William Paterson University of New Jersey

PROJECT NAME:
Cheng Library Carpeting

PROJECT NUMBER:
WP-18-06-10

SUPPLEMENTAL INSTRUCTIONS FOR BIDDING AND COMPLETING PROPOSAL FORMS

A) All work defined in the contract documents is for the Cheng Library Carpet Replacement Project – WP-18-06-10. All work is to be completed as noted in the Time for Completion, Section E of these Supplemental Instructions. Bidders are also to reference the Instructions to Bidders and General Conditions documents, also issued as part of this bid, for further details, requirements, and information.

B) Prequalification:

Bidders for this project are not required to be New Jersey DPMC classified at the time of bid. Please disregard this requirement in the Instruction to Bidders, Section IB 3.4. Bidders must possess the available bonding capacity consistent with the Prequalification Statute (N.J.S.A.52:35-1 et seq.) to have their bids considered.

All required major subcontractors, if intended to be used, shall be named by each bidder in the appropriate spaces on the Bid Form. Such named intended major subcontractors shall become the actual subcontractors for the work identified, in the event the bidder is successful in being awarded a contract. No substitution of a major subcontractor shall be made unless the contractor receives approval in writing by the Contracting Officer.

C) Bidders shall provide materials as required by the Bid Document Checklist and forms included therein.

D) Form Requirements:

1. Forms are to be signed by Principal of the firm where signatures are called for.
2. Forms are to be notarized where called for.
3. Forms are to be sealed where called for. (Note – when a corporation, seal locations are in bold).

E) Scope of Work:

The Cheng Library is comprised of three floors. The project consists of the complete removal of the existing carpet shown in yellow on Attachment 1 – Existing Library Carpet Location Plans. The library stacks are also indicated on Attachment 1. The selected bidder will be required to remove the carpet under the library stacks and furniture, and replace the stacks and furniture after the new carpet tile is installed. However, the fixed seating in the Auditorium will remain in place during carpet removal and new carpet installation. The approximate floor areas of the carpet to be removed are as follows:

1. Lower Level: 250 SY;
2. First Floor: 3,600 SY;
3. Second Floor: 3,510 SY

The carpet on the existing stair landings and stair treads is also to be removed. This carpet will be replaced with Mannington Stair Treads & Risers.

Attachment 2 – Proposed Carpet & Floor Covering Location Plans identifies the locations for installing the new Mannington carpet tile, the Amtico LVT flooring, rubber base, and rubber stair treads and risers.

Attachment 3 – Mannington Product Specifications provides the specifications for new Mannington carpet tile, the Amtico LVT flooring, rubber base, and rubber stair treads and risers. The products are as follows:

1. TYPE A (on Attachment 2): Mannington M41502-001-A…Social
2. TYPE B (on Attachment 2): Mannington M41664-001-A…Merge
3. TYPE C (on Attachment 2): Mannington M41664-002-A…Magnify
4. TYPE D (on Attachment 2): Mannington M41508-002-A…Nashville
5. Mannington Amtico LVT Reclaimed Oak AROW7870, or Harbor Pine AROW7990
6. Mannington Rubber Base
7. Mannington Stair Treads & Risers

The Mannington carpet patterns are labeled as Type A, B, C & D to indicate that there could be four different carpet patterns installed overall; however, the actual patterns for installation may change during the bidding phase. Nevertheless, the price/sy for all of the Mannington carpets will be the same.

The Mannington contact person is:

Nancy Eckmayer, District Manager
21 Herron Court
Harrington Park, NJ 07640
201-638-0191
nancy_eckmayer@mannington.com

F) Mannington Commercial – LOOP Carpet Reclamation Program:

It is the University's goal to minimize the disposal of its used carpet in landfill. Therefore, upon award of the contract, the University (with assistance of the contractor) plans on determining to what degree the Mannington Commercial's LOOP Carpet Reclamation Program can reclaim the used carpet. Mannington's contact for the reclamation program is:

Will Harrison
1844 US Highway 41 South, SE
Calhoun, GA 30701
tel 706-602-6211
cell 706-459-8262

For purposed of the bidding phase, the Bidders should identify the cost for disposing of the used carpet as a separate line item. If the Mannington reclamation program impacts the disposal cost in any way, the cost will be covered by the University.

G) Time for Completion and Sequence of Operations:

The anticipated contract award will be prior to March 23, 2018. Onsite work can commence after May 16, 2018. All work is to be substantially completed not later than August 17, 2018. All remaining work completed by not later than August 24, 2018. The removal and installation work is to be done in phases, one floor at a time. The Second Floor is to be done first, then the First Floor, and finally the Auditorium and Lower Level. The removal and installation work for the four stairwells shall be done one stairwell at a time.

H) Modify General Conditions as follows:

Articles 5.27.4, 5.27.5 and 5.27.7 Not used

Article 5.27.14 Not used

Article 6.1.3 Not used

Article 8.7.1 Modify as follows: Liquidated damages shall be $1,000.00 per calendar day.

I) Award is contingent upon the selected bidder executing the University's standard contract for construction, which can be accessed at www.wpunj.edu/capital-planning/contracts-and-forms.dot.

J) BIDDER'S SUPPLEMENTARY INFORMATION (Upon request of the University only, after initial bid submission)

1. Identify projects of similar scope to this project completed in the last 3 years of at least $100,000 in contract value. For each project identify the following:

   A) Contracted Completion Date
   B) Value of Work in Contract
   C) Relationship with Property Owner (prime, subcontractor, material supplier)
   D) Owner Contact
   E) Location of Project

2. List the type of work normally performed with your own forces.

ATTACHMENT 3 – MANNINGTON PRODUCT SPECIFICATIONS

William Paterson University of New Jersey

PROJECT NAME:
Cheng Library Carpeting

PROJECT NUMBER:
WP-18-06-10

Product Specifications

M41502-001-A -- INFINITY MODULAR

MANNINGTON COMMERCIAL

PHYSICAL CONSTRUCTION:

CONSTRUCTION:	Tip-sheared Patterned Loop
FACE FIBER:	100% Antron Lumena Type 6,6 CF Nylon
DYE METHOD:	Solution
GAUGE:	5/64"
STITCHES PER INCH:	9.66
PILE THICKNESS:	.121 Inches
TUFTED YARN WEIGHT:	22 Ounces Per Square Yard
PRIMARY BACKING:	100% Synthetic
SECONDARY BACKING:	Infinity Modular Reinforced Composite Closed Cell Polymer
STANDARD SIZE:	24" X 24" Modular Tiles

ENVIRONMENTAL:

RECYCLED CONTENT:	Contains Pre-Consumer Recycled Content*
MANUFACTURE LOCATION:	Calhoun, Georgia 30701 USA
NSF / ANSI-140 CERTIFICATION:	Gold
CRI GREEN LABEL PLUS ID:	GLP7616

WARRANTIES:

WARRANTY:	Lifetime Limited Warranty, Including Face Wear, Moisture Barrier, Delamination, Tuft Bind, Unraveling, and Static Protection
BLEACH RESISTANT WARRANTY:	ColorSafe with 15 Year Limited Warranty Against Color Loss from Bleach Spills
STAIN RESISTANT WARRANTY:	XGUARD with 15 Year Limited Warranty Against Staining

PRODUCT TESTING:

RADIANT PANEL (ASTM E-648):	Class I (Direct Glue)
SMOKE CHAMBER (ASTM-E-662):	Less than 450 (Flaming Mode)
METHENAMINE PILL TEST (ASTM D-2859):	Passes
DIMENSIONAL STABILTY AACHEN TEST:	Passes
ELECTROSTATIC PROPENSITY (AATCC 134):	Less than 3.5 KV

RECOMMENDED ADHESIVE:

RELEASEABLE ADHESIVE:	Mannington Infinity Pressure Sensitive Adhesive
CRI GREEN LABEL PLUS ID:	GLP70522
VOC LIMITS:	Meets SCAQMD Rule #1168
BOND WARRANTY:	Lifetime Limited Warranty When Used With Mannington Carpet

Specifications are subject to normal manufacturing variances. Specifications are subject to change without notice when technological advancements provide improved product performance.

* Please contact Mannington Technical Services at 1-800-241-2262 for updated, specific recycled content percentages for each product.

Product Specifications

M41508-002-A -- INFINITY MODULAR

MANNINGTON COMMERCIAL

PHYSICAL CONSTRUCTION:

CONSTRUCTION:	Textured Patterned Loop
FACE FIBER:	100% Antron Lumena Type 6,6 CF Nylon
DYE METHOD:	Solution
GAUGE:	5/64"
STITCHES PER INCH:	11.33
PILE THICKNESS:	.126 Inches
TUFTED YARN WEIGHT:	22 Ounces Per Square Yard
PRIMARY BACKING:	100% Synthetic
SECONDARY BACKING:	Infinity Modular Reinforced Composite Closed Cell Polymer
STANDARD SIZE:	18" X 36" Modular Tiles

ENVIRONMENTAL:

RECYCLED CONTENT:	Contains Pre-Consumer Recycled Content*
MANUFACTURE LOCATION:	Calhoun, Georgia 30701 USA
NSF / ANSI-140 CERTIFICATION:	Gold
CRI GREEN LABEL PLUS ID:	GLP7616

WARRANTIES:

WARRANTY:	Lifetime Limited Warranty, Including Face Wear, Moisture Barrier, Delamination, Tuft Bind, Unraveling, and Static Protection
BLEACH RESISTANT WARRANTY:	ColorSafe with 15 Year Limited Warranty Against Color Loss from Bleach Spills
STAIN RESISTANT WARRANTY:	XGUARD with 15 Year Limited Warranty Against Staining

PRODUCT TESTING:

RADIANT PANEL (ASTM E-648):	Class I (Direct Glue)
SMOKE CHAMBER (ASTM-E-662):	Less than 450 (Flaming Mode)
METHENAMINE PILL TEST (ASTM D-2859):	Passes
DIMENSIONAL STABILTY AACHEN TEST:	Passes
ELECTROSTATIC PROPENSITY (AATCC 134):	Less than 3.5 KV

RECOMMENDED ADHESIVE:

RELEASEABLE ADHESIVE:	Mannington Infinity Pressure Sensitive Adhesive
CRI GREEN LABEL PLUS ID:	GLP70522
VOC LIMITS:	Meets SCAQMD Rule #1168
BOND WARRANTY:	Lifetime Limited Warranty When Used With Mannington Carpet

Specifications are subject to normal manufacturing variances. Specifications are subject to change without notice when technological advancements provide improved product performance.

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Product Specifications

M41664-001-A -- INFINITY MODULAR

MANNINGTON COMMERCIAL

PHYSICAL CONSTRUCTION:

CONSTRUCTION:	Tip-sheared Patterned Loop
FACE FIBER:	100% Antron Lumena Type 6,6 CF Nylon
DYE METHOD:	Solution
GAUGE:	5/64"
STITCHES PER INCH:	11.0
PILE THICKNESS:	.126 Inches
TUFTED YARN WEIGHT:	24 Ounces Per Square Yard
PRIMARY BACKING:	100% Synthetic
SECONDARY BACKING:	Infinity Modular Reinforced Composite Closed Cell Polymer
STANDARD SIZE:	18" X 36" Modular Tiles

ENVIRONMENTAL:

RECYCLED CONTENT:	Contains Pre-Consumer Recycled Content*
MANUFACTURE LOCATION:	Calhoun, Georgia 30701 USA
NSF / ANSI-140 CERTIFICATION:	Gold
CRI GREEN LABEL PLUS ID:	GLP7616

WARRANTIES:

WARRANTY:	Lifetime Limited Warranty, Including Face Wear, Moisture Barrier, Delamination, Tuft Bind, Unraveling, and Static Protection
BLEACH RESISTANT WARRANTY:	ColorSafe with 15 Year Limited Warranty Against Color Loss from Bleach Spills
STAIN RESISTANT WARRANTY:	XGUARD with 15 Year Limited Warranty Against Staining

PRODUCT TESTING:

RADIANT PANEL (ASTM E-648):	Class I (Direct Glue)
SMOKE CHAMBER (ASTM-E-662):	Less than 450 (Flaming Mode)
METHENAMINE PILL TEST (ASTM D-2859):	Passes
DIMENSIONAL STABILTY AACHEN TEST:	Passes
ELECTROSTATIC PROPENSITY (AATCC 134):	Less than 3.5 KV

RECOMMENDED ADHESIVE:

RELEASEABLE ADHESIVE:	Mannington Infinity Pressure Sensitive Adhesive
CRI GREEN LABEL PLUS ID:	GLP70522
VOC LIMITS:	Meets SCAQMD Rule #1168
BOND WARRANTY:	Lifetime Limited Warranty When Used With Mannington Carpet

Specifications are subject to normal manufacturing variances. Specifications are subject to change without notice when technological advancements provide improved product performance.

* Please contact Mannington Technical Services at 1-800-241-2262 for updated, specific recycled content percentages for each product.

Product Specifications

M41664-002-A -- INFINITY MODULAR

MANNINGTON COMMERCIAL

PHYSICAL CONSTRUCTION:

CONSTRUCTION:	Textured Patterned Loop
FACE FIBER:	100% Antron Lumena Type 6,6 CF Nylon
DYE METHOD:	Solution
GAUGE:	5/64"
STITCHES PER INCH:	6.0
PILE THICKNESS:	.146 Inches
TUFTED YARN WEIGHT:	34 Ounces Per Square Yard
PRIMARY BACKING:	100% Synthetic
SECONDARY BACKING:	Infinity Modular Reinforced Composite Closed Cell Polymer
STANDARD SIZE:	18" X 36" Modular Tiles

ENVIRONMENTAL:

RECYCLED CONTENT:	Contains Pre-Consumer Recycled Content*
MANUFACTURE LOCATION:	Calhoun, Georgia 30701 USA
NSF / ANSI-140 CERTIFICATION:	Gold
CRI GREEN LABEL PLUS ID:	GLP7616

WARRANTIES:

WARRANTY:	Lifetime Limited Warranty, Including Face Wear, Moisture Barrier, Delamination, Tuft Bind, Unraveling, and Static Protection
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RECOMMENDED ADHESIVE:

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CRI GREEN LABEL PLUS ID:	GLP70522
VOC LIMITS:	Meets SCAQMD Rule #1168
BOND WARRANTY:	Lifetime Limited Warranty When Used With Mannington Carpet

Specifications are subject to normal manufacturing variances. Specifications are subject to change without notice when technological advancements provide improved product performance.

* Please contact Mannington Technical Services at 1-800-241-2262 for updated, specific recycled content percentages for each product.

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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ]; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies resilient vinyl tile flooring and installation adhesives marketed in the USA by Amtico International, which obtained the Amtico trade name for use in America from the Amtico Division of American Biltrite Inc. (now merged into the Congoleum Corporation, Mercerville, NJ). Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles, including 09 65 00 Resilient Flooring.

SECTION 09 65 19
RESILIENT TILE FLOORING

PART 1 GENERAL

SUMMARY

A. Section Includes: Resilient vinyl tile flooring.

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers per CSI *MasterFormat* and specifier's practice.

B. Related Sections: Sections related to this section include:

1. Procurement and Contracting Requirements: Division 00 General Conditions.
2. General Requirements: Division 01 Specification Sections.
3. Concrete: Division 03 Concrete Sections.
4. Plywood Subfloor: Division 06 Rough Carpentry Section.
5. Expansion Joint Covers: Division 07 Joint Protection Section.
6. Vapor Retarder: Division 07 Vapor Retarder Section.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 01 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

REFERENCES

A. American Concrete Institute (ACI):

1. ACI 302.1 Guide for Concrete Floor and Slab Construction.
2. ACI SP-15 Field Reference Manual - Standard Specifications for Structural Concrete.

B. ASTM International:

1. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
2. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
3. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.

4. ASTM E1643 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.
5. ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.
6. ASTM F137 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
7. ASTM F386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces.
8. ASTM F536 Test Method for Size of Resilient Floor Coverings.
9. ASTM F540 Test Method for Squareness of Resilient Floor Tile by Dial Gage Method.
10. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
11. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
12. ASTM F970 Standard Test Method for Static Load Limit.
13. ASTM F1482 Standard Guide to Wood Underlayment Products Available for Use Under Resilient Flooring.
14. ASTM F1514 Standard Test Method for Measuring Heat Stability of Resilient Vinyl Flooring by Color Change.
15. ASTM F1515 Standard Test Method for Measuring Light Stability of Resilient Vinyl Flooring by Color Change.
16. ASTM F1700 Standard Specification for Solid Vinyl Floor Tile.
17. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
18. ASTM F1914 Standard Test Method for Short-Term Indentation and Residual Indentation of Resilient Floor Covering.
19. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.

C. Americans with Disabilities Act (ADA) of 1990.

D. DIN Deutsches Institut fur Normung e.V.:

1. DIN 52612 Testing of Thermal Insulating Materials; Determination of Thermal Conductivity by the Guarded Hot Plate Apparatus; Parts 1 - 3.

E. European Committee for Standardization (CEN):

1. EN 425 Resilient Floor Coverings - Determination of the Effect of a Caster Chair.
2. EN 429 Resilient Floor Coverings - Determination of the Thickness of Layers.
3. EN 430 Resilient Floor Coverings - Determination of Mass per Unit Area.
4. EN 660 Resilient Floor Coverings - Determination of Wear Resistance.

F. Federal Specifications (FS):

1. Federal Standard Number 501a (Notice 1) Federal Test Method Standard for Floor Covering, Resilient, Non-Textile, Sampling and Testing Method 6211 Dimensional Stability.

G. International Organization for Standardization (ISO):

1. ISO 9001 Quality Systems - Model Quality Assurance in Production, Installation, and Servicing.
2. ISO 14001 Environmental Management Systems - Specification with Guidance for Use.

H. National Fire Protection Association (NFPA):

1. NFPA 253 Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.
2. NFPA 258 Recommended Practice for Determining Smoke Generation of Solid Materials.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this Article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and specifier's practice.

SYSTEM DESCRIPTION

A. Performance Requirements:

1. The manufacturer of the flooring product must be accredited to both ISO 9001 (Quality Management System) and ISO 14001 (Environmental Management System).
2. Provide resilient tile flooring which has been manufactured and can be installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01 Submittal Procedure

Section(s).

B. Product Data: Submit product data, including manufacturer's technical specifications, for each type of specified products.

C. Shop Drawings: Submit shop drawings showing layout, pattern and colors.

D. Samples: Submit selection and verification samples for finish and colors.

E. Quality Assurance/Control Submittals: Submit the following:

1. Test Reports: Upon request, submit test reports of physical performance and characteristics from recognized test laboratories.

2. Technical Specifications: Submit manufacturer's technical specification document that certifies products meet or exceed specified requirements.

3. Manufacturer's Instructions: Submit manufacturer's installation instructions for resilient flooring.

F. Closeout Submittals: Submit the following:

1. Maintenance Data: Maintenance data for installed products in accordance with Division 01 Closeout Submittals, Maintenance Data and Operation Data Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.

2. Warranty: Submit warranty documents specified herein.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate Article below with Division 01 Quality Assurance Section.

QUALITY ASSURANCE

A. Manufacturer: The manufacturer of the flooring product must be accredited to both ISO 9001 (Quality Management System) and ISO 14001 (Environmental Management System).

B. Flooring Contractor Qualifications:

1. The awarded contractor shall be an established firm with experience in the installation of the specified product and have access to all manufacturers' required technical, maintenance, specifications and related documents.

2. The flooring contractor shall have completed at least 3 projects of similar scope, material and complexity, and must provide project reference details including contact names and telephone numbers.

C. Installer Qualifications: An experienced installer, as determined by contractor, who has specialized in the installation of work similar to that required for this project is to perform the work of this section.

1. Installation procedures should be in strict accordance with Amtico International published technical documentation and shall not begin until the work of all other trades has been completed.

Specifier Note: Retain paragraph below for erected assemblies required for review of construction, coordination of work of several sections, testing or observation of operation. Test floors establish standards by which Work will be judged. Coordinate below with Division 01 Quality Control (Test Floor Requirement) Section.

D. Test Floors: Install test floor at project site using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of maintainability and workmanship standard. Comply with Division 01 Quality Control (Test Floor Requirements) Section.

Specifier Note: Edit paragraph below to specify test floor size.

1. Test Floor Size: [Specify test floor size.].

2. Maintenance: Maintain test floor during construction for workmanship comparison; remove and legally dispose of test floor when no longer required.

3. Incorporation: Test floor may be incorporated into final construction upon Owner's approval.

E. Preinstallation Meetings: Conduct preinstallation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Division 01 Project Management and Coordination (Project Meetings) Section.

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 01 Product Requirements Section.

DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 01 Product Requirements Section.

B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

D. Storage and Protection: Store materials flat, protected from exposure to harmful weather conditions, between 50 degrees F - 81 degrees F (10 - 27 degrees C) and 50% (± 10%) relative humidity.

PROJECT CONDITIONS

A. Substrate Conditions: Use the current test methods described below to determine the dryness as required to ensure initial and long-term success:

Specifier Note: ASTM F1869 covers the quantitative determination of the rate of moisture vapor emitted from below-grade, on-grade and above-grade (suspended) concrete floors.

1. Comply with ASTM F1869 testing procedures.
2. Comply with ASTM F2170 testing procedures.
3. The General Contractor shall be responsible for conducting in situ relative humidity testing (ASTM F2170) or calcium chloride testing (ASTM F1869). Perform minimum of 3 tests for the first 1000 square feet, and at least one test for each additional 1000 square feet, to ensure concrete internal relative humidity does not exceed 80% or moisture vapor emissions do not exceed 5.0 lb per 1000 square feet within a 24 hour period.
4. Contingency for High Moisture Readings: If at the time of testing the moisture readings are in excess of 80% internal relative humidity or 5.0 lb moisture vapor emissions, the Architect will initiate testing using petrographic analysis to determine the Water/Cement Ratio and if sufficient hydration has taken place. If the Specifications were not followed in their entirety, water/cement ratio (as specified), and/or the concrete surface has been inadequately hydrated, the Contractor responsible for the placement of the cement shall be responsible for the costs associated with the petrographic analysis and subsequent remediation requirements.

B. The Flooring Contractor shall verify in writing to the Owner, a minimum of thirty (30) days prior to scheduled resilient flooring installation, the following substrate conditions:

1. Moisture: Maximum of 80% internal relative humidity tested in accordance with the current ASTM F2170 or maximum of 5.0 lb Moisture Vapor Emission Rate tested in accordance with the current ASTM F1869.
2. Alkalinity (ASTM F710): Between 7.0 - 10.0 pH.
3. Suitability of Substrate Surface: Ensure that substrate surface is sound, smooth and flat to 1/8 inch in 10 feet (3.2 mm in 3.1 m).
4. For substrate conditions that require additional preparation, Flooring Contractor shall furnish Owner and General Contractor with written documentation detailing noncompliance, proposed remediation, timing and cost.

C. Environmental Requirements/Conditions: In accordance with manufacturer's recommendations. Areas to receive flooring shall be clean, fully enclosed, weathertight with stable environmental conditions between 64 degrees F - 81 degrees F (18 - 27 degrees C) and 50% (± 10%) relative humidity. The flooring material shall be conditioned in the same manner.

D. Temperature Requirements: Maintain air temperature and relative humidity levels in spaces where products will be installed for time period before, during and after installation as recommended by manufacturer.

1. Temperature Conditions: Maintain 64 degrees F - 81 degrees F (18 - 27 degrees C) for 48 hours before, during and continuously after installation.
2. Relative Humidity Conditions: Maintain 50% (± 10%) relative humidity for 48 hours before, during and continuously after installation.

E. Close spaces to traffic during resilient flooring installation and for time period after installation recommended in writing by the manufacturer.

1. No foot traffic for 24 hours after installation.
2. No point loads for 48 hours after installation.
3. Wait 48 hours after installation before any wet maintenance is performed.

F. Install resilient flooring material and accessories after all other finishing operations, including painting, have been completed.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 01 Closeout Submittals (Warranty) Section.

WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit manufacturer's Commercial Limited Wear Warranty for Owner's acceptance. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under the Contract Documents.

Specifier Note: Coordinate Paragraph below with manufacturer's warranty requirements.

1. Warranty Period: Twenty years commencing on Date of Substantial Completion.

2. Warranty Acceptance: Owner is sole authority who will determine acceptability of manufacturer's warranty documents.

Specifier Note: Coordinate Article below with Division 01 Closeout Submittals (Maintenance Materials) Section.

MAINTENANCE

A. Extra Materials: Deliver extra materials from same production run as products installed to Owner. Package products with protective covering and identify with descriptive labels. Comply with Division 01 Closeout Submittals (Maintenance Materials) Section.

Specifier Note: Revise paragraph below specifying size and percentage as required for project.

1. Quantity: Furnish quantity of full-size units equal to 5% of amount installed.
2. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra materials.

PART 2 PRODUCTS

Specifier Note: Retain Article for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

RESILIENT TILE FLOORING

A. Manufacturer: Amtico International.

Specifier Note: Paragraph below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete Paragraph below per project requirements and specifier's practice.

1. Contact: 66 Perimeter Center East, Suite 700, Atlanta, GA 30346; Telephone: (800) 268-4260, (404) 267-1900; Fax: (404) 267-1901; E-mail: info@amtico.com; website: www.amtico.com.

Specifier Note: Amtico is a multi-layer flooring material, which includes a wearlayer, a print layer, a face ply layer and a backing layer. This luxury vinyl tile meets or exceeds ASTM F1700 requirements. The product is manufactured under ISO 14001, a comprehensive environmental management system. Amtico International has a commitment to improvement in a wide range of operating procedures, including pollution prevention, waste reduction and energy savings.

2. Proprietary Product(s): [Specify Amtico proprietary product names.].

Specifier Note: The Amtico resilient floor collection consists of Wood, Stone and Innovation Categories. In addition, Amtico International offers Logos and Stripping, the Border Collection and the Motif Collection. Each collection incorporates variation in shading, texture and color. Available colors and patterns exceed 200 colorways.

Specifier Note: Edit Paragraphs below to suit project requirements. Coordinate Paragraph(s) retained below with subsequent Articles in Part 2 Products.

B. Amtico Luxury Solid Vinyl Tile:

1. Product Testing (Minimum): Provide manufacturer's products which have been tested to meet the following minimum test standards:
   a. Comply with ASTM F1700, including the following:
      1) Classification (ASTM F1700): Class III (Printed Film) Types A & B.
      2) Flexibility (ASTM F137): 1 inch (25.4 mm) mandrel, no crack or break; pass.
      3) Total Thickness (ASTM F386): 0.100 inch (2.5 mm) +/- 0.005 inch (0.127 mm), satisfies requirement.
      4) Chemical Resistance (ASTM F925): Excellent resistance.
      5) Heat Resistance (ASTM F1514): $\Delta E < 8$ average; satisfies requirement.
      6) Light Stability (ASTM F1515): $\Delta E < 8$ average; satisfies requirement.
      7) Short-Term Residual Indentation (ASTM F1914): < 8%, satisfies requirement.
      8) Tile Size (ASTM F536): +/- 0.016 inch/lineal foot (0.4 mm/305 mm); satisfies requirement.
      9) Tile Squareness (ASTM F540): Maximum 0.010 inch (0.25 mm); satisfies requirement.
      10) Dimensional Stability (Fed. Std. No. 501a Method 6211): Maximum 0.020 inch/lineal foot (0.51 mm/305 mm); satisfies requirement.

b. Wearlayer Thickness (EN 429): 40 mils (1.0 mm).

c. Weight (EN 430): 29 lb/45 ft^2 (0.7 lb/ft^2).

d. Static Load Limit/Long-Term Indentation (ASTM F970) Armstrong Modified 1000 psi: Pass.

e. Fire Performance:

1) Critical Radiant Flux (ASTM E648 and NFPA 253): > 0.45 W/cm, Class 1.

2) Optical Smoke Density (ASTM E662 and NFPA 258) Non-Flaming DM Corrected: < 450; pass.

f. Slip Resistance (Dry Static Coefficient of Friction) (ASTM D2047 James Test): 0.6, ADA compliant.

g. Abrasion Resistance:

1) Taber Test (H22 wheels, 1 kg load, 1000 cycles): 0.14 g.

2) Thickness Loss (EN 660 Group T): 0.077 mm.

h. Caster Chair Test (EN 425): Pass.

i. Thermal Conductivity (DIN 52612): 3.0 to 4.5 $Btu/in/ft^2$/degree F (0.4 - 0.65 W/mK); suitable for radiant heating.

2. Collection: [Specify Amtico collection.].

Specifier Note: Edit paragraph below. Refer to manufacturer's literature or actual product samples for complete color information.

a. Product Designation and Color: [Specify Amtico product designation and color.].

b. Size: [Specify product size.].

c. Thickness: 0.100 inch (2.5 mm).

d. Edge: [Beveled] [Unbeveled].

e. Surface Texture: [Specify Amtico surface texture.].

Specifier Note: Paragraph(s) below can be omitted for proprietary specifications. Retain Paragraph(s) below to suit project requirements and method of specifying products.

Specifier Note: Edit Paragraph(s) below to suit project requirements.

3. Amtico Logos and Stripping:

a. Product Designation and Color: [Specify Amtico product designation and color.].

b. Design: [Specify design.].

c. Thickness: [Specify product thickness.].

d. Size and Cuts: [Specify product size and cuts.].

e. Edge: [Specify product edge treatment.].

f. Surface Texture: [Specify Amtico surface texture.].

Specifier Note: Edit Paragraph(s) below to suit project requirements.

4. Amtico Luxury Vinyl Motifs:

a. Design: [Specify design or custom design as indicated.].

b. Thickness: [Specify product thickness.].

c. Size and Cuts: [Specify size and cuts.].

d. Color Number and Name: [Specify color number and name.].

Specifier Note: Edit Paragraph(s) below to suit project requirements.

5. Amtico Luxury Vinyl Borders:

a. Product Designation and Color: [Specify Amtico product designation and color.].

b. Design: Custom design as indicated.

c. Thickness: [Specify product thickness.].

d. Width and Pattern: [Specify width and pattern.].

Specifier Note: Edit Paragraph(s) below to suit project requirements. Manufacturer recommends the use of the appropriate Amtico adhesive for all installations involving Amtico products.

C. Installation Adhesive: [Amtico 373 Adhesive] [Amtico Universal 2-Part Adhesive] [Amtico PSA]

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 01 Project Requirements (Product Substitutions Procedures) Section.

PRODUCT SUBSTITUTION

A. Substitutions: No substitutions permitted.

Specifier Note: Coordinate Article below with related materials indicated.

RELATED MATERIALS

A. Leveling and Patching Compounds: Refer to Division 03 Concrete Section.

B. Concrete Curing, Sealing, Hardening and Parting Compounds: Refer to Division 03 Concrete Section.

C. Expansion Joint Covers: Refer to Division 07 Joint Protection Sections.

D. Vapor Retarders: Refer to Division 07 Vapor Retarder Section.

SOURCE QUALITY CONTROL

A. Source Quality Control: Obtain resilient tile flooring proprietary products, including vinyl tile, from a single manufacturer.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete Article below to suit project requirements and specifier's practice.

MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data for substrate condition, preparation and installation, including product technical bulletins, product catalog installation instructions and product packaging instructions for installation. Flooring contractor must examine areas and conditions under which resilient flooring and accessories are to be installed and must notify General Contractor in writing of conditions detrimental to proper and timely completion of work. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Owner and Architect.

EXAMINATION

A. Substrates: Examine and verify that all substrates, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

B. Coordinate with Division 01 General Requirements for testing and allowances, Division 3 Concrete Section and Division 7 Vapor Retarder Section. To ensure a good quality appearance and good adhesion, the subfloor must be hard, smooth, clean, dry and free from defects. Slab on-grade and below-grade subfloors must incorporate an approved vapor retarder (ASTM E1745) properly installed (ASTM E1643) to ensure they are sufficiently dry and to reduce ground moisture vapor transmission from entering the slab after construction. This can be checked by using a suitable moisture test method. More detailed information is available on the preparation of specific subfloor types.

C. Concrete Substrate Testing: Prior to flooring installation, test concrete substrates for internal relative humidity (maximum 80% per ASTM F2170) or water vapor emission (maximum 5.0 lb per ASTM F1869) and alkalinity (7.0 - 10.0 pH per ASTM F710) harmful to resilient flooring installation performance. Consult resilient flooring manufacturer for requirements pertaining to proprietary resilient flooring products. Include testing costs in contract sum. Refer to Division 01 Quality Requirements.

PREPARATION

A. Surface Preparation:

1. Concrete subfloors shall be constructed in accordance with ACI 302.1 and ACI SP-15, utilizing a water-to-cement ratio of 0.45 or less containing no admixtures or surface treatments that are adverse to the installation of resilient flooring.

2. Concrete subfloors must be finished and cured without additives or surface treatments that will adversely affect the flooring materials according to ACI and ASTM F710 with a minimum compressive strength of 3500 psi (24,115 kPa).

3. Wood subfloors and underlayment panels must be acclimated to within 3% and have an equilibrium moisture content of 14% or less.

4. Floors must be clean, dry and smooth.

5. Incompatible Compounds: Remove compounds and other substances harmful or incompatible with installation adhesives and flooring products. This includes any surface materials, such as paint, wax, grease, oil, adhesive residues, etc. Chemical adhesive removers must be completely removed. Floors must be free of any sealers, curing, hardening or parting compounds that would adversely affect the adhesive used with the flooring. Refer to ACI and ASTM F710.

6. A vapor retarder shall be installed prior to pouring of on grade or below grade slabs. Moisture vapor transmission shall not exceed 80% internal Relative Humidity per ASTM F2170 In-Situ Relative Humidity Test and/or 5.0 lb/1000 ft ^{2}/24

hours per ASTM F1869 Calcium Chloride Test.

7. Wood floors must be double construction with a minimum thickness of 1 inch (25.4 mm). The top layer of wood shall be APA Underlayment Grade Plywood or other wood underlayment panel approved and warranted beneath resilient flooring. Refer to ASTM F1482.
8. Maintain room temperature, adhesive and flooring material at 64 degrees F - 81 degrees F (18 - 27 degrees C) and 50% (±10%) relative humidity for 48 hours before, during and continuously after installation.
9. Broom clean or vacuum surfaces to be covered and inspect substrate. Start of flooring installation indicates acceptance of subfloor conditions and full responsibility for completed work.
10. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
11. Substrate Cleaning and Preparation: Comply with manufacturer's requirements for substrate cleaning and preparation for resilient flooring products.
12. Leveling and Patching: Use only Portland cement based leveling and patching compounds, in accordance with compound manufacturer's requirements, to fill depressions, holes and cracks and to smooth substrate surface to 1/8 inch (3.2 mm) in a 10 foot (3.1 m) radius to receive resilient flooring.

Specifier Note: Coordinate article below with manufacturer's recommended installation details and instructions. Amtico can be installed on concrete, wood, stone and other subfloors that have been suitably prepared. Existing resilient floors must be removed and the subfloor leveled. Amtico is suitable for use with underfloor heating. Refer to the flooring manufacturer's installation instructions. Protect the floor from foot traffic for 24 hours and protect from point loads for 48 hours after installation. Do not wash floors until 48 hours after installation.

INSTALLATION

Specifier Note: Edit Paragraph(s) below to suit project requirements. Add additional installation requirements to suit specific project conditions.

A. Resilient Tile Installation: Install tiles from established center marks so that tiles at opposite room edge are of equal tile width. Follow installation procedures in accordance with Amtico International published Technical Manual, and do not begin until the work of all other trades has been completed.

Specifier Note: Edit Paragraph below to suit project requirements. Installation can include laying tiles with grain running in one direction, or laying tile in quarter turn pattern with grain direction alternating 90 degrees between adjacent tiles, or as indicated on drawings.

1. Patterns: Install tiles in patterns indicted on drawings.
2. Rolling: Roll floor using 100 lb roller in both directions within 1 hour.

B. Adhesive: Apply adhesive to substrate in accordance with manufacturer's instructions, including trowel notching, adhesive mixing and adhesive open and working times.

FIELD QUALITY CONTROL

Specifier Note: Edit Paragraph below. Establish number and duration of periodic site visits with Owner and manufacturer, and specify below. Coordinate Paragraph below with Division 01 Quality Assurance Section. Delete if manufacturer field services not required.

A. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.

1. Site Visits: [Specify number and duration of periodic site visits.].

Specifier Note: Article below is 2 recommended CSI *SectionFormat* Article titles combined into one Article title. Coordinate Article below with Division 01 Execution Requirements, (Cleaning) and (Protecting Installed Construction) Section.

CLEANING & PROTECTION

A. Initial Cleaning: Remove temporary coverings and protection of adjacent work areas. When installation has been finished for 24 hours, inspect workmanship and repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

1. Pick up litter and sweep floor to remove debris using a non-treated dust mop or vacuum cleaner with hard surface attachment.

B. Initial Wet Cleaning: Wait at least 48 hours after installation is complete before performing the initial wet cleaning process. This will allow the adhesive to cure.

1. Clean new floor thoroughly using a proprietary cleaner/maintainer solution of neutral pH detergent diluted in accordance with manufacturer's instructions. Machine scrub the wet floor using a 3M Red scrubbing pad or equivalent.

When finished, remove remaining cleaning solution using a mop or wet vacuum. Rinse floor with clean water and allow to dry thoroughly.

2. In conditions of heavy soiling, pre-wash the floor using a proprietary cleaner solution of neutral pH detergent mixed in accordance with manufacturer's instructions. Allow the solution to stand for 5 - 10 minutes before machine scrubbing or in accordance with the manufacturer's instructions.
3. For floors requiring the application of a floor finish, initial cleaning should be carried out using a suitable floor stripper.
4. When floor finishes are used, Amtico International recommends at least 2 coats of a satin or low gloss floor finish be applied in accordance with the manufacturer's instructions. Products used should be suitable for the intended usage.

C. Routine Maintenance: Frequency of mop or machine cleaning should be determined based upon daily usage and soiling conditions. Perform routine maintenance in accordance with the Amtico International Maintenance Procedures.

D. Protection: Protect installed product's finish surfaces from damage during construction. After the floor has been installed, it should be maintained in a manner that provides a clean and slip resistant surface for occupant safety.

Specifier Note: Retain Article below to suit project requirements. Article title is an enhancement to CSI *SectionFormat* Article title. CSI *PageFormat* allows for schedules, forms and table to be located at the end of a section. Article can be used to describe specific criteria requirements of similar products or equipment.

SCHEDULES

Specifier Note: Retain Paragraph below to suit project requirements. Reference a schedule or include a schedule as an attachment that indicates where to locate products and equipment. Delete Paragraph below if not required.

A. Schedules: Refer to Finish Schedule for location of resilient tile flooring.

END OF SECTION

ARCHITECTURAL GUIDE SPECIFICATIONS - DESCRIPTIVE

MANNINGTON COLORSCAPE™ & COLORSPEC™ RUBBER STAIR TREADS

MANNINGTON CONNECTSTEP™ RUBBER STAIR TREAD

Section 09662 – Resilient Rubber Stair treads (Thermoset Rubber – Type TS)

Created November, 2008

Mannington Mills, Inc.

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SECTION 09662

RUBBER TILE FLOORING
(Thermoset Rubber – Type TS)

PART 1 GENERAL

1.01 THIS SECTION INCLUDES

A. Flooring and accessories as shown on the drawings and schedules and as indicated by the requirements of this section.

1.02 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract (including General and Supplementary Conditions and Division 1 sections) apply to the work of this section.

1.03 RELATED SECTIONS

A. Other Division 9 sections for floor finishes related to this section but not the work of this section.

B. Division 3 Concrete; not the work of this section.

C. Division 6 Wood and Plastics; not the work of this section.

D. Division 7 Thermal and Moisture Protection; not the work of this section.

1.04 QUALITY ASSURANCE AND REGULATORY REQUIREMENTS

A. Select an installer who is competent in the installation of Mannington rubber stair treads.

B. If required, provide rubber stair treads and accessories supplied by one manufacturer, including leveling and patching compounds, and adhesives.

C. If required, provide rubber stair tread material to meet the following fire test performance criteria as tested by a recognized independent testing laboratory:

a. ASTM E 648 Critical Radiant Flux of 0.45 watts per sq. cm. or greater, Class I.

b. ASTM E 662 (Smoke Generation) Maximum Specific Optical Density of 450 or less.

1.05 SUBMITTALS

A. Submit shop drawings, seaming plan, coving details, and manufacturer's technical data, installation and maintenance instructions ("Mannington's Stair Tread Installation Instructions,") for flooring and accessories.

B. Submit the manufacturer's standard samples showing the required colors for rubber tile flooring and applicable accessories.

C. If required, submit the manufacturer's certification that the rubber flooring has been tested by an independent laboratory and complies with the required fire tests.

1.06 ENVIRONMENTAL CONDITIONS

A. Deliver materials in good condition to the jobsite in the manufacturer's original unopened containers that bear the name and brand of the manufacturer, project identification, and shipping and handling instructions.

B. Store materials in a clean, dry, enclosed space off the ground, and protected from the weather and from extremes of heat and cold. Protect adhesives from freezing. Store rubber stair treads, adhesives and accessories in the spaces where they will be installed for at least 48 hours before beginning installation.

C. Maintain a minimum temperature in the spaces to receive the rubber stair treads and accessories of 65°F (18°C) and a maximum temperature of [100°F (38°C)] [85°F (29°C)] for at least 48 hours before, during, and for not less than 48 hours after installation. Thereafter, maintain a minimum temperature of 55°F (13°C) in areas where work is completed. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances.

D. Install rubber stair treads and accessories after the other finishing operations, including painting, have been completed. Close spaces to traffic during the installation of the flooring. Do not install flooring over concrete slabs until they are sufficiently dry to achieve a bond with the adhesive, in accordance with the manufacturer's recommended bond and moisture tests.

PART 2 PRODUCTS

2.01 RESILIENT RUBBER FLOORING MATERIALS

A. Provide ColorScape™, ColorSpec™ and ConnectStep™ Rubber Stair Treads manufactured by Mannington Mills, Inc., in [insert product] [insert profile, style dependent] [select color from the range currently available from Mannington Mills, Inc.], having a nominal total thickness of 1/8" (3.2 mm) gauge (ColorScape/ColorSpec) and .188" (____ mm) gauge (ConnectStep). Flooring shall meet composition, size, thickness, squareness, flexibility, dimensional stability, and resistance to chemicals requirements of ASTM F-2169, Type TS, Class 2,Group 1 & 2, "Standard Specification for Rubber Stair Tread," Class III, Type B – Embossed Surface.

1. ColorScape™ and ColorSpec™ stair treads shall be available in the following lengths: 3′ (914 mm) 4′ (1219 mm), 5′ (1524 mm) and 6′ (1829 mm). ColorScape available in square, round and sculptured profiles. ColorSpec available in square and sculptured profiles. ColorScape™ and ColorSpec™ step depths will be available from 9 ½" to 13."

2. ConnectStep™ stair treads shall be available in following lengths: 3′ (914 mm) 4′ (1219 mm), 5′ (1524 mm) and 6′ (1829 mm). Available in round and sculptured profiles for ColorScape™ and sculptured profile only for ColorSpec™. ConnectStep™ will automatically adjusts for step depths between 9 ½" and 22."

3. Visually impaired options shall be available in [Rubber (Type TS)] stair treads with highly visible full 2" abrasive strip in contrasting or non-contrasting colors.]

NO SUBSTITUTIONS

2.02 WALL BASE MATERIALS

A. Provide [0.080 in. (2.0 mm)] [1/8 in. (3.2 mm)] thick, [2 1/2 in. (6.35 cm)] [4 in. (10.16 cm)] [6 in. (15.24 cm)] high conforming to ASTM F 1861, [Type TV - Vinyl, Thermoplastic] [Type TP - Rubber, Thermoplastic], [Type TS – Thermoset Rubber].

2.03 ADHESIVES

A. Provide Mannington [MR-715 / MR-721 Epoxy Adhesive] [MR-725 Polyurethane Adhesive] or [MR-911 Acrylic Adhesive] under the flooring, Wall Base Adhesive at the wall base as recommended by the manufacturer.

2.04 ACCESSORIES

A. For patching, smoothing, and leveling monolithic subfloors (concrete, terrazzo, quarry tile, ceramic tile, and certain metals), provide Mannington [MVP-2023 Cement-Based

Underlayment].

B. For sealing joints between the top of wall base or integral cove cap and irregular wall surfaces such as masonry, provide plastic filler applied according to the manufacturer's recommendations.

C. Provide transition/reducing strips tapered to meet abutting materials.

D. Provide threshold of thickness and width as shown on the drawings.

E. Provide resilient edge strips of width shown on the drawings, of equal gauge to the flooring, homogeneous vinyl or rubber composition, tapered or bullnose edge, with color to match or contrast with the flooring, or as selected by the Architect from standard colors available.

F. Provide metal edge strips of width shown on the drawings and of required thickness to protect exposed edges of the flooring. Provide units of maximum available length to minimize the number of joints. Use butt-type metal edge strips for concealed anchorage, or overlap-type metal edge strips for exposed anchorage. Unless otherwise shown, provide strips made of extruded aluminum with a mill finish.

PART 3 EXECUTION

3.01 INSPECTION

A. Examine subfloors prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.

B. Inspect subfloors prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; and other foreign materials that might prevent adhesive bond. Visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.

C. Report conditions contrary to contract requirements that would prevent a proper installation. Do not proceed with the installation until unsatisfactory conditions have been corrected.

D. Failure to call attention to defects or imperfections will be construed as acceptance and approval of the subfloor. Installation indicates acceptance of substrates with regard to conditions existing at the time of installation.

3.02 PREPARATION

A. Smooth concrete surfaces, removing rough areas, projections, ridges, and bumps, and filling low spots, control or construction joints, and other defects with Mannington [MVP-2023 Cement-Based Underlayment] as recommended by the flooring manufacturer.

B. Remove paint, varnish, oils, release agents, sealers, and waxes. Remove residual adhesives as recommended by the flooring manufacturer. Remove curing and hardening compounds not compatible with the adhesives used, as indicated by a bond test or by the compound manufacturer's recommendations for flooring. Avoid organic solvents.

C. Perform subfloor Calcium Chloride Tests (and Bond Tests) as described in "Mannington's Professional Installation Guide," to determine if surfaces are dry; free of curing and hardening compounds, old adhesive, and other coatings; and ready to receive flooring.

D. Vacuum or broom-clean surfaces to be covered immediately before the application of flooring. Make subfloor free from dust, dirt, grease, and all foreign materials.

3.03 INSTALLATION OF FLOORING

A. Install flooring in strict accordance with the "Mannington Rubber Stair Tread Installation Instructions".

B. Install flooring wall to wall before the installation of floor-set cabinets, casework, furniture, equipment, movable partitions, etc. Extend flooring into toe spaces, door recesses, closets, and similar openings as shown on the drawings.

C. If required, install flooring on pan-type floor access covers. Maintain continuity of color and pattern within pieces of flooring installed on these covers. Adhere flooring to the subfloor around covers and to covers.

D. Scribe, cut, and fit to permanent fixtures, columns, walls, partitions, pipes, outlets, and built-in furniture and cabinets.

E. Install flooring with adhesives, tools, and procedures in strict accordance with the manufacturer's written instructions. Observe the recommended adhesive trowel notching, open times, and working times.

3.04 INSTALLATION OF ACCESSORIES

A. Apply top set wall base to walls, columns, casework, and other permanent fixtures in areas where top-set base is required. Install base in lengths as long as practical, with inside corners fabricated from base materials that are mitered or coped. Tightly bond base to vertical substrate with continuous contact at horizontal and vertical surfaces.

B. Fill voids with plastic filler along the top edge of the resilient wall base or integral cove cap on masonry surfaces or other similar irregular substrates.

C. Place resilient edge strips tightly butted to flooring, and secure with adhesive recommended by the edge strip manufacturer. Install edge strips at edges of flooring that would otherwise be exposed.

D. Apply [butt-type] [overlap] metal edge strips where shown on the drawings, [before] [after] flooring installation. Secure units to the substrate, complying with the edge strip manufacturer's recommendations.

3.05 CLEANING AND PROTECTION

A. Perform initial maintenance according to the latest edition of the manufacturer's maintenance and warranty literature. Protect installed flooring as recommended by the flooring manufacturer against damage from rolling loads, other trades, or the placement of fixtures and furnishings.

ARCHITECTURAL GUIDE SPECIFICATIONS

MANNINGTON OPTIMUM EDGE™ RUBBER WALL BASE

MANNINGTON PREMIUM EDGE™ RUBBER WALL BASE

MANNINGTON EDGE™ VINYL WALL BASE

Section 09 65 13.13 – Resilient Wall Base

[Thermoset Rubber Type-TS}, [Co-Extruded Thermoplastic Rubber Type-TP],

[Thermoplastic Vinyl – Type TV]

Updated March 2012

Mannington Mills, Inc.

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SECTION 09 65 13.13

RESILIENT RUBBER WALL BASE

PART 1 GENERAL

1.01 THIS SECTION INCLUDES

A. Wall base and accessories as shown on the drawings and schedules and as indicated by the requirements of this section.

1.02 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract (including General and Supplementary Conditions and Division 1 sections) apply to the work of this section.

B. ASTM D2240 Standard Test Method for Rubber Property – Durometer Hardness

C. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

D. ASTM F-1861 Type TS, Group 1, ASTMF-1861 Type TP, Group 1, and ASTM F-1861 Type TV, Group 1 "Standard Specification Resilient Wall Base."

1.03 RELATED SECTIONS

A. Other Division 9 sections for floor finishes related to this section but not the work of this section.

B. Division 3 Concrete; not the work of this section.

C. Division 6 Wood and Plastics; not the work of this section.

D. Division 7 Thermal and Moisture Protection; not the work of this section.

1.04 QUALITY ASSURANCE AND REGULATORY REQUIREMENTS

A. Select an installer who is competent in the installation of Mannington wall base.

B. If required, provide types of wall base and accessories supplied by one manufacturer, including leveling and patching compounds, and adhesives.

C. If required, provide wall base material to meet the following fire test performance criteria as tested by a recognized independent testing laboratory:

a. ASTM E 648 Critical Radiant Flux of 0.45 watts per sq. cm. or greater, Class I.

b. ASTM E 662 (Smoke Generation) Maximum Specific Optical Density of 450 or less.

1.05 SUBMITTALS

A. Submit shop drawings, seaming plan, coving details, and manufacturer's technical data, installation and maintenance instructions ("Mannington Wall Base Installation Instructions").

B. Submit the manufacturer's standard samples showing the required colors for wall base, corners, and applicable accessories.

C. If required, submit the manufacturer's certification that the wall base has been tested by an independent laboratory and complies with the required fire tests.

1.06 ENVIRONMENTAL CONDITIONS

A. Deliver materials in good condition to the jobsite in the manufacturer's original unopened containers that bear the name and brand of the manufacturer, project identification, and shipping and handling instructions.

B. Store materials in a clean, dry, enclosed space off the ground, and protected from the weather and from extremes of heat and cold. Protect adhesives from freezing. Store wall base, adhesives and accessories in the spaces where they will be installed for at least 48 hours before beginning installation.

C. Maintain a minimum temperature in the spaces to receive the wall base and accessories of 65°F (18°C) and a maximum temperature of 85°F (29°C) for at least 48 hours before, during, and for not less than 48 hours after installation. Thereafter, maintain a minimum temperature of 55°F (13°C) in areas where work is completed. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances.

D. Install wall base and accessories after the other finishing operations, including painting, have been completed. Close spaces to traffic during the installation of the wall base.

PART 2 PRODUCTS

2.01 RESILIENT RUBBER WALL BASE MATERIALS

A. Provide Mannington [Optimum Edge Rubber Wall Base-Thermoset Vulcanized SBR, Type TS} {Premium Edge™ Rubber Wall Base, Co-extruded thermoplastic rubber – Type TP] [Mannington Edge Vinyl Wall Base, Type TV], manufactured by Mannington Mills, Inc., in [insert color] [color selected from the range currently available from Mannington Mills, Inc.]. The Wall Base shall meet "Standard Specification Resilient Rubber Wall Base" of [Thermoset Vulcanized SBR, Type TS (ASTM F-1861 Type TS, Group 1)] [Co-extruded Thermoplastic Rubber-Type TP (ASTM F-1861, Type TP, Group 1] [Co-extruded Thermoplastic Vinyl, Type TV (ASTM F-1861, Type TV, Group 1)].

B. Available in finish of [Optimum Edge, Type TS, smooth satin finish] [Premium Edge, Type TP smooth matte finish], [Mannington Edge, Type TV matte finish] Thickness shall be (1/8", 3.175 mm). Cove profile heights available in [2 ½" (63.5 mm)], [4" (101.6 mm)] and [6" (152.4 mm)]. Toeless profile available in [2 ½" (63.5 mm)],[4" (101.6 mm)] and[6" (152.4 mm)]. Available lengths are 4' (1219.2 mm) or 100' (3048.0 cm) continuous rolls.

C. Mannington corners available [Optimum Edge factory molded corners-specify (jobsite wrapped) or (molded) corners], [Premium Edge factory pre-formed corners are available-specify (jobsite wrapped) or (factory pre-formed) corners], and [Mannington Edge factory pre-formed corners are available-specify (jobsite wrapped) or (factory pre-formed) corners.]

2.03 ADHESIVES

A. Provide Mannington [MR-101 Acrylic Wall Base Adhesive] as recommended by the manufacturer.

2.04 ACCESSORIES

A. For patching, smoothing, and leveling monolithic subfloors (concrete, terrazzo, quarry tile, ceramic tile, and certain metals), provide Mannington [MVP-2023] and [MVP-2023 additive]. For sealing joints between the top of wall base or integral cove cap and irregular wall surfaces such as masonry, provide plastic filler applied according to the manufacturer's recommendations.

PART 3 EXECUTION

3.01 INSPECTION

A. Examine walls prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.

B. Inspect walls prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; and other foreign materials that might prevent adhesive bond. Visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.

C. Report conditions contrary to contract requirements that would prevent a proper installation. Do not proceed with the installation until unsatisfactory conditions have been corrected.

D. Failure to call attention to defects or imperfections will be construed as acceptance and approval of the wall. Installation indicates acceptance of substrates with regard to conditions existing at the time of installation.

3.02 PREPARATION

A. Smooth wall surfaces, removing rough areas, projections, ridges, and bumps, and filling low spots and other defects with [Mannington, Patch and Leveling Compound] as recommended by the manufacturer.

B. Remove paint, varnish, oils, release agents, sealers, and waxes. Remove residual adhesives as recommended by the manufacturer. Remove curing and hardening compounds not compatible with the adhesives used, as indicated by a bond test or by the compound manufacturer's recommendations. Avoid organic solvents.

3.03 INSTALLATION OF WALL BASE

A. Apply wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

B. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.

C. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

D. Do not scratch wall base during installation.

E. On masonry surfaces or other similar irregular substrates, fill voids along top edge of wall base with manufacturer's recommended adhesive filler material.

F. Pre-molded Corners: Install pre-molded corners before installing straight pieces.

G. Job-formed Corners:

1. Outside Corners: Use straight pieces of maximum lengths possible. Form without producing discoloration (whitening) at bends. Shave back of base at points where bends occur and remove strips perpendicular to length of base that are only deep enough to produce a snug fit without removing more than half the wall base thickness.

2. Inside Corners: Use straight pieces of maximum lengths possible. Form by cutting an inverted V-shaped notch in toe of wall base at the point where corner is formed. Shave back of base where necessary to produce a snug fit to substrate.

3.04 CLEANING AND PROTECTION

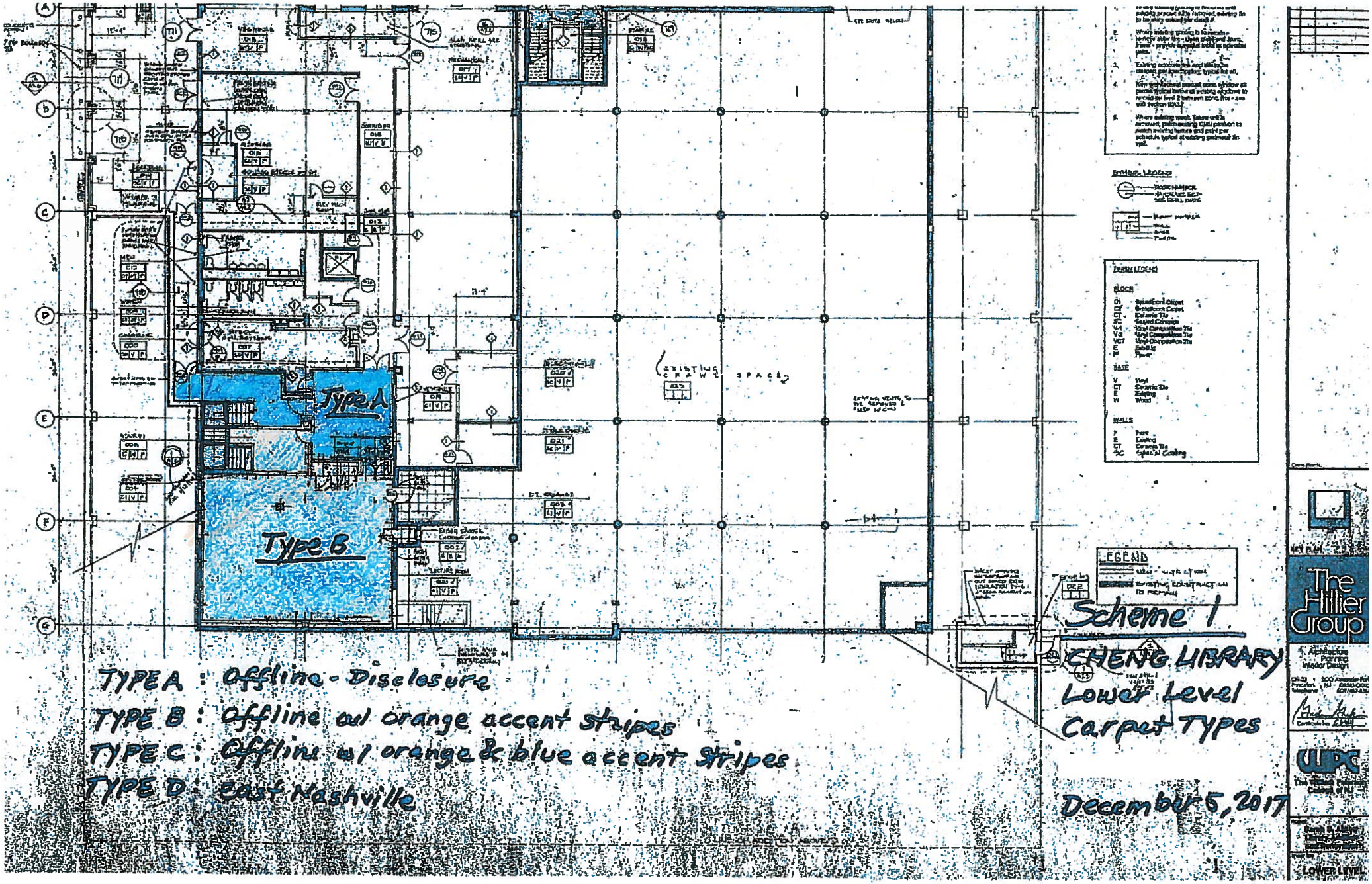
A. Perform initial maintenance according to the "Mannington Wall Base Installation Instructions."

ATTACHMENT 2 – PROPOSED CARPET & FLOOR COVERING LOCATIONS

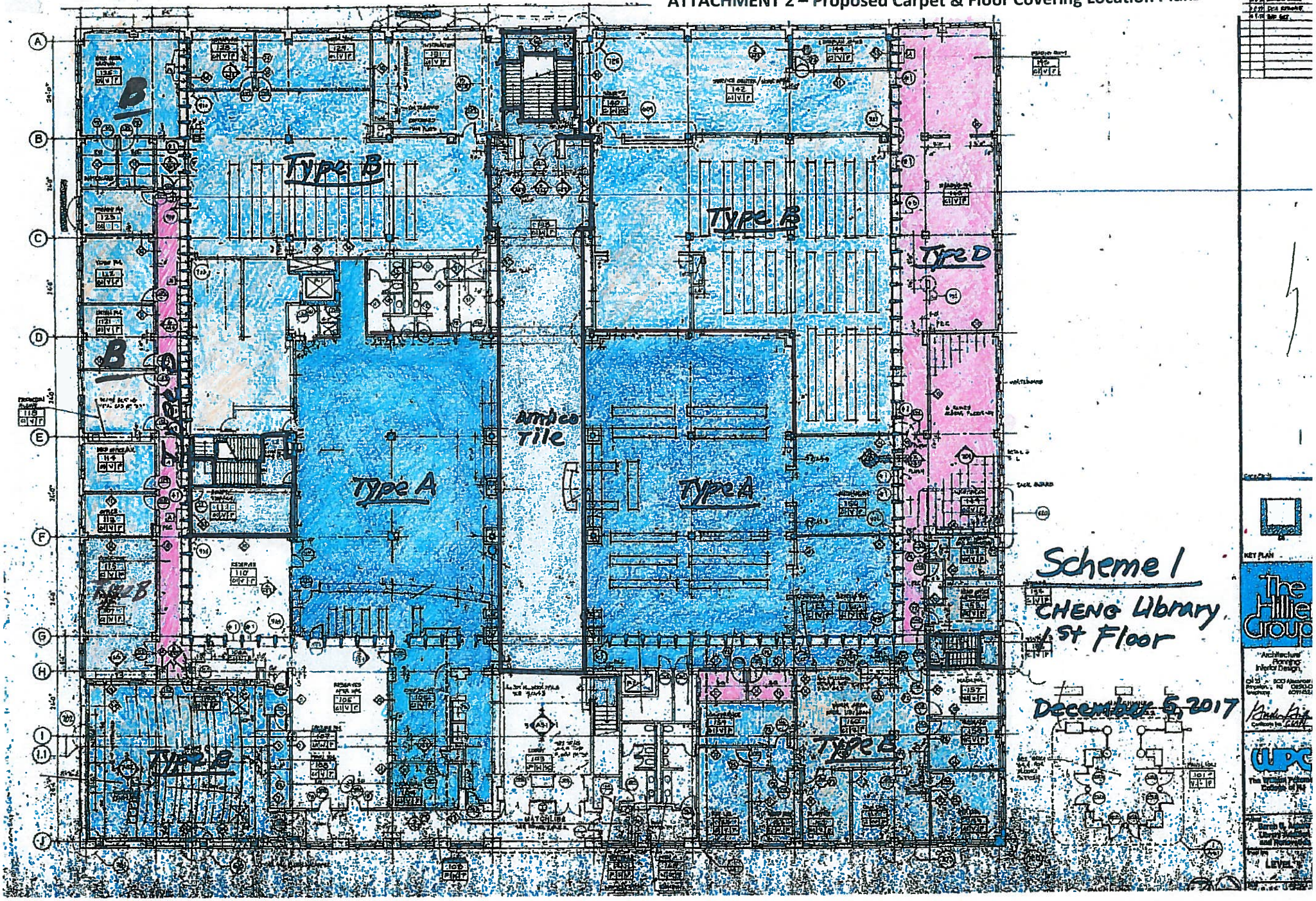
William Paterson University of New Jersey

PROJECT NAME:
Cheng Library Carpeting

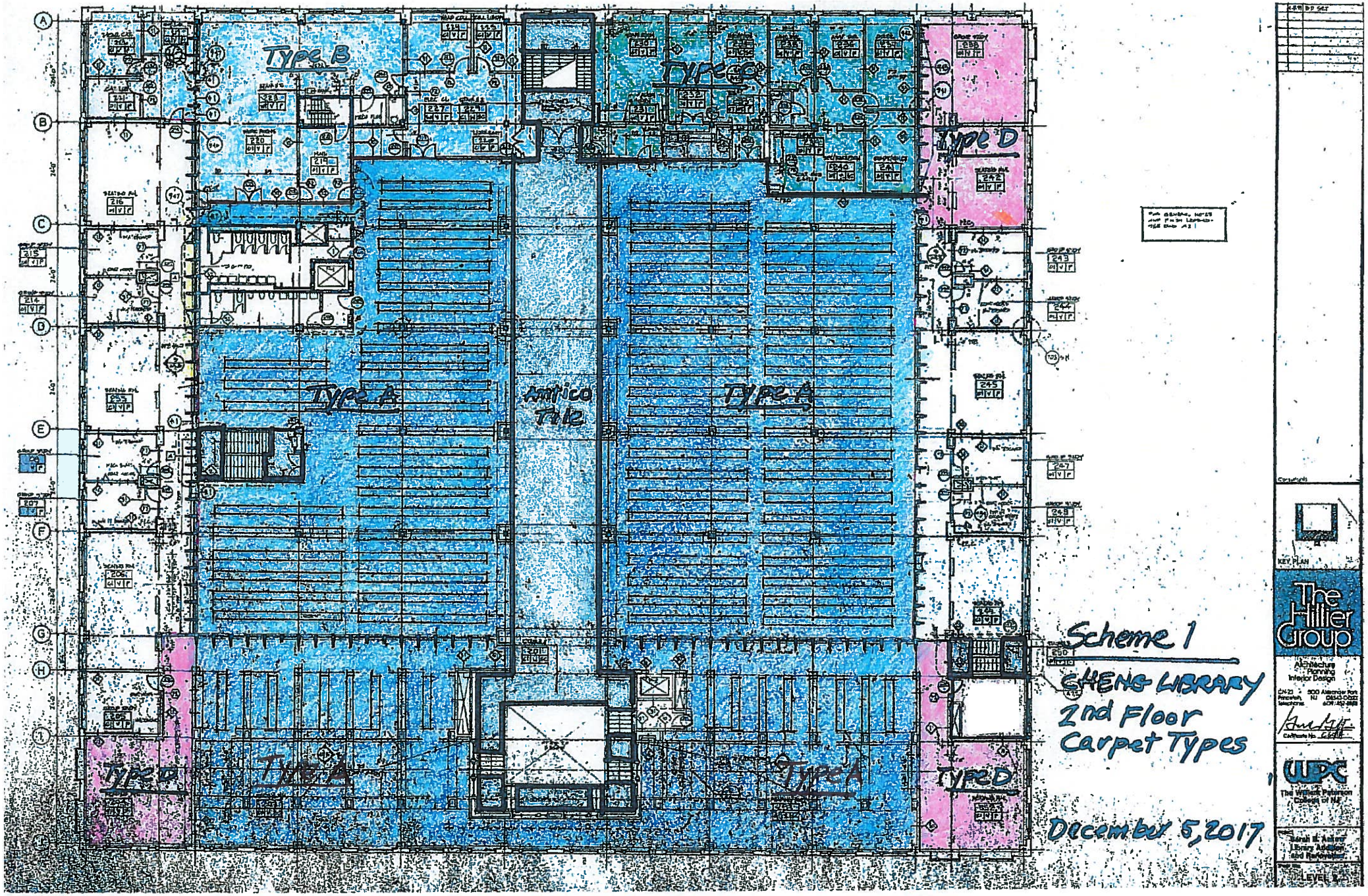
PROJECT NUMBER:
WP-18-06-10


Type A
Type B
EXISTING CRAWL SPACE
LEGEND
Scheme 1
CHENG LIBRARY
Lower Level
Carpet Types
TYPE A : Offline - Disclosure
TYPE B : Offline w/ orange accent stripes
TYPE C : Offline w/ orange & blue accent stripes
TYPE D : East Nashville
December 5, 2017
The Hillier Group
LOWER LEVEL

ATTACHMENT 2 – Proposed Carpet & Floor Covering Location Plans



ATTACHMENT 2 – Proposed Carpet & Floor Covering Location Plans

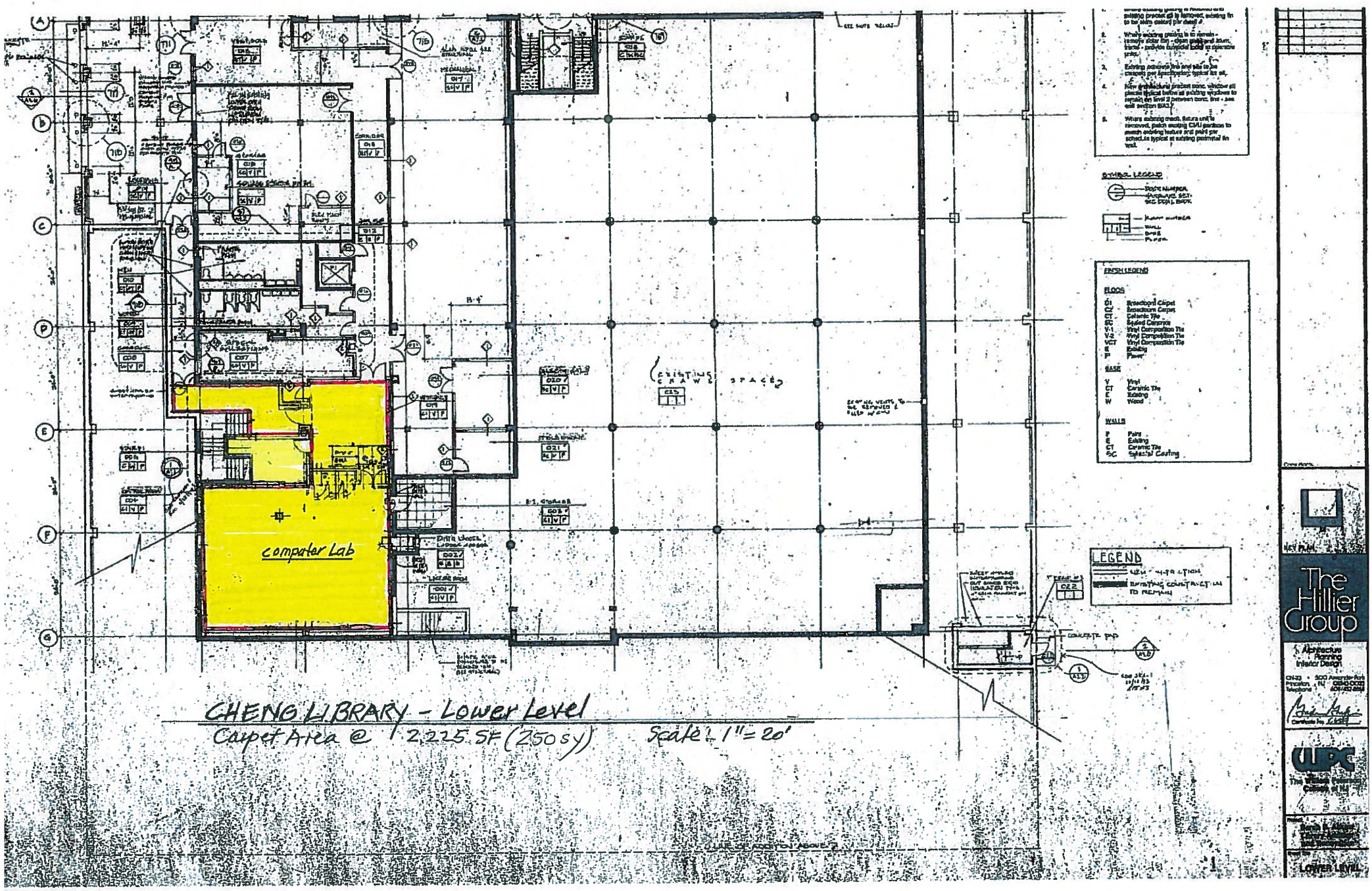


ATTACHMENT 1 – EXISTING LIBRARY CARPET LOCATIONS

William Paterson University of New Jersey

PROJECT NAME:
Cheng Library Carpeting

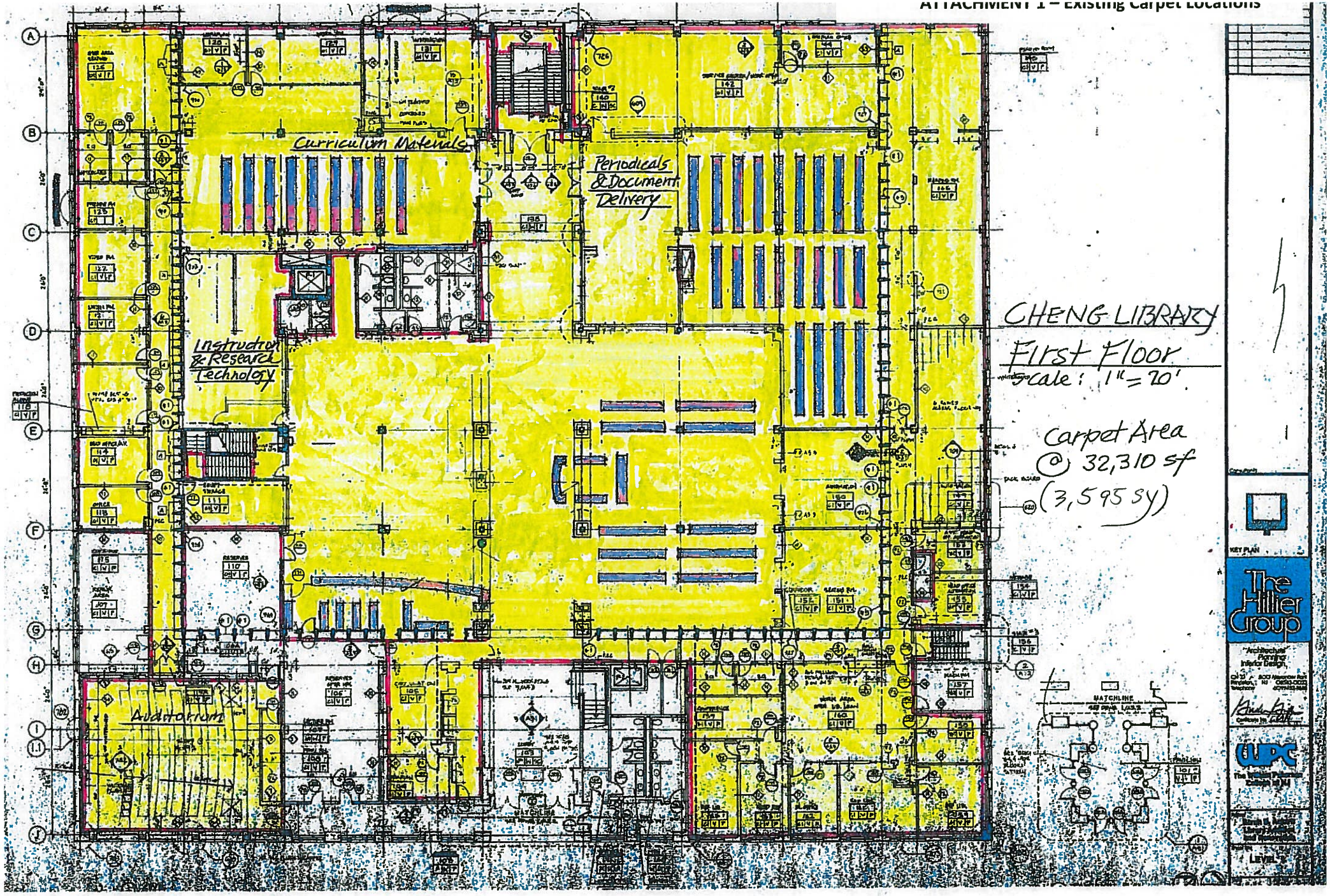
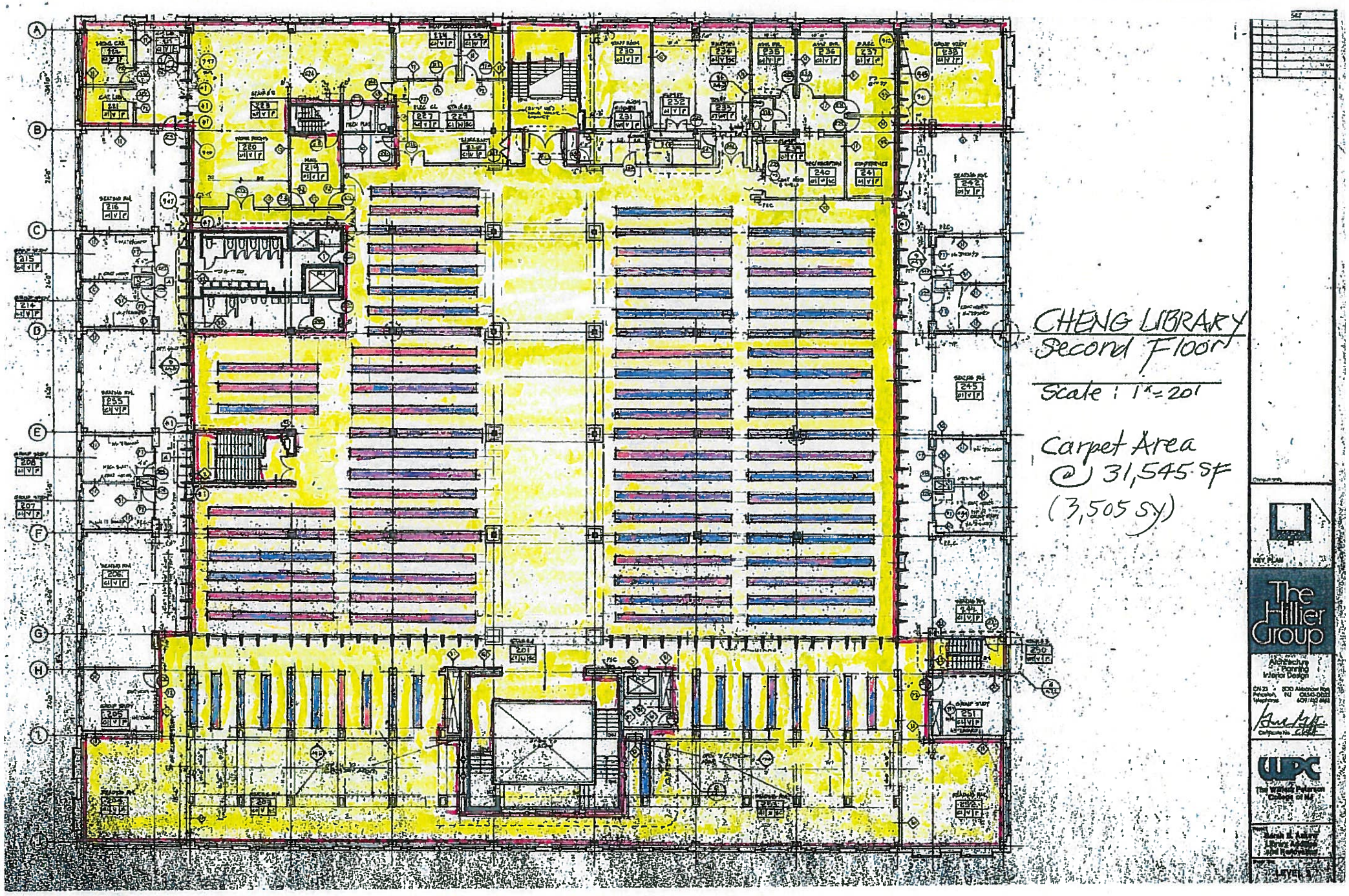
PROJECT NUMBER:
WP-18-06-10



CHENG LIBRARY - Lower Level

Carpet Area @ 2,225 SF (250 sy) Scale: 1" = 20'

ATTACHMENT 1 – Existing Carpet Locations



ATTACHMENT 1 – Existing Carpet Locations