Item E.1 9-24-08

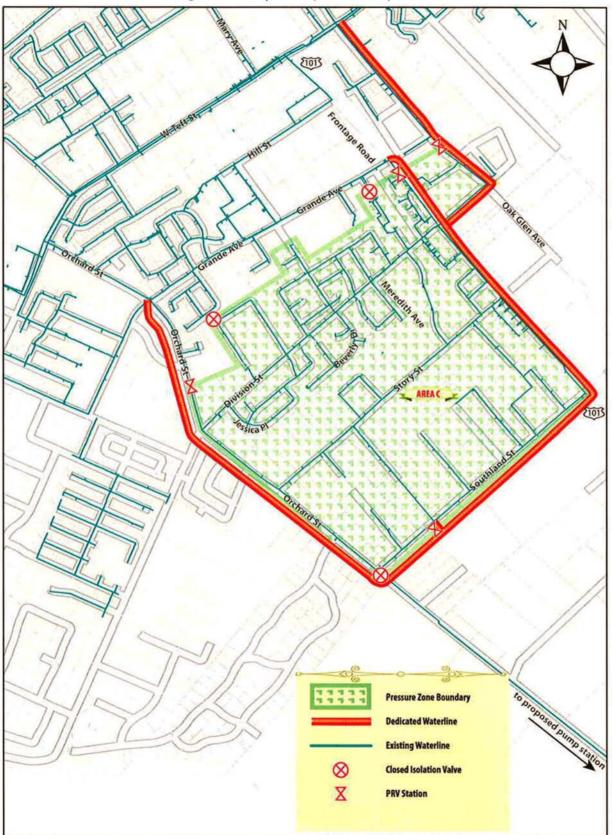
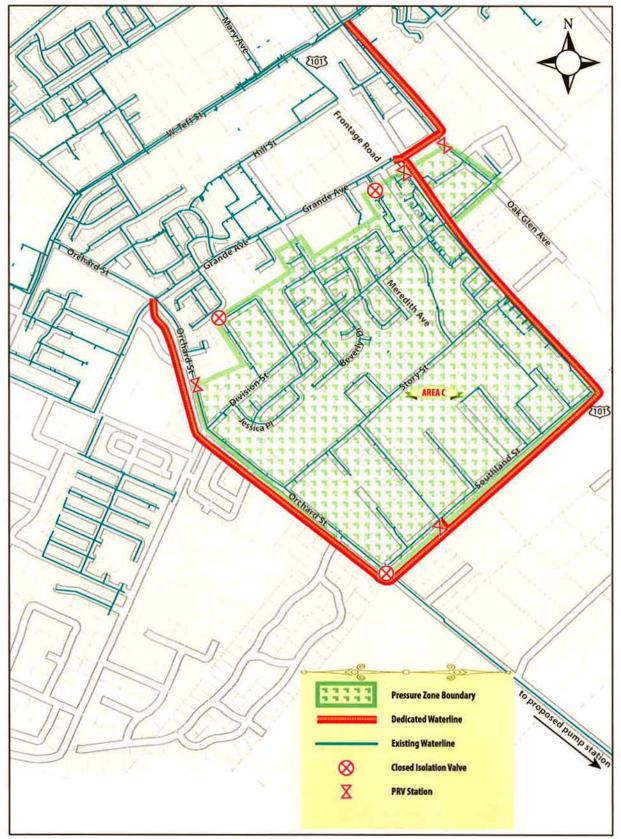


Figure 6: NCSD System Improvements Option 5a

 $\sigma_{i, q}$ 

Figure 7: NCSD System Improvements Option 5b



### Table 4

## Nipomo Community Services District

WATERLINE INTERTIE PROJECT NCSD Water Distribution System Improvements OPINION OF PROBABLE CONSTRUCTION COST

Supplemental Inflow Rate = 2,000 gpm Item Description Quantity Unit Unit Price Amount Option 1. As recommended in Preliminary Engineering Memorandum (Boyle, May 2008) \$200 1 Pressure regulators on individual services in Area A 200 EA \$40,000 Southland St Incremental Upgrade 10" to 12" 3900 LF 2 \$40 \$156,000 Orchard Rd 12" Upgrade (Southland to Division) 3200 LF \$145 \$464,000 3 4 Traffic Control for Orchard Rd 3200 LF \$7 \$22,400 YD2 5 AC Pavement Overlay on Orchard Rd (assume 12-ft lane) 4267 \$36 \$153,600 **Option 1 Subtotal** \$836,000 Master Planned Improvements \* Southland St 10" Upgrade (Frontage to Orchard) \* 3900 \$160 \$624,000 7 LF Frontage Rd 12" Upgrade (Southland to Tefft) \* LF \$200 8 6470 \$1,294,000 Master planned Improvements Subtotal \$1,918,000 **Option 1 Adjusted Subtotal** \$2,754,000 Contingency 30% \$826,200 **Option 1 Total** \$3,580,200

1	Parallel Orchard Rd waterline 12" (Southland to Grande)	5200	LF	\$145	\$754,000
2	Traffic Control	5200	LF	\$7	\$36,400
3	AC Pavement Overlay (assume 12-ft lane)	6933	YD <sup>2</sup>	\$36	\$249,600
4	Parallel Southland St waterline 12"	3900	LF	\$145	\$565,500
5	Traffic Control	3900	LF	\$7	\$27,300
6	AC Pavement Overlay (assume 12-ft lane)	5200	YD <sup>2</sup>	\$36	\$187,200
7	Parallel Frontage Rd waterline 12" (Southland to Tefft)	6470	LF	\$145	\$938,150
8	Traffic Control	6470	LF	\$7	\$45,290
9	AC Pavement Overlay (assume 12-ft lane)	8627	YD <sup>2</sup>	\$36	\$310,560
10	Pressure Reducing Valve Station to isolate zone	4	EA	\$18,000	\$72,000
11	Isolation Valves to isolate zone	3	EA	\$4,000	\$12,000
_	Option 4 Subtotal				\$3,198,000
	Contingency	30%			\$959,400

**Option 4 Total** 

\$4,157,400

Notes:

Costs not included: Engineering and administration, mobililzation, pipeline to loop dead-end waterlines

Division Street upgrade (from Preliminary Engineering Memorandum) removed from Option 1, as determined already complete \* The Master Planned project costs presented in this table have been modified from the Master Plan and the Preliminary Engineering Memorandum to reflect Boyle's opinion of costs and to be consistent with the unit costs used in this comparative analysis. These unit costs include traffic control and pavement overlay for these Master Plan projects, whereas these items are separate in the other opinions.

### Table 4

# **Nipomo Community Services District**

WATERLINE INTERTIE PROJECT

NCSD Water Distribution System Improvements OPINION OF PROBABLE CONSTRUCTION COST

Itom	Supplemental Inflow Rate Description	Quantity	Unit	Unit Price	Amount	
				The second second second second	A CARDON RECEIPTION	
1	n 5a. PRV Zone with Dedicated Lines (limited Frontage I Parallel Orchard Rd waterline 12" (Southland to Grande)	5200	LF	\$145	\$754.000	
2	Traffic Control	5200	LF	\$145	\$754,000	
-			YD <sup>2</sup>			
3	AC Pavement Overlay (assume 12-ft lane)	6933 3900		\$36	\$249,600	
5	Parallel Southland St waterline 12" Traffic Control	3900	LF	\$145	\$565,50	
		and a second second second	the second s	\$7	\$27,30	
6	AC Pavement Overlay (assume 12-ft lane)	5200	YD <sup>2</sup>	\$36	\$187,20	
7	Parallel Frontage Rd waterline 12" (Southland to Grande)	4400	LF	\$145	\$638,000	
8	Traffic Control	4400	LF	\$7	\$30,800	
9	AC Pavement Overlay (assume 12-ft lane)	5867	YD <sup>2</sup>	\$36	\$211,200	
10	Highway crossed with jacked casing & 12" carrier pipe	220	LF	\$600	\$132,000	
11	Parallel Amado (cross Hwy 101) waterline 12"	680	LF	\$145	\$98,600	
12	Traffic Control	680	LF	\$7	\$4,760	
13	AC Pavement Overlay (assume 12-ft lane)	907	YD <sup>2</sup>	\$36	\$32,640	
14	Parallel S. Oakglen Ave waterline 12"	3200	LF	\$145	\$464,000	
15	Traffic Control	3200	LF	\$7	\$22,400	
16	AC Pavement Overlay (assume 12-ft lane)	4267	YD <sup>2</sup>	\$36	\$153,600	
17	Pressure Reducing Valve Station to isolate zone	4	EA	\$18,000	\$72,000	
18	Isolation Valves to isolate zone	3	EA	\$4,000	\$12,000	
	Option 5a Subtotal \$3,					
	Contingency	30%			\$1,107,600	
	Option 5a Tota	1			\$4,799,600	
Optio	n 5b. PRV Zone with Dedicated Lines (limited Frontage	Rd. Improve	ements	cross Hwy 10	1 @ Darby)	
1	Parallel Orchard Rd waterline 12" (Southland to Grande)	5200	LF	\$145	\$754,000	
2	Traffic Control	5200	LF	\$7	\$36,40	
3	AC Pavement Overlay (assume 12-ft lane)	6933	YD <sup>2</sup>	\$36	\$249,60	
4	Parallel Southland St waterline 12"	3900	LF	\$145	\$565,50	
5	Traffic Control	3900	LF	\$7	\$27,30	
6	AC Pavement Overlay (assume 12-ft lane)	5200	YD <sup>2</sup>	\$36	\$187,20	
7	Parallel Frontage Rd waterline 12" (Southland to Grande)	4400	LF	\$145	\$638,00	
- 8	Traffic Control	4400	LF	\$145	\$30,80	
		5867	YD <sup>2</sup>			
9	AC Pavement Overlay (assume 12-ft lane)	5867	YD-	\$36	\$211,200	

220

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667

2100

2100

2800

43

30%

LF

LF

LF

YDZ

LF

LF

YD<sup>2</sup>

EA

EA

\$600

\$145

\$7

\$36

\$7

\$36

\$18,000

\$4,000

\$145

\$132,000

\$72,500

\$3,500

\$24,000

\$14,700

\$72,000

\$12,000

\$3,436,000

\$1,030,800

\$4,466,800

\$100,800

\$304,500

#### Notes:

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17

18

Costs not included: Engineering and administration, mobililization, pipeline to loop dead-end waterlines

10 Highway crossed with jacked casing & 12" carrier pipe

11 Parallel Darby (cross Hwy 101) waterline 12"

12 Traffic Control 13 AC Pavement Overlay (assume 12-ft lane)

AC Pavement Overlay (assume 12-ft lane)

Pressure Reducing Valve Station to isolate zone

14 Parallel S. Oakglen Ave waterline 12"

Isolation Valves to isolate zone

15 Traffic Control

Division Street upgrade (from Preliminary Engineering Memorandum) removed from Option 1, as determined already complete

\* The Master Planned project costs presented in this table have been modified from the Master Plan and the Preliminary Engineering Memorandum to reflect Boyle's opinion of costs and to be consistent with the unit costs used in this comparative analysis. These unit costs include traffic control and pavement overlay for these Master Plan projects, whereas these items are separate in the other opinions.

**Option 5b Subtotal** 

Contingency Option 5b Total