			PHYSIC		EQUIREMENTS/\ of Virginia Beac		DITIONS			
							Position Number	er(PCN):	B.001759	
Job Title:	Engineer I									
Div./Office:	PWD 514 Traffic	Engineering	Approver's Nar	me			•			
Date of Last Update: September 01, 2023			Approver's Title							
		2023								
Fields to the right (Y/N): The position's status AND If the background check must be passed by the incumbent			Safety Sensitive:	No Child Protective Background:		Services (CPS)	No VCIN Backgrou		nd:	No
			CJIS Certification:	No	PREA Certification:		No	Subject to Barri Provisions:	er Crime	No
					REQUIREMENTS	5				
FRE	QUENCY: Seldo	m = Infrequent,	< 5%; Occasiona	l = 5% to 25% of t	ime on job; Freq	uent = 25% to 75	% of time on job;	Constant = Ove	r 75% of time on	job.
Турі	cal DURATION:	Short = < 1 hr pe	er occurrence; M	oderate = 1-2 hr	s per occurrence	e; Substantial = 2	-6 hrs per occur	rence; Long = > 6	hrs per occurre	ence.
	P	hysical Deman	ds				W	orking Conditio	ons	
Element	Condition/	Level/Value	Frequency	Duration		Element	Condition/	Level/Value	Frequency	Duration
Standing			Occasional	Short		<b>Working Outsi</b>	de: in all weath	er conditions	Seldom	Short
Walking			Occasional	Short		Working Alone w/others	rking Alone: out of communication thers			N/A
Sitting			Frequent	Substantial		Extreme	At/above 90 degrees		Seldom	Short
Reaching	Lower than sho	oulder level	Seldom	Short		Temperatures	,			
	Up to 25 lbs.		Seldom	Short		Extreme Wetn	ness		N/A	N/A
Lifting	Up to 50 lbs.		Seldom	Short		Extreme Dryne			N/A	N/A
Carrving	Weight:	Up to 10 lbs.	Seldom	Short		Exposure to	Little Used Road	ds	Seldom	Short
	Distance:	Over 25 ft.	Seldom	Short		Traffic	High Traffic Hig	h Speed	Seldom	Short
	Estimated weight-re		sistance equiva	alency		Congested Are	ited Area/Workspace		N/A	N/A
Pushing	N/A		N/A N/A			Confined Spac	e- Permit REQUIRED		N/A	N/A
	Estimated weight-re		sistance equiva			Working Below Ground			N/A	N/A
Pulling	N/A		N/A	N/A		Working at	N/A		N/A	N/A
	N/A		N/A	N/A		Heights (ft.)				
Working						Noise Level: > 8	35 decibels TWA	N/A	N/A	N/A
Overhead	Weight:	N/A	N/A	N/A		for 8 hrs.				
Climbing Stair	s	•	N/A	N/A			N/A		N/A	N/A
Climbing Ladders			N/A	N/A		Vibrations				
Balancing			N/A	N/A			Body area(s):	Ex- Trunk, shou	lders, arms, and	hands.
Stooping			N/A	N/A		Dust / Dirt / Pa	/ Particulate		N/A	N/A
Kneeling/Squatting			N/A	N/A		Radiation			N/A	N/A
Bending			Seldom	Short		Silica/Fibergla	erglass		N/A	N/A
Crawling			N/A	N/A		Asbestos			N/A	N/A
Explosive Strength: Short bursts of muscle			N/A	N/A		Aerosols &	N/A		N/A	N/A
force to propel oneself.						Gases				
Towns Charles the Line of the			N/A	N/A					N/A	
<b>Trunk Strength:</b> Use of abdominal and lower back muscles.					Hazardous Mat /Chemicals	.ci iais		undefined		
back mascies.						Chemicals			undefined	
	gth: Use of mus		N/A	N/A		Petroleum	N/A		N/A	N/A
repeatedly or co fatigue.	ontinuously & re	esistant to				Products				
Repetitive	Fingers/Wrist		Frequent	Substantial		Electrical Haza	rd		N/A	N/A
Limb Movement	Neck		Frequent	Short		Fire Hazard			N/A	N/A
	Use of computer keyboard		Frequent	Substantial		Infectious	N/A		N/A	N/A
Dexterity	Handwriting		Frequent	Substantial		Diseases				
Repetitive	N/A		N/A	N/A		Type(s): Ex- Repair sewer pipes; empty		residence trash cans.		
Twisting						. Jhc(3).		or less than		than
Awkward	NI/A		NI/A	NI/A		Symbols:				
Positions &	N/A		N/A	N/A			> equal to or	greater than	> great	er than
Motions										

Vision    Color vi	ndition/Level/Value //correction //sision (colors)  sational level OneSonal Protective Equi	Frequent Frequent Frequent N/A N/A Frequent Prequent N/A N/A N/A N/A N/A N/A	Duration Substantial Substantial Moderate N/A N/A Short  Duration N/A	Hazardous Surfaces Other Hazards	N/A  N/A  N/A  More than 40 hours/week  More than 8 hours/day  More than 5 consecutive days  Yes  Equipment Operatio  Type  Sedan/Pickup/Van	N/A  N/A  Occasional Occasional Seldom  N & Use  Frequency Occasional	Duration N/A N/A  Duration Short			
Color vi	sational level sational Protective Equi	Frequent N/A N/A N/A Frequent pment (PPE) Frequency N/A	Moderate N/A N/A Short  Duration	Hazardous Surfaces  Other Hazards  Hours Worked  Telework Eligible  Category Motor	N/A  More than 40 hours/week  More than 8 hours/day  More than 5 consecutive days  Yes  Equipment Operatio  Type	N/A Occasional Occasional Seldom  N & Use Frequency	N/A  Duration			
learing Conver    N/A	sational level  n-One rsonal Protective Equi	Frequent N/A N/A N/A Frequent pment (PPE) Frequency N/A	Moderate N/A N/A Short Duration	Surfaces  Other Hazards  Hours Worked  Telework Eligible  Category Motor	More than 40 hours/week More than 8 hours/day More than 5 consecutive days Yes  Equipment Operatio Type	Occasional Occasional Seldom  n & Use Frequency	Duration			
Hearing Conver  N/A  Fouch  N/A  One-on  Per  Category  N/A  Eye and Face Protection  Respiration Hearing Protection  Hearing Protection  Heard had	sational level  n-One rsonal Protective Equi	Frequent N/A N/A N/A Frequent pment (PPE) Frequency N/A	Moderate N/A N/A Short Duration	Other Hazards  Hours Worked  Telework Eligible  Category Motor	More than 40 hours/week More than 8 hours/day More than 5 consecutive days Yes  Equipment Operatio Type	Occasional Occasional Seldom  n & Use Frequency	Duration			
M/A  Mouch  Moice  One-on  Per  Category  N/A  ye and Face Protection  Respiration Protection  M/A  Hard hard hard hard	ı-One rsonal Protective Equi	N/A  N/A  Frequent  pment (PPE)  Frequency  N/A	N/A N/A Short Duration	Hours Worked Telework Eligible Category Motor	More than 40 hours/week More than 8 hours/day More than 5 consecutive days Yes  Equipment Operatio Type	Occasional Occasional Seldom  n & Use Frequency	Duration			
N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	ı-One rsonal Protective Equi	N/A  N/A  Frequent  pment (PPE)  Frequency  N/A	N/A N/A Short Duration	Hours Worked Telework Eligible Category Motor	More than 40 hours/week More than 8 hours/day More than 5 consecutive days Yes  Equipment Operatio Type	Occasional Occasional Seldom  n & Use Frequency	Duration			
Fouch  N/A  Fouch  N/A  Fouch  N/A  Foreign	ı-One rsonal Protective Equi	N/A  N/A  Frequent  pment (PPE)  Frequency  N/A	N/A N/A Short Duration	Hours Worked Telework Eligible Category Motor	More than 40 hours/week More than 8 hours/day More than 5 consecutive days Yes  Equipment Operatio Type	Occasional Seldom  n & Use Frequency				
Fouch  Fouch  Fouch  Force  Category  N/A  Eye and Face Protection  Respiration Protection  Hearing Protection  Hard hard hard	sonal Protective Equi	N/A Frequent pment (PPE) Frequency N/A	N/A Short  Duration	Worked Telework Eligible Category Motor	More than 8 hours/day More than 5 consecutive days Yes  Equipment Operatio Type	Occasional Seldom  n & Use Frequency				
Couch  N/A  Per Category  N/A  Sye and Face Protection  Respiration Protection  Hearing Protection  Hard hard hard	sonal Protective Equi	Frequent  pment (PPE)  Frequency  N/A	Short  Duration	Worked Telework Eligible Category Motor	More than 8 hours/day More than 5 consecutive days Yes  Equipment Operatio Type	Occasional Seldom  n & Use Frequency				
Category  Category  N/A  Eye and Face Protection  Respiration Protection  Hearing Protection  Hearing Protection  Hard hard hard hard hard hard hard hard h	sonal Protective Equi	Frequent  pment (PPE)  Frequency  N/A	Short  Duration	Telework Eligible  Category Motor	More than 5 consecutive days Yes  Equipment Operatio Type	n & Use				
Category  Category  N/A  Eye and Face Protection  Respiration Protection  Hearing Protection  Hard hard hard hard hard hard hard hard h	sonal Protective Equi	Frequent  pment (PPE)  Frequency  N/A	Short  Duration	Eligible  Category  Motor	Yes  Equipment Operatio Type	n & Use Frequency				
Category  N/A Eye and Face Protection  Respiration Protection  Hearing Protection  Hard ha	sonal Protective Equi	pment (PPE) Frequency N/A	Duration	Eligible  Category  Motor	Equipment Operatio	Frequency				
Category  N/A Eye and Face Protection  Respiration Protection  Hearing Protection  Hard hard hard hard	sonal Protective Equi	pment (PPE) Frequency N/A	Duration	Category Motor	Туре	Frequency				
Category  N/A  Eye and Face Protection  Respiration Protection  Hearing Protection  Hard hard hard		Frequency N/A		Motor	Туре	Frequency				
Respiration N/A Protection N/A Protection N/A Hearing N/A Protection Hard hard	Туре	N/A		Motor	• •					
Respiration N/A Protection N/A Protection N/A Protection Hearing N/A Protection Hard hard hard hard hard hard hard hard h			N/A		Sedan/Pickup/Van	Occasional	Short			
Respiration N/A Protection N/A Protection N/A Hearing N/A Protection Hard hard hard hard hard hard hard hard h		N/A		Vehicles						
Respiration N/A Protection N/A Hearing N/A Protection Hard hard hard		N/A					•			
Protection Hearing N/A Protection Hard hard		N/A			N/A	N/A	N/A			
Protection Hearing N/A Protection Hard hard		N/A		Heavy						
Protection Hearing N/A Protection Hard hard		14//	N/A	Equipment						
Protection Hard ha			TW/ C	1.1						
Protection Hard ha		N/A	N/A		N/A	N/A	N/A			
Hard ha		IN/A	IN/A	Other	IN/A	IN/A	IN/A			
lead				Equipment or						
	at (impact protection)	Seldom	Short	Machinery						
Protection							<u> </u>			
					N/A	N/A	N/A			
Hand N/A		N/A	N/A	Hand-Held						
Protection				Power Tools						
Tottettion										
Steel/co	omposite toe-safety	Seldom	Short		N/A	N/A	N/A			
<b>Foot</b> rated		Seldom	SHOLL	Hand Tools	IN/A	IN/A	IN/A			
Protection				and						
				Instruments						
Traffic v	/est	Seldom	Short							
Body, Arm,				Office	Computer	Constant	Substantial			
and Leg				Machines &	'		-			
Protection			Equipment							
	Operator Licen				Commercial Driver's License					
NOTE: If CDL is	•					License				
required, show Standar	Type				VA DMV requires: 20/40 in each					
DL Class in	rd Driver's License				eye w/o telescopic lens & ≥140° N/A horizontal vision.					
element to				norizontai visior						
right.										

## **Mental Requirements**

Evaluate based on the level of complexity [least to most] inherent in the job using the examples provided; then select the number from the drop-down list that matches the column which best represents the mental demand required in each element.

Comprehend Verbal Communication - Understand information and directions which are provided verbally

Job requires the ability to understand and follow:

Complex information where the listener must analyze the information presented, discern the key facts vs. opinions, and make a determination on appropriate recommendation or action.

2 Communicate Orally - Verbally express thoughts and directions

Job requires:

Explaining and interpreting specialized, and sometimes sensitive, information to co-workers, customers, citizen groups or higher officials.

3 Comprehend and Follow Written Material or Instructions - Understand written material, interpret appropriately, and adhere to the procedures stated.

Job requires ability to comprehend:

Detailed written material such as analytical, statistical, or status reports where information will be interpreted and applied to course of action.

4 Written Communication Skills - Express thoughts and directions in writing

Job requires:

Written explanation and interpretation of specialized information to other City agencies, customers, higher officials and authorities.

5 Maintain an Appropriate Work Pace - The flow or rate of incoming work assignments and the expectations for completion of tasks

ob requires ability to adhere to work schedule:

In a fast paced environment where much of the work is new and nonrecurring.

6 Perform Complex or Varied Tasks - The variety of tasks and assignments and the level of complexity of those tasks/assignments

ob requires ability to perform:

A variety of tasks at the fully functional independent level.

7 Interact and Relate to Peers, Co-Workers, or the Public - The nature and level of interaction with others required of the job

lob requires interaction:

With a variety of individuals or groups outside the immediate unit/agency to collaborate on issues or projects.

8 Decision Making & Reasoning Ability - The extent to which the job requires logic to analyze information, draw conclusions/ generalizations, and make decisions based on facts

lob requires:

Considerable reasoning and decision making. Issues and/or data are interpreted and evaluated, alternatives are evaluated, and recommendations are made for resolution of issues.

9 Memory and Recall - The body of stored knowledge required and the retrieval of that information to accomplish duties

Job requires the ability to:

Remember information from broad bodies of knowledge (engineering, psychology, biology, law, etc.) and apply it to projects and assignments.

10 Flexibility and Adaptability - The extent to which one must adjust to changing circumstances and expectations, take on new challenges on short notice, and/or deal successfully with changing priorities and workloads

Job requires flexibility and willingness:

To adjust to non-typical conditions or situations where a new or different process/procedure must be utilized to accomplish work.

11 Attention Span - Sustained attention or the time spent continuously on task without becoming distracted to successfully perform duties

Job tasks are:

Varied, lengthy, and require considerable focus. Lapses may result in injury or legal or financial liability.

12 Attention to Detail - Thoroughness and accuracy are required to accomplish tasks

Job tasks:

Involve numerous and various details, some of which have subtle differences, that require continuous and close attention to detail to facilitate accuracy of outcome. Inattention to detail could result in legal or financial liability.

13 Reaction Time - Describes work that requires an immediate response or decision

Job requires the ability to:

Provide an immediate response/decision to situations outside of normal daily operations, procedures or processes. Delays occur if response is not timely.

14 Direct, Control, and Plan the Work of Others - Determine the time, place and sequence of work procedures, operations, and actions. Establish goals and objectives, motivate, and promote cooperation and teamwork in the work group

Job requires:

No supervision or management of staff.

15 Influence Others - Obtain cooperation from others to accomplish tasks and objectives

Job requires

Obtaining support and cooperation from citizens and outside groups to accomplish objectives.

16 Stress Tolerance - Ability to perform duties without anxiety when faced with difficulties. Having positive stress tolerance is being able to stay calm in situations of heavy workload, tight deadlines, and/or difficult customers

Job requires the ability to:

Tolerate typical work stressors such as deadlines or conflict and maintain composure.