

## Alternative Plans for Storm Sewer Sizes (No Detention)

### SOUTH ENGLEWOOD BASIN

Pipe	Capital Project Segment	Ex. Pipe Diameter [ft]	Alternative 1: 5-yr Design Dia [ft]	Alternative 2: 10-yr Design Dia [ft]	Alternative 3: 25-yr Design Dia [ft]	Alternative 4: 100-yr Design Dia [ft]
314	S3	3.5	5	5.5	6.5	7.5
313	S3	4	5	5.5	6.5	7.5
312	S3	4.5	5.5	6	7.5	1-11x6
311	S3	4	5.5	6	7.5	1-11x6
310	S3	4.5	5.5	6	7.5	1-11x6
318	S4	2.8	2.8	3	3.5	4
317	S4	3	3.5	3.5	4	4.5
316	S4	3.5	3.5	3.5	4	4.5
309	S3	4.5	5.5	6	7.5	1-11x6
308	S3	4.5	5.5	6	7.5	1-11x6
307	S3	5	5.5	6	7.5	1-11x6
306	S3	2.5	2.5	3	3.5	4
305	S3	5	6	6.5	7.5	1-11x6
288	S3	2.5	2.5	2.5	3	3
287	S3	4	4	4	4	4
286	S3	6.3	7	7.5	1-12x6	2-10x6
284	S3	1.8	1.8	1.8	2	2.5
282	S2	5	5	5.5	7	8
281	S2	5	6.5	7	1-11x6	2-9x6
280	S2	6.3	6.5	7	1-11x6	2-9x6
279	S2	7	7*	1-9x6	1-12x7	2-11x6
278	S2	2.5	2.5	2.5	2.5	3
276	S2	7	7*	1-9x6	1-12x7	2-11x6
277	S2	2.8	3	3	3	4.5
275	S2	7	7*	1-9x6	1-12x7	2-11x6

\*These proposed RCP storm sewers replace existing CMP storm sewers that have a higher Manning's n value. Though the proposed diameter is either the same or smaller than the existing pipe for these segments, the existing pipe should be replaced.

### SOUTH-CENTRAL ENGLEWOOD BASIN

Pipe	Capital Project Segment	Ex. Pipe Diameter [ft]	Alternative 1: 5-yr Design Dia [ft]	Alternative 2: 10-yr Design Dia [ft]	Alternative 3: 25-yr Design Dia [ft]	Alternative 4: 100-yr Design Dia [ft]
300	SC2	1.3	2.5	3	3.5	4
299	SC2	2.5	3	3.5	4	5
298	SC2	3	3.5	4	4.5	5.5
297	SC2	3.5	3.5	4	4.5	5.5
296	SC2	4	4	4	4.5	5.5
295	SC2	3.5	4	4	4.5	5.5
294	SC2	4	4	4	5	5.5
293	SC1	1.8	3	3.5	4	4.5
292	SC1	4	4	4	5	5.5
291	SC1	4.5	4.5	5	6	7
290	SC1	5	5	5.5	7	8
274	SC1	5	5.5	6	7	1-9x6
273	SC1	6.3	6.3	6.3	7	1-9x6
272	S1	6.5	1-12x6	1-12x7	2-12x7	3-10x7
271	S1	7.7	1-12x6	1-12x7	2-12x7	3-10x7
270	S1	7.7	1-12x7	2-9x7	3-10x7	4-11x7

## Alternative Plans for Storm Sewer Sizes (No Detention)

### CENTRAL ENGLEWOOD BASIN

Pipe	Capital Project Segment	Ex. Pipe Diameter [ft]	Alternative 1: 5-yr Design Dia [ft]	Alternative 2: 10-yr Design Dia [ft]	Alternative 3: 25-yr Design Dia [ft]	Alternative 4: 100-yr Design Dia [ft]
348	C1	1.5	4	4	4.5	5
347	C1	2	4	4	4.5	5.5
346	C1	2.5	4	4.5	5	6
345	C1	3	4.5	5	5.5	6.5
344	C1	3	4.5	5	6	6.5
343	C1	3.5	4.5	5	6	6.5
350	C1	4	6	6.5	7.5	2-7x5
342	C1	4	6	6.5	7.5	2-7x5
341	C1	5.5	6	6.5	7.5	2-7x5
349	C1	6	6	6	6	6
340	C1	8	8	8	1-10x6	2-8x6

### NORTH ENGLEWOOD BASIN

Pipe	Capital Project Segment	Ex. Pipe Diameter [ft]	Alternative 1: 5-yr Design Dia [ft]	Alternative 2: 10-yr Design Dia [ft]	Alternative 3: 25-yr Design Dia [ft]	Alternative 4: 100-yr Design Dia [ft]
423	N3	2.5	3	3.5	4	4.5
422	N3	3	3.5	4	4.5	5
420	N3	3.5	3.5	4	4.5	5
419	N3	3.5	3.5	4	4.5	5.5
421	N3	1.25	2	2	4	5
412	N3	2	2	2	4	5
410-1	N3	4.5	4.5	4.5	4.5	6
410	N3	4.5	4.5	4.5	4.5	6
411	N2	2.5	2.5	2.5	3	3.5
407-1	N2	5	5	5	5.5	7
407	N2	5	5	5	5.5	7
406-1	N2	5	5	5	5.5	7
406	N2	5	5	5	5.5	7
405-1	N2	5	5.5	5.5	6.5	8
405	N2	5	5.5	6	7	8
418	N5	2	2.5	2.5	3	3.5
417	N5	2.25	2.5	2.5	3	3.5
416	N5	2.5	2.5	2.5	3	3.5
415	N5	3.5	3.5	3.5	3.5	3.5
414	N4	4	4	4	4.5	5
413	N4	4.5	4.5	4.5	5	6
402	N4	5.5	5.5	5.5	5.5	6
401	N1	5.5	5.5	6	7	8
400	N1	8	8	8	8	8

### YALE AVENUE BASIN

Pipe	Capital Project Segment	Ex. Pipe Diameter [ft]	Alternative 1: 5-yr Design Dia [ft]	Alternative 2: 10-yr Design Dia [ft]	Alternative 3: 25-yr Design Dia [ft]	Alternative 4: 100-yr Design Dia [ft]
433	Y1	2.5	2.5	2.5	3	4.5
432	Y1	2.75	3	3.5	4	5.5
431	Y1	2.75	3.5	3.5	4.5	6
430	Y1	2.75	4	4.5	5.5	6.5

## **Alternative Plans for Storm Sewer Sizes (With Detention)**

### **SOUTH ENGLEWOOD BASIN**

Pipe	Capital Project Segment	Ex. Pipe Diameter [ft]	Alternative 1: 5-yr Design Dia [ft]	Alternative 2: 10-yr Design Dia [ft]	Alternative 3: 25-yr Design Dia [ft]	Alternative 4: 100-yr Design Dia [ft]
314	S3	3.5	4	4.5	6	7.5
313	S3	4	4.5	5	6.5	7.5
312	S3	4.5	5	6	7.5	1-10x6
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288	S3	2.5	2.5	2.5	2.5	2.5
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284	S3	1.8	1.8	1.8	1.8	1.8
282	S2	5	5	5	6	7.5
281	S2	5	5*	6	8	1-11x7
280	S2	6.3	6.3	6*	8	1-11x7
279	S2	7	7	6.5*	1-11x6	2-8x7
278	S2	2.5	2.5	2.5	2.5	2.5*
276	S2	7	7	6.5*	1-11x6	2-8x7
277	S2	2.8	2.5*	3	3	3.5
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294	SC2	4	4	4	5	5.5
293	SC1	1.8	1.8	1.8	2.5	3.5
292	SC1	4	4	4	5	5.5
291	SC1	4.5	4.5	4.5	6	7
290	SC1	5	5	5.5	7	8
274	SC1	5	5.5	5.5	7	8
273	SC1	6.3	6.3	6.3	7	8
272	S1	6.5	7.5	8	2-10x6	2-12x7
271	S1	7.7	7.7	8	2-10x6	2-12x7
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345	C1	3	4.5	5	5.5	6.5
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341	C1	5.5	6	6.5	7.5	2-7x5
349	C1	6	6	6	6	6
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410-1	N3	4.5	4.5	4.5	4.5	5
410	N3	4.5	4.5	4.5	4.5	5
411	N2	2.5	2.5	2.5	3	3.5
407-1	N2	5	5	5	5.5	6.5
407	N2	5	5	5	5.5	6.5
406-1	N2	5	5	5	5.5	6.5
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