

Manhole – Pressure Tap (S-511) Checklist

KIVA #:	Proiect Name:	
		Date:
Professional Engineer:	· · · · · · · · · · · · · · · · · · ·	Phone:
Pressure Tap (S-511) plans Designs Standards Manual This checklist serves to mir reviewers on plans for conrupublic Right-Of-Way). Plan the comments made on the themselves of the complete A completed checklist must review. The following Certithat all applicable requirem	s. The source of the Manhole - Prest for Water and Wastewater Systems nimize redline comments on the check necting a private sewer to a manhole approval, issuing permits, and certal check prints and this checklist. The eness and accuracy of the design. It be attached to the Manhole - Pressification Statement must be signed by ents on this checklist have been meters and/or approvals are valid for 180	ck prints and to maintain consistency among plan, by tap under pressurized flow (located in the in grading clearances depend on compliance with professional engineer of record shall satisfy ure Tap (S-511) plans when submitted for first y the Professional engineer of record certifying
pian reviews.	CERTIFICATIO	ON .
STANDARDS, INCLUDING ADDITION, I CERTIFY TH. ARE PROPERLY ADDRESS	FERENCED PLANS COMPLY WITH FEDERAL, STATE AND COUNTY AT THIS CHECKLIST HAS BEEN C SSED. I UNDERSTAND THAT IF I I LANS MAY BE IMMEDIATELY RET	ALL APPLICABLE CITY ORDINANCES AND REQUIREMENTS AND REGULATIONS. IN COMPLETED ENSURING ALL ITEMS LISTED FAIL TO ADDRESS ALL APPLICABLE ITEMS IN TURNED TO ME WITHOUT ANY FORMAL
Professional Engineer's Na	me:	
Professional Engineer's Sig	gnature:	Date:
	n this checklist and the check prints w nould be directed to the plan reviewe	ith each submittal. Discussion of redline comments r listed above.
(Not Applicable).	· · · · —	s in the <u>first</u> column as either (Addressed) or equired) when requirements have not been properly

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REQUIRED SUBMITTALS

ENG RVW				
		Plan sheets shall be 8 ½" X 11"; submit four (4) sets of Manhole – Pressure Tap (S-511) plans, a sealed cost estimate, Utility Conflicts OR print the Utility Conflict Disclaimer on the cover sheet (if work is done on a local or residential street only), and a completed and signed Manhole – Pressure Tap (S-511) Checklist.		
Note: If submitting through the Electronic Plan Review system, multiple copies of submittal documents are not				
requi	ieu.	GENERAL REQUIREMENTS ON PLAN:		
		Provide the information, as required, on city of Phoenix Standard Detail S-511. The S-511 Detail can be located at the following website: http://phoenix.gov/waterservices/design/engdetails/index.html .		
		Symbols shall be per M.A.G. Specifications and Details supplemented by Water Services Department Details.		
		Orientation of each plan sheet shall be shown by a north arrow and scale of drawing. (North arrow to be up or to the right)		
		The plan shall have the Civil Professional engineer's Arizona registration seal with the original signature and date prior to any plan submittal.		
		All plan sheets shall be sufficiently clear to allow legible prints to be reproduced from microfilm. The size of lettering and symbols shall be 1/8 inch minimum. Shading or zip tape is not permitted. Refer to Water Services Department Design Standards Manual (P-69) for information required on record drawings ("As-Builts").		
		Indicate whether the manhole is to be constructed or already exists.		
		When building a new manhole, if the manhole lid is to be placed in a gutter line, please refer to M.A.G. Detail 421 for Offset Manholes.		
		A flexible coupling per the Uniform Plumbing Code Chapter 7, Section 719.6 shall be placed within 12"-36" from the outside of the manhole.		
		The tap invert elevation shall be from 0"-12" to the crown elevation of the existing main.		
		If the existing sewer main that is to be used as a point of outfall is 15" or larger, contact Water Services Departments at 602-534-2297 for further information prior to submitting to the city of Phoenix Planning & Development Department for plan review.		
		This project may be subject to Sanitary Sewer repayment as redlined on the plans. For any questions, contact Civil Permits/Water Services at 602-262-6551.		
		Contractor is to verify and show utility crossings on this plan.		
		Discussion of redline comments on plans or this checklist, should be directed to the plan reviewer.		
		Return four (4) bond copies for subsequent reviews with the redline check prints and this checklist to Payments and Submittals, 2 nd Floor of City Hall.		
		PLAN NOTES: ALL notes to be included on the plan sheet All construction shall be performed in compliance with all applicable uniform standard details and specifications for public works construction of Maricopa Association of Governments (M.A.G.) and the city of Phoenix Supplemental Standard Details and Specifications (newest edition and as modified hereon).		

ENG	RVW	
		Verify location of crossing utilities in the Right-Of-Way/easement in the location plan view.
		Per UPC Chapter 7 Section 719.6, the manhole inlet and the force main outlet connections shall be joined using a flexible compression joint. The closure shall occur between 12 inches (0.3M) and 3 feet (0.9M) outside the manhole. No flexible compression joints shall be embedded in the manhole base.
		All force main is private pipe from the manhole to the point of connection. The pressure tap located in the city of Phoenix Right-Of-Way or public easement shall be reviewed and permitted through Planning & Development Department Building Safety. Private pipe in the city of Phoenix Right-Of-Way or easement shall require a revocable permit, issued by the Street Transportation Department. If the service pipe is perpendicular to the Right-Of-Way, a revocable permit is not required.
		All elevations shown here are relative to each other.
		Invert of the proposed wastewater tap shall be equal to or higher than the crown of the existing main. For existing manholes reconstruct the base to match the detail.
		The interior of all manholes newly constructed or existing shall be painted with insecticide paint per city of Phoenix Supplement to M.A.G. Section 627. Paint shall be applied after corrosion coating is applied if required.
		All manholes on pipe 15 inches and larger or greater than 12 feet in depth shall be corrosion coated per city of Phoenix Supplement to M.A.G. Section 626. Any coating damage caused by tapping operations to existing manholes, the contractor shall repair the coating per the manufacturer's instructions as indicated in the city of Phoenix Supplement.
		Traffic regulations shall be per city of Phoenix "Traffic Barricade Policy".
		Compaction shall comply with M.A.G. Section 601, 95% minimum in a public street.
		A pavement cut surcharge will be assessed to this project for trenching in newly paved or newly overlaid pavement.
		Pavement replacement thickness and type are to be per M.A.G. Section 336 and C.O.P. Detail P1200 - Type B. Curb and gutter replacement shall be a minimum of one (1) full section, per M.A.G. Standard Detail 220. Sidewalk replacement shall be a minimum of one (1) full panel per C.O.P. Detail P1230. At the discretion of the city of Phoenix Planning & Development offsite inspector, tunneling under existing curb and gutter, in city of Phoenix R.O.W., will be allowed. Tunneling under existing sidewalk will not be allowed in the city of Phoenix R.O.W.
		Plan approval is valid for 180 days. Prior to plan approval expiration, all associated permits shall be purchased or the plans shall be resubmitted for extension of plan approval. The expiration, extension, and reinstatement of Civil Engineering plans and permits shall follow the same guidelines as those indicated in the Phoenix Building Construction Code Administrative Provisions Section 105.3 for Building permits.
		Per the city of Phoenix Ordinance G-4396, this plan is for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the city of Phoenix.
		Utility conflicts from appropriate utility companies or print disclaimer (for local or residential streets only) on plan signed and sealed by professional engineer – attached with 1st review comments.

ENG	RVW	
		The following disclaimer can only be used for local or residential streets. Do not use for major or collector streets:
		I hereby certify that all utility companies with facilities in the area of this project have been contacted and the data provided is shown on this plan. I agree to indemnify, defend, save and hold harmless the city of Phoenix, its officers, officials, agents, employees and volunteers from any and all claims, demands, actions, liabilities, damages, losses, or expenses incurred for any utility conflicts that may arise.
		Professional engineer's Signature and seal Date
		PLAN REQUIREMENTS:
		Provide project information at the top of the plan including Project/KIVA #, Quarter Section #, Project Name, and location.
		All manholes newly constructed or existing that are worked in for connections shall be painted with insecticide paint per city of Phoenix Supplement to M.A.G. Section 627.
		All five foot (5') manholes shall be coated per city of Phoenix Supplement to M.A.G. Section 626. Any existing manholes with corrosion coating that are disturbed or adjusted to new finish grades shall have any damaged coating repaired, including all adjusting rings.
		Provide the Blue stake notification decal.
		Elevation datum and bench marks (city datum required). Please dial (602) 495-2050, ext. 265 Voice or (602) 534-5500 TTY, to obtain city datum for existing benchmark closest to the project site. Equations cannot be used.
		Include a material list on the S-511 Standard Detail.
		Draw a tap location sketch on back of Standard Detail S-511, or on separate 8 $\frac{1}{2}$ x 11 sheet, to provide street names, right-of-way width, easement dimensions, existing utilities with dimensions from monument line, flow arrows, and location of manhole to be tapped (provide existing manhole number). If a new manhole is to be constructed, provide a dimension from the nearest downstream manhole.
		Arizona Registered Sanitary or Civil Professional engineer's seal, original signature, name, address and phone number shall be included on the plan.
		Provide an As-built Certification as follows:
		AS-BUILT CERTIFICATION:
		I hereby certify that the "Record Drawing" measurements as shown hereon were made under my supervision or as noted and are correct to the best of my knowledge and belief.
		Registered Engineer Date
		Registration Number

ADVISORY:

ENG	RVW	A pavement cut surcharge may be assessed on this project for trenching in new asphalt pavement or overlay. This fee may assessed in addition to the regular permit fees and is over and above any special backfill, compaction, and pavement replacement stipulations that may be imposed as a condition of permitting. Surcharge affects streets newly paved and newly overlaid.
		PLANS FOR REVISION
		All original plan approvals, signatures, and seals are to remain on the revised plans.
		All plans revised after the original approval shall be resubmitted for review and approval. The nature of the revisions must be called out on the cover sheet and on the sheet(s) which have been revised. The revision number itself shall consist of a numeral within a triangle next to each revision. Δ Changes on each plan sheet shall be highlighted with "clouding".
		All revised sheets, including the cover sheet are to be re-sealed, signed and dated.
		<u>EXTENSIONS</u>
		All plans submitted for extension require a new signature block and are to be re-signed by the submitting designer. Plan extensions are to be highlighted with "clouding" as specified in the plan revision process above. The plan sealant shall note that this change is a plan extension. A new approval signature block is required to be added to the coversheet for approval of the extension. All plan extensions must have prior approval by completing the Plan Review Extension Application. The Plan Review Extension Application can be found at the following site: http://phoenix.gov/pdd/development/sitecivil/civil/index.html . Provide a copy of the approved application with the plan submittal.
		Plan approvals for extension are valid for a period of 180 days from the date of plan approval.