

97148-130 2-9-78
JTC
MEDITERRANEAN DENTAL PLAZA
STORM DRAINAGE ON 29TH ST NORTH

LOTS 1 & 2 BLOCK 1 MED DENTAL PLAZA ALONG W/ N 1/2 &
PARKING ON 29TH ST NORTH AREA = 3.45 ACRES

AREA	CS	COD	TOWN	IS	I ₁₀₀	Q _s	Q ₁₀₀
3.45 ACRES	0.85	0.90	15	450	7.37	13.37 cfs	22.88 cfs

FROM EARLIER DRAINAGE PLAN - LOT 14 & 15 BLOCK 1 MED PLAZA &
N 1/2 & PARKING ON 29TH ST NORTH AREA = 4.77 ACRES

AREA	CS	COD	TOWN	IS	I ₁₀₀	Q _s	Q ₁₀₀
4.77	0.85	0.90	15	450	7.37	18.48 cfs	31.01 cfs

DECREASE IN A 132 ACRES
Q_s 5.11 cfs
Q₁₀₀ 8.76 cfs (25%)

STORM SEWER HEC 12 SINGLE INLET REPORT

FLOW RESULTS (cfs):
Flow from Catchment = 13.37 PONDING WIDTH (ft) = 19.36
Carryover from previous inlet = 0.00 DEPTH AT CURB (ft) = 0.60
Total flow to current inlet = 13.37 EFFICIENCY (%) = 100.00
Intercepted by current inlet = 13.37 Grate = * Total = 100.00
Bypassed by current inlet = 0.00 Slot = *

INPUT PARAMETERS:
Inlet Type = CURB IN SAG Longitudinal Slope (ft/ft) = 0.000
Gutter Width (ft) = 4.167 Pavement Cross Slope (ft/ft) = 0.031
Inlet n-value = 0.016 Normal Gutter XSlope (ft/ft) = 0.031
Downstream Inlet number = 0 Gutter depression (in) = 5.72
Curb Throat Type = Inclined
Inlet Opening Ht (in) = 6.00
Curb Opening Lgth (ft) = 5.00
Curb Weir Coeff. = 2.300
Curb Orifice Coeff. = 0.670
Incline Angle (deg) = 60.00

STORM SEWER HEC 12 SINGLE INLET REPORT

FLOW RESULTS (cfs):
Flow from Catchment = 18.48 PONDING WIDTH (ft) = 24.03
Carryover from previous inlet = 0.00 DEPTH AT CURB (ft) = 0.74
Total flow to current inlet = 18.48 EFFICIENCY (%) = 100.00
Intercepted by current inlet = 18.48 Grate = * Total = 100.00
Bypassed by current inlet = 0.00 Slot = *

INPUT PARAMETERS:
Inlet Type = CURB IN SAG Longitudinal Slope (ft/ft) = 0.000
Gutter Width (ft) = 4.167 Pavement Cross Slope (ft/ft) = 0.031
Inlet n-value = 0.016 Normal Gutter XSlope (ft/ft) = 0.031
Downstream Inlet number = 0 Gutter depression (in) = 5.72
Curb Throat Type = Inclined
Inlet Opening Ht (in) = 6.00
Curb Opening Lgth (ft) = 5.00
Curb Weir Coeff. = 2.300
Curb Orifice Coeff. = 0.670
Incline Angle (deg) = 60.00

