

NOTE :
Point "R" shall be 0.30' min. above the highest top of curb elevation within Cul-De-Sac.

* A covered drain shall be provided thru a drainage easement a min. of 2' wider than the drain, in the case where a Cul-De-Sac backs into an Arterial Highway, as shown above. Plans shall include all info pertinent to the drain: exact location, size, reinforcement, easement, flow lines, curb face openings, local depressions, capacities, etc.

NOTE : (Applies to all sheets):
Minimum street flow line grade shall be 1% minimum, reverse grade vertical curves excepted.

| CURVE 1 | | | | | | | | | | | |
|---------|-----|-----|----|--------|-----------|------|--------|--------|---------------|--------|--------|
| R/W | A | B | C | D | Δ | CURB | | | PROPERTY LINE | | |
| | | | | | | R | L | T | R | L | T |
| 80' | 40' | 32' | 8' | 40.25' | 16°57'27" | 100' | 29.60' | 14.91' | 92' | 27.23' | 13.71' |
| 60' | 30' | 22' | 8' | 64.50' | 27°51'51" | 100' | 48.63' | 24.81' | 92' | 44.74' | 22.82' |
| 56' | 28' | 20' | 8' | 68.15' | 29°35'31" | 100' | 51.65' | 26.41' | 92' | 47.54' | 24.30' |
| 52' | 26' | 18' | 8' | 71.55' | 31°13'56" | 100' | 54.51' | 27.95' | 92' | 50.15' | 25.71' |

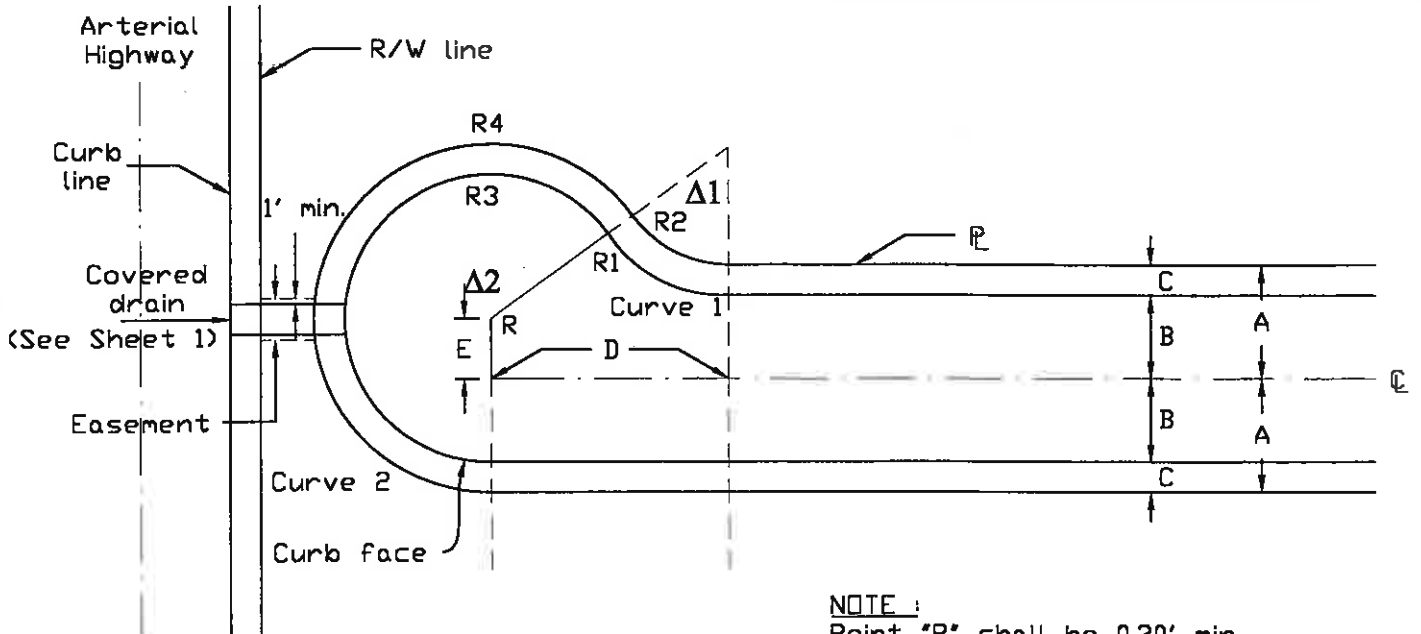
| CURVE 2 | | | | | | | | | |
|---------|-----|-----|----|--------|------------|------|---------|------------|---------|
| R/W | A | B | C | D | Δ | CURB | | PROP. LINE | |
| | | | | | | R | L | R | L |
| 80' | 40' | 32' | 8' | 40.25' | 213°54'53" | 38' | 141.87' | 46' | 171.74' |
| 60' | 30' | 22' | 8' | 64.50' | 235°43'42" | 38' | 156.34' | 46' | 189.25' |
| 56' | 28' | 20' | 8' | 68.15' | 239°11'01" | 38' | 158.63' | 46' | 192.11' |
| 52' | 26' | 18' | 8' | 71.55' | 242°27'52" | 38' | 160.81' | 46' | 194.66' |

See Sheet 2 for unsymmetrical parkway details.

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| Rev. | Approved | Date |
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| CITY OF CYPRESS DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION | STANDARD CUL-DE-SAC SYMMETRICAL PARKWAY | STD. PLAN NO. 107 |
| | | SHEET 1 OF 4 |

APP: [Signature] 12/13/99
 Director of Public Works Date



NOTE :
 Point "R" shall be 0.30' min.
 above the highest top of curb
 elevation within Cul-De-Sac.

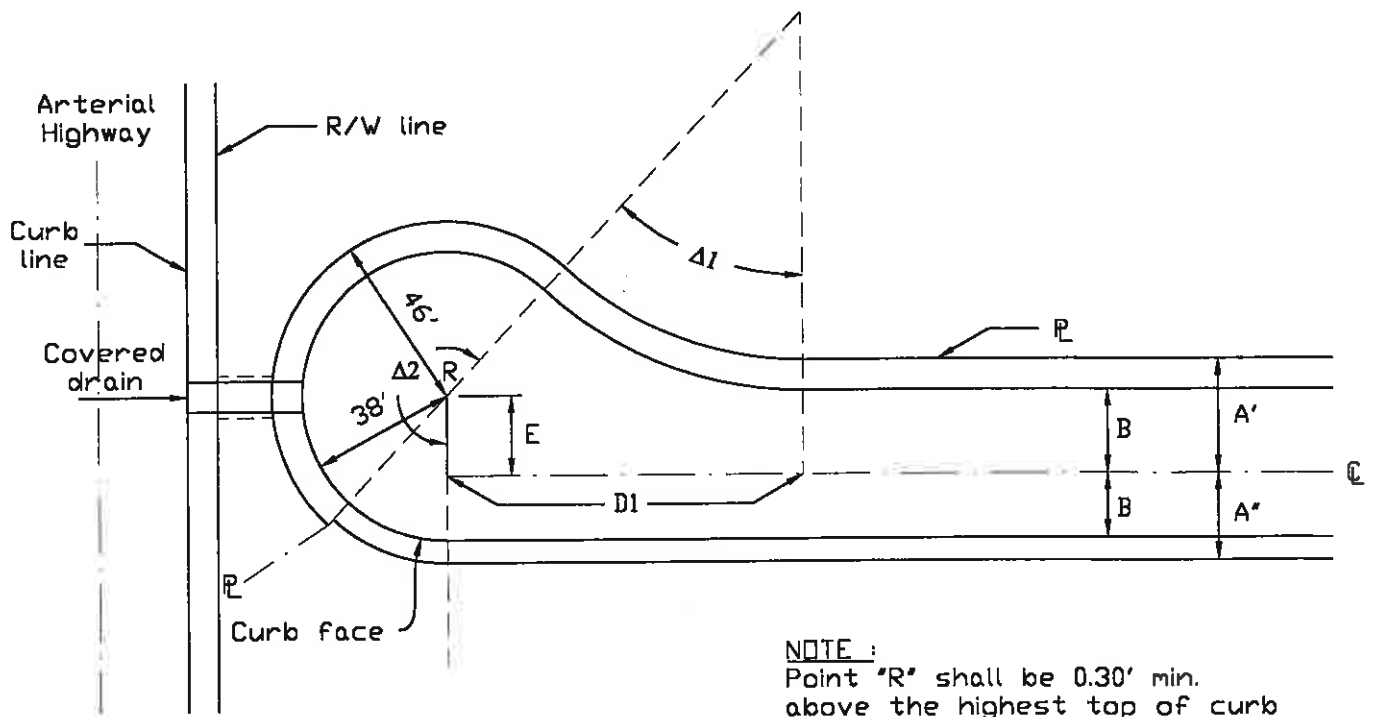
- Notes :**
1. Radial Point may be offset either right or left of centerline.
 2. See sheet 4 for unsymmetrical parkway details.

| CURVE 1 | | | | | | | | | | | | |
|---------|-----|-----|----|--------|-----|-----------|------|--------|--------|---------------|--------|--------|
| R/W | A | B | C | D | E | Δ1 | CURB | | | PROPERTY LINE | | |
| | | | | | | | R1 | L | T | R2 | L | T |
| 80' | 40' | 32' | 8' | 49.42' | 6' | 27°15'58" | 70' | 33.31' | 16.98' | 62' | 29.50' | 15.04' |
| 60' | 30' | 22' | 8' | 76.73' | 16' | 45°16'31" | 70' | 55.31' | 29.19' | 62' | 48.99' | 25.86' |
| 56' | 28' | 20' | 8' | 80.50' | 18' | 48°11'23" | 70' | 58.87' | 31.30' | 62' | 52.15' | 27.73' |
| 52' | 26' | 18' | 8' | 83.90' | 20' | 50°58'38" | 70' | 62.28' | 33.37' | 62' | 55.16' | 29.56' |

| CURVE 2 | | | | | | | | | | |
|---------|-----|-----|----|--------|-----|------------|------|---------|------------|---------|
| R/W | A | B | C | D | E | Δ2 | CURB | | PROP. LINE | |
| | | | | | | | R3 | L | R4 | L |
| 80' | 40' | 32' | 8' | 49.42' | 6' | 207°15'58" | 38' | 137.46' | 46' | 166.40' |
| 60' | 30' | 22' | 8' | 76.73' | 16' | 225°16'31" | 38' | 149.41' | 46' | 180.86' |
| 56' | 28' | 20' | 8' | 80.50' | 18' | 228°11'23" | 38' | 151.34' | 46' | 183.20' |
| 52' | 26' | 18' | 8' | 83.90' | 20' | 230°58'38" | 38' | 153.19' | 46' | 185.44' |

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| CITY OF CYPRESS DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION | STANDARD CUL-DE-SAC SYMMETRICAL PARKWAY | APP. <i>[Signature]</i> 12/13/99 Director of Public Works Date | STD. PLAN NO. 107 |
| | | SHEET 3 OF 4 | |



NOTE :
 Point "R" shall be 0.30' min.
 above the highest top of curb
 elevation within Cul-De-Sac.

* See Sheet 1 for Cul-De-Sac drainage detail.

| CURB CURVE DATA | | | | | | | | | | | | |
|-----------------|-----|-----|-----|---------|-----|-----------|------|--------|--------|------------|-----|---------|
| R/W | A' | A" | B | D1 | E | Δ1 | R1 | L1 | T1 | Δ1 | R2 | L2 |
| 48' | 25' | 23' | 17' | 99.14' | 21' | 45°55'15" | 100' | 80.15' | 42.37' | 225°55'15" | 38' | 149.84' |
| 44' | 23' | 21' | 15' | 102.86' | 23' | 48°11'23" | 100' | 84.11' | 44.72' | 228°11'23" | 38' | 151.34' |
| 40' | 22' | 18' | 14' | 104.61' | 24' | 49°17'39" | 100' | 86.03' | 45.88' | 229°17'39" | 38' | 152.07' |

| PROPERTY LINE CURVE DATA | | | | | | | | | |
|--------------------------|-----|-----|-----|---------|-----|-----------|-----|--------|--------|
| R/W | A' | A" | B | D1 | E | Δ1 | R1 | L1 | T1 |
| 48' | 25' | 23' | 17' | 99.14' | 21' | 45°55'15" | 92' | 73.74' | 38.98' |
| 44' | 23' | 21' | 15' | 102.86' | 23' | 48°11'23" | 92' | 77.38' | 41.14' |
| 40' | 22' | 18' | 14' | 104.61' | 24' | 49°17'39" | 92' | 79.15' | 42.21' |

Note : Reduction in parkway width shall occur at the property line of the last lot taking access from the cul-de-sac.

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| Rev. | Approved | Date |

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| CITY OF CYPRESS DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION | STANDARD CUL-DE-SAC UNSYMMETRICAL PARKWAY | |
| | APP. <i>[Signature]</i> 12/13/99 Director of Public Works Date | STD. PLAN NO. 107 |