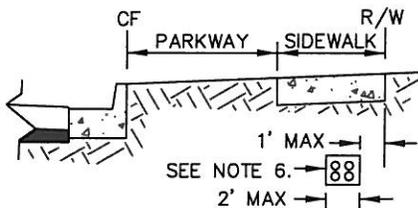


- CF = CURB FACE
- SW = SIDEWALK
- R/W = RIGHT OF WAY
- DW = DOMESTIC WATER
- G = GAS
- L = STREET LIGHTING
- RW = RECYCLED WATER
- SD = STORM DRAIN
- S = SEWER
- T = TELEPHONE
- TV = CABLE TELEVISION
- E = ELECTRICAL
- SI = SIGNAL INTERCONNECT
- FO = CITY FIBER OPTIC

* FINAL LOCATION TO BE DETERMINED BASED ON LANE CONFIGURATION, MANHOLES AND VALVES TO BE PLACED OUTSIDE THE VEHICLE WHEEL LINE.

TYP. UTILITY LAYOUT
(SECTION LOOKING NORTH AND WEST) NTS



JOINT UTILITY TRENCH
SECTION A-A

WATER AND RECYCLED WATER

1. THE SYSTEM SHALL BE DESIGNED TO MAXIMIZE THE PLACEMENT OF UTILITIES IN STREET FRONTAGE WHEN AVAILABLE AND AVOID ROUTING UTILITIES THROUGH ALLEYS.
2. THE SYSTEM SHALL BE DESIGNED TO MINIMIZE DEAD ENDS TO THE EXTENT POSSIBLE, AND IMPLEMENT A MANIFOLD METER WHEN THREE OR MORE METERS ARE GROUPED.
3. WHEN STREET FRONTAGE IS NOT AVAILABLE, THE ENGINEER WILL LOCATE WET UTILITIES WITHIN THE ALLEYS.
4. WATER MAINS NOT LOOPED OR LOCATED ON SHORTER ALLEYS COULD BE METERED FROM THE ALLEY ENTRANCE WITH MULTIPLE LATERALS, GENERALLY UP TO SIX METERS AS APPROVED BY CITY ENGINEER.

SEWER

5. PLACEMENT OF SEWER LATERALS WILL BE MAXIMIZED IN STREET FRONTAGE WHEN AVAILABLE. PRIVATE COLLECTIVE LATERALS IN ALLEYS MAY BE PERMITTED AS APPROVED BY THE CITY ENGINEER.

NOTES

1. PROVIDE 1' MINIMUM CLEARANCE AT UTILITY CROSSINGS
2. BETWEEN CURBS, COVER FOR LATERALS SHALL NOT BE LESS THAN 30" BELOW ROADWAY SURFACE.
3. MINIMUM SEPARATION BETWEEN WATER AND SEWER SHALL BE PER CITY STANDARD DRAWING NUMBER 4001.
4. VARIATIONS FROM STANDARD WILL REQUIRE PRIOR APPROVAL FROM CITY ENGINEER.
5. SEE CITY STANDARD DRAWING NUMBER 5014 FOR CURB RETURN AREA CLEAR ZONES.
6. A SINGLE, 2' WIDE MAXIMUM COMMON DRY UTILITY DUCT BANK (TO INCLUDE ELECTRIC, TELEPHONE, GAS, AND FIBER OPTICS) WILL BE ALLOWED. MINIMUM COVER WILL BE 42" TO CROSS THE CLEAR ZONE PER CITY STANDARD DRAWING NUMBER 5203 AND SHALL NOT BE LOCATED MORE THAN 1-FOOT OFF OF THE RIGHT-OF-WAY LINE.
7. PROVIDE 4' MINIMUM WALL TO WALL CLEARANCE FOR ALL UTILITIES.



APPROVED BY:				
<i>Louis Bi-Younes</i>		10-21-15		
LOUIS ABI-YOUNES, PE.	44485	RCE	DATE	
RECOMMENDED:				
<i>Raymond Lee</i>		10/20/15		
RAYMOND LEE, PE.	59059	RCE	DATE	
REV	DESCRIPTION	BY	APP'D	DATE

CITY OF ONTARIO	
UTILITY LOCATIONS FOR STANDARD ALLEY STREET	
STANDARD DRAWING NUMBER	1304