

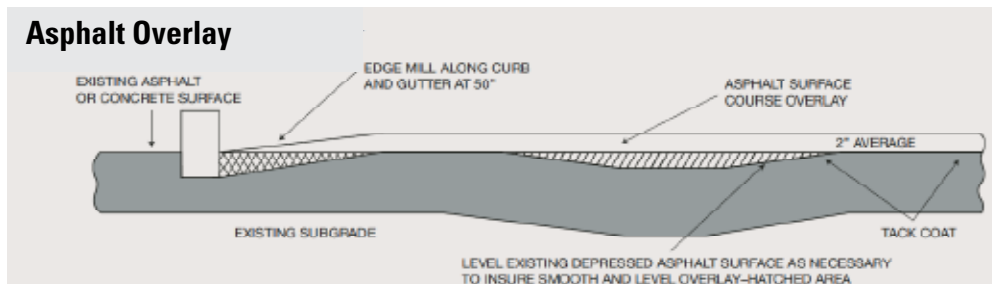
HOT MIX ASPHALT PAVEMENTS

Definitions

1. SURFACE COURSE – The surface / wearing course shall be installed uniformly, to all finished lines and grades, smooth, durable, skid-resistant, impervious thus protecting lower layers, and stable. Surface course shall be a nominal 1”-2” compacted thickness, depending upon the region of the USA and this compacted thickness will be determined by the Facility Manager/Construction Manager, unless otherwise shown on a report engineered, by a geotechnical firm assigned by customer.
2. LEVELING COURSE – Placed on the parking area that requires placement of a variable thickness of HMA to “level” the lot prior to placement of the surface course
3. BASE-COURSE – The lower courses of the pavement structure below the surface and leveling course with a MAS of between 3/4” to 1”. This course is intended to add structural integrity to the overall paving process.
4. TACKING OR PRIMING – Applying emulsified asphalt to all horizontal and vertical surfaces of either an existing pavement for overlay or between lifts of asphalt in repair areas and this will ensure proper bonding of the asphalt surfaces.

Pavement Preparation

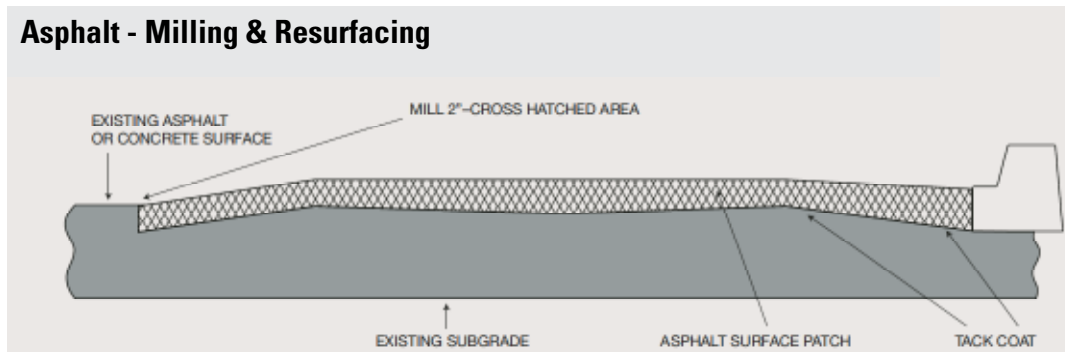
1. Repair pavement failures and perform crack repair according to their respective specification requirements prior to HMA installation.
2. Cold-milling and/or grinding is a method used to ensure that the asphalt edges at concrete abutments such as approaches, sidewalks, curbing, and drainage basins have smooth transitions.
3. Existing surfaces to receive HMA must be clean prior to the installation of any loose debris and oil spots should be removed with wire brushes or other methods to avoid bleeding through the new Hot Mix Pavement.



SCOPE:

Conventional Overlay Pave

1. Lay out mark area of overlay
2. Where asphalt overlay adjoins existing surfaces, provide for a transition.
3. Clean overlay area of vegetation, dirt and surface debris as required. Dispose of all debris offsite.
4. Mechanically apply liquid tack coat to complete area of overlay. Suggested rate is .10 - .15 gallons per yard.
5. Install asphalt to level course material when needed to level any severely depressed areas.
6. Install 2" of hot mix Surface Mix
7. Roll and compact to a tight finish
8. Lay out and stripe entire parking lot
9. Areas with less than two percent (2%) (Pre-Existing), fall are not guaranteed for surface water drainage off of asphalt pavement.
10. Contractors are not responsible for failures in base and pavement due to any underground installation, settlement, of fills, wet weather springs or improper drainage conditions; not for the correction of such conditions determined to exist prior to paving.



SCOPE:

Conventional Overlay Pave

1. Mill designated area to depth of 2" with self-propelled asphalt planner/milling machine
2. Broom clean the entire milled area
3. Level low area using hot mix asphalt rolled and compacted
4. Mechanically apply liquid tack coat to complete area of overlay. Suggested rate is .10 - .15 gallons per yard
5. Install 2" (on average) of hot mix asphalt surface mix to match DOT Specifications in the respective state where the work occurs
6. Roll and compact to a smooth finish
7. Lay out and stripe the entire lot



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Overlay Pave when Augmented with Fabric to Prevent Reflective Cracking of Overlay Surface

Lay out and mark all areas of repair. Where asphalt overlay adjoins existing surfaces, provide for a transition. Clean overlay area of vegetation, dirt and surface debris as required. Dispose of all debris offsite. At areas of severe separation, fill with appropriate material. Install asphalt to level course material when needed to level any severely depressed areas. Mechanically apply liquid asphalt tack coat to surfaces receiving fabric reinforcement and overlay per rate specified for appropriate fabric. Install paving fabric according to manufacturers' specifications. Install 2" average depth of hot mix asphalt surface material. Roll surface to achieve a true and tight finish. Apply a seal of liquid asphalt, when necessary, to the adjoining edges of the overlay to help prevent moisture penetration.

Perma Flex Overlay Pave

1. All potholes and severely deteriorated areas to be patched with hot mix asphalt prior to Perma Flex (and or equivalent) installation.
2. Area to be paved will be swept clean with high velocity blowers.
3. A liquid tack coat will be applied over the area at a rate of .10 - .15 gallons per sq. yard.
4. One inch of Perma Flex (and or equivalent) will be laid with a paving machine over the designated area. The Perma Flex (and or equivalent) will then be rolled to proper compaction.
5. One inch (1") of surface mix asphalt will be laid over the compacted Perma Flex (and or equivalent), then compacted using steel drum and rubber tire rollers. All edges to be feathered and tapered.
6. All work areas will be cleaned, and debris will be removed from job site.
7. Areas with less than two percent (2%) (Pre-Existing), fall are not guaranteed for surface water drainage off of asphalt pavement.
8. Contractors are not responsible for failures in base and pavement due to any underground installation, settlement, of fills, wet weather springs or improper drainage conditions; not for the correction of such conditions determined to exist prior to paving.

Full Depth Asphalt Replacement (5" Minimum or to Existing if Greater to Correct Asphalt Failure)

Note: Entrances and or in Front of Dumpster Enclosures should be 7" or Greater.

PREPARATION

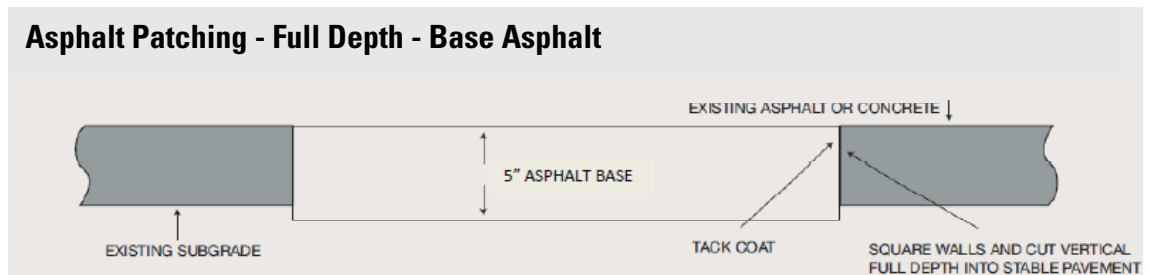
1. Remove surface, base course and sub-grade to reach firm support. Extend at least one (1) foot horizontally into pavement.
2. If after excavating for patching, the sub-base is found to be unsuitable, notify Facility Manager/Construction Manager prior to undercut.
3. Make square or rectangular cuts. Make faces straight and vertical, with one pair of faces, where practical, parallel to the direction of traffic.
4. Trim and compact sub-grade. Compact sub-grade to at least one hundred (100) percent of standard Proctor density or ninety-five (95) percent of modified Proctor density.
5. Tack coat vertical surfaces with ASTM D 2397 or D 3628 asphalt emulsion types SS-1, SS-1h, CSS-1 or CSS-1h diluted with equal parts of water.

REPAIR/RESTORATION

1. Backfill with hot mix, hot laid asphaltic concrete while temperature stays above one hundred eighty five (185) degrees F. Prevent segregation of mixture.
2. Compact in layers, if hole is more than four (4) inches deep. Compact layers thoroughly to maximum of three (3) inches in thickness. Compact with equipment most suited for size of job.
3. Adequate compaction equipment will yield surface of patch at same elevation as the surrounding pavement. When hand tamping or other light compaction methods are required, leave surface of compacted patch slightly higher than adjacent pavement, permitting patch to be further compressed by traffic.
4. Check riding quality and alignment of patch with a straight edge or string line.

CLEANING

1. Broom clean areas of work and remove extra materials from job site.



SCOPE:

5" Asphalt Repair

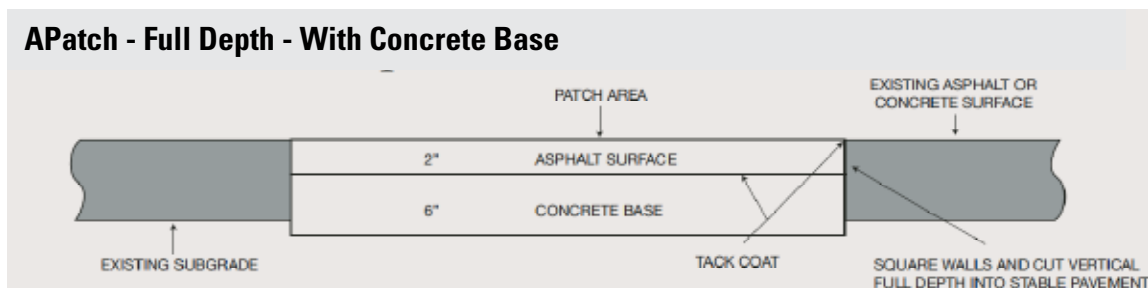
1. Lay out and mark all areas of replacement
2. Excavate areas to be replaced to a depth of 5"
3. Base will then be inspected and proof rolled. If it is deemed necessary by contractor and owners representative to remove and replace base, such replacement will be an extra charge
4. Square surface of replacement and cut walls of repair to produce vertical edges
5. Roll existing sub grade materials to achieve maximum density
6. Mechanically apply liquid asphalt tack coat to all vertical edges of replacement.
7. Install 3" of hot mix asphalt base coat to provide proper binding of the new surface course.
8. Roll asphalt base course to achieve a true, firm finish.
9. Tack coat surface of asphalt base course to provide proper binding of the new surface course.
10. Install 2" of hot mix asphalt surface course material.
11. Roll surface course to achieve a true and firm finish matching existing grade.
12. Apply a seal of liquid asphalt to the adjoining edges of the finished replacement to help prevent moisture penetration.
13. Contractor is not responsible for ponding water or poor drainage in areas where pre-existing grade is less than 2%.

SCOPE:

Surface Overlay Pave Patch:

NOTE: In Areas where low spots or raveling pavement may lead to full depth failure a surface overlay patch is acceptable.

1. All areas to be patched will be cleaned and swept of all dirt and debris, prior to overlay.
2. Areas to be coated with liquid asphalt tack coat at a rate of .08 -.12 gallons per square yard. This will enable the new asphalt to properly adhere to the existing pavement.
3. 1 ½ to 2" of asphalt topping will be laid over the deteriorated area. All edges will be "feathered" down and the patches squared off.
4. The asphalt will then be rolled to proper compaction with 3-5 ton roller.
5. All work will be done in sections so as to minimize traffic interruption, and the contractor will work closely with management to ensure a smooth running job.
6. All debris and unused material will be removed from the job site by the contractor.



SCOPE:

Patch Full Depth with Concrete Base

1. Install 6" of six bag air entrained concrete 3,500 psi to a finished depth of 2" below the top of adjacent surface. Broom finish to insure bonding of surface material
2. Apply uniform coat of curing compound to exposed concrete
3. Mechanically apply liquid tack coat to complete area of overlay. Suggested rate is .10 -.15 gallons per yard
4. Install 2" of hot mix asphalt surface course mix
5. Roll surface to achieve a true and firm finish matching existing grade

SCOPE:

Cement-Treated Recycled Base with Asphalt Surface Course:

1. States such as but not limited to TX/LA/AR/TN pre-existing sub-grade conditions may dictate this process
2. Mill (pulverize) existing failed asphalt pavement and base to a depth of 8 inches.
3. Mix with a minimum of 6% (47 lbs./s.y.) Portland cement and water. Remove excess material and compact base to a minimum thickness of 6.5".
4. Tack edges with an asphaltic material for bonding and pave with Type "D" hot mix asphaltic concrete wearing course to achieve a compacted thickness of 2".