

# **APPENDIX**

## **C**

### **ABBREVIATIONS, DEFINITIONS & TERMS**

# ABBREVIATIONS, DEFINITIONS AND TERMS

## ABBREVIATIONS - ORGANIZATIONAL

Wherever the following abbreviations are used in these Specifications, on the project plans or on the Standard Details, they are to be construed the same as the respective expressions represented:

AAA	Aluminum Alloy Association
AAMA	Architectural Aluminum Manufacturer's Association
AAN	American Association of Nurserymen
AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ADEQ	Arizona Department of Environmental Quality
ADOT	Arizona Department of Transportation
ADWR	Arizona Department of Water Resources
AEC	Arizona Electric Code
AGA	American Gas Association
AGC	Associated General Contractors of America
AIA	American Institute of Architects
AIEE	American Institute of Electrical Engineers
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALS	American Lumber Standards
AMCA	Air Movement and Control Association
ANSI	American National Standards Institute, Inc.
APA	American Plywood Association
APHA	American Public Health Association
ARA	American Railway Association
AREA	American Railway Engineering Association
ARS	Arizona Revised Statutes
ARTBA	American Road and Transportation Builders Association
ASA	American Standards Association
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigeration and Air Conditioning Engineers
ASHVE	American Society of Heating and Ventilating Engineers
ASLA	American Society of Landscape Architects
ASLD	Arizona State Land Department
ASME	American Society of Mechanical Engineers
ASRE	American Society of Refrigerating Engineers

# ABBREVIATIONS, DEFINITIONS AND TERMS

## ABBREVIATIONS - ORGANIZATIONAL

ASSE	American Society of Sanitary Engineering
ASTM	American Society for Testing and Materials
AWG	American Wire Gauge
AWI	Architectural Woodwork Institute
AWPA	American Wood Preservers' Association
AWPI	American Wood Preservers' Institute
AWS	American Welding Society
AWWA	American Water Works Association
AZI	American Zinc Institute
CISPI	Cast Iron Soil Pipe Institute
COE	U.S. Army Corps of Engineers
COTPC	City Of Tucson Procurement Code
CPI	Clay Pipe Institute
CRA	California Redwood Association
CRSI	Concrete Reinforcing Steel Institute
CS	Commercial Standards
DIPRA	Ductile Iron Pipe Research Association
EIA	Electronic Industries Association
EPA	Environmental Protection Agency
FCC	Federal Communications Commission
FED SPEC	Federal Specifications (See FSS)
FGJA	Flat Glass Jobber's Association
FHWA	Federal Highway Administration
FM	Factory Mutual
FSS	Federal Specifications and Standards, General Services Administration
IAL	Independent Approved Laboratory
IAPMO	International Association of Plumbing and Mechanical Officials
IEEE	Institute of Electrical and Electronic Engineers
IES	Illuminating Engineering Society
IMSA	International Municipal Signal Association
IPCEA	Insulated Power Cable Engineer's Association
IRI	Industrial Risk Insurers
ISA	Instrument Society of America
ITE	Institute of Transportation Engineers
MUTCD	Manual on Uniform Traffic Control Devices
NAAMM	National Association of Architectural Metal Manufacturers

# **ABBREVIATIONS, DEFINITIONS AND TERMS**

## **ABBREVIATIONS - ORGANIZATIONAL**

NACE	National Association of Corrosion Engineers
NBFU	National Board of Fire Underwriters
NBS	National Bureau of Standards
NCMA	National Concrete Masonry Association
NCPI	National Clay Pipe Institute
NCPRC	National Clay Pipe Research Corporation
NESC	National Electrical Safety Code
NEMA	National Electrical Manufacturer's Association
NFPA	National Fire Protection Association
NLMA	National Lumber Manufacturer's Association
NSF	National Sanitation Foundation
OSHA	Occupational Safety and Health Administration
PCA	Portland Cement Association
PLP	Plastic Laminate Producers
PPI	Plastic Pipe Institute
PS	Product Standard, Product Standard Section U.S. Department of Commerce
PUESR	Pacific Utilities Electrical Service Requirements
RMA	Radio Manufacturer's Association
SAE	Society of Automotive Engineers
SSPC	Steel Structures Painting Council
TCA	Tile Council of America
UBC	Uniform Building Code
UFC	Uniform Fire Code
UL	Underwriters' Laboratories, Inc.
UNI-BELL	UNI-BELL PVC Pipe Association
UPC	Uniform Plumbing Code
USC	University of Southern California
USS	United States Standard
WCLA	West Coast Lumberman's Association
WCLIB	West Coast Lumber Inspection Bureau
WIA	Woodwork Institute of Arizona
WWPA	Western Wood Products Association
USCFCCCHR	University of Southern California Foundation for Cross Connection Control and Hydraulic Research

## ABBREVIATIONS – OTHER

&	And	DIM	Dimension
@	At	DIP	Ductile Iron Pipe
Ø	Diameter	DK	Dark
'	Feet	DWG	Drawing
”	Inches	E	East
#	Number	EA	Each
		ECC	Eccentric
A	Amp	EF	Each Face
A/C	Air Conditioner	EL	Elevation
AB	Anchor Bolt	ELEC	Electric
ABC	Aggregate Base Course	ELECT	Electrical
AC	Alternating Current	ELEV	Elevation
ACB	Air Circuit Breaker	EQ	Equal
ACFM	Actual Cubic Feet per Minute	ES	Each Side
ACI	American Concrete Institute	EW	Each Way
ADJ	Adjacent	EXIST	Existing
ALUM	Aluminum	FE	Flow Element
ANOD	Anodized	FF	Finish Floor
APPROX	Approximately	FLEX	Flexible
BF	Blind Flange	FLG	Flange
BFV	Butterfly Valve	FNPT	Female National Pipe Thread
BL	Blue	FS	Flow Switch
BLD’G	Building	FT	Feet
BLK	Black	FT	Flow Transmitter
BR	Brown	GA	Gauge
C	Conduit	GAL	Gallon
CAB	Cabinet	GALV	Galvanize
CI	Cast Iron	GDN	Ground
CKT	Circuit	GFI	Ground Fault Interrupt
CL	Center Line	GR	Green
CL2	Chlorine Solution	HB	Hose Bibb
CLR	Clear	HOA	Hand-Off-Auto
CMU	Concrete Masonry Unit	HP	Horsepower
CNTL	Control	HT	Height
CO	Clean Out	Hz	Hertz
CONST	Construction	ID	Inside Diameter
CONT	Continuous	IN	Inch
CORP	Corporation	INT	Interior
CT	Current Transformer	INV	Invert
DIA	Diameter	J-Box	Junction Box

# ABBREVIATIONS, DEFINITIONS AND TERMS

## ABBREVIATIONS – OTHER

KVA	Kilovolt Amp	QTY	Quantity
LT	Level Transmitter	R	Radius
LTG	Lighting	RBPS	Report Back Pressure Switch
MAG	Magnetic	RE	Red
MAX	Maximum	REC	Recommendation
MCC	Motor Control Center	RED	Reducer
MFR	Manufacturer	REINF	Reinforcement
MG	Million Gallons	REQ'D	Required
MG	Motor Generator	RPM	Revolutions per Minute
MH	Manhole	RTM	Running Time Meter
MIN	Minimum	S	South
MOV	Motor Operated Valve	SCHED	Schedule
MTR	Motor	SCP	Station Control Panel
N	North	SIM	Similar
NC	Normally Closed	SPECS	Specifications
NEC	National Electric Code	SQ	Square
NO	Normally Open	SS	Stainless Steel
NO	Number	STA	Station
NPSHR	Net Positive Suction Head Required	STD	Standard
NPSHR	Net Positive Suction Head Required	STL	Steel
NPT	National Pipe Thread	TEL	Telephone
NTP	Notice to Proceed	TOF	Top of Footing
NTS	Not to Scale	TR	Timing Relay
OC	On Center	TYP	Typical
OD	Outside Diameter	UPS	Uninterruptible Power Supply
OHE	Overhead Electric	V	Volt
OPN'G	Opening	VAC	Voltage Alternating Current
OR	Orange	VERT	Vertical
PE	Plain End	VTR	Vent Through Roof
PI	Pressure Indicator	W	West
PL	Plate	W/	With
PP	Power Pole	W/O	Without
PRV	Pressure Regulating Valve	WH	White
PSH	Pressure Switch High	WP	Weatherproof, Waterproof
PSQ	Pump Shaft Quality	WWF	Welded Wire Fabric
PT	Potential Transformer	XFMR	Transformer
PVC	Polyvinyl Chloride	XMTR	Transmitter

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

Whenever in these specifications or in other contract documents the following terms or pronouns in place of them are used, the intent and meaning shall be interpreted as follows:

**Advertisement for Bids:** The public announcement, as required by law, inviting bids for work to be performed or materials to be furnished.

**Agency:** The City of Tucson.

**As-Built Drawing:** (See Record Drawings)

**Architect:** The individual or firm who has accomplished the architectural services for the project, including individuals representing the architect.

**Arizona Test Method:** The test method of the Arizona Department of Transportation that is in effect on the day the advertisement for bids for the work is dated.

**Award:** The acceptance by the City of Tucson Procurement Director or Agency of a bid to do work and/or furnish materials.

**Backfill:** Material placed in an excavated space to fill such space.

**Base Course:** The upper course of the granular base of a pavement structure, immediately below the pavement or the lower course of an asphalt concrete pavement structure placed in accordance with City of Tucson Specifications.

**Bedding:** Material placed in the area of an excavated trench from the bottom to one foot above the top of the pipe or conduit.

**Bid:** The offer of a bidder, on the prescribed form, to perform the work and to furnish the labor and materials at the prices quoted.

**Bid Amendments:** A supplement to any of the Contract Documents issued, in writing, after advertisement of but prior to the opening of bids for a Contract.

**Bid Bond:** The security furnished with a bid to guarantee that the bidder shall enter into the contract if the bid is accepted.

**Bidder:** An individual, partnership, firm, corporation, or any acceptable combination thereof, or joint venture submitting a bid.

**Bid Document:** The document which describes the construction and its location, the quantities and kinds of work to be performed or materials to be furnished, a schedule of items for which unit bid prices are invited, and any special provisions or requirements which vary from or are not included in the Standard Specifications.

**Bid Form:** The approved form on which the Agency requires bids to be prepared and submitted for the work, commonly called the bidding schedule.

**Bidding Schedule:** The prepared schedule, included as a part of the bid document, containing the estimated quantities of the pay items for which unit bid prices are invited.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Blue Stake:** The centralized contact point for scheduling the field location of utility lines within the limits of a project.

**Bond Issue Project:** A project financed from bonds issued by the City pledging credit or a revenue resource.

**Bridge:** A structure, including supports, erected over a depression or an obstruction, such as a highway, railway or water having a track or passageway for carrying traffic or other moving loads as well as an opening, measured along the center of the roadway, of more than 20 feet between undercopings of abutments or extreme ends of openings for multiple boxes.

**Bridge Project:** A project financed by funds from General Tax levies and shared revenue funds set aside in the annual budget adopted by the City Council.

**Budget Project:** A project financed by funds from General Tax levies and shared revenue funds set aside in the annual budget adopted by the City Council.

**Building Code:** A regulation adopted by a governing body establishing minimum standards of construction for the protection of the public health, safety, and welfare.

**Calendar Day:** Any day shown on the calendar, beginning at midnight, extending for a 24 hour period, and ending at midnight.

**Change Authorization:** A written order, issued by the engineer or duly authorized representative, to the contractor, to make changes in the work or to perform additional work or delete work, and establishing the conditions for adjustment in payment and/or adjustment in the time of completion.

**Change Order:** (See Supplemental Agreement)

**Channel:** A natural or artificial watercourse.

**City:** City of Tucson, a municipal corporation, organized and existing under and by virtue of the laws of the State of Arizona.

**Complete-in-Place:** Complete-in-place means that the payment shall be full compensation for all materials and work necessary to complete that portion of the contract in its entirety to the satisfaction of the Engineer, in accordance with the requirements of the plans and specifications. When the basis of payment states the work shall be paid for complete-in-place it shall be the contractor's responsibility to determine the elements necessary to complete the work. When the basis of payment includes a list of elements associated with the complete-in-place work, the list shall not be construed to limit the work to the listed elements.

**Completion Time:** The number of calendar days for completion of an act, including authorized time extensions. In case a calendar date of completion is shown in the proposal in lieu of the number of calendar days, the Contract shall be completed by that date. The time within which an act is to be done shall be computed by excluding the first and including the last day; and if the last day be Sunday or a legal holiday, that shall be executed.

**Construction:** The process of building, altering, repairing, improving, or demolishing any public structure, building improvement, or real property. Construction, for the purpose of this definition, does not include the operation, repair, or maintenance, of a routine nature, of existing structures, buildings, or real property.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Construction Project:** The erection, installation, remodeling, alteration, of durable facilities upon, under, or over the ground. This shall include, but is not limited to buildings, roadways, pumping equipment and utility pipes, lines, poles, or other structures.

**Contract Agreement:** The written agreement between the City of Tucson Procurement Director or Agency and the contractor setting forth the obligations of the parties thereunder, including, but not limited to, the performance of the work, the furnishing of labor and materials and the basis of payment.

**Contract Amendment:** A written supplement to any of the contract documents issued after advertisement of, but prior to the opening of, bids for a contract.

**Contract Amount:** The total amount to be paid the contractor for completion of the work specified in the Contract Documents within the contract time and to the satisfaction of the Engineer.

**Contract Documents:** The Contract Documents include the advertisement for bids, bid document, contract agreement and contract bond, certificate of insurance, standard specifications, special specifications, project plans, standard details, contract amendments and any supplemental agreements that are required to complete the construction of the work in an acceptable manner, including authorized extensions thereof, all of which constitute one instrument.

**Contract Time:** The number of working days or calendar days allowed for completion of the contract, including authorized time extensions.

The time in which the contract is to be completed shall be computed by excluding the first and including the last day; and, should the last day be a Sunday or a legal holiday, that day shall also be excluded.

In the case where a calendar date for completion is shown in the bid in lieu of the number of working or calendar days, the contract shall be completed by that date.

**Contractor:** The individual, partnership, firm, corporation, sole proprietorship, joint stock company, or joint venture, or any acceptable combination thereof, entering into a contract with the contracting Agency for performance of the prescribed work.

**Council:** The City Council which, by law, constitutes the legislative body of the entity.

**County:** Pima County, organized under, and existing by virtue of the laws of the State of Arizona.

**Culvert:** Any structure not classified as a bridge which provides an opening under the roadway.

**Days:** Unless otherwise designated, days shall be understood to mean calendar days.

**Easement:** A right to use or control the property of another for designated purposes or an interest in land owned by another that entitles its holder to specific limited uses.

**Emergency:** Unforeseen occurrences and combinations of circumstances involving the public welfare or the protection of work already done under the Contract Documents, or which endanger life or property and call for immediate action or remedy.

**Engineer:** The Engineer, appointed by the Agency, acting directly or through the Engineer's duly authorized representative, who is responsible for engineering supervision of the construction.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Equipment:** All machinery and equipment, together with the necessary supplies for upkeep and maintenance, and also tools and apparatus necessary for the proper construction and acceptable completion of the work.

**Extra Work:** An item of work not provided for in the contract as awarded but found essential to the satisfactory completion of the contract within its intended scope.

**Final Acceptance:** The calendar date when all items of work are 100% complete and all known defective work is corrected and the date upon which the warranty period commences and liability for liquidated damages ceases.

**Force Account:** Work paid for on a time and materials basis pursuant to Subsection 0109.0500.

**Free Draining Soil:** Free draining soil is herein defined as the ability of the adjacent trench walls to readily percolate the applied water within a minimal contact time. The determination whether the soil is adequately free draining shall be the responsibility of the Engineer.

**Grade Stakes:** Any stake used to establish a plan elevation on the ground.

**Highway, Street or Road:** A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.

**Holiday:** The legal holidays recognized by the City of Tucson.

**Independent Approved Laboratory:** A testing laboratory which has been approved by the Engineer to perform testing and which has been determined by the Engineer to be free from any conflict of interest.

**Inspector:** The Engineer's authorized representative assigned to make detailed inspections of contract performance.

**Interpretation of terms:** When not inconsistent with the context, words used in the present tense include the future, words in the singular number include the plural; and words in the plural number include the singular.

**Invitation for Bid:** All documents whether attached or incorporated by reference, which are used for soliciting bids in accordance with the procedures prescribed in Section 28-17 of the Procurement Code.

**Invitation for Bid Amendment:** A written supplement to any of the Contract Documents issued after advertisement of, but prior to the opening of, bids for a contract.

**Item (Pay Item):** A detail of work for which separate payment is made under the contract.

**Laboratory:** The testing laboratory of the Agency or any other testing laboratory which is certified or approved by the Agency.

**License:** Formal permission from a regulatory body or constituted authority to do work associated with the project.

**Lump Sum:** The term "lump sum" when used as an item of payment shall mean complete payment for the work described in the bid.

**Major Item:** Any item or work and/or materials having an original contract value which exceeds ten percent (10%) of the amount of the original contract.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Materials:** Any substances specified for use in the construction of the project and its appurtenances.

**Median:** The portion of the highway, street, or road which separates the traveled roadway from traffic flowing in opposite directions.

**Minor Informality:** Mistakes, excluding judgmental errors, that have a negligible effect on price, quantity, quality, delivery, or other contractual terms and the waiver or correction of such mistakes which do not prejudice other bidders.

**Neat Lines:** The lines defining the sides of an excavation to be paid for. Material removed beyond the neat line is over excavation.

**Nonpay Item:** An item of work for which no separate payment will be made under the proposal, but which must be included as an incidental cost associated with an item included in the proposal.

**Notice of Award:** Written notice to the contractor stating that the bid submitted to the contracting Agency together with all requested documents have been accepted.

**Notice of Intent to Award:** Written notice to the contractor stating the Agency's intention to enter into a contract for a particular project upon submittal and execution of all required documents by the contractor.

**Notice to Proceed:** Written notice to the contractor stating that the contractor is to commence work on the project and specifying the date on which the contract time begins and ends.

**Or Equal:** The equality of material, equipment and/or method offered by the contractor, supplier, or manufacturer in lieu of the material and/or equipment specified in the contract documents. The Procurement Director, acting through and with advice from the Engineer, shall be the sole judge as to whether a product is equal for the purpose of a particular project.

**Owner:** The word "Owner" refers to the City of Tucson, who has contracted for the work or for whom the work is being performed.

**Owner's Representative or Owner's Agency:** The authorized representative of the Owner, which may be an individual or a firm, the Engineer, or its assistants assigned to the project work, the project site, or any part thereof during the performance of the work by the Contractor and until final acceptance.

**Pavement:** Any surfacing of streets, alleys, sidewalks, courts, driveways, etc. consisting of mineral aggregate bound into a rigid or semi-rigid mass by a suitable binder such as, but not limited to, Portland cement or asphalt cement.

**Pavement Structure:** The combination of subbase, base course, and surface course placed on a subgrade to support the traffic load and distribute it to the roadbed. Subgrade, subbase, base course, and surface course are defined as follows:

Subgrade: The prepared and compacted soil immediately below the pavement structure and extending to such depth as will affect the structural design.

Subgrade Treatment: Modification of roadbed material by stabilization.

Subbase: One or more layers of specified or selected materials, of designed thickness, placed on the subgrade to support a base course.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

### **Pavement Structure: (cont.)**

Base Course: One or more layers of specified materials, of designed thickness, placed on a subbase course or a subgrade to support a surface course.

Surface Course: One or more layers of pavement structure designed to accommodate the traffic load, the top layer of which resists skidding, traffic abrasion and the disintegrating effects of climate. The top layer is sometimes called a "wearing course."

**Pay Item:** A detail of work for which separate payments are to be made under the Contract, as specified in the Proposal.

**Payment Bond:** The security provided by the contractor solely for the protection of claimants supplying labor and materials to the contractor or to subcontractors of the contractor.

**Performance Bond:** The security provided by the contractor solely for the protection of the contracting Agency and conditioned upon the faithful performance of the contract in accordance with the plans, specifications and conditions thereof.

**Permit:** The license to progress construction in public rights-of-way or easements as issued by the regulatory authority holding title to the right-of-way or easement; or on private property for which permission has been obtained from the owner of record of the property.

**Pima County/City of Tucson Standard Specifications and Standard Details for Public Improvements:** Specifications and details governing materials and quality of improvements or repairs constructed within public drainage easements or roadway rights-of-ways.

**Pipe:** A long hole surrounded by plastic, concrete, or metal centered around the hole. All pipe is to be hollow throughout its length. Do not use holes of different length than the pipe.

**Plans:** The official project plans, standard details and working drawings, or reproductions thereof, approved by the Engineer, which show the location, character, dimensions, and details of the work to be performed. All such documents are to be considered as a part of the plans whether or not they are reproduced in the bid document.

Standard Details: Drawings approved for repetitive use, showing details to be used where appropriate.

Project Plans: Specific details and dimensions peculiar to the work which are supplemented by the standard details insofar as they may apply.

Working Drawings: Supplemental design sheets, shop drawings, or similar data which the contractor is required to submit to the Engineer such as stress sheets, erection plans, falsework plans, framework plans, cofferdam plans, bending diagrams for reinforcing steel, computations or any other supplementary data required of the contractor.

**Plant:** The Contractor's and/or subcontractor's facilities, including but not limited to small tools and mobile equipment, located on and/or off-site, necessary for preparation of materials and prosecution of work for the project.

**Prebid Conference:** A scheduled meeting of prospective bidders and representatives of the Agency to review the Contract Documents.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Preconstruction Conference:** A scheduled meeting of the contractor and Engineer held prior to the commencement of work pursuant to Subsection 0108.0300.

**Principal:** The individual, firm, or corporation primarily liable on an obligation, as distinguished from a surety.

**Procurement Code:** Regulations, adopted by the City of Tucson, which govern the acquisition of goods and services by the City.

**Procurement Director:** Director of the City of Tucson Procurement Department and Administrator of the Procurement Code.

**Professional Engineer:** The term Professional Engineer or Registered Professional Engineer means a person who has been granted registration in one or more of the branches of engineering by the Arizona State Board of Technical Registration for Architects, Assayers, Engineers, Geologists, Landscape Architects and Land Surveyors, and is authorized to practice professionally in the State of Arizona. If a branch of engineering is included in the title, such as Professional Civil Engineer, registration in that branch shall be required.

**Profile Grade:** The trace of a vertical plane corresponding to the top surface of the proposed wearing surface or finished pipeline invert, usually along the longitudinal center line of the roadbed or pipeline. Profile grade means either elevation or gradient of such trace according to the context.

**Project:** The specific coordinated construction or similar undertaking identified by a single project number and bid and awarded as one contract. On occasion two or more projects may be bid and awarded as a single project.

**Project Plans:** Specific details and dimensions peculiar to the work which are supplemented by the Standard Details insofar as they may apply.

**Project Representative:** The Engineer's authorized representative assigned to make detailed inspections of Contract performance.

**Proposal:** The offer of a bidder, on the prescribed form, to perform the work and to furnish the labor and material at the prices quoted.

**Proposal Form:** The approved form on which the Contracting Agency requires bids to be prepared and submitted for the work.

**Proposal Guarantees:** The security furnished with a bid to guarantee that the bidder will enter into the contract if its bid is accepted.

**Reasonably Close Conformity:** Reasonably close conformity means compliance with reasonable and customary manufacturing and construction tolerances where working tolerances are not specified. Where working tolerances are specified, reasonably close conformity means compliance with such working tolerances. Without detracting from the complete and absolute discretion of the Engineer to insist upon such tolerances as establishing reasonably close conformity, the Engineer may accept variations beyond such tolerances as reasonably close conformity where they will not materially affect the value or utility of the work and the interests of the Agency.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Reclaimed Water Works (Reclaimed Water System):** The storage facilities, pipelines, pumping equipment, mains, service pipes and all related appliances and appurtenances utilized in the transportation, storage, and delivery of reclaimed water.

**Record Drawings:** Record photo-mylar three (3) mls. thickness drawings prepared by contractor or engineer and kept current with the progress of the work which clearly show the work constructed and any variations from the plans.

**Referenced Documents:** On all work authorized by the Agency, any referenced documents in the specifications, (i.e.; Bulletins, Standards, Rules, Methods of Analysis or Test, Codes and Specifications of other Agencies, Engineering Societies or Industrial Associations) refer to the latest edition thereof, including amendments, which are in effect and published at the time of Advertisement for Bids or the issuing of a permit for the work. In the event of a conflict or overlapping regulations, the most restrictive shall apply.

**Registered Land Surveyor:** A person who has been granted registration in Land Surveying by the Arizona State Board of Technical Registration for Architects, Assayers, Engineers, Geologists, Landscape Architects and Land Surveyors, and who is authorized to practice professionally in the State of Arizona.

**Regulatory Authority:** The Agency having jurisdiction over the area of construction.

**Repetition of Expressions:** In order to avoid cumbersome and needless repetition of such phrases as "to the Engineer" and "by the Engineer" throughout the specifications, it shall be understood that when an order, instruction, decision, exercise of judgement or other similar action is indicated, such order, instruction, decision, exercise of judgement or other similar action will be issued, given, made by or reserved to the Engineer.

**Right-of-Way:** A general term, denoting land, property or interest therein, usually in a strip, acquired for or devoted to transportation or other public works purposes.

**Road:** A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.

**Roadbed:** The graded portion of a highway within top and side slopes, prepared as a foundation for the pavement structure and shoulders.

**Roadside:** A general term denoting the area adjoining the outer edge of the roadway. Extensive areas between the roadways of a divided highway may also be considered roadside.

**Roadside Development:** Those items necessary to the complete highway which provide for the preservation of landscape materials and features; the rehabilitation and protection against erosion of all areas disturbed by construction through seeding, sodding, mulching, and the placing of other ground covers; such suitable planting and other improvements as may increase the effectiveness and enhance the appearance of the highway.

**Roadway:** That portion of a highway, street, or road right-of-way required for construction, limited by the outside edges of slopes, including ditches, channels and all structures pertaining to the work.

**Roadway Prism:** The roadway prism is defined as the area used as the traveled road plus any shoulders (up to eight feet (8') width) and the area one-half the depth of the trench from the outside edge of the shoulder.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Service Line:** Pipe that carries water from the water line to the water meter.

**Sewage:** Water borne wastes.

**Sewer:** Any conduit and related appurtenances employed to collect and carry off water and waste matter to a suitable point of final discharge.

**Shop Drawings:** Drawings or reproductions of drawings detailing fabrication and erection of structural elements, falsework and forming for structures; fabrication of reinforcing steel; installed equipment and installation of systems; or any other supplementary plans or similar data which the Contractor is required to submit for review and acceptance.

**Shoulder:** The portion of the roadway contiguous with the traveled way for accommodation of stopped vehicles, for emergency use and for lateral support of base and surface courses.

**Sidewalk:** That portion of the roadway primarily constructed for the use of pedestrians.

**Special Provisions:** Additions and revisions to the Standard Specifications covering conditions and requirements peculiar to an individual project.

**Special Specifications:** Additions and revisions to the Standard Specifications covering conditions and requirements peculiar to an individual project.

**Specifications:** The compilation of provisions and requirements for the performance of prescribed work.

**Specified Completion Date:** The date on which the contract work is specified to be completed.

**Standard Details:** Drawings approved for repetitive use, showing details to be used where appropriate.

**Standard Specifications:** A book of specifications approved for general application and repetitive use.

**Storm Drain:** Any conduit and appurtenances intended for the reception and conveyance of storm water.

**Street:** Streets, avenues, alleys, highways, crossings, lanes, intersections, courts, places, and grounds now open or dedicated or hereafter opened or dedicated to public use and public ways.

**Structures:** Bridges, culverts, catch basins, drop inlets, retaining walls, manholes, endwalls, buildings, sewers, service pipes, under drains, foundation drains, and other features which may be encountered in the work and not otherwise classed herein.

**Subbase:** The lower course of the base of a roadway, immediately above the subgrade.

**Subcontractor** - An individual, partnership, firm, corporation, or joint venture or any acceptable combination thereof, to which the contractor sublets a part of the Contract.

**Subgrade:** The supporting structures on which the pavement and its special undercourses rest.

**Substantial Completion:** Written notice to the contractor stating that the Agency acknowledges the readiness of the project or portions thereof for beneficial occupancy or use.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Substructure:** All of that part of the structure below the bearings of simple and continuous spans, skewbacks for arches, or tops of footings of rigid frames, together with the backwalls, wingwalls, and wing protection railings.

**Superintendent:** The contractor's authorized representative in responsible charge of the work.

**Superintendent of Streets:** The individual duly appointed by the City Council or Board of Supervisors, as provided by A.R.S. §§ 48-501, 48-571 and 48-901.

**Supplemental Agreement:** A written agreement made and entered into by and between the Agency and the contractor covering work not otherwise provided for; revisions in or amendments to the terms of the contract; or conditions specifically prescribed in the specifications as requiring a supplemental agreement. Such contract agreement shall become a part of the contract when approved and properly executed. The Supplemental Agreement shall establish the conditions for adjustment in payment and/or adjustment in the time of completion.

**Supplemental Specifications:** Additions and revisions that are adopted subsequent to issuance of Tucson Water's Standard Specifications & Details, latest revision.

**Supplier:** One who fabricates, or processes an item off the project site, and who may or may not deliver this to the project. For purposes of this definition, a supplier shall not include one who establishes a fabricating process or facility expressly for use of the project, whether on or off the project site; or one who performs work on the project site that is incorporated into the project.

**Surface Course:** The finish or wearing course of an asphalt concrete pavement structure.

**Surety:** The corporate body bound with and for the contractor, for the full and complete performance of the Contract and for payment of all debts pertaining to the work.

**Titles and Headings:** The titles or headings of sections and subsections are intended for convenience of reference and shall not be considered as having any bearing on their interpretation.

**Township, Town or District:** A subdivision of the county used to designate or identify the location of the proposed work.

**Traveled Way:** The portion of the roadway for the movement of vehicles, exclusive of shoulders and auxiliary lanes.

**Treatment Plant Works:** The collection system treatment facilities, ponds, and effluent pipe or channels, and all related incidental and appurtenant facilities and equipment for the collection, purification, and disposal of sanitary sewage.

**Utility:** Pipelines, conduits, ducts, transmission lines, overhead or underground wires, railroads, storm drains, sanitary sewers, irrigation facilities, street lighting, traffic signals, fire alarm systems, and appurtenances of public utilities and those of private industry, businesses, or individuals solely for their own use or use of their customers which are operated or maintained in, on, under, over or across public right-of-way or public or private easement.

**Warranty:** A guarantee by the contractor to repair or replace defective work pursuant to Subsection 0106.1100.

# ABBREVIATIONS, DEFINITIONS AND TERMS

## DEFINITIONS AND TERMS

**Wastewater Works (Sewerage System):** The collection system, treatment facilities, ponds and effluent pipe or channels, and all related incidental and appurtenant facilities and equipment for the collection, purification, and disposal of sanitary sewage.

**Waterlines:** Part of the water distribution system including pipe, pipe fittings, valves, and other appurtenances.

**Water Works (Water System):** The reservoirs, pipelines, wells, pumping equipment, treatment plant, mains, service pipes, and all related appliances and appurtenances utilized in the procurement, transportation and delivery of potable water supply.

**Work:** Work shall mean the furnishing of all labor, materials, equipment and other incidentals necessary or convenient to the successful completion of the project and the carrying out of all the duties and obligations imposed by the Contract.

**Work Order:** A written communication, signed by the Engineer, of a contractual status requiring performance by the contractor without negotiation of any sort.

**Working Day:** A calendar day, exclusive of Saturdays, Sundays and Agency recognized holidays on which weather and other conditions, not under the control of the contractor, permit construction operations to proceed for the major part of the day with the normal working force engaged in performing the controlling item or items of work in progress at that time.

**Working Drawings:** Supplemental design sheets, shop drawings, or similar data which the contractor is required to submit to the Engineer such as stress sheets, pipe layout schedules, erection plans, falsework plans, framework plans, cofferdam plans, bending diagrams for reinforcing steel, computations or any other supplementary data required of the contractor.