Addendum #3 To
Request for Proposal
For Campus Health Clinic Relocation: Project 122-293203
Dated January 2, 2018

The Addendum must be acknowledged on your lump sum bid.

NOTE: You must have attended a prebid conference in order to be eligible to bid on a particular project. Receipt of minutes or addenda without being at a prebid conference does not qualify your company to bid.

1. Question: With regards to the low voltage
   a. Will a 2-post rack in the MDF be sufficient for this installation?
   b. Are there any demarcation feeds that need to be installed to the MDF for this project?
   c. Does the WSU have a manufacturer requirement or standard for termination for hardware?
   d. Will any cable tray be installed by others as a part of this project?
   e. Will J-hook supports be acceptable for cable support?

Answers for (a,b,c,d,e): SEE DIVISION 27 FOR COMMUNICATION SPECIFICATIONS

2. Question: There is a discrepancy in the rubber flooring for this project. Print A4-01 which has the finish schedule states RT-1 Rubber tile. However, the specs 09 65 19-5 state it is rubber sheet goods. This material comes in both tile and sheet goods. Please clarify which material is to be quoted.

Answer: SEE ATTACHED RESILIENT TILE SPECIFICATION SECTION 09 65 19

3. Question: Regarding the metal Lockers - The elevation of the Lockers in Break Room 1152 West Elevation calls out the lockers as 12x18x72 Double High Z-Metal Lockers. The manufacturers specified do not make a metal Z Locker.
   a. I could quote a 2 Tier Metal Locker or I could quote a Plastic Laminate/solid phenolic Z Locker by Ideal Manufacturing. Please advise.

Answer: SEE ATTACHED PLASTIC LAMINATE Z LOCKERS ARE WHAT IS NEEDED FOR THIS PROJECT. LOCKER SPECIFICATION AND DETAIL 6A/A5-02.

4. Question: The wood door specifications call for the door veneer to be per the architects finish schedule, yet I don’t see anything saying what it’s supposed to be on sheet A4-01. Please advise what’s the door species for the wood doors.

Answer: DOOR SPECIES IS CALLED OUT IN DOOR FINISH REMAKS ON SHEET A4-02. ALGOMA HARDWOODS WHITE BIRCH FINISH RA-1054.

5. Question: Pg. 09 91 00-2: 2. Primary Coating Type: Low VOC water-based epoxy paints. So all wall and ceiling paints are to be WB epoxy? YES. If yes, pre-catalyzed is acceptable? YES.

Answer:
6. Question: Pg. 09 91 00-2: 2. Primary paint systems: Rust-inhibiting primer plus two finish coats, sprayed application. Doors & frames are to be sprayed? If yes, would they already be installed or sprayed, then installed? If sprayed before installation, would there be a location on site to accomplish this?

Answer: HM DOOR FRAMES TO BE SPRAY PAINTED. DOORS ARE A WOOD VENEER FINISH. WSU to coordinate with contractor and base building contractor.

7. Question: Can “Construction Specialties” be an alternate manufacturer for the specialty div. 10 items?

Answer: YES FOR THE CHAIR RAILS AND CUBICAL CURTAINS AND TRACKS.

8. Question: Please verify the dumpster location placement for our work.

Answer: DUMPSTER PLACEMENT IS TO BE DETERMINED IN CONSULTATION WITH THE BASE BUILDING CONTRACTOR

9. Question: Please verify if there are any interior signage in our scope of work. If so, please provide a spec and a schedule. I do not see any called out in the drawings, aside from the exterior signage.

Answer: SEE ADDENDUM NO. 2 RESPONSES TO PRE-BID QUESTIONS.

10. Question: Please verify if there are any ceiling access doors on the project. If so, please provide a spec.

Answer: SEE ADDENDUM NO. 2 FOR RESPONSE.

11. Question: Per the prebid meeting, please provide any as-built for the fire sprinkler work. It’s needed to know where the mains are at, and where we need to tie in to.

Answer: FIRE SPRINKLER WORK WILL BE TO PROVIDE A COMPLETE WORKING SYSTEM CONNECTED TO A 3" MAIN STUBBED OFF AT THE DEMISING WALL

12. Question: Per the prebid meeting, building permit is not required on the project, correct?

Answer: CORRECT

13. Question: Will an office trailer be required for the duration of the project?

Answer: NO.

14. Question: Per the prebid meeting, please confirm if temp electricity is paid for by the owner.

Answer: TEMP ELECTRICITY IS TO BE PAID BY THE OWNER

15. Question: What specific work on the 1st floor will Gilbane and their trades still be working on while the Campus Health Clinic is under construction? Or will all Landlord work on the 1st floor be completed by the time this project starts?

Answer: ONE OF THE ALTERNATES IS TO MOBILIZE IN JULY AND DO THE UNDERGROUND PLUMBING. THE LANDLORD WILL POUR THE SLAB IN AUGUST. AFTER THAT THERE IS NO FURTHER LANDLORD WORK IN THE HEALTH CLINIC SPACE.

16. Question: Are the perimeter (exterior) walls being furred out under the scope of this project or will that be Landlord work? Drawing A1-02 calls for a floor mounted heat pump to be installed in Vestibule 1100. Is this heat pump to be enclosed or exposed in the vestibule?

Answer: THE FURRING OUT OF THE EXTERIOR PERIMETER WALLS WILL BE BY THE LANDLORD. THE HEAT PUMP IN THE VESTIBULE (HP-J) WILL BE EXPOSED.

17. Question: Drawing A3-02 calls for EM-1 to be installed in Vestibule 1100. Per Drawing A4-01, EM-1 is noted as an emergency eye wash station. Is this the correct designation or should an entry mat be installed in the Vestibule? If it is an entry mat, can you provide the specifications? What location should
the emergency eye wash unit be installed? Where are the emergency eye wash stations required to be installed?

Answer: **DRAWING A3-02 AND SPECIFICATION SECTION 12 48 13 WILL BE REVISED IN ADDENDUM NO. 3 TO READ FM-1 FOR THE FLOOR MAT IN VESTIBULE 1100. THE EMERGENCY EYE WASH STATION LOCATION IS CALLED OUT AS EM-1 ON SHEET A1-01 IN DIRTY LAB 1119.**

18. Question: Drawing A4-01 calls for an acrovyn chair rail to be installed only in Waiting Room 1101. Confirm this is the only location it is required.

Answer: **YES.**

19. Question: Is all fireproofing required by code and as shown in the project drawings being completed by the Landlord contractor? If no, where do we need to provide additional fireproofing?

Answer: **FIREPROOFING SHOWN AT EXISTING COLUMNS ON SHEET A5-03 IS BY LANDLORD. FIRESTOPPING IS REQUIRED AS DESCRIBED IN SPECIFICATION SECTION 07 84 00.**

20. Question: Spec 03 54 00 for Resurfacing and Cementitious Underlayment is included. Where is this product required since this is a new slab?

Answer: **SEE ADDENDUM NO. 2 RESPONSES TO PRE-BID QUESTIONS. THE CEMENTITIOUS UNDERLayment SPECIFICATION SECTION WAS INCLUDED IN THIS PROJECT JUST IN CASE ANY PART OF THE SLAB NEEDS IT. IT IS ANTICIPATED WITH A NEW SLAB ON GRADE NOT MUCH OF THE UNDERLayment WILL BE NEEDED. SAW CUTTING FOR THE UNDERGROUND PLUMBING IS IN THE BASE BID, SO LEVELING MIGHT BE NEEDED IN THESE AREAS AFTER THE SLAB IS PATCHED.**

21. Question: Drawing A3-01 & A3-02 call for White Boards to be CFCI. The spec for Display Boards (Spec Section 10 11 00) calls out glass boards. Are the spec requirements the required product accurate?

Answer: **THE SPECIFICATION REQUIREMENTS ARE ACCURATE.**

22. Question: Detail 1/A5-03 calls for Shear Flex Up Shades at the (6) storefront windows. What spec section covers the products required for these shades? The specs for SH-1 and SH-2 do not seem to apply.

Answer: **THE FLEX UP SHADES CALLED OUT IN DETAIL 1/A5-03 ARE SH-1, THIS IS ALSO CALLED OUT IN PLAN ON SHEET A3-02.**

23. Question: Detail 1/A5-03 shows a box around the storefront windows and references new awning signs. Does the box represent the awning and is the awning being provided by the Landlord or is it part of this project? If part of this

Answer: **THE AWNING IS PROVIDED BY THE LANDLORD.**

24. Question: Is the security system by GC or Owner? The drawings say not for construction.

Answer: **GC. “NOT FOR CONSTRUCTION” HAS BEEN REMOVED FROM THE ATTACHED DRAWINGS.**

25. Question: Please verify if there is self-leveling underlayment is required for the project and if spec 035400 Resurfacing and Cementitious underlayment is applicable to this project. Since the space will receive a new slab-on-grade, it wouldn’t make sense to have it.

Answer: **SEE ADDENDUM NO. 2 RESPONSES TO PRE-BID QUESTIONS. THE CEMENTITIOUS UNDERLayment SPECIFICATION SECTION WAS INCLUDED IN THIS PROJECT JUST IN CASE ANY PART OF THE SLAB NEEDS IT. IT IS ANTICIPATED WITH A NEW SLAB ON GRADE NOT MUCH OF THE UNDERLayment WILL BE NEEDED. SAW CUTTING FOR THE UNDERGROUND PLUMBING IS IN THE BASE BID, SO LEVELING MIGHT BE NEEDED IN THESE AREAS AFTER THE SLAB IS PATCHED.**

26. Question: The deduct is the sawcutting, digging, backfilling, concrete patching, and the u/g piping work, correct?
Answer: INCORRECT. BASE BID INCLUDES SAW CUTTING, CUTTING AND PATCHING OF THE 60 MIL VAPOR BARRIER, DIGGING, BACKFILLING, CONCRETE PATCHING AND THE UNDERGROUND PLUMBING WORK. SEE ADDENDUM NO. 2 SHEET G-00 AND M2-00 FOR REWORDING OF THE ALTERNATES. SEE ATTACHED DRAWINGS FOR NEW SLAB DEMO PLAN.

27. Question:
The locker specification-Section 105116 was not written for any domestic locker manufacturers.
   a. Sec 105116 2.2 A 5 calls for double pan doors – no domestic manufacturer does this
   b. Sec 105116 2.2 A 7 calls for locker sides to have no extra holes except need for the assembly of this project. All domestic locker manufacturers make “universal side sheets” with holes for any tiered locker.
   c. Black laminated plastic number plates and want them recessed, no domestic manufacturer does this.

Can you revise your locker specification to a standard locker specification? Please advise.

Answer: SEE ATTACHED LOCKER SPECIFICATION.

IMPORTANT- This is an addendum which MUST be acknowledged on your bid form

We will require two copies each of your lump sum proposals, vendor qualification questionnaire and your bid bond documents.

All questions concerning this project must be emailed to: Robert Kuhn, Procurement & Strategic Sourcing. Email: ac6243@wayne.edu, and copy Leiann Day, Associate Director of Procurement, at leiann.day@wayne.edu.

Do not contact either FP&M or the Design Firm directly as this may result in disqualification of your proposal.

Thank you for interest shown in working with Wayne State University.

Robert Kuhn
Sr. Buyer

CC: Allen Gigliotti (Project Manager), Leiann Day, Associate Director of Procurement, Attendee list.
Addendum Number: # 3

Project: WSU Campus Health Center
Location: 5235 Anthony Wayne Drive, Detroit, Mi
Project #: 122-293203 iDesign #1156-9
Date: 01-18-18

This addendum forms part of and modifies the Construction Bid Documents dated 12-14-2017. The following revisions shall be incorporated and shall take precedence over any conflicting part of the original construction bid documents. Bidder shall acknowledge receipt in the addendum as per the bidding instructions. NOTE: Nothing in this Addendum should affect pricing.

Item 1. Approved Substitution Manufacturers/Providers

1. CIF for the plastic laminate cabinets.
2. Construction Specialties for the Acrovyn Chair Rails and Cubical Curtains and Tracks.
3. Koroseal Interior Products for the Acrovyn Chair Rails.
4. National Guard for the Continuous Hinges and Thresholds.

Item 2. Architectural Addendum

Sheet #G-00, Cover Sheet
Description: Added sheet A0-00 to Drawing Index.

Sheet #A0-00, Composite Slab Demolition Plan
Description: Added sheet to show base bid demolition of slab on grade.

Sheet #A3-02, Finish, Furniture and Equipment Plan – Clinic (East) and Office
Description: Revised “EM-1” to FM-1” for floor mat in Vestibule 1100

Sheet #A5-02, Interior Elevations
Description: Revised note for lockers on elevation 6A/A5-02.

Sheet #SC-FP1 and SC-R1, First Floor Security Plan and Security Riser Diagram Details
Description: Removed “NOT FOR CONSTRUCTION” from sheets.
Specification Section: 01 00 15 List of Drawing Sheets
Description: Added sheet A0-00 to List of Drawings.

Specification Section: 09 65 19 Resilient Flooring
Description: Revised “Sheet” to “Tile” on page 5 of specification section.

Specification Section: 10 51 00 Lockers
Description: Revised to plastic laminate lockers.

Specification Section: 12 48 13 Floor Mats and Frames
Description: Revised “EM-1” to “FM-1” on page 1 of specification section.
Wayne State University

CAMPUS HEALTH CENTER

TENANT BUILD-OUT

ANTHONY WAYNE DEVELOPMENT

PROJECT NO. 122-293203

ISSUE: ADDENDUM NO. 3 01-18-2018

OWNER: WAYNE STATE UNIVERSITY
Design & Construction Services
5454 Cass Avenue
Detroit, Michigan 48202

PROJECT LOCATION: STUDENT HOUSING
5235 Anthony Wayne Drive
Detroit, Michigan 48202

ARCHITECT: iDesign Solutions
2331 Ridge Road, Suite 100
White Lake, MI 48383
Tel: 248.460.7310
www.iDesign-Solutions.info

MECH / ELECT ENGINEER:
Peter Basso Associates
1145 Livernois Suite 100
Troy, MI 48098
Tel: 248.879.5666
www.peterbassoassociates.com

Deduct Alternate No. 1: MEP under-slab work to be priced separately. As part of this alternate, saw cutting shall not be required.

Deduct Alternate No. 2: Provide alternate pricing to mobilize and install underground plumbing in July 2018. After underground plumbing is installed, contractor shall vacate the site and relocate to start the project in October 2018. As part of this alternate, saw cutting shall not be required.
CAMPUS HEALTH CENTER
1st Floor
Build Out

Interior Elevations

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DETROIT, MICHIGAN 48202
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# DRAWING LIST

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<th>Sheet Number</th>
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<td>Typical Interior Partition Types</td>
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**ARCHITECTURAL DRAWINGS**

- **A0-00** Composite Slab Demolition Plan
  - A1-00 Composite Floor Plan
  - A1-01 Floor Plan – Clinic (West)
  - A1-02 Floor Plan – Clinic (East) and Office
  - A2-00 Composite Reflected Ceiling Plan
  - A2-01 Reflected Ceiling Plan – Clinic (West)
  - A2-02 Reflected Ceiling Plan – Clinic (East) and Office
  - A3-00 Composite Finish, Furniture and Equipment Plan
  - A3-01 Finish, Furniture and Equipment Plan – Clinic (West)
  - A3-02 Finish, Furniture and Equipment Plan – Clinic (East) and Office
  - A4-01 Finish Schedule and Details
  - A4-02 Door and Millwork Schedules and Details
  - A5-01 Interior Elevations
  - A5-02 Interior Elevations
  - A5-03 Interior Elevations, Exterior Sign Elevation and Details

**MECHANICAL DRAWINGS**

- M0-01 Mechanical Standards and Drawing Index
  - M2-00 Underground Plumbing Plan
  - M2-01 Plumbing Plan
  - M3-01 HVAC Piping Plan
  - M4-01 Sheet Metal Plan
  - M6-01 Mechanical Details
  - M6-02 Mechanical Details
  - M7-01 Mechanical Schedules
  - M7-02 Mechanical Schedules
  - M7-03 Mechanical Schedules
  - M8-01 Temperature Controls

**ELECTRICAL DRAWINGS**

- E0-01 Electrical Standards and Drawing Index
  - E0-02 Electrical Standard Schedules
  - E2-01 Lighting Plan
  - E3-01 Power and Auxiliary Systems Plan
ADDENDUM NO. 3 | 01/18/18
CONSTRUCTION ISSUE | 12/14/17
WAYNE STATE UNIVERSITY
CAMPUS HEALTH CENTER
TENANT BUILD-OUT
ANTHONY WAYNE DEVELOPMENT, DETROIT, MI
WSU PROJECT NO. 122-293203

E5-01 One Line Diagram
E5-02 Panel Schedules
E7-01 Electrical Details

SECURITY DRAWINGS
SC-FP1 Security Floor Plan
SC-R1 Security Riser Details

END OF DRAWING LIST
SECTION 09 65 19

RESILIENT FLOORING

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:

1. (RT-1) Resilient tile flooring for commercial traffic.
2. Substrate preparation.

B. Related Work: The following items are not included in this Section and are specified under the designated Sections:

1. Division 3, Section “Resurfacing and Cementitious Underlayment.
2. Division 6, Section “Miscellaneous Carpentry” for plywood substrate and surface tolerances.

C. References (Industry Standards):

1. American Association of Textile Chemists and Colorists (AATCC):
   a. AATCC 134 Electrostatic Propensity of Carpets

   a. ANSI ESD S97.2 Floor Materials and Footwear – Voltage Measurement on a Person

3. ASTM International (ASTM):
   b. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
   c. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine
d. ASTM D2240  Standard Test Method for Rubber Property – Durometer Hardness

e. ASTM D3389  Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform, Double Head Abrader)

f. ASTM D6499  Standard Test Method for the Immunological Measurement of Antigenic Protein in Natural Rubber and its Products

g. ASTM E84  Standard Test Method for Surface Burning Characteristics of Building Materials


i. ASTM E662  Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

j. ASTM E1745  Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs

k. ASTM E2179  Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors

l. ASTM E2180  Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) in Polymeric or Hydrophobic Materials

m. ASTM F386  Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces

n. ASTM F710  Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

o. ASTM F925  Standard Test Method for Resistance to Chemicals of Resilient Flooring

p. ASTM F970  Standard Test Method for Static Load Limit

q. ASTM F1344  Standard Specification for Rubber Floor Tile

r. ASTM F1482  Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring

t. ASTM F1515 Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change
u. ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing
v. ASTM F1860 Standard Specification for Rubber Sheet Floor Covering With Backing
w. ASTM F2055 Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial
x. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
y. ASTM F2199 Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat
z. ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings
   aa. ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

4. International Organization for Standardization (ISO):
   a. ISO 140 Measurement of sound insulation in buildings and of building elements

5. National Fire Protection Association (NFPA):
   b. NFPA 258 Test Method for Specific Density of Smoke Generated by Solid Materials

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's product data, installation guide and maintenance guide for each material and accessory proposed for use.

B. Samples: Submit three representative samples of each product specified for verification.

C. Extra Stock: Submit extra stock equal to 2% of total used.
1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Provide resilient flooring manufactured by a firm with a minimum of 10 years’ experience with resilient flooring of type equivalent to those specified.
   1. Manufacturer’s quality management system must have ISO 9001:2000 approval.
   2. Provide resilient flooring products, including wall base, accessories and subfloor preparation products from one manufacturer to ensure color matching and compatibility.
   3. Manufacturer shall be capable of providing technical training and technical field service representation.

B. Installer Qualifications: Acceptable to manufacturer of resilient flooring or INSTALL (International Standards & Training Alliance) resilient certified for the requirements of the project with a minimum of 5 years of experience.

C. Sustainable Design Requirements:
   2. Construction waste take back program for the purpose of reducing jobsite waste by taking back uninstallable waste flooring. Details of the nora® program are available at www.nora.com/us.
   3. Flooring surfaces that are easily cleaned and do not require coatings and stripping, or use chemicals that may be hazardous to human health.
   4. Supply all required products that are CA 01350 compliant.
   5. Flooring that is free of materials known to be teratogenic, mutagenic or carcinogenic.
   6. Flooring that contains no polyvinyl chloride or plasticizers.
   7. Flooring that contains no halogens.
   8. Flooring that contains no asbestos.
   9. Provide all materials, components and accessories for a complete installation.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in labeled packages. Store and handle in strict compliance with manufacturer’s recommendations. Protect from damage due to weather, excessive temperatures, and construction operations.
B. Deliver materials sufficiently in advance of installation to condition materials to the required temperature for 48-hours prior to installation.

1.5 PROJECT CONDITIONS

A. Maintain temperature and humidity at service levels or the ambient temperature must remain steady (± 10ºF) and be between 59ºF and 80ºF for at least 48-hours prior, during and 72-hours after installation. The ambient relative humidity is recommended to be 50% RH ± 10%; however, dew point must be avoided.

1.6 WARRANTY

A. Provide manufacturer’s standard limited warranty for wear, defect and conductivity.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Manufacturer: nora systems, Inc.

B. Approved manufacturers: Pirelli, Johnsonite and Rope.

2.2 RESILIENT SHEET TILE FLOORING FOR COMMERCIAL TRAFFIC WITH PRE-APPLIED ADHESIVE

A. Rubber SHEET Tile Floor Covering (nora nTx):

1. Product Name: noraplan® Iona nTx 2.0 mm, Article 190B


3. Limited Wear Warranty: 5 years

4. Material: nora® vulcanized rubber compound 913 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury

5. Composition: Heterogeneous rubber compound

6. Color: 24 standard colors

7. Surface: Textured surface

8. Back of Tile/Sheet/Nosing: nora® nTx pre-applied adhesive
9. Material Size (ASTM F2055): Is required ~49.2 feet by 48 inches (15m by 1.22m), ≥ amount specified
10. Thickness (ASTM F386): Is required ~0.08 inches (2mm)
11. Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required Meets requirements
12. Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required 0.93 watts/sq.
13. Smoke Density (ASTM E662/NFPA 258): < 450 is required 186 non-flaming; 152 flaming
14. CAN/ULC-S102.2: FSV125 SDV370
15. Burn Resistance: Resistant to cigarette and solder burns
16. Slip Resistance (ASTM D2047): ≥ 0.5 is required Static coefficient of friction, Neolite dry 0.92, Neolite wet 0.91 (not recommended for ramps)
18. VOC’s: This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 compliant
19. Latex Allergies (ASTM D6499): Inhibition Elisa, results are below detection level
20. Sound Absorption (ASTM E2179/ISO 140): Δ IIC 11, Δ Lw 8dB (compare only Δ values)
21. Sound Generation: 67.9 dBA, 69.9 dBC and 22 Sones, Independently tested
22. Hardness (ASTM D2240): ≥ 85 is required Shore type “A”, 92
23. Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required Residual compression of 0.003 inches with 800 lbs.
24. Rolling Load Limit: ≤ 450 lbs. / sq. inch, with no forklift traffic
25. Abrasion Resistance (ASTM D3389): ≤ 0.035 oz. (1.0g) is required 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.008 oz. (0.24g) weight loss
26. Elongation (ASTM D412): ≥ 300 lbs. per sq. inch is required Modulus @ 10% is 913.1 lbs. per sq. inch
27. Oil & Grease Resistance: No
28. Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 is required Easily achieved with all batches and regular maintenance
29. Light Resistance (ASTM F1515): Avg. $\Delta E \leq 8.0$ is required
   Easily achieved with all batches and regular maintenance

30. Static Generation (AATCC 134/ANSI ESD S97.2):
   < 2000 Volts at 20% RH

31. Thermal Transmission (ASTM C518):
   R-value of 0.04

32. Cleaning:
   Cleaned and maintained effectively using water, nora® cleaning pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic.

33. Shine:
   Higher shine achieved by buffing without any artificial topical applied coatings

34. Stain Removal:
   Samples of the product must be provided for stain removal testing by the owner. Sample size must be 24 inches by 24 inches, pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate and alcohol based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations.

35. Substrate Preparation:
   Per ASTM F710 and the nora® Installation Guide

PART 3 - EXECUTION

3.1 GENERAL CONTRACTOR RESPONSIBILITIES

   A. Supply a safe, climate controlled building and subfloor as detailed in the Manufacturer’s Installation Guide.
B. A subfloor that meets the requirements of ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring is required, or as detailed in the nora Installation Guide or nora® nTx Installation Guide as appropriate.

C. A secure storage area that is maintained permanently or temporarily at ambient service temperature and humidity (except walk in freezers or similar), or 68°F ± 5°F and 50% ± 10% relative humidity, for at least 48-hours prior to and during the application of the flooring, so the flooring contractor can acclimate the flooring materials is required.

D. An installation area that is weather tight and maintained either permanently or temporarily at ambient service temperature and humidity (except walk in freezers or similar), or 68°F ± 5°F and 50% ± 10% relative humidity, for at least 48-hours prior to, during and 72-hours after the application of the flooring is required.

E. Areas with direct prolonged exposure to sunlight should be protected with the use of Low E glass doors and windows or facades.

F. Areas of the flooring that are subject to direct sunlight through doors or windows should have them covered using blinds, curtains, cardboard or similar for the time of the installation and 72-hours after the installation to allow the adhesive to cure. Note: These areas should be installed using wet adhesives only.

G. Prevent all traffic for a minimum of 12-hours and rolling loads for 72-hours to allow the adhesive to cure. If required, after 12-hours protect the flooring from damage during construction operations using Masonite, plywood or a similar product, ensuring first that the flooring surface is free of all debris. Lay panels so that the edges form a butt joint and tape the joint to prevent both movement and debris entrapment underneath them. Inspect immediately before covering and after removal for final acceptance.

H. Have the flooring cleaned no sooner than 72-hours, unless given written permission from the manufacturer, after the installation using manufacturer’s recommendations or a standard method as detailed in the appropriate Manufacturer Maintenance Guide.

3.2 FLOORING CONTRACTOR RESPONSIBILITIES

A. Provide trained installers that have at least one of the following:

1. Approved by manufacturer for all of the requirements of the project or INSTALL (International Standards & Training Alliance) certified for the requirements of the project.

2. An effective installation manager, to manage the project, installers, and ensure that all of the required procedures are followed as detailed in the manufacturer Installation Guide.
B. Follow all requirements in the appropriate Manufacturer Installation Guide.
SECTION 10 51 16

LOCKERS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Wardrobe lockers.

1.2 RELATED SECTIONS

A. Related sections: The following sections contain requirements related to this section:
   1. Division 6, Section “Miscellaneous Carpentry”.
   2. Division 9, Section “Gypsum Board Assemblies”.
   3. Division 9, Section “Non-structural Metal Framing”.
   4. Division 8, Section “Wood and Plastic Doors”.

1.3 REFERENCES

A. ADAAG - Americans with Disabilities Act, Accessibility Guidelines.

1.4 SUBMITTALS

A. Product Data: Manufacturer’s data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

B. Shop Drawings:
   1. Dimensioned drawings including plans, elevations, and sections to show locker locations and interfaces with adjacent substrates.
   2. Details of assembly, erection, anchorage and clearance requirements.

C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer’s full range of available colors and patterns.

D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer’s unopened packaging until ready for installation.

1.6 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer’s absolute limits.

1.7 WARRANTY
A. Lockers shall be warranted for a period of five years against defective parts and workmanship, excluding vandalism and improper installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:
1. Interior/Medart.
2. Debourgh Manufacturing Co.
4. Penco Products.
5. Lyon Metal Products.
7. Ideal Products, Inc.

B. Substitutions: are subject to the review and approval of the Architect. All products for consideration require documentation of equivalent performance to be submitted by the contractor.

2.2 LOCKERS

A. Standard Lockers:
1. Height: As per architectural drawings.
2. Depth: As per architectural drawings.
3. Width: As per architectural drawings.
4. Tier: As per architectural drawings.

Doors: Doors shall be of a double pan design consisting of an outer panel welded to an inner panel to form a rigid box construction that resists prying. The outer panel shall be double flanged on all four edges and the inner panel single flanged on all four edges, providing rigidity when both panels are welded together. A structural and sound deadening 1 inch (25 mm) cell honeycomb core shall be bonded to the inner surfaces. The door shall be flush with the frame and include a recessed handle and recessed number plate. Doors are hinged on the right and swing from left to right.

a. Inner Panel: 24 gauge (0.607 mm).
b. Outer Panel: 20 gauge (0.912 mm).

5. Doors, End Panels, Sloped Tops:
   a. Plastic laminate, high pressure, class II-B fire retardant VGS-GP28 ¾” STD PB, UL & HPMA.
   b. Square corners edges finished with .032” thickness, vertical grade or 1mm PVC poly vinyl chloride thermal glued tape to match plastic laminate (PVC).
   c. ¾" thickness 48 lb. industrial grade particle board with choice of vertical grade fire retardant (class II-B) plastic laminate for exterior finish and interior Wilsonart 1573 vertical grade frosty white cabinet liner.

Frame: Both vertical members shall be not less than 16 gauge (1.519 mm) and formed into a rigid channel 5/8 inch (16 mm) wide exposed frame and 2-7/16 inches (62 mm) side depth. The frame shall be completed by 3 inches (76 mm)
high top and bottom cross members of not less than 18 gauge (1.214 mm) formed as an open box channel and welded to the verticals. The bottom frames' full-width lintel extends back and down to form a rigid box to support the bottom shelf. Both vertical frame members shall be formed to offer a full-length 7/16 inch (11 mm) wide continuous door strike. The latch vertical member shall include a welded 11 gauge (3.030 mm) padlock hasp together with a 7/16 inch (11 mm) O.D. air-cushioned rubber bumper. No fasteners shall be exposed on fronts of locker doors or frames.

Body: Sides and backs shall be no less than 24 gauge (0.617 mm) and shall not contain extra unnecessary holes unless otherwise specifically used for the assembly of the lockers and accessories on the project. Edges shall be formed to provide a strong and rigid assembly when bolted or riveted together. Locker backs are flanged at right angles providing a triple thickness of metal at the back corner connections. Shelves, tops and bottoms shall be interchangeable, not less than 22 gauge (0.759 mm) and formed into a sturdy pan with a lip formed front edge for additional strength and safety.

6. Locker Interior:
   a. Interior vertical surfaces of sides and back panel are finished with 6 mil frosty white vinyl.
   b. Interior horizontal surfaces of shelves, tops and bottoms are finished with black thermal fused melamine.
   c. Locker frame construction of 48 lb industrial grade particle board core ANSI A208.1 grade 1-M-2, 45 (Sides = 5/8", Shelves = ¾", Back = ¼")
   d. Frame edged with high pressure plastic laminate .032" thickness, vertical grade or 1mm PVC poly vinyl chloride thermal glued tape to match plastic laminate (PVC)
   e. Locker venting through real panel 32m system.

7. Hardware:
   a. Hinges, heavy duty
      1) Fully concealed, nickel plated, self-closing, 120 degree opening (3 per door > 42”).
   b. Locks, heavy duty
      1) Padlock hasps, recessed, through bolted, case hardened and cadmium plated steel.
   c. Cloths hooks, aluminum finished:
      1) Ceiling mounted double prong.
   d. Coat rods, nickel plated
   e. Number discs: 1 ¼" diameter, ¼" numerals recessed flush in door, satin chrome.

Single Point Latching/Locking Device (Built-in Type): An 11 gauge (3.030 mm) security strike welded to the frame's continuous door strike. The lock bolt shall secure itself behind the strike. Access to the secured bolt shall be denied by the full length stop on the door frame and by the top lip of the strike projecting forward and fitting into a slot in the door, preventing the door and frame from being pulled apart.

f. Combination lock operated.

g. Key operated.

Single Point Latching/Locking Device (Positive Latch Option): Spring loaded...
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single point positive latch.

Hinge: A full length 18 gauge (1.214 mm) continuous piano hinge shall be securely welded to the frame and fastened to the door with screws or rivets. Hinge shall maximize security and improve resistance to abuse and vandalism.

Ventilation: Airflow is achieved through 4 sets of 5 unobstructed louvers 3/4 inch (19 mm) wide by 1/4 inch (6 mm) high in the vertical frame members. Provide 18 each 3/16 inch (5 mm) diameter perforations at outside perimeter of each top, shelf, and bottom to offer additional ventilation throughout the inside of each locker.

Number Plate: Each door shall have a high strength black laminated plastic number plate, 2 1/2 inches (64 mm) wide by 1 1/8 inches (29 mm) high with numbers not less than 7/16 inch (11 mm) high. Plates shall accommodate up to four digits, be nestled in a recess flush with door surface and shall be fastened to door with two rivets. Unless otherwise specified, lockers will be numbered consecutively from 1-up.

Interiors: Hooks are chrome plated steel with ball point heads and attached to shelves with two fasteners.

h. Single tier locker shall be one hat shelf and three coat hooks.
i. Double and triple tier lockers shall have three coat hooks per compartment.
j. Provide double prong coat hooks.
k. Provide 1 inch (25 mm) O.D. coat rods with stainless steel brackets.

Accessories:

Z-Bases: 14 gauge mild cold rolled sheet steel free from surface imperfections and contaminants with an epoxy polyester powder finish.

Tops: Slope tops shall be made of mild cold rolled sheet steel free from surface imperfections an epoxy polyester powder finish. The universal support pieces for Slope Tops shall be made from 20 gauge (0.912 mm) galvanneal steel.

L. 20 gauge (0.912 mm) material.

Trim and Fillers: “U” fillers shall be made of 18 gauge (1.214 mm) and all other trim and fillers shall be made of 24 gauge (0.617 mm) mild cold rolled sheet steel free from surface imperfections and contaminants with an epoxy polyester powder finish.

FINISH

Epoxy Powder Coating: Steel parts and aluminum pedestals shall be thoroughly machine cleaned, phosphatised, and finished with a high performance epoxy powder coating, baked on to provide a uniform, smooth, protective finish. Door and frame colors shall be selected from Manufacturer's standard colors to be selected by the Architect.

2.3 FABRICATION

Each locker built shall have a door mounted in a frame. Individual top, bottom, side, back, shelves, with a common side separating compartments.

Materials are completely asbestos free. The paint used shall be a powder coating.
completely free of all lead and chromate.

No fasteners shall be exposed on fronts of locker doors and frames.

Sliding rods, springs, turnhandles or moving latches are not permitted for latching/locking devices.

A. Lockers shall be fabricated using blunt joint and turn head 2” galvanized nail and screw construction.

B. Fabricate lockers square, rigid and without warp.

C. Machine all parts and attachment holes accurately and chip free

D. Fabricate corners, fillers, scribes, tops as required for installation.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

A. Install metal plastic laminate lockers and accessories at locations shown in accordance with manufacturer’s instructions. Install lockers plumb, level, and square.

Assemble lockers by riveting to provide solid permanent fastening while allowing for faster removal by drilling where future rearrangement of lockers or replacement of damaged parts may be required. If acceptable to Architect, bolted assembly will be acceptable.

Install locks in sequence after all lockers have been installed.

Install number plates in sequence after all lockers have been installed.

B. Lockers can be easily installed on standard prefabricated bases as supplied by manufacturer allowing for 2” toe kick.

C. Fasten locker frames to each other with chromium plated t-nuts and hex head screws through holes per drilled at factory.

D. Secure banks of lockers every 4 feet to walls or wall studs for earthquake resistance with straps as supplied by manufacturer.

E. Install end and corner fillers and caps, cut to size in field per plans.

F. Install end panels, sloped tops, finished tops.
G. Install number discs, clean lockers, remove all related trash and debris from jobsite.

3.3 ADJUSTING AND CLEANING

A. Adjust doors and latches to operate without binding. Verify that latches are operating satisfactorily.

B. Touch up with factory supplied paint and Repair or replace damaged products before Substantial Completion.

3.4 PROTECTION

A. Protect installed products until completion of project.

END OF LOCKERS
SECTION 12 48 13

FLOOR MATS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. (EM-1) (FM-1) Entrance mats in surface-mounted frames.

B. Related Work:
   1. Division 3, Section "Resurfacing and Cementitious Underlayment".

1.2 REFERENCES

A. Publications listed herein are part of this specification to the extent referenced.

1.3 SYSTEM DESCRIPTION

A. Roll-Up Floor Mats shall consist of a series of aluminum tread rails spaced 2" (50.8 mm) o.c. and running counter to the traffic flow.
   1. Roll-Up Floor Mats shall be surface mounted.
      a. Roll-Up Mats shall be provided with flexible PVC vinyl hinges.

B. Aluminum Roll-Up Mats shall be provided with carpet inserts.

C. Floor mats shall allow debris to fall to sub-floor.

1.4 QUALITY ASSURANCE

A. Manufacturer: Obtain floor mat assemblies through one source from a single manufacturer.
   1. Manufacturer shall be ISO 9001 Certified.
      a. The Manufacturer shall have documented management and control of the processes that influence the quality of its products.
      b. The Manufacturer shall have documented management and control of the processes that influence the quality of its customer service.
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2. Manufacturer shall have a minimum of ten (10) years of experience in the fabrication of floor mat assemblies.

B. Installer: Firm with not less than three (3) years of successful experience in the installation of systems similar to those required by this project and acceptable to the manufacturer of the system.

1.5 SUBMITTALS

A. Submit manufacturer’s specifications and technical data, including Material Safety Data Sheets, installation instructions, as required, and catalog cuts and templates where required to explain construction and to provide for incorporation into the project.

B. Submit certificates, copies of independent test reports or research reports showing compliance with specified performance requirements.

C. Submit shop drawings showing layout and types of mats and frames; full-scale sections of typical installations; anchors and accessories. Shop drawings submittal shall be coordinated with concrete work shop drawings showing oversized recess for deferred installation of frame.

D. Submit one (1) 12” x 12” sample of the specified system.

1.6 QUALITY ASSURANCE

A. Accessibility Requirements: Provide installed floor mats that comply with Section 4.5 in the U.S. Architectural & Transportation Barriers Compliance Board’s “Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG),” Sections 302 and 303 in ICC A117.1.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver floor mat system to jobsite in new, clean, unopened crates of sufficient size and strength to protect materials during transit.

B. Store components in original containers in a clean, dry location.

1.8 WARRANTY

A. Submit manufacturer’s warranty that materials furnished will perform as specified for a period of not less than two (2) years for floor grids and for floor mats when installed in accordance with manufacturer’s recommendations.
PART 2 - PRODUCTS

2.1 ROLL-UP MATS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

C. Basis-of-Design Product: Subject to compliance with requirements, provide Balco FMS-C-TAF surface rollup with carpet tread or a comparable product by one of the following:

1. American Floor Products Company, Inc.
2. ARDEN Architectural Specialties, Inc.
3. Balco, Inc.
5. K. N. Crowder Manufacturing, Inc.
7. Durable Corporation.
8. J. L. Industries, Inc.
12. Pawling Corporation; Architectural Products Division.
13. Reese Enterprises, Inc.

D. Roll-up, Vinyl-Rail Hinged Mats: Vinyl-acrylic tread rails 1-1/2 inches (38 mm) wide by 3/8 inch (9.5 mm) thick, with slotted or perforated vinyl hinges.

1. Tread Inserts: 1/4-inch (6-mm-) high, 28-oz./sq. yd. (950-g/sq. m) weight, level-cut, nylon-pile, fusion-bonded carpet.
2. Colors, Textures, and Patterns of Inserts: As selected by Architect from manufacturer's full range.
3. Size: Refer to finish schedule on the architectural drawings.

E. Surface-Mounted Frames:

1. Tapered Frames: Tapered flexible vinyl edge-frame members, not less than 1-1/2 inches (38 mm) wide, attached to mat at all 4 edges, with welded mitered corners.
2.2 FABRICATION

A. Floor Mats: Shop fabricate units to greatest extent possible in sizes indicated. Unless otherwise indicated, provide single unit for each mat installation; do not exceed manufacturer’s recommended maximum sizes for units that are removed for maintenance and cleaning. Where joints in mats are necessary, space symmetrically and away from normal traffic lanes. Miter corner joints in framing elements with hairline joints or provide prefabricated corner units without joints.

B. Coat surfaces of aluminum frames that will contact cementitious material with manufacturer’s standard protective coating.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Contractor shall verify that field measurements are as shown on shop drawings prior to releasing materials for fabrication by the manufacturer.

B. Installer shall examine conditions under which work is to be performed and shall notify the contractor in writing of unsatisfactory conditions. Installer shall not proceed until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

3.2 INSTALLATION

A. Install recessed mat frames to comply with manufacturer’s written instructions. Set mat tops at height recommended by manufacturer for most effective cleaning action; coordinate top of mat surfaces with bottom of doors that swing across mats to provide clearance between door and mat.

B. Install surface-type units to comply with manufacturer’s written instructions at locations indicated; coordinate with entrance locations and traffic patterns.

C. Work shall be aligned plumb, level, and, where required, flush with adjacent surfaces.

D. Carpet and Vinyl shall be positively locked into tread rails.

3.3 PROTECTION

A. Inspect system components for proper fit. Adjust, repair or replace components not conforming to requirements. Repair or replacement of an individual unit shall be as approved by the Architect.
B. Advise the contractor of procedures required to protect the finished work from damage during the remainder of the construction period.

C. Finished units shall be without damage. Units damaged during shipping or construction shall be repaired by the contractor at the expense of the party damaging the material, in accordance with the contract requirements.

D. Protect installation from damage by work of other Sections. After installation of frame, install temporary filler of plywood in recesses and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of Substantial Completion.

E. Install grids and mats near time of Substantial Completion.

END OF SECTION