

CONTRACT DOCUMENTS AND SPECIFICATIONS

for

Citywide Painting Services

RFP #01-24

Karen S. Conard, City Manager

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City of Portsmouth Portsmouth, NH
Department of Public Works

RFP# 01-24 Citywide Painting Services

**REQUEST FOR
PROPOSAL**

Sealed bid proposals, **plainly marked, “RFP #01-24 Citywide Painting Services” on the outside of the mailing envelope as well as the sealed bid envelope,** addressed to the Finance/Purchasing Department 3rd Floor, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801 will be accepted until **Monday August 14, 2023 at 10:00 a.m.**

The City of Portsmouth is seeking proposals from qualified painting contractors for services on all its facilities. Work will include interior and exterior painting. Contractor must be EPA Certified in the use of lead safe work practices required by the Renovate, Repair and Paint rule. The City seeks a three-year contract with potential for two (2) two-year renewals.

Proposal specifications and proposal forms may be obtained from the City’s website at www.cityofportsmouth.com/finance/purchasing . **There will be no pre bid meeting.**

Questions should be emailed to purchasing@cityofportsmouth.com. August 8, 2023 at 4:00 p.m. Addendum to this request for proposal, if any, including written answers to questions, will be posted on the City of Portsmouth website under the project heading by August 10, 2023 at 4:30 p.m. Addenda and updates will NOT be sent directly to vendors.

The City of Portsmouth reserves the right to reject any or all proposals, to waive technical or legal deficiencies, and to accept any proposal and to negotiate such terms and conditions of a final contract that may be in the best interest of the City.

CITY OF PORTSMOUTH
 Portsmouth, NH
 Department of Public Works
RFP #01-24 Citywide Painting Services

1. INTRODUCTION

1.1 Purpose

The City of Portsmouth (hereafter referred to as Owner) is requesting bids for a time and materials contract for Painting Services under a term agreement. It is the Owner's intent to award to multiple contractors. Work will be on any of the city's facilities in Portsmouth or Madbury.

1.2 Contract Period

It is the City's intent that any contract resulting from this solicitation will be for seven (7) years. However, the initial contract period will be for three (3) years with the option for two (2) two-year renewals with the mutual consent of the City of Portsmouth, and the Contractor. The effective date for the initial contract period will be Contract Award date to **June 30, 2026**.

1.3 Solicitation Timeline (actual dates may vary slightly based upon individual circumstances)

Deadline for Written Questions:	August 8, 2023, at 4:00 p.m.
Issue Addendum by:	August 10, 2023, at 4:30 p.m.
Submittals Due:	August 14, 2023, at 10:00 a.m.

2. SCOPE OF WORK/TECHNICAL SPECIFICATIONS

2.1 SCOPE

- A. The City of Portsmouth (COP) Public Works Department requires a time and materials contract for painting trade services under a term agreement contract. Services will include multiple municipal facility projects encompassing alteration, renovation, remodeling and major repairs to COP structures and properties.

2.2 SPECIFICATIONS

- A. The scope of this contract may include, but is not limited to, the following capabilities:
1. High pressure washing and abrasive blasting in accordance with MPI paint preparation requirement.
 2. Surface preparation and prime painting surfaces using Lead Safe Work Practice requirements of the EPA Renovate, Repair and Paint rule prior to repainting.
 3. Surface preparation of substrates as required for acceptance of painting, including cleaning, small crack repair, patching, caulking, re-nailing, and making good surfaces and areas to the limits defined under *MPI* preparation requirements.
 4. Surface preparation and prime painting surfaces for wall coverings prior to installation in accordance with *MPI* and wall covering manufacturer's requirements.
 5. Specific pre-treatments noted herein or specified in the *MPI* Architectural Painting Specification Manual.
 6. Priming (except where pre-primed with an approved primer) and painting of structural steel,

miscellaneous metal, ornamental metal and primed steel equipment.

7. Priming and back-priming of wood materials as noted herein or specified in the *MPI* Architectural Painting Specification Manual.
8. Painting of all semi-concealed areas (e.g., inside of light troughs and valances, behind grilles, and projecting edges above and below sight lines).
9. Painting and finishing of all exposed to view elevator equipment and components (i.e. doors and door frames) unless pre-finished.
10. Painting of exposed to view mechanical (heating, ventilating, and plumbing) services and equipment, e.g., ducts, sprinkler piping, etc., and electrical work to extent noted on Finish Schedule unless pre-finished.
11. Re-painting of existing surfaces and finishes when adjacent to new painting work where applicable including surface preparation, prime and finish coats in accordance with MPI Repainting requirements.
12. Provision of safe and adequate ventilation as required over and above temporary ventilation supplied by others, where toxic and/or volatile / flammable materials are being used.

2.3 CONSTRAINTS ON CONTRACTORS

- A. The Contractor is responsible for receiving and storing their own materials, including unloading of delivery trucks, checking deliveries, transportation to the work site. Material and fabricated pieces may be stored on site only with permission of the assigned Facilities Project Manager.
- B. COP reserves the right to purchase material or job required merchandise. The Owner will be required to deliver such materials to the job site or compensate the Contractor for providing labor to relocate owner furnished materials to the job site.
- C. Most work will be scheduled during normal business hours, Monday through Friday. Other days/hours may be arranged with the assigned Facilities Project Manager as needed to meet project requirements.
- D. The Contractor is responsible for any necessary drawings to accomplish the required tasks. If engineering is required, COP will provide these services.
- E. COP reserves all rights to terminate work at any time and will make payment of the work completed to that point.
- F. All work will be performed according to Local, State and Federal codes under the authority having jurisdiction.
- G. The COP reserves the right to solicit quotes from another vendor or bid all work.

2.4 CONDITIONS

- A. Any work area will be checked for asbestos and removed by COP personnel. The Contractor is responsible for reporting any suspect materials to COP.
- B. Contractor will issue detailed quotes for individual projects. Quotes will be based on rates equal to

or less than the proposed rates submitted in the Contractors Proposal. Project costs will not exceed the quoted price unless there is a change in the work. Changes must be reviewed and approved by the Public Works Director.

- C. Services required of the Contractor(s) will be provided on an as-needed basis in response to a specific scope of services.
- D. A Purchase Order will be issued for individual projects prior to the Contractor entering the premises to begin work on any projects.
- E. Schedules will be developed for individual projects or assignments.
- F. Selected Contractors will provide the requested services in a prompt and timely fashion.
- G. Invoices must be submitted for a percentage of completed work using the AIA standardized method of billing with full back up documentation. If additional equipment is required beyond the standard tools of the trade, it must be obtained and billed to the job with prior approval of the assigned Facilities Project Manager.
- H. Material supplied at the Owner's request will be billed at cost plus markup for handling.
- I. Leased or rented equipment not available through the General Contractor will be billed at the invoice price plus actual expenses (fuel, maintenance, insurance, etc.) plus markup if applicable.
- J. Services of sub-contractors providing services under this contract will be billed at invoice cost plus markup.
- K. COP does not guarantee a minimum commitment.
- L. COP reserves the right to award to multiple contractors.
- M. COP reserves the right to add term Contractors to meet Owner needs.
- N. COP does not accept fuel surcharges

3. SOLICITATION PROCESS INSTRUCTIONS/INFORMATION

3.1 Overview of Solicitation Process/Timeline

- A. Solicitation Release. The solicitation is available on the City's website at <http://www.cityofportsmouth.com/finance/purchasing.htm>. under the project name.
- B. Pre-proposal meeting – There will be no pre-bid meeting for this solicitation.
- C. Questions. All questions concerning this solicitation must be submitted in writing to purchasing@cityofportsmouth.com. All questions must be received by the Deadline for Questions (stated in Section 1.3). Questions received after the deadline will not be answered.
- D. Questions will be answered via written addenda posted on the City website.
 - 1. It is the responsibility of the Respondent to verify that s/he has reviewed all addenda and other required documentation.
- E. Responses are due by the date/time specified on the INVITATION TO BID. Late responses will not be considered.
- F. All responses will be reviewed and evaluated by the evaluation committee.
- G. It is expected that a contract will be signed and become effective by the date listed or another

mutually agreeable date.

3.2 GENERAL INSTRUCTIONS

- A. By responding to this solicitation, the Contractor acknowledges that s/he has read and understands the information contained within this solicitation and has taken the contents into account in the preparation of the response.
- B. The cost for developing a response shall be absorbed by the Contractor.
- C. COP considers all terms and conditions to be accepted unconditionally by a Contractor unless written exceptions are made to specific clauses of this solicitation. Such exceptions may, however, be used as a basis for rejection of a response.
- D. Failure of a Contractor to follow the instructions of this solicitation may result in rejection of the Contractor's response.
- E. The Contractor certifies, by submitting a response, that neither it nor its principals are presently debarred, suspended, proposed for debarment, have been declared ineligible, or voluntarily excluded from participation in this transaction (contract) by any governmental department or agency. If the Contractor cannot certify this statement, attach a written explanation for review by the COP.
- F. In the case of a discrepancy between the unit price and the extended price, the unit price shall prevail.

3.3 FORMAT & CONTENTS OF PROPOSAL

- A. Responses should address all sections of this solicitation. The response must be in sufficient detail to allow the evaluation committee the ability to evaluate the submission. Submissions must follow the same sequence and numbering scheme used in this request for bid.
- B. Provide the following information in a single document (unless otherwise noted) with bookmarks to indicate Tab # and Title. Information should be submitted as an attachment (s) on the Quote.
 - Tab 1 Cover Sheet. Clearly identify the Contractor submitting the response.
 - Tab 2 Executive Summary. (i.e., cover letter) signed by an authorized officer (no more than three pages).
 - Tab 3 Staffing & Organization. Provide a description of the Contractor's organization and staffing including the names and titles of all personnel who would be assigned to the contract.
 - Tab 4 Detailed Plan. Provide a detailed plan for fulfilling the contract. Include a description of what your Firm views as its responsibilities as well as a complete pricing structure for services to be provided. Pricing shall be submitted in the eSource RFX Sections tab. Suppliers must provide a price on each line. If applicable, additional pricing information should also be included in this tab section.
 - Tab 5 Owner Requirements. If applicable; provide complete information for any services, information, equipment, or space to be provided by Owner.
 - Tab 6 Client References. Provide at least three references where your firm has provided a similar scope of services. For each reference, include company name, address, telephone

number, fax number, email address, primary contact, and description of services provided for these clients.

Tab 7 Other Information. Provide any other information, which your Firm may choose to reveal to the evaluation committee.

Tab 8 Statement of Qualification. Complete in its entirety.

Tab 9 Financial Statements. Acknowledgement that your firm is willing to comply with the following: Financial statements are not required to be submitted with your response. However, prior to an award, the University may request financial statements from your firm, and/or credit reports or letters from your bank and/or suppliers. If requested, and your firm does not comply with the request, this may be grounds for rejection of your response. Financial statements are considered confidential by the COP. They will be destroyed when said documents are no longer required.

C. The Respondent shall provide unit pricing as called for on the Price Proposal Form.

D. The Respondent shall provide three references.

3.4 EVALUATION COMMITTEE RIGHTS/RULES OF CONDUCT

- A. The evaluation committee expressly reserves the right to reject any and all bids without penalty, to waive all technicalities and irregularities and deviations of bids from this request for bid, to decide whether a bid does or does not substantially comply with the requirements of this request for bid, to be the final judge as to which is the best overall bid, and to award a contract to the Contractor whose bid it considers to be in the best interest to COP.
- B. It is the Owner's intent to award to a minimum of three (3) contractors to be available on an on-call basis as services are needed.
- C. The evaluation committee reserves the right to award a contract without discussion or negotiation if it determines that such an award will result in fair and reasonable prices and would be the most advantageous to COP.
- D. In the event that the awarded Contractor refuses to enter into a contract, his/her bid will be rejected.
- E. The evaluation committee will evaluate all bids against the evaluation criteria listed in this request for bid and determine which Contractor will best meet the needs of COP.
- F. In the event that a contract acceptable to the committee cannot be executed with the top Contractor, the committee may eliminate that Contractor from further consideration. The committee may then proceed to conduct negotiations and planning sessions with the Contractor next preferred among the Contractors who have not been eliminated. Such processes will be continued until either an acceptable contract is executed or all bids have been eliminated.
- G. COP reserves the right to negotiate simultaneously with more than one Contractor.

3.5 EVALUATION CRITERIA

Evaluation criteria will be based on, but not necessarily limited to the following factors:

- A. Overall suitability of the response for current and future needs of COP
- B. Ability to deliver service in as short a time as possible

- C. Competitiveness and stability of pricing
- D. Response to Section 2. Scope of Work/Technical Specifications
- E. Financial stability and ability of Firm to fulfill the contract
- F. Proposed approach
- G. Services offered
- H. Support
- I. References from other companies/institutions for which your Firm has provided similar programs
- J. Comprehensiveness of response
- K. Conformance of response to instructions for format and contents of the solicitation
- L. Negative findings or judgments on the basis of any one of the above criteria may result in elimination of a given response from further consideration.
- M. Proven experience working with Municipalities, schools and other City managed facilities.

4 EXECUTION OF A CONTRACT

A. Contract

- 1) The Owners agent listed above will work with the selected Contractor's representative(s) to develop a mutually agreeable contract.
- 2} All terms and conditions will be taken into consideration when developing the contract as will the specific tasks and deliverables outlined in Section 2, Scope of Work/Technical Specifications.

B. Contract Terms and Conditions

- 1) Contractor shall guarantee their pricing structure for a specific period of time. If pricing changes, Contractor must request increase in writing, and increase must be approved by COP, in writing, with a minimum of thirty (30) days' notice.
- 2) Extensions

The intent to renew or not to renew the contract by either party shall be filed in writing with the Owner's Agent by May 1, 2026, for the succeeding contract year. The Owner's Agent is to be advised if that is not possible.
- 3) It is COP's intent that the required negotiation and approvals for any extension will be completed by June 1st of the Contract year for the succeeding contract year. The Owner's Agent will represent COP during negotiations.
- 4) The Contract Agreement is part of this RFP document.

4.3 CONTRACT TERMINATION/CANCELLATION

- A. The Owner may without prejudice to any right or remedy, and after giving the Contractor and its sureties written notice, terminate the contract forthwith if any of the following conditions exist:

- 1) If the Contractor should be adjudged bankrupt;
 - 2) If the Contractor shall make a general assignment for the benefit of its creditors, or a receiver should be appointed over the property;
 - 3) If the work under this contract shall be abandoned or for deficiencies not corrected within a reasonable time; and,
 - 4) If this contract or any part hereof shall be subcontracted without previous written consent of the COP.
- B. The City of Portsmouth reserves the right to cancel the contract awarded to the Contractor, if in the City's judgment, performance under the contract is unsatisfactory. It is understood, however, that if at any time during the term of the contract performance thereunder is deemed to be unsatisfactory, the COP shall so notify the Contractor and demand that the Contractor shall correct such unsatisfactory conditions immediately but not more than ten (10) days from such notification. If such corrections are not made within the allotted time period, COP may terminate the contract within thirty (30) days of the initial notification date.
- C. The contract will automatically terminate at the end of the initial contract period unless both parties agree to a renegotiated optional extension.
- D. Either party may without prejudice to any right or remedy, and after giving the other party thirty (30) calendar days written notice, terminate the contract.

4.5 CONTRACTOR'S RIGHTS AND RESPONSIBILITIES

- A. The Contractor agrees to maintain records arising from the operation of this contract for a period of two (2) years following its termination or expiration date, unless permission to the contrary is given by the COP in writing. The Contractor agrees to provide access to its accounting information pertaining to this COP contract in the event an audit is requested.
- B. Paul Henry will be the designated representative for this contract and shall be the official operational contact for the Contractor. Questions of conduct, methods, quantity, quality, scheduling, etc. to this individual during the term of the contract.
- C. The Contractor will be responsible for purchasing merchandise and services and executing contracts in its own name and at its own cost and expense and on its own credit.
- D. The Contractor will be responsible for verifying that all agents, employees and subcontractors assigned to the COP projects hold current and appropriate State of New Hampshire trade licenses, certifications or other credentials to perform the work required as applicable to the project. The Contractors' agents, employees and subcontractors must present current credentials upon request.
- D. The Contractor shall comply with all applicable government regulations related to the employment, compensation, and payment of personnel. A list of employees shall be furnished to COP.
- E. The Contractor agrees to undertake criminal background checks and sex offender registry checks in advance of assigning any of its employees or agents to COP projects. The Contractor must present evidence of criminal background checks upon request.
- F. COP may request removal and/or reassignment, for cause, of Contractor employee, agent or subcontractor. The Contractor agrees to comply with such requests within ten days of receipt of

the request and reassign said employee, agent, or subcontractor so that they will no longer provide goods or services pursuant to this Agreement. COP shall pre-approve all new and re-hired Contractor personnel.

- G. The successful Contractor shall be fully responsible for the provision and support of goods and services required hereafter. All subcontractors hired by the Contractor must adhere to the original RFB and the terms of any resulting agreement.
- H. The Contractor, subcontractor and their employees, shall observe all COP rules and regulations that are applicable to the COP employees while on the worksite.
- I. The Contractor shall not offer employment to members of COP Staff without first notifying COP twenty-four hours in advance of the offer.
- J. The Contractor agents, employees and subcontractors will be professional and courteous in all their dealings with COP staff, as well as any other customers, contractors or individuals with whom they come in contact with in the course of providing goods or services hereunder.
- K. The Contractor shall be responsible to COP for the acts and omissions of all persons directly or indirectly employed by him.
- L. The Contractor agrees that all employees will be neatly attired.
- M. The Contractor shall provide adequate supervision. The Contractor or his authorized agent will make sufficient daily inspections to insure that the work is performed as required by this contract.
- N. Persons employed shall be at least 18 years of age and not have a criminal conviction, unless a written waiver is granted by COP.

4.6 RIGHTS AFFORDED TO BOTH PARTIES

- A. Awarded Contractor shall indemnify and hold harmless the COP and its affiliates, trustees, officers, directors, employees and agents from and against any and all liabilities, claims, damages, awards, judgments, costs and expenses (including reasonable attorneys' fees) arising out of its negligent acts or omissions of the negligent acts or omissions of its employees, agents, contractors or affiliates. This section shall survive termination of the contract.
- B. If, because of riots, war, public emergency or calamity, fire, earthquake, Acts of God, government restriction, labor disturbance or strike, business operations at the University/College shall be interrupted or stopped, performance of this contract, with the exception of moneys already due and owing shall be suspended and excused to the extent commensurate with such interfering occurrence, and the expiration date of the contract may be extended for a period of time equal to the time that such default in performance is excused.
- C. The contract shall be governed by and construed in accordance with the laws of the State of New Hampshire. In the event any provision of these terms and conditions shall be declared illegal or unenforceable by a competent court within this jurisdiction the remaining provisions shall remain in full force and effect. Any litigation related to this agreement will be brought and maintained in courts within the State of New Hampshire.
- D. This contract is one of specialized service. Neither party may assign this contract without the written consent of the other party; and any assignment attempted without such consent shall give the other party the immediate right to cancel this contract except that the Contractor may assign this contract with the consent of Owner to any subsidiary or affiliate of the Contractor or any

corporation into which the Contractor or its successor may be merged, converted or consolidated, or which may otherwise succeed to substantially all of its assets; but the Contractor shall during the term hereof remain liable for its obligation hereunder.

4.7 INSURANCE REQUIREMENTS

Within ten (10) business days after the Owner mails, emails, sends a fax transmission or delivers a Notice of Acceptance, Agreement or Purchase Order, or prior to beginning work onsite, whichever is sooner, the successful Contractor shall deliver to the Owner the Certificate of Insurance as specified in the COP Insurance Requirements.

4.8 PAYMENT BOND AND PERFORMANCE BOND - NOT REQUIRED

4.9 MEDIATION

- A. In the event the parties are unable to resolve a dispute, controversy or claim arising under this agreement, then either party may give written notice to the other party of its intention to mediate. Any dispute arising under this Agreement may be settled by mediation in the State of New Hampshire in accord with such.
- B. If the dispute has not been resolved through mediation within thirty (30) days after the written notice beginning the mediation process (or a longer period, if the parties agree to extend the mediation), the mediation shall terminate, and the parties shall be free to litigate the matter.
- C. In the event of any mediation or litigation arising under this Agreement, each party shall be responsible for its own costs and expenses arising therefrom, including any and all attorney's fees. Neither party shall seek reimbursement from the other party.

INSURANCE REQUIREMENTS

Insurance shall be in such form as will protect the Contractor from all claims and liabilities for damages for bodily injury, including accidental death, and for property damage, which may arise from operations under this contract whether such operation by himself or by anyone directly or indirectly employed by him.

Amount of Insurance

- A) Commercial General Liability: Bodily injury or Property Damage - \$2,000,000
Per occurrence and general aggregate
- B) Automobile and Truck Liability: Bodily Injury or Property Damage - \$2,000,000
Per occurrence and general aggregate

Coverage requirements can be met with excess policies

Additionally, the Contractor shall purchase and maintain the following types of insurance:

- A) Workers Comprehensive Insurance coverage for all people employed by the Contractor to perform work on this project. This insurance shall at a minimum meet the requirements of the most current laws of the State of New Hampshire.
- B) Contractual Liability Insurance coverage in the amounts specified above under Comprehensive General Liability.
- C) Product and Completed Operations coverage to be included in the amounts specified above under Comprehensive General Liability.

ADDITIONAL INSURED

All liability policies (including any excess policies used to meet coverage requirements) shall include the City of Portsmouth, New Hampshire as named Additional Insured.

- A) The contractor's insurance shall be primary in the event of a loss.
- B) The Additional Insured endorsement must include language specifically stating that the entity is to be covered for all activities performed by, or on behalf of, the contractor, including the City of Portsmouth's general supervision of the contractor.
- C) City of Portsmouth shall be listed as a Certificate Holder. The City shall be identified as follows:

City of Portsmouth
Attn: Legal Department
1 Junkins Avenue Portsmouth, NH 03801

NOTICE OF INTENT TO AWARD

Date:

To:

IN AS MUCH as you were the low responsible bidder for work entitled:

RFP #01-24 Citywide Painting Services

You are hereby notified that the City intends to award the above referenced project to you.

Immediately take the necessary steps to execute the Contract:

- 1) Provide required proof of insurance within ten (10) calendar days from the date of this Notice.
- 2) Initiate the security clearance requirements with the Portsmouth Police Department

The City reserves the right to revoke this Notice if you fail to take the necessary steps to execute this Contract.

City of Portsmouth
Portsmouth, New Hampshire

Judie Belanger,
Director Finance & Administration

NOTICE TO PROCEED

DATE:

RFP #01-24 Citywide Painting Services

TO:

YOU ARE HEREBY NOTIFIED TO COMMENCE WORK IN ACCORDANCE WITH THE AGREEMENT DATED, _____

CITY OF PORTSMOUTH, N.H.

BY: Peter H. Rice, PE
Public Works Director

ACCEPTANCE OF NOTICE

RECEIPT OF THE ABOVE NOTICE TO PROCEED IS HEREBY ACKNOWLEDGED BY

This the _____ day of _____ 20_

By: _____

Title: _____

GENERAL REQUIREMENTS

1. AUTHORITY OF CITY REPRESENTATIVE

- (a) All work shall be done under supervision and to the satisfaction of the Project Representative. The Project's Representative will decide all questions which may arise as to the quality and acceptability of materials furnished and work performed and as to the rate of progress of the work; all questions that may arise as to the interpretation of the plans and specifications; and all questions as to the acceptable fulfillment of the Contract by the Contractor.
- (b) The Project Representative will have the authority to suspend the work wholly or in part for such periods as he may deem necessary due to the failure of the Contractor to correct conditions unsafe for workers or the general public; for failure to carry out provisions of the Contract; for failure to carry out orders; for conditions considered unsuitable for the prosecution of the work, including unfit weather; or for any other condition or reason deemed to be in the public interest. The Contractor shall not be entitled any additional payments arising out of any such suspensions.
- (c) The Project Representative reserves the right to demand a certificate of compliance for a material or product used on the project. If the Project Representative determines the certificate of compliance is unacceptable, the Contractor may be required to provide engineering and testing services to guarantee that the material or product is suitable for use in the project, at its expense.

2. PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPES

- (a) The Contractor shall be responsible for all damage or injury to property of any character, during the prosecution of the work, resulting from any act, omission, neglect, or misconduct in his manner or method of executing the work, or at any time due to defective work or materials, and said responsibility will not be released until the project shall have been completed and accepted.
- (b) When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or as a result of the failure to perform work by the Contractor, the Contractor shall restore, at its own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing rebuilding, or otherwise restoring as may be directed, or the Contractor shall make good such damage or injury in an acceptable manner.
- (c) If the Contractor fails to repair, rebuild or otherwise restore such property as may be deemed necessary, the Owner, after 48 hour notice, may proceed to do so, and the cost thereof may be deducted from any money due or which may become due the Contractor under the contract.

3. MAINTENANCE DURING CONSTRUCTION

The Contractor shall maintain the work during construction and until the project is accepted. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and workers to ensure that the structure is kept in satisfactory conditions at all times.

4. SAFETY PRECAUTIONS

Upon commencement of work, the Contractor shall be responsible for initiating, maintaining and supervising all safety precautions necessary to ensure the safety of employees on the site, other persons who may be affected thereby, including the public, and other property at the site or adjacent thereto.

5. TEMPORARY FACILITIES

Storage Facilities: (a) Equipment and materials shall be stored in a location approved by the Project Representative; (b) Contractor shall protect all stored materials from damage by weather or accident and shall insure adequate drainage at and about the storage location; and prior to final acceptance of the work all temporary storage facilities and surplus stored materials shall be removed from the site.

Sanitary Facilities: Contractor shall be provided with reasonable access to toilet facilities for the use of the workers employed on the work.

Water Facilities: Contractor shall be provided with reasonable access to water facilities for construction operations.

Temporary Electricity: Contractor shall be provided with reasonable access to electrical power necessary for construction operation at the site.

6. PAYMENT AND GUARANTEES

General

- (a) The Contractor shall be liable to OWNER for failure to repair, correct, renew or replace, at his own expense, all damage due or attributable to defects or imperfections in the construction which defects or imperfections may be discovered before or at the time of the final inspection and acceptance of the work by the Project Representative.
- (b) No monies, payable under the contract or any part thereof, shall become due or payable if the Project Representative so elects, until the Contractor shall satisfy OWNER that the Contractor has fully settled or paid all labor performed or furnished for all equipment hired, including trucks, for all materials used, and for fuels, lubricants, power tools, hardware and supplies purchased by the Contractor and used in carrying out said contract and for labor and parts furnished upon the order of Contractor for the repair of equipment used in carrying out this contract; and the Project Representative, if so electing, may pay any and all such bills, in whole or in part.
- (c) Any extra work performed will be paid for at the price negotiated between OWNER and the Contractor. If no agreement can be negotiated, the Contractor will accept as payment for extra work, cost plus 15% (overhead and profit). Costs shall be substantiated by invoices and certified payroll.

Final Acceptance

- (a) Upon due notice from the Contractor of presumptive completion of the entire project, Project Representative will make an inspection. If all construction provided for and contemplated by the contract is found complete to their satisfaction, this inspection shall constitute the final inspection. Project Representative will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of the final inspection.
- (b) If, however, the Project Representative's inspection discloses any work in whole or in part, as being unsatisfactory, the Contractor will be given the necessary instructions for correction of such work, and the Contractor shall immediately comply with and execute such instructions. Upon correction of the work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Project Representative will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of final inspection.
- (c) When the project has been accepted and upon submission by the Contractor of all required reports, completed forms, affidavits, releases and certifications, OWNER will make final payment.

General Guaranty and Warranty of Title

- (a) Neither final payment nor any provision in the contract nor partial or entire use of the improvements embraced in this Contract by OWNER or the public shall constitute an acceptance of work not done in accordance with the Contract or relieve the Contractor of liability in respect to any express or implied warranties or responsibility for faulty materials or workmanship. The Contractor shall promptly remedy any defects in the work and pay for any damage to other work resulting there from which shall appear within a period of twelve (12) months from the date of final

acceptance of the work. Owner will give notice of defective materials and work with reasonable promptness.

- (b) No material, supplies or equipment to be installed or furnished under this Contract shall be purchased subject to any chattel mortgage or under a conditional sale, lease purchase or other agreement by which an interest therein or in any part thereof is retained by the Seller or supplier. The Contractor shall warrant good title to all materials, supplies and equipment installed or incorporated in the work and upon completion of all work, shall deliver the same together with all improvements and appurtenances constructed or placed thereon by him free from any claims, liens or charges. Neither the Contractor nor any person, firm or corporation furnishing any material or labor for any work covered by this Contract shall have the right to a lien upon any improvements or appurtenances thereon.
- (c) Nothing contained in this paragraph, however, shall defeat or impair the right of persons furnishing materials or labor to recover under any bond given by the Contractor for their protection or any rights under any law permitting such persons to look to funds due the Contractor in the hands of OWNER. The provisions of this paragraph shall be inserted in all subcontractors and material contracts and notice of its provisions shall be given to all persons furnishing materials for the work when no formal contract is entered into for such materials.
- (d) At completion of project, Contractor to provide Owner, written guarantee of one (1) year workmanship warranty.

STANDARD SPECIFICATIONS

All work on this contract is to be done in accordance with the following:

Master Painters Institute (MPI) Architectural Painting Specification Manual.

Master Painters Institute (MPI) Exterior Repainting Specification Manual.

Master Painters Institute (MPI) Interior Repainting Specification Manual.

EPA Renovate, Repair and Paint Rule

2018 International Building Code (IBC)

2018 International Existing Building Code (IEBC).

**RFP # 01-24 CITYWIDE PAINTING
SERVICES PROPOSAL FORM**

Contractor must complete all of the following items including Year 2 and Year 3 pricing information. (Hourly rates are to be total cost). Regular rate during normal work hours (8:00 a.m. to 4:00 p.m.) and emergency rate during non-work hours.

YEAR 1 – TO 6/30/2024

	<u>Normal Rate</u>	<u>Overtime Rate</u>
A. Supervisor	\$ _____/Hour	\$ _____/Hour
B. Painter	\$ _____/Hour	\$ _____/Hour
C. Materials Mark-up or Discount	_____ % (percentage over cost)	

YEAR 2 – TO 6/30/2025

A. Supervisor	\$ _____/Hour	\$ _____/Hour
B. Painter	\$ _____/Hour	\$ _____/Hour
C. Materials Mark-up or Discount	_____ % (percentage over cost)	

YEAR 3 – TO 6/30/2026

A. Supervisor	\$ _____/Hour	\$ _____/Hour
B. Painter	\$ _____/Hour	\$ _____/Hour
C. Materials Mark-up or Discount	_____ % (percentage over cost)	

PROPOSAL FORM (continued)

By signing below I agree that:

- I have reviewed the Specifications and Contract Terms and understand that these form the agreement between the City and the firm.
- I represent that I am an authorized representative of the firm and have the authority to enter into agreements.

Submitted By: _____
Print Name & Title

Date: _____

Signature: _____

Company: _____

Address: _____

City/State/Zip: _____

Telephone: _____

E-mail: _____

STATEMENT OF QUALIFICATIONS

Must be supplied with RFP

All questions must be answered and the data given must be clear and comprehensive. Add separate sheets if necessary

1. Name of Bidder
2. Permanent Main Office Address
3. Form of Entity
4. When Organized
5. Where Organized
6. How many years have you been engaged in the contracting business under your present name; also state names and dates of previous firm names, if any
7. Contracts on hand; (schedule these, showing gross amount of each contract and the approximate anticipated dates of completion).
8. General character of work performed by your company.
9. Have you failed within the last seven years to complete any work awarded to you?
_____(no)_____(yes). If so, where and why?
10. Have you defaulted on a contract within the last seven years?
_____(no)_____(yes). If so, where and why?
11. Have you ever failed to complete a project in the time allotment according to the Contract Documents?
_____(no)_____(yes). If so, where and why?

BIDDER'S QUALIFICATIONS continued

12. List the most important contracts recently executed by your company, stating approximate cost for each, and the month and year completed.

13. List your major equipment available for this contract.

14. List any subcontractors whom you would expect to use for this project and their scope of work (unless this work is to be done by your own organization).

Carpentry _____

Sealants _____

Scaffolding _____

15. Contractor must have participated in the EPA Renovation, Repair, and Painting (RRP) rule program and be certified by the EPA and State of New Hampshire to safely reduce the risk of lead paint dust during repainting preparation.

NH Lead Safe Renovator Certification # _____

Dated at _____ this _____ day of _____, 20____.

Name of Bidder

BY _____

TITLE _____

CONTRACT AGREEMENT

RFP #01-24 Citywide Painting Services

THIS AGREEMENT is made as of the ____ day of ____ in the year 2023 by and between the City of Portsmouth, New Hampshire (hereinafter call the Owner) and _____ (hereinafter called the Contractor). Owner and Contractor agree as follows:

ARTICLE I - Work - The Contractor shall provide at its expense, all labor, materials, equipment and incidentals as may be necessary for the expeditious and proper execution of those services described in the Work Scope.

ARTICLE II – COORDINATION – Facilities Director for the City of Portsmouth, or his/her authorized representative, will act as contact in connection with the scheduling and authorization of services in accordance with the contract documents. Scheduling of project work may be confirmed or memorialized by e-mail.

ARTICLE III - CONTRACT TIME - The initial contract period will commence upon award of Contract, and end on June 30, 2026 unless earlier terminated.

ARTICLE IV - CONTRACT PRICE - Owner shall pay Contractor for performance of the work in accordance with the Proposal Form.

ARTICLE V - PAYMENT – The Contractor shall invoice the Owner within 30 days of completion of the work performed or monthly. All material invoices must be submitted with vendors' invoice to Contractor.

ARTICLE VI - TERMINATION FOR DEFAULT - The City of Portsmouth may terminate this Contract with seven (7) days' notice should the Contractor fail to perform work in accord with the Scope of Work and Project Requirements. Failure to maintain any and all licenses necessary to perform the work and/or to maintain insurance coverage is grounds for immediate termination of the Contract.

ARTICLE VII - INDEMNIFICATION OF CITY - Contractor will indemnify City against all suits, claims, judgments, awards, loss, cost or expense (including without limitation attorneys' fees) arising in any way out of the Contractor's negligence or breach of its obligations or warranties under this Contract. Contractor will defend all such actions with counsel satisfactory to City at its own expense, including attorney's fees, and will satisfy any judgment rendered against City in such action.

ARTICLE VIII - PERMITS - The Contractor will secure at its own expense, all permits and consents required by law as necessary to perform the work and will give all notices and pay all fees and otherwise comply with all applicable City, State, and Federal laws, ordinances, rules and regulations.

ARTICLE IX - INSURANCE - The Contractor shall secure and maintain, until acceptance of the work, insurance with limits not less than those described in the Insurance Requirements.

ARTICLE X – NONDISCRIMINATION - Any entity that enters into a contact for goods or services with the City of Portsmouth or any of its boards, agencies and departments and any recipient of city funds shall:

Implement an employment nondiscrimination policy prohibiting discrimination in hiring, discharging, promoting, or demoting, matters of compensation, or any other employment-related decision or benefit on account of actual or perceived race, ethnicity, color, religion, national origin, gender, disability, age, military status, sexual orientation, gender identity, gender expression, or marital or familial status.

Not discriminate in the performance of the contract on account of actual or perceived race, ethnicity, color, religion, national origin, gender, disability, age, military status, sexual orientation, gender identity, gender expression, or marital or familial status.

ARTICLE XI - MISCELLANEOUS -

10.1 Neither Owner nor Contractor shall, without the prior written consent of the other, assign, sublet or delegate, in whole or in part, any of its rights or obligations under any of the Contract Documents; and, specifically not assign any monies due, or to become due, without the prior written consent of Owner.

10.2 Owner and Contractor each binds himself, his partners, successors, assigns and legal representatives, to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents.

10.3 This Contract shall be governed by and construed in accordance with New Hampshire law.

IN WITNESS WHEREOF, the parties hereunto executed this AGREEMENT the day and year first above written.

CITY OF PORTSMOUTH, NH

NAME OF BUSINESS

By: _____

By: _____

Karen S. Conard
Portsmouth City Manager

Printed Name: _____

Date: _____

Title: _____

TECHNICAL SPECIFICATIONS

09 05 00 BASIC LEAD SAFE WORK PRACTICES

09 90 00 PAINTING

09 05 00 BASIC LEAD SAFE WORK PRACTICES

PART 1 GENERAL

1.1 DEFINITIONS

- A. **"Encapsulation"** means resurfacing or covering surfaces with such substances, including paints as are approved as encapsulants, and sealing or caulking with durable materials, to prevent or control the creation of lead exposure hazards. Approved encapsulants under this chapter are:
1. Paints or other substances approved under section 402(a) of Title IV of the Toxic Substances Control Act, 15 U.S.C. section 2601, et seq.;
 2. Paints or other substances approved as encapsulants by public health authorities in any other state, and approved by the City of Portsmouth;
 3. Paints or other substances set forth in rules adopted by the State of New Hampshire pursuant to RSA 130-A:10, XIV.
- B. **"In-place management"** means the use of maintenance or administrative controls, including specialized cleaning and periodic monitoring, to prevent lead base substances from becoming lead exposure hazards.
- C. **"Interim controls"** means a set of measures designed to reduce temporarily human exposure or likely exposure to lead exposure hazards, including regular cleaning, repairs, maintenance, painting, or temporary containment, and the establishment and operation of management and resident education programs. "Interim controls" may include in-place management.
- D. **"Lead hazard reduction"** means a set of measures designed to reduce a lead exposure hazard, including abatement, interim controls, or a combination of them.
- E. **"Lead Safe Work Practices"** means working methods which reduce the likelihood of creating air-borne lead paint dust including but not limited to:
1. enclosing and isolating areas to be scraped or sanded with 6 mil poly sheeting
 2. wetting surfaces before scraping, sanding or blasting,
 3. HEPA vacuuming paint chips and dust created by scraping, sanding or blasting
 4. Wet sweeping and final cleaning of work areas
 5. Proper cleanup and disposal of work areas and poly sheeting

1.2 SCOPE OF WORK

- A. The work includes the furnishing of labor, materials, tools, equipment, services and incidentals necessary to complete all preparation and painting in accordance with the plans and specifications herein. The work described shall be complete in every detail and in accordance with established trade practices notwithstanding whether or not every item or detail necessarily involved is specifically mentioned.
- B. Work procedures, equipment, materials, services must strictly adhere to and meet compliance with applicable local, state and federal regulations, including but not limited to OSHA, HUD, EPA, CDC, DOT, NIOSH, NH RSA 130-A. Where there exists an overlap of these regulations the more stringent one shall apply.
- C. Review the Data supplied in the specifications and plans furnished by the City of Portsmouth. Determine the quantity and quality of work and repairs necessary to meet the required specifications.
- D. Meet with a representative of the City of Portsmouth to review project design and painting specifications, and revise as needed.

- E. These costs, on a lump sum basis, will be based on current painting stabilization and painting methods **using lead safe work practices** and repair costs to make surfaces and areas correct and usable again.
- F. Advise the City and the property occupants with regard to your time frame for any disruptive work activities.
- G. Present a work plan that outlines the specific areas to be prepared for paint and the subsequent repairs required that will include your procedures, your time frame to complete. Where required, provide the City of Portsmouth with your cost estimate to provide additional relevant services necessary for completion of the project. Specify and itemize the work to be provided and the cost.
- H. All specifications are to be performed in accordance with applicable state and federal regulations.
- I. The Contractor shall use the same job supervisor, with proper credentials, throughout this project and will ensure there are no work interruptions.

PART 2 - PRODUCTS
(NOT APPLICABLE)

PART 3 - EXECUTION

3.1 PREPARATION OF EXTERIOR WORK AREA

- A. Safe work practices shall be utilized throughout the entire project. Scaffolding and planking shall be erected and secured in such manner as to preclude damage to the structure and property of the owner. The entire arrangement shall conform to the applicable regulations of OSHA as well as local ordinances.
- B. Drop cloths, barricades or other forms of protection necessary to safeguard the work area and adjacent surfaces shall be provided. Special care shall be taken to protect an occupant's furniture, personal belongings, trees, shrubbery, etc. Accessible freshly painted surfaces shall be legibly posted with an appropriate sign(s).
- C. Paint materials shall be delivered to the job site in manufacturer's original unopened containers bearing full identification. Rejected materials shall be immediately removed from the site.
- D. The City shall not provide storage for materials. Portions of the building used for mixing shall be well ventilated and suitably protected against stains or damage of any nature arising from such operations. The Contractor shall secure closed paint containers in a designated place, kept continually neat and clean. Oily rags and waste shall be removed every night from the building and every other precaution shall be taken to avoid fire.
- E. The work site shall be prepared to prevent the release of paint dust, and contain paint chips and other debris from painting preparation within the work site until it can be safely removed. Practices that minimize the spread of dust, paint chips, soil and debris shall be used during work site preparation.
- F. All dumpster locations shall be approved by the public works department.
- G. All sidewalks and entrance doors in the work area must remain passable and usable at all times.

- H. All vents, heating duct openings, grills, etc. within 5 ft. of where dust creating activities are taking place shall be covered with 6 mil poly and sealed, to prevent contamination into other areas.
- I. The ground or floor surface under all work areas shall be covered with polyethylene sheeting at least 6 mils thick and extend out from the foundation at least 10 feet.
- J. Doors, windows, or other openings on the side of a building where any sanding, removal, or other dust-generating activity is planned, shall be closed and sealed with polyethylene sheeting at least 6 mils thick and secured with waterproof tape.
- K. Whenever liquid or non-liquid waste is produced by any exterior work, the ground around the area shall be fenced in with a temporary barrier fence. Tape labeled "Caution," and stakes may be used for the barrier.
- L. All work areas must be arranged to prevent paint chips and scrapings from travel outside the work area.
- M. All waste shall be disposed of in accordance with the waste disposal section of this specification.

3.2 PREPARATION OF EXTERIOR SURFACES TO BE PAINTED

- A. Safe work practices will be used throughout the paint stabilization component of this project. The following methods may not be used for surface preparation:
 1. power washing
 2. open flame burning
 3. heat guns operating above 1100 degrees Fahrenheit
 4. machine sanding, grinding or abrasive blasting without a high-efficiency particulate air (HEPA) local exhaust control
 5. dry sanding or scraping, except in conjunction with heat guns or within 1.0 ft. of electrical outlets, or when treating defective paint spots totaling no more than 2 sq. ft. in any one room or space, or totaling no more than 20 sq. ft. on exterior surfaces.
 6. Paint stripping in a poorly ventilated space using a volatile stripper that is a hazardous substance
- B. All loose siding and exterior trim shall be re-nailed and /or glued with water-proof glue to provide a secure surface.
- C. All loose, chipped, peeling and otherwise deteriorated finished shall be misted with water and wet scraped, wire brushed or sanded as needed to provide a clean solid surface, free of foreign material, grit, dust, dirt, incrustations, rust, oil or grease ready for priming and finish coat.
- D. Coatings, including but not limited to stains, primer, sealers, and polyurethane coatings, if used, shall only be applied upon approval by the City. Primer shall be Alkyd oil based primer approved by the City. Manufacturer's recommendations for mixing, thinning, applying, type of exposure, surface to be covered, and type of surface wear to which the primer will be subjected shall be explicitly followed.
- E. Prime all bare wood and all new wood. Except where stain is specified as the finish the same product will be applied as the prime coat.
- F. Fill all sill holes, cracks, and other surface imperfections with exterior filler per manufacturer's directions.

- G. Where knots have discolored or blistered the paint, they shall be scraped, sanded and properly primed with a coat of synthetic resin sealer, or 'Bin' brand sealer, then paint.
- H. Remove all deteriorated window glazing putty and re-putty to provide a weather tight surface.
- I. Caulk all window trim, door trim, and other exterior openings with paintable silicon exterior caulking compound to provide a weather- proof surface.
- J. Galvanized metal, especially that which is exposed to the weather, shall first be coated with zinc-chromate, metal primer, or equivalent, as the prime coat.
- K. Wood siding with visible knots shall have 2 coats of Zinsser brand "Kover-Stain" or approved equal applied.

3.3 LEAD BASED PAINT STABILIZATION

- A. General
 - 1. Loose and flaking paint shall be scraped away from surfaces after misting of the surfaces with water;
 - 2. All surfaces shall be vacuumed with a HEPA vacuum until no visible dust or debris remains;
 - 3. All surfaces shall be cleaned using a high phosphate detergent solution and rinsed with clean water;
 - 4. After being allowed to dry, all surfaces shall be HEPA vacuumed again;
 - 5. All surfaces shall be primed with primer; and
 - 6. All surfaces shall be covered with 2 topcoats of paint or other coating that closely matches the surrounding paint color and sheen.
- B. Lead base paint stabilization shall be conducted only when the substrate of the surfaces to be treated are dry, clean, and in good repair, prior to the application of new paint.
- C. The following exterior conditions causing a lead exposure hazard to exist shall be the responsibility of the City to have repaired, when detected during the walk-through inspection and brought to their attention by the Contractor. Repairs shall be done prior to conducting lead base paint stabilization:
 - 1. Damaged or missing flashing on a door or a window;
 - 2. Damaged or missing roof flashing;
 - 3. Siding in contact with soil;
 - 4. Water damaged siding or clapboards;
 - 5. Missing or deteriorated trim on a door or window opening;
 - 6. Missing or broken window panes;
 - 7. Missing, damaged or deteriorated window caulking or glazing; or
 - 8. Any other deterioration or damage to building components that would compromise the effectiveness of the interim control measures.
- D. The following substrate defects causing lead exposure hazards to exist shall be repaired prior to lead base paint stabilization:
 - 1. Dry rotted or rusty structural, siding, window, door, or railing components;
 - 2. Loose siding or trim; or
 - 3. Any other substrate condition that would compromise the effectiveness of the interim control.

- E. The Contractor will note these deficiencies when detected during the walk-through inspection, and provide, separately and as soon as possible, a bid price to the owner. All such deficiencies will be repaired and corrected prior to performing paint stabilization.

3.4 APPLICATION OF FINISH COATINGS

- A. Coatings, including but not limited to stains, primer, sealers, and polyurethane coatings, if used, shall only be applied upon approval by the City. Finish coat paint shall be Sherwin Williams Alkyd oil based SWP. Primer coat shall be Sherwin Williams A100 oil based primer. Finish coat for metal surfaces shall be Sherwin Williams All Surface Enamel. The City will decide the color of the paints used. Manufacturer's recommendations for mixing, thinning, applying, type of exposure, surface to be covered, and type of surface wear to which the paint will be subjected shall be explicitly followed.
- B. The materials shall be applied in such a manner as will insure smooth, even, uniform coats free of dirt, drips, ridges, waves, holidays, drops, runs, brush marks, sags and lags. Any pre-existing deficiencies shall be properly corrected and prepared before painting.
- C. Where the work is executed in contrasting color tones, each color shall be cut to neat, true lines against the adjoining color without overlapping.
- D. Paint shall be applied under dry dust free conditions and shall not be applied when the temperature is below 50 degrees F. All primer and intermediate coats of paint shall be unscarred and completely integral as well as completely dry at the time of the application of each succeeding coat.
- E. Where indicated, heating and exhaust registers and grilles, including their frames and baffles, and other metal surfaces subject to high temperatures, shall be painted with heat resistant paint, unless these items have a factory finish.
- F. After the priming coat or stain has been applied, all visible nail holes, cracks, and other depressions shall be filled flush with putty and then sanded smooth. Putty shall dry before subsequent painting.
- G. Colors, textures, sheens, and types of finishes shall be approved by the City prior to application of finish coat.
- H. Paint application shall consist of two or more coats on old work until even and uniform coverage is achieved. On new work, one or more primer coats and two or more finish coats shall be applied until excellent coverage is achieved. Where woodwork will not accept enamel due to improper previous painting, the surface shall be treated with primer/sealer.
- I. All edges of door shall be provided with the finish specified for the faces, except that the top and bottom edges shall have 2 coats on exterior doors.
- J. Where the opposite faces of any door differ in color or finish, the edges readily visible when the door is opened shall match the finish in the room from which they are seen. Doors with brush finish shall be applied with vertical strokes. Vertical casing and molding shall also be finished with vertical strokes.
- K. Surface finishes may only be applied by brush or roller in accordance with manufacturer's recommendations for the product used.
- L. Previously painted hardware to remain shall be repainted.

3.5 CLEAN UP

- A. Safe work practices shall be utilized in the daily, preliminary and final cleanup.
- B. At the end of each work day, the work area must be cleaned of all debris. All waste materials generated during this daily clean-up shall be disposed of.
- C. Upon completion of the scraping and prep work, a preliminary clean-up shall be performed by the contractor. This clean-up includes removal of any contaminated material, equipment or debris including polyethylene sheeting from the work area. The polyethylene sheeting shall first be sprayed or misted with water for dust control, the resulting debris removed, then the sheeting shall be folded in upon itself.
- D. Small Debris: Prior to picking up or collecting small debris, the surfaces of this debris will be sprayed with a fine mist of water. The debris will be picked up, collected and placed into plastic bag, at least six-mils thick. The bags shall not be overloaded, shall be securely sealed, and shall be stored in the designated area until disposal. Dry sweeping is not permitted in the work area; wet sweeping will require approval by the City of Portsmouth.
- E. Sheeting: Removal of surfaces six-mil polyethylene sheeting shall begin from upper levels. Removal of ground polyethylene sheeting shall begin at the corners and folded into the middle to contain the dust or residue. All collected polyethylene sheeting shall be placed in six-mil polyethylene bags for proper disposal as described in this specification.
- F. HEPA Vacuuming: Once the six-mil polyethylene sheeting is removed from the work area, cleaning shall begin with a thorough HEPA vacuuming of all surfaces, starting at the eaves, proceeding down the walls and including window, door, and door trim.
- G. Hygiene, Cleaning Equipment and Supplies: Special attention shall be given to personal hygiene and the cleaning of supplies and/or equipment. All mop heads, sponges and rags shall be replaced or changed daily, at a minimum. Rags, mop heads or sponges may be reused if contractor has them cleaned via a washing system specially equipped with HEPA filtration.
- H. Upon completion of the work of this section, all tools, waste materials, paint containers, and debris attributable to work shall be cleaned up and removed from the job site.
- I. Paint on window glass shall be scrapped off with razor blades, and the window cleaned. Any damaged areas shall be repaired or cleaned up to the satisfaction of the City of Portsmouth.

3.6 INSPECTIONS

- A. Work performed on this project shall require three inspections by the City:
 1. Completion of surface preparation and prime coat application
 2. Completion of final application
 3. Completion of work area clean up.

3.7 DISPOSAL OF WASTE MATERIAL

- A. All materials, whether hazardous or non-hazardous, shall be disposed in accordance with all laws and the provisions of this section and any or all other applicable federal, state, county or local regulations and guidelines. It shall be the sole responsibility of the contractor to assure compliance with all laws and regulations relating to this disposal
- B. The requirements of Resource Conservation and Recovery Act (RCRA) shall be complied with as well as applicable State solid waste plan requirements. During work, the Contractor shall not leave debris on the property, incinerate debris, dump waste by the road or in an unauthorized dumpster.

- C. Liquid Wastes: The contractor shall contain and properly dispose of all liquid waste, including lead-contaminated wash water.
- D. Solvents: The contractor shall place solvent residues and residues from strippers in drums made out of materials that cannot be dissolved or corroded by chemicals. Solvents, caustic and acid waste must be segregated and not stored in the same containers.
- E. All paint chips and paint chip debris will be disposed of by the Contractor as HAZARDOUS WASTE in accordance with this section. All costs associated with the disposal of these materials as hazardous waste shall be included in the Contractor's Base Bid Price.
- F. Contractor shall bag and seal lead dust contaminated HEPA vacuum bags and filters in double 6-mil thick plastic bags.
- G. The Contractor shall place all non-hazardous contaminated materials in double six-mil polyethylene bags that are air-tight and puncture resistant.
- H. All costs associated with disposal of all of the above materials as non-hazardous and hazardous waste shall be included in the Contractor's Base Bid Price.

END OF SECTION

SECTION 09 90 00 PAINTING

PART 1 - GENERAL

1.01 Description:

- A. **Section Includes:** All labor, materials, tools and other equipment, services and supervision required to complete all exterior and interior painting and decorating work as indicated on Finish Schedules and to the full extent of project drawings and specifications.
- B. Work under this agreement shall include but not be limited to:
1. Surface preparation of substrates as required for acceptance of painting, including cleaning, small crack repair, patching, caulking, and making good surfaces and areas to the limits defined under *MPI* preparation requirements.
 2. Surface preparation and prime painting surfaces for wall coverings prior to installation in accordance with *MPI* and wall covering manufacturer's requirements.
 3. Specific pre-treatments noted herein or specified in the *MPI* Architectural Painting Specification Manual.
 4. Priming (except where pre-primed with an approved primer under other Sections of work) and painting of structural steel, miscellaneous metal, ornamental metal and primed steel equipment.
 5. Priming and back-priming of wood materials as noted herein or specified in the *MPI* Architectural Painting Specification Manual.
 6. Painting of all semi-concealed areas (e.g. inside of light troughs and valances, behind grilles, and projecting edges above and below sight lines).
 7. Painting of roof vent flashings in accordance with the requirements of Section 07600.
 8. Painting and finishing of all exposed to view elevator equipment and components (i.e. doors and door frames) unless pre-finished.
 9. Painting of exposed to view mechanical (heating, ventilating and plumbing) services and equipment, e.g., ducts, sprinkler piping, etc., and electrical work to extent noted on Finish Schedule unless pre-finished.
 10. Re-painting of existing surfaces and finishes when adjacent to new painting work where applicable including surface preparation, prime and finish coats in accordance with *MPI* Repainting requirements.
 11. Provision of safe and adequate ventilation as required over and above temporary ventilation supplied by others, where toxic and/or volatile / flammable materials are being used.
- C. Refer to individual project drawings and schedules (e.g., Finish Schedule) for type, location and extent of finishes required, and include all touch-ups and field painting necessary to complete work shown, scheduled, or specified.

1.02 References:

- A. The latest edition of the following reference standards shall govern all painting work:
 - 1) Architectural Painting Specification Manual by the Master Painters Institute (MPI), including Identifiers, Evaluation, Systems, Preparation and Approved Product List. (hereafter referred to as the **MPI** Painting Manual) Test Method for Measuring Total Volatile Organic Compound Content of Consumer Products, Method 24 (for Surface Coatings) of the Environmental Protection Agency (EPA).

1.03 Quality Assurance:

- A. This Contractor shall have a minimum of five (5) years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work. When requested, Contractor shall provide a list of the last three comparable jobs including, name and location, specifying authority / project manager, start / completion dates and value of the painting work.
- B. Only qualified journeypersons, as defined by local jurisdiction shall be engaged in painting and decorating work. Apprentices may be employed provided they work under the direct supervision of a qualified journeyperson in accordance with trade regulations.
- C. All materials, preparation and workmanship shall conform to requirements of the latest edition of the Architectural Painting Specification Manual by the Master Painters Institute (**MPI**) (hereafter referred to as the **MPI** Painting Manual)
- D. All paint manufacturers and products used shall be as listed under the Approved Product List section of the **MPI** Painting Manual.
- E. All painting and decorating work shall be inspected by a Paint Inspection Agency (inspector) acceptable to the specifying authority. The painting contractor shall notify the Paint Inspection Agency a minimum of one week prior to commencement of work and provide a copy of the project painting specification, plans and elevation drawings (including pertinent details) as well as a Finish Schedule.
- F. Where “special” painting, coating or decorating system applications (i.e. non-**MPI** listed products or systems) are to be used, the paint or coating manufacturer shall provide as part of this work, certification of all surfaces and conditions for specific paint or coating system application as well as on site supervision, inspection and approval of their paint or coating system application as required at no additional cost to the Owner.
- G. The painting contractor shall receive written confirmation of the specific surface preparation procedures and primers used for all fabricated steel items from the fabricator / supplier to ascertain appropriate and manufacturer compatible finish coat materials to be used before painting any such work.

1.04 Regulatory Requirements:

- A. Conform to the latest edition of Industrial Health and Safety Regulations issued by applicable authorities having jurisdiction in regard to site safety (ladders, scaffolding, ventilation, etc.).
- B. Conform to requirements of local authorities having jurisdiction in regard to the storage, mixing, application and disposal of all paint and related waste materials. Refer to Waste Management and Disposal.
- C. Fully cooperate at all times with the requirements of the Paint Inspection Agency in the performance of their duties, including providing access and assistance as required to complete inspection work.

1.05 Samples and Mock-Ups:

- A. When requested by the Owner, provide duplicate minimum 300 mm (12") square samples of surfaces or acceptable facsimiles requested painted with specified paint or coating in colors, gloss / sheen and textures required to **MPI** Painting Manual standards for review and approval. When approved, samples shall become acceptable standard of quality for appropriate on-site surface with one of each sample retained on-site.
- B. When requested by the Consultant or Paint Inspection Agency, prepare and paint designated surface, area, room or item (in each color scheme) to requirements specified herein, with specified paint or coating showing selected colors, gloss / sheen, textures and workmanship to **MPI** Painting Manual standards for review and approval. When approved, surface, area, room and/or items shall become acceptable standard of finish quality and workmanship for similar on-site work.

1.06 Submittals:

- A. All submittals shall be in accordance with the requirements of Section 01300 - Submittals.
- B. Submit consent of surety with Bid Submission as proof of ability to supply a 100% two (2) year Maintenance Bond.
- C. If requested, submit a list of all painting materials to the Consultant and the Paint Inspection Agency for review prior to ordering materials. If requested, provide an invoice list of all paint materials ordered for project work to Paint Inspection Agency indicating manufacturer, types and quantities for verification and compliance with specification and design requirements.
- D. Submit two sets of Material Safety Data Sheets (MSDS) prior to commencement of work for review and for posting at job site as required.
- E. If requested, submit work schedule for various stages of work when painting occupied areas for the Consultant's review and Owner's approval.
- F. At project completion provide an itemized list complete with manufacturer,

paint type and color coding for all colors used for Owner's later use in maintenance.

- G. At each project completion provide properly packaged maintenance materials as noted herein and obtain a signed receipt.

1.07 Product Delivery, Storage and Handling:

- A. Deliver all painting materials in sealed, original labeled containers bearing manufacturer's name, brand name, type of paint or coating and color designation, standard compliance, materials content as well as mixing and/or reducing and application requirements.
- B. Store all paint materials in original labeled containers in a secure (lockable), dry, heated and well ventilated single designated area meeting the minimum requirements of both paint manufacturer and authorities having jurisdiction and at a minimum ambient temperature of 45° F (7° C). Only material used on this project to be stored on site.
- C. Where toxic and/or volatile / explosive / flammable materials are being used, provide adequate fireproof storage lockers and take all necessary precautions and post adequate warnings (e.g. no smoking) as required.
- D. Take all necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (paints, solvents, drop clothes, etc.) shall be stored in suitable closed and rated containers and removed from the site on a daily basis.
- E. Comply with requirements of authorities having jurisdiction, in regard to the use, handling, storage and disposal of hazardous materials.

1.08 Scheduling:

- A. Schedule painting operations to prevent disruption of and by other trades.
- B. Schedule painting operations in occupied facilities to prevent disruption of occupants in and about the building. Painting shall be carried out in accordance with Owner's operating requirements. Schedule work such that painted surfaces will have dried before occupants are affected. Obtain written authorization from Consultant / Owner for changes in work schedule.

1.09 Project / Site Requirements:

- A. UNLESS specifically pre-approved by the specifying body, Paint Inspection Agency and the applied product manufacturer, perform no painting or decorating work when the ambient air and substrate temperatures are below 50° F (10° C) for both interior and exterior work.
- B. Perform no exterior painting work unless environmental conditions are within MPI and paint manufacturer's requirements or until adequate weather protection is provided. Where required, suitable weatherproof covering and sufficient heating facilities shall be in place to maintain minimum ambient air and substrate temperatures for 24 hours before, during and after paint

application.

- C. Perform no interior painting or decorating work unless adequate continuous ventilation and sufficient heating facilities are in place to maintain ambient air and substrate temperatures above minimum requirements for 24 hours before, during and after paint application. Provide supplemental ventilating and heating equipment if ventilation and heating from existing system is inadequate to meet minimum requirements.
- D. Perform no painting or decorating work when the relative humidity is above 85% or when the dew point is less than 5° F (3° C) variance between the air / surface temperature.
- E. Perform no painting or decorating work when the maximum moisture content of the substrate exceeds:
 - 1) 15% for wood.
 - 2) 12 % for plaster and gypsum board.
- F. Conduct all moisture tests using a properly calibrated electronic Moisture Meter, except test concrete floors for moisture using a simple cover patch test.
- G. Test concrete, masonry and plaster surfaces for alkalinity as required.
 - 1) Concrete and masonry surfaces must be installed at least 28 days prior to painting and decorating work and must be visually dry on both sides.
- H. Apply paint only to dry, clean, properly cured and adequately prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not affect the quality of finished surfaces.
- I. Perform no painting or decorating work unless a minimum lighting level of 323 Lux (30 foot candles) is provided on surfaces to be painted or decorated. Adequate lighting facilities shall be provided by the General Contractor.
- A. Maintenance Materials: At each project completion provide 1 gallon of each type and color of paint from same production run (batch mix) used in unopened cans properly labeled and identified for Owner's later use in maintenance. Store where directed.

1.02 **Waste Management and Disposal:**

- A. Paint, stain and wood preservative finishes and related materials (thinners, solvents, etc.) are regarded as hazardous products and are subject to regulations for disposal. Obtain information on these controls from applicable [Provincial] [State] [Local] government departments having jurisdiction.
- B. All waste materials shall be separated and recycled. Where paint recycling is

available, collect waste paint by type and provide for delivery to recycling or collection facility. Materials that cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner.

- C. Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
- D. To reduce the amount of contaminants entering waterways, sanitary/storm drain systems or into the ground the following procedures shall be strictly adhered to:
 - 1) Retain cleaning water for water-based materials to allow sediments to be filtered out. In no case shall equipment be cleaned using free draining water.
 - 2) Retain cleaners, thinners, solvents and excess paint and place in designated containers and ensure proper disposal.
 - 3) Return solvent and oil soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
 - 4) Dispose of contaminants in an approved legal manner in accordance with hazardous waste regulations.
 - 5) Empty paint cans are to be dry prior to disposal or recycling (where available).
 - 6) Close and seal tightly partly used cans of materials including sealant and adhesive containers and store protected in well ventilated fire-safe area at moderate temperature.
- E. Set aside and protect surplus and uncontaminated finish materials not required by the Owner and deliver or arrange collection for verifiable re-use or re-manufacturing.

1.03 Guarantee:

- A. Furnish a 100% two (2) year Maintenance Bond - in accordance with **MPI** Painting Manual requirements. The Maintenance Bond shall warrant that all painting work has been performed in accordance with **MPI** Painting Manual requirements.

PART 2 - PRODUCTS

2.1 Materials:

- A. Only materials (primers, paints, coatings, varnishes, stains, lacquers, fillers, etc.) listed in the latest edition of the **MPI** Approved Product List (APL) are acceptable for use on this project. All such material shall be from a single manufacturer for each system used.
- B. Other materials such as linseed oil, shellac, thinners, solvents, etc. shall be the highest quality product of an **MPI** listed manufacturer and shall be compatible with paint materials being used as required.

- C. All materials used shall be lead and mercury free and shall have low VOC content where possible.
- D. Where required, use only materials having a minimum *MPI* “Environmentally Friendly” [E1] [E2] [E3] rating based on VOC (EPA Method 24) content levels.
- E. Where indoor air quality (odour) is an issue, use only *MPI* listed materials having a minimum E2 rating.
- F. All paint materials shall have good flowing and brushing properties and shall dry or cure free of blemishes, sags, air entrapment, etc. Refer to 3.7, Field Quality Control / Standard of Acceptance requirements.
- G. Where required, paints and coatings shall meet flame spread and smoke developed ratings designated by local Code requirements and/or authorities having jurisdiction.
- H. Glass Reflective Beads (for pavement marking): of type suitable for application to a wet paint surface for light reflectance. Apply beads at a minimum rate of 0.5 kg/l (5 lbs/g) to an *MPI* listed white and/or yellow latex or alkyd zone / traffic marking paint.
- I. Slip Resistant Additive (SRA): rubber aggregate, clean/washed silica sand or ground walnut chips (interior dry areas only) for use with or as a component part of paint (usually floor / porch / stair enamel) on horizontal surfaces as required to provide slip resistance. Where site applied, material to either mixed into paint (and mixed constantly to keep material in suspension) or broadcast into first or prime coat as required.

2.2 Equipment:

- A. Painting and Decorating Equipment: to best trade standards for type of product and application.
- B. Spray Painting Equipment: of ample capacity, suited to the type and consistency of paint or coating being applied and kept clean and in good working order at all times.

2.3 Mixing and Tinting:

- A. Unless otherwise specified herein or pre-approved, all paint shall be ready-mixed and pre-tinted. Re-mix all paint in containers prior to and during application to ensure break-up of lumps, complete dispersion of settled pigment, and color and gloss uniformity.
- B. Paste, powder or catalyzed paint mixes shall be mixed in strict accordance with manufacturer's written instructions.
- C. Where thinner is used, addition shall not exceed paint manufacturer's

recommendations. Do not use kerosene or any such organic solvents to thin water-based paints.

- D. If required, thin paint for spraying according in strict accordance with paint manufacturer's instructions. If directions are not on container, obtain instructions in writing from manufacturer and provide copy of instructions to Consultant.

2.4 Finish and Colors:

- A. Unless otherwise specified herein, all painting work shall be in accordance with *MPI* [Custom] [Premium] Grade finish requirements.
- B. Colors shall be as selected by the Owner from a manufacturer's full range of colors. Refer to Finish Schedule for identification and location of colors on each project.
- C. Where required by authorities having jurisdiction, exit and vestibule doors shall be painted a contrasting color to walls and a different color than any other door in the same area.
- D. Access doors, prime coated butts and other prime painted hardware (e.g. door closers), registers, radiators and covers, exposed piping and electrical panels shall be painted to match adjacent surfaces (i.e. same color, texture and sheen), unless otherwise noted or where pre-finished.
- E. Plywood service panels (e.g. electrical, telephone and cable vision panels) including edges shall be back-primed and painted to match painted wall mounted on.
- F. The inside of light valances shall be painted gloss white.
- G. The inside of all duct work behind louvers, grills and diffusers for a minimum of 460 mm (18") or beyond sight line, whichever is greater, shall be painted using flat black (non-reflecting) paint.
- H. Gloss level ratings of all painted surfaces shall be as noted on Finish Schedule for each project.

PART 3 - EXECUTION

3.1 Condition of Surfaces:

- A. Prior to commencement of work of this section, thoroughly examine (and test as required) all conditions and surfaces scheduled to be painted and report in writing to the Contractor and Consultant any conditions or surfaces that will adversely affect work of this section.
- B. No painting work shall commence until all such adverse conditions and defects have been corrected and surfaces and conditions are acceptable to the Painting Subcontractor and Inspection Agency.

- C. Commencement of work shall not be held to imply acceptance of surfaces except as qualified herein. Such surfaces as concrete, masonry, structural steel and miscellaneous metal, wood, gypsum board and plaster, shall not be the responsibility of the Painting Subcontractor.
- D. The Painting Contractor shall not be responsible for the condition of the substrate or for correcting defects and deficiencies in the substrate which may adversely affect the painting work except for minimal work normally performed by the Painting Subcontractor and as indicated herein. It shall always, however, be the responsibility of the Painting Subcontractor to see that surfaces are properly prepared before any paint or coating is applied.

3.2 Preparation of Surfaces:

- A. Prepare all surfaces in accordance with **MPI** requirements. Refer to the **MPI** Painting Manual in regard to specific requirements for the following:
 - 1) environmental conditions.
 - 2) pH testing.
 - 3) acid etching.
 - 4) rust stain removal.
 - 5) asphalt surfaces.
 - 6) vertical and horizontal concrete surfaces.
 - 7) clay and concrete masonry units.
 - 8) structural steel and miscellaneous metals.
 - 9) steel exposed to high heat.
 - 10) galvanized and zinc coated metal.
 - 11) aluminum and copper surfaces.
 - 12) glue laminated beams and columns.
 - 13) dimension and dressed lumber.
 - 14) wood doors.
 - 15) wood paneling and casework.
 - 16) wood decks, floors, stairs and steps.
 - 17) wood shingles and shakes.
 - 18) stucco, plaster and gypsum board.
 - 19) acoustical panels and tiles.
 - 20) canvas and cotton coverings.
 - 21) bituminous coated surfaces.
- B. Sand, clean, dry, etch, neutralize and/or test all surfaces under adequate illumination, ventilation and temperature requirements.
- C. Remove and securely store all miscellaneous hardware and surface fittings / fastenings (e.g. electrical plates, mechanical louvers, door and window hardware (e.g. hinges, knobs, locks, trim, frame stops), removable rating / hazard / instruction labels, washroom accessories, light fixture trim, etc. from wall and ceiling surfaces, doors and frames, prior to painting. Carefully clean and replace all such items upon completion of painting work in each area. Do not use solvent or reactive cleaning agents on items that will mar or remove finishes (e.g. lacquer finishes). Doors shall be removed before painting to paint bottom and top edges and then re-hung.
- D. Protect all adjacent interior surfaces and areas, including rating and

instruction labels on doors, frames, equipment, piping, etc., from painting operations and damage with drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection.

- E. Substrate defects shall be made good and sanded by others ready for painting particularly after the first coat of paint. Start of finish painting of defective surfaces (e.g. gypsum board) shall indicate acceptance of substrate and any costs of making good defects shall be borne by the painter including re-painting of entire defective surface (no touch-up painting).
- F. Confirm preparation and primer used with fabricator of steel items. Refer to Quality Assurance.

3.3 Application:

- A. Do not paint unless substrates are acceptable and/or until all environmental conditions (heating, ventilation, lighting and completion of other subtrade work) are acceptable for applications of products.
- B. Apply paint or stain in accordance with *MPI* Painting Manual [Premium] [Custom] Grade finish requirements.
- C. Apply paint and decorating material in a workmanlike manner using skilled and trade qualified applicators as noted under Quality Assurance.
- D. Apply paint and coatings within an appropriate time frame after cleaning when environmental conditions encourage flash-rusting, rusting, contamination or the manufacturer's paint specifications require earlier applications.
- E. Painting coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations.
- F. Tint each coat of paint progressively lighter to enable confirmation of number of coats.
- G. Unless otherwise approved by the painting inspection agency, apply a minimum of four coats of paint where deep or bright colors are used to achieve satisfactory results.
- H. Sand and dust between each coat to provide an anchor for next coat and to remove defects visible from a distance up to 1000 mm (39").
- I. Do not apply finishes on surfaces that are not sufficiently dry. Unless manufacturer's directions state otherwise, each coat shall be sufficiently dry and hard before a following coat is applied.
- J. Prime coat of stain or varnish finishes may be reduced in accordance with

manufacturer's directions.

- K. Paint finish shall continue through behind all wall-mounted items (e.g. chalk and tack boards).

3.4 **Exterior Finish / Coating Systems:**

Paint exterior surfaces in accordance with the following *MPI* Painting Manual requirements:

A. **Concrete Vertical Surfaces:** (including horizontal soffits)

- 1) EXT 3.1A: Latex finish over alkali resistant primer.
- 2) EXT 3.1B: Latex finish over latex [insert texture type] aggregate.
- 3) EXT 3.1C: Water based light industrial coating.
- 4) EXT 3.1D: Epoxy (over epoxy) EXT 3.1E Epoxy-modified latex finish.
- 5) EXT 3.1F: Elastomeric coating. EXT 3.1G Water repellent (non-paintable) finish
- 6) EXT 3.1H: Water repellent (paintable) finish.
- 7) EXT 3.1J: Concrete stain finish.
- 8) EXT 3.1K: Latex finish.
- 9) EXT 3.1L: High-build latex finish.
- 10) EXT 3.1M: Polyurethane, pigmented finish (over epoxy).
- 11) EXT 3.1N: Latex [insert texture type] aggregate finish.

B. **Concrete Horizontal Surfaces:** (decks, stairs, driveways, parking and court areas, etc.)

- 1) EXT 3.2A Latex floor paint [gloss] [low gloss] finish.
- 2) EXT 3.2B Latex deck coating.
- 3) EXT 3.2C Epoxy deck coating, slip resistant.
- 4) EXT 3.2D Alkyd floor enamel finish.
- 5) EXT 3.2E Latex zone / traffic marking finish. [for parking lines, etc]
- 6) EXT 3.2F Alkyd zone / traffic marking finish. [for parking lines, etc]
- 7) EXT 3.2G Sealer, clear finish.
- 8) EXT 3.2H Sealer, clear, water based finish.
- 9) EXT 3.2J Concrete stain finish.

C. **Cementitious Composition Board Surfaces:** (vertical surfaces, horizontal soffits)

- 1) EXT 3.3A Latex finish.
- 2) EXT 3.3B Alkyd finish.
- 3) EXT 3.3C Water based light industrial coating.
- 4) EXT 3.3D Epoxy-modified latex finish.

- 5) EXT 3.3E Epoxy finish.
- 6) EXT 3.3F Polyurethane, pigmented finish (over epoxy).
- 7) EXT 3.3G Latex [insert texture type] aggregate finish.
- 8) EXT 3.3H High-build latex finish.
- 9) EXT 3.3J Latex finish (over alkali resistant primer).

D. Concrete Masonry Units: (smooth and split face block and brick).

- 1) EXT 4.2A Latex finish (over latex block filler).
- 2) EXT 4.2B Latex [insert texture type] aggregate finish.
- 3) EXT 4.2C Water based light industrial coating. [chemical resistance]
- 4) EXT 4.2D Elastomeric coating.
- 5) EXT 4.2E Epoxy finish.
- 6) EXT 4.2G Polyurethane, pigmented finish (over high build epoxy).
- 7) EXT 4.2H Water repellent (non-paintable) finish. [not for use on light weight block]
- 8) EXT 4.2J Water repellent (paintable) finish. [not for use on light weight block]
- 9) EXT 4.2K High-build latex finish.
- 10) EXT 4.2L Latex finish (over alkali resistant primer).

E. Structural Steel and Metal Fabrications:

- 11) EXT 5.1A Quick dry enamel finish.
- 12) EXT 5.1B Water based light industrial coating (over inorganic zinc primer).
- 13) EXT 5.1C Water based light industrial coating (over alkyd primer).
- 14) EXT 5.1D Alkyd finish (over alkyd primer).
- 15) EXT 5.1F Epoxy (over H.B. epoxy) finish.
- 16) EXT 5.1G Polyurethane, pigmented finish (over epoxy zinc rich primer and high build epoxy).
- 17) EXT 5.1H Polyurethane, pigmented finish (over epoxy).
- 18) EXT 5.1J Polyurethane, pigmented finish (over high build epoxy).
- 19) EXT 5.1K Aluminum paint finish.
- 20) EXT 5.1L Polyurethane, pigmented finish (over inorganic zinc primer and high build epoxy).
- 21) EXT 5.1M Water based light industrial coating (over rust inhibitive primer).
- 22) EXT 5.1N Water based light industrial coating (over epoxy primer).
- 23) EXT 5.1P Polyurethane, pigmented finish (over epoxy zinc rich primer).
- 24) EXT 5.1Q Alkyd finish (over surface tolerant primer).

- 25) EXT 5.1R Water based light industrial coating (over H. B. epoxy).
- 26) EXT 5.1S Epoxy (over self-priming epoxy).
- 27) EXT 5.1T Polyurethane, pigmented finish (over H.B. self-priming epoxy).
- 28) EXT 5.1V Epoxy deck coating finish (over epoxy primer and epoxy high build)
- 29) EXT 5.1X Epoxy finish (with SRA) (over H.B. self-priming epoxy).

F. **Steel – High Heat:** (heat exchangers, pipes, flues, stacks, etc., with temperature range

- 1) EXT 5.2A Heat resistant enamel finish, maximum 400° F (205° C)
- 2) EXT 5.2B Heat resistant enamel, aluminum finish, maximum 800° F (427° C).
- 3) EXT 5.2C Inorganic zinc rich coating, maximum 750° F (400° C).
- 4) EXT 5.2D High heat resistant coating, maximum 1100° F (593° C).

G. **Galvanized Metal:** (not chromate passivated)

For high contact / high traffic areas (doors, frames, railings, misc. steel, pipes, etc.)

For low contact / low traffic areas (overhead decking, ducts, gutters, flashing, etc.)

- 1) EXT 5.3A Latex finish.
- 2) EXT 5.3B Alkyd finish.
- 3) EXT 5.3C Epoxy finish. [for use on high contact / high traffic areas]
- 4) EXT 5.3D Polyurethane, pigmented finish (over vinyl wash and epoxy primer). [for use on high contact / high traffic areas]
- 5) EXT 5.3E Bituminous finish. [for use on low contact / low traffic areas, e.g. unexposed galvanized metal next to concrete, masonry, etc.]
- 6) EXT 5.3F Aluminum paint finish. [for use on low contact / low traffic areas only]
- 7) EXT 5.3G Water based light industrial coating. [for moderate chemical resistance]
- 8) EXT 5.3H Latex finish (over water based primer). [for low contact / low traffic areas -do not use flat finish on doors]
- 9) EXT 5.3J Water based light industrial coating (over water based primer). [for moderate chemical resistance]
- 10) EXT 5.3K Water based light industrial coating (over epoxy).
- 11) EXT 5.3L Polyurethane, pigmented finish (over epoxy primer) [for use on high contact / high traffic areas]

H. **Aluminum:** (sash, sills and frames, flashing, posts and railings, downpipes, etc.)

- 1) EXT 5.4A Alkyd finish (over vinyl wash primer and quick dry primer).
- 2) EXT 5.4B Polyurethane, pigmented finish (over epoxy).
- 3) EXT 5.4C Aluminum paint finish.
- 4) EXT 5.4D Bituminous finish. [for aluminum next to concrete, masonry, etc.]
- 5) EXT 5.4E Epoxy finish (over vinyl wash primer).
- 6) EXT 5.4F Alkyd finish (over quick dry metal primer).
- 7) EXT 5.4G Water based light industrial coating (over quick dry metal primer).
- 8) EXT 5.4H Latex finish (over quick dry metal primer).

I. Glue Laminated Beams and Columns:

- 1) EXT 6.1A Latex finish (over alkyd/oil primer).
- 2) EXT 6.1B Alkyd finish (over alkyd/oil primer).
- 3) EXT 6.1C Solid color stain finish (over alkyd/oil primer).
- 4) EXT 6.1D Varnish [gloss] [semi-gloss] finish (over stain).
- 5) EXT 6.1E Polyurethane, clear, 2 component finish (over stain).
- 6) EXT 6.1F Fire retardant, pigmented coating.
- 7) EXT 6.1G Fire retardant penetrating wood preservative, clear coating.
- 8) EXT 6.1H Polyurethane, clear, 2 component finish.
- 9) EXT 6.1J Polyurethane, pigmented finish.
- 10) EXT 6.1K Varnish [gloss] [semi-gloss] finish.
- 11) EXT 6.1L Latex finish (over latex primer).
- 12) EXT 6.1M Varnish, water based .

J. Dimension Lumber: (columns, beams, exposed joists, underside of decking, siding, fencing, etc.)

- 1) EXT 6.2A Latex finish (over alkyd/oil primer).
- 2) EXT 6.2B Solid color, water based stain finish (over alkyd/oil primer).
- 3) EXT 6.2C Alkyd finish (over alkyd/oil primer).
- 4) EXT 6.2D Solid color stain finish (over alkyd/oil primer).
- 5) EXT 6.2E Varnish [gloss] [semi-gloss] finish (over stain).
- 6) EXT 6.2F Fire retardant, pigmented coating.
- 7) EXT 6.2G Fire retardant penetrating wood preservative, clear coating.
- 8) EXT 6.2H Polyurethane, clear, 2 component finish.
- 9) EXT 6.2J Polyurethane, pigmented finish.
- 10) EXT 6.2K Varnish [gloss] [semi-gloss] finish.
- 11) EXT 6.2L Semi-transparent stain finish.

- 12) EXT 6.2M Latex finish (over latex primer).
- 13) EXT 6.2N Varnish, water based finish.
- 14) EXT 6.2P Stain, Semi-Transparent, water based.

K. **Dressed Lumber:** (doors, door and window frames, casings, battens, smooth facias, etc.)

- 1) EXT 6.3A Latex finish (over alkyd/oil primer). [no flat finish on doors]
- 2) EXT 6.3B Alkyd finish (over alkyd/oil primer). [no flat finish on doors]
- 3) EXT 6.3C Solid color stain finish (over alkyd/oil primer).
- 4) EXT 6.3D Semi-transparent stain finish. [do not use on doors]
- 5) EXT 6.3E Varnish [gloss] [semi-gloss] finish (over stain).
- 6) EXT 6.3F Varnish [gloss] [semi-gloss] finish.
- 7) EXT 6.3G Polyurethane, clear, 2 component finish.
- 8) EXT 6.3H Polyurethane, pigmented finish.
- 9) EXT 6.3J Water based light industrial [gloss] [semi-gloss] coating.
- 10) EXT 6.3K Solid color stain, water based finish.
- 11) EXT 6.3L Latex finish (over latex primer). [do not use flat finish on doors]
- 12) EXT 6.2M Varnish, water based finish.
- 13) EXT 6.2N Stain, semi-transparent, water based.

L. **Wood Paneling:** (plywood siding, fascias, soffits, etc.)

- 1) EXT 6.4A Solid color stain, water based finish (over alkyd/oil primer).
- 2) EXT 6.4B Alkyd finish (over alkyd/oil primer).
- 3) EXT 6.4C Solid color stain finish (over alkyd/oil primer).
- 4) EXT 6.4D Semi-transparent stain finish.
- 5) EXT 6.4E Fire retardant, pigmented coating.
- 6) EXT 6.4F Fire retardant penetrating wood preservative, clear coating.
- 7) EXT 6.4G Latex finish (over alkyd primer).
- 8) EXT 6.4H Varnish [gloss] [semi-gloss] finish.
- 9) EXT 6.4J Varnish [gloss] [semi-gloss] finish (over stain).
- 10) EXT 6.4K Latex finish (over latex primer).
- 11) EXT 6.2L Stain, semi-transparent, water based.

M. **Wood Decks and Stairs / Steps:** (using spaced lumber) – *(SRA Optional for all Systems)*

- 1) EXT 6.5A Latex porch and floor finish [with SRA] (over alkyd

- primer).
- 2) EXT 6.5B Alkyd floor enamel [with SRA].
- 3) EXT 6.5C Alkyd floor enamel finish [with SRA] (over wood preservative).
- 4) EXT 6.5D Deck stain (over wood preservative).
- 5) EXT 6.5E Latex porch and floor finish [with SRA] (over latex primer).
- 6) EXT 6.5F Deck stain finish.
- 7) EXT 6.5G Latex deck coating. [for plywood decks]

N. **Wood Shingles and Shakes:** (excluding roofs)

- 1) EXT 6.6A Latex finish (over alkyd/oil primer).
- 2) EXT 6.6B Alkyd finish (over alkyd/oil primer).
- 3) EXT 6.6C Solid color stain finish (over alkyd/oil primer).
- 4) EXT 6.6D Solid color stain, water based finish (over alkyd/oil primer).
- 5) EXT 6.6E Latex finish (over latex primer).
- 6) EXT 6.6F Semi-transparent stain finish.

O. **Fiberglass:** (panels, trims, fabrications, etc.)

- 1) EXT 6.7A Latex finish.
- 2) EXT 6.7B Alkyd finish.
- 3) EXT 6.7C Water based light industrial coating.
- 4) EXT 6.7D Polyurethane, pigmented finish (over epoxy).
- 5) EXT 6.7E Epoxy-modified latex finish..
- 6) EXT 6.7F Epoxy finish.

P. **Plastic:** (vinyl siding and windows including related trims, ABS / PVA / PVC materials)

- 1) EXT 6.8A Latex finish.
- 2) EXT 6.8B Alkyd finish.
- 3) EXT 6.8C Water based light industrial coating.

3.5 **Interior Paint and Coating Systems:**

Paint interior surfaces in accordance with the following *MPI* Painting Manual requirements:

A. **Concrete Vertical Surfaces:** (including horizontal soffits)

- 1) INT 3.1B Latex finish (over alkali-resistant primer).
- 2) INT 3.1B Latex finish over [insert texture type] latex aggregate.
- 3) INT 3.1C High performance architectural latex finish.

- 4) INT 3.1D Alkyd finish.
- 5) INT 3.1E Latex finish.
- 6) INT 3.1F Epoxy (tile-like) finish. [for smooth concrete]
- 7) INT 3.1G Epoxy-modified latex finish [for smooth concrete]
- 8) INT 3.1H Multicolor finish.
- 9) INT 3.1J Water repellent paintable finish.
- 10) INT 3.1K Concrete stain finish.
- 11) INT 3.1L Water based light industrial coating.
- 12) INT 3.1M Institutional low odor / low VOC finish.
- 13) INT 3.1N Latex [insert texture type] aggregate coating.
- 14) INT 3.1P Epoxy high build low gloss finish (over epoxy high build low gloss).
- 15) INT 3.1Q Epoxy high build gloss finish (over epoxy high build gloss)

B. Concrete Horizontal Surfaces: (floors and stairs)

- 1) INT 3.2A Latex floor enamel finish.
- 2) INT 3.2B Alkyd floor enamel finish.
- 3) INT 3.2C Epoxy finish.
- 4) INT 3.2D Pigmented polyurethane finish.
- 5) INT 3.2E Concrete stain finish.
- 6) INT 3.2F Concrete floor sealer finish.
- 7) INT 3.2G Concrete floor sealer, water based finish.
- 8) INT 3.2H Latex zone / traffic marking finish. [for parking lines, etc]
- 9) INT 3.2J Alkyd zone / traffic marking finish. [for parking lines, etc]
- 10) INT 3.2K Polyurethane, Clear (2 component) finish.
- 11) INT 3.2L Epoxy high build low gloss finish (over epoxy high build low gloss).
- 12) INT 3.2M Epoxy high build gloss finish (over epoxy high build gloss).

C. Cementitious Composition Board Surfaces:

- 1) INT 3.3A Latex finish.
- 2) INT 3.3B High performance architectural latex finish.
- 3) INT 3.3C Alkyd finish.
- 4) INT 3.3D Epoxy-modified latex finish.
- 5) INT 3.3E Epoxy (tile like) finish.
- 6) INT 3.3F Multicolor finish.
- 7) INT 3.3G Institutional low odor / low VOC finish.

- 8) INT 3.3H Water based light industrial coating.

B. Clay Masonry Units: (pressed and extruded brick)

- 1) INT 4.1A Latex finish.
 2) INT 4.1B Latex [insert texture type] aggregate coating.
 3) INT 4.1C Water based light industrial coating.
 4) INT 4.1D Alkyd finish.
 5) INT 4.1F Epoxy (tile like) finish. [for smooth concrete]
 6) INT 4.1G Epoxy-modified latex finish. [for smooth surfaces]
 7) INT 4.1H Multicolor finish.
 8) INT 4.1J Water repellent, clear (paintable) finish.
 9) INT 4.1K Polyurethane, clear, 2 component finish.
 10) INT 4.1L High performance architectural latex finish.
 11) INT 4.1M Institutional low odor / low VOC finish.

C. Concrete Masonry Units: (smooth and split face block and brick)

- 12) INT 4.2A Latex finish.
 13) INT 4.2B Latex [insert texture type] aggregate coating.
 14) INT 4.2C Alkyd finish.
 15) INT 4.2D High performance architectural latex finish.
 16) INT 4.2E Institutional low odor / low VOC finish.
 17) INT 4.2F Epoxy (tile-like) finish. [for dry environments]
 18) INT 4.2G Epoxy (tile-like) finish. [for wet environments]
 19) INT 4.2H Multicolor finish.
 20) INT 4.2J Epoxy-modified latex finish. [for dry environments].
 21) INT 4.2K Water based light industrial coating.
 22) INT 4.2L Water repellent (non-paintable) finish. [do not use on light weight block]
 23) INT 4.2M Water repellent (paintable) finish. [do not use on light weight block]
 24) INT 4.2N Alkyd finish (over latex sealer).
 25) INT 4.2P High performance architectural latex finish (over alkali resistant primer).
 26) INT 4.2Q Polyurethane, clear, 2 component finish.
 27) INT 4.2R Epoxy high build low gloss finish (over epoxy high build low gloss).
 28) INT 4.2S Epoxy high build gloss finish (over epoxy high build gloss).

D. **Structural Steel and Metal Fabrications:** (columns, beams, joists, etc.)

- 1) INT 5.1A Quick dry enamel [gloss] [semi-gloss] finish.
- 2) INT 5.1B Water based light industrial coating.
- 3) INT 5.1C Water based dry fall finish.
- 4) INT 5.1CC Water based dry fall finish (over quick dry shop primer).
- 5) INT 5.1D Alkyd dry fall finish.
- 6) INT 5.1DD Alkyd dry fall finish (over quick dry shop primer).
- 7) INT 5.1E Alkyd finish.
- 8) INT 5.1F Polyurethane, pigmented finish (over epoxy primer).
- 9) INT 5.1G Polyurethane, pigmented finish (over high-build epoxy).
- 10) INT 5.1H Polyurethane, pigmented finish (over inorganic zinc primer and epoxy).
- 11) INT 5.1J Polyurethane, pigmented finish (over epoxy zinc rich primer and epoxy).
- 12) INT 5.1K Epoxy-modified latex finish.
- 13) INT 5.1L Epoxy finish.
- 14) INT 5.1LL Epoxy Deck Coating finish (over epoxy primer).
- 15) INT 5.1M Aluminum paint finish.
- 16) INT 5.1N Water based light industrial coating (over epoxy primer).
- 17) INT 5.1P High build epoxy (over epoxy zinc rich primer).
- 18) INT 5.1Q Latex finish (over alkyd primer).
- 19) INT 5.1R High performance architectural latex finish.
- 20) INT 5.1S Institutional low odor / low VOC finish.
- 21) INT 5.1T Alkyd finish (over surface tolerant primer).
- 22) INT 5.1U Polyurethane, pigmented finish (over self-priming epoxy).
- 23) INT 5.1V Epoxy finish (over self-priming epoxy).
- 24) INT 5.1W Alkyd finish (over quick dry shop primer). [for dry locations only]
- 25) INT 5.1X Latex finish (over quick dry shop primer). [for dry locations only]
- 26) INT 5.1Y Epoxy high build low gloss finish (over primer)
- 27) INT 5.1Z Epoxy high build gloss finish (over epoxy primer).
- 28) INT 5.1QDS Quick dry shop paint finish (for dry locations only). [do not topcoat]

E. **Steel - High Heat:** (boilers, furnaces, pipes, flues, etc., with temperature range as noted)

- 1) INT 5.2A Heat resistant enamel finish, maximum 400° F (205° C).

- 2) INT 5.2B Heat resistant enamel, aluminum paint finish, maximum 800° F (427° C).
 - 3) INT 5.2C Inorganic zinc rich coating, maximum 750° F (400° C).
 - 4) INT 5.2D High heat resistant coating, maximum 1100° F (593° C).
- F. **Galvanized Metal:** (doors, frames, railings, misc. steel, pipes, overhead decking, ducts, etc.)
- 1) INT 5.3A Latex finish.
 - 2) INT 5.3B Water based light industrial coating.
 - 3) INT 5.3C Alkyd finish (over cementitious primer).
 - 4) INT 5.3D Epoxy finish (over epoxy primer).
 - 5) INT 5.3E Epoxy finish (over vinyl wash primer and epoxy primer).
 - 6) INT 5.3F Alkyd dry fall finish. [for use on low contact / low traffic areas only]
 - 7) INT 5.3G Aluminum paint finish.
 - 8) INT 5.3H Water based dry fall finish. [for use on low contact / traffic areas only]
 - 9) INT 5.3J Latex finish (over water based primer).
 - 10) INT 5.3K Water based light industrial coating (over water based primer).
 - 11) INT 5.3L Alkyd finish (over non-cementitious primer).
 - 12) INT 5.3M High performance architectural latex finish.
 - 13) INT 5.3N Institutional low odor / low VOC finish.
- G. **Aluminum:** (unanodized)
- 1) INT 5.4A Alkyd (over vinyl wash primer) finish.
 - 2) INT 5.4B Epoxy finish.

- 3) INT 5.4C Polyurethane, pigmented finish.
- 4) INT 5.4D Aluminum paint finish. [for exposed aluminum]
- 5) INT 5.4E Water based light industrial coating.
- 6) INT 5.4F High performance architectural latex finish.
- 7) INT 5.4G Institutional low odor / low VOC finish.
- 8) INT 5.4H Latex finish (over quick dry primer for aluminum).
- 9) INT 5.4J Alkyd finish (over quick dry primer for aluminum).

H. **Glue Laminated Beams and Columns:**

- 1) INT 6.1A Latex finish (over alkyd primer).
- 2) INT 6.1B Alkyd finish.
- 3) INT 6.1C Alkyd varnish finish.
- 4) INT 6.1D Polyurethane varnish finish.
- 5) INT 6.1E Polyurethane, pigmented finish.
- 6) INT 6.1F Water based varnish, clear finish.
- 7) INT 6.1G Semi transparent stain finish.
- 8) INT 6.1H Alkyd solid color stain finish.
- 9) INT 6.1J Polyurethane varnish [gloss] [satin] finish (over stain).
- 10) INT 6.1K Alkyd varnish finish (over stain).
- 11) INT 6.1L Epoxy finish.
- 12) INT 6.1M Latex finish (over latex primer).
- 13) INT 6.1N High performance architectural latex finish.
- 14) INT 6.1P Alkyd varnish finish (over stain and sealer).
- 15) INT 6.1Q Institutional low odor / low VOC finish.
- 16) INT 6.1R Water based varnish, clear finish (over stain).
- 17) INT 6.1S Polyurethane, clear, moisture cured finish (over stain).
- 18) INT 6.1T Latex solid color stain finish.
- 19) INT 6.1U Fire retardant, pigmented coating (ULC rated).
- 20) INT 6.1V Fire retardant, clear coating (ULC rated).
- 21) INT 6.1W Polyurethane, clear, 2 component finish.

I. **Dimension Lumber:** (columns, beams, exposed joists, underside of decking, etc.)

- 1) INT 6.2A Latex finish (over alkyd primer).
- 2) INT 6.2B High performance architectural latex finish.
- 3) INT 6.2C Alkyd finish.
- 4) INT 6.2D Latex finish (over latex primer).
- 5) INT 6.2E Multicolor finish.
- 6) INT 6.2F Fire retardant, pigmented coating (ULC rated).

- | | | |
|-----|----------|---|
| 7) | INT 6.2G | Fire retardant, clear coating (ULC rated). |
| 8) | INT 6.2H | Polyurethane varnish finish. |
| 9) | INT 6.2J | Polyurethane varnish finish (over stain). |
| 10) | INT 6.2K | Alkyd varnish finish (over stain and sealer). |
| 11) | INT 6.2L | Institutional low odor / low VOC finish. |
| 12) | INT 6.2M | Water based varnish, clear finish (over stain). |
| 13) | INT 6.2N | Polyurethane, clear, moisture cured [gloss] [flat] finish (over stain). |
| 14) | INT 6.2P | Alkyd varnish finish. |
| 15) | INT 6.2Q | Polyurethane, clear, 2 component finish. |
- J. **Dressed Lumber:** (including doors, door and window frames, casings, molding, etc.)
- | | | |
|-----|-----------|---|
| 1) | INT 6.3A | High performance architectural latex finish. |
| 2) | INT 6.3B | Alkyd finish. |
| 3) | INT 6.3BB | Alkyd, water based gloss finish. [in non-humid locations only] |
| 4) | INT 6.3C | Semi-transparent stain finish. [do not use on doors] |
| 5) | INT 6.3D | Alkyd varnish finish (over stain). |
| 6) | INT 6.3E | Polyurethane varnish finish (over stain). |
| 7) | INT 6.3F | Lacquer finish (over stain). |
| 8) | INT 6.3G | Lacquer, pigmented finish. |
| 9) | INT 6.3H | Lacquer, clear finish. |
| 10) | INT 6.3J | Alkyd varnish finish. |
| 11) | INT 6.3K | Polyurethane varnish finish. |
| 12) | INT 6.3L | Epoxy finish. |
| 13) | INT 6.3M | Danish oil finish. |
| 14) | INT 6.3N | Multicolor finish. |
| 15) | INT 6.3P | Water based light industrial coating. |
| 16) | INT 6.3Q | Water based varnish, clear finish. |
| 17) | INT 6.3R | Fire retardant, pigmented finish (ULC rated). |
| 18) | INT 6.3S | Fire retardant, clear finish (ULC rated). |
| 19) | INT 6.3T | Latex [semi-gloss] [gloss] finish (over latex primer). |
| 20) | INT 6.3U | Latex [semi-gloss] [gloss] finish (over alkyd primer). |
| 21) | INT 6.3V | Institutional low odor / low VOC finish. |
| 22) | INT 6.3W | Water based varnish, clear finish (over stain). |
| 23) | INT 6.3X | Polyurethane, clear, moisture cured [gloss] [flat] finish. |
| 24) | INT 6.3Y | Polyurethane, clear, moisture cured [gloss] [flat] finish (over stain). |
| 25) | INT 6.3Z | Polyurethane, clear, 2 component finish. |
- K. **Wood Paneling and Casework:** (partitions, panels, shelving, millwork, etc.)

- | | | |
|-----|----------|--|
| 1) | INT 6.4A | Latex finish (over alkyd sealer). |
| 2) | INT 6.4B | Alkyd finish (over alkyd sealer). |
| 3) | INT 6.4C | Semi-transparent stain finish. |
| 4) | INT 6.4D | Alkyd varnish finish (over stain). |
| 5) | INT 6.4E | Polyurethane varnish finish (over stain). |
| 6) | INT 6.4F | Lacquer finish (over stain). |
| 7) | INT 6.4G | Alkyd varnish finish. |
| 8) | INT 6.4H | Lacquer, pigmented finish. |
| 9) | INT 6.4J | Polyurethane varnish finish. |
| 10) | INT 6.4K | Danish oil finish. |
| 11) | INT 6.4L | Multicolor finish. |
| 12) | INT 6.4M | Water based, varnish clear finish. |
| 13) | INT 6.4N | Water based light industrial coating. |
| 14) | INT 6.4P | Fire retardant, pigmented coating (UL/ULC rated). |
| 15) | INT 6.4Q | Fire retardant, clear coating (UL/ULC rated). |
| 16) | INT 6.4R | Latex [semi-gloss] [gloss] finish (over latex primer). |
| 17) | INT 6.4S | High performance architectural latex finish. |
| 18) | INT 6.4T | Institutional low odor / low VOC finish. |
| 19) | INT 6.4U | Water based varnish, clear finish (over stain). |
| 20) | INT 6.4V | Polyurethane, clear moisture cured [gloss] [flat] finish (over stain). |
| 21) | INT 6.4W | Lacquer finish (over stain). |
| 22) | INT 6.4X | Lacquer, pigmented finish. |
| 23) | INT 6.4Y | Lacquer, clear finish. |
- L. **Wood Floors and Stairs:** (including hardwood.) *(SRA optional for all systems)k.*
- | | | |
|----|----------|---|
| 1) | INT 6.5A | Alkyd floor enamel [low gloss] [gloss] finish. |
| 2) | INT 6.5B | Polyurethane varnish [gloss] finish (over stain). |
| 3) | INT 6.5C | Polyurethane varnish [gloss] finish. |
| 4) | INT 6.5E | Alkyd game line marking. |
| 5) | INT 6.5F | Epoxy game line marking. |
| 6) | INT 6.5G | Latex porch and floor [low gloss] [gloss] enamel finish. |
| 7) | INT 6.5J | Polyurethane, moisture cured [gloss] finish (over stain). |
| 8) | INT 6.5K | Polyurethane, moisture cured [gloss] finish. |
| 9) | INT 6.5M | Polyurethane, clear, 2 component finish. |
- M. **Wood Shingles and Shakes:** (wall covering)
- | | | |
|----|----------|---------------|
| 1) | INT 6.6A | Latex finish. |
| 2) | INT 6.6B | Alkyd finish. |

- | | | |
|----|----------|---|
| 3) | INT 6.6C | Semi-transparent stain finish. |
| 4) | INT 6.6D | Alkyd solid color stain finish. |
| 5) | INT 6.6E | Latex solid color stain finish. |
| 6) | INT 6.6F | Latex finish (over latex primer). |
| 7) | INT 6.6G | Fire retardant, pigmented coating (UL/ULC rated). |
| 8) | INT 6.6H | Fire retardant, clear coating (UL/ULC rated). |
- N. **Fiberglass:** (panels, trims, fabrications, etc.)
- | | | |
|----|----------|--|
| 1) | INT 6.7A | Latex finish. |
| 2) | INT 6.7B | Alkyd finish. |
| 3) | INT 6.7C | Water based light industrial coating. |
| 4) | INT 6.7D | Epoxy finish. |
| 5) | INT 6.7E | Polyurethane, pigmented finish. |
| 6) | INT 6.7F | Epoxy-modified latex finish. |
| 7) | INT 6.7G | Multicolor finish. |
| 8) | INT 6.7H | High performance architectural latex finish. |
| 9) | INT 6.7J | Institutional low odor / low VOC finish. |
- O. **Plastic:** (lumber, panels, trims, fabrications, vinyl wall covering, PVA / PVC materials, etc.)
- | | | |
|----|----------|---|
| 1) | INT 6.8A | High performance architectural latex finish. |
| 2) | INT 6.8B | Alkyd finish. |
| 3) | INT 6.8C | Water based light industrial coating. INT 6.8D Multicolor finish. |
| 4) | INT 6.8E | Latex finish. |
| 5) | INT 6.8F | Institutional low odor / low VOC finish. |
- P. **Spray Textured Surfaces:** (ceilings)
- | | | |
|----|----------|--|
| 1) | INT 9.1A | Latex, flat finish [for spray application only]. |
| 2) | INT 9.1B | Latex finish (over alkyd sealer). |
| 3) | INT 9.1C | Alkyd, flat finish. |
| 4) | INT 9.1D | Alkyd finish (over alkyd sealer). |
| 5) | INT 9.1E | Latex finish. [for spray application only] |
- Q. **Plaster and Gypsum Board:** (gypsum wallboard, drywall, etc., and textured finishes)
- | | | |
|----|----------|--|
| 1) | INT 9.2A | Latex finish (over latex sealer). |
| 2) | INT 9.2B | High performance architectural latex finish. |
| 3) | INT 9.2C | Alkyd finish (over latex sealer). |
| 4) | INT 9.2E | Epoxy (tile-like) finish. |
| 5) | INT 9.2F | Epoxy-modified latex (tile-like) finish. |

- 6) INT 9.2G Multicolor finish.
- 7) INT 9.2H Fire retardant coating [clear or pigmented] (UL/ULC rated).
- 8) INT 9.2J Water based fire retardant coating (UL/ULC rated).
- 9) INT 9.2K Latex finish (over alkyd primer). [use on plaster surfaces only]
- 10) INT 9.2L Water based light industrial coating.
- 11) INT 9.2M Institutional low odor / low VOC finish.
- 12) INT 9.2N Epoxy high build low gloss finish (over latex sealer).
- 13) INT 9.2P Epoxy high build gloss finish (over latex sealer).

R. Acoustic Panels and Tiles:

- 1) INT 9.3A Latex, flat finish.
- 2) INT 9.3B Latex finish (over alkyd sealer).
- 3) INT 9.3C Alkyd, flat finish.
- 4) INT 9.3D Institutional low odor / low VOC finish.
- 5) INT 9.3E High performance architectural latex finish.

S. Canvas and Cotton Coverings:

- 1) INT 10.1A Latex finish.
- 2) INT 10.1B Alkyd finish.
- 3) INT 10.1C Aluminum paint finish.
- 4) INT 10.1D Institutional low odor / low VOC finish.

T. Bituminous Coated Surfaces: (cast iron pipe, concrete, etc.)

- 1) INT 10.2A Latex finish.
- 2) INT 10.2B Alkyd finish.
- 3) INT 10.2C Aluminum paint finish.

- U. Painting of interior game line layouts with colors as noted on approved game line layout drawing on interior resilient [gymnasium] flooring to be by others in accordance with *MPI* Painting Manual requirements.

3.6 Mechanical / Electrical Equipment and Related Surfaces:

- A. Unless otherwise specified or noted, paint all “unfinished” conduits, piping, hangers, ductwork and other mechanical and electrical equipment with color and texture to match adjacent surfaces, in the following areas:
 - 1) where exposed-to-view in all exterior and interior areas.
 - 2) in all interior high humidity interior areas.in all boiler room, mechanical and electrical rooms.
- B. In unfinished areas leave exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment in original finish and touch up scratches and marks.

- C. Touch up scratches and marks on factory painted finishes and equipment with paint as supplied by manufacturer of equipment.
- D. Do not paint over nameplates.
- E. Paint the inside of all ductwork where visible behind louvers, grilles and diffusers for a minimum of 460 mm (18") or beyond sight line, whichever is greater, with primer and one coat of matt black (non-reflecting) paint.
- F. Paint the inside of light valances gloss white.
- G. Paint disconnect switches for fire alarm system and exit light systems in red enamel.
- H. Paint [red] or band all fire protection piping and sprinkler lines in accordance with mechanical specification requirements. Keep sprinkler heads free of paint.
- I. Paint [yellow] or band all natural gas piping in accordance with mechanical specification requirements.
- J. Backprime and paint face and edges of plywood service panels for telephone and electrical equipment before installation [gray, semi-gloss] [to match adjacent wall surface]. Leave equipment in original finish except for touch-up as required, and paint conduits, mounting accessories and other unfinished items.
- K. Paint exterior steel electrical light standards. Do not paint outdoor transformers and substation equipment.

3.7 Field Quality Control / Standard of Acceptance:

- A. All surfaces, preparation and paint applications shall be inspected.
- B. Painted exterior and interior surfaces shall be considered to lack uniformity and soundness if any of the following defects are apparent to the Owner:
 - 1) brush / roller marks, streaks, laps, runs, sags, drips, heavy stippling, hiding or shadowing by inefficient application methods, skipped or missed areas, and foreign materials in paint coatings.
 - 2) evidence of poor coverage at rivet heads, plate edges, lap joints, crevices, pockets, corners and re-entrant angles.
 - 3) damage due to touching before paint is sufficiently dry or any other contributory cause.
 - 4) damage due to application on moist surfaces or caused by inadequate protection from the weather.
 - 5) damage and/or contamination of paint due to blown contaminants (dust, spray paint, etc.).
- C. Painted surfaces shall be considered unacceptable if any of the following are evident under natural lighting source for exterior surfaces and final lighting source (including daylight) for interior surfaces:
 - 1) visible defects are evident on vertical surfaces when viewed at normal viewing angles from a distance of not less than 1000 mm (39").

- 2) visible defects are evident on horizontal surfaces when viewed at normal viewing angles from a distance of not less than 1000 mm (39”).
 - 3) visible defects are evident on ceiling, soffit and other overhead surfaces when viewed at normal viewing angles.
 - 4) when the final coat on any surface exhibits a lack of uniformity of color, sheen, texture, and hiding across full surface area.
- D. Painted surfaces rejected by the Owner shall be made good at the expense of the Contractor. Small, affected areas may be touched up; large, affected areas or areas without sufficient dry film thickness of paint shall be repainted. Runs, sags of damaged paint shall be removed by scraper or by sanding prior to application of paint.

3.8 Protection:

- A. Protect all exterior surfaces and areas, including landscaping, walks, drives, all adjacent building surfaces (including glass, aluminum surfaces, etc.) and equipment and any labels and signage from painting operations and damage by drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection.
- B. Protect all interior surfaces and areas, including glass, aluminum surfaces, etc. and equipment and any labels and signage from painting operations and damage by drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection.
- C. Erect barriers or screens and post signs to warn of or limit or direct traffic away or around work area as required.

3.9 Clean-Up:

- A. Remove all paint where spilled, splashed, splattered or sprayed as work progresses using means and materials that are not detrimental to affected surfaces.
- B. Keep work area free from an unnecessary accumulation of tools, equipment, surplus materials and debris.
- C. Remove combustible rubbish materials and empty paint cans each day and safely dispose of same in accordance with requirements of authorities having jurisdiction.
- D. Clean equipment and dispose of wash water / solvents as well as all other cleaning and protective materials (e.g. rags, drop cloths, masking papers, etc.), paints, thinners, paint removers / strippers in accordance with the safety requirements of authorities having jurisdiction.

3.10 Repainting of Existing Finishes:

- A. Refer to *MPI* Maintenance Repainting Manual for repainting of existing finishes.
- B. Use finish coat of respective new surface paint system for minor repair of existing finishes. Use system primer where existing finishes are damaged down to bare surface.

END OF SECTION