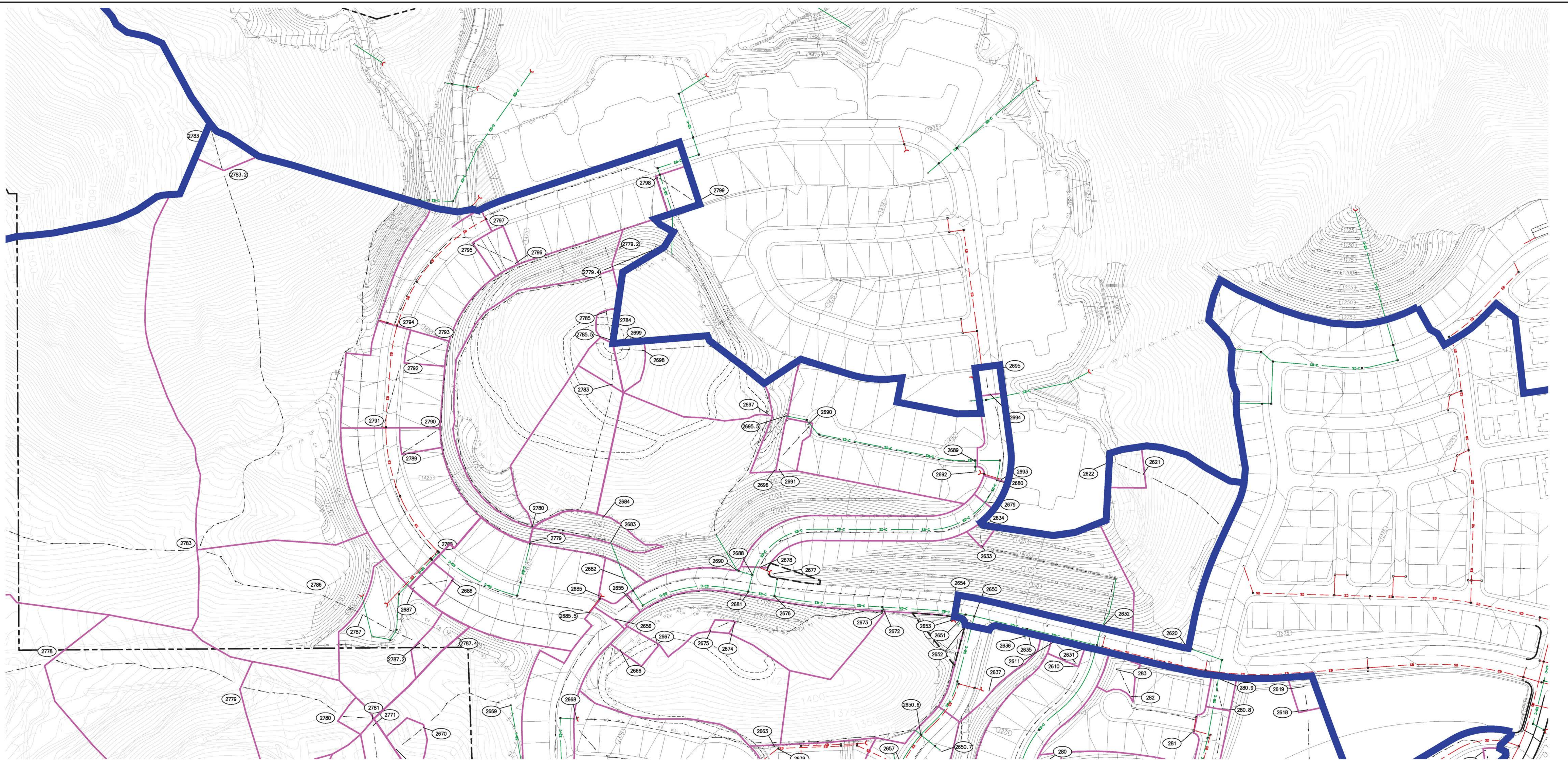
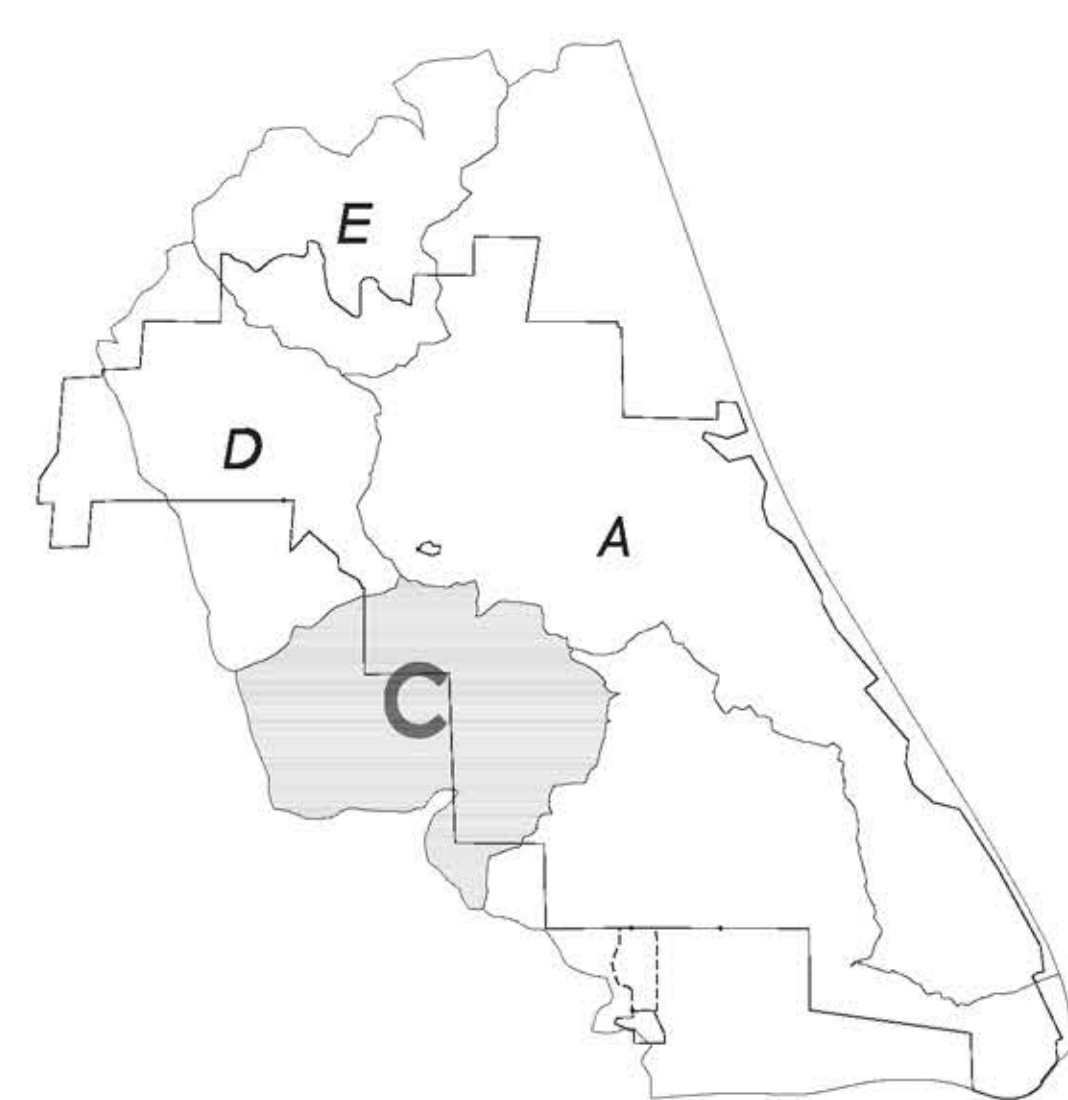
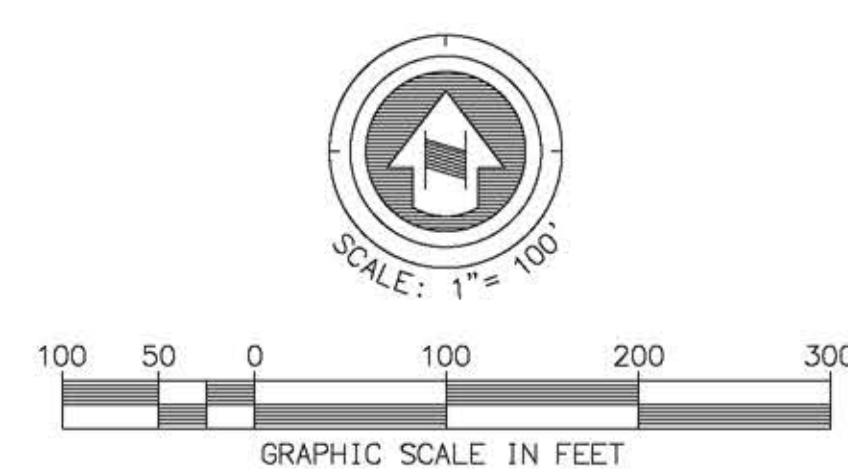




*REFERENCE SHEET 4 FOR HYDROLOGY STUDY DATA



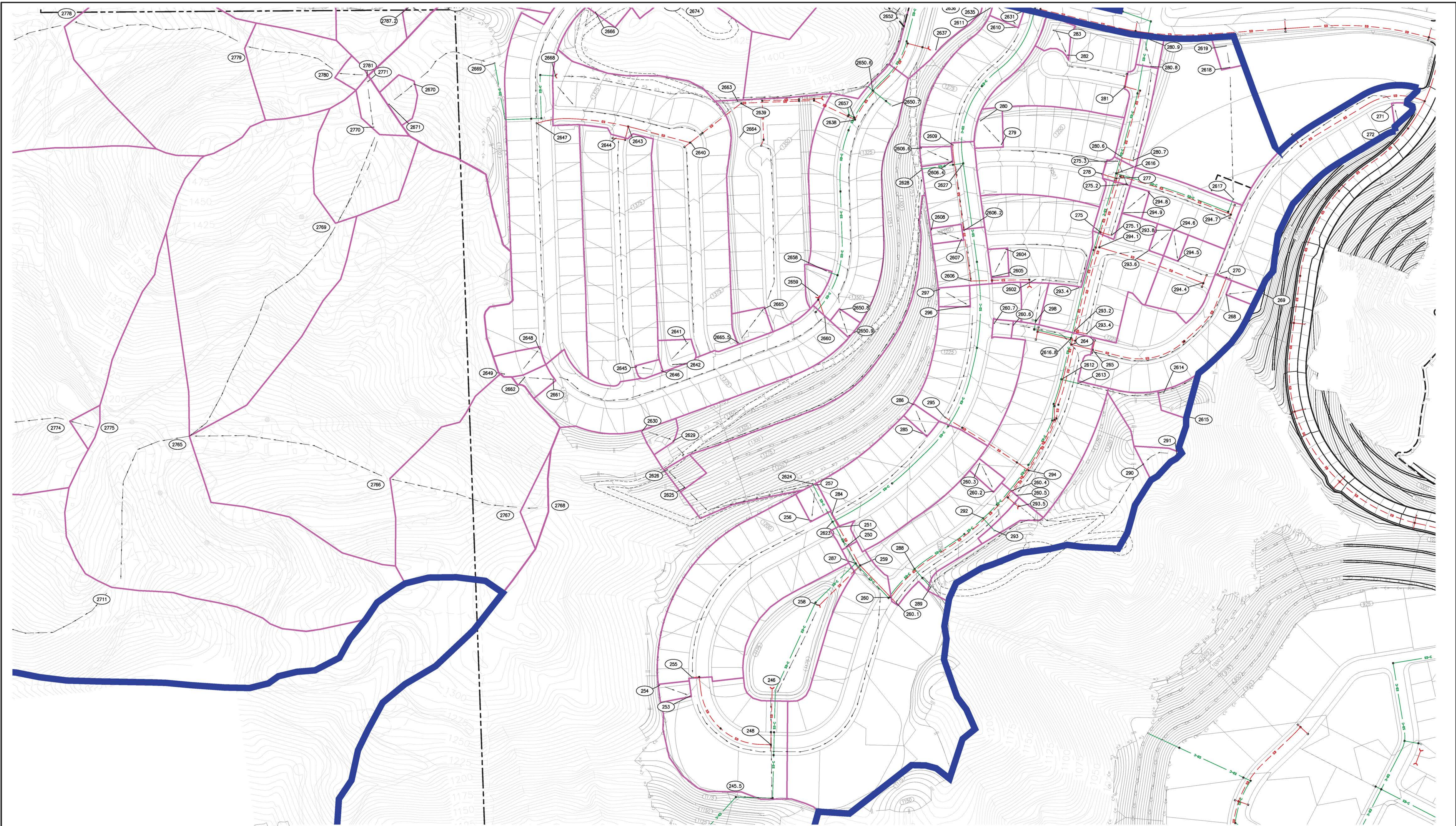
INDEX MAP



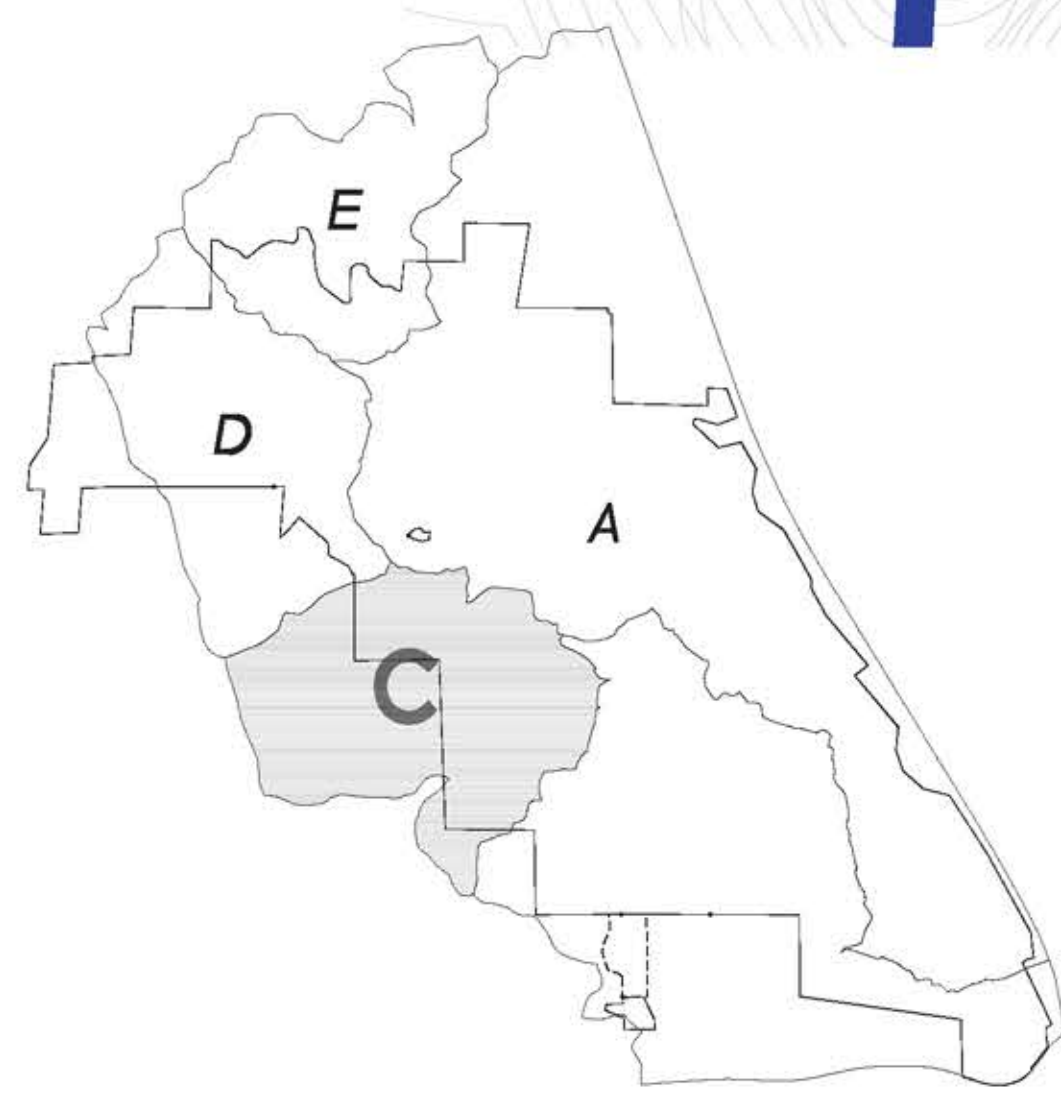
LEGEND

BASIN SUB AREA NODE	(101)
PROJECT BOUNDARY	—
MAJOR BASIN DIVIDE	—
HYDROLOGY SUB-BASIN	—
FLOW LENGTH	—
STORM DRAIN - DIRTY	—
STORM DRAIN - CLEAN	—
AREA NOT IN BASIN C	—

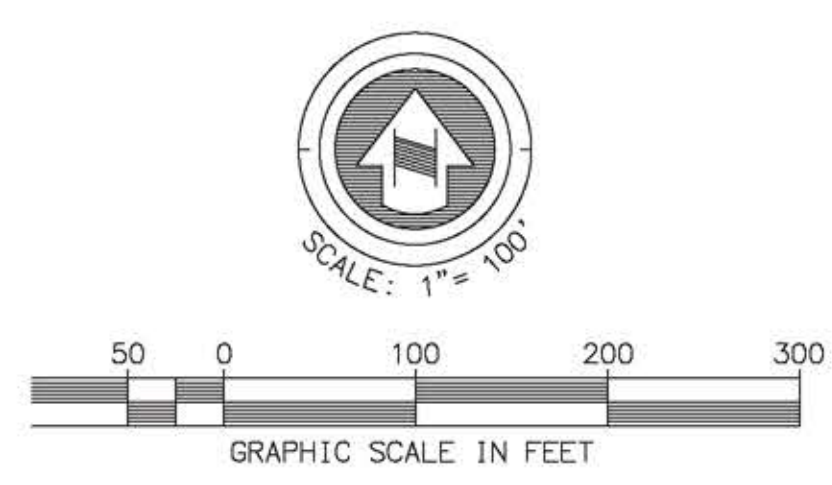
PROPOSED HYDROLOGY EXHIBIT
NEWLAND SIERRA DRAINAGE STUDY
PROPOSED DRAINAGE BASIN C - 2 OF 4
JANUARY 2017



*REFERENCE SHEET 4 FOR HYDROLOGY STUDY DATA



INDEX MAP



LEGEND

BASIN SUB AREA NODE	(101)
PROJECT BOUNDARY	—
MAJOR BASIN DIVIDE	—
HYDROLOGY SUB-BASIN	—
FLOW LENGTH	—
STORM DRAIN - DIRTY	—
STORM DRAIN - CLEAN	—
AREA NOT IN BASIN C	—

PROPOSED HYDROLOGY EXHIBIT
NEWLAND SIERRA DRAINAGE STUDY
PROPOSED DRAINAGE BASIN C - 3 OF 4
JANUARY 2017

BASIN 26 (1 OF 2)

Node to Node	Elev 1 (feet)	Elev 2 (feet)	Length (feet)	Area (ac.)
2695 2694	1454	1452.5	75	0.14
2694 2693	1452.5	1447	250	0.46
2693 2692	1441	1440	75	
2691 2690	1464	1461	95	0.23
2690 2692	1461	1448	500	3.63
2692 2689	1434	1433.6	30	
2696 2695.5	1464	1461	80	0.43
2695.5 2689	1458	1433.6	600	
2689 2688	1433.6	1363	975	
2699 2698	1605	1590	85	0.23
2698 2697	1590	1494	475	
2698 2697				1.66
2697 2690	1494	1375	515	
2697 2690				6.14
2690 2688	1369	1363	50	
2688 2681	1363	1362	50	
2687 2684	1411	1409	80	0.20
2686 2685.5	1409	1390	415	2.96
2685.5 2685	1384	1380	60	
2685 2682	1380	1379	85	0.25
2684 2683	1467	1423	100	0.45
2683 2682	1417	1373	110	
2682 2681	1373	1362	415	
2681 2676	1362	1359	80	
2680 2679	1447	1443	75	0.13
2679 2678	1443	1369.5	730	1.38
2678 2677	1365	1364	40	
2677 2676	1364	1359	50	
2676 2672	1359	1323	320	
2675 2674	1427	1420	75	0.05
2674 2673	1420	1330	440	
2674 2673				2.36
2673 2672	1324	1323	20	
2672 2651	1323	1309	250	
2671 2670	1445	1420	100	0.27
2670 2669	1420	1385	280	
2670 2669				4.07
2669 2668	1379	1375	415	
2668 2663	1375	1348	600	
2667 2666	1420	1405	100	0.19
2666 2663	1405	1348	680	
2666 2663				2.98
2665.5 2665	1363	1361	80	0.25
2665 2664	1361	1350	550	4.22
2664 2663	1344	1342	110	
2663 2657	1312	1312	372	
2662 2661	1400	1399	66.67	0.16
2661 2660	1399	1355	935	3.60
2660 2659	1349	1348.4	60	
2659 2658	1348.4	1347.6	80	0.17
2658 2657	1342	1313	540	
2657 2650.6	1312	1308	100	
2650.9 2650.8	1356	1354	80	0.10
2650.8 2650.7	1354	1315	690	3.79
2650.7 2650.6	1309	1308	75	
2650.6 2650	1308	1298.2	500	
2656 2655	1390	1389.5	55	0.15
2655 2654	1389.5	1315	970	1.50
2654 2653	1309	1309	50	
2653 2652	1305	1304.7	30	3.18
2652 2651	1299	1298.5	40	
2651 2650	1298.5	1298.2	30	
2650 2635	1298.2	1292.5	160	
2649 2648	1400	1398	80	0.25
2648 2647	1398	1380	720	5.78
2647 2643	1374	1361	300	
2646 2645	1395	1393	80	0.08
2645 2644	1393	1368	730	4.06
2644 2643	1362	1361	50	
2643 2640	1361	1356	200	
2642 2641	1378	1376	81.58	0.22
2641 2640	1376	1362	610	5.99
2640 2639	1362	1342	210	
2639 2638	1342	1314	380	
2638 2637	1314	1295	380	
2637 2636	1295	1293	200	1.02
2636 2635	1293	1292.5	20	
2635 2631	1292.5	1278.5	195	
2634 2633	1435	1405	50	0.07
2633 2632	1405	1285	540	4.39
2632 2631	1279	1278.5	50	
2631 2627	1278.5	1253	600	
2630 2629	1390	1352	100	0.18
2629 2628	1352	1262	1370	4.60
2628 2627	1256	1253	125	
2627 2623	1253	1197	1335	
2626 2625	1330	1280	80	0.19
2625 2624	1280	1207	440	4.59
2624 2623	1201	1197	125	
2623 267	1196	1185.5	130	
2622 2621	1435	1395	100	0.27
2621 2620	1395	1275	645	
2621 2620				3.37
2620 2616	1261	1231	380	

BASIN 26 (2 OF 2)

Node to Node	Elev 1 (feet)	Elev 2 (feet)	Length (feet)	Area (ac.)
2619 2618	1249	1247.7	65	0.17
2618 2617	1247.7	1239	420	3.59
2617 2616	1236	1231	415	
2616 2616.8	1231	1223	540	
2611 2610	1292	1290	80	0.12
2610 2609	1290	1265	435	1.90
2609 2606.2	1259	1241	275	
2606.6 2606.4	1267	1265	80	0.13
2606.4 2606.2	1265	1248	215	0.92
2606.2 2606	1242	1232	170	
2608 2607	1254	1252	80	0.12
2607 2606	1252	1238	170	0.63
2606 2602	1232	1226	150	
2605 2604	1244	1242	80	0.12
2604 2602	1242	1226	495	2.00
2602 298	1226	1222	130	0.22
298 2616.8	1216	1214	160	
2616.8 2612	1214	1212	130	
2615 2614	1275	1230	100	0.22
2614 2613	1230	1219	260	
2614 2613				0.67
2613 2612	1213	1212	50	
2612 292	1212	1196	515	
297 296	1236	1234	80	0.15
296 295	1236	1215	475	2.67
295 294	1209	1206	125	
294.9 294.8	1245	1243	80.00	0.14
294.8 294.7	1243	1238	210	1.09
294.7 294.1	1236	1223	605	
294.6 294.5	1236	1234	80	0.10
294.5 294.4	1234	1233	100	0.89
294.4 294.1	1227	1223	350	
294.1 294	1223	1204	750	
294 293.5	1204	1200	150	
293.5 293	1200	1199	100	0.21
293 292	1199	1196	50	
292 288	1196	1189	270	
291 290	1300	1270	100	0.20
290 289	1270	1195	840	
290 289				2.84
289 288	1189	1187	170	
288 287	1187	1185.5	275	
287 246	1185.5	1178	480	
286 285	1218	1216	80	0.13
285 284	1216	1203	380	2.74
284 283	1197	1195	180	
283 282	1248	1266	80	0.23
282 281	1266	1262	220	2.06
281 280.6	1256	1241	270	
280.9 280.8	1269	1266	80	0.16
280.8 280.7	1266	1248	300	0.56
280.7 280.6	1242	1241	40	
280.6 277	1241	1238	70	
280 279	1257	1255	80	0.24
279 278	1255	1244	340	2.58
278 277	1239	1238	50	
277 275	1238	1228	180	
275.3 275.2	1247	1243	80	0.14
275.2 275.1	1243	1235	165	0.29
275.1 275	1229	1228	40	
275 293.2	1228	1218	330	
293.8 293.6	1236	1234	80	0.11
293.6 293.4	1234	1224	390	1.90
293.4 293.2	1219	1218	40	
293.2 264	1218	1216	45	
272 271	1246	1244	80	0.07
271 270	1244	1233	850	2.74
270 265	1227	1217	560	
269 268	1235	1233	80	0.11
268 265	1233	1222	520	2.51
265 264	1217	1216	70	
264 260.4	1216	1201	515	
260.7 260.6	1230	1228	80	0.08
260.6 260.5	1228	1207	740	3.29
260.5 260.4	1202	1201	20	
260.4 260	1201	1186	512	
260.3 260.2	1209	1207	80	0.13
260.2 260.1	1207	1192	510	1.91
260.1 260	1188	1187.5	25	
260 259	1187.5	1186	140	
259 258	1186	1184	160	
258 246	1184	1172	300	1.93
257 256	1205	1203	80	0.17
256 255	1203	1185	670	4.27
255 248	1179	1175	355	
254 253	1188	1186	80	0.12
253 248	1186	1181	330	2.82
251 250	1203	1201	80	0.09
250 248	1201	1181	890	7.17
248 246	1175	1172	150	
246 245.5	1175	1170	450	
245.5 245	1170	1098	170	
245 26	1098	970	1180	
245 26				39.89

BASIN 27

Node to Node	Elev 1 (feet)	Elev 2 (feet)	Length (feet)	Area (ac.)
2799 2798	1498.6	1495.6	95	0.27
2798 2797	1495.6	1469	525	2.32
2797 2794	1463	1442	420	
2796 2795	1474.8	1471.8	95	0.25
2795 2794	1471.8	1448	380	1.88
2794 2791	1442	1427	195	
2793 2792	1451	1448	95	0.24
2792 2791	1448	1433	195	1.58
2791 2788	1427	1408	400	
2790 2789	1436	1434	80	0.19
2789 2788	1434	1414	325	2.58
2788 2787	1408	1384		
2785.5 2785	1605	1585	90	0.11
2785 2780	1585	1432	1200	4.19
2784 2783	1605	1592	100	0.25
2783 2780	1592	1432	1200	2.18
2780 2779	1426	1396	50	
2779.4 2779.2	1494	1491	95	0.38
2779.2 2779	1491	1403	1265	1.67
2779 2787	1397	1384	685	
2787.4 2787.2	1405	1400	65	0.30
2787.2 2787	1405	1390	155	1.79
2787 2786	1384	1350	200	
2786 2783	1350	1300	400	3.89
2783.4 2783.2	1745	1730	90	0.29
2783.2 2783	1730	1300	1275	14.91
2783 2782	1300	1135	1410	28.13
2782 2777	1135	1040	670	8.96
2781 2780	1445	1435	75	0.14
2780 2779	1435	1395	300	1.76
2779 2778	1395	1305	585	5.55
2778 2777	1305	1040	1335	16.86
2777 2776	1040	970	1200	21.24
2776 2772	970	930	930	16.81
2775 2774	1155	1140	75	0.16
2774 2773	1140	1035	440	14.38
2773 2772	1035	930	990	14.24
2772 27	930	920	385	3.57
2771 2770	1450	1445	90	0.35
2770 2769	1445	1390	305	1.97
2769 2765	1390	1170	820	9.79
2768 2767	1300	1295	75	0.31
2767 2766	1295	1230	430	5.63
2766 2765	1230	1170	650	15.49
2765 2711	1170	1105	600	11.00
2711 27	1105	920	1460	18.20

BASIN 31

Node to Node	Elev 1 (feet)	Elev 2 (feet)	Length (feet)	Area (ac.)
3103 3102	1,335.0	1,300.0	82.0	0.47
3102 3101	1,300.0	1,035.0	594.0	5.56
3101 31	1,035.0	650.0	1,825.0	31.91

BASIN 30

Node to Node	Elev 1 (feet)	Elev 2 (feet)	Length (feet)	Area (ac.)
3006 3005	1,615	1,380	76.0	0.17
3005 3004	1,580	1,360	446.0	2.06
3004 3003	1,360	1,210	559.0	9.02
3003 3002	1,210	1,080	597.0	21.04
3002 3001	1,080	870	871.0	21.39
3001 30	870	665	1,721.0	54.15

A=37.9 AC
L=2,501 FT
Q=82 CFS
Tc=14.2 MIN

A=107.8 AC
L=4,289 FT
Q=181 CFS
Tc=16.9 MIN

BASIN 29

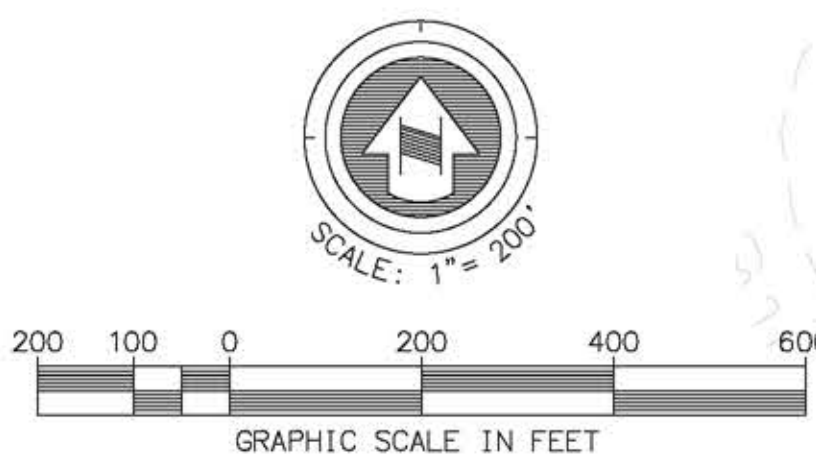
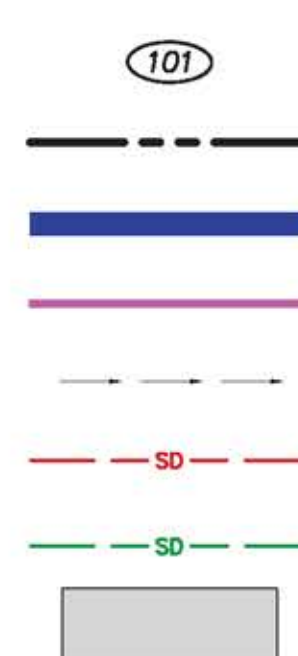
Node to Node	Elev 1 (feet)	Elev 2 (feet)	Length (feet)	Area (ac.)
2927 2926	1,603	1,570	100	0.19
2926 2925	1,570	1,470	307	1.15
2925 2924	1,470	1,390	520	6.88
2924 2922	1,390	1,370	361	9.3

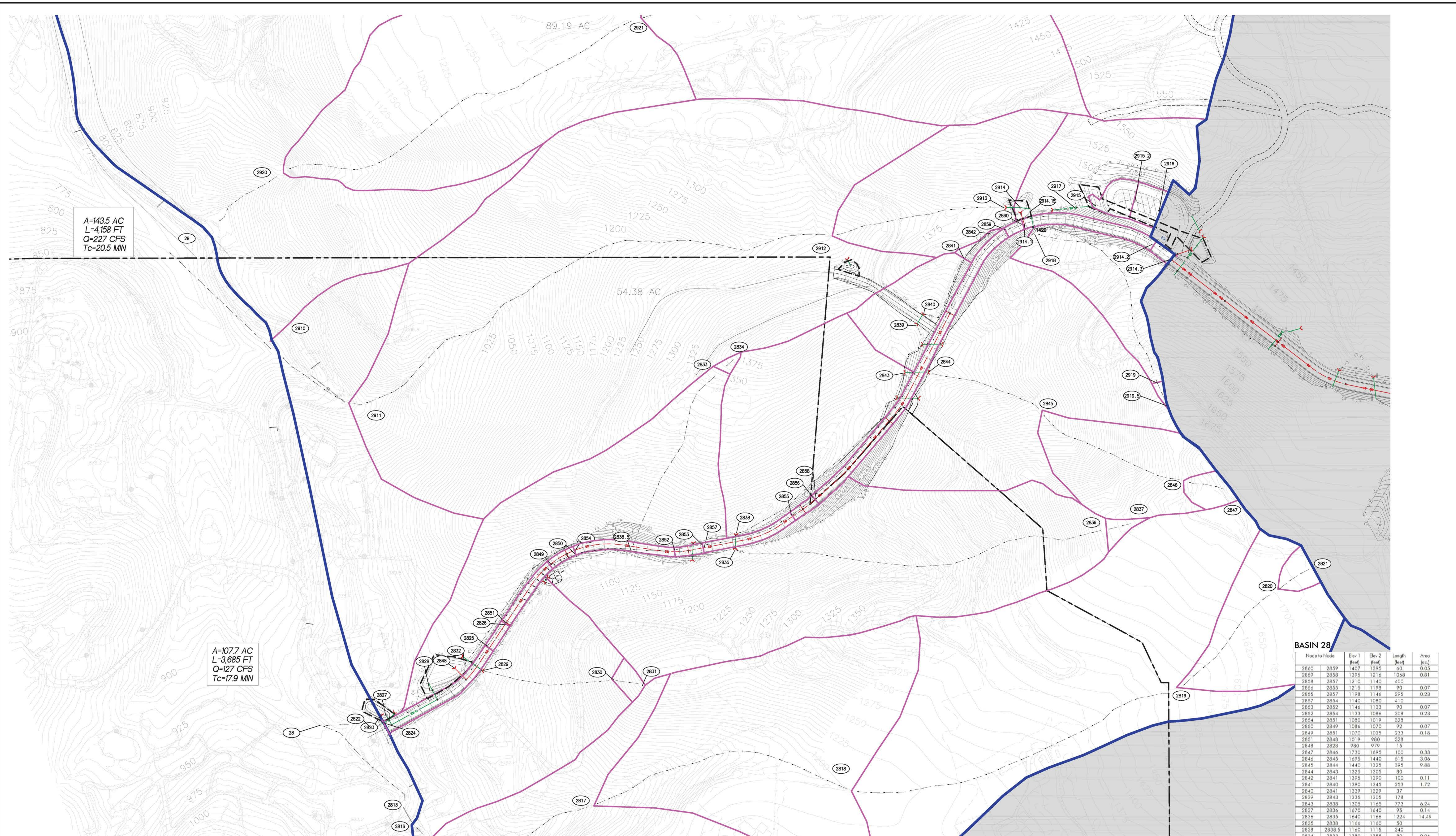
SHEET 2

INDEX MAP

LEGEND

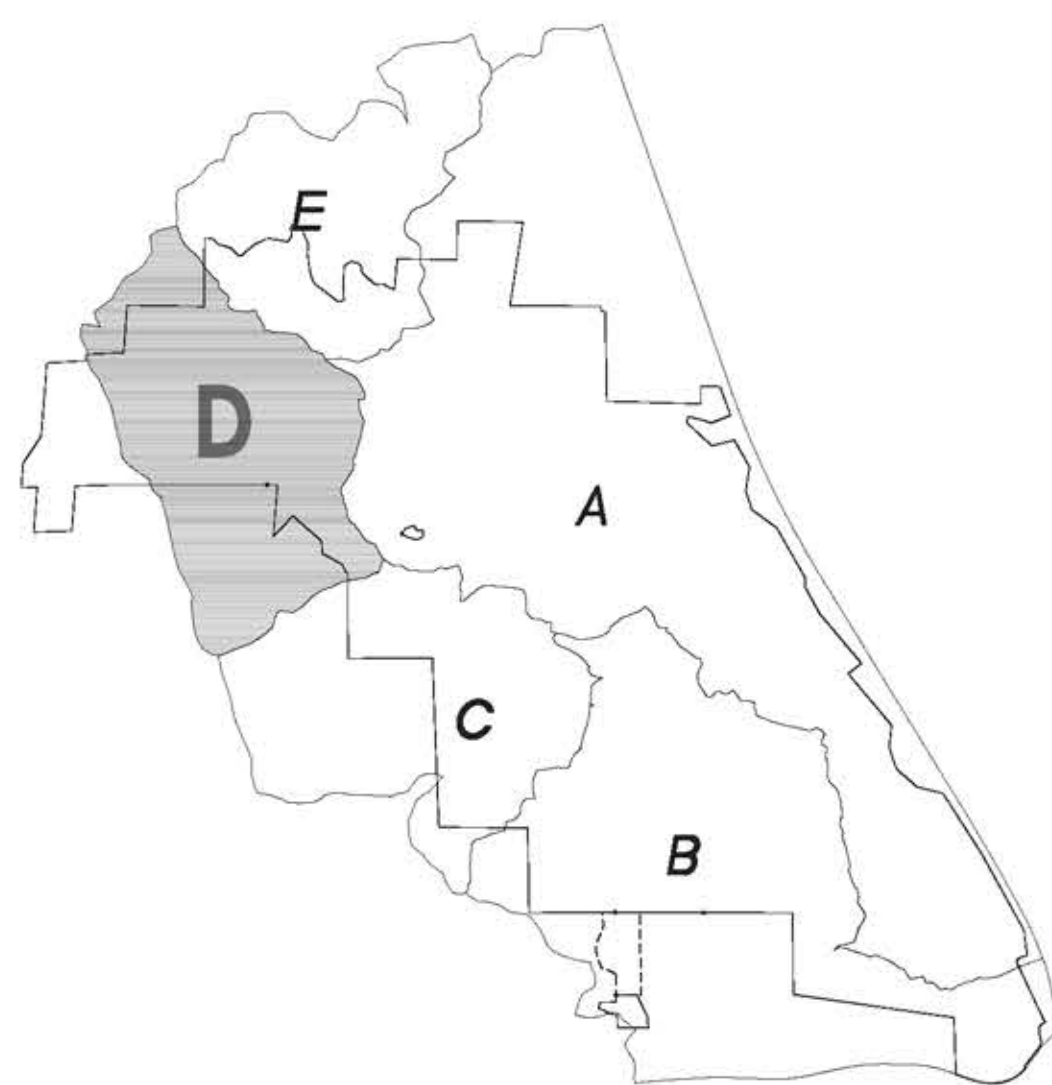
- BASIN SUB AREA NODE
- PROJECT BOUNDARY
- MAJOR BASIN DIVIDE
- HYDROLOGY SUB-BASIN
- FLOW LENGTH
- STORM DRAIN - DIRTY
- STORM DRAIN - CLEAN
- AREA NOT IN BASIN A



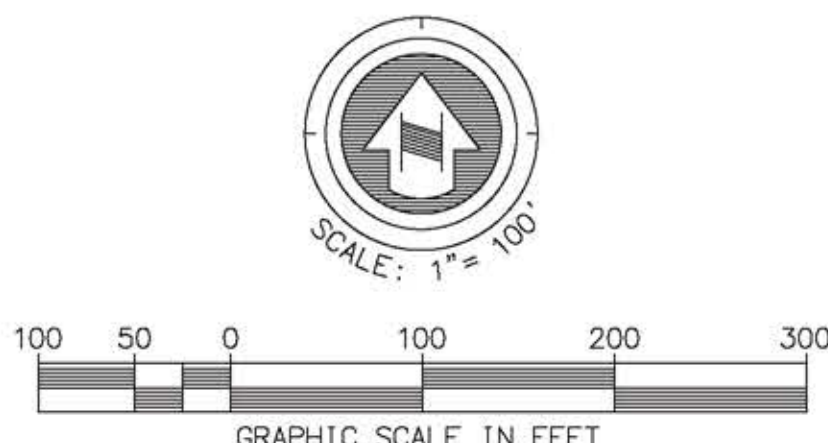


BASIN 29

Node to Node	Elev. 1 (feet)	Elev. 2 (feet)	Length (feet)	Area (ac.)
2922-2921	1370	1300	1235	29.57
2921-2920	1300	893	1300	15.07
2920-29	893	800	335	27.04
2919.5-2919	1664	1640	85	0.04
2919-2918	1640	1420	685	2.37
2918-2914.15	1420	1410	60	
2916-2915.2	1485	1483	80	0.27
2915.2-2915	1483	1475	120	0.3
2915-2917	1469	1460	60	
2917-2914.15	1460	1410	170	3.21
2914.3-2914.2	1484	1477	70	0.06
2914.2-2914.1	1477	1408	425	
2914.1-2914	1406	1405	40	
2914-2913	1399	1398	50	
2913-2912	1398	1290	575	4.69
2912-2911	1290	1025	1175	19.17
2911-2910	1025	835	830	23.79
2910-29	835	800	455	



INDEX MAP



LEGEND

BASIN SUB AREA NODE (101)

PROJECT BOUNDARY

MAJOR BASIN DIVIDE

HYDROLOGY SUB-BASIN

FLOW LENGTH

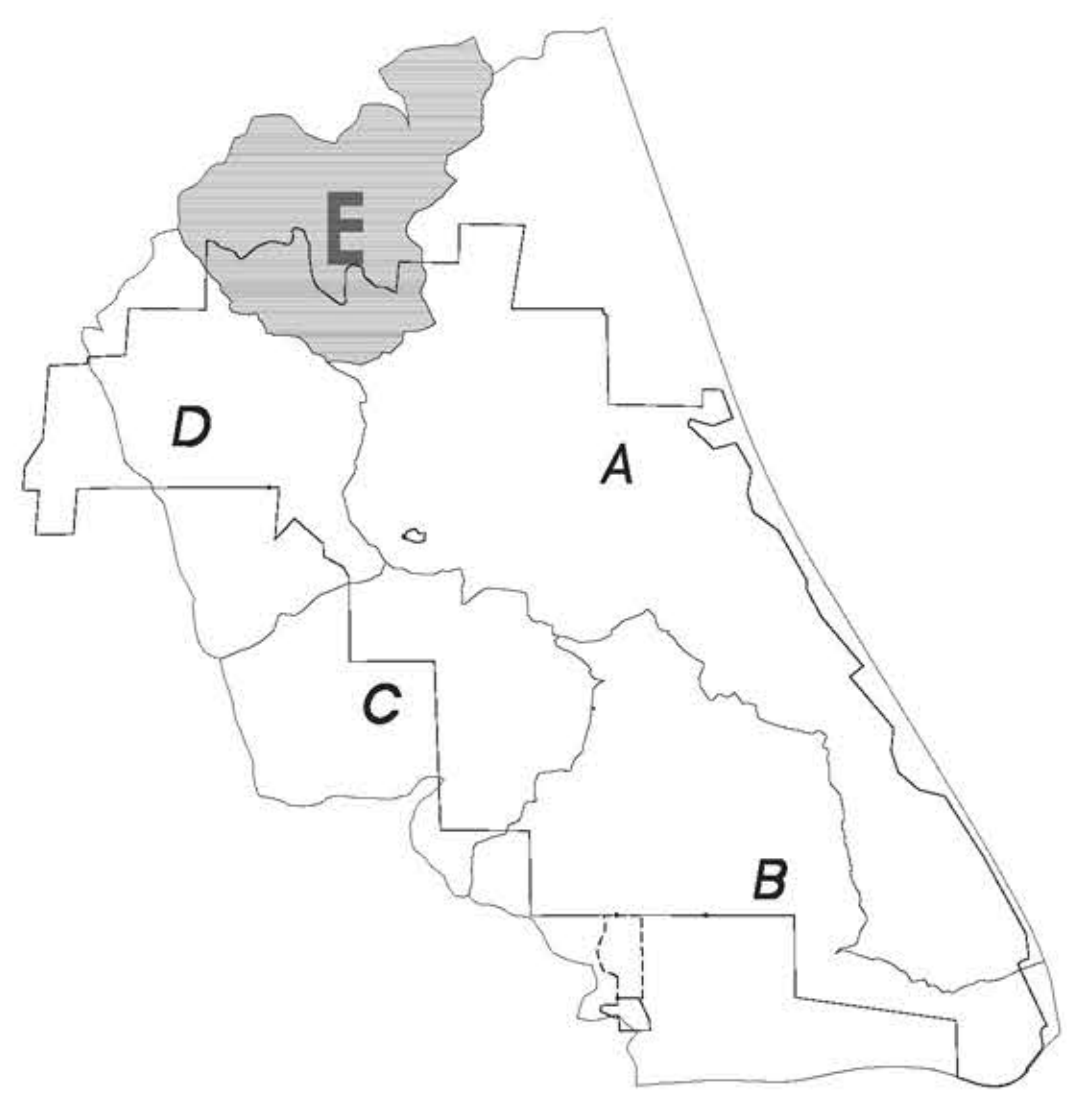
STORM DRAIN - DIRTY

STORM DRAIN - CLEAN

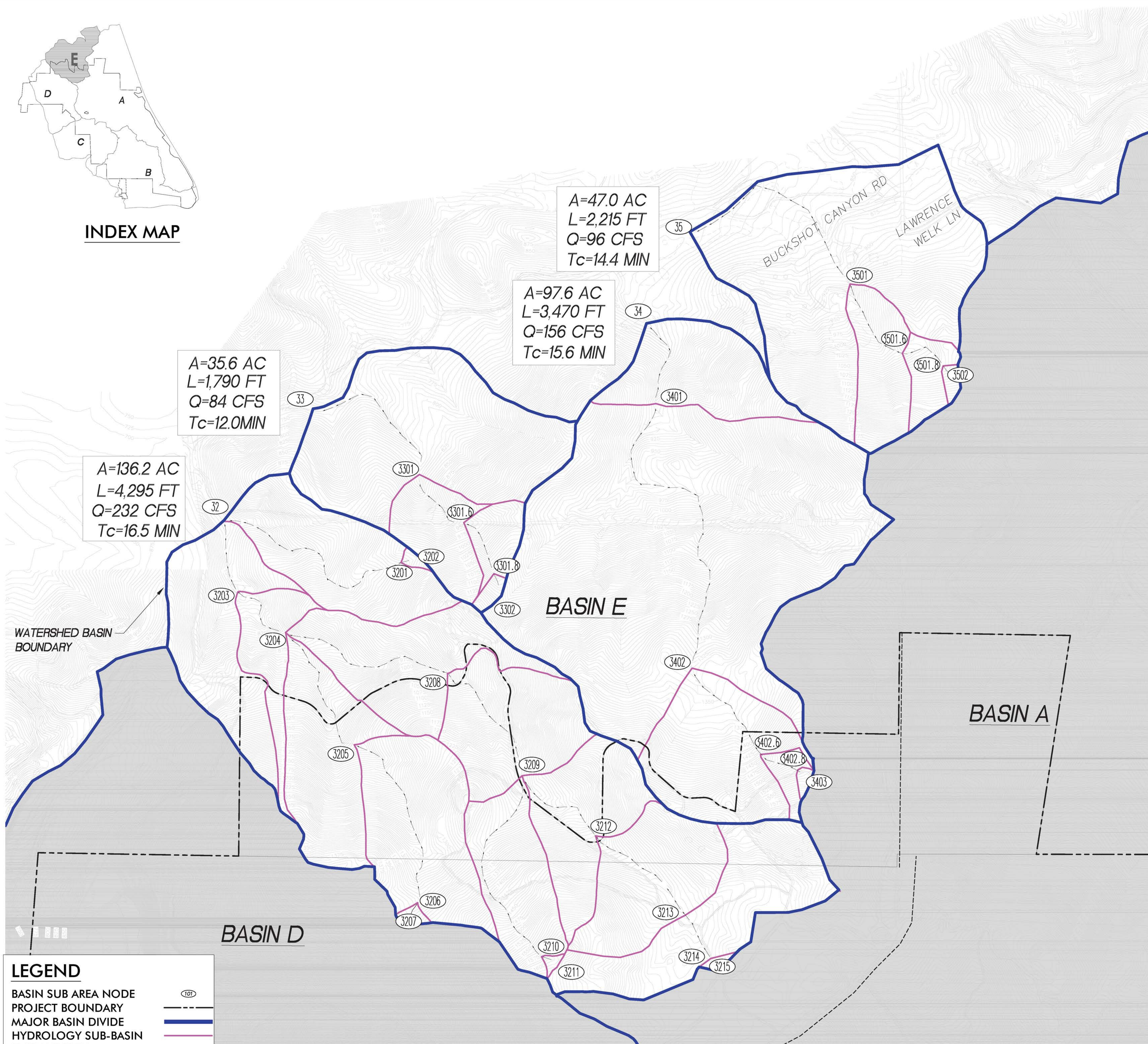
AREA NOT IN BASIN A

BASIN 28

Node to Node	Elev. 1 (feet)	Elev. 2 (feet)	Length (feet)	Area (ac.)
2860-2859	1407	1395	60	0.05
2859-2858	1395	1216	1068	0.81
2858-2857	1210	1140	400	
2856-2855	1215	1198	90	0.07
2855-2857	1198	1146	295	0.23
2857-2854	1140	1080	410	
2853-2852	1146	1133	90	0.07
2852-2854	1133	1086	308	0.23
2854-2851	1080	1019	328	
2850-2849	1086	1070	92	0.07
2849-2851	1070	1025	233	0.18
2851-2848	1019	980	328	
2848-2828	980	979	15	
2847-2846	1730	1695	100	0.33
2846-2845	1695	1440	515	3.06
2845-2844	1440	1325	395	9.88
2844-2843	1325	1305	80	
2842-2841	1395	1390	100	0.11
2841-2840	1390	1345	253	1.72
2840-2841	1339	1329	37	
2839-2843	1335	1305	178	
2843-2838	1305	1165	773	6.24
2837-2836	1670	1640	95	0.14
2836-2835	1640	1166	1224	14.49
2835-2838	1166	1160	50	
2838-2838.5	1160	1115	340	
2834-2833	1380	1355	80	0.06
2833-2838.5	1355	1115	665	
2838.1-2832	1115	996	720	8.35
2831-2830	1290	1205	100	0.18
2830-2829	1205	1005	425	7.31
2829-2832	1005	995	56	
2832-2828	995	979	73	
2828-2827	979	946	358	
2826-2825	1025	1012	95	0.07
2825-2824	1012	960	394	0.37
2824-2823	954	947	85	
2823-2827	947	946	26	
2822-2822	946	945	15	
2822-28	945	925	112	
2821-2820	1736	1707	100	0.28
2820-2819	1707	1500	460	3.50
2819-2818	1500	1200	1130	16.92
2818-2817	1200	1070	890	11.28
2817-2816	1070	980	655	5.72
2815-2814	1260	1235	100	0.30
2814-2816	1235	980	1510	15.71
2816-2813	980	956	75	
2813-28	965	925	375	

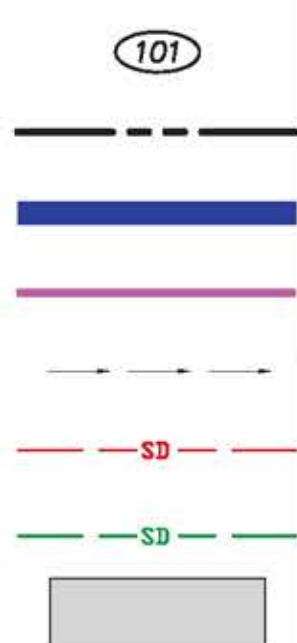


INDEX MAP



LEGEND

BASIN SUB AREA NODE
PROJECT BOUNDARY
MAJOR BASIN DIVIDE
HYDROLOGY SUB-BASIN
FLOW LENGTH
STORM DRAIN - DIRTY
STORM DRAIN - CLEAN
AREA NOT IN BASIN E



GRAPHIC SCALE IN FEET

PROPOSED HYDROLOGY EXHIBIT
NEWLAND SIERRA DRAINAGE STUDY
PROPOSED DRAINAGE BASIN E - 1 OF 1
SEPTEMBER 2016

*DATA FOR BASINS 30 THROUGH 35 DO NOT CHANGE,
DATA CAN BE FOUND IN THE EXISTING HYDROLOGY EXHIBIT