



MICHIGAN SENATE

Appropriations Requests for Legislatively Directed Spending Items

1. The sponsoring Senator's First Name

Dayna

2. The sponsoring Senator's Last Name

Polehanki

3. The cosponsoring Senators names. All cosponsors must be listed. If none, please type 'n/a.' A signed letter from the sponsor approving the co-sponsorship and a signed letter from the member wishing to co-sponsor are required. Attach letters at question #9 below.

N/A

4. Name of the spending item's recipient:

City of Inkster

5. Physical address of the recipient:

26215 Trowbridge Inkster, MI 48141

6. If there is not a specific recipient, the intended location of the project or activity:

N/A

7. Name of the Senator and the district number where the legislatively directed spending item is located:

Dayna Polehanki, District 5

8. Purpose of the legislatively directed spending item. Please include how it provides a public benefit and why it is an appropriate use of taxpayer funding. Please also

demonstrate that the item does not violate Article IV, S 30 of the Michigan Constitution.

This funding request will support Phase II of the Inkster Cultural Center, transforming the completed core shell from Phase I into a fully finished community hub. Phase II will outfit the facility with flexible gathering space for public forums, youth programs, and weddings; curated gallery areas to preserve and exhibit local history and cultural artifacts; and a code-compliant commercial kitchen including fire-suppressed range, exhaust hood, and ample prep surfaces to support culinary classes, catered events, and small-business incubation. This investment will activate the Center as a revenue-generating venue, expand access to arts and heritage programming, and create a welcoming, multigenerational space that strengthens social ties and drives year-round economic activity in downtown Inkster.

9. Attach documents here if needed:

10. The amount of state funding requested for the legislatively directed spending item
\$500,000

11. Has the legislatively directed spending item previously received any of the following types of funding? (Check all that apply)
["State"]

12. Please select one of the following groups that describes the entity requesting the legislatively directed spending item
Local unit of government

13. For a non-profit organization, has the organization been operating within Michigan for the preceding 36 months?
N/A

14. For a non-profit organization, has the entity had a presence within Michigan for the preceding 12 months?
N/A

15. For a non-profit organization, does the organization have a board of directors?

N/A

16. For a non-profit organization, list all the active members on the organization's board of directors and any other officers. If this question is not applicable, please type 'n/a.'

N/A

17. "I certify that neither the sponsoring Senator nor the sponsoring Senator's staff or immediate family has a direct or indirect pecuniary interest in the legislatively directed spending item."

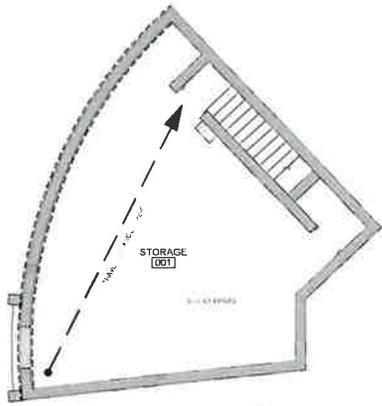
I certify

18. Anticipated start and end dates for the legislatively directed spending item

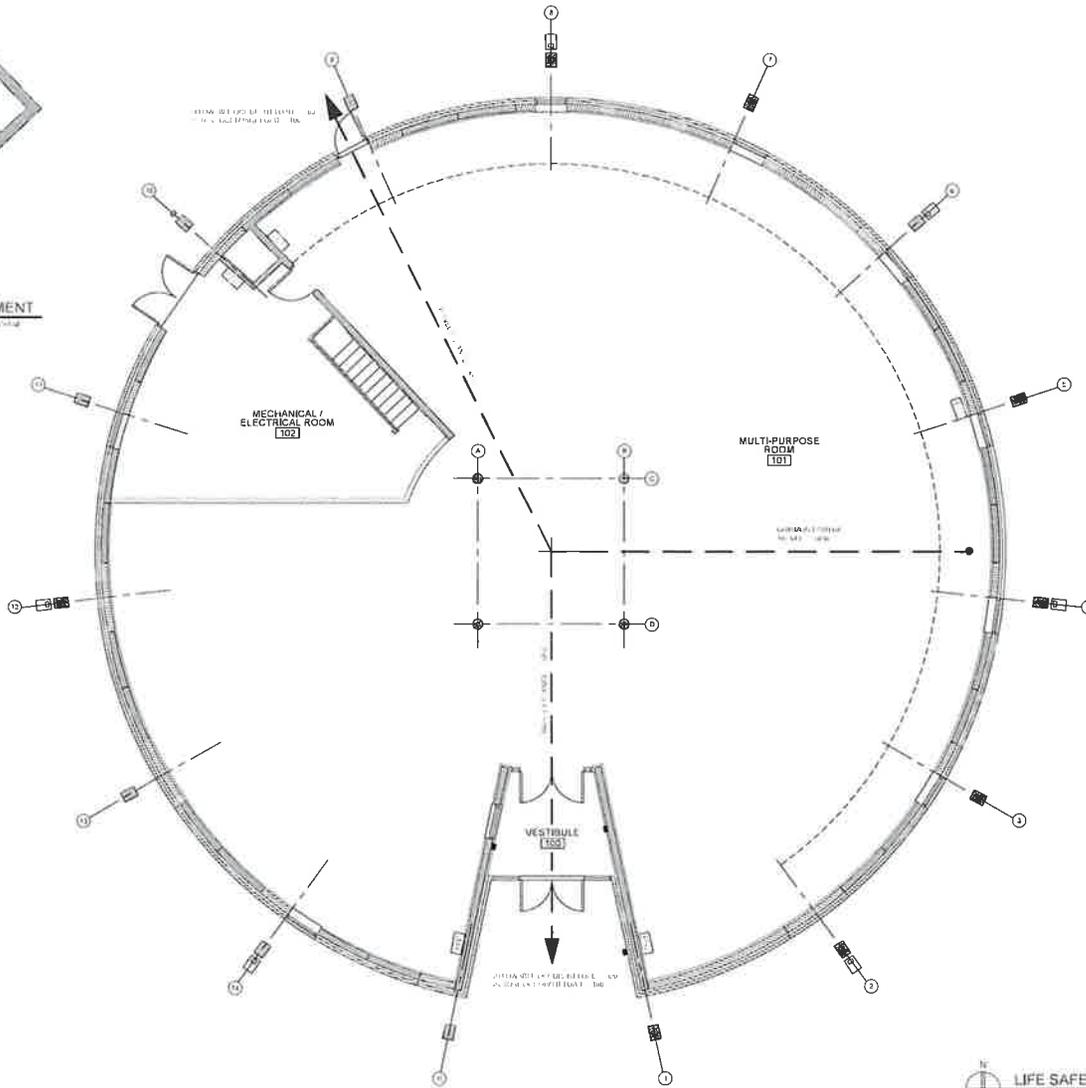
The project can begin 6 months after receiving funds. Estimated time to completion is 120 days.

19. Certification of accuracy

I certify



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



LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

PROJECT DATA & CODE COMPLIANCE CALCULATIONS

REGULATORY CODES:

- 2015 INTERNATIONAL BUILDING CODE FOR EXISTING BUILDINGS
- 2015 INTERNATIONAL BUILDING CODE (BIRMINGHAM AMENDMENTS)
- 2015 INTERNATIONAL FIRE & SAFETY CODE
- 2015 INTERNATIONAL MECHANICAL CODE (PARTIAL MECHANICAL AMENDMENTS)
- 2015 INTERNATIONAL ELECTRICAL CODE (PARTIAL ELECTRICAL AMENDMENTS)
- 2015 INTERNATIONAL MECHANICAL CODE (ALL IBC - PART 2 RULES)
- 2015 INTERNATIONAL FIRE & SAFETY CODE

REFERENCED CODES:

- 2018 IBC (PARTIAL) IBC - SAFETY CODE
- AMERICAN WITH DISABILITIES ACT

EXISTING OCCUPANCY CLASSIFICATION: ASSEMBLY (A-3) SECTION 105
NEW OCCUPANCY CLASSIFICATION: BUSINESS (B) ASSEMBLY (A-3) SECTION 105

EXISTING OCCUPANCY TYPE: A-3 ASSEMBLY (SECTION 105)
EXISTING STORIES: 1 STORY

ALLOWED RISE HEIGHT PER TABLE 105.4 **USE HEIGHT**
EXISTING BUILDING (FEET) **10.0 FT**

EXISTING RISE AREA - FIRST FLOOR **6,007 S.F.**
EXISTING BUILDING AREA - BASEMENT **5,363 S.F.**
TOTAL BUILDING AREA **11,370 S.F.**
TOTAL BUILDING RENOVATED AREA **6,365 S.F.**

DIAPHRAGM LOAD USE - SECTION 105.1 & 105.1.1
BUSINESS OCCUPANCY (A-3) (A-3) **6 OCCUPANTS**
A-3 OCCUPANCY (A-3) (A-3) **158 OCCUPANTS**
Mechanical Room (A-3) **6 OCCUPANTS**

REQUIRED EXIT WIDTH:
PER TABLE 1029.1.1 (A-3) (A-3) **0.124**
CALCULATED LOAD REQUIRED WIDTH (FEET) **1.7"**

NUMBER OF EXITS - SECTION 1009
PER TABLE 1009.1 REQUIRED - PER STORE **2**
EXISTING ACTUAL PROVIDED **2**
MEANS OF EGRESS EXIT DOOR SIZING - SECTION 1210.1.1
MIN. DOOR WIDTH (S&P) = 30" **2**
EXISTING DOOR WIDTH CLEAR = 50"

TRAVEL DISTANCE
PER TABLE 1017.2 FOR B-A-3 OCCUPANCY + 20' TRAVEL DISTANCE /
TO EGRESS DOOR (MAX. TRAVEL)

PER TABLE 1017.2 FOR B-A-3 OCCUPANCY + 20' TRAVEL DISTANCE /
TO EGRESS DOOR (MAX. TRAVEL)

WATER CLOSETS **REQUIRED MEN & WOMEN**

LAVATORIES **REQUIRED MEN & WOMEN**

DRINKING FOUNTAINS **REQUIRED 1**

SERVICE SINKS **REQUIRED 1**

REQUIRED TYPE ABC FIRE EXTINGUISHER CABINETS (FEC)



CITY OF INKSTER
26215 TROWBRIDGE ST
INKSTER, MI 48141

Prepared by:
CITY OF INKSTER
CULTURAL CENTER

2025 WATERING PERMITS HEALTH

City: _____
Project: _____
Date: _____
Scale: _____

Drawn by: _____
Checked by: _____
Date: _____

Sheet Title:
LIFE SAFETY PLAN & CODE ANALYSIS

Project Number: **24157**

Sheet Number: **LS-110**



CITY OF INKSTER
26215 TROWBRIDGE ST
INKSTER, MI 48141

CITY OF INKSTER
CULTURAL CENTER



Table with 2 columns: Item, Description. Includes sections for PART 1 GENERAL, PART 2 PRODUCTS, PART 3 EXECUTION, and PART 4 INSTALLATION.

DIVISION 04 - MASONRY
SECTION 04200
UNIT MASONRY

- PART 1 GENERAL
1.01 SECTION INCLUDES
A. Concrete block
B. Common brick
C. Mortar and joint
D. Reinforcement and anchorage
E. Flashings
F. Linolea
G. Accessories
1.02 RELATED REQUIREMENTS
A. Section 04201 - Masonry Mortar and Grouting
B. Section 07230 - Weather Barriers
C. Section 07520 - Sheet Metal Flashing and Trim
D. Section 07600 - Flashings
E. Section 07610 - Flashings
1.03 REFERENCE STANDARDS
A. ASTM A153A153M - Standard Specification for Zinc Coated (Hot Dip) Iron and Steel Hardware
B. ASTM A618/A618M - Standard Specification for Deformed and Plain Carbon Steel Bars for Concrete Reinforcement
C. ASTM A618/A618M - Standard Specification for Zinc Coated (Galvanized) Carbon Steel Wire
D. ASTM A951/A951M - Standard Specification for Steel Wire for Masonry Joint Reinforcement
E. ASTM A1064/A1064M - Standard Specification for Carbon Steel Wire and Welded-Wire Reinforcement, Plain and Deformed, for Concrete
F. ASTM C67/C67M - Standard Specification for Mortar for Masonry
G. ASTM C91/C91M - Standard Specification for Grout for Masonry
H. ASTM C91/C91M - Standard Specification for Masonry Cement
I. ASTM C114 - Standard Specification for Aggregate for Masonry Mortar
J. ASTM C150/C150M - Standard Specification for Portland Cement
K. ASTM C207 - Standard Specification for High-Strength Concrete Masonry Units
L. ASTM C218 - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)
M. ASTM C270 - Standard Specification for Mortar for Unit Masonry
N. ASTM C270 - Standard Specification for Grout for Masonry
O. ASTM C476 - Standard Specification for Grout for Masonry
P. BIA Technical Notes No. 7 - Water Penetration Resistance - Design and Detailing
Q. BIA Technical Notes No. 11 - Ceramic Glazed Brick Exterior Walls
R. BIA Technical Notes No. 260 - Brick Veneer and Stone Veneer
S. BIA Technical Notes No. 46 - Manufacture of Brick Masonry
T. TMS 402/402.2 - Building Code Requirements and Specification for Masonry Structures
1.04 SUBMITTALS
A. Product Data
B. Shop Drawings
C. Manufacturer's Certificate
D. Manufacturer's Certificate
1.05 QUALITY ASSURANCE
A. Comply with provisions of TMS 402/402.2
1.06 DELIVERY, STORAGE, AND HANDLING
A. Deliver handle and store masonry units to prevent mechanical damage and contamination by oil or moisture
PART 2 PRODUCTS
2.01 CONCRETE MASONRY UNITS
A. Common Block
B. Shop Drawings
C. Manufacturer's Certificate
D. Manufacturer's Certificate
2.02 BRICK UNITS
A. Manufacture
B. One Brick A-200
C. Facing Brick
D. Mortar Adhesive
E. Grout Application
F. Water
G. Accessories
2.03 MORTAR AND GROUT MATERIALS
A. Masonry Cement
B. Portland Cement
C. Hydraulic Lime
D. Mortar Adhesive
E. Grout Application
F. Water
G. Accessories
2.04 REINFORCEMENT AND ANCHORAGE
A. Reinforcing Steel
B. Joint Reinforcement
C. Multiple Wire Joint Reinforcement
D. Tie Bars
E. Metal
F. Adjustable Multiple Wire Joint Reinforcement
G. Insulation Clips
H. Flexible Anchors
I. Concrete Form
J. Wire Mesh
K. Vertical Adjustment
2.05 FLASHINGS

- A. Metal Flashing Materials
1. Fabricated Metal Flashing
2. Manufacture
3. Termination Bars
4. Dip Edge
5. Last Sillings and Capes
6. Cavity Mortar Control
7. Flashing Weeps and Sillings
8. Accessories
9. Weeps
10. Metal Flashing
11. Cavity Vents
12. Drainage Fabric
13. Mortar and Grout Materials
14. Mortar for Unit Masonry
15. Masonry below grade
16. Exterior Insulation
17. Exterior, non-anchored masonry
18. Interior, anchored masonry
19. Interior, non-anchored masonry
20. Non-Mortar Insulation
21. Sill Seal
22. Flashing Material
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100. Flashing Material

- A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted
B. Install flashing in accordance with manufacturer's instructions and BIA Technical Notes No. 7
C. External metal flashing top edge shall be finished with a minimum 1/8 inch (3.2 mm) radius
D. External metal flashing top edge shall be finished with a minimum 1/8 inch (3.2 mm) radius
E. External metal flashing top edge shall be finished with a minimum 1/8 inch (3.2 mm) radius
F. Lap and joint of flashing at least 1/2 inch (12.7 mm) minimum, and seal underneath with flashing sealant/finish
1.12 LINTELS
A. Install reinforced unit masonry lintels over openings where steel or precast concrete lintels are not specified
B. Openings up to 42 inches (1070 mm)
C. Openings from 42 inches (1070 mm) to 72 inches (1830 mm)
D. Openings over 72 inches (1830 mm)
E. Do not fabricate masonry lintels
F. Allow masonry lintels to obtain specified strength before removing temporary supports
1.13 GROUTED CONNECTIONS
A. Lap splices maximum 24 bar diameters
B. Support and secure reinforcing bars from displacement
C. Place and consolidate grout fill without displacing reinforcing
1.14 CONTROL AND EXPANSION JOINTS
A. Do not construct horizontal joint reinforcement through control or expansion joints
B. Install preformed control and expansion joint lengths
C. Size control joints as indicated on drawings, if not indicated, 24 inch (610 mm) wide and deep
D. Form expansion joint as detailed on drawings
1.15 JOINT FINISHING
A. As work progresses, install built-in metal door frames and glazed frames and other items to be built into the work and furnished under other sections
B. Install built-in items plumb, level and true to line
C. Set and anchor of metal door and glazed frames in adjacent mortar joints
D. Use non-metallic tools in cleaning operations
1.16 TOLERANCES
A. Install masonry within the size tolerances noted in TMS 402/402.2
1.17 CUTTING AND FITTING
A. Cut and fit for classes
1.18 FIELD QUALITY CONTROL
A. Independent testing agency will perform field quality control tests as specified in Section 04200 - Quality Requirements
1.19 CLEANUP
A. Remove excess mortar and mortar droppings
B. Repair defective masonry
C. Clean tool surfaces with cleaning solution
D. Use non-metallic tools in cleaning operations
1.20 PROTECTION
A. Without decreasing completed work, provide protective barriers at exposed exterior corners that are subject to damage by construction activities
DIVISION 05 - METALS
SECTION 05300
METAL FABRICATIONS
PART 1 GENERAL
1.01 SECTION INCLUDES
A. Shop fabricated steel and aluminum items
B. Hidden access panels
1.02 RELATED REQUIREMENTS
1.03 REFERENCE STANDARDS
A. AIAA-911 - Voluntary Specification for Anodized Architectural Aluminum
B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel
C. ASTM A572/A572M - Standard Specification for High-Strength Low-Alloy Steel
D. ASTM A588/A588M - Standard Specification for High-Strength Low-Alloy Steel
E. ASTM A595 - Standard Specification for Carbon Steel Bars, Rods, and Turned Rod 50,000 PSI Tensile Strength
F. ASTM A501/A501M - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Shapes
G. ASTM B221 - Standard Specification for Aluminum Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
H. ANS B1.101.1M - Structural Welding Code - Steel
I. SFC April 15, Steel and Shop Prime Metal Finishing Primer, 2004
1.04 SUBMITTALS
A. One Detail 012000 - Administrative Requirements, for submit procedures
B. Shop Drawings
PART 2 PRODUCTS
2.01 MATERIALS - STEEL
A. Steel Fabrication
B. Steel Tubing
C. Plates
D. Pipe
E. Bolt, Nut, and Washer
F. Shop and Touch-Up Primer
2.02 MATERIALS - ALUMINUM
A. Extruded Aluminum
B. Fabricated Items
C. Anodized Aluminum
D. Interior Aluminum Surface
E. Class II Natural Anodized Finish
PART 3 EXECUTION
3.01 INSTALLATION
A. Install frame plumb and level
B. Provide for erection loads
C. Field weld connections as indicated on drawings
D. Perform field welding in accordance with AWS D1.1/D1.1M
E. Obtain approval prior to site cutting or making adjustments not indicated
F. Mount panel frame to metal bed at indicated elevation, plumb and level
G. Mount panel cover in panel frame layout

Vertical text on the left margin, likely a project or drawing identifier.



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**SECTION 07120
MANUFACTURED OUTLETS AND DOWNPOUTS**

- PART 1 GENERAL**
- 1.01 SECTION INCLUDES**
- A. Pre-finished aluminum gutters and downpouts
 - B. Pre-cut corner splash pans
- 1.02 RELATED REQUIREMENTS**
- A. Section 05300 - Metal Fabrications - Downspout Heads
 - B. Section 07000 - Sheet Metal Flashing and Trim
 - C. Section 09115 - Exterior Finishing - Field painting of metal surfaces
- 1.03 REFERENCE STANDARDS**
- A. AAMA 611 - Specification for Anodized Architectural Aluminum, 2024
 - B. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pre-painted Organic Coatings on Aluminum Extrusions and Panels (with Coating Approval), 2022
 - C. ASTM B488 - Standard Specification for Gray Iron Castings, 2022
 - D. ASTM B52 - Standard Specification for Solder Metal, 2021
 - E. ASTM B248/B200M - Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate, 2014
 - F. SPANDEX (ASME) - Architectural Sheet Metal Manual, 2023
- 1.04 ADMINISTRATIVE REQUIREMENTS**
- A. Comply with SMACNA (ASMA) for snag components for rental items determined by a term occurrence of 1 in 5 years.
 - B. Comply with applicable code for tests and method of rain water discharge.
 - C. Maintain one copy of each document on site.
- 1.05 SUBMITTALS**
- A. See Section 01300 - Administrative Requirements for submittal procedures.
 - B. Product Data. Provide data on prefinished materials, performance ratings, and limitations.
 - C. Shop Drawings. Include locations, configurations, joining methods, finishing methods, locations, and installation details.
 - D. Samples. Submit two samples, 6 inch (152 mm) long, showing component design, finish, color, and configuration.
- 1.06 DELIVERY, STORAGE, AND HANDLING**
- A. Stack material to prevent bending, denting, or abrasion, and to provide ventilation. Slope to drain.
 - B. Prevent contact with materials that could cause discoloration, staining, or change.
- PART 2 PRODUCTS**
- 2.01 MANUFACTURERS**
- A. Gutters and Downpouts
 - 1. Homan Edge Systems - Wind Resistant Gutter - www.homanedgesystems.com/usa
 - 2. Substitutions: See Section 01600 - Product Requirements
 - B. Gutter and Cresting
 - 1. AT&T Industrial Inc. - www.atandt.com
- 2.02 MATERIALS**
- A. Aluminum. ASTM B208/B208M - #40, #50 temper, 0.104 in (2.6 mm) thick.
 - 1. Finish: Class II finish.
 - 2. Color: As scheduled.
 - B. Solder: ASTM B52 - 30-50/30/50 type.
- 2.03 COMPONENTS**
- A. Gutters: CDA rectangular profile.
 - B. Gutters: CDA rectangular profile.
 - C. Downpouts: CDA rectangular profile.
 - D. Anchors and Supports: Profiled to suit gutters and downpouts.
 - E. Anchoring Devices: In accordance with CDA requirements.
 - F. Gutter Supports: Brackets.
 - G. Downspout Supports: Brackets.
 - H. Fasteners: Galvanized steel with self-sealing washers.
- 2.04 FABRICATION**
- A. Form gutters and downpouts to profile and size indicated.
 - B. Fabricate with required connection pieces.
 - C. Form downspout square, true, and accurate in size in maximum possible lengths. Use of deflector or ducts detrimental to appearance or performance. Allow for expansion at joints.
 - D. Minimize exposed edges of metal.
 - E. Finish as gutter and downspout accessories, see schedule.
- 2.05 FINISHES**
- A. Class II Clear Anodized Finish: AAMA 611 A11.1/C22A11 - integrally colored anodic coating not less than 0.18 mil (0.004 mil) (0.013 mm) thick.
 - B. Modified silicone polyurethane coating. Based on metal system, comply with AAMA-2603.
 - C. Primer: Coal. Finish concealed side of metal sheets with primer compatible with finish system as recommended by finish system manufacturer.
- 2.06 ACCESSORIES**
- A. Splash Flans: Same metal type as downpouts, formed 2 (_____) inches (_____) by (_____) mm size, rolled edge (_____) inch (_____) mm high for overlapped placement.
 - B. Downspout Brackets: Single interior and/or eave corner or end-pipe points, integral splash slots and/or downspout and cover with neoprene gaskets.
 - 1. Configuration: Angular.
 - 2. Material: Cast iron, ASTM A48/A48M - casting thickness 3/8 inch (9.5 mm).
 - 3. Finish: Manufacturer's standard hot-dip applied powder coat finish.
 - 4. Color: To be selected by Engineer from manufacturer's standard range.
 - C. Products
 - a. Downspout/bracket and downspout J. R. Hoe & Son - www.downspout.com
 - b. Substitutions: See Section 01600 - Product Requirements
- PART 3 EXECUTION**
- 3.01 EXAMINATION**
- A. Verify existing conditions before starting work.
 - B. Verify that surfaces are ready to receive work.
- 3.02 PREPARATION**
- A. Protect concealed steel surfaces and surfaces in contact with dissimilar metals with protective backing paper to a minimum dry film thickness of 15 mil (0.38 mm).
- 3.03 INSTALLATION**
- A. Install gutters, downpouts, and accessories in accordance with manufacturer's instructions.
 - B. Sheet metal: Join lengths with formed seams welded together. Finish and seal joints to downpouts and accessories.
 - C. Slope gutters 1/4" and per foot (_____) percent minimum.
 - D. Install metal parts for full metal-to-metal contact. After soldering, wrap metal sheet with caulking mastic and three self-sealers.
 - E. Connect downpouts to downspout code at 2 inches (_____) above grade. Obstruct connection as required.
 - F. Set splash pans under downpouts. Secure in place with _____.

**SECTION 07840
FIRESTOPPING**

- PART 1 GENERAL**
- 1.01 SECTION INCLUDES**
- A. Firestopping systems
 - B. Firestopping of joints and penetrations in fire-resistance-rated and smoke-resistant assemblies, whether indicated on drawings or not, and other openings indicated
- 1.02 REFERENCE STANDARDS**
- A. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, 2008 (Reapproved 2016)
 - B. ASTM E119 - Standard Test Method for Fire Tests of Building Construction and Materials, 2022
 - C. ASTM E814 - Standard Test Method for Fire Tests of Penetration Firestop Systems, 2023a
 - D. ASTM E196 - Standard Test Method for Fire-Resistant Joint Systems, 2015 (Reapproved 2020)
 - E. ASTM E2107 - Standard Test Method for Determining Fire Resistance of Penetration Fire Barriers Using Intermediate Scale, Multi-story Test Apparatus, 2020
 - F. ASTM E2537 - Standard Test Method for Determining the Fire Resistance of Continuity Head of Wall Joint Systems Installed between Rated Wall Assemblies and Nonrated Horizontal Assemblies, 2023a
 - G. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymers, Materials to Fungi, 2015, with Editorial Revision (2021)
 - H. ITS (DIR) - Directory of Listed Products, Current Edition
 - I. FM (AQ) - FM Approved Guide, Current Edition
 - J. UL 1479 - Standard for Fire Tests of Penetration Firestops, Current Edition, Including All Revisions
 - K. UL 2078 - Standard for Tests for Fire Resistance of Building Joint Systems, Current Edition, Including All Revisions
 - L. UL (DR) - Choke Configurations Directory, Current Edition
 - M. UL (FRD) - Fire Resistance Directory, Current Edition
- 1.03 SUBMITTALS**
- A. See Section 01300 - Administrative Requirements for submittal procedures.
 - B. Schedule of Firestopping. List each type of penetration, size rating of the penetration assembly, and firestopping seal or design number.
 - C. Product Data. Provide data on prefinished materials, performance ratings, and limitations.
- 1.04 QUALITY ASSURANCE**
- A. Fire Testing. Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
 - 1. Listing in UL (FRD), FM (AQ), or ITS (DIR) will be considered as constituting an acceptable test report.
- 1.05 FIELD CONDITIONS**
- A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation. Maintain minimum temperature before, during, and after three days after installation of materials.
 - B. Provide ventilation in areas where adverse odors of materials may be emitted.
- PART 2 PRODUCTS**
- 2.01 MANUFACTURERS**
- A. Firestopping Manufacturers
 - 1. 3M Fire Protection Products - www.3m.com/fireprotection
 - 2. ADF Fire Protection Systems Inc. - www.adf.com
 - 3. CEACOR - HOTHROU Type-X Compressive Firestopping - www.comcast.com
 - 4. Fire Shield, LLC - Seam-Ring - www.fireshield.com
 - 5. HOBASITE - A Brand of HOBASITE Construction Products - www.hobasite.com
 - 6. Hottel Firestop Products - www.hottelfirestop.com
 - 7. Penetration Fire Protection Products - HOTHROU 2000CA - www.hothrou.com
 - 8. ReddySeal, a CAW Industrial Company, Mechanical 150 - General Purpose Firestop Sealant - www.reddyseal.com/firestop-solutions
 - 9. Trenchco Commercial Sealants & Waterproofing, The Chicago Acrylic - www.trenchco.com
 - 10. Substitutions: See Section 01600 - Product Requirements
 - B. Automatic Sprinkler Protection Gasket Manufacturers
 - 1. Substitutions: See Section 01600 - Product Requirements
- 2.02 MATERIALS**
- A. Firestopping Materials. Any materials meeting requirements.
 - B. Mold and Mildew Resistance. Provide firestopping materials with mold and mildew resistance rating of zero (0) in accordance with ASTM G21.
 - C. Primers. Use as follows: Hottel Firestop Products, HOTHROU 2000CA, and Hottel Firestop Products, HOTHROU 2000CA. Use as indicated.
 - D. Fire Ratings. Refer to drawings for required systems and ratings.
- 2.03 FIRESTOPPING ASSEMBLY REQUIREMENTS**
- A. Penetration Fire Stop Assemblies. Use system that has been tested according to ASTM E237 to have the resistance F Rating equal to required fire rating.
 - 1. Movement. Provide systems that have been tested to show movement capability as indicated.
 - 2. Temperature Rise. Provide systems that have been tested to show T Rating as indicated.
 - 3. Air Leakage. Provide systems that have been tested to show L Rating as indicated.
 - 4. Where fire assembly is not required to have a fire rating, provide systems that have been tested to show L Rating as indicated.
 - B. Head of Wall (HW) Joint System. Firestopping at Joints Between Fire-Rated Wall Assemblies and Non-Rated Horizontal Assemblies. Use system that has been tested according to ASTM E237 to have the resistance F Rating equal to required fire rating of wall assembly.
 - 1. Movement. Provide systems that have been tested to show movement capability as indicated.
 - C. Floor-to-Floor (FF) Floor-to-Wall (FW) Head-of-Wall (HW) and Wall-to-Wall (WW) Joints, Except Penimeter. Where Both Are Fire-Rated. Use system that has been tested according to ASTM E196 or UL 2078 to have fire resistance F Rating equal to required fire rating of the assembly in which the penetration is.
 - 1. Movement. Provide systems that have been tested to show movement capability as indicated.
 - 2. Air Leakage. Provide systems that have been tested to show L Rating as indicated.
 - 3. Wateringheads. Provide systems that have been tested to show W Rating as indicated.
 - 4. Listing by FM (AQ), ITS (DIR), UL (DR), or UL (FRD) in their certification documents will be considered evidence of successful testing.
 - D. Through Penetration Firestopping. Use system that has been tested according to ASTM E814 to have the resistance F Rating equal to required fire rating of penetration assembly.
 - 1. Temperature Rise. Provide systems that have been tested to show T Rating as indicated.
 - 2. Air Leakage. Provide systems that have been tested to show L Rating as indicated.
 - 3. Wateringheads. Provide systems that have been tested to show W Rating as indicated.
 - 4. Listing by FM (AQ), ITS (DIR), UL (DR), or UL (FRD) in their certification documents will be considered evidence of successful testing.
 - E. Acoustically Rated Firestopping. Provide system tested in accordance with ASTM E90 with STC rating of 50, minimum.
- 2.04 FIRESTOPPING SYSTEMS**
- A. Firestopping. Any method meeting requirements.
 - 1. Fire Rating. Use system that is listed by FM (AQ), ITS (DIR), or UL (FRD) and tested in accordance with ASTM E814, ASTM E119, or UL 1479 with F Rating equal to the rating of prefinished assembly and minimum T Rating Equal to F Rating and in compliance with other specified requirements.
- PART 3 EXECUTION**
- 3.01 EXAMINATION**
- A. Verify openings are ready to receive the work of the section.
- 3.02 PREPARATION**
- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other materials that could adversely affect bond of firestopping material.
 - B. Remove incompatible materials that could adversely affect bond.
 - C. Install backing materials to prevent liquid material from leakage.
- 3.03 INSTALLATION**
- A. Install materials in manner described in the test report and in accordance with manufacturer's instructions, completely covering openings.
 - B. Do not cover installed firestopping until inspected by authority having jurisdiction.
 - C. Install labeling required by code.
- 3.04 CLEANING**
- A. Clean adjacent surfaces of firestopping materials.
- 2.05 PROTECTION**
- A. Protect adjacent surfaces from damage by material installation.
- PART 3 GENERAL**
- 1.01 SECTION INCLUDES**
- A. Nonray gunnable joint sealants
 - B. Self-healing polyurethane joint sealants
 - C. Joint sealants and accessories
- 1.02 REFERENCE STANDARDS**
- A. ASTM D691 - Standard Test Method for Indentation Hardness of Elastomer-Type Sealants by Means of a Durometer, 2015 (Reapproved 2022)
 - B. ASTM D694 - Standard Test Method for Tensile Strength of Linear Sealants, 2011 (Reapproved 2022)
 - C. ASTM D919 - Standard Practice for Use of Sealants in Acoustical Applications, 2022
 - D. ASTM D920 - Standard Specification for Elastomeric Joint Sealants, 2018
 - E. ASTM D1193 - Standard Guide for Use of Joint Sealants, 2016 (Reapproved 2022)
 - F. ASTM D1245 - Standard Test Method for Shear of Polyure Sealants by Joint Sealants, 2022
 - G. ASTM D2246 - Standard Test Method for Rubber Property-Durometer Hardness, 2015 (Reapproved 2021)
 - H. ISO 6040 - Adhesion and Sealant Applications, 1986, with Amendment (2022)
- 1.03 SUBMITTALS**
- A. See Section 01300 - Administrative Requirements for submittal procedures.
 - B. Product Data. Submit manufacturer's technical data sheets for each product to be used, include the following:
 - 1. Physical characteristics including movement capability, VOC content, hardness, cure time, and color availability.
 - 2. List of backing materials approved for use with the specific product.
 - 3. Backing material recommended by sealant manufacturer.
 - 4. Information that product is known to satisfactorily adhere to and with which it is compatible.
 - 5. Substrate the product should not be used on.
 - 6. Substrates for which use of primer is required.
 - 7. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
 - C. Product Data for Accessibility Products. Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.
 - D. Color Cards for Selection. Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.
 - E. Samples for Verification. Where custom sealant color is specified, obtain color cards from Architect and submit at least two physical samples for verification of color of each required sealant.
- PART 3 PRODUCTS**
- 2.01 MANUFACTURERS**
- A. Spray Applied Sealants
 - 1. Beko Inc. - www.beko-usa.com
 - 2. Dow - www.dow.com
 - 3. Master Builders Solutions - www.master-builders-solutions.com/en-us/usa
 - 4. Pecora Corporation - www.pecora.com
 - 5. Sika Corporation - www.sika.com
 - 6. Sherwin-Williams Company - www.sherwin-williams.com
 - 7. Sika Corporation - www.sika.com
 - 8. Trenchco Commercial Sealants & Waterproofing - www.trenchco.com
 - 9. W. R. Meadows, Inc. - www.wrmeadows.com
 - B. Joint Sealants
 - 1. Sika Inc. - www.sika-usa.com
 - 2. Dayton Superior Corporation - www.daytonsuperior.com
 - 3. Dow - www.dow.com
 - 4. Master Builders Solutions - www.master-builders-solutions.com/en-us/usa
 - 5. Pecora Corporation - www.pecora.com
 - 6. CAHFFEY IS Companies - www.cahffeys.com
 - 7. Sika Corporation - www.sika.com
 - 8. Sherwin-Williams Company - www.sherwin-williams.com
 - 9. Trenchco Commercial Sealants & Waterproofing - www.trenchco.com
 - 10. W. R. Meadows, Inc. - www.wrmeadows.com
 - 11. SuperSealant - See Section 01300 - Product Requirements
- 2.02 JOINT SEALANT APPLICATIONS**
- A. Scope
 - 1. Exterior Joints
 - a. Do not seal exterior joints unless indicated on drawings as sealed.
 - b. Seal open joints except open joints indicated on drawings as not sealed.
 - 2. Seal the following joints:
 - 1) Wall expansion and control joints
 - 2) Joints between doors, windows and other frames on adjacent construction
 - 3) Joints between adjacent exposed materials
 - 3. Interior Joints
 - a. Do not seal interior joints unless indicated on drawings as not sealed.
 - b. Seal the following joints:
 - 1) Joints between door frames and window frames and adjacent construction
 - 2) Inboard metal seal and ceiling assemblies, joint joints between wall assemblies and ceiling assemblies, between wall assemblies and other construction between ceiling assemblies and walls
 - B. Do Not Seal
 - a. Interior wet areas in masonry
 - b. Joints indicated to be covered with replacement joint cover assemblies
 - c. Joints where sealant is specified to be furnished and installed by manufacturer of product to be sealed
 - d. Joints where sealant installation is specified in other details
 - e. Joints between insulated ceilings and walls
 - C. Exterior Joints. Use nonray gunnable sealant, unless otherwise indicated.
 - 1. Lap Joints in Sheet Metal Fabrications. Self-healing, nonray gunning.
 - 2. Lap Joints between Manufactured Metal Panels. Self-healing, nonray gunning.
 - 3. Control and Expansion Joints in Concrete Slab. Self-healing polyurethane or polyurethane sealant.
 - 4. Wall and Ceiling Joints in Nonmetal Areas. Acrylic emulsion latex sealant.
 - 5. Wall and Ceiling Joints in Metal Areas. Nonray polyurethane sealant for continuous liquid immersion.
 - 6. Type ____ Floor Joints in Wall Areas. Nonray polyurethane non-traffic grade sealant suitable for continuous liquid immersion.
 - 7. Wall, Ceiling, and Floor Joints Where Traffic Resistance is Required. Non-ray gunning equivalent self-primed polyurethane sealant.
 - 8. Joints between Tile in Wall Areas and Floors, Walls, and Ceilings. Moisture-resistant silicone sealant, white.
 - 9. Inboard Rated Assemblies. Acrylic emulsion latex sealant.
 - 10. Interior Control Joints in Interior Concrete Slabs. Self-healing epoxy sealant.
 - 11. Other Floor Joints. Self-healing polyurethane traffic-grade sealant.
 - D. Interior Wall Areas. Bathrooms, restrooms, kitchens, and food processing areas. Sealures in wet areas include plumbing fixtures, food service equipment, counters, cabinets, other wall items, and _____.
 - 1. Sealed rated assemblies, slabs and ceilings specified as ET-1 rated, non-rated construction.
 - 2. Areas Where Traffic Resistance is Required. As indicated on drawings.
- 2.03 JOINT SEALANTS (BY OTHERS)**
- A. Sealants and Primers. Provide products having low volatile organic compound (VOC) content that indicated in SOQ/MD 1158.
 - B. Colors. As selected by Architect from standard colors.
- 2.04 NONRAY JOINT SEALANTS**
- A. Nonray Gunnable Sealants. ASTM D691, Grade ND, Uses M and A, not expected to withstand continuous water immersion or traffic.
 - 1. Movement Capability. Five and nine 30 percent minimum.
 - 2. Resilience to Flexure (RFL). Resilience 30 to 100 percent unless otherwise indicated in accordance with ASTM D1248.
 - 3. Color. To be selected by Architect from manufacturer's standard range.
 - 4. Hardness Range. 13 to 25 Shore A, when tested in accordance with ASTM D2240.
 - 5. Cure. To be selected by Architect from manufacturer's standard range.
 - 6. Cure Type. Single-component, non-UV curing.
 - 7. Service Temperature Range. Minus 20 to 180 degrees F (Minus 29 to 82 degrees C).
 - B. Primer. Apply as follows:
 - 1. Primer. Apply as follows:
 - a. Sealants and Primers. Provide products having low volatile organic compound (VOC) content that indicated in SOQ/MD 1158.
 - b. Colors. As selected by Architect from standard colors.

CITY OF INKSTER
26215 TROWBRIDGE ST
INKSTER, MI 48141

CITY OF INKSTER
CULTURAL
CENTER

CITY OF INKSTER RD
INKSTER, MI 48141
3030



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|--------------|--------------------|
| Project Name | 26215 |
| Client | CITY OF INKSTER |
| Project No. | 26215 |
| Revision | 1 |
| Date | 10/24/2024 |
| Scale | AS SHOWN |
| Notes | SEE SPECIFICATIONS |

Project Number 24157

A-006



CITY OF INKSTER
26215 TROWBRIDGE ST
INKSTER, MI 48141

CITY OF INKSTER
CULTURAL CENTER



Project Number: 24157
A-008

Table with 2 columns: Item, Description. Includes sections for SUBMITTALS, MANUFACTURERS, PRODUCTS, FINISHES, ACCESSORIES, EXAMINATION, INSTALLATION, CLEANING, GENERAL, SECTION INCLUDES, RELATED REQUIREMENTS, and REFERENCE STANDARDS.

7 Glazing Sealed insulating units 1 inch (25.4 mm) thick, made of clear 1/4 inch (6 mm) thick fully tempered glass
8 Glazing Seal 1/4 inch (6 mm) thick fully tempered glass
9 Glazing See Section DB000
D Aluminum Frames for Doors, Sliding/Type or Transoms Extruded aluminum non-thermally broken or C-shaped sections, no steel components
1 Frame Depth 1/4 inch (6 mm)
2 Frame Depth To be used in accordance with drawings
3 Frames for Fixed Windows Sliding/Type or Transoms Treated in accordance with NFPA 2131 tested and labeled by UL (DRI) 115 (DR) or listing agency acceptable to authority having jurisdiction
4 Finish Same as doors
5 Weatherstripping Resilient-type gasket, at joints and head
6 Sliding/Type or Transoms Sealed insulating glass units, 1 inch (25 mm) overall thickness, with two panes of clear 1/4 inch (6 mm) thick fully tempered glass
7 Sliding/Type or Transoms Clear single pane of 1/4 inch (6 mm) thick fully tempered glass
8 Sliding/Type or Transoms Glazing See Section DB000
E Dimensions and Spacing As indicated on drawings, dimensions indicated are nominal
1 Provide the following clearances:
a Hinge and Lock Stems 1/8 inch (3.2 mm)
b Bottom Meeting Stems 1/4 inch (6.4 mm)
c At Top Rail and Bottom Rail 1/8 inch (3.2 mm)
202 COMPONENTS
A Flush Door Panels Without visible seams on back edge
1 Framing and Hardware Backup Extruded aluminum tubing 1/2 inch (12.7 mm) minimum thickness
2 Panelized Edges Extruded aluminum cap
3 Laminating Adhesive Manufacturer's standard low VOC materials
B Frames Extruded aluminum shapes, not less than 0.042 inch (1.1 mm) thick, reinforced at hinge and lock locations
1 Corner Brackets Extruded aluminum, finished with stainless steel screws
2 Trim Extruded aluminum, not less than 0.042 inch (1.1 mm) thick, removable snap-in type without exposed fasteners
203 FINISHES
A Class 1 Natural Anodized Finish Clear anodic coating, AAMA 611-AA-M10222M1, minimum dry film thickness (DFT) of 0.7 mils, 0.0007 inch (0.018 mm)
204 ACCESSORIES
A Fasteners Non-magnetic stainless steel, or other material selected by manufacturer as non-corrosive and compatible with aluminum components
B Brackets and Mounting Manufacturers high strength aluminum alloys when feasible; otherwise, non-magnetic stainless steel or steel not in contact with aluminum
C Bushings Coating Conspecific epoxide mastic, compounded for 30min (0.75 mm) thickness per coat
205 INSTALLATION
A Install doors and frames in accordance with manufacturer's instructions and approved shop drawings
B Set frame plumb, square level, and aligned to receive doors. Anchor frames to adjacent construction in strict accordance with manufacturer's recommendations and when specified, bolting.
C Where aluminum surfaces contact metal other than stainless steel, zinc, or small areas of white bronze, protect from direct contact by painting diameter metal with heavy coating of bituminous paint
D Hang doors and glazing hardware to achieve specified conditions and proper door operation
E Comply with applicable installation requirements. See Section DB000
SECTION DB0100 ACCESS DOORS AND PANELS
PART 1 GENERAL
101 SUBMITTALS
A See Section 01200 - Administrative Requirements for submittal procedure
B Product Data Provide access type, finishes, hardware, standardizations, and details of adjoining work
PART 2 PRODUCTS
201 ACCESS DOORS AND PANELS ASSEMBLED
202 WALL AND CEILING MOUNTED ACCESS UNITS
A Wall and Ceiling Mounted Units Factory fabricated door and frame, fully assembled units with corner joints welded, head and ground fast, utilize wall and ceiling or wall coordinate requirements with type of installation assembly being used for each unit
1 Material Steel
2 Style Expand frame with door surface flush with frame surface
a Double-Panel Sliding Operation Use dry-pull steel type frame
b Door Style Single thickness with vertical channel in edge
c Frames 16-gauge, 3.0184-in.-thick, 1.12-mm-minimum thickness
d Heavy Duty Frames 14-gauge, 0.5747-in.-thick, 1.88-mm-minimum thickness
e Single Panel Sliding Door Frames 18-gauge, 0.025-in.-thick, 1.18-mm-minimum thickness
3 Used Finish Painted
4 Powder and Factory Finish Poly-ester powder coat, color as selected by Architect from manufacturer's standard colors
5 Hardware
a Hinges for Non-Fire-Rated Units Concealed, standard force closure spring type
b Handle Flush
c Locking One steel wire and key for quarter turn lock
PART 3 EXECUTION
301 INSTALLATION
A Install units in accordance with manufacturer's instructions
B Install frames plumb and level in opening, and secure units rigidly in place
C Fasten units to provide convenient access to concealed equipment when necessary
SECTION DB0110 ALUMINUM-FRAMED STOREFRONTS
PART 1 GENERAL
101 SUBMITTALS
A See Section 01200 - Administrative Requirements for submittal procedure
B Product Data Provide component dimensions, describe components when assembly, anchorage and fasteners, glass and with door hardware and remove damage details
PART 2 PRODUCTS
201 ALUMINUM-FRAMED STOREFRONT
A Aluminum Framed Storefront Factory fabricated, factory finished aluminum framing members with gasket and related fastenings, anchorage and adjustment devices
1 Glazing Profiles Covered (Front Glazing)
a Frame Square perimeter gasket coating
b Factory finish all surfaces that will be exposed in completed assemblies
c Shopcoat surfaces still during fabrication to reduce surface abrasions to make in completed assemblies, including joint edges
d Coat concealed metal surfaces that will be in contact with other materials or decorative metals with aluminum paint
2 Front Door As selected by Architect from manufacturer's standard list
3 Fabrication Joints and corners flush, beveled, and weatherstripped, accessible filter and secondary prepared to receive anchors and hardware fasteners and attachment hardware from non-reusable as required for exposed loads
4 Connections Hardware types selected by and size determined by project architect, manufacturer, and prevent "back" effect in metal splices
5 System Internal Drainage Drain to the exterior by means of a weep drainage system, any water entering joints, condensation occurring in glazing, cleaning and required means, including weep system
6 Expansion/Contraction Provide for expansion and contraction within system components selected by glazing temperature range of 110 degrees F (40 degrees C) over a 12-hour period without causing detrimental effects to system components, anchorage, or other fastening elements
7 Movement Allow all movement between assembly and adjacent construction, without damage to components or deterioration of uses
8 Perimeter Clearance Maintain space between framing members and adjacent construction when allowing expected movement
B Performance Requirements
1 Wind Loads Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 15 mph winds and 10 second duration of aluminum load
2 Member Selection Limit member selection to those of glass in any position, with full recovery of glazing methods
3 Air Leakage 0.06 cfm @ 0.3 in. w.g. or maximum leakage of 0.001 in.3 per sq. ft. when tested in accordance with ASTM E283/E283M at 1.5 psi (12.5 Pa) pressure difference
202 COMPONENTS
A Aluminum Framing Members Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system
1 Glazing Stops Flush

203 MATERIALS
A Extruded Aluminum ASTM B221 (ASTM B221M)
B Fasteners Stainless steel
C Glazing Gaskets Type and seal application to achieve weather, moisture, and air infiltration requirements
PART 3 EXECUTION
301 INSTALLATION
A Install unit system in accordance with manufacturer's instructions
B Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities
C Provide assembly attachment to and attach to permanently fasten system to building structure
D Align assembly points and level. Free of warp or twist. Maintain assembly, dimensional tolerances, aligning with adjacent work
E Install all fastenings Turn up ends and edges, seal to adjacent work to form water tight joint
G Where fasteners penetrate all fastenings, make watertight by sealing and sealing fastener heads to seal fastening
H Flash finish installation in when spaces at perimeter of assembly to maintain continuity of thermal barrier
I Touch-up minor damage to factory applied finish, replace components that cannot be satisfactorily repaired
SECTION DB1110 ALUMINUM WINDOWS
PART 1 GENERAL
101 SECTION INCLUDES
A Extruded aluminum windows with fixed back, operating back, and FR panels
B Finery glazing
C Operating hardware
D Insect screens
102 REFERENCE STANDARDS
A AIAA/VDM/ACSA 1015.2/2440 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights 2022, with Errata (2022) (D)
B AAMA 811 - Voluntary Specification for Anodized Architectural Aluminum 2020
C ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric) 2021
D ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric) 2021
103 FINISHES
A See Section 01200 - Administrative Requirements for submittal procedure
B Product Data Include component dimensions, expansion, contraction, and glass and glazing hardware details, and descriptions of hardware and accessories
C Shop Drawings Indicate opening dimensions, elevations of different types, framed opening, anchorage locations, and installation requirements
D Glass Substitution Provide for substitution shop drawings or existing fabrication, submit one of the following showing compliance with specified grade:
1 Evidence of AAMA Certification
2 Evidence of CSA Certification
3 Test reports by independent testing agency remaining compliance and acceptable to authority having jurisdiction
PART 2 PRODUCTS
201 MANUFACTURERS
A Aluminum Window Manufacturers
1 Days Aluminum www.daysaluminum.com
2 TRACO www.traco.com
202 BASIS OF DESIGN: AIAA PERFORMANCE CLASS WINDOWS
A Grade AIAA/VDM/ACSA 1015.2/2440 having Performance Class of AW and Performance Grade at least as high as specified design pressure
B Five Thermal Breaks
1 Basis of Design: Kiewit, OptiMax S440 Series, 4 - 1/2" deep frame, thermally broken www.kiewit.com
203 ALUMINUM WINDOWS
A Aluminum Windows Extruded aluminum frame and seal; factory fabricated, factory finished, with operating hardware, related fastenings, and anchorage and attachment devices
1 Frame Depth 4-5/8" with (L), (H) (mm)
2 Fabrication Joints and corners flush, beveled, and weatherstripped, accurately fitted and secured, prepared to receive anchors, fasteners and fastenings concealed from view, reinforced as required for operating hardware and exposed loads
3 Perimeter Clearance Provide for expansion and contraction within system components selected by glazing temperature range of 110 degrees F (40 degrees C) over a 12-hour period without causing detrimental effects to system components, anchorage, or other fastening elements
4 Movement Allow all movement between assembly and adjacent construction, without damage to components or deterioration of uses
5 Perimeter Clearance Maintain space between framing members and adjacent construction when allowing expected movement
204 MATERIALS
A Extruded Aluminum ASTM B221 (ASTM B221M), 6063 alloy, T5 temper
205 FINISHES
A Class 1 Color Anodized Finish, AAMA 611-AA-M10222M1 Black, integral anodic coating not less than 0.7 mil (0.018 mm) thick
B Finish Color As selected by Architect from manufacturer's standard list
PART 3 EXECUTION
301 EXAMINATION
A Verify that wall openings and adjoining wall structure same materials are ready to receive aluminum windows, see Section 07200
302 FRAME WINDOW INSTALLATION
A Install windows in accordance with manufacturer's instructions
B Install window frame and sash to permit opening by accommodate construction tolerances and other irregularities
C Align window plumb and level, free of warp or twist. Maintain operational tolerances and alignment with adjacent work
D Install gasket and end angles
E Provide thermal isolation where components penetrate or abut through structure. Flash finish installation in when spaces at perimeter of assembly to maintain continuity of thermal barrier
F Install operating hardware not pre-installed by manufacturer
PART 1 GENERAL
101 SECTION INCLUDES
A Daylight with integral frame
B Operating mechanism
102 RELATED REQUIREMENTS
A Section 05500 - Metal Fabrication: Noncorrosive steel framing for rough opening
B Section 06100 - Rough Carpentry: Wood support cuts
C Section 07200 - Steel Metal Framing and Trim: Skylight counterflashing
103 REFERENCE STANDARDS
A AIAA/VDM/ACSA 1015.2/2440 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights 2022, with Errata (2022)
B AAMA 806 & 111 - Clearing and Maintenance Guide for Architecturally Finished Aluminum Components, 2010
C ASHRAE 62.1-11P - Energy Efficient for Buildings Except Low-Rise Residential Buildings, Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements
D ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric) 2021
E ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric) 2021
F ASTM E112 - Standard Practice for Inspection of Exterior Windows, Doors and Skylights (D)
G ICC 700 - International Building Code, Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements

SECTION DB1100 SKYLIGHTS
PART 1 GENERAL
101 SECTION INCLUDES
A Skylight Factory assembled glazing in aluminum frame, free of visual distortion and weathering
1 Check Circular dome
2 Glazing Single
3 Operation Operable for ventilation
4 Nominal Size As indicated on drawings
102 PERFORMANCE REQUIREMENTS
1 Green AIAA/VDM/ACSA 1015.2/2440 requirements for specific skylight type
2 Allow for expansion and contraction within system components selected by glazing temperature range of 110 degrees F (40 degrees C) without causing detrimental effects to system or components
3 Energy Code Compliance Comply with ICC (IBC) ASHRAE 62.1-11P, or the authority having jurisdiction as required for unit skylights
201 MANUFACTURERS
A See Section 01200 - Administrative Requirements for submittal procedure
B Manufacturer Warranty Provide five-year manufacturer warranty including coverage for leakage due to defective glazing materials or construction. Complete terms on Owner's name and register with manufacturer
PART 2 PRODUCTS
201 MANUFACTURERS
A Uni Skylights
1 Uni Skylights
2 Uni Skylights See Section 05500 - Product Requirements
202 SKYLIGHTS
A Skylight Factory assembled glazing in aluminum frame, free of visual distortion and weathering
1 Check Circular dome
2 Glazing Single
3 Operation Operable for ventilation
4 Nominal Size As indicated on drawings
103 PERFORMANCE REQUIREMENTS
1 Green AIAA/VDM/ACSA 1015.2/2440 requirements for specific skylight type
2 Allow for expansion and contraction within system components selected by glazing temperature range of 110 degrees F (40 degrees C) without causing detrimental effects to system or components
3 Energy Code Compliance Comply with ICC (IBC) ASHRAE 62.1-11P, or the authority having jurisdiction as required for unit skylights
204 DESIGN CRITERIA
A Load Skylight Design and size components to withstand dead loads and live loads caused by snow, but, also positive and negative wind loads acting on skylight unit without causing permanent set
1 Regulatory Requirements Comply with applicable code criteria for loads, including seismic loads
205 COMPONENTS
A Single Skylight Low-glass clear glazing
B Frames ASTM B221 (ASTM B221M) Extruded aluminum thermally broken, reinforced and welded corner joints, integral curb frame, mounting flange and counterflashing to receive existing framing system, with integral condensation collection gutter, gazing retained, clear glass on top, flush
206 ACCESSORIES
A Counterflashing Same metal type and finish as skylight frame
B Protective Back Coating Zinc polyphosphate ethyl
C Sealant Elastomeric sealant or polyurethane, compatible with material being sealed
PART 3 EXECUTION
301 EXAMINATION
A Verify existing conditions before starting work
B Verify that openings and substrate conditions are ready to receive work of the section
C Verify that cuts installed under other sections are complete
302 INSTALLATION
A Apply protective back coating on aluminum surface of skylight units that will be in contact with nonferrous metals or stainless metals
103 INSTALLATION
A Install unit skylights in accordance with manufacturer's instructions and ASTM E212
B Install aluminum curb assembly, fastening securely to roof decking. Flash curb assembly into roofing system
C Install skylight units and mount vertically to curb assembly, install counterflashing as required
D Apply sealant to achieve watertight assembly
304 CLEANING
A Upon completion of installation, thoroughly clean skylight aluminum surfaces in accordance with AAMA 806 & 110
B Remove protective material from prefabricated aluminum surfaces
C Wash steel exposed surfaces, wash surfaces clean
D Remove excess sealant
PART 1 GENERAL
101 SECTION INCLUDES
A Hardware for wood, aluminum, hollow metal, and FRP doors
B Hardware for fire-rated doors
C Hardware operated and controlled hardware
D Thresholds
E Weatherstripping and gasketing
102 RELATED REQUIREMENTS
A Section 281000 - Access Control: Electronic access control devices
103 REFERENCE STANDARDS
SECTION DB1100 DOOR HARDWARE
PART 1 GENERAL
101 SECTION INCLUDES
A Hardware for wood, aluminum, hollow metal, and FRP doors
B Hardware for fire-rated doors
C Hardware operated and controlled hardware
D Thresholds
E Weatherstripping and gasketing
102 RELATED REQUIREMENTS
A Section 281000 - Access Control: Electronic access control devices
103 REFERENCE STANDARDS

1. ACC: Project: 24157; Name: City of Inkster - Cultural Center; Administrator: Ben Berg; Project: 24157; Date: 11/15/2024; Time: 10:00 AM



- A 16 CFR 1201 - Safety Standard for Architectural Glazing Materials, Current Edition
- A 16 CFR 1202 - Safety Standard for Safety Glass Materials Used in Buildings - Safety Performance Specifications and Methods of Test, 2015 (Reaffirmed 2020)
- C ASTM C1030 - Standard Specification for Flat Glass - 2021
- D ASTM C1034 - Standard Specification for Heat Strengthened and Fully Tempered Flat Glass, 2018
- E ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass, 2019
- F ASTM C1378 - Standard Specification for Polybutyl and Vacuum Deposition Coatings on Flat Glass, 2021a
- G ASTM E 1303 - Standard Practice for Determining Load Resistance of Glass in Buildings, 2018
- H ASTM E 1349 - Standard Specification for Insulating Glass Unit Performance and Evaluation, 2019
- I NFRC 300 - Procedure for Determining Transmission Product Loss Factors, 2022
- J NFRC 200 - Procedure for Determining Fenestration Product Heat Gain Coefficient and Visible Transmittance at Normal Incidence, 2023
- K NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems, 2022

PART 2 PRODUCTS

- 2.01 MANUFACTURERS**
- A Glass Fabricators
 - B Flat Glass Manufacturers
 - 1 Viro Architectural Glass (formerly PPG Glass), www.viroglass.com/usa
 - 2 Substitutions: See Section 016000 - Product Requirements
 - C Laminated Glass Manufacturers
 - 1 Virocra Architectural Glass Segment of Apogee Enterprise, Inc., www.virocra.com/usa
 - 2 Substitutions: See Section 016000 - Product Requirements
- 2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES**
- A Provide type and thickness of exterior glazing assemblies to support specified dead loads, and to withstand the loads caused by positive and negative wind pressures normal to the face of glass.
 - 1 Comply with ASTM E 1300 for design load resistance of glass type, thickness, dimensions and maximum lateral deflection of supported glass.
 - 2 Provide glass edge support to be in accordance with the lateral deflection of supported glass to be less than 1/175 of free height under specified design load.
 - 3 Glass thicknesses listed are minimum.
 - B Weather-Resistant Barrier Glass: Provide complete assemblies that maintain a primary of building enclosure water-resistive barrier, vapor retarder and/or air barrier.
 - 1 In conjunction with weather barrier installed elsewhere on the exterior, see Notes.
 - C Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with requirements established with the following procedures and/or test methods:
 - 1 Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program
 - 2 Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 700 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program
 - 3 Solar Optical Properties: Comply with NFRC 300 test method

2.03 GLASS MATERIALS

- A Flat Glass: Provide float glass based glazing unless otherwise indicated.
 - 1 Annealed Type: ASTM C1034 Type 1, Tempered Type, Class I - Clear, Quality 1/2
 - 2 Heat Treated Type: Complies with ASTM C 1034
- B Laminated Glass: Flat glass lamination in accordance with ASTM C1172
- C Laminating Safety Glass: Complies with ANSI Z87.1, Class B or 16 CFR 1201 - Category I impact test requirements.

2.04 INSULATING GLASS UNITS

- A Manufacturers
 - 1 Viro Architectural Glass (formerly PPG Glass), www.viroglass.com/usa
 - 2 Substitutions: See Section 016000 - Product Requirements
- B Insulating Glass Units: Types as indicated.
 - 1 Dual-Sign: Certified by an independent testing agency to comply with ASTM E1300
 - 2 Coated Glass: Comply with requirements of ASTM C1378 for polybutyl dielectric or magnetic vapor deposition (opt-clear) type coatings on flat glass, organic resin glass, tint CO, coated overhead glass, tint CO, or coated overhead glass, tint CO
 - 3 Metal-Coat Systems: Aluminum, steel and stainless steels
 - 4 Spacer Color: Black
 - 5 Edge Seal:
 - a Color: Black
 - b Pulge Interpane Space: as by heretofore indicated
 - 6 Pulge Interpane Space: as by heretofore indicated
- C Type IG-U: Insulating Glass Units: Vision glass double glazed
 - 1 Applications: Exterior glazing unless otherwise indicated
 - 2 Glass between face glass and air
 - 3 Outdoor Gas: Annealed float glass, 1/4 inch (6.4 mm) thick, minimum
 - 4 Tint: Gray
 - 5 Coating: Self-cleaning type, on #1 surface
 - 6 Coating: Low-E (passive type), on #2 surface
 - 7 Thermal Transmittance (U-Value): Summar - Center of Glass, nominal
 - 8 Visible Light Transmittance (VLT): 21% percent, nominal
 - 9 Solar Heat Gain Coefficient (SHGC): 0.23, nominal
 - 10 Visible Light Reflectance Outside: 12 percent, nominal
- D Type IG-S: Insulating Glass Units - Safety glazing Applications
 - a Glazed area in exterior walls
 - 1 Glass thickness and panes shall be double.
 - 2 Other features required by applicable Federal, state and local codes and regulations
 - b Glass Type: Same as Type IG-U, insulate fully tempered float glass for both outdoor and indoor faces
 - c Panes: Clear
 - d Tint: Gray
 - e Total Thickness: 1 inch (25.4 mm)
 - f Metal edge spacer:
 - 1 Thermal Transmittance (U-Value): Summar - Center of Glass, nominal

2.05 BASIS OF DESIGN - INSULATING GLASS UNITS

- A Basis of Design - Insulating Glass Units: Vision glazing with low-e coating
- B Applications: Exterior insulating glass glazing unless otherwise indicated
- C Splice between IG-U filled with air
- D Thermal Transmittance (U-Value): Summar - Center of Glass, nominal
- E Coated Glass: Comply with requirements of ASTM C1378 for polybutyl dielectric or magnetic vapor deposition (opt-clear) type coatings on flat glass, organic resin glass, tint CO, coated overhead glass, tint CO, or coated overhead glass, tint CO
- F Edge Seal:
 - 1 Color: Black
 - 2 Pulge Interpane Space with dry air, heretofore listed

SECTION 051000 - DOORS

SECTION 051100 - LOUVERS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A Louvers, frames and accessories
- B Section 072000 - Sheet Metal Finishing and Irons
- C Section 072000 - Joint Sealants: Sealing joints between frames and adjacent construction
- D Section 082000 - Louvered Equipment Enclosures
- E Section 23004 - Pneumatic Control System for HVAC: Actuators for operable louvers
- F Section 23300 - Air Duct Accessories: Fire-resistive dampers associated with exterior wall louvers
- G Section 254000 - Fire Detection and Alarm: Smoke control connection

1.02 REFERENCE STANDARDS

- A AMCA 811 - Specification for Anodized Architectural Aluminum, 2024
- B AMCA 2094 - Laboratory Methods of Testing Louvers for Rating, 2022
- C AMCA 511 - Certified Range Program Product Rating Manual for Air Control Devices, 2021 with Editorial Revision (2022)
- D ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate, 2018

1.04 SUBMITTALS

- A See Section 01300 - Administrative Requirements for submittal procedures
 - B Product Data: Provide data describing design characteristics, minimum recommended air velocity, depth from face, materials and finish
 - C Shop Drawings: Indicate louvers layout plan and elevations, opening and clearance dimensions and tolerances, head jamb and wall details, blade configuration, screens, blank-off areas, reveal and frame
 - D Samples: Submit two samples 2 by 2 inches (50 by 50 mm) in size illustrating finish and color of exterior and interior surfaces
 - E Test Reports: Independent agency reports showing compliance with specified performance criteria
 - F Manufacturer's Certificate: Certify that products conform to or exceed specified requirements
 - G Maintenance Data: Include lubrication schedule, adjustment requirements
- 1.05 QUALITY ASSURANCE**
- A Manufacturer Qualifications: Company specializing in manufacturing products of the type specified in this section, with minimum three years documented experience
 - B Installer Qualifications: Company specializing in performing work of this nature, and with at least three years of documented experience
- 1.06 WARRANTY**
- A See Section 017600 - Closeout Submittals to additional warranty requirements
 - B Provide five year manufacturer's warranty against corrosion, metal degradation and connector failure of cover components
 - C Frame: Include five-year warranty against degradation of exterior finish

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A Louvers
 - 1 Anaka Company, LLC, www.anakacorp.com
 - 2 Substitutions: See Section 010000 - Product Requirements

2.02 LOUVERS

- A Louvers: Factory fabricated and assembled, complete with frame, railings, and accessories. AMCA Certified in accordance with AMCA 511
 - 1 Wind Load Resistance: Design to resist positive and negative wind load of 25 psf (of 1/2 in. wind speed) derived as permanent deflection
 - 2 Inable Louvers: Design to allow minimum of 0.01 cubic ft (0.283 l) per sq ft water penetration at indicated wind design velocity based on design flow and actual face area when tested in accordance with AMCA 504-L
 - 3 Drivable Blades: Continuous trim strip at front or rear of blade edge with vertical gutter tapered into both parties of frame

2.03 MATERIALS

- A Formed Aluminum: Formed sheet, ASTM B209/B209M, alloy 6061, temper
- B Glass:
 - 1 Clear: Clear Anodized Finish, AMMA 011 AA 11A 112222AA (regularly colored anodic coating not less than 0.4 mils (0.01 mm) thick)
 - 2 Color: As indicated on drawings
- C ACCESSORIES
 - A Screws: Frame of same material as louvers, with mechanical covers, removable screw anchors, installed on inside face of louvers frame
 - B Bird Screen: Intermesh wire mesh of steel, 1/4 gauge (0.064 inch (1.63 mm) diameter wire (12 inch (30 mm) open mesh, diagonal cloth)
 - C Steel System: 18-18 stainless steel
 - D Fasteners and Anchors: Galvanized steel
 - E Fastenings: Of same material as louvers frame, formed to required shape, angle length in one piece per fastening
 - F Head and Seal Fastenings: See Section 072000
 - G Sealant for Setting Joints and Seal Fastenings: Neoprene gasket type

PART 3 EXECUTION

- A Verify the prepared openings and Barlogs are ready to receive the work and opening dimensions are as indicated on shop drawings
- B Verify that field measurements are as indicated

3.02 INSTALLATION

- A Install louvers assembly in accordance with manufacturer's instructions
- B Coordinate with installation of Barlogs by others
- C Install louvers level and plumb
- D Set all members and all fastenings in continuous bed of sealant
- E Align louvers electrically to ensure installation with trim fastenings and alignment of moisture to exterior
- F Secure louvers frame in opening with concealed fasteners
- G Coordinate with installation of mechanical ductwork
- H Coordinate with installation of louvre actuators

3.03 ADJUSTING

- A Adjust operate louvers for freedom of movement of cover mechanism. Lubricate operating parts

3.04 CLEANING

- A Strip protective finish openings
- B Clean surfaces and components

3.05 SCHEDULES

SECTION 051100 - FIREBARS

SECTION 051200 - GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A Performance criteria for gypsum board assemblies
- B Metal slot wall framing
- C Metal channel ceiling framing
- D Fire-resistive sound insulation
- E Acoustic insulation
- F Gypsum wallboard
- G Cementitious backing board
- H Gypsum ceiling grid
- I Joint treatment and accessories
- J Acoustic sound-dampening wall and ceiling board

1.02 RELATED REQUIREMENTS

- A Section 072000 - Weather Barriers: Water-resistive barrier over sheathing

1.03 REFERENCE STANDARDS

- A ANSI Z200 - North American Standard for Cold-Formed Steel Nonstructural Framing, 2020
- B ANSI Z201 - North American Standard for Cold-Formed Steel Structural Framing, 2015, with Update (2020)
- C ANSI A108.1 - American National Standard Specifications for Inverse Installation of Cementitious Backer Units, 2023
- D ANSI A118.1 - American National Standard Specifications for Test Methods and Certification for Cementitious Backer Units, 2023
- E ASTM A533/A533M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvalume) for the Hot-Dip Process, 2022
- F ASTM A1033/A1033M - Standard Specification for Steel Sheet, Carbon, Manganese and Nonmetallic-Coated for Cold-Formed Framing Members, 2015
- G ASTM C1007 - Standard Specification for Insulation of Load Bearing (Tie-ins and Axial) Steel Studs and Panels Accessories, 2020
- H ASTM C475/C475M - Standard Specification for Joint Compounds and Joint Tapes for Finishing Gypsum Board, 2017 (Reapproved 2022)
- I ASTM C625 - Standard Specification for Mineral Fiber Boarded Frames, Jacketed for Light Frame Construction and Manufactured Housing, 2023
- J ASTM C734 - Standard Specification for Installation of Steel Framing Members to Reduce Smoke-Adapted Gypsum Panel Products, 2020
- K ASTM C849 - Standard Specification for Application and Finishing of Gypsum Board, 2023
- L ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Boards, 2019
- M ASTM C1119/C1119M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing, 2017
- N ASTM C1260 - Standard Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing, 2018 (Reapproved 2022)
- O ASTM C1325 - Standard Specification for Fiberglass Reinforced Cementitious Backer Units, 2022, with Editorial Revision (2023)
- P ASTM C1363/C1363M - Standard Specification for Gypsum Board, 2017
- Q ASTM C1626/C1626M - Standard Classification for Gypsum-Resistant Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels, 2023
- R ASTM D3272 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, 2022
- S ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials, 2022a
- T ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, 2023
- U ASTM E919 - Classification for Rating Sound Insulation, 2022
- V ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymer Materials to Fungi, 2015, with Editorial Revision (2021)
- W Gypsum: Application and Finishing of Gypsum Panel Products, 2021

1.04 SUBMITTALS

- A See Section 01300 - Administrative Requirements for submittal procedures
- B Product Data
 - 1 Provide data on metal framing, gypsum board, accessories, and joint finishing system
 - 2 Provide manufacturer's data on partition walls to structure connections allowing compliance with requirements
- C Steel Framing Industry Association (SFIA) Certification
 - 1 Submit current certification of metal studs and connectors used on project from an accredited requirements of International Building Code
 - 2 Submit current documentation of production and production accreditation. Keep copies of each on-site during and after installation, and present upon request

1.05 QUALITY ASSURANCE

- A Designer Qualification: Perform design under direct supervision of a Professional Engineer experienced in design of this work and licensed in the State in which the Project is located
- B SFIA Code Compliance Certification Program: www.CFSteel.org/usa. Use metal studs and connectors certified for compliance with International Building Code
- C Professional Contractor and Trade Partner Qualifications: SFIA-accredited contractor and fabricator. www.CFSteel.org/usa

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

- A Inverse complete assemblies complying with ASTM L540 and L540-1A
- B Inverse Partitions, Inverse Assemblies: Provide complete assemblies with the following characteristics:
 - 1 Acoustic Absorption: STC of 45 or calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90
 - 2 Fire-Resistance: 1-hour fire-resistance in accordance with ASTM E840 and GA-215 complying with the following:
 - 1) ICC-ES Evaluation Report # _____

2.02 METAL FRAMING MATERIALS

- A Steel Stud: ASTM A1033/A1033M, subject to the ductility limitations indicated in ANSI Z201 in equivalent
- B Manufacturers - Metal Framing Connections and Accessories
 - 1 ClarkDietrich, www.clarkdietrich.com/usa
 - 2 Jamco Industries, www.jamcoind.com
 - 3 Steel Connection Systems, www.steelconnection.com/usa
 - 4 Substitutions: See Section 016000 - Product Requirements
- C Nonstructural Framing System Components: ANSI S202 galvalume sheet steel of size and gauges necessary to comply with ASTM C734 for the opening indicated with minimum deflection of 1/120 in. (2.08 mm) per ft (305 mm)
 - 1 Studs: C-shaped with knurled or embossed faces
 - 2 Runners: H-shaped, sizes to match studs
 - 3 Ceiling Channels: C-shaped
 - 4 Framing Members: Hot-rolled shapes, minimum depth of 1 1/2 inches (32 mm)
 - 1) Clean Finish: www.clarkdietrich.com
 - 2) Substitutions: See Section 016000 - Product Requirements
- D Resilient Framing Channels: Single or double lip configuration, 1/2 inch (13 mm) channel depth
 - 1 Products
 - 1) ClarkDietrich, RC Deluxe Resilient Channel, www.clarkdietrich.com/usa
 - 2) Jamco Industries, www.jamcoind.com
 - 2 Substitutions: See Section 016000 - Product Requirements

2.03 PARTITION WALLS

- A Partition Walls To Structural Connections: Provide type, finish and to structure with legs of sufficient length to accommodate deflection for friction fit of studs cut short and locked in secondary deflection channel set aside but unattached to top lip

2.04 NON STRUCTURAL FRAMING ACCESSORIES

- A Ceiling Hangers: Type and size as specified in ASTM C154 for spacing required
- B Framing Connectors: ASTM A533/A533M G90 galvalume steel studs, secure cast rolled channel to wall studs for lateral bracing
 - 1 Products
 - 1) ClarkDietrich, FastBridge Clip (FB3), www.clarkdietrich.com/usa
 - 2) Substitutions: See Section 016000 - Product Requirements
- C Grid Suspension Systems: Steel grid system of main lines and support bars connected to structure using hanging wire
 - 1 Products
 - 1) ClarkDietrich Corporation, www.clarkdietrich.com/usa
 - 2) USG Corporation, Grid Suspension System, www.usg.com/usa
 - 3 Substitutions: See Section 016000 - Product Requirements

2.05 BOARD MATERIALS

- A Manufacturers - Gypsum Board Board
 - 1 American Gypsum Company, www.americangypsum.com/usa
 - 2 Carter Tread Corporation, www.cartertread.com/usa
 - 3 Georgia Pacific Corporation, www.gpcorp.com/usa
 - 4 Gold Bond Building Products, LLC (provided by National Gypsum Company), www.goldbondbuilding.com/usa
 - 5 USG Corporation, www.usg.com/usa
 - 6 Substitutions: See Section 016000 - Product Requirements
- B Gypsum Wallboard: Paper faced gypsum panels as defined in ASTM C1363/C1363M, sizes to minimize joints in plane, ends square cut
 - 1 Application: Used for interior surfaces and ceiling, unless otherwise indicated
 - 2 Thickness
 - a Vertical Surfaces: 5/8 inch (16 mm)
 - b Ceiling: 5/8 inch (16 mm)
- C Allow Permitted Wallboard
 - 1 Application: High moisture areas indicated
 - 2 Surface Abrasion: Level 1, minimum, when tested in accordance with ASTM C1525/C1525M
 - 3 Moist Resistance: Score of 10, when tested in accordance with ASTM D3272
 - 4 Type: Fire-resistive rated Type A, L, or M, as indicated
 - 5 Thickness: 5/8 inch (16 mm)
 - 6 Edges: Tapered
- D Backing Board For Wall Areas: One of the following products
 - 1 Application: Surfaces behind tile in wet areas, including tub and shower surrounds and shower ceilings
 - 2 Application: Noncombustible surfaces behind tile in wet areas including countertops and shower tubs
 - 3 Moist Resistance: Score of 10, when tested in accordance with ASTM D3272
 - 4 ANSI Criteria: Based on Non-gypsum-based, aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.5 or ASTM C1325
 - 5 Thickness: 5/8 inch (16 mm)
 - 6 Products
 - 1) USG Corporation, Fibergo Rapid Aqua-Tough AR Interior Panel ARX-Q 5/8 in (16 mm), www.usg.com/usa

CITY OF INKSTER
26215 TROWBRIDGE ST
INKSTER, MI 48141

Project
CITY OF INKSTER
CULTURAL
CENTER

PROJECT NO.
DRAWING NO.



DATE
SCALE

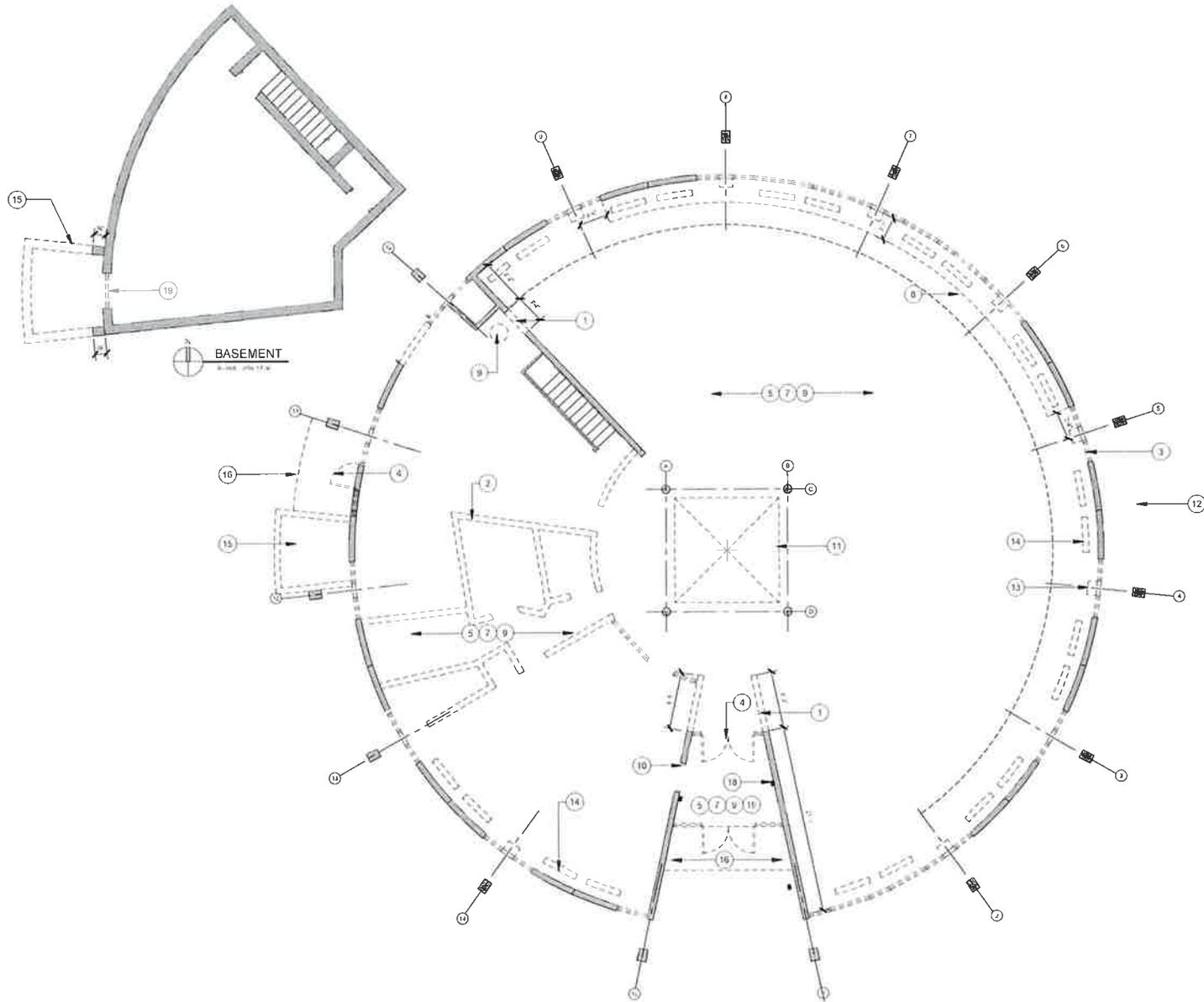
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Sheet No.

SPECIFICATIONS

Project No. 24157

Sheet No. A-010



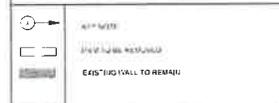
GENERAL DEMOLITION NOTES

- A. COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION WORK WITH THE ARCHITECT'S DRAWINGS AND NOTES.
- B. THESE DEMOLITION NOTES AND PLANS DO NOT FULLY REPRESENT ALL DEMOLITION WORK REQUIRED. CONTRACTOR SHALL VERIFY ALL CONDITIONS WITH CONTRACT DOCUMENTS BUT ARE INTENDED TO SERVE AS GENERAL DEMOLITION GUIDELINES. CONTRACTOR SHALL VERIFY ALL CONDITIONS WITH THE ARCHITECT, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF DEMOLITION. DEMOLITION WORK NOT INDICATED ON THIS PLAN.
- C. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE SALVAGED AND RELOCATED INCLUDING SAFE STORAGE OF SAME. UPON DEMOLITION, THE OWNER SHALL RETAIN THESE ITEMS UPON THE CONTRACTOR'S ITEMS NOT RETAINED SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SAME.
- D. ANCHOR ITEMS ARE REMOVED. PATCH SURFACES TO MATCH EXISTING SURFACES OR NEW FINISHES. WHERE DISCREPANCY "MATCHING" OF NEW OR EXISTING FINISHES SHALL EXTEND TO NEAREST FINISH BREAK OR FINISH MATERIAL FOR A CLEAN UNFINISHED APPEARANCE AT THE END OF CONSTRUCTION.
- E. DISCONNECT AND REMOVE ALL ITEMS AS INDICATED OR AS OTHERWISE REQUIRED TO CLEAR AREA FOR NEW WORK.
- F. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON THE PROJECT. PROVIDE BARRICADES, WARNING SIGNS, ETC.
- G. PROVIDE ALL DUST CURTAINS AND TEMPORARY PARTITIONS AS REQUIRED TO PROTECT EXISTING BUILDING DURING CONSTRUCTION.
- H. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO THIS SHEET. SEE ADDITIONAL SHEETS FOR FURTHER INFORMATION.
- I. MECHANICAL DUCT WORK TO BE REMOVED. FILL OR REPAIR DUCTS. MECHANICAL WALL OF BRICK AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR PLACEMENT OF NEW OR REUSED DUCTS.
- J. PLUMBING TO BE REMOVED TO CONCEALED AREA AND CAPPED OFF TO ARCHITECTURAL PLUMBING DRAWINGS FOR REPLENISHMENT OF NEW "TRAPS & DRAINS".
- K. ALL ELECTRICAL FEATURES, WIRING, CONDUIT AND HOUSINGS TO BE REMOVED BACK TO ELECTRICAL PANELS. REFER TO "REPTREC" AND ELECTRICAL DRAWINGS FOR PLACEMENT OF NEW FEATURES, RECEPTACLE SWITCHES, ETC.
- L. EXISTING EROD ROOF MEMBRANE TO BE REMOVED AND REPLACED. ASSESS CONDITION OF EXISTING INSULATION AND REMOVE AS NECESSARY.

DEMOLITION PLAN KEYNOTES:

- 1 REMOVE EXISTING WINDOW SILL FOR NEW WINDOW.
- 2 REMOVE WINDOW FULL HEIGHT.
- 3 REMOVE ALL EXISTING WINDOWS.
- 4 REMOVE EXISTING WINDOW AND FRAME.
- 5 REMOVE EXISTING WINDOW AND FRAME.
- 6 REMOVE ALL INTERIOR WALLS, DOORS, FRAMES, FINISHED FLOOR, CEILING.
- 7 CUT & CAP FRESH WATER SANITARY LINE - 4" DIA. PIPES (REFER TO P.U.M. AND DRAWINGS).
- 8 SAWCUT CONCRETE SLAB (AS SHOWN - 4") FOR NEW SANITARY LINE AND ON NEW FLOOR REFER TO MECH. AND STRUCT. DRAWINGS NEW FLOOR IS INDICATED ON THE FLOOR PLAN.
- 9 REMOVE EXISTING HVAC AND ELECTRICAL AS INDICATED ON ELEC. & MECH. DRAWINGS.
- 10 REMOVE FRAME.
- 11 REMOVE SILENCER IN ITS ENTIRETY.
- 12 REMOVE EXISTING ROOF MEMBRANE UNDERLAYER TO EXISTING FRAME AS SHOWN.
- 13 REMOVE EXISTING ROOF MEMBRANE UNDERLAYER TO EXISTING FRAME AS SHOWN.
- 14 CUT & CAP RADIANT HEAT PIPING TYP. (REFER TO MECH. DRAWINGS).
- 15 REMOVE THE CONCRETE SLAB AS INDICATED AND THE TOP 2" OF THE WALL TO REPLACE TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- 16 REMOVE CONCRETE WALK.
- 17 NOT USED.
- 18 REMOVE ROOFING.
- 19 REMOVE ROOF AND ASSOCIATED DUCTWORK (REFER TO MECH. DRAWINGS).

LEGEND:



City of Inkster
26215 TROWBRIDGE ST
INKSTER, MI 48141

Project
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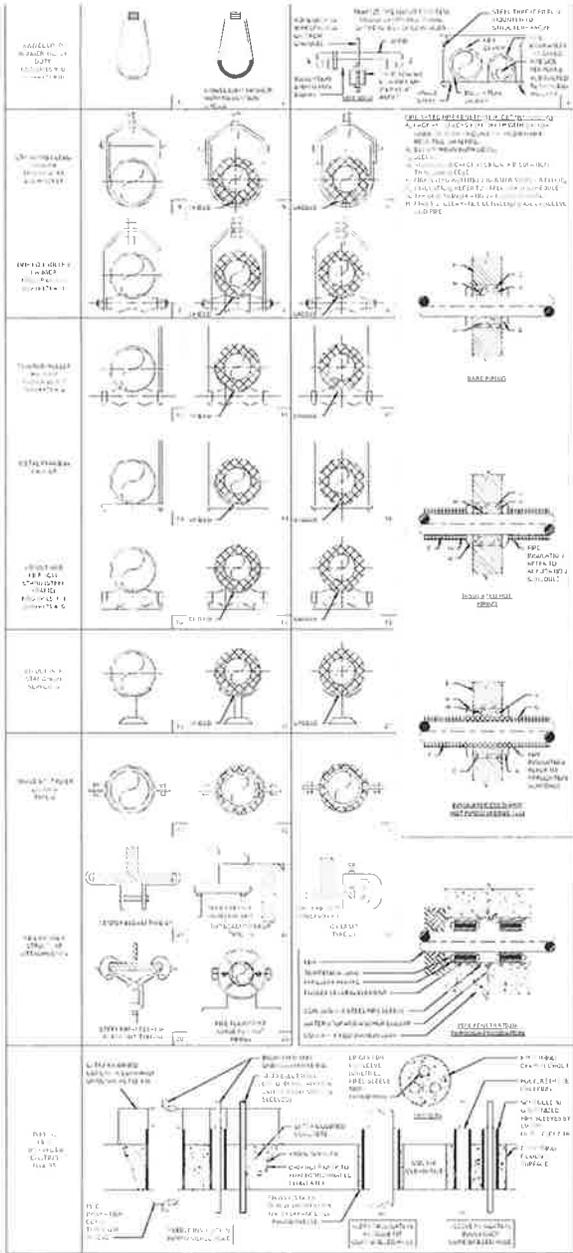
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| Date: | 12/12/2024 | Issued For: | David J. Hester |
| Drawn: | David J. Hester | Checked: | David J. Hester |
| Project: | 26215 TROWBRIDGE ST | Client: | CITY OF INKSTER |
| Sheet: | AD-110 | Scale: | AS SHOWN |

Sheet Title
**DEMOLITION
PLAN**

Project Number: 24157

Sheet Number: **AD-110**

DEMOLITION FLOOR PLAN
SCALE: AS SHOWN



PIPING APPLICATION SCHEDULE

| ITEM NO. | DESCRIPTION | PIPE | FLANGE | WELD | VALVE | TEE | ELBOW | REDUCER | END CONNECTION | STAINLESS STEEL | BLACK IRON | ALUMINUM | COPPER | BRASS | MONEL | TITANIUM | OTHER |
|----------|-------------|------|--------|------|-------|-----|-------|---------|----------------|-----------------|------------|----------|--------|-------|-------|----------|-------|
| 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. THE CUSTOMER HAS THE RIGHT TO REQUEST ANY OTHER UNITS.
2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

LOW PRESSURE DUCTWORK JOINT AND SUPPORT SCHEDULE

| ITEM NO. | DESCRIPTION | PIPE | FLANGE | WELD | VALVE | TEE | ELBOW | REDUCER | END CONNECTION | STAINLESS STEEL | BLACK IRON | ALUMINUM | COPPER | BRASS | MONEL | TITANIUM | OTHER |
|----------|-------------|------|--------|------|-------|-----|-------|---------|----------------|-----------------|------------|----------|--------|-------|-------|----------|-------|
| 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

DUCT APPLICATION SCHEDULE

| ITEM NO. | DESCRIPTION | PIPE | FLANGE | WELD | VALVE | TEE | ELBOW | REDUCER | END CONNECTION | STAINLESS STEEL | BLACK IRON | ALUMINUM | COPPER | BRASS | MONEL | TITANIUM | OTHER |
|----------|-------------|------|--------|------|-------|-----|-------|---------|----------------|-----------------|------------|----------|--------|-------|-------|----------|-------|
| 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |



Project: MASTER CULTURAL CENTER
 City: CHICAGO
 Date: 02/24/2017

MASTER CULTURAL CENTER
 CITY OF CHICAGO
 2700 ARCADE
 CHICAGO, IL 60604

STANDARD MATERIALS SCHEDULES

1.0 GENERAL NOTES
1.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
1.2 THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
1.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
1.4 THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
1.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.
1.6 THE CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT AT ALL TIMES.
1.7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING HISTORIC STRUCTURES.
1.8 THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
1.9 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
1.10 THE CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT AT ALL TIMES.

2.0 MATERIALS AND METHODS
2.1 ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AND SHALL BE SUBJECT TO INSPECTION AND TESTING.
2.2 ALL METHODS SHALL BE AS PER THE RELEVANT STANDARDS AND SPECIFICATIONS.
2.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
2.4 THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
2.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.
2.6 THE CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT AT ALL TIMES.

3.0 PROTECTION OF EXISTING UTILITIES AND STRUCTURES
3.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
3.2 THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
3.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.
3.4 THE CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT AT ALL TIMES.

4.0 ENVIRONMENTAL PROTECTION
4.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
4.2 THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
4.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.
4.4 THE CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT AT ALL TIMES.

5.0 SAFETY
5.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
5.2 THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
5.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.
5.4 THE CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT AT ALL TIMES.

6.0 COMPLETION AND HANDOVER
6.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
6.2 THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
6.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.
6.4 THE CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT AT ALL TIMES.

UNIVERSITY OF WYOMING
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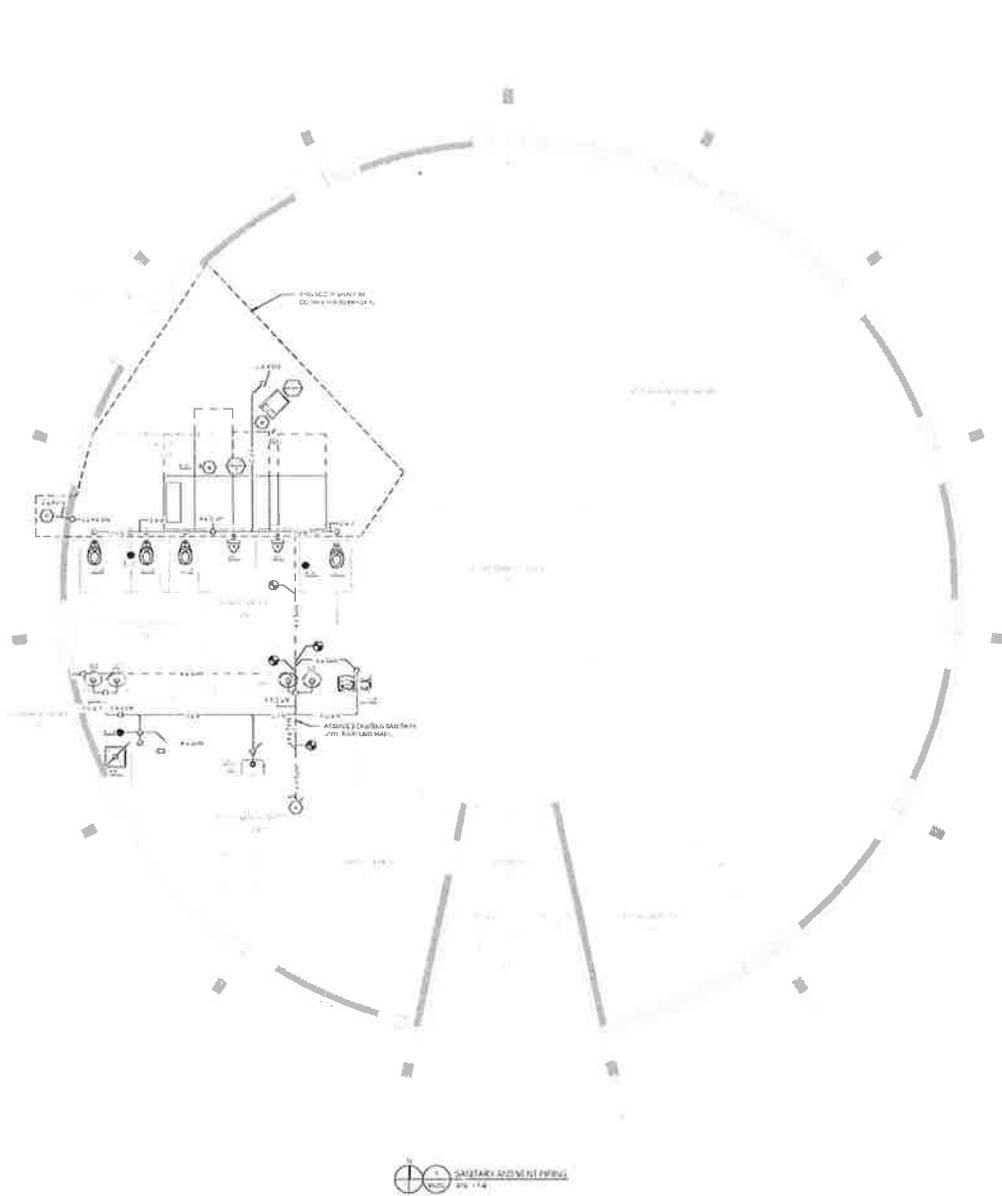
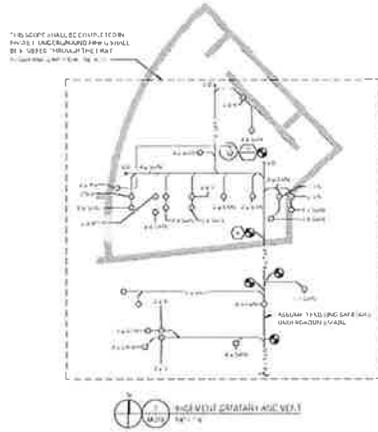
UNIVERSITY CULTURAL CENTER
1000 UNIVERSITY AVENUE
LARAMIE, WYOMING 82001

PROJECT NO. 12-005

DATE: 12-01-2012

SCALE: AS SHOWN

12-005



- ### PLUMBING GENERAL NOTES
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL PLUMBING CODE (IPC) AND THE NATIONAL PLUMBING CODE (NPC).
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL MECHANICAL CODE (IMC) AND THE NATIONAL MECHANICAL CODE (NMC).
 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL FIRE AND PROTECTION CODE (IFPC) AND THE NATIONAL FIRE AND PROTECTION CODE (NFPC).
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL ELECTRICAL CODE (IEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE NATIONAL BUILDING CODE (NBC).
 6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL MECHANICAL CODE (IMC) AND THE NATIONAL MECHANICAL CODE (NMC).
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- ### PLUMBING CONSTRUCTION KEYNOTES
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL PLUMBING CODE (IPC) AND THE NATIONAL PLUMBING CODE (NPC).
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PROJECT NO.: 2334-0872

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