

SERVICE LINE AND METER CLEARANCES

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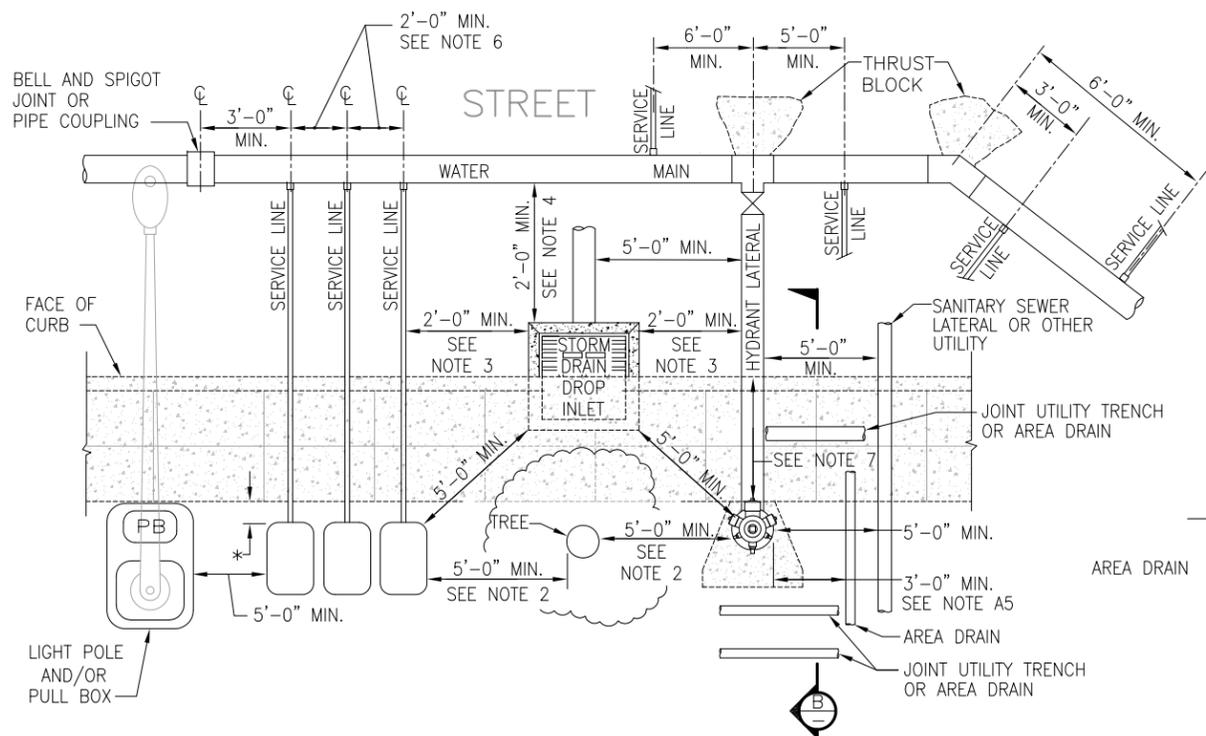
NOTES:

- UNLESS OTHERWISE NOTED HEREON, A MINIMUM 5'-0" HORIZONTAL CLEARANCE (EDGE TO EDGE) IS REQUIRED FROM EDGE OF WATER FACILITY TO OTHER UTILITY, INCLUDING BUT NOT LIMITED TO SANITARY SEWER LATERALS, STORM DRAINS, ELECTRICAL CONDUITS, LIGHT POLES, AND UTILITY BOXES.
- A MINIMUM 5'-0" HORIZONTAL CLEARANCE IS REQUIRED FROM EDGE OF WATER FACILITY TO EDGE OF TREE TRUNK. A MINIMUM 3'-0" HORIZONTAL CLEARANCE IS REQUIRED FROM EDGE OF WATER FACILITY TO EDGE OF ANY PLANT THAT WILL OBSCURE OR LIMIT ACCESS TO THE FACILITY.
- IF THERE IS NO REASONABLE ALTERNATIVE LOCATION, WATER SERVICE LINES AND FIRE HYDRANT LATERALS SHALL HAVE A MINIMUM 2'-0" HORIZONTAL CLEARANCE FROM THE NEAREST EDGE OF A STORM DRAIN DROP INLET STRUCTURE OR OTHER EQUIVALENT SMALL STORM DRAIN STRUCTURE WHERE THE LIMITS OF THE INSUFFICIENT CLEARANCE (SEE NOTE 1) IS NOT LONGER THAN 6'-0".
- A MINIMUM 2'-0" HORIZONTAL CLEARANCE IS REQUIRED BETWEEN THE EDGE OF A WATER MAIN AND THE EDGE OF A STORM DRAIN DROP INLET STRUCTURE OR OTHER EQUIVALENT SMALL STORM DRAIN STRUCTURE WHERE THE LIMITS OF THE INSUFFICIENT CLEARANCE (SEE NOTE 1) IS NOT LONGER THAN 6'-0". SEE STANDARD DRAWING CL-1-08 FOR REQUIRED CLEARANCES BETWEEN WATER MAINS AND BUILDINGS, PARALLEL UTILITIES AND OTHER IMPROVEMENTS.
- JOINT UTILITY TRENCH AND AREA DRAINS MAY CROSS SERVICE LINES AT PERPENDICULAR ANGLES AND SHALL MAINTAIN A MINIMUM 1'-0" VERTICAL CLEARANCE (EDGE TO EDGE) AND A MINIMUM 6" HORIZONTAL CLEARANCE (EDGE TO EDGE) FROM THE SERVICE LINE.
- SERVICE LINE CONNECTIONS (2" OR SMALLER DIAMETER) SHALL BE SPACED A MINIMUM 2'-0" APART.
- FOR PROPER LOCATION OF FIRE HYDRANTS RELATIVE TO CURB AND/OR SIDEWALKS, SEE STANDARD DRAWING FH-2-08.
- THE CLEARANCES AND LOCATIONS OF AIR VALVE LINES AND BOXES SHALL CONFORM TO CLEARANCES AND LOCATIONS OF SERVICE LINES AND METER BOXES SHOWN HEREON.
- THE CLEARANCES OF STEEL SERVICE LINES (GREATER THAN 2" DIAMETER) SHALL CONFORM TO CLEARANCES OF FIRE HYDRANT LATERALS SHOWN HEREON.

*FOR METER BOX LOCATION RELATIVE TO CURB AND SERVICE LINES, SEE STANDARD DRAWINGS S-1-08 THROUGH S-8-08 AND S-10-08.

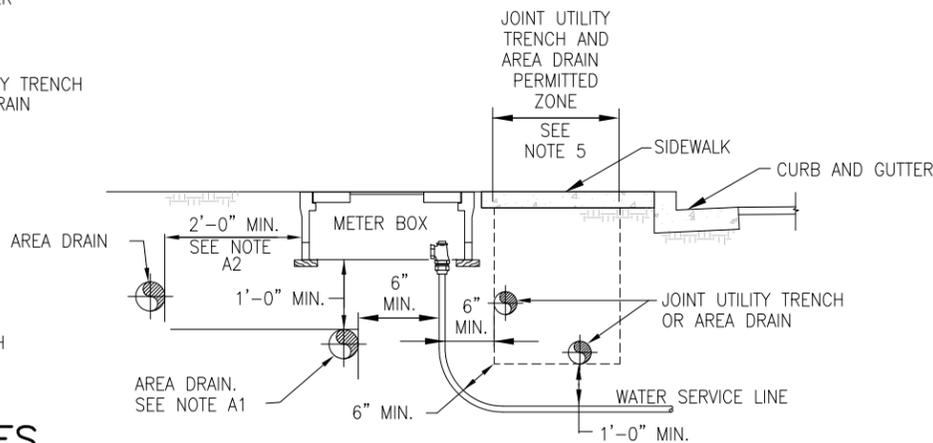
AREA DRAIN NOTES:

- AREA DRAINS LOCATED DIRECTLY BENEATH THE METER BOX OR LESS THAN 2'-0" HORIZONTALLY BEHIND THE METER BOX SHALL MAINTAIN A MINIMUM 1'-0" VERTICAL CLEARANCE (EDGE TO EDGE) FROM THE BOTTOM OF THE METER BOX AND A MINIMUM 6" HORIZONTAL CLEARANCE (EDGE TO EDGE) FROM THE SERVICE LINE.
- AREA DRAINS LOCATED BEHIND THE WATER METER BOX SHALL MAINTAIN A MINIMUM 2'-0" HORIZONTAL CLEARANCE (EDGE TO EDGE) FROM THE METER BOX.
- AREA DRAINS OR JOINT UTILITY TRENCH MAY CROSS HYDRANT LATERALS AT PERPENDICULAR ANGLES AND SHALL MAINTAIN A MINIMUM 1'-0" VERTICAL CLEARANCE (EDGE TO EDGE) ABOVE THE HYDRANT LATERAL AND A MINIMUM 2'-0" HORIZONTAL CLEARANCE (EDGE TO EDGE) FROM THE HYDRANT BURY.
- AREA DRAINS OR JOINT UTILITY TRENCH LOCATED BEHIND THE HYDRANT SHALL MAINTAIN A MINIMUM 2'-0" CLEARANCE (EDGE TO EDGE) FROM THE HYDRANT BURY. WHEN AREA DRAINS ARE LOCATED AT OR BELOW THE DEPTH OF THE HYDRANT BURY THRUST BLOCK, A MINIMUM 5'-0" CLEARANCE (EDGE TO EDGE) FROM THE BACK OF THE HYDRANT BURY THRUST BLOCK SHALL BE MAINTAINED.
- AREA DRAINS LOCATED PARALLEL TO SERVICE LINES OR HYDRANT LATERALS SHALL MAINTAIN A MINIMUM 3'-0" HORIZONTAL CLEARANCE (EDGE TO EDGE) FROM THE NEAREST EDGE OF THE SERVICE LINE, METER BOX, OR FIRE HYDRANT.



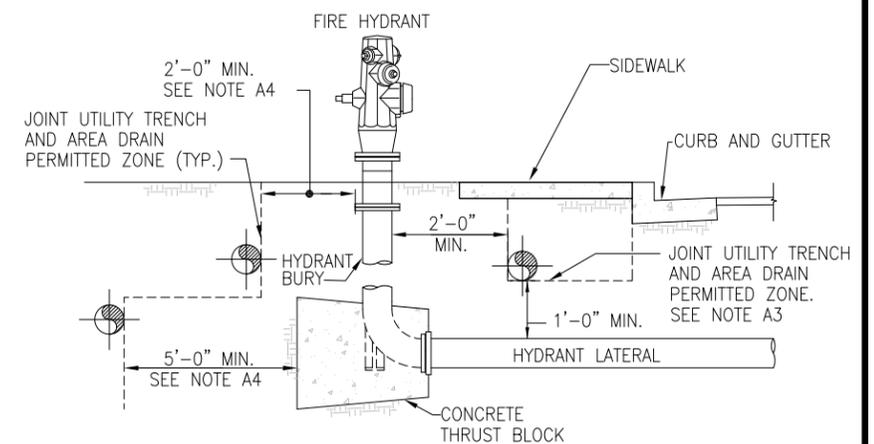
SERVICE LINE, METER AND APPURTENANCE CLEARANCES

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SECTION A

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SECTION B

NTS

APPROVED *Robert Chavez* 12/15/2008
ENGINEERING MANAGER DATE

NO.	DATE	REVISION	BY	APP.	DIV. MGR.	EHS
0	12-08	NEW STD. DWG.	RMF	LJA		

DESIGNED ACWD
DRAWN RMF
CHECKED LJA
DIV. MGR. EHS

ALAMEDA COUNTY WATER DISTRICT
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STANDARD DRAWING

CLEARANCE REQUIREMENTS FOR WATER MAINS, SERVICES AND OTHER FACILITIES

DATE: DEC. 2008
SCALE: NONE
DWG. NO. CL-4-08
REV. 0