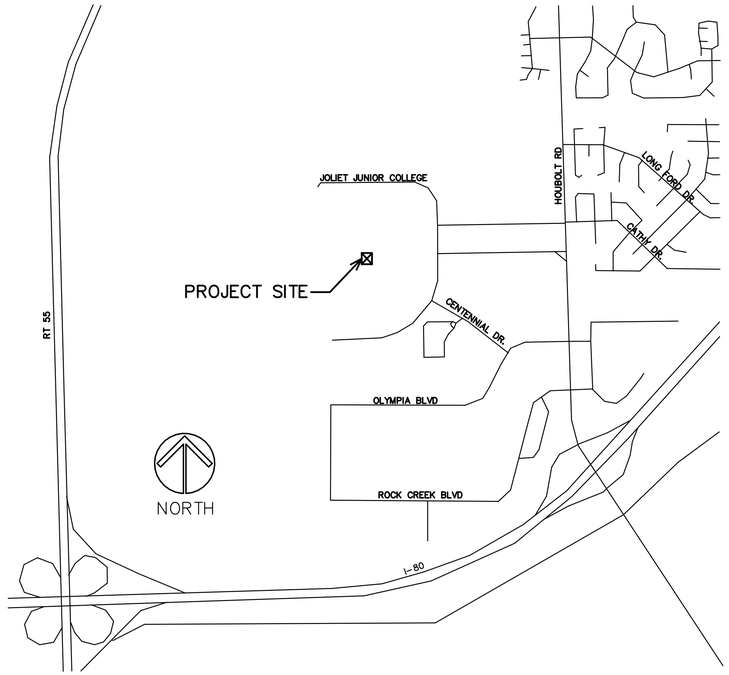
LOCATION MAP



INDEX OF SHEETS

NOTE:
GENERAL CONTRACTOR TO PROVIDE A $5,000 ALLOWANCE IN HIS/HER BID FOR UNFORESEEN/MISCELLANEOUS CONDITIONS. WHEN FIGURING THIS ALLOWANCE IN THE BID, THE CONTRACTOR IS TO INCLUDE ALL NECESSARY OVERHEAD AND PROFIT TO CARRY THIS DOLLAR VOLUME. THIS ALLOWANCE IS NOT FOR THE CONTRACTOR'S BENEFIT, AND IS ONLY AUTHORIZED TO CHARGE AGAINST THIS ALLOWANCE WHEN DIRECTED AND APPROVED BY JOLIET JUNIOR COLLEGE. THE CONTRACTOR WILL BE ALLOWED TO INVOICE FOR DIRECT MATERIAL AND RAW LABOR COSTS ONLY.

NORTH AUTO SHOP FLOORING REPLACEMENT

JOLIET JUNIOR COLLEGE
BUILDING C
1215 HOUBOLT ROAD
JOLIET, ILLINOIS

STROMSLAND + DE YOUNG + PRYBYS
ARCHITECTURE GROUP
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1215 HOUBOLT ROAD
JOLIET, ILLINOIS

DATE: 3/14/2025
REVISED:

PROJECT NO. 2502-01

SHEET NUMBER T1

OF 1 SHEETS

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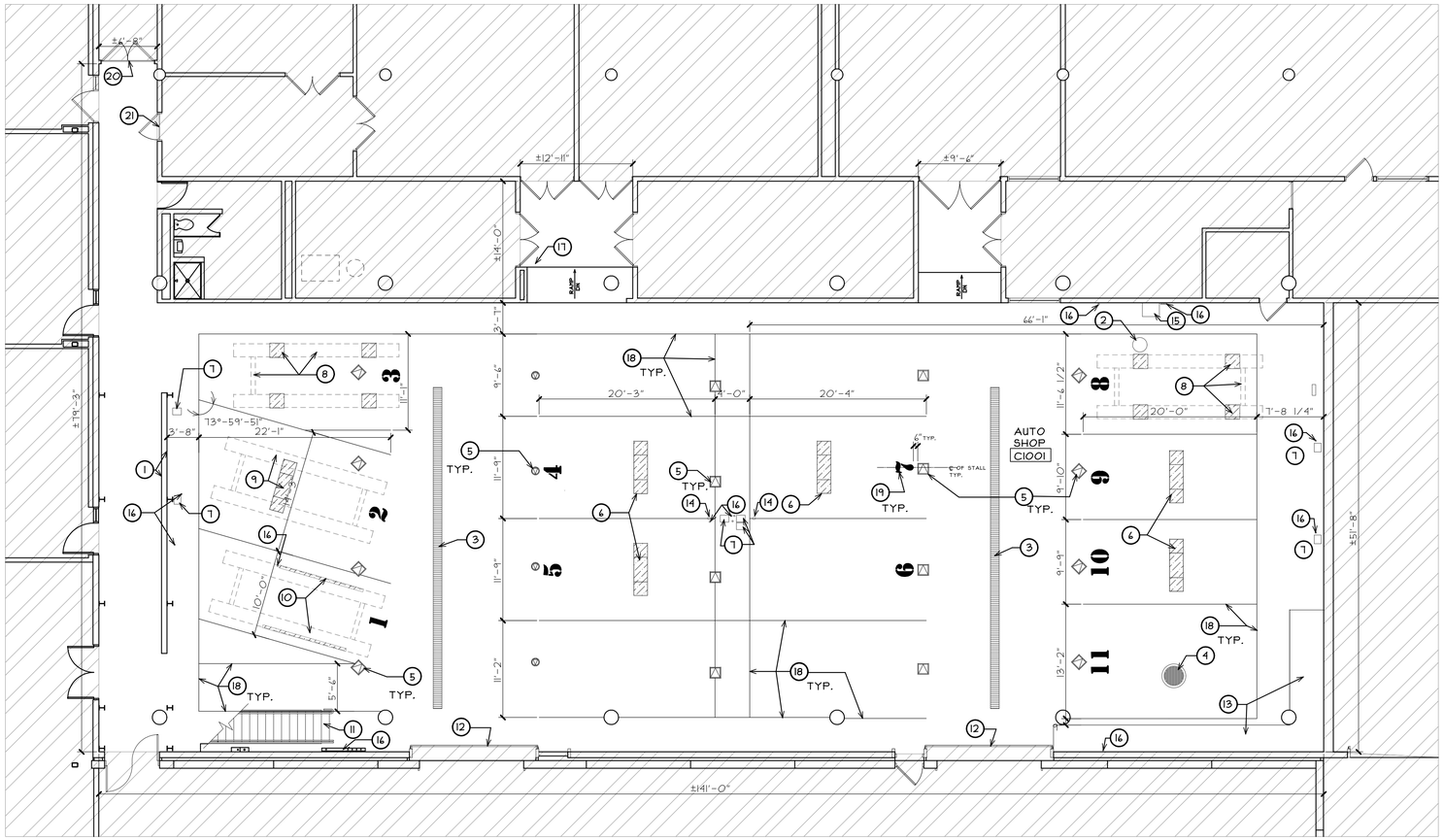


PARTIAL FIRST FLOOR PLAN

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

FLOOR PLAN LEGEND

HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE.

GENERAL NOTES

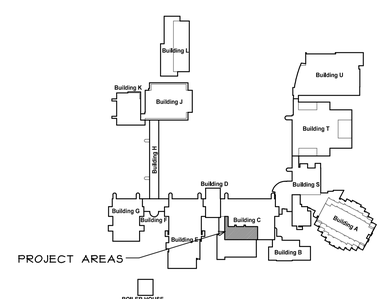
A. EXISTING NORTH AUTO SHOP AND HALLWAY AREAS FLOOR FINISH IN PROJECT AREA IS PAINTED CONCRETE WITH TEXTURED FINISH. EXISTING FLOOR FINISH TO BE REMOVED AND PROPERLY PREPPED FOR NEW FLOOR FINISH. (TYPICAL) EXISTING WALL BASE CANT TO REMAIN AND BE REUSED FOR NEW FLOORING WALL BASE TERMINATION.

B. EXISTING FURNITURE AND EQUIPMENT TO BE REMOVED BY OWNERS STAFF. (U.N.O.)(V.I.F.)

C. PROVIDE NEW FLUID APPLIED RESINOUS FLOORING AND STOP NEW FLOORING AT TOP OF EXISTING WALL BASE CANT AND FLOORING TRANSITIONS. (V.I.F.) (U.N.O.)

KEY NOTES

1. EXISTING WALL BASE TO BE REMOVED COMPLETELY FROM CMU BLOCK WALLS AFTER FLOOR INSTALLATION PROVIDE NEW FACILITY STANDARD 4" HIGH RUBBER WALL BASE (JOHNSONITE. COLOR #40 BLACK)ON THESE CMU WALL ONLY.(V.I.F.)
2. EXISTING FLOOR WOOD COVER TO REMAIN. (V.I.F.) (COVER TO BE PAINTED TO MATCH STRIPES)EXISTING FLOOR FINISH AND CONCRETE TO BE GROUND OUT SO NEW FLOOR FINISH WILL BE FLUSH WITH TOP OF EXISTING COVER
3. EXISTING TRENCH DRAIN TO REMAIN. (V.I.F.) EXISTING FLOOR FINISH AND CONCRETE TO BE GROUND OUT SO NEW FLOOR FINISH WILL BE FLUSH WITH TOP OF EXISTING TRENCH DRAIN FLANGE. PROVIDE PROTECTION DURING CONSTRUCTION FROM DUST AND DEBRIS FROM FALLING IN DRAIN
4. EXISTING FLOOR DRAIN TO REMAIN. (V.I.F) EXISTING FLOOR FINISH AND CONCRETE TO BE GROUND OUT SO NEW FLOOR FINISH WILL BE FLUSH WITH TOP OF EXISTING COVER. PROVIDE PROTECTION DURING CONSTRUCTION FROM AND DEBRIS FALLING IN DRAIN.
5. EXISTING FLOOR BOX FOR VEHICLE EXHAUST TO REMAIN. (V.I.F.) EXISTING FLOOR FINISH AND CONCRETE TO BE GROUND OUT SO NEW FLOOR FINISH WILL BE FLUSH WITH TOP OF EXISTING FLOOR BOX COVER.
6. EXISTING VEHICLE LIFT RECESSED PIT AND COVER TO REMAIN. (V.I.F.) PROVIDE PROTECTION DURING CONSTRUCTION.
7. EXISTING FLOOR MOUNTED VEHICLE LIFT CONTROL LOCATIONS TO REMAIN. (V.I.F.)
8. EXISTING FLOOR MOUNTED DRIVE ON VEHICLE ALIGNMENT RACK TO REMAIN. (V.I.F.) EXISTING RAISED MOUNTING PADS TO BE HAVE NEW FLOOR FINISH. (V.I.F.) EXISTING EQUIPMENT TO BE LIFTED TO HIGHEST SETTING AND PROTECTED DURING CONSTRUCTION. EXISTING WIRING AND PROTECTION COVER THAT RUN ON FLOOR TO BE RELOCATED TO COMPLETE NEW FLOOR FINISH AND THEN RE-INSTALLED.
9. EXISTING FLOOR MOUNTED DRIVE ON VEHICLE LIFT RACK TO REMAIN. EXISTING LIFT BOX RECESSED PIT AND COVER TO REMAIN. (V.I.F.) EXISTING EQUIPMENT TO BE LIFTED TO HIGHEST SETTING AND PROTECTED DURING CONSTRUCTION. .
10. EXISTING FLOOR MOUNTED DRIVE ON VEHICLE LIFT RACK TO REMAIN. (V.I.F.) EXISTING FLOOR MOUNTED CHANNEL TO REMAIN AND BE PROTECTED. (V.I.F.) EXISTING EQUIPMENT TO BE LIFTED TO HIGHEST SETTING AND PROTECTED DURING CONSTRUCTION. .
11. EXISTING METAL STAIRS TO REMAIN PROVIDE PROTECTION DURING CONSTRUCTION.
12. NEW FLOORING TO EXTEND TO EXISTING METAL FLOOR STRIP AT OVER HEAD DOOR. (V.I.F.) EXISTING METAL STRIP TO BE SANDED AND PAINTED YELLOW TO MATCH STRIPING
13. EXISTING RAISED CONCRETE PAD TO REMAIN AND NEW FLOOR FINISH TO CONTINUE UP AND ON RAISED PAD. (V.I.F.)
14. EXISTING METAL PIPE BOLLARD TO REMAIN. (PROVIDE PROTECTION DURING CONSTRUCTION. (V.I.F.)
15. EXISTING ELECTRICAL TRANSFORMER TO REMAIN. (PROVIDE PROTECTION DURING CONSTRUCTION. (V.I.F.)
16. EXISTING THRU FLOOR CONDUIT/ PIPE TO REMAIN. (V.I.F.)
17. EXISTING FLOOR MOUNTED DOOR STOP TO BE REMOVED TO INSTALL NEW FLOOR FINISH AND THEN RE-INSTALLED. (V.I.F.)
18. PROVIDE NEW 6" WIDE FLOOR STRIPING (YELLOW COLOR) BASE BID SW ACROLON 218 HS - MPI # 12 PAINT OR APPROVED EQUAL. COORDINATE PAINT COMPATIBILITY WITH RESINOUS FLOORING MANUFACTURER AND THE STRIPING LAYOUT WITH OWNER PRIOR TO INSTALLING.
    ALTERNATE NO. 1
    PROVIDE INTEGRAL STRIPING INCORPORATED IN FLOORING SYSTEM.
19. PROVIDE 2'-0" TALL STENCIL NUMBERING (HELVETICA FONT) ON FLOOR (YELLOW COLOR) BASE BID SW ACROLON 218 HS - MPI # 12 PAINT OR APPROVED EQUAL. COORDINATE PAINT COMPATIBILITY WITH RESINOUS FLOORING MANUFACTURER AND THE NUMBERING WITH OWNER PRIOR TO INSTALLING.
    ALTERNATE NO. 1
    PROVIDE INTEGRAL FLOOR NUMBERING INCORPORATED IN FLOORING SYSTEM.
20. EXISTING RUBBER TRANSITION STRIP TO BE REMOVED. PROVIDE NEW ALUMINUM TRANSITION STRIP (L& DECO BY SCHLUTER OR APPROVED EQUAL) BETWEEN NEW EPOXY FLOORING AND EXISTING VCT FLOORING. (SCREW DOWN TRANSITION STRIP LEG PROVIDE BUILT UP MATERIAL TO BRING EPOXY UP TO TOP OF TRANSITION STRIP THAT IS FLUSH WITH EXISTING FLOORING)(V.I.F.)
21. EXISTING RUBBER TRANSITION STRIP TO BE REMOVED. PROVIDE NEW ALUMINUM TRANSITION STRIP (L& DECO BY SCHLUTER OR APPROVED EQUAL) BETWEEN NEW EPOXY FLOORING AND EXISTING CARPET FLOORING. (SCREW DOWN TRANSITION STRIP LEG PROVIDE BUILT UP MATERIAL TO BRING EPOXY UP TO TOP OF TRANSITION STRIP THAT IS FLUSH WITH EXISTING FLOORING)(V.I.F.)



KEY PLAN

SCALE: N.T.S.

NORTH

stromsland + de young + prybys
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A1
OF 2 SHEETS

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SECTION 096723 - RESINOUS FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes resinous flooring system; epoxy based multi-roller applied resinous aggregate flooring system with urethane topcoat.

1. Application Method: Roller applied.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include manufacturer's technical data, application instructions, and recommendations for each resinous flooring component required.

B. Samples for Initial Selection: For each type of topcoat product indicated.

C. Samples for Verification: For each type of resinous flooring system and each color and gloss of topcoat indicated.

1. Submit Samples on rigid backing, 8 inches square.
2. Apply coats on Samples in steps to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

D. Product List: Cross-reference to coating system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For resinous flooring system to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. No request for substitution shall be considered that would change the generic type of floor system specified. Equivalent materials of other manufactures may be substituted only on approval of Architect or Engineer. Request for substitution will only be considered only if submitted 10 days prior to bid date. Request will be subject to specification requirements described in this section.

B. Accessibility Requirements: Comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)" and the "Illinois Accessibility Code."

C. Installer Qualifications: Engage an experienced installer (applicator) who is experienced in applying resinous flooring systems similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance, and who is acceptable to resinous flooring manufacturer.

1. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
2. Contractor shall have completed at least 10 projects of similar size and complexity.

D. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, through one source from a single manufacturer, with not less than ten years of successful experience in manufacturing and installing principal materials described in this section. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.

E. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation. In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained between 60 deg F to 90 deg F dry, out of direct sunlight and in accordance with the manufacturer's recommendations.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

B. All materials used shall be factory pre-weighed and pre-packaged in single, easy to manage batches to eliminate on site mixing errors. No on site weighing or volumetric measurements allowed

1.7 FIELD CONDITIONS

A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.

1. Maintain material and substrate temperature between 60 and 90 deg F during resinous flooring application and for not less than 24 hours after application.

B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.

C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application, unless manufacturer recommends a longer period.

PART 2 - PRODUCTS

2.1 RESINOUS FLOORING-

A. Basis-of Design Product: Subject to compliance with requirements, provide product indicated or an equal product subject to a compliance review with the following:

1. Dur- A- Flex, Inc by Sherwin- Williams, Shop Floor, Epoxy-Based seamless flooring system

B. System Characteristics:

1. Color: Light Grey.(Match existing south side auto shop flooring color)
2. Top Layer Armor Top with Dur-A -Grit
3. Alternate No.1 –Yellow integral striping and 2' tall integral stencil numbers.
4. Overall System Thickness: Nominal 1/8" (inch).

C. System Components: Manufacturer's standard components that are compatible with each other and as follows:

1. Primer — Dura-A-Glaze #4WB

a.	Resin:	Epoxy
b.	Percent Solids:	56 %
c.	VOC	2 g/L
d.	Bond Strength to Concrete ASTM D 4541	550 psi, substrates fails
e.	Hardness, ASTM D 3363	3H
f.	Elongation, ASTM D 2370	9 %
g.	Flexibility (1/4: Cylindrical mandrel), ASTM D 1737	Pass
h.	Impact Resistance, MIL D-2794	>160
i.	Abrasion Resistance ASTM D 4060, CS 17 wheel, 1,000 g Load	30 mg loss

2. Body Coat and Grout Coat(s): — Dur-A-Glaze Shop Floor

a.	VOC	8 g/L
b.	Compressive Strength, ASTM D 695	17,500 psi
c.	Tensile Strength, ASTM D 638	4,000 psi
d.	Flexural Strength, ASTM D 790	6,250 psi
e.	Abrasion Resistance, ASTM D 4060	
f.	C-10 Wheel, 1,000 gm load, 1,000 cycles	24 mg loss
g.	Flame Spread/NFPA- 101, ASTM E 84	Class B
h.	Impact Resistance MIL D-3134	Pass
i.	Water Absorption. MIL D-24613	0.04%

3. Topcoat: — Armor Top

a.	Percent Solids	95.2 %	
b.	VOC	0 g/L	
c.	Tensile Strength, ASTM D 2370	7,000 psi	
d.	Adhesion, ASTM 4541	Substrate Failure	
e.	Hardness, ASTM D 3363	4H	
f.	60° Gloss ASTM D 523	70	
g.	Abrasion Resistance, ASTM D4060 CS 17 wheel (1,000 g load) 1,000 cycles	Gloss: 4	Satin: 8 mg loss with grit
		10	12 mg loss without grit
i.	Pot Life, 70 F, 50% RH	45 Minutes	
j.	Full Chemical Resistance	7 days	

2.2 ACCESSORY MATERIALS

A. Patching and Fill Material: Resinous product of or approved by Resinous flooring manufacturer and recommended by manufacturer for application indicated. Resinous based materials only. Cementitious or single component products not accepted.

B. Joint Sealant: Type recommended or produced by Resinous flooring manufacturer for type of service and joint condition indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.

3.2 PREPARATION

A. General: Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated.

B. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.

C. Moisture Testing: Perform tests recommended by manufacturer and as follows.

a. Perform relative humidity test using is situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.
b. If the vapor emission exceeds 75 % relative humidity or 3 lbs/1,000 sf/24 hrs then moisture mitigation system must be installed prior to resinous flooring installation. Slab-on grade substrates without a vapor barrier may also require the moisture mitigation system.

D. There shall be no visible moisture present on the surface at the time of application of the system. Compressed oil-free air and/or a light passing of a propane torch may be used to dry the substrate.

E. Mechanical surface preparation:

a. Shot blast all surfaces to receive flooring system with a mobile steel shot, dust recycling machine (Blastrac or equal). All surface and embedded accumulations of paint, toppings hardened concrete layers, laitance, power trowel finishes and other similar surface characteristics shall be completely removed leaving a bare concrete surface having a minimum profile of CSP 4-5 as described by the International Concrete Repair Institute.
b. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment.
c. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 1/4 inch
key cut shall be made to properly seat the system, providing a smooth transition between areas. The
detail cut shall also apply to drain perimeters and expansion joint edges.
d. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chipped-out and repaired per manufacturer's recommendations.

F. At spalled or worn areas, mechanically remove loose or delaminated concrete to a sound concrete and patch per manufactures recommendations.

3.3 APPLICATION

A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.

1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
3. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.
4. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations.

a. Apply joint sealant to comply with manufacturer's written recommendations.

B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.

C. Apply broadcast coat in thickness indicated for flooring system. Apply with squeegee and back rolled at the rate of 90-100 sf/gal.

1. Alternate No.1 if accepted provide integral striping and numbers per owners layout and drawings prior to top coat

D. Apply topcoat(s) in number of coats indicated for flooring system and at spreading rates recommended in writing by manufacturer.

1. Mix resin, hardener and grit per manufacturer's instructions
2. Finished floor to be 1/8" nominal thickness.

E. Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process. Close area of application for a minimum of 18 hours.

3.4 FIELD QUALITY CONTROL

A. Tests, Inspection as follows:

1. Temperature test.

a. Air, substrate temperature and if applicable, dew point.

2. Coverage rates.

a. Rates for all layers shall be monitored by checking quantity of material used against the area covered.

3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.

D. Protect resinous flooring materials from damage and wear during construction operation. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and method of application.

E. Cleaning: Remove temporary covering and clean resinous flooring just prior to final inspection. Use cleaning materials and procedures recommended by resinous flooring manufacturer

END OF SECTION 096723

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