Job Title: Civil Engineer

Department: Engineering

Immediate Supervisor: Senior Civil Engineer

Origination Date:	**07/01/2004**
Revision Date:	**01/04/2012**
Job Grade	**605**
FLSA Status	**Exempt**

BRIEF DESCRIPTION OF THE JOB:

Performs professional civil engineering work including design layout and plan review. Assignments provide opportunity for the application of independent judgement and initiative in the design or review of projects. Work is performed under the general supervison of a registered civil engineer who reviews work through conferences and inspections.

ESSENTIAL FUNCTIONS:

This information is intended to be descriptive of the key responsibilities of the position. The following examples do not identify all duties performed by any single incumbent.

	Physical Strength Code	ESSENTIAL FUNCTIONS
1	S	Performs, prepares, or responds to drafting, design calculations, technical reports, customer contacts, and fieldwork requests. Prepares or reviews engineering reports and discusses technical issues by reading and analyzing reports, researching similar documentation, writing summary reports with recommendations, interpreting technical information, and responding to inquiries. Performs case reviews for new developments to ensure compliance to City master plans, standards, and coordination with City capital improvement projects.
2	L	Coordinates projects with staff and developers by attending meetings, explaining City's position to developers, and evaluating other party's needs. Prepares letters, memos, specifications, and reports with clearly organized thoughts and using the proper sentence structure, punctuation, and grammar to communicate technical and controversial issues. Communicates with the general public; other city, state, and federal employees; vendors; management; consultants; and contractors regarding different programs such as the Engineering Department design and plan approval process and capital improvement projects.
3	L	Determines upon receipt of a project, the approach to be taken for completion, including elements assigned to subordinate personnel. Coordinates related workflow both within the city and with outside agencies. Supervises others by assigning work, selecting work methods, answering questions, and reviewing and approving engineering plans, related documents, and other work performed by professionals and paraprofessionals. Reviews construction plans for grading, sewer, water, storm drains, dry utilities, retention basins, drainage structures, street improvements, and street lighting. Reviews master water, sewer, drainage, and traffic reports for compliance to City requirements.

	Physical Strength Code	ESSENTIAL FUNCTIONS
4	L	Resolves construction field or office problems by visiting site to understand scope of problem, interpreting construction drawings or specifications, analyzing issues and implications of resolution, and conveying solutions to personnel.
5	S	Assists the Senior Civil Engineer with supervision of staff by providing direction to staff. Prioritizes own work and may prioritize and assign work to staff. Develops project specific requirements, procedures, and short- and long-term objectives regarding standards and design concepts.
6	S	Operates a City vehicle to perform field reviews of projects as well as to meet with outside agencies and utility companies. Operates a variety of standard office equipment. Enters data or information into a personal computer in order to prepare reports, perform calculations, and prepare drawings. Prepares bundles of plans, specifications, and reports for distribution and/or mailing to other city agencies and departments. Meets scheduling and attendance requirements.

JOB REQUIREMENTS:

JOB REQUIREMENTS	
Formal Education/ Knowledge	Work requires broad knowledge in a general professional or technical field. Knowledge is normally acquired through four years of college resulting in a Bachelor's degree or equivalent.
Experience	Minimum one year experience in a related field.
Certifications and Other Requirements	Valid Driver's License
Reading	Work requires the ability to read state statutes, federal laws, technical reports and manuals, research papers, construction plans and specifications, correspondence, and legal documents, ordinances, and property legal descriptions at a college level.
Math	Work requires the ability to perform math calculations such as advanced level algebra, geometry, trigonometry, and calculus.
Writing	Work requires the ability to write general correspondence, memorandums, handouts, letters, and technical engineering reports at a college level.
Managerial	Job has no responsibility for the direction or supervision of others but may provide advice/direction to an employee with less experience/skill or tenure.
Policy/Decision Making	Moderate - The employee normally performs the job by following established standard operating procedures and/or policies. There is a choice of the appropriate procedure or policy to apply to duties. More complex work as well as decisions with more significant impacts are typically reviewed prior to being finalized.
Budget Responsibility	Has no budgetary responsibility.
Technical Skills	Comprehensive Application - Work requires a comprehensive, practical knowledge of a technical field with use of analytical judgment and decision-making abilities appropriate to the work environment of the organization.
Interpersonal/Human Relations Skills	Moderate - In addition to the sharing of information, interactions at this level may also include providing advice to others outside direct reporting relationships on specific problems or general policies/procedures. In many of the interactions, contacts may require the consideration of different points of view to reach agreement. Elements of persuasion may be necessary to gain cooperation and acceptance of ideas.

City of Goodyear, Arizona

Physical Demands

Frequency Code Scale

N = Never	R = Rarely	O = Occasionally	F = Frequently	C = Constantly
Never occurs	Less than 1 hour/week	Up to 1/3 of the time	From 1/3 to 2/3 of the time	2/3 or more of the time

Physical Demand	Frequency Code (Mark only one)	Description: (Check all that apply)
Standing	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Making presentations ☒ Observing work site ☒ Observing work duties ☒ Communicating with co-workers
Fine Dexterity	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Computer keyboard ☒ Telephone keypad ☒ Calculator ☐ Calibrating equipment
Walking	☐ N ☐ R ☐ O ☒ F ☐ C	☒ To other departments/offices ☒ Around work site
Lifting	☐ N ☐ R ☒ O ☐ F ☐ C	☐ Supplies ☒ Equipment ☐ Files
Carrying	☐ N ☐ R ☒ O ☐ F ☐ C	☒ Supplies ☒ Equipment ☒ Files
Sitting	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Desk work ☒ Meetings ☒ Driving
Reaching	☐ N ☒ R ☐ O ☐ F ☐ C	☒ For supplies ☒ For files
Handling	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Paperwork ☐ Monies
Kneeling	☐ N ☒ R ☐ O ☐ F ☐ C	☒ Filing in lower drawers ☒ Retrieving items from lower shelves/ground
Crawling	☒ N ☐ R ☐ O ☐ F ☐ C	☐ Under equipment ☐ Inside attics/pipes/ditches

Physical Demand	Frequency Code (Mark only one)	Description: (Check all that apply)
Pushing/ Pulling	☐ N ☒ R ☐ O ☐ F ☐ C	☒ File drawers ☐ Equipment ☒ Tables and chairs ☐ Hoses
Climbing	☐ N ☒ R ☐ O ☐ F ☐ C	☒ Stairs ☐ Ladders ☐ Step stools ☐ Onto equipment
Vision	☐ N ☐ R ☐ O ☐ F ☒ C	☒ Reading ☒ Computer screen ☒ Driving ☒ Observing work site
Foot Controls	☐ N ☐ R ☒ O ☐ F ☐ C	☒ Driving ☐ Operating heavy equipment ☐ Operating Dictaphone
Balancing	☒ N ☐ R ☐ O ☐ F ☐ C	☐ On ladders ☐ On equipment ☐ On step stools
Bending	☐ N ☐ R ☒ O ☐ F ☐ C	☐ Filing in lower drawers ☒ Retrieving items from lower shelves/ground ☐ Making repairs
Crouching	☐ N ☒ R ☐ O ☐ F ☐ C	☐ Filing in lower drawers ☒ Retrieving items from lower shelves/ground
Hearing	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Communicating via telephone/radio, to co-workers/public ☐ Listening to equipment
Twisting	☐ N ☐ R ☒ O ☐ F ☐ C	☒ From computer to telephone ☒ Getting inside vehicle
Talking	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Communicating via telephone/radio, to co-workers/public
Other		(Explain)

Physical Demands (continued)

Machines, Tools, Equipment and Work Aids:

Vehicle, telephone, copier, scanner, plotter.

Computer Equipment and Software:

Personal computer, word processing, Excel, project scheduling, AutoCAD, GIS, Internet, Outlook, related software.

Environmental Factors:

Environmental Conditions	Never	Seasonally	Several Times Per Month	Several Times Per Week	Daily
Extreme temperature (heat, cold, extreme temp. changes from outside work)	☐	☒	☐	☐	☐
Wetness and/or humidity (bodily discomfort from moisture)	☒	☐	☐	☐	☐
Respiratory hazards (fumes, gases, chemicals, dust and dirt)	☒	☐	☐	☐	☐
Noise and vibration (sufficient to cause hearing loss)	☒	☐	☐	☐	☐
Physical hazards (high voltage, dangerous machinery, aggressive prisoners, patients – not customers)	☒	☐	☐	☐	☐

Health and Safety Conditions:

Health and Safety Conditions	N = Never	R = Rarely	O = Occasionally	F = Frequently	C = Constantly
	Never occurs	Less than 1 hour per week	1/3 or more of the time	From 1/3 to 2/3 of the time	2/3 or more of the time
Mechanical hazards	☒	☐	☐	☐	☐
Chemical hazards	☒	☐	☐	☐	☐
Electrical hazards	☒	☐	☐	☐	☐
Fire hazards	☒	☐	☐	☐	☐
Explosives	☒	☐	☐	☐	☐
Communicable diseases	☒	☐	☐	☐	☐
Physical danger or abuse	☒	☐	☐	☐	☐
Other (specify)	☐	☐	☐	☐	☐

Primary Work Location:

☒ Office Environment
☐ Warehouse
☐ Shop
☐ Vehicle
☐ Recreation Centers/Neighborhood Centers
☐ Outdoors
☐ Other (Specify)

_____

Protective Equipment Required:

Hard hat, safety vest.

Job Demands

Overall Strength Demands:

Overall Strength Demands	
☐ Sedentary	Exerting up to 10 pounds occasionally or negligible weights frequently; sitting most of the time.
☒ Light	Exerting up to 20 pounds occasionally, 10 pounds frequently, or negligible amounts constantly AND/OR walking or standing to a significant degree.
☐ Medium	Exerting 20-50 pounds occasionally, 10-25 pounds frequently, or up to 10 pounds constantly.
☐ Heavy	Exerting 50-100 pounds occasionally, 25-50 pounds frequently, or from 10 up to 20 pounds constantly.
☐ Very Heavy	Exerting over 100 pounds occasionally, 50-100 pounds frequently, or from 20 up to 50 pounds constantly.

Non-physical Demands:

Non-physical Demands	Frequently	Occasionally	Rarely	Never
Time Pressures	☒	☐	☐	☐
Emergency Situations	☐	☒	☐	☐
Frequent Change of Tasks	☒	☐	☐	☐
Irregular Schedule/Overtime	☐	☐	☒	☐
Performing Multiple Tasks Simultaneously	☒	☐	☐	☐
Working Closely with Others as Part of a Team	☒	☐	☐	☐
Tedious or Exacting Work	☐	☒	☐	☐
Noisy/Distracting Environment	☐	☐	☒	☐
Other (Describe below.)	☐	☐	☐	☐

EXPECTED BEHAVIOR:

Staff – Expected Behavior

The employee is expected to embrace, support, and promote the City's values, beliefs, and culture Which include but are not limited to the following:

- Be positive. Do not participate in gossip
- Maintain confidentiality
- Walk the talk – uphold and live the Goodyear culture
- Encourage positive feedback
- Be accountable – submit responses to all requests for information by due date and meet deadlines
- Support a learning culture
- Be on time for all meetings
- Create and implement ethical standards for your worksite
- Be fiscally responsible
- Support the City's values and mission
- Let common sense prevail
- Be visionary – anticipate issues
- Support organizational change
- Establish and maintain positive and effective working relationships with co-workers, supervisors, subordinates, contractors and vendors
- Understand City policies and procedures, make rational decisions/recommendations in accordance with established policy.
- Work in a safe manner and report unsafe activities and conditions. Follow the City-wide safety policy and everyone's responsibility. Make it a critical part of the day to day operations.
- Foster teamwork and actively participate on teams and in City activities
- Lead by example
- Provide outstanding customer service to internal and external customers

These traits are not basic job requirements but are expected behavior. Other duties and responsibilities will be performed as assigned.

SIGNATURES—REVIEW AND COMMENT:

I have reviewed this job analysis and its attachments and find it to be an accurate description of the demands of this job.

	_____	_____
	Signature of Employee	Date
_____	_____	_____
Job Title of Supervisor	Signature of Supervisor	Date
_____	_____	_____
Job Title of Department Director	Signature of Department Director	Date

Comments:_____

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The above statements are intended to describe the general nature and level of work being performed by individuals assigned to this job. They are not intended to be an exhaustive list of all responsibilities, duties, and skills required of personnel so classified in this position. This job description is subject to change as the needs and requirements of the job change.