

TABLE 5
US 93 — US 89 TO SANTA MARIA RIVER
RECOMMENDED DRAINAGE STRUCTURE SUMMARY
EXISTING RUNOFF CONDITIONS

BASIN AND CULVERT NUMBER	NEW US 93 STATION (feet)	MILEPOST OF ORIGINAL CULVERT	FLOWS (See note 1)		Existing	Existing Hydraulics Adequate (yes/no)	Recommended	RECOMMENDATIONS
			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
99	na	193.61	10	15	24	yes	24	flush pipes, reset catch basin grates
100	108+07	193.48	10	15	24	yes	24	NEW CMP SB
101	n/a	193.38	10	15	24	yes	n/a	reset catch basin grates
102A	119+12	193.31	407	486	(2) 6x7	yes	(2) 6x7	extend LT, deflection
103A	140+51	192.91	320	384	12x8	yes	12x8	extend LT
104A	143+54	192.85	187	230	24	yes	24	extend LT
105A	153+07	192.68	37	44	24	yes	24	extend LT
106A	161+15	192.52	707	834	(3) 10x7	yes	(3) 10x7	extend LT
107A	168+96	192.37	10	15	24	yes	24	NEW CMP SB
108A	179+47	192.18	10	15	29x18	yes	24	extend LT
109A	204+43	191.70	10	15	24	yes	24	extend LT, deflection
110A	213+17	191.54	10	15	42	yes	42	extend LT
111A	218+98	191.43	10	15	24	yes	24	extend LT, deflection
112A	222+43	191.36	171	208	(2) 6x7	yes	(2) 6x7	extend LT, deflection
113A	236+68	191.10	66	82	24	yes	(2) 30	NEW CMP SB
114A	239+03	191.05	see Culv 113	0	(2) 36	yes	(2) 36	extend LT
115A	249+02	190.86	73	92	(2) 36	yes	(2) 36	extend LT
116A	259+53	190.66	84	104	(2) 43x27	<<NO>>	(2) 36	extend LT w/ larger pipe
117A	262+09	190.61	see Culv 116	0	(2) 50x31	yes	(2) 50x31	extend LT, deflection
118A	266+20	190.53	69	88	(2) 42	yes	(2) 42	extend LT
119A	270+57	190.45	573	628	(4) 10x6	yes	(4) 10x6	extend LT, deflection
120A	283+96	190.19	371	456	(2) 6x4	<<NO>>	(3) 6x4	NEW CBC SB
121A	287+37	190.13	91	115	(3) 43x27	<<NO>>	(3) 36	NEW CMP SB
122A	296+37	189.96	38	47	(2) 36x22	<<NO>>	(2) 30	NEW CMP SB
123A	305+52	189.79	110	139	(2) 42	yes	(2) 42	extend LT, deflection
124A	316+45	189.58	117	143	(2) 6x6	yes	(2) 6x6	NEW CBC SB
125A	322+40	189.46	20	24	24	yes	24	NEW CMP SB
126A	326+22	189.40	206	251	(3) 10x8	yes	(3) 10x8	NEW CBC SB
127A	344+41	189.05	73	93	24	<<NO>>	(2) 30	NEW CMP SB

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			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
128A	352+51	188.90	68	86	29x18	<<NO>>	(2) 30	NEW CMP SB
129A	358+48	188.79	13	15	24	yes	24	extend LT
130A	363+83	188.69	728	935	(2) 6x7	yes	(2) 6x7	NEW CBC SB
131A	374+55	188.48	33	41	(2) 43x27	yes	(2) 36	NEW CMP SB
132A	383+48	188.31	135	172	10x8	yes	10x8	NEW CBC SB
133A	389+86	188.19	176	224	(2) 36	yes	(2) 36	NEW CMP SB
134A	402+01	187.96	190	242	(2) 6x5	yes	(2) 6x5	NEW CBC SB
135A	408+38	187.84	15	18	29x18	<<NO>>	30	NEW CMP SB
136A	414+33	187.72	198	251	6x7	yes	6x7	NEW CBC SB
137A	430+89	187.42	292	358	(3) 10x6	yes	(3) 10x6	NEW CBC SB
138A	439+11	187.25	120	153	6x6	yes	6x6	NEW CBC SB
139A	444+73	187.15	119	146	(2) 6x5	yes	(2) 6x5	NEW CBC SB
140A	460+98	186.85	727	881	(4) 10x3	yes	(4) 10x4	NEW CBC SB
141A	476+16	186.56	210	245	10x8	yes	10x8	NEW CBC SB
142A	489+89	186.30	148	176	(2) 10x5	yes	(2) 10x5	NEW CBC SB
143A	496+48	186.21	104	128	43x27	yes	(2) 42	NEW CMP SB
144A	504+32	186.03	590	682	(2) 10x5	yes	(2) 10x5	NEW CBC SB
145A	523+14	185.68	see Culv 146	0	24	yes	24	extend LT, deflection
146A	526+28	185.61	223	276	(2) 8x4	yes	(2) 8x4	NEW CBC SB
147A	532+01	185.49	337	385	(2) 10x8	yes	(2) 10x8	NEW CBC SB
148A	547+63	185.21	38	46	(2) 43x27	<<NO>>	(2) 30	NEW CMP SB
149A	551+07	185.14	166	205	(2) 6x4	yes	(2) 6x4	NEW CBC SB & INLET DIKE
150A	554+48	185.08	48	59	(2) 43x27	yes	(2) 36	NEW CMP SB
151A	561+60	184.93	4816	5580	(5) 10x8	<<NO>>	(6) 10x8	NEW CBC SB
152A	571+13	184.77	see Culv 153	0	(3) 10x8	yes	(3) 10x8	NEW CBC SB
153A	573+67	184.71	3319	4214	(4) 10x8	yes	(4) 10x8	NEW CBC SB
154A	592+24	184.36	19	23	36	yes	36	NEW CMP SB
155A	596+59	184.28	60	73	(2) 30	yes	(2) 30	NEW CMP SB
156A	600+08	184.20	see Culv 157	0	24	yes	24	NEW CMP SB

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BASIN AND CULVERT NUMBER	NEW US 93 STATION (feet)	MILEPOST OF ORIGINAL CULVERT	FLOWS (See note 1)		Existing	Existing Hydraulics Adequate (yes/no)	Recommended	RECOMMENDATIONS
			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
157A	601+83	184.17	749	921	(3) 10x8	yes	(3) 10x8	NEW CBC SB
158A	610+87	184.01	237	294	(4) 10x4	yes	(4) 10x4	NEW CBC SB
159A	617+51	183.88	12	14	24	yes	24	extend LT
160A	620+96	183.82	142	177	(2) 6x4	yes	(2) 6x4	NEW CBC SB
161A	624+97	183.74	127	158	(2) 6x4	yes	(2) 6x4	NEW CBC SB
162A	633+62	183.58	96	119	(2) 6x4	yes	(2) 6x4	NEW CBC SB
163A	637+39	183.51	82	100	(3) 10x4	yes	(3) 10x4	NEW CBC SB
164A	642+10	183.41	992	1282	(2) 6x4	yes	(2) 6x4	NEW CBC SB
165A	655+00	183.16	4036	5100	(4) 10x4	<<NO>>	(6) 10x7	NEW CONTINUOUS CBC (SB & NB)
166A	659+83	183.08	10	15	24	yes	24	extend CMP LT
166B	20+70 (ramp)	183.08	10	15	n/a	n/a	24	NEW CMP, NB OFF RAMP
167A	472+31	182.88	10	15	(2) 30	yes	(2) 30	extend CMP LT; Sta Eqtn 668+84 bk = 470+16 ahd
168A	479+95	182.72	54	66	(2) 72x44	yes	(2) 42	NEW CMP SB
169A	485+29	182.62	312	367	(2) 8x4	yes	(2) 8x4	extend LT, deflection
169B	17+05 (ramp)	182.62	312	367	n/a	n/a	(2) 8x4	NEW CBC, SB OFF RAMP
170A	502+06	182.31	60	73	36	<<NO>>	42	NEW CMP SB
171A	507+19	182.20	1020	1232	6x5	<<NO>>	(2) 10x5	NEW CBC SB
172A	514+62	182.06	50	73	(2) 10x5	yes	(2) 10x5	NEW CBC SB
173A	522+48	181.92	1060	1298	(2) 10x3	<<NO>>	(2) 10x5	NEW CBC SB & INLET DIKE
174A	534+47	181.70	1455	1772	(4) 10x3	<<NO>>	(3) 10x5	NEW CBC SB & INLET DIKE
175A	542+55	181.54	194	241	(2) 10x5	yes	(2) 10x5	NEW CBC SB
176A	549+91	181.40	161	205	(2) 8x4	yes	(2) 8x4	NEW CBC SB
177A	551+80	181.36	110	134	10x4	yes	10x4	NEW CBC SB
178A	563+75	181.13	224	270	10x4	yes	10x4	NEW CBC SB
179A	571+95	180.98	108	133	(2) 30	<<NO>>	(3) 30	NEW CMP SB
180A	577+36	180.88	69	85	36	<<NO>>	(2) 36	NEW CMP SB
181A	580+78	180.81	108	134	36	<<NO>>	(2) 36	NEW CMP SB
182A	585+90	180.71	81	99	(2) 24	<<NO>>	(3) 30	NEW CMP SB
183A	592+82	180.58	100	124	(2) 30	<<NO>>	(3) 30	NEW CMP SB

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			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
184A	599+91	180.45	128	154	6x3	<<NO>>	6x4	NEW CBC SB
185A	602+01	180.41	See Culvert 184	0	8x3	<<NO>>	8x4	NEW CBC SB
186A	609+86	180.26	217	274	6x3	<<NO>>	6x4	NEW CBC SB
187A	619+42	180.09	251	306	(5) 10x4	yes	(5) 10x4	NEW CBC SB & INLET DIKE
188A	630+98	179.86	425	514	(2) 9x5	yes	(2) 10x5	NEW CBC SB
189A	640+85	179.68	59	72	36	<<NO>>	42	NEW CMP SB
190A	650+00	179.51	154	185	(3) 10x4	yes	(3) 10x4	NEW CBC SB & INLET DIKE
191A	662+06	179.28	See Culvert 192	0	36	<<NO>>	(2) 36	NEW CMP SB
192A	664+22	179.24	1356	2007	10x4	<<NO>>	(4) 10x4	NEW CBC SB & INLET DIKE
193A	667+49	179.17	See Culvert 192	0	24	<<NO>>	30	NEW CMP SB
194A	671+37	179.10	See Culvert 192	0	24	yes	24	NEW CMP SB
195A	675+49	179.02	209	259	(2) 6x3	yes	(2) 6x3	NEW CBC SB & INLET DIKE
196A	684+45	178.85	78	95	(2) 6x3	yes	(2) 6x3	NEW CBC SB
197A	692+30	178.71	599	713	(5) 10x5	yes	(5) 10x5	NEW CBC SB
198A	714+49	178.29	4286	4878	(5) 10x4	<<NO>>	110' x 44'	NEW CSS BRIDGES NB & SB, & INLET DIKE
199A	728+89	178.01	584	658	(2) 6x7	yes	(2) 6x7	extend CBC LT
200A	757+09	177.46	566	640	(2) 6x7	yes	(2) 6x7	NEW CBC SB
201A	768+32	177.24	41	49	(2) 30	yes	(2) 30	NEW CMP SB
202A	772+54	177.17	42	50	36	<<NO>>	(2) 36	NEW CMP SB
203	n/a	177.09	19	23	24	<<NO>>	DITCH	UNLINED MEDIAN V-DITCH TO CULV 202A
204A	780+05	177.02	2058	2357	(2) 9x3	<<NO>>	(4) 10x6	NEW CBC SB
205A	785+33	176.91	127	156	(2) 9x3	yes	(2) 8x4	NEW CBC SB
206A	808+44	176.51	133	162	(2) 36	yes	(2) 36	NEW CMP SB
207A	817+61	176.32	267	316	(2) 9x3	<<NO>>	(2) 8x4	NEW CBC SB
208A	837+66	175.95	23	27	24	<<NO>>	30	NEW CMP SB
209A	843+92	175.83	107	131	10x8	yes	10x8	NEW CBC SB
210A	850+92	175.71	16	19	30	yes	30	NEW CMP SB
211	n/a	175.60	5	6	24	yes	n/a	no culvert SB
212	n/a	175.56	3	4	24	yes	n/a	no culvert SB

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			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
213	n/a	175.50	5	5	24	yes	n/a	no culvert SB
214	n/a	175.42	11	13	30	yes	n/a	no culvert SB
215A	896+45	175.12	230	278	n/a	yes	8x4	NEW CBC SB
DATE CREEK BRIDGE 2	927+69	174.20	28028	33172	3-span x 70'	<<NO>>	3-span	NEW BRIDGE SB
216A	942+07	173.97	29	35	24	yes	30	NEW CMP SB
217	n/a	173.85	12	15	30	yes	n/a	NO CULV SB, COMBINES DNSTM W/ CULV 218A
218A	950+70	173.76	241	291	(2) 6x7	yes	(2) 6x7	NEW CBC SB
218B	963+37	173.65	57	72	n/a	yes	42	NEW CMP SB
220	n/a	173.50	5	6	24	yes	n/a	NO CULV SB, COMBINES DNSTM W/ CULV 219
221	n/a	173.46	4	5	24	yes	n/a	NO CULV SB, COMBINES DNSTM W/ CULV 219
222	n/a	173.43	5	6	24	yes	n/a	NO CULV SB, COMBINES DNSTM W/ CULV 219
223	976+82	173.35	156	193	6x7	yes	6x7	extend LT (NB only)
224A	n/a	172.75	20	24	24	yes	n/a	no culvert NB
225A	1017+93	172.51	8	10	n/a	n/a	24	NEW CMP NB
225B	1022+67	172.51	12	15	24	yes	30	NEW CMP NB
226	n/a	172.44	See Culvert 227A		24	yes	RIPRAP CHL	10' BOTTOM WIDTH RIPRAP CHANNEL TO 227A
227A	1023+55	172.34	137	167	(2) 6x5	yes	(2) 6x5	NEW CBC NB
228A	1033+32	172.27	19	22	n/a	n/a	30	NEW CMP NB
228B	1037+84	172.27	10	13	24	<<NO>>	24	NEW CMP NB
229A	1041+76	172.17	8	9	24	yes	24	NEW CMP NB
230A	1045+53	172.10	44	62	36	<<NO>>	42	NEW CMP NB
231A	1051+35	172.02	8	10	24	yes	24	NEW CMP NB
232A	1055+06	171.91	191	234	6x4	yes	6x4	NEW CBC NB
233A	1064+67	171.68	85	97	42	yes	42	NEW CMP NB
234A	1077+77	171.46	256	313	10x8	yes	10x8	NEW CBC NB
235A	1082+35	171.40	52	67	(2) 36	yes	(2) 36	NEW CMP NB
236A	1091+55	171.21	22	26	30	yes	30	NEW CMP NB
237A	1097+29	171.10	13	17	30	yes	30	NEW CMP NB

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			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
238A	1105+96	170.94	246	302	12x8	yes	12x8	NEW CBC NB
239	n/a	170.85	8	10	24	yes	DITCH	ROADSIDE RT, NB TO CULV 240A
240A	1114+02	170.77	21	27	30	yes	30	NEW CMP NB (TAKES ~ 4 CFS FROM 239)
241	1118+55	170.70	95	112	60	yes	60	NEW CMP NB
242	1121+78	170.65	22	28	24	yes	24	NEW CMP NB
243A	1145+88	170.16	32	39	(2) 10x4	yes	(2) 10x4	NEW CBC NB
244A	1149+56	170.07	42	50	24	yes	36	NEW CMP NB
245A	1153+48	170.01	45	54	30	<<NO>>	36	NEW CMP NB
246A	1160+84	169.90	30	37	(2) 36	yes	36	NEW CMP NB
247A	1174+93	169.21	346	424	(3) 10x8	yes	(3) 10x8	NEW CBC NB
247B	1189+92	169.21	142	173	n/a	n/a	60	NEW CMP NB
248	n/a	169.16	8	11	24	yes	DITCH	ROADSIDE RT, NB TO CULV 249A
249A	1202+91	169.03	187	236	6x7	yes	6x7	NEW CBC NB
249B	1208+89	169.03	11	14	n/a	n/a	24	NEW CMP NB
250	n/a	168.92	6	8	24	yes	DITCH	ROADSIDE RT, NB TO CULV 252A
251	n/a	168.82	9	11	24	<<NO>>	n/a	no culvert NB
252A	1219+35	168.69	58	72	48	yes	36	NEW CMP NB
253A	1231+68	168.47	51	62	(2) 30,(1) 24"	yes	(2) 30	NEW CMP NB
254A	1236+96	168.41	29	36	36	yes	36	NEW CMP NB
255A	1240+86	168.35	13	16	24	yes	24	NEW CMP NB
256	n/a	168.30	3	3	24	yes	n/a	no culvert NB
257A	1248+13	168.13	29	35	(2) 30"	<<NO>>	(2) 30	NEW CMP NB
258A	1252+12	167.99	20	25	24	yes	24	NEW CMP NB
259A	1278+10	167.72	63	78	10x8	yes	10x8	NEW CBC NB (CATTLE PASS)
260A	1292+70	167.17	18	21	n/a	n/a	24	NEW CMP NB
260B	1305+35	167.17	54	65	30	yes	30	NEW CMP NB
261A	1309+07	167.06	26	31	30	yes	30	NEW CMP NB
261B	1310+41	n/a	4	5	n/a	n/a	24	NEW CMP NB
262A	1314+19	166.89	24	29	30	yes	24	NEW CMP NB

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			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
263A	1335+44	166.61	776	943	(3) 12x10	yes	(3) 12x10	NEW CBC NB
264A	1338+75	166.45	45	55	36	<<NO>>	36	NEW CMP NB
265A	1351+90	166.23	43	53	42	yes	36	NEW CMP NB
265B	1354+65	166.23	6	7	n/a	n/a	24	NEW CMP NB
266A	1362+66	166.07	27	33	36	yes	30	NEW CMP NB
267A	n/a	166.03	5	6	30	yes	DITCH	ROADSIDE RT, NB TO BRIDGE 3A
268	n/a	165.94	6	7	24	yes	n/a	no culvert NB
BIG JIM WASH BRIDGE 3	1391+27	165.54	4864	6361	7-span x 30'	<<NO>>	8-span	NEW BRIDGE NB
269A	1397+70	165.43	44	55	24	yes	36	NEW CMP NB
270A	1407+15	165.22	40	48	36	yes	36	NEW CMP NB
271A	1409+85	165.10	91	112	(2) 36	yes	(2) 36	NEW CMP NB
272A	1416+80	165.05	77	94	(2) 36	<<NO>>	(2) 36	NEW CMP NB
273A	1421+74	164.94	16	19	(2) 24	yes	24	NEW CMP NB
274A	1425+21	164.89	146	185	48	<<NO>>	(2) 42	NEW CMP NB
275A	1428+45	164.82	8	10	24	<<NO>>	24	NEW CMP NB
276A	1433+00	164.75	137	169	(2) 6x5	yes	(2) 6x5	NEW CBC NB
277A	1441+09	164.61	306	366	10x8	yes	10x8	NEW CBC NB (CATTLE PASS)
278A	1446+26	164.51	88	110	(2) 42	yes	(2) 42	NEW CMP NB
279	n/a	164.44	4	5	24	yes	n/a	no culvert NB
280A	1455+90	164.40	10	13	(2) 42	yes	(2) 42	NEW CMP NB
281	n/a	164.31	7	8	24	yes	n/a	no culvert NB
282A	1461+82	164.23	25	30	10x8	yes	10x8	NEW CBC NB (CATTLE PASS)
283A	n/a	164.17	9	11	30	yes	DITCH	ROADSIDE RT, NB TO CULV 280A
284	n/a	164.08	5	6	24	yes	n/a	no culvert NB
285A	1472+94	163.93	41	52	(2) 36	yes	36	NEW CMP NB
285B	1476+24	163.93	40	50	n/a	n/a	36	NEW CMP NB
286	n/a	163.83	12	15	24	yes	n/a	no culvert NB
287A	1481+95	163.63	26	32	(2) 36	yes	30	NEW CMP NB

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			Q ₅₀ (cfs)	Q ₁₀₀ (cfs)	Pipe Diameter (inches)		Culvert Dia (inches) (#) W(ft) x Ht (ft)	
287B	1489+42	163.63	30	37	n/a	n/a	36	NEW CMP NB
288A	1493+17	163.54	35	43	36	<<NO>>	36	NEW CMP NB
289A	1501+36	163.37	148	187	6x7	yes	6x7	NEW CBC NB (CATTLE PASS)
289B	1504+65	163.37	40	52	n/a	n/a	36	NEW CMP NB
290A	1509+92	163.29	22	26	(2) 48	yes	42	NEW CMP NB
291A	1514+24	163.21	7	9	30	yes	24	NEW CMP NB
292	n/a	163.17	2	3	30	yes	n/a	no culvert NB
293A	1523+74	163.06	192	233	10x8	yes	10x8	NEW CBC NB (CATTLE PASS)
294A	1531+01	162.92	26	32	30	yes	30	NEW CMP NB
295A	1533+50	162.87	65	81	60	yes	60	NEW CMP NB
296A	1537+38	162.80	24	29	24	<<NO>>	30	NEW CMP NB
297A	1546+02	162.59	38	47	42	yes	42	NEW CMP NB
298A	1553+15	162.50	59	73	(2) 36	yes	(2) 36	NEW CMP NB
299A	1557+42	162.42	37	45	36	yes	36	NEW CMP NB
300	n/a	162.36	4	5	24	yes	n/a	no culvert NB
301A	1572+34	162.12	79	96	(2) 42	yes	(2) 42	NEW CMP NB
302A	1577+23	162.02	104	129	(2) 42	yes	(2) 42	NEW CMP NB
303	1587+82	161.85	404	486	(2) 6x7	yes	(2) 6x7	NEW CBC NB (CATTLE PASS)
304	1593+96	161.73	79	96	30	<<NO>>	30	extend RT

NOTES:

- 1) 50-Year Design Flow and 100-year Check Flow taken from Table 1.
- 2) Centerline of roadway elevation calculated from roadway as-built profiles.
- 3) The adequacy of existing culverts is based on results of analysis summarized in Table 3.
- 4) Recommended culverts pertain to new roadway segments unless stated otherwise.
- 5) Culverts 305, 306, and 307 are not expected to be modified.
- 6) This table is intended to compare the old cross-culverts and the new conveyances that will be used on the new roadway.
For a complete list of ditches channels, abutment and embankment lining, see Table 6 — Recommended Channel Itemized Summary