COUNTY OF SONOMA - JOB DEMANDS ANALYSIS

JOB CLASSIFICATION: Maintenance Worker I/II – Road Maintenance DEPARTMENT: Sonoma County Public Infrastructure PHYSICAL DEMAND STRENGTH RATING: Heavy

DATE COMPLETED: 4/20/2023 DIVISION: Roads

INSTRUCTIONS TO MEDICAL PROVIDERS COMPLETING THIS FORM:

Please use the "Medical Provider Use Only" columns to the right of each section and the "Medical Provider's Comments & Signature" Section on the signature page to provide work restrictions by indicating whether there is some portion of each function that the employee can perform; designating whether each restriction is temporary or permanent; and, if restriction is temporary, stipulating the expected duration of work restriction(s). To finalize the form, please provide the name of the employee evaluated and additional comments, as appropriate, then sign and date where indicated.

FREQUENCY RATING:

Frequency	Percentage of time per shift	Repetition (# times per shift)	8 Hr Shift	9 Hr Shift	10 Hr Shift	12 Hr Shift
Never (N)	n/a	n/a	n/a	n/a	n/a	n/a
Occasionally (O)	1 - 33%	1-100	0 - 2.5	0 - 3	0 - 3.5	0 - 4
Frequently (F)	34 - 66%	100 - 500	2.5 - 5.5	3 - 6	3.5 - 7	4 – 8
Continuously (C)	67 - 100%	500+	5.5 – 8	6 - 9	7 - 10	8 - 12

PART 1 - JOB DUTIES/FUNCTIONS:

A. Job Duty/Function		Rating	tools used to perform (Describe)	E. Specialized Expertise, License, Certification	or Non- Essential	Medical Provider Use Only: For each job duty/function, indicate in this column "Can Perform", is "Temporarily Restricted" from
				Required? (Describe)		performing, or is "Permanently Restricted" from performing.
While performing the following duties, employees in this position work outdoors in all types of terrain, vegetation, and weather conditions, performing duties in both daylight and dark/dim conditions.						
Works long and irregular hours, including nights, weekends, and holidays, during response and recovery phases of emergency situations.	1	0				
Drives county vehicle/pick-up truck to and from job sites and other offsite locations, including rugged, remote, and off-road locations; drives pilot vehicle.	2	F	commercial vehicles	CA Class A commercial driver's license, including tanker endorsement	E	

A. Job Duty/Function		-	tools used to	Expertise,	or Non-	Medical Provider Use Only: For each job duty/function, indicate
	#		perform (Describe)	License, Certification Required? (Describe)	Essential	in this column "Can Perform", is "Temporarily Restricted" from performing, or is "Permanently Restricted" from performing.
Inspects vehicles, machines, equipment and tools and reports damage, wear, required repairs and maintenance, and need for replacement; performs routine maintenance of equipment; cleans, sharpens, and maintains hand tools.	3	F	Various hand tools, both manual and power		E	
Patches, repairs, and seals potholes and cracks. Lifts and carries materials weighing up to 65 pounds and hand tools weighing up to 90 pounds. Shovels and rakes asphalt.	4	F	Spray Wand, Shovel, Rake, Jackhammer, Crack Sealant, Patch repair supplies, Vibro Plate, spray wand		E	
Cleans, unclogs, and maintains manholes, catch basins, storm drains, culverts, and ditches including: digs trenches. Lifts, carries and places culverts and other materials weighing up to 100 pounds; works below ground and in tight/confined spaces; lifts and removes manhole/drain covers weighing up to 100 pounds.	5	0	Potato Fork, Shovel, Rake, Grate Inlet, Pry Bar, Chainsaw, Concrete, Culverts, Sand, Manhole/Drain cover		E	
Prunes and trims trees and shrubs; clears brush. Works suspended above ground at heights up to 20 feet.	6	0	Chainsaw, Pole Saw Pruning Shears, Rake, Man lift	Fall Protection training, Aerial lift certified	E	
Installs erosion/sediment control devices including lifts, carries over steep, slippery, and uneven terrain, and sets straw barriers and sandbags weighing up to 287 pounds.	7	0	Straw Bales and Wattles, Sandbags, Operate Hydro seeder		E	
Performs traffic control/safety duties including: stands for long periods of time while remaining alert and holding flag at shoulder level; sets up and removes barricades and road signs weighing approximately 35 pounds.	8	F	Sign, Barricades, Truck	Flagger Certification;	E	

	P loh	C Eroa	D. Equipment or	E. Specialized	E Eccontial	Medical Provider Use Only: For
A. Job Duty/Function			tools used to	E. Specialized Expertise,		each job duty/function, indicate
	Duty #	касти	perform (Describe)			in this column "Can Perform", is
	#		periorin (Describe)		Essential	-
				Certification		"Temporarily Restricted" from
				Required?		performing, or is "Permanently
				(Describe)		Restricted" from performing.
Paints traffic safety marking on roads using striping truck. Paints	9	F	Paint Applicators	Striper truck	E	
traffic and bike path lanes on roads by hand using stencils made			(sprayers, rollers),	requires CA		
out of aluminum.			various trucks	Class A		
			including	commercial		
			commercial,	driver's		
			stencils, paint	license,		
			bucket	including		
				tanker		
				endorsement		
Performs unskilled maintenance in and around building structures	510	0	Lawn Mower, Mop,	,	N	
including: mowing grass, sweeping, mopping and/or waxing			Broom, Wax			
floors.			Machine			
Communicates by phone, email, or in person with other	11	0	Computer, phone	CA Driver's	E	
departmental staff and members of the public to coordinate		•		license		
activities, answer questions, respond to complaints, and provide						
information; maintains a calm and professional manner while						
dealing with hostile or verbally abusive members of the public.						
Participates in training to maintain and enhance knowledge and	12	F	Computer, in-		E	
skills necessary to perform assigned duties.	12	•	person/ field		L	
skins necessary to perform assigned duties.			training			
At the II Level Only: Operates dump truck and heavy equipment;	12	F	Backhoe, Loader,	CA Class A	F	
sits for long periods of time; climbs up and down stairs or ladder	12	Г		commercial	E	
rungs to enter and exit equipment; reaches forward, down, and			Mower, Sweeper,	driver's		
across to operate controls; monitors and remains alert to verbal			Rental Equipment	license,		
and visual signs from other workers, and to equipment				including		
instrument and gauges to detect malfunctions and problems.				tanker		
At the II Level Only: Loads equipment on trailer, secures,	14	0		CA Class A	E	
transports and unloads heavy equipment.			and Trailer	commercial		
				driver's		
				license,		
				including		
				tanker		
				endorsement		

A. Job Duty/Function	B. Job	C. Freq	D. Equipment or	E. Specialized	F. Essential	Medical Provider Use Only: For
	Duty	Rating	tools used to	Expertise,	or Non-	each job duty/function, indicate
	#		perform (Describe)	License,	Essential	in this column "Can Perform", is
				Certification		"Temporarily Restricted" from
				Required?		performing, or is "Permanently
				(Describe)		Restricted" from performing.
Culvert Crew Only: Welding and torch cutting of galvanized	15	0	Oxyacetylene		E	
material and steel; works in tight/confined spaces.			torch, MIG welder,			
			PPE (required for			
			welding i.e., mask,			
			gloves, etc.)			
Vegetation Crew Only: Operates spray truck, loads pesticides	16	F	Spray truck,	Pesticide	E	
into hoppers of the spray truck; uses backpack sprayers, weighing			Electric Pump, PPE	Applicator's		
up to 35 pounds; cleans and maintains spray truck; inspects and			(gloves, mask),	License		
reports any damage, safety, and maintenance issues.			Backpack, Spray			
			wand			

PART 2: PHYSICAL DEMANDS

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	Examples of	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY:
Activity	Duties/Functions	Never, Occasional;	Can Perform	Temporarily Restricted	Permanentl Restricted
Sitting	Requiring Activity	Frequent, or Constant F	Perform	Restricted	Restricted
Valking	2,11,12,13,16 2-10,14,16	F F			
-					
lunning	N/A	N			
itanding	3-10,13-16	С			
ending-Neck	2-16	F			
Bending-Waist	3-	0			
quatting	3-10,13-14	0			
limbing	2,6,7,13,14	0			
neeling	3-7,9,10,14	0			
Trawling	3,10	0			
wisting (neck)	2-16	С			
wisting (waist)	3-10,13,15,16	0			
Repetitive Hand Use (e.g., using spray wand, using computer, operating controls, welding)	2 4 6 7 0 11 15 16	0			
imple grasping (right hand) (e.g., holding raffic control flag, driving, cleaning and naintaining hand tools, mopping and weeping)	2-16	С			
imple Grasping (left hand) (e.g., holding raffic control flag, driving, cleaning and naintaining hand tools, mopping and weeping)	2-16	С			
Power Grasping (right hand) (e.g., raking, hoveling, pruning)	4-10,13-16	F			
Power Grasping (left hand) (e.g., raking, hoveling, pruning)	4-10,13-16	F			
ine Manipulation (right hand) (e.g., naintaining hand tools, using computer)	3,15,16	0			
ine Manipulation (left hand) (e.g., naintaining hand tools, using computer)	3,15,16	0			
Pushing and Pulling (right hand) (e.g., raking, unclogging drains, clearing brush, pushing awn mower, placing culverts)	4-10,13,14,16	F			
Pushing and Pulling (left hand) (raking, inclogging drains, clearing brush, pushing awn mower, placing culverts)	4-10,13,14,16	F			
oading spray truck)	6,15,16	F			
Reaching (below shoulder level)	2-16	F			
ifting-up to 10 lbs.	3-16	F			
ifting-11-25 lbs.	3-10,14,16	F			
ifting-26-50 lbs. (e.g., patch materials, piles of brush, straw bales and wattles, sandbags)	3-10,16	F			
ifting 51-75 lbs. (e.g., inlet grate, nanhole/drain cover, concrete, culvert)	4,5	0			
ifting 76-100 lbs. (e.g., inlet grate, nanhole/drain cover, concrete, culvert)	4,5	0			
ifting 100 + lbs.	N/A	Ν			
Carrying 0-10 lbs.	3-16	F			
Carrying 11-25 lbs.	4,5,7,8,16	F			
Carrying 26-50 lbs. (e.g., patch materials, piles of brush, straw bales and wattles,	4,5,7,8,16	F			

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Examples of	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY:
Duties/Functions	Never, Occasional;	Can	Temporarily	Permanently
Requiring Activity	Frequent, or Constant	Perform	Restricted	Restricted
4,5	0			
4,5	0			
	Duties/Functions Requiring Activity 4,5	Duties/Functions Never, Occasional; Requiring Activity Frequent, or Constant 4,5 O	Duties/Functions Requiring Activity Never, Occasional; Frequent, or Constant Can Perform 4,5 O	Duties/Functions Requiring Activity Never, Occasional; Frequent, or Constant Can Perform Temporarily Restricted 4,5 O Image: Constant

PART 3: SENSORY REQUIREMENTS

	Examples of	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Duties/Functions	Never, Occasional;	Can	Temporarily	Permanently
Activity	Requiring Activity	Frequent, or Constant	Perform	Restricted	Restricted
Functional vision, normal or corrected	2-16	С			
Functional color vision, normal or corrected	N/A	N			
Functional night vision, normal or corrected	2-16	0			
Functional hearing, normal or corrected	2-16	С			
A sense of smell or taste	N/A	N			

PART 4: COMPREHENSION LEVEL

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
Follow Oral Instructions	F			
Follow Written Instructions	F			
Required to sustain concentration	C			

PART 5: NATURE OF TASKS

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
Follow set procedures	С			
Organize own work	F			
Able to ask questions or request assistance when needed	С			
Required to make decisions independently	0			
Required to train and/or lead others	0			
Required to direct others (e.g. planning, goal setting, performance)	0			

PART 6: WORK PACE

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
Tightly scheduled and rapid pace of work activities at high	0			
volume				
Meet time sensitive deadlines	0			
Long and/or irregular hours	0			
Limited/unpredictable opportunity for breaks	0			
Required to perform on-call or emergency work	0			

PART 7: COMPLEXITY/VARIABILITY

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
Variable and unpredictable workflow	F			
Attention divided by issues requiring multi-tasking	F			

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
Work requires precise attention to detail	F			
Use of judgment in routine matters	F			
Requires use of judgment in adapting procedures from one	F			
task to another				
Possible legal ramifications associated with work activities or	F			
work product				

PART 8: INTERACTIONS WITH OTHERS

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
Works with others (e.g., co-workers, other	С			
departments/agencies, public)				
Interactions limited to giving/receiving information	F			
Interactions exceed giving/receiving information (e.g.,	0			
advises, persuades, justifies)				
Interactions occur under circumstances of emotional stress	0			
Risk of confrontation with violent or assaultive clients or	0			
customers				

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PART 9: ENVIRONMENTAL FACTORS/WORKING CONDITIONS:

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
Activity	Never, Occasional;	Can Perform	Temporarily Restricted	Permanentl Restricted
Work Inside	Frequent, or Constant O	Periorini	Restricted	Restricted
Work Outside	C			
Extreme Heat (above 100 degrees)	0			
Extreme Cold (below 32 degrees)	0			
Excessive Noise (must raise voice to be heard)	F			
Vibration (e.g., jack hammer, hammer drill, chainsaw, etc.)	F			
Dust, Vapors, Fumes, Smoke	F			
Silica, asbestos, etc.	0			
Solvents (e.g., gas, turpentine, etc.)	0			
Grease, oils	F			
Acidic, Caustic Solutions	N			
Pesticides	F			
Explosives (e.g., dynamite, bomb, etc.)	N			
Cleaning supplies, abrasives	0			
Other Chemicals (e.g., drugs and other contraband)	0			
Human Blood, Body Tissues, or Fluids	N			
Human Wastes	N			
Animal Blood, Body Tissues, or Fluids	0			
Animal Wastes	0			
Biological Toxins (e.g., poison ivy, poison oak, anthrax, etc.)	F			
Insect Bites (e.g., ticks, mosquitos, spiders, etc.)	F			
Biomedical Waste	N			
Ionizing Radiation	N			
Non-Ionizing Radiation	N			
Electrical Energy (working near overhead power lines i.e., trimming	0			
trees; contact with underground lines while digging)				
Walking on uneven, slippery, or rough surfaces	C			
Proximity to moving mechanical parts (e.g., equipment,	C			
machinery)				
Proximity to moving vehicles or objects	С			
Heights (e.g., rooftop, ladders, scaffolding, etc.)	0			
Contact with water, other liquids, humid conditions - not weather	0			
related				
Work Below Ground: (e.g., excavation, trench, etc.)	0			
Work in confined spaces	0			
Potential exposure to airborne infectious diseases (e.g., clinics,	N			
labs, corrections)				
Operates non-commercial motor vehicles (cars, trucks)	F			
Operates commercial vehicles – CDL ClassAEndorsements_ <u>Tanker</u>	С			
Operates passenger van to transport clients, inmates, etc.	N			
Pulls non-commercial trailers or equipment	0			
Operates heavy equipment	C C			
Other:	N			

PART 10: MEDICAL SCREENING, SURVEILLANCE AND VACCINATION REQUIREMENTS:

Please check each of the medical screening, surveillance, and vaccination requirements that apply to the position, and indicate if the requirement applies pre-employment/pre-placement only, or whether there are additional requirements after hire.

Medical Screening, Surveillance or Vaccination	Pre-Hire	Post-Hire	Frequency (one time, annual, etc.)
Audiometric Testing	Х	Х	annual
DOT Drug and Alcohol Screening	Х	Х	random
DOT Physical Exam		х	Every 2 years (DMV required)
Respirator Physical Exam: Culvert/Vegetation only	Х	Х	annual
Respirator Questionnaire – Short			
Respirator Questionnaire – Standard: Culvert/Vegetation only	Х	Х	annual
Blood lead level			
Hazardous Waste/Emergency Worker physical			
Heavy metal screen (mercury, lead, arsenic)			
HINT Hearing Noise Sensitivity Testing			
Tuberculosis skin test			
Vaccine: MMR			
Vaccine: Hepatitis B	Х		one time
Vaccine: Influenza			
Vaccine: Meningococcal			
Vaccine: Pneumococcal			
Vaccine: Rabies			
Vaccine: Tdap			
Vaccine: Chickenpox			

JOB DEMANDS ANALYSIS (Rev 7/1/18)Page 10PART 11: ADDITIONAL INFORMATION, PICTURES, ETC.



Work Truck with Lift, step to enter Driver's side 16 inches



Work Truck with Lift



Traffic Barricade with sign- 17 lbs.



Sandbag- 28 lbs.



Grate Inlet - Avg.= 100 lbs.



Cold Mix Bucket- 50 lbs.



Pavement Finisher Bucket- 40 lbs.



Crack Sealant- 25 lbs. per bag 50 bags per pallet



Pole Saw – 17 lbs. Shortest at 107" Extends to max of 180" (15')





Straw Wattle - 35 lbs.



Potato Hook



Bobtail Dump Truck- 39 inches to Bed of truck/gate



Bobtail Asphalt Patch Truck – 19 inches to lowered gate.

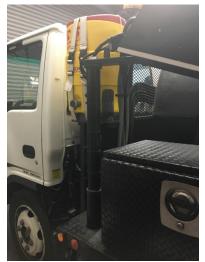
JOB DEMANDS ANALYSIS (Rev 7/1/18)Page 12Additional Photos for Vegetation Crew (Job Duty/Function #16):



Cold Mix Asphalt Repair Material Shovel and 5 Gallon Bucket for Pot hole repair



Pole Saw- weighing up to 13 lbs. Weed Whacker- 17 lbs.



5 Gallon Water Cooler- filled after being placed on truck



Barricades- 15 lbs.



4 Gallon Spray Back Pack-(*Typically filled with ONLY 3 Gallons*) Empty- 10 lbs.; Plus 3 Gal. - 35 lbs. ; Plus 4 Gal. - 43 lbs.



Driver's Side of Spray/Tank Truck

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Controls for Spray/Tank Truck-Typically controlled by passenger



Passenger side of Spray/Tank Truck



Side of Spray/Tank Truck- Portable Ladder Steps at 12" – 24" – 36" to bed of truck



Tank of Herbicide- Top of tankSpray/Tank Truck Step Height- 18 inchesAt 64" from floor; 46" from stepfrom ground



Utility Bed on Pick-up Bottom of Storage at 55" from ground-Storage for Herbicide or chainsaws



Full Herbicide- 15 gal. = 125.1 lbs. Lowered from 6 in. surface to ground



Case of Herbicide- 40 lbs. Case Handle at 13 inches



Cases stored from 6" to 52"



Single container of Herbicide= 18lbs. Moved from 6" pallet to 55" Utility Storage on Pick-up truck