

PROJECT: COTTONWOOD MALL TRACT C-8

ZONE: 1 (West of Rio Grande)

EXISTING CONDITIONS

PEAK DISCHARGE

AREAS:

LAND TREATMENT	AREA (SQUARE FEET)	AREA (ACRES)	PER CENT OF TOTAL AREA
A			
B			
C	44,496	1.021	100%
D			
TOTAL			

PEAK DISCHARGE: (FROM DPM 22.2, PAGE A-9, TABLE A-9)

LAND TREATMENT	100-YEAR (CFS/ACRE)	10-YEAR (CFS/ACRE)
A		
B		
C	2.87	1.49
D		

Q100: (FROM ABOVE-SHOWN TABLES)

LAND TREATMENT	AREA (ACRES)	PEAK DISCHARGE (CFS/ACRE)	TOTAL DISCHARGE (CFS)
A			
B			
C	1.021	2.87	2.93
D			
TOTAL			2.93

DRAINAGE

RHOMBUS FORM # 1

PROJECT: COTTONWOOD MALL - TRACT C-8

ZONE: 1 (West of Rio Grande)

EXISTING CONDITIONS

VOLUME OF RUNOFF

AREAS:

LAND TREATMENT	AREA (SQUARE FEET)	AREA (ACRES)	PER CENT OF TOTAL AREA
A			
B			
C	44,496	1.021	100%
D			
TOTAL			

EXCESS PRECIPITATION: (FROM DPM 22.2, PAGE A-7, TABLE A-8)

LAND TREATMENT	100-YEAR (INCHES)	10-YEAR (INCHES)
A		
B		
C	0.99	0.44
D		

V100: (FROM ABOVE-SHOWN TABLES)

LAND TREATMENT	AREA (ACRES)	EXCESS PRECIPITATION (INCHES)	DIVIDE BY 12 = (ACRE- FEET)	MULTIPLY BY 43560 (CUBIC FEET)
A				
B				
C	1.021	0.99	.084	3669
D				
TOTAL			$V_{360(100)} =$	3669

DRAINAGE

RHOMBUS FORM # 2

PROJECT: COTTONWOOD MALL - TRACT C-8

ZONE: 1 (West of Rio Grande)

PROPOSED DEVELOPMENT CONDITIONS

PEAK DISCHARGE

AREAS:

LAND TREATMENT	AREA (SQUARE FEET)	AREA (ACRES)	PER CENT OF TOTAL AREA
A			
B	14,038	0.32	31%
C			
D	30,458	0.70	69%
TOTAL			

PEAK DISCHARGE: (FROM DPM 22.2, PAGE A-9, TABLE A-9)

LAND TREATMENT	100-YEAR (CFS/ACRE)	10-YEAR (CFS/ACRE)
A		
B	2.03	0.76
C		
D	4.37	2.89

Q100: (FROM ABOVE-SHOWN TABLES)

LAND TREATMENT	AREA (ACRES)	PEAK DISCHARGE (CFS/ACRE)	TOTAL DISCHARGE (CFS)
A			
B	0.32	2.03	0.65
C			
D	0.70	4.37	3.06
TOTAL			3.71

DRAINAGE

RHOMBUS FORM # 1

PROJECT: COTTONWOOD MALL TRACT C-8

ZONE: 1 (West of Rio Grande)

PROPOSED DEVELOPMENT CONDITIONS

VOLUME OF RUNOFF

AREAS:

LAND TREATMENT	AREA (SQUARE FEET)	AREA (ACRES)	PER CENT OF TOTAL AREA
A			
B	14,038	0.32	31 %
C			
D	30,458	0.70	69 %
TOTAL			

EXCESS PRECIPITATION: (FROM DPM 22.2, PAGE A-7, TABLE A-8)

LAND TREATMENT	100-YEAR (INCHES)	10-YEAR (INCHES)
A		
B	0.67	0.22
C		
D	1.97	1.24

V100: (FROM ABOVE-SHOWN TABLES)

LAND TREATMENT	AREA (ACRES)	EXCESS PRECIPITATION (INCHES)	DIVIDE BY 12 = (ACRE- FEET)	MULTIPLY BY 43560 (CUBIC FEET)
A				
B	0.32	0.67	0.0178	775
C				
D	0.70	1.97	0.1149	5005
TOTAL			$V_{360(100)} =$	5780

DRAINAGE

RHOMBUS FORM # 2