments or occupants.
13. Remove existing work as indicated and as required to accomplish new work.
   13.1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete. Replace with new construction as specified.
   13.2. Remove items indicated on drawings.
14. Protect existing work to remain.
   14.1. Prevent movement of structure. Provide shoring and bracing if necessary.
   14.2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
   14.3. Repair adjacent construction and finishes damaged during removal work.
   14.4. Patch as specified for patching new work.
15. Salvage items required by owner. Conform with owner's specific requirements for salvaging certain products, devices, and hardware.

FINISHES

SECTION 096813 - CARPET TILE

1. Submittals: Provide product data and samples.
2. Maintenance Materials: Furnish extra tile equal to five percent of total installed units.
3. Field Conditions: Store materials in area of installation for minimum period of 24 hours prior to installation. Comply with CRI 104 for temperature, humidity, and ventilation limitations.
   3.1. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive, and concrete slabs have a pH range recommended by carpet tile manufacturer.
4. Tile Carpeting: Type as scheduled, manufactured in one color dye lot.
   4.1. Critical Radiant Flux: Minimum of 0.45 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
5. Accessories:
   5.1. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
   5.2. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.
6. Examination: Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
   6.1. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.
   6.2. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.
      6.2.1. Test in accordance with ASTM F710.
      6.2.2. Obtain instructions and install remedial products if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.
7. Preparation: Prepare floor substrates as recommended by flooring and adhesive manufacturers.
8. Installation, General: Starting installation constitutes acceptance of sub-floor conditions. Install carpet tile in accordance with manufacturer's instructions and CRI 104 (Commercial).
   8.1. Blend carpet from different cartons to ensure minimal variation in color match.
9. Cleaning and Protection: Clean and vacuum carpet surfaces. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

SECTION 099123 - INTERIOR PAINTING

1. Submittals: Provide product data and samples for each type and color.
2. Maintenance Materials: Furnish one extra gallon of each type and color.
3. Field Conditions: Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
   3.1. Do not apply paint when relative humidity exceeds 85 percent at temperatures less than 5 degrees F above the dew point, or to damp or wet surfaces.
4. Minimum Application Temperatures for Paints: 50 degrees F; unless required otherwise by manufacturer's instructions.
5. Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and applications, as demonstrated by manufacturer based on testing and field experience.
6. All finishes and substrates to receive paint shall be cleaned thoroughly and prepared per manufacturer's recommendation. Verify that surfaces are ready to receive work as instructed by the product manufacturer and report conditions that may affect proper application.
7. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
8. Touch-up damaged finishes after Substantial Completion.
9. Sheens: Provide the following unless otherwise noted:
   9.1. Flat: MPI gloss level 1; use this sheen for overhead surfaces.
   9.2. Satin: MPI gloss level 4; use this sheen at wood, cementitious or masonry substrates unless otherwise noted.
   9.3. Semi-gloss: MPI gloss level 5; use this sheen at metal substrates unless otherwise noted.

SCHEDULE: Provide two topcoats and one primer coat unless otherwise indicated.

Topcoats: Interior Latex Enamel
Application: Drywall Surfaces (Flat Ceilings and Eggshell Walls Unless Otherwise Noted)
PPG Paints Speedhide zero Latex, 6-4410XI Series
Sherwin-Williams ProMar 200 Zero VOC Interior Latex

Topcoats: Acrylic Enamel
Application: Metal Substrates, including HM doors and Frames (Semi-gloss)
PPG Paints Pitt-Tech Plus WB DTM Industrial Enamel, 90-1210 Series
Sherwin-Williams Pro Industrial DTM Acrylic, B66 Series

Topcoats: Acrylic Enamel
Application: Wood Substrates (Semi-gloss)
PPG Paints Speedhide zero Latex, 6-4410XI Series
Sherwin Williams Pro Industrial Acrylic, B66 Series

Primer: Latex Primer Sealer for Interior Drywall
PPG Paints Speedhide zero Interior Latex Sealer
Sherwin-Williams ProMar 200 Zero VOC Interior Latex Primer, B28 Series

Primer: Water Based Primer for Ferrous and Galvanized Metal
PPG Paints Pitt-Tech Plus DTM Industrial Primer, 90-912 Series
Sherwin-Williams Pro-Cryl Universal Waterbased Primer

Primer: Latex Primer for Interior Wood
PPG Paints Seal Grip Acrylic Primer, 17-921 Series
Benjamin Moore Fresh Start Acrylic Primer, 023
Sherwin-Williams Multi Purpose Primer Sealer B51W0453

WSU Science Hall Renovations

Science Hall: 5045 Cass Ave Detroit, MI 48202
WSU#: 005-428852

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale:

Drawing Title
SPECIFICATIONS

Drawing No:
AG11

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
A B C D E F G H I J K

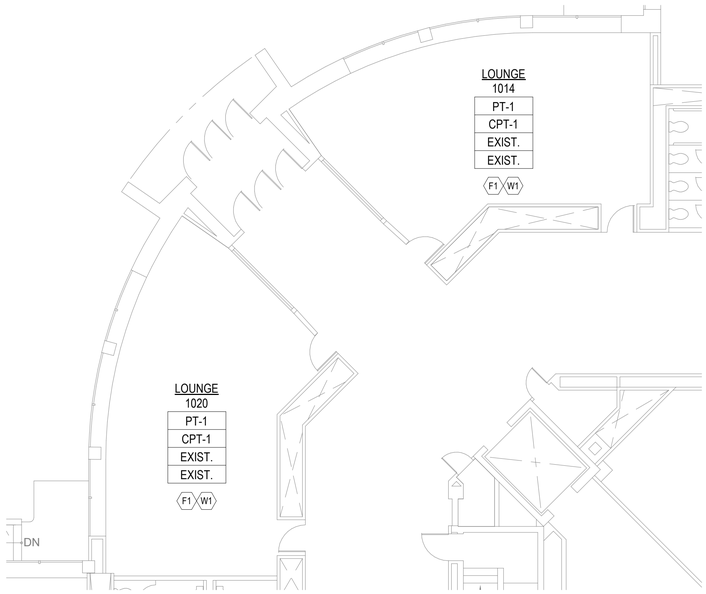
Sheet Size: 24" x 36"

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOORS		WALLS	CEILING	COMMENTS
		FLOOR	BASE			
1014	LOUNGE	CPT-1	EXIST.	PT-1	EXIST.	
1020	LOUNGE	CPT-1	EXIST.	PT-1	EXIST.	

MATERIAL INDEX

TAG	DESCRIPTION	MANUFACTURER	PRODUCT INFO	SPEC SECTION	LOCATION	NOTES
CPT-1	CARPET TILE	FORBO	COLLECTION: FLOTEX PLANKS; STYLE: TBD BY ARCHITECT; COLOR: TBD BY ARCHITECT; INSTALLATION: ASHLAR	096813	LOUNGE	
PT-1	PAINT	SHERWIN WILLIAMS	TBD BY ARCHITECT	099113	LOUNGE	



FLOOR PLAN LEGEND

EXISTING PARTITION

ROOM NAME
0000
DENOTES ROOM NAME AND NUMBER

WALL
FLOOR
BASE
CEILING
DENOTES TYPICAL DESIGNATED CEILING, WALL, FLOOR, AND WALL BASE FINISH MATERIAL. REFER TO FLOOR PLANS AND FINISH KEY FOR ADDITIONAL INFORMATION.

FLOOR PLAN NOTES

1. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION.

KEYNOTES

FLOORS:

F1 — REMOVE EXISTING CARPET, PREPARE FLOOR TO RECEIVE NEW CARPET PER SCHEDULE.

WALLS:

W1 — WHERE EXISTING WALLS ARE TO RECEIVE NEW PAINT, REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.

WSU Science Hall Renovations

Science Hall: 5045 Cass Ave Detroit, MI 48202
WSU#: 005-428852

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

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

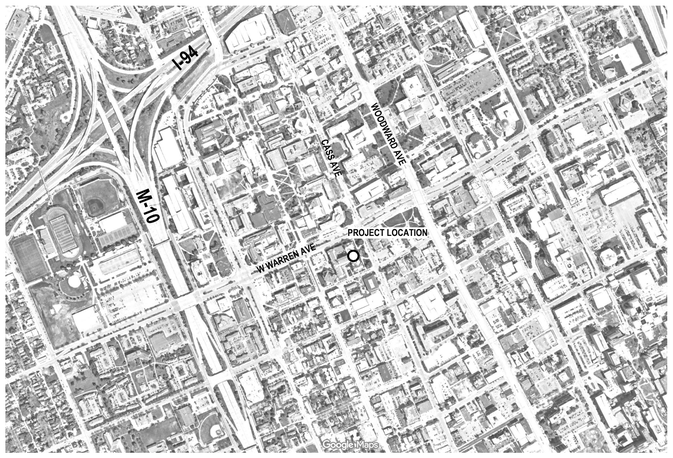
Drawing Title
SCIENCE HALL - LOUNGE FLOOR PLAN

Drawing No:
A101

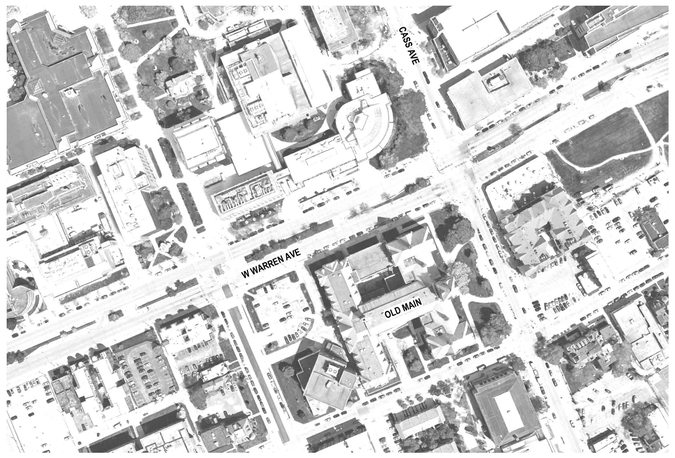
Sheet Size: 24" x 36"

WSU Old Main Renovations

BID SET
05/15/2026



PROJECT LOCATION



SITE MAP

PROJECT SUMMARY

PROJECT DESCRIPTION:

PROJECT IS A LEVEL 1 ALTERATION OF AN EXISTING BUILDING, ENCOMPASSING APPROXIMATELY 33,000 SQUARE FEET OF THE BASEMENT LEVEL OF OLD MAIN (4841 CASS AVE). RENOVATION INCLUDES INTERIOR FINISHES AND MINOR IMPROVEMENTS, REPLACEMENT LIGHTING AND PLUMBING FIXTURES, AND NEW FURNITURE. BUILDING CONSTRUCTION TYPE, USE GROUP, OCCUPANT LOAD, EGRESS COMPONENTS, AND FIRE RATINGS ARE NOT AFFECTED BY THE PROJECT. INTERIOR FINISH RATINGS SHALL BE MAINTAINED PER NFPA LIFE SAFETY CODE, STANDARD 101: MIN. CLASS A RATING FOR CEILING TILES; MIN. CLASS I RATING FOR CARPET OR FLOOR COVERING; MIN. CLASS C RATING FOR WINDOW TREATMENTS.

APPLICABLE CODES:

2021 MICHIGAN BUILDING CODE (APRIL 09, 2025)

2021 MICHIGAN REHAB CODE FOR EXISTING BUILDINGS (APRIL 09, 2025)

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

2017 MICHIGAN ACCESSIBILITY CODE

2021 MICHIGAN MECHANICAL CODE (MARCH 12, 2024)

2021 MICHIGAN PLUMBING CODE (MARCH 12, 2024)

2023 NATIONAL ELECTRICAL CODE W/ PART 8 AMENDMENTS (MARCH 12, 2024)

2023 MICHIGAN COMMERCIAL ENERGY CODE (APRIL 22, 2025)

2015 MICHIGAN UNIFORM ENERGY CODE (SEPTEMBER 20, 2017)

SHEET INDEX

WSU Old Main Renovations

Old Main: 4841 Cass Ave
Detroit, MI 48202
WSU#: 001-428506

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www.imegcorp.com

Key Plan

Registration Seal

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale:

Drawing Title
COVER

Drawing No:
AG01

Sheet Size: 24" x 36"

ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
AC	ACOUSTIC/ACOUSTICAL
A/C	AIR CONDITIONING
ACC	ACCESS
ACH	AIR CONDITIONING UNIT
ADD	ADDENDUM
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM/AL	ALUMINUM
&	AND
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
@	AT
AUTO	AUTOMATIC
AVG	AVERAGE
BD	BOARD
BF	BARRIER FREE
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK/BLOCKING
BLVD	BOULEVARD
BM	BEAM/BENCHMARK
BRG	BEARING
BTU	BRITISH THERMAL UNIT
C/C	CENTER TO CENTER
CEM	CEMENT
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CH	COAT HOOK
CIP	CAST IRON PIPE/CAST IN PLACE
CIR	CIRCLE/CIRCULAR
CJ	CONTROL JOINT
CL	CENTERLINE/CLASS
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT/COMPANY
COL	COLUMN
COMP	COMPOSITION/COMPOSITE
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUE/CONTINUOUS
CORR	CORRIDOR/CORRUGATED
CP	CONTROL PANEL
CTR	CENTER/CENTERED
CW	COLDWATER
CY	CUBIC YARD
DB	DECIBEL
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DP	DAMPPROOFING
DR	DOOR/DRAIN/DINING ROOM
DRN	DRAIN
DS	DOWN SPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
EIE	END TO END
EF	EACH FACE/EXHAUST FAN
EG	EXHAUST GRILLE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL/ELEV	ELEVATION/ELEVATOR
ELEC	ELECTRIC/ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE/ENCLOSED
ENTR	ENTRANCE/ENTRY
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL/EQUIVALENT
EQUIP	EQUIPMENT
EST	ESTIMATE
ETC	ETCETERA
EW	EACH WAY
EX	EXPOSED
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	DEGREES FAHRENHEIT
FA	FIRE ALARM
FAB	FABRICATED
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
F/F	FACE TO FACE/FINISH TO FINISH
FFE	FINISH FLOOR ELEVATION
FF&E	FIXTURES, FURNISHINGS & EQUIPT.
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH/FINISHED
FIN FLR/FF	FINISH FLOOR
FIXT	FIXTURE
FLASH	FLASHING
FLG	FLOORING/FLASHING/FLANGE
FLR	FLOOR
FLUOR	FLUORESCENT
FPM	FEET PER MINUTE
FPR	FIREPROOF/FIREPROOFING
FR	FIRE RETARDANT
FRM	FRAME
FS	FULL SIZE
FT	FEET/FOOT
FTG	FOOTING
FURN	FURNISH/FURNISHED
FURR	FURRING/FURRED
FVC	FIRE VALVE CABINET
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR / GYPSUM BOARD
GC	GENERAL CONTRACTOR
GF	GROUND FACE
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS/GRID LINE
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDWD	HARDWOOD
HEX	HEXAGON
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT/HORSE POWER
HR	HOUR
HT	HEIGHT
H/V	HEATING AND VENTILATION
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
ID	IDENTIFICATION
IE	INVERT ELEVATION
IN or "	INCH/INCHES
INCL	INCLUDE/INCLUDING
INFO	INFORMATION
INSUL	INSULATATE/INSULATION
INT	INTERIOR/INTERNAL
JB	JUNCTION BOX/JOINT BACKER
JC	JANITOR CLOSET
JR	JUNIOR
K	KIP (1000#)
KD	KNOCK DOWN
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE
LAB	LABORATORY
LAM	LAMINATE/LAMINATED
LAV	LAVATORY
LF	LINEAR FEET/FOOT
LG	LONG
LH	LEFT HAND
LHRB	LEFT HAND REVERSE BEVEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LP	LIGHTING PANEL/LOW POINT
LT	LIGHT/LAUNDRY TRAY
LTG	LIGHTING
LV	LOW VOLTAGE
LW	LIGHT WEIGHT
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
mm	MILLIMETER
MO	MASONRY OPENING
MTG	MEETING
MTL	METAL/METTALIC
MULL	MULLION
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO or #	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OUTSIDE AIR/OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER/OUTSIDE DIMENSION
OF	OUTSIDE FACE DIMENSION
OFF	OFFICE
OH	OPPOSITE HAND/OVERHEAD
OPG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PA	PUBLIC ADDRESS
PASS	PASSAGE/PASSENGER
PBD	PARTICLE BOARD
PC	PIECE/PIECES/PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PRECAST CONCRETE PANEL
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PAGE
PKG	PARKING
PL	PLATE/PROPERTY LINE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLWD	PLYWOOD
POL	POLISHED
POS	POSITION/POSITIVE
PREFAB	PREFABRICATED
PROJ	PROJECT/PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYLCLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
QTR	QUARTER
R	RISER
RAD or R	RADIUS
RC	RAIN CONDUCTOR
RCP	REFLECTED CEILING PLAN
RD	ROAD/ROOF DRAIN
REBAR	REINFORCEMENT BAR
RECV	RECEIVE/RECEIVING
REF	REFER/REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED/REINFORCE/MENT
REQD	REQUIRED
REV	REVISED/REVISION
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
S	SOUTH/STORM/SINK
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
S	SOUTH/STORM/SINK
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SD	SUPPLY DUCT/DIFFUSER
SECT	SECTION
SF	SQUARE FEET/SUPPLY FAN
SHR	SHOWER
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
SS	STAINLESS STEEL
ST	STREET
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STOR	STORAGE
STRL	STRUCTURAL
SUB	SUBSTATION
SURF	SURFACE/SURFACING
SW	SWITCH
SYM	SYMBOL/SYMMETRICAL
SYS	SYSTEM
T	THERMOSTAT/TREAD
TAN	TANGENT
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TEST BOARING/TOWEL BAR
TBD	TACKBOARD/TO BE DETERMINED
TD	TRENCH DRAIN
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE/TEMPORARY/TEMPERED
THK	THICK/THICKNESS
THR	THRESHOLD
THRU	THROUGH/THROUGHOUT
TOS	TOP OF STEEL/TOP OF SLAB
TP	TANGENT POINT
TRAN	TRANSOM/TRANSFORMER
TS	TUBE SECTION/TUBE STEEL/
TV	TELEVISION
TW	THROUGH WALL
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VAC	VACUUM
VAR	VARIABLE/VARIES
VENT	VENTILATE/VENTILATION
VERT	VERTICAL/VERTICALLY
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VR	VAPOR RETARDER
W	WIDE/WIDTH/WEST/WASTE/WATTS
W/	WITH
WC	WATER CLOSET
WD	WOOD
WL	WORKING LINE
WM	WATER METER
WO	WINDOW OPENING
W/O	WITHOUT
WP	WATERPROOF/WEATHERPROOF
WP	WORKING POINT
WT	WEIGHT/WATERTIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WGL	WIRE GLASS
YD	YARD
YR	YEAR

DRAWING SYMBOLS

ROOM NAME / NUMBER

ROOM NAME
101

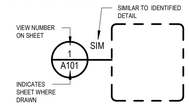
VIEW NAME / NUMBER

View Name | 1/8" = 1'-0" | 1

NEW COLUMN GRID

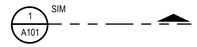
EXISTING COLUMN GRID

DETAIL / PLAN CALLOUT

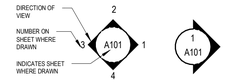


NORTH ARROW

SECTION INDICATION



ELEVATION INDICATION



LEVEL INDICATION

REVISION CLOUD IDENTIFICATION

DOOR IDENTIFICATION

OPENINGS (DOOR & BORROWED LIGHT) SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE OPENINGS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL OPENING REQUIRED.

101 / 101A / 101B FOR NUMBER NEEDED

WINDOW IDENTIFICATION

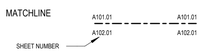
WALL IDENTIFICATION

DESCRIPTION STARTS AT WALL SURFACE DESIGNATED

CEILING HEIGHT

DIMENSION LINE

MATCHLINE



MATERIAL SYMBOLS

- CONCRETE SECTION
- PRECAST CONCRETE SECTION
- CMU
- CMU SECTION
- MASONRY VENEER (SOLDIER COURSE)
- MASONRY VENEER
- MASONRY SECTION
- ALUMINUM
- STEEL
- GLASS
- ASPHALT SHINGLES
- EARTH
- GRASS
- RIGID INSULAITON (SECTION)
- EXTRUDED POLY
- MINERAL WOOL
- BATT INSULATION
- EXPANDED POLY
- PLYWOOD SECTION
- WOOD (ROUGH)
- FINISH WOOD
- ACT LAY-IN (2X2)
- ACT LAY-IN (2X2)
- GYPSUM BOARD
- CUT STONE
- GROUT

WSU Old Main Renovations

Old Main: 4841 Cass Ave
Detroit, MI 48202
WSU#: 001-428506

INTOTO STUDIO

OWNER
DESIGN & CONSTRUCTION SERVICES
WAYNE STATE UNIVERSITY
5454 Cass Ave
Detroit, MI 48202
313-577-4310 phone
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ARCHITECT
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MEP ENGINEER
IMEG
33533 W. Twelve Mile Road, Suite 200
Farmington Hills, MI 48331
248-344-2800 phone
www.imegcorp.com

Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale: As indicated

Drawing Title
GENERAL NOTES

Drawing No:
AG02

Sheet Size: 24" x 36"

GENERAL REQUIREMENTS

SECTION 011000 - SUMMARY

1. The scope of work includes: renovation of a portion of Old Main Basement level, and Science Hall Level 01 lounges.
2. Low Voltage Work: comply with WSU C&IT standards: https://tech.wayne.edu/docs/wsu_comm_standards-12182020.pdf
3. Construction Operations: Limited to areas noted on Drawings.
4. Provide access to and from site as required by law and by Owner:
   5.1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   5.2. Do not obstruct roadways, sidewalks, or other public ways without permit.
5. Visit site, check facilities and conditions, verify all utility connections, and take all items into consideration in bid.
6. Systems are to be complete and workable in all respects, placed in operation and properly adjusted.
7. The Contractor shall be solely responsible for construction means, methods, sequences of construction, and the safety of workers.
8. Conform to all applicable codes and government regulations.
9. Obtain permits and pay all fees. Arrange for all required inspections and approvals.

SECTION 012000 - PRICE AND PAYMENT PROCEDURES

1. Schedule of Values: Use AIA G703 unless otherwise stipulated in the Agreement or required by Owner.
   1.1. Submit within 15 days after executing Owner-Contractor Agreement unless otherwise stipulated in Bid Documents or requested by Owner.
2. Applications for Progress Payment: Use AIA G702 unless otherwise stipulated in the Agreement or required by Owner.
   2.1. Payment Period: As stipulated in Owner-Contractor Agreement.
   2.2. Use dala from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for products and materials stored on site.
   2.3. List each Change Order as a separate line item with Change Order number and dollar value.
   2.4. Include conditional release of liens from each Subcontractor and vendor for current month's payment application, and unconditional release of liens from each Subcontractor and vendor for the previous month's payment application.
3. Modification Procedures:
   3.1. Supplemental Instructions: For minor modifications not involving an adjustment to the Contract Sum or Contract Time; Architect will review all proposed changes with the Owner before issuing instructions directly to Contractor.
   3.2. Construction Change Directive: For other required modifications, Architect will issue a document signed by Architect and Owner instructing Contractor to proceed with the modification, for subsequent inclusion in a Change Order.
   3.3. Proposal Request: For modifications for which advance pricing is desired, Architect will issue a document which includes a detailed description of a proposed modification with supplementary or revised drawings and specifications, a modification in Contract Time for executing the modification with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within 10 days.
   3.4. Change Order: Contractor may propose a change by submitting a request for change order or modification to Architect, describing the proposed change and its full effect on the Work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation and a statement describing the effect on Work by separate or other contractors.
      3.4.1. Substantiation of Costs: Provide full information required for evaluation.
   3.5. Execution of Change Orders: Contractor will issue Change Orders for signatures of Owner and Architect.
      3.5.1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
      3.52. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
4. Application for Final Payment:
   4.1. Application for Final Payment will not be considered until the following have been accomplished:
      4.1.1. Closeout procedures have been completed.
      4.1.2. As-Built and Record Drawings have been submitted and approved by Owner.
      4.1.3. Authority Having Jurisdiction has issued a Certificate of Occupancy.
      4.1.4. Owner and Architect have accepted the Work.

SECTION 012500 - SUBSTITUTION PROCEDURES

1. Base equipment manufacturer, model, and capacity of equipment are listed on the drawings or in this specification. Any other manufacturer is considered a substitution.
2. Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
   2.1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
   2.2. Agrees to provide the same warranty for the substitution as for the specified product.
   2.3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
   2.4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
   2.5. Waives claims for additional costs or time extension that may subsequently become apparent.
   2.6. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
3. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
   3.1. Note explicitly any non-compliant characteristics.
4. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response, including project information, description of substitution and why specified item cannot be provided, differences between items, description of how substitution affects other work, comparative product and performance data, visual effect, warranties, samples, and changes to contract time or contract sum.
   4.1. Form: Use CSI Form 13.1A or other form approved by Architect
5. Substitutions During Construction: Submit request for Substitution for Convenience immediately upon discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
6. Substitutions will not be considered under one or more of the following circumstances:
   6.1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
   6.2. Without a separate written request.
   6.3. When acceptance will require revisions to the Contract Documents.
7. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

SECTION 013000 - ADMINISTRATIVE REQUIREMENTS

1. RFIs: Prepare an RFI immediately upon discovery of a need for interpretation of the Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
   1.1. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
   1.2. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.
   1.3. Prepare and maintain a tabular log of RFIs for the duration of the project.
   1.4. Review Time: Architect will respond and return RFIs within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
   1.5. Responses; Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.
2. Submittals: When the following are specified in individual sections, submit them for review: Product data, shop drawings, samples for selection, samples for verification, delegated engineering design documentation and calculations, and other documents indicated.
   2.1. Submit a single transmittal, sequentially numbered, for related items.
   2.2. Apply contractor's stamp, signed or initialed, certifying that review, approval, and coordination of information is in accordance with the Contract Documents.
   2.3. For each submittal for review, allow 14 days excluding delivery time to and from the Contractor. For sequential reviews involving Architect's consultants, Owner, or another affected party, allow an additional 7 days.
   2.4. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.
   2.5. Submittals not requested will be recognized, and will be returned "Not Reviewed".
3. Provide a comprehensive photographic survey of the site and building conditions prior to the commencement of Work. Photos shall be of high resolution and sufficiently detailed to determine existing conditions, such as cracked concrete, chipped steps, broken or cracked windows, and other general conditions in areas that will be affected by the movement of workers or materials.
   3.1. Transmit photographs in electronic form to the Owner and Architect prior to the commencement of Work.

SECTION 014000 - QUALITY REQUIREMENTS

1. Designer Qualifications: Where professional engineering design services and design data submittals are specifically required of Contractor by Contract Documents, provide services of a Professional Engineer experienced in design of this type of work and licensed in the State in which the project is located.
2. Reference Standards: For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of this standard, except when more rigid requirements are specified or are required by applicable codes.
3. Testing: As indicated in individual specifications sections, Owner or Contractor shall employ and pay for services of an independent testing agency to perform specified testing.
   3.1. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.
   3.2. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.
4. Control of Installation:
   4.1. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
   4.2. Comply with manufacturers' instructions, including each step in sequence.
   4.3. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
   4.4. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
   4.5. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.
   4.6. It is the contractor's responsibility to check and conform to field conditions and manufacturer's requirements prior to starting work.

SECTION 015000 - TEMPORARY FACILITIES

1. Water Service: Use water from Owner's existing water system without metering and without payment of use charges.
2. Electric Power Service: Use electric power from Owner's existing system without metering and without payment of use charges. Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241. Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
3. Tests and Inspections: arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.
4. Field Offices: Provide field office(s) in location acceptable to Owner.
5. Provide Fire Extinguishers: Hand carried, portable, and UL rated. Provide class and extinguishing agent as indicated or a combination of extinguishers of NFPA-recommended classes for exposures. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent and size required by location and class of fire exposure.
6. Sewers and Drainage: If sewers are available, provide temporary connections to remove effluent that can be discharged lawfully. If neither sewers nor drainage facilities can be lawfully used for discharge of effluent, provide containers to remove and dispose of effluent off-site in a lawful manner. After heavy use, restore nonnal conditions promptly.
7. Sanitary Facilities: Coordinate use of existing facilities with Owner. Restore facilities to same or better condition after Project completion.
8. Safety Facilities: Provide safety showers, eyewash fountains, and similar facilities for convenience, safety, and sanitation of personnel.
9. Electric Distribution: Provide receptacle outlets adequate for connection of power tools end equipment. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length- voltage ratio.
10. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
11. Project Identification and Temporary Signs: Prepare project identification and other signs in sizes and locations approved by owner. Install signs where indicated to inform public and persons seeking entrance to project. Do not permit installation of unauthorized signs.
12. Security Enclosure and Lockup: Install substantial and serure temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
13. Barricades, Warning Signs, and lights: comply with standards and code requirements for erecting structurally adequate barricades. Paint with appropriate colors, graphics, and warning signs or lights, as needed, to inform personnel and public of possible hazard.

SECTION 016000 - PRODUCT REQUIREMENTS

1. New Products: Provide new products, free from defects, unless specifically required or permitted by the Contract Documents.
2. Product Selections:
   2.1. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with requirements for comparable products to obtain approval for use of an unnamed product.
   2.2. Submit additional documentation, when requested by Architect, to establish equivalency of proposed products. Evaluation of "comparable" products and "or equal" products are by the Architect, whose determination is final.
   2.3. Basis-of-Design (BOD) Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "Basis of Design," including make or model number or other designation. In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers.
   2.4. Comparable Product: Product that is demonstrated and approved by Architect through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
3. Provide full warranty on all materials, equipment and workmanship for one (1) year from date of acceptance, unless noted otherwise. Repair or replace without charge to the Owner all items found defective during the warranty period.
4. Transportation and Handling:
   4.1. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
   4.2. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
   4.3. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
   4.4. Transport and handle products in accordance with manufacturer's instructions.
   4.5. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
   4.6. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
   4.7. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
   4.8. Arrange for the return of packing materials, such as wood pallets, where economically feasible.
5. Storage and Protection:
   5.1. Store and protect products in accordance with manufacturers' instructions.
   5.2. Store with seals and labels intact and legible.
   5.3. Store sensitive products in weathertight climate-controlled enclosures in an environment favorable to product.
   5.4. Provide off-site storage and protection when site does not permit on-site storage or protection.
   5.5. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
   5.6. Do not store products directly on the ground.
   5.7. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
   5.8. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
   5.9. Prevent contact with material that may cause corrosion, discoloration, or staining.
   5.10. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
   5.11. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

SECTION 017000 - EXECUTION AND CLOSEOUT REQUIREMENTS

1. Project Requirements:
   1.1. Use of explosives is not permitted.
   1.2. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
   1.3. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations. Noisy construction activities shall be coordinated as to acceptable times with Owner.
   1.4. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
   1.5. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.
   1.6. Pollullon Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.
2. Coordination:
   2.1. Coordinate scheduling, submittals, and work of the various sections of the specifications to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
   2.2. Notify affected utility companies and comply with their requirements.
   2.3. Arrange for and obtain Owner's permission for any service shutdowns required under this contract.
   2.4. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
   2.5. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
   2.6. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
   2.7. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.
3. Examination:
   3.1. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
   3.2. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
   3.3. Examine and verify specific conditions described in individual specification sections.
   3.4. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
   3.5. Verify that utility services are available, of the correct characteristics, and in the correct locations.
   3.6. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.
4. Preparation:
   4.1. Clean substrate surfaces prior to applying next material or substance.
   4.2. Seal cracks or openings of substrate prior to applying next material or substance.
   4.3. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.
5. Cutting and Patching:
   5.1. Whenever possible, execute the work by methods that avoid cutting or patching.
   5.2. All cutting and patching of the building construction as required shall be in a neat and professional manner.
   5.3. Neatly saw cut all rectangular openings, set sleeve through opening, and finish patch or provide trim flange around opening.
   5.4. Core drill and sleeve all round openings.
   5.5. Do not cut any structural components without Architect's approval.
   5.6. Patch and finish to match adjacent areas that have been cut, damaged or modified as a result of the installations of the mechanical or electrical equipment. Fire stop all penetrations of fire rated construction in a code approved manner.
6. Progress Cleaning:
   6.1. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
   6.2. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to endosing the space.
   6.3. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
   6.4. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site. Do not burn or bury.
7. Protection of Installed Work:
   7.1. Protect installed work from damage by construction operations.
   7.2. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
   7.3. Remove protective coverings when no longer needed. Reuse or recycle coverings if possible.
8. System Startup:
   8.1. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
   8.2. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
   8.3. Verify that wiring and support components for equipment are complete and tested.
   8.4. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
   8.5. Adjust operating products and equipment to ensure smooth and unhindered operation.
9. Demonstration and Training: Demonstrate operation and maintenance of products to Owner's personnel two weeks prior to date of Substantial Completion.
10. Final Cleaning:
    10.1 Execute final cleaning prior to final project assessment.
    10.2 Use cleaning materials that are nonhazardous.
    10.3. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment
    10.4. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
    10.5. Clean filters of operating equipment.
    10.6. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site. Dispose of in legal manner. Do not burn or bury.

SECTION 017800- CLOSEOUT SUBMITTALS

1. Closeout Procedures:
   1.1. Make submittals that are required by governing or other authorities.
   1.2. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.
   1.3. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.
   1.4. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.
   1.5. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.
   1.6. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.
   1.7. Complete items of work determined by Architact listed in executed Certificate of Substantial Completion.
2. Provide administrative and procedural requirements for contract closeout, including, but not limited to, the following:
   2.1. Inspection procedures and reports.
   2.2. As-built and Record Drawings.
   2.3. Operation and maintenance manuals.
   2.4. Warranties and bonds.
   2.5. Spare parts/maintenance materials
   2.6. Certificate of substantial completion.
   2.7. Keys.

DEMOLITION

SECTION 024100 - DEMOLITION

1. Scope: As indicated in Drawings.
2. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
   2.1. Obtain required permits. Do not obstruct roadways or sidewalks without permit.
   2.2. Comply with applicable requirements of NFPA 241.
   2.3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed. Do not allow worker or public access within range of potential collapse of unstable structures.
   2.4. Provide, erect, and maintain temporary barriers and security devices.
   2.5. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
   2.6. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
3. Protect existing structures and other elements that are not to be removed.
4. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner. Hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.
5. Hazardous Materials: Comply with 29 CFR 1926 and state and local regulations.
6. Coordinate work with utility companies. Notify before starting work and comply with their requirements. Obtain required permits.
7. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
8. Locate and mark utilities to remain. Mark using highly visible tags or flags, with identification of utility type. Protect from damage due to subsequent construction, using substantial barricades if necessary.
9. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
10. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
    10.1. Verify that construction and utility arrangements are as indicated.
    10.2. Report discrepancies to Architect before disturbing existing installation.
    10.3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition
11. Separate areas in which demolition is being conducted from other areas that are still occupied.
    11.1. Provide, erect, and maintain temporary dustproof partitions of construction as required.
12. Ensure that work area maintains negative pressure. Negative pressure shall not be achieved by using the return air path of an existing or new permanent air handling unit unless the existing ductwork is scheduled for demolition. If necessary, provide dedicated air handling equipment and ducting to provide and maintain negative pressurization throughout demolition and the duration of construction activities, or until such time as the Owner agrees the Work Area presents no recognized hazard to surrounding environments or occupants.
13. Remove existing work as indicated and as required to accomplish new work.
    13.1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete. Replace with new construction as specified.
    13.2. Remove items indicated on drawings.
14. Protect existing work to remain.
    14.1. Prevent movement of structure. Provide shoring and bracing if necessary.
    14.2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
    14.3. Repair adjacent construction and finishes damaged during removal work.
    14.4. Patch as specified for patching new work.
15. Salvage items required by owner. Conform with owner's specific requirements for salvaging certain products, devices, and hardware.

WOOD, PLASTICS, & COMPOSITES

SECTION 061000 - ROUGH CARPENTRY

1. General: each piece of lumber shall bear the official trademark and grade of the manufacturer's association or inspection bureau under which it was manufactured and graded. Lumber shall be seasoned, surfaced four sides and kiln or air dried to moisture content specified in the association's rules, except that moisture content shall not exceed 19 percent.
2. Furring, Grounds, and Similar Use: Western Wood Products Association (WWPA) "Standard", "Number 2 Common" or better douglas fir-larch, hem-fir, pine, engelmann spruce, cedar; or Southern Pine Inspection Bureau (SPIB) Number 2 southern pine.
3. Nailers, Blocking, Framing, Rough Bucks, and Rough Lumbar Not Otherwise Specified: Western Wood Products Association (WWPA) "Utility", Number 3 or better douglas fir, hem-fir, lodgepole pine, western cedars; or Southern Pine Inspection Bureau (SPIB) Number 2 KD southern pine.
4. Other Applications:
   4.1. Plywood Concealed From View But Located Within Exterior Enclosure: PS 1, C-C Plugged or better, Exterior grade.
   4.2. Plywood Exposed to View But Not Exposed to Weather: PS 1, A-D, or better.
   4.3. Other Locations: PS 1, C-D Plugged or better.
5. Fasteners and Anchors:
   5.1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
   5.2. Drywall Screws: Bugle head, hardened steel, power driven type, length three limes thickness of sheathing.
   5.3. Nails, Brads, and Staples: ASTM F 1667.
   5.4. Power-Driven Fasteners: NES NER-272.
   5.5. Wood Screws: ASME B18.6.1.
6. Construction Adhesives: Formulation complying with ASTM D 3498 that is approved for use with type of construction panel indicated by manufacturers of both adhesives and panels.
7. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
   7.1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements. Treat the following:
      7.1.1. All interior rough carpentry items.
   7.2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards. Treat the following:
      7.2.1. Lumber in contact with masonry or concrete.
      7.2.2. Lumber less than 18 inches above grade.
      7.2.3. Other locations as indicated.

SECTION 062000 - FINISH CARPENTRY

1. Submittals: Provide samples of finish plywood, wood trim, and otherfinish carpentry items.
2. Protection: Protect work from moisture damage. Slack wood materials flat with spacers between each bundle to provide air circulation. Deliver interior finish carpentry materials only when environmental conditions meet requirements specified for installation areas.
3. Field Conditions: Environmental Limitations: Do not deliver or install interior finish carpentry materials until building is enclosed and weatherproof, wet work in space is completed and nominally dry, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
4. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
5. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
6. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by applicable code.
7. Interior Trim and Moldings for Opaque Finish (Painted Finish):
   7.1. Species and Grade: Yellow poplar, paint grade.
8. Sheet Materials:
   8.1. Softwood Plywood, Not Exposed to View: Any face species; PS 1 Grade A-B, glue type as recommended for application.
   8.2. Hardwood Plywood: Paint Grade, closed grained, birch veneer, plain sawn, veneer core; HPVA HP-1, Front Face Grade A, Back Face Grade 1, glue type as recommended for application.
9. Adhesive for Purposes Other Than Laminate Installation: Suitable for the purpose, not containing formaldehyde or other volatile organic compounds.
10. Fasteners: Of size and type to suit application; nonferrous metal or hot dip galvanized finish in concealed locations on inside face of exterior walls and elsewhere as required for corrosion resistance and stainless steel finish in exposed locations.
11. Installation:
    11.1. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
    11.2. Set and secure materials and components in place, plumb and level.
    11.3. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.
    11.4. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.
    11.5. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use pieces less than 60 inches long, except where shorter single-length pieces are necessary.
    11.6. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.

WSU Old Main Renovations

Old Main: 4841 Cass Ave
Detroit, MI 48202
WSU#: 001-428506

INTOTO STUDIO

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale:

Drawing Title
SPECIFICATIONS

Drawing No:
AG11

Sheet Size: 24" x 36"

FINISHES

SECTION 092116 - GYMSUM BOARD ASSEMBLIES

1. Submittals: Provide product data for gypsum board products, accesories and non-loadbearing metal stud framing.
2. Gypsum Board Assemblies, General: Provide completed assemblies complying with ASTM C840 and GA-216.
3. Interior Partitions, Indicated as Acoustic: Provide completed assemblies having STC values as scheduled in Drawings, calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.
4. Non-Load bearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of all framing of L/360 at 5 psf.
   4.1. Protective Coaling: ASTM A 653/A 653M, G40, hot-dip galvanized unless otherwise indicated. Protective coatings with designation G40E or G40 EQ coating or the like are not allowed.
5. Framing Members: Provide products manufactured by Clarkwestern Deitrich, Jaimes Industries, MBA, State Building Products, The Steel Nelwork, Steel Construction Systems, SCAFCO, or Phillips Manufacturing.
   5.1. Steel Studs and Runners: ASTM C 645, 0.030-inch minimum base-metal thickness, unless otherwise indicated.
   5.2. Furring: Hat-shaped sections, minimum depth of 7/8 inch (22 mm), 0.033-inch minimum base-metal thickness.
   5.3. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated, 0.033-inch minimum base-metal thickness.
   5.4. Cold-Rolled Channel Bridging: Steel, 0.0538-inch minimum base-metal thickness, with 11/2-inch depth and minimum 1/2-inch- wide flanges.
   5.5. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection using slotted holes, screws and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition.
      5.5.1. Structural Performance: Maintain lateral load resistance and vertical movemenl capacity required by applicable code, when evaluated in accordance with AISI S100-12.
6. Acceptable Gypsum Manufacturers: USG, CertainTeed, National Gypsum, or Georgia Pacific.
7. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
   7.1. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. Mold resistant board is required in areas subject to wetting, steam, or high humidity.
   7.2. Fire-Rated Assemblies: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
8. Acoustic Insulation: ASTM C665; preformed glass or mineral fiber, friction fit type, unfaced.
9. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
10. Finishing Accessories: ASTM C1047, galvanized steel or rolled zinc, unless noted otherwise. Provide types as detailed or as required for finished appearance. In addition to conventional corner bead and control joints, provide U-bead, L-bead, and LC-bead at exposed panel edges.
11. Decorative Trim and Reveals: Profiles as indicated in Drawings.
12. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
13. Installation:
    13.1. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions. For gypsum board assemblies, also comply with requirements in ASTM C 840 that apply to framing installation.
    13.2. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
    13.3. Where studs or furring members are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
    13.4. Blocking: Install mechanically fastened steel sheet or channel blocking or wood blocking for support of: Wall mounted cabinets or equipment, plumbing fixtures, toilet partitions and accessories, wall mounted door hardware, and other items indicated in Drawings.
    13.5. Board Installation: Comply with ASTM C840 and manufacturers instructions. Install to minimize butt end joints with ends occurring over firm bearing.
    13.6. Acoustic Insulation and Sealants: Install in accordance with manufacturer's instructions to achieve specified ratings.
    13.7. Provide control joints in walls at not more than 30' spacing and in soffits not exceeding 50' spacing, or as indicated on the drawings.
14. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
    14.1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
    14.2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
    14.3. Level 3: Walls to receive textured wall finish.
    14.4 Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
    14.5. Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.

SECTION 095100 - ACOUSTIC CEILINGS

1. Submittals: Provide product data and samples.
2. Field Conditions: Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after installation.
3. Acoustical Units, General: ASTM E1264, Class A.
4. Acoustical Panels: As scheduled.
5. Suspension System: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
   5.1. Color: As selected by Architect.
   5.2. Perimeter Moldings: Same material and finish as grid.
6. Support Channels and Hangers: Galvanized steel; size and type to suite application and ceilings system flatness requirement specified.
7. Wire for Hangers and Ties: ASTM A641, Class 1 zinc coating, soft annealed, with a yield stress load of at least three times design load, but not less than 12 gauge.
8. Touch-up Paint: Type and color to match acoustical and grid units.
9. Installation of Suspension System: Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section. Rigidly secure system for a masimum deflection of 1:360.
   9.1. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size, unless otherwise indicated.
   9.2. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.
   9.3. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
   9.4. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
10. Installation of Acoustical Units: Install acoustical units in accordance with manufacturer's instruction. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

SECTION 096513 - RESILIENT WALL BASE

1. Submittals: Provide product data and samples.
2. Resilient Base: STM F1861, Rubber; top set Style B, Cove.
   2.1. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   2.2. Height: 4 inch.
   2.3. Thickness: 0.125 inch.
   2.4. Finish: Satin.
   2.5. Color: As scheduled.
3. Primers, Adhesives, and Seam Sealers: Waterproof; types recommended by flooring manufacturer.
4. Preparation: Prepare substrates as recommended by manufacturer.
5. Wall Base Installation: Miter internal comers. At external corners, "V' cut back of base strip to 2/3 of its thickness and fold. Install in longest lengths possible; maintain minimum dimension of 18 inches between joints.
6. Cleaning and Protection: Remove excess adhesive from base and wall surfaces without damage. Clean in accordance with manufacturer's written instructions.

SECTION 096813 - CARPET TILE

1. Submittals: Provide product data and samples.
2. Maintenance Materials: Furnish extra tile equal to five percent of total installed units.
3. Field Conditions: Store materials in area of installation for minimum period of 24 hours prior to installation. Comply with CRI 104 for temperature, humidity, and ventilation limitations.
   3.1. Do not install carpel tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive, and concrete slabs have a pH range recommended by carpet tile manufacturer.
4. Tile Carpeting: Type as scheduled, manufactured in one color dye lot.
   4.1. Critical Radiant Flux: Minimum of 0.45 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
5. Accessories:
   5.1. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
   5.2. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.
6. Examination: Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
   6.1. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.
   6.2. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.
      6.2.1. Test in accordance with ASTM F710.
      6.2.2. Obtain instructions and install remedial products if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.
7. Preparation: Prepare floor substrates as recommended by flooring and adhesive manufacturers.
8. Installation, General: Starting installation constitutes acceptance of sub-floor conditions. Install carpet tile in accordance with manufacturer's instructions and CRI 104 (Commercial).
   8.1. Blend carpet from different cartons to ensure minimal variation in color match.
9. Cleaning and Protection: Clean and vacuum carpet surfaces. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

SECTION 099123 - INTERIOR PAINTING

1. Submittals: Provide product data and samples for each type and color.
2. Maintenance Materials: Furnish one extra gallon of each type and color.
3. Field Conditions: Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
   3.1. Do not apply paint when relative humidity exceeds 85 percent at temperatures less than 5 degrees F above the dew point, or to damp or wet surfaces.
4. Minimum Application Temperatures for Paints: 50 degrees F; unless required otherwise by manufacturer's instructions.
5. Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and applications, as demonstrated by manufacturer based on testing and field experience.
6. All finishes and materials to receive paint shall be cleaned thoroughly and prepared per manufacturer's recommendation. Verify that surfaces are ready to receive work as instructed by the product manufacturer and report conditions that may affect proper application.
7. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
8. Touch-up damaged finishes after Substantial Completion.
9. Sheens: Provide the following unless otherwise noted:
   9.1. Flat: MPI gloss level 1; use this sheen for overhead surfaces.
   9.2. Satin: MPI gloss level 4; use this sheen at wood, cementitious or masonry substrates unless otherwise noted.
   9.3. Semi-gloss: MPI gloss level 5; use this sheen at metal substrates unless otherwise noted.

SCHEDULE: Provide two topcoats and one primer coat unless otherwise indicated.

Topcoats: Interior Latex Enamel
Application: Drywall Surfaces (Flat Ceilings and Eggshell Walls Unless Otherwise Noted)
PPG Paints Speedhide zero Latex, 6-4410XI Series
Sherwin-Williams ProMar 200 Zero VOC Interior Latex

Topcoats: Acrylic Enamel
Application: Metal Substrates, including HM doors and Frames (Semi-gloss)
PPG Paints Pitt-Tech Plus WB DTM Industrial Enamel, 90-1210 Series
Sherwin-Williams Pro Industrial DTM Acrylic, B66 Series

Topcoats: Acrylic Enamel
Application: Wood Substrates (Semi-gloss)
PPG Paints Speedhide zero Latex, 6-4410XI Series
Sherwin Williams Pro Industrial Acrylic, B66 Series

Primer: Latex Primer Sealer for Interior Drywall
PPG Paints Speedhide zero Interior Latex Sealer
Sherwin-Williams ProMar 200 Zero VOC Interior Latex Primer, B28 Series

Primer: Water Based Primer for Ferrous and Galvanized Metal
PPG Paints Pitt-Tech Plus DTM Industrial Primer, 90-912 Series
Sherwin-Williams Pro-Cryl Universal Waterbased Primer

Primer: Latex Primer for Interior Wood
PPG Paints Seal Grip Acrylic Primer, 17-921 Series
Benjamin Moore Fresh Start Acrylic Primer, 023
Sherwin-Williams Multi Purpose Primer Sealer B51W0453

SPECIALTIES

SECTION 101400 - SIGNAGE

1. Submittals: Provide product data, samples, and signage schedule indicating types and locations of signs to be provided.
2. Accessibility Compliance: Signs are required to comply with ADA and CBC standards and applicable building codes, unless otherwise indicated. In the event of conflicting requirements, comply with the most comprehensive and specific requirements.
3. Code-Required Door and Room Signs: Provide all signs required by Authority Having Jurisdiction (AHJ) for building occupancy. Determine requirements and report to Owner and Architect prior to making specified submittals. Include cost of these signs in Contract Sum.
4. Sign Type: Flat signs with injection molded panel media as specified.
5. Provide "tactile" signage, with letters raised minimum 1/32 inch and Grade II braille.
6. Character Height: 1 inch
7. Wall Mounting: Double-sided tape adhesive, fully concealed.
   A. Mount at heights and locations indicated on drawings and in accordance with ADA and CBC.

SECTION 102800 - TOILET ROOM ACCESSORIES

1. Submittals: Provide product data and samples for each type.
2. Coordination: Coordinate the work of other sections to provide internal wall reinforcement as required for mounting.
3. General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
   A. Acceptable Manufacturers: American Specialties, Inc., Bradley Corporation, Georgia Pacific, or Bobrick.
   B. Provide all products from a single manufacturer.
4. Materials: Stainless Steel, Type 304, Satin Finish unless otherwise noted.
5. Back painting: Back paint components where contact is made with building finishes to prevent electrolysis.
6. Toilet Accessories: As Scheduled in Drawings
7. Under-Lavatory Pipe Covers: Insulate exposed drainage piping, including hot, cold, and tempered water supplies under lavatories or sinks to comply with ADA standards.
   A. Product Requirements: Smooth, non-absorbent, non-abrasive surface, 1/8-inch flexible PVC, having a flame spread index of 25 or less and smoke developed index of 450 or less when tested in accordance with ASTM E 84.
8. Installation: Install in accordance with manufacturer's instructions in locations indicated in Drawings and complying with ADA requirements.

TOILET ACCESSORY SCHEDULE

Soap Dispenser: (Owner provided)
Paper Towel Dispenser: (Owner provided)
Toilet Paper Dispenser: (Owner provided)
Sanitary Napkin Disposal: (Owner provided)

FURNISHINGS

SECTION 122400 - ROLLER WINDOW SHADES

1. Submittals: Provide product data, shop drawings, samples, and warranty.
2. Field Conditions: Do not install products under environmental conditions outside manufacturer's absolute limits.
3. Acceptable Manufacturers: Draper, Inc.; Hunter Douglas Architectural; MechoSahde Systems, Inc.; SWFcontract, a division of Springs Window Fashions, LLC. Furnish products produced by a single manufacturer and obtained from a single supplier.
4. Roller Window Shades: Fabric roller shades complete with mounting brackets, roller tubes, hembars, hardware and accessories.
   4.1. Type: Roll down, closed position is at window sill.
   4.2. Fabric Performance Requirements: 13.5 oz basketweave fabric.
      4.2.1. Openness Facor: 3%
      4.2.2. Flammability: Pass NFPA 701 large and small tests.
      4.2.3. Fungal Resistance: No Growth when tested according to ASTM G21.
   4.3. Roller Tubes: Extruded aluminum or galvanized steel. Sized for suitability for installation conditions, span, and weight of shades. Utilize extruded channel in tube to accept vinyl spline welded to fabric edge.
   4.4. Finish: Baked enamel; color from manufacturer's standards.
   4.5. Take-Up Roller: Manufacturer's standard roller tube pre-tensioned for winding lift cable in bottom-up type shades.
   4.6. Hembars: Manufacturer's standard concealed hembar, designed for weight requirements and adaptation to uneven surfaces, to maintain bottom of shade straight and flat. Flat profile with closed ends.
   4.7. Operation: Manual
5. Accessories:
   5.1. Fascias: Size as required to conceal shade mounting.
   5.2. Brackets and Mounding Hardware: As recommended by manufacturer for mounting configuration and span.
   5.3. Fasteners: Non-corrosive, and as recommended by shade manufacturer.
6. Fabrication: Field measure finished openings prior to ordering or fabrication. Fabricate shades to fit openings within tolerances specified in writing by manufacturer.
7. Examination: Examine finished openings for deficiencies that may preclude satisfactory installation.
8. Preparation: Prepare surfaces using methods recommended by manufacturers for achieving best results for substrate under the project conditions.
9. Installation, General: Install in accordance with manufacturer's instructions, using mounting devices as indicated.
   9.1. Adjust level, projection and shade centering from mounting bracket. Verify there is no telescoping of shade fabric. Ensure smooth shade operation.
10. Cleaning and Protection: Clean soiled shades and exposed components as recommended by manufacturer. Replace shades that cannot be cleaned to "like new" condition. Protect installed products from subsequent construction operations. Touch-up, repair or replace damaged products before Substantial Completion.

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale:

Drawing Title
SPECIFICATIONS

Drawing No:
AG12

Sheet Size: 24" x 36"

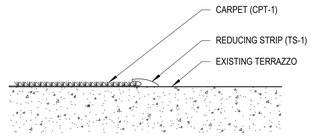
ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOORS		WALLS	CEILING	COMMENTS
		FLOOR	BASE			
0106	LECTURE	EXIST.	EXIST.	PT-1	EXIST.	
0116	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0134	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0151	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0145	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0143	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0137	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0129	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0121	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0111	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0105	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0103	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0159	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0165	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0171	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0174	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0162	CLASSROOM	EXIST.	EXIST.	PT-1	EXIST.	
0140	CORRIDOR	EXIST.	EXIST.	PT-1	AC1, AC2	REF. TO AREA PLANS AND RCP'S FOR LAYOUT
0120	MEN	EXIST.	EXIST.	EXIST.	EXIST.	
0130	WOMEN	EXIST.	EXIST.	EXIST.	EXIST.	
0150	CORRIDOR	EXIST.	EXIST.	PT-1	AC1	REF. TO AREA PLANS AND RCP'S FOR LAYOUT

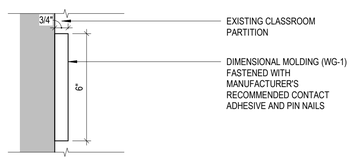
MATERIAL INDEX

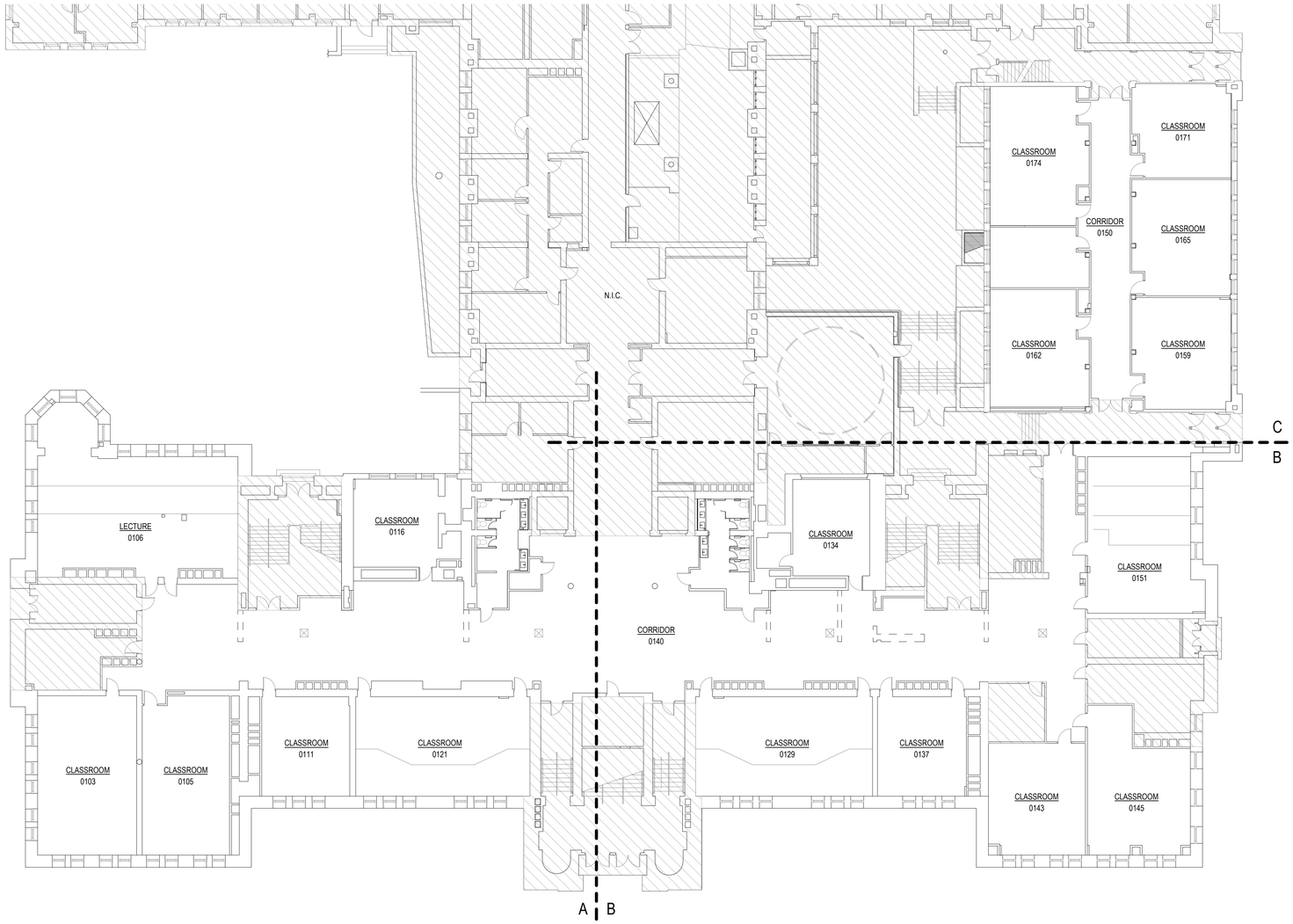
TAG	DESCRIPTION	MANUFACTURER	PRODUCT INFO	SPEC SECTION	LOCATION	NOTES
AC-1	ACOUSTICAL CEILING	ARMSTRONG	ULTIMA TEGULAR 2X2 ACOUSTIC CEILING TILE	095100	REF. A200 SERIES	
AC-2	ACOUSTICAL CEILING	ARMSTRONG	CIRRUS SECOND LOOK 2X4 ACOUSTIC CEILING TILE; PATTERN:III	095100	REF. A200 SERIES	
CPT-1	CARPET TILE	FORBO	COLLECTION: FLOTEX PLANKS; STYLE: TBD BY ARCHITECT; COLOR: TBD BY ARCHITECT; INSTALLATION: ASHLAR	096813	CORRIDOR, REF. A100 SERIES	TRANSITION STRIP REQUIRED AT ALL EDGES FROM CARPET TO TERRAZZO
PT-1	PAINT	SHERWIN WILLIAMS	TBD BY ARCHITECT	099113	CORRIDOR, CLASSROOMS, REF. A100 SERIES	
PT-2	PAINT	SHERWIN WILLIAMS	TBD BY ARCHITECT	099113	CORRIDOR, REF. A100 SERIES	
PT-3	PAINT	SHERWIN WILLIAMS	TBD BY ARCHITECT	099113	CORRIDOR, REF. A100 SERIES	
PT-4	PAINT	SHERWIN WILLIAMS	TBD BY ARCHITECT	099113	CORRIDOR, REF. A100 SERIES	
PT-5	PAINT	SHERWIN WILLIAMS	TBD BY ARCHITECT	099113	CORRIDOR, REF. A100 SERIES	
SSM-1	SOLID SURFACE MATERIAL	WILSONART	SOLID SURFACE COUNTERTOP; COLOR: TBD BY ARCHITECT	123600	MEN'S AND WOMEN'S RESTROOMS	
TS-1	TRANSITION STRIP	SCHLUTER	TYPE: VINPRO 5MM	096513	CORRIDOR, REF. A100 SERIES	CARPET TO EXISTING TERRAZZO
WG-1	WALL GUARD	CONSTRUCTION SPECIALTIES	ACROVYN DIMENSIONAL MOLDING; PROFILE: SQUARE RAIL; COLOR: TBD BY ARCHITECT	-	CLASSROOMS	
WT-1	WINDOW TREATMENT	DRAPER	MANUAL ROLLER SHADE W/ FASCIA	122400	CLASSROOMS	VERIFY WINDOW DIMENSIONS IN FIELD
WTB-1	WHITEBOARD	-	PORCELAIN ENAMEL STEEL MARKERBOARD	-	CLASSROOMS	DIMENSIONS TO MATCH EXISTING, V.I.F.

FLOORING TRANSITIONS



WALL GUARD





OLD MAIN - BASEMENT FLOOR PLAN | 1/16" = 1'-0" | 1

FLOOR PLAN LEGEND

- MATCHLINE
- EXISTING PARTITION
- EXISTING PARTITION TO BE DEMOLISHED
- WORK POINT
- ROOM NAME 0000 — DENOTES ROOM NAME AND NUMBER
- WALL / FLOOR / BASE / CEILING — DENOTES TYPICAL DESIGNATED CEILING, WALL, FLOOR, AND WALL BASE FINISH MATERIAL. REFER TO FLOOR PLANS AND FINISH KEY FOR ADDITIONAL INFORMATION.

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

Scale: As indicated

Drawing Title
OLD MAIN - BASEMENT COMPOSITE PLAN

Drawing No:
A100

Sheet Size: 24" x 36"

KEYNOTES

FLOORS:

- F1 EXISTING RESILIENT FLOOR TO REMAIN
- F2 EXISTING TERRAZZO FLOOR TO REMAIN
- F3 EXISTING TILE FLOOR TO REMAIN
- F4 EXISTING WALL BASE TO REMAIN

WALLS:

- W1 WHERE EXISTING WALLS ARE TO RECEIVE NEW PAINT, REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.
- W2 EXISTING WALL TILE TO REMAIN.
- W3 REMOVE EXISTING CHAIR RAIL AND REPLACE WITH WALL GUARD PER SCHEDULE; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH ADJACENT SURFACES. USE PVA FREE PRIMER.
- W4 REMOVE EXISTING WALL MOUNTED HANGERS; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH ADJACENT SURFACES.

CEILINGS:

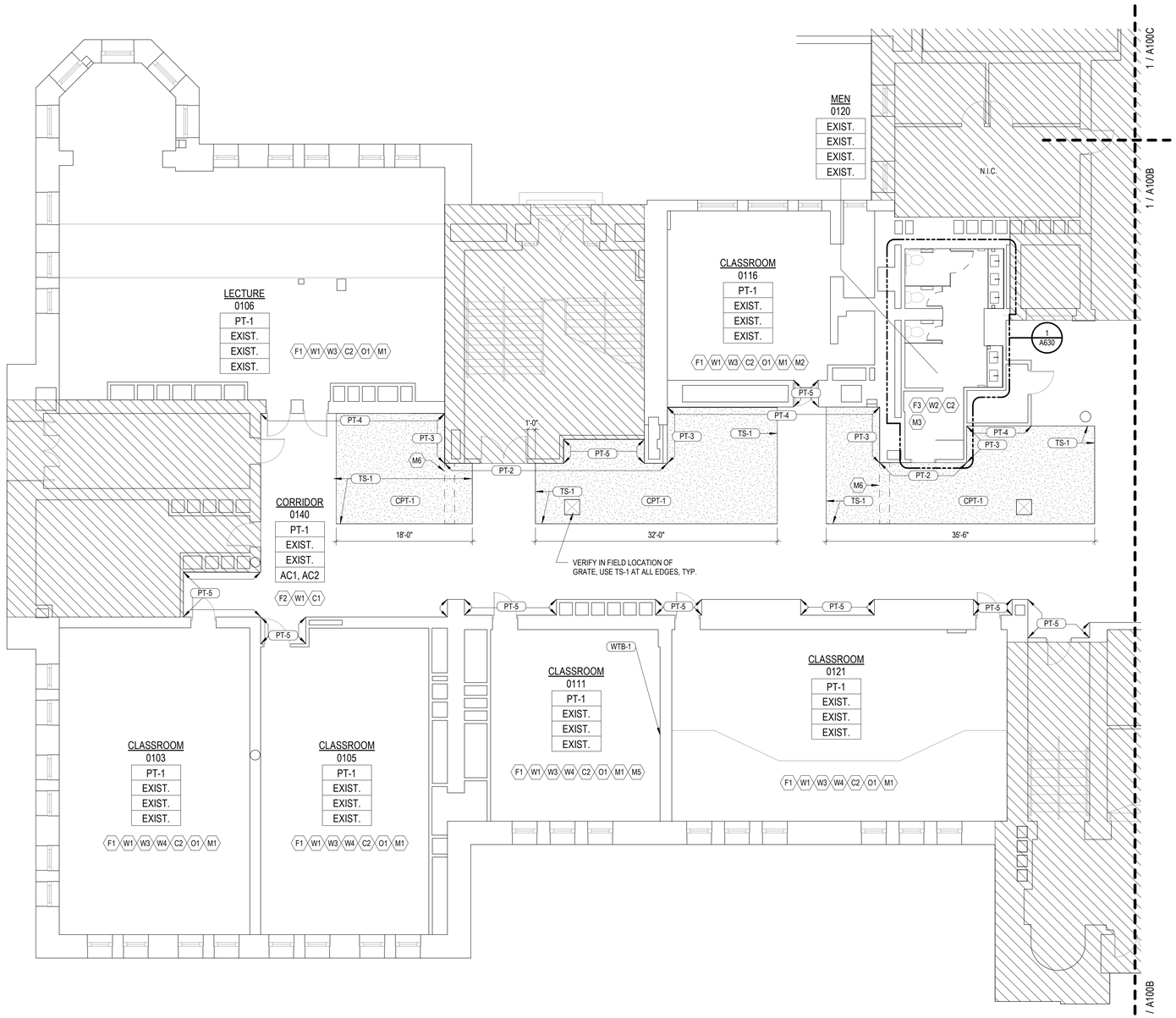
- C1 EXISTING ACT GRID TO REMAIN; MODIFY AS REQUIRED FOR INSTALLATION OF NEW TILES. REMOVE AND REPLACE ALL TILES PER SCHEDULE. REMOVE AND REPLACE ALL LIGHTING PER SCHEDULE. INCLUDE OCCUPANCY SENSORS THROUGHOUT; CONTRACTOR TO LOCATE DEVICES TO ENSURE COMPLETE COVERAGE OF EACH SPACE.
- C2 EXISTING ACT CEILING TO REMAIN; INSPECT AND REPLACE DAMAGED / STAINED TILES AS REQUIRED.

OPENINGS:

- O1 REMOVE EXISTING SECURITY GRATE FROM DOOR LITE; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH EXISTING.

MISCELLANEOUS:

- M1 REMOVE ALL CLASSROOM BLINDS AND REPLACE WITH WT-1 PER MATERIAL INDEX. REFER TO SHEET A-100
- M2 REMOVE AND REPLACE EXISTING WHITEBOARDS WITH LIKE. REFER TO MATERIAL INDEX.
- M3 REMOVE AND REPLACE TOILET PARTITIONS WITH LIKE.
- M4 EVALUATE MIRRORS FOR REPLACEMENT OR REPAIR.
- M5 REMOVE AND REPLACE SPECIFIED WHITE BOARDS ON AREA PLAN PER MATERIAL INDEX. REFER TO SHEET A-100. MATCH EXIST MODEL AND DIMENSIONS
- M6 REMOVE EXISTING PARTIAL-HEIGHT PARTITION; INFILL, PATCH AND FINISH ADJACENT WALL TO MATCH EXISTING; REPAIR OR INFILL TERRAZZO FLOOR TO MATCH EXISTING; TYP.



FLOOR PLAN LEGEND

- MATCHLINE
- EXISTING PARTITION
- EXISTING PARTITION TO BE DEMOLISHED
- WORK POINT
- ROOM NAME / 0000 — DENOTES ROOM NAME AND NUMBER
- WALL / FLOOR / BASE / CEILING — DENOTES TYPICAL DESIGNATED CEILING, WALL, FLOOR, AND WALL BASE FINISH MATERIAL. REFER TO FLOOR PLANS AND FINISH KEY FOR ADDITIONAL INFORMATION.

FLOOR PLAN NOTES

1. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION.
2. ALL DIMENSIONS ARE TO FACE OF EXISTING WALL OR COLUMN FINISH UNO.
3. CONTRCTOR TO CONFIRM EXISTING WALLS CAN SUPPORT ANY NEW MILLWORK, SHELVES, OR OTHER WALL MOUNTED EQUIPMENT.
4. INFILL ALL UNUSED FLOOR/WALL PENETRATIONS TO MATCH ADJACENT SURFACE.
5. NOTIFY ARCHITECT IF ANY EXISTING CHANGE IN FINISH FLOOR ELEVATIONS EXIST NOT SHOWN ON DRAWINGS, AND ASSUME A LANDING, STEPS, AND/OR RAMP TRANSITION WILL BE REQUIRED WHERE CHANGE IN ELEVATION OCCURS.
6. COORDINATE LOCATION OF ELECTRICAL CONNECTIONS WITH FINAL FURNITURE LAYOUT.

OLD MAIN - BASEMENT FLOOR PLAN - AREA A | 1/8" = 1'-0" | 1

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00
Drawn By: Author **Approved By:** Checker
Scale: 1/8" = 1'-0"

Drawing Title
OLD MAIN - BASEMENT FLOOR PLAN - AREA A
Drawing No:
A100A

Sheet Size: 24" x 36"

KEYNOTES

FLOORS:

- F1 EXISTING RESILIENT FLOOR TO REMAIN
- F2 EXISTING TERRAZZO FLOOR TO REMAIN
- F3 EXISTING TILE FLOOR TO REMAIN
- F4 EXISTING WALL BASE TO REMAIN

WALLS:

- W1 WHERE EXISTING WALLS ARE TO RECEIVE NEW PAINT, REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.
- W2 EXISTING WALL TILE TO REMAIN.
- W3 REMOVE EXISTING CHAIR RAIL AND REPLACE WITH WALL GUARD PER SCHEDULE; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH ADJACENT SURFACES. USE PVA FREE PRIMER.
- W4 REMOVE EXISTING WALL MOUNTED HANGERS; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH ADJACENT SURFACES.

CEILINGS:

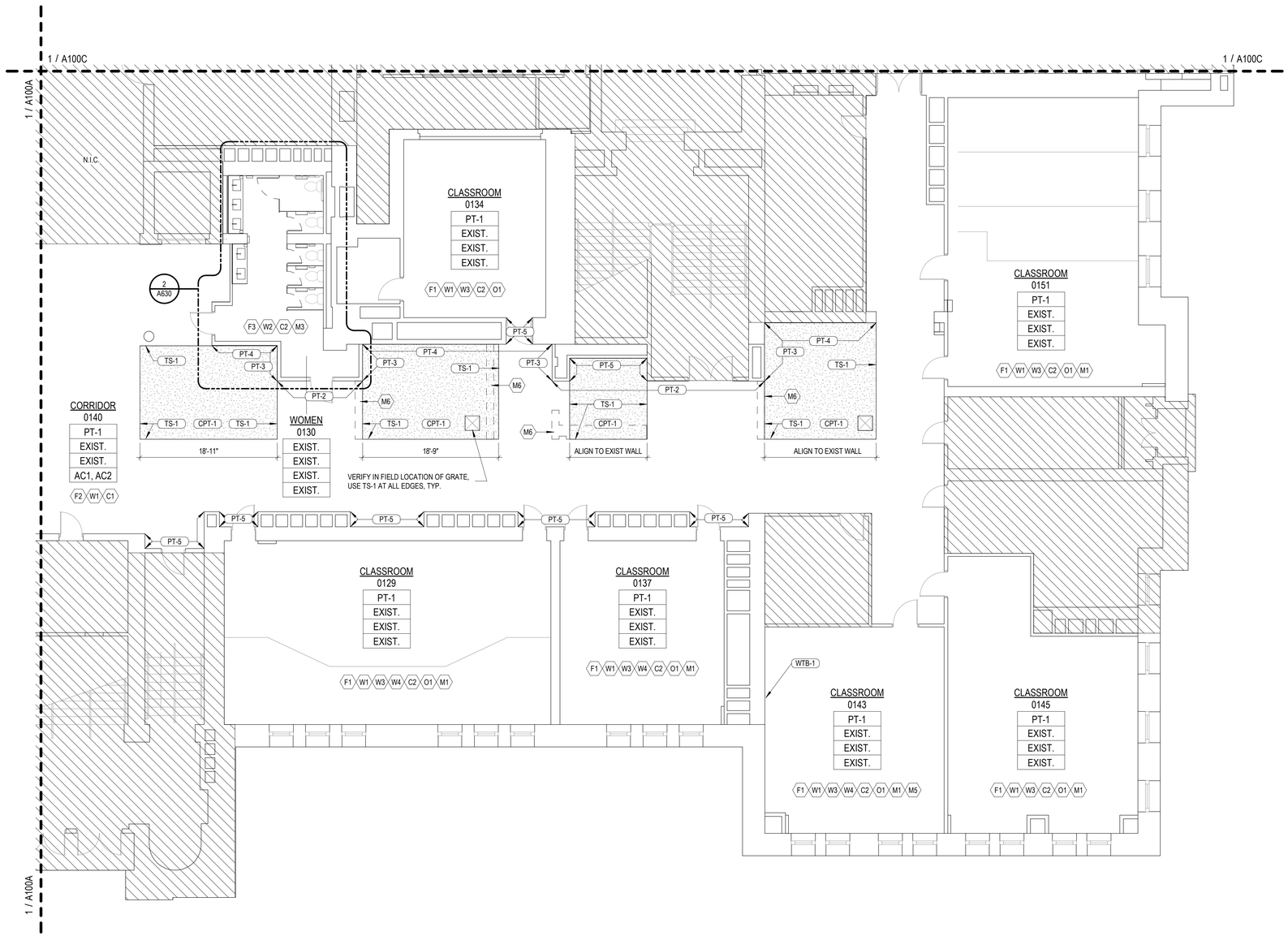
- C1 EXISTING ACT GRID TO REMAIN; MODIFY AS REQUIRED FOR INSTALLATION OF NEW TILES. REMOVE AND REPLACE ALL TILES PER SCHEDULE. REMOVE AND REPLACE ALL LIGHTING PER SCHEDULE. INCLUDE OCCUPANCY SENSORS THROUGHOUT; CONTRACTOR TO LOCATE DEVICES TO ENSURE COMPLETE COVERAGE OF EACH SPACE.
- C2 EXISTING ACT CEILING TO REMAIN; INSPECT AND REPLACE DAMAGED / STAINED TILES AS REQUIRED.

OPENINGS:

- O1 REMOVE EXISTING SECURITY GRATE FROM DOOR LITE; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH EXISTING.

MISCELLANEOUS:

- M1 REMOVE ALL CLASSROOM BLINDS AND REPLACE WITH WT-1 PER MATERIAL INDEX. REFER TO SHEET A-100
- M2 REMOVE AND REPLACE EXISTING WHITEBOARDS WITH LIKE. REFER TO MATERIAL INDEX.
- M3 REMOVE AND REPLACE TOILET PARTITIONS WITH LIKE.
- M4 EVALUATE MIRRORS FOR REPLACEMENT OR REPAIR.
- M5 REMOVE AND REPLACE SPECIFIED WHITE BOARDS ON AREA PLAN PER MATERIAL INDEX. REFER TO SHEET A-100. MATCH EXIST MODEL AND DIMENSIONS
- M6 REMOVE EXISTING PARTIAL-HEIGHT PARTITION; INFILL, PATCH AND FINISH ADJACENT WALL TO MATCH EXISTING; REPAIR OR INFILL TERRAZZO FLOOR TO MATCH EXISTING; TYP.



FLOOR PLAN LEGEND

MATCHLINE	
EXISTING PARTITION	
EXISTING PARTITION TO BE DEMOLISHED	
WORK POINT	
ROOM NAME 0000	DENOTES ROOM NAME AND NUMBER
WALL / FLOOR / BASE / CEILING	DENOTES TYPICAL DESIGNATED CEILING, WALL, FLOOR, AND WALL BASE FINISH MATERIAL. REFER TO FLOOR PLANS AND FINISH KEY FOR ADDITIONAL INFORMATION.

FLOOR PLAN NOTES

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00
Drawn By: Author **Approved By:** Checker
Scale: 1/8" = 1'-0"

Drawing Title
OLD MAIN - BASEMENT FLOOR PLAN - AREA B
Drawing No:
A100B

Sheet Size: 24" x 36"

KEYNOTES

FLOORS:

- F1 EXISTING RESILIENT FLOOR TO REMAIN
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- F4 EXISTING WALL BASE TO REMAIN

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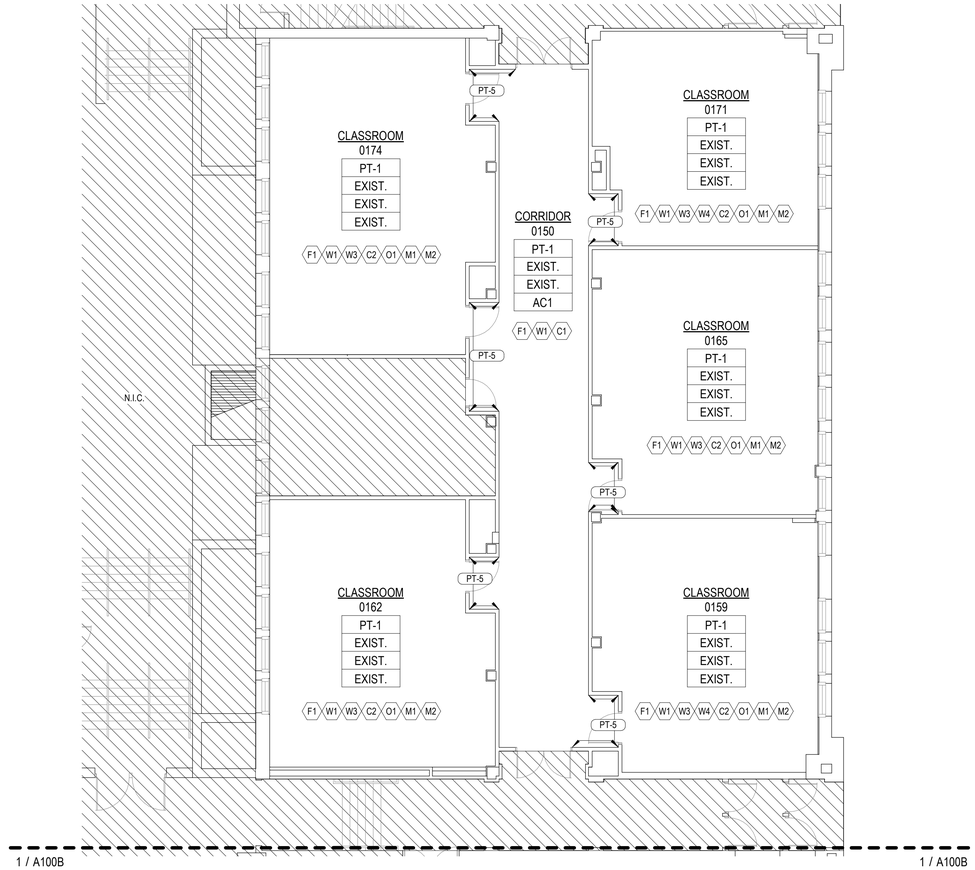
- M3 REMOVE AND REPLACE TOILET PARTITIONS WITH LIKE.
- M4 EVALUATE MIRRORS FOR REPLACEMENT OR REPAIR.
- M5 REMOVE AND REPLACE SPECIFIED WHITE BOARDS ON AREA PLAN PER MATERIAL INDEX. REFER TO SHEET A-100. MATCH EXIST MODEL AND DIMENSIONS
- M6 REMOVE EXISTING PARTIAL-HEIGHT PARTITION; INFILL, PATCH AND FINISH ADJACENT WALL TO MATCH EXISTING; REPAIR OR INFILL TERRAZZO FLOOR TO MATCH EXISTING; TYP.



OLD MAIN - BASEMENT FLOOR PLAN - AREA C | 1/8" = 1'-0" | 1

FLOOR PLAN LEGEND

- MATCHLINE
- EXISTING PARTITION
- EXISTING PARTITION TO BE DEMOLISHED
- WORK POINT
- ROOM NAME / 0000 — DENOTES ROOM NAME AND NUMBER
- WALL / FLOOR / BASE / CEILING — DENOTES TYPICAL DESIGNATED CEILING, WALL, FLOOR, AND WALL BASE FINISH MATERIAL. REFER TO FLOOR PLANS AND FINISH KEY FOR ADDITIONAL INFORMATION.

FLOOR PLAN NOTES

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3. CONTRCTOR TO CONFIRM EXISTING WALLS CAN SUPPORT ANY NEW MILLWORK, SHELVES, OR OTHER WALL MOUNTED EQUIPMENT.
4. INFILL ALL UNUSED FLOOR/WALL PENETRATIONS TO MATCH ADJACENT SURFACE.
5. NOTIFY ARCHITECT IF ANY EXISTING CHANGE IN FINISH FLOOR ELEVATIONS EXIST NOT SHOWN ON DRAWINGS, AND ASSUME A LANDING, STEPS, AND/OR RAMP TRANSITION WILL BE REQUIRED WHERE CHANGE IN ELEVATION OCCURS.
6. COORDINATE LOCATION OF ELECTRICAL CONNECTIONS WITH FINAL FURNITURE LAYOUT.

WSU Old Main Renovations

Old Main: 4841 Cass Ave
Detroit, MI 48202
WSU#: 001-428506

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Key Plan

Registration Seal

NOT FOR CONSTRUCTION

No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00
Drawn By: Author **Approved By:** Checker
Scale: 1/8" = 1'-0"

Drawing Title
OLD MAIN - BASEMENT FLOOR PLAN - AREA C
Drawing No:
A100C

Sheet Size: 24" x 36"

KEYNOTES

FLOORS:

- F1 EXISTING RESILIENT FLOOR TO REMAIN
- F2 EXISTING TERRAZZO FLOOR TO REMAIN
- F3 EXISTING TILE FLOOR TO REMAIN
- F4 EXISTING WALL BASE TO REMAIN

WALLS:

- W1 WHERE EXISTING WALLS ARE TO RECEIVE NEW PAINT, REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.
- W2 EXISTING WALL TILE TO REMAIN.
- W3 REMOVE EXISTING CHAIR RAIL AND REPLACE WITH WALL GUARD PER SCHEDULE; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH ADJACENT SURFACES. USE PVA FREE PRIMER.
- W4 REMOVE EXISTING WALL MOUNTED HANGERS; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH ADJACENT SURFACES.

CEILINGS:

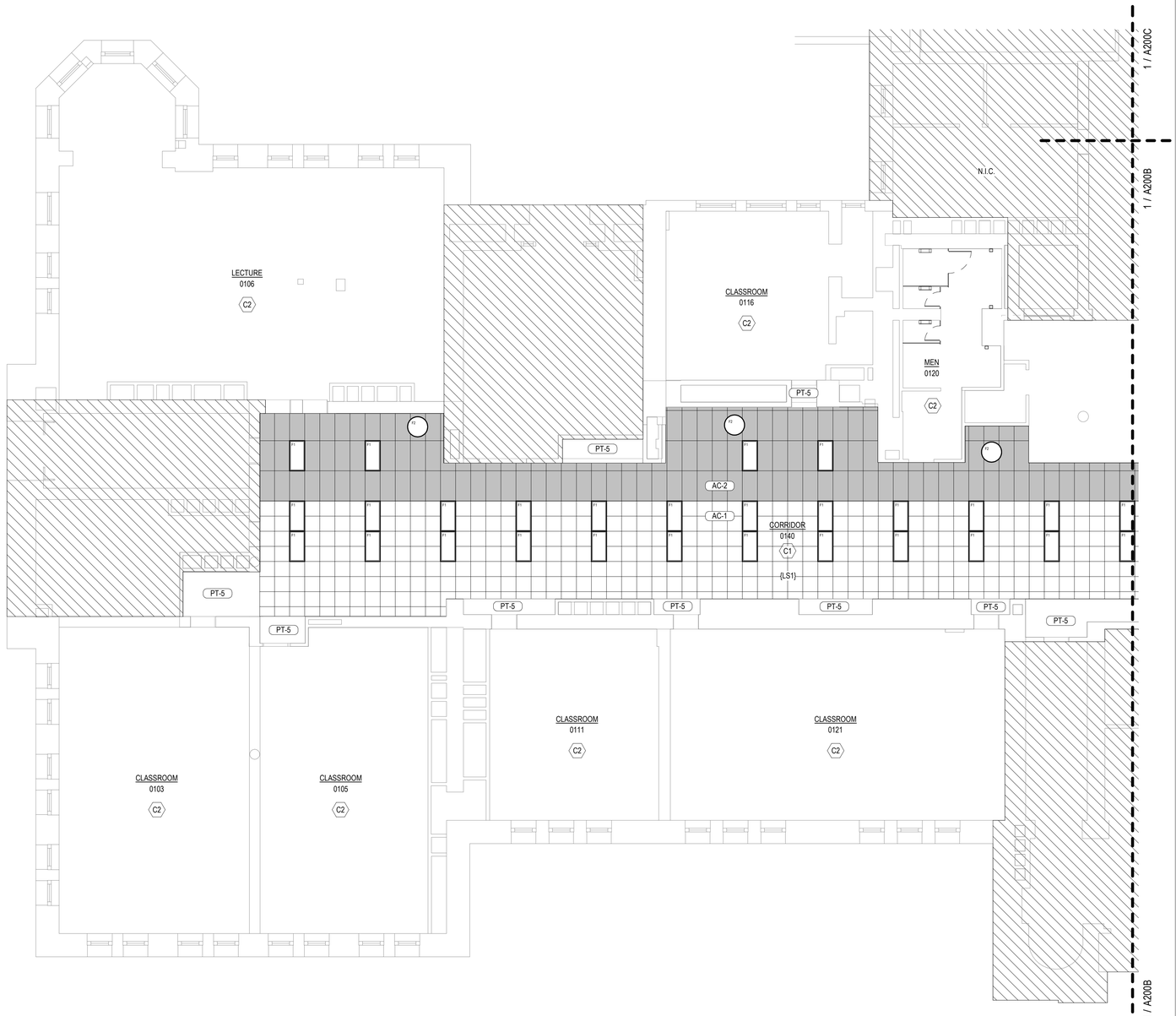
- C1 EXISTING ACT GRID TO REMAIN; MODIFY AS REQUIRED FOR INSTALLATION OF NEW TILES. REMOVE AND REPLACE ALL TILES PER SCHEDULE. REMOVE AND REPLACE ALL LIGHTING PER SCHEDULE. INCLUDE OCCUPANCY SENSORS THROUGHOUT; CONTRACTOR TO LOCATE DEVICES TO ENSURE COMPLETE COVERAGE OF EACH SPACE.
- C2 EXISTING ACT CEILING TO REMAIN; INSPECT AND REPLACE DAMAGED / STAINED TILES AS REQUIRED.

OPENINGS:

- O1 REMOVE EXISTING SECURITY GRATE FROM DOOR LITE; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH EXISTING.

MISCELLANEOUS:

- M1 REMOVE ALL CLASSROOM BLINDS AND REPLACE WITH WT-1 PER MATERIAL INDEX. REFER TO SHEET A-100
- M2 REMOVE AND REPLACE EXISTING WHITEBOARDS WITH LIKE. REFER TO MATERIAL INDEX.
- M3 REMOVE AND REPLACE TOILET PARTITIONS WITH LIKE.
- M4 EVALUATE MIRRORS FOR REPLACEMENT OR REPAIR.
- M5 REMOVE AND REPLACE SPECIFIED WHITE BOARDS ON AREA PLAN PER MATERIAL INDEX. REFER TO SHEET A-100. MATCH EXIST MODEL AND DIMENSIONS
- M6 REMOVE EXISTING PARTIAL-HEIGHT PARTITION; INFILL, PATCH AND FINISH ADJACENT WALL TO MATCH EXISTING; REPAIR OR INFILL TERRAZZO FLOOR TO MATCH EXISTING; TYP.



OLD MAIN - BASEMENT RCP - AREA A | 1/8" = 1'-0" | 1

CEILING PLAN LEGEND

- 2X2 ACT LAY-IN: ARMSTRONG ULTIMA TEGULAR
- 2X4 ACT LAY-IN: ARMSTRONG, CIRRUS SECOND LOOK PATTERN III
- GYP. BOARD
- 2X4 LAY-IN CEILING LIGHT, RE: ELEC
- PENDANT FIXTURE, RE: ELEC.

CEILING PLAN GENERAL NOTES

1. LAY-IN CEILING GRID IS EXISTING TO REMAIN, TYPICAL. MODIFY GRID WHERE REQUIRED FOR INSTALLATION OF NEW 2X4 LAY-IN TILES
2. REPLACE EXISTING TILES PER ROOM FINISH SCHEDULE AND FLOOR PLAN KEYNOTES, TYPICAL.
3. ALL CEILING MOUNTED RECEPTACLES, TELECOM, SMOKE DETECTORS, EXIT LIGHTING, AND HVAC REGISTERS ARE EXISTING TO REMAIN; REMOVE AND REINSTALL AS NEEDED FOR INSTALLATION OF REPLACEMENT CEILING TILES.
4. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS.
5. COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD CEILING WITH ARCHITECT PRIOR TO INSTALLATION
6. CENTER ALL CEILING GRIDS WITHIN ROOMS UNLESS NOTED OTHERWISE
7. PROVIDE BLOCKING IN CEILING AS REQUIRED FOR DISPLAY FIXTURES, DECORATIVE LIGHT FIXTURES, CEILING HUNG EQUIPMENT, TOILET PARTITIONS, ETC.
8. ALL CEILING MOUNTED EQUIPMENT (LIGHT FIXTURES, OCCUPANCY SENSORS, SMOKE DETECTORS, ETC) SHALL BE CENTERED IN CEILING TILES
9. GYPSUM BOARD SOFFITS INDICATED TO RECEIVE PAINT ON HORIZONTAL AND VERTICAL SURFACE UNLESS OTHERWISE NOTED.

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Key Plan

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Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

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

Drawing Title
OLD MAIN - BASEMENT RCP - AREA A

Drawing No:
A200A

Sheet Size: 24" x 36"

KEYNOTES

FLOORS:

- F1 EXISTING RESILIENT FLOOR TO REMAIN
- F2 EXISTING TERRAZZO FLOOR TO REMAIN
- F3 EXISTING TILE FLOOR TO REMAIN
- F4 EXISTING WALL BASE TO REMAIN

WALLS:

- W1 WHERE EXISTING WALLS ARE TO RECEIVE NEW PAINT, REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.
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CEILINGS:

- C1 EXISTING ACT GRID TO REMAIN; MODIFY AS REQUIRED FOR INSTALLATION OF NEW TILES. REMOVE AND REPLACE ALL TILES PER SCHEDULE. REMOVE AND REPLACE ALL LIGHTING PER SCHEDULE. INCLUDE OCCUPANCY SENSORS THROUGHOUT; CONTRACTOR TO LOCATE DEVICES TO ENSURE COMPLETE COVERAGE OF EACH SPACE.
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- O1 REMOVE EXISTING SECURITY GRATE FROM DOOR LITE; REPAIR ALL DAMAGE FROM REMOVAL AND REFINISH TO MATCH EXISTING.

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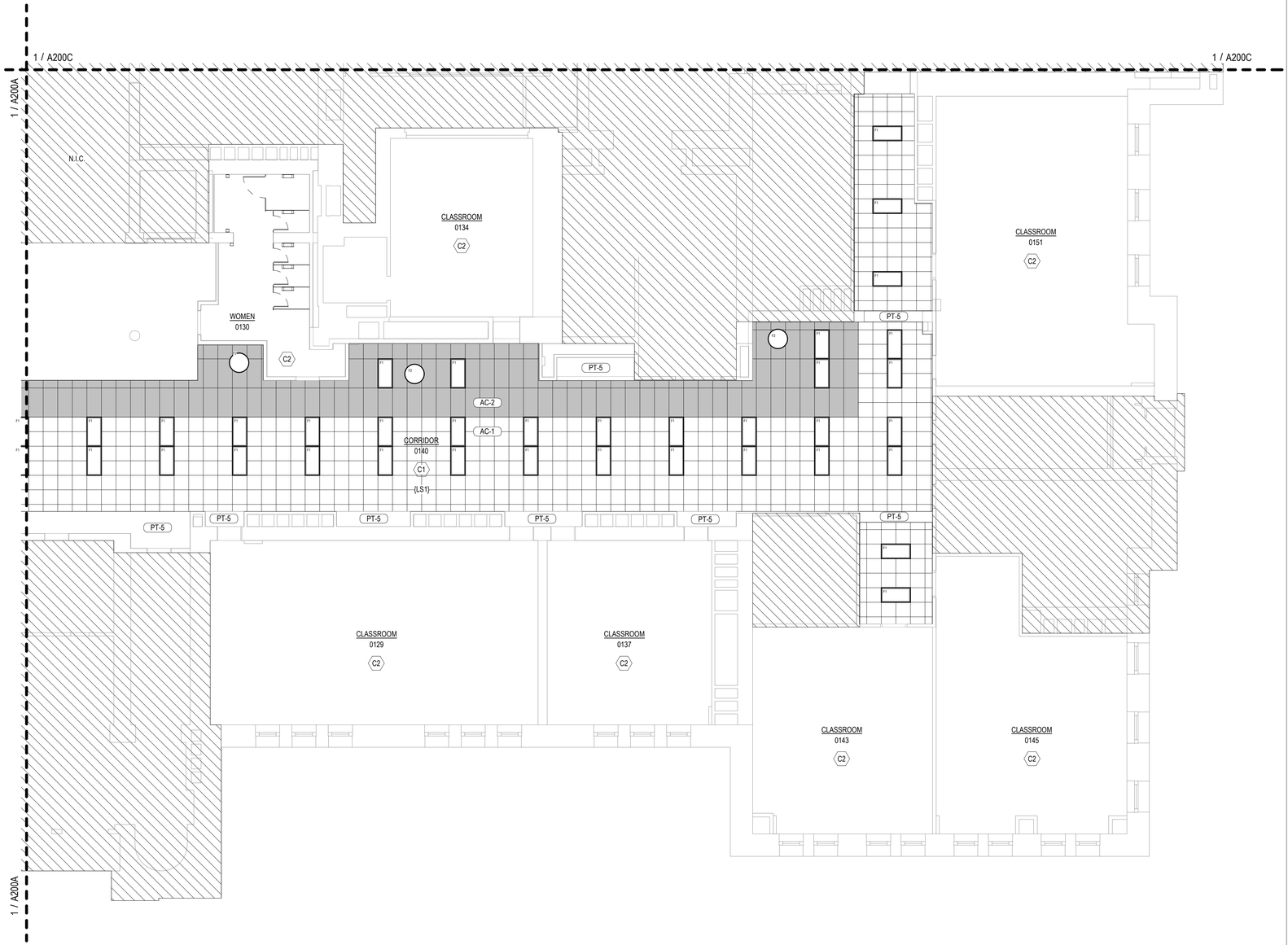

CEILING PLAN LEGEND

- 2X2 ACT LAY-IN: ARMSTRONG ULTIMA TEGULAR
- 2X4 ACT LAY-IN: ARMSTRONG, CIRRUS SECOND LOOK PATTERN III
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- 2X4 LAY-IN CEILING LIGHT, RE: ELEC
- PENDANT FIXTURE, RE: ELEC.

CEILING PLAN GENERAL NOTES

1. LAY-IN CEILING GRID IS EXISTING TO REMAIN, TYPICAL. MODIFY GRID WHERE REQUIRED FOR INSTALLATION OF NEW 2X4 LAY-IN TILES
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OLD MAIN - BASEMENT RCP - AREA B | 1/8" = 1'-0" | 1

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Key Plan

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Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

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

Drawing Title
OLD MAIN - BASEMENT RCP - AREA B

Drawing No:
A200B

Sheet Size: 24" x 36"

KEYNOTES

FLOORS:

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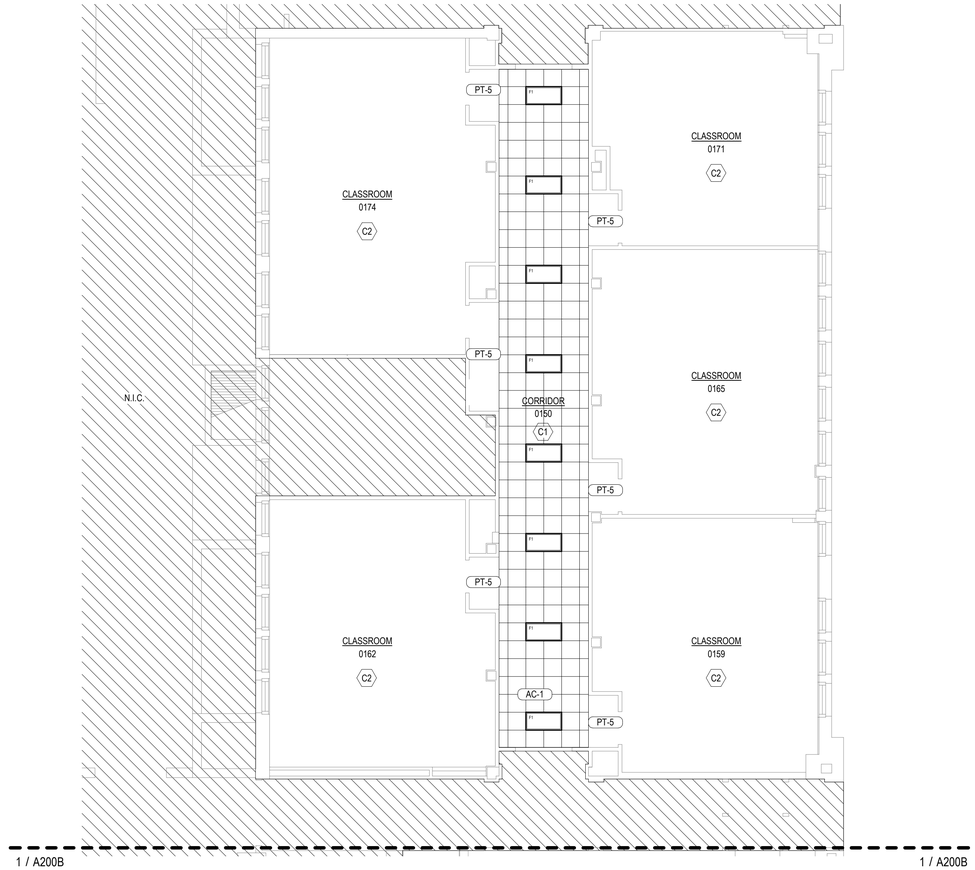

1 / A200B 1 / A200B

CEILING PLAN LEGEND

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Key Plan

Registration Seal

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Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

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

Drawing Title
OLD MAIN - BASEMENT RCP - AREA C

Drawing No:
A200C

OLD MAIN - BASEMENT RCP - AREA C | 1/8" = 1'-0" | 1

Sheet Size: 24" x 36"

KEYNOTES

FLOORS:

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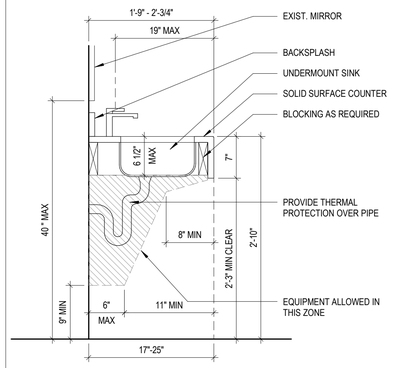
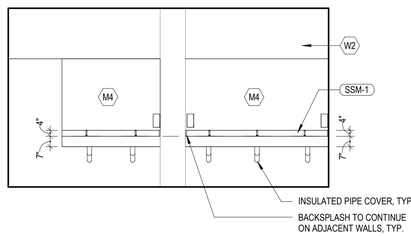
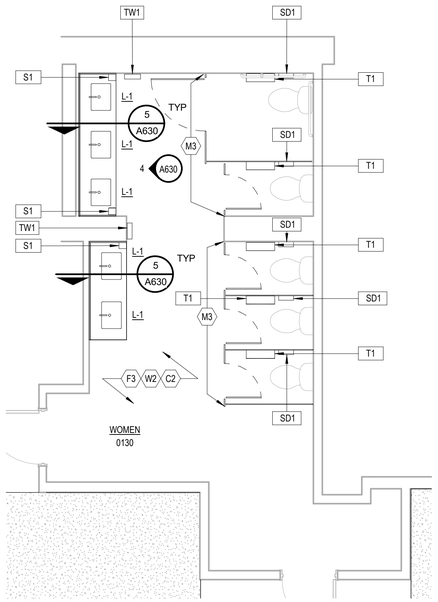
TAG	DESCRIPTION	MANUFACTURER AND MODEL
L-1	LAVATORY - UNDER-COUNTER MOUNTED, WHITE VITREOUS CHINA, 19"x16" O.D. OVAL BOWL, FRONT OVERFLOW. COORDINATE OPENINGS REQUIRED IN COUNTERTOP WITH GENERAL CONTRACTOR. FIELD CUT OPENINGS WILL NOT BE ACCEPTABLE. LAVATORY TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, SINGLE WING HANDLES AT4" CENTERS, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL. ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. 0.5 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874.	LAVATORY - AMERICAN STANDARD (0496.221), KOHLER (K-2210), GERBER (G0012780), SLOAN (SS-3001), TOTO (LT569), ZURN (Z5220) LAVATORY TRIM - CHICAGO FAUCET (895), MOEN (8279), SPEAKMAN (SC-3084), SYMMONS (S-245), ZURN (Z812B4-XL),DELTA (27C4924), AMERICAN STANDARD (7500.170) MIXING VALVE - WATTS (LFUSG-B), LEONARD (170D-LF), LAWLER (TMM-1070T), ACORN CONTROLS (ST70), APOLLO (34DLF), POWERS (LFE480), SLOAN (MIX-135-A), CHICAGO FAUCETS (131-CABNF), SYMMONS (8210CK), WILKINS (ZW3870XLT)



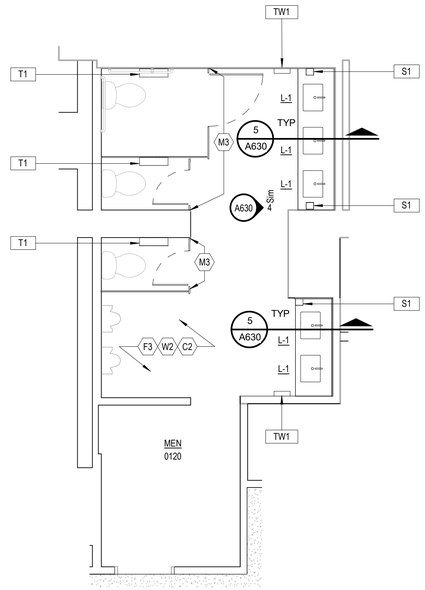
ACC. FRONT APPROACH SINK | 1" = 1'-0" | 5



WOMEN'S - WEST | 1/4" = 1'-0" | 4



BASEMENT AREA B WOMEN'S ROOM | 1/4" = 1'-0" | 2



BASEMENT AREA A MEN'S ROOM | 1/4" = 1'-0" | 1

FLOOR PLAN LEGEND

- MATCHLINE
- EXISTING PARTITION
- EXISTING PARTITION TO BE DEMOLISHED
- WORK POINT
- ROOM NAME 0000 — DENOTES ROOM NAME AND NUMBER
- WALL / FLOOR / BASE / CEILING — DENOTES TYPICAL DESIGNATED CEILING, WALL, FLOOR, AND WALL BASE FINISH MATERIAL. REFER TO FLOOR PLANS AND FINISH KEY FOR ADDITIONAL INFORMATION.

FLOOR PLAN NOTES

1. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION.
2. ALL DIMENSIONS ARE TO FACE OF EXISTING WALL OR COLUMN FINISH UNO.
3. CONTRCTOR TO CONFIRM EXISTING WALLS CAN SUPPORT ANY NEW MILLWORK, SHELVES, OR OTHER WALL MOUNTED EQUIPMENT.
4. INFILL ALL UNUSED FLOOR/WALL PENETRATIONS TO MATCH ADJACENT SURFACE.
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6. COORDINATE LOCATION OF ELECTRICAL CONNECTIONS WITH FINAL FURNITURE LAYOUT.

ACCESSORIES LEGEND

- S1 AUTOMATIC SOAP DISPENSER
- TW1 WALL MOUNTED PAPER TOWEL DISPENSER/ WASTE RECEPTACLE
- T1 TOILET TISSUE DISPENSER
- SD1 SANITARY DISPOSAL

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Drawing Title
OLD MAIN - ENLARGED TOILET PLANS
Drawing No:
A630

Sheet Size: 24" x 36"

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	**DISTRIBUTION:**	**BEAMWIDTH:**	**(L/L) LENS/LOUVER:**	K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC	M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER	N - NONE
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	K - KSH12 .125" ACRYLIC	O - OTHER (SEE DESCRIPTION)
CFSA - COLOR-FINISH SELECTION BY ARCHITECT				[DESIGN SPECIFIC BLANKS]
(MTG) MOUNTING:	RE - RECESSED		**(WATT) PER:** FIX - FIXTURE, FT - FOOT, LAMP	
CL - CEILING SURFACE	SP - SUSPENDED		**(TYPE) LED**	RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE		LED - LIGHT EMITTING DIODE	RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET		TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL		OLED - ORGANIC LED	RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)		DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED
(TYPE) DRIVER:				
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP DIM		MV - MULTI-VOLTAGE ELECTRONIC
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LINE - LINE VOLTAGE DIMMING		REM - REMOTE
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING		O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19.
INTERIOR CORRELATED COLOR TEMPERATURE 4000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

				DIMENSIONS				WATT		LED			DRIVER		
ITEM	DESCRIPTION	L/L	MTG	L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
F1	2'X4' RECESSED DIRECT LED TROFFER WITH CURVED SMOOTH DIFFUSER, SATIN WHITE FINISH. UPON LOSS OF POWER, LUMINAIRE SHALL IMMEDIATELY SWITCH TO BATTERY BACKUP POWER FOR EGRESS LIGHTING.	O	RE	2'-0"	4'-0"	5 77/256"		23	FIX	LED	1	3000 LUMENS	120	0-10V	LITHONIA BLT METALUX CRUZ ST COLUMBIA LCAT DAYBRITE FLUXGRID FGG
F2	22" DIAMETER PENDANT MOUNT GLOBE FIXTURE, GLACIER WHITE FINISH	O	SP				22"	30	FIX	LED	1	3800 LUMENS	120	0-10V	VISA LIGHTING CP7120 ZUME IN

LIGHTING SEQUENCE OF OPERATION

GENERAL REQUIREMENTS:
1. WHEN 'SWITCH ID' IS NOT PROVIDED, THE WALL CONTROL DEVICE SHALL CONTROL ALL LIGHTS WITHIN THE ROOM.
2. THE LIGHTING CONTROL SYSTEM SHALL MEET THE REQUIREMENTS OF THE 2021 MICHIGAN ENERGY CODE.
3. OCCUPANCY/VACANCY SENSOR SHALL BE INSTALLED INTEGRAL TO WALL CONTROL DEVICE WHERE CEILING MOUNTED SENSORS ARE NOT SHOWN ON DRAWINGS, BUT THE SEQUENCE OF OPERATIONS FOR THE SPACE REQUIRES OCCUPANCY/VACANCY CONTROL.
4. WHERE SWITCHED RECEPTACLES ARE SHOWN ON THE POWER DRAWINGS, PROVIDE ADDITIONAL POWER SUPPLIES AS REQUIRED TO ENERGIZE THE DEVICE WHEN THE ROOM IS OCCUPIED AND DEENERGIZE THE DEVICE AFTER THE SPACE HAS BEEN VACATED FOR 20 MINUTES.

PLAN ID	LIGHTING SWITCHED
{LS1}	SEQUENCE: MANUAL SWITCHING WITH OCCUPANCY CONTROL. ON: LIGHTS ARE TURNED ON MANUALLY BY USING WALL CONTROL DEVICE OR AUTOMATICALLY WHEN THE OCCUPANCY SENSOR(S) ARE ACTIVATED (BOTH TECHNOLOGIES ARE ACTIVATED). LIGHTS SHALL REMAIN ON WHILE EITHER TECHNOLOGY IS ACTIVATED. OFF: LIGHTS ARE TURNED OFF MANUALLY BY USING THE WALL CONTROL DEVICE OR AUTOMATICALLY AFTER SPACE HAS BEEN VACATED FOR 20 MINUTES.

WSU Old Main Renovations

Old Main: 4841 Cass Ave
Detroit, MI 48202
WSU#: 001-428506

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MEP ENGINEER
IMEG
33533 W. Twelve Mile Road, Suite 200
Farmington Hills, MI 48331
248-344-2800 phone
www.imegcorp.com

Key Plan

Registration Seal

NOT FOR CONSTRUCTION

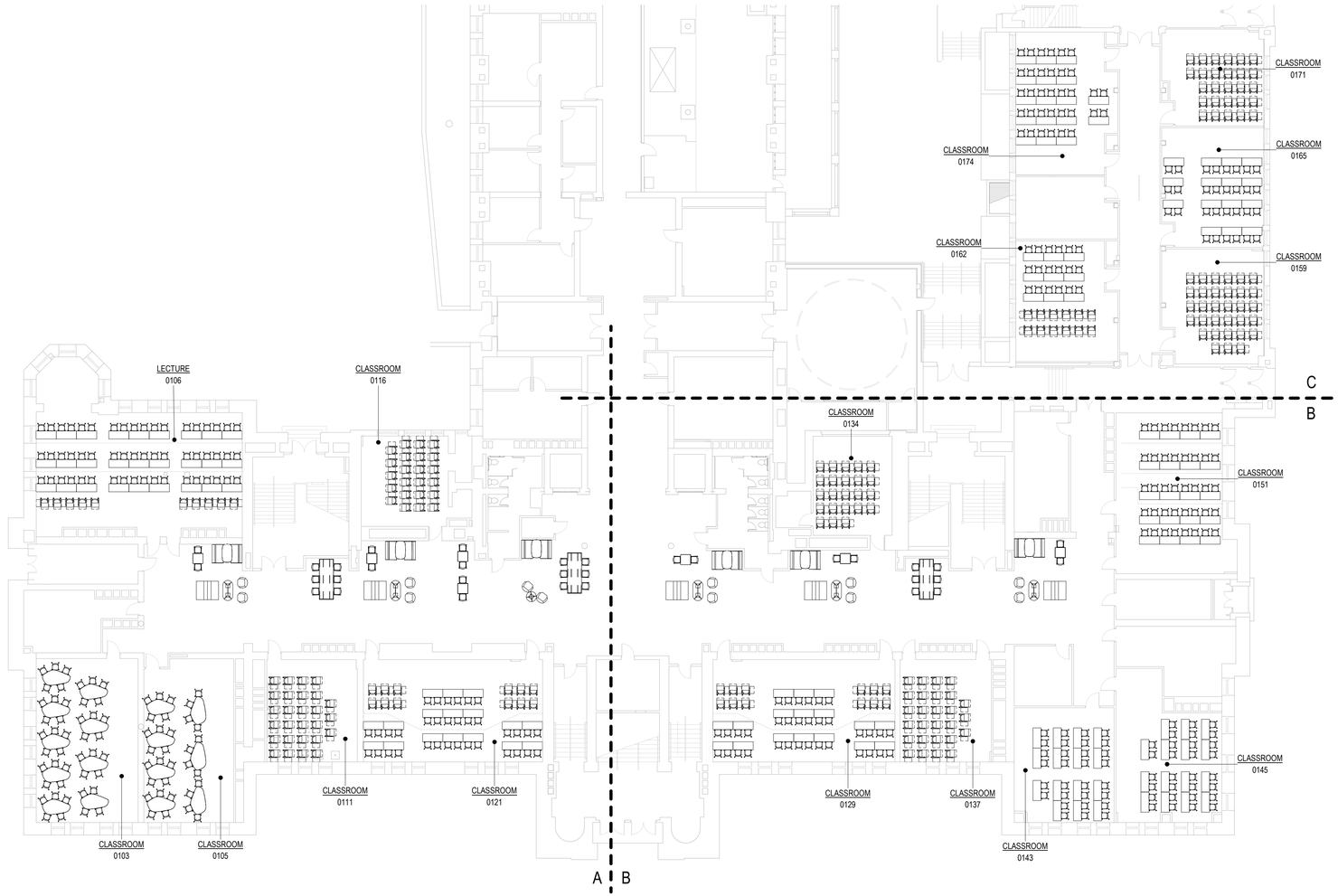
No.	Date	Description
4	05/15/2026	BID SET

Project Number: 00.000.00
Drawn By: Author **Approved By:** Checker
Scale:

Drawing Title
ELECTRICAL SCHEDULES

Drawing No:
E600

Sheet Size: 24" x 36"



FURNITURE NOTES

1. COORDINATE ALL FURNITURE LOCATIONS AND DIMENSIONS WITH FURNITURE VENDOR.
2. COORDINATE LOCATION OF ELECTRICAL CONNECTIONS WITH FINAL FURNITURE LAYOUT.
3. FURNITURE VENDOR RESPONSIBLE FOR VERIFYING DIMENSIONS IN FIELD.

FOR REFERENCE ONLY;
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OLD MAIN - BASEMENT FURNITURE PLAN | 1/16" = 1'-0" | 1

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Key Plan

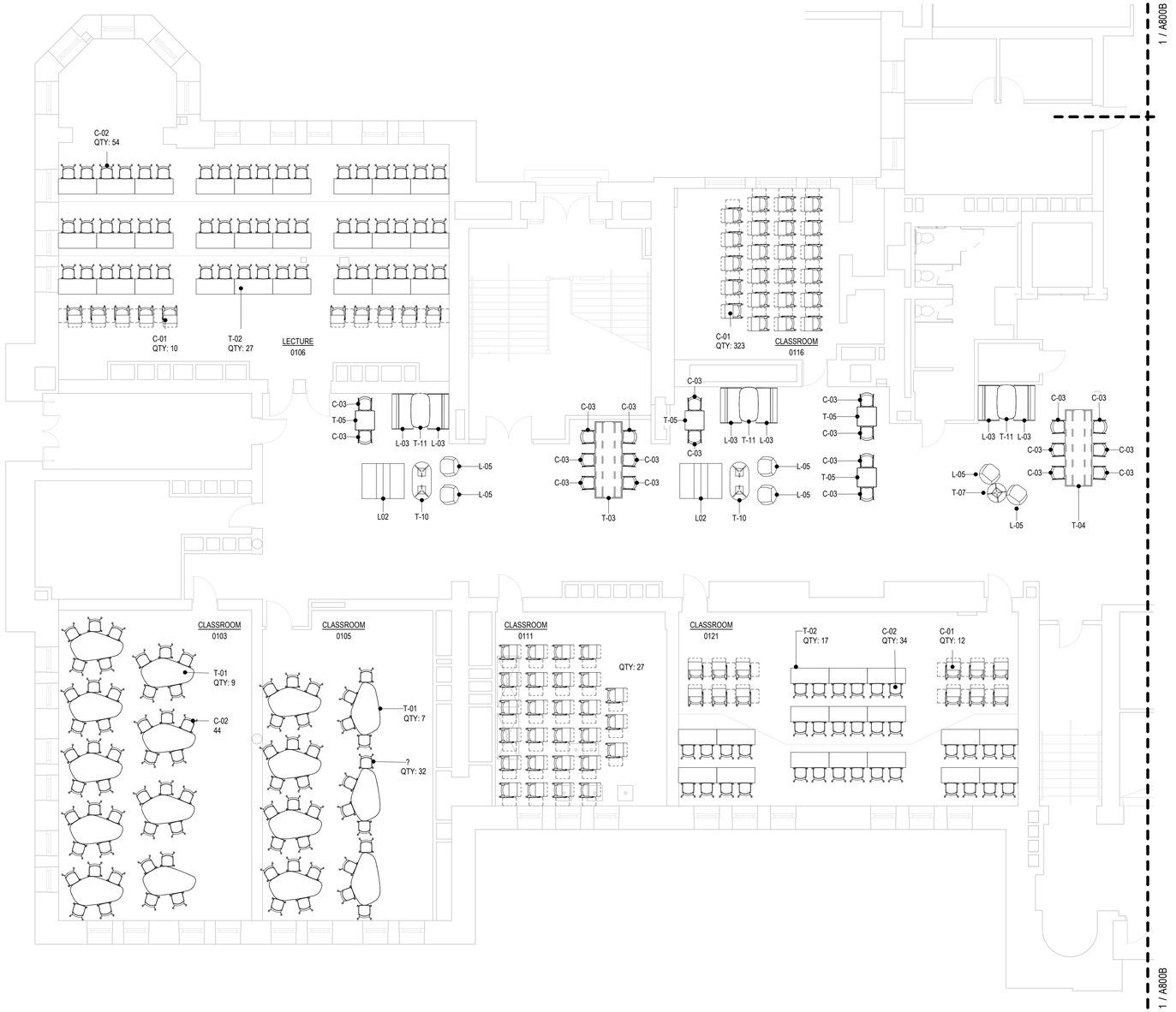
Registration Seal

No.	Date	Description
2	05/06/2026	FURNITURE BID

Project Number: 00.000.00
Drawn By: Author **Approved By:** Checker
Scale: As indicated

Drawing Title
OLD MAIN - BASEMENT FURNITURE PLAN
Drawing No:
A800

Sheet Size: 24" x 36"



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OLD MAIN - BASEMENT FURNITURE PLAN - AREA A | 1/8" = 1'-0" | 1

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Key Plan

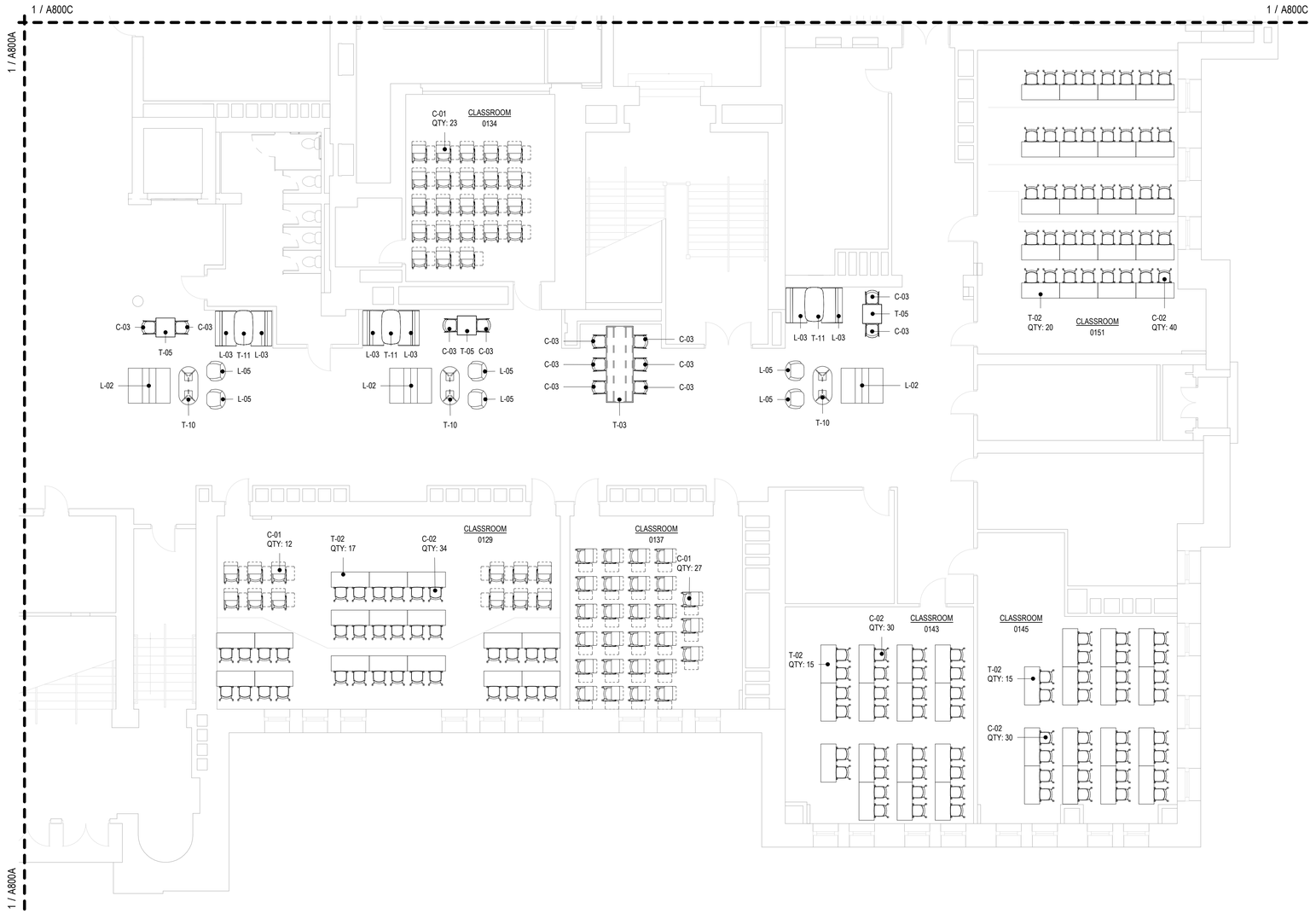
Registration Seal

No.	Date	Description
2	05/06/2026	FURNITURE BID

Project Number: 00.000.00
Drawn By: Author **Approved By:** Checker
Scale: 1/8" = 1'-0"

Drawing Title
OLD MAIN - BASEMENT FURNITURE PLAN - AREA A
Drawing No:
A800A

Sheet Size: 24" x 36"



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Key Plan

Registration Seal

No.	Date	Description
2	05/06/2026	FURNITURE BID

Project Number: 00.000.00

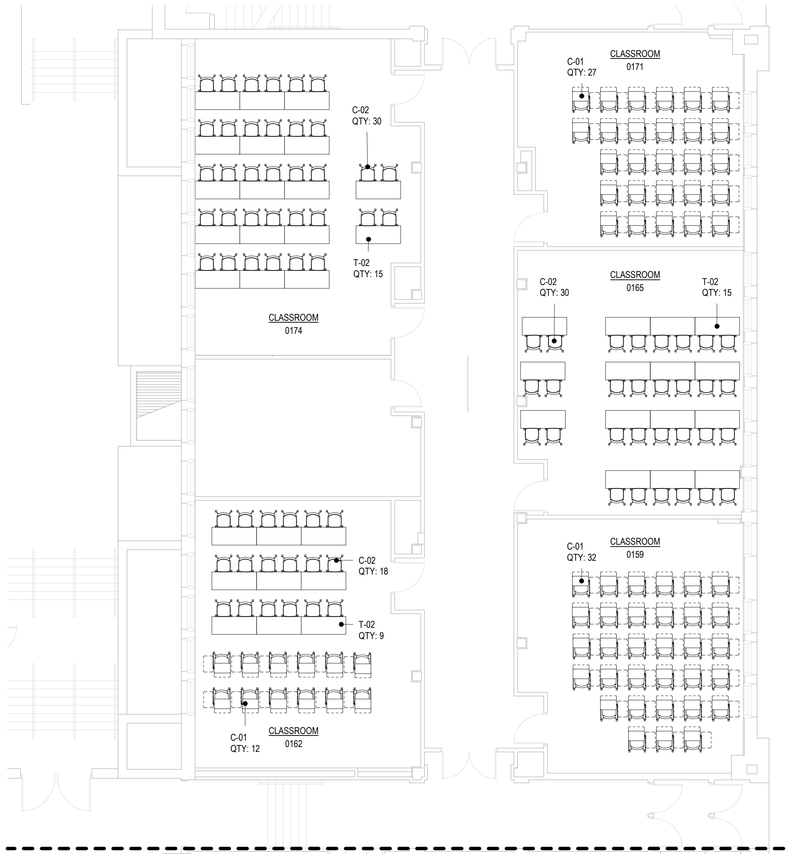
Drawn By: Author **Approved By:** Checker

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

Drawing Title
OLD MAIN - BASEMENT FURNITURE PLAN - AREA B

Drawing No:
A800B

Sheet Size: 24" x 36"



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OLD MAIN - BASEMENT FURNITURE PLAN - AREA C | 1/8" = 1'-0" | 1

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Registration Seal

No.	Date	Description
2	05/06/2026	FURNITURE BID

Project Number: 00.000.00

Drawn By: Author **Approved By:** Checker

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

Drawing Title
OLD MAIN - BASEMENT FURNITURE PLAN - AREA C

Drawing No:
A800C