

BIDDERS COMPANY NAME

REQUEST FOR PROPOSAL

6567

NEOGARD PARKING LOT COATING SERVICES FOR WASHTENAW COUNTY DOWNTOWN COURTHOUSE LOCATION

Prepared by:

Washtenaw County Purchasing
Administration Building
220 N. Main, B-35
Ann Arbor, MI 48107

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Senior Buyer
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WASHTENAW COUNTY FINANCE DEPARTMENT

Purchasing Division

P. O. Box 8645, 220 N. Main, Ann Arbor, MI 48107-8645
Phone (734) 222-6760, Fax (734) 222-6764

REQUEST FOR PROPOSAL # 6567

September 7, 2010

Washtenaw County Purchasing Division on behalf of the Washtenaw County Support Services Facilities Management Department is issuing a Request for Proposal (RFP) #6567 for Neogard Parking Lot Coating Services for the Washtenaw County Courthouse parking lot located at 101 E Huron, Ann Arbor, MI.

Sealed Proposals: Contractor will deliver one (1) original and **two (2)** copies to the following address:

**Washtenaw County
Administration Building
Purchasing Division
220 N. Main St. Room B-35
Ann Arbor, MI 48107**

by 4:00 p.m. on Monday September 20, 2010

MANDATORY Walk-Through on Monday September 13, 2010 at 10:00am. Meet at WC Courthouse Parking lot located in the back at 101 E. Huron Street, Ann Arbor, MI 48104. A Sign-in sheet will be available before the Walk-Through begins.

ATTENDANCE AT THE WALK-THROUGH IS MANDATORY.

Proposals received after the above cited time will be considered a late bid and are not acceptable unless waived by the Purchasing Manager.

- The envelope should be clearly marked "**SEALED RFP # 6567**".
- Please direct purchasing and procedural questions regarding this RFP to Crystal A. Wake, C.P.M., CPPB at 734-222-6761 or wakec@ewashtenaw.org.
- Please direct technical questions regarding this RFP to Bill Goebel at **734-260-5244** or goebelb@ewashtenaw.org

Thank you for your interest.

RFP #6567 Neogard Parking Lot Coating Services

I. PROPOSAL INFORMATION

Definitions	“Bidder”	an individual or business submitting a bid to Washtenaw County
	“Contractor”	One who contracts to perform services in accordance with a contract
	“County”	is Washtenaw County in Michigan

II. PROPOSAL TERMS

A. Washtenaw County reserves the right to reject any and all proposals received as a result of this RFP. If a proposal is selected, it will be the most advantageous regarding price, quality of service, the Contractors qualifications and capabilities to provide the specified service, and other factors that the County may consider. The County does not intend to award a contract fully on the basis of any response made to the proposal; the County reserves the right to consider proposals for modifications at any time before a contract would be awarded, and negotiations would be undertaken with that contractor whose proposal is deemed to best meet the County’s specifications and needs.

B. The County reserves the right to reject any or all bids, to waive or not waive informalities or irregularities in bids or bidding procedures, and to accept or further negotiate cost, terms, or conditions of any bid determined by the County to be in the best interests of the County even though not the lowest bid.

C. Proposals must be signed by an official authorized to bind the contractor to its provisions for at least a period of 90 days. Failure of the successful bidder to accept the obligation of the contract may result in the cancellation of any award.

D. In the event it becomes necessary to revise any part of the RFP, addenda will be provided. Deadlines for submission of RFP's may be adjusted to allow for revisions. To be considered, **Three (3) copies, the original and Two (2) copies** must be at the County on or before the date specified.

E. Proposals should be prepared simply and economically providing a straight-forward, concise description of the contractor's ability to meet the requirements of the RFP. Proposals shall be typewritten. No erasures are permitted. Mistakes may be crossed out and corrected and must be initialed in ink by the person signing the proposal.

F. In the event, the County receives two or more bids from responsive, responsible bidders, one or more of whom are Washtenaw County vendors and the bids are substantially equal in price, quality and service, the County shall award the contract to the most responsive, responsible Washtenaw County vendor. For purposes of this section, Washtenaw County vendor means a company which has maintained its principle office in Washtenaw County for at least six (6) months. Maintaining a Washtenaw County P.O Box is not, in and of itself, sufficient to discretion under this section to determine if a company qualifies as a Washtenaw County vendor and if two or more bids are substantially equal.

III. CONTRACTOR INFORMATION

The proposal should include all of the following information:

- A. Contractor's Qualifications, years in business, experience in providing the level and type of service specified in the proposal.
- B. At least three (3) references covering similar services. Include company name, contact name, phone number.
- C. Provide letter from manufacturer Neogard stating contractor is approved to install the vehicular traffic coating system.
- D. Bank reference with name and phone number of contact person.

IV. STANDARD PROVISIONS FOR CONTRACTS

If a contract is awarded, the selected vendor will be required to adhere to a set of general contract provisions that will become a part of any formal agreement. These provisions are general principles that apply to all contractors of service to Washtenaw County such as the following:

ARTICLE III - REPORTING OF CONTRACTOR

Section 1 - The Contractor is to report to Director of Support Services Facilities Management and/or designee and will cooperate and confer with him/her as necessary to insure satisfactory work progress.

Section 2 - All reports, estimates, memoranda and documents submitted by the Contractor must be dated and bear the Contractor's name.

Section 3 - All reports made in connection with these services are subject to review and final approval by the County Administrator.

Section 4 - The County may review and inspect the Contractor's activities during the term of this contract.

Section 5 - When applicable, the Contractor will submit a final, written report to the County Administrator.

Section 6 - After reasonable notice to the Contractor, the County may review any of the Contractor's internal records, reports, or insurance policies.

ARTICLE V- PERSONNEL

Section 1 - The Contractor will provide the required services and will not subcontract or assign the services without the County's written approval.

Section 2 - The Contractor will not hire any County employee for any of the required services without the County's written approval.

Section 3 - The parties agree that the Contractor is neither an employee nor an agent of the County for any purpose.

ARTICLE VI - INDEMNIFICATION AGREEMENT

The Contractor will protect, defend and indemnify Washtenaw County, its officers, agents, servants, volunteers and employees from any and all liabilities, claims, liens, fines, demands and costs, including legal fees, of whatsoever kind and nature which may result in injury or death to any persons, including the Contractor's own employees, and for loss or damage to any property, including property owned or in the care, custody or control of Washtenaw County in connection with or in any way incident to or arising out of the occupancy, use, service, operations, performance or non-performance of work in connection with this contract resulting in whole or in part from negligent acts or omissions of Contractor, any sub-Contractor, or any employee, agent or representative of the Contractor or any sub-Contractor.

ARTICLE VII- INSURANCE REQUIREMENTS

The Contractor will maintain at its own expense during the term of this Contract, the following insurance:

1. Workers' Compensation Insurance with Michigan statutory limits and Employers Liability Insurance with a minimum limit of \$100,000 each accident for any employee.
2. Comprehensive/Commercial General Liability Insurance with a combined single limit of \$1,000,000 each occurrence for bodily injury and property damage. The County shall be added as "additional insured" on general liability policy with respect to the services provided under this contract.
3. Automobile Liability Insurance covering all owned, hired and nonowned vehicles with Personal Protection Insurance and Property Protection Insurance to comply with the provisions of the Michigan No Fault Insurance Law, including residual liability insurance with a minimum combined single limit of \$1,000,000 each accident for bodily injury and property damage.

Insurance companies, named insureds and policy forms shall be subject to the approval of the Washtenaw County Administrator. Such approval shall not be unreasonably withheld. Insurance policies shall not contain endorsements or policy conditions which reduce coverage provided to Washtenaw County. Contractor shall be responsible to Washtenaw County or insurance companies insuring Washtenaw County for all costs resulting from both financially unsound insurance companies selected by Contractor and their inadequate insurance coverage. Contractor shall furnish the Washtenaw County Administrator with satisfactory certificates of insurance or a certified copy of the policy, if requested by the County Administrator.

No payments will be made to the Contractor until the current certificates of insurance have been received and approved by the Administrator. If the insurance as evidenced by the certificates furnished by the Contractor expires or is canceled during the term of the contract, services and related payments will be suspended. Contractor shall furnish the County Administrator's Office with certification of insurance evidencing such coverage and endorsements at least ten (10) working days prior to commencement of services under this contract. Certificates shall be addressed to the County Administrator, P.O. Box 8645, Ann Arbor, MI, 48107, and shall provide for 30 day written notice to the Certificate holder of cancellation of coverage.

ARTICLE VIII - COMPLIANCE WITH LAWS AND REGULATIONS

The Contractor will comply with all federal, state and local regulations, including but not limited to all applicable OSHA/MIOSHA requirements and the Americans with Disabilities Act.

ARTICLE IX- INTEREST OF CONTRACTOR AND COUNTY

The Contractor promises that it has no interest which would conflict with the performance of services required by this contract. The Contractor also promises that, in the performance of this contract, no officer, agent, employee of the County of Washtenaw, or member of its governing bodies, may participate in any decision relating to this contract which affects his/her personal interest or the interest of any corporation, partnership or association in which he/she is directly or indirectly interested or has any personal or pecuniary interest. However, this paragraph does not apply if there has been compliance with the provisions of Section 3 of Act No. 317 of the Public Acts of 1968 and/or Section 30 of Act No. 156 of Public Acts of 1851, as amended by Act No. 51 of the Public Acts of 1978, whichever is applicable.

ARTICLE X- CONTINGENT FEES

The Contractor promises that it has not employed or retained any company or person, other than bona fide employees working solely for the Contractor, to solicit or secure this contract, and that it has not paid or agreed to pay any company or person, other than bona fide employees working solely for the Contractor, any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award or making of this contract. For breach of this promise, the County may cancel this contract without liability or, at its discretion, deduct the full amount of the fee, commission, percentage, brokerage fee, gift or contingent fee from the compensation due the Contractor.

ARTICLE XI - EQUAL EMPLOYMENT OPPORTUNITY

The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, sexual orientation, national origin, physical handicap, age, height, weight, marital status, veteran status, religion and political belief (except as it relates to a bona fide occupational qualification reasonably necessary to the normal operation of the business).

The Contractor will take affirmative action to eliminate discrimination based on sex, race, or a handicap in the hiring of applicant and the treatment of employees. Affirmative action will include, but not be limited to: Employment; upgrading, demotion or transfer; recruitment advertisement; layoff or termination; rates of pay or other forms of compensation; selection for training, including apprenticeship.

The Contractor agrees to post notices containing this policy against discrimination in conspicuous places available to applicants for employment and employees. All solicitations or advertisements for employees, placed by or on the behalf of the Contractor, will state that all qualified applicants will receive consideration for employment without regard to race, creed, color, sex, sexual orientation, national origin, physical handicap, age, height, weight, marital status, veteran status, religion and political belief.

ARTICLE XII - PREVAILING WAGE RATES AND CUB AGREEMENT

The Contractor agrees that all craftsmen, mechanics and laborers it employs to work on this project shall, at a minimum, receive the prevailing wages and fringe benefits of the Building Trade Department for corresponding classes of craftsmen, mechanics and laborers for the Washtenaw County area, as determined and published by the Davis-Bacon Division of the United States Department of Labor. Contractor agrees that all subcontracts entered into by the Contractor shall contain a similar provision covering any sub-contractor's employees who perform work on this project. Contractor further agrees to sign a project labor agreement as provided by the Construction Unity Board ("CUB Agreement"). A copy of the CUB Agreement is attached as an appendix to this Contract.

ARTICLE XIII - ASSIGNS AND SUCCESSORS

This contract is binding on the County and the Contractor, their successors and assigns. Neither the County nor the Contractor will assign or transfer its interest in this contract without the written consent of the other.

ARTICLE XIV - TERMINATION OF CONTRACT

Section 1 - Termination without cause. Either party may terminate the contract by giving thirty (30) days written notice to the other party.

ARTICLE XV - EQUAL ACCESS

The Contractor shall provide the services set forth in paragraph I without discrimination on the basis of race, color, religion, national origin, sex, sexual orientation, marital status, physical handicap, or age.

ARTICLE XVI - OWNERSHIP OF DOCUMENTS AND PUBLICATION

All documents developed as a result of this contract will be freely available to the public. None may be copyrighted by the Contractor. During the performance of the services, the Contractor will be responsible for any loss of or damage to the documents while they are in its possession and must restore the loss or damage at its expense. Any use of the information and results of this contract by the Contractor must reference the project sponsorship by the County. Any publication of the information or results must be co-authored by the County.

ARTICLE XVII - PAYROLL TAXES

The Contractor is responsible for all applicable state and federal social security benefits and unemployment taxes and agrees to indemnify and protect the County against such liability.

ARTICLE XVIII - PRACTICE AND ETHICS

The parties will conform to the code of ethics of their respective national professional associations.

ARTICLE XIX - CHANGES IN SCOPE OR SCHEDULE OR SERVICES

Changes mutually agreed upon by the County and the Contractor, will be incorporated into this contract by written amendments signed by both parties.

ARTICLE XX - CHOICE OF LAW AND FORUM

This contract is to be interpreted by the laws of Michigan. The parties agree that the proper forum for litigation arising out of this contract is in Washtenaw County, Michigan.

ARTICLE XXI - EXTENT OF CONTRACT

This contract represents the entire agreement between the parties and supersedes all prior representations, negotiations or agreements whether written or oral.

**CONTRACT APPENDIX
CUB MEMORANDUM OF UNDERSTANDING**

I. WORK DISPUTES

In return for the promise made in paragraph III. below, the parties agree that there will be no strike, work stoppage or lock-out for the duration of this Memorandum. Any jurisdictional dispute shall be resolved through normal procedures.

There will be a job conference with all contractors and sub-contractors prior to starting work.

II. COFFEE BREAKS

There shall be no organized coffee breaks.

III. PAYMENT OF FRINGES

Any Union having a claim against a contractor or subcontractor for unpaid wages and/or fringe benefits for work performed on the project shall give written notice of such claim to such contractor or subcontractor (With a copy of the notice to the Construction Manager or General Contractor) within three (3) business days after such claim has become known. Upon receipt of such written notice, the Construction Manager or General Contractor involved shall withhold an amount equal to the claim from the next disbursement payable to the contractor, pending resolution of the dispute satisfactory to the Construction manager or general Contractor. In the event of any such dispute, the Union agrees to use its best efforts to pursue any legal remedies available, including litigation by Fund Trustees. It is understood that the intent to this section is to accomplish prompt and effective resolution of any disputes between the Union and any contractor or subcontractor over payment of wages and fringes.

IV. UNION WORK

The parties understand and agree that each contractor and subcontractor at all tiers of this project shall, prior to beginning work on the project, become signatory parties to the respective current collective bargaining agreements of the appropriate Local Unions of the Washtenaw County Skilled Building Trades Council.

(Contractor, Owner or Construction Manager)

(Representative of Washtenaw County
Skilled Building Trades Council)

(Project Description)

(DATE)

THIS MEMORANDUM APPLIES ONLY TO THE PROJECT AND/OR CONSTRUCTION ABOVE DESCRIBED.

DISTRIBUTION:

WHITE – Union Copy

GREEN – Contractor or Construction Manager Copy

CANARY – Owner Copy

PINK – CUB Copy

GOLD – Project Copy

SCOPE OF SERVICES

A. General Information

The Contractor will provide all labor, tools, equipment, materials and supervision with incidental services necessary to supply and apply a compatible Neogard Auto-Gard vehicular traffic coating system in accordance with all of the applicable Neogard "Recoat Guidelines Standard & Fast-Cure Coating Systems". The coating shall match the existing light gray color. (See Attachment A & B)

The Contractor shall be responsible for:

- Project preplanning and mobilization to the site.
- Set up barricades at the work area to control traffic in the work area.
- Complete the work in three phases that will close down the one third of the top level parking deck. Dependant on weather the west phase and the central phase are expected to be completed in two weeks. The eastern phase that will prohibit the use of the lower deck for parking during application of the system must be started on a Friday evening after 5:00 P.M. and be ready for use the following Monday morning at 7:00 A.M. A substantial portion of the parking lot must remain open during business hours Monday through Friday from 7:00 A.M to 5:30 P.M. Working hours shall be weekdays from 5:30 P.M. to 7:00 A.M. and on mutually agreed to weekends.
- Remove and replace cove sealants at curbs, stairs, and divider on ramp.
- Route and seal cracks.
- Perform partial depth concrete repairs to curbs and barrier walls.
- Remove de-bonded coating as needed.
- Perform coating pull off tests to ensure the bond strength of the existing coating and provide the test results to the designated County representative.
- Clean the parking lot as recommended by Neogard.
- Re-stripe the top level of the parking lot.
- Clean up the work areas to remove all debris created by the work.
- Provide permits, if required.
- Provide restroom facilities.
- Traffic control signage and street permits, if needed.

The contractor must provide in the bid:

- The name and product number of the Neogard Product or Products which will be used to recoat the parking lot.
- The product number of the Neogard Auto-Gard primer to be applied?
- The thickness of the Neogard Auto-Gard sand broadcast coat that will be applied.
- The thickness of the Neogard Auto-Gard top coat to be applied.

B. Quality Assurance

Installer must be an authorized Neogard contractor or applicator and provide certification at the time of the bid of such certification. Provide a copy of the Warranty upon completion of the work against any defects in materials or workmanship.

C. Delivery, Storage and Handling

The installer will follow manufacturer's instructions and recommendations for delivery storage and handling requirements. (See Attachment A & B)

D. Warranty

Provide in the bid the length of the Neogard Auto-Gard vehicular traffic coating system guarantee against defects in the installed product, workmanship, and labor by the Contractor if the Contractor is the successful bidder. Contractor shall list and supply additional manufacturer's standard guarantees for the Neogard Auto-Gard vehicular traffic coating system used. (Please attach copies of manufacturer's standard guarantees). These warranties shall be in addition to, and not a limitation of, other rights the Owner may have under General Conditions provisions of the Contract Documents.

E. Protection

Protect the system against damage during the construction period. The Contractor shall advise the Owner of additional protection needed to ensure that system will be without damage or deterioration at time of substantial completion. The Contractor shall advise the Owner of the method to protect vehicles that are in close proximity to the work from impact and from a chemical or vehicular coating splash to the vehicle.

F. Alternate Bid

The Contractor shall supply an alternate bid substituting Neogard Auto-Gard FC vehicular traffic coating for Neogard Auto-Gard vehicular traffic coating. The Scope of Services shall remain the same. See Attachment A & B)

V. TERMS AND CONDITIONS

Award:

Washtenaw County reserves the right to reject any and all proposals received as a result of this RFP. If a proposal is selected it will be the most advantageous regarding price (See: "Low Bidder" following), quality of service, the Vendors' qualifications and capabilities to provide the specified service, and other factors which the County may consider. The County does not intend to award a Bid fully on the basis of any response made to the proposal; the County reserves the right to consider proposals for modifications at any time before a Bid would be awarded, and negotiations would be undertaken with that Vendor whose proposal is deemed to best meet the County's specifications and needs.

Low Bidder:

A low bidder will be determined by the overall lowest prices.

Term of Bid:

The Bid is for a term beginning from the time of award to the completion of the project but not to go past a six week time period.

BID SHEET

The contractor will provide costs including all labor, tools, equipment, materials and supervision with incidental services necessary to supply and apply a compatible Neogard vehicular traffic coating system in accordance with all applicable Neogard "Recoat Guidelines Standard and Fast-Cure Coating Systems." Please enter pricing per linear or square foot for each operation to be performed.

- 1. Preparation: All surfaces will be prepared according to Auto-Gard Guide Specifications Part 3.2.

Cost per square foot \$ _____

- 2. Damage & Crack Repair: All cracks shall be thoroughly cleaned of debris, dirt, loose pavement and vegetation. Repair all cracks and damaged areas of concrete deck using 100% solids epoxy and sand for filling and leveling.

Cost per lineal foot \$ _____

- 3. Auto-Gard Coating: All specified parking areas. Auto-Gard coating to meet NeoGard Guide Specifications.

Cost per square foot \$ _____

- 4. Line marking: Restripe all lines in parking areas including Handi-Cap parking areas. All paints to meet latex traffic marking paint specifications.

Cost per lineal foot \$ _____

- 5. Lettering/Symbols: Total Replacement. All paints to meet latex traffic marking paint specifications.

Cost per square foot \$ _____

Total Cost of Project Using: **(NEOGARD Auto-Gard Vehicular Traffic Coating)**

\$ _____

(Above Amount in Words)

Total Cost of Project Using Alternate: **(NEOGARD Auto-Gard Fast Cure Vehicular Traffic Coating)**

\$ _____

(Above Amount in Words)

SIGNATURE PAGE

Signature	Company Name
Print Name	Company Address
Title	City St. Zip
Telephone #	Fax #
Federal Tax ID #	Email Address for Purchase Orders

The above individual is authorized to sign on behalf of company submitting proposal.

Proposals must be signed by an official authorized to bind the provider to its provisions for at least a period of 90 days.

By checking this box we hereby certify that we are a Washtenaw County company as defined in Section I., F. above. If proven otherwise you may be subject to Disbarment and/or Suspension of doing business with Washtenaw County.

ATTACHMENT

“A”

**Guide Specification****PART 1 GENERAL****1.1 SUMMARY**

- A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied vehicular traffic coating system as outlined in this specification to new or existing concrete surfaces.
- B. The manufacturer's application instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Sections:
 1. Section 03 30 00 - Cast-in-Place Concrete
 2. Section 03 40 00 - Precast Concrete
 3. Section 07 90 00 - Joint Protection

1.2 SYSTEM DESCRIPTION

- A. AUTO-GARD® shall be a complete system of compatible materials supplied by NEOGARD® to create a seamless waterproof membrane.
- B. AUTO-GARD® shall be designated for application on the specific type of deck indicated on the drawings.

1.3 SUBMITTALS

- A. Product Data: Submit NEOGARD® product literature and installation instructions.
- B. Project Reference List: Submit list of projects as required by this specification.
- C. Samples: Submit samples of specified vehicular traffic coating system. Samples shall be construed as examples of finished color and texture of the system only.
- D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the vehicular traffic coating system.
- E. Warranty: Submit copy of manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: AUTO-GARD®, as supplied by NEOGARD®, is approved for use on this project.

- B. Applicator Qualifications: Applicators shall be approved to install specified system.
- C. Requirement of Regulatory Agencies:
 1. The vehicular traffic coating system shall be rated Class "A" by Underwriters Laboratories (ASTM E108/UL790). Containers to bear Underwriters Laboratories labels.
 2. Materials used in the vehicular traffic coating system shall meet existing Federal, State and local VOC regulations.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.
- B. Storage and Handling: Recommended material storage temperature is 75°F. Handle products to avoid damage to container. Do not store for long periods in direct sunlight.

1.6 JOB CONDITIONS

- A. Environmental Conditions:
 1. Do not proceed with application of materials when deck temperature is less than 40°F.
 2. Do not apply materials unless surface to receive coating is clean and dry, or if precipitation is imminent.

1.7 WARRANTY

- A. Upon request, NEOGARD® shall offer the manufacturer's standard warranty upon receipt of a properly executed warranty request form.

PART 2 PRODUCTS**2.1 MANUFACTURER**

- A. NEOGARD® Division of JONES-BLAIR® Company, P.O. Box 35286, Dallas, TX 75235, Toll Free (800) 321-6588, Fax (214) 357-7532, www.neogard.com.

2.2 MATERIALS

- A. Vehicular Traffic Coating Material:
 1. Primer: Concrete and metal primers as required by NEOGARD®.
 2. Flashing Tape: 86218 flashing tape (ETERNABOND™ WebSeal™) or approved equal having a minimum thickness of 30 mils.
 3. Liquid Flashing: 70410 or 7430 series polyurethane coating.
 4. Aggregate: 7992 silica (quartz) sand or other aggregate approved by NEOGARD®.
 5. Elastomeric Base Coat: 70410 polyurethane coating, gray in color.

6. Elastomeric Topcoat: 7400 series polyurethane coating, gray or tan in color.
7. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Physical properties of cured vehicular traffic coating system used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM			
PHYSICAL PROPERTIES	TEST METHOD	BASE COAT	TOPCOAT
Tensile Strength	ASTM D412	1,200 psi	2,500 psi
Elongation	ASTM D412	400%	400%
Permanent Set	ASTM D412	<10%	<30%
Tear Resistance	ASTM D1004	150 pli	200 pli
Water Resistance	ASTM D471	<3% @ 7 days	<3% @ 7 days
MVT @ 20 mils	ASTM E96	2.6 English	2 English
Taber Abrasion (cs17), max	ASTM D4060	30 mg/1,000 rev	25 mg/1,000 rev
Shore A	ASTM D2240	70-75	75-80
Adhesion	ASTM D4541	300 psi	300 psi
Weathering Resistance	ASTM D822	N/A	Slight Chalk
Thermal Shock	Alternate Heat/Cold	No Loss of Adhesion	No Loss of Adhesion
"Standard Specifications for High Solids Content, Cold-Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface"	ASTM C957	System Exceeds Requirements	

2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, adhesives, backer rod, deck drains, etc. shall be a composite part of the deck system and shall be compatible with the specified vehicular traffic coatings.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Concrete: Verify that the work done under other sections meets the following requirements:
1. That the concrete deck surface is free of ridges and sharp projections. If metal forms or decks are used they should be ventilated to permit adequate drying of concrete on exterior exposed deck.
 2. That the concrete was cured for a minimum of 28 days. (Minimum of 4,000 psi compressive strength). Water-cured treatment of concrete is preferred. The use of concrete curing agents, if any, shall be of the sodium silicate base only; others require written approval by NEOGARD®.
 3. That the concrete was finished by a power or hand steel trowel followed by soft hair broom to obtain light texture or "sidewalk" finish.
 4. That damaged areas of the concrete deck be restored to match adjacent areas. Use 100% solids epoxy and sand for filling and leveling.

3.2 PREPARATION

- A. Surface Preparation:

1. Cleaning: Surfaces contaminated with oil or grease shall be vigorously scrubbed with a power broom and a strong non-sudsing detergent. Thoroughly wash, clean, and dry. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
2. Shot Blasting: Required surface preparation method for remedial construction, is also the preferred method for new construction. Mechanically prepare surface by shot blasting to industry standard surface texture (ICRI's CSP3-4) without causing additional surface defects in deck surface. Shot blasting does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to insure proper bonding of the deck coating. Note: If shot blasting is not practical, treat concrete surfaces with 10% to 15% solution of muriatic acid to remove laitance and impurities. After acid has stopped foaming or boiling, immediately rinse thoroughly with water. Re-rinse as required to remove muriatic acid solution. Acid etching does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to insure proper bonding of the deck coating.
3. Cracks and Cold Joints: Visible hairline cracks (up to 1/16" in width) in concrete and cold joints shall be cleaned, primed as required and treated with liquid flashing a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (over 1/16" in width) shall be routed and sealed with sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with liquid flashing a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
4. Control Joints: Seal secondary control joints with sealant. Sealant shall be applied to inside area of joint only, not applied to deck surface. Detail sealed joints with liquid flashing a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.
5. Flashing Tape: Install flashing tape where indicated on the drawings prior to the application of elastomeric coating.
6. Surface Condition: Surface shall be clean and dry prior to coating.

3.3 APPLICATION

- A. Seed and Lock Method
1. Primer: Where required, apply 1/3 gallon per 100 square feet (300 sf/gal) to all concrete surfaces in strict accordance with procedures outlined by NEOGARD®. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, reprime.
 2. Base Coat: Apply 1-2/3 gallons per 100 square feet (60 sf/gal) of elastomeric base coat to deck surfaces in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
 3. Wearing Surface Coat: Apply 2/3 gallon per 100 square feet (150 sf/gal) of elastomeric topcoat in strict accordance with procedures outlined by NEOGARD® and immediately broadcast aggregate, evenly distributed, into wet coating at the rate of 10 to 15 pounds per 100 square feet.

4. Finish Coat: When dry, remove excess aggregate and recoat surface with 1 gallon per 100 square feet (100 sf/gal) of elastomeric topcoat in strict accordance with procedures outlined by NEOGARD®. Total system coating thickness averages 40 dry mils exclusive of aggregate.
5. Double-Texturing: For heavy traffic areas such as ticket booths, spiraled ramps, turn areas, or in other areas subjected to extremely high traffic abrasion, double-texturing is required. In such areas, apply double-texture as follows: After the wearing surface coat to receive aggregate has cured and loose aggregate removed, apply 1 gallon per 100 square feet (100 sf/gal) of elastomeric topcoat in strict accordance with procedures outlined by NEOGARD® and immediately broadcast additional aggregate, evenly distributed, into wet coating at the rate of 10 to 15 pounds per 100 square feet. When dry, remove excess aggregate and recoat surface with 1 gallon per 100 square feet (100 sf/gal) of elastomeric topcoat in strict accordance with procedures outlined by NEOGARD®. Double-textured areas will yield an average of 52 dry mils exclusive of aggregate.
*Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

B. Seed and Backroll Method

1. Primer: Where required, apply 1/3 gallon per 100 square feet (300 sf/gal) to all concrete surfaces in strict accordance with procedures outlined by NEOGARD®. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, reprime.
2. Base Coat: Apply 1-2/3 gallons per 100 square feet (60 sf/gal) of elastomeric base coat to deck surfaces in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
3. Heavy Duty Areas (Turns, ramps, etc.): Apply 1 gallon per 100 square feet (100 sf/gal) of elastomeric topcoat in strict accordance with procedures outlined by NEOGARD® and immediately broadcast aggregate, evenly distributed, into wet coating at the rate of 10 to 15 pounds per 100 square feet. Note: For parking stalls and non-heavy duty service, skip this step and proceed to item #4.
4. Topcoat: When previous coating application is dry, recoat surface with 1-2/3 gallons per 100 square feet (60 sf/gal) of elastomeric topcoat and immediately

broadcast aggregate at a rate of approximately 15 to 18 pounds per 100 square feet and backroll to encapsulate aggregate. Total system coating thickness for heavy duty areas will average 52 dry mils exclusive of aggregate. All other areas will average 40 dry mils exclusive of aggregate.

*Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.

3.5 PROTECTION

- A. After completion of application, do not allow traffic on coated surfaces for a period of at least 48 to 72 hours at 75°F. and 50% R.H., or until completely cured.

END OF SECTION

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NEOGARD®
Div. of JONES-BLAIR®

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ATTACHMENT

“B”

**Guide Specification****PART 1 GENERAL****1.1 SUMMARY**

- A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied vehicular traffic coating system as outlined in this specification to new or existing concrete surfaces.
- B. The manufacturer's application instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Sections:
 1. Section 03 30 00 - Cast-in-Place Concrete
 2. Section 03 40 00 - Precast Concrete
 3. Section 07 90 00 - Joint Protection

1.2 SYSTEM DESCRIPTION

- A. AUTO-GARD® FC shall be a complete system of compatible materials supplied by NEOGARD® to create a seamless waterproof membrane.
- B. AUTO-GARD® FC shall be designated for application on the specific type of deck indicated on the drawings.

1.3 SUBMITTALS

- A. Product Data: Submit NEOGARD® product literature and installation instructions.
- B. Project Reference List: Submit list of projects as required by this specification.
- C. Samples: Submit samples of specified vehicular traffic coating system. Samples shall be construed as examples of finished color and texture of the system only.
- D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the vehicular traffic coating system.
- E. Warranty: Submit copy of manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: AUTO-GARD® FC, as supplied by NEOGARD®, is approved for use on this project.

- B. Applicator Qualifications: Applicators shall be approved to install specified system.
- C. Requirement of Regulatory Agencies: Materials used in the vehicular traffic coating system shall meet existing Federal, State and local VOC regulations.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.
- B. Storage and Handling: Recommended material storage temperature is 75°F. Handle products to avoid damage to container. Do not store for long periods in direct sunlight.

1.6 JOB CONDITIONS

- A. Environmental Conditions:
 1. Do not proceed with application of materials when deck temperature is less than 40°F.
 2. Proceed with work only when existing and forecasted weather conditions will permit the application to be performed in accordance with the manufacturer's recommendations.
 3. Do not apply materials unless surface to receive coating is clean and dry.

1.7 WARRANTY

- A. Upon request, NEOGARD® shall offer the manufacturer's standard warranty upon receipt of a properly executed warranty request form.

PART 2 PRODUCTS**2.1 MANUFACTURER**

- A. NEOGARD® Division of JONES-BLAIR® Company, 2728 Empire Central, Dallas, TX 75235, Toll Free (800) 321-6588, Fax (214) 357-7532, www.neogard.com.

2.2 MATERIALS

- A. Vehicular Traffic Coating Material:
 1. Primer: Concrete and metal primers as required by NEOGARD®.
 2. Flashing Tape: 86218 flashing tape having a minimum thickness of 30 mils.
 3. Aggregate: 7992U (12/20 mesh) silica (quartz) sand or other aggregate approved by NEOGARD®.
 4. Elastomeric Base Coat: FC7500/FC7960 polyurethane coating.
 5. Elastomeric Wear Coat: FC7510/FC7961 polyurethane coating.

6. Elastomeric Topcoat (Interior or Covered Use Only): FC7510/FC7961 series polyurethane coating.
7. Elastomeric Topcoat (Exterior Use): FC7520/FC7962 or FC7540/FC7964 series polyurethane coating.
8. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical physical properties of cured vehicular traffic coating system used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM			
PHYSICAL PROPERTIES	TEST METHOD	BASE COAT	TOPCOAT
Tensile Strength	ASTM D412	1,500 psi	2,200-5,000 psi
Elongation	ASTM D412	500%	80-350%
Permanent Set	ASTM D412	<20%	<20%
Tear Resistance	ASTM D1004	150 pli	165-400 pli
Water Resistance	ASTM D471	1% @ 7 days	<=3% @ 7 days
MVT @ 20 mils	ASTM E96	5 English	0.4-1.5 English
Taber Abrasion (cs17), max	ASTM D4060	5 mg/1,000 rev	30 mg/1,000 rev
Shore A	ASTM D2240	74-79	84-94
Adhesion	ASTM D4541	400 psi	400 psi
Thermal Shock	Alternate Heat/Cold	No Loss of Adhesion	No Loss of Adhesion
"Standard Specifications for High Solids Content, Cold-Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface"	ASTM C957	System Exceeds Requirements	

2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, adhesives, reinforcing fabric, backer rod, deck drains, etc. shall be a composite part of the deck system and shall be compatible with the specified vehicular traffic coatings.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Concrete: Verify that the work done under other sections meets the following requirements:
1. That the concrete deck surface is free of ridges and sharp projections. If metal forms or decks are used they should be ventilated to permit adequate drying of concrete on exterior exposed deck.
 2. That the concrete was cured for a minimum of 28 days. (Minimum of 4,000 psi compressive strength). Water-cured treatment of concrete is preferred. The use of concrete curing agents, if any, shall be of the sodium silicate base only; others require written approval by NEOGARD®.
 3. That the concrete was finished by a power or hand steel trowel followed by soft hair broom to obtain light texture or "sidewalk" finish.
 4. That damaged areas of the concrete deck be restored to match adjacent areas. Use 100% solids epoxy and sand for filling and leveling.

3.2 PREPARATION

A. Surface Preparation:

1. Cleaning: Surfaces contaminated with oil or grease shall be vigorously scrubbed with a power broom and a strong non-sudsing detergent. Thoroughly wash, clean, and dry. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
2. Shot Blasting: Required surface preparation method for remedial construction, is also the preferred method for new construction. Mechanically prepare surface by shot blasting to industry standard surface texture (ICRI's CSP3-4) without causing additional surface defects in deck surface. Shot blasting does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to insure proper bonding of the deck coating. Note: If shot blasting is not practical, treat concrete surfaces with 10% to 15% solution of muriatic acid to remove laitance and impurities. After acid has stopped foaming or boiling, immediately rinse thoroughly with water. Re-rinse as required to remove muriatic acid solution. Acid etching does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to insure proper bonding of the deck coating.
3. Cracks and Cold Joints: Visible hairline cracks (up to 1/16" in width) in concrete and cold joints shall be cleaned, primed as required and treated with thoroughly mixed FC7500/FC7960 polyurethane coating material a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (over 1/16" in width) shall be routed and sealed with 70991 sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with thoroughly mixed FC7500/FC7960 polyurethane coating material a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
4. Control Joints: Seal secondary control joints with 70991 sealant. Sealant shall be applied to inside area of joint only, not applied to deck surface. Detail sealed joints with thoroughly mixed FC7500/FC7960 polyurethane coating material a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.
5. Flashing Tape: Install 86218 flashing tape where indicated on the drawings and/or where required by the manufacturer prior to the application of elastomeric coating.
6. Surface Condition: Surface shall be clean and dry prior to coating.

3.3 APPLICATION

- A. Seed and Lock Method (Note: For FC7520/FC7962, do not apply heavier than 40 sf/gal. per coat):
1. Primer: Where required, thoroughly mix primer and apply at a rate of 1/3 gallon per 100 square feet (300 sf/gal) to all concrete surfaces in strict accordance with procedures outlined by NEOGARD®. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, reprime.

2. Base Coat: Thoroughly mix FC7500/FC7960 polyurethane coating material and apply at a rate of 1.25 gallons per 100 square feet (80 sf/gal) to deck surfaces in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
3. Wearing Surface Coat: Thoroughly mix FC7510/FC7961 polyurethane coating material and apply at a rate of 1/2 gallon per 100 square feet (200 sf/gal) in strict accordance with procedures outlined by NEOGARD® and immediately broadcast aggregate, evenly distributed, into wet coating at the rate of 10 to 15 pounds per 100 square feet.
4. Topcoat: When dry, remove excess aggregate and recoat surface with thoroughly mixed FC7510/FC7961 for interior or covered use areas. For exterior applications exposed to ultraviolet (UV) light, use FC7520/FC7962 or FC7540/FC7964 polyurethane coating material at a rate of 3/4 gallon per 100 square feet (133 sf/gal) in strict accordance with procedures outlined by NEOGARD®. Total system coating thickness averages 40 dry mils exclusive of aggregate.
5. Double-Texturing: For heavy traffic areas such as ticket booths, spiraled ramps, turn areas, or in other areas subjected to extremely high traffic abrasion, double-texturing is required. In such areas, apply double-texture as follows: After the wearing surface coat to receive aggregate has cured and loose aggregate removed, thoroughly mix FC7510/FC7961 polyurethane coating material and apply at a rate of 3/4 gallon per 100 square feet (133 sf/gal) in strict accordance with procedures outlined by NEOGARD® and immediately broadcast additional aggregate, evenly distributed, into wet coating at the rate of 10 to 15 pounds per 100 square feet. When dry, remove excess aggregate and recoat surface with thoroughly mixed FC7510/FC7961 for interior or covered use areas. For exterior applications exposed to ultraviolet (UV) light, use FC7520/FC7962 or FC7540/FC7964 polyurethane coating material at a rate of 3/4 gallon per 100 square feet (133 sf/gal) in strict accordance with procedures outlined by NEOGARD®. Double-textured areas will yield an average of 52 dry mils exclusive of aggregate.

*Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

B. Seed and Backroll Method (Note: For FC7520/FC7962, do not apply heavier than 40 sf/gal, per coat):

1. Primer: Where required, thoroughly mix primer and

apply at a rate of 1/3 gallon per 100 square feet (300 sf/gal) to all concrete surfaces in strict accordance with procedures outlined by NEOGARD®. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, reprime.

2. Base Coat: Thoroughly mix FC7500/FC7960 polyurethane coating material and apply at a rate of 1.25 gallons per 100 square feet (80 sf/gal) in strict accordance with procedures outlined by NEOGARD®. Extend base coat over cracks and control joints which have received treatment.
3. Heavy Duty Areas (Turns, ramps, etc.): Thoroughly mix FC7510/FC7961 polyurethane coating material and apply at a rate of 3/4 gallon per 100 square feet (133 sf/gal) in strict accordance with procedures outlined by NEOGARD® and immediately broadcast aggregate, evenly distributed, into wet coating at the rate of 10 to 15 pounds per 100 square feet. Note: For parking stalls and non-heavy duty service, skip this step and proceed to item #4.
4. Topcoat: When previous coating application is dry, recoat surface with thoroughly mixed FC7510/FC7961 for interior or covered use areas. For exterior applications exposed to ultraviolet (UV) light, use FC7520/FC7962 or FC7540/FC7964 polyurethane coating material at a rate of 1.25 gallons per 100 square feet (80 sf/gal) and immediately broadcast aggregate at a rate of approximately 15 to 18 pounds per 100 square feet and backroll to encapsulate aggregate. Total system coating thickness for heavy duty areas will average 52 dry mils exclusive of aggregate. All other areas will average 40 dry mils exclusive of aggregate. *Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.

3.5 PROTECTION

- A. After completion of application, do not allow traffic on coated surfaces for a period of at least 24 - 36 hours at 75°F. and 50% R.H., or until completely cured.

END OF SECTION

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