



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

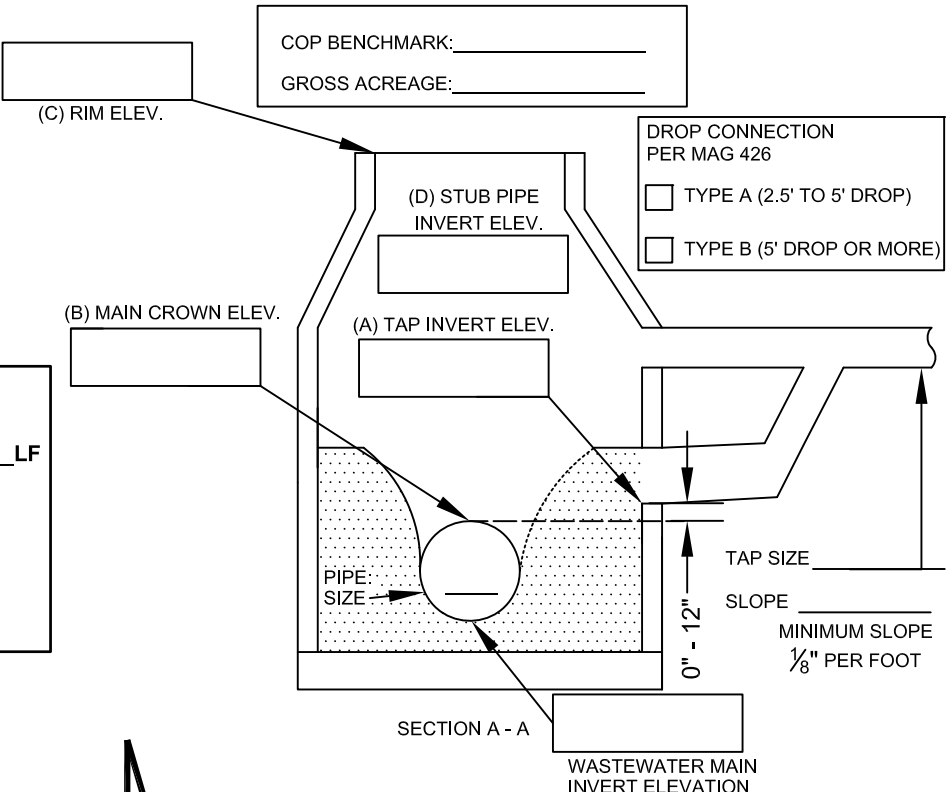
PAVEMENT REPLACEMENT \_\_\_\_\_ SY

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

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

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

LOCATION PLAN VIEW



COP BENCHMARK: \_\_\_\_\_  
 GROSS ACREAGE: \_\_\_\_\_

DROP CONNECTION  
 PER MAG 426  
 TYPE A (2.5' TO 5' DROP)  
 TYPE B (5' DROP OR MORE)



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

**For City Use Only:**

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

Dept. Approval  P&D  WSD

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

ENGINEER'S SEAL

AS-BUILT SEAL



City of Phoenix - Water Services Dept / Planning & Development Dept  
Gravity Wastewater "Drop Connection Tap" Manhole **Standard Detail S-512D**

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

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S-512D 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.

THE NEW TAP SHALL BE VITRIFIED CLAY PIPE OR DUCTILE IRON PIPE WITH PROTECTO 401 CERAMIC EPOXY LINING WITH A MINIMUM REQUIRED SLOPE OF 1/8 INCH PER FOOT.

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 MANHOLES ON PIPE 15-INCHES AND LARGER OR GREATER THAN 12 FT 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 SHALL 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 STD 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