



**WALKER**  
RESTORATION CONSULTANTS

SPECIFICATIONS

HUNTINGTON TRI-  
STATE AIRPORT  
SURFACE LOT  
RESTORATION  
HUNTINGTON, WV

**SEPTEMBER 2017**

Prepared for:  
HUNTINGTON TRI-STATE AIRPORT

ISSUED FOR BIDDING

## SECTION 1 - INVITATION TO BID AND INSTRUCTIONS TO BIDDER

### 1. PROJECT IDENTIFICATION AND DEFINITIONS

- A. Owner will receive sealed Bids for:

Huntington Tri-State Airport  
Surface Lot Restoration

- B. Owner is:

Huntington Tri-State Airport.  
1449 Airport Road  
Huntington, WV 25704

- C. Engineer/Architect is:

Walker Restoration Consultants  
6602 East 75<sup>th</sup> Street, Suite 210  
Indianapolis, IN 46250

- D. Project consists of:

1. Project consists of providing all materials, labor, equipment, supervision, and services required to perform identified paving, restriping and associated work at the Huntington Tri-State Airport in accordance with the Contract Documents.

- E. Owner will receive Bids as follows:

- F. Bids will be due on:

**Wednesday, September 27, 2017 at 1:00 pm Eastern**

Via email to [jbrienza@tristateairport.com](mailto:jbrienza@tristateairport.com),

with copy to [Justin.riley@walkerrestoration.com](mailto:Justin.riley@walkerrestoration.com) .

### 2. DOCUMENTS

- A. Contract between Owner and Contractor: Contract Documents listed in Agreement. Also see Section "Agreement Form."
- B. Complete sets of Bidding Documents shall be used in preparing Bids. Neither Owner nor Engineer/Architect assume any responsibility for errors or misinterpretations resulting from use of incomplete sets of Bidding Documents.

- C. Owner and Engineer/Architect in making copies of Bidding Documents available on above terms do so only for purpose of obtaining Bids on Work and do not confer license or grant for any other use.

### **3. QUALIFICATIONS OF BIDDERS**

- A. Owner may make such investigation as it deems necessary to determine ability of Bidder to perform Work, and Bidder shall furnish to Owner all such information and data for this purpose as Owner may request. Owner reserves right to reject any Bid if evidence submitted by, or investigation of, such Bidder fails to satisfy Owner that such Bidder is properly qualified to carry out obligations of Contract and to complete Work contemplated therein. Conditional Bids and voluntary alternates will not be accepted.
- B. Bidding firms will not be considered qualified if:
  - 1. Firm, or principals thereof, have defaulted on any contract, bid or bond within preceding 36 months, or;
  - 2. Firm has had no previous experience in performance of Work being bid, or;
  - 3. Firm, as name entitled, has not been in operation in this type of Work for period of 24 months prior to this bid date, or;
  - 4. Firm has not been awarded any prior contracts of similar amount and kind, or;
  - 5. Firm, or principals thereof, have failed in faithful performance during warranty or guarantee period on previous Work.
  - 6. Firm is found to have misstated or omitted any material fact in this prequalification statement.
- C. Each Bidder may be called upon to provide Owner with following information:
  - 1. Comprehensive financial statement showing current balance of unencumbered net worth equal to at least 10% of value of anticipated bid price.
  - 2. Comprehensive list of personnel and equipment available for performance of Work to be bid.
  - 3. Complete list of all contract work performed, or under construction if contract(s) awarded within previous 5 yr period prior to bidding.

### **4. EXAMINATION OF CONTRACT DOCUMENTS AND SITE**

- A. Bidders shall carefully examine contract documents and site to obtain first-hand knowledge of existing conditions. No subsequent extras will be allowed due to any claim of lack of knowledge for conditions which can be determined by examining site and contract documents.
- B. Extent of repairs is approximately represented on Drawings. Actual locations and extent of repair may deviate from that represented on Drawings based on field conditions.
- C. Submission of Bid shall constitute warranty that:

1. Bidder and all Subcontractors it intends to use have carefully and thoroughly reviewed Contract Documents and have found them complete and free from ambiguities and sufficient for purposes intended; further that,
  2. Bidder and all workers, employees and Subcontractors it intends to use are skilled and experienced in type of construction represented by Contract Documents bid upon; further that,
  3. Neither Bidder nor any of its employees, agents, suppliers or Subcontractors have relied on any verbal representations from Owner, Engineer/Architect, or any of their employees, agents, or consultant, in assembling Bid figure; and further that,
  4. Bid figure is based solely on Contract Documents, including properly issued written addenda, and not upon any other written representation.
- D. Bidder shall identify, prior to bid, all errors and/or discrepancies in Contract Documents that would be apparent to reasonably diligent Bidder. In no case shall Bidder, if selected as Contractor, be permitted any extra amount of time or money to complete project, or expenses incurred as result of such errors or discrepancies.

## **5. RESOLUTION OF DISCREPANCIES AND AMBIGUITIES**

- A. All questions about meaning or intent of Contract Documents shall be submitted to Engineer/Architect in writing. Address written inquiries to:

Justin Riley  
Assistant Project Manager  
Walker Restoration Consultants  
6602 East 75<sup>th</sup> Street, Suite 210  
Indianapolis, IN 46250  
317.842.6890  
Justin.riley@walkerrestoration.com

Replies will be issued by Addenda emailed or delivered to all parties recorded by Engineer/Architect as having received Contract Documents for Bidding. Questions received less than 5 days prior to date for opening of Bids will not be answered. Only answers contained in formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

- B. Any Addendum issued during prebid period shall be included in Bid, shall become part of Contract Documents, and shall be acknowledged on Bid Form.

## **6. SUBSTITUTED MATERIAL AND EQUIPMENT**

- A. Contract, if awarded, will be on basis of material and equipment described in Drawings or specified in Specifications without consideration of possible substitute or "or-equal" items. Whenever it is indicated in Drawings or specified in the Specifications that substitute or "or-equal" item of material or equipment may be furnished or used by Contractor if acceptable to Engineer/Architect, application for such acceptance will not be considered by Engineer/Architect until after "effective date of Agreement."

- B. In advance of Notice of Award, apparent successful Bidder, and any other Bidder so requested, will within seven days after day of Bid Opening submit to Owner list of substitutions proposed for products or materials specified for Project. After Award of Contract, procedure for submittal of any such application by Contractor and consideration by Engineer/Architect is set forth in Division 1 Sections, "Product Requirements" and "Product Substitution Procedures."

## **7. BASIS FOR BIDS**

- A. Bids are based on lump sum contract at unit prices. Work Item quantities are based on Engineer/Architect's estimates.

## **8. PREPARATION OF BIDS**

- A. Bid Form is bound herewith. Bid Forms must be completed in ink or by typewriter.
- B. Bids must be made in form given in this Project Manual. No oral, telephonic or telegraphic Bids will be considered. Bids shall be signed by Bidder giving full name and business address. State whether Bidder is individual, partnership or corporation.
- C. Each Bidder shall fill in all blanks on Bid Forms and quote on all alternates required. State all quotations in words and figures. In case of discrepancy between amount stated in words and amount stated in figures, amount stated in words shall govern. Entire Bid shall be without interlineation, alteration or erasure.
- D. Bids by corporations shall be executed in corporate name by president, vice-president or other corporate officer (accompanied by evidence of authority to sign) and corporate seal shall be affixed and attested by secretary or assistant secretary. Corporate address and state of incorporation shall be shown below signature.
- E. Bids by partnerships shall be executed in partnership name and signed by partner. Partner's title must appear under partner's signature and official address of partnership must be shown below signature.
- F. Bids not signed by individuals making them shall have attached thereto power of attorney evidencing authority to sign Bid in name of person for whom it is signed.
- G. All names must be typed or printed legibly below signature.

## **9. IDENTIFICATION AND SUBMISSION OF BIDS**

- A. Bids shall be submitted electronically to email addresses indicated in Section 1.G. Subject line shall indicate project name and identify bidder.

## **10. GOVERNING LAWS AND REGULATIONS**

- A. No Contractor shall discriminate against any employee or applicant for employment, to be employed in performance of contract, with respect to their hire, tenure, terms, conditions or privileges of employment, because of their race, color, religion, gender, national origin or age pursuant to requirements of all applicable federal and state statutes.
- B. Each Bidder shall make affidavit that its Bid is genuine and not sham or collusive or made in interests or on behalf of any person not therein named and that Bidder has not directly or indirectly induced or solicited any Bidder to put in sham Bid or any other person or corporation to refrain from Bidding, and that Bidder has not in any manner sought by collusion to secure itself an advantage over other Bidders.

## **11. CONTRACT TIME**

- A. Time is of essence in performance of Work under this Contract. Available time for Work under this Contract is indicated in Bid Form and will be included in the executed Agreement. If these time requirements cannot be met, Bidder is requested to stipulate in Bid schedule for performance of Work. Consideration will be given to time in evaluating Bids.

## **12. DISQUALIFICATION OF BIDDERS**

- A. Prior to opening of Bids Owner reserves right to conduct investigations into qualifications and experience of any or all persons or organizations wishing to submit Bid for Project.
- B. Based upon findings of such investigations, Owner reserves right to deny any or all persons or organizations opportunity to submit Bid for Project.
- C. In evaluating Bids after Bids are opened and prior to Award of Contract, Owner shall consider qualifications of Bidders, whether or not Bids comply with prescribed requirements, and alternates and unit prices if requested in Bid Forms.
- D. Owner may consider qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish principal items of material or equipment) proposed for those portions of Work as to which identity of Subcontractors and other persons and organizations must be submitted as provided in Section "Supplementary Conditions." Operating costs, and maintenance considerations, performance data and guarantees of materials and equipment may also be considered by Owner.
- E. Owner may conduct such investigations as it deems necessary to assist in evaluation of any Bid and to establish responsibility, qualifications and financial ability of Bidders, proposed Subcontractors and other persons and organizations to do Work in accordance with Contract Documents to Owner's satisfaction within prescribed time.

- F. Owner reserves right to reject Bid of any Bidder who does not pass any such evaluation to Owner's satisfaction.
- G. Owner reserves right to disqualify Bids before or after opening, upon evidence of collusion with intent to defraud or other illegal practices upon part of Bidder.

**13. BIDS TO REMAIN OPEN**

- A. All Bids shall remain open for 60 days after Bid opening, but Owner will release all except 3 lowest Bids within 7 days after Bid opening.

**14. AWARD OF CONTRACT**

- A. Owner reserves right to reject any and all Bids, to waive any and all informalities and to negotiate contract terms with Successful Bidder, and right to disregard all nonconforming, nonresponsive or conditional Bids and to make award in any manner deemed in best interest of Owner. Discrepancies between words and figures will be resolved in favor of words. Discrepancies between indicated sum of any column of figures and correct sum thereof will be resolved in favor of correct sum.
- B. In evaluating Bids, Owner shall consider qualifications of Bidders, whether or not Bids comply with prescribed requirements, and alternates and unit prices if requested in Bid Forms.
- C. If contract is to be awarded it will be awarded to Bidder whose evaluation by Owner indicates to Owner that award will be in best interests of Project.
- D. If contract is to be awarded, Owner will give Successful Bidder Notice of Award within 60 days after day of Bid opening.

**15. EXECUTION OF CONTRACT**

- A. When Owner gives Notice of Award to Successful Bidder, it will be accompanied by at least 3 unsigned counterparts of Agreement and all other Contract Documents. Within 15 days thereafter Contractor shall sign and deliver at least 3 counterparts of Agreement to Owner with all other Contract Documents attached. Within 10 days thereafter Owner will deliver all fully signed counterparts to Contractor. Engineer/Architect will identify those portions of Contract Documents not fully signed by Owner and Contractor and such identification shall be binding on all parties.

**16. CONTRACT PRICE**

- A. Proposals are solicited on basis of unit prices and/or lump sum prices which are to be clearly set forth in Bid Form. Final Contract price on accepted Proposal will be determined by multiplying number, or fraction thereof, units of Work actually performed, or labor, material or appliances actually supplied, by price designated for such item in

Proposal. Total Bid figure on Proposal Form is merely for purposes of estimating and comparing costs and under no circumstances on unit price contracts does it constitute or imply total Contract price. Refer to Section "Supplementary Conditions" for adjustments due to increases or decreases in actual quantities constructed.

**END OF SECTION 1**

© Copyright 2017. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Walker Restoration Consultants.



Name of Bidder \_\_\_\_\_

**SECTION 2 - BID FORMS**

**PART 1 - TERMS OF BID**

PROJECT IDENTIFICATION: Huntington Tri-State Airport  
Surface Lot Restoration

THIS BID IS SUBMITTED TO: Huntington Tri-State Airport

- A. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in form included in Contract Documents to complete all Work as specified or indicated in Contract Documents for Contract Price and within Contract Time indicated in this Bid and in accordance with Contract Documents.
- B. BIDDER accepts all of terms and conditions of Instructions to Bidders, including without limitation those dealing with disposition of Bid Security. BIDDER will sign Agreement and submit Contract Security and other documents required by Contract Documents within 15 days after date of OWNER's Notice of Award. This Bid will remain open for 60 days after day of Bid opening.
- C. In submitting this Bid, BIDDER represents, as more fully set forth in Agreement, that:
  - 1. BIDDER has examined copies of all Contract Documents and of following addenda:

| Date  | Number |
|-------|--------|
| _____ | _____  |
| _____ | _____  |
| _____ | _____  |
| _____ | _____  |

- (Receipt of all of which is hereby acknowledged) and also copies of Instructions to Bidders.
- 2. BIDDER has examined site and locality where Work is to be performed, legal requirements (federal, state and local laws, ordinances, rules and regulations) and conditions affecting cost, progress or performance of Work and has made such independent investigations as BIDDER deems necessary.
  - 3. This Bid is genuine and not made in interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; BIDDER has not directly induced or solicited any other Bidder to submit false or sham Bid; BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER; and

Name of Bidder \_\_\_\_\_

4. BIDDER agrees that Work Item quantities are estimates and that OWNER may increase or decrease these quantities at unit prices stated, so long as increases or decreases in Base Bid do not exceed 25% of Base Bid price.

5. OWNER reserves right to delete any section of Work.

D. BIDDER agrees that Work shall be substantially completed on or before

\_\_\_\_\_, 20 \_\_\_\_

and fully completed by

\_\_\_\_\_, 20 \_\_\_\_

E. BIDDER will complete Work for following price(s) based on unit prices stated in Section 3:

LUMP SUM CONTRACT PRICE \_\_\_\_\_  
(use words)

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_  
(figures)

F. BIDDER will complete Work for the prices shown in Section "List of Unit Prices."

G. Communications concerning this Bid shall be addressed to: (BIDDER to provide bidder's name, address, telephone number and name of individual familiar with this Bid and able and authorized to answer questions regarding this Bid.)

\_\_\_\_\_  
\_\_\_\_\_

H. Terms used in this Bid which are defined in General Conditions of Construction Contract included as part of Contract Documents have meanings assigned to them in General Conditions.

SUBMITTED ON \_\_\_\_\_, 20 \_\_\_\_

**PART 2 - ATTACHMENTS**

Following documents are attached to and made condition of this Bid, unless noted otherwise:

A. List of Unit Prices.

B. Non-Collusion Affidavit.

Name of Bidder \_\_\_\_\_

**PART 3 - SIGNATURES**

If BIDDER is:

**An Individual**

By \_\_\_\_\_ (SEAL)  
(Individual's Name)

doing business as \_\_\_\_\_

Business Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

**A Partnership**

By \_\_\_\_\_ (SEAL)  
(Firm Name)

\_\_\_\_\_

\_\_\_\_\_

(General Partner)

Business Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

Name of Bidder \_\_\_\_\_

**A Corporation**

By \_\_\_\_\_  
(Corporation Name)

\_\_\_\_\_  
(State of Incorporation)

By \_\_\_\_\_  
(Name of Person Authorized to Sign)

\_\_\_\_\_  
(Title)

**(Corporate Seal)**

Attest \_\_\_\_\_  
(Secretary)

Business Address: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

**A Joint Venture**

By \_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address)

By \_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address)

*Each joint venture member must sign. The manner of signing for each individual partnership and corporation that is party to joint venture should be in manner indicated above.*

**END OF SECTION 2**

© Copyright 2017. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Walker Restoration Consultants.

Name of Bidder \_\_\_\_\_

**SECTION 3 – PROCUREMENT FORM SUPPLEMENTS-RESTORATION**

**1. LIST OF UNIT PRICES**

State Unit Prices on the following forms.

**HUNTINGTON TRI-STATE AIRPORT**

**400 SPACE SURFACE LOT**

| WORK ITEM | DESCRIPTION                 | UNITS | QUANTITY | UNIT PRICE   | TOTAL |
|-----------|-----------------------------|-------|----------|--------------|-------|
| 1         | GENERAL CONDITIONS          | L.S.  | 1        |              |       |
| 11.1      | SEAL CRACKS                 | L.F.  | 4,200    |              |       |
| 12.1      | BITUMINOUS ASPHALT PATCHING | S.F.  | 500      |              |       |
| 12.4      | BITUMINOUS ASPHALT NEW      | S.F.  | 3,525    |              |       |
| 12.6      | ASPHALT SEALCOAT            | S.F.  | 152,000  |              |       |
| 45.1      | LINE STRIPING               | EA.SP | 402      |              |       |
|           |                             |       |          | <b>TOTAL</b> |       |

**CAR RENTAL LOT**

| WORK ITEM | DESCRIPTION                 | UNITS | QUANTITY | UNIT PRICE   | TOTAL |
|-----------|-----------------------------|-------|----------|--------------|-------|
| 11.1      | SEAL CRACKS                 | L.F.  | 700      |              |       |
| 12.1      | BITUMINOUS ASPHALT PATCHING | S.F.  | 525      |              |       |
| 12.6      | ASPHALT SEALCOAT            | S.F.  | 20,100   |              |       |
| 45.1      | LINE STRIPING               | EA.SP | 75       |              |       |
|           |                             |       |          | <b>TOTAL</b> |       |

**MANAGERS LOT**

| WORK ITEM | DESCRIPTION                 | UNITS | QUANTITY | UNIT PRICE   | TOTAL |
|-----------|-----------------------------|-------|----------|--------------|-------|
| 11.1      | SEAL CRACKS                 | L.F.  | 400      |              |       |
| 12.1      | BITUMINOUS ASPHALT PATCHING | S.F.  | 45       |              |       |
| 12.6      | ASPHALT SEALCOAT            | S.F.  | 5,000    |              |       |
| 45.1      | LINE STRIPING               | EA.SP | 12       |              |       |
|           |                             |       |          | <b>TOTAL</b> |       |

Name of Bidder \_\_\_\_\_

Description of Abbreviations:

L.F. = Linear Feet  
EA SP = Each Space  
S.F. = Square Feet  
L.S. = Lump Sum

**2. NON-COLLUSION AFFIDAVIT**

Bidder, by its officers and its agents or representatives present at the time of filing this Bid, being duly sworn on their oaths say, that neither they nor any of them have in any way, directly or indirectly, entered into any arrangement or agreement with any other Bidder, or with any officer of Huntington Tri-State Airport Authority., whereby such affiant or affiants or either of them has paid or is to pay such other Bidder or officer any sum of money, or has given or is to give to such other Bidder or officer anything of value whatever, or such affiant or affiants or either of them has not directly or indirectly, entered into any arrangement or agreement with any other free competition into the letting of the contract sought for by the attached Bids that no inducement of any form or character other than that which appears on the face of the Bid will be suggested, offered, paid or delivered to any person whomsoever to influence the acceptance of the Bid or awarding of the Contract, nor has this Bidder any agreement or understanding of any kind whatsoever, with any person whomsoever to pay, deliver to, or share with any other person in any way or manner, any of the proceeds of the Contractor sought by this Bid.

Submitted By:

Type or print firm name:

\_\_\_\_\_

Authorized Signature

\_\_\_\_\_

Date

\_\_\_\_\_

**END OF SECTION 3**

© Copyright 2017. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Walker Restoration Consultants.

## **SECTION 4 - WORK ITEMS**

### **PART 1 - GENERAL**

#### **RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions apply to this Section.

### **PART 2 - EXECUTION**

#### **WI 1.0 GENERAL REQUIREMENTS**

- A. Scope of Work
  - 1. Work consists of performing all tasks, specifically required and incidental, which are not identified under separate Work Item designation, but necessary to perform the work identified in this project. This work includes, but is not limited to the following items:

WI 1.1 - Mobilization

#### **WI 1.1 PROJECT MOBILIZATION**

- A. Scope of Work
  - 1. Work consists of coordinating, scheduling, obtaining and assembling at construction site all equipment, materials, permits, supplies, manpower and other essentials and incidentals necessary to perform Work defined in this Contract. Payment of lump sum amount for mobilization shall be according to following schedule and shall be based on percentage of original contract amount earned.
- B. Materials
  - 1. None
- C. Execution
  - 1. At execution of agreement by all parties, mobilization payment shall not be more than 25% of mobilization lump sum amount.
  - 2. When billing amount earned is greater than 10% but less than 25% of original contract amount, total payment for mobilization shall not be more than 50% of mobilization lump sum amount.

3. When billing amount earned is equal to or greater than 25% but less than 50% of original contract amount, total payment for mobilization shall not be more than 75% of mobilization lump sum amount.
4. When billing amount earned is equal to or greater than 50% of original contract amount, total payment for mobilization shall be 100% of mobilization lump sum amount.

#### **WI 11.1 SEAL CRACKS AND JOINTS**

##### **A. Scope of Work**

1. Work consists of furnishing all labor, materials, equipment, supervision and incidentals necessary to locate, prepare and seal random cracks in the surface lots. Refer to Detail 11.1 for specific requirements.

##### **B. Execution**

1. Contractor shall thoroughly clean and inspect all cracks within the limits of the surface lots. Those identified as either greater than 0.03 in. wide shall be sealed.
2. Cracks shall be ground or sawcut to an adequate width and depth as required by Work Item Detail. Routing shall be performed by mechanized device that has positive mechanical control over depth and alignment of cut. Cavities shall be thoroughly cleaned by either sandblasting or grinding to remove all laitance and curing compounds which may interfere with adhesion. Groove shall be air blasted to remove remaining debris.
3. Sealant materials and installation procedures shall be in accordance with referenced specifications for selected material.

#### **WI 12.1 BITUMINOUS ASPHALT PATCHING**

##### **A. Scope of Work**

1. Work consists of furnishing all labor, materials, equipment, supervision and incidentals necessary to locate the Work, sawcut, remove, dispose and replace all bituminous asphalt, associated concrete, aggregate base material, and soils related to the Work Item. Refer to Detail Series 12.0 for specific requirements.

##### **B. Execution**

1. Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches into perimeter of adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.



2. Before placing patch material, apply tack coat uniformly to vertical asphalt surfaces abutting the patch. Apply at a rate of 0.05 to 0.15 gal./sq. yd.
  - a. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
  - b. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
3. Placing Patch Material: Fill excavated pavement areas with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.
4. Placing Patch Material: Partially fill excavated pavements with hot-mix asphalt base mix and, while still hot, compact. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.
5. The Work shall be completed according to all local government requirements for providing pedestrian barriers, signage, traffic control, and protective barriers from vehicles.
6. Excavations shall be protected from traffic, vibration, loading, and weather related conditions until such time as the Work is complete.

#### **WI 12.4 BITUMINOUS PAVEMENT - NEW**

##### **A. Scope of Work**

1. Work consists of furnishing all labor, materials, equipment, supervision and incidentals necessary to locate the Work, provide specified materials, prepare and compact existing soils, base aggregates, subbase aggregates, and bituminous asphalt as indicated in Drawings. Refer to Detail Series 12.0 for specific requirements.

##### **B. Execution**

1. Contractor shall coordinate all Work with the Owner representatives.
2. The Work shall be completed according to all local government requirements for providing pedestrian barriers, signage, traffic control, and protective barriers from vehicles.

#### **WI 12.6 ASPHALT SEAL COAT**

##### **A. Scope of Work**

1. Work consists of furnishing all labor, materials, equipment, supervision and incidentals necessary to locate the Work, prepare all asphalt surfaces in accordance with the manufacturer's recommendations and install a asphalt seal coat over existing asphalt surface.

##### **B. Materials**

1. Sealer shall be an asphalt emulsion sealer, equal to: Sealmaster Pavement "Polymer Modified Masterseal (PMM)", Gemseal "Guardian PM", Neyra "Pave Shield" or Engineer approved equal. Sand content of sealer shall be no more than 3 to 4 pounds per gallon.

C. Execution

1. Existing parking lot shall be swept clean and water blasted, if necessary, to clean ground in dirt prior to applying sealer.
2. Sealer shall cover all existing paint stripes and pavement markings in two coats. If sealer does not cover stripes or markings, an additional coat shall be applied.
3. Cover rate shall be 85 to 95 square feet per gallon.

**WI 45.1 PAINT TRAFFIC MARKINGS**

A. Scope of Work

1. Work consists of furnishing all labor, materials, equipment, supervision and incidentals necessary to locate, layout and paint parking stall stripes, traffic arrows, crosswalks, accessible stall access aisles, curbs, symbols, stop bars and all other required pavement markings.

B. Materials

1. Setfast Acrylic Waterborne Marking Paint, TM 226/227 by Sherwin Williams Company.
2. 100% acrylic waterborne - paint shall be used for white and yellow pavement markings and shall meet requirements of MPI #70.
3. 100% acrylic waterborne paint for special color pavement markings (blue and green,) shall meet requirements of Federal Specification TT-P-1952E. Special color marking materials shall be compatible with the white and yellow pavement markings where they are layered.
4. Color of paint unless noted otherwise on Contract Drawings, shall be white and shall match federal color chip 37925 and daylight directional reflectance (without glass beads) shall not be less than 84% (relative to magnesium oxide) when tested in accordance with Federal Test Method Standard 141, Method 6121.
5. Paint color for blue accessible parking space pavement markings, if shown on Contract Drawings, shall match federal color chip No. 35180. Color shall have daylight directional reflectance (without glass beads) of not less than 52% (relative to magnesium oxide) when tested in accordance with Federal Test Method Standard 141, Method 6121.
6. Paint color for green special-use parking space pavement markings, if shown on Contract Drawings, shall match federal color chip No. 34108. Color shall have

daylight directional reflectance (without glass beads) of not less than 52% (relative to magnesium oxide) when tested in accordance with Federal Test Method Standard 141, Method 6121.

7. Use Glass Beads (Spheres) in all pavement markings except stall striping lines. Conform to Federal Specification TT-B-1325D, Type I. Broadcast beads into markings at rate not less than 6 lbs. per gallon of paint.

C. Execution

1. Apply paint in 2-coat system; first coat shall be 50% of total 15 wet mil minimum thickness, not to exceed 8 mils. First coat shall be cured prior to installation of second coat.
  - a. Two coat system total wet mil thickness of 0.015 in (0.381 mm).
  - b. Two coat system total wet mil thickness of 0.018 to 0.025 in (0.457 – 0.635 mm) When Type IVA beads are used.
  - c. Two coat system total wet mil thickness of 0.015 to 0.018 in (0.381 – 0.457 mm) When Type IVB beads are used.
2. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
3. Do not paint or finish any surface that is wet or damp.
4. All lines shall be 4-inches wide unless otherwise noted.
5. Clean substrates of substances that could impair bond of paints, including dirt, dust, oil, grease, and incompatible paints and encapsulants.