City of Chandler Utility Permit Manual

Requirements for Working in the City Rights-of-Way and Utility Easements

UDM-148

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Where Values Make The Difference

Transportation & Development Department
Engineering Division
215 E. Buffalo Street
Chandler, Arizona 85225

February 2012

I. PURPOSE

The purpose is to describe the requirements for securing a permit for utility construction in the public rights-of-way.

The City of Chandler grants permissions for locating existing utilities and for construction or maintenance work in Public Rights-of-Way (ROW) and Public Utility Easements (PUE) by issuance of a permit per Section 46.2 of the Chandler City Code.

The City of Chandler administers planning, permitting, and construction process in accordance with Arizona Utility Coordinating Committee (AUCC) Public Improvement Project Guide, the *Maricopa Association of Governments (MAG) uniform standard specifications, and City of Chandler Supplement to the MAG.*

Permits (and/or/annual blanket permits) are necessary to assure that all utilities are constructed; in proper location with adequate spacing, built in accordance with current specifications, and liability issues properly addressed. Permits are also required for maintenance, access, and locating existing facilities.

Engineered construction drawings (plans) must be submitted for review. The objective is to make optimum utilization of the space available in the public rights-of-way and public utility easements, to assure compliance with all City policies and specifications, to coordinate with other utility companies, agencies, and City Project activities, and to reduce the risk and/or inconvenience to the public.

II. PERMIT PROCESS – OVERVIEW

A permit application for Construction in Public Rights-of-Way and Public Utility Easements and associated documents are submitted to the City of Chandler, Transportation and Development Department (215 East Buffalo Street) together with a minimum of three (3) sets of construction drawings, details, notes, pictures, etc.

Upon receiving the application and appropriate drawings, details, notes, etc., City staff will log the request into the City's automated permit system and route the documents for technical review.

This review includes checking for compliance with construction standards, approving alignments, verifying that the work is in the public rights-of-way or public utility easement, determining if other work is occurring at the same time or site, verifying that all joint trench opportunities have been incorporated into the design, checking for conflicts, determining if the work is proposed in newly paved streets or alleys, verifying that proper pavement replacement or bore requirements have been incorporated into the plans, and verifying that all City requirements have been met. The City requires that all permitted projects comply with the Arizona Utility Coordinating Committee project models, including the Joint Trench Use Model and the Western Underground Trench Formula.

Upon completion of the review (approximately twelve (12) working days), the permit application will be either issued to the applicant or returned for further modification. Permits are generally issued for six (6) months to one (1) year.

Special conditions or stipulations are added to the permit, so it is important that the applicant carefully review the permit for compliance. In addition, if the company obtaining the permit represents the company that has a License, Franchise or ROW Use Agreement with the City that is authorized by Chapter 46 of the Chandler City Code, then there may be other conditions attached to the permit and the company is responsible to adhere to these conditions.

If additions or corrections are required to the plans or permit application, the applicant will be notified and asked to make corrections and resubmit.

III. PERMIT APPLICATION AND FEES

To obtain a permit, two (2) documents and three (3) plan sets shall be submitted before a permit will be issued. The documents required for a permit are the "**Civil Improvements/Encroachment Permit & Street Cut Application**" form (UDM-012), and the "**Certificate of Quantities for Encroachment Permits**" form (UDM-008). The forms are supplied by the City of Chandler and are available online under the appendices of the Unified Development Manual (UDM) as (Exhibit A) of this manual.

Annual Permits (which are sometimes referred to as Annual Blanket Permit or Annual Maintenance Permits) are issued for emergency work and for reoccurring minor facility maintenance work in public rights-of-way and public utility easements only. These permits authorize a company to perform routine minor work where no excavation is involved. Such work includes only: splicing in existing vaults or pedestals, module swaps, remove/replace faceplates, conduit proofing, remove/replace a single node, and to remove/replace single line extenders (amplifiers). New placement of aerial facilities is **NOT ALLOWED** as part of these permits including: aerial span replacement of faulty plant and fiber/coax cable including over lashing to existing plant, or installation of new stands. Emergency work restoration shall be permitted under a separate "**Civil Improvements/Encroachment Permit & Street Cut Application**" form (UDM-012), not under an Annual Permit. Contact the City's utility coordinator for verbal instructions on emergency work restoration at 480-782-3310.

Permittees must demonstrate proof of insurance (Exhibit F) with agreed to limits of liability and naming the City as additionally insured before issuance of any permits (Specifics for these may be specified in the License, Franchise or ROW Use Agreement with the City). The fee and insurance requirement may be satisfied by agreement, but proof of such should be on file with the City.

Permit fees and other construction costs are collected upon issuance of each individual permit in accordance with the Fee Schedule outlined (Exhibit E) – except as specified by a License, Franchise or ROW User Agreement.

Seal coat charges are also collected upon permit issuance in accordance with MAG specification 336.2.4.

Permission to excavate in new streets will not be granted for two (2) years after completion of street construction, rehabilitation, or renovation. Exceptions will be granted for emergencies, which endangers life or property, interruption of essential utility service, work mandated by government, or services for buildings where no feasible means of providing service exists. A pavement restoration fee for early deterioration will be assessed for cutting new or resurfaced pavements less than six (6) years old. Refer to City of Chandler Specification number 3 for details. For more clarification refer to (Exhibit K) and detailed Chandler City Code, Chapter 46-2.7 (D).

IV. CONSTRUCTION PLAN REQUIREMENTS

A. Plan View Requirements – Refer to Checklist, (Exhibit D) – Complete construction plan drawings shall be provided showing:

1. Stationing and offsets.
2. A scale or dimension that adequate to accurately depict relationships among the physical features within the construction area and to identify potential conflicts.
3. Existing and proposed rights-of-way and adjacent easements clearly labeled and dimensioned. Right-of-Way lines shall be labeled "R/W" or "ROW." Show all proposed easements.
4. Include property addresses and lot lines.
5. Street names.
6. Location and size of all existing and proposed facilities and street improvements to which the proposed construction will either cross or run parallel within right-of-way corridor.
7. Linear trench feet in row and private property on plans.
8. Joint trench must identify all companies sharing trench.
9. Indicate lip-of-gutter, edge of pavement, sanitary sewer lines, waterlines, irrigation facilities, other utilities, landscaping, structures, street lights and traffic signals shall be shown, drawn to scale. Simply using a symbol to indicate these facilities is not sufficient. A legend should be included to distinguish each type of improvement.
10. Storm drains, sanitary sewer lines, and water lines over 12" in diameter drawn to scale. Simply using a symbol to indicate these facilities is not sufficient. NOTE: All conduit systems over 12" diameter or larger shall be shown to scale if proposed construction is within 2 feet of existing conduit system.
11. Verify compliance with MAG Section 336.3 Telecommunications Installation (Copper or Fiber Optic).
12. Proposed utility crossings at or near as practicable to a 90 degree angle with the road monument line.
13. Show all bore/receiving pits and potholes street cuts. The City waives the sewer main potholing requirement to help preserve the integrity if the streets. The contractor shall check elevations at the up and down stream manholes.
14. Locations and limits of proposed construction, e.g. City of Chandler boundary between other right-of-way owners.
15. Dimensioned ties to monument lines in streets and to property lines in alleys and easements.
16. Topography taken by field or aerial surveys or from up-to-date City record drawings showing area of proposed construction.
17. Complete title block.
18. City of Chandler Supplement to MAG details as needed. Refer to City of Chandler Unified Development Manual for all City specifications and detail at http://udm.chandleraz.gov/index.php.
19. North arrow on each plan set.
20. A vicinity map indicating major cross streets.
21. A note stating, "Notify Arizona Blue Stake two (2) working days before construction."
22. Include Chandler General Notes, (Exhibit B).
23. A legend showing all symbology used on plans.
24. All revisions to approved plans must be made distinctive on the revised plans. "Clouded" representation of revisions to approved plans is the suggested method.

B. Profile Requirements – Complete profile drawings showing the following minimum requirements shall be provided for all projects that require utilities to be bored/or trenched. An accurate profile must be approved before starting the bore. These requirements apply to not only longitudinal and lateral street bores, but also utility bores outside paved areas crossing existing utilities.

1. Profile required for each proposed trench and bore. Show bore and receiving pit locations.
2. For clarity, a vertical scale that adequately depicts installation of existing facilities is required. Please specify scale (1”=2’, 1”=3’, 1”=4’, 1”=5’). Use different vertical and horizontal scales on profile details.
3. Existing and proposed grades at intervals of 100’ or less in the same alignment as the proposed construction shall be a continuous line on the plans throughout the project.
4. Show all VERIFIED existing and proposed facilities that the proposed construction would cross. Storm drains, sanitary sewers lines, waterlines, conduit systems, underground utilities shall be drawn to scale. Existing utilities must be potholed in the field and their locations shown accurately on the plans before a permit is issued. To pothole during construction, refer to “Alternative Bore” policy, (Exhibit H).
5. Elevation shall be City of Chandler datum and indicated on the plans, if needed.
6. Existing facilities shall be drawn showing approximate outside dimensions.

C. Underground and Overhead Requirements

1. Temporary overhead services for construction may be permitted for a specified period. No final occupancy will be given until all temporary services are removed. Minimum clearance shall be 18’.
2. All new facilities are required to be installed underground unless specified approval is obtained.
3. Please note that the City of Chandler prefers utility installations be installed in a Public Utility Easement (PUE) out of the roadway where available and feasible. If the PUE is unavailable, then the City rights-of-way out of the roadway should be the second option. The final option should be to install under the roadway due to traffic congestion concerns.
4. Verify joint trench opportunities with utilities for installations greater than six hundred (600) feet and for arterial crossings. The most common joint trench designs involve some combination of dry utilities, i.e. electric, communication (telephone, cable, cable TV, fiber optic, data lines) and gas, with the exception of high pressure (greater than 60 psig) gas lines and lines that are six (6) inches or greater in diameter. If the associated utilities decline joint trench opportunities, submit written documentation to Utility Coordinator via email, fax, or submit with plan set attached to the Certificate of Quantity sheet (Exhibit A).
5. Show sleeve on profile. **No direct bury lines permitted**. Unless otherwise noted, all conduit shall be 2” minimum PVC Schedule 40 or better. Conduits should be sized and placed to allow replacement of or addition of capacity to existing facilities without disturbing the surface.
6. Comply with the City of Chandler Standard Detail and Specifications. Refer to Specification number 3, Specification number 8, C-103, C-104, C-110, and C-111.

D. Utility Clearance Requirements

1. Any and all more stringent separation requirements required by Federal, State, or Local codes or ordinances take precedence.
2. A six-foot minimum horizontal separation from any underground dry utility shall be provided for water and sewer mains. The minimum horizontal separation is measured from the outside of water/sewer main to the outside of the utility.
3. A three-foot minimum horizontal separation from any underground dry utility shall be provided for water and sewer services. The minimum horizontal separation is measured from outside of water/sewer main is the outside of the utility.
4. A two-foot minimum vertical separation from any dry utility crossing shall be provided for water mains, water services, sewer mains, and sewer services. The minimum vertical separation is measured from outside of water/sewer main/service to the outside of the underground utility.
5. For additional information regarding standard utility locations refer to the City of Chandler Standard Details and Specifications, Street Series, C-200 – C-254. See Utility Clearance Requirements below. Refer to section D.
6. Depth requirements shall be in accordance with (Exhibit C) or at the discretion of the City Engineer.

E. Above Ground Utility Structures – All permit applications, excluding inside the boundaries of a new subdivision that place an above ground structure greater than 24" must be accompanied by the following.

1. All above ground structures, over 36" in height, proposed locations will adhere to applicable City of Chandler planning and zoning ordinance. Zoning ordinance can be found at http://udm.chandleraz.gov/index.php.
2. Identify potential site for replacement within neighborhood. The site will be selected on the basis of aesthetics and technical/engineering restrictions.
3. Structure must be placed on the same side as refuse containers or utility poles. Do not block trash truck access and alley access.
4. Verify sight-triangle compliance.
5. Three (3) photographs of the proposed structure, one (1) at 90 degrees, the other two at 45 degrees on either side of the proposed location. Identify the location of the proposed structure, mark the location with white tape, use an orange traffic cone, etc.
6. Dimension of structure.
7. No structure to exceed 36" in height in front yard of residential homes.
8. Submit specification if available.

F. Manhole/Vault Requirements – Manholes, vaults, and handholes must be approved in advance of placement.

1. Include detail of manhole/vault.
2. Submit specification.
3. Conform to City of Chandler detail C-103.

V. CONSTRUCTION REQUIREMENTS

A. Notification Forms and Construction Schedules

1. Projects with durations less than three (3) days may only fax a notification form. The construction management office requires 24 hours written notice before start of work (Exhibit G).
2. Projects with a duration of three (3) days or longer must;

    a. Submit written notification and a construction schedule before commencement of work on projects, excluding bore operations crossing residential, arterial, and collector streets, which requires a mandatory inspection.
    b. Preconstruction meetings are required for projects that have duration longer than three days. The construction management office requires 24 hour written notice before start of work (Exhibit G) and to request inspection. Written notification and schedule should be FAX to 480-782-3305.

B. All Installations Shall:

1. Be governed by the City Traffic Barricade Manual and/or added specific traffic regulation, which shall be attached to the approved permit whenever applicable.
2. Conform to the latest applicable MAG Uniform Standard Detail and Specifications and the current City of Chandler Supplements thereto.
3. All alley work, no matter the size of the work/staging area, shall have a warning sign acknowledging construction ahead at each alley entrance.
4. Jack boring prohibited on arterial and collector streets.
5. When utility conflicts are found during the construction phase, all changes and variances must be preceded by an approval plan revision.
6. Spoil piles and contaminated millings will be removed. Back-dragging dirt is prohibited.
7. AC millings shall be replaced and compacted over excavation.

C. Traffic Control Plans

Work in the street will require an approved construction plan and site-specific traffic control plan (TCP) before beginning construction.

1. Traffic Control Plans must be submitted no later than 24 hours prior to the requested start time.
2. Traffic Control Plans submitted on Fridays, weekends, or holidays, will have the 24 hour time period begin on the next business day.
3. Construction signs – Refer to (Exhibit H) for City Code Section 46-2.7 outlining the City ordinance pertaining to construction signs.
4. Any work outside of the time frame requested is not permitted, and is subject to sanctions described in the City Barricade Manual.
5. The contractor is responsible to maintain the work zone and jobsite in a safe manner.
6. The contractor shall insure that all traffic control devices no longer needed are removed from the roadway prior to the Job Foreman leaving the job site for the day.
7. Refer to City of Chandler Barricading Manual for barricading.

D. Vacuum excavation in the right of way shall be accomplished as follows:

1. Sanitary sewer location and depth shall be verified by checking BOTH the up and downstream manholes.
2. Restoration – A permit is required for all utility location work.

   Temporary Pothole Plates (2x2) – Pothole plates are allowed only during the bore process with a crewmember on-site. Pothole plates must be removed daily and either restored temporarily or permanently. Refer below for options:

   a. Temporary – Pea gravel for full depth to be re-excavated. Cold mix.
   b. Permanent – ½ sack slurry. Refer to MAG Detail 212. For restoration refer to City of Chandler detail C-110 and C-111.

3. An approved traffic plan must be with the crew.
4. Unauthorized nighttime digging will not be allowed.
5. At least one hole at each location must be marked with the initials of the excavating company and pothole date. A spray stencil is acceptable.

E. Horizontal Directional Drilling

1. Refer to directional drilling and hole-hog procedures, (Exhibit I).
2. Bore Profiles are required for all arterial and collector street crossings. Refer to the "Arterial and Collector Street Utility Crossings Using Boring Method's" policy, (Exhibit K).
3. Before street bore or trench that crosses a roadway, the contractor must schedule a field meeting with the project inspector to verify:

   a. Each agency has a copy of the approved plans and permit.
   b. Verify utility survey was conducted. The utility survey is conducted to accurately locate all existing (active or abandoned) utilities within the area of interest that could conflict with the planned installation. Verification of survey will be submittal of an "actual" bore profile which indicates manhole inverts and clearances.
   c. Verification of obvious existing conditions before construction. Existing site conditions along and adjacent to the alignment should be carefully documented to support against claims.
   d. City inspector identifies restoration limits.
4. Tracing or locating wire shall be installed.

F. Abandonment of Facilities – All facilities that are being abandoned. No facility, which use is abandoned, may remain in place. Refer to (Exhibit L) for Abandonment Policy.

G. Utility Inspection and Testing – The utility company is to inspect their work with the City providing periodic oversight. The city inspector will be responsible for inspecting the restoration of city facilities and MAG requirements/City Supplement to the MAG requirements. Testing will be required according to MAG specification and City of Chandler Supplement to the MAG. Tickets and test results shall be faxed to the City's utility coordinator at 480-782-3355 or given to the City Inspector.

H. Overtime Request – Overtime/after-hour work will need to be scheduled and approved by the utility coordinator 24-48 hours before overtime work. A letter authorizing payment of overtime work on company letterhead from an authorized agent in conjunction with the City

of Chandler "Request for Inspection Outside Normal Business Hours" form (Exhibit N) shall be submitted to inspector before utility coordinator can approve overtime work. The utility company shall be notified and approve overtime work.

VI. RECORD DRAWINGS (INSTALLATION RECORDS)

Record drawings of the complete construction shall be maintained by permittee in accordance with State Statutes and provided by them, if requested by the City Engineer.

"Record Drawings" must be maintained by the owner of the facility in accordance with State Statutes and made available to the City upon request.

This manual summarizes selected City Code and City of Chandler Design Manual provisions to assist private utilities. If any discrepancies exist between this manual and the City Code or the City of Chandler Technical Design Manual (TDM), the respective Code provision or City of Chandler TDM shall prevail over this manual.

For clarification or more information, contact Engineering Division's utility coordinator at 480-732-3310.

VII. EXHIBITS

A. Civil Improvement/Encroachment Permit Application and Street Cut Permit
B. General Notes
C. Minimum Coverage Requirements
D. Plan Review Checklist
E. Permit & Pavement Fee Schedule
F. Proof of Insurance
G. Notification Form
H. Construction Sign Ordinance
I. Directional Drilling and Hole-Hog Procedures
J. Pavement Cut Requirements
K. Boring Methods Policy and Detail
L. Abandonment policy, TDP-275
M. Sight Distance Compliances
N. Request for Inspection Outside Normal Business Hours

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EXHIBIT A
Civil Improvements/Encroachment Permit Application

Date: _____

Project Name _____

Unit/Block/Parcel _____ **Phase** _____

For City Use

Log No. _____

Encroachment Class _____

Project Location _____
(Nearest intersection)

Attach a photograph with traffic cone(s) showing exact location of proposed construction where applicable

Check items for which you are requesting a permit:

- ☐ Paving (streets)
- ☐ Paving on-site (parking lots)
- ☐ Grading
- ☐ Grading at owner's risk
- ☐ Concrete (driveways, sidewalks, etc.)
- ☐ Fire line
- ☐ Trenching
- ☐ Water (mains, service, taps)
- ☐ Sewer (mains, service, taps)
- ☐ Irrigation
- ☐ Stormwater or drainage
- ☐ Street lights (in right-of-way)
- ☐ Reclaimed water mains
- ☐ Landscaping ☐ Install ☐ Maintenance
- ☐ Gas or electric trenching
- ☐ Coaxial cable
- ☐ Fiber
- ☐ Traffic signals
- ☐ Other_____

Scope of Work (*Attach plans, engineered designs, details, maps, sketches,*

Proposed Work Schedule *(estimated date and time)*

If lab testing is required, you will use? ☐ **City** ☐ **Private**

Pavement Cuts/Removal: ☐ **Yes** ☐ **No**

If yes, please complete the Street Cut Application on page 3

Applicant Name (applicant shall be developer/owner - **not contractor**)

Address	**City/State/Zip**	**Phone No.**	**Fax No.**

Contractor *(List all contractors employed to perform work pursuant to permit; additional space provided on page 4, if needed)*

Address		
City/State/Zip	**Phone No.**	**City Tax No. (Required)**
Contact Person *(contact for permit pickup)*	**Phone No.**	**Emergency 24-hour Phone No.**

■ **Phone 480-782-3320 for inspection 24 hours in advance.**

For City Use

Fax written notice 24 hours before start of work to Construction Management at Fax # 480-782-3316. ■ **Make written arrangements for road obstruction or closures 24 hours in advance with Traffic Engineering at 480-782-3454.** ■ **For road closures, a traffic control plan must be approved by Traffic Engineering (Phone #480-782-3454) at least one week prior to commencing work.** ■ **For traffic restriction (less than a full road closure), a traffic control plan must be submitted for approval to Traffic Engineering (Phone #480-782-3454) at least 24 hours prior to commencing work.**	☐ **Insurance Certificate** ☐ **Performance Bond** ☐ **Indemnity Agreement**	**Received by** _____ ☐ **Approved** ☐ **Denied** **By:** **Date:**
	Conditions, Restrictions & Comments: _____ _____ _____ _____	

FOR AND IN CONSIDERATION of the granting of a permit for the purpose set forth herein, Applicant hereby agrees, covenants, and binds said applicant, employees, agents and contractors to the terms and conditions set forth below and those included on or attached to the permit when it is issued:

1. All work done shall be at the sole cost and expense of the Permittee and shall be done at such time and in such a manner as to be least inconvenient to the traveling public, and as directed by the City, work must be finished in the time specified on permit. Permittee shall allow all inspections deemed necessary by City and herein agrees to pay in advance inspection and testing fees as established by City.
2. When the proposed work is completed, the Permittee shall repair or replace the sidewalk, roadbed or other surface and landscaping and replace the surfacing material thereon, and will leave the highway, right of way, easement or other public property (hereinafter referred to as highway) in as good a condition as it is now, so far as the area is affected by the Permittee.
3. If the subject of the permit fails to pass final inspection, the Permittee will remove or replace the same within such time as specified by written notice from the City; or if at any time hereafter, within the warranty period any material used by the Permittee in replacing or reconstructing any part of said highway proves defective, the Permittee will replace the same with the kind and quality of material which the City shall specify.
4. If the title and possession of any property placed in, under or upon the highway by the Permittee remains in said Permittee, the Permittee shall and will promptly perform all necessary repair work upon written notice from the City, and will not permit or allow any condition to exist which would be a hazard or source of danger to the traveling public or other users of the highway.
5. If at any time hereafter, the highway or any portion thereof occupied and used by the Permittee may be needed or required by the City, any permit granted in pursuance of this application may be revoked by the City and all right there under terminated, and upon sufficient notice, the Permittee shall and will remove all property belonging to Permittee.
6. In the event that the work to be done under the authority of this permit necessitates the creation of any hazard or source of danger to any person or vehicle using said highway, said Permittee shall and will provide and maintain at all times during the existence of said hazard sufficient barriers, hanger signals, lanterns, detours and shall and will take such other measures of precaution as the City shall direct.
7. In the event any property belonging to Permittee or the area occupied by such property being used by the Permittee within any portion of the highway interferes with or is necessary to facilitate any public purpose or any City project, said Permittee shall at his/her own expense, relocate, remove, lower, or raise such property within a reasonable time, when requested to do so by the City in writing.
8. All conditions of this permit shall be in conformity with current City requirements, provided, however, if Permittee has a lease or license with the City the more strict provision shall apply in the event of a conflict. Permittee certifies that s/he has on file with the City of Chandler a performance bond and certificate of insurance as required by City. It is the sole responsibility of the Permittee to maintain coverage in force for the term of the permit and to name the City as an additional insured. Said coverage shall be primary and failure to conform to the above requirements shall not waive any responsibility of the Permittee. Fifteen day written notice of change or cancellation of the policy shall be served on the City Construction Management Division.
9. In consideration of City granting this encroachment permit, to the full extent permitted by law, throughout the term of this permit, until all construction authorized by this permit is completed, and all equipment or facilities built or installed pursuant to this permit are removed, Permittee, and all other persons using, acting, working or claiming through this permit shall jointly and severally pay, indemnify, defend and hold harmless City, its officers, agents and employees from and against any and all claims, suits, damages, loss, expenses, penalties, fines or other matters (together with all attorney fees, court costs, and the cost of appellate proceedings), arising out of or in connection with the construction, installation, existence, maintenance, use or location of the equipment or facilities built, installed or maintained pursuant

to this encroachment permit or any use of the city's right of way, highway or public easement area or City's property related to this encroachment permit or any actions, acts, errors, mistakes or omissions relating to work or services in the performance of or related to this encroachment permit, including any injury or damages or cause claimed or caused by any employees, contractors, subcontractors, tenants, subtenants, agents or other persons upon or using the service area or surrounding areas related to this permit, including without limitation, claims, liability, harm or damages caused in part by City or anyone for whose mistakes, errors, omissions or negligence Permittee or City may be liable. Permittee agrees that it shall have no recourse whatsoever against the City, its officers, agents, boards and commissions, agents or employees for any loss, costs, expenses, or damages arising out of any provision or requirement of the City because of the enforcement of any provision or requirement of the City because of the enforcement of the permit requirements or because of defects in any of the relevant Chapters of the City Code, or this permit as a result of any damage that may result from the City's exercise of its authority under this permit or applicable provisions of law. [See Chapters 46, 47 and 48 of the Chandler City Code.]

Applicant Name (please print)	**Date**	**Applicant Signature** *By signing here you certify that you have authority to sign on behalf of the applicant*.
Company		

City of Chandler Public Works
Development Street Cut Application

Project location/address	
Project name	
Developer	**Phone No.**
Engineer	**Phone No.**
Address/City/Zip	
Contact person	**Phone No.**

Requesting street cut to install:

_____ **Water** _____ **Gas** _____ **Coax** _____ **Other**

_____ **Sewer** _____ **Electric** _____ **Fiber**

Size of cut: Length:_____ Width:_____ Total Sq. Yds.:_____

Scope of Work
Justification For Street Cut:

Attach 3 copies (24" x 36") of civil plan sheet showing location and type of work to be performed. Permit will not be processed without required civil plan sheets individually folded to 8 ½ X 11 inches.

_____ _____

Applicant Signature **Date**

FOR CITY USE

Pavement Condition:	**Classification:**
_____ **Excellent**	_____ **Arterial**
_____ **Moderate**	_____ **Collector**
_____ **Poor**	_____ **Residential**
Age_____	

Pavement Damage Fee:_____ Inspection Fee:_____

City Engineer:_____ Date:_____

Approved:_____ Approved With Conditions:_____ Denied:_____

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Additional Contractor Information

All contractors employed to perform work pursuant to permit must be listed.

Contractor		
Address		
City/State/Zip	**Phone No.**	**City Tax No. (Required)**
Contractor		
Address		
City/State/Zip	**Phone No.**	**City Tax No. (Required)**
Contractor		
Address		
City/State/Zip	**Phone No.**	**City Tax No. (Required)**
Contractor		
Address		
City/State/Zip	**Phone No.**	**City Tax No. (Required)**
Contractor		
Address		
City/State/Zip	**Phone No.**	**City Tax No. (Required)**

Civil Engineering
Certificate of Quantities
For Encroachment Permit

Log No: _____

Date: _____

Project:	
Location:	

All quantities refer to both public and private unless otherwise noted.
Utility trenching in right-of-way and utility easement is for dry utilities only.

Inspection Fee Quantities

Paving

	Unit	Quantity
1. Public right-of-way/private streets and drives	Square yards	
2. Parking areas	Square yards	
3. Overlay (all)	Square yards	
4. Alley surface	Square yards	
5. Street sign base (City Code Chapter 40-12.7)	Each	
6. Street name sign (City)	Each	
7. Mill and overlay	Square yards	

Concrete

1. Concrete driveway or alley entrance	Each	
2. Concrete valley gutter	Lineal feet	
3. Concrete apron, one per intersection corner where applicable	Each	
4. Curb and gutter	Lineal feet	
5. Sidewalk	Square feet	
6. Catch basin/scupper	Each	
7. Sidewalk ramp	Each	

Water

1. Water pipe (4″ and larger)	Lineal feet	
2. Water services	Lineal feet	
3. Pavement cut	Square yards	
4. Tapping sleeve and valve (non-fire or fire line)	Each	
5. Landscape irrigation system connection with backflow device	Each	
6. Fire line with and without backflow prevention device	Lineal feet	

Reclaimed Water

1. Reclaimed water pipe (4″ and larger)	Lineal feet	
2. Reclaimed water services	Lineal feet	
3. Pavement cut	Square yards	
4. Tapping sleeve and valve	Each	

Sewer

1. Sewer pipe (8″and larger)	Lineal feet	
2. Sewer service	Lineal feet	
3. Manhole	Each	
4. Pavement cut	Square yards	
5. Clean out/drop connection	Each	

Drainage

1. Retention basin, on-site plus offsite (grading)	Acre	
2. Irrigation pipe (SRP, RWCD and private)	Lineal feet	
3. Stormwater pipe (include box culvert)	Lineal feet	
4. Headwall	Each	
5. Pavement cut	Square yards	
6. Drywell	Each	
7. Stormwater retention pipe	Lineal feet	

Utilities

1. Utility trenching, in right-of-way and utility easement	Lineal feet	
2. Streetlight pole (public)	Each	
3. Boring on local street	Lineal feet	
4. Boring on arterial or collector street	Lineal feet	
5. Pavement cut	Square yards	
6. Service drops	Each	

Pavement Damage Fee Quantities

Paving

1. Pavement removal (0 - 1 year old)	Square yards	
2. Pavement removal (1 - 2 years old)	Square yards	
3. Pavement removal (2 - 4 years old)	Square yards	
4. Pavement removal (4 - 6 years old)	Square yards	
5. Pavement removal (over 6 years old)	Square yards	
6. Pavement reconstruction * ___ Yes ___ No	Square yards	

* Option in lieu of paying the pavement damage fee.

I hereby certify that these quantities are accurate.

Seal, date and signature of Registered Civil Engineer:

Printed Name

EXHIBIT B
Civil Engineering Utility Company Notes (Supplemental Conditions of Approval)

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT M.A.G. STANDARD SPECIFICATIONS AND DETAILS AS MODIFIED BY THE CITY OF CHANDLER.

2. THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION AT (480) 782-3320. IF SUBCONTRACTORS ARE EMPLOYED, THEY SHALL BE IDENTIFIED AT THIS TIME. EMERGENCY WORK PERFORMED AFTER NORMAL WORK HOURS SHALL BE REPORTED TO THE POLICE DISPATCHER AT (480) 782-4132.

3. ALL STREET CROSSINGS SHALL BE BORED USING HORIZONTAL DIRECTIONAL DRILLING (H.D.D.) UNLESS APPROVAL TO OPEN CUT HAS BEEN RECEIVED FROM THE CITY ENGINEER AND SUCH APPROVAL HAS BEEN NOTED ON THE PERMIT. ALL PAVEMENT REPLACEMENT SHALL BE IN ACCORDANCE WITH M.A.G. STANDARD DETAIL 200, “T” TOP, WITH FULL DEPTH ABC BACKFILL.

4. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE CHANDLER TRAFFIC BARRICADE MANUAL. TRAFFIC RESTRICTIONS ARE NOT PERMITTED ON ARTERIALS AND MAJOR COLLECTORS PRIOR TO 8:30 A.M. OR AFTER 4 P.M.

5. RESTRICTIONS IN ALLEYS WILL BE COORDINATED IN ADVANCE WITH THE SOLID WASTE SERVICES DIVISION (480) 782-3510.

6. PERMITS ARE REQUIRED FOR ALL WORK IN CITY RIGHTS-OF-WAY. A COPY OF THE PERMIT AND APPROVED PLAN SHALL BE AVAILABLE AT THE JOB SITE. FAILURE TO SECURE PERMITS PRIOR TO STARTING CONSTRUCTION WILL RESULT IN THE ASSESSMENT OF PENALTY FEES.

7. ALL WORK IN THE RIGHT-OF-WAY SHALL BE COMPACTION TESTED AND RESULTS KEPT ON FILE FOR A MINIMUM OF ONE YEAR.

8. ANY DAMAGE TO IRRIGATION SYSTEMS WITHIN THE CITY RIGHT-OF-WAY SHALL BE REPAIRED, WITHIN 48 HOURS OF SAID DAMAGE, TO PREVENT LOSS OF LANDSCAPE MATERIAL.

9. WHEN TRENCHING IN ALLEYS, ALL TRENCH SPOIL SHALL BE REMOVED FROM THE AREA AND ALL TRENCH BACKFILL SHALL BE AGGREGATE BASE IN CONFORMANCE WITH MAG SPEC. 702.2 AND INSTALLED PER SPEC. 601.4.4, BACKFILL TYPE II. A MINIMUM OF 24" DEPTH OF COVER SHALL BE MAINTAINED BY ALL UNDERGROUND FACILITIES INSTALLED IN THE ALLEY AND THE ALLEY SURFACE OVER AND ADJACENT TO THE TRENCH SHALL BE NEAT AND CLEAN OF ALL SPOIL.

   EXCEPTION: IF A TRENCH IS 24" WIDE OR WIDER, NATIVE MATERIAL MAY BE USED AS BACKFILL TO WITHIN 6" OF FINISHED GRADE AND INSTALLED PER MAG SPEC. 601.4.4, BACKFILL TYPE II. THE TOP 6" OF THE TRENCH BACKFILL SHALL BE COMPLETED WITH AGGREGATE BASE. ALL TRENCH SPOIL ADJACENT TO THE TRENCH SHALL BE REMOVED FROM THE AREA AND THE ALLEY LEFT IN A NEAT AND CLEAN CONDITION.

10. WHEN CONTRACTORS OR UTILITY COMPANIES CALL IN FOR BLUESTAKING OR CONSTRUCTION AREAS, “SEMI-PERMANENT”, OR APPROVED ALTERNATE 3-6 MONTH DURATION BLUE-STAKE PAINT SHALL BE SPECIFIED. IN ADDITION, “STAKE CHASERS” WILL BE SPECIFIED FOR MARKING ACROSS LANDSCAPED YARDS/AREAS.

    UTILITY COMPANIES OR CONTRACTORS FOR UTILITY COMPANIES THAT EMPLOY INDISCRIMINATE/EXCESSIVE BLUE-STAKE MARKING ACROSS RESIDENTIAL/BUSINESS DRIVEWAYS OR YARDS WILL BE RESPONSIBLE FOR RESTORING RIGHT-OF-WAY, UTILITY EASEMENT, AND/OR ADJOINING PROPERTY OWNERS AREA TO ITS ORIGINAL UNMARKED CONDITION.

    EXCEPTION: FOR LONG DURATION CONSTRUCTION PROJECTS ON MAJOR ARTERIALS OR MAJOR STREETS, OR CERTAIN SPECIALTY TYPE CONSTRUCTION PROJECTS, THE CONTRACTOR/UTILITY COMPANY MAY ASK THE CITY ENGINEER FOR APPROVAL TO USE LONGER DURATION BLUE-STAKE PAINT. IN ADDITION, IF THE REMOVAL OF “STAKE CHASERS” OCCURS OR IS EXPECTED TO RESULT, THE CONTRACTOR/UTILITY COMPANY MAY ASK THE CITY ENGINEER FOR APPROVAL TO USE BLUE-STAKE PAINT MARKING ACROSS LANDSCAPED AREAS.

MINIMUM COVER REQUIREMENTS FOR PROPOSED UTILITIES

ITEM	DESCRIPTION	MAJOR STREET	COLLECTOR STREET	LOCAL STS. & ALLEYS	UNDEVELOPED (No Curb & Gutter)	UNDEVELOPED (No Ultimate ROW)
POWER						**Please be advised that all proposed utilities designed in locations that are not fully developed will need to be installed lower than the minimum requirements.**
	0-600 Volts	36”*	36”	24”	36”*	
	601-7200 Volts	42”	42”	42”	48”	
	12kV (Local Dist)	42”	42”	42”	48”	
	12kV + (30 Feeder)	48”	48”	48”	54”	
	Street Light Circuit	36”	36”	36”	36”	
GAS						
	Services	36”	36”	36”	36”	
	1” – 6” Diameter	36”	36”	36”	36”	
	> 6” Diameter	36”	36”	36”	36”	
MANHOLES		36”	36”	36”	48”	**Refer to the next page if proposed utilities will be placed within future road widening ROW.**
CONDUITS		36”*	36”	36”	36”	
TELECOMMUNICATIONS (Copper or Fiber Optic)						
	Trunklines	48”	48”	48”	48”	
	Copper Service Drops	36”	36”	24”	30”	
	Other	36”*	36”	36”	36”	
CATV	Coaxial	36”*	36”	24”	36”	

NOTE: THE CITY ENGINEER MAY APPROVE DEVIATIONS FROM THESE STANDARDS UNDER UNUSUAL AND COMPELLING CIRCUMSTANCES.

Minimum Coverage Requirements for Utility Placement within Ultimate Right of Way to Accommodate Future Road Widening and Street Reconstruct

Introduction: The City of Chandler will be expanding roadways to accommodate population growth. Refer to projections below.

POPULATION PROJECTIONS:
Last updated on April 26, 2005

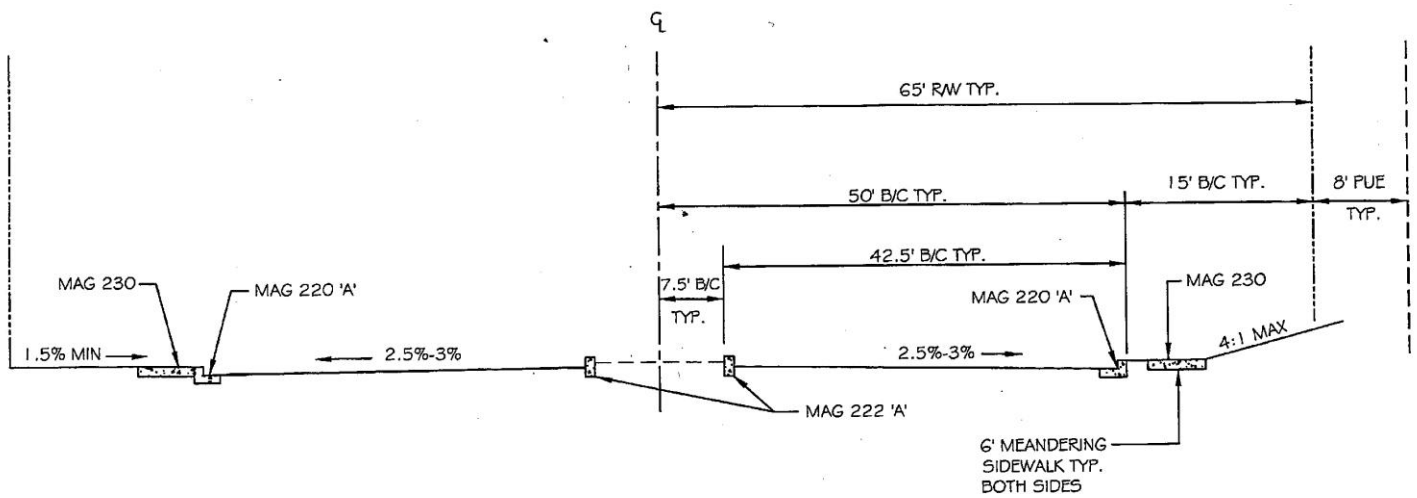
Date	Population	Housing Units
July 1, 2008	263,995	97,962
July 1, 2009	269,659	100,212
July 1, 2010[2]	274,978	102,286

Foot Notes:

1. Population is projected to reach 90% of residential build-out in August 2007
2. Population is projected to reach 95% of residential build-out in January 2010

Roadway expansion projects will disturb the existing cross-section and cross-slope of the street during the construction process. The City has implemented minimum coverage requirements for new street installments to reduce utility conflicts and relocations. Refer to the third page for **COLLECTOR STREET** requirements.

ARTERIAL STREET – DETAIL NO. C-203

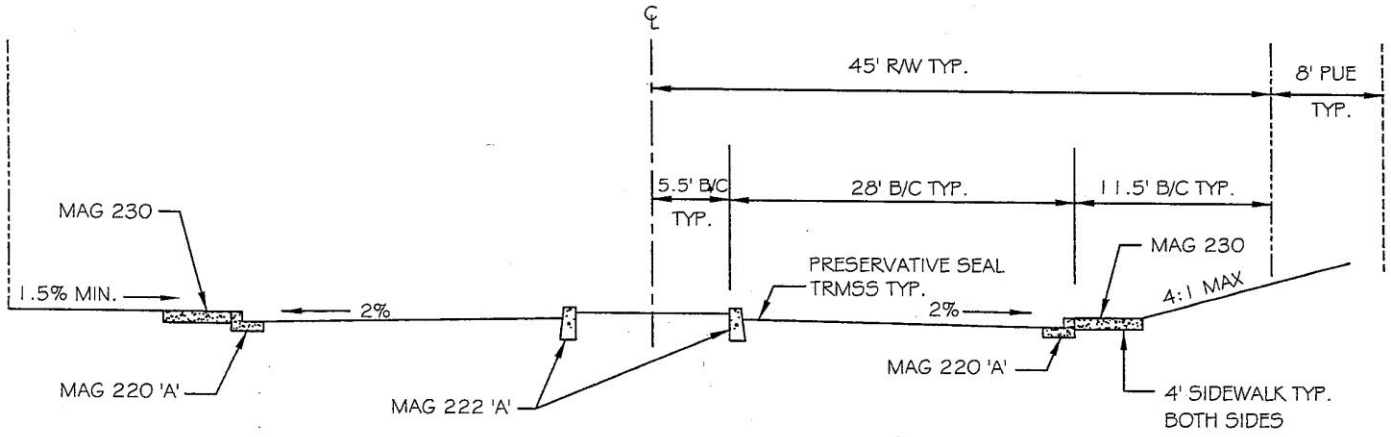


Minimum Coverage Requirements

ITEM	DESCRIPTION	UNDER EXISTING & FUTURE PAVEMENT & MEDIANS	FUTURE BACK OF CURB
POWER			
	0-600 Volts	60”	48”
	601-7200 Volts	66”	54”
	12kV (Local Dist)	66”	54”
	12kV + (30 Feeder)	72”	60”
	Street Light Circuit	60”	48”
GAS			
	Services	60”	48”
	1” – 6” Diameter	60”	48”
	> 6” Diameter	60”	48”
CONDUITS		60”	48”
TELECOMMUNICATIONS (Copper or Fiber Optics)			
	Trunklines	72”	60”
	Copper Service Drops	60”	48”
	Other	60”	48”
CATV	Coaxial	60”	48”

NOTE: THE CITY ENGINEER MAY APPROVE DEVIATIONS FROM THESE STANDARDS UNDER UNUSUAL AND COMPELLING CIRCUMSTANCES.

COLLECTOR STREET – DETAIL NO. C-206



Minimum Coverage Requirements

ITEM	DESCRIPTION	UNDER EXISTING & FUTURE PAVEMENT & MEDIANS	FUTURE BACK OF CURB
POWER			
	0-600 Volts	36”	36”
	601-7200 Volts	42”	42”
	12kV (Local Dist)	42”	42”
	12kV + (30 Feeder)	48”	48”
	Street Light Circuit	36”	36”
GAS			
	Services	36”	36”
	1” – 6” Diameter	36”	36”
	> 6” Diameter	36”	36”
CONDUITS		36”	36”
TELECOMMUNICATIONS (Copper or Fiber Optics)			
	Trunklines	48”	48”
	Copper Service Drops	36”	36”
	Other	36”	36”
CATV	Coaxial	36”	36”

NOTE: THE CITY ENGINEER MAY APPROVE DEVIATIONS FROM THESE STANDARDS UNDER UNUSUAL AND COMPELLING CIRCUMSTANCES.

PLAN REVIEW CHECKLIST
PERMIT WAS REJECTED FOR THE FOLLOWING REASONS:

PLAN REQUIREMENTS

- ❑ Include stationing and offsets.
- ❑ A scale or dimension that depicts relationships among the physical features within the construction area and to identify potential conflicts.
- ❑ Existing and proposed rights-of-way and adjacent easements with dimensions. Right-of-way lines labeled "RW" or "ROW". Clearly differentiate between City of Chandler and others' rights-of-way.
- ❑ Property addresses, lot lines, and street names.
- ❑ Identify and dimension paving improvements. In areas with new development, all existing and proposed paving improvement should be shown. Include potholes.
- ❑ Include on plan all existing and/or proposed facilities that the proposed construction would cross and/or parallel within the limits of the right-of-way.
- ❑ Include on plan location and size of all existing and proposed facilities. Indicate lip-of-gutter, edge of pavement, sanitary sewer lines, waterlines, irrigation facilities, other utilities, landscaping, structures, street lights and traffic signals shall be shown, drawn to scale. Simply using a symbol to indicate these facilities is not sufficient. A legend should be included to distinguish each type of improvement.
- ❑ Remove curbing detail. DO NOT USE TYPICAL. Show ROW, lip-of-gutter, and edge of pavement, sidewalks, ramps, etc. on plan sheet.
  - Unable to determine concrete limits from curb detail.
  - Unable to determine offset of proposed alignment.
- ❑ Show all bore/receiving pits.
- ❑ Aerial and underground utility crossings at a 90-degree angle to the road centerline.
- ❑ Vicinity map indicating major cross streets.
- ❑ North arrow, preferably with north up.
- ❑ A legend showing all symbology used on plan.
- ❑ Blue stake note or symbol.
- ❑ City of Chandler details called out on plan.
- ❑ Plans include City of Chandler and MAG details as needed.
- ❑ Completed title block.
- ❑ Utility company logo and job number.
- ❑ City of Chandler general notes *(Exhibit B)*.
- ❑ Trench detail showing width and depth and number of conduit or pipe. Depth shall be in accordance with the requirements in "*Exhibit B*".
- ❑ Compliance with separation requirements required by Federal, State, or Local codes.

- ❑ Linear trench feet in ROW and private property on plans.

- ❑ Joint trench must identify all companies in trench.

- ❑ All proposed equipment details shown and dimensioned on plan such as pedestals, transformers & pads, switching cabinets, manholes, etc.

PROFILE REQUIEMENTS

- ❑ Bore Profile Required per City Detail C-112
    - Two Options Available:
        1. Provide an "actual" bore profile using current pothole data.
        2. Or providing a blank profile completed in the field and verified by City Inspector.

        ***Refer to Boring Methods Policy**

- ❑ Elevations taken from existing surface grade at intervals of one hundred feet (100') or less in the same alignment as proposed construction.

- ❑ Vertical scale that adequately depicts installation of existing facilities is required. Please specify scale (1"=2', 1"=3', 1"=4', 1"=5'). Use different vertical and horizontal scales on profile details.

- ❑ Compliance with separation requirements required by Federal, State, or Local codes.

- ❑ Continuous line of the plans throughout the project.

- ❑ Finish and/or natural grade profile if it is in the proposed construction.

- ❑ All existing and proposed facilities that the proposed construction would cross.

- ❑ Storm drains, sanitary sewer lines, water lines over twelve inches (12") in diameter shall be shown drawn to scale. All conduit systems over twelve inches (12") in diameter or larger shall be shown to scale if proposed construction is within two feet (2') of existing conduit system.

ABOVE GROUND STRUCTURES

- ❑ Dimension of structure and poles.

- ❑ No structure to exceed thirty-six (36") in height in front yard of residential homes.

- ❑ Three (3) photographs of the proposed structure, one (1) at 90 degrees the other two at 45 degrees on either side of the proposed location. Identify the location of the proposed structure, mark the location with white paint, use an orange cone traffic cone, etc.

- ❑ Structure must be placed on the same side as refuse containers or utility poles. Do not block trash truck access and alley access.

- ❑ Verify sight-triangle compliance

- ❑ Obtain License from City to install bus shelter and/or private electrical service in City right-of-way.

REQUIREMENTS

- ❑ Minimum overhead clearance shall be eighteen inches (18').

- ❑ New placement of Aerial facilities **NOT ALLOWED**. Redesign aerial span replacement of faulty coax and or fiber cable including over lashing to existing plant, or installation of new stand. New facilities shall be underground.

- ❑ Design route within ROW or PUE. If ROW is unavailable, identify conflict on plan.

- Please note that The City of Chandler prefers utility installation in the PUE out of the roadway. If the PUE is unavailable design, the second option is to design out of roadway, in City ROW or median. The final option should be to install under the roadway due to traffic congestion concerns.

- ❑ Aerial overhead in City ROW or PUE must be shown and called out on plans. If riser is placed, identify new or existing aerial plant.

- ❑ Verify joint trench opportunities with utilities for installations greater than six hundred (600) feet and for arterial street crossings.
  - The most common joint trench designs involve some combination of dry utilities, i.e. electric, communication (telephone, cable, cable TV, fiber optic, data lines) and gas, with the exception of high pressure (greater than 60 psig) gas lines and lines that are six (6) inches or greater in diameter. If the associated utilities decline joint trench opportunities, submit written documentation to Utility Coordinator via email, fax, or submit with plan set attached to the Certificate of Quantity sheet (Exhibit A).

- ❑ Convert to first existing pole beyond property limits.
  - Place underground all overhead utility lines, either within a proposed development or redeveloped project within public rights-of-way or easement adjacent to the project. Utility poles and lines are defined herein as the poles, structures, wire, aerial cables and related facilities used in the distribution of electricity or in the transmission of telecommunications, telegraph, data, radio or television communications. This requirement includes both new and existing utility lines on and adjacent to the project, including lines which extend across public streets, alleys and/or easements adjacent to the property being developed or redeveloped. Existing utility lines adjacent to a project shall be under-grounded up to the first existing pole beyond the limits of the property. This requirement includes undergrounding of all existing overhead service lines attached to the lines to be removed along with necessary conduit, supports, restoration, etc., necessary to convert the service line from overhead to underground. The requirement shall apply regardless of the existence of easements for overhead lines. When high-voltage lines (above twelve (12) KV or similar) are present, all lines other than the high-voltage lines shall be placed underground.

- ❑ NEW ROAD - Locate
  - In the event an alternative alignment is not possible, submit letter from supervisor, on company letterhead, agreeing to the pavement cut fees, and stating that an alternative alignment is not possible and reason, and designer and supervisor endorse reason.

- ❑ No Aerial Plant and No Poles. New placement of aerial facilities is **NOT ALLOWED** as part of these permits including: aerial span replacement of faulty plant and fiber/coax cable including over lashing to existing plant, or installation of new stands.

- ❑ Underground service.

2011
CITY OF CHANDLER
FEE SCHEDULE
Effective July 1, 2011
(Revised) 05/26/11

Sec. 8 TRANSPORTATION & DEVELOPMENT – TRANSPORTATION OPERATIONS:

PUBLIC WORKS ENCROACHMENT AND INSPECTION (Chapter 46)

8.1 Encroachment Permit
- (a) Class 1 encroachment permit application base fee [§46-3] $97.00
- (b) Class 2 encroachment permit application base fee [§46-4] $97.00
- (c) Class 3 encroachment permit application base fee [§46-5] *(Res. 3336)* $97.00
- (d) Class 4 encroachment permit application base fee [§46-6] *(Res. 3336)* $97.00
- (e) Class 5 encroachment permit application base fee [§46-7] *(Res. 3336)* $97.00
- (f) Class 6 encroachment permit application base fee [§46-8] *(Res. 3336)* $97.00
- (g) Class 7 encroachment permit application fee [§46-9] *(Res. 3336)* $97.00
- (h) Class 8 encroachment permit application fee [§46-10] *(Res. 3336)* $97.00
- (i) Encroachment Permit ROW use fee *(Res. 4430)* ..... $1.96 per linear foot plus annual adjustment of 3.8% or according to Consumer Price Index (CPI-W)
- (j) Class 9 encroachment permit application fee [§46-11] (Res. 4504) $97.00

8.2 Cable Television License application base fee [§46-8.8E] $10,000.00

8.3 License applications base fee for all Chapter 46 licenses, except cable *(Res.3336)* $3,000.00

8.4 Penalty Assessment for failure to obtain encroachment or street cut permit $1,000.00

8.5 Pavement Damage Restoration Fee (*Res. 3692)*

8.5.1 Within one year of construction of new streets, renovation or reconstruction of a street (as defined by City Code):
- (a) For Each Cut:
  - i. For 5 sq. yds. or less ..... $330.00 per sq. yd. of cut
  - ii. For larger than 5, to 100 sq. yds. ... $1,650.00 plus $18.00 per sq. yd. of cut over 5 sq yds.
  - iii. For larger than 100 sq. yds. ..... $3,360.00 plus $14.00 per sq. yd. of cut over 100 sq. yds.
- (b) For cuts within the first year, the fee is in addition to the requirement for mill and overlay/inlay in accordance with City Code §46-2.7 and Standard Specification No.3.
- (c) Or for cuts within the first year, the applicant may choose to reconstruct the street in accordance with City Code §46-2.7 in lieu of paying the above fee.

8.5.2 From one to two years after construction of new streets, renovation or reconstruction of a street (as defined in the City Code):
- (a) For Each Cut:
  - i. For 5 sq. yds. or less ..... $330.00 per sq. yd. of cut
  - ii. For larger than 5, to 100 sq. yds. ... $1,650.00 plus $18.00 per sq. yd. of cut over 5 sq yds.
  - iii. For larger than 100 sq. yds. ..... $3,360.00 plus $14.00 per sq. yd. of cut over 100 sq.yds.
- (b) For cuts from one to two years after construction of new streets, renovation or reconstruction of a street, the applicant may choose to perform a mill and overlay/inlay, in accordance with City Code §46-2.7 and Standard Specification No.3 in lieu of paying the above fee.

8.5.3 From two to four years after construction of new streets or renovation or reconstruction of a street (as defined by City Code):
- (a) For Each Cut:

i. For 5 sq. yds. or less..... $230.00 per sq. yd. of cut
ii. For larger than 5, to 100 sq. yds. ... $1,150.00 plus $13.00 per sq. yd of cut over 5 sq. yds.
iii. For larger than 100 sq. yds. ..... $2,385.00 plus $10.00 per sq. yd. of cut over 100 sq. yds

8.5.4 From four to six years after construction of new streets or renovation or reconstruction of a street (as defined by City Code):

(a) For Each Cut:

i. For 5 sq. yds. or less..... $130.00 per sq. yd. of cut
ii. For Larger than 5, to 100 sq. yds. ..... $650.00 plus $8.00 per sq. yd. of cut over 5 sq. yds.
iii. For larger than 100 sq. yds. ..... $1,410.00 plus $5.00 per sq. yd. of cut over 100 sq. yds.

8.5.5 Within one year prior to a City street reconstruction project approved in the capital program of the City's Annual Budget .....No Charge

8.5.6 For cuts from two to six years after construction of new streets, renovation or reconstruction of a street, the applicant may choose to perform a mill and overlay/inlay, in accordance with City Code §46-2.7 and Standard Specification No. 3 in lieu of paying the above fee.

8.5.7 The minimum fee shall be based on one square yard. If a pavement cut is so extensive, or the cuts in one area are so numerous that the permittee prefers to perform a renovation (major rehabilitation) of the street in accordance with the City Engineer's requirements, for the full width of any impacted lane and the full length of any cuts plus fifty feet in both directions from the area of the cut on arterial streets and twenty-five in both directions from the area of the cut on collector streets, the permittee may choose to do such renovation in lieu of the Pavement Restoration Fee and such reconstruction shall satisfy the fee requirement. Provided, however, this does not apply to pavement cuts in streets within two years of construction, renovation or reconstruction. During the first two years, those who desire to perform reconstruction in lieu of paying the pavement restoration fee, will be required to reconstruct the street to the satisfaction of the City Engineer. Those companies exempt from the Pavement Restoration Fee shall perform the required repairs and restoration in accordance with City Code §46-2.7 and Standard Specification No. 3 and their contracts with the City unless their written application to pay the established fee in lieu of such restoration is granted by the City Engineer.

8.5.8 For pavement cuts or potholes less than two square feet, no fee will be charged, or for companies with license and franchise agreements that require street reconstruction no reconstruction will be required, provided the pavement cut or pothole meets the spacing requirements of Specification No. 3 and Standard Detail No. C-111.

8.5.9 If a pothole cut is done in advance of construction that will remove that portion of the pavement within a reasonable time as specified by the City Engineer, no fee will be charged.

8.5.10 The definitions set forth in Section 46-2.7 are applicable to the provisions herein.

8.5.11 This Pavement Restoration Fee shall not be charged to nor paid by the City Street Division or the City Traffic Engineering Division.

8.6 Repealed by Ordinance No. 4104 adopted 10/30/2008, effective 11/29/2008

8.7 Application for disposition of roadway or easement [§47-16.2]

(a) ROW vacation application fee (developed residential) $400.00
(b) ROW vacation application fee (non-residential)..... $1,000.00
(c) ROW appraisal fee (Deposit of $200.00 required).....Actual Cost
(d) Extinguishment of easements application fee (developed residential) $200.00

(e) Extinguishment of easements application fee (non-residential) $500.00
(f) Extinguishment of easements appraisal fee (Deposit of $200.00 required) .....Actual Cost

8.8 Fire Hydrant Meter Deposit [§52-5]..... $755.00

8.9 Reimbursement Agreement Transaction fee [Ch. 51] $100.00

8.10 Median & Street Light Construction Buy-In Assessment [§47-12 & 47-15] (*Res. 3482)*

½ Front Foot	Per foot
(a) Median construction	11.00 LF
(b) Streetlighting in median	11.00 LF
(c) Landscaping in median	1.80 SF
(d) Streetlighting behind curb	9.00 LF

8.11 Water Service Buy-In Assessment [§52-26] *(Res. 3482)*

	6”	8”	10”	12”	16”
(a) Full front foot	24.00	33.00	38.00	43.00	66.00
(b) ½ front foot	12.00	16.50	19.00	21.50	33.00

8.12 Reclaimed Water Buy-In Assessment [§53-12] *(Res. 3482)*

	12”
Full front foot	37.00
½ front foot	18.50

8.13 Sewer Service Buy-In Assessment [CH. §51-20] *(Res. 3482)*

Sewer				
Full Front Foot	8”	10”	12”	15”
(a) 0 – 10’ depth	25.00	31.00	35.00	43.00
(b) 10 – 18’ depth	43.00	48.00	52.00	61.00
(c) *Over 18’	49.00	53.00	54.00	63.00

1/2 Front Foot	8”	10”	12”	15”
(d) 0 – 10’ depth	12.50	15.50	17.50	21.50
(e) 10 – 18’	21.50	24.00	26.00	30.50
(f) *Over 18’	24.50	26.50	27.00	31.50

*(add $2.50 per full front foot for each additional foot in depth)

8.14 Inspection and Testing Fees [Ch §47-7.2] *(Res. 3336 , Res. 3482 & Res. 4505)*

Pavement	Unit	Fee/unit without testing
(a) Paving Public Right of Way/Private Streets & Drives	SY	0.36
(b) Parking Areas	SY	0.10
(c) Overlay (all)	SY	0.12
(d) Alley Surface	SY	0.36
(e) Street Sign Bases [Ch. 48-12.7]	EA	10.00
(f) Street Sign (City)	EA	80.00
(g) Mill & Overlay	SY	0.25

Concrete	Unit	Fee/unit without testing
(h) Driveway or alley entrance	EA	41.17
(i) Valley Gutter	LF	0.36
(j) Apron	EA	10.98
(k) Curb & gutter	LF	0.19
(l) Sidewalk	SF	0.07
(m) Catch Basin/Scupper	EA	41.17
(n) Sidewalk Ramp	EA	82.34

Water	Unit	Fee/unit without testing
(o) Water Pipe (4” or larger)	LF	0.82
(p) Water Services	LF	0.55
(q) Pavement Cut	SY	23.87
(r) Tapping Sleeve & Valve (non-fire or fire line)	EA	82.34
(s) Landscape Irrigation System with Backflow Prevention Devices	EA	82.34
(t) Fire Line with and without backflow prevention devices	LF	0.82

Reclaimed Water	Unit	Fee/unit without testing
(u)Reclaimed Water (4” or larger)	LF	0.82
(v) Reclaimed Water Service	LF	0.48
(w) Pavement Cut	SY	23.87
(x) Tapping Sleeve and Valve	EA	82.34

Sewer	Unit	Fee/unit without testing
(y) Sewer pipe (8” or larger)	LF	1.10
(z) Sewer service	LF	0.82
(aa) Manhole	EA	82.34
(bb) Pavement cut	SY	23.87
(cc) Clean out/drop connection	EA	42.54

Drainage	Unit	Fee/unit without testing
(dd) Retention Basin (Grading)	Acre	68.62
(ee) Irrigation Pipe (SRP, RWCD, Private)	LF	1.07
(ff) Stormwater Pipe (including Box Culverts)	LF	1.16
(gg) Headwalls	EA	42.54
(hh) Pavement Cut	SY	23.87
(ii) Drywells	EA	76.85
(jj) Stormwater Retention Pipe	LF	1.16

Utilities [Ch §47-7.2]	Unit	Fee/unit without testing
(kk) Utility trenching in ROW/Easement	LF	0.22
(ll) Street Light Pole (public)	EA	41.17
(mm) Repealed by Ord. 4104 adopted 10/30/08		
(nn) Repealed by Ord. 4104 adopted 10/30/08		
(oo) Borings on a local street	LF	0.14
(pp) Borings on an Arterial or collector street	LF	0.21
(qq) Pavement cut	SY	23.87
(rr) Service Drops	EA	20.59
(ss) Offsite After hours inspection fee	HR	97.00

Permits [Ch §47-7.2]	Unit	Fee/unit without testing
(tt) Permit application fee	EA	97.00
(uu) As Built Approval fee	SHEET	13.72
(vv) Blanket Permits	EA	450.00
(ww) New Construction Pavement Preservative Seal Coat Permit	YD	.90

EXHIBIT F

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A :	
INSURED	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY						EACH OCCURRENCE	$
	COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
	CLAIMS-MADE / OCCUR						MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
							GENERAL AGGREGATE	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$
	POLICY / PRO-JECT / LOC							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS / NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB / OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB / CLAIMS-MADE						AGGREGATE	$
	DED / RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						WC STATU-TORY LIMITS / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					E.L. EACH ACCIDENT	$
							E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER	CANCELLATION
	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

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EXHIBIT G

CITY OF CHANDLER PERMIT NOTIFICATION
(Notification of Construction Schedule for Inspector)

TO: PW Inspector	**FROM:**
FAX: (480) 782-3350	**PHONE:**
DATE:	**FAX:**

CONTRACTING COMPANY NAME:	**UTILITY COMPANY:**

CONTRACTING COMPANY NAME:	**FOREMAN NAME/NUMBER**	**EMERGENCY PHONE#**

UTILITY COMPANY REP NAME:	**TITLE:**	**PHONE;**

First time working in the City of Chandler? YES or NO

PERMIT NO. <u>AND</u> UTILITY COMPANY JOB NO.

LOCATION OF WORK:

DESCRIPTION OF WORK: (trench, bore, pothole, splice, etc.)

IS THERE AN APPROVED STREET CUT PERMIT: YES or NO

COORDINATE WORK WITH REFUSE SECTION BY FAXING 480-782-3316

ALLEYS WILL REMAIN OPEN AT ALL TIMES. ALL ALLEY WORK, NO MATTER THE SIZE OF PROJECT, SHALL HAVE A WARNING SIGN ACKNOWLEDGING CONSTRUCTION AHEAD AT EACH ALLEY ENTRANCE. THE WARNING SIGN SHALL NOTIFY REFUSE DRIVERS OF CONSTRUCTION.

(DO NOT CUT STREET WITHOUT A VALID STREET CUT PERMIT – REVIEW PERMIT TO VERIFY IF A STREET CUT PERMIT WAS APPROVED)

DATE OF SCHEDULED START:_____
DATE OF SCHEDULED COMPLETION:_____

BARRICADE COMPANY CONTACT/NOS. _____ **BLUESTAKE NO:** _____

NOTE: CONTRACTORS SHALL NOTIFY CITY INSPECTOR A MINIMUM OF 24 HOURS BEFORE WORK. APPROVED PLAN, PERMIT, NOTIFICATION FORM, AND TCP MUST BE ONSITE AT ALL TIMES. FAX ONE INSPECTION REQUEST FOR A SINGLE PERMIT.

City of Chandler Work Notification -

Harden Drops and Buried Drop Services Only (Ped to Home**)**

NOT TO BE USED FOR PAVEMENT CUTS, POTHOLE, OR EMERGENCY WORK

FAX FORM TO 480-782-3350

Utility Company:_____

Contractor:_____

Contact Name and Number:_____

Emergency Name and Number:_____

Fax Number:_____

Annual Permit AND Utility Job Number:	Work Location:	Type of Work: Harden Drop or Buried Drop Service
Start/End Date:	Start/End Time:	Type of Restoration:

Annual Permit AND Utility Job Number:	Work Location:	Type of Work: Harden Drop or Buried Drop Service
Start/End Date:	Start/End Time:	Type of Restoration:

Annual Permit AND Utility Job Number:	Work Location:	Type of Work: Harden Drop or Buried Drop Service
Start/End Date:	Start/End Time:	Type of Restoration:

Annual Permit AND Utility Job Number:	Work Location:	Type of Work: Harden Drop or Buried Drop Service
Start/End Date:	Start/End Time:	Type of Restoration:

ALLEYS WILL REMAIN OPEN AT ALL TIMES. ALL ALLEY WORK, NO MATTER THE SIZE OF PROJECT, SHALL HAVE A WARNING SIGN ACKNOWLEDGING CONSTRUCTION AHEAD AT EACH ALLEY ENTRANCE. THE WARNING SIGN SHALL NOTIFY REFUSE DRIVERS OF CONSTRUCTION.

City Code Section 46-2.7 – Construction Sign Ordinance

E. Construction signs required for work. Whenever any work is being done in the City streets, easements or right of way for which approval by the City of a traffic control plan is required, the person or persons performing such work shall maintain at the site of such work at all times during which any such work is being done, signage meeting the requirements set forth below and providing information to the public as follows:

1. If the work will take one (1) week or longer to perform such signage shall:

   (a) Be installed so that the bottom of the sign is at least seven (7) feet above grade, or as otherwise approved by the City Transportation Engineer;

   (b) Be at least three-foot by five-foot in size or large enough to contain all the information required below whichever is larger.

   (c) Be placed in such positions that they can be read by traffic from each direction.

   (d) Be colored "construction orange" with black letters.

   (e) Have block letters at least six (6) inches in height;

   (f) Contain the following information: the name of the company for whom the work is being performed; the name of the contractor actually performing the work; a general description of the work to be done; the time frame within which the work will be performed, i.e. the date work will commence and the date all work will be completed; a twenty-four-hour contact phone number where persons may speak with a representative of the company for whom the work is being performed or may leave a request to speak with such a representative and for which all calls will be returned by such a representative within twenty-four (24) hours.

2. If the work will take less than one (1) week to perform such signage shall:

   (a) Be installed on temporary supports at an approved location;

   (b) Be placed in such positions that they can be read by traffic from each direction.

   (c) Be colored "construction orange" with black letters.

   (d) Have block letters at least six (6) inches in height;

   (e) Contain the following information: the name of the company for whom the work is being performed; a twenty-four-hour contact phone number where persons may speak with a representative of the company for whom the work is being performed or may leave a request to speak with such a representative and for which all calls will be returned by such a representative within twenty-four (24) hours.

Directional and Hog Drilling - Bore

The purpose of this agenda is to facilitate the efficient and timely development, design, and construction of projects within the Chander rights of way by ensuring that all agencies and utilities work together for a common goal; an asethically pleasing, safe, and final project.

Phases of Construction

Preliminary Construction Conference

Preconstruction meetings are mandatory when working within the public rights of way. The precon should cover the following;

1. Verification that each agency has a copy of the approved plan and permit.
2. Traffic control plans can be discussed, but TCP are approved by the Transportation Division. For questions, plan revisions, or date revisions, please contact Steve Lindl, Transportation Engineering Inspector, at (602) 377-0010 (cell), (480) 782-3453 (office), or (480) 782-3472 (fax), or Abraham Murua, Traffic Engineering Inspector, at (480) 212-6204 (cell), (480) 782-3477 (office) or (480) 782-3472 (fax). Keep in mind that sidewalks shall remain open at all times. In the event that sidewalks need to be closed, please discuss the situation with Transportation and they will indicate the sidewalk closure on the TCP.
3. Verification that a utility survey was conducted and complete. "The utility survey is conducted to accurately locate all existing (active or abandoned) utilities within the area of interest that could conflict with the planned installation. Manhole locations (elevations and tie-downs), diameter and depth should be confirmed, along with type, diamter and depth of services entering each manhole (4-15, HDD)". Be advised, "that possible migration of the back reamer of the pilot bore towards utility, due to excessive steering or tight radius, must be carefully considered when establishing clearences (5-4)". Verification of survey will be the submittal of an "actual" bore profile which indicates manhole inverts and clearances.
4. After the verification of the utility survey, the profile will be compared to Bluestake and approved plans to recognize consistencies and to discuss any discrepancies.
5. Verification of noticable-obvious existing conditions before construction. "Existing site conditions along and adjacent to the alignment should be carefully documented to support defense against frivilous claims of abutting property owners (4-15)".

City Notification

The Engineering Department requires notification forms be faxed to the City 24 hours before commencement of work at 480-782-3510. **Do not** leave notification on the inspector's cellular telephone. The notification form can be found in the "Utility Permit Manual", downloaded from the City website at udm.chandleraz.gov/index.php or picked up at the engineering counter. The constructing agency should fax the following in packet form:

<u>Notification form, Approved-signed TCP, Schedule of Work, Notification of Work to Residence/Business and a copy of the Bore Profile</u>

Construction Process

<u>During the Constuction process</u>;

- The constructing agency should retain a copy of the packet on the jobsite at all times.
- All sidewalks shall remain open and reflective vests worn.
- Drilling rig stake system utilized.
- Confirmation of utility locations by potholing (vacuum excavation or other non-destructive means) must always be performed before drilling. Review bore profile.
  - Permits will be suspended and a complaint with the Corporation Commission will be filed if blind boring is determined.
- Minimum coverage and clearance is required. Inspection required.
- Small plates prohibited - No 1x1

- All trench plates shall be recessed on streets where the posted speed limit is 30mph or greater. Steel plates must be able to withstand heavy traffic without any movement. Steel plates must recess on top of milled surface a minimum of 18" on all sides of the trench. Refer to MAG 211 for details.
- Plates shall be removed within 4 calender days.
- Trenches must be cleared of excess debris, cans, etc. before slurry.
- Half sack ABC slurry is required. Refer to Chandler detail C-110.
- Slurry must aerate (air dry) a minimum of two days.
- Excess barricades shall be "bundled" and placed in a conspicuous location daily.

Restoration - Restore to current code;

- Pavement replacement shall conform to City detail C-110 and C-111. All patches shall be tee topped. Laydown machine required, unless inspector overrides requirement.
- Concrete curb, gutter, sidewalk, sidewalk ramps, driveway and alley entrance restoration shall conform to MAG Section 340 and 601 and Chandler Supplement to the MAG;
  - ✓ Damaged concrete shall be removed joint to joint. Existing concrete sidewalks and driveways which abut the new sidewalks and driveway entrances shall be removed to a distance required to maintain a correct slope.
  - ✓ Expansion full depth and shall match joint.
  - ✓ Contractor shall stamp his name and year.
  - ✓ **Gutter flow will be maintained…**
  - ✓ The face, top back, and **flow line** of the curb and gutter shall be tested with a 10-foot straightedge or curve template, longitudinally along the surface.

REMOVE ALL BARRICADES, BAGS AND LITTER

Directional Drilling Checklist

Before construction;

❑	*Schedule Preconstruction Meeting*		*480-782-3358*
❑	*Traffic Control Plan*		*602-377-0010*
❑	*Verify Trash Pick up Dates*		*480-782-3510*
❑	*Bluestake, Bluestake, Bluestake*		*602-263-1100*
❑	*Review Bluestake, Bore Profile and approved construction plans to field conditions*		
❑	*Fax Notification Packet - 5;* ✓ *Notification Form* ✓ *"Actual" Bore Profile* ✓ *Approved and Signed Traffic Control Plan* ✓ *Schedule of Work* ✓ *Citizen Notification Information*		*480-782-3305*

After Construction;

❑	*Asphalt and concrete restored to current code and within MAG and Chandler Supplement Requirements*		
❑	*Potholes Restored Correctly (Tamped-Landscaped or Slurried-Street/S/W)*		
❑	*Spoil Piles Removed (No Back Dragging Dirt)*		
❑	*Private Property, PUE and City Rights of Way Restored to Like or Better Condition*		
❑	*Sidewalk, Curb and Gutter Cleaned and Litter Removed*		
❑	*Barricades Removed (Do Not Depend on Barricading Company)*		
❑	*Ask Inspector for Final Report*		

Residential Hole-Hog Procedures Only

Field Procedures

Before Work;

- ❑ Verify paperwork is current and accurate before work
  - o Check expiration date on permit.
  - o Check special instructions on permit.
  - o Verify home address matches permit and plan address.
  - o Verify bore profile is on approved plan.

- ❑ Verify Trash Pick Up Days
  - o Verify by calling 480-782-3510.

- ❑ Verify Bluestake is Current and Accurate
  - o If no markings are on the ground call supervisor for "recall" of bluestake. Do not dig.

- ❑ Check plans and Bluestake at the same time
  - o Look at plans to verify Bluestake marks and plan coincide.
  - o Example, if the plans show water and sewer parallel to sidewalk, check the sidewalk to see if the water and sewer marks are visible.
  - o If they do not match, contact your supervisor. Do not bore or trench.

Conflict Resolution;

- ❑ If the conduit can not be installed as permitted on the plan, stop work and contact supervisor.
- ❑ If the running line needs to be relocated greater than one foot or a City facility is closer than three feet, the City Inspector must be notified.

During Work;

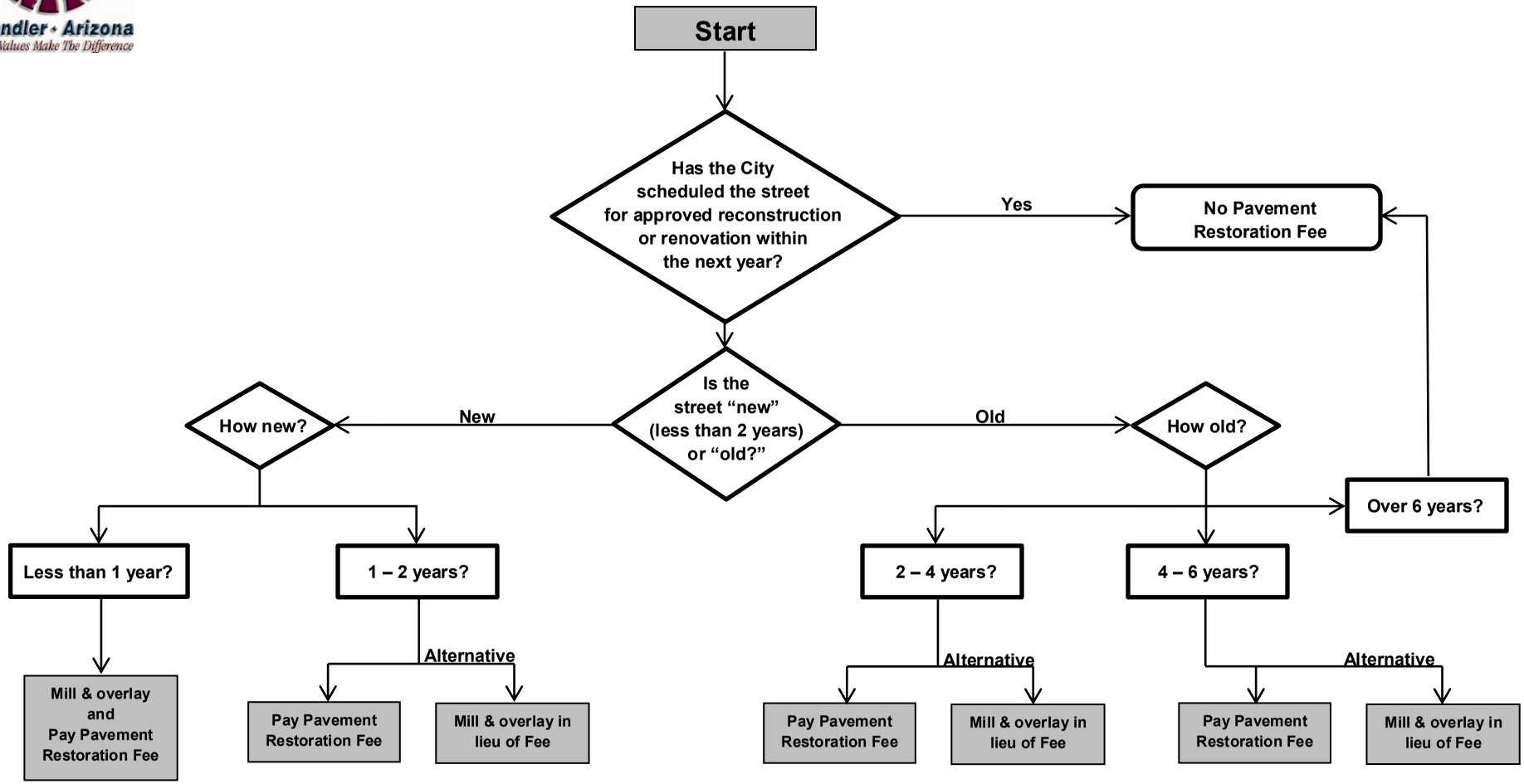
- ❑ Exposed water before starting bore.
- ❑ Expose line before work.
- ❑ Call Inspector to verify water has been cleared by greater than two feet.

After Work;

- ❑ Restore landscape to like or better condition.
- ❑ Check sidewalk and street for damage. If damage was caused, report damage to 480-782-3310.
- ❑ Remove extra dirt (spoil piles).
- ❑ Backdragging dirt is illegal. Haul dirt away.
- ❑ Remove all barricades, construction equipment and debris.

EXHIBIT J

Pavement Cut Requirements*



*Entities with Franchise agreements – Approval to cut pavement requires Reconstruction (if pavement is less than 1 year old) or Mill & Overlay (if pavement is 1 to 6 years old). A company with a Franchise agreement does have to apply IN WRITING for approval to pay the Pavement Restoration Fee and meet the associated reconstruction requirements of the Pavement Restoration Fee Ordinance (Section 46-2.7 of City Code).

Version 3.00

EXHIBIT K

ARTERIAL AND COLLECTOR STREET UTILITY CROSSINGS USING BORING METHODS POLICY

City of Chandler, Arizona

I. INTORDUCTION

The Purpose of this document is to present a reliable procedure to conduct street crossings to lessen the possibility of inadvertent damage to existing facilities within the street, minimize traffic disruptions, and reduce pavement cuts. In joint cooperation with the City of Chandler and local utility companies and other maintaining facilities in the City rights-of-way (utilities etal), the procedure was agreed in lieu of providing an "actual" bore profile submitted on the plan sheet during the permitting process. Instead of reviewing the bore profile from the permitting process, the City Inspector will obtain the bore profile from the contractor and review the profile in the field. The profile will become part of the permanent installation record held by the facility owner.

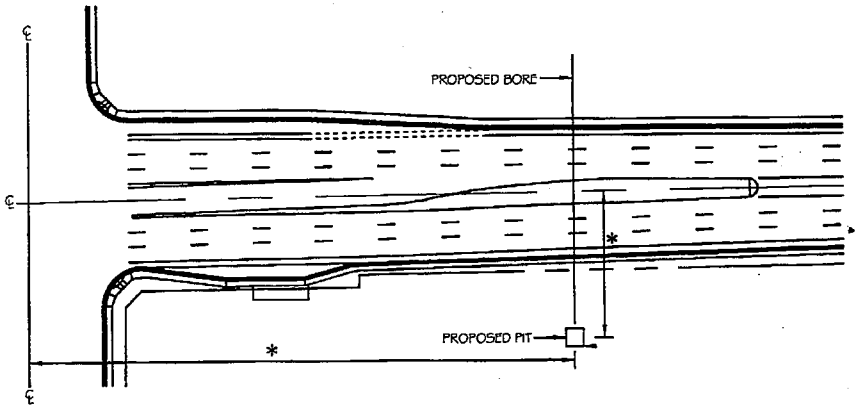
II. BORE PROFILE PROCEDURE

a. A blank bore profile sheet shall be submitted from the utility companies (utilities etal) within the plan set.
b. The blank bore profile will show elevations, coverage requirements, and required statements depicting clearance and inspector notifications.
   i. Required statements:
      1. *Minimum of 24 inches of clearance required between the outer edges of the facilities being bored to City property owner.*
      2. *Contact City Inspector 24-hours BEFORE work to review "actual bore" profile.*
   ii. A vertical scale that depicts installation of existing facilities is required.
      1. Please specify scale (i.e. 1" = 2', 1" = 3').
c. Utility companies (utilities etal) shall comply with ARS 40-360.22(d) when locating underground facilities prior to construction.
d. Utility companies (utilities etal) and others planning to bore in City rights-of-way shall notify the City Inspector 24-hours before work to schedule a bore inspection. The City Inspector will keep a copy of the bore profile.
e. Vacuum excavation in the rights-of-way shall be accomplished as outlined in the *Utility Permit Manual* under "Construction Requirements."

III. OTHER CONSIDERATIONS

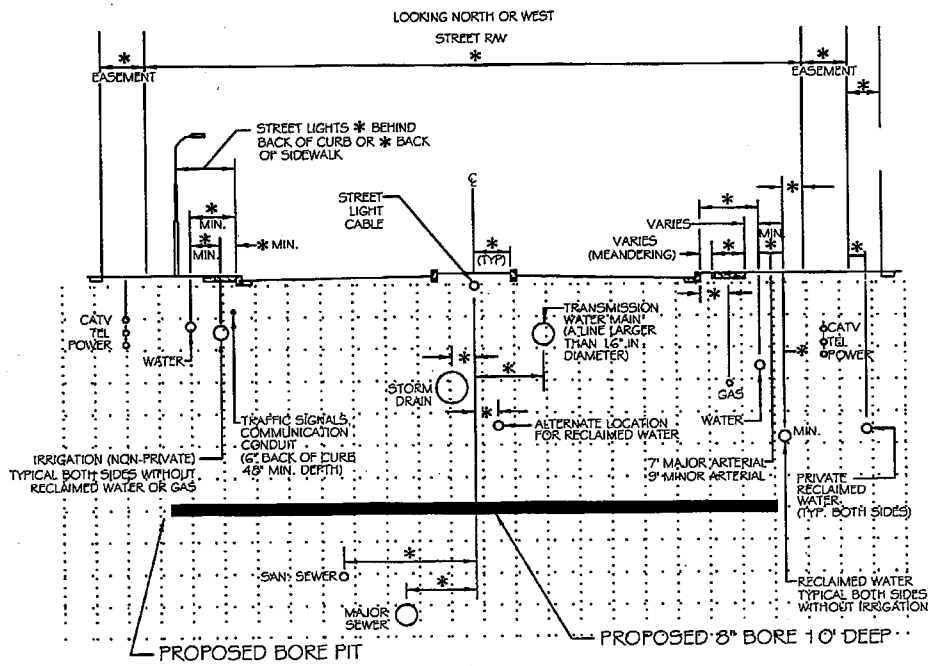
This memo does not relieve utility companies (utilities etal) or their contractor from ALL other City Policies, ordinances, uniformed standard specifications and details that are applicable to the work being performed within the rights-of-way or easement.

An "actual" bore profile will be accepted during the permitting process if preferred.



PLAN VIEW

NOT TO SCALE



BORE PROFILE TYPICAL SECTION

NOTES:

1. * PROVIDE PROPOSED LOCATION OF BORE AND ALL UTILITIES WITH VERTICAL & HORIZONTAL DIMENSIONS, AS WELL AS DIMENSIONS OF FACILITIES TO BE CROSSED.
2. 12" BY 12" MAX. SIZE POTHOLES ALLOWED TO VERIFY UNKNOWN UTILITY LOCATION AND TO MONITOR BORES PASSING WITHIN 2' OF EXISTING UTILITIES. CORE DRILLING IS PREFERED.
3. 1' X 1' AND 2' X 2' POTHOLE PLATES ARE NOT PERMITTED. RESTORE POTHOLES PER MAG STD DTL 212.
4. ALL BORES TO BE SLEEVED IN SCHEDULE 40 PVC OR BETTER.
5. BACKFILL REQUIREMENTS OF PIT SHALL BE PER MAG SECTION 601
6. JURISDICTION SHALL BE NOTIFIED IF OBSTRUCTIONS ARE ENCOUNTERED.
7. GUIDED BORE REQUIRED IF LENGTH IS MORE THAN 45'.
8. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER OF ANY DAMAGED FACILITY FOR ITS REPAIR OR REPLACEMENT. COST OF SUCH REPAIRS SHALL BE IN COMPLIANCE WITH M.A.G. OR SPECIAL AGREEMENTS.
9. REPLACE OR REPAIR ANY LANDSCAPING/SPRINKLER DAMAGED DURING THE COURSE OF THE WORK. PER MAG 107.9.
10. PERMISSION REQUIRED FROM THE CITY PRIOR TO REMOVING OR TRIMMING ANY LANDSCAPING.
11. 24" MIN. CLEARANCE SHALL BE PROVIDED BETWEEN BORE AND ALL EXISTING UTILITIES.

DETAIL NO.					DETAIL NO.
C-112	CITY OF CHANDLER STANDARD DETAIL	ENGINEERED UTILITY BORE	APPROVED: CITY ENGINEER		C-112
NTS			DATE: 01/08/09		NTS

EXHIBIT L

City of Chandler Transportation & Development Department Policy & Procedures	TDP-275 Revised February 2011

Abandoned Utilities in the City's Right of Way

I. PURPOSE: The purpose of this policy is to outline the procedure the City will follow to determine if utility facility removal is required or if alternatives may be used.

II. RESPONSIBILITY: The City Engineer shall ensure that all provisions of this policy and procedures are followed.

III. POLICIES

A. The Chandler City Code and the Transportation and Development Department Utility Manual cite regulations related to utilities being abandoned in City Right-of-Way. This includes but is not limited to City Code Chapter 46 2.9 (Abandonment or Removal) and Chapter 46-8.12 K (Removal and abandonment of property of licensee). In addition, many Use Agreements approved by Ordinance between the City and an individual Utility may have specific requirements related to abandonment. The City will review proposals to abandon utility facilities within its right-of-way on a case-by-case basis given the requirements in place related to the City Code, Use Agreements and the Utility Manual. The City Engineer will determine if utility facility removal is required or if alternatives may be utilized.

B. Utility facilities may be considered for abandonment in the right-of-way when one or more of the following conditions apply:

1. The City plans to transfer ownership of the right-of-way to another party and the receiving party allows abandonment of utilities within its right-of-way;

2. Removal of the utility would involve cutting a pavement structure less than two years old;

3. Removal of the utility would disrupt traffic or create a threat to public safety;

4. The Utility submits justification to the City that the cost of removal would exceed the public benefit;

5. The abandoned facility would not create significant conflict for future improvements;

6. Removal of the facility can be accomplished by the Utility at a later date during future project construction/reconstruction;

7. City determines that it may remove the abandoned utility without a cost increase to the current or future projects;

8. The Utility has a future need to re-use the facility.

IV. PROCEDURES

A. Requests to abandon a utility facility shall be made as part of the City's Encroachment process as outlined in City Code. A request to abandon the facility with appropriate justification shall be attached to the Utility's permit application. The following procedures are taken into consideration and may be adapted when interpreting how the individual case relates to any Use Agreement held by the Utility and the City Code.

B. The Utility shall maintain installation records for all facilities that are approved for abandonment. The Utility shall make these records available to the City at the time of request for abandonment. When the City provides copies of plans for City projects, the Utility shall respond to the City identifying conflicts with their abandoned facilities. If the abandoned facility must be removed to accommodate City project, the City will notify the Utility.

C. The Utility shall remove all above-ground appurtenances to all facilities approved for abandonment.

D. The Utility shall purge, cap or plug the ends of all facilities and conduct whatever procedures are necessary to safely abandon the facility.

E. The Utility shall be responsible for all of the costs associated with the maintenance, removal or relocation of its abandoned facilities within the City's right-of-way.

F. In the event of conflict between a City project and an abandoned utility facility, the Utility shall remove or pay for the removal of the facility provided that the Utility did not have prior rights.

G. Conflict is defined as and caused by the following:

1. A grade change resulting in less separation from the proposed work than is acceptable.

2. The proximity of the abandoned facility interferes with the constructability or construction method.

3. The utility facility impacts construction efficiency, project schedules or phasing.

4. The location, type, or size of the facility interferes with construction and/or operations of City's projects and results in an increase in the City's cost of work.

H. If the Utility decides to remove the abandoned facility, the Utility shall insure the removal will not interfere with City projects or other facilities in the right-of-way.

I. Should the Utility request to include the facility removal in a City construction project, there shall be sufficient time to allow for any special conditions to be placed into the contract documents and the Utility will reimburse the City for costs associated with the removal.

J. If the City's contractor removes the abandoned facilities under its contract, the Utility owner shall reimburse the City for all costs associated with the removal and disposal of the facility.

K. Appeals may be made in accordance with City Code.

_____
Transportation and Development Director

6-23-11
_____
Date

Exhibit M – Utility Details Here, 8 Pages

EXHIBIT N

City of Chandler

Request for Inspection Outside Normal Business Hours

Date of Request: _____ Date of Work:_____

Project Name:
_____

Project Location: _____

Contractor of Project: _____

Purpose:
_____
_____
_____
_____
_____

City Of Chandler Permit #:_____

_____ _____

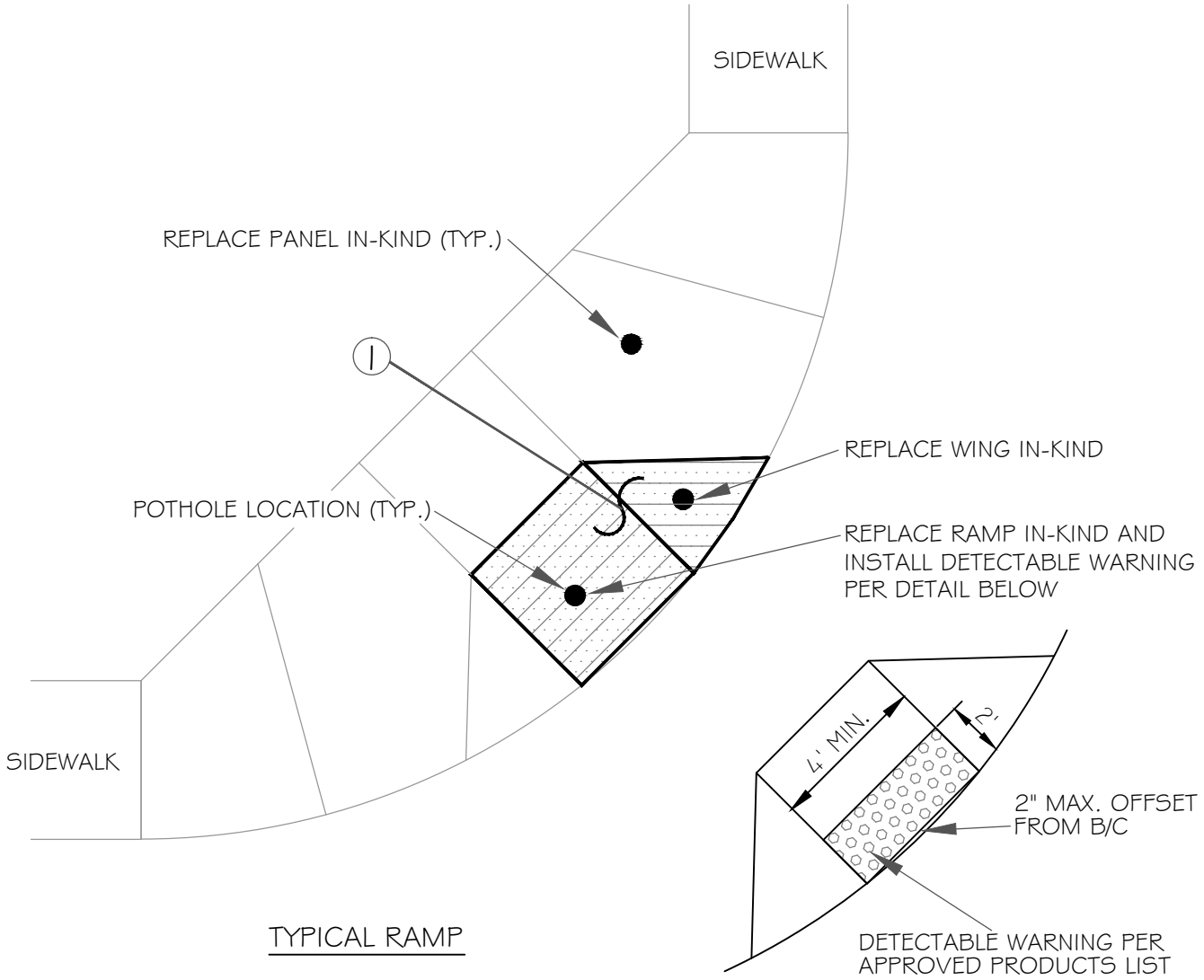
Signature of Developer Requesting Overtime Date

_____ _____

Inspector's Signature Date:

Normal Inspector's Hours are: 6:00 am to 2:30pm Monday through Friday

Before working on a Saturday, Sunday or City Holiday, you must request an inspector for that day. Your company will be charged **$97.00 per hour** for such inspections. There is a minimum charge of **$194.00** (2 hour minimum charge) per project on these days. Also, work that requires an inspector's presence after normal working hours may be subject to this charge. Failure to notify the City prior to working on a weekend or holiday may result in a civil fine not to exceed $1,000.00. If you have any further questions, please contact the Construction Management Office at (480)782-3336.



TYPICAL RAMP

1 WHEN THE TWO AREAS OF THE RAMP AND/OR WINGS ARE REMOVED, AND THE WALKWAY AREA DOES NOT MEET CURRENT ADA REQUIREMENTS FOR WIDTH OF ACCESSIBLE PATH, LANDING AREA, AND SLOPES, THE ENTIRE RAMP AND WALKWAY AREA SHALL BE REPLACED TO MEET CURRENT ADA REQUIREMENTS. REPLACEMENT SHALL BE BASED ON THE FOLLOWING REQUIREMENTS OR AS OTHERWISE DIRECTED BY CITY ENGINEER:

A) CAN REMAIN DIAGONAL IF THE OTHER 3 RAMPS AT A FOUR-WAY CROSSING ARE DIAGONAL OR THE RECEIVING RAMP FOR A TWO-WAY CROSSING IS DIAGONAL.

B) SHALL BE REPLACED AS A DIRECTIONAL RAMP IF AT A FOUR-WAY OR TWO-WAY CROSSING ONE OF THE RECEIVING RAMPS IS DIRECTIONAL.

C) SHALL BE REPLACED AS A DIRECTIONAL RAMP IF FOR A SINGLE CROSSING OF A SIDE STREET OR DRIVEWAY.

D) IF THE UTILITY IMPACTS BOTH RAMPS ON ANY CROSSING DIRECTION AT AN INTERSECTION, BOTH RAMPS SHALL BE REPLACED AS DIRECTIONAL.

REVISED 9/24/2015

CITY OF CHANDLER STANDARD DETAIL

RAMP REPLACEMENT REQUIREMENTS

UTILITY POTHOLE WITHIN RAMP LIMITS