

Updates for City of Rockwall Standards of Design and Construction October 2007

1. GENERAL REQUIREMENTS

- A. All signs for development are required to have a separate permit from the City of Rockwall and not approved on engineering/site plans.
- B. All projects shall have a 10%, two year maintenance bond.
- C. All revisions to approved engineering plans shall be designated with a cloud around the revision and an explanation and date.

2. STREETS

- A. Cul-de-sac shall have a minimum paving radius of 47.5' and right-of-way radius minimum of 57.5'.
- B. Concrete shall not be placed if the concrete temperature is 95 degrees or above.
- C. No sand under vehicular paving.
- D. All non-structural cracks in paving shall be routed and sealed.
- E. All sidewalks to be built by developers along any open spaces, park areas, and/or green belts at time of development.
- F. Sidewalks are a minimum of 5' and located 2' inside the right-of-way. If a fire hydrant is too close, swerve sidewalk toward the right-of-way line to maintain 5' clear path. If sidewalk has to be built outside the right-of-way, a sidewalk easement is required.
- G. All new public parkways (collector and arterial streets) to be sodded with grass prior to acceptance.
- H. Dumpster pads shall be 7" 3600 psi concrete. If dumpster is to facilitate a food site, the dumpster site shall have a slot drain going to a storm line connected to an oil/water separator or a line from the slot drain to the sewer grease trap, to drain all dumpster area water prior to leaving the dumpster site.

3. STORM DRAINAGE FACILITIES

A. Storm water intensity for different storm years shall be as follows:

<u>100 year</u>	<u>50 year</u>	<u>25 year</u>	<u>10 year</u>	<u>5 year</u>	<u>2 year</u>	
10 min	9.8	9.0	8.3	7.1	6.1	5.3
15 min	9.0	8.1	7.5	6.5	5.5	4.5
20 min	8.3	7.5	6.6	5.9	4.9	3.9
30 min	6.9	6.1	5.5	4.8	4.1	3.3
40 min	5.8	5.2	4.6	4.0	3.4	2.6
50 min	5.0	4.5	4.0	3.5	2.8	2.3
60 min	4.5	3.9	3.5	3.0	2.6	1.9
70 min	4.0	3.7	3.3	2.8	2.4	1.8
80 min	3.7	3.5	3.1	2.6	2.3	1.7
90 min	3.5	3.3	2.9	2.5	2.1	1.6
100 min	3.4	3.0	2.7	2.4	1.9	1.5
110 min	3.2	2.9	2.5	2.3	1.8	1.4

B. No grate inlets allowed except with written by the City Engineer.

C. All inlets (edge of opening) shall be a minimum ten (10) feet from street curb return.

D. Storm sewers, with less than 2' of cover, are required to be Class IV RCP.

E. No trees shall be planted within 5' of any public utilities.

F. All rip-rap at the outflow of storm pipe shall be grouted

G. A chart shall be furnished by the design engineering showing the allowable flows verses actual flows for 5, 10, 25, and 100 year storm events for all detention pond outflow structures.

H. All detention ponds shall have 2' freeboard from the 100 year water surface.

I. All detention ponds, drain ways, and open channels shall have the sides and bottom stabilized with sod or anchored seeded matting prior to any paving.

J. In construction entrances, no crushed concrete is allowed and rock must be 12" thick.

K. No wooden stakes or hay/straw bales to be allowed on any erosion control device.

4. VEGETATION

A. None

5. WATER SYSTEM

A. Residential and duplex areas shall have a fire hydrant at each street intersection and at four hundred foot (400') intervals on the interior of each block.

B. All fire hydrants shall have 5' clearance around.

C. Fire hydrants shall be a minimum of 3' behind the curb of a fire lane, driveway, access, and/or street.

D. Water lines shall have blue EMS locator pads at every 250', change in direction, valve, and service.

E. Dead end non-residential water lines shall only have one fire hydrant or service without looping the water line.

F. Water shall be placed five feet (5') behind curb.

G. No trees shall be planted within 5' of any public utilities.

H. Minimum public water pipeline size is 8".

I. No compaction fittings allowed.

J. Valve extensions shall be stainless steel.

K. All meter boxes shall be DFW65C-14-0KSBSM, DFW1814-BPLCIR, or DFW-2818-PLCIR.

L. All existing fire flows and pressure tests shall be obtained from a private company. The City of Rockwall will not perform this test.

6. WASTEWATER SYSTEM

A. Sanitary sewer shall be placed five and half feet (5.5') behind curb.

B. Minimum public wastewater pipeline size is 8".

C. No trees shall be planted within 5' of any public utilities.

D. All lift stations shall required 12' wide concrete access road, fenced w/live screening, ground around lift station (including generator and electrical panel) shall be gravel.

E. All manhole lids shall be either 30" Pamrex or 30" Pamtight (bolt down) or approved equal.

F. All sanitary sewer manholes shall be sealed if in an area of flow (example...paving, creek, drain way, etc).

G. RAVON Epoxy Coating, or equal, shall be installed in all new manholes and in existing manholes being modified.

H. Sanitary sewer lines shall have green EMS locator pads at every manhole, cleanout, and service.

7. MISCELLANEOUS REQUIREMENTS

A. Time limit on temporary stockpiles shall be required.

B. All retaining walls to be masonry, stone, or reinforced concrete with stone face/form liner. No smooth concrete retaining walls to be installed on site.