PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section includes specifications for providing asphaltic concrete paving for the Los Angeles Department of Water and Power (LADWP) at Distribution Station 144 located at 1140 Palmetto St. Los Angeles, Ca 90012. The asphaltic concrete paving in general shall be City of LA approved mixes and shall include one 2 Inch lift of Class C2 - PG-64-10 over a 4 inch lift of Class B (B-Mix) PG 64-10 (SSPWC 203-1 and the Brown Book) for an cumulative total of 6 inches over a prepared crushed aggregate base.

1.02 REFERENCE STANDARDS

A. Comply with local regulations if more stringent than provided in these specifications.


1.03 SUBMITTALS

A. Mix Design: Submit proposed mix design for each asphaltic concrete mixture proposed. Include test data in support of each proposed mix design.

B. Test Reports: Submit test results of sampling and testing, and inspection records within 24 hours of placing the asphaltic paving.

1.04 PROTECTION

A. Protect concrete pavements, walks, curbs and bases, and other improvements adjacent to the operations with suitable materials. The Contractor shall be responsible for any damage caused by the Contractor's employees or equipment, and shall make necessary repairs. Buildings and other surfaces shall be covered with paper or other protection, where required. All damage caused by the Contractor's operations shall be repaired or replaced as required.

PART 2 - PRODUCTS

2.01 TACK COATS

A. Tack Coat: The Tack Coat shall meet the requirements of the SSPWC and the “Brown Book”. Diluted SS-1 or SS-1h emulsion or Grade AR-1000 paving asphalt, shall be in conformance with Subsection 302-5.4 of the SSPWC
2.02 ASPHALT PAVING MATERIALS

A. Paving Asphalt: Plant mix hot-lay asphalt concrete shall consist of 2 inches C2--PG-64-10 over 4 inches of Class B PG 64-10. The mix shall meet the requirements of Subsection 203-1 of the SSPWC and the "Brown Book"

B. Aggregates: Aggregates shall meet the requirements of Subsection 203-6.3.2 of the SSPWC and the "Brown Book"

C. Mixing Facilities: Asphalt concrete surfacing material shall be furnished from an LA City approved commercial asphalt central mixing plant and shall conform to SSPWC 203-6.7 and the "Brown Book". The list of certified approved Asphalt products for use in the public right of way within the City of Los Angeles can be found here: http://boe.lacity.org/apm/.

The asphalt mixing facility shall be one of the approved asphalt concrete mixing plants listed under approved AC (Asphalt Concrete) mix designs.

2.03 MIX DESIGN

A. Design of LA City approved asphaltic concrete mixes SSPWC (203-6.2) and "Brown Book" shall be provided by the Contractor, and shall be obtained from a qualified independent testing laboratory or agency, properly equipped to design asphaltic concrete mixes. Costs of obtaining mix designs shall be at the Contractor's expense.

B. Materials used for paving asphalt or asphaltic concrete mixes shall be included in the design report which shall include aggregate quality and gradation and shall conform to SSPWC 203-1, 203-5.2 and 203-6.3 respectively as modified by the "Brown Book".

2.04 SOURCE QUALITY CONTROL

A. The Contractor shall perform sampling and testing of materials in accordance with the Subsection 203-1.3 of the SSPWC and the "Brown Book"

B. Asphalt Content: Asphalt content shall be within plus or minus 0.45 percent of the mix design content.

PART 3 - EXECUTION

3.01 PLACING ASPHALT CONCRETE

A. Areas to be paved shall be covered with a layer of hot asphalt concrete surfacing not less than the thickness indicated after compaction. Where not indicated, compacted thickness shall be 6 inches minimum.

B. The asphalt concrete shall be placed and rolled in accordance with Subsections 302-5.5 and 302-5.6 of the SSPWC and the “Brown Book”
C. A tack coat shall be applied upon the existing hard surface pavement preceding the placement of the asphalt concrete in accordance with Subsection 302-5.4 of the SSPWC.

D. The asphalt concrete course shall be evenly spread to such a depth that, after rolling, it will be of the specified cross section and within plus or minus 1/8 inch of the grade of the course being constructed.

E. All joints between existing and new asphalt concrete shall be vertical and at right angles to the improvements. The Contractor shall provide these joints when joining any existing asphalt concrete in any area which is not designated on the drawings or indicated for saw cutting. If the paving work is performed in two phases, the Contractor shall be responsible for providing the joint and/or repairing any damage to the joint, or both, resulting from normal traffic between the paving phases.

F. Finish surface of the wearing course shall be thoroughly compacted, smooth, and free from ruts, humps, depressions, cold joints, or other irregularities.

G. Finish paving shall conform to slopes, lines, and finish grades on the plans. Where adjacent surfaces are intended to be flush, they shall conform smoothly at all joints.

H. Ridges, indentations, and other objectionable marks left in the surface of the asphalt concrete by paving or rolling equipment shall be eliminated by rolling. The use of equipment that leaves ridges, indentations, or other objectionable marks in the asphalt concrete shall be discontinued, and other acceptable equipment shall be employed.

I. Where cold joints are indicated or necessary, cut back the placed and compacted cold asphalt a minimum of 3 inches back with a concrete or masonry power saw, so that a vertical face of compacted full thickness material is exposed. Treat this surface with a tack coat before proceeding with the placement of asphaltic concrete surfacing.

J. Finish paving shall conform to finish elevations within plus or minus 0.01 of a foot and shall be level to within plus or minus 1/8 inch in 10 feet when measured with a 10-foot straightedge in any direction.

3.04 FIELD QUALITY CONTROL 304

A. The Contractor shall control the quality of the Work and shall provide adequate testing to assure compliance with these Specifications and all SSPWC specifications referenced in this document.

B. After completion of paving work, all paving shall be flooded with water, and any resulting "ponds" shall be ringed with chalk. Such hollows shall be corrected with the addition of asphalt paving materials and re-rolling until all paving is completely level and free from hollows and high spots.

3.05 MAINTENANCE OF PAVEMENT

A. Upon completion of final rolling, traffic shall not be permitted on the finished pavement for at least six hours, and until the asphalt concrete has cooled sufficiently to withstand traffic without being deformed.
B. Finished pavement shall be maintained in finished clean condition until the Work is accepted by the LADWP. Until the work is accepted the Asphalt Paving shall be maintained and any defects or damage resulting from the contractor shall be repaired.

**PART 4 - STANDARDS**

**4.01 - SPECIFICATIONS and REFERENCES**

A. SSPWC is referenced herein as the Standard Specifications for Public Works Construction 2009 Edition and shall include all latest updates when released.

B. ACI is referenced herein as the American Concrete Institute.

C. LADBS is referenced herein as the Los Angeles Department of Building and Safety.

D. LABC is referenced herein as the Los Angeles Building Code.

E. ASTM is referenced herein as the American Society for Testing and Materials.

F. LADWP is referenced herein as the Los Angeles Department of Water and Power.

G. Q&A is referenced herein as Quality and Assurance.

H. IIPP is referenced herein as the Injury & Illness Prevention Program.

I. CAL/OSHA is herein referenced as the California Occupational Safety and Health Administration.

J. “Brown Book” is referenced herein as the City of Los Angeles Department of Public Works Additions and Amendments to the 2009 Edition of the Standard Specifications for Public Works Construction.

**PART 5 - SAFETY**

**5.01 REQUIREMENTS**

A. The contractor shall comply and require that all subcontractors comply with the requirements specified in Article 4 of section E1, but not limited to, the following:

B. The Contractor shall possess and shall have available at the jobsite, at all times, for inspection by the Engineer, an Injury and Illness Prevention Program (IIPP) complying with CAL/OSHA regulations. In addition, the Contractor shall maintain and utilize personnel protective equipment to include hardhats, safety vests, fall protection, and other systems to provide for a safe work environment. Any CAL/OSHA regulations that the LADWP has implemented where the regulation has been made more stringent shall be followed accordingly.
C. The Contractor shall furnish and require all subcontractors to furnish all necessary safety equipment, including, but not limited to, personnel protective equipment, safety devices and safeguards. These safeguards also include the use of scaffolding provided for the contractor by LADWP construction forces. These scaffold systems shall be inspected by a certified competent person trained and authorized by the LADWP on a daily basis at the start of each shift. No work shall be performed by the contractor personnel until said inspection has been completed. No modifications to any scaffolding system shall be permitted by the contractor’s personnel. All modifications shall be performed by LADWP construction forces that have been trained and certified in scaffold erection and inspection.

D. The LADWP reserves the right to review safety programs and practices and to make recommendations to the Contractor. Any such review or recommendation by the LADWP shall not increase the LADWP’s liability or responsibility and shall not relieve the Contractor from providing a safe work environment and complying with legal requirements.

E. If the LADWP determines that there is a material deviation from any regulatory agency’s requirements or the IIPP that could result in serious injury, the Contractor may be ordered to stop work. Failure by the Contractor to comply with any regulatory agency’s requirements or the Contractor’s IIPP may result in termination of the contract.