



PROJECT NAME: \_\_\_\_\_ LOCATION: \_\_\_\_\_

PROJ / KIVA / CCPR / CSPR / WSPR #: \_\_\_\_\_

Q.S.#: \_\_\_\_\_

**MANHOLE INFO**

DISTANCE TO NEAREST EXISTING  
 DOWNSTREAM MANHOLE \_\_\_\_\_ LF

INDICATE EXISTING DOWNSTREAM  
 MANHOLE NO. \_\_\_\_\_

EXISTING MANHOLE NO. \_\_\_\_\_

INSTALL NEW MANHOLE

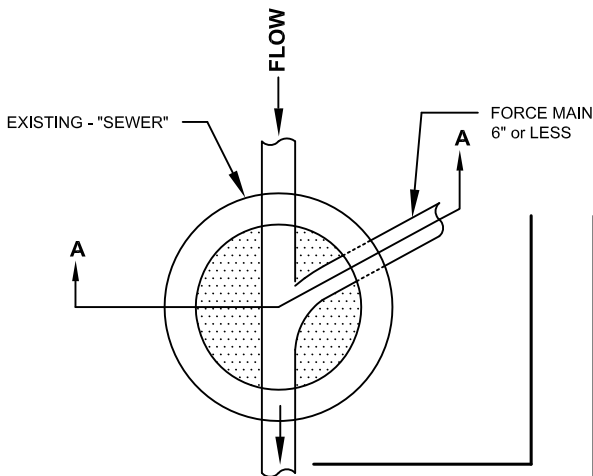
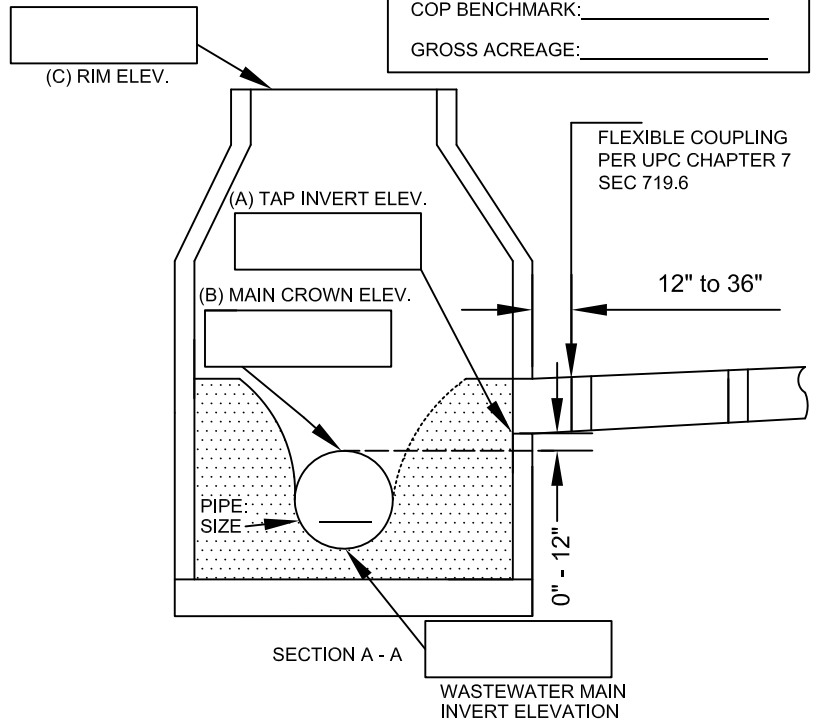
**MATERIAL LIST IN ROW OR EASEMENT**

PIPE (SIZE / TYPE) \_\_\_\_\_ LF

PAVEMENT REPLACEMENT \_\_\_\_\_ SY

SIDEWALK \_\_\_\_\_ SF

CURB & GUTTER \_\_\_\_\_ LF



**RECORD DRAWING 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 # \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE #: \_\_\_\_\_

**CALL TWO WORKING DAYS BEFORE YOU DIG**  
 602-263-1100  
 1-800-STAKE-IT

LOCATION PLAN VIEW

For City Use Only:

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Dept. Approval  P&D  WSD

Plan Reviewer \_\_\_\_\_



City of Phoenix - Water Services Dept / Planning & Development Dept  
Wastewater Manhole Force Main Tap (6" or Less) **Standard Detail S-511**

PROJECT NAME: \_\_\_\_\_ LOCATION: \_\_\_\_\_

PROJ / KIVA / CCPR / CSPR / WSPR # \_\_\_\_\_

**S-511 CONSTRUCTION NOTES**

ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE UNIFORM STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AND THE CITY OF PHOENIX (COP) SUPPLEMENTAL(SUPPL) STANDARD (STD) DETAILS (DTL) AND SPECIFICATIONS.

VERIFY LOCATION OF CROSSING UTILITIES IN THE RIGHT OF WAY (ROW) / 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 ROW OR PUBLIC EASEMENT SHALL BE REVIEWED AND PERMITTED THROUGH PLANNING AND DEVELOPMENT DEPARTMENT BUILDING SAFETY. PRIVATE PIPE IN THE CITY OF PHOENIX ROW 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 BASE TO MATCH DETAIL.

THE INTERIOR OF ALL MANHOLES NEWLY CONSTRUCTED OR EXISTING SHALL BE PAINTED WITH INSECTICIDE PAINT PER COP SUPPL TO MAG SEC 627. PAINT SHALL BE APPLIED AFTER CORROSION COATING IS APPLIED, IF REQUIRED.

ALL NEW MANHOLES ON PIPE 15-INCHES AND LARGER, OR GREATER THAN 12 FEET IN DEPTH, SHALL BE CORROSION COATED PER COP SUPPL TO MAG SEC 626. ANY COATING DAMAGE CAUSED BY TAPPING OPERATIONS TO EXISTING MANHOLES, CONTRACTOR SHALL REPAIR COATING PER THE MANUFACTURER'S INSTRUCTIONS AS INDICATED IN THE COP SUPPL.

TRAFFIC REGULATIONS SHALL BE PER CITY OF PHOENIX "TRAFFIC BARRICADE POLICY."

COMPACTION TO COMPLY WITH MAG SPEC 601- 95% MINIMUM IN A PUBLIC STREET.

A PAVEMENT CUT SURCHARGE MAY BE ASSESSED TO PROJECTS TRENCHING IN NEWLY PAVED OR OVERLAID PAVEMENT.

PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG SEC 336, COP STD DTL P1200 TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DTL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER COP DTL P1230. AT THE DISCRETION OF THE COP INSPECTOR. TUNNELING UNDER EXISTING CURB AND GUTTER, IN COP ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE COP ROW.

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 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.

**THE FOLLOWING DISCLAIMER CAN ONLY BE USED FOR LOCAL OR RESIDENTIAL STREETS. FOR MAJOR AND COLLECTOR STREETS, UTILITY CONFLICT NOTICES SHALL BE PROVIDED:**

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.

\_\_\_\_\_  
ENGINEER'S SIGNATURE, SEAL AND DATE