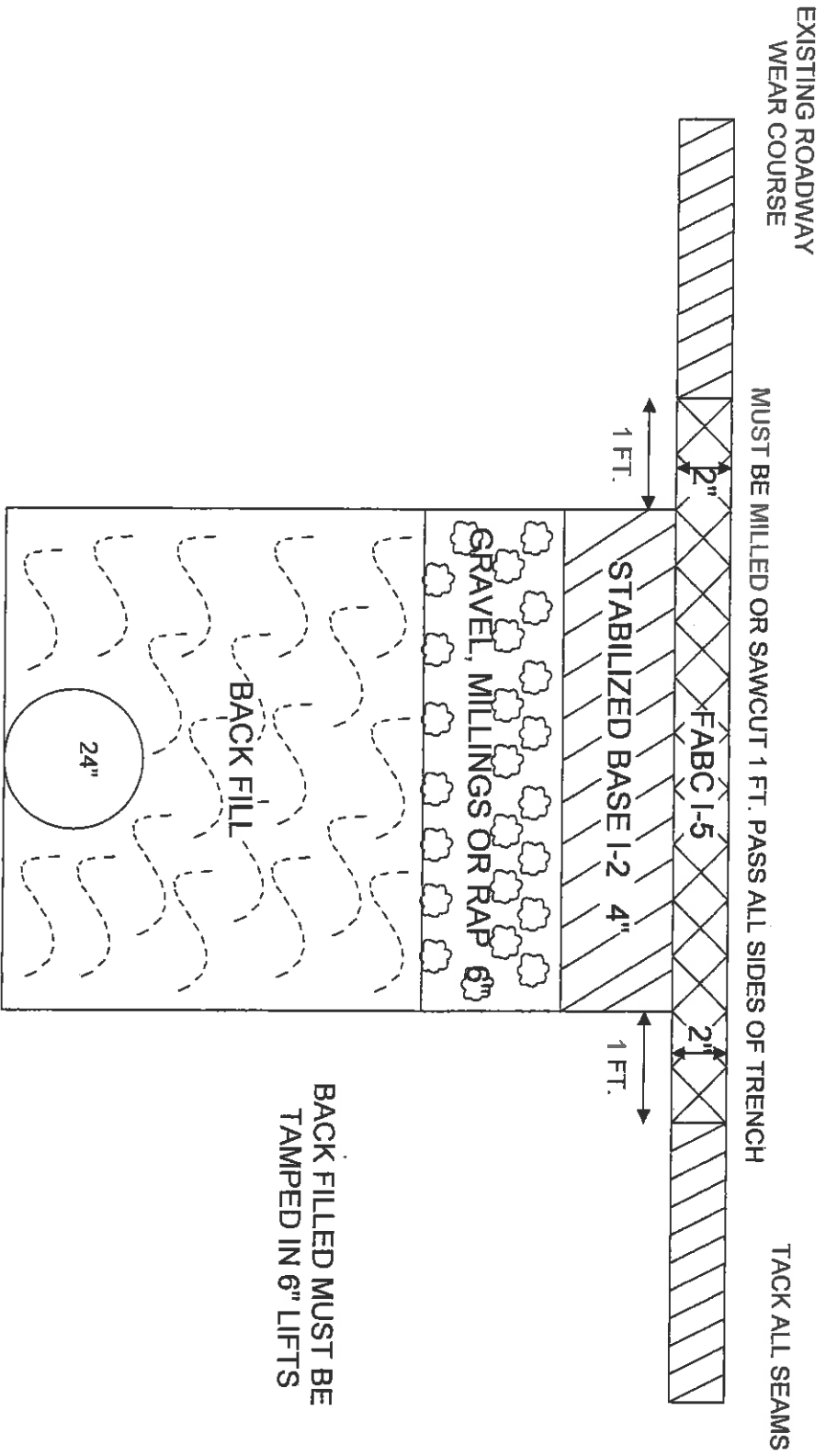


RESTORATION MUST BE DONE AS SHOWN



FINAL INSPECTION WITHIN 90 DAYS
OF PRELIMINARY INSPECTION UNLESS
REQUIREMENTS FALL UNDER INFRARED
RESTORATION.

BACK FILLED MUST BE
TAMPED IN 6" LIFTS

POLICY

GALLOWAY TOWNSHIP METHOD OF CONSTRUCTION FOR INFRARED RESTORATION OF ROADWAYS:

Infrared restoration for repair of asphalt streets that are less than 5 years old and have been opened for utility work shall be utilized after one hundred twenty (120) to one hundred eighty (180) day settlement period has elapsed.

(a) The following methods of construction shall apply:

- 1) After completion of permanent restoration, the permittee shall provide Infrared restoration.
- 2) The area shall be swept clean of dirt, loose aggregate, or standing water.
- 3) A chalk line shall be drawn twelve (12") inches back from the seam of the original opening to use as a guide raking.
- 4) The infrared chamber shall be lowered over the repair being sure to allow at least twelve to eighteen (12'-18") inches of heated area beyond the perimeter of the original opening.
- 5) To insure the proper heating time, the contractor shall check the surface temperature of the asphalt at seven minutes and every minute thereafter using an infrared thermometer so as not to allow the surface temperature to exceed three hundred fifty (350°) degrees Fahrenheit. This is required since the ambient temperature, the color of the pavement, the size of the aggregate, and the moisture content influence the heating time.
- 6) After the appropriate heating time (typically eight to ten (8-10) minutes), the asphalt surface will be softened to a depth of two to two and one-half (2"-2 1/2") inches.
- 7) The infrared chamber shall be then removed from the heated area.
- 8) The backside of a steel rake shall be used to neatly square off the repair, cutting twelve (12") inches back from the original excavation along the chalk line.
- 9) The area inside the repair shall be deeply scarified, taking special care to eliminate the original seam between the repair and the road.
- 10) Approximately one-half to one (1/2"-1") inch of existing three-fourths (3/4") inch stones shall be raked out and removed from the patch.

- 11) Maltenes rejuvenator shall be applied to the repair and surrounding heated asphalt surface. Emulsified maltenes recycling agent (rejuvenator) shall be applied in a ratio of 1:1 with water. This solution shall be well dispersed with a commercial grade sprayer at a rate of eight (8) ounces per square yard of heated area. This application area shall include both the area under repair as well as the area heated by left undisturbed around the perimeter of the repair. The application shall take place after the area has been scarified and just prior to the addition of new asphalt. The rejuvenator replaces the light oil component of asphalt, which has oxidized out over time.
- 12) Hot mix asphalt I-5 (1/4-3/8 aggregate) shall be added to the area to bring it up to proper grade and luted smooth.
- 13) The area shall be compacted. The edges shall be rolled first to fuse the hot repair to the heated but untouched surrounding pavement.
- 14) Light coating of stone dust can then be spread over the repair to remove the tackiness. The road can then be opened to traffic.

(b) Equipment shall meet the following specifications:

- 1) Infrared Heater. The heating chamber used shall consume no more than twelve thousand five hundred (12,500.) BTU per square foot heated area. This rate of consumption shall translate into the ability of the heater to soften asphalt to a depth of 1 1/2 to 2 1/2 inches in eighth to ten (8-10) minutes without burning the surface.
- 2) Asphalt Storage Unit: A thermostatically controlled storage unit will be

[REDACTED]

3) [REDACTED]

[REDACTED]

GALLOWAY TOWNSHIP CLEANUP POLICY

- a. All areas shall be kept neat and clean during construction. During work hours, debris in the street shall be properly barricaded. Traffic flow and access shall be maintained in a safe and reasonable manner in accordance with the standards set forth in the latest edition of the M.U.T.C.D. After work hours, construction debris shall not be left in any street or alley.
- b. Persons performing work shall remove any and all construction related debris from the site of the excavation on a daily basis. All debris removed from the excavation site shall be disposed of properly and legally. No debris shall be left at the site. Broken pavement, large rock and other objectionable materials such as piping are to be kept segregated from the clean surplus material and trucked to the contractor's disposal site.
- c. No debris shall be disposed of on public or private property.
- d. Construction equipment and construction material shall not be parked or placed in any street overnight unless a permit has been obtained from the Director of Public Safety.
- e. Any damage to private property such as, but not limited to, fences, lawns, driveways, parking areas, curbing, landscaping and sidewalks shall be restored to a condition equal to or better than the condition prior to the street opening.
- f. All depressions, whether on public or private property, occurring during or resulting from the street opening shall be repaired by the permittee. The Director of Public Works or his/her designated representative shall determine the cause of any depression and notify the contractor and/or permittee accordingly.
- g. All obstructions in watercourses and drainage systems shall be removed and drainage systems cleaned of any and all debris resulting from construction of the utility opening.