

"DRAINAGE REPORT SUBMITTAL CHECKLIST"

PREPARED BY _____ DATE _____

The drainage report for the subdivision as noted below has been received and found to lack the information noted. This information must be submitted before the report will be accepted for review. Please provide the required information and return the checklist with your submittal.

SUBDIVISION: _____
 LOCATION: _____
 DATE SUBMITTED: _____ TYPE OF REPORT: PRELIMINARY _____ FINAL _____
 SUBMITTED BY: FIRM _____
 CONTACT _____
 PHONE _____
 SUBMITTED DATE: (1) _____ (2) _____ (3) _____ (4) _____
 DATE APPROVED: _____

CHECKLIST

ITEM	DESCRIPTION	RECEIVED OR NOT APPLICABLE	TO BE SUBMITTED
1	Typed, Bound Report	_____	_____
2	Professional Engineers Certificate	_____	_____
3	General Location and Description		
	(a) Location Map	_____	_____
	(b) Existing Site Description	_____	_____
	(c) Description of Existing Drainage Patterns and Facilities	_____	_____
4	Drainage Basins and Sub-Basins		
	(a) Major Basin Description	_____	_____
	(b) Sub-Basin Description	_____	_____
5	Design Criteria		
	(a) Development Master Plan Discussion	_____	_____
	(b) Hydrologic Criteria Discussion	_____	_____
	(c) Hydraulic Criteria Discussion	_____	_____
6	Drainage Facility Design		
	(a) Discussion of Proposed Facilities	_____	_____
	(b) Discussion of Drainage Patterns	_____	_____
	(c) Impact on Offsite Facilities	_____	_____
	(d) Impact on Master Plan	_____	_____
7	Drainage Plan		
	(a) Topographic Contours	_____	_____
	(b) ROW and Easements	_____	_____
	(c) Delineation of Basin and Sub-Basins	_____	_____
	(d) Existing Drainage Patterns and Facilities	_____	_____
	(e) Proposed Drainage Patterns and Facilities	_____	_____
	(f) Proposed Outfall Points	_____	_____
	(g) Routing of Offsite Drainage	_____	_____
	(h) Routing from Site to Major Drainageway	_____	_____

CULVERT RATING

PROJECT: _____ LOCATION: _____ STATION: _____

CULVERT DATA

TYPE: _____ n: _____
 INLET: _____ Q_{FULL}: _____
 K_e: _____ V_{FULL}: _____

OUTLET CONTROL EQUATIONS

(1) $H_w = H + h_o - LS_o$ $d_c + D$ (whichever is greater)
 (2) For $T_w < D$; $h_o = \frac{d_c + D}{2}$ or T_w
 $T_w > D$; $h_o = T_w$
 (3) For Box Culvert: $d_c = 0.315(Q/B)^{2/3} \leq D$

Q	INLET CONTROL		OUTLET CONTROL				CONT. H _w	CONTROL	ELEV.		
	H _w /D	H _w	H	T _w	T _w < D					T _w > D	
					d _c	$\frac{d_c + D}{2} = h_o$	h _o	H _w			
1	2	3	4	5	6	7	8	9	10	11	12

STORM DRAINAGE DESIGN AND TECHNICAL CRITERIA

STANDARD FORM F - 4. SEQUENTIAL DETENTION CALCULATION

SUBDIVISION _____
CALCULATED BY _____ DATE _____

FACILITY NUMBER (1)	SINGULAR DETENTION					SEQUENTIAL DETENTION			
	BASIN AREA (A) Ac (2)	Q ₁ CFS (3)	IMP % (4)	K FI (5)	Q ₁ /A CFS/Ac (6)	ΣQ CFS (7)	Z Ac (8)	S _m Ac-FI (9)	Q _m CFS (10)
	10-YEAR								

100-YEAR									

$\Sigma Q = Q_1 + \text{Previous } Q_m$
 $Z = \Sigma Q / (Q_1/A)$
 $S_m = KZ$

Final Drainage Study

for

The plans are reviewed for concept only, and the review does not imply responsibility by the reviewing department, the town engineer, city engineer, or the town of Bennett for accuracy and correctness of calculations. The review does not imply that quantities of items indicated on the plan(s) are the final quantities required. The review shall not be construed for any reason as acceptance of final responsibility by the town or reviewing departments for additional items and additional quantities of items shown that may be required during the construction phase.

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH
THE TOWN OF BENNETT
STANDARD SPECIFICATIONS

Approved for one year from this date:

Town Engineer

Date

Or:

Designated Town Representative

Date

OWNER OR REPRESENTATIVE

BY:

_____ hereby certifies that
 the drainage facilities for _____
 _____, shall be constructed according to the design presented
 in this report. I understand that the Town of Bennett does not
 and will not assume liability for the drainage facilities
 designed and/or certified by my engineer and that the Town of
 Bennett reviews drainage plans pursuant to Colorado Revised
 Statutes, Title 30, Article 28, but cannot, on behalf of
 _____, guarantee that final drainage
 design review will absolve _____
 and or their successors and /or assigns of future liability for
 improper design, I further understand that approval of the Final
 Plat does not imply approval of my engineer's drainage design.

 Business Name (if applicable)

 Owner

 Date: