

Appendix B – Hydraulic Calculations

- Normal Depth Calculations – Onsite
- WSPG Models
 - PStorage Lateral 2 (LAT2.WSW)
 - PStorage Lateral 3 (LAT3.WSW)

Worksheet for ON2-A1

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	1.64 %
Discharge	2.50 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00.00	0.50
0+00.50	0.48
0+00.50	0.00
0+02.00	0.13
0+02.00	0.17
0+46.50	1.06
0+46.50	1.54
0+47.00	1.56

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00.00, 0.50)	(0+47.00, 1.56)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	0.32 ft
Roughness Coefficient	0.016
Elevation	0.32 ft
Elevation Range	0.00 to 1.56 ft
Flow Area	1.0 ft ²
Wetted Perimeter	9.48 ft
Hydraulic Radius	0.10 ft
Top Width	9.11 ft
Normal Depth	0.32 ft
Critical Depth	0.35 ft
Critical Slope	0.80 %
Velocity	2.59 ft/s
Velocity Head	0.10 ft

Worksheet for ON2-A1

Results

Specific Energy	0.43 ft
Froude Number	1.404
Flow Type	Supercritical

GVF Input Data

Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0

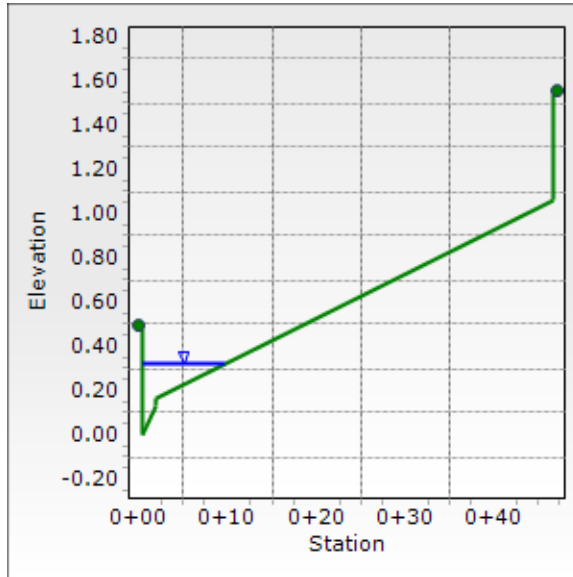
GVF Output Data

Upstream Depth	0.00 ft
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.32 ft
Critical Depth	0.35 ft
Channel Slope	1.64 %
Critical Slope	0.80 %

Cross Section for ON2-A1

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	1.64 %
Normal Depth	0.32 ft
Discharge	2.50 cfs



Worksheet for ON3-A1

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	6.00 %
Discharge	4.00 cfs

Section Definitions

	Station (ft)	Elevation (ft)	
	0+00.00		0.50
	0+00.50		0.48
	0+00.50		0.00
	0+02.00		0.13
	0+02.00		0.17
	0+26.70		0.66
	0+26.70		1.14
	0+27.20		1.16

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00.00, 0.50)	(0+27.20, 1.16)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	0.31 ft
Roughness Coefficient	0.016
Elevation	0.31 ft
Elevation Range	0.00 to 1.16 ft
Flow Area	0.8 ft ²
Wetted Perimeter	8.79 ft
Hydraulic Radius	0.10 ft
Top Width	8.43 ft
Normal Depth	0.31 ft
Critical Depth	0.40 ft
Critical Slope	0.75 %
Velocity	4.76 ft/s
Velocity Head	0.35 ft

Worksheet for ON3-A1

Results

Specific Energy	0.66 ft
Froude Number	2.658
Flow Type	Supercritical

GVF Input Data

Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0

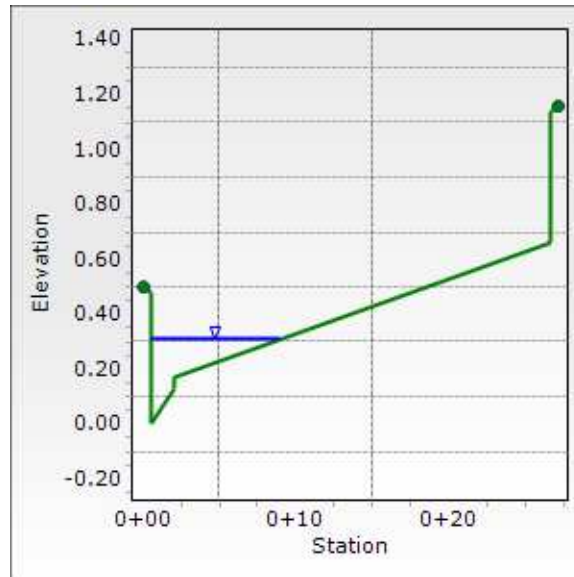
GVF Output Data

Upstream Depth	0.00 ft
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.31 ft
Critical Depth	0.40 ft
Channel Slope	6.00 %
Critical Slope	0.75 %

Cross Section for ON3-A1

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	6.00 %
Normal Depth	0.31 ft
Discharge	4.00 cfs



PUBLIC STORAGE - SUMMERLIN PHASE II

PSTORAGE LATERAL 2

KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM CROSSINGS PHASE VII STUD

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1000.000	2805.120	2.360	2807.480	7.00	3.96	.24	2807.72	.00	1.02	.00	1.500	.000	.00	0 .0
6.394	.0716					.0044	.03	2.36	.00	.51	.013	.00	.00	PIPE
1006.394	2805.578	1.931	2807.509	7.00	3.96	.24	2807.75	.00	1.02	.00	1.500	.000	.00	0 .0
HYDRAULIC JUMP														
1006.394	2805.578	.513	2806.091	7.00	13.09	2.66	2808.75	.00	1.02	1.42	1.500	.000	.00	0 .0
22.512	.0716					.0677	1.52	.51	3.77	.51	.013	.00	.00	PIPE
1028.906	2807.190	.522	2807.712	7.00	12.79	2.54	2810.25	.00	1.02	1.43	1.500	.000	.00	0 .0
20.865	.0716					.0614	1.28	.52	3.64	.51	.013	.00	.00	PIPE
1049.770	2808.684	.540	2809.224	7.00	12.19	2.31	2811.53	.00	1.02	1.44	1.500	.000	.00	0 .0
10.683	.0716					.0538	.58	.54	3.40	.51	.013	.00	.00	PIPE
1060.453	2809.449	.560	2810.009	7.00	11.63	2.10	2812.11	.00	1.02	1.45	1.500	.000	.00	0 .0
6.994	.0716					.0472	.33	.56	3.18	.51	.013	.00	.00	PIPE
1067.447	2809.950	.580	2810.531	7.00	11.09	1.91	2812.44	.00	1.02	1.46	1.500	.000	.00	0 .0
5.000	.0718					.0416	.21	.58	2.97	.51	.013	.00	.00	PIPE
1072.447	2810.309	.600	2810.909	7.00	10.59	1.74	2812.65	.00	1.02	1.47	1.500	.000	.00	0 .0
3.719	.0716					.0367	.14	.60	2.78	.51	.013	.00	.00	PIPE
1076.165	2810.575	.621	2811.196	7.00	10.13	1.59	2812.79	.00	1.02	1.48	1.500	.000	.00	0 .0
3.134	.0716					.0324	.10	.62	2.61	.51	.013	.00	.00	PIPE

PUBLIC STORAGE - SUMMERLIN PHASE II

PSTORAGE LATERAL 2

KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM CROSSINGS PHASE VII STUD

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1079.299	2810.800	.643	2811.443	7.00	9.66	1.45	2812.89	.00	1.02	1.48	1.500	.000	.00	0 .0
2.495	.0716					.0284	.07	.64	2.44	.51	.013	.00	.00	PIPE
1081.794	2810.978	.667	2811.645	7.00	9.21	1.32	2812.96	.00	1.02	1.49	1.500	.000	.00	0 .0
2.033	.0716					.0250	.05	.67	2.27	.51	.013	.00	.00	PIPE
1083.827	2811.124	.692	2811.816	7.00	8.78	1.20	2813.01	.00	1.02	1.50	1.500	.000	.00	0 .0
1.670	.0716					.0220	.04	.69	2.12	.51	.013	.00	.00	PIPE
1085.497	2811.243	.718	2811.961	7.00	8.37	1.09	2813.05	.00	1.02	1.50	1.500	.000	.00	0 .0
1.377	.0716					.0193	.03	.72	1.98	.51	.013	.00	.00	PIPE
1086.874	2811.342	.745	2812.087	7.00	7.98	.99	2813.08	.00	1.02	1.50	1.500	.000	.00	0 .0
1.117	.0716					.0170	.02	.75	1.84	.51	.013	.00	.00	PIPE
1087.991	2811.422	.774	2812.196	7.00	7.61	.90	2813.10	.00	1.02	1.50	1.500	.000	.00	0 .0
.915	.0716					.0150	.01	.77	1.71	.51	.013	.00	.00	PIPE
1088.906	2811.488	.804	2812.292	7.00	7.26	.82	2813.11	.00	1.02	1.50	1.500	.000	.00	0 .0
.743	.0716					.0132	.01	.80	1.59	.51	.013	.00	.00	PIPE
1089.649	2811.541	.835	2812.376	7.00	6.92	.74	2813.12	.00	1.02	1.49	1.500	.000	.00	0 .0

PUBLIC STORAGE - SUMMERLIN PHASE II

PSTORAGE LATERAL 3

KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM STA: 1100 - CROSSINGS PH

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/Dia.-FT	Base Wt/or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1000.000	2809.480	3.500	2812.980	2.50	.51	.00	2812.98	.00	.52	.00	2.500	.000	.00	0 .0
14.868	.0673					.0000	.00	3.50	.00	.26	.013	.00	.00	PIPE
1014.868	2810.480	2.500	2812.980	2.50	.51	.00	2812.98	.00	.52	.00	2.500	.000	.00	0 .0
3.427	.0673					.0000	.00	2.50	.00	.26	.013	.00	.00	PIPE
1018.295	2810.711	2.268	2812.979	2.50	.53	.00	2812.98	.00	.52	1.45	2.500	.000	.00	0 .0
2.001	.0673					.0000	.00	2.27	.05	.26	.013	.00	.00	PIPE
1020.296	2810.846	2.133	2812.979	2.50	.56	.00	2812.98	.00	.52	1.77	2.500	.000	.00	0 .0
1.643	.0673					.0000	.00	2.13	.06	.26	.013	.00	.00	PIPE
1021.939	2810.956	2.022	2812.979	2.50	.59	.01	2812.98	.00	.52	1.97	2.500	.000	.00	0 .0
1.434	.0673					.0000	.00	2.02	.07	.26	.013	.00	.00	PIPE
1023.373	2811.053	1.925	2812.978	2.50	.62	.01	2812.98	.00	.52	2.10	2.500	.000	.00	0 .0
1.300	.0673					.0000	.00	1.93	.08	.26	.013	.00	.00	PIPE
1024.673	2811.140	1.837	2812.977	2.50	.65	.01	2812.98	.00	.52	2.21	2.500	.000	.00	0 .0
1.180	.0673					.0000	.00	1.84	.09	.26	.013	.00	.00	PIPE
1025.853	2811.219	1.757	2812.977	2.50	.68	.01	2812.98	.00	.52	2.29	2.500	.000	.00	0 .0
1.090	.0673					.0001	.00	1.76	.09	.26	.013	.00	.00	PIPE
1026.943	2811.293	1.683	2812.976	2.50	.71	.01	2812.98	.00	.52	2.35	2.500	.000	.00	0 .0
1.015	.0673					.0001	.00	1.68	.10	.26	.013	.00	.00	PIPE

PUBLIC STORAGE - SUMMERLIN PHASE II

PSTORAGE LATERAL 3

KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM STA: 1100 - CROSSINGS PH

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/Dia.-FT	Base Wt/or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1027.958	2811.361	1.614	2812.975	2.50	.75	.01	2812.98	.00	.52	2.39	2.500	.000	.00	0 .0
.954	.0673					.0001	.00	1.61	.11	.26	.013	.00	.00	PIPE
1028.912	2811.425	1.549	2812.974	2.50	.78	.01	2812.98	.00	.52	2.43	2.500	.000	.00	0 .0
.893	.0673					.0001	.00	1.55	.12	.26	.013	.00	.00	PIPE
1029.805	2811.485	1.488	2812.973	2.50	.82	.01	2812.98	.00	.52	2.45	2.500	.000	.00	0 .0
.833	.0673					.0001	.00	1.49	.13	.26	.013	.00	.00	PIPE
1030.638	2811.542	1.431	2812.973	2.50	.86	.01	2812.98	.00	.52	2.47	2.500	.000	.00	0 .0
.801	.0673					.0001	.00	1.43	.14	.26	.013	.00	.00	PIPE
1031.439	2811.595	1.376	2812.972	2.50	.90	.01	2812.98	.00	.52	2.49	2.500	.000	.00	0 .0
.740	.0673					.0001	.00	1.38	.15	.26	.013	.00	.00	PIPE
1032.180	2811.645	1.325	2812.970	2.50	.95	.01	2812.98	.00	.52	2.50	2.500	.000	.00	0 .0
.724	.0673					.0001	.00	1.33	.16	.26	.013	.00	.00	PIPE
1032.904	2811.694	1.275	2812.969	2.50	.99	.02	2812.98	.00	.52	2.50	2.500	.000	.00	0 .0
.677	.0673					.0001	.00	1.28	.17	.26	.013	.00	.00	PIPE
1033.581	2811.740	1.228	2812.968	2.50	1.04	.02	2812.98	.00	.52	2.50	2.500	.000	.00	0 .0

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.630 .0673 .0002 .00 1.23 .19 .26 .013 .00 .00 PIPE
1034.211 2811.782 1.184 2812.966 2.50 1.09 .02 2812.98 .00 .52 2.50 2.500 .000 .00 0 .0
.613 .0673 .0002 .00 1.18 .20 .26 .013 .00 .00 PIPE
^ FILE: LAT3.WSW W S P G W - CIVILDESIGN Version 14.11 PAGE 3

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Program Package Serial Number: 7370
WATER SURFACE PROFILE LISTING Date: 4-10-2025 Time:12:58:24

PUBLIC STORAGE - SUMMERLIN PHASE II
PSTORAGE LATERAL 3
KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM STA: 1100 - CROSSINGS PH

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Width	Top Dia.-FT	Height/ or I.D.	Base Wt	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type	Ch
1034.824	2811.823	1.141	2812.964	2.50	1.15	.02	2812.98	.00	.52	2.49	2.500	.000	.00	0	.0
.581	.0673					.0002	.00	1.14	.22	.26	.013	.00	.00	PIPE	
1035.405	2811.862	1.100	2812.962	2.50	1.20	.02	2812.98	.00	.52	2.48	2.500	.000	.00	0	.0
.548	.0673					.0002	.00	1.10	.23	.26	.013	.00	.00	PIPE	
1035.954	2811.899	1.061	2812.960	2.50	1.26	.02	2812.98	.00	.52	2.47	2.500	.000	.00	0	.0
.515	.0673					.0003	.00	1.06	.25	.26	.013	.00	.00	PIPE	
1036.469	2811.934	1.024	2812.958	2.50	1.32	.03	2812.99	.00	.52	2.46	2.500	.000	.00	0	.0
.497	.0673					.0003	.00	1.02	.27	.26	.013	.00	.00	PIPE	
1036.966	2811.967	.988	2812.955	2.50	1.39	.03	2812.99	.00	.52	2.44	2.500	.000	.00	0	.0
.478	.0673					.0004	.00	.99	.28	.26	.013	.00	.00	PIPE	
1037.445	2812.000	.953	2812.953	2.50	1.45	.03	2812.99	.00	.52	2.43	2.500	.000	.00	0	.0
.444	.0673					.0004	.00	.95	.30	.26	.013	.00	.00	PIPE	
1037.889	2812.029	.920	2812.949	2.50	1.52	.04	2812.99	.00	.52	2.41	2.500	.000	.00	0	.0
.425	.0673					.0005	.00	.92	.33	.26	.013	.00	.00	PIPE	
1038.314	2812.058	.888	2812.946	2.50	1.60	.04	2812.99	.00	.52	2.39	2.500	.000	.00	0	.0
.390	.0673					.0005	.00	.89	.35	.26	.013	.00	.00	PIPE	
1038.704	2812.084	.858	2812.942	2.50	1.68	.04	2812.99	.00	.52	2.37	2.500	.000	.00	0	.0
.385	.0673					.0006	.00	.86	.37	.26	.013	.00	.00	PIPE	

^ FILE: LAT3.WSW W S P G W - CIVILDESIGN Version 14.11 PAGE 4
Program Package Serial Number: 7370
WATER SURFACE PROFILE LISTING Date: 4-10-2025 Time:12:58:24

PUBLIC STORAGE - SUMMERLIN PHASE II
PSTORAGE LATERAL 3
KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM STA: 1100 - CROSSINGS PH

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Width	Top Dia.-FT	Height/ or I.D.	Base Wt	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type	Ch
1039.089	2812.110	.828	2812.938	2.50	1.76	.05	2812.99	.00	.52	2.35	2.500	.000	.00	0	.0
.348	.0673					.0007	.00	.83	.40	.26	.013	.00	.00	PIPE	
1039.437	2812.133	.800	2812.933	2.50	1.84	.05	2812.99	.00	.52	2.33	2.500	.000	.00	0	.0
.327	.0673					.0008	.00	.80	.43	.26	.013	.00	.00	PIPE	
1039.764	2812.155	.773	2812.928	2.50	1.93	.06	2812.99	.00	.52	2.31	2.500	.000	.00	0	.0
.304	.0673					.0009	.00	.77	.46	.26	.013	.00	.00	PIPE	
1040.068	2812.176	.747	2812.923	2.50	2.03	.06	2812.99	.00	.52	2.29	2.500	.000	.00	0	.0
.281	.0673					.0011	.00	.75	.49	.26	.013	.00	.00	PIPE	
1040.349	2812.195	.722	2812.917	2.50	2.13	.07	2812.99	.00	.52	2.27	2.500	.000	.00	0	.0
.051	.0673					.0012	.00	.72	.52	.26	.013	.00	.00	PIPE	
1040.400	2812.198	.697	2812.895	2.50	2.23	.08	2812.97	.00	.52	2.24	2.500	.000	.00	0	.0
HYDRAULIC JUMP															
1040.400	2812.198	.358	2812.556	2.50	5.79	.52	2813.08	.00	.52	1.75	2.500	.000	.00	0	.0

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      .655 | .0673 | | | | | | | | | | | | | | | | | | | | | | | | | |
1041.055 | 2812.243 | .370 | 2812.613 | 2.50 | 5.52 | .47 | 2813.09 | .00 | .52 | 1.78 | 2.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .599 | .0673 | | | | | | | | | | | | | | | | | | | | | | | | | |
1041.654 | 2812.283 | .382 | 2812.665 | 2.50 | 5.26 | .43 | 2813.09 | .00 | .52 | 1.80 | 2.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .486 | .0673 | | | | | | | | | | | | | | | | | | | | | | | | | |
^ FILE: LAT3.WSW
      W S P G W - CIVILDESIGN Version 14.11
      Program Package Serial Number: 7370
      WATER SURFACE PROFILE LISTING
      PUBLIC STORAGE - SUMMERLIN PHASE II
      PSTORAGE LATERAL 3
      KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM STA: 1100 - CROSSINGS PH)
      Date: 4-10-2025 Time:12:58:24
      PAGE 5

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Station | Invert | Depth | Water | Q | Vel | Vel | Energy | Super | Critical | Flow Top | Height/ | Base Wt | | No Wth
      | Elev | (FT) | Elev | (CFS) | (FPS) | Head | Grd.El. | Elev | Depth | Width | Dia.-FT | or I.D. | ZL | Prs/Pip
L/Elem | Ch Slope | | | | | | | | | | | | | | | |
*****
1042.139 | 2812.316 | .395 | 2812.711 | 2.50 | 5.02 | .39 | 2813.10 | .00 | .52 | 1.82 | 2.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .406 | .0673 | | | | | | | | | | | | | | | | | | | | | | | | | |
1042.546 | 2812.343 | .408 | 2812.751 | 2.50 | 4.78 | .36 | 2813.11 | .00 | .52 | 1.85 | 2.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .321 | .0673 | | | | | | | | | | | | | | | | | | | | | | | | | |
1042.867 | 2812.365 | .422 | 2812.787 | 2.50 | 4.56 | .32 | 2813.11 | .00 | .52 | 1.87 | 2.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .259 | .0673 | | | | | | | | | | | | | | | | | | | | | | | | | |
1043.126 | 2812.382 | .436 | 2812.819 | 2.50 | 5.85 | .53 | 2813.35 | .00 | .60 | 1.36 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .189 | .0386 | | | | | | | | | | | | | | | | | | | | | | | | | |
1043.315 | 2812.390 | .438 | 2812.828 | 2.50 | 5.81 | .52 | 2813.35 | .00 | .60 | 1.36 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      1.357 | .0386 | | | | | | | | | | | | | | | | | | | | | | | | | |
1044.672 | 2812.442 | .454 | 2812.896 | 2.50 | 5.54 | .48 | 2813.37 | .00 | .60 | 1.38 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      1.123 | .0386 | | | | | | | | | | | | | | | | | | | | | | | | | |
1045.795 | 2812.485 | .469 | 2812.954 | 2.50 | 5.28 | .43 | 2813.39 | .00 | .60 | 1.39 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .832 | .0386 | | | | | | | | | | | | | | | | | | | | | | | | | |
1046.627 | 2812.517 | .486 | 2813.003 | 2.50 | 5.03 | .39 | 2813.40 | .00 | .60 | 1.40 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .663 | .0386 | | | | | | | | | | | | | | | | | | | | | | | | | |
1047.290 | 2812.543 | .503 | 2813.046 | 2.50 | 4.80 | .36 | 2813.40 | .00 | .60 | 1.42 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .491 | .0386 | | | | | | | | | | | | | | | | | | | | | | | | | |
^ FILE: LAT3.WSW
      W S P G W - CIVILDESIGN Version 14.11
      Program Package Serial Number: 7370
      WATER SURFACE PROFILE LISTING
      PUBLIC STORAGE - SUMMERLIN PHASE II
      PSTORAGE LATERAL 3
      KHA JOB# 192016000 BY:KH (REFERENCED HGL FROM STA: 1100 - CROSSINGS PH)
      Date: 4-10-2025 Time:12:58:24
      PAGE 6

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*****
Station | Invert | Depth | Water | Q | Vel | Vel | Energy | Super | Critical | Flow Top | Height/ | Base Wt | | No Wth
      | Elev | (FT) | Elev | (CFS) | (FPS) | Head | Grd.El. | Elev | Depth | Width | Dia.-FT | or I.D. | ZL | Prs/Pip
L/Elem | Ch Slope | | | | | | | | | | | | | | | | | | | | | | | | | |
*****
1047.781 | 2812.562 | .521 | 2813.083 | 2.50 | 4.58 | .33 | 2813.41 | .00 | .60 | 1.43 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .344 | .0386 | | | | | | | | | | | | | | | | | | | | | | | | | |
1048.126 | 2812.575 | .540 | 2813.115 | 2.50 | 4.36 | .30 | 2813.41 | .00 | .60 | 1.44 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      2.180 | .0101 | | | | | | | | | | | | | | | | | | | | | | | | | |
1050.306 | 2812.597 | .556 | 2813.153 | 2.50 | 4.19 | .27 | 2813.43 | .00 | .60 | 1.45 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      1.208 | .0101 | | | | | | | | | | | | | | | | | | | | | | | | | |
1051.515 | 2812.609 | .576 | 2813.185 | 2.50 | 3.99 | .25 | 2813.43 | .00 | .60 | 1.46 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      .190 | .0101 | | | | | | | | | | | | | | | | | | | | | | | | | |
1051.705 | 2812.611 | .599 | 2813.210 | 2.50 | 3.80 | .22 | 2813.43 | .00 | .60 | 1.47 | 1.500 | .000 | .00 | 0 | .0
      -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|- -|-
      ^

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