

# *City of Springfield*

## **CONSTRUCTION INSPECTORS CHECK LIST**

- Permits (ODOT - DSL - DEQ - Lane County)
- Right-of-Way delineated
- Utilities located (One Call No. 1-800-332-2344) and marked.
- Wet weather structure - Note: all streets constructed from October 15<sup>th</sup> thru May 1<sup>st</sup> will automatically be wet weather construction.
- News media informed when construction is contiguous to established routes of travel.
- Erosion control plan
- Emergency services, Lane Transit District, U.S. Postal Service, and Springfield School District notified of possible complete or partial blockage of public access (see notification list road closure).
- Notice to Proceed sent to the prime contractor
- Pre-Construction Meeting

## **CONSTRUCTION CHECK LIST**

### **Construction Signing**

- Traffic Plan to transportation 5 days in advance
- All required signs in place in accordance with approved traffic control plan
- Install City project signs (if City project)

### **Construction Staking Checked**

- Right-of-Way flagged and property corners well marked , referenced and tied by surveyor
- Construction staking in place and referenced
- Cut sheet checked against field markings
- Mark all driveways that are part of the project

### **Clearing and Grubbing**

- Assure that contractor removes only those items marked for removal. Unless otherwise specified all scalped materials, rubble or other deleterious materials not specified for salvage, shall be removed from the job site.

### **Excavation of Sub-grade**

- Recheck construction staking for stakes and hubs lost during the clearing and grubbing operations.
- Check for over-excavation and width (see typical section)
- Record areas of over-excavation due to unsuitable soils
- Request sub-grade check by survey crew and City Inspector.

## **Infrastructure Installation**

- Recheck construction staking for lost hubs and cut stakes
- Inspect materials delivered to project (certifications) pipe markings to match certs
- Casting dates on concrete pipe checked. Do not install pipe cast less than 14 days prior to installation.
- Compare all classes and types of pipe, culverts, and conduit delivered to the project with those specified on the plans for installation.
- Inspect all conduit, precast manhole, and drainage appurtenances for suitability of use.
- Check for over-width excavation of trenches. Be aware of backfill quantities where it is a pay item.
- Check line and grade of pipe being installed against staking.
- Check that flow lines match when joining conduits of the same diameter but of different materials, i.e., PVC to CONC.
- Check that bedding and pipe zone materials meet specifications.
- Check that sewers of different sizes are installed with the top inside surfaces at the same grade.
- Pipe zone material placed as specified (see typical section).
- Insure that only imported granular backfill materials are being used in public right-of-way.
- Assure that proper compaction is made to insure specified density of trench backfill.
- Call for lab testing of concrete to be used for cast-in-place manholes and drainage inlets. One set, slump test and concrete cylinders per each day's pour.
- Sanitary sewer laterals properly marked with 2x4 markers, distance measured from nearest property corner, and depth of pipe recorded on project plans.
- Sub-grade reshaped after sewer work completed.
- Construction staking rechecked for lost hubs and guard stakes.
- Visual inspection of sub-grade made for unsuitable materials, soft spots, mud boils, or evidence of excessive pumping.
- Requested sub-grade inspection by City Inspector.
- All utility carrier conduit crossings shall be installed at this time, i.e., street lights, signals, water, power, phone, gas, TV, etc.

## **Crushed Aggregate Base**

- Grade okay for base rock placement.
- Check crushed rock for suitability. Request lab sampling as a check against pre-ran proctors.
- Crushed rock base constructed as specified in Section 305.3.00 of the Standard Specifications.
- Assure that adequate water is being applied to maintain optimum moisture content and hold fine materials in place.
- Guard against use of vibratory rollers on dry rock.
- Curb rock grade check.
- Curb rock densities taken. One test every 150 linear feet. 95% Relative Maximum Density required.
- Visual inspection of curb rock grade by city inspector.
- Curb rock okay for curb and gutter placement.

### **Concrete Curb and Gutter (form and pour method)**

- Form material straight and true. No knot holes, splits, or warped forms used.
- Form pieces join together smoothly.
- Spacers and batter set to proper alignment. Form set will result in a finished structure to design cross section line and grade.

### **Concrete Curb and Gutter (extruded machine method)**

- 4 ft. offset hubs in place
- Alignment and grade of auto sensor grade wire checked.
- Inlet bases poured before curbs installed.

### **General**

- Weep holes and curb drains placed in accordance with Subsection 313.3.03C of the Standard Specifications.
- Curb cuts and handicap ramps marked. Transitions in accordance with Subsection 314.3.13B of the Standard Specifications.
- Lab called to take test of concrete. One set, slump and cylinder per 100 C.Y. of concrete, but not less than one set per day's pour.
- Batch tickets checked for time of batch and strength ordered. Delivered concrete meets specifications.
- Check gutter flow line with 10 ft. straightedge for low spots that could result in a water pond.

### **Pre-Paving Conference Required**

- Street rock checked for grade and for 95% compaction (T-180).
- A pre-paving conference in accordance with Subsection 310.3.02 of the Standard Specifications 1994 edition, shall be held not less than 48 hours prior to paving.
- Specify asphalt density required.
- Conform asphaltic concrete mix design with City Inspector one week in advance.

### **Asphalt Concrete Paving (Base Lift)**

- Check weather and temperature conditions within acceptable limits as stated in Subsection 310.3.09 of the Standard Specifications.
- Call for lab testing of asphaltic concrete mixtures, asphalt content, aggregate gradation, and rice density. One test each day and for each 500 tons per Class of A.C.
- Arrange for lab to take densities in accordance with Subsection 310.3.15 of the Standard Specifications.
- Assure that paving foreman understands project paving requirements and adjusts paving widths to prevent stacking of longitudinal or lateral joints.
- Check for removal of pre-sawed existing abutting broken edged asphalt pavements.
- Check that asphaltic tack coat is applied to all abutting surfaces.
- Correct any deficiencies in sub grade rock.
- Check for over-spray of tack onto curb and gutter (clean).
- Check temperature of asphalt mixture (lay down temp 250 - 300 degree Fahrenheit).

- Check that paving machine is free of hardened mixture that could fall onto the mat, that the screed is hot and does not pull or tear the mat, that the flights and auger deliver a well balanced mixture to the screed with no fat or segregated mix evident in the mat.
- Check that rollers are cooperating with lab personnel in obtaining maximum densities per specifications.

### **Asphalt Concrete Paving (Surface Course)**

- Check that no surface course asphalt pavements are placed on base courses that have not been fully compacted and cooled to a mean temperature of 150 degrees Fahrenheit or less.
- Check that base course is clean and free of any contaminating materials. Dusty areas shall receive a fog coat of tack just prior to paving. Tack any area that has had traffic on it.
- Check that gutters are clean and free of foreign objects that could hinder rakers from obtaining a proper lap joint of the gutter.
- Check that lab personnel are alerted to continue product testing and to take density tests during the paving operation.
- Check that the paving machine is clean and free of materials that could sift onto the mat.
- Check that the crown at centerline is figured from the front edge of the gutter bar, not from the top of curb.
- Check that the paving foreman is informed of expected treatment at the ends of curb and gutter, or other appurtenances.
- Check that the gutter shoe of the automatic sensor is set to allow 1/4 to 1/2 inch overlap seal of the gutter bar as specified.
- Check that the rakers are instructed not to broadcast "bones" onto the mat.
- Check that the screed operator is directed not to deviate from the design grade to accommodate for manholes or valve boxes. Improper adjustment will be corrected after paving.
- Check that temperature of the asphalt concrete at time of lay down is within limits specified (250 - 300 degrees Fahrenheit).
- Check that roller operations are cooperating with lab personnel to achieve densities as specified.
- Check that paving lines not completed by the end of day are terminated with staggered papered lateral joints.