

JOB TITLE: Sign and Marking Technician  
EMPLOYEE:

DOT #: 869.361-018  
CLAIM #



## **KING COUNTY ON SITE JOB ANALYSIS**

**JOB TITLE** Sign and Marking Technician

**JOB CLASSIFICATION** Sign and Marking Technician

**DOT TITLE** Sign Erector-and Repairer (fabrication, nec)

**DOT NUMBER** 869.361-018

**DEPARTMENT** Transportation

**DIVISION** Road Services, Traffic Division

**# OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE** 14

**JOB STATUS**

Full Time, Career Service.

**ADDRESS OF WORKSITE**

155 Monroe Ave NE  
Renton, WA 98056-4199

**CONTACT'S NAME** Lindy Jenson and George Dudley

**CONTACT'S PHONE** 206-205 7121, 206-296-0175

**EMPLOYER JOB TITLE** Supervisor III, Signs and Markings Supervisor II

**DATE COMPLETED** 5/7/02

**VRC NAME** Carol Gordon

**DATE REVISED** 9/30/10

**WORK HOURS**

6:00am to 2:30 Monday through Friday.

**OVERTIME**

Optional and occasional.  
Fair Labor Standards Act, Non-Exempt (hourly).

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### **JOB DESCRIPTION**

Responsible for the installation and maintenance of traffic signs and pavement markings as well as the roadway striping application for roadways within all of unincorporated King County and inter-local agreements with other municipalities. The employee is responsible to respond to call outs and emergency situations at any time on a twenty-four hour basis. The employee can also perform striping and pavement marking as well as other services to cities as requested.

### **ESSENTIAL ABILITIES FOR ALL KING COUNTY JOB CLASSIFICATIONS**

1. Ability to demonstrate predictable, reliable, and timely attendance.
2. Ability to follow written and verbal directions and to complete assigned tasks on schedule.
3. Ability to read, write & communicate in English and understand basic math.
4. Ability to learn from directions, observations, and mistakes, and apply procedures using good judgement.
5. Ability to work independently or part of a team; ability to interact appropriately with others.
6. Ability to work with supervision, receiving instructions/feedback, coaching/counseling and/or action/discipline.

### **JOB SPECIFIC REQUIREMENTS**

The employee must possess knowledge and skill in using and maintaining paint as well as preparing equipment and supplies. Must have knowledge of methods, materials, and equipment used in the installation and maintenance of signs. Thermoplastics, buttons (raised pavement markers) and striping. Must possess knowledge of the Manual on Uniform Traffic Control Devices (MUTCD). Must possess skill in reading maps and drawings, and safely operating vehicles and equipment. Must be able to lift 50 pounds and possess a valid Washington State Driver's License.

### **ESSENTIAL FUNCTIONS Listed in order of importance**

1. Applies paint and/or thermoplastic for crosswalks, arrows, legends, channelization islands, stop bars, and lane lines.
2. Installs pavement markings such as traffic buttons, street signs and posts.
3. Operates and maintains paint machinery including compressors, paint pots, spray guns, greenlite striper, and centerline striping machines.
4. Maintains and logs daily activities and composes reports.
5. Keeps brush, trees and other objects clear of traffic signs.
6. Flags and routes traffic.
7. Erection, repair and removal of street signs and posts using jack hammer, air compressor, and common hand tools including post hole digger and digging bars to dig holes.
8. Operates County Vehicles.

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### **NON-ESSENTIAL FUNCTIONS**

Operating a poon-jar (gas powered jackhammer).

### **TOOLS, MACHINES, EQUIPMENT, PRODUCTS, AND SERVICES USED**

County truck, compressors, hammer, drill, shovel, digging bar, fence post digger, air tools, hand saw, impact wrench, jackhammer, thermoplastic melting pre-applicator, roadway striping truck, bituminous (tar), reflective roadway strips and buttons, marker truck, pavement-marking removing grinder, weed eater, computer, spray paint, walking wheel, tape measure, and engineer's chalk.

### **PHYSICAL DEMANDS AS JOB IS TYPICALLY PERFORMED**

Continuously = occurs 66-100% of the time

Frequently = occurs 33-66% of the time

Occasionally = occurs 1-33% of the time

Rare = may occur less than 1% of the time

Never = does not ever occur (such demands are not listed)

### **This job is classified as**

Heavy (Occasional lifting 50-100# and frequent lifting 25-50#)

#### **Standing**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously on flat pavement and uneven surfaces for up to 2.5 hours at a time for up to 7 hours total in a work shift. Most commonly occurs while performing traffic control duties (flagging) and installing signs.

#### **Walking**

Health Care Provider initials if restricted\_\_\_\_\_

Frequently on flat cement and uneven surfaces for distances of up to 200 feet for up to 2 hours at a time for up to 5 hours total in a work shift. Most commonly occurs while removing road markings and installing signs.

#### **Sitting**

Health Care Provider initials if restricted\_\_\_\_\_

Occasional while driving to job site, 30 minutes is typical but may be up to 2 hours. May increase to frequent, up to 6 hours, while doing seasonal work such as night checks, driving, and stripping.

#### **Climbing**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally on ladders and truck steps to heights of up to 7 feet for up to 10-15 minutes at a time and 60-90 minutes total in a work shift. Most commonly occurs while climbing a ladder to install a sign or climbing on or off of a county truck.

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**Balancing**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally on ladders and truck steps to heights of up to 7 feet for up to 10-15 minutes at a time and 60-90 minutes total in a work shift. Most commonly occurs while installing signs.

**Bending/Stooping**

Health Care Provider initials if restricted\_\_\_\_\_

Frequently on flat cement and uneven surfaces for up to 30 minutes at a time for up to 4-6 hours total in a work shift. Most commonly occurs while measuring and performing pavement-marking removal duties and installing signs.

**Kneeling**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally on flat cement and uneven surfaces for up to 5 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs while laying out materials, measuring, and performing pavement-marking removal duties.

**Crouching**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally on flat cement and uneven surfaces for up to 5 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs while laying out materials, measuring, and performing pavement-marking removal duties.

**Operating Controls with Feet**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 4 hours total in a work shift while driving County vehicles such as the striping truck.

**Reaching above shoulder height**

Health Care Provider initials if restricted\_\_\_\_\_

Frequently for up to 5 minutes at a time for up to 4 hours total in a work shift while pruning bushes and trees that are blocking signs, washing signs (standard height is 7 feet) , and reaching for posts on truck post rack.

**Reaching at waist to shoulder height**

Health Care Provider initials if restricted\_\_\_\_\_

Frequently for up to 2.5 hours at a time for up to 4 hours total in a work shift while driving and installing signs.

**Reaching at knee to waist height**

Health Care Provider initials if restricted\_\_\_\_\_

Frequently for up to 2.5 hours at a time for up to 4 hours total in a work shift while measuring with the walking wheel, using the thermoplastic applicator, and spray painting.

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**Reaching at floor to knee height**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 30 minutes at a time for up to 30 minutes total in a work shift while removing or placing signs on a pallet as well as laying out materials for marking traffic lines.

**Lifting 1-10 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 30 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 3-5 pounds while using spray cans and hand tools.

**Carrying 1-10- pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 200 feet for up to 30 minutes at a time and up to 1 hour total in a work shift. Most commonly occurs with weights of 3-5 pounds while transporting spray cans and hand tools.

**Lifting 11-20 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 30 seconds at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 15 pounds while using bituminous and power tools as well as tool boxes and boxes of marking materials.

**Carrying 11-20 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 30 feet for up to 30 seconds at a time and up to 1 hour total in a work shift. Most commonly occurs with weights of 15 pounds while transporting bituminous and power tools as well as tool boxes and boxes of marking materials.

**Lifting 21-50 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 5 minutes at a time for up to 3 hours total in a work shift. Most commonly occurs with weights of 30-50 pounds while moving boxes of buttons, bags of thermoplastic, assembled signs, digging bars (17-27#) message boards, generators, and toolboxes.

**Carrying 21-50 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 5 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs with weights of 30-50 pounds while moving boxes of buttons, bags of thermoplastic, digging bars (17-27#), message boards, generators, assembled signs, and toolboxes

**Lifting 50-75 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Occurs on an occasional basis while handling a jack hammer (57 pounds) or sign assemblies. May increase to frequent if installing pre formed curbing but this does not occur on a daily basis.

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**Carrying 50-75 pounds:** Health Care Provider initials if restricted\_\_\_\_\_

Occurs on an occasional basis while handling a jack hammer (57 pounds) or sign assemblies, may be carried short distances up to 5 feet.

**Lifting 50-100+ pounds** Health Care Provider initials if restricted\_\_\_\_\_

Rarely lifts a poon jar weighing 90 pounds or preformed concrete curbing ranging in weight from 30 pounds to 300 pounds. A forklift is generally used to lift the heavier pre formed curbing and if a forklift can't be used, a two person lift is performed. This is not a dally tasks and occurs only 1-3x per year.

**Carrying 50-100 + pounds** Health Care Provider initials if restricted\_\_\_\_\_

Rarely carries heavier items up to five feet such as a jack hammer or sign assemblies. May carry poon jar rarely weighing 90 lbs or pre formed curbing frequently ranging in weight from 30 lbs to 300 pounds. This is not a daily task and occurs only 1-3x per year. A forklift is generally used to lift the heavier pre formed curbing and if a forklift can't be used, a two people would lift/carry a maximum of 150 pounds.

**Pushing and Pulling** Health Care Provider initials if restricted\_\_\_\_\_

Frequently for distances of up to 200 feet for up to 1 hour at a time with a force of 30 pounds and up to 6 hours total in a work shift. Most commonly occurs while pushing curbing machine, grinders, stripper, or thermoplastic applicator (on wheels). When pushing the thermoplastic applicator uphill, assistance is available.

**Handling** Health Care Provider initials if restricted\_\_\_\_\_

Frequently for up to 2.5 hours at a time for up to 6 hours total in a work shift while driving as well as when using tools and machines. It should be noted that sign installation requires loosening ground material with digging bar, removing ground material with post hole digger or shovel, then installing and or removing the signs.

**Operating Controls with Hands**

Health Care Provider initials if restricted\_\_\_\_\_

Frequently for up to 2.5 hours at a time for up to 6 hours total in a work shift while driving the striping truck which includes using several hand controls that control the striping.

**Fingering** Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 6 hours total in a work shift while using the control panel on the striping truck, using the truck computer terminal for data entry, and using the computer mouse.

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**Talking**

Health Care Provider initials if restricted\_\_\_\_\_

Occasionally for up to 5 minutes at a time for up to 2 hours total in a work shift while responding to citizen inquiries as well as conversing with co-workers and superiors.

**Hearing**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 6 hours total in a work shift while listening for equipment malfunction when using the striping truck and when listening for hazards when driving.

**Near acuity—clarity of vision at 20 inches or less**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 6 hours total in a work shift while using a computer and performing paperwork duties as well as watching the monitor and controls on the striping truck.

**Far acuity—clarity of vision at 20 feet or more**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 4 hours total in a work shift while driving County vehicles such as the striping truck.

**Depth perception—three dimensional vision**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 4 hours total in a work shift while driving County vehicles such as the striping truck.

**Color vision—ability to identify and distinguish colors**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for 2.5 hours at a time for up to 6 hours total in a work shift while identifying paint color and performing graphics duties as well as painting and removing colored lane lines.

**Field of vision—observing an area that can be seen up and down or right or left while eyes are fixed on a given point**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 4 hours total in a work shift while driving County vehicles such as the striping truck.

**Night vision--seeing after sundown with minimal or no supplemental light sources**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 4 hours total in a work shift while driving a County vehicle to perform retro reflectivity checks for road lines and buttons.

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### **TEMPERAMENTS**

Performing repetitive or short-cycle work: Frequently  
Influencing people in their opinions, attitudes, and judgements: Occasionally  
Performing a variety of duties: Frequently  
Expressing personal feelings: Occasionally  
Working alone or apart in physical isolation from others: Frequently  
Working effectively under stress: Continuously  
Attaining precise set limits, tolerances, and standards: Continuously  
Working under specific instructions: Continuously  
Working with others: Frequently  
Making judgements and decisions: Continuously

### **ENVIRONMENTAL FACTORS**

Work is performed in an outdoor setting with exposure to moving automobiles, paint fumes, and road dust. The noise level is loud.

#### **Workers are exposed to**

Outside weather: Continuously  
Extreme cold: Rare  
Extreme heat: Occasionally  
Fumes: Frequently  
Odors: Frequently  
Dusts: Frequently  
Mists: Rare  
Gases: Rare  
Poor ventilation: Rare  
Moving mechanical parts: Frequently  
Vibration: Frequently  
Working in high, exposed places: Rare  
Toxic or caustic chemicals: Occasionally

**POTENTIAL MODIFICATIONS TO JOB:** None

\_\_\_\_\_  
Signature & title of evaluator

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature & title of contact

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature & title of employee

\_\_\_\_\_  
Date



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### HEALTH CARE PROVIDER SECTION

Check all that apply

☐ The employee is released to perform the described duties without restrictions on performance or work hours.

☐ The employee is released to perform the described duties on a reduced schedule. The recommended schedule is:

\_\_\_\_\_

☐ Temporary until \_\_\_\_\_ ☐ Permanent as of \_\_\_\_\_

☐ The employee is released to perform the described job with the following modifications:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

☐ Temporary until \_\_\_\_\_ ☐ Permanent as of \_\_\_\_\_

☐ The employee is not released to perform the described duties due to the following job functions:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

☐ Temporary until \_\_\_\_\_ ☐ Permanent effective \_\_\_\_\_

☐ The employee is unable to work in any capacity.

A release to work is: ☐ anticipated by \_\_\_\_\_ ☐ Not expected

The limitations are due to the following objective medical findings:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Printed or typed name and phone number of Health Care Provider

Signature of Health Care Provider

Date