FIGURE 4.1 STANDARD WATER MAIN LOCATION AT CUL-DE-SAC

- Restrain joints of valve and hydrant with anchor couplings and/or mega-lug glands as appropriate, install reducer if necessary.
- Fire hydrant to be located at property line between lots. (For cul-de-sac greater than 250 ft)
- Deflect joints of pipe or install bend as necessary to place hydrant on property line.
- Add hydrant at mid point of cul-de-sac if greater than or equal to 700 feet in length.
- Curb line of existing or proposed paving (typ).
- 6'-7' typ.
- Right-of-way (typ).
- Radius (typ).
- Valve
- 6'-7' typ.
- End of radius (typ).
- Water main (typ)
- 6'-7' typ.
NOTES:
1. INSTALL FOUR VALVES AND ONE HYDRANT AT EACH INTERSECTION.
2. WHEN POSSIBLE LOCATE FIRE HYDRANT NEAR HIGH POINT.
3. FIRE HYDRANTS AND VALVES SHOULD BE PLACED OUTSIDE OF INTERSECTION RETURN RADIUS SO AS NOT TO BE IN CONFLICT WITH STORM SEWERS AND INTAKES.
4. MAJOR ARTERIAL STREETS MAY REQUIRE ADDITIONAL HYDRANTS.
5. DEPENDING UPON THE NUMBER OF SERVICE CONNECTIONS IN BETWEEN A VALVE AT AN INTERSECTION MAY BE OMITTED IF THERE IS AN IN-LINE VALVE LESS THAN 400 FT AWAY.
WHERE POSSIBLE LOCATE HYDRANTS ON THE DOWNHILL SIDE OF AN ON-LINE VALVE FOR AIR RELEASE AND FLUSHING PURPOSES. HYDRANTS SHALL BE LOCATED ON SIDE LOT PROPERTY LINES WHENEVER POSSIBLE.
0.5% CATER SLOPE
60° ROW, 25' RAD IIUS
28' INTERSECTION 28'

NOTE: THE TRUNCATED
ELEVATIONS (TOP)
NEAREST SPOT
ARE BETWEEN THE
SLOPES SHOWN.

TRUNCATED DOMES (TOP)

1/2' LIP

PC

PT

FILE NO.: SIDEWALK DWG

APPROVED BY: KMD
DRAWN BY: JH/LJR

DATE: 12/01/20
SCALE: 1” = 5'

DETAILS 2700-115 AND
WITH METRO STANDARD
SHALL BE IN ACCORDANCE
DOMES PATTERN AND SIZE
OF CURB IS 6” TO 8”
OFFSET FROM THE BACK
SUCH THAT THE MAXIMUM
STAGGERED AS SHOWN.
DOMES SHALL BE
NOTE: THE TRUNCATED
DOMES
2.0% CUTTER SLOPE
60' ROW, 25' RADIUS
28° INTERSECTION 28°

NOTE: THE TRUNCATED DOMES SHALL BE IN ACCORDANCE WITH METRO STANDARD.

DETAILS:
- The curb is 6' to 8'.
- Offset from back such that the maximum stackerd as shown.

TRUNCATED DOMES (1TP)
1/2' LIP

ROW CORNER CUT (1TP)

ELEVATIONS (1TP)
2700-11.5
Details: 2700-11.5 and
with metro standard
shall be in accordance
with pattern and size
of curb is 6" to 8".
Offset from the back
such that the maximum
stacked as shown.
Domes shall be

NOTE: THE TRUNCATED
TRUNCATED DOMES (TOP)

ELEVATIONS (TOP)
NEAREST SPOT
ARC BETWEEN THE
SLOPES SHOWN

ROW CORNER CUT (TOP)

1/2" LIP

1/2" LIP

PC

PT
Detials 2700-115 and 2700-113 AND
WITH METRO STANDARD
SHALL BE IN ACCORDANCE
DOE PATERN AND SIZE
OF CURB IS 6" TO 8"
OFFSET FROM THE BACK
SUCH THAT THE MAXIMUM
STAGED AS SHOWN.
NOTE: THE TRUNCATED
DOMES SHALL BE
ELEVATIONS (TYP)
NEAREST SPOT
ARE BETWEEN THE
STAGES SHOWN

5.0% CUTTER SLOPE
60' ROW, 25' RADJUS
28' INTERSECTION 28'
NOTE: THE TRUNCATED DOMES SHALL BE IN ACCORDANCE WITH METRO STANDARD.

DETAILED 2700-11.5 AND OF CURB IS 6" TO 8" OFFSET FROM THE BACK. SUCH THAT THE MAXIMUM TRUNCATED AS SHOWN.

DOMES SHALL BE

+0.5% CUTTER SLOPE

60', AND 70', ROW, 30', RADII

28', INTERSECTION 31'
- 5% CUTTER SLOPE
60' AND 70' ROW, 30' RADIUS
28', INTERSECTION 31'

NOTE: THE TRUNCATED DOMES (TYP)

TRUNCATED DOMES (TYP)

NAREST SPT
ARE BETWEEN THE
SLOPES SHOWN

ROW CORNER CUT (TYP)

LEVELATIONS (TYP)

DATE: 12/01/04
APPROV BD: KMD
DRAWN BY: JH/JLR
FILE NO: SIDEWALKDWG

SCALE: 1" = 5'

DETAILED 2700-113 AND
WITH METRO STANDARD
SHALL BE IN ACCORDANCE
DOMES PATTERN AND SIZE
OF CURB IS 6” TO 8”
OFFSET FROM THE BACK
SUCH THAT THE MAXIMUM
STAGGERED AS SHOWN,

8', WIDE ST
Details of 2700-115 And
With Metro Standard
Shall Be In accordance
Dome Pattern And size
Of Curb Is 6" To 8"
Offset From The Back
Such That The Maximum
Staggered As Shown.
NOTE: The Truncated
DOMES SHALL BE
TRUNCATED DOMES (Typ)
Lip (Typ)
ELEVATIONS (Typ)
Nearest Spot
Area Between The
Slopes Shown
Row Corner Cut (Typ)
2700-115.

2700-115 AND DETAIL IS 2700-113 AND WITH METRO STANDARD SHALL BE IN ACCORDANCE DOME PATTERN AND SIZE OF CURB IS 6" TO 8" OFFSET FROM THE BACK SUCH THAT THE MAXIMUM STACKED AS SHOWN. DOMES SHALL BE

NOTE: THE TRUNCATED

TRUNCATED DOMES (Typ)

AT SPRINKLER SPOT

NEAREST SPOT I/2' LIP

SLOPES SHOWN

1/2' LIP

ELEVATIONS (Typ)

ROW CORNER CUT (Typ)

1.0% CUTTER GRADE

30', RADIUS 60', AND 70', ROW 30', RADIUS 60', AND 70', ROW 28', INTERSECTION 31'

28', WIDE ST

31', WIDE ST

Pt
+2.0% CUTTER SLOPE
60' AND 70' ROW, 30' RADIUS
28' Intersection 31'

2700-115.
DETAILS 2700-115 AND
WITH METRO STANDARD
SHALL BE IN ACCORDANCE
DOME PATTERN AND SIZE
OF CURB IS 6' TO 8'.
OFFSET FROM THE BACK
SUCH THAT THE MAXIMUM
STAGGERED AS SHOWN.
DOMES SHALL BE
NOTE: THE TRUNCATED

ELEVATIONS (TYP)
NEAREST SPIE
AND BETWEEN THE
SLOPE SHOWN
2700-115.

Details 2700-113 AND
WITH METRO STANDARD
SHALL BE IN ACCORDANCE
CURB IS 6" TO 8".
OFFSET FROM THE BACK
SUCH THAT THE MAXIMUM
STAGGERED AS SHOWN.
DOMES SHALL BE
NOTE: THE TRUNCATED
DOMES (TYP).

-2.0% CUTTER SLOPE
60' AND 70' ROW, 30' RADIUS
28', INTERSECTION 31'

ROW CORNER CUT (TYP)
ELEVATIONS (TYP)
NEAREST SPOT
ARE BETWEEN THE
SLOPES SHOWN

PC

3/4 WIDE ST

28, WIDE ST
-4.0% CUMBER SLOPE
60', 70', ROW, 30', RADIUS
28', INTERSECTION 3'1".

NOTE: THE TRUNCATED DOMES (TYD)

ELEVATIONS (TYD)

NEAREST SPOT

AREA BETWEEN THE
SLIDES SHOWN

1/2" LIP

28' WIDE ST

PT

3'1" WIDE ST

2700-115.

Details 2700-113 AND
WITH METRO STANDARD
SHALL BE IN ACCORDANCE
DOMES PATTERN AND SIZE
OF CURB IS 6" TO 8".
OFFSET FROM THE BACK
SUCH THAT THE MAXIMUM
TRUNCATED AS SHOWN.
DOMES SHALL BE
NOTE: THE TRUNCATED
DOMES (TYD)

SCALE 1" = 5'
DATE: 12/01/04
APPROVED BY: KWD
DRAWN BY: LH/TLR
FILE NO.: SIDEWALKDWG
2700-113 AND 2700-115:
With Metro Standard Details
AND SIZE SHALL BE IN ACCORDANCE
OF CURB IS 6” TO 8” DOME PATTERN
THE MAXIMUM OFFSET FROM THE BACK
BE STACKED AS SHOWN, SUCH THAT
NOTE: THE TRUNCATED DOMES SHALL
TRUNCATED DOMES (TP)
NEAREST SPOT
ARE BETWEEN THE
SLOPES SHOWN
ROW CORNER CUT (TP)
LOWEST ELEVATION (TP)
(3/16"
1/8"
2/16"
1/16"
3/16"
7/16"
1/8"
1/4"
3/16"
1/8"
1/8"
1/4"
1/8"
1/4"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
3/16"
1/8"
1/4"
3/16"
1/8"
1/8"
Details 2700-113 and 2700-115. Adjustments made to be consistent with Metro Standards. Paver pattern and size shall be in accordance with Metro Standards. Back of curb is 6" to 8". Dome shall be stacked as shown. Such that one edge of the dome is in the back of the curb. The maximum offset from the centerline shall be 0.5", and the truncation should be done as shown. The truncated domes shall be in accordance with Metro Standards.

NOTE: The truncated domes shall be in accordance with Metro Standards.

28' WIDE ST

3'6" ROW

1/2" LIP

1/2" LIP

ROW CORNER CUT (1/2"

3'6" ROW

28' INTERSECTION 31'

28', INTERSECTION 31',

5.0% CUTTER SLOPE

60' & 70' ROW, 30', RADIAN,

CEDAR RAPIDS
0.5% Gutter Slope
70' Row, 30' Radius
31' Intersection 31'

2700-115.
DETAILS 2700-113 AND
WITH METRO STANDARD
SHALL BE IN ACCORDANCE
DOME PATTERN AND SIZE
OF CURB IS 6" TO 8".
OFFSET FROM THE BACK
SUCH THAT THE MAXIMUM
STAGED AS SHOWN.
DOME SHALL BE
NOTE: THE TRUNCATED

TRUNCATED DOMES (TYP)
1/2' LIP

ELEVATIONS (TYP)
NEAREST SPOT
ABETWEEN THE
SLOPES SHOWN

1.0% Gutter Grade
30' Radius
70' Row
31' Intersection 31'
2.0% CUTTER SLOPE
70' ROW, 30' RADIUS
31' INTERSECTION 3'1".

NOTE: THE TRUNCATED DOMES SHALL BE IN ACCORDANCE WITH METRO STANDARD.

DETAILS 2700-11.5 AND 2700-11.3.
OFF Curb IS 6" TO 8" OFFSET FROM THE BACK SUCH THAT THE MAXIMUM STAGERED AS SHOWN.

SCALE: 1" = 5', DATE: 12/01/04
APPROVED BY: KWD
DRAWN BY: LH/LRP
FILE NO.: SIDEWALK@DWC
2700-115.
Details 2700-113 and
with Metro Standard
shall be in accordance
of Curb Is 6" to 8".
offset from the back
such that the maximum
stacked as shown.
Note: the truncated

4.0% Gutter Slope
70' Row, 30' Radius
31' Intersection 31'
5.0% CULVERT SLOPE
70' ROW, 30' RADII
31' INTERSECTION 31'

NOTE: THE TRUNCATED DOMES

METRO STANDARD DETAILS
SHALL BE IN ACCORDANCE WITH
TO 8" DOME PATERN AND SIZE
FROM THE BACK OF CURB IS 6"
SUCH THAT THE MAXIMUM OFFSET
SHALL BE STAGEGED AS SHOWN.

ELEVATIONS (1TP)
NEAREST SPOT ARE BETWEEN THE SLOPES SHOWN

ROW CORNER CUT (1TP)

5.0% CUTTER GRADE
30' RADII
70' ROW
31' INTERSECTION 31'
FIGURE 9.1 TYPICAL PAVEMENT/UTILITY SECTION

LOCAL RESIDENTIAL STREET