

Storm Drainage Calculations

PRESERVE AT JONES DAIRY CENTRAL
Rolesville, North Carolina

September 16, 2022
Revised December 12, 2022
Revised January 24, 2023
Revised May 3, 2023
Revised January 19, 2024
Revised March 1, 2024



Prepared By:

The Nau Company, PLLC
PO Box 810
Rolesville, North Carolina, 27571
(919) 625-3090
tnau@thenauco.com
NCBELS License # P-0751

INTRODUCTION

This report presents the storm drainage design for the proposed improvements at the Preserve at Jones Dairy North project located on parcels bounded by Jones Dairy Road and Averette Road in Rolesville, North Carolina.

BACKGROUND

The Preserve at Jones Dairy Central project is comprised of approximately 88.6 acres of land that is currently undeveloped. At full build-out, the proposed subdivision will consist of 260 single family lots and 179 townhome units. Water and sewer services will be provided by the City of Raleigh. The proposed subdivision will have two stormwater control measures (SCMs) that will meet Town and State requirements for stormwater quality. All roads will be Town maintained roads. The proposed roads will utilize storm sewer piping to convey runoff to the SCM.

METHODOLOGY

General

All calculations were performed in accordance with NCDOT requirements including those in the Guidelines for Drainage Studies (1999 Edition).

Runoff

Peak flow runoff rates were calculated using the Rational Formula. Rational runoff coefficients were determined for each inlet based on generalized land use conditions encountered for this project. A minimum time of concentration equal to 10 minutes was used for each inlet due to the relatively small drainage area for each inlet. Rainfall intensities were based on the time of concentration to the inlet.

Storm Drainage Piping

Storm sewer pipes were designed for the 10-year storm using Hydrology Studio/Stormwater Studio. The primary computational methodologies by the software are methods described in FHWA HEC-22. Runoff to each inlet was determined by the rational method. The minimum pipe size for this project is 15 inches.

Storm Drainage Calculations

March 1, 2024

Preserve at Jones Dairy Central

Inlets and Gutter Spread

Gutter spread for this project was calculated by Hydrology Studio/Stormwater Studio which follows the methodology of FHWA HEC-22. The 4 inch per hour storm was used to calculate the runoff to each inlet. Inlet data used in the software was based on NCDOT frames/grates/hoods shown in NCDOT detail 840.03. The desirable gutter spread was limited to one half of a travel lane.

Pipe Hydraulic Grade Line

The hydraulic grade line (HGL) for this project was calculated by Hydrology Studio/Stormwater Studio which uses the energy-based Standard Step method. The storm systems were designed to maintain the HGL within the pipe for the 10-year storm.

APPENDICES

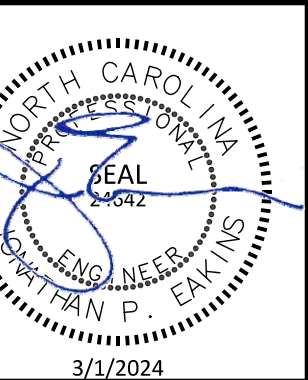
Appendix A – Drainage Area Map

Appendix B – Storm Sewer and Runoff Calculations

Appendix C – Storm Sewer HGL Calculations

Appendix D – Storm Sewer Gutter Spread Calculations

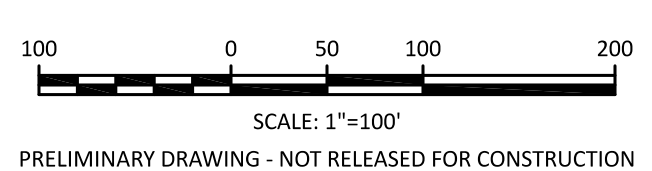
APPENDIX A – DRAINAGE AREA MAPS



PROJECT NO:	---
DESIGN BY:	JPE
DRAWN BY:	JPE
SCALE:	1"=200'
DATE:	2024-01-19
SHEET NO:	SD1.1



14.) Revise DA for DI-317 to DI-315 to match the updated design condition.



DRIVE
 PUBLIC R/W

AVERETTE ROAD - N.C.S.R. 1945
 (60' PUBLIC R/W)

APPENDIX B – STORM SEWER AND RUNOFF CALCULATIONS

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
101 TO 100	50.86	0.070	54.968	0.80	0.06	34.86	5.0	11.04	5.54	193.00	242.20	11.04	66	0.52	388.18	387.92	391.99	391.70	399.63	399.00	1
102 TO 101	33.94	0.080	28.822	0.80	0.06	17.75	5.0	10.97	5.55	98.51	101.66	9.08	48	0.50	389.85	389.68	393.06	392.91	399.63	399.63	2
103 TO 102	47.52	0.180	14.772	0.70	0.13	9.92	5.0	10.91	5.56	55.18	142.25	9.35	42	2.00	391.40	390.45	393.67	392.35	398.55	399.63	3
104 TO 103	50.84	0.170	14.202	0.70	0.12	9.52	5.0	10.86	5.57	53.05	140.93	11.34	36	4.47	394.17	391.90	396.49	393.52	399.27	398.55	4
105 TO 104	89.94	0.250	14.032	0.70	0.18	9.40	5.0	10.71	5.60	52.66	66.72	9.36	36	1.00	395.17	394.27	397.48	396.42	401.19	399.27	5
106 TO 105	34.00	0.360	13.782	0.70	0.25	9.23	5.0	10.66	5.61	51.78	66.69	9.10	36	1.00	395.61	395.27	397.90	397.48	401.19	401.19	6
107 TO 106	145.41	0.140	13.422	0.70	0.10	8.98	5.0	10.45	5.65	50.74	81.66	9.92	36	1.50	397.89	395.71	400.16	397.57	404.22	401.19	7
108 TO 107	74.23	0.320	12.612	0.70	0.22	8.41	5.0	10.32	5.68	47.75	66.59	8.94	36	1.00	399.59	398.85	401.79	400.90	406.08	404.22	8
109 TO 108	184.76	0.300	12.292	0.07	0.02	8.19	5.0	10.00	5.74	47.00	66.74	7.92	36	1.00	401.54	399.69	403.73	402.25	411.62	406.08	9
110 TO 109	34.00	0.590	11.992	0.70	0.41	8.17	5.0	9.95	5.75	46.97	66.69	7.96	36	1.00	401.98	401.64	404.16	404.17	411.62	411.62	10
111 TO 110	90.18	0.100	11.402	0.70	0.07	7.75	5.0	9.79	5.79	44.85	66.63	8.76	36	1.00	402.98	402.08	405.11	404.04	414.50	426.00	11
112 TO 111	105.17	0.100	11.302	0.70	0.07	7.68	5.0	9.61	5.82	44.74	66.64	8.80	36	1.00	404.13	403.08	406.26	405.02	418.20	414.50	12
113 TO 112	216.59	0.001	10.902	0.80	0.00	7.40	5.0	9.23	5.91	43.72	63.28	7.58	36	0.90	406.18	404.23	408.29	406.74	419.06	418.20	13
114 TO 113	63.55	0.100	10.901	0.70	0.07	7.40	5.0	9.12	5.93	43.90	66.41	7.66	36	0.99	406.91	406.28	409.02	408.74	419.05	419.06	14
115 TO 114	111.55	0.001	10.431	0.80	0.00	7.07	5.0	8.93	5.97	42.25	66.83	7.39	36	1.00	408.13	407.01	410.20	409.53	422.70	419.05	15
116 TO 115	58.94	0.140	0.140	0.70	0.10	0.10	5.0	5.00	7.04	0.69	6.46	2.96	15	1.00	416.70	416.11	417.03	416.39	425.37	422.70	16
117 TO 115	117.30	0.120	10.290	0.70	0.08	6.97	5.0	8.72	6.02	41.98	66.61	7.45	36	1.00	409.40	408.23	411.47	410.68	422.30	422.70	17
118 TO 117	100.00	0.110	8.810	0.70	0.08	6.00	5.0	8.55	6.06	36.36	41.01	8.81	30	1.00	410.90	409.90	412.92	411.81	421.30	422.30	18
119 TO 118	29.33	0.120	8.700	0.70	0.08	5.92	5.0	8.49	6.07	35.97	40.78	8.15	30	0.99	411.29	411.00	413.30	413.22	421.16	421.30	19
120 TO 119	46.57	0.270	8.580	0.70	0.19	5.84	5.0	8.41	6.09	35.57	41.20	8.64	30	1.01	411.86	411.39	413.85	413.31	420.29	421.16	20
121 TO 120	26.00	0.250	6.950	0.70	0.18	4.70	5.0	8.36	6.10	28.68	41.01	5.97	30	1.00	412.22	411.96	414.51	414.44	420.29	420.29	21
122 TO 121	52.63	0.140	6.700	0.70	0.10	4.52	5.0	8.25	6.13	27.72	37.07	7.62	30	0.82	412.75	412.32	414.52	414.03	420.63	420.29	22

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
123 TO 122	92.66	0.200	6.460	0.70	0.14	4.36	5.0	8.08	6.17	26.88	41.09	7.82	30	1.00	413.78	412.85	415.51	414.43	421.15	420.63	23
124 TO 123	87.13	0.170	3.750	0.70	0.12	2.55	5.0	7.89	6.22	15.86	22.60	7.03	24	1.00	415.15	414.28	416.56	415.57	422.20	421.15	24
125 TO 124	67.88	0.110	3.580	0.70	0.08	2.43	5.0	7.74	6.25	15.21	22.64	6.04	24	1.00	415.93	415.25	417.31	416.89	423.02	422.20	25
126 TO 125	90.79	0.190	1.390	0.70	0.13	0.97	5.0	5.95	6.74	6.56	12.84	7.90	15	3.95	420.27	416.68	421.29	417.35	424.12	423.02	26
127 TO 126	153.04	0.230	1.200	0.70	0.16	0.84	5.0	5.55	6.86	5.76	6.96	5.39	15	1.16	422.15	420.37	423.11	421.46	426.00	424.12	27
128 TO 127	150.00	0.330	0.670	0.70	0.23	0.47	5.0	5.10	7.00	3.28	6.95	3.56	15	1.16	423.99	422.25	424.72	423.50	428.01	426.00	28
129 TO 128	26.94	0.340	0.340	0.70	0.24	0.24	5.0	5.00	7.04	1.67	6.46	2.41	15	1.00	424.36	424.09	424.94	424.97	428.11	428.01	29
130 TO 127	26.31	0.300	0.300	0.70	0.21	0.21	5.0	5.00	7.04	1.48	6.42	1.61	15	0.99	422.81	422.55	423.58	423.59	426.06	426.00	30
131 TO 125	32.50	0.590	2.080	0.70	0.41	1.38	5.0	7.66	6.28	8.67	10.42	6.21	18	0.98	419.67	419.35	420.79	420.44	423.24	423.02	31
132 TO 131	135.02	0.330	1.490	0.65	0.21	0.97	5.0	7.18	6.40	6.20	7.45	4.01	18	0.50	420.45	419.77	421.56	421.17	425.70	423.24	32
133 TO 132	69.11	0.210	1.160	0.65	0.14	0.75	5.0	6.91	6.47	4.88	4.60	4.22	15	0.51	421.05	420.70	422.17	421.82	424.30	425.70	33
134 TO 133	217.06	0.410	0.950	0.65	0.27	0.62	5.0	6.17	6.68	4.12	5.54	4.91	15	0.74	422.75	421.15	423.56	421.95	426.30	424.30	34
135 TO 134	267.22	0.540	0.540	0.65	0.35	0.35	5.0	5.00	7.04	2.47	4.57	4.00	15	0.50	424.19	422.85	424.82	423.48	427.44	426.30	35
136 TO 123	26.00	0.660	0.660	0.70	0.46	0.46	5.0	5.00	7.04	3.25	6.46	4.64	15	1.00	417.40	417.14	418.12	417.81	421.15	421.15	36
137 TO 123	55.85	0.500	1.850	0.65	0.33	1.20	5.0	6.05	6.71	8.07	20.94	7.70	18	3.97	417.00	414.78	418.08	415.51	420.60	421.15	37
138 TO 137	200.00	0.700	1.350	0.65	0.46	0.88	5.0	5.56	6.86	6.02	7.50	6.26	15	1.35	420.05	417.35	421.03	418.21	423.40	420.60	38
139 TO 138	190.68	0.650	0.650	0.65	0.42	0.42	5.0	5.00	7.04	2.97	7.36	3.46	15	1.30	422.85	420.37	423.54	421.45	426.10	423.40	39
140 TO 122	25.92	0.100	0.100	0.70	0.07	0.07	5.0	5.00	7.04	0.49	6.47	2.63	15	1.00	416.88	416.62	417.16	416.87	420.63	426.00	40
141 TO 120	134.70	0.360	1.360	0.70	0.25	0.95	5.0	5.57	6.86	6.53	18.19	7.08	18	3.00	418.56	414.52	419.54	415.18	422.11	420.29	41
142 TO 141	155.45	0.280	0.750	0.70	0.20	0.53	5.0	5.09	7.01	3.68	6.45	4.26	15	1.00	420.46	418.91	421.23	419.82	424.57	422.11	42
143 TO 142	26.00	0.470	0.470	0.70	0.33	0.33	5.0	5.00	7.04	2.31	6.46	4.13	15	1.00	420.82	420.56	421.43	421.12	424.57	424.57	43
144 TO 141	26.56	0.250	0.250	0.70	0.18	0.18	5.0	5.00	7.04	1.23	6.51	1.32	15	1.02	419.18	418.91	419.96	419.96	422.20	422.11	44

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Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
145 to 117	29.82	0.110	1.360	0.70	0.08	0.89	5.0	5.60	6.85	6.09	14.43	7.54	15	5.00	415.98	414.49	416.97	415.15	422.16	422.30	45
146 to 145	67.27	0.730	1.250	0.65	0.47	0.81	5.0	5.41	6.91	5.61	6.44	5.72	15	1.00	416.75	416.08	417.70	417.00	420.10	422.16	46
147 to 146	150.00	0.520	0.520	0.65	0.34	0.34	5.0	5.00	7.04	2.38	8.90	2.99	15	1.90	419.85	417.00	420.47	418.12	423.10	420.10	47
148 TO 114	26.00	0.370	0.370	0.70	0.26	0.26	5.0	5.00	7.04	1.82	6.45	3.83	15	1.00	415.15	414.89	415.69	415.38	419.05	419.05	48
149 TO 107	34.00	0.670	0.670	0.70	0.47	0.47	5.0	5.00	7.04	3.30	6.46	3.55	15	1.00	400.47	400.13	401.23	401.25	404.22	404.22	49
150 TO 103	34.01	0.390	0.390	0.70	0.27	0.27	5.0	5.00	7.04	1.92	6.45	3.94	15	1.00	395.75	395.41	396.30	395.91	398.55	398.55	50
151 TO 102	127.47	0.190	13.970	0.70	0.13	7.77	5.0	6.66	6.54	50.77	71.29	5.49	42	0.50	391.09	390.45	394.14	393.92	398.62	399.63	51
152 TO 151	116.44	0.040	13.490	0.80	0.03	7.43	5.0	6.41	6.61	49.10	47.07	7.56	36	0.50	392.17	391.59	394.76	394.18	399.75	398.62	52
153 TO 152	70.65	0.220	10.380	0.70	0.15	5.56	5.0	6.24	6.66	36.97	46.94	5.34	36	0.50	392.62	392.27	395.38	395.22	400.98	399.75	53
154 TO 153	100.00	0.350	9.870	0.70	0.25	5.20	5.0	6.01	6.72	34.94	47.16	5.55	36	0.50	393.22	392.72	395.57	395.41	402.62	400.98	54
155 TO 154	155.00	0.090	9.520	0.80	0.07	4.95	5.0	5.66	6.83	33.82	47.31	6.71	36	0.50	394.10	393.32	395.96	395.53	405.17	402.62	55
156 TO 155	155.00	0.350	0.620	0.70	0.25	0.43	5.0	5.16	6.98	3.03	6.46	4.69	15	1.00	402.48	400.93	403.18	401.54	407.72	405.17	56
157 TO 156	39.30	0.270	0.270	0.70	0.19	0.19	5.0	5.00	7.04	1.33	6.43	3.53	15	0.99	404.45	404.06	404.91	404.47	408.20	407.72	57
158 TO 155	139.32	8.600	8.600	0.50	4.30	4.30	5.0	5.00	7.04	30.25	29.07	6.72	30	0.50	395.30	394.60	397.46	396.76	398.50	405.17	58
159 TO 155	26.00	0.210	0.210	0.70	0.15	0.15	5.0	5.00	7.04	1.03	6.46	3.25	15	1.00	401.19	400.93	401.60	401.29	405.17	405.17	59
160 TO 153	26.00	0.290	0.290	0.70	0.20	0.20	5.0	5.00	7.04	1.43	6.45	3.58	15	1.00	398.44	398.18	398.92	398.61	400.98	400.98	60
161 TO 152	27.24	3.070	3.070	0.60	1.84	1.84	5.0	5.00	7.04	12.96	30.71	10.23	18	8.55	396.00	393.67	397.35	394.51	399.50	399.75	61
163 TO 151	26.00	0.290	0.290	0.70	0.20	0.20	5.0	5.00	7.04	1.43	6.46	3.58	15	1.00	394.87	394.61	395.35	395.04	398.62	398.62	62
163 TO 101	97.33	0.170	26.076	0.70	0.12	17.05	5.0	10.04	5.73	97.76	101.92	9.06	48	0.50	390.17	389.68	393.33	392.93	400.64	399.63	63
164 TO 163	34.00	0.330	25.906	0.70	0.23	16.93	5.0	9.98	5.75	97.30	101.58	8.52	48	0.50	390.44	390.27	393.83	393.71	400.64	400.64	64
165 TO 164	21.60	0.340	25.576	0.60	0.20	16.70	5.0	9.94	5.76	96.11	102.51	9.21	48	0.51	390.65	390.54	393.74	393.64	399.00	400.64	65
166 TO 165	132.24	0.001	25.236	0.60	0.00	16.49	5.0	9.69	5.81	95.79	101.48	8.64	48	0.50	391.41	390.75	394.61	394.16	401.00	399.00	66

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

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		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
167 TO 166	63.87	1.850	25.235	0.55	1.02	16.49	5.0	9.57	5.83	96.20	101.67	8.54	48	0.50	391.83	391.51	395.14	394.93	400.00	401.00	67
168 TO 167	78.86	4.540	23.385	0.55	2.50	15.48	5.0	9.42	5.86	90.76	101.02	8.28	48	0.49	392.32	391.93	395.49	395.28	400.50	400.00	68
169 TO 168	302.42	0.010	18.845	0.75	0.01	12.98	5.0	8.84	5.99	77.79	101.50	8.94	48	0.50	393.93	392.42	396.55	395.03	406.00	400.50	69
170 TO 169	123.61	0.350	18.835	0.65	0.23	12.97	5.0	8.60	6.05	78.45	101.73	8.19	48	0.50	394.65	394.03	397.29	397.15	405.34	406.00	70
171 TO 170	51.50	0.001	18.485	0.75	0.00	12.74	5.0	8.50	6.07	77.37	102.07	7.53	48	0.50	395.01	394.75	397.96	397.91	405.87	405.34	71
172 TO 171	65.12	0.400	6.301	0.75	0.30	4.33	5.0	7.63	6.28	27.20	47.48	4.37	36	0.51	396.34	396.01	398.68	398.63	404.91	405.87	72
173 TO 172	121.67	0.340	5.601	0.75	0.26	3.85	5.0	7.32	6.36	24.49	29.04	6.63	30	0.50	397.45	396.84	399.21	398.60	403.73	404.91	73
174 TO 173	86.27	0.340	4.831	0.75	0.26	3.34	5.0	7.10	6.42	21.42	28.96	5.88	30	0.50	397.98	397.55	399.61	399.43	402.68	403.73	74
175 TO 174	60.11	0.360	3.901	0.75	0.27	2.73	5.0	6.93	6.46	17.63	28.97	5.06	30	0.50	398.38	398.08	399.94	399.89	403.41	402.68	75
176 TO 175	129.83	0.410	3.541	0.75	0.31	2.46	5.0	6.56	6.57	16.14	16.00	5.81	24	0.50	399.53	398.88	401.18	400.54	404.81	403.41	76
177 TO 176	168.17	0.001	2.341	0.75	0.00	1.68	5.0	6.06	6.71	11.24	16.62	4.44	24	0.54	400.53	399.62	401.83	401.50	406.09	404.81	77
178 TO 177	20.50	0.170	0.170	0.75	0.13	0.13	5.0	5.00	7.04	0.90	14.47	1.92	15	5.02	402.40	401.37	402.78	402.23	406.82	406.09	78
179 TO 177	36.99	0.540	2.170	0.75	0.41	1.55	5.0	5.94	6.74	10.44	15.78	5.36	24	0.49	400.81	400.63	402.00	401.82	405.92	406.09	79
180 TO 179	150.01	0.470	1.390	0.75	0.35	0.99	5.0	5.60	6.85	6.75	12.86	6.24	18	1.50	403.58	401.33	404.57	402.13	408.24	405.92	80
181 TO 180	152.00	0.470	0.700	0.75	0.35	0.50	5.0	5.27	6.95	3.49	10.34	5.90	15	2.57	407.73	403.83	408.48	404.35	411.94	408.24	81
182 TO 181	62.00	0.230	0.230	0.65	0.15	0.15	5.0	5.00	7.04	1.05	6.46	3.33	15	1.00	408.45	407.83	408.86	408.18	411.70	411.94	82
188 TO 180	62.00	0.220	0.220	0.60	0.13	0.13	5.0	5.00	7.04	0.93	6.46	2.06	15	1.00	404.89	404.27	405.28	405.01	408.14	408.24	83
187 TO 179	22.00	0.240	0.240	0.65	0.16	0.16	5.0	5.00	7.04	1.10	6.46	1.49	15	1.00	401.78	401.56	402.41	402.42	405.50	405.92	84
186 TO 176	22.00	0.790	0.790	0.60	0.47	0.47	5.0	5.00	7.04	3.33	14.85	4.76	18	2.00	400.81	400.37	401.51	400.94	403.06	404.81	85
185 TO 174	22.00	0.590	0.590	0.60	0.35	0.35	5.0	5.00	7.04	2.49	4.57	2.85	15	0.50	399.34	399.23	400.14	400.11	401.83	402.68	86
184 TO 173	62.31	0.430	0.430	0.60	0.26	0.26	5.0	5.00	7.04	1.82	6.44	3.92	15	0.99	400.75	400.13	401.29	400.60	404.00	403.73	87
183 TO 172	29.50	0.300	0.300	0.60	0.18	0.18	5.0	5.00	7.04	1.27	9.13	2.27	15	2.00	398.68	398.09	399.13	398.98	404.04	404.91	88

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
189 TO 171	66.79	0.470	12.183	0.75	0.35	8.41	5.0	8.42	6.09	51.25	94.40	10.05	36	2.00	397.35	396.01	399.63	397.86	406.69	405.87	89
190 TO 189	65.12	0.010	10.963	0.75	0.01	7.57	5.0	8.31	6.12	46.33	66.63	8.81	36	1.00	398.10	397.45	400.27	399.47	407.65	406.69	90
191 TO 190	80.30	0.001	10.893	0.80	0.00	7.53	5.0	8.17	6.15	46.30	66.57	8.86	36	1.00	399.00	398.20	401.17	400.20	408.73	407.65	91
192 TO 191	183.08	0.400	5.321	0.75	0.30	3.71	5.0	6.57	6.56	24.35	50.26	6.07	30	1.50	402.25	399.50	403.90	401.88	411.12	408.73	92
193 TO 192	131.67	0.400	4.491	0.75	0.30	3.13	5.0	6.37	6.62	20.74	62.62	8.38	30	2.33	405.42	402.35	406.94	403.44	412.90	411.12	93
194 TO 193	131.67	0.630	3.761	0.75	0.47	2.62	5.0	6.12	6.69	17.54	25.78	7.67	24	1.30	407.63	405.92	409.11	407.19	414.68	412.90	94
195 TO 194	144.67	0.001	2.701	0.75	0.00	1.87	5.0	5.82	6.78	12.69	25.78	5.11	24	1.30	409.61	407.73	410.87	409.61	416.78	414.68	95
196 TO 195	42.59	0.340	2.700	0.70	0.24	1.87	5.0	5.77	6.80	12.71	50.46	8.24	24	4.98	411.83	409.71	413.09	410.54	417.09	416.78	96
197 TO 196	34.00	1.240	1.980	0.70	0.87	1.39	5.0	5.70	6.81	9.45	14.85	7.05	18	2.00	413.01	412.33	414.18	413.31	417.09	417.09	97
198 TO 197	228.85	0.740	0.740	0.70	0.52	0.52	5.0	5.00	7.04	3.64	6.46	3.98	15	1.00	415.88	413.59	416.64	414.64	421.22	417.09	98
199 TO 196	18.00	0.380	0.380	0.65	0.25	0.25	5.0	5.00	7.04	1.74	6.46	1.75	15	1.00	412.76	412.58	413.62	413.63	416.01	417.09	99
200 TO 194	55.50	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.43	2.21	15	0.99	411.09	410.54	411.29	410.71	414.34	414.68	100
201 TO 194	29.50	0.370	0.370	0.65	0.24	0.24	5.0	5.00	7.04	1.69	6.40	3.77	15	0.98	410.49	410.20	411.01	410.67	413.74	414.68	101
202 TO 193	29.50	0.280	0.280	0.65	0.18	0.18	5.0	5.00	7.04	1.28	6.40	3.46	15	0.98	408.69	408.40	409.14	408.80	411.94	412.90	102
203 TO 193	55.50	0.050	0.050	0.60	0.03	0.03	5.0	5.00	7.04	0.21	6.43	2.10	15	0.99	409.93	409.38	410.11	409.54	413.18	412.90	103
204 TO 192	29.50	0.370	0.370	0.65	0.24	0.24	5.0	5.00	7.04	1.69	6.40	3.77	15	0.98	406.88	406.59	407.40	407.06	410.13	411.12	104
205 TO 192	55.50	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.43	2.21	15	0.99	407.75	407.20	407.95	407.37	411.00	411.12	105
206 TO 191	72.74	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.47	2.23	15	1.00	405.85	405.12	406.05	405.29	409.10	408.73	106
207 TO 191	45.19	0.660	5.511	0.70	0.46	3.79	5.0	8.08	6.17	23.35	40.92	7.29	30	1.00	403.24	402.79	404.86	404.29	408.16	408.73	107
208 TO 207	61.19	0.410	4.851	0.75	0.31	3.32	5.0	7.96	6.20	20.61	22.58	7.75	24	1.00	404.35	403.74	405.96	405.29	409.30	408.16	108
209 TO 208	133.33	0.220	3.321	0.75	0.17	2.34	5.0	7.66	6.27	14.70	22.59	6.89	24	1.00	406.30	404.97	407.66	406.19	415.20	409.30	109
210 TO 209	135.67	0.001	2.961	0.70	0.00	2.09	5.0	7.44	6.33	13.22	34.15	7.75	24	2.28	409.49	406.40	410.78	407.32	416.28	415.20	110

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
211 TO 210	36.06	0.380	0.620	0.75	0.29	0.44	5.0	5.26	6.95	3.07	6.45	3.63	15	1.00	410.60	410.24	411.30	411.23	415.56	416.28	111
212 TO 211	62.00	0.240	0.240	0.65	0.16	0.16	5.0	5.00	7.04	1.10	6.46	3.39	15	1.00	411.32	410.70	411.74	411.06	414.57	415.56	112
213 TO 210	116.24	0.470	2.340	0.75	0.35	1.65	5.0	7.16	6.40	10.54	22.59	6.14	24	1.00	411.95	410.79	413.10	411.80	417.70	416.28	113
213A TO 213	152.00	0.470	1.620	0.75	0.35	1.13	5.0	6.77	6.51	7.36	10.50	5.96	18	1.00	413.97	412.45	415.01	413.40	419.60	417.70	114
214 TO 213A	152.00	0.320	0.890	0.75	0.24	0.62	5.0	6.40	6.61	4.11	14.36	5.57	18	1.87	417.13	414.29	417.90	414.86	421.50	419.60	115
215 TO 214	103.43	0.270	0.270	0.75	0.20	0.20	5.0	5.00	7.04	1.42	9.25	2.53	15	2.05	419.50	417.38	419.98	418.16	423.25	421.50	116
216 TO 214	65.75	0.060	0.300	0.60	0.04	0.18	5.0	6.13	6.69	1.20	6.47	2.29	15	1.00	418.04	417.38	418.48	418.18	421.06	421.50	117
217 TO 216	46.25	0.180	0.240	0.60	0.11	0.14	5.0	5.93	6.75	0.97	6.44	3.23	15	0.99	418.60	418.14	418.99	418.48	421.99	421.06	118
218 TO 217	142.00	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.46	1.34	15	1.00	420.12	418.70	420.32	419.12	423.37	421.99	119
219 TO 213	62.00	0.250	0.250	0.65	0.16	0.16	5.0	5.00	7.04	1.14	6.46	2.17	15	1.00	413.32	412.70	413.75	413.57	416.57	417.70	120
220 TO 209	58.00	0.140	0.140	0.65	0.09	0.09	5.0	5.00	7.04	0.64	6.46	2.89	15	1.00	410.95	410.37	411.27	410.64	414.20	415.20	121
221 TO 208	61.07	1.120	1.120	0.60	0.67	0.67	5.0	5.00	7.04	4.73	9.64	6.15	15	2.23	407.33	405.97	408.20	406.64	410.50	409.30	122
222 TO 190	51.50	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.43	2.21	15	0.99	404.67	404.16	404.87	404.33	407.92	407.65	123
223 TO 189	29.50	0.750	0.750	0.65	0.49	0.49	5.0	5.00	7.04	3.43	6.51	4.74	15	1.02	402.59	402.29	403.33	402.98	405.84	406.69	124
314 TO 112	78.56	0.300	0.300	0.70	0.21	0.21	5.0	5.00	7.04	1.48	6.48	3.72	15	1.01	413.48	412.69	413.97	413.11	417.23	418.20	125
213B TO 213A	62.00	0.260	0.260	0.60	0.16	0.16	5.0	5.00	7.04	1.10	6.46	3.39	15	1.00	415.22	414.60	415.64	414.96	418.47	419.60	126

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
301 TO 300	132.01	0.110	26.025	0.65	0.07	14.90	5.0	10.27	5.69	84.76	101.58	9.04	48	0.50	401.25	400.59	404.05	403.38	411.53	409.00	1
321 TO 302	90.72	0.270	21.235	0.65	0.18	11.89	5.0	10.09	5.72	68.04	101.17	6.30	48	0.50	401.80	401.35	404.84	404.76	421.58	411.53	2
302 TO 301	50.60	0.030	20.965	0.65	0.02	11.71	5.0	9.99	5.75	67.28	100.97	7.43	48	0.49	402.15	401.90	404.74	404.74	413.22	421.58	3
322 TO 302	59.02	0.130	9.882	0.65	0.08	4.77	5.0	7.11	6.42	30.60	29.24	6.76	30	0.51	405.08	404.78	407.25	406.95	413.37	413.22	4
323 TO 322	26.00	0.580	9.752	0.65	0.38	4.68	5.0	7.04	6.43	30.14	29.00	6.60	30	0.50	405.31	405.18	407.50	407.38	413.37	413.37	5
324 TO 323	170.39	0.390	9.172	0.65	0.25	4.31	5.0	6.62	6.55	28.21	28.97	6.47	30	0.50	406.26	405.41	408.27	407.56	415.13	413.37	6
325 TO 324	200.00	0.330	8.672	0.65	0.21	3.98	5.0	6.12	6.69	26.65	29.00	6.68	30	0.50	407.36	406.36	409.24	408.27	417.37	415.13	7
326 TO 325	178.00	0.001	8.112	0.65	0.00	3.62	5.0	5.67	6.83	24.69	29.00	6.57	30	0.50	408.35	407.46	410.10	409.29	419.02	417.37	8
327 TO 326	90.79	0.570	8.111	0.65	0.37	3.62	5.0	5.44	6.90	24.95	28.87	6.36	30	0.50	408.90	408.45	410.70	410.38	418.81	419.02	9
328 TO 327	34.00	0.920	7.541	0.65	0.60	3.25	5.0	5.35	6.92	22.48	29.00	5.97	30	0.50	409.17	409.00	410.91	410.84	418.81	418.81	10
329 TO 328	24.75	0.001	6.621	0.65	0.00	2.65	5.0	5.29	6.94	18.39	19.82	7.16	24	0.77	409.86	409.67	411.38	411.19	419.11	418.81	11
330 TO 329	125.00	6.620	6.620	0.40	2.65	2.65	5.0	5.00	7.04	18.63	19.61	7.23	24	0.75	410.90	409.96	412.43	411.49	415.40	419.11	12
332 TO 325	27.86	0.230	0.230	0.65	0.15	0.15	5.0	5.00	7.04	1.05	6.46	3.27	15	1.00	413.73	413.45	414.14	413.81	417.48	417.37	13
331 TO 324	27.86	0.110	0.110	0.65	0.07	0.07	5.0	5.00	7.04	0.50	6.46	2.65	15	1.00	411.49	411.21	411.77	411.46	415.24	415.13	14
303 TO 302	194.20	0.001	11.053	0.65	0.00	6.92	5.0	9.54	5.84	40.42	47.13	7.50	36	0.50	404.12	403.15	406.26	405.29	415.40	413.22	15
304 TO 303	99.50	0.060	9.312	0.65	0.04	5.88	5.0	9.31	5.89	34.61	47.28	6.24	36	0.50	404.72	404.22	406.76	406.62	414.57	415.40	16
305 TO 304	180.50	0.190	4.851	0.65	0.12	3.04	5.0	7.12	6.42	19.51	28.96	6.48	30	0.50	406.12	405.22	407.60	406.69	412.58	414.57	17
306 TO 305	119.54	0.030	3.500	0.65	0.02	2.19	5.0	6.77	6.51	14.25	16.02	5.76	24	0.50	407.22	406.62	408.69	408.09	413.40	412.58	18
307 TO 306	51.61	0.170	3.470	0.65	0.11	2.17	5.0	6.62	6.55	14.21	16.05	5.55	24	0.50	407.58	407.32	409.07	408.87	413.39	413.40	19
308 TO 307	26.00	0.210	3.300	0.65	0.14	2.06	5.0	6.54	6.57	13.53	15.99	5.16	24	0.50	407.81	407.68	409.34	409.27	413.39	413.39	20
309 TO 308	51.59	0.140	1.990	0.65	0.09	1.29	5.0	6.37	6.62	8.56	16.06	3.19	24	0.50	408.17	407.91	409.66	409.63	414.49	413.39	21
363 TO 309	32.89	0.080	0.080	0.65	0.05	0.05	5.0	5.00	7.04	0.37	6.45	2.42	15	1.00	410.95	410.62	411.19	410.83	414.70	414.49	22

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
310 TO 309	59.19	0.280	1.770	0.65	0.18	1.15	5.0	6.17	6.68	7.68	16.10	3.71	24	0.51	408.57	408.27	409.71	409.68	415.12	414.49	23
312 TO 310	215.27	0.090	1.490	0.65	0.06	0.97	5.0	5.71	6.81	6.60	30.90	6.09	24	1.87	412.69	408.67	413.60	409.32	417.80	415.12	24
364 TO 312	198.16	0.260	0.860	0.65	0.17	0.56	5.0	5.11	7.00	3.91	6.46	5.10	15	1.00	415.42	413.44	416.21	414.15	419.61	417.80	25
365 TO 364	34.00	0.600	0.600	0.65	0.39	0.39	5.0	5.00	7.04	2.74	6.46	3.50	15	1.00	415.86	415.52	416.52	416.44	419.61	419.61	26
313 TO 312	34.00	0.540	0.540	0.65	0.35	0.35	5.0	5.00	7.04	2.47	10.51	4.05	18	1.00	413.78	413.44	414.38	413.97	417.80	417.80	27
360 TO 308	132.52	0.100	1.100	0.65	0.07	0.63	5.0	5.11	7.00	4.41	6.45	5.29	15	1.00	409.88	408.56	410.72	409.33	415.56	413.39	28
361 TO 360	26.00	0.430	0.430	0.65	0.28	0.28	5.0	5.00	7.04	1.97	6.46	3.93	15	1.00	411.81	411.55	412.37	412.06	415.56	415.56	29
362 TO 360	30.82	0.570	0.570	0.50	0.29	0.29	5.0	5.00	7.04	2.01	6.46	2.05	15	1.00	410.25	409.94	411.06	411.07	414.00	415.56	30
356 TO 305	15.62	0.001	0.531	0.65	0.00	0.32	5.0	5.90	6.75	2.15	6.45	2.55	15	1.00	407.41	407.25	408.15	408.17	412.60	412.58	31
358 TO 357	236.10	0.310	0.530	0.60	0.19	0.32	5.0	5.25	6.96	2.21	8.84	4.84	15	1.87	412.65	408.23	413.25	408.66	416.50	412.60	32
359 TO 358	70.25	0.220	0.220	0.60	0.13	0.13	5.0	5.00	7.04	0.93	9.12	2.10	15	1.99	414.15	412.75	414.54	413.45	417.90	416.50	33
355 TO 305	26.00	0.630	0.630	0.65	0.41	0.41	5.0	5.00	7.04	2.88	6.46	4.45	15	1.00	408.83	408.57	409.51	409.20	412.58	412.58	34
338 TO 304	52.19	0.370	4.401	0.65	0.24	2.80	5.0	9.16	5.92	16.57	15.96	5.77	24	0.50	406.11	405.85	407.83	407.57	413.24	414.57	35
339 TO 338	26.00	0.140	4.031	0.65	0.09	2.56	5.0	9.08	5.94	15.19	15.99	5.48	24	0.50	406.34	406.21	407.98	407.88	413.24	413.24	36
340 TO 339	126.16	0.320	3.891	0.65	0.21	2.47	5.0	8.71	6.02	14.85	15.98	5.52	24	0.50	407.07	406.44	408.61	408.10	415.23	413.24	37
341 TO 340	198.66	0.230	3.141	0.65	0.15	1.98	5.0	8.11	6.16	12.20	15.97	5.14	24	0.50	408.16	407.17	409.42	408.81	418.92	415.23	38
342 TO 341	226.14	0.180	2.911	0.65	0.12	1.83	5.0	7.42	6.34	11.59	15.99	5.85	24	0.50	409.39	408.26	410.60	409.46	422.62	418.92	39
343 TO 342	26.00	0.080	2.731	0.65	0.05	1.71	5.0	7.34	6.36	10.89	15.99	4.82	24	0.50	409.62	409.49	410.93	410.89	422.62	422.62	40
343A TO 343	72.59	0.120	2.651	0.65	0.08	1.66	5.0	7.17	6.40	10.63	22.68	5.18	24	1.01	410.45	409.72	411.60	411.07	423.40	422.62	41
344 TO 343	112.21	0.090	1.280	0.65	0.06	0.83	5.0	6.99	6.45	5.37	23.48	7.40	18	5.00	419.30	413.69	420.18	414.21	424.55	423.40	42
345 TO 344	86.80	0.130	1.000	0.65	0.08	0.65	5.0	6.78	6.50	4.23	8.66	5.75	15	1.80	421.11	419.55	421.94	420.20	425.48	424.55	43
346 TO 345	112.74	0.230	0.870	0.65	0.15	0.57	5.0	6.44	6.60	3.73	6.46	5.00	15	1.00	422.34	421.21	423.11	421.91	426.63	425.48	44

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
347 TO 346	200.00	0.170	0.550	0.65	0.11	0.36	5.0	5.75	6.80	2.43	6.46	3.26	15	1.00	424.44	422.44	425.06	423.35	428.64	426.63	45
348 TO 347	150.00	0.220	0.300	0.65	0.14	0.20	5.0	5.15	6.99	1.36	6.46	2.57	15	1.00	426.04	424.54	426.51	425.25	430.15	428.64	46
349 TO 348	26.00	0.080	0.080	0.65	0.05	0.05	5.0	5.00	7.04	0.37	6.46	1.37	15	1.00	426.40	426.14	426.66	426.66	430.15	430.15	47
354 TO 347	26.00	0.080	0.080	0.65	0.05	0.05	5.0	5.00	7.04	0.37	7.49	0.75	15	1.35	424.89	424.54	425.30	425.31	428.64	428.64	48
353 TO 346	26.00	0.090	0.090	0.65	0.06	0.06	5.0	5.00	7.04	0.41	8.40	0.57	15	1.69	422.88	422.44	423.45	423.45	426.63	426.63	49
351 TO 344	73.31	0.190	0.190	0.65	0.12	0.12	5.0	5.00	7.04	0.87	6.13	3.09	15	0.90	420.28	419.62	420.66	419.95	424.39	424.55	50
315 TO 343A	51.04	0.001	1.251	0.65	0.00	0.75	5.0	6.02	6.72	5.05	10.50	5.15	18	1.00	411.46	410.95	412.32	411.73	423.91	423.40	51
316 TO 315	204.81	0.550	1.250	0.60	0.33	0.75	5.0	5.57	6.86	5.14	14.77	6.09	18	1.98	415.61	411.56	416.48	412.19	419.11	423.91	52
317 TO 316	150.00	0.700	0.700	0.60	0.42	0.42	5.0	5.00	7.04	2.96	5.27	4.34	15	0.67	416.86	415.86	417.55	416.53	420.11	419.11	53
350 TO 340	26.00	0.430	0.430	0.65	0.28	0.28	5.0	5.00	7.04	1.97	6.47	3.93	15	1.00	411.48	411.22	412.04	411.73	415.23	415.23	54
333 TO 303	67.00	0.170	1.740	0.60	0.10	1.04	5.0	5.95	6.74	7.04	10.50	5.81	18	1.00	409.04	408.37	410.05	409.31	414.53	415.40	55
334 TO 333	100.00	0.370	1.570	0.60	0.22	0.94	5.0	5.68	6.82	6.43	10.50	5.66	18	1.00	410.14	409.14	411.11	410.02	414.53	414.53	56
335 TO 334	100.00	0.270	1.200	0.60	0.16	0.72	5.0	5.39	6.91	4.98	6.46	5.49	15	1.00	411.39	410.39	412.28	411.23	415.53	414.53	57
336 TO 335	60.09	0.170	0.930	0.60	0.10	0.56	5.0	5.21	6.97	3.89	6.46	5.02	15	1.00	412.09	411.49	412.88	412.21	416.32	415.53	58
337 TO 336	66.97	0.760	0.760	0.60	0.46	0.46	5.0	5.00	7.04	3.21	6.46	4.71	15	1.00	412.86	412.19	413.58	412.84	416.61	416.32	59
371 TO 301	34.85	0.160	4.680	0.65	0.10	2.94	5.0	7.17	6.40	18.85	22.67	7.41	24	1.00	403.57	403.22	405.11	404.70	411.43	411.53	60
366 TO 371	26.00	0.300	4.520	0.65	0.20	2.84	5.0	7.11	6.42	18.23	22.62	7.27	24	1.00	404.33	404.07	405.84	405.54	411.43	411.43	61
318 TO 366	57.36	0.470	1.950	0.60	0.28	1.17	5.0	5.98	6.73	7.88	10.47	5.09	18	0.99	405.40	404.83	406.49	406.33	409.50	411.43	62
319 TO 318	150.00	0.770	1.480	0.60	0.46	0.89	5.0	5.57	6.86	6.09	10.50	5.60	18	1.00	407.00	405.50	407.94	406.34	411.00	409.50	63
320 TO 319	200.00	0.710	0.710	0.60	0.43	0.43	5.0	5.00	7.04	3.00	7.64	3.60	15	1.40	410.05	407.25	410.74	408.23	413.80	411.00	64
367 TO 366	88.52	0.210	2.270	0.65	0.14	1.48	5.0	6.83	6.49	9.58	15.95	5.31	24	0.50	405.88	405.44	407.00	406.56	412.21	411.43	65
368 TO 367	117.23	0.280	1.740	0.65	0.18	1.13	5.0	6.42	6.60	7.47	7.45	4.80	18	0.50	406.97	406.38	408.20	407.61	414.68	412.21	66

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
369 TO 368	328.78	0.660	1.210	0.65	0.43	0.79	5.0	5.23	6.96	5.48	7.42	4.99	18	0.50	408.71	407.07	409.61	407.96	413.07	414.68	67
370 TO 369	73.25	0.270	0.270	0.65	0.18	0.18	5.0	5.00	7.04	1.23	9.48	2.23	15	2.16	410.64	409.06	411.08	409.96	414.39	413.07	68
374 TO 369	26.00	0.280	0.280	0.65	0.18	0.18	5.0	5.00	7.04	1.28	6.46	1.71	15	1.00	409.32	409.06	409.95	409.96	413.07	413.07	69
383 TO 368	26.00	0.250	0.250	0.65	0.16	0.16	5.0	5.00	7.04	1.14	6.47	3.34	15	1.00	410.93	410.67	411.36	411.05	414.68	414.68	70
372 TO 367	26.00	0.320	0.320	0.65	0.21	0.21	5.0	5.00	7.04	1.46	6.45	3.60	15	1.00	408.46	408.20	408.94	408.63	412.21	412.21	71

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Project Name: Enter Project Name...

Stormwater Studio 2022 v 3.0.0.29

12-12-2022

Line ID	Length (ft)	Drng Area		Rational (C)	C x A		Tc		Intensity (in/hr)	Total Q (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
401 TO 400	37.42	0.001	19.141	0.75	0.00	8.12	5.0	15.08	4.87	39.54	23.68	12.62	24	1.10	405.35	404.94	408.00	406.89	409.10	409.00	1
402 TO 401	17.46	0.100	19.140	0.90	0.09	8.11	5.0	15.06	4.88	39.56	16.24	12.59	24	0.52	405.94	405.85	408.54	408.00	409.25	409.10	2
403 TO 402	17.34	0.270	1.840	0.75	0.20	1.14	5.0	5.26	6.95	7.96	7.56	4.50	18	0.52	406.13	406.04	410.79	410.69	408.98	409.25	3
404 TO 403	34.00	0.700	1.570	0.60	0.42	0.94	5.0	5.14	6.99	6.59	7.43	3.73	18	0.50	406.40	406.23	411.02	410.88	408.98	408.98	4
405 TO 404	71.28	0.870	0.870	0.60	0.52	0.52	5.0	5.00	7.04	3.67	19.67	2.08	18	3.51	409.00	406.50	411.25	411.17	412.00	408.98	5
406 TO 402	58.58	17.200	17.200	0.40	6.88	6.88	15.0	15.00	4.88	33.60	47.28	10.70	24	4.37	408.00	405.44	410.52	409.22	412.00	409.25	6

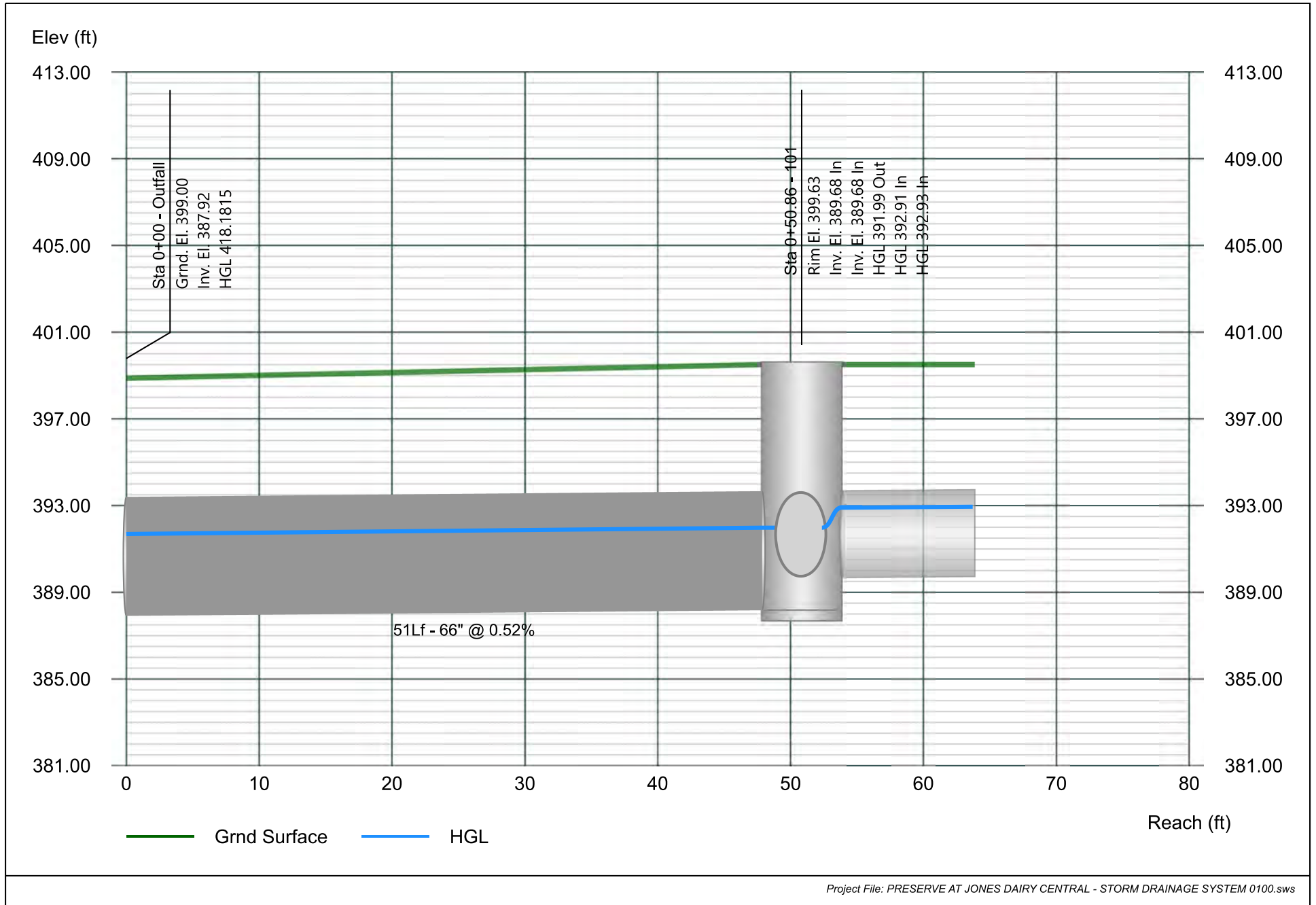
Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0400.sws

APPENDIX C – STORM SEWER HGL CALCULATIONS

10-YEAR HGL

Line 1 - 101 TO 100

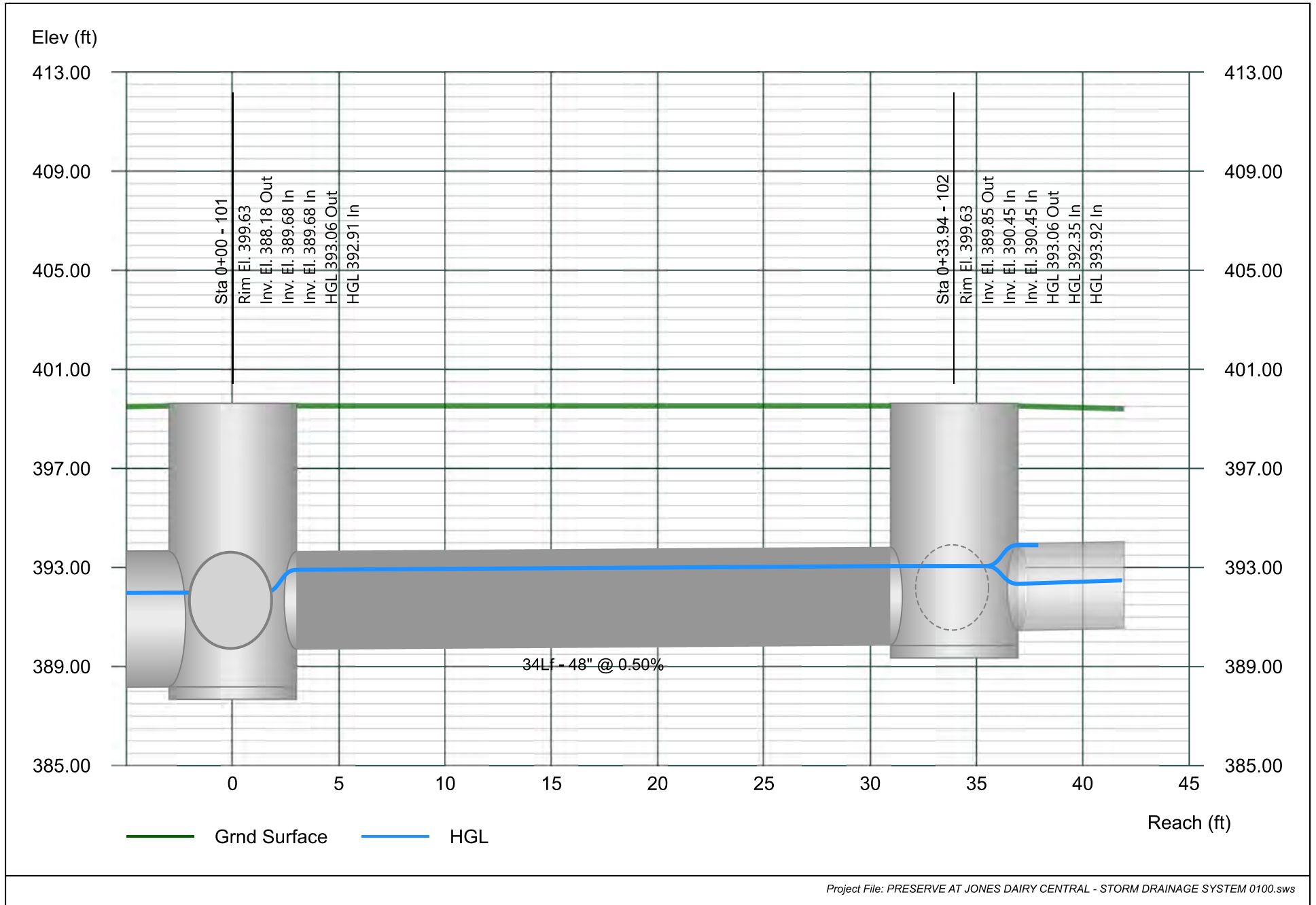


Line 2 - 102 TO 101

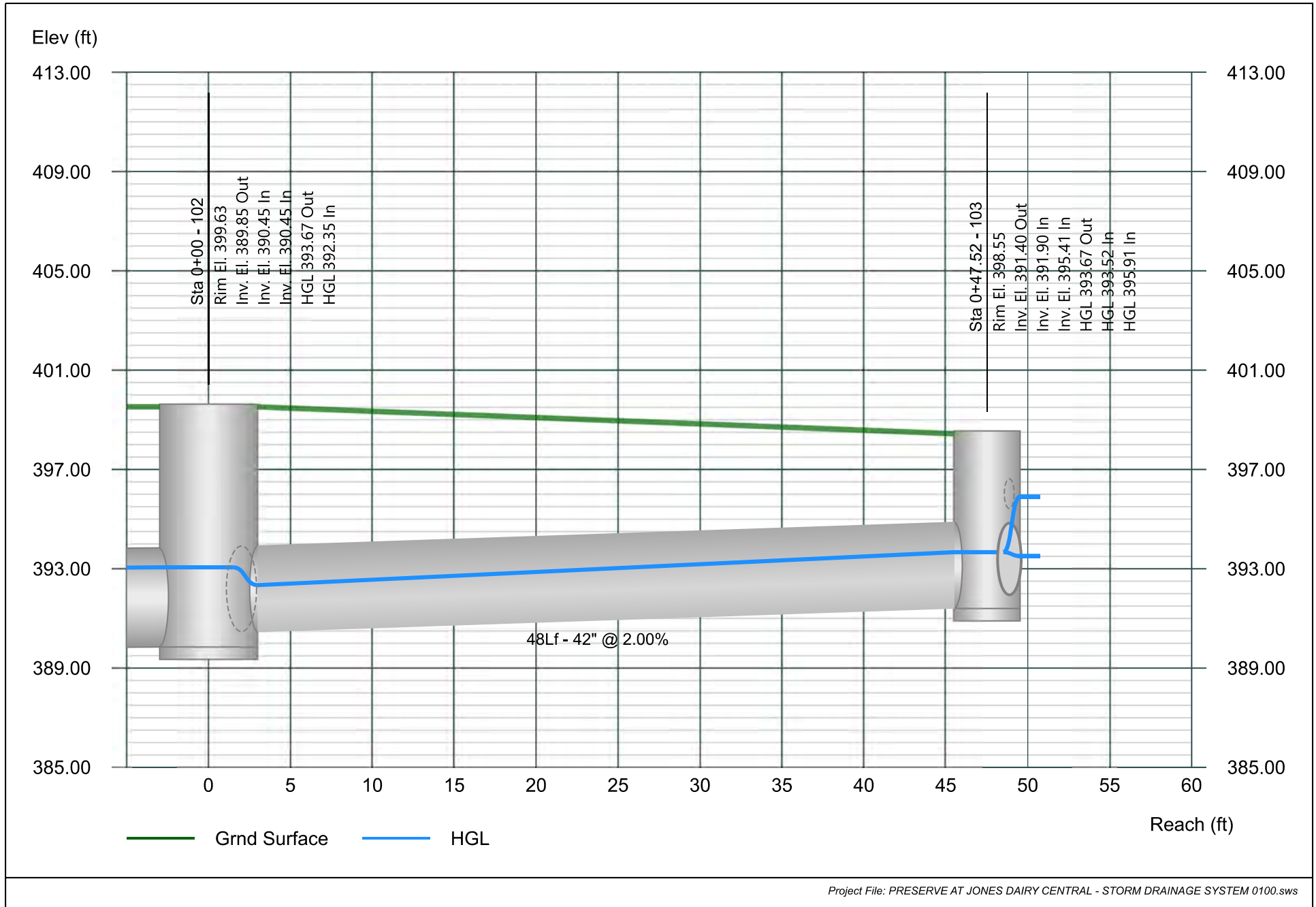
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

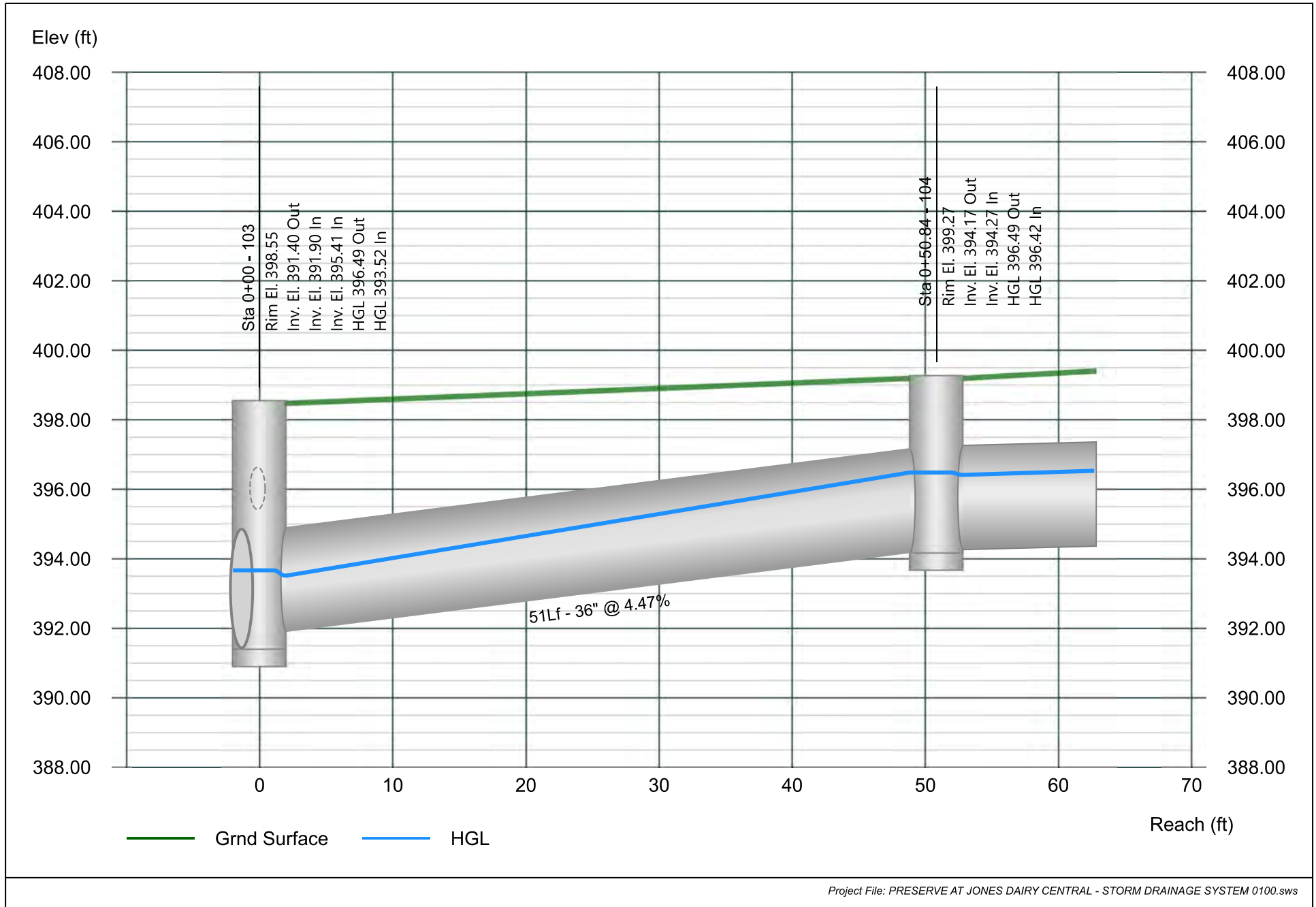
01-19-2024



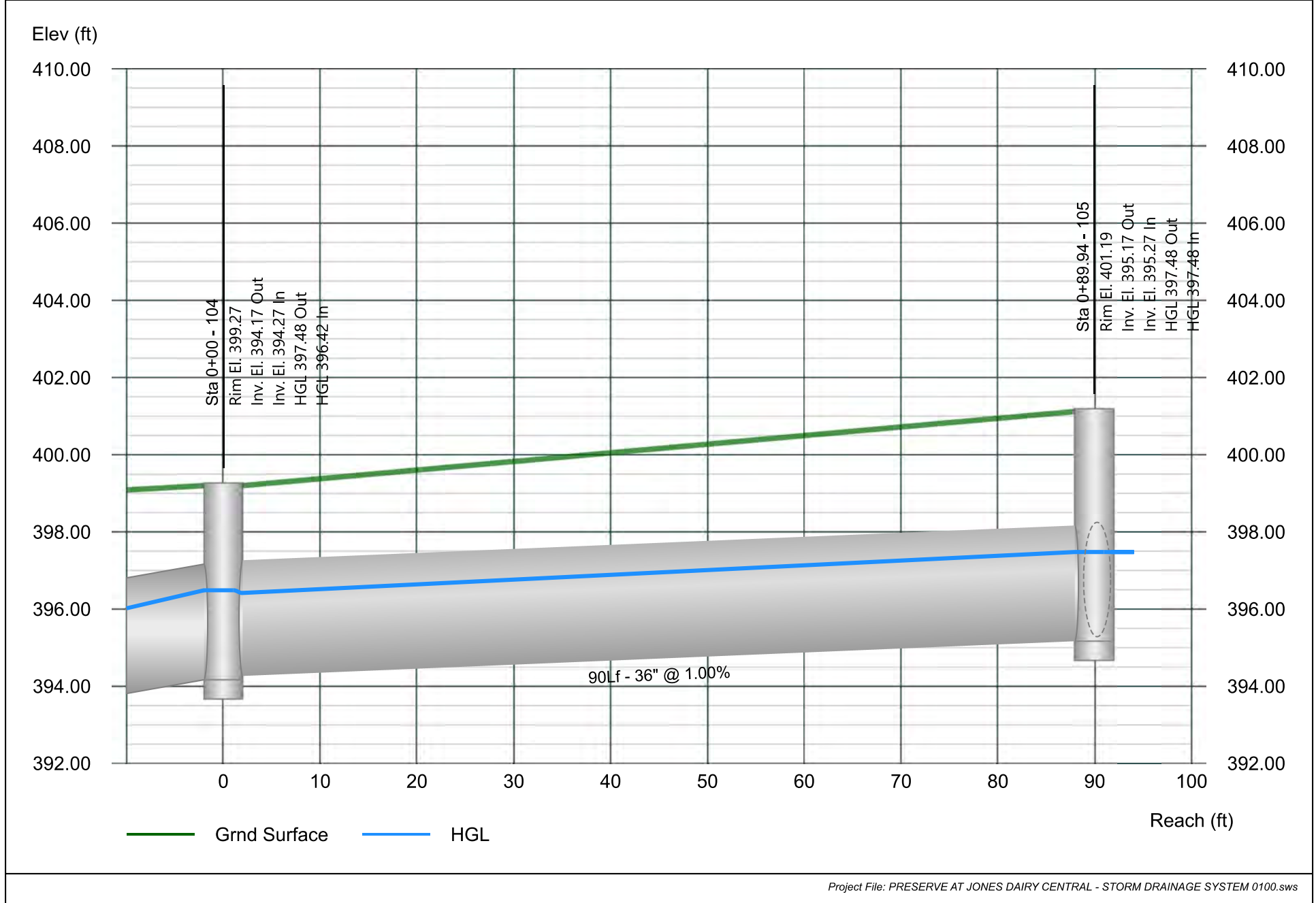
Line 3 - 103 TO 102



Line 4 - 104 TO 103



Line 5 - 105 TO 104

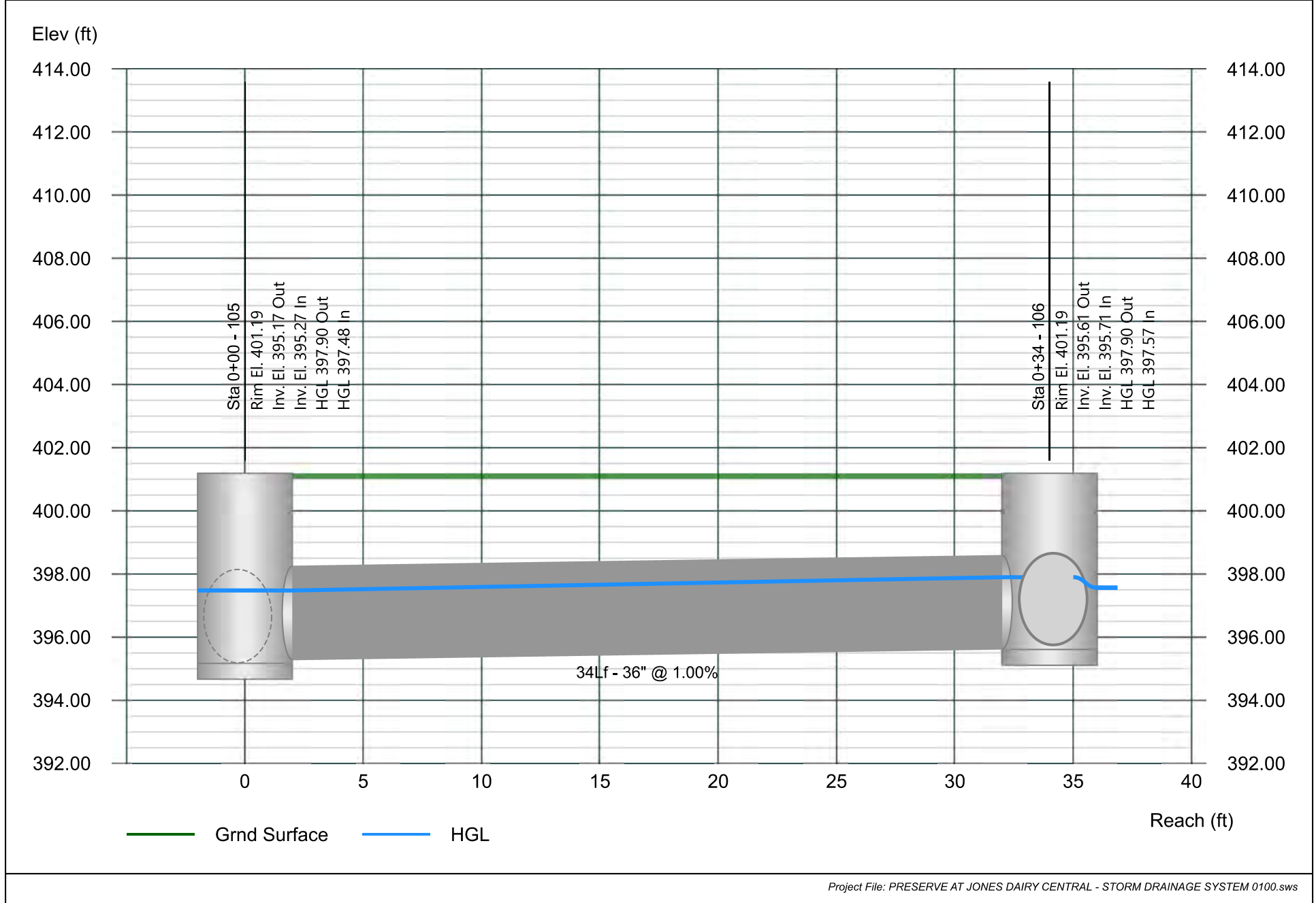


Line 6 - 106 TO 105

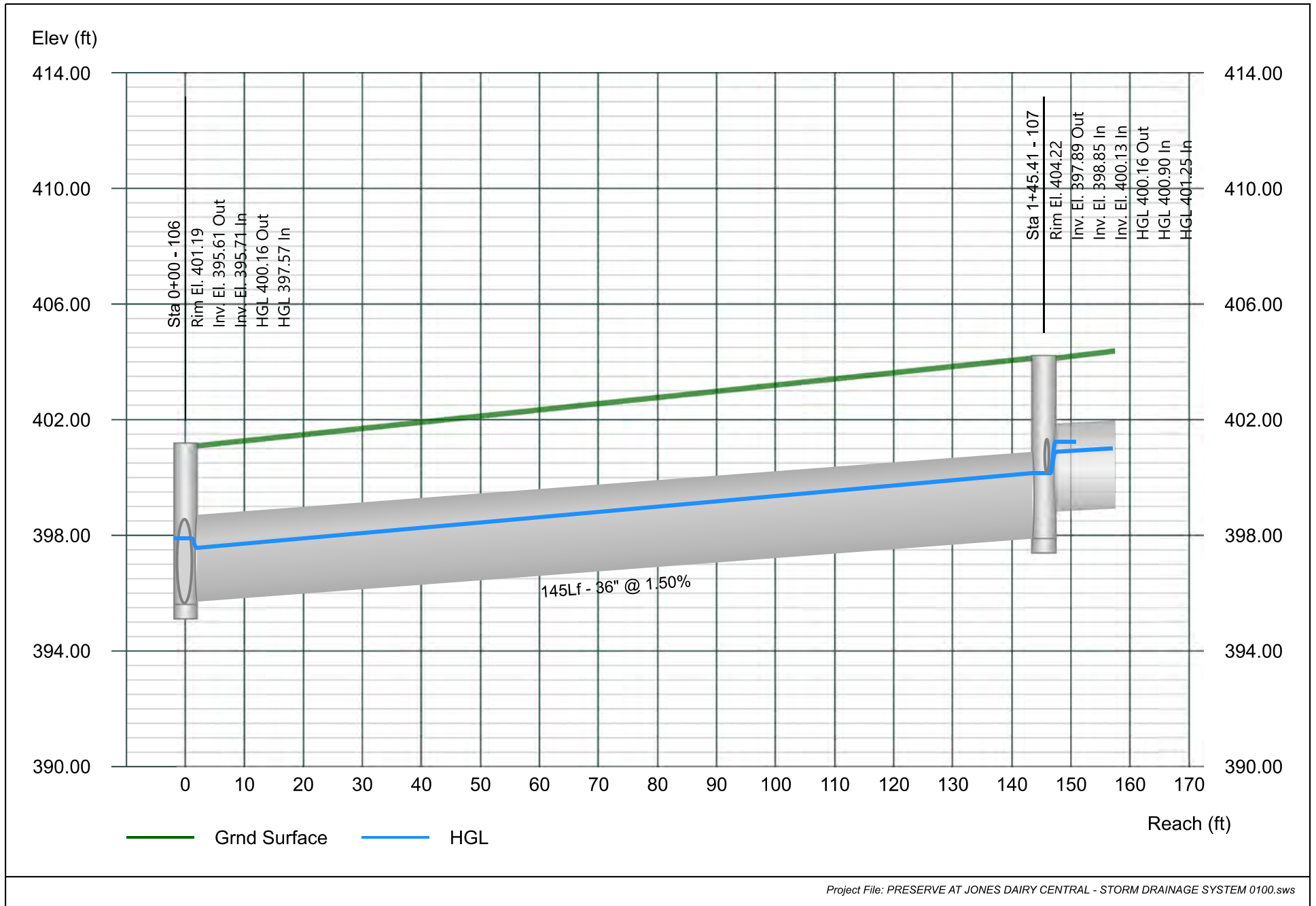
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

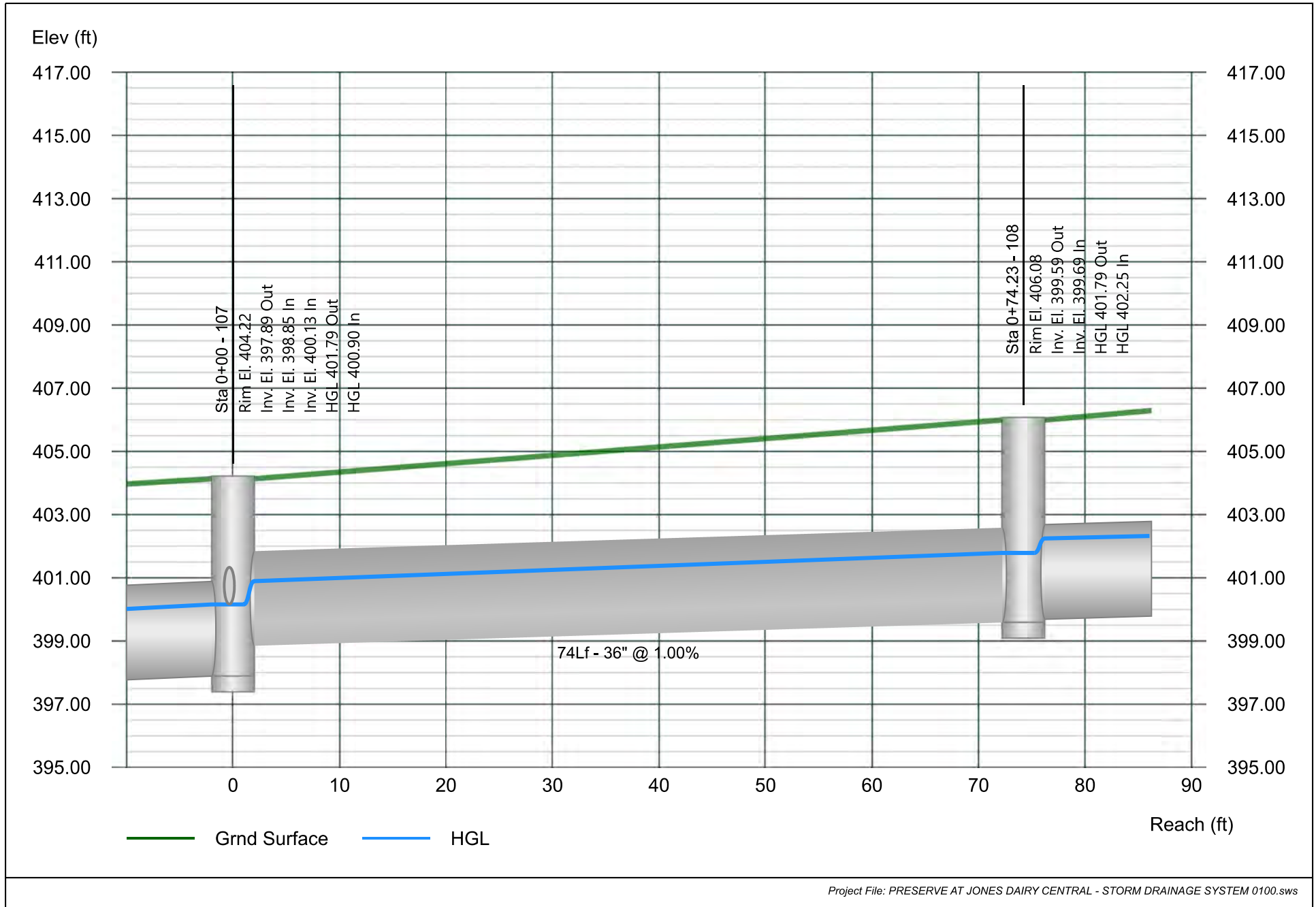
01-19-2024



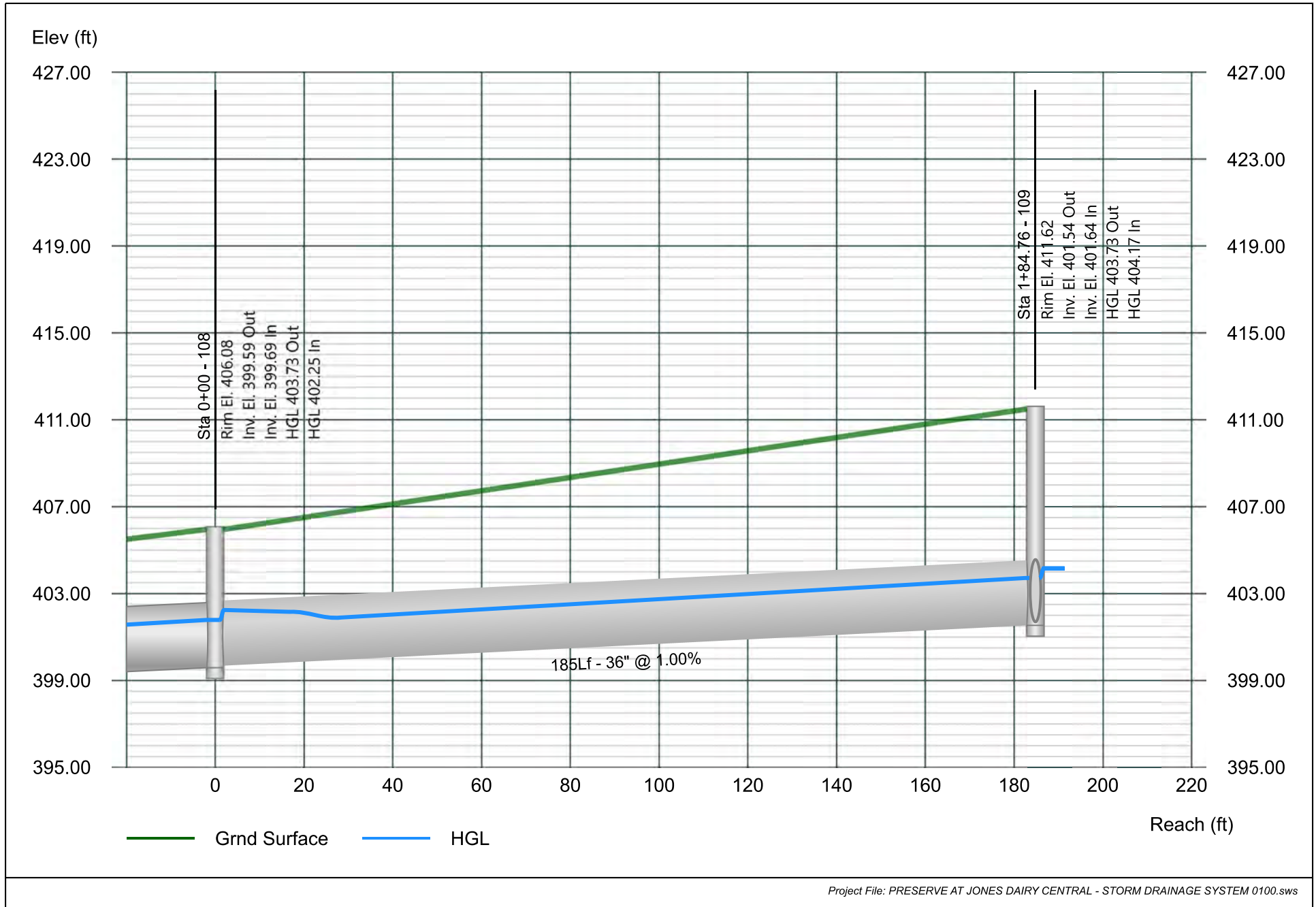
Line 7 - 107 TO 106



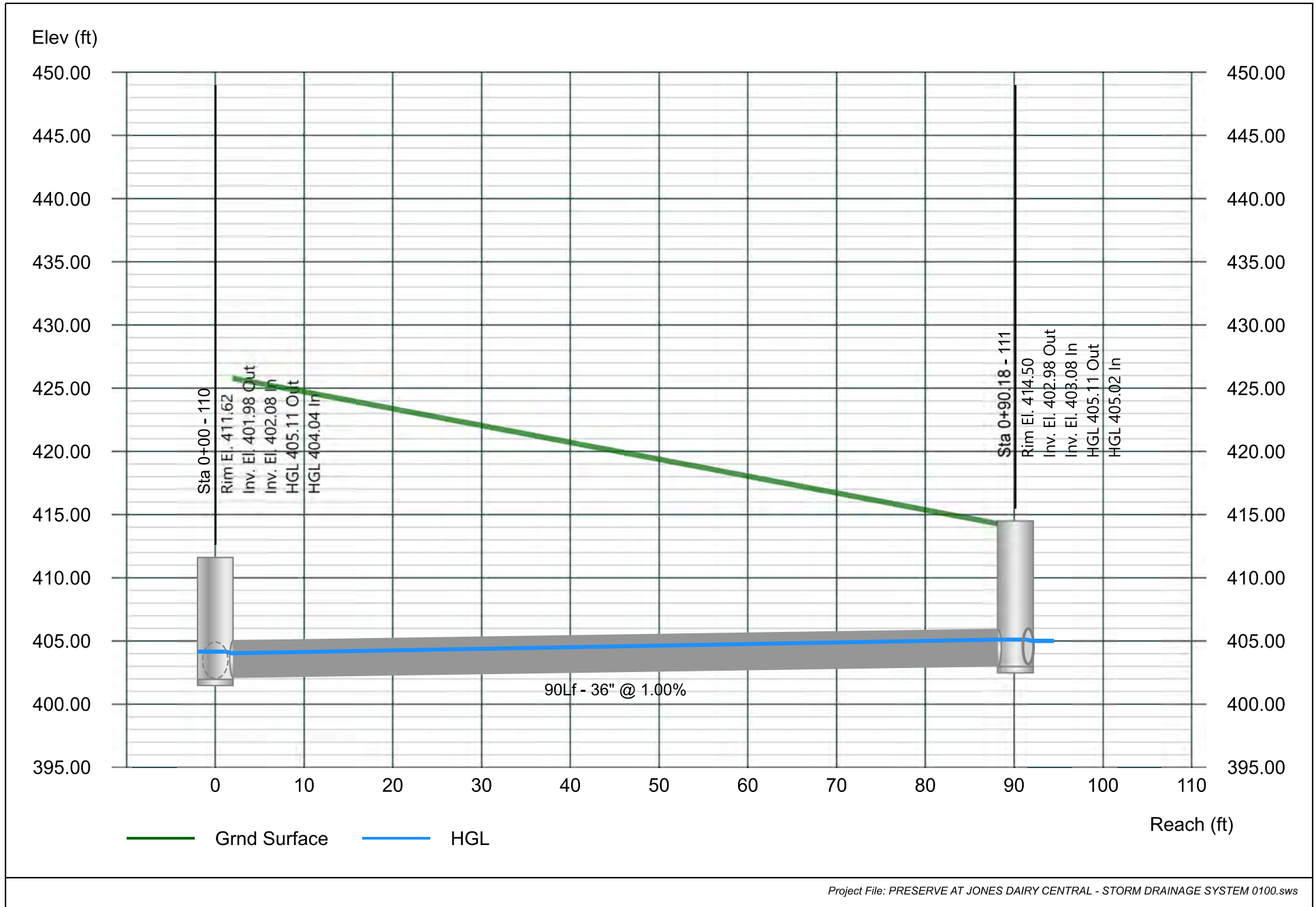
Line 8 - 108 TO 107



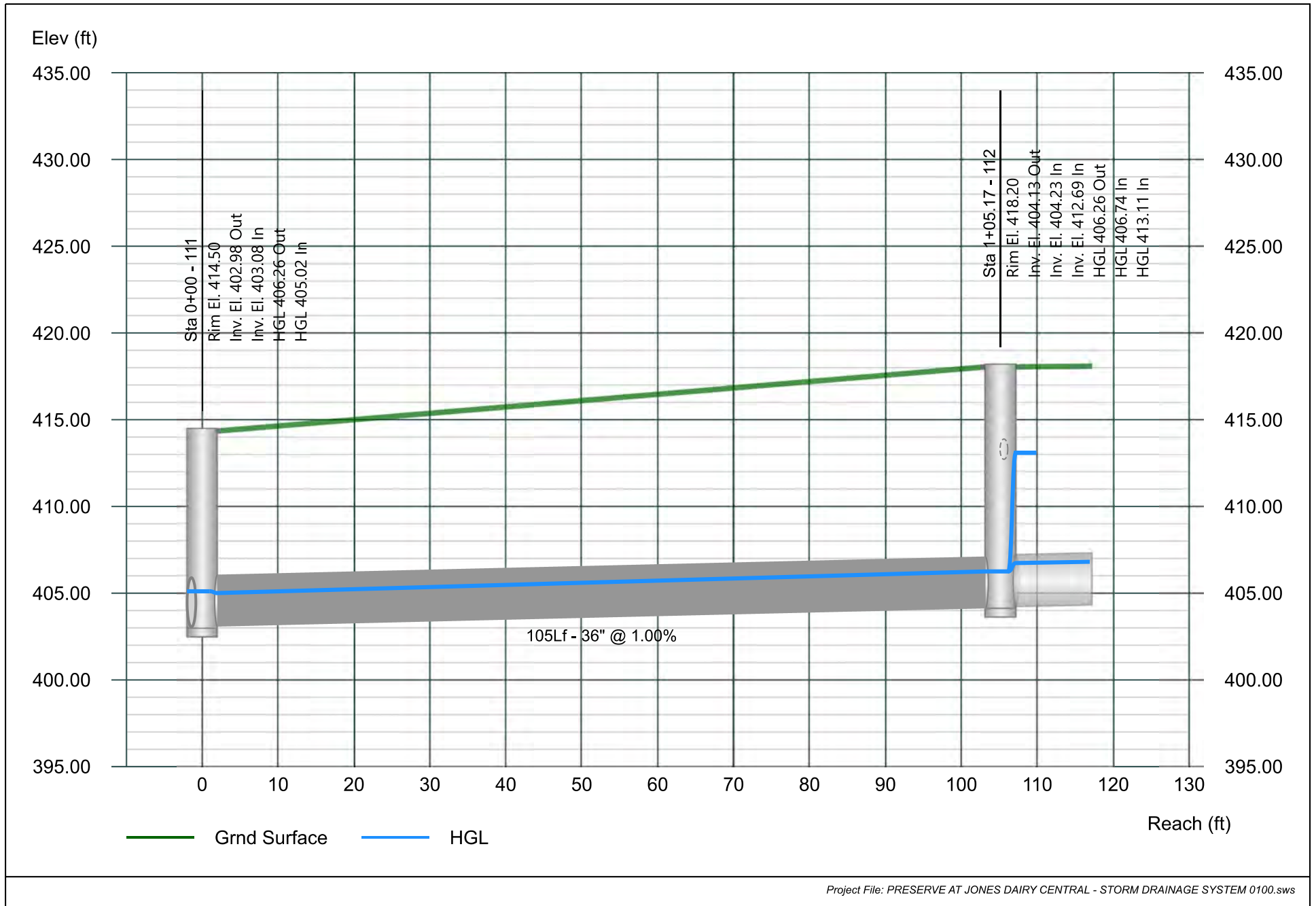
Line 9 - 109 TO 108



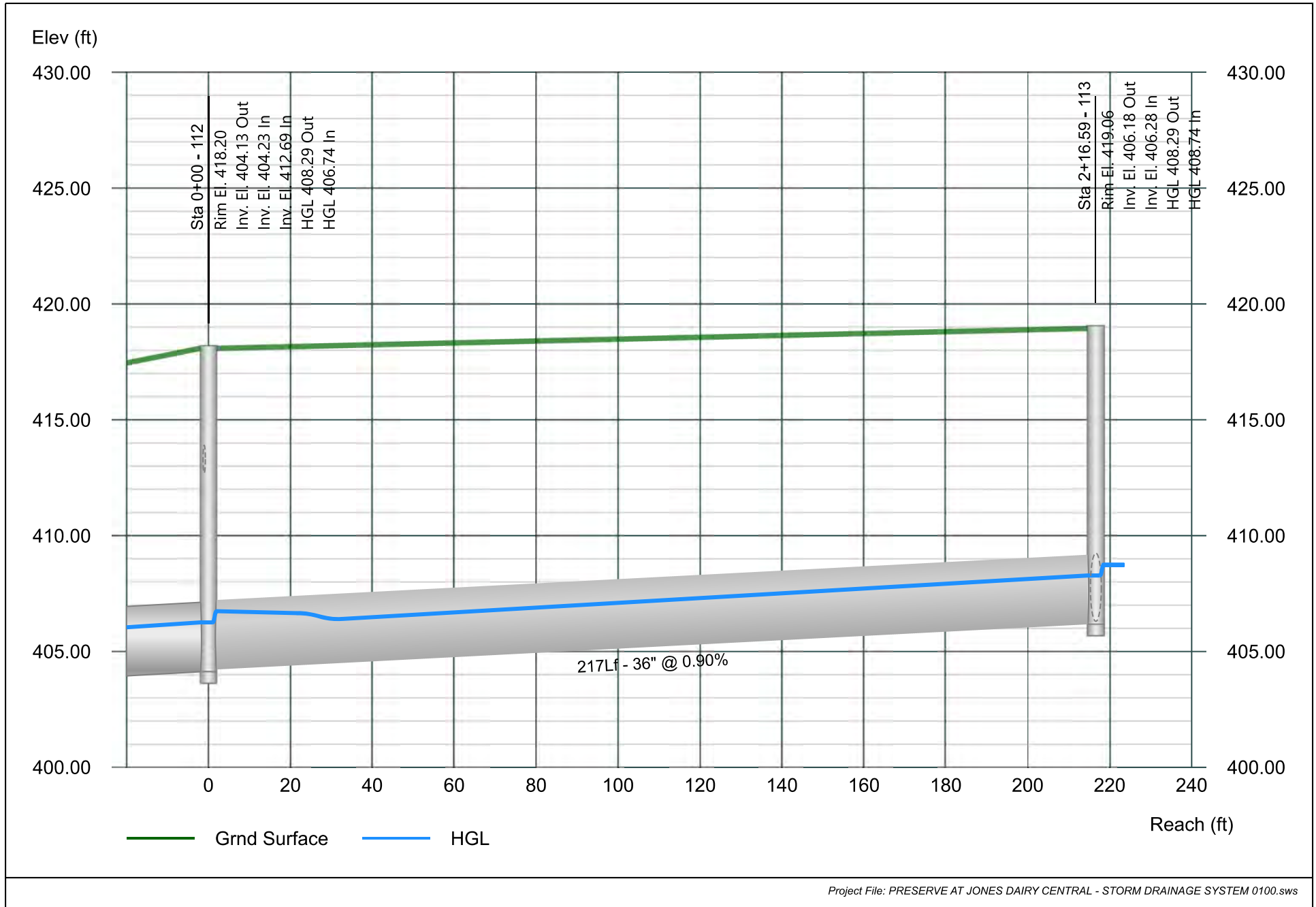
Line 11 - 111 TO 110



Line 12 - 112 TO 111



Line 13 - 113 TO 112

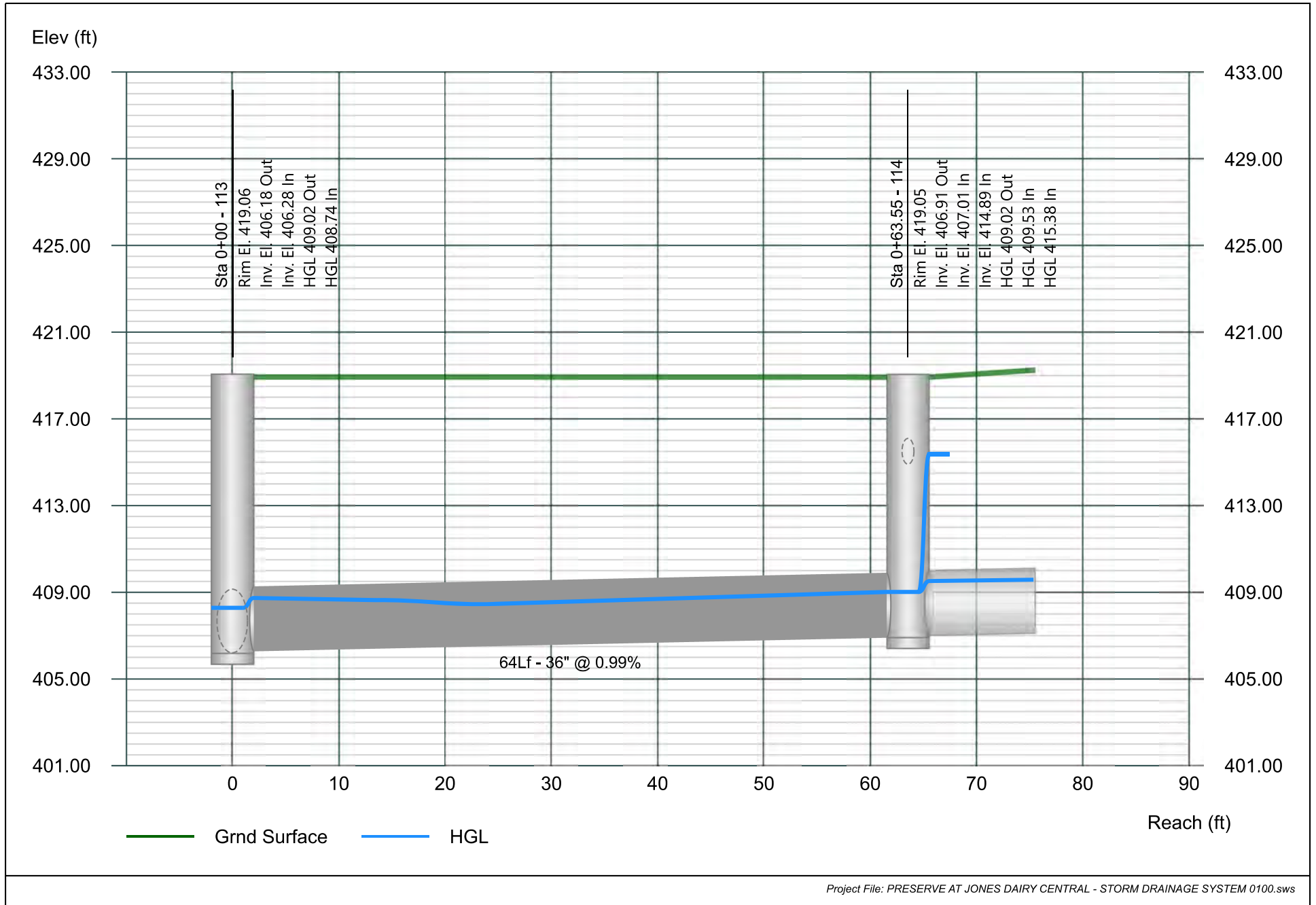


Line 14 - 114 TO 113

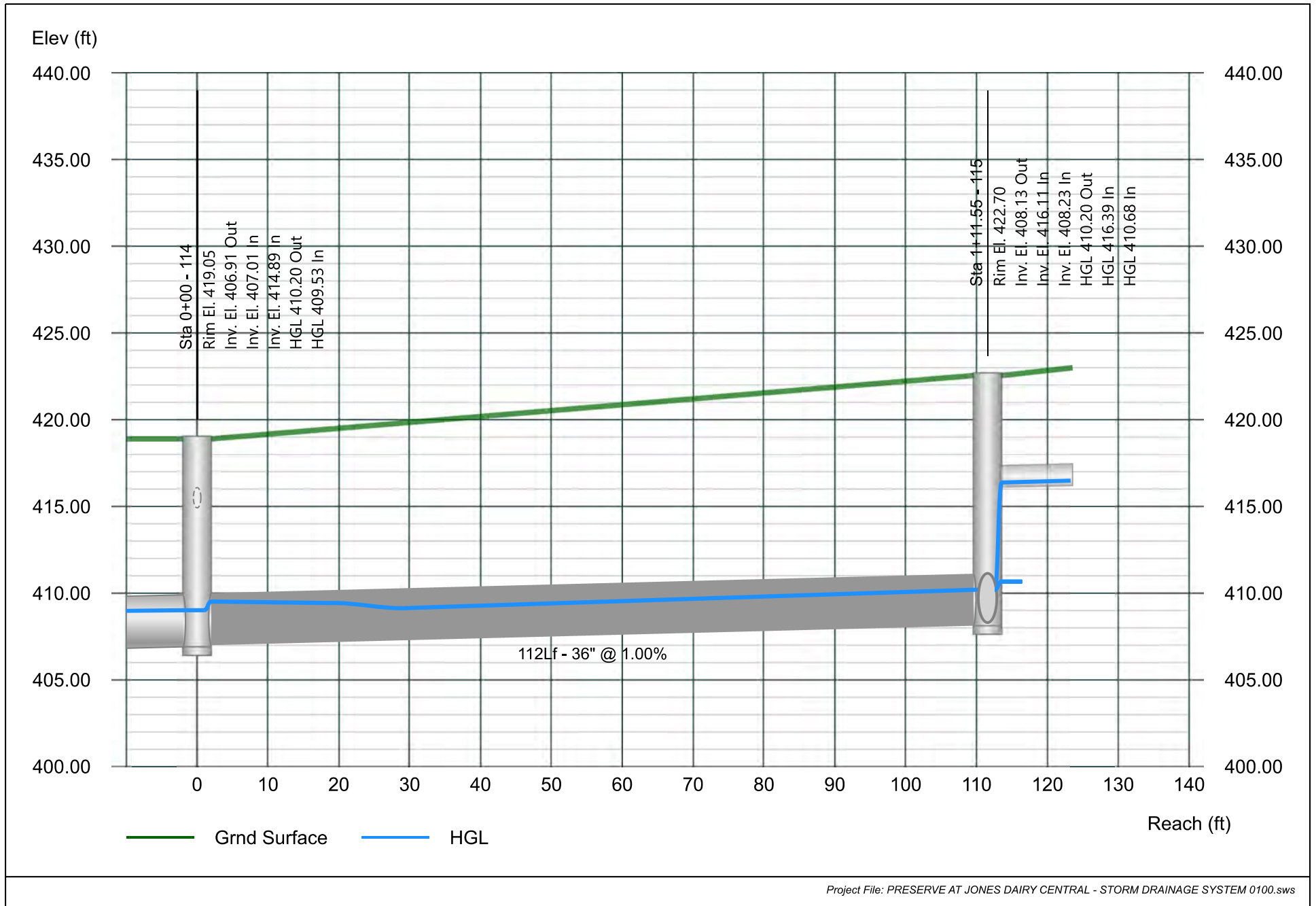
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

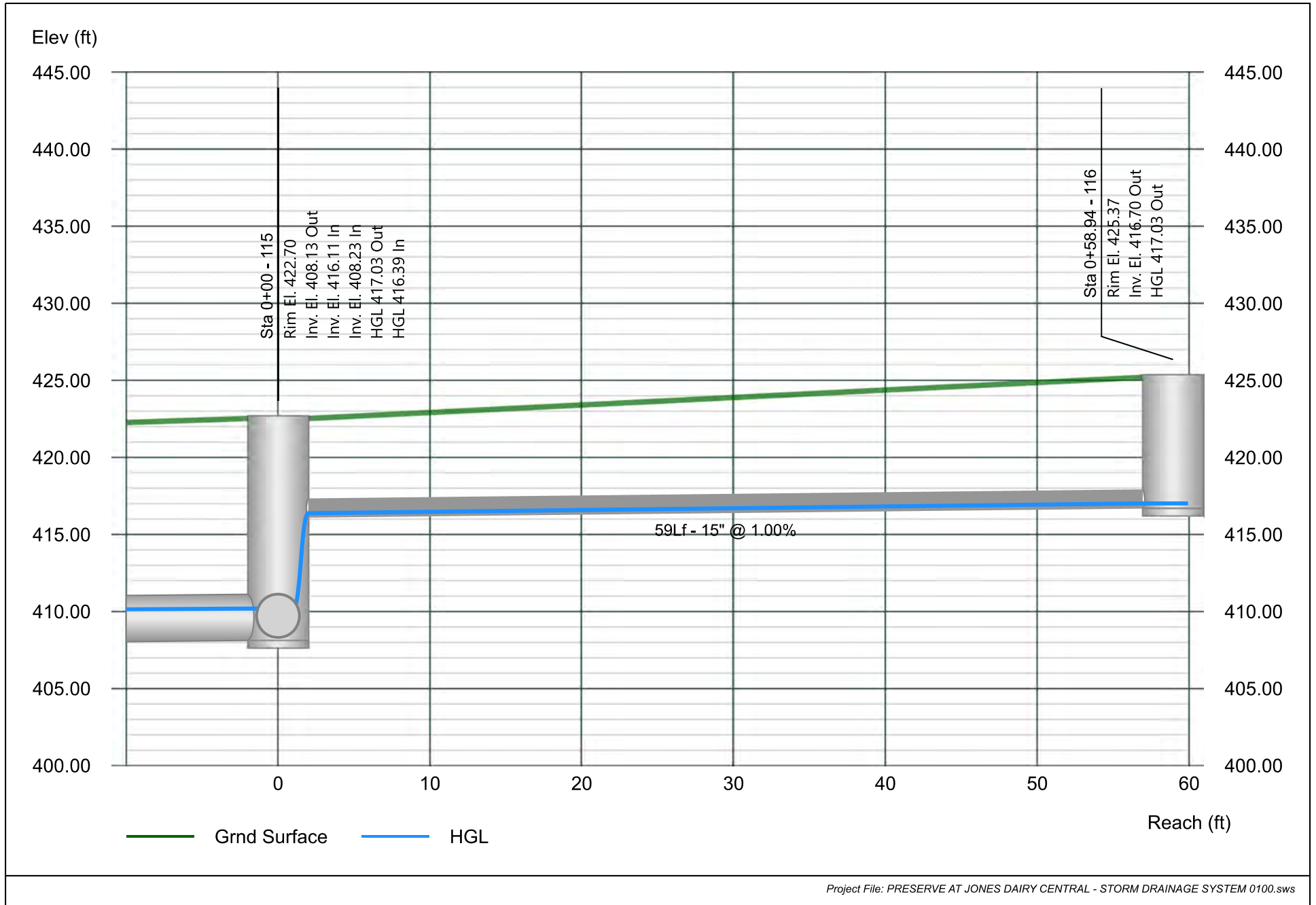
01-19-2024



Line 15 - 115 TO 114



Line 16 - 116 TO 115

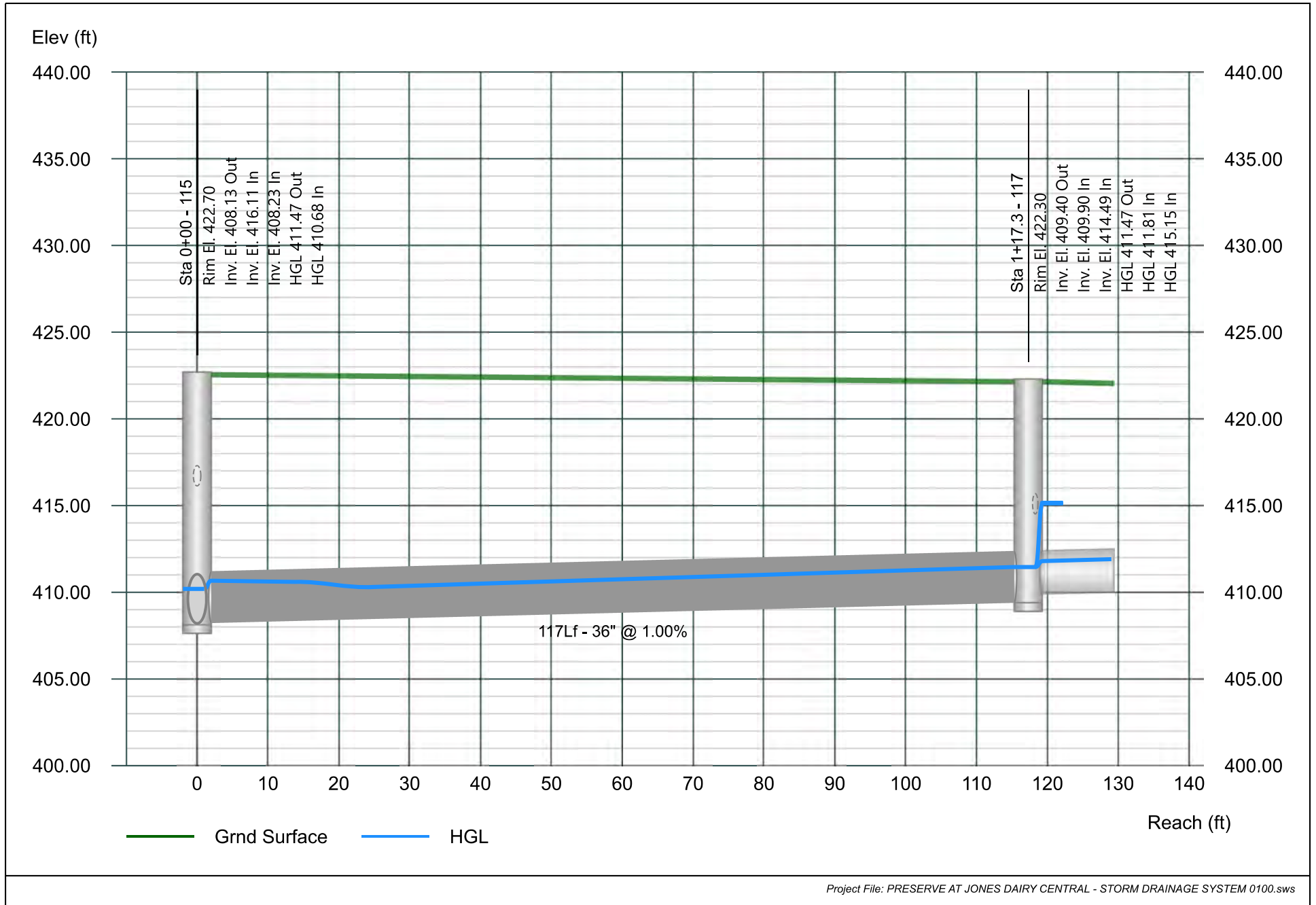


Line 17 - 117 TO 115

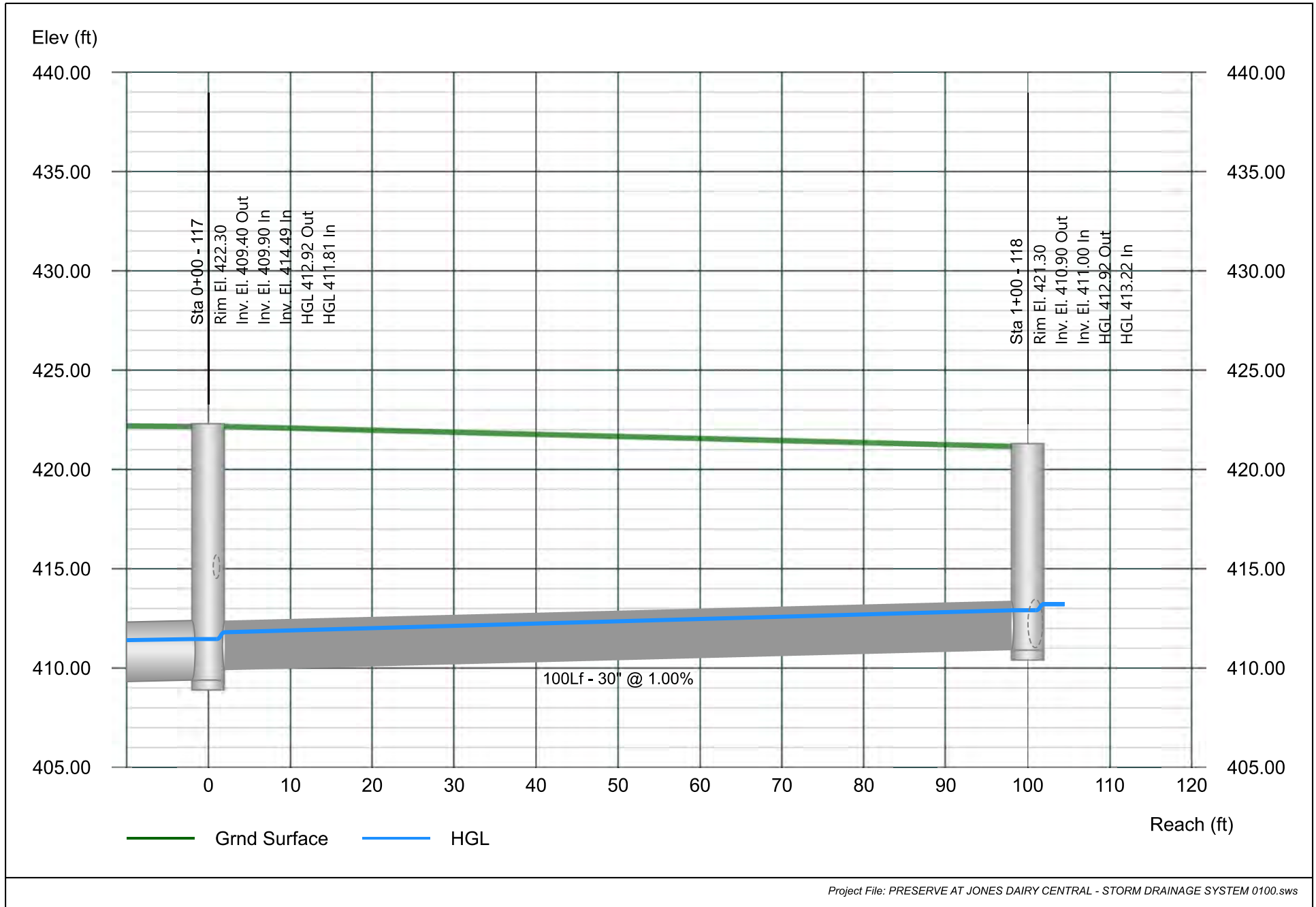
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 18 - 118 TO 117

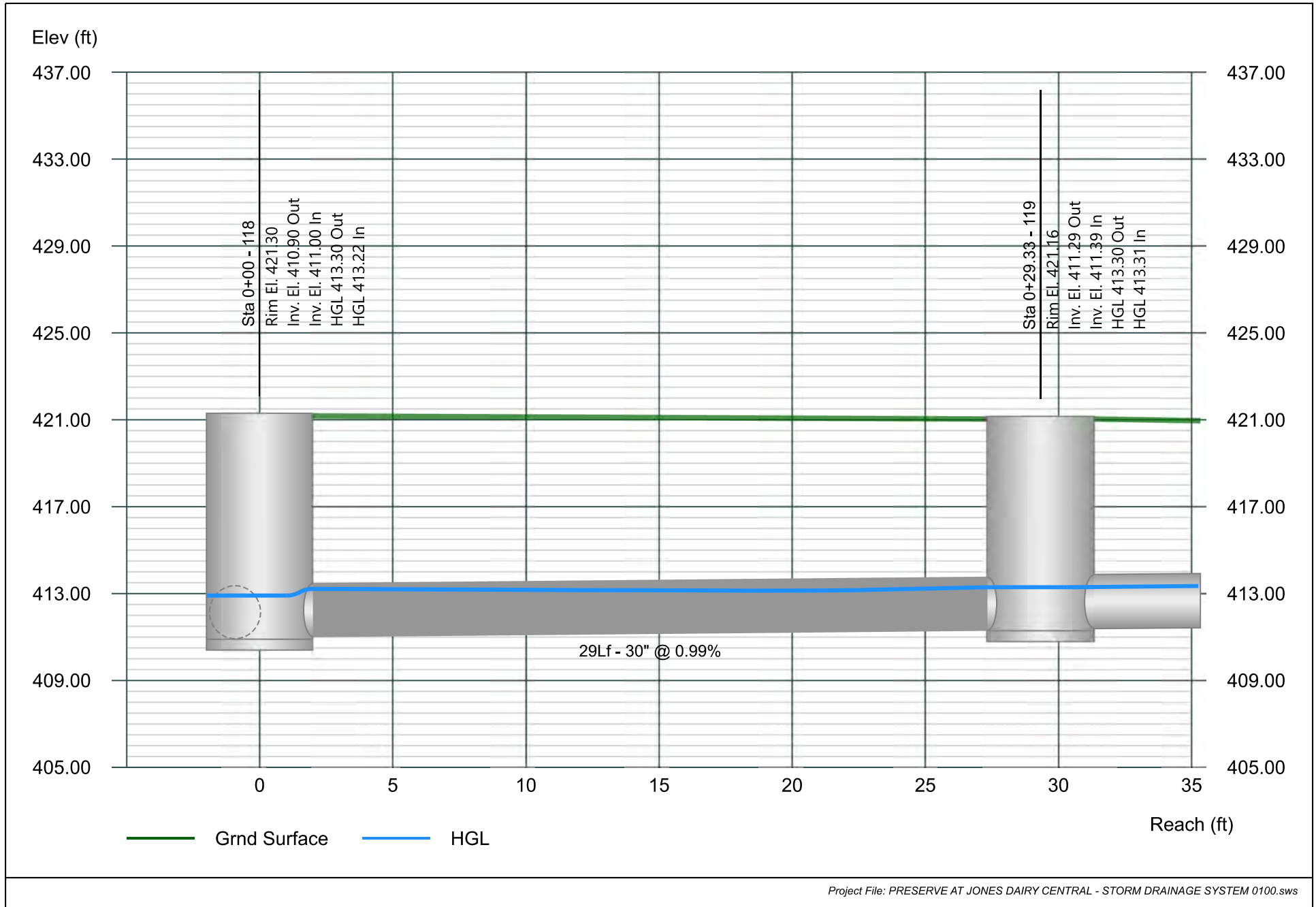


Line 19 - 119 TO 118

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

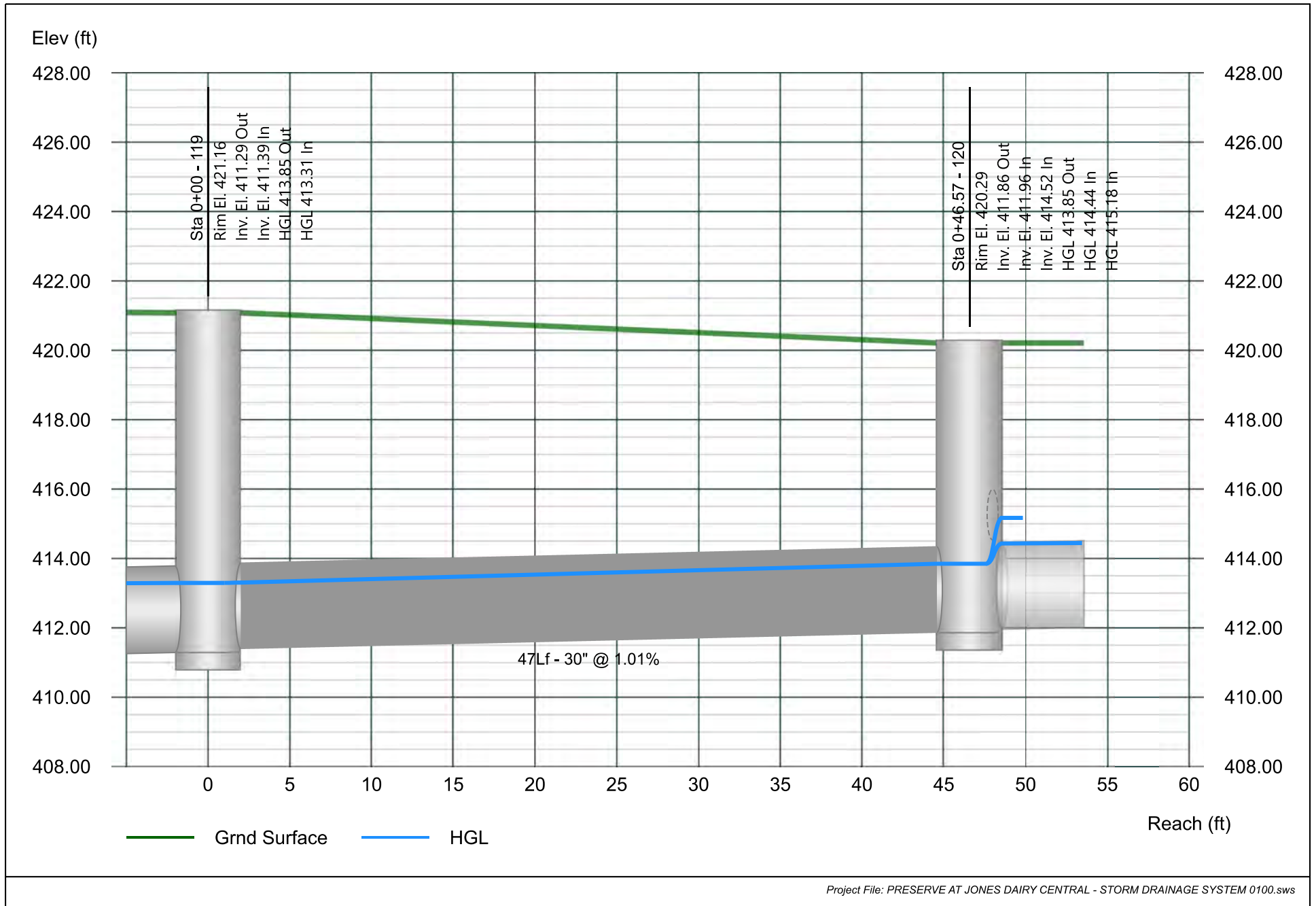


Line 20 - 120 TO 119

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

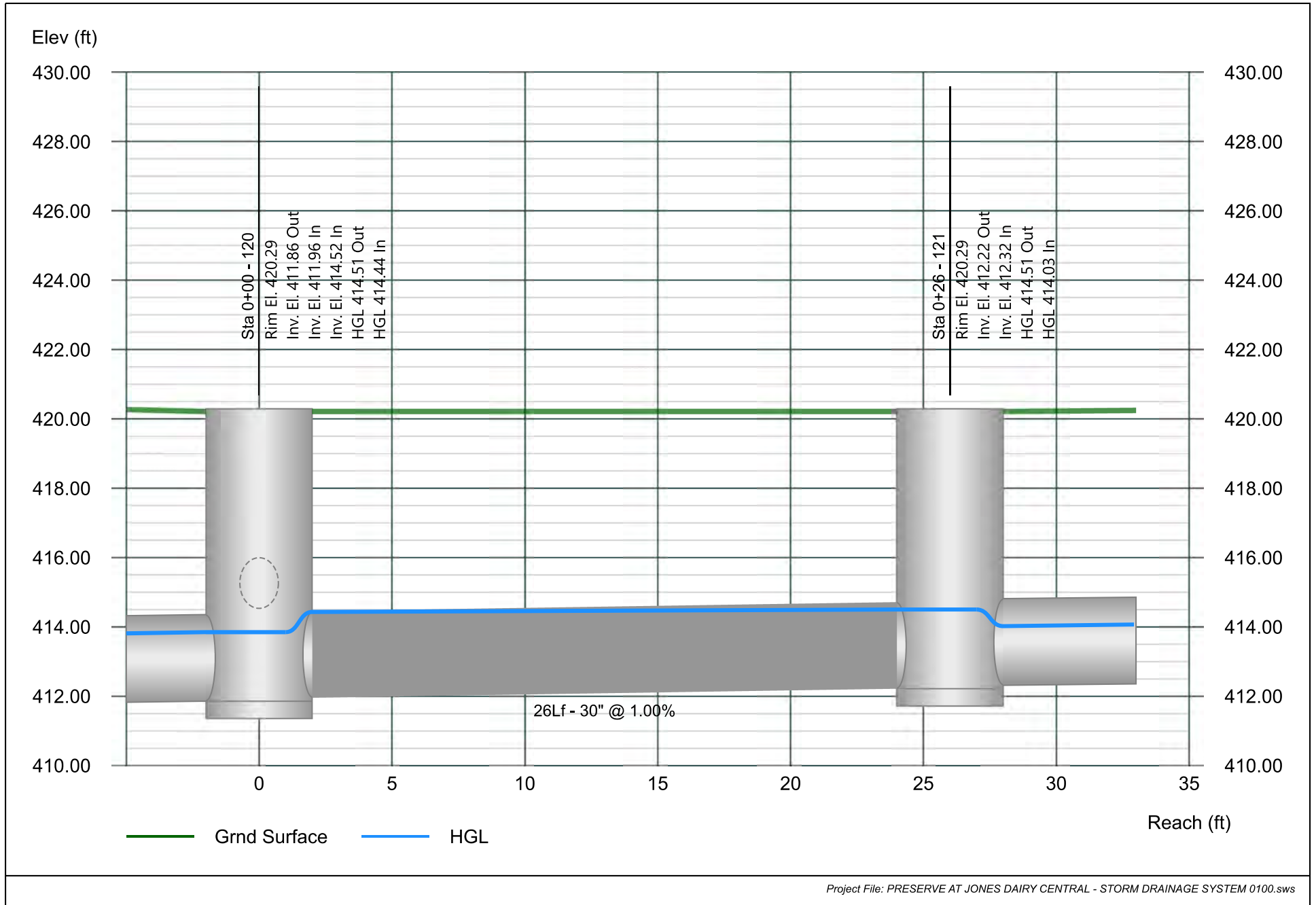


Line 21 - 121 TO 120

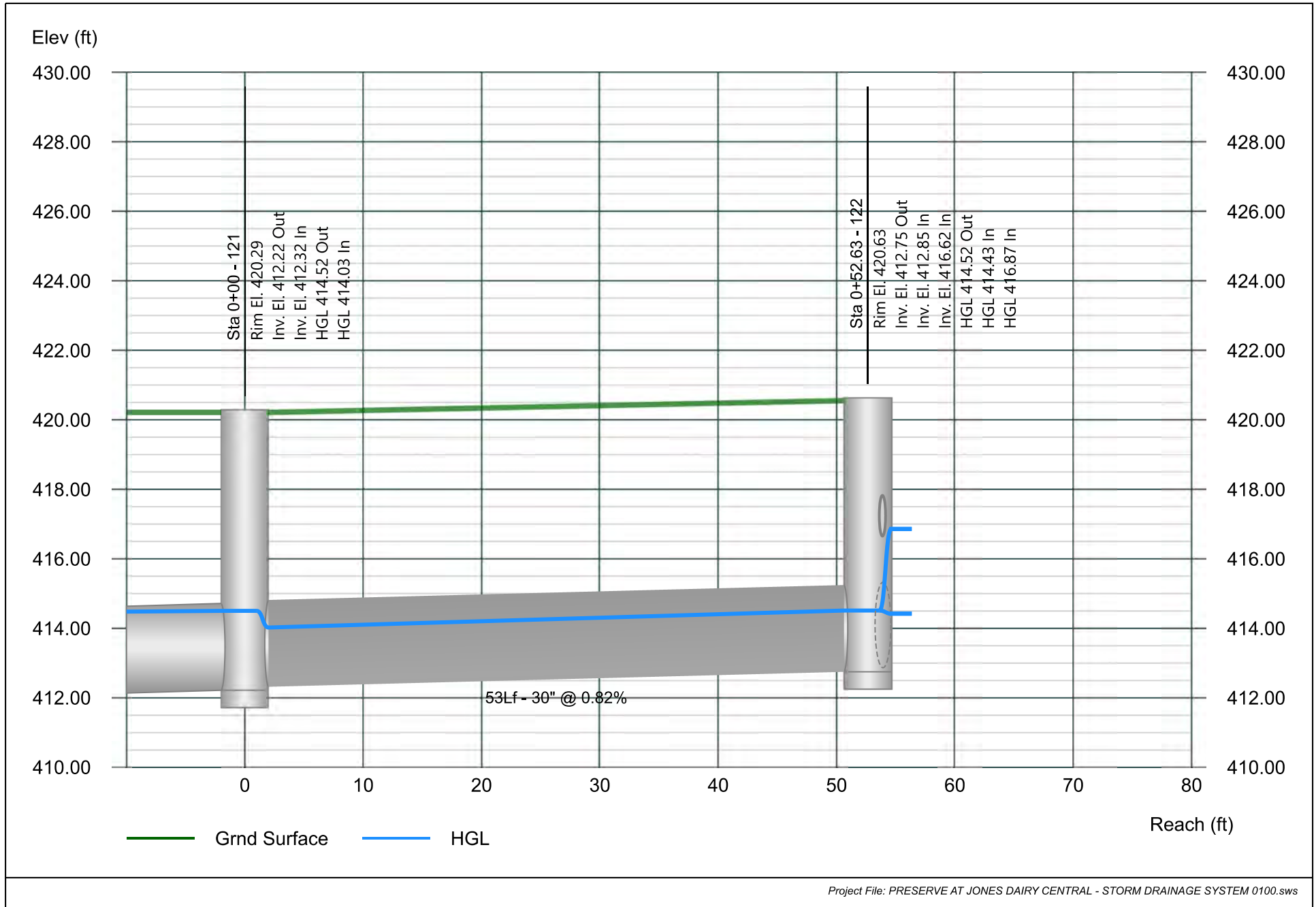
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 22 - 122 TO 121

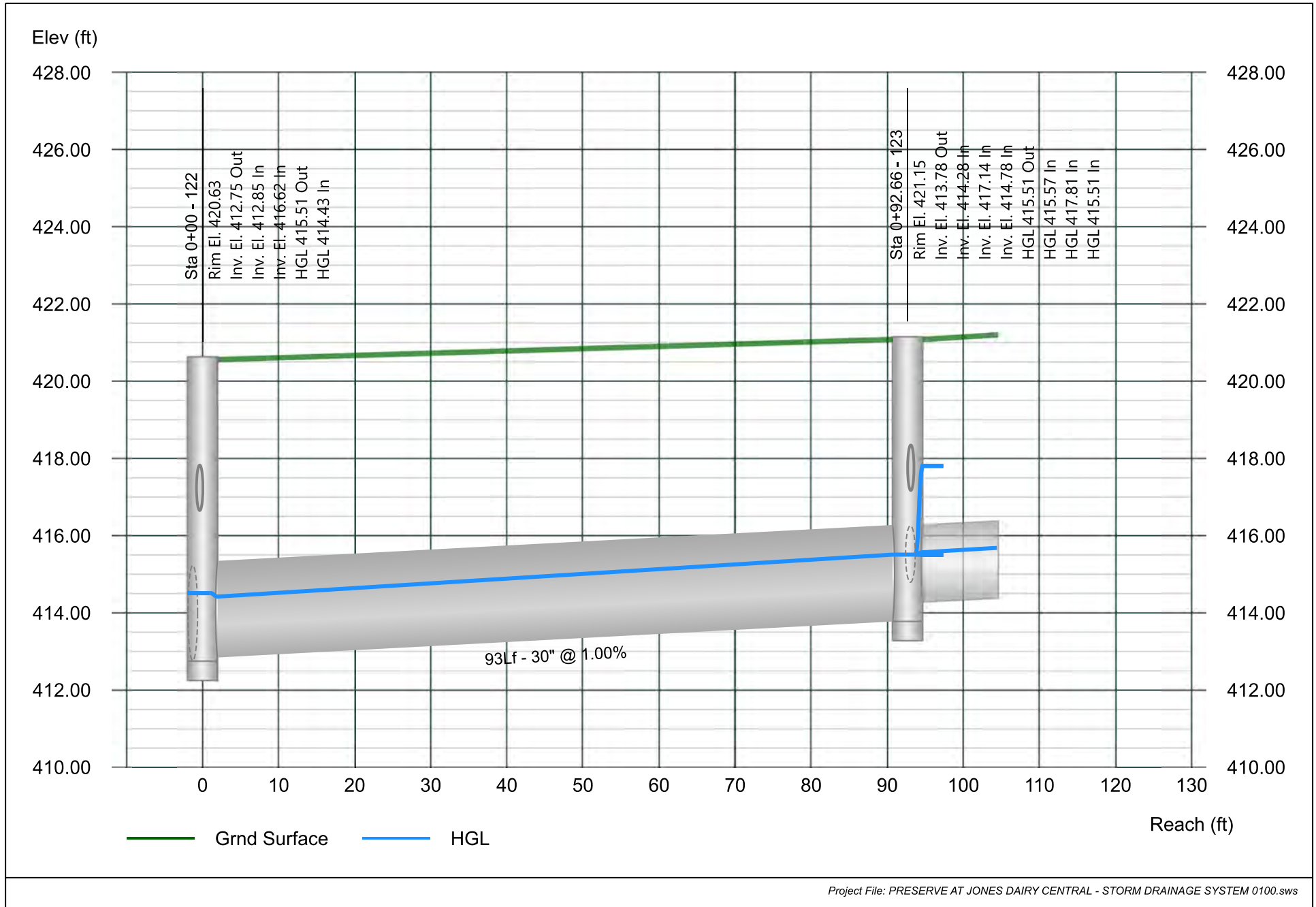


Line 23 - 123 TO 122

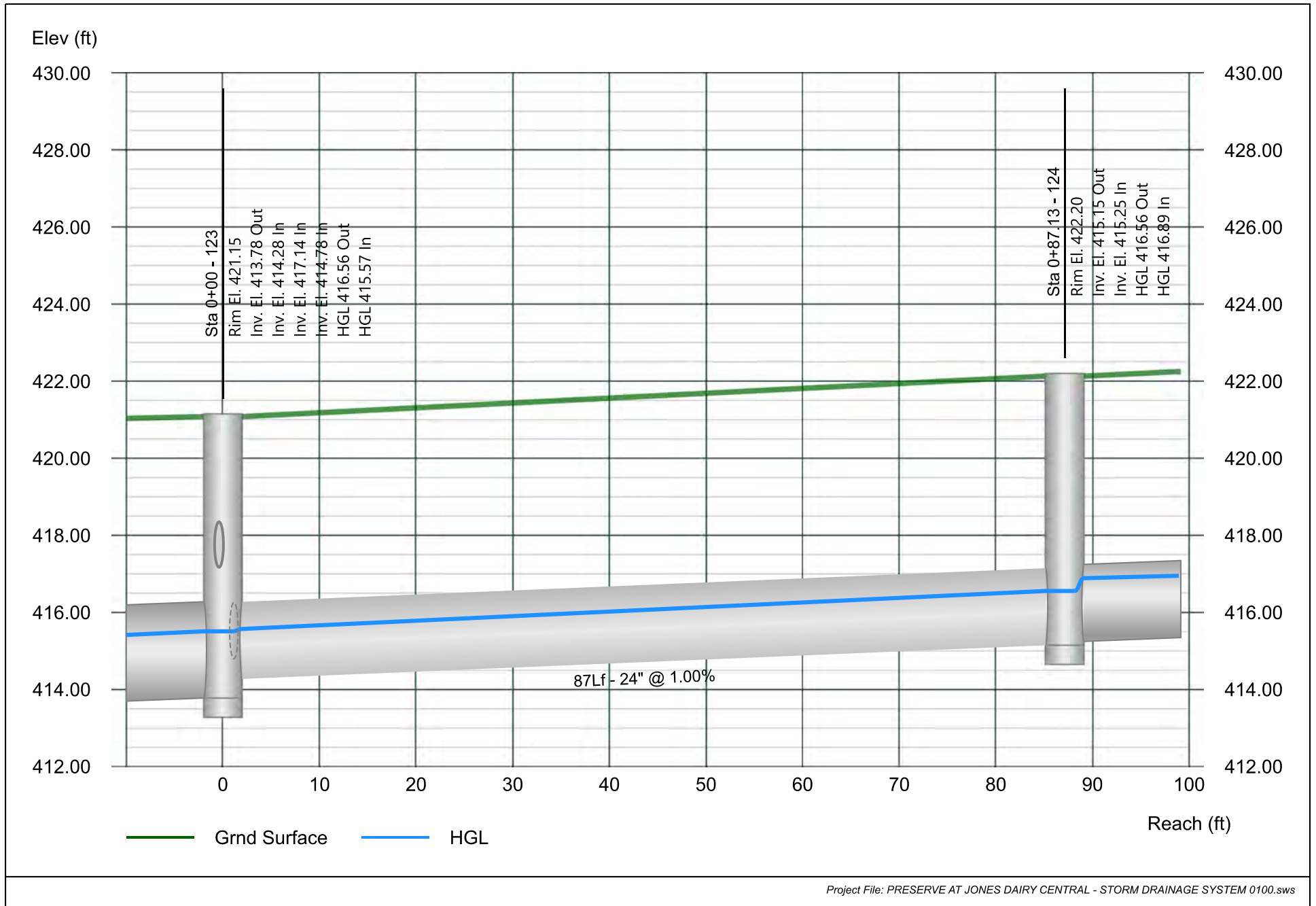
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 24 - 124 TO 123

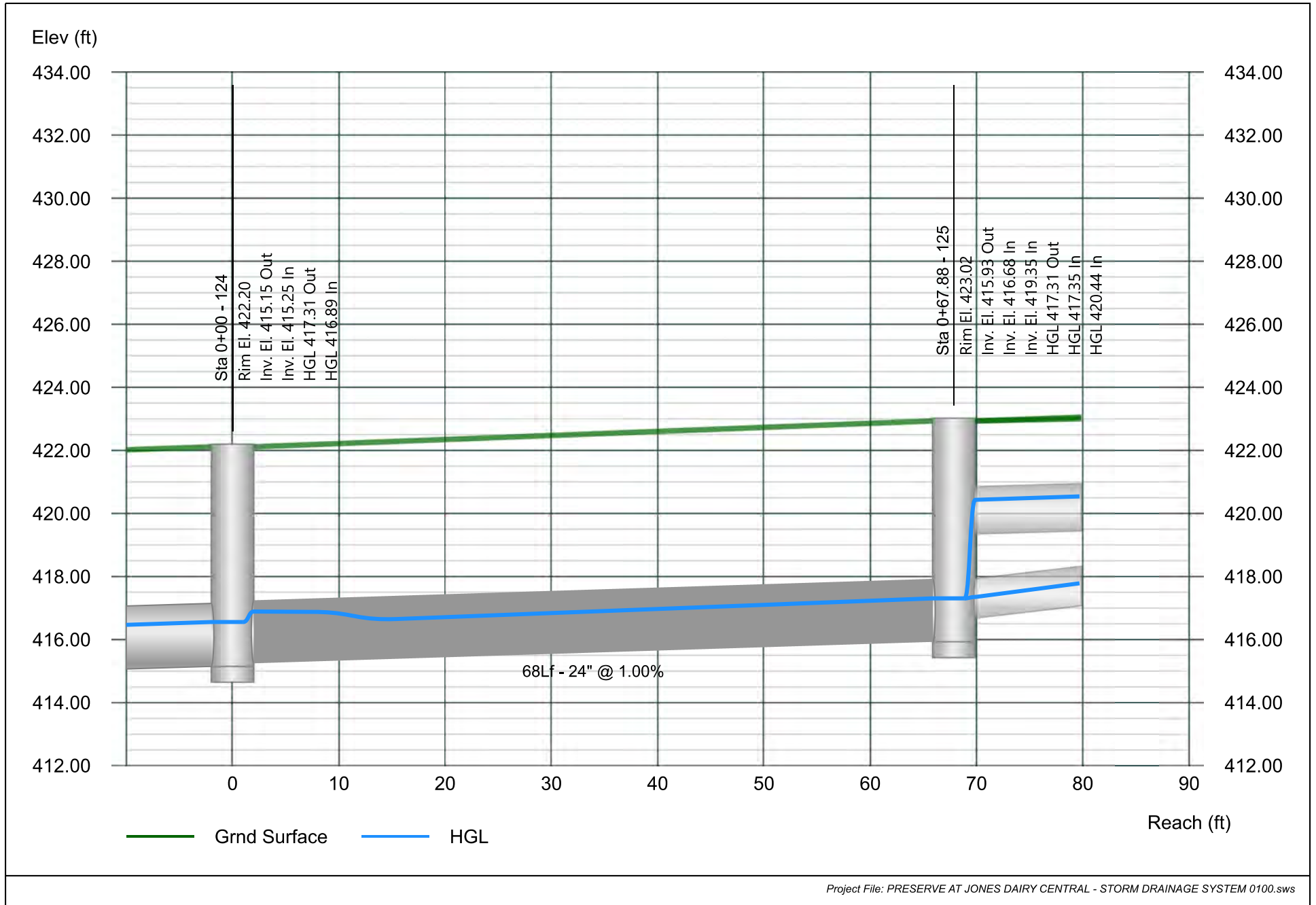


Line 25 - 125 TO 124

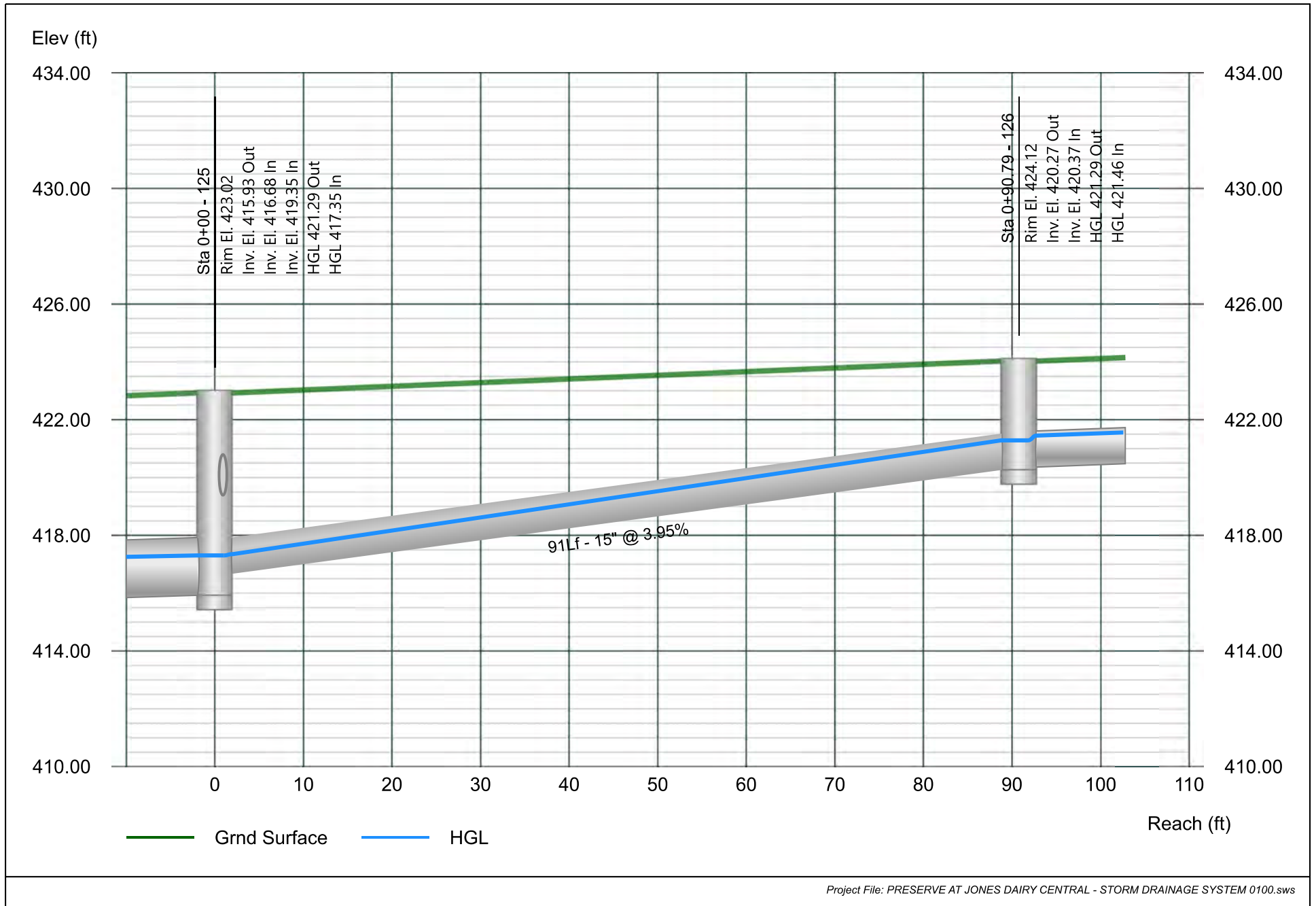
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 26 - 126 TO 125

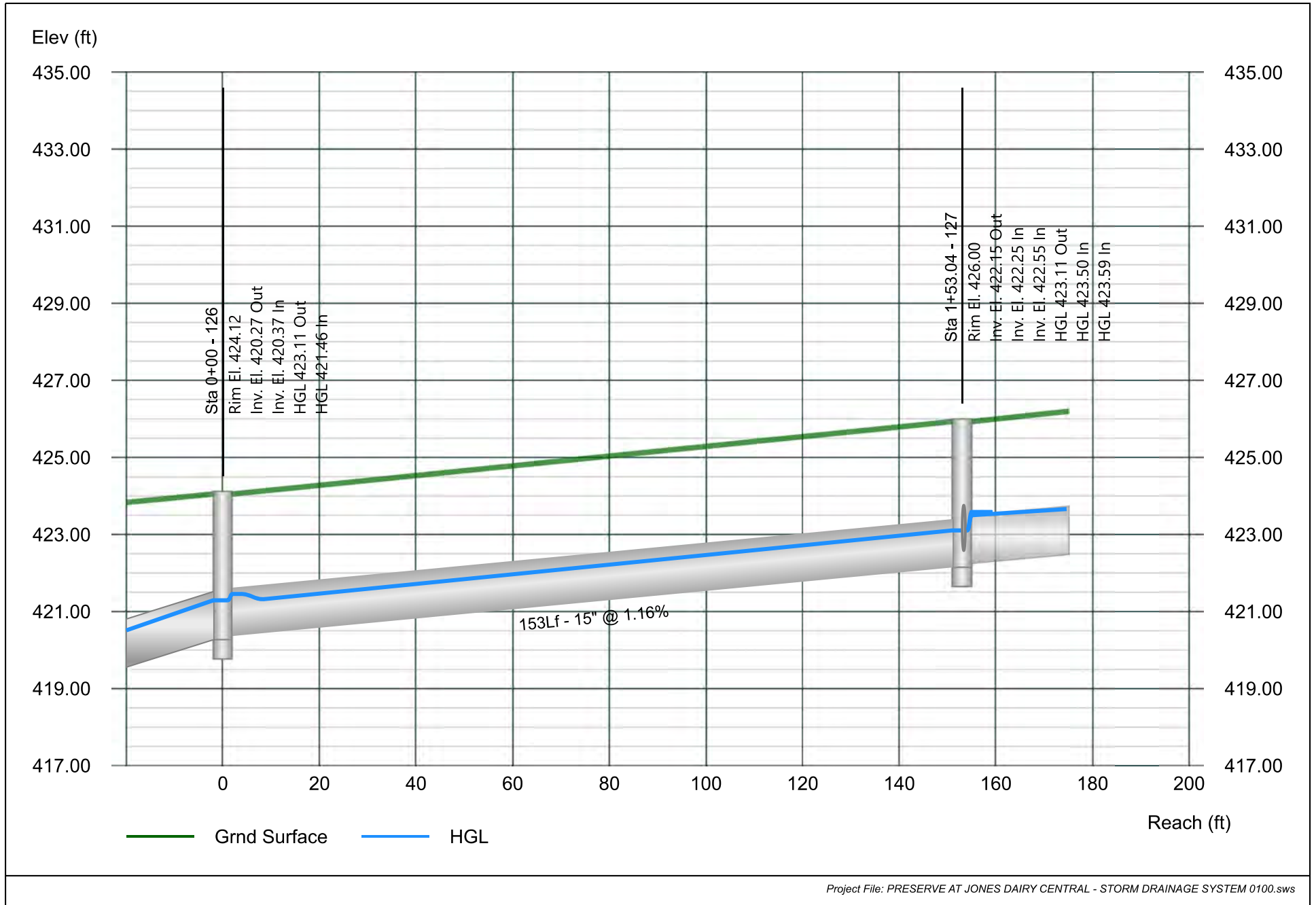


Line 27 - 127 TO 126

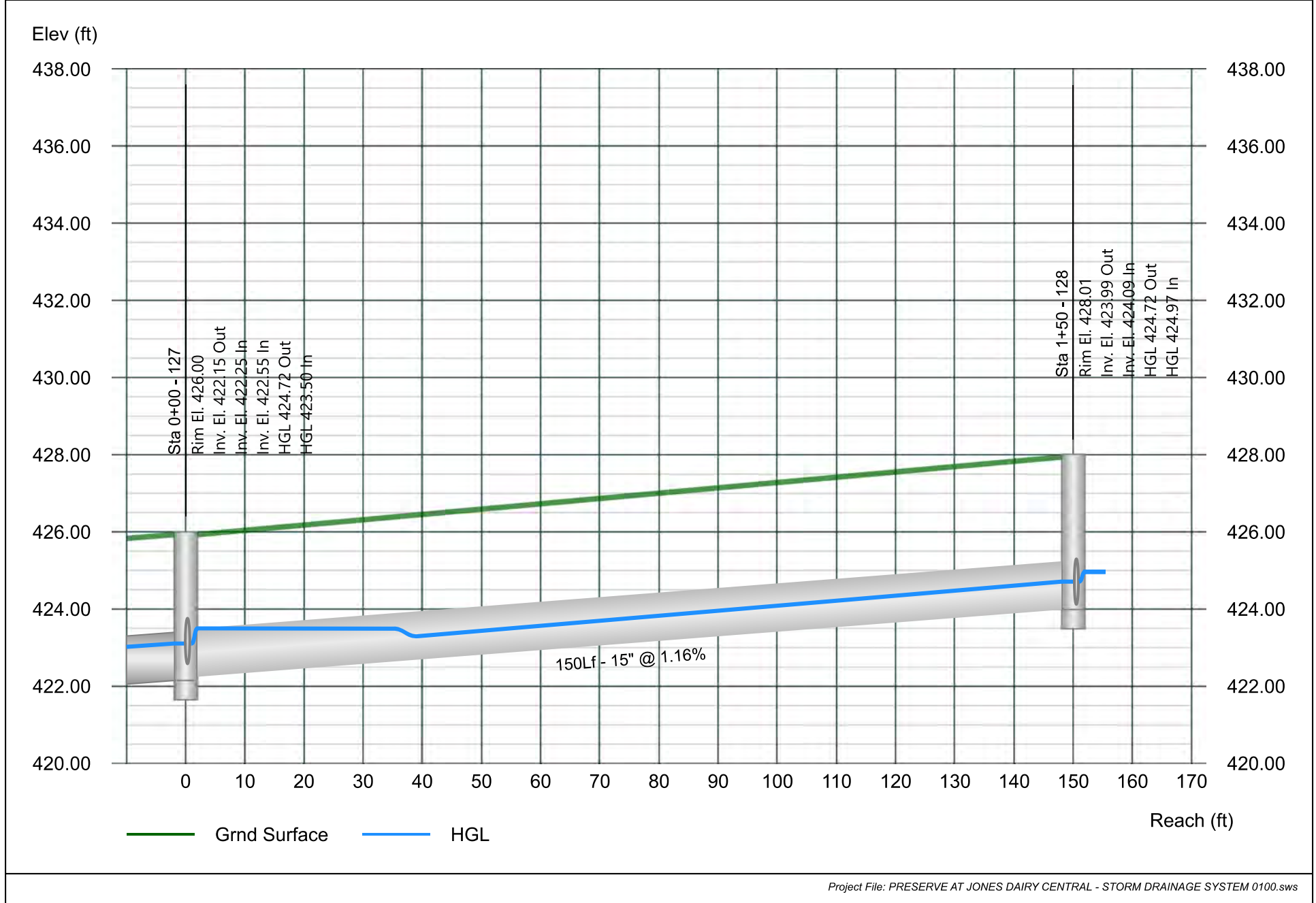
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 28 - 128 TO 127

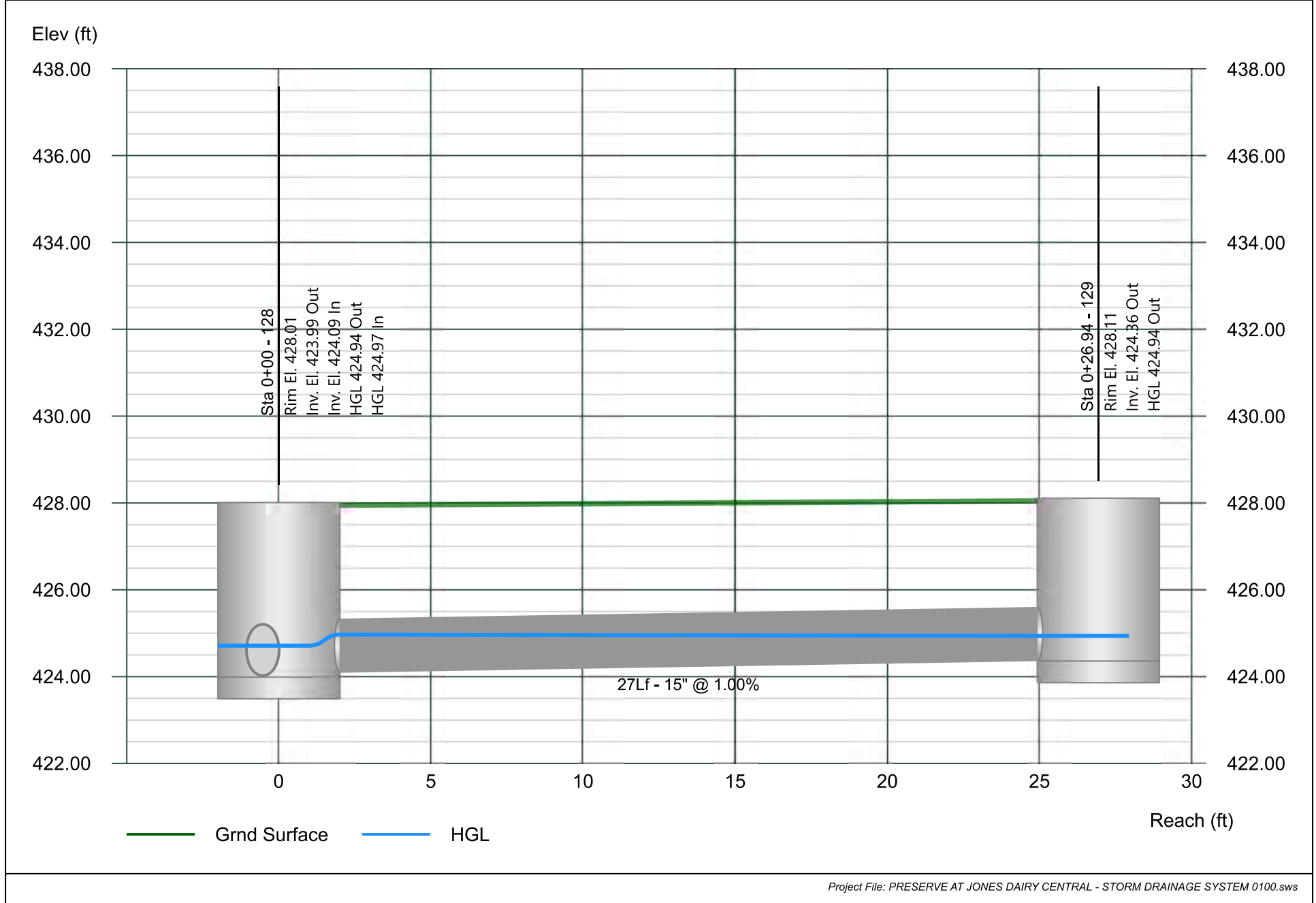


Line 29 - 129 TO 128

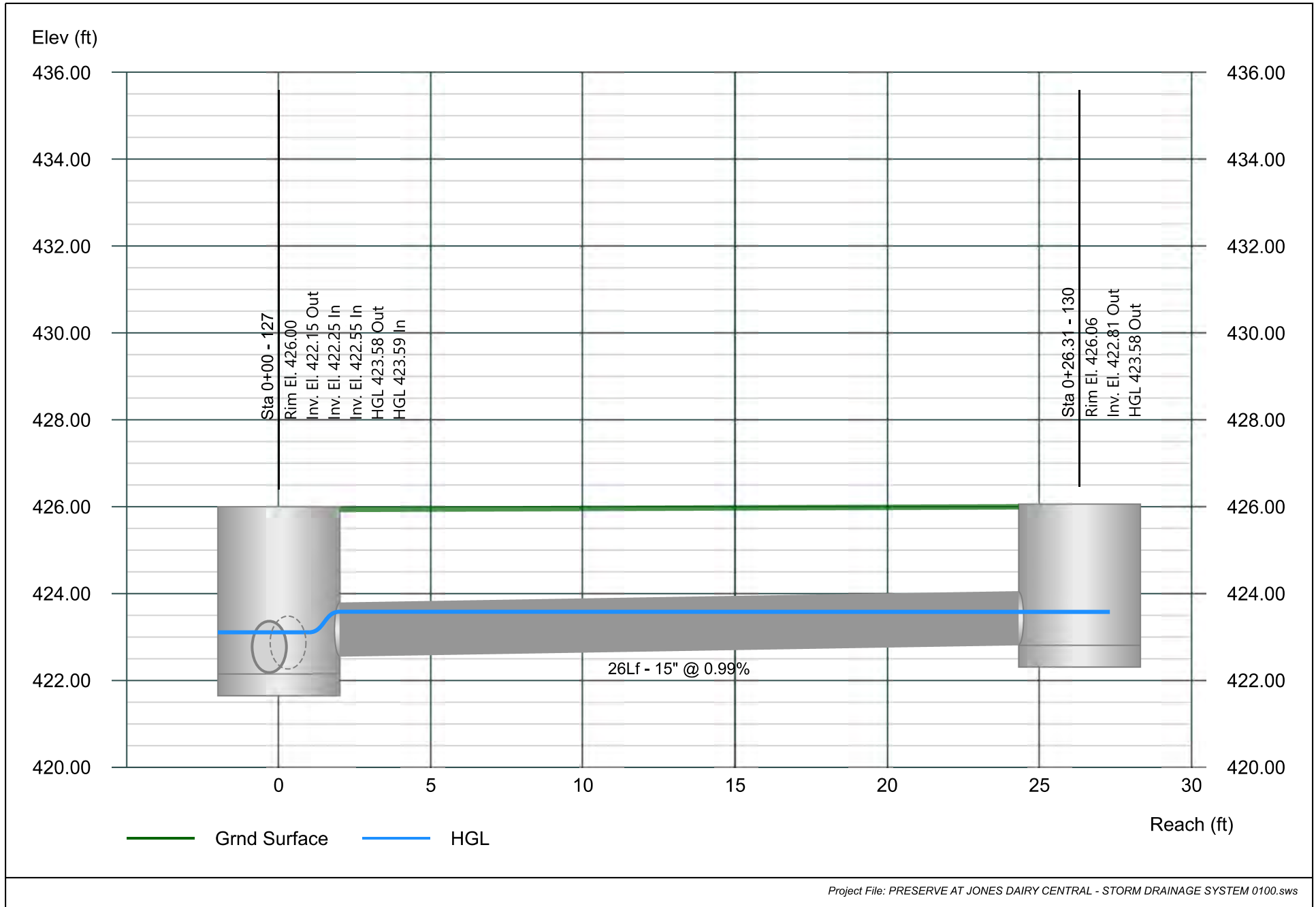
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 30 - 130 TO 127

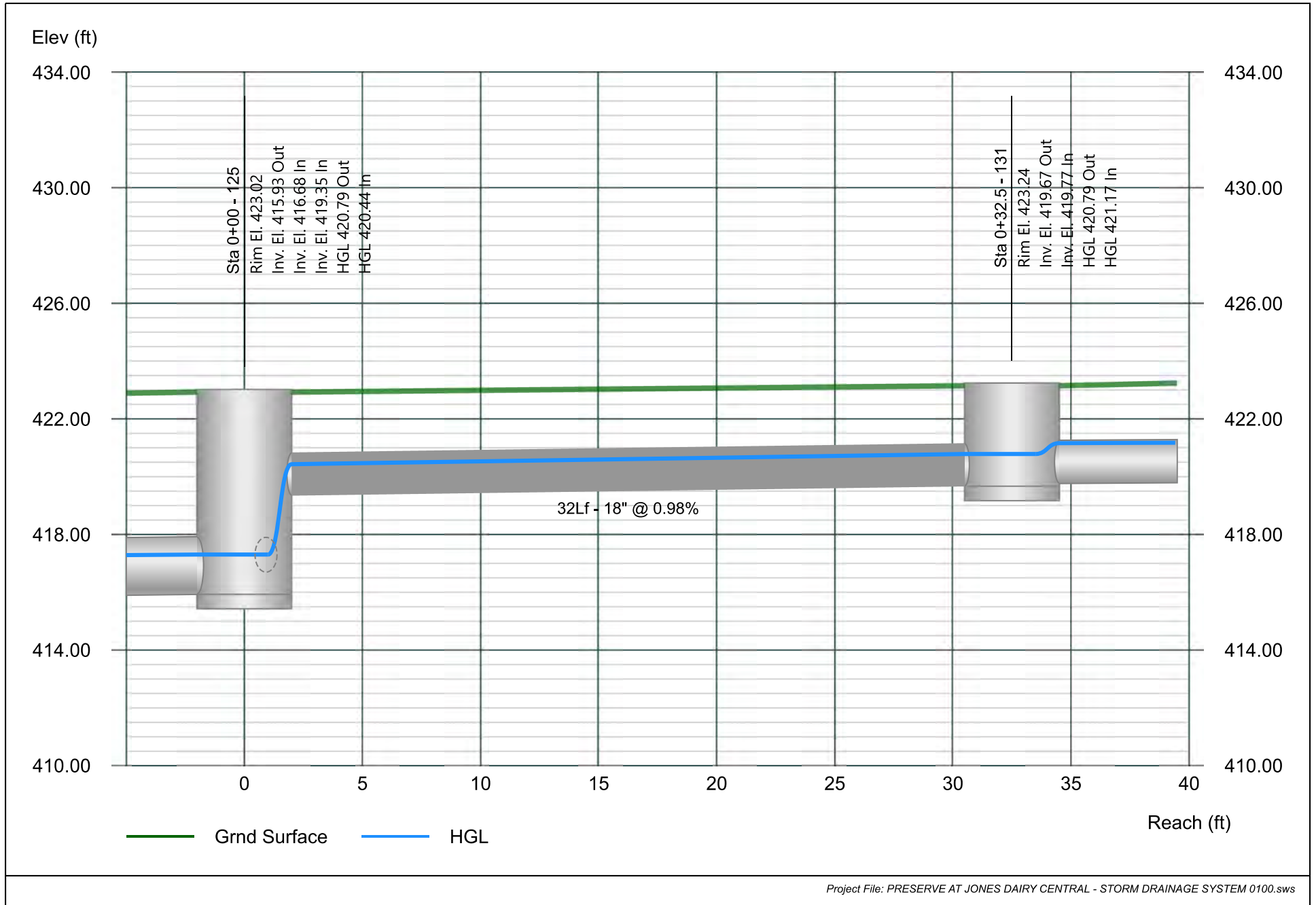


Line 31 - 131 TO 125

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

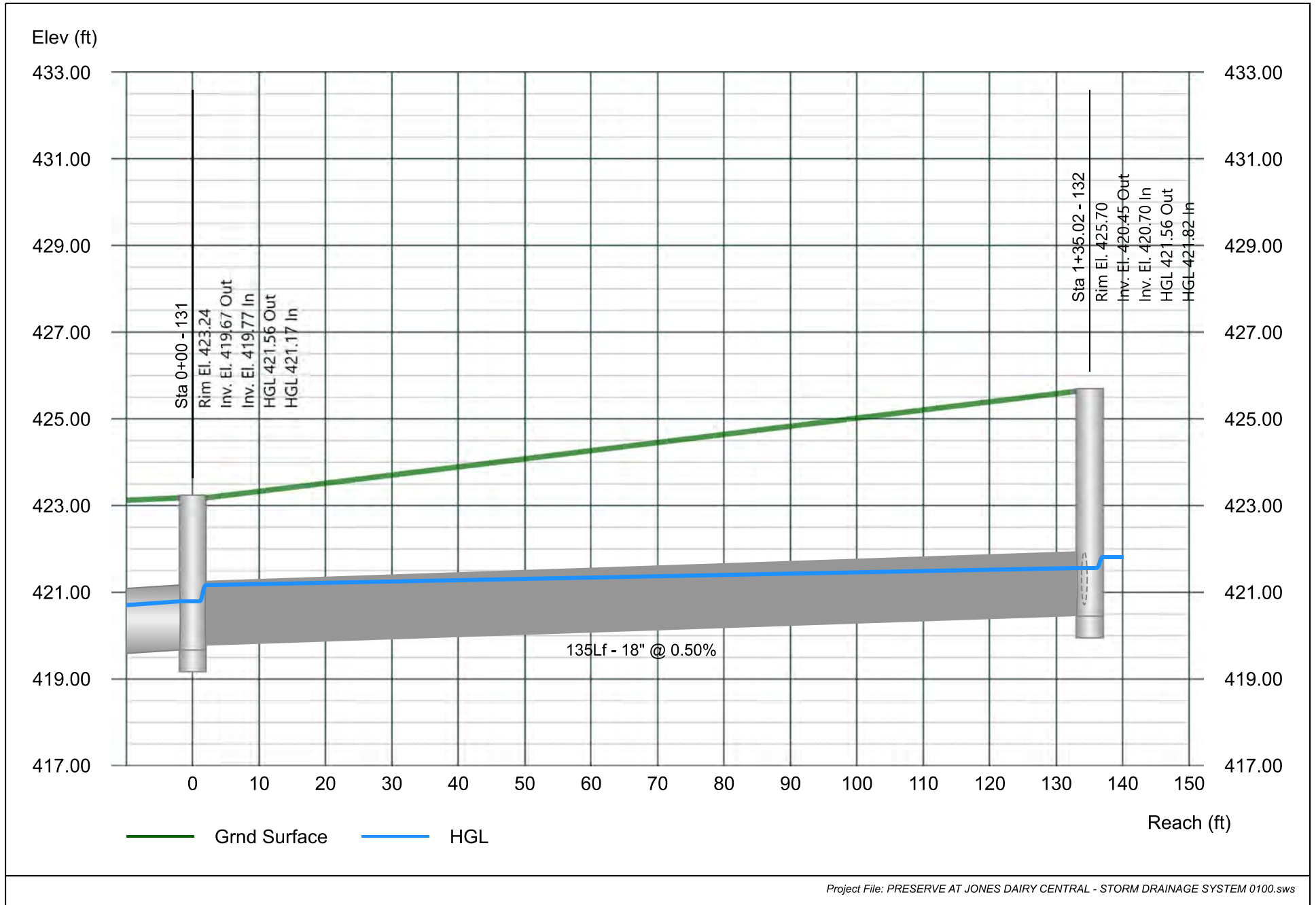


Line 32 - 132 TO 131

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

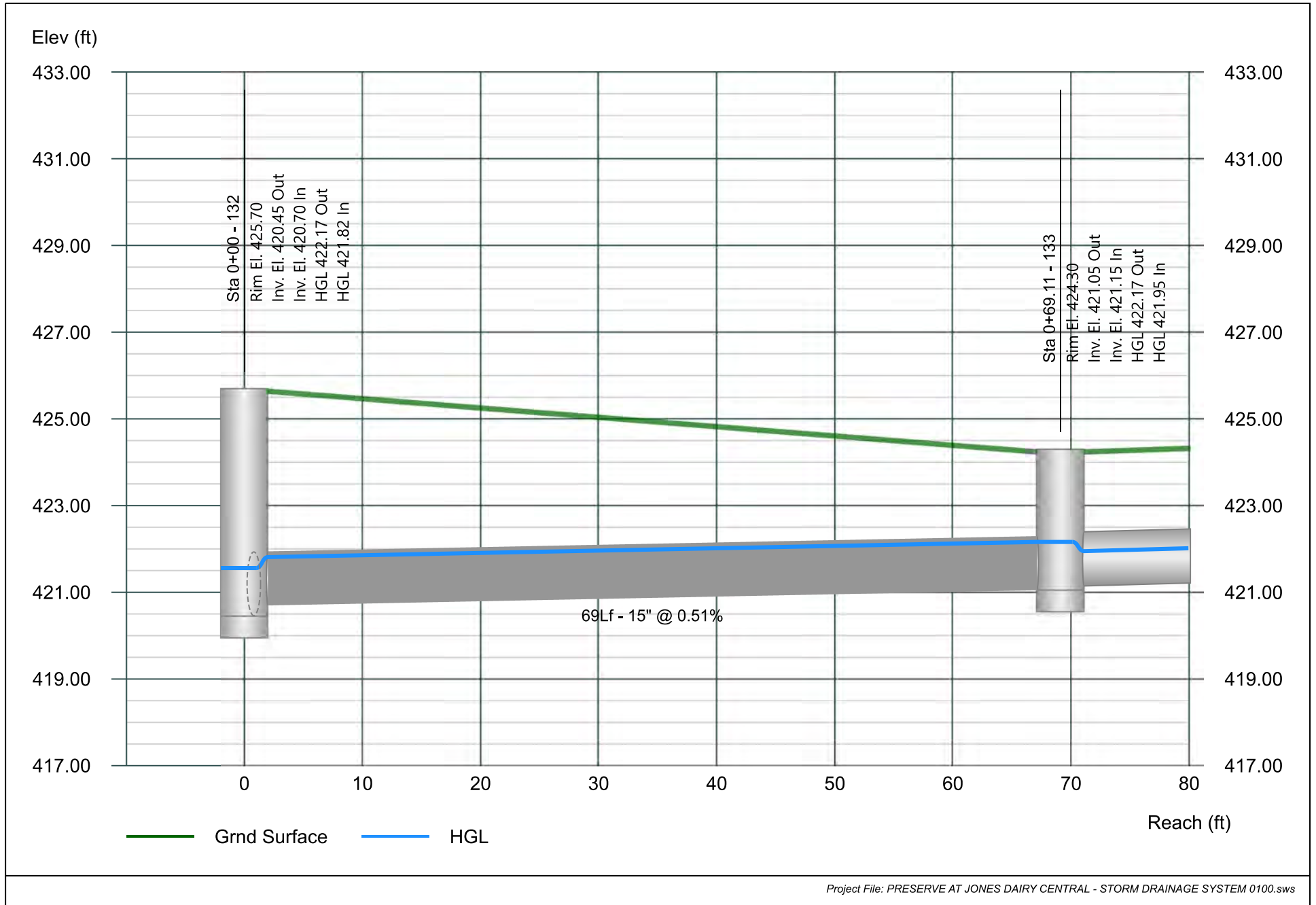


Line 33 - 133 TO 132

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

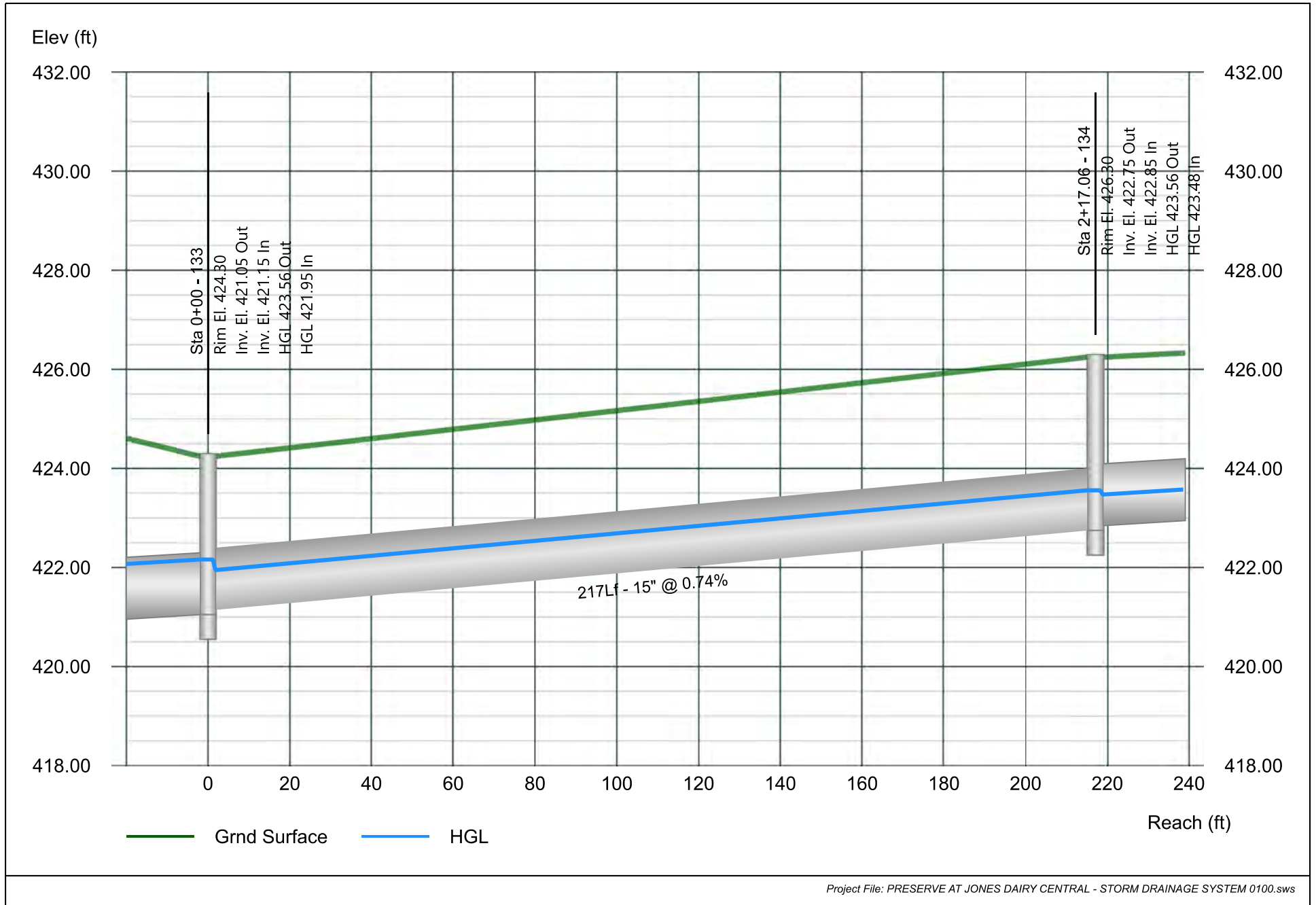


Line 34 - 134 TO 133

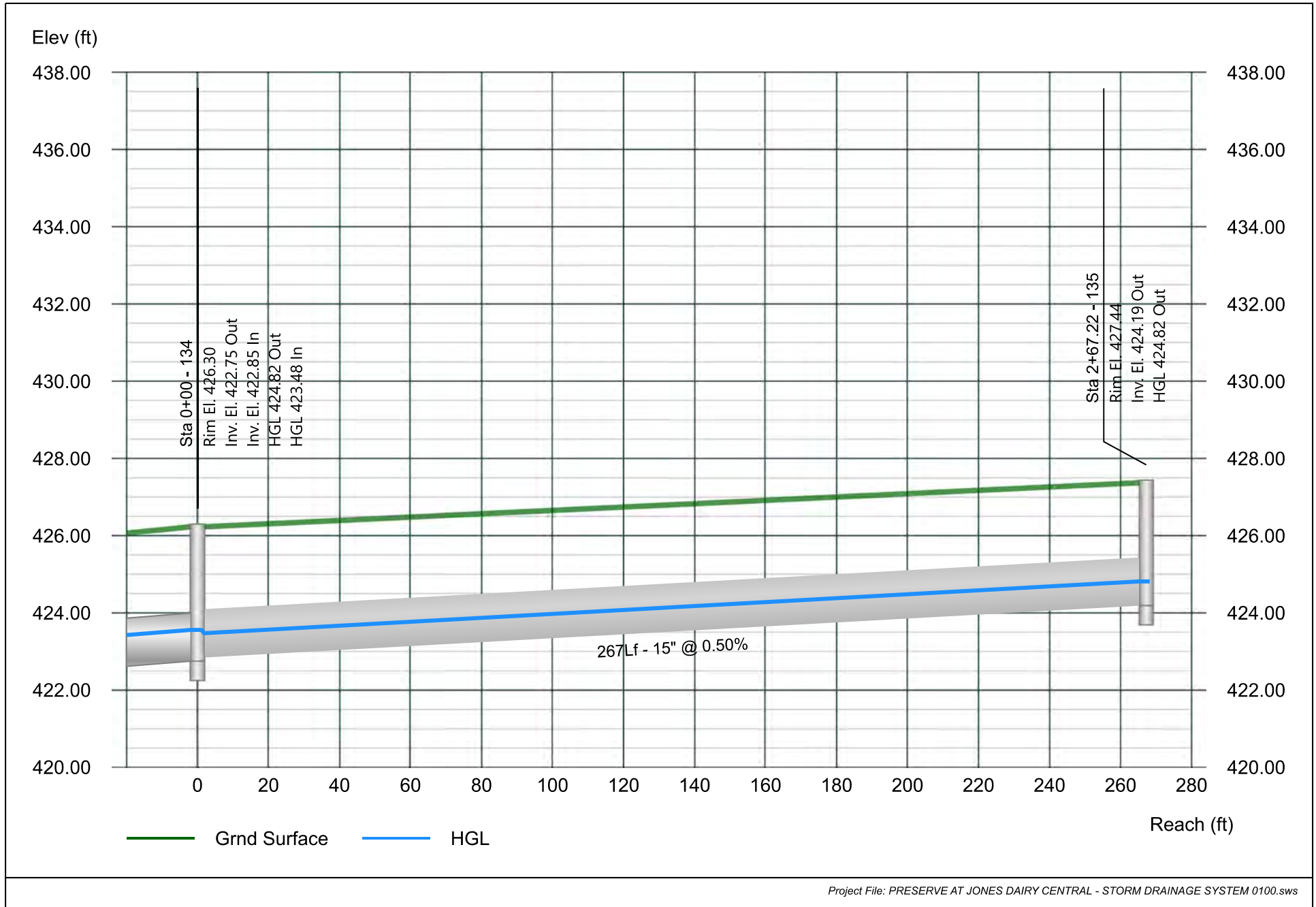
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 35 - 135 TO 134

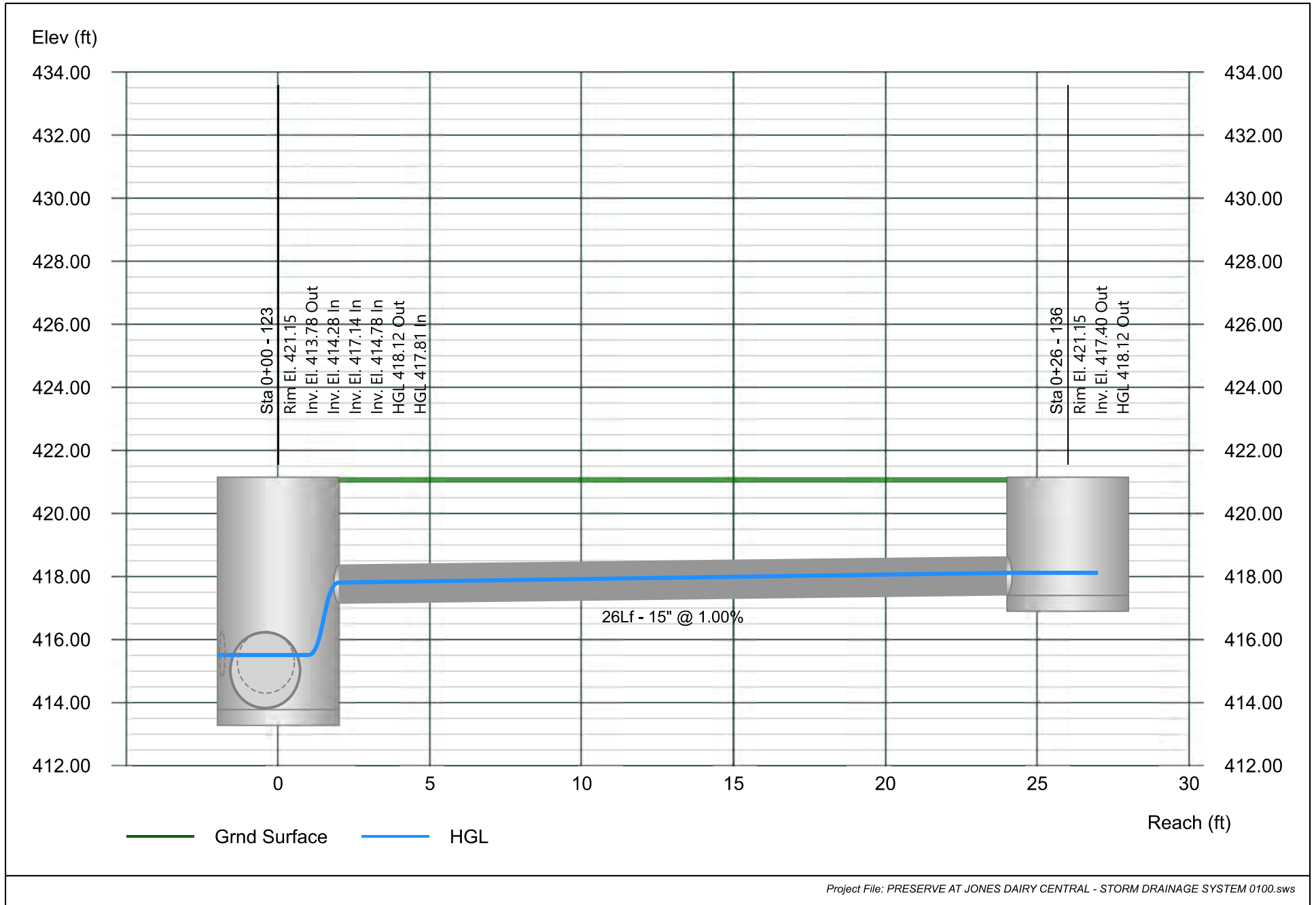


Line 36 - 136 TO 123

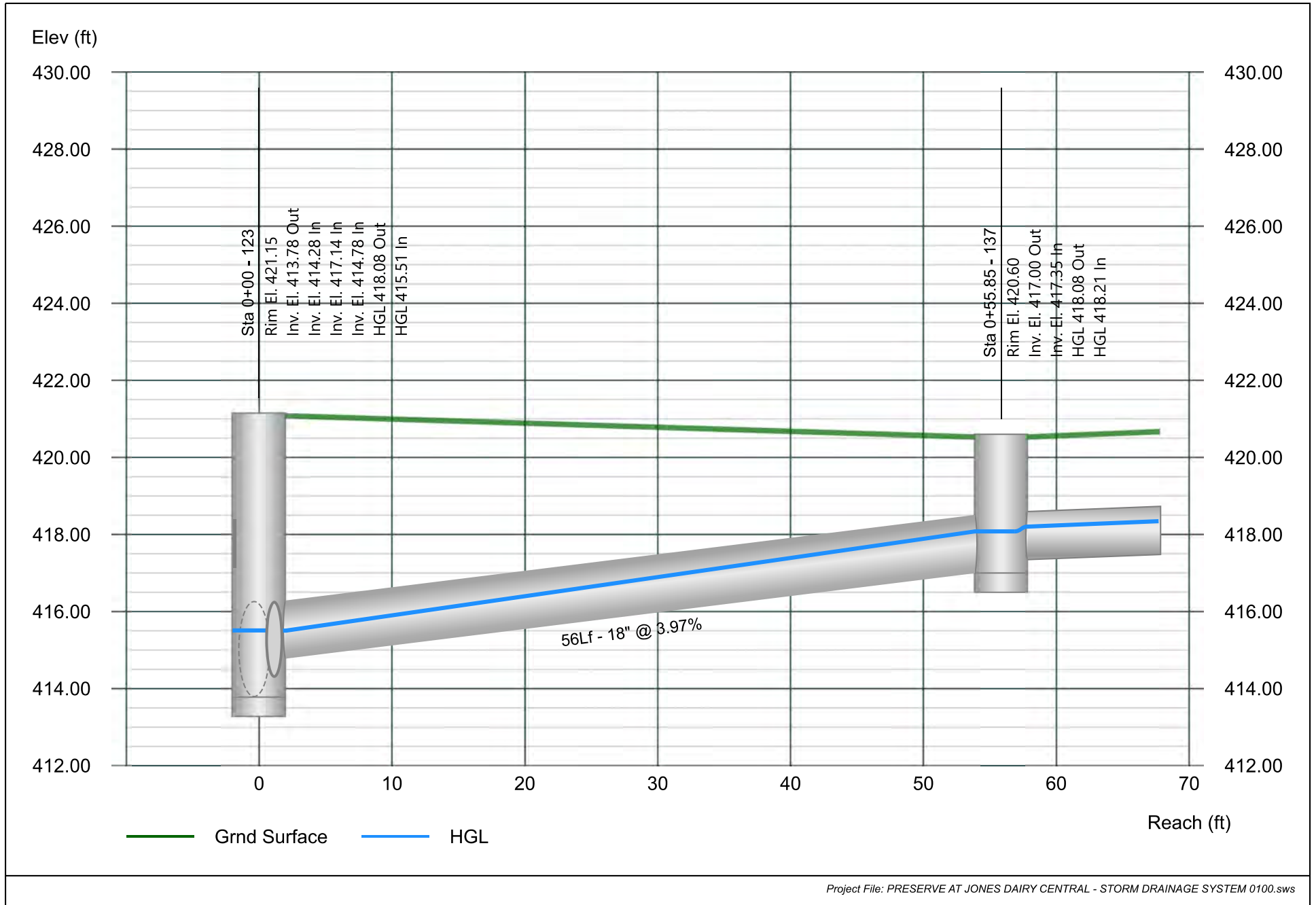
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

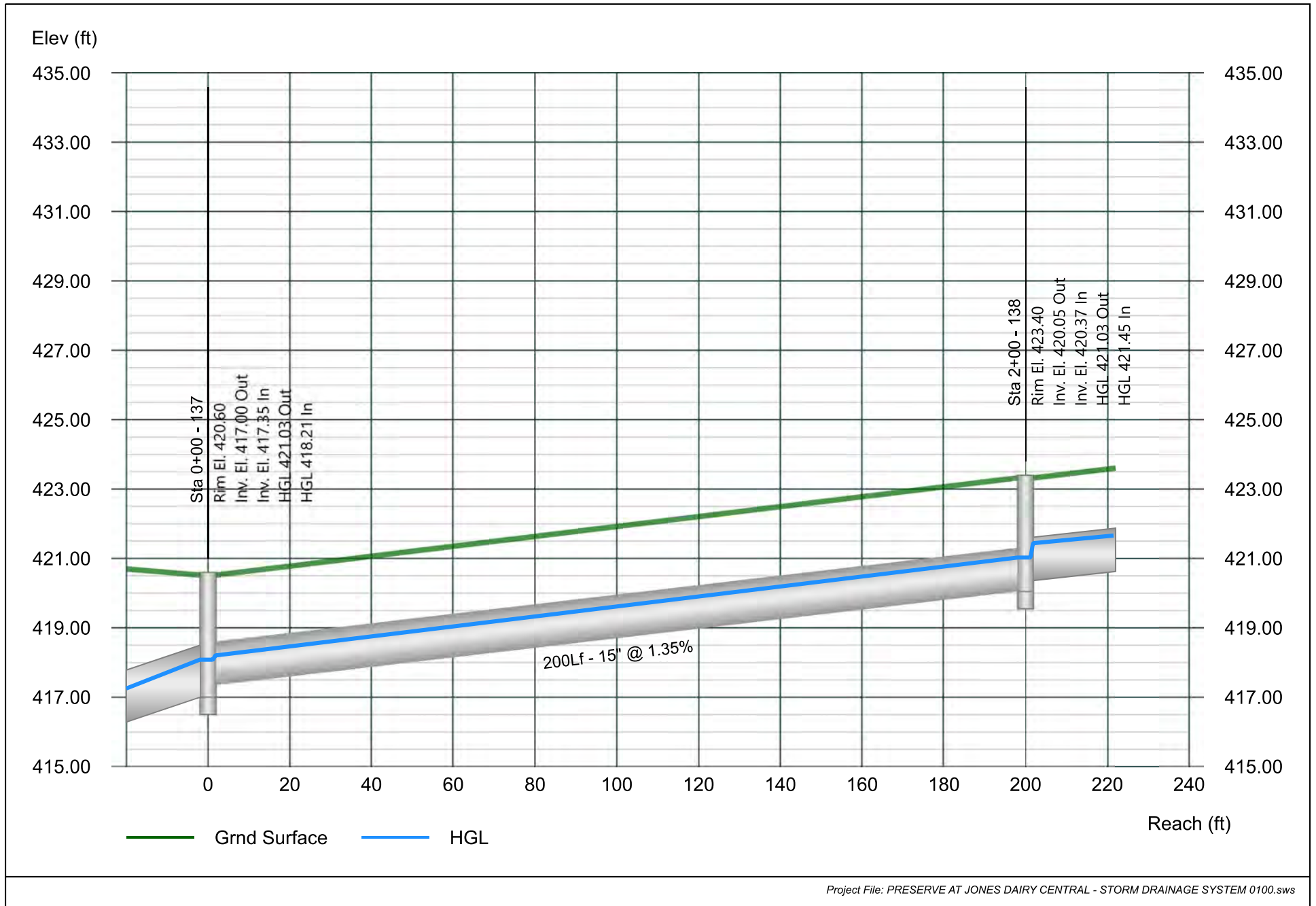
01-19-2024



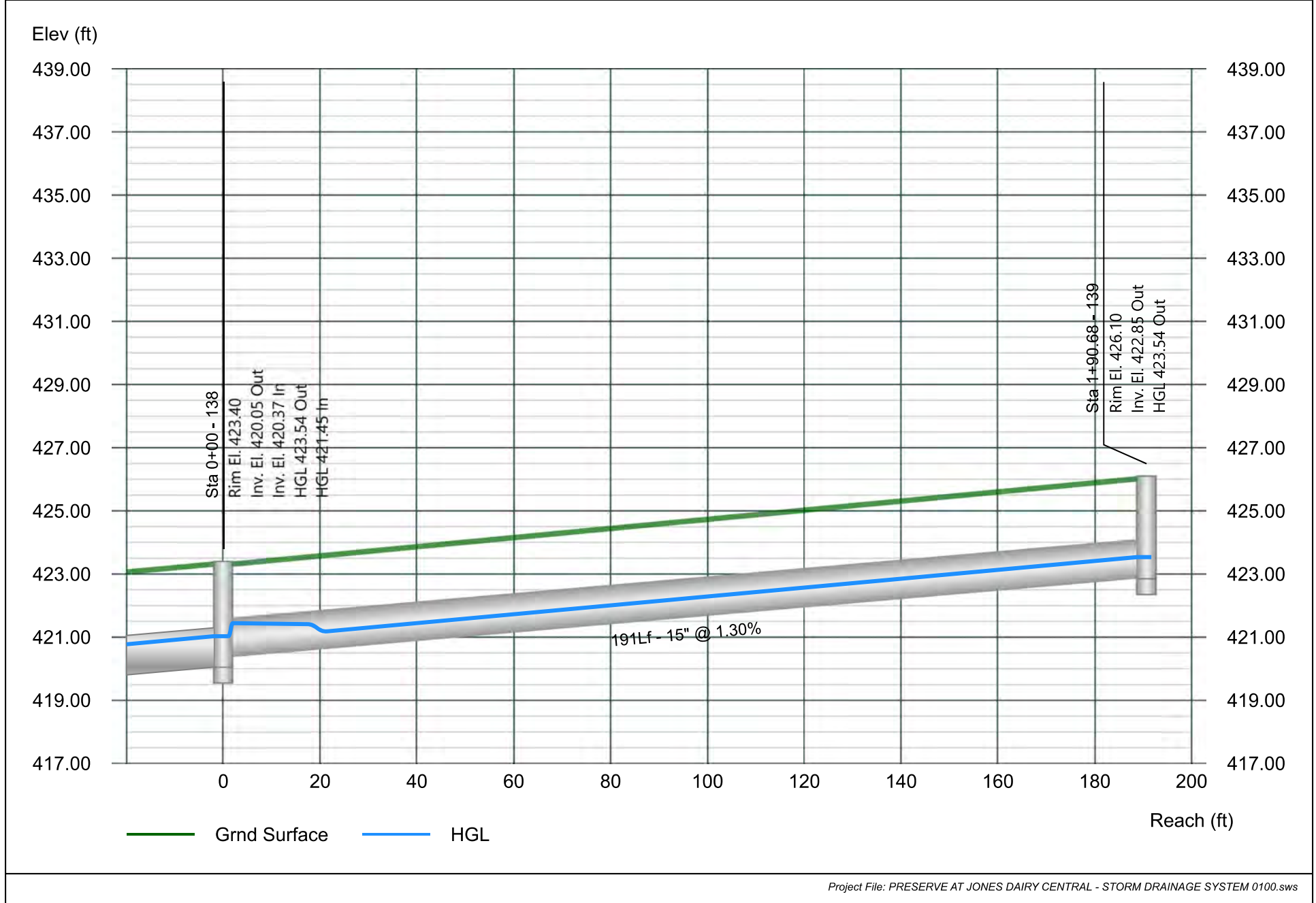
Line 37 - 137 TO 123



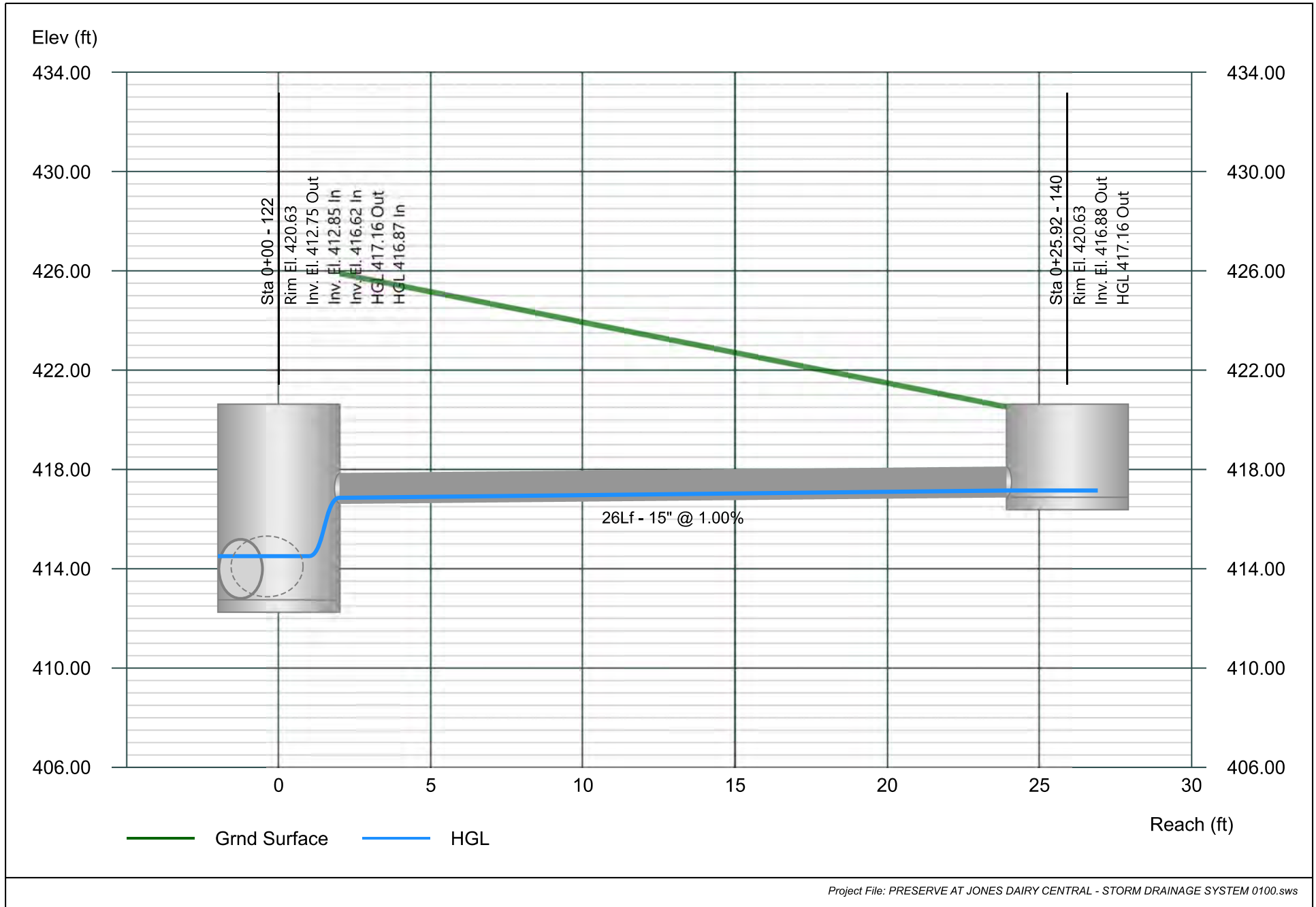
Line 38 - 138 TO 137



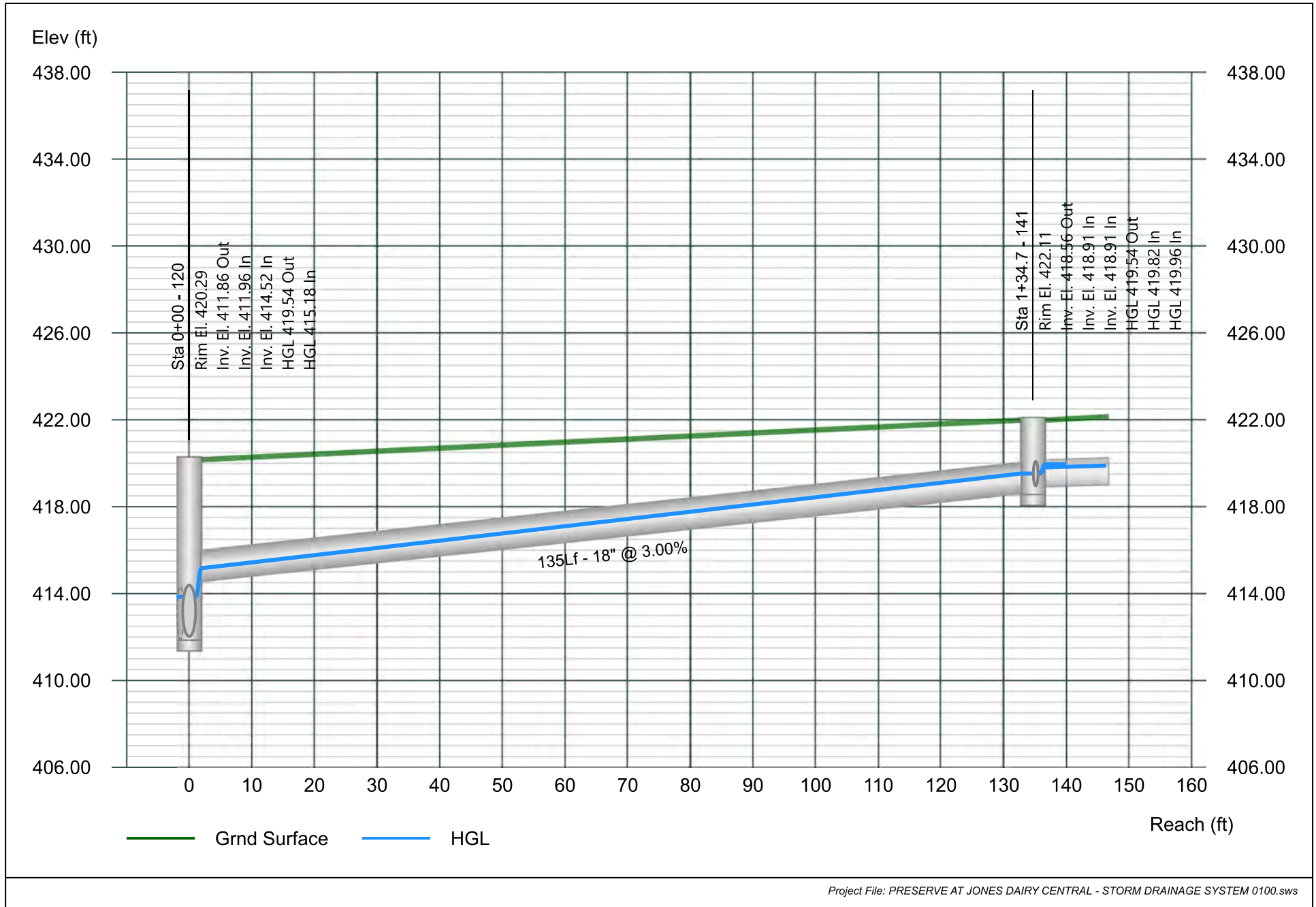
Line 39 - 139 TO 138



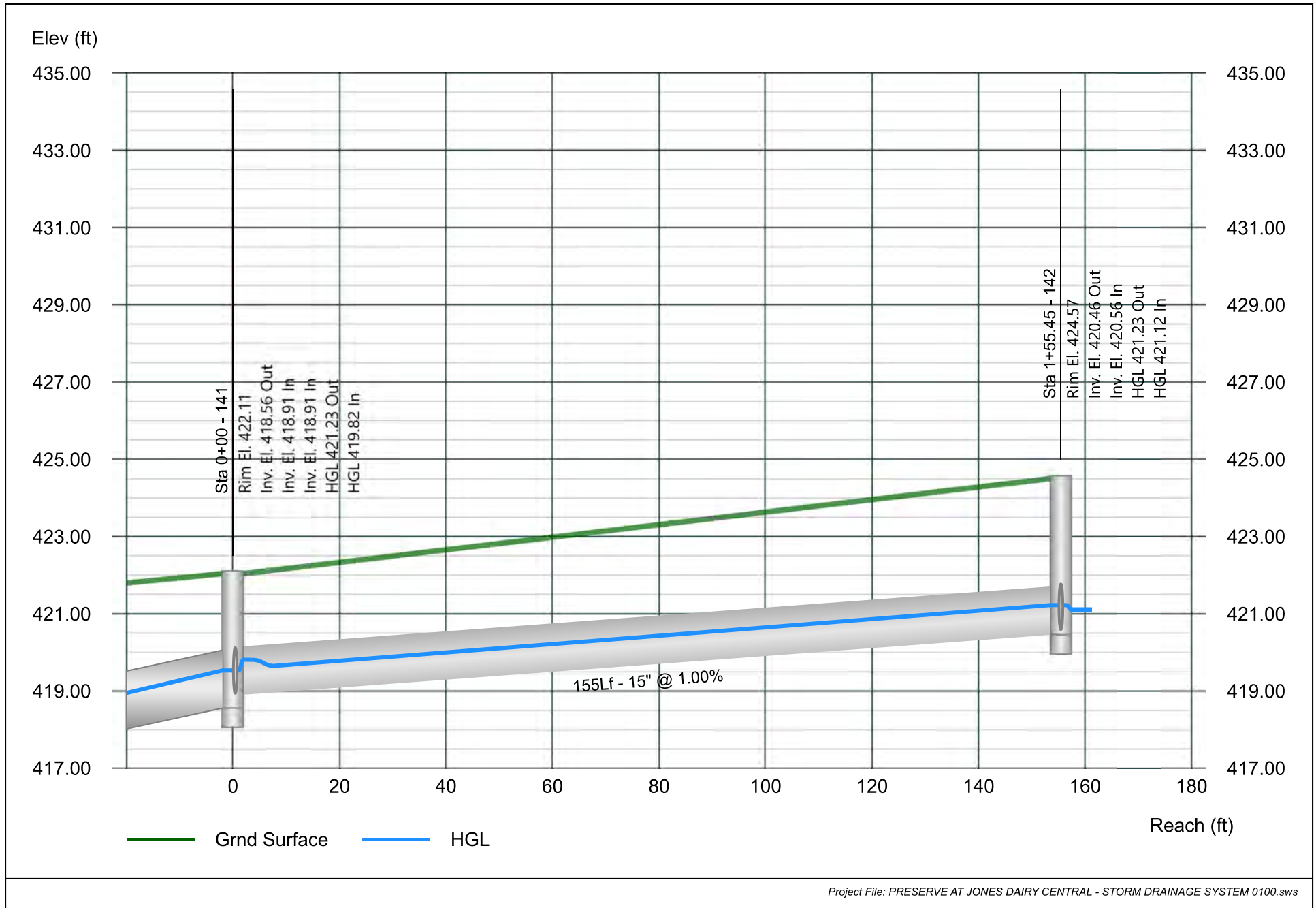
Line 40 - 140 TO 122



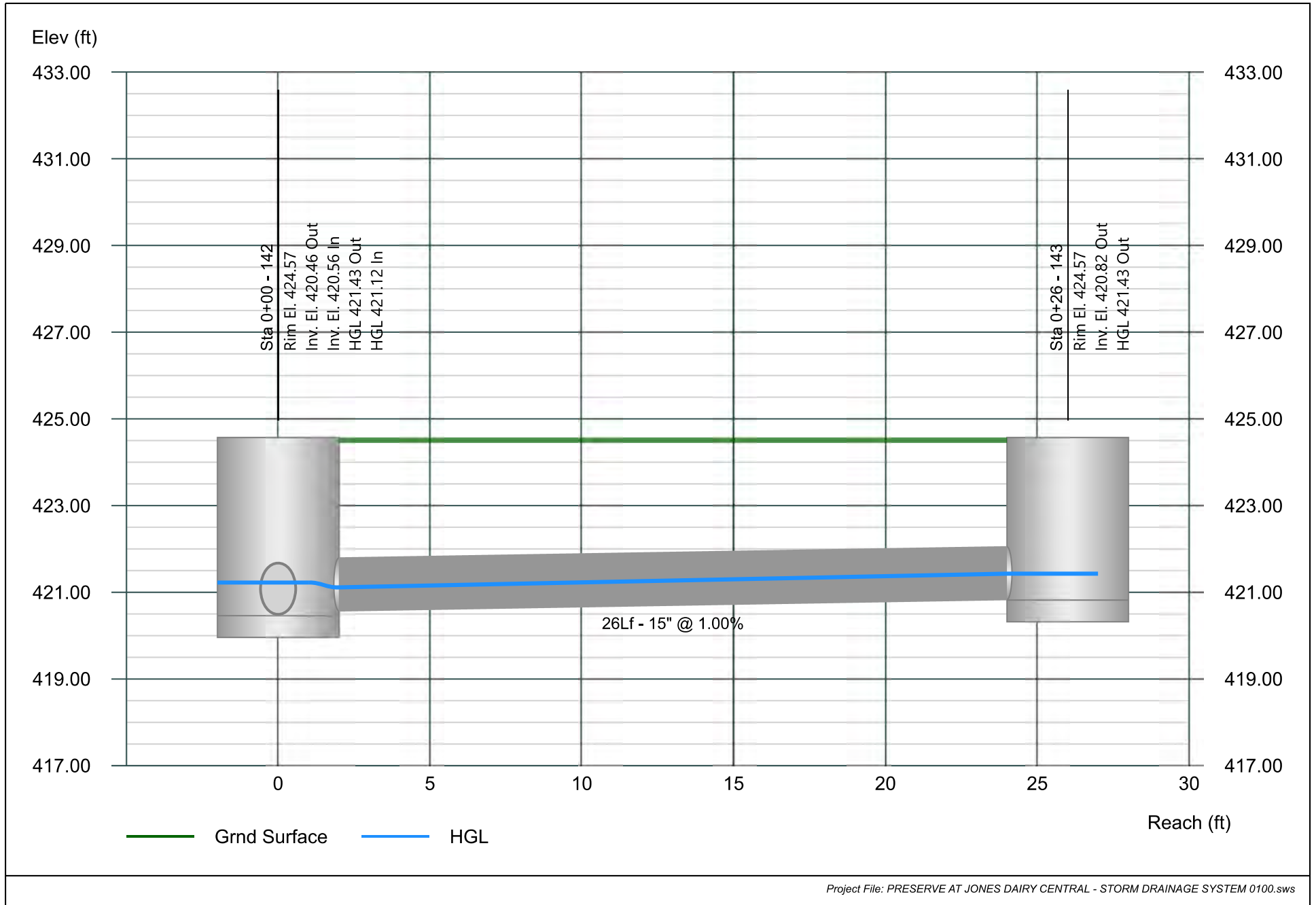
Line 41 - 141 TO 120



Line 42 - 142 TO 141



Line 43 - 143 TO 142

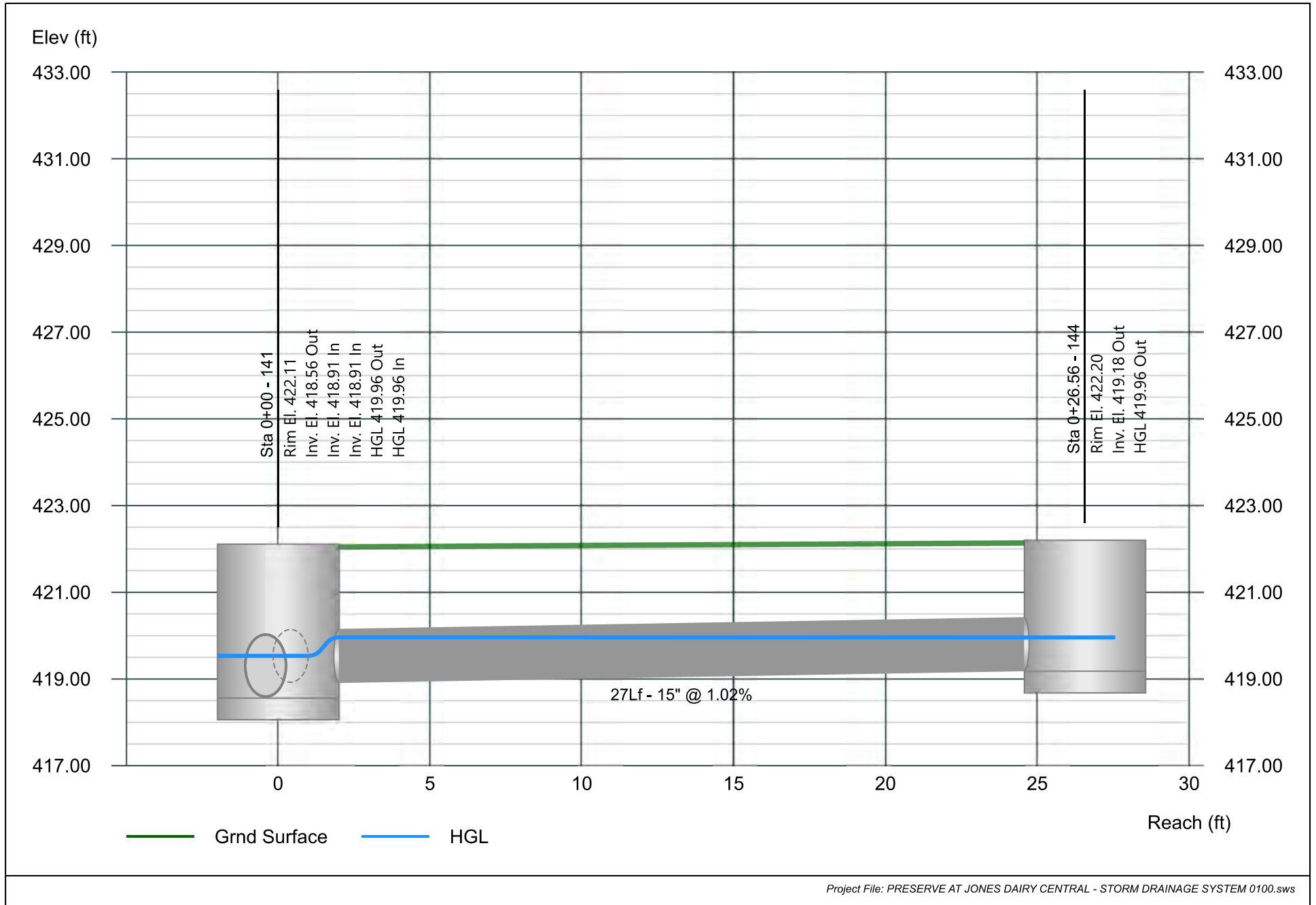


Line 44 - 144 TO 141

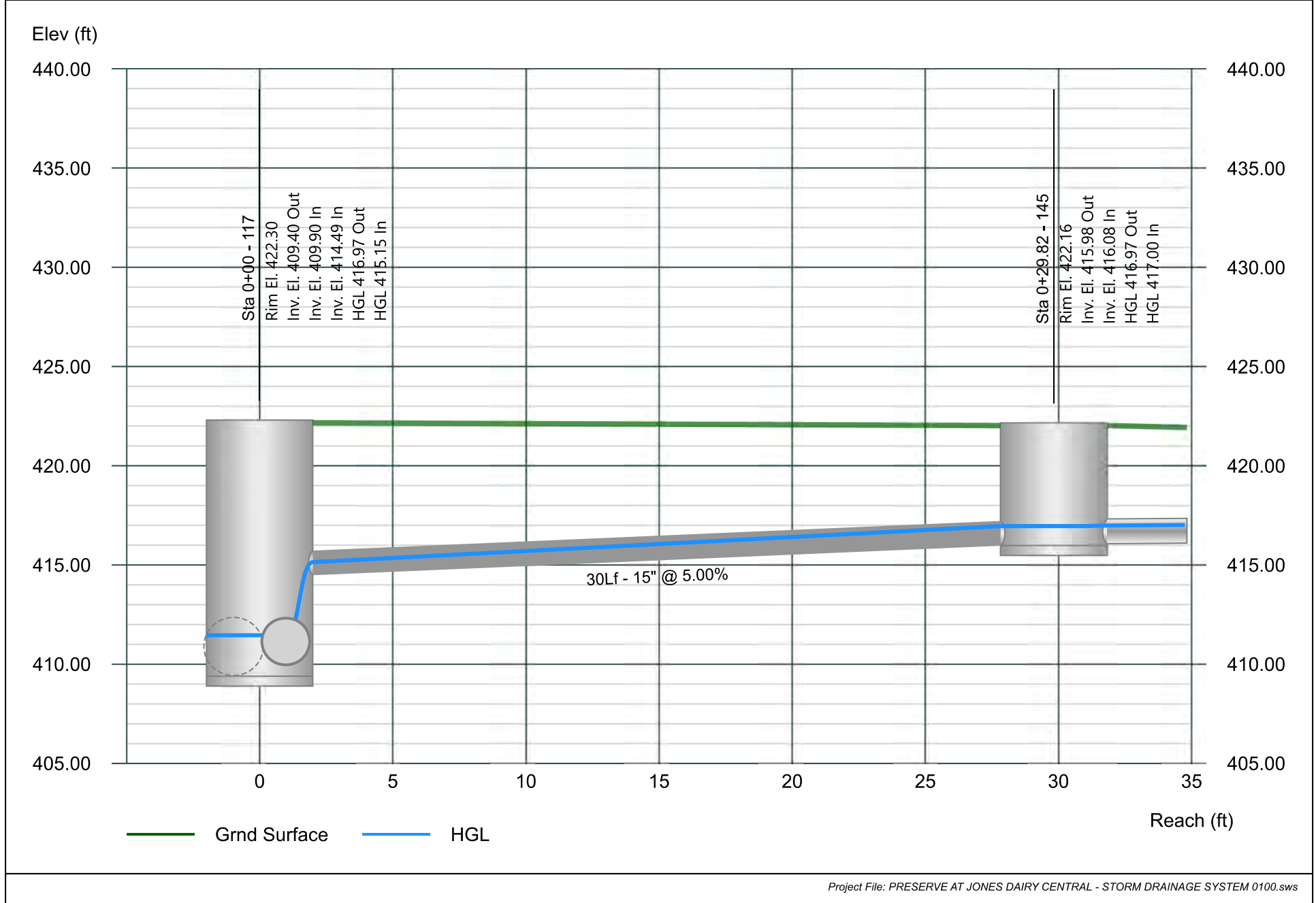
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

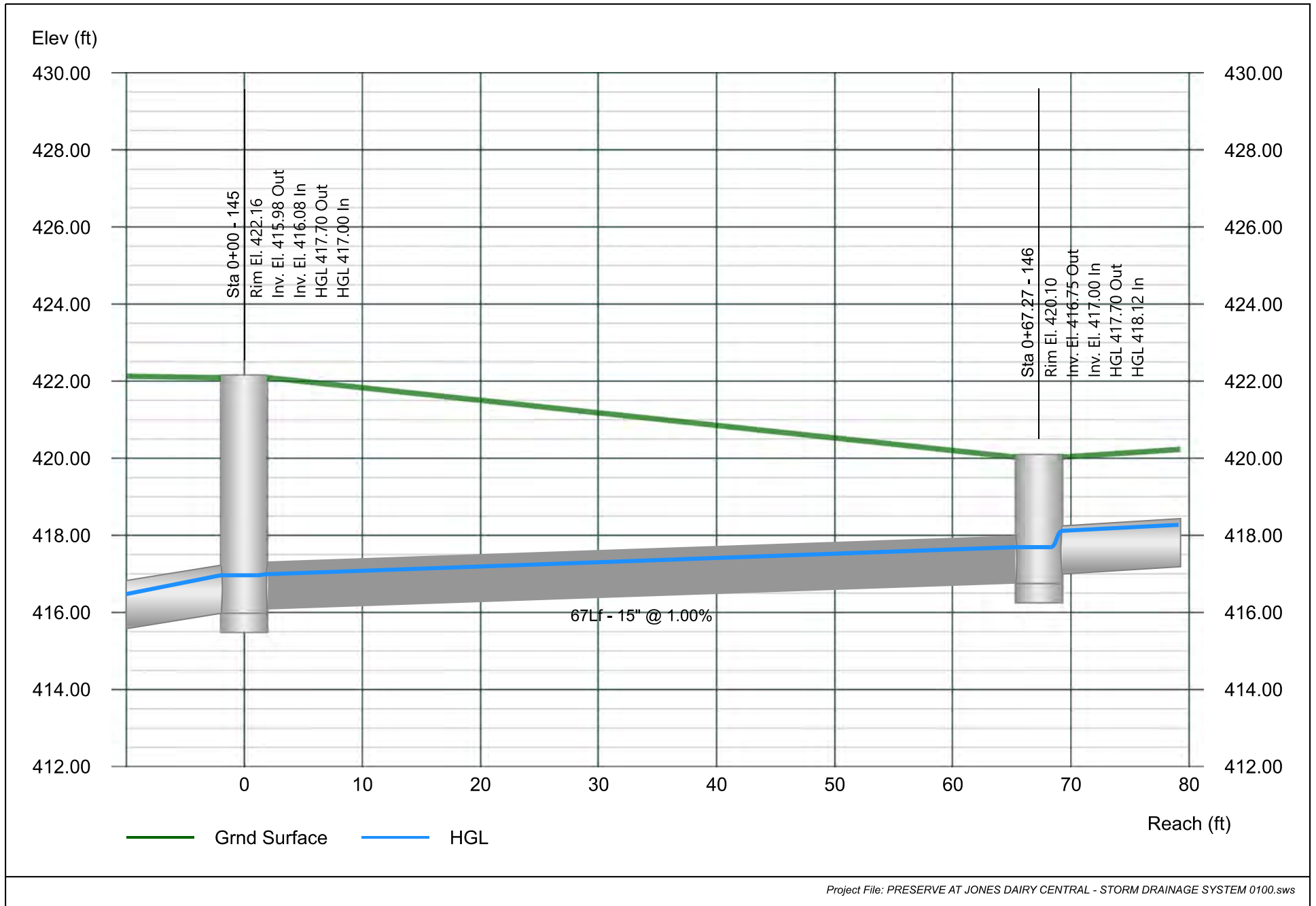
01-19-2024



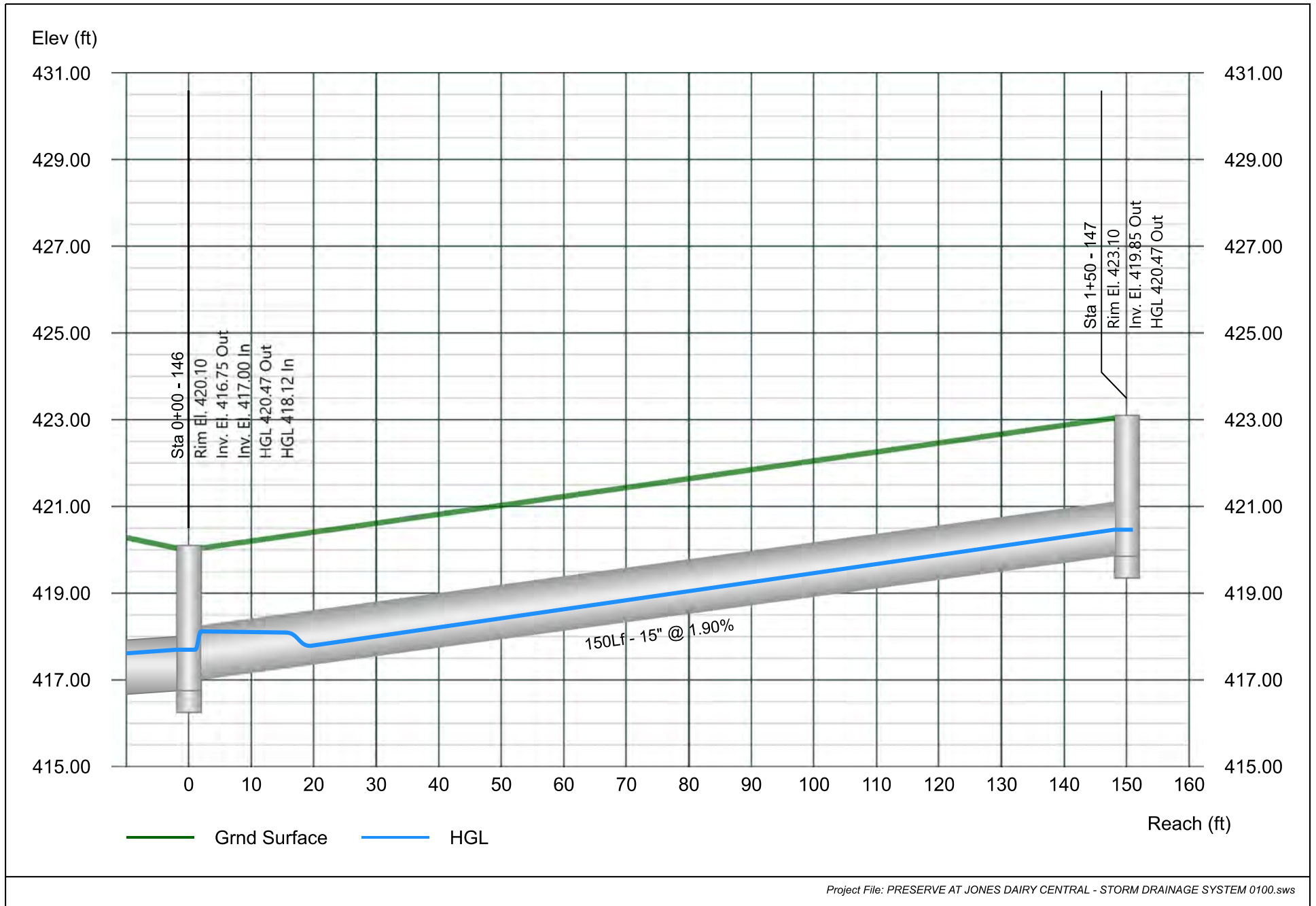
Line 45 - 145 to 117



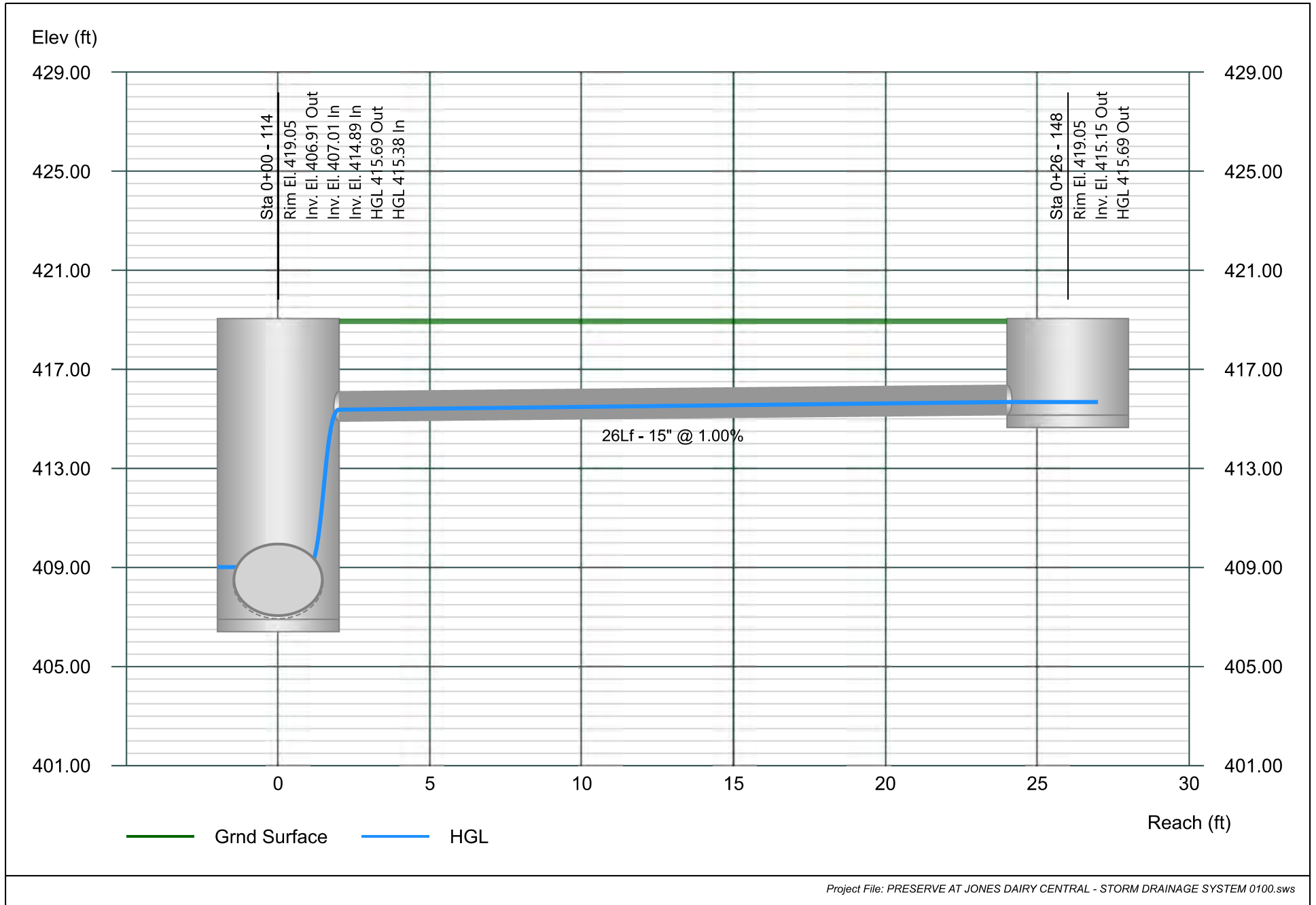
Line 46 - 146 to 145



Line 47 - 147 to 146



Line 48 - 148 TO 114

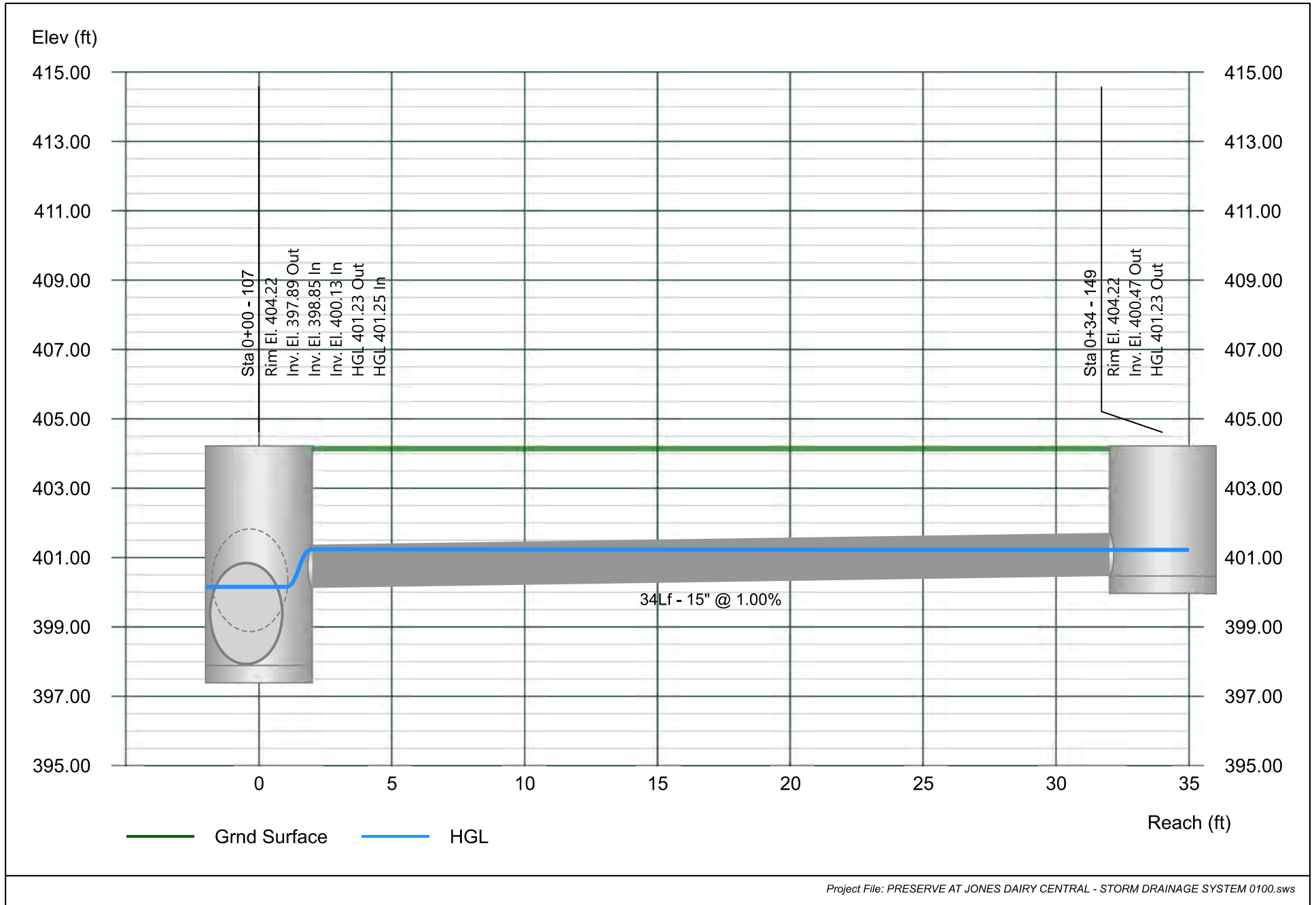


Line 49 - 149 TO 107

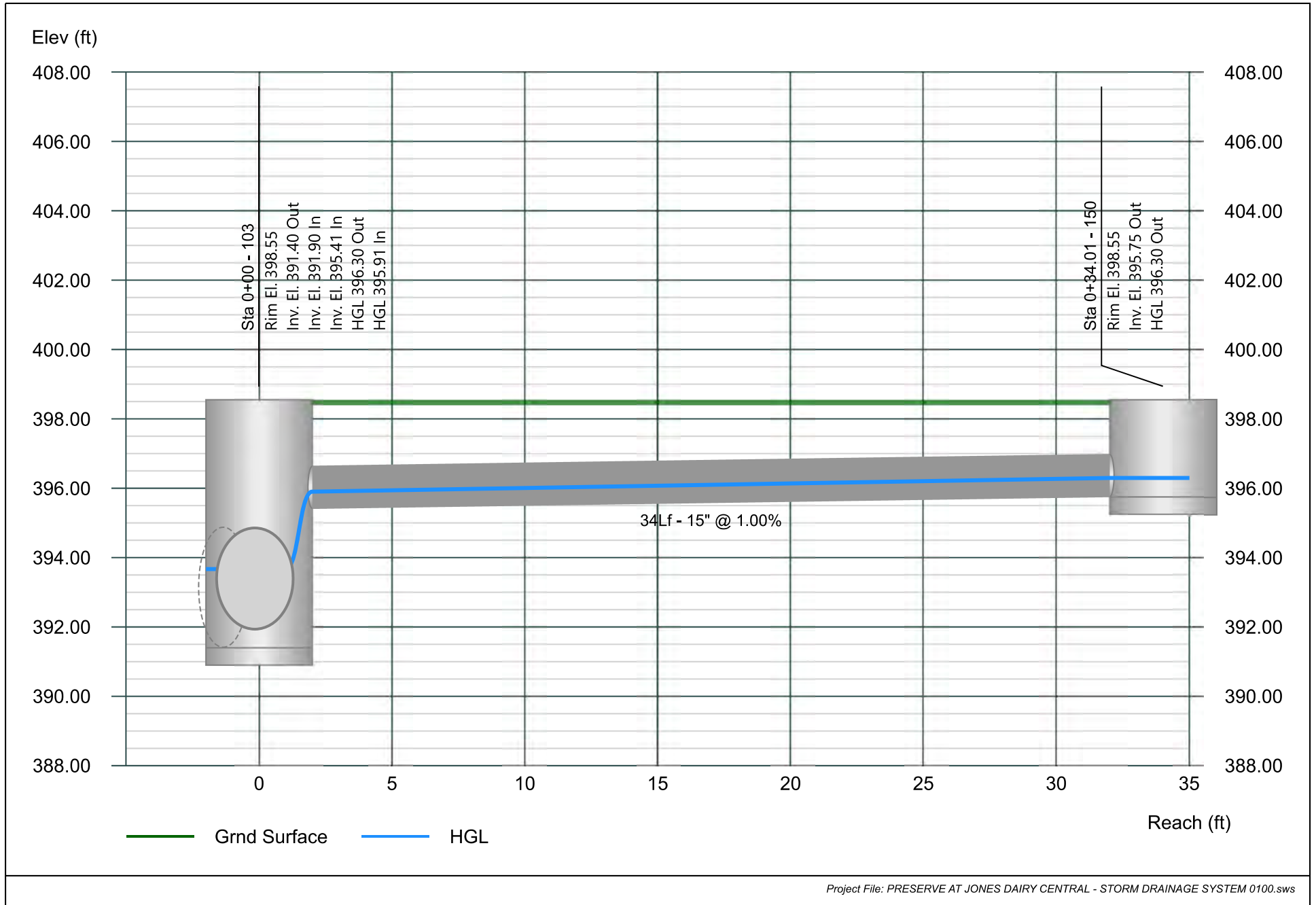
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

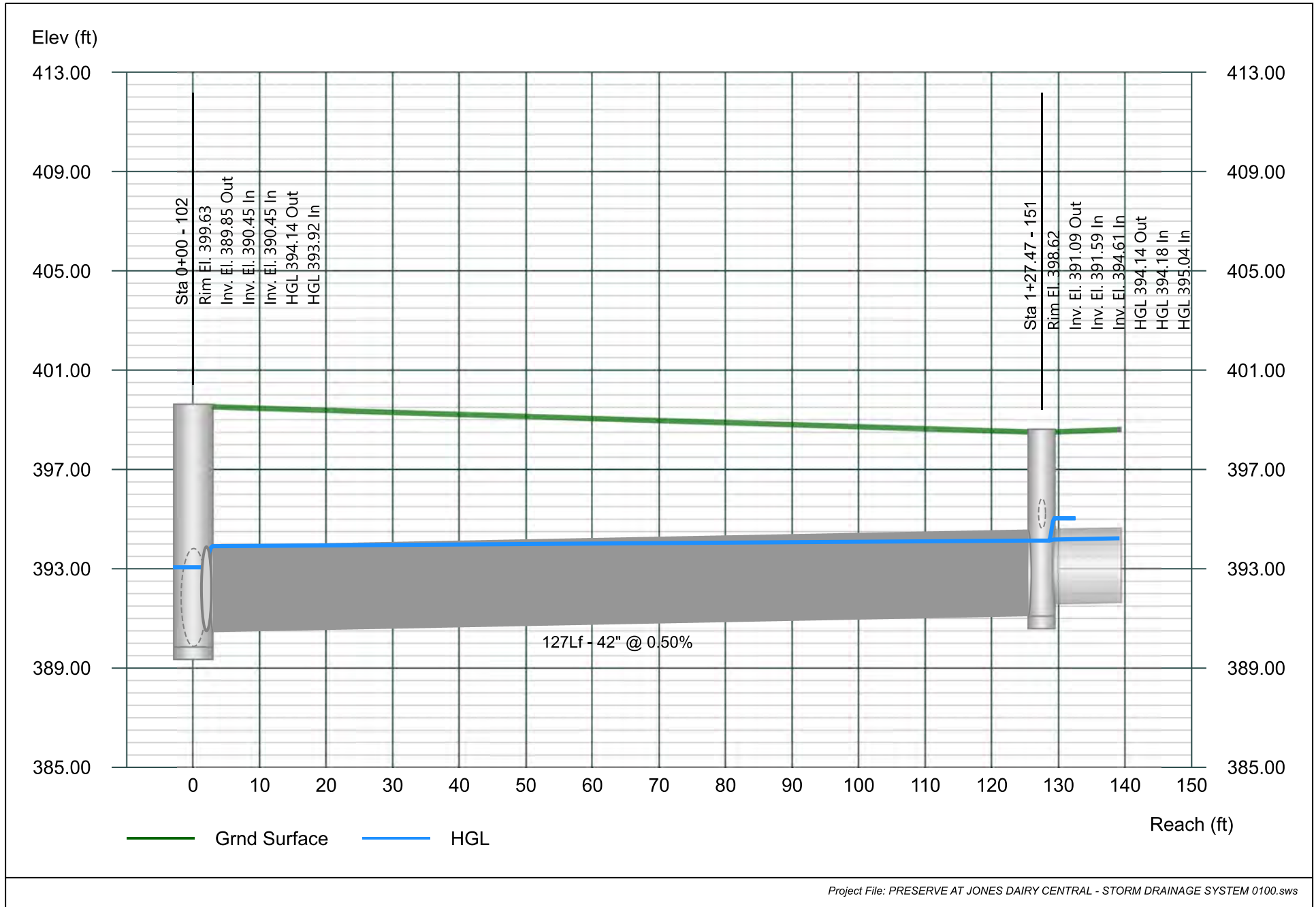
01-19-2024



Line 50 - 150 TO 103



Line 51 - 151 TO 102

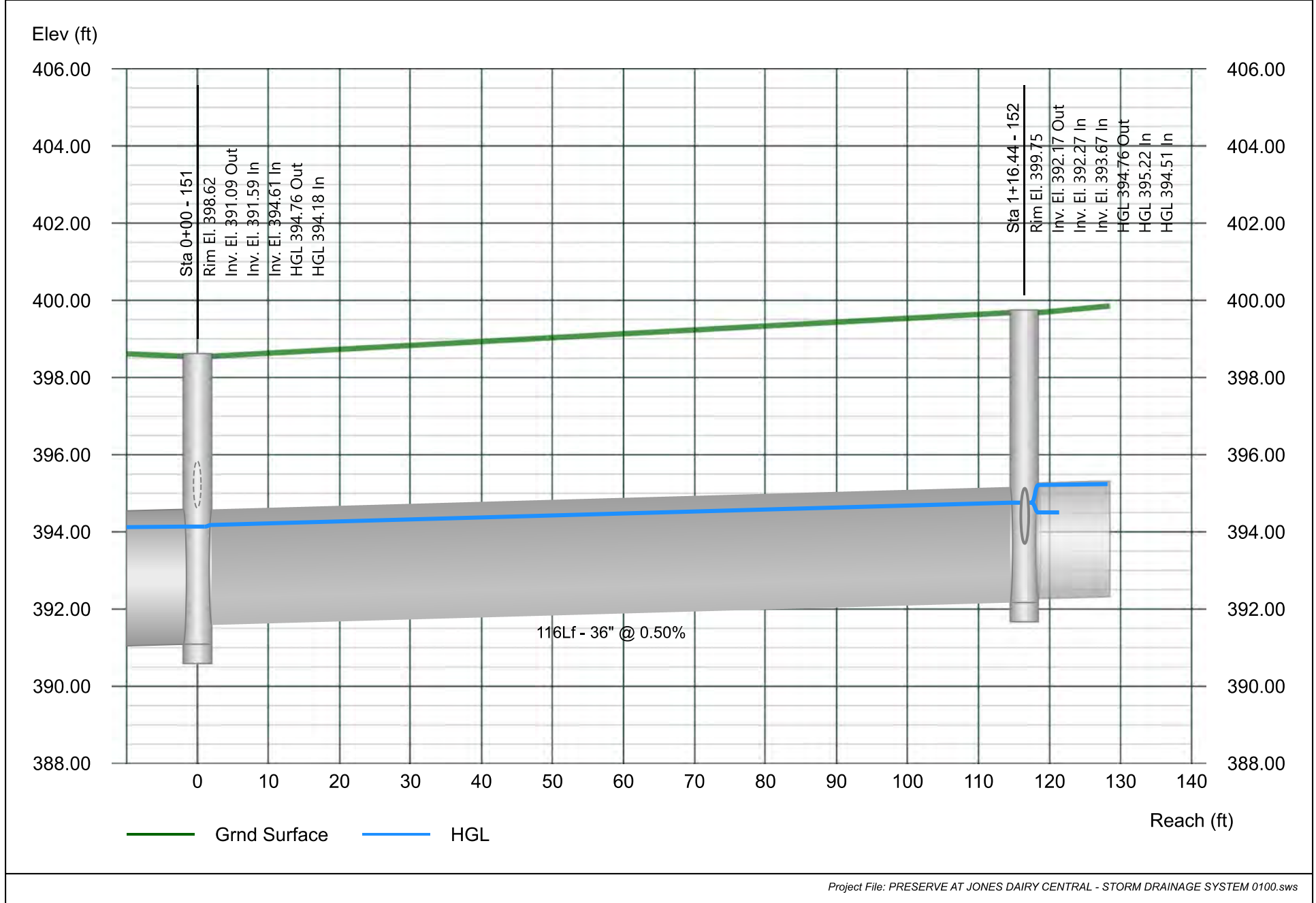


Line 52 - 152 TO 151

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

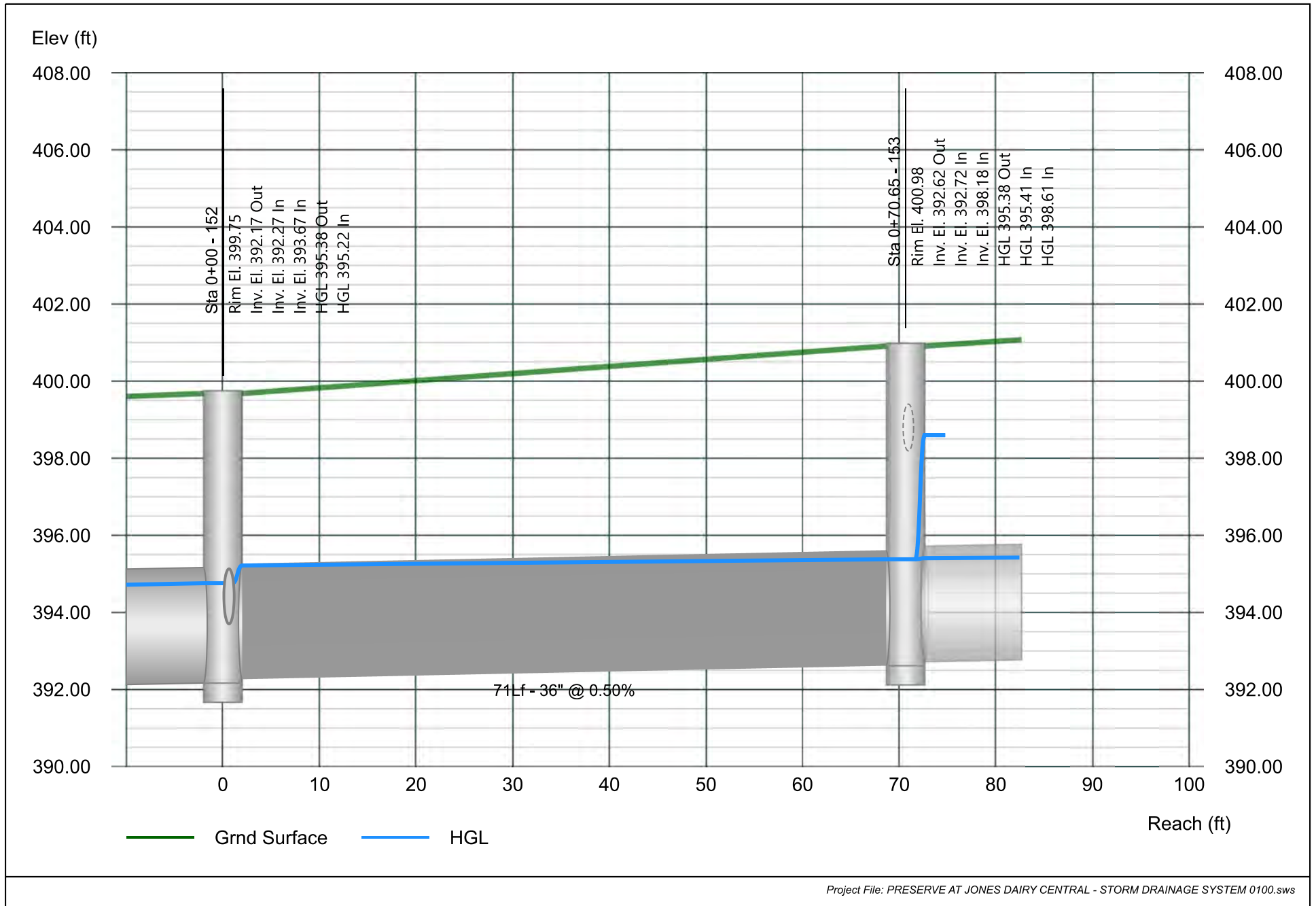


Line 53 - 153 TO 152

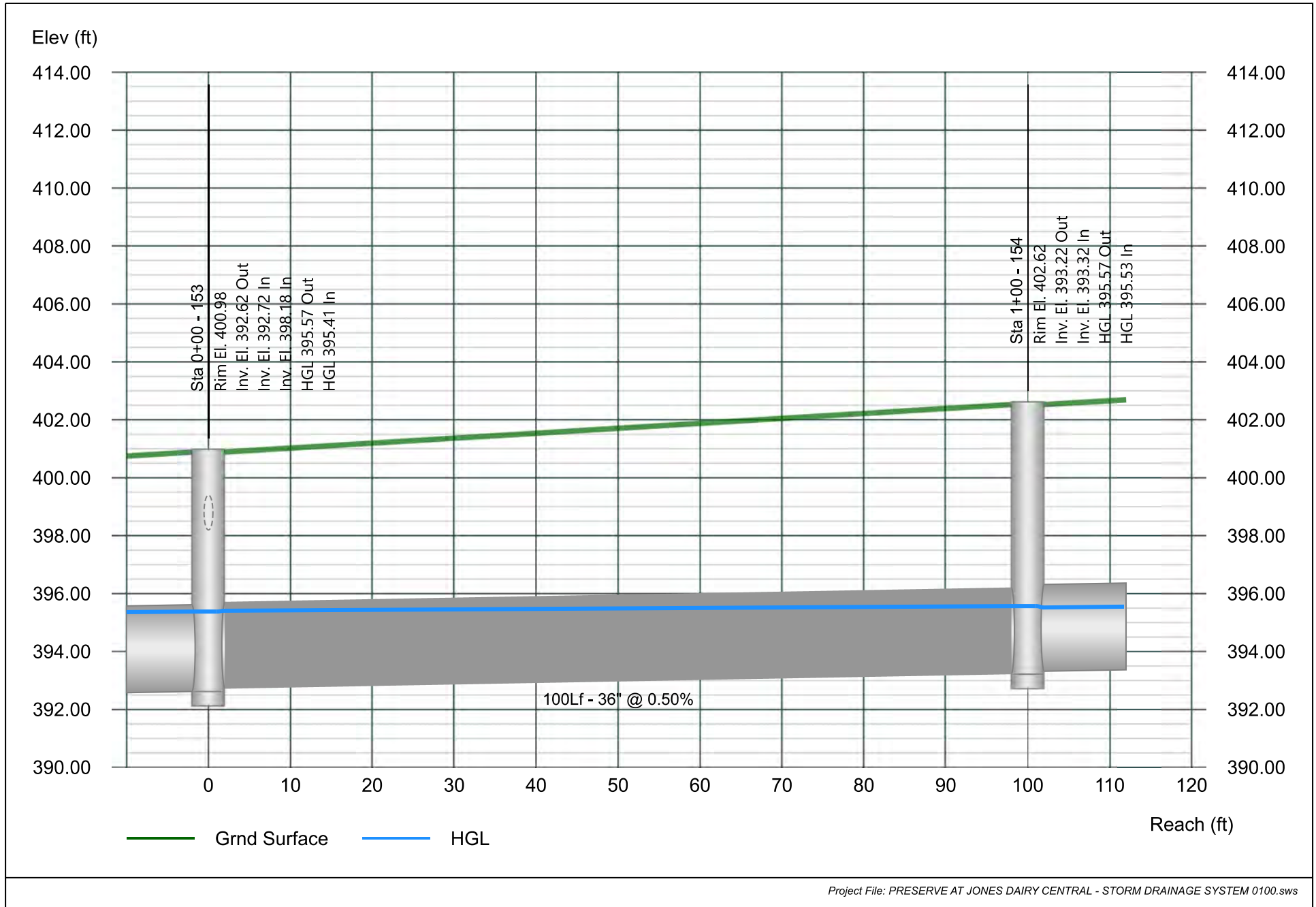
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

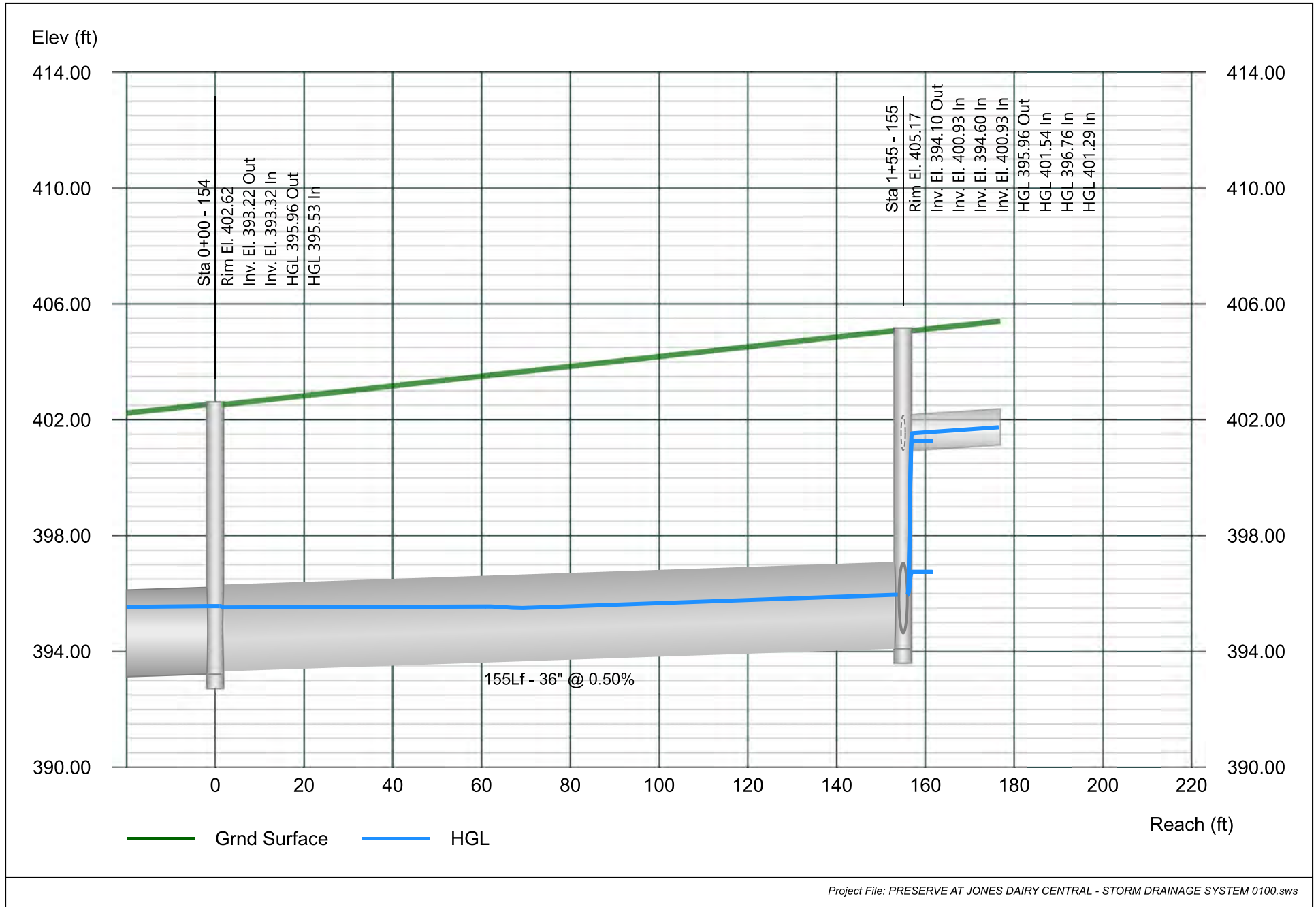
01-19-2024



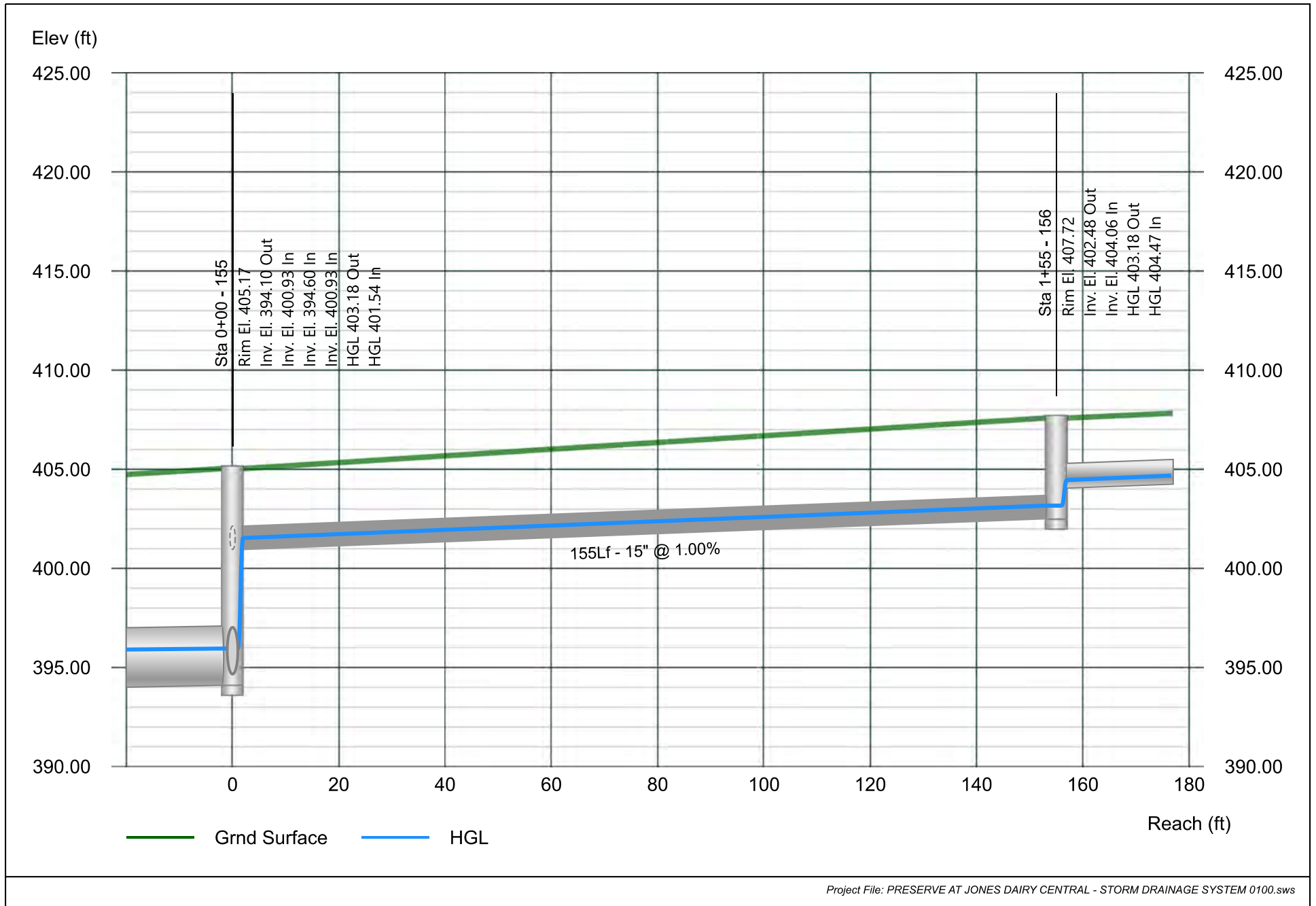
Line 54 - 154 TO 153



Line 55 - 155 TO 154



Line 56 - 156 TO 155

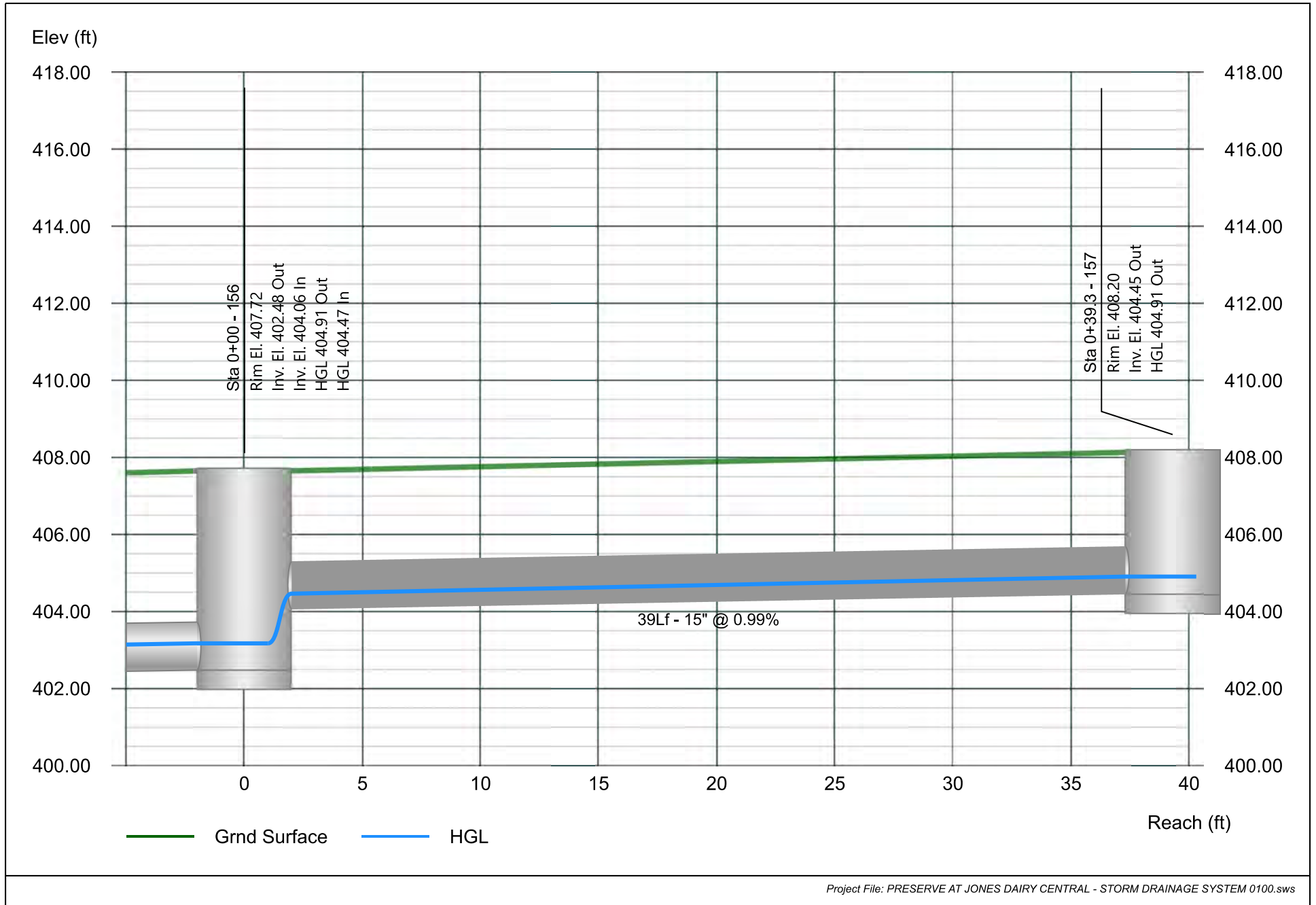


Line 57 - 157 TO 156

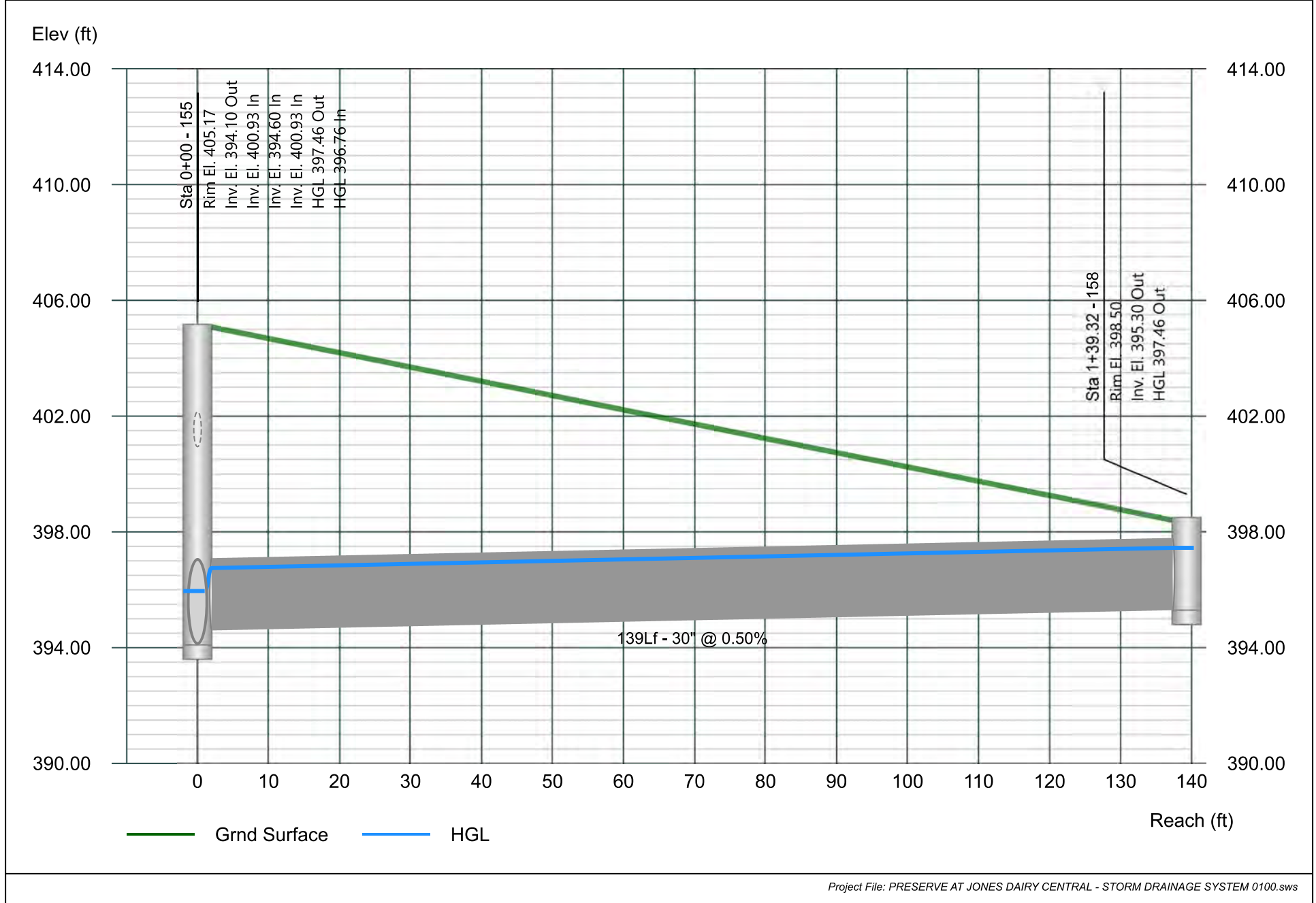
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

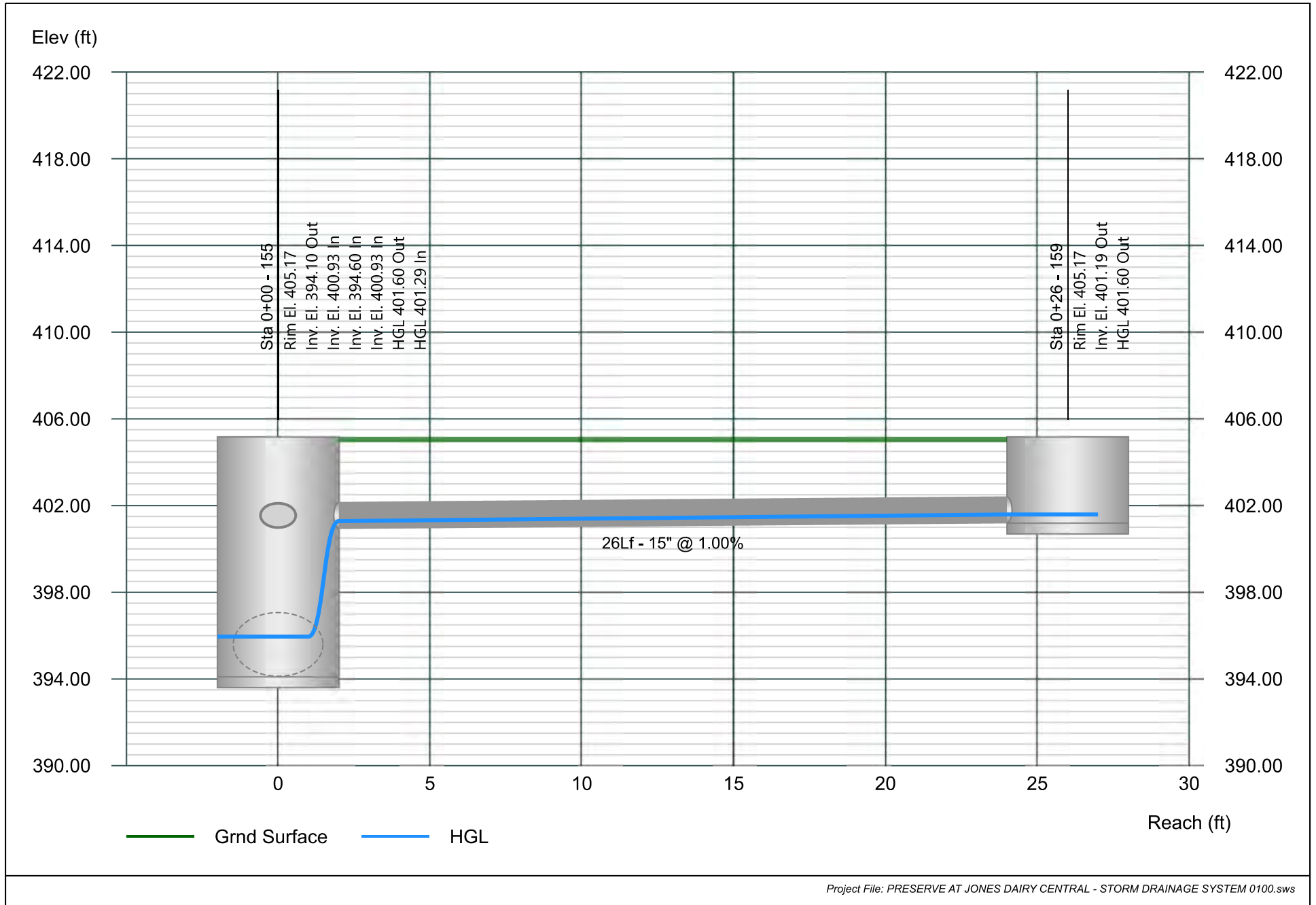
01-19-2024



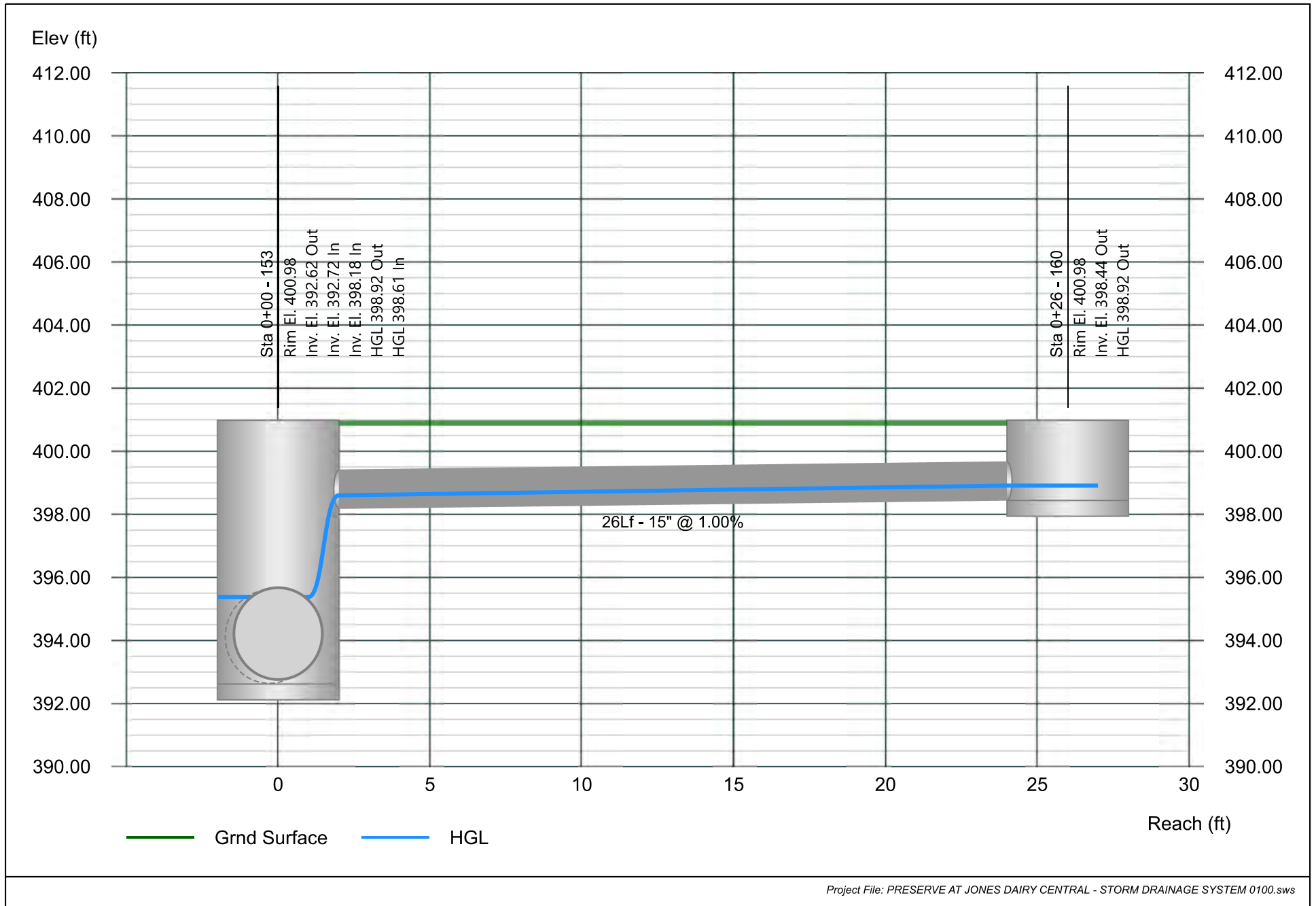
Line 58 - 158 TO 155



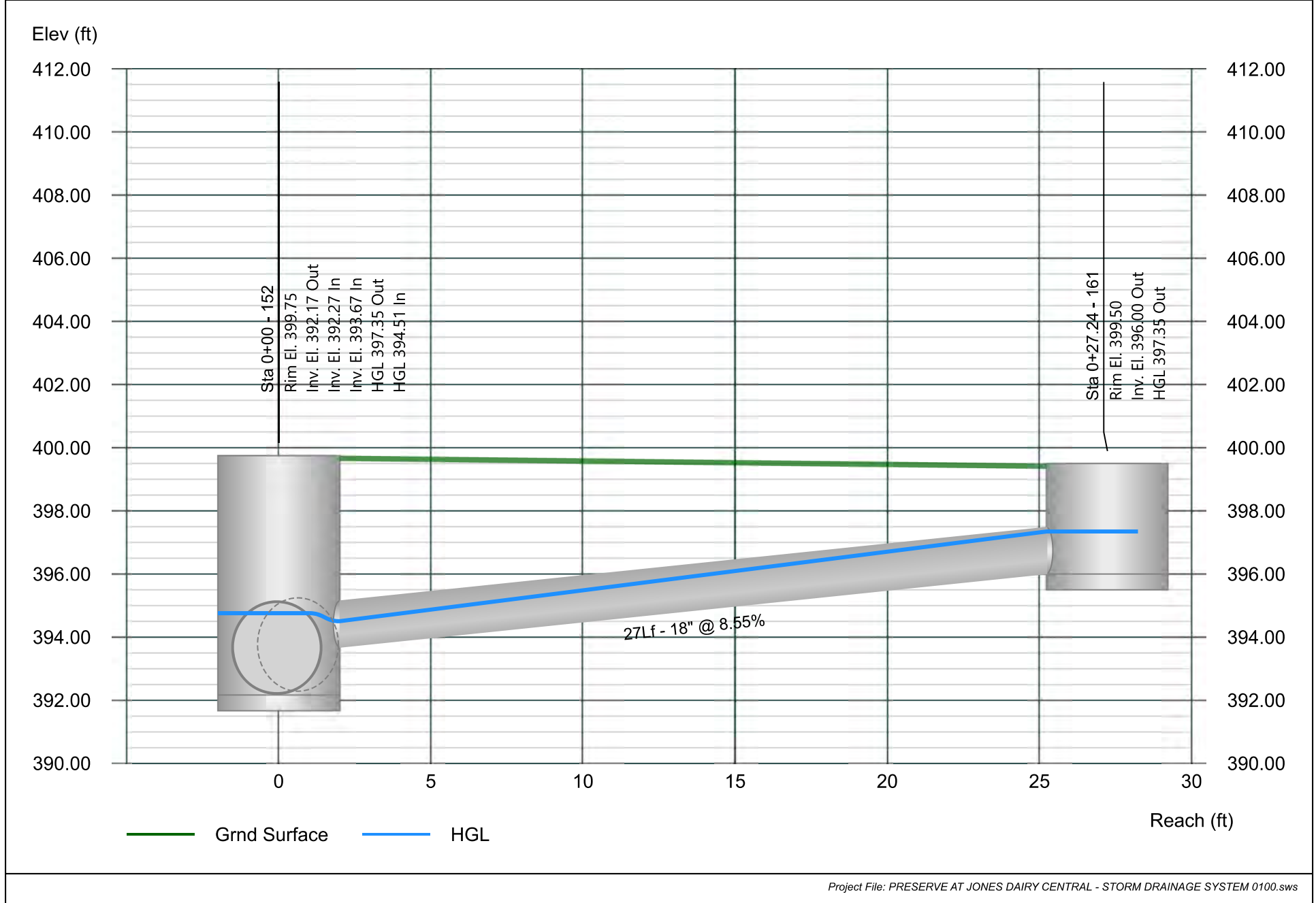
Line 59 - 159 TO 155



Line 60 - 160 TO 153



Line 61 - 161 TO 152

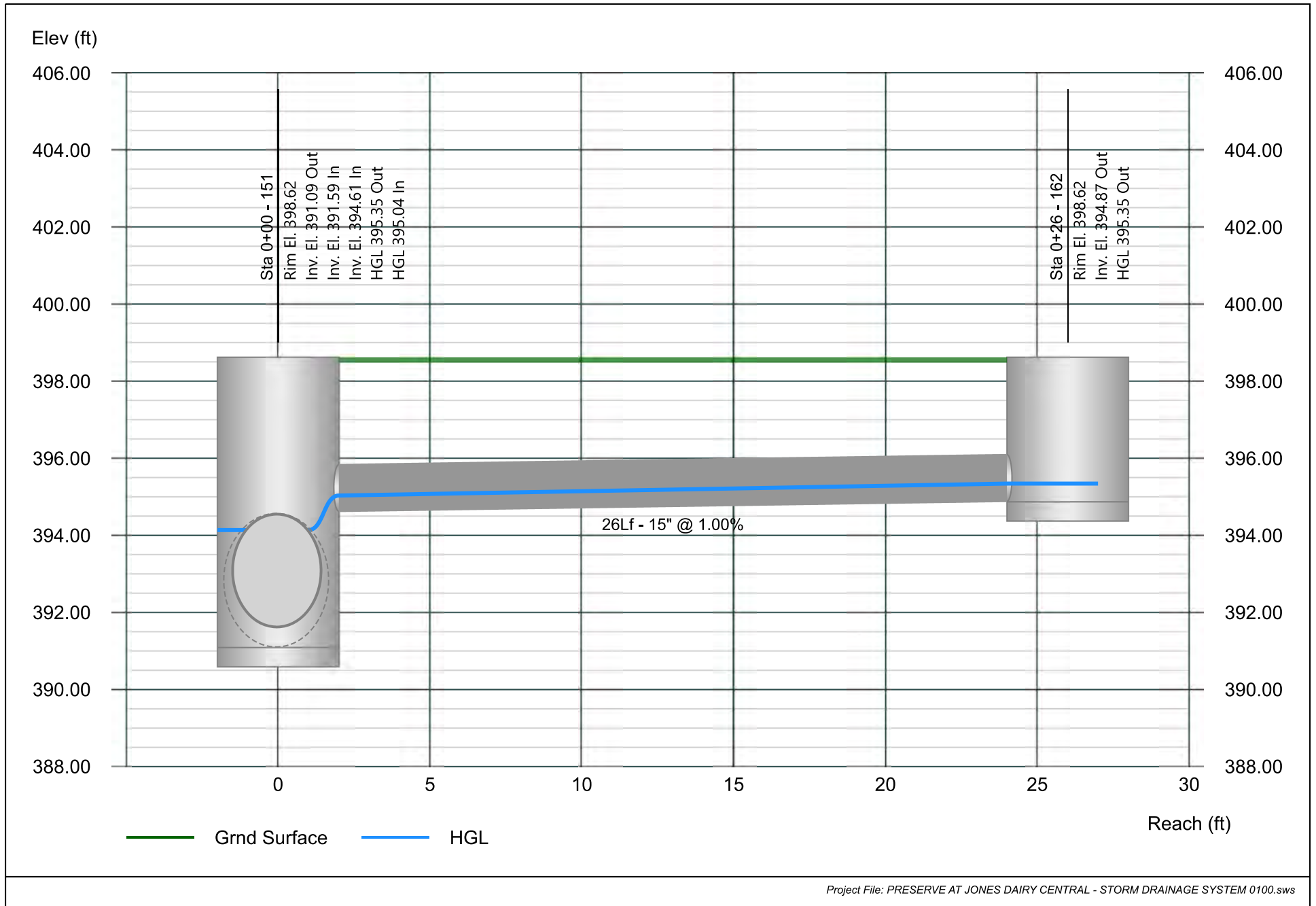


Line 62 - 163 TO 151

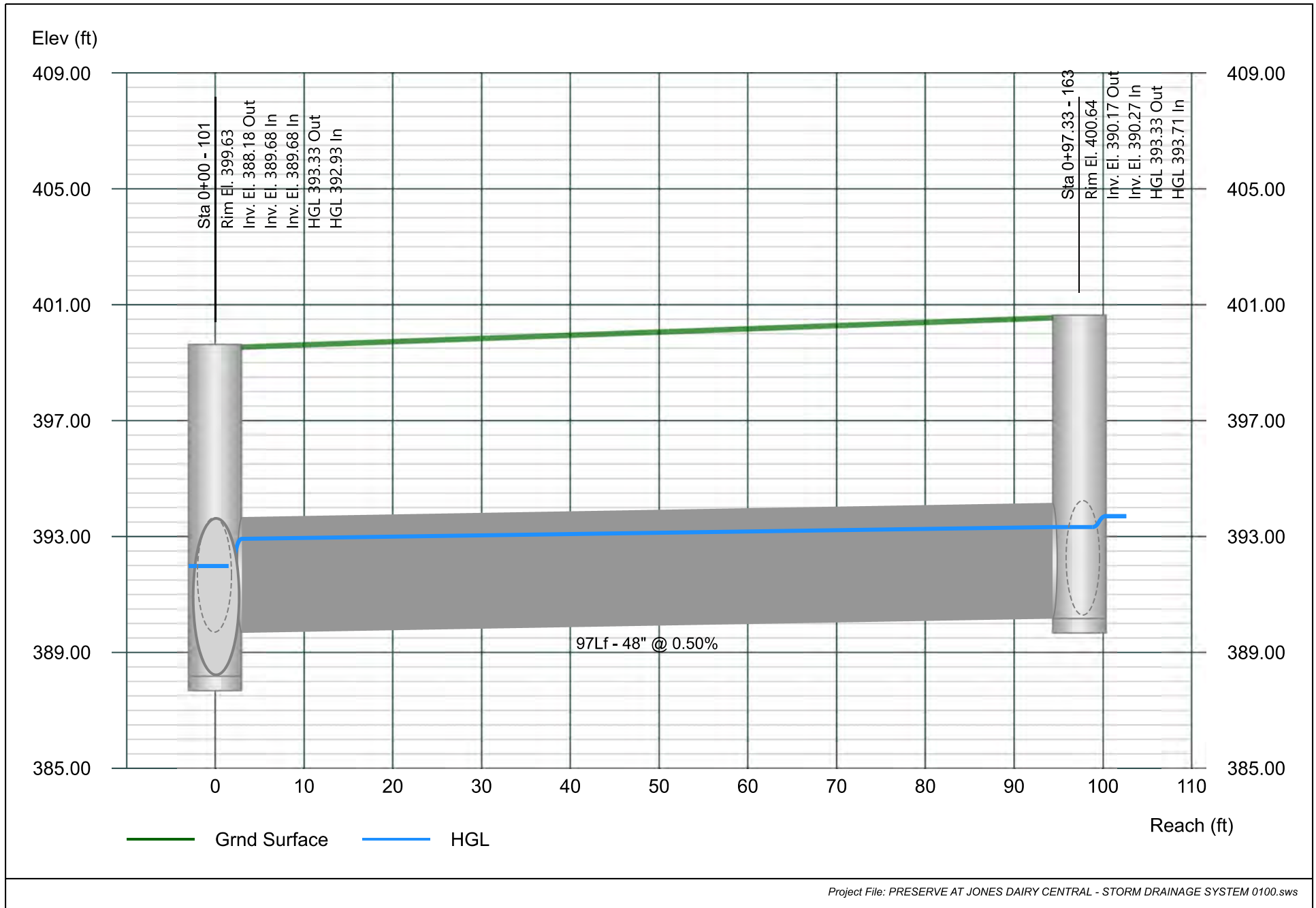
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

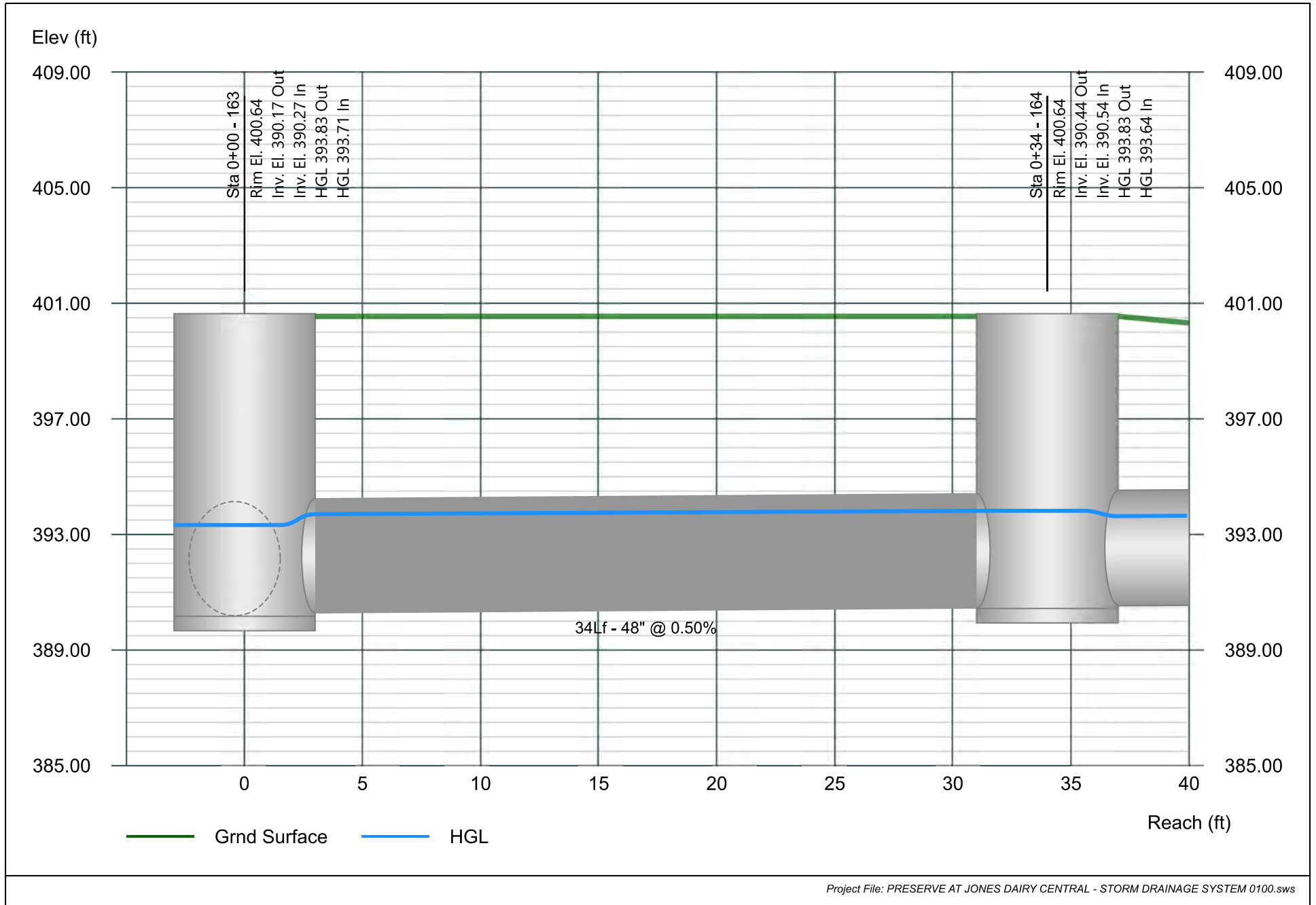
01-19-2024



Line 63 - 163 TO 101



Line 64 - 164 TO 163

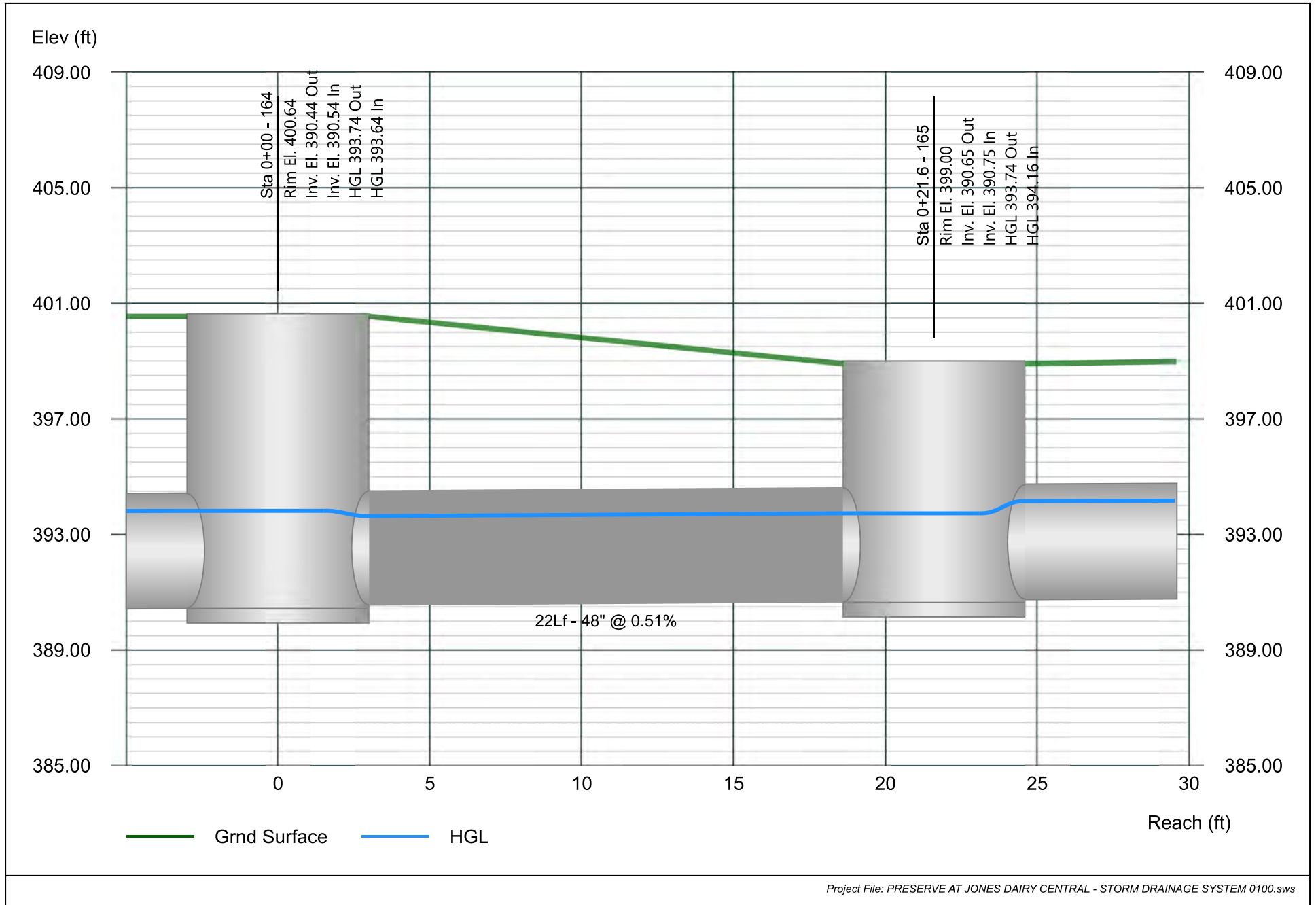


Line 65 - 165 TO 164

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

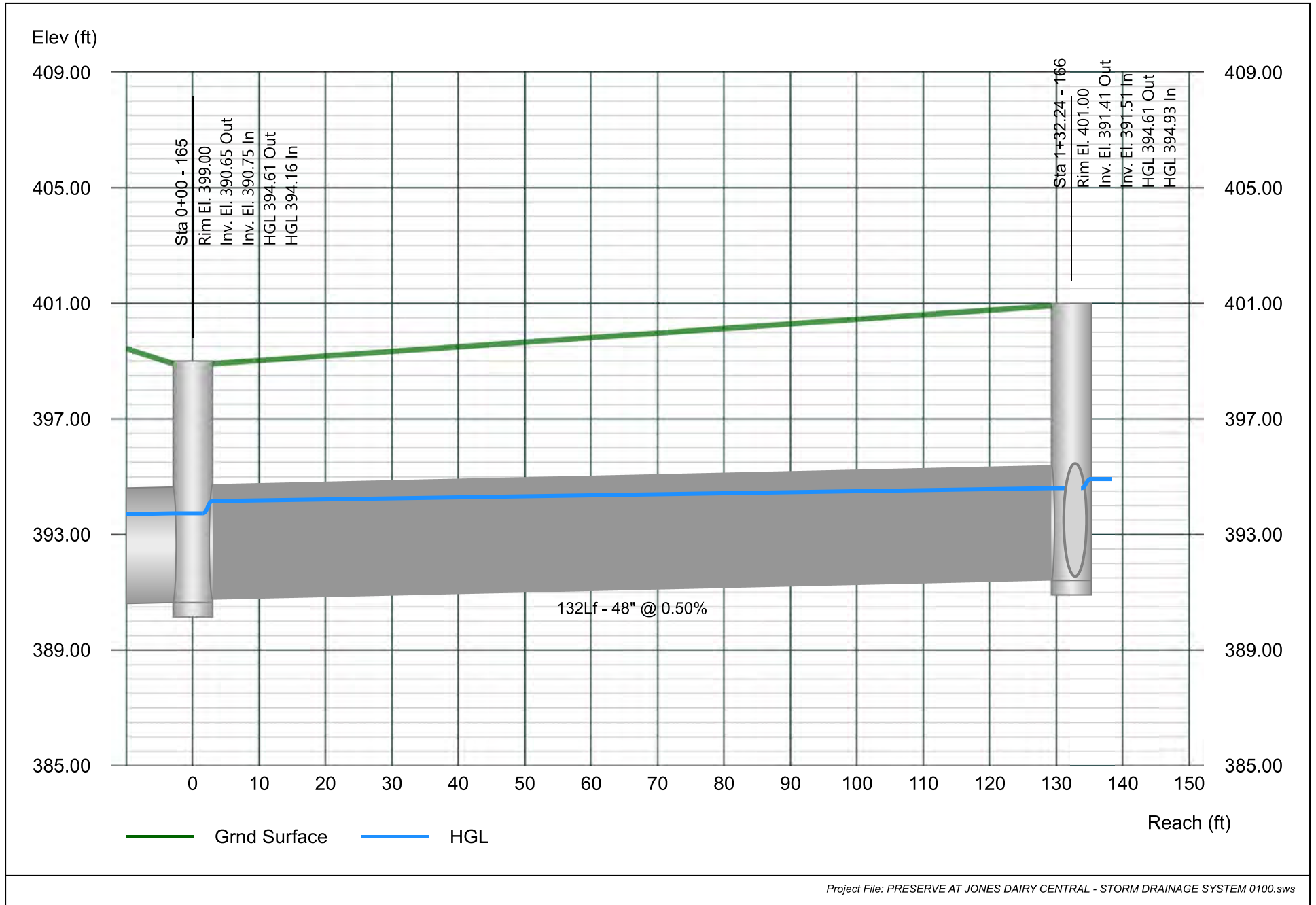


Line 66 - 166 TO 165

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

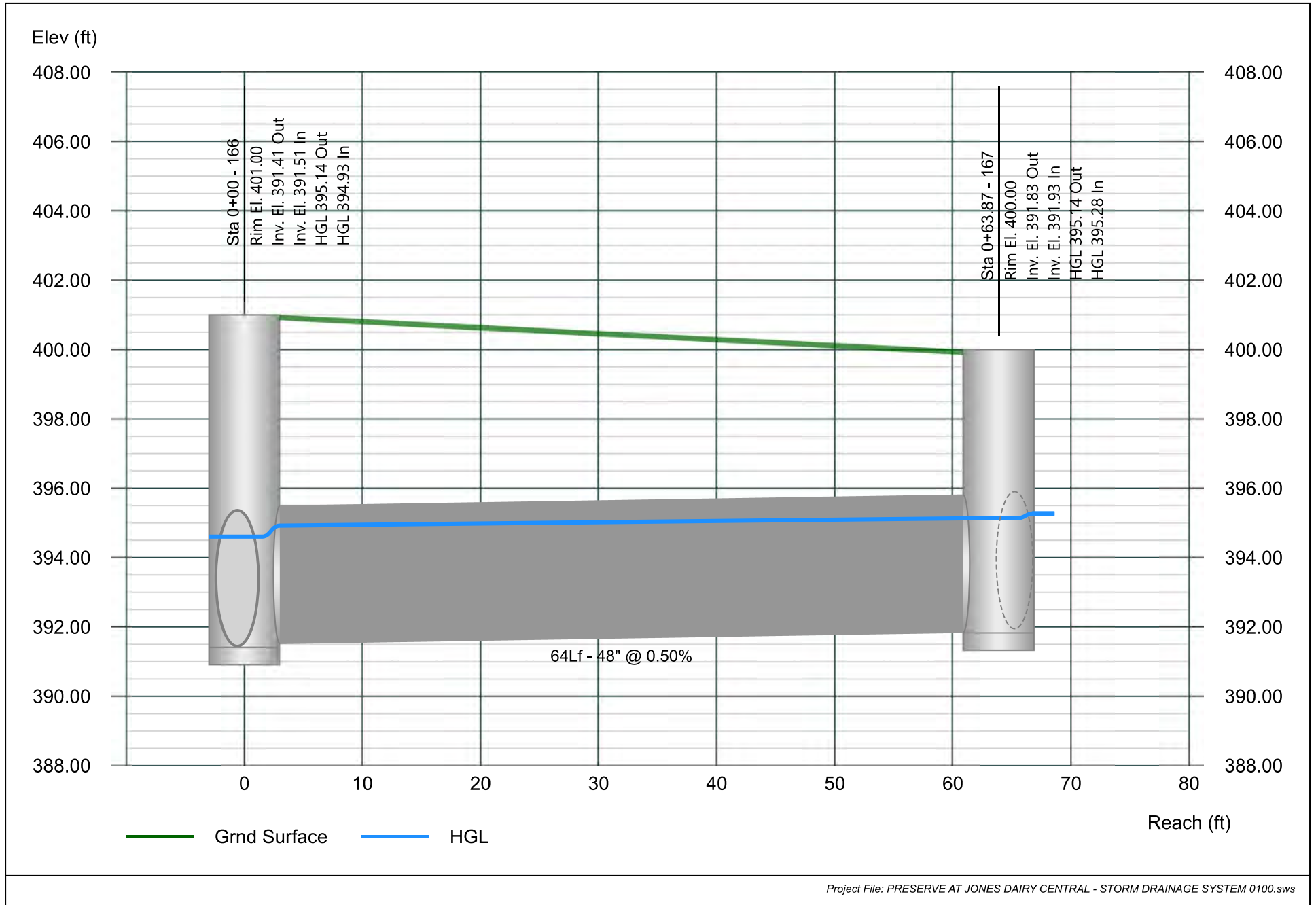


Line 67 - 167 TO 166

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

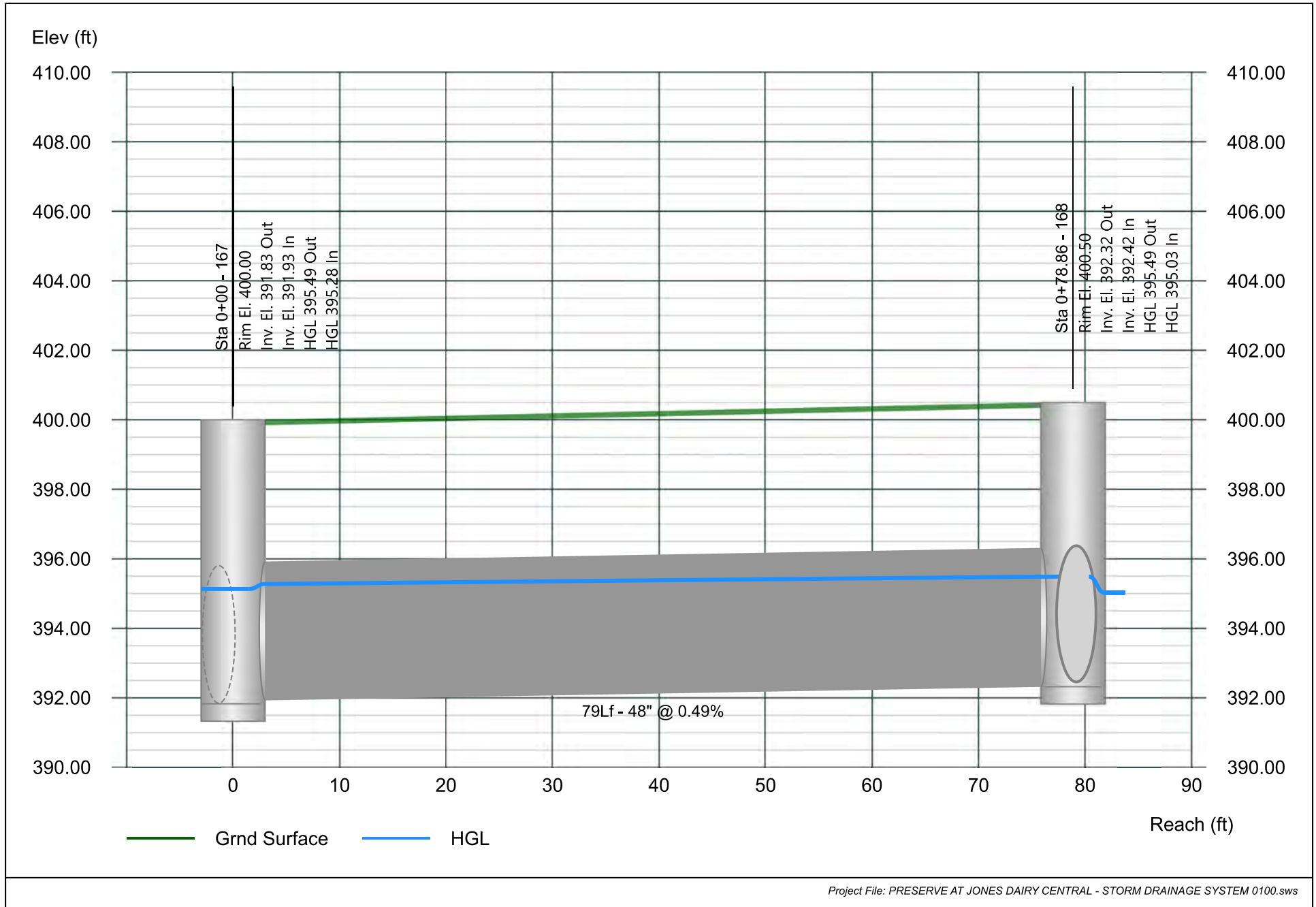


Line 68 - 168 TO 167

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

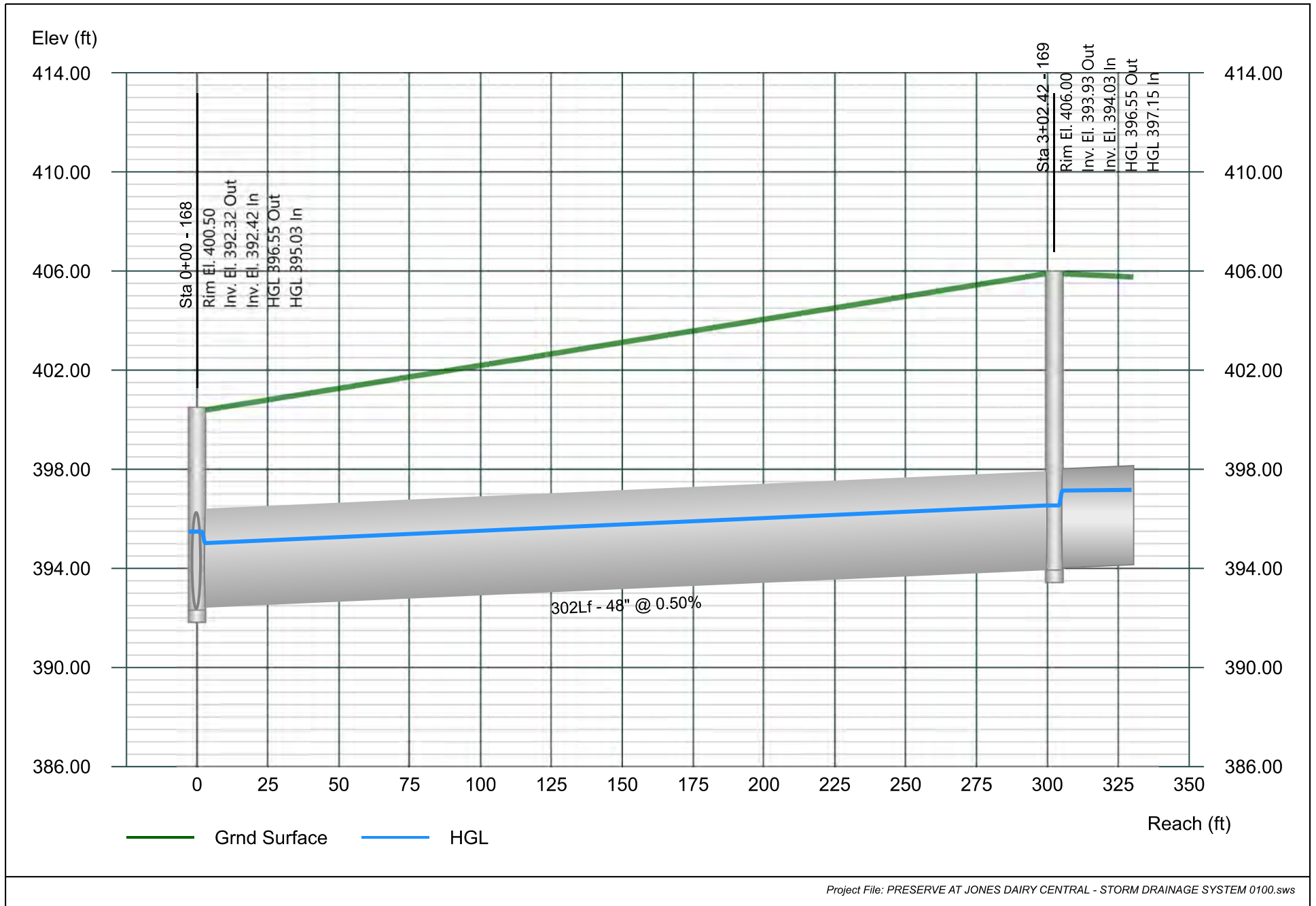


Line 69 - 169 TO 168

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

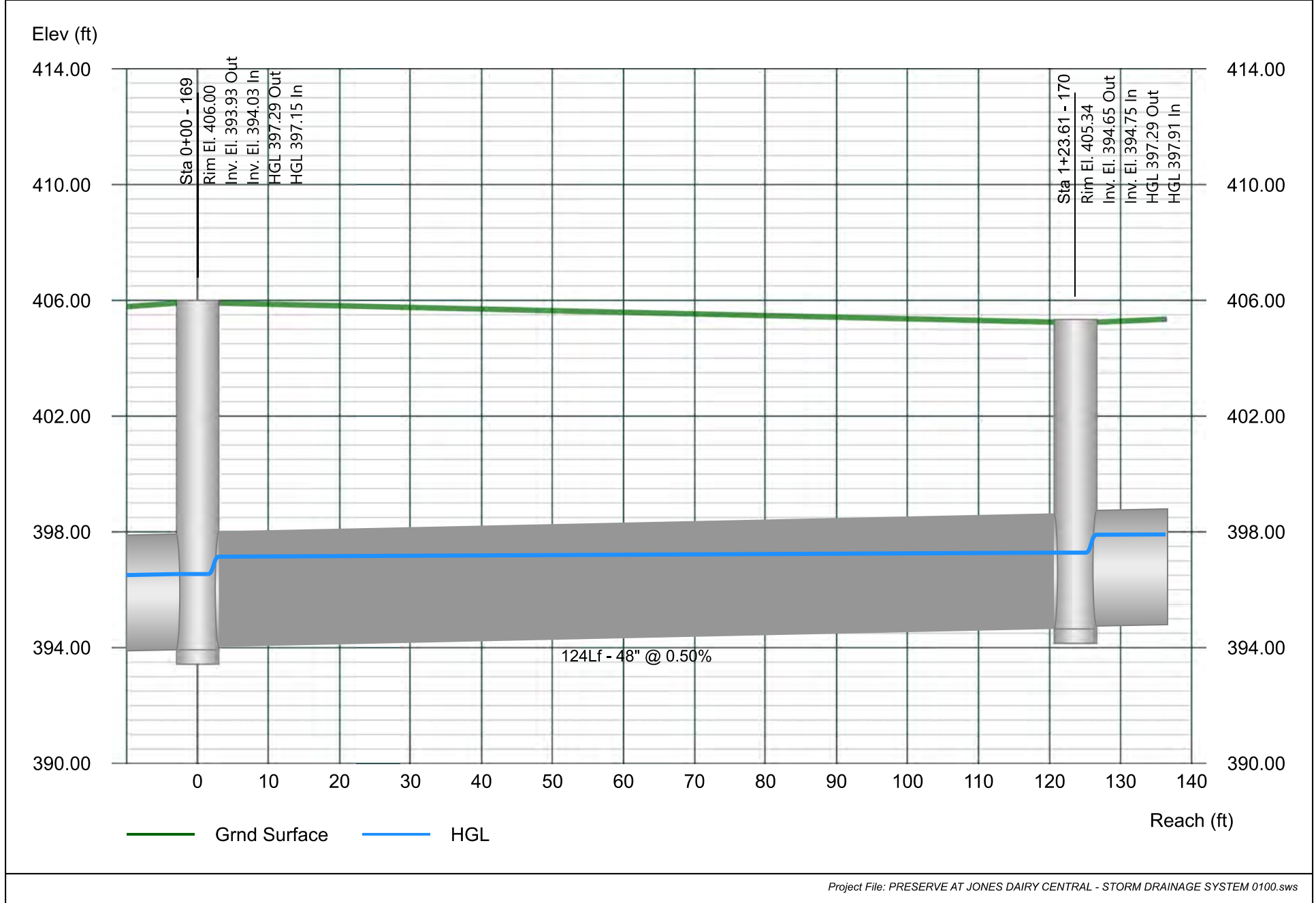


Line 70 - 170 TO 169

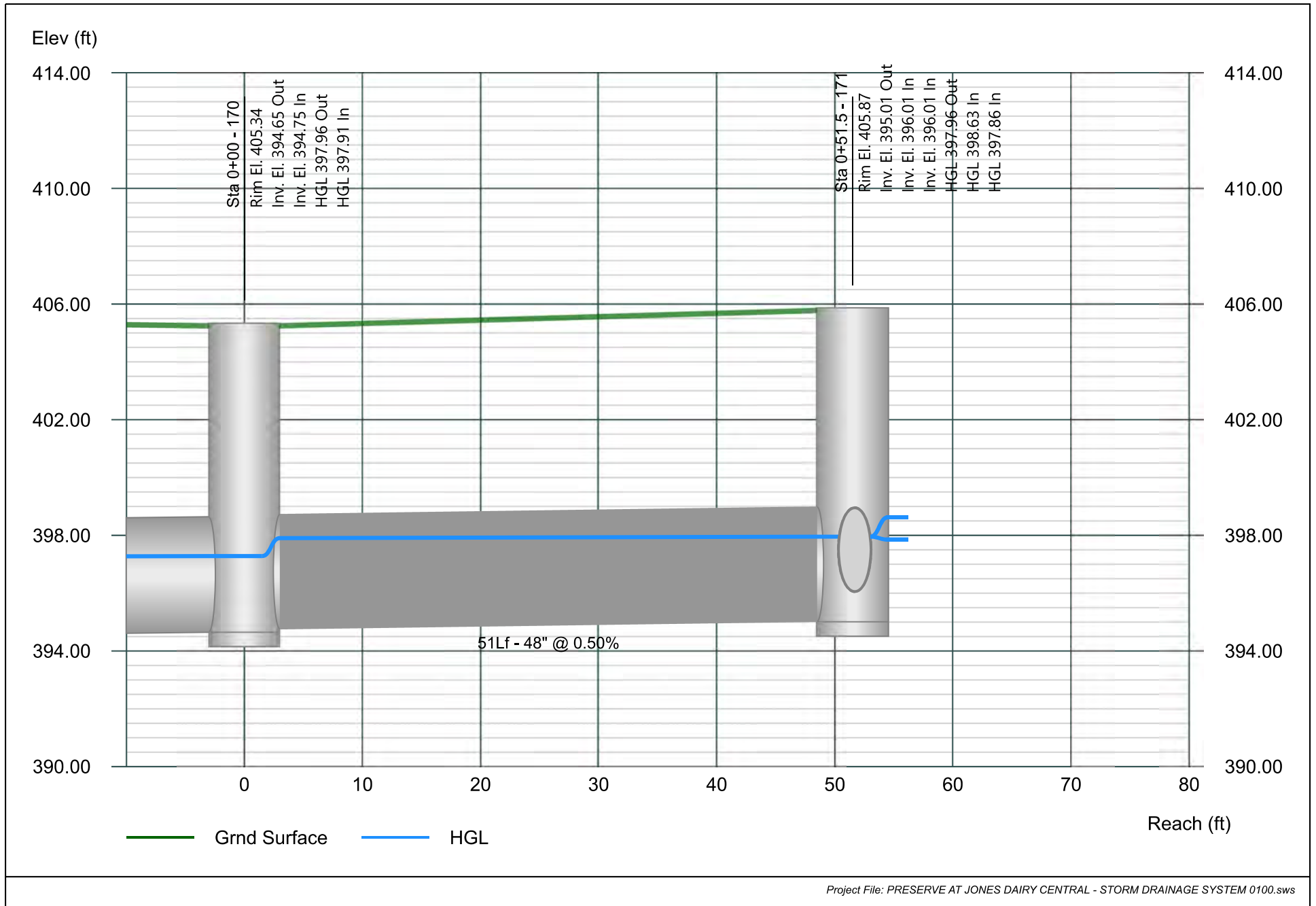
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

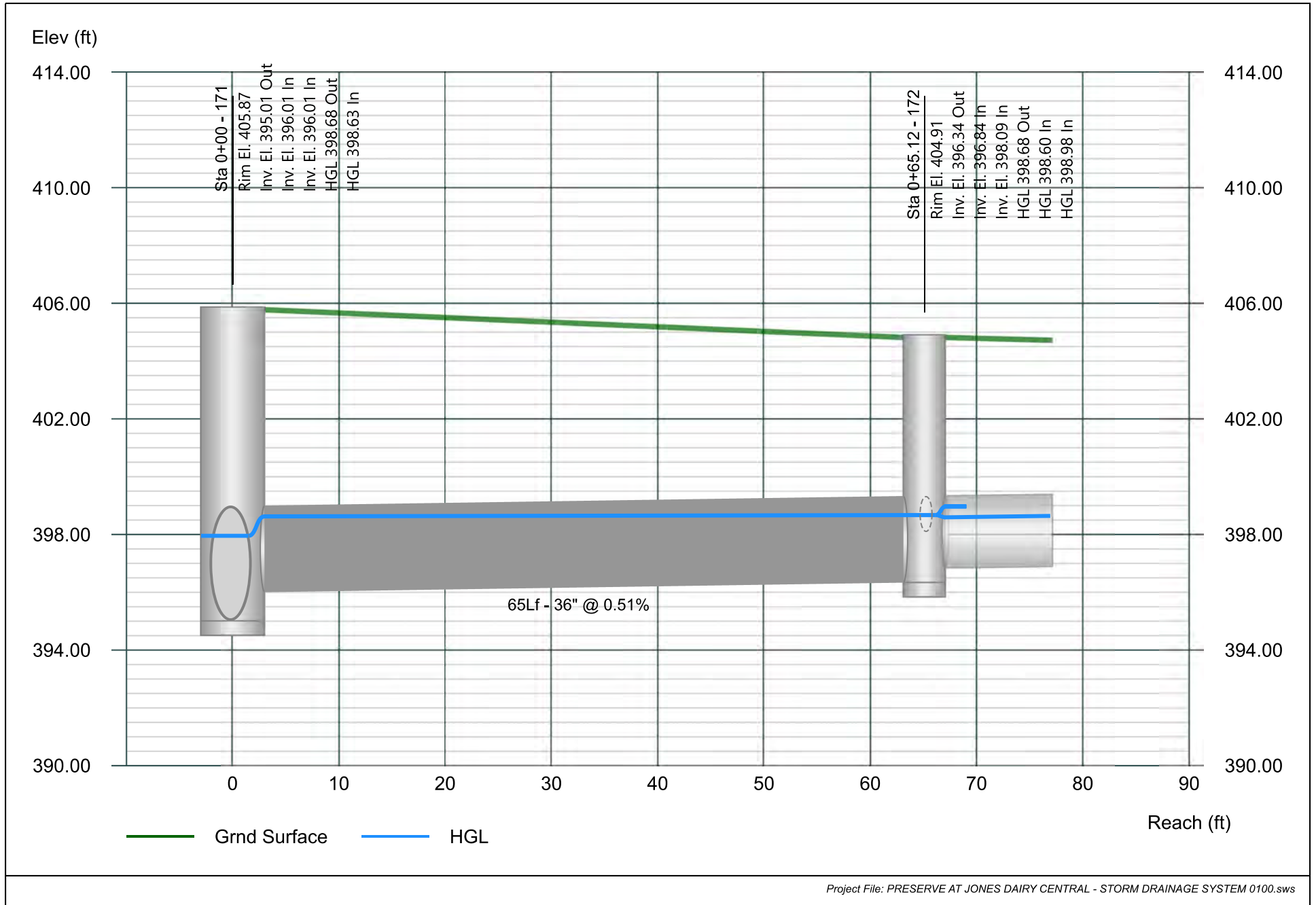
01-19-2024



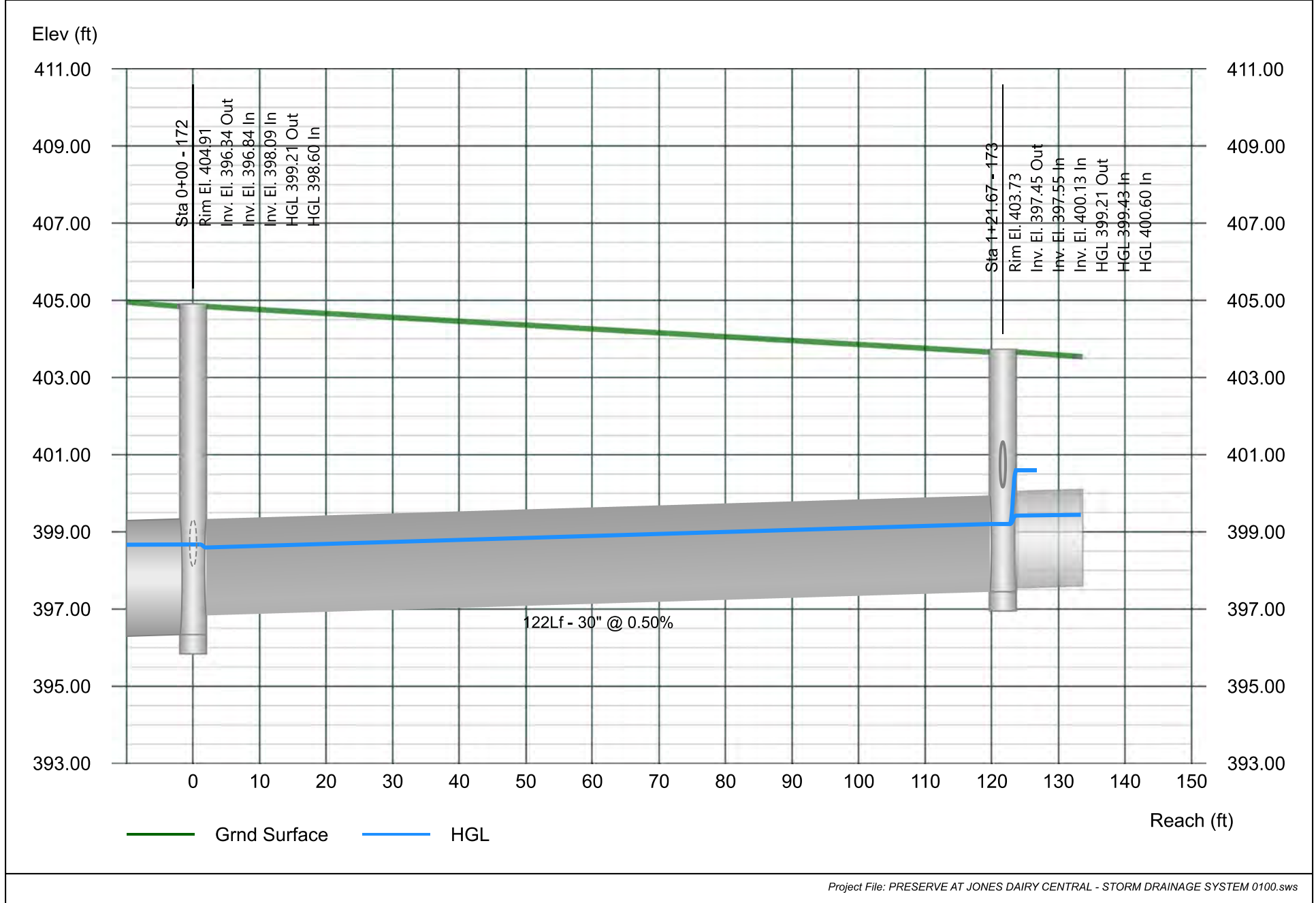
Line 71 - 171 TO 170



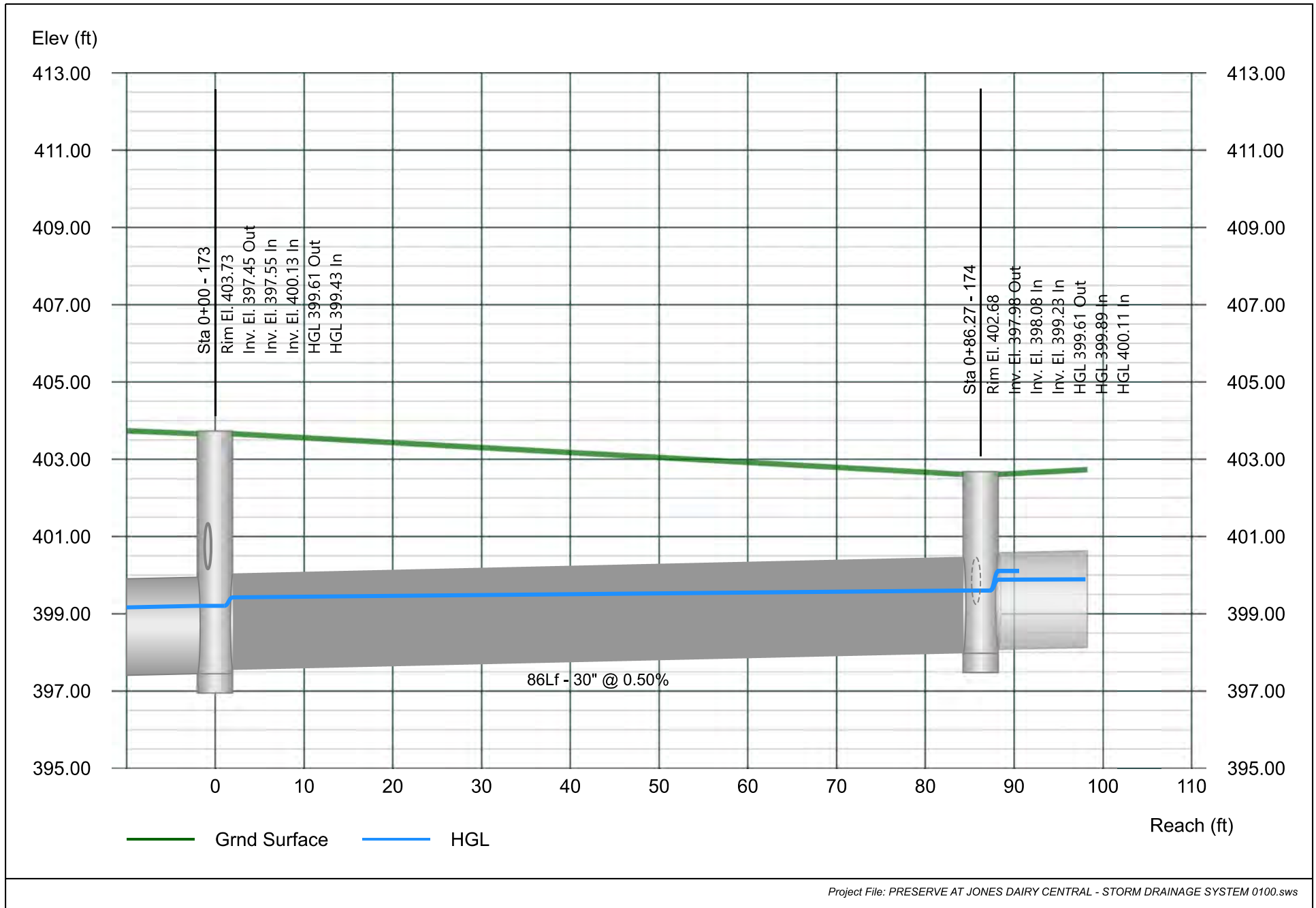
Line 72 - 172 TO 171



Line 73 - 173 TO 172



Line 74 - 174 TO 173

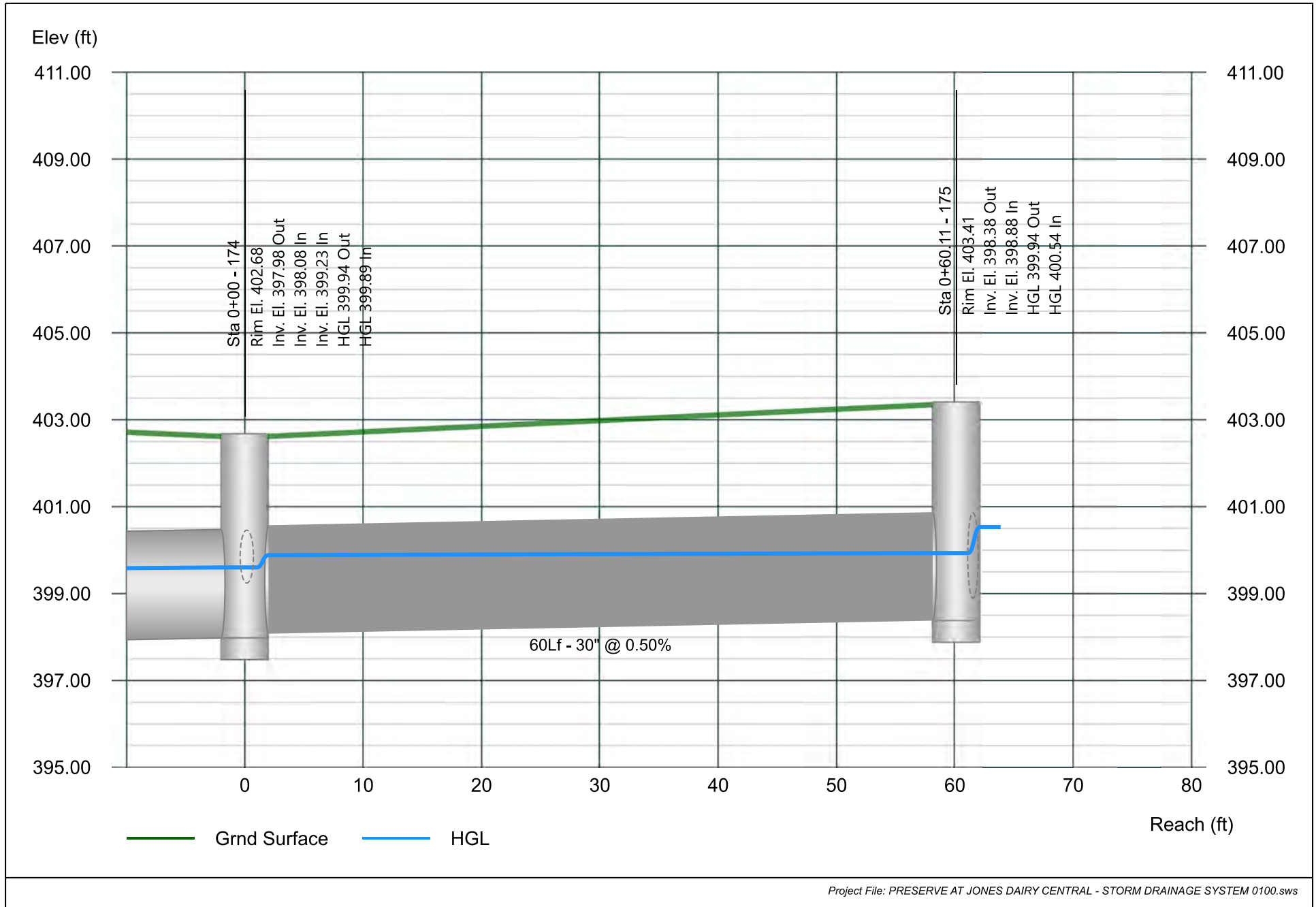


Line 75 - 175 TO 174

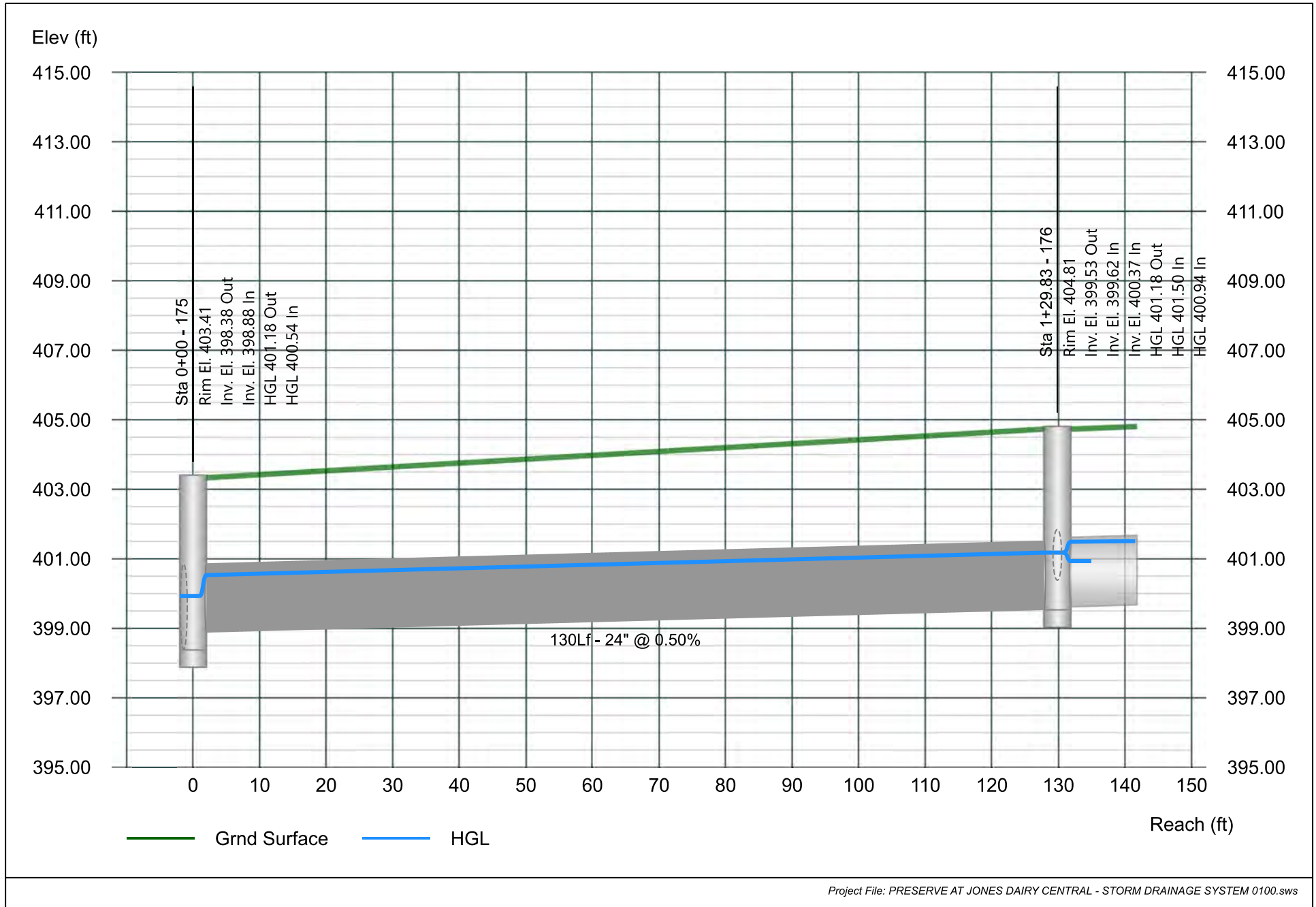
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

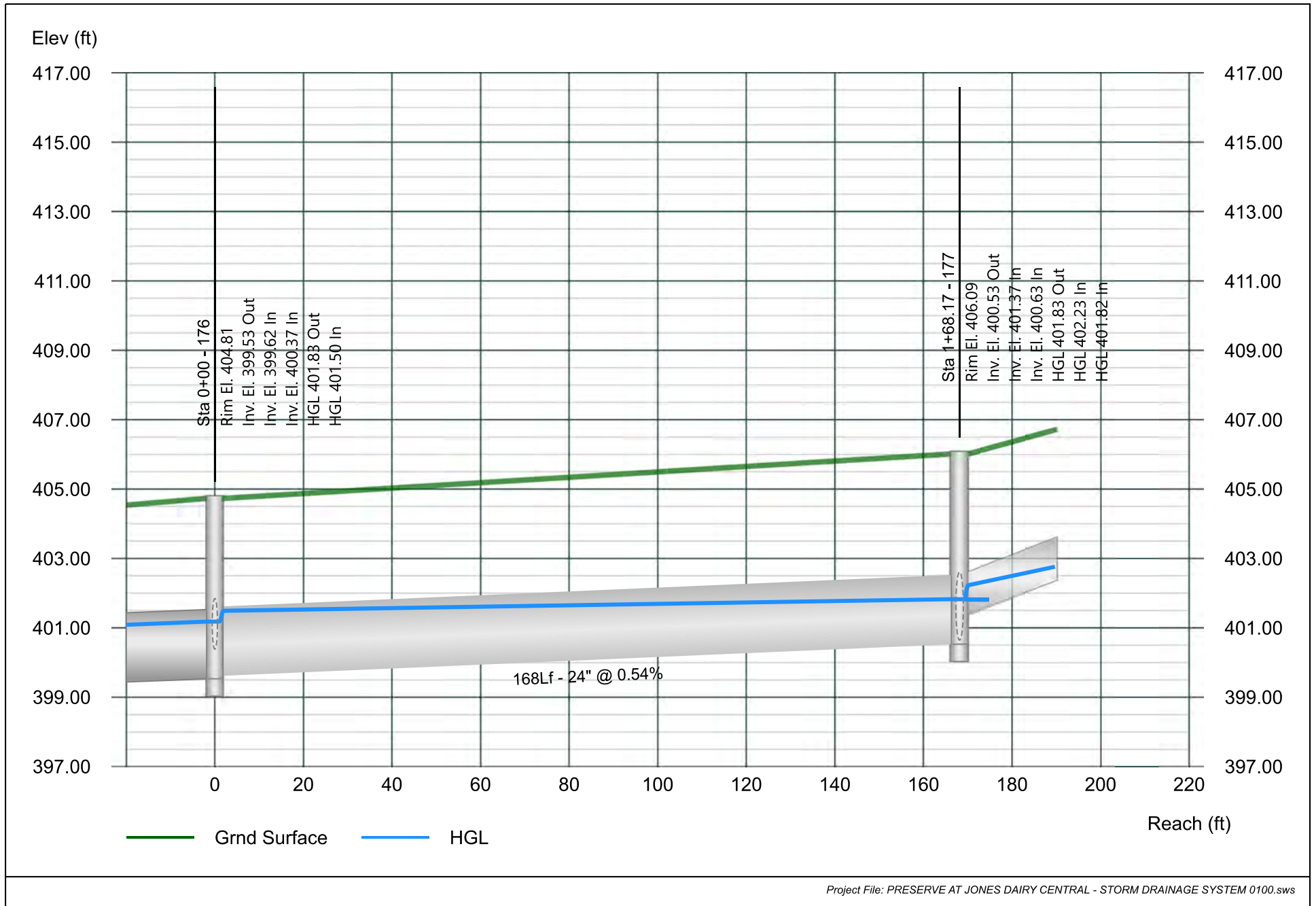
01-19-2024



Line 76 - 176 TO 175



Line 77 - 177 TO 176

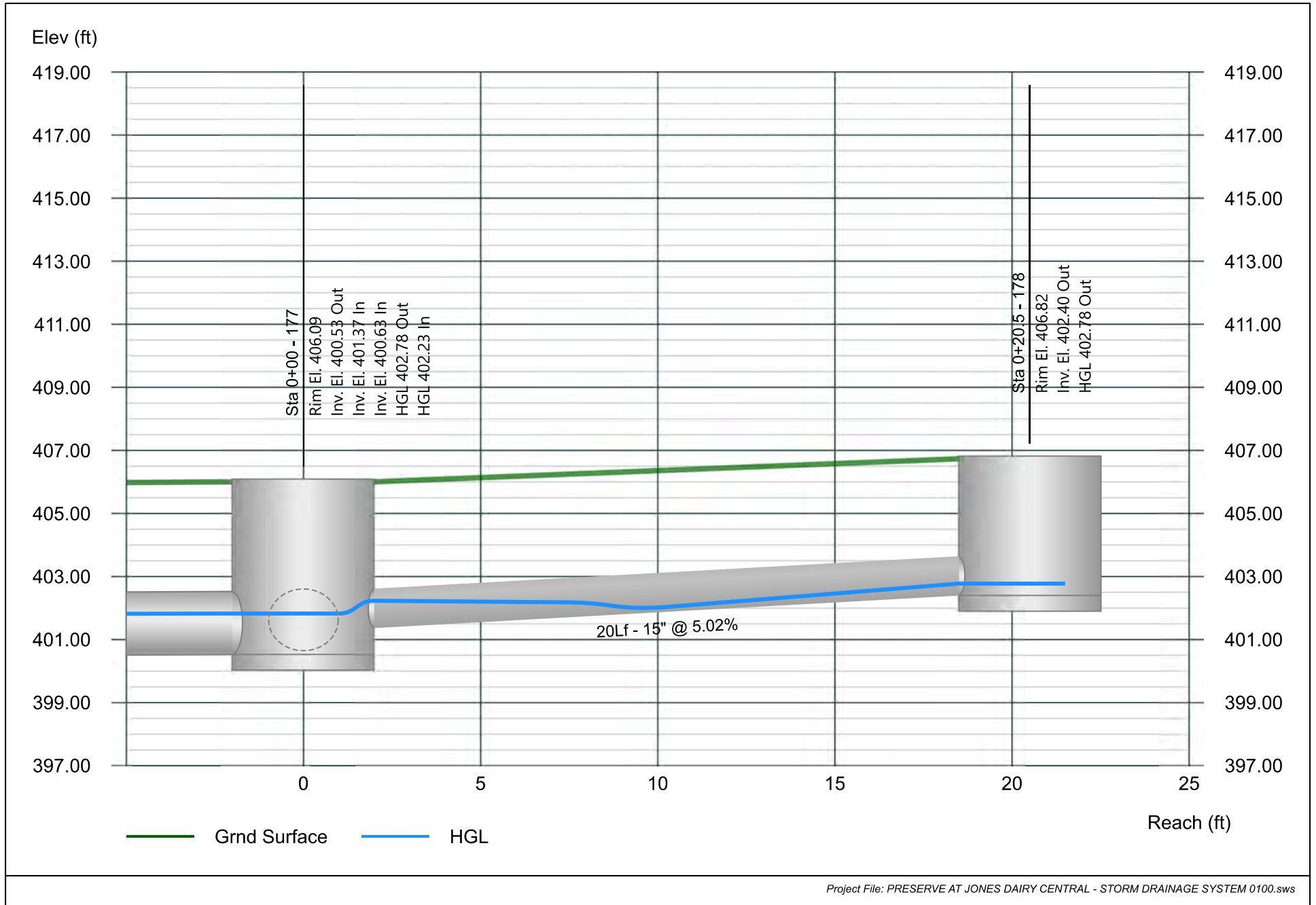


Line 78 - 178 TO 177

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

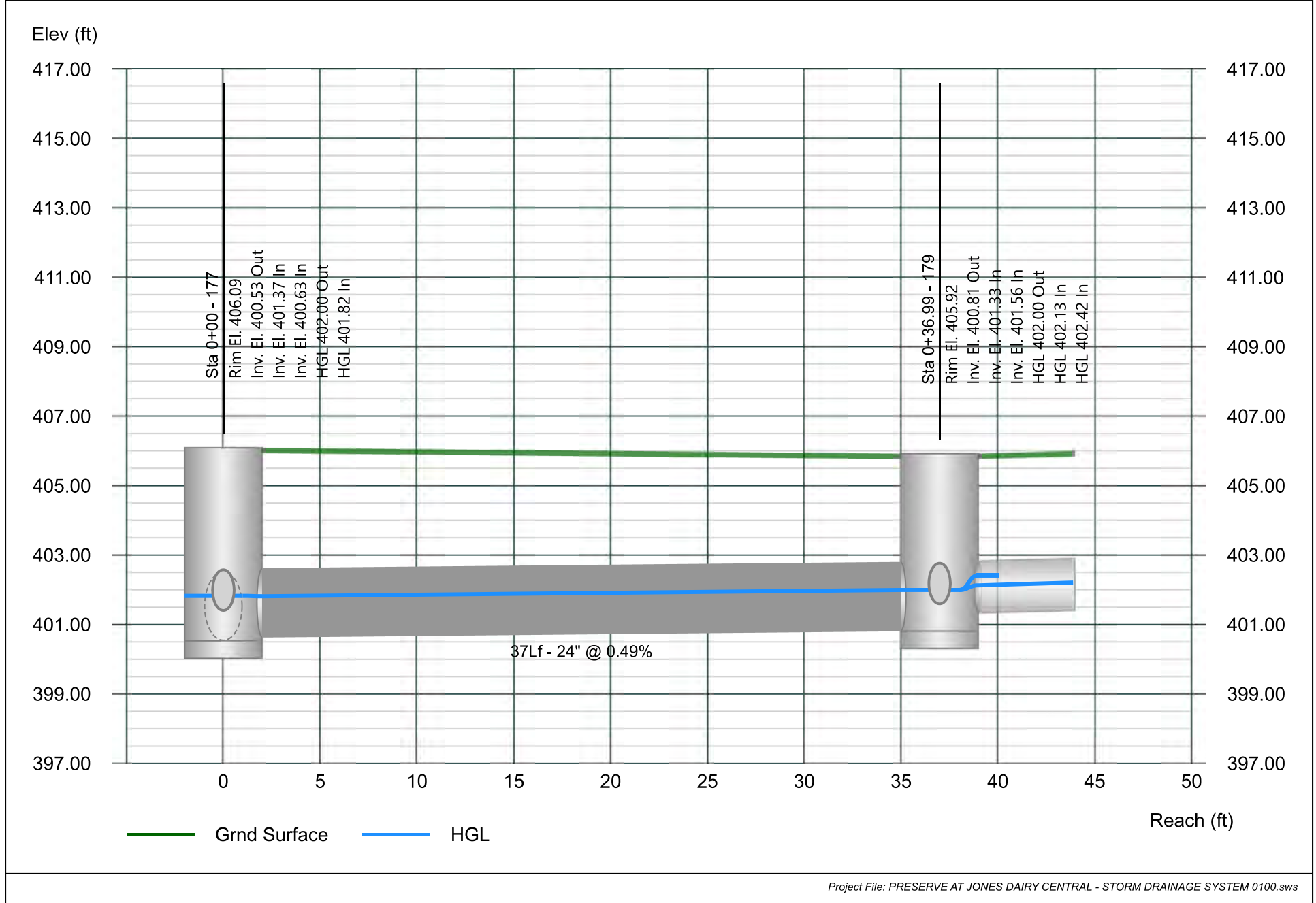


Line 79 - 179 TO 177

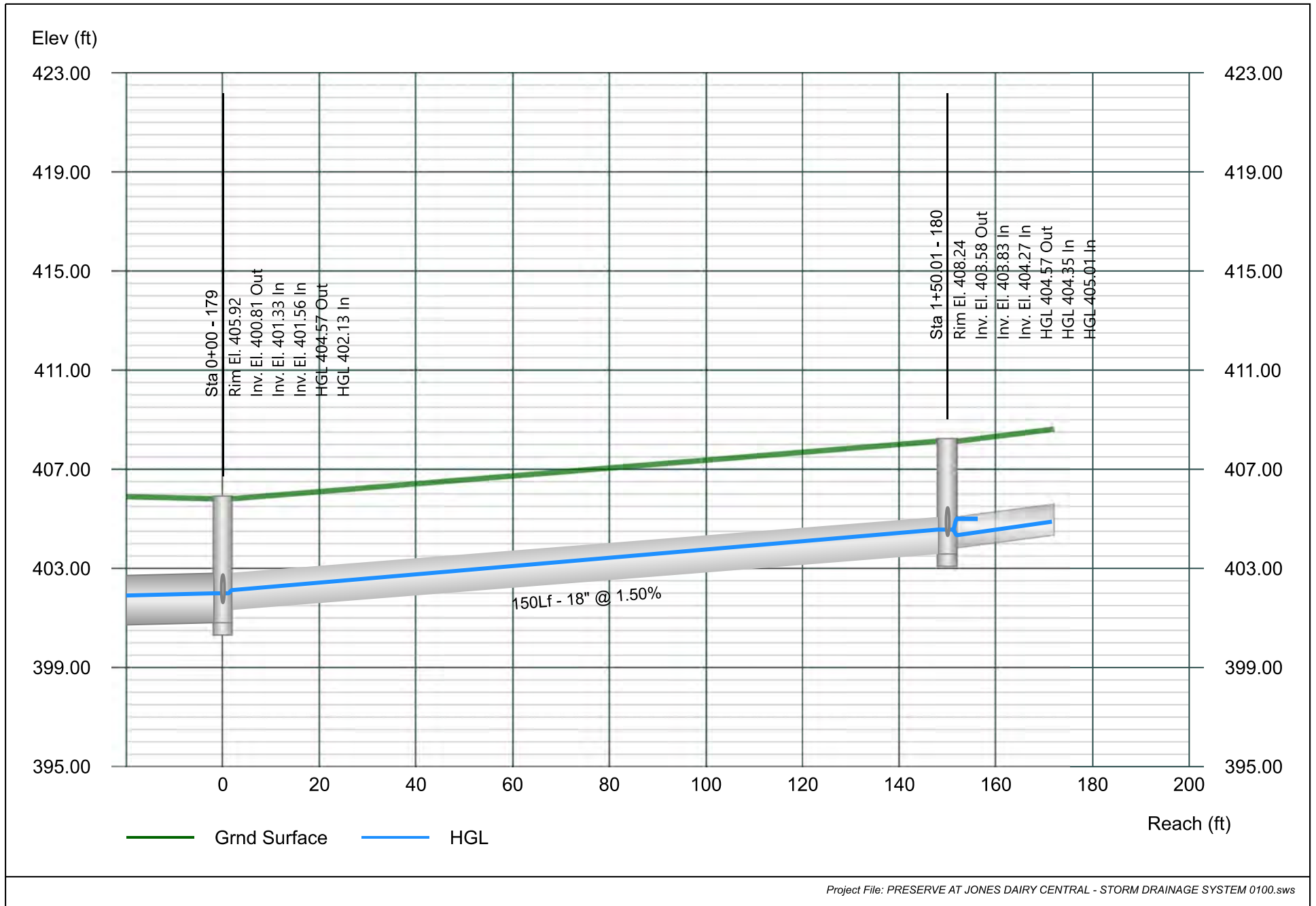
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

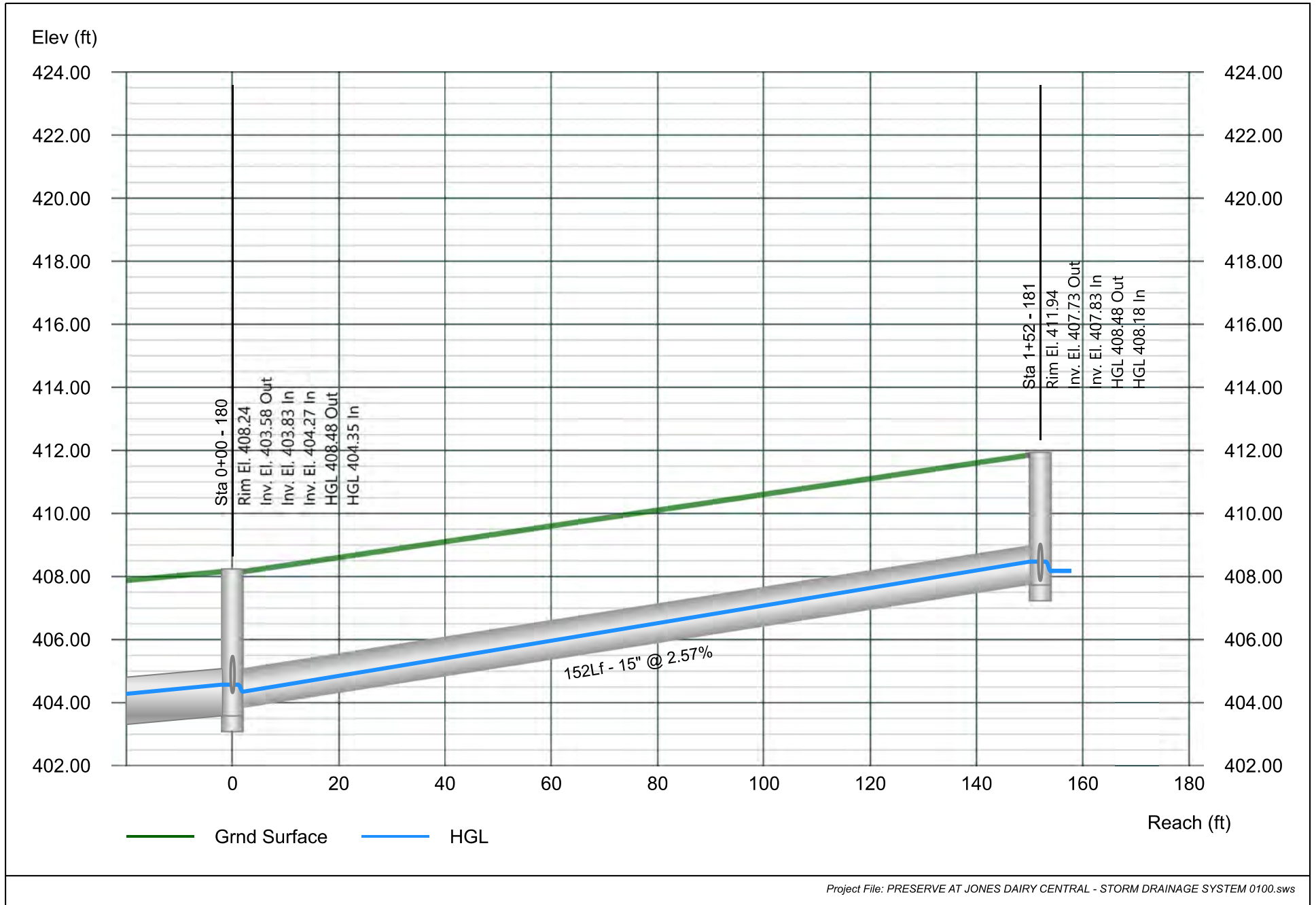
01-19-2024



Line 80 - 180 TO 179



Line 81 - 181 TO 180

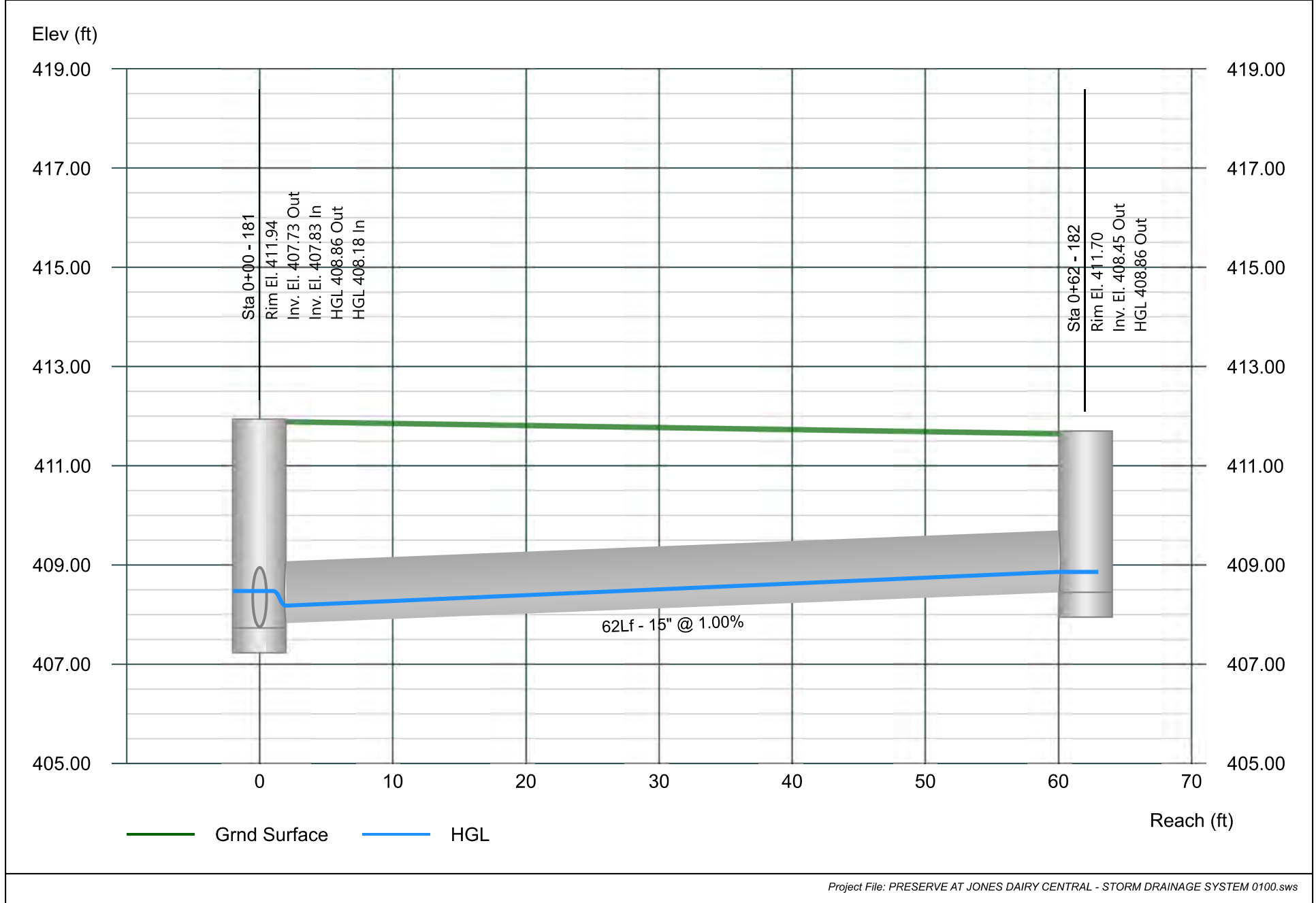


Line 82 - 182 TO 181

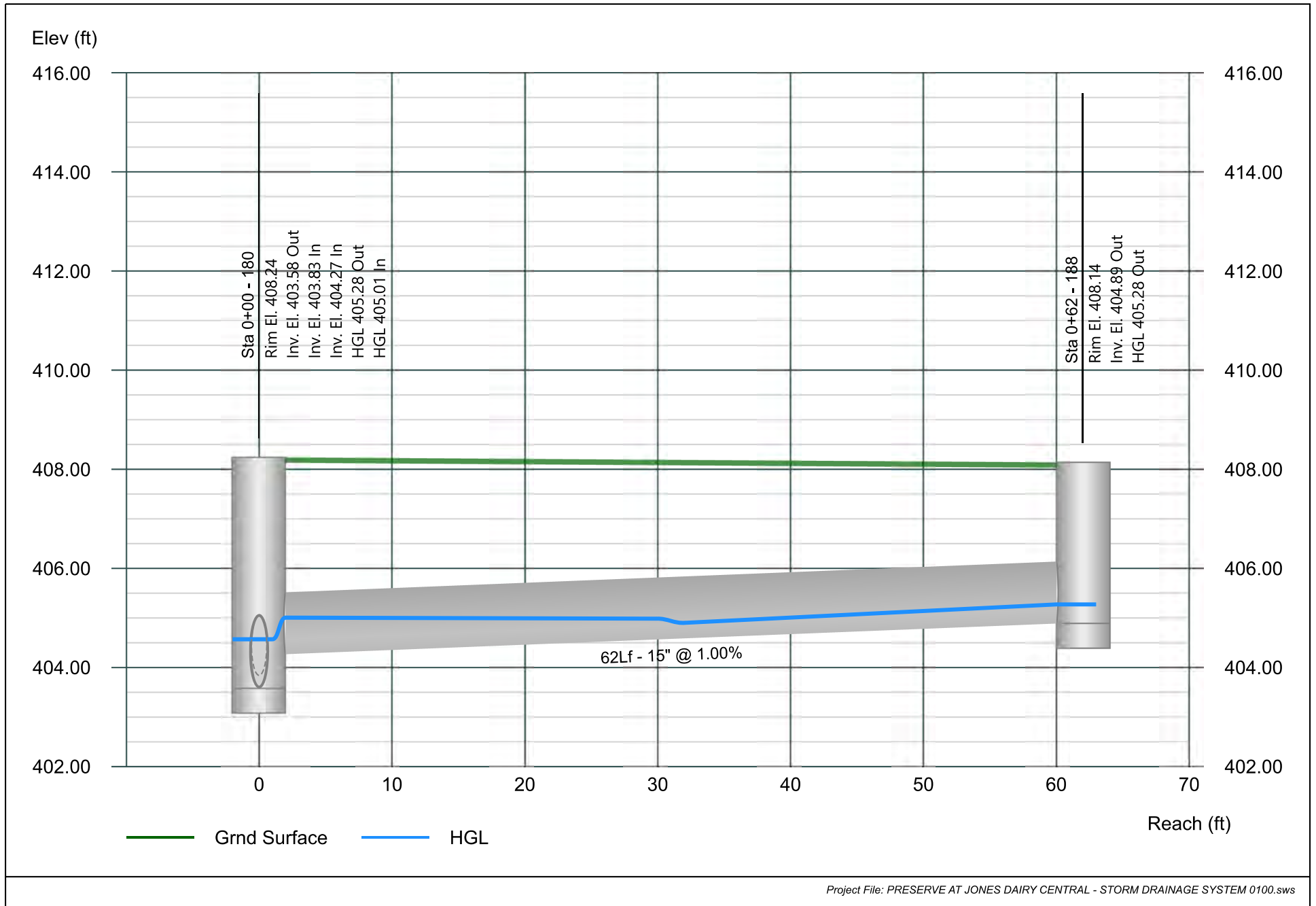
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

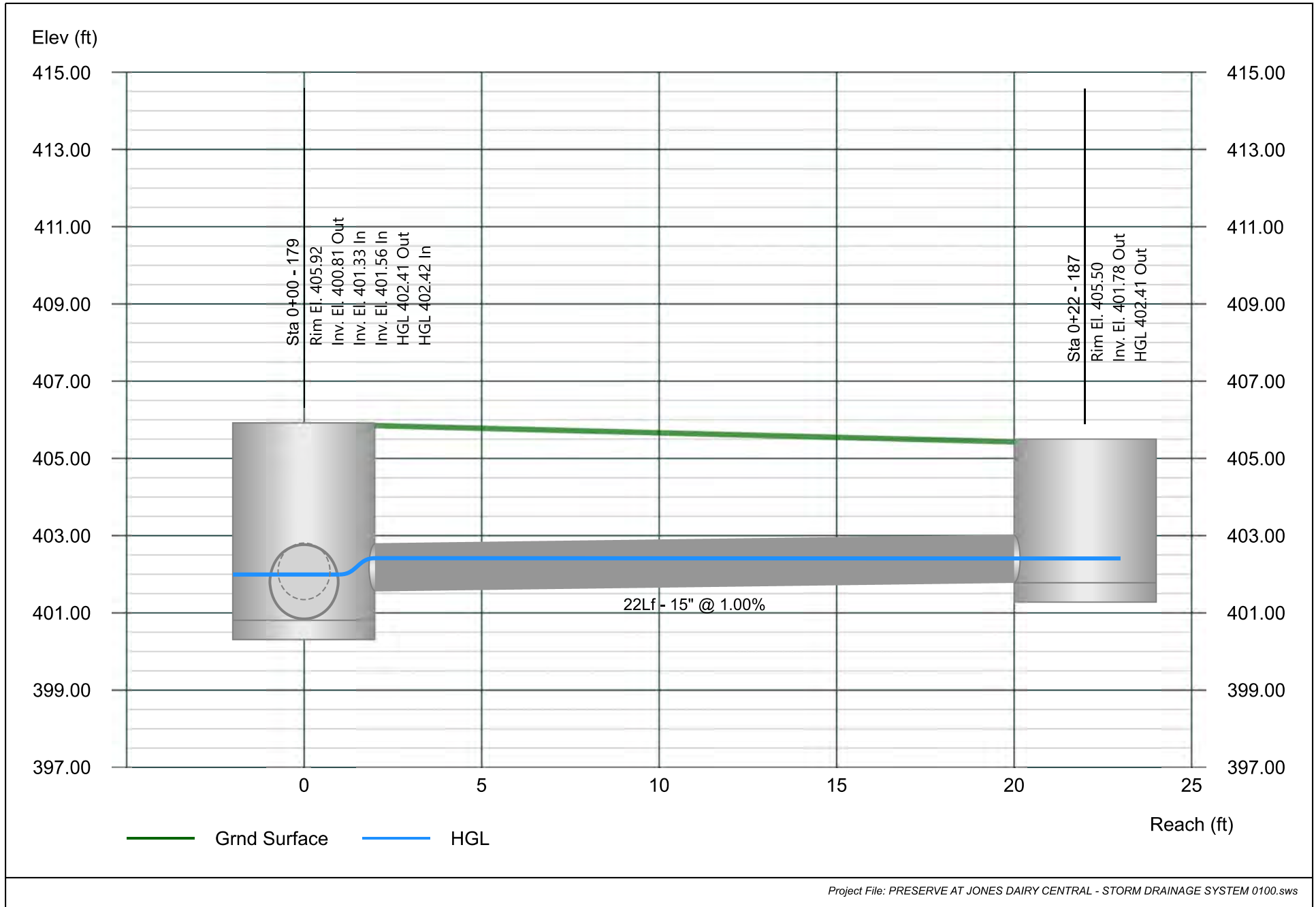
01-19-2024



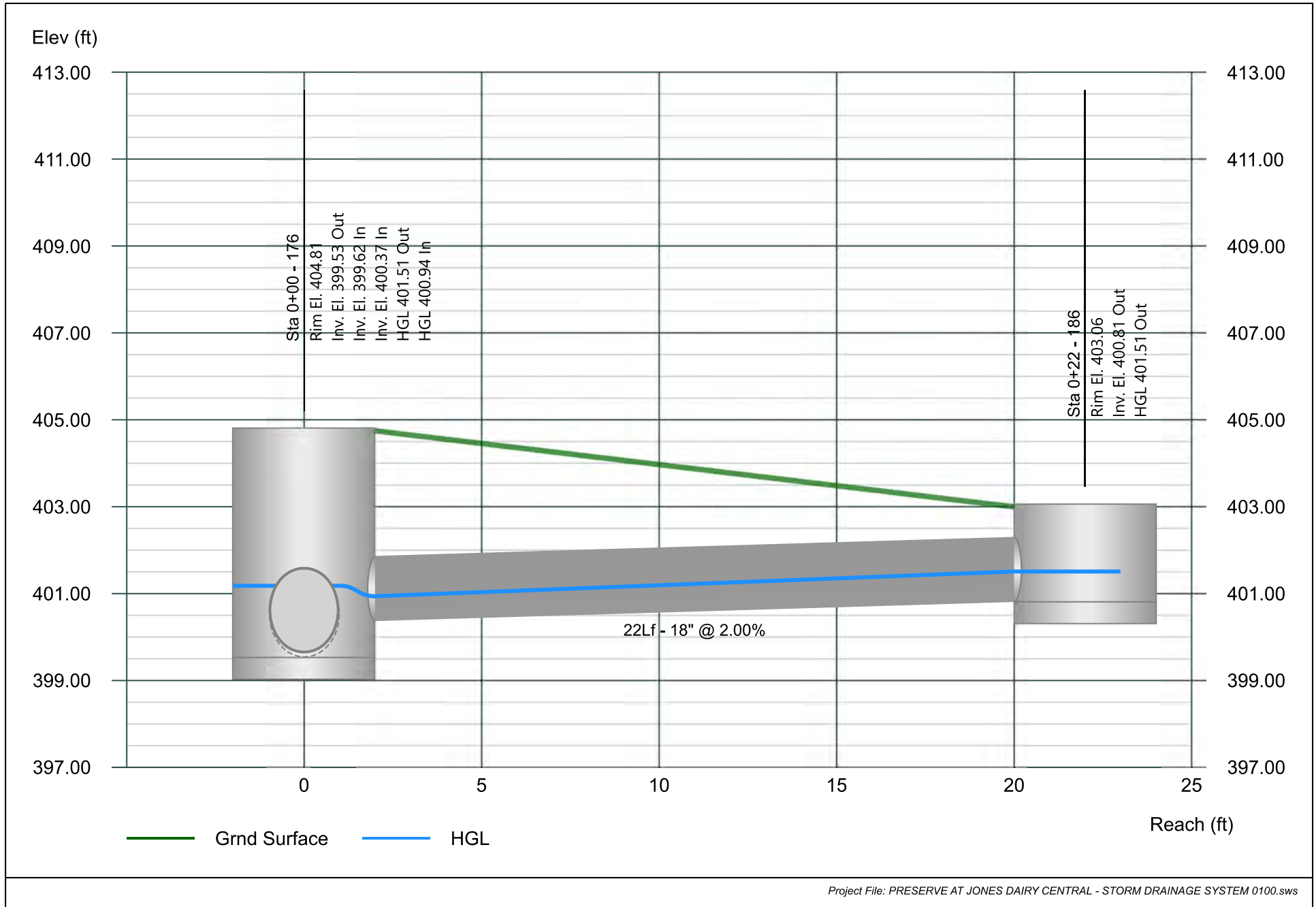
Line 83 - 188 TO 180



Line 84 - 187 TO 179



Line 85 - 186 TO 176

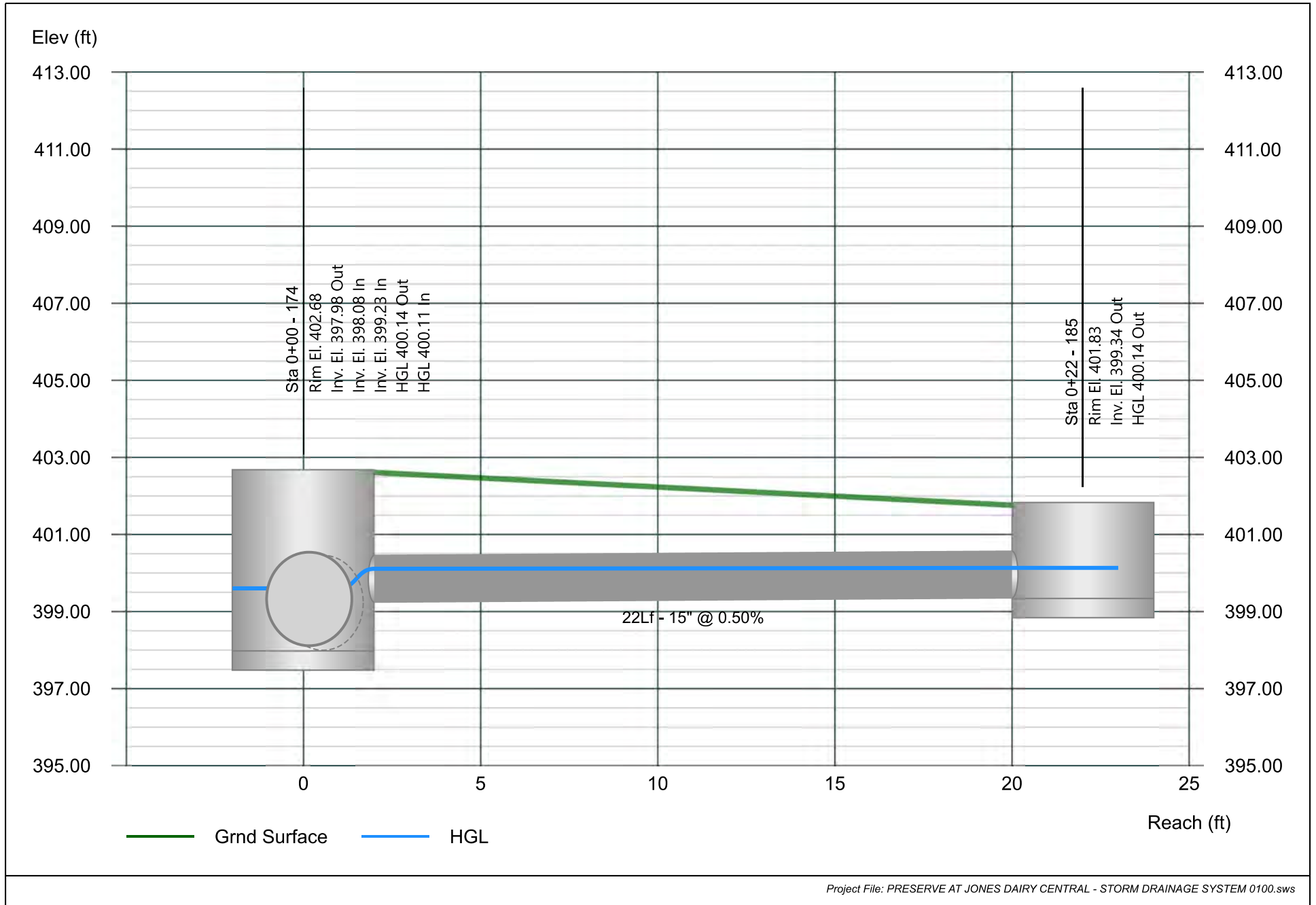


Line 86 - 185 TO 174

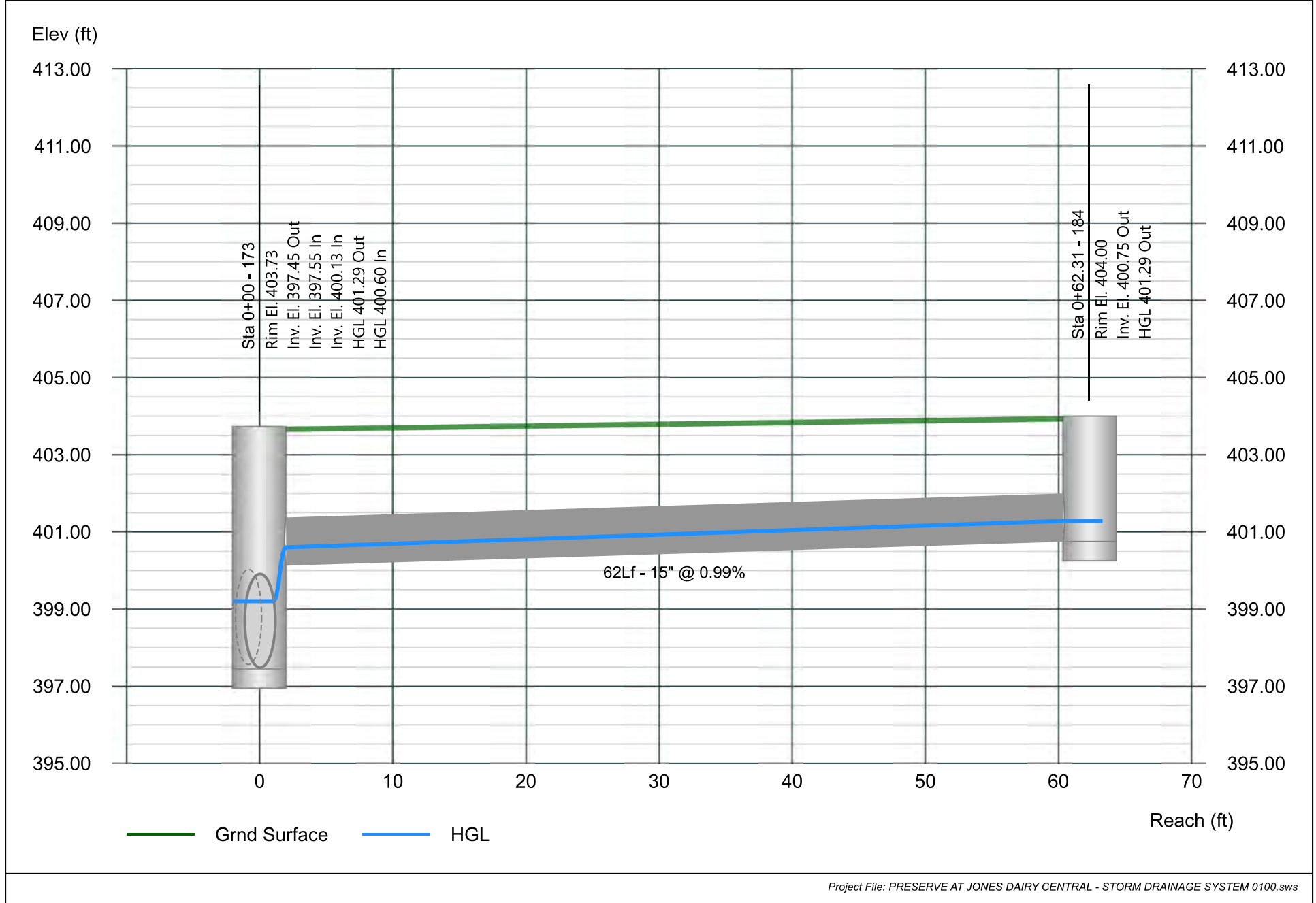
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

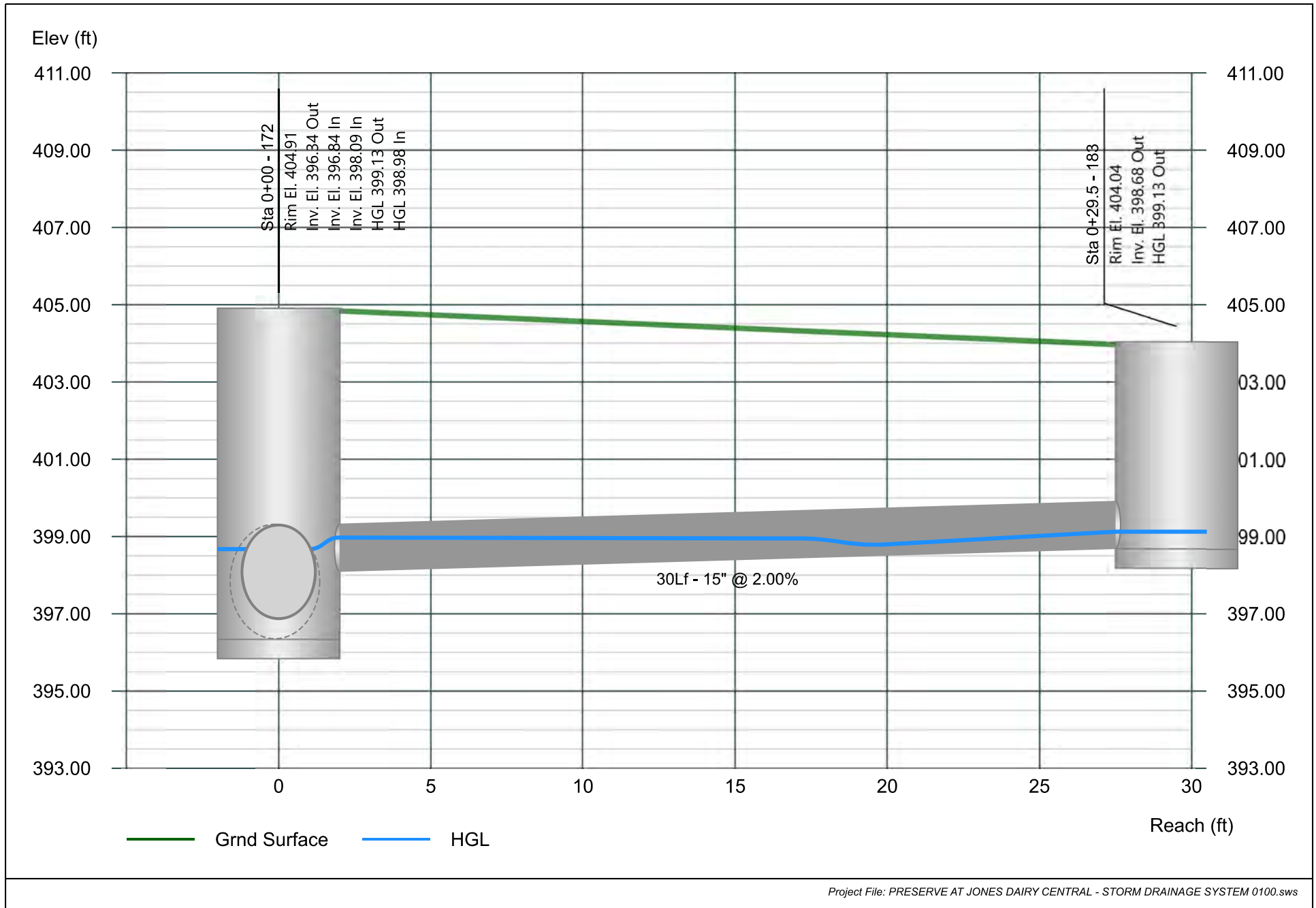
01-19-2024



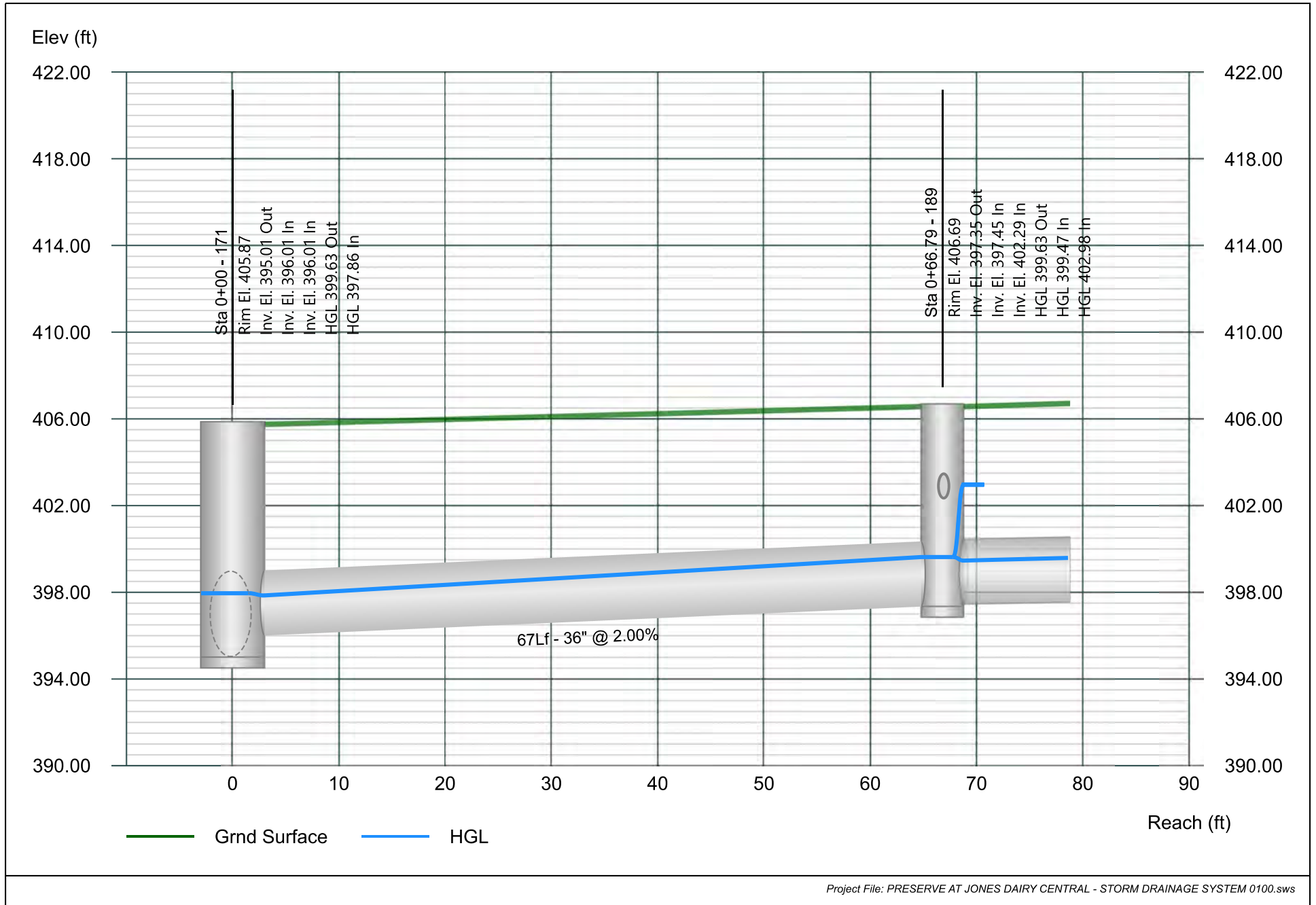
Line 87 - 184 TO 173



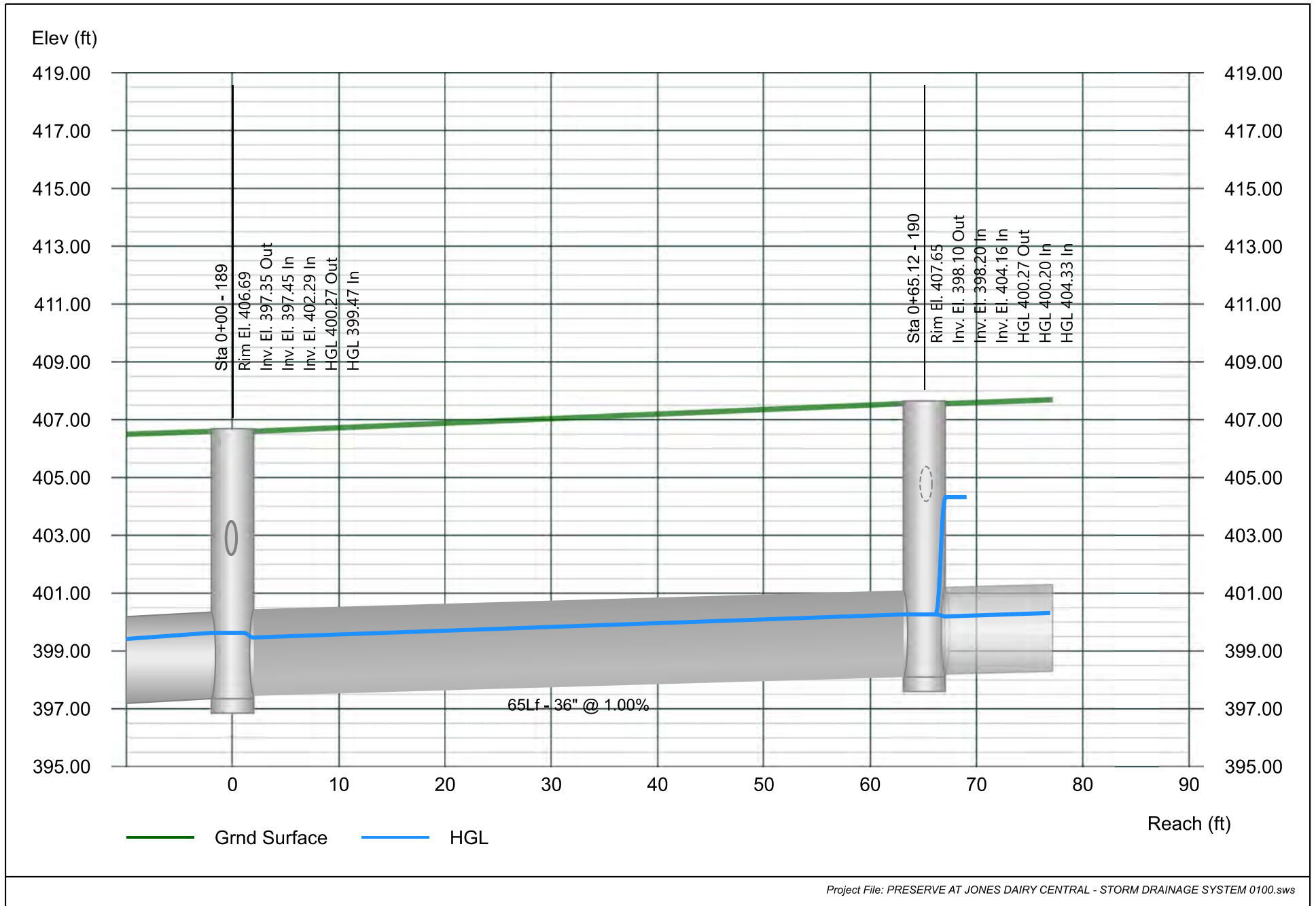
Line 88 - 183 TO 172



Line 89 - 189 TO 171



Line 90 - 190 TO 189

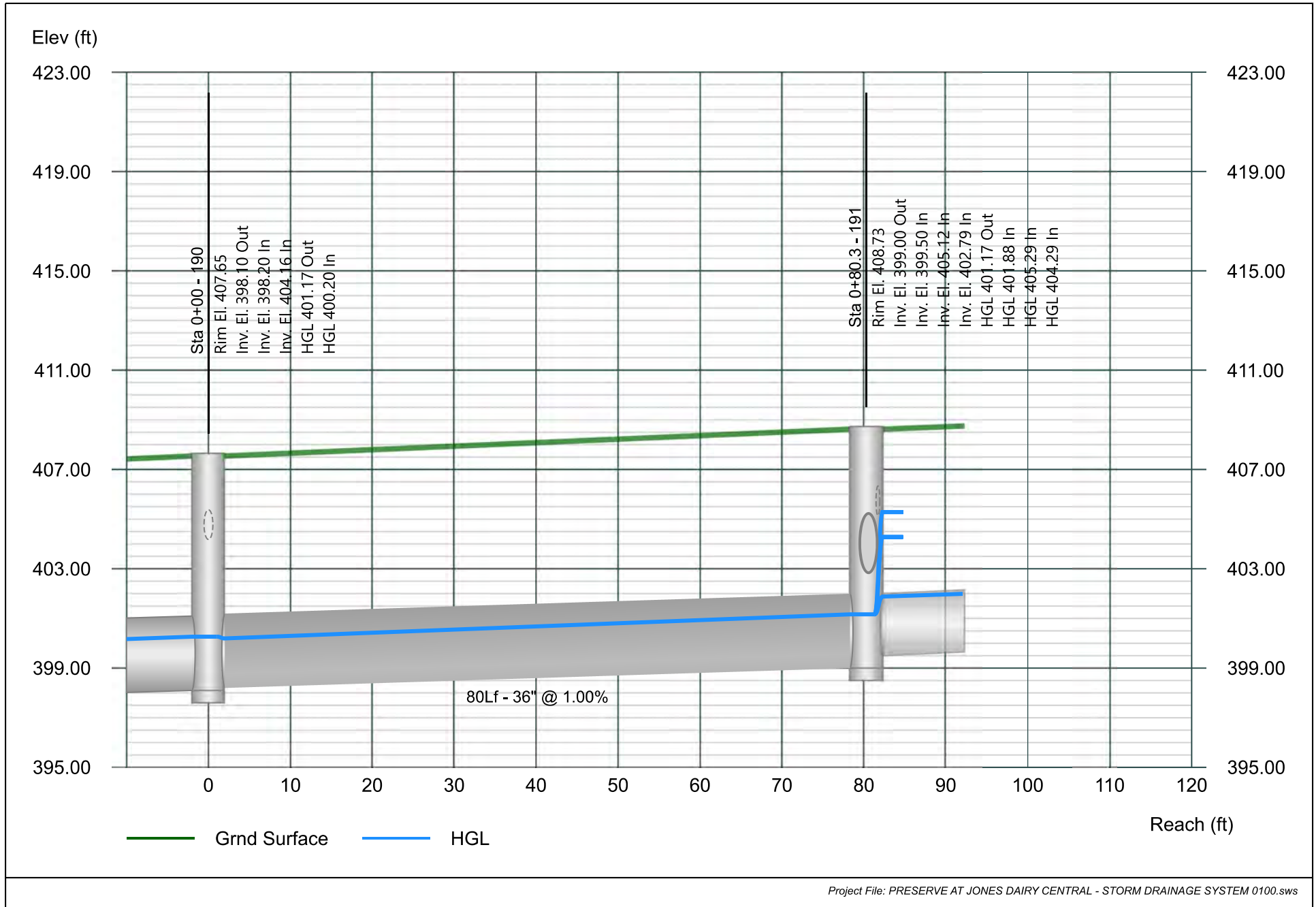


Line 91 - 191 TO 190

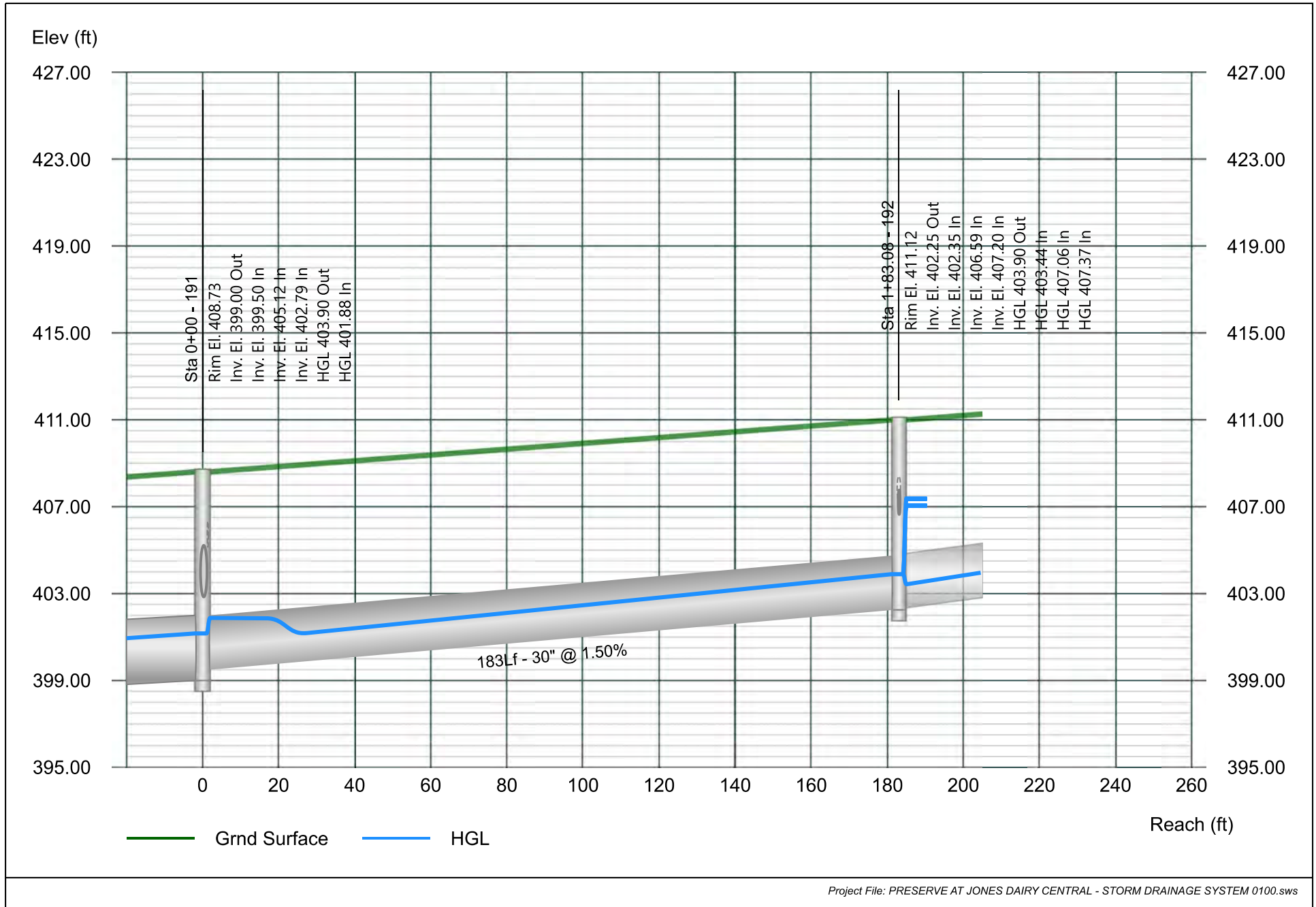
Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

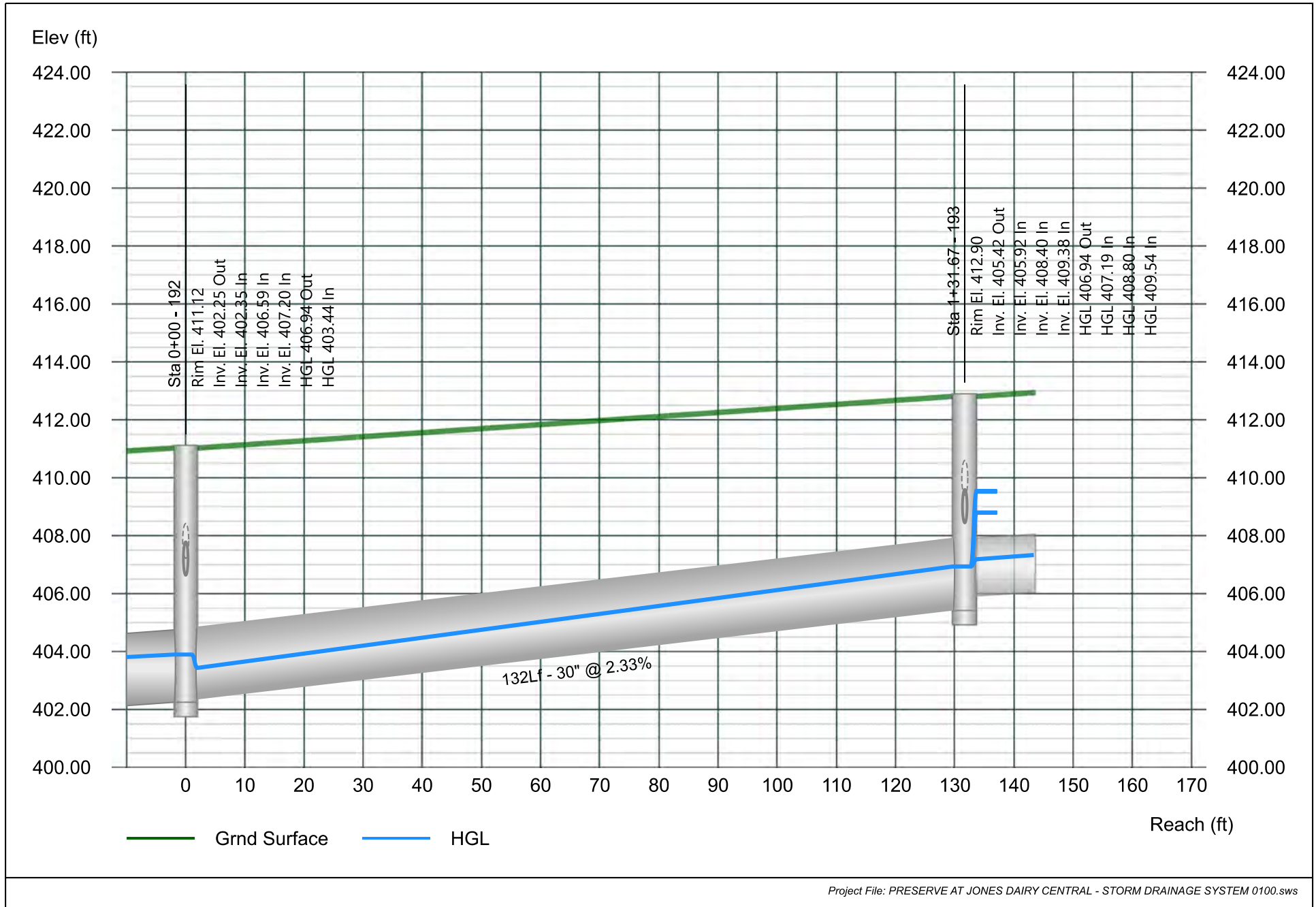
01-19-2024



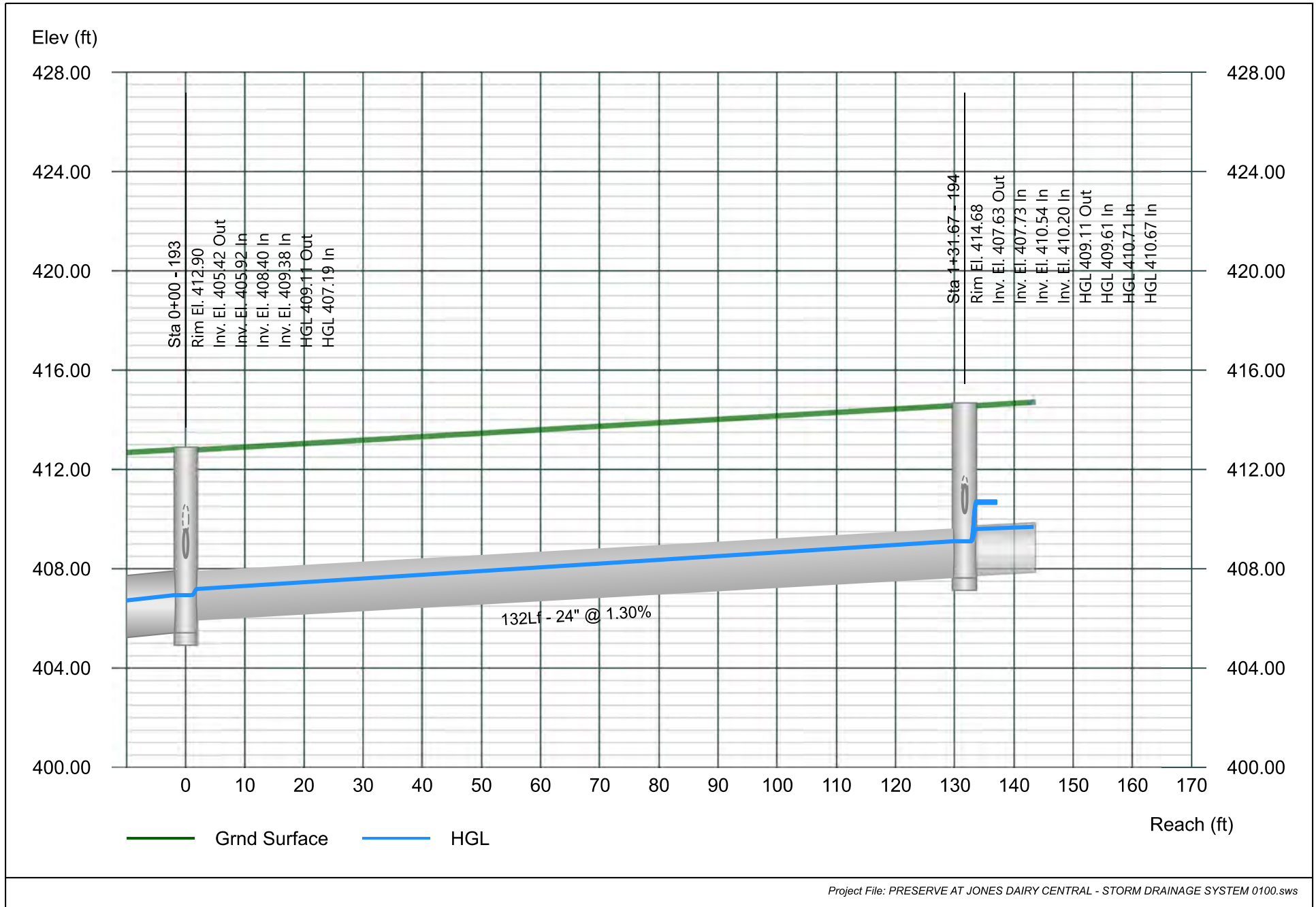
Line 92 - 192 TO 191



Line 93 - 193 TO 192



Line 94 - 194 TO 193

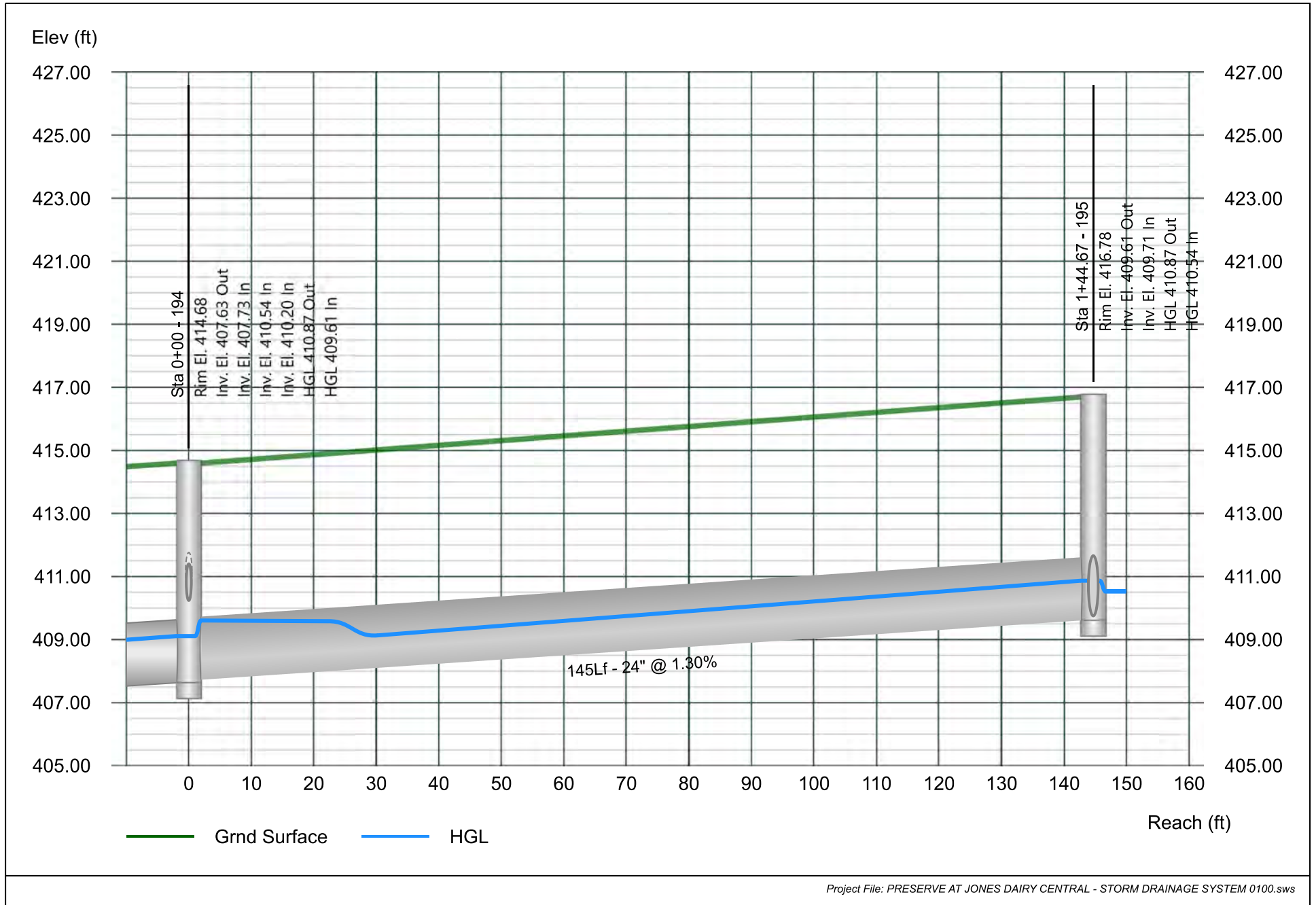


Line 95 - 195 TO 194

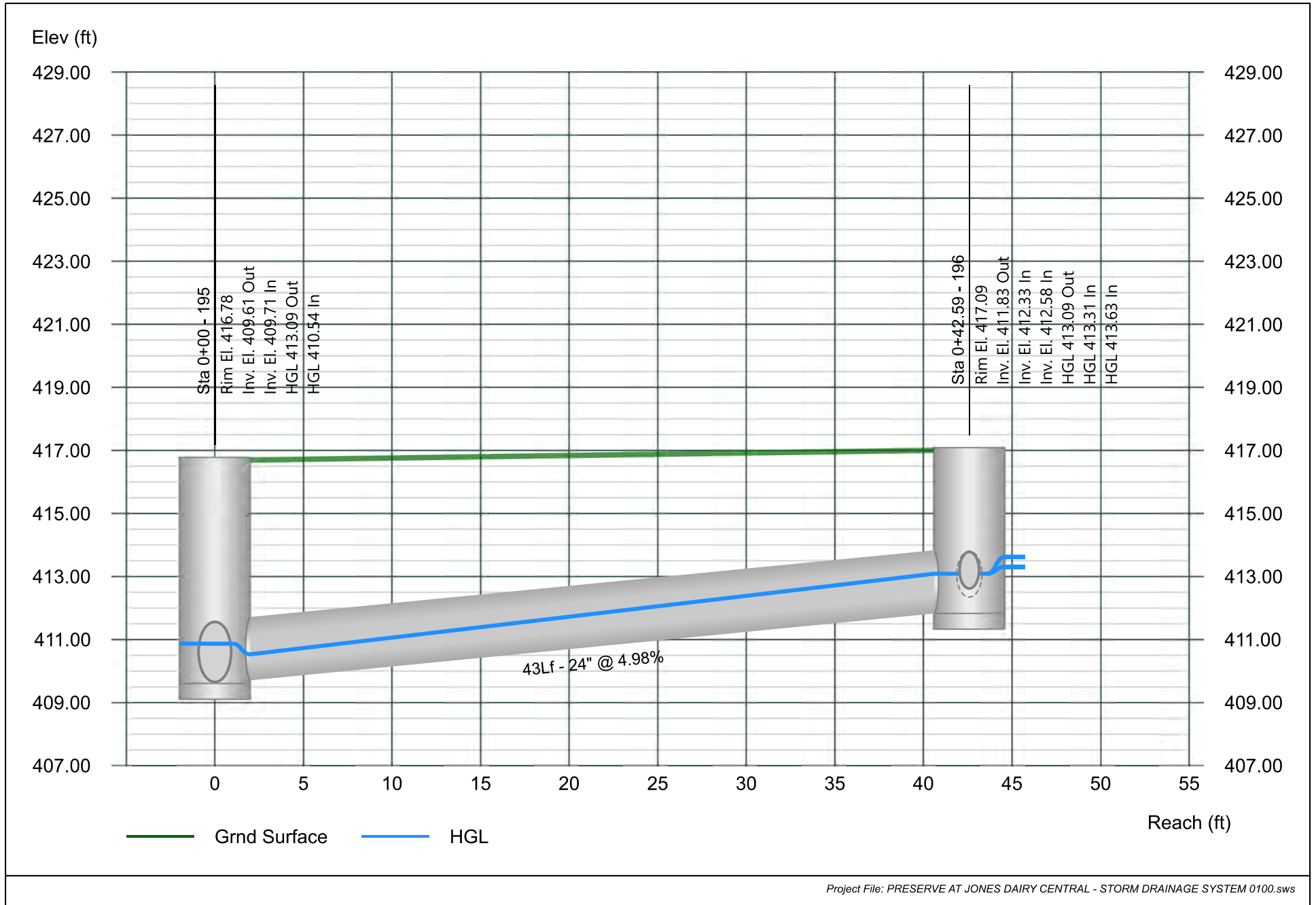
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

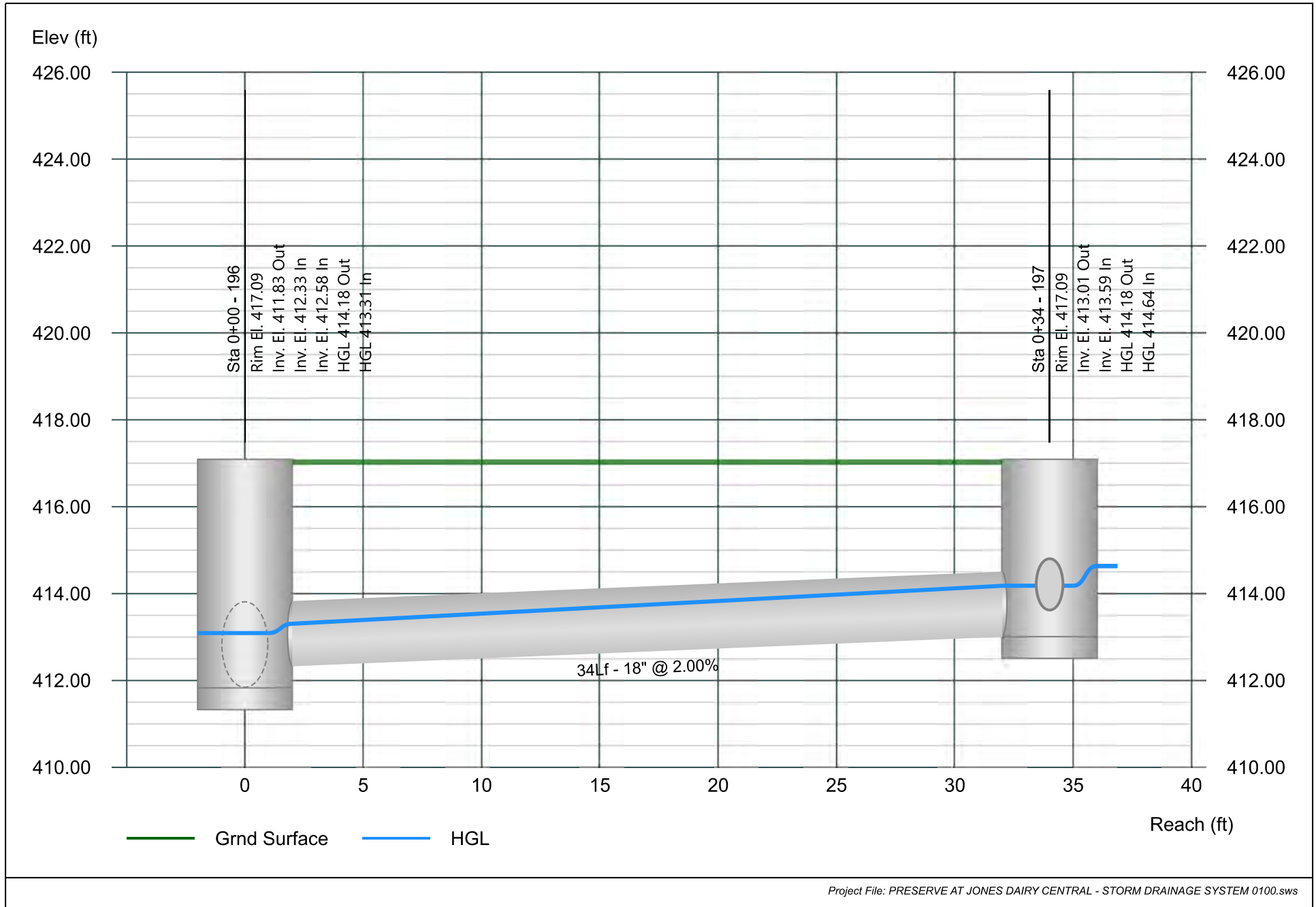
01-19-2024



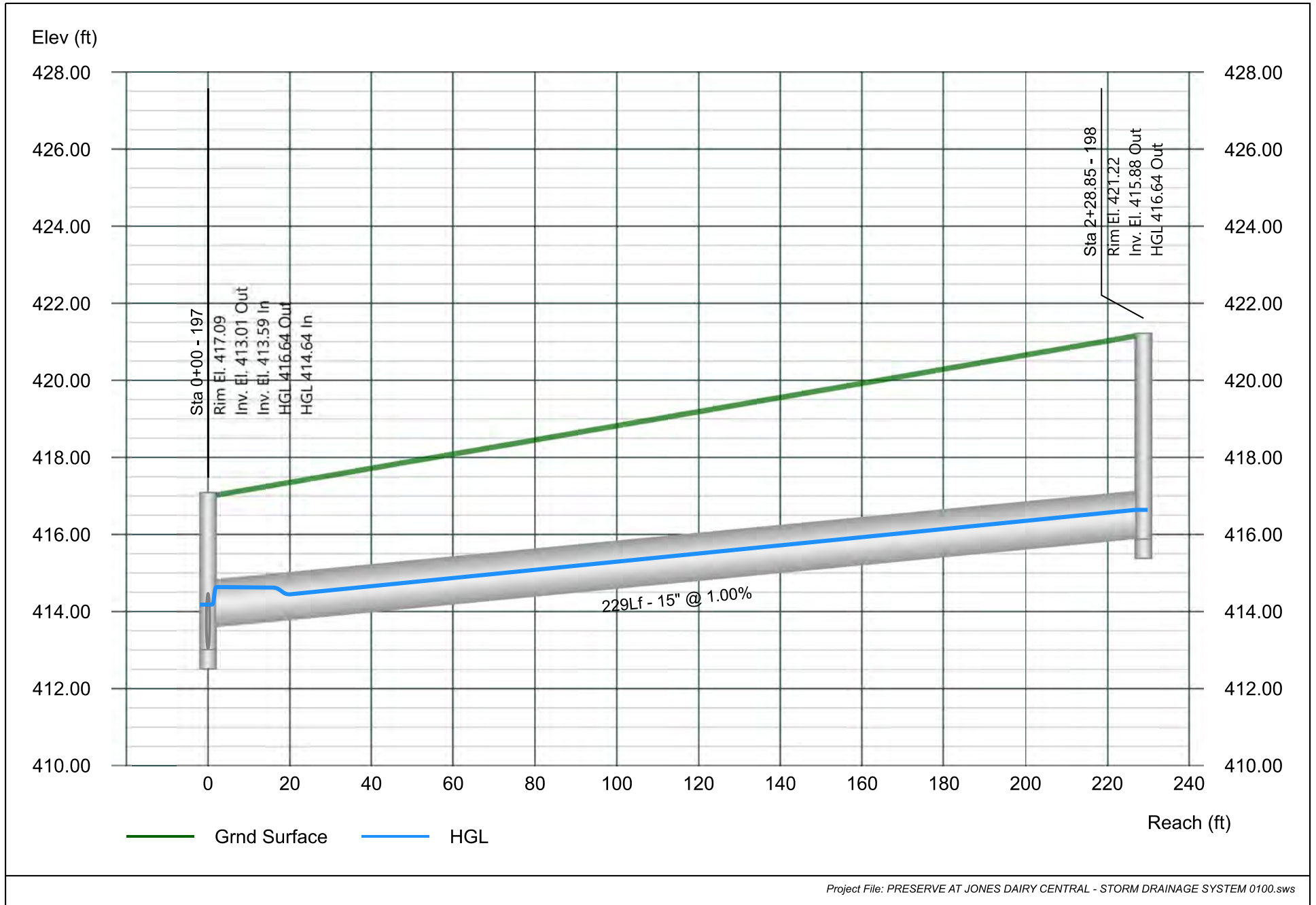
Line 96 - 196 TO 195



Line 97 - 197 TO 196



Line 98 - 198 TO 197

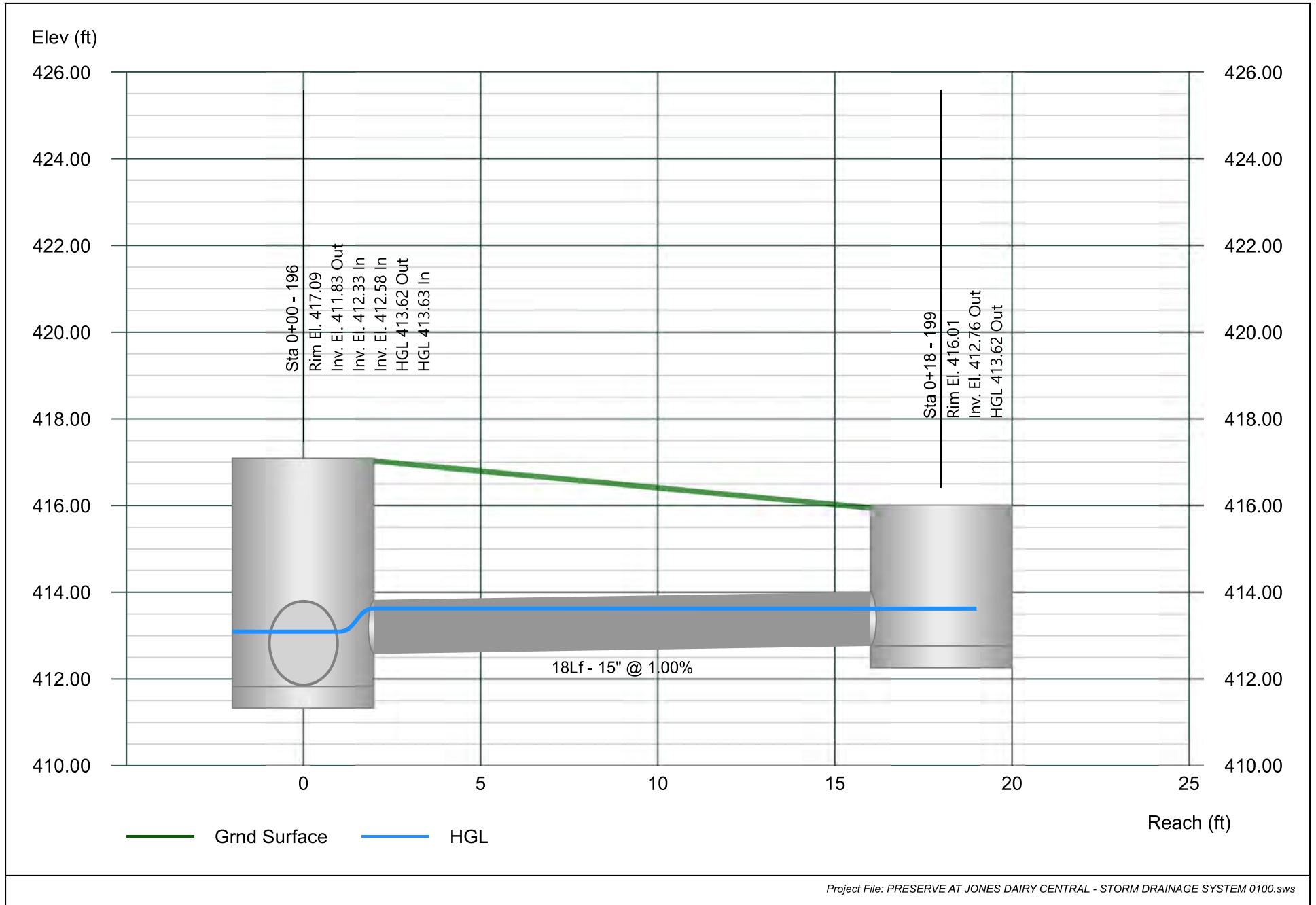


Line 99 - 199 TO 196

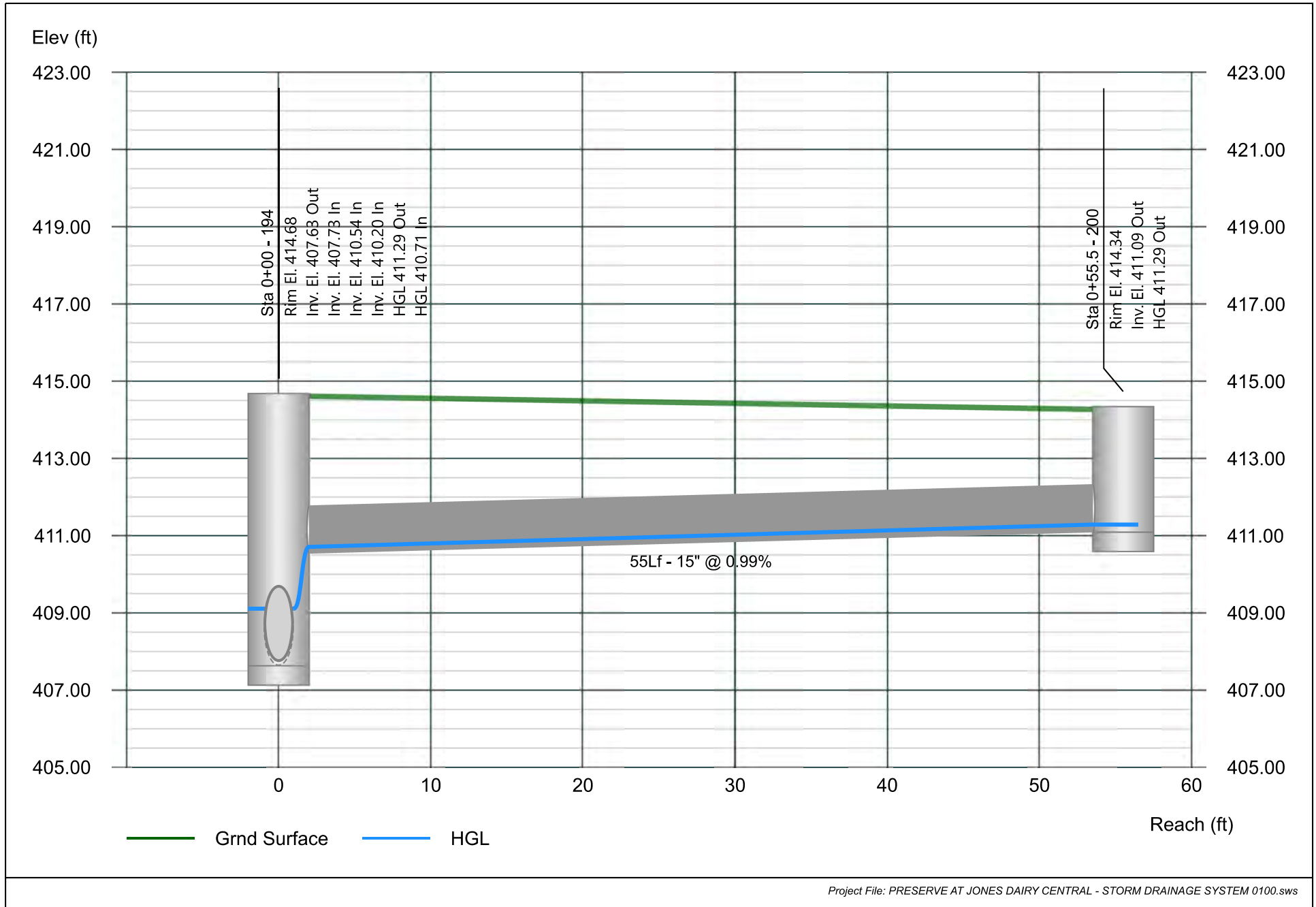
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

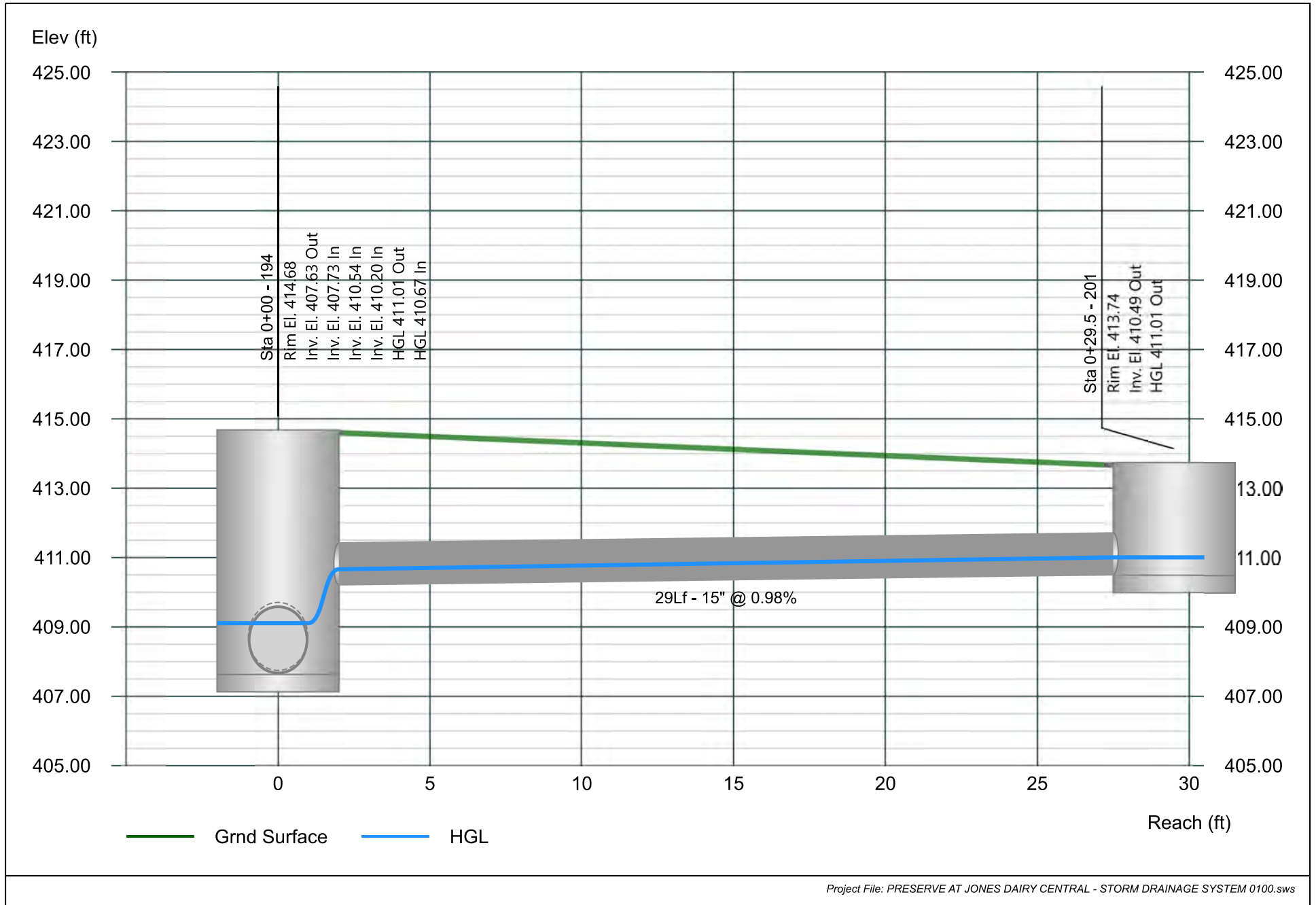
01-19-2024



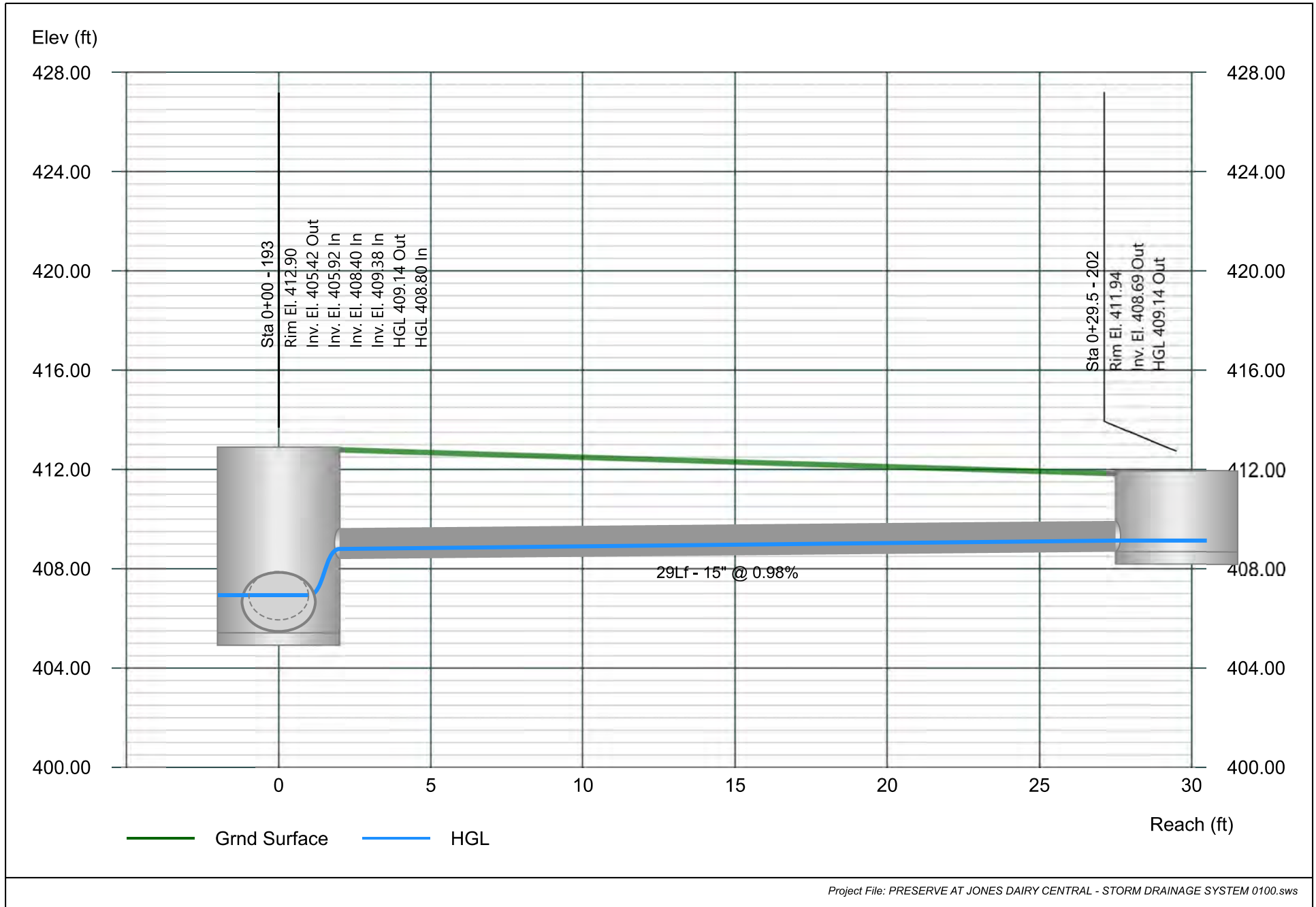
Line 100 - 200 TO 194



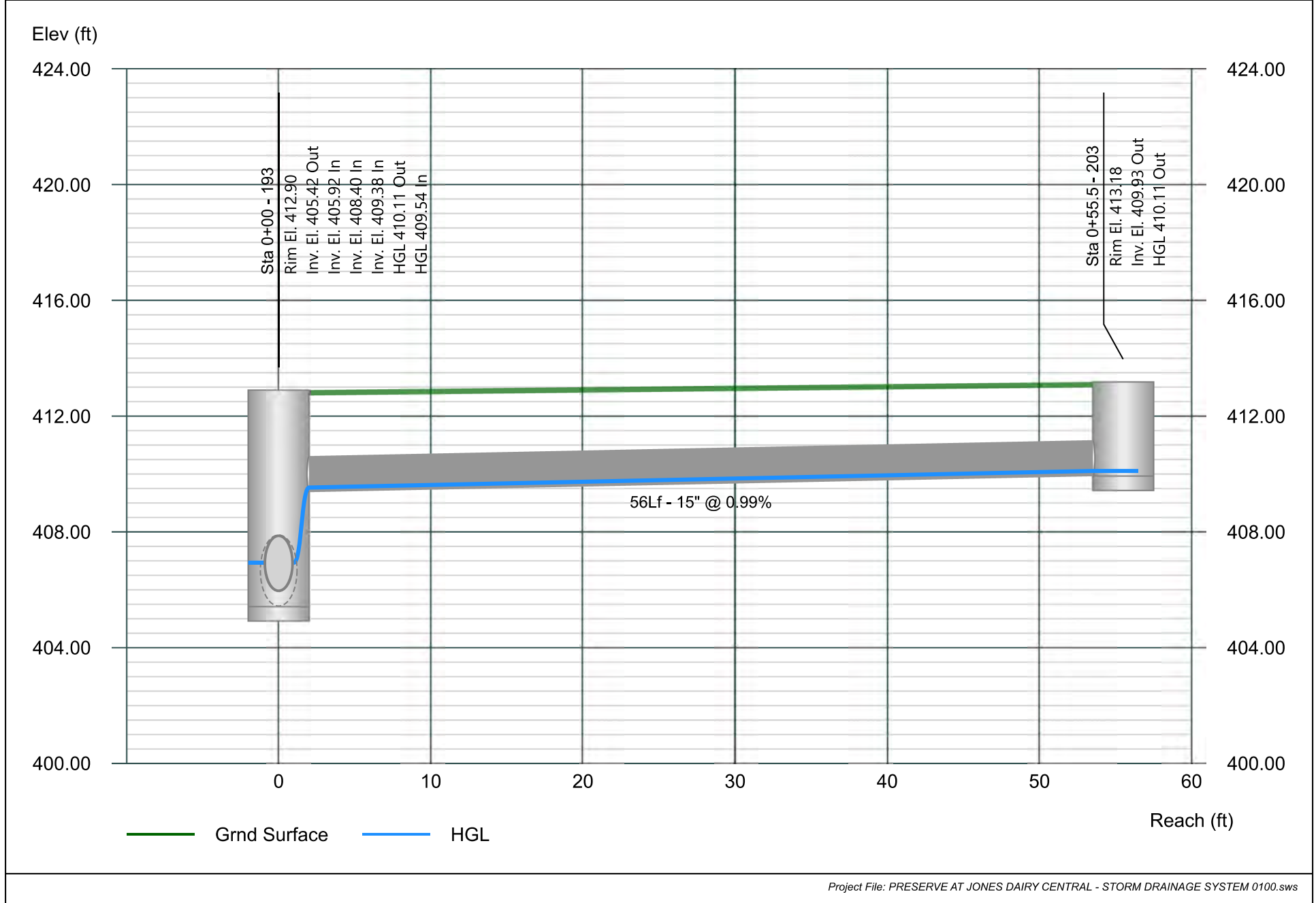
Line 101 - 201 TO 194



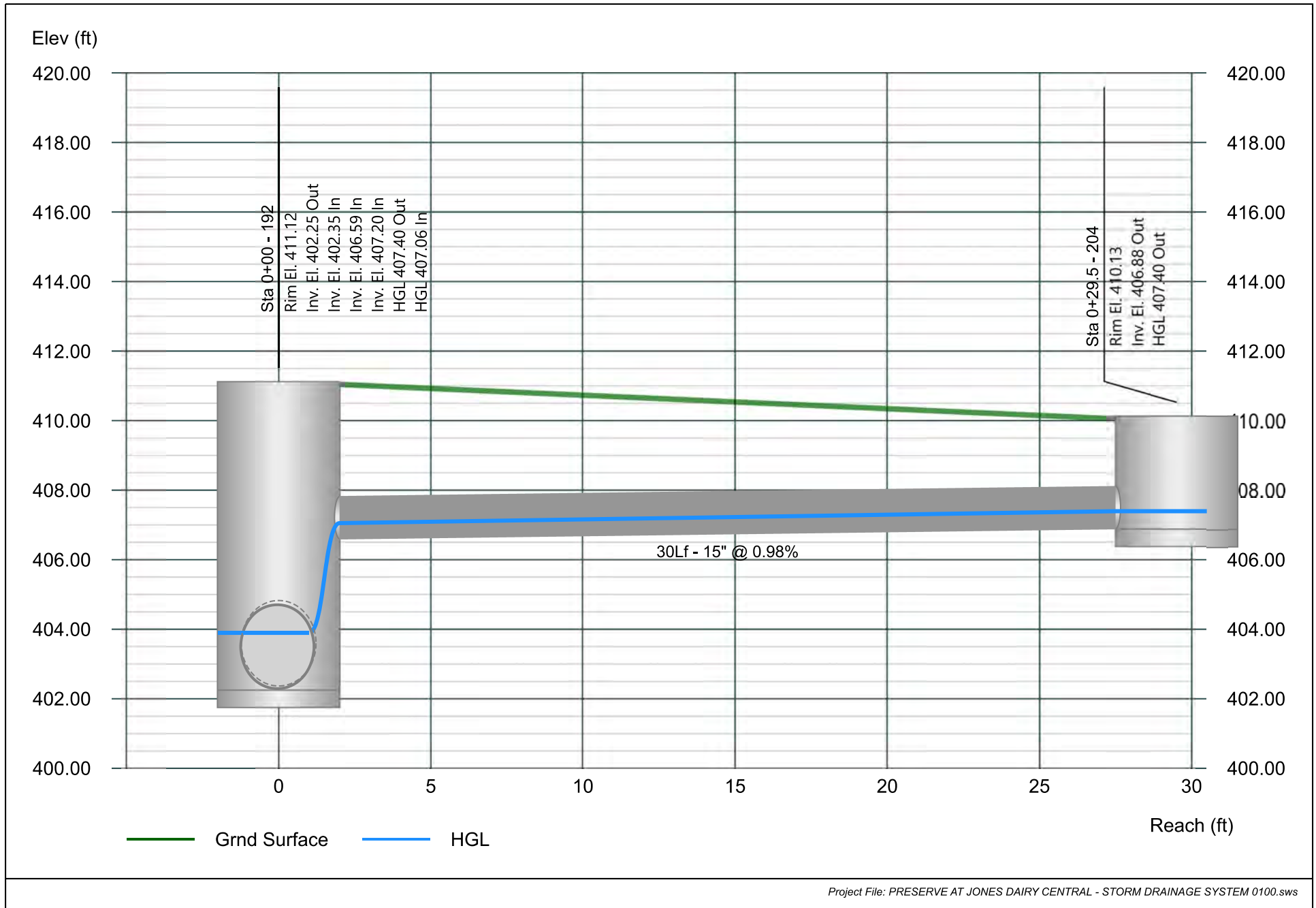
Line 102 - 202 TO 193



Line 103 - 203 TO 193



Line 104 - 204 TO 192

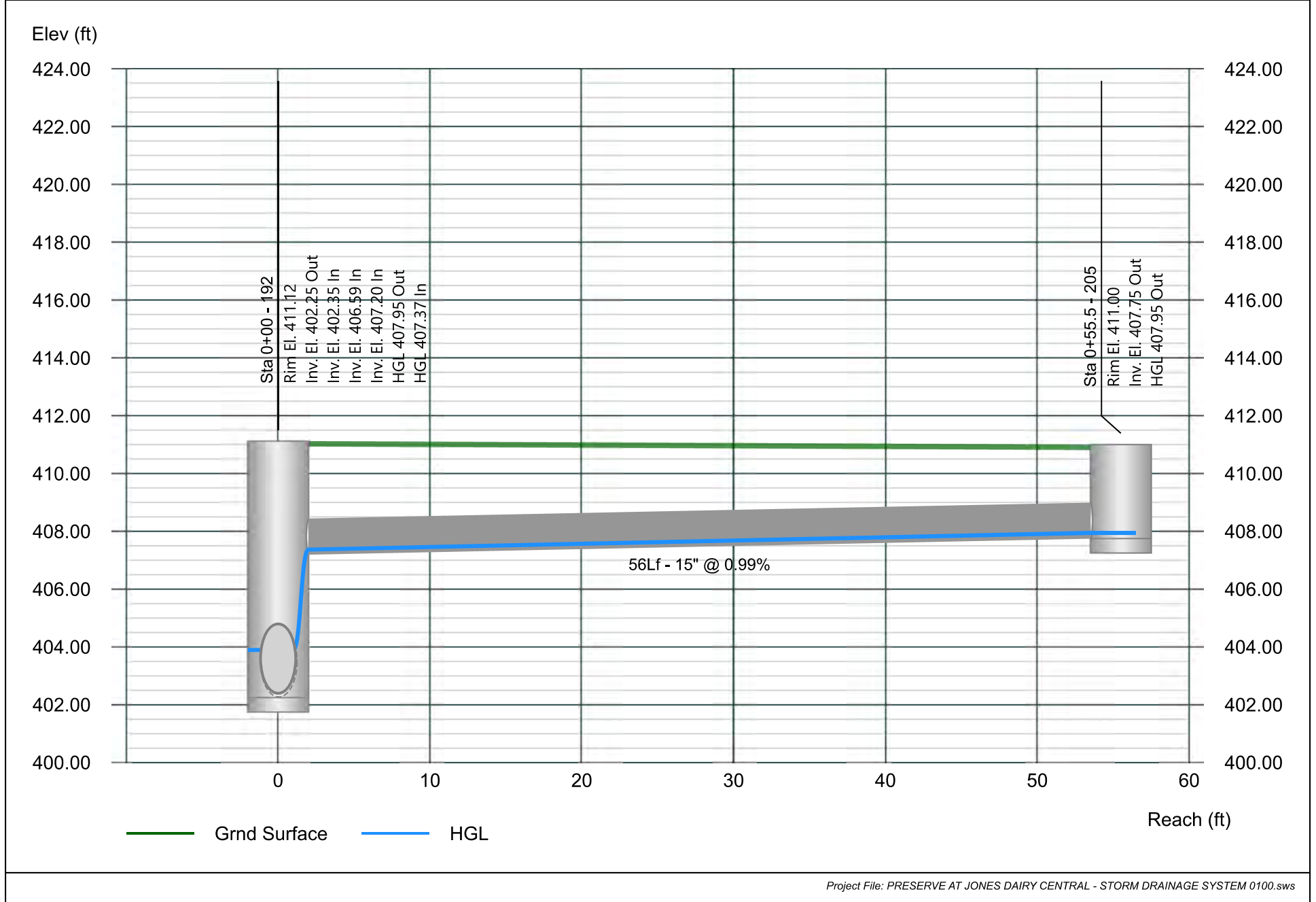


Line 105 - 205 TO 192

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

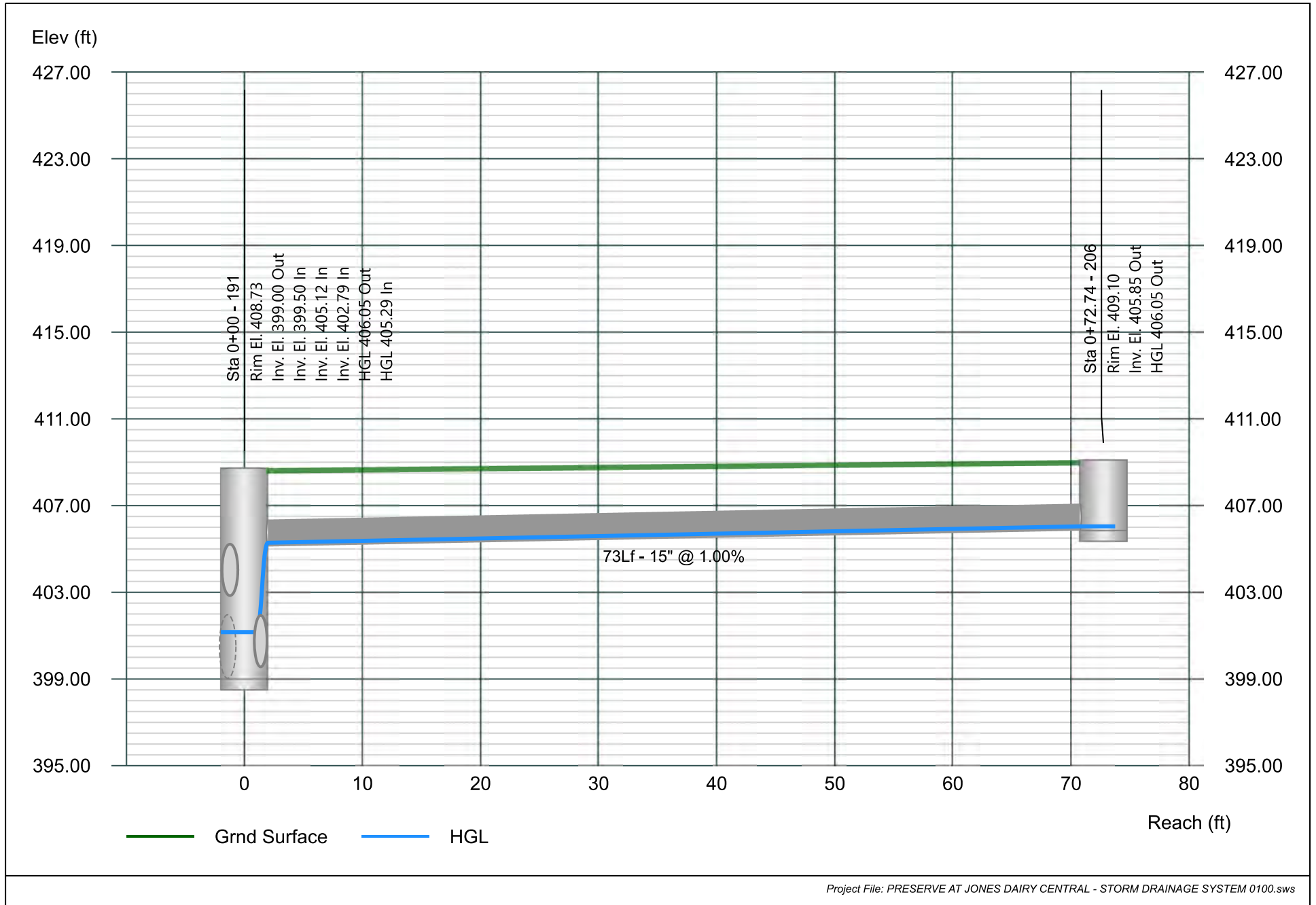


Line 106 - 206 TO 191

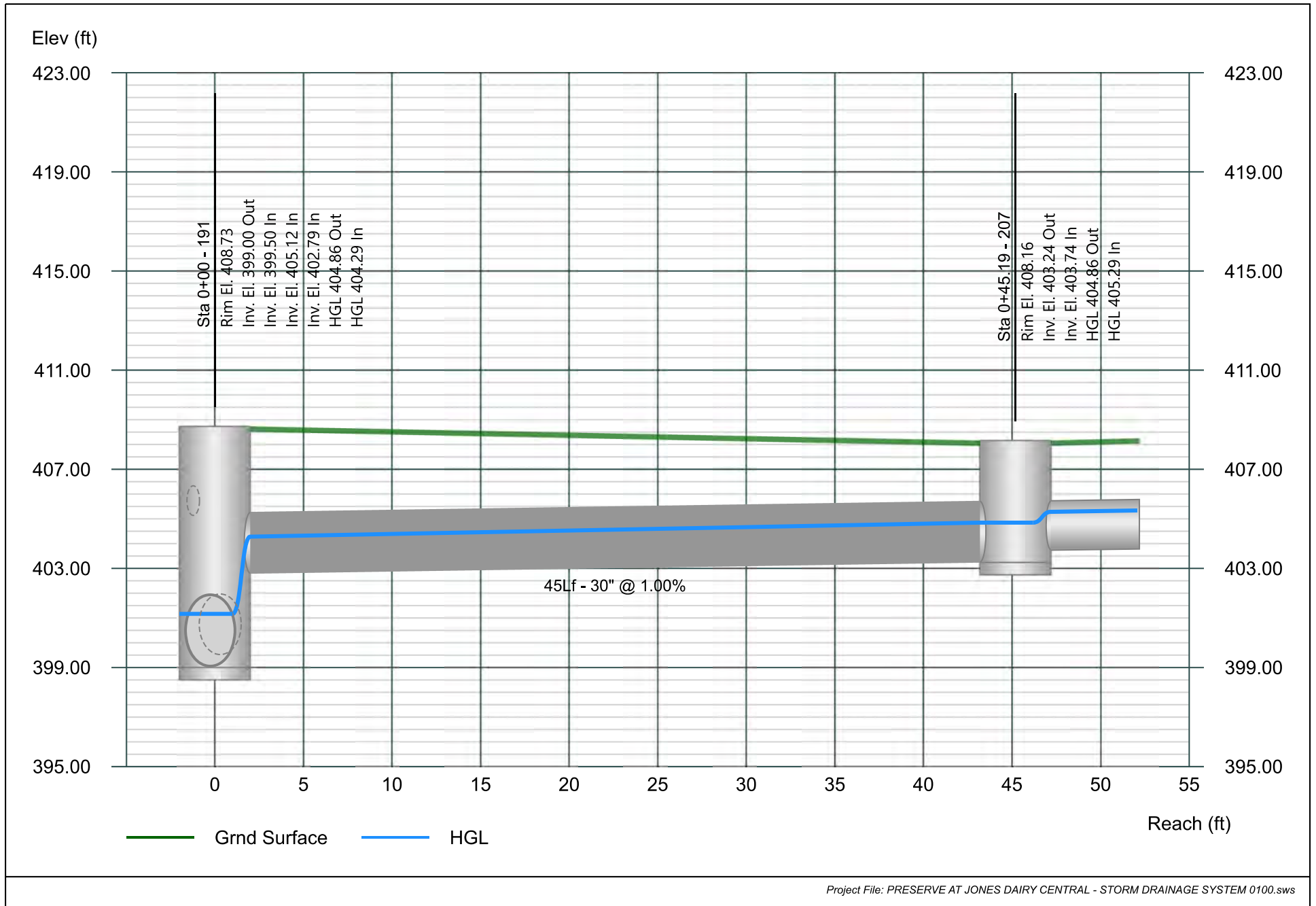
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

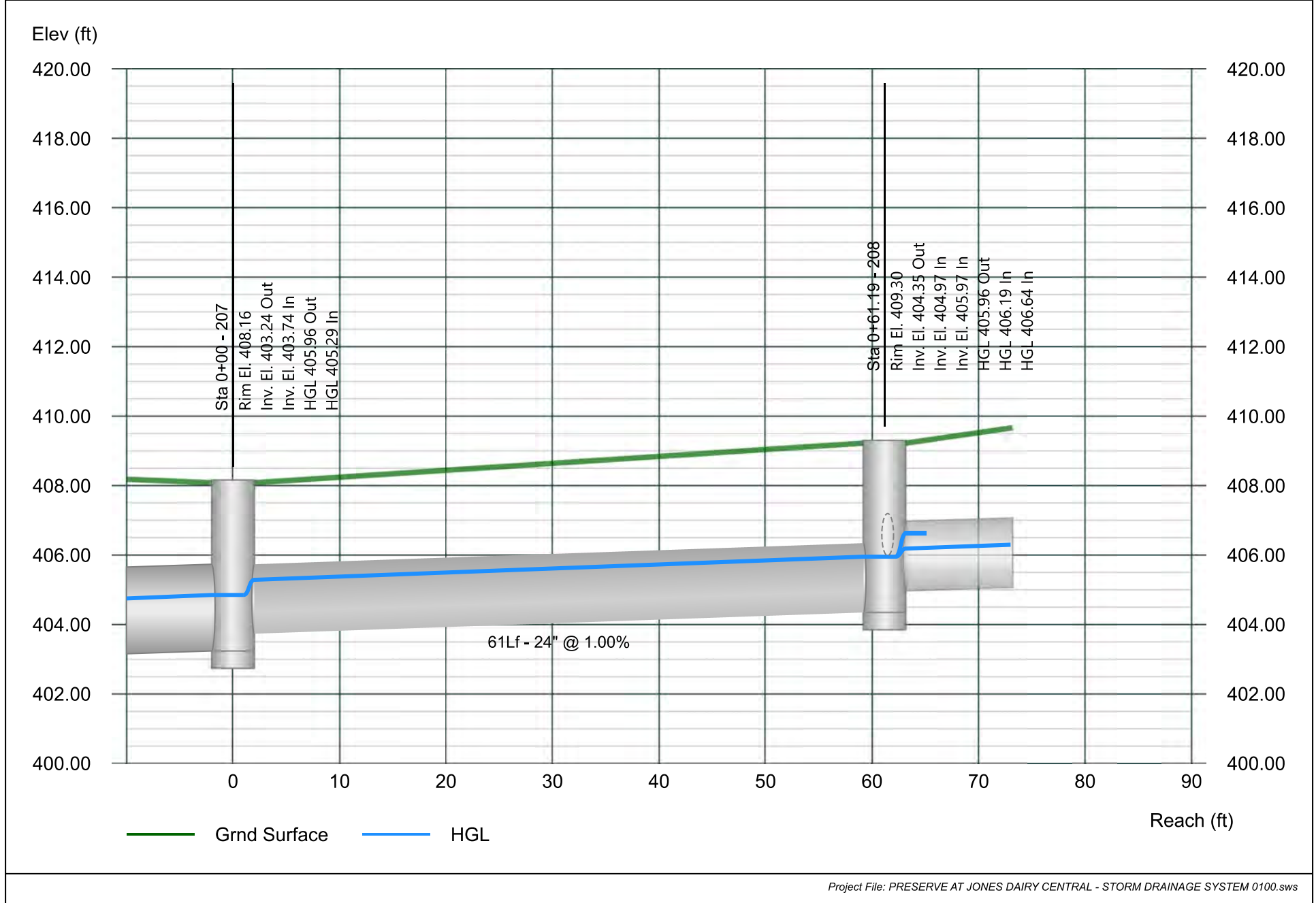
01-19-2024



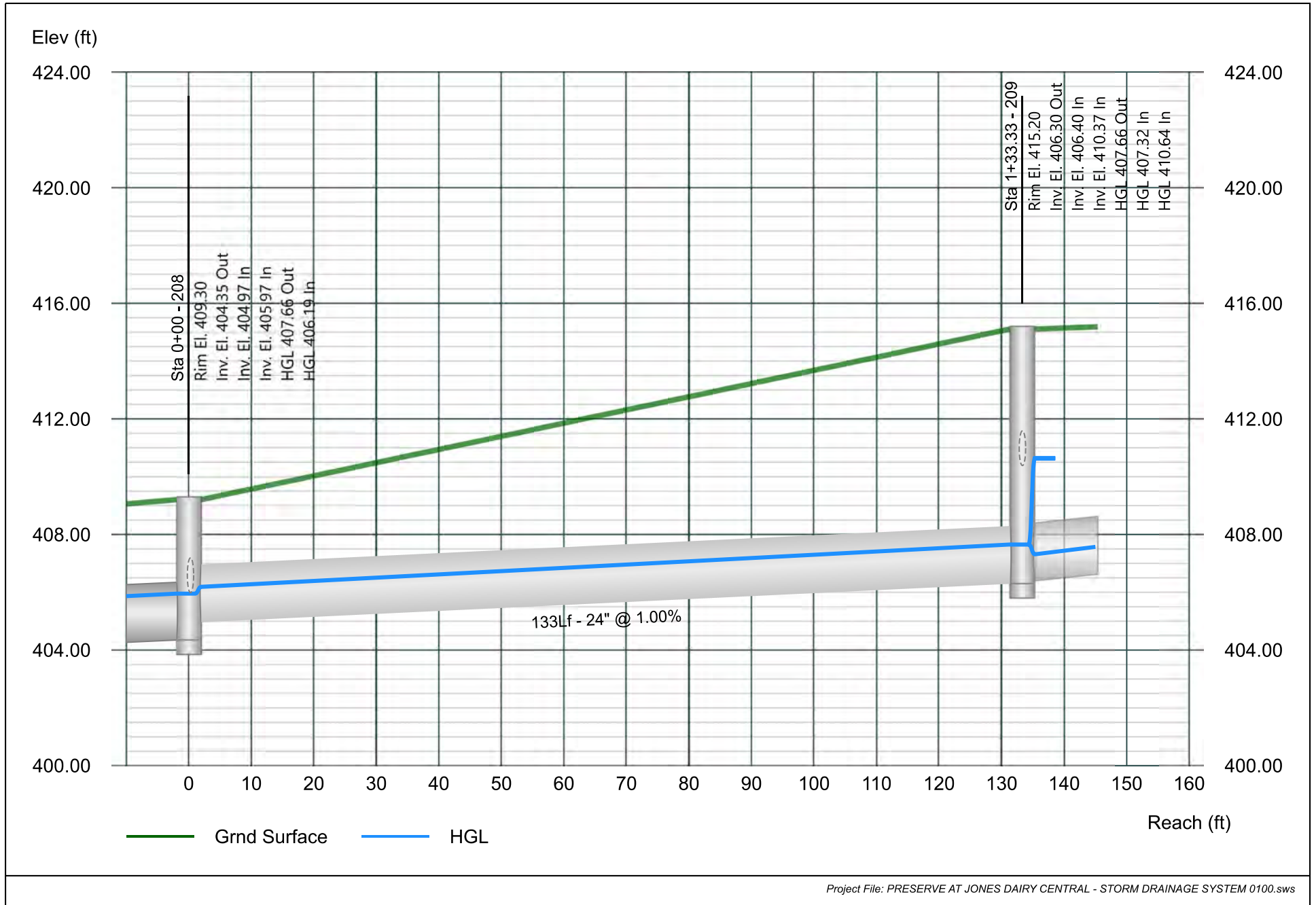
Line 107 - 207 TO 191



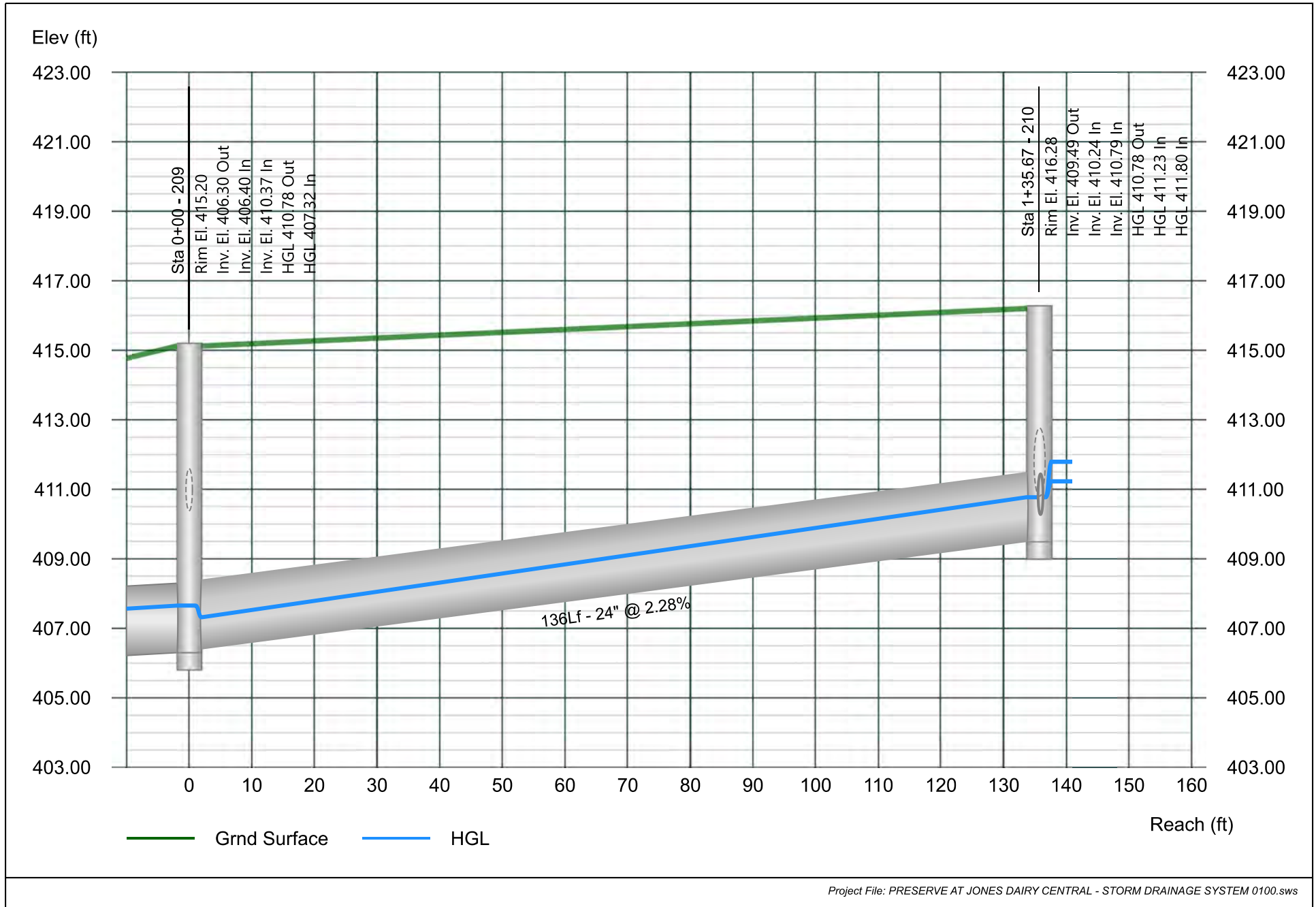
Line 108 - 208 TO 207



Line 109 - 209 TO 208



Line 110 - 210 TO 209

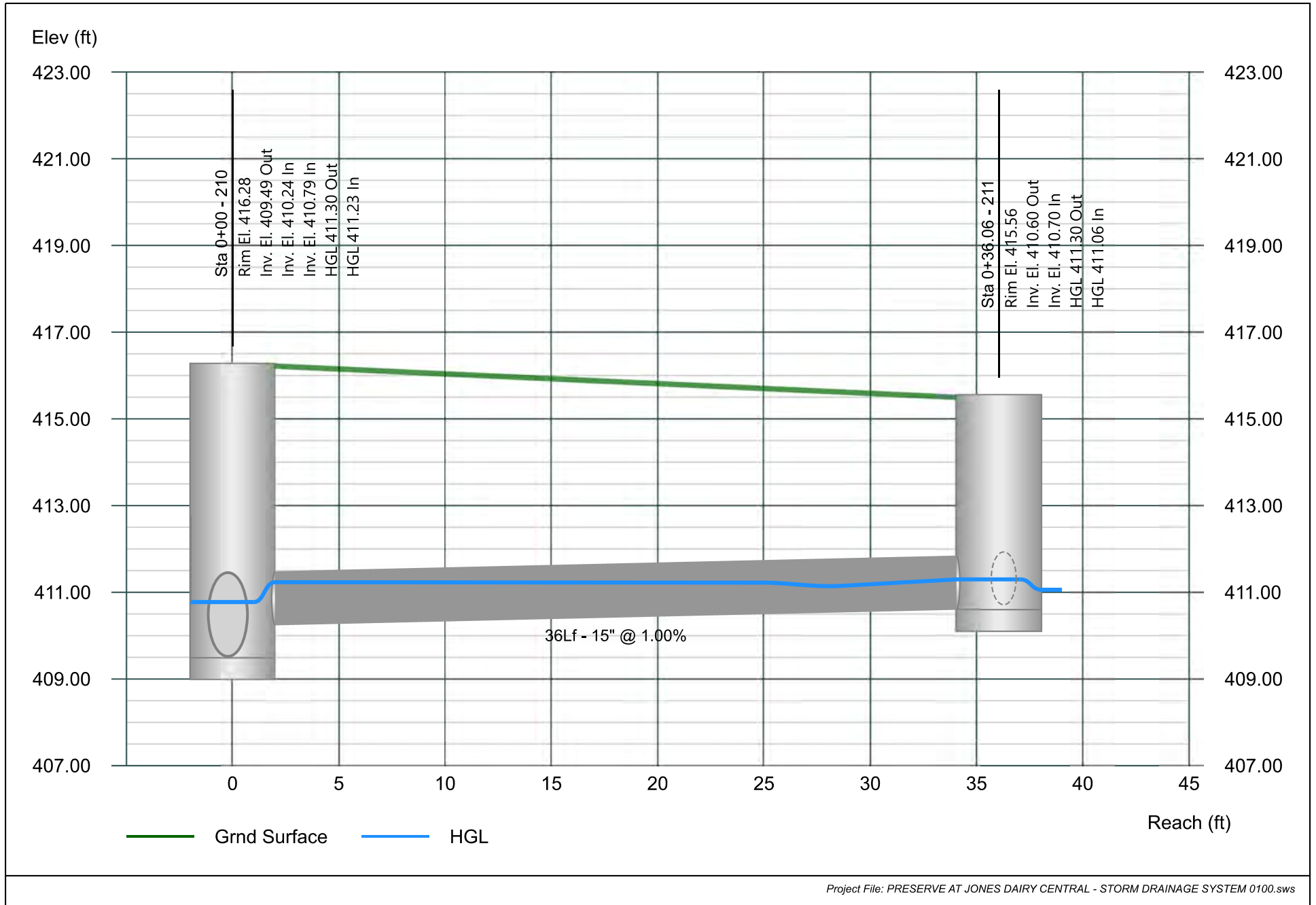


Line 111 - 211 TO 210

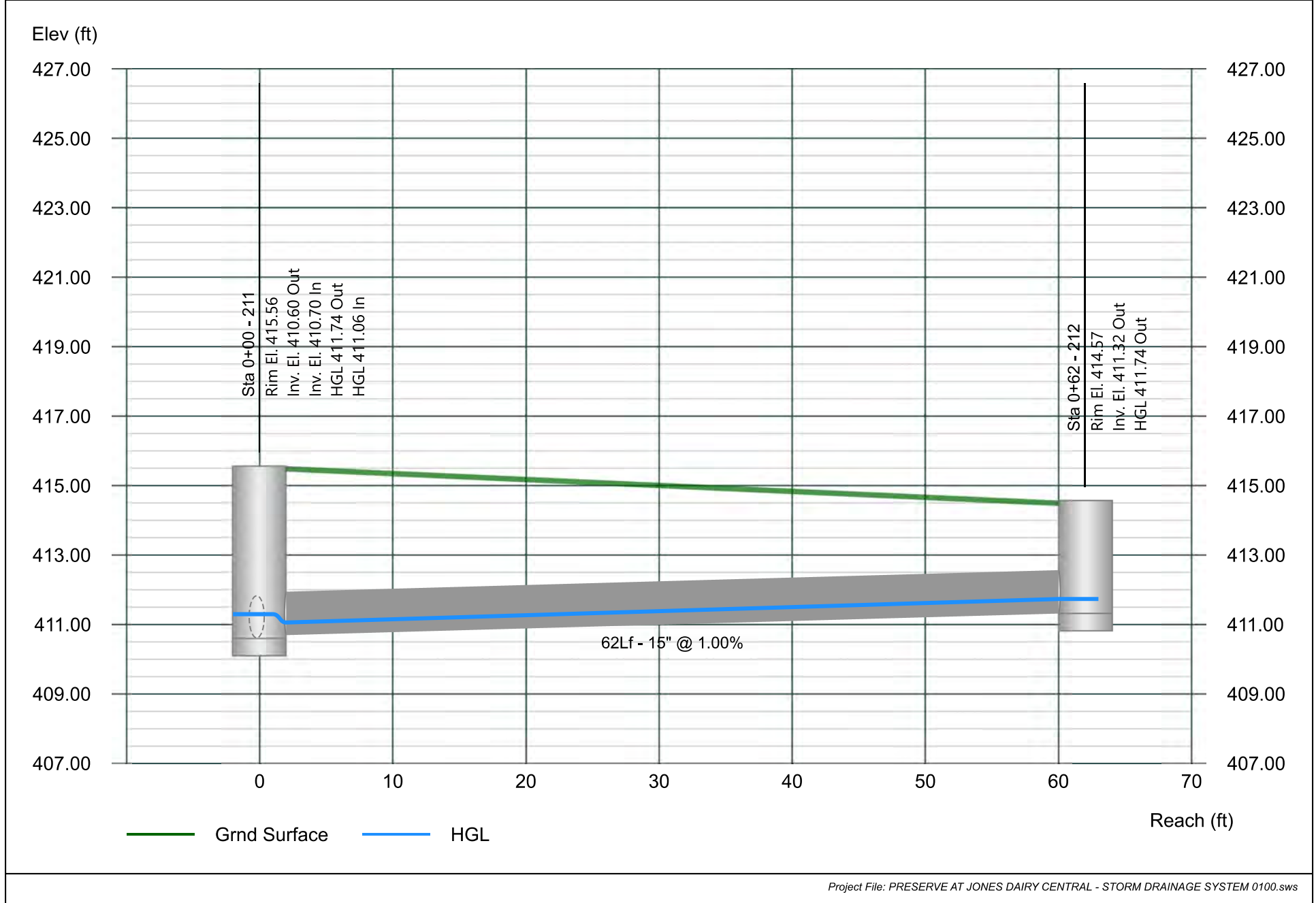
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

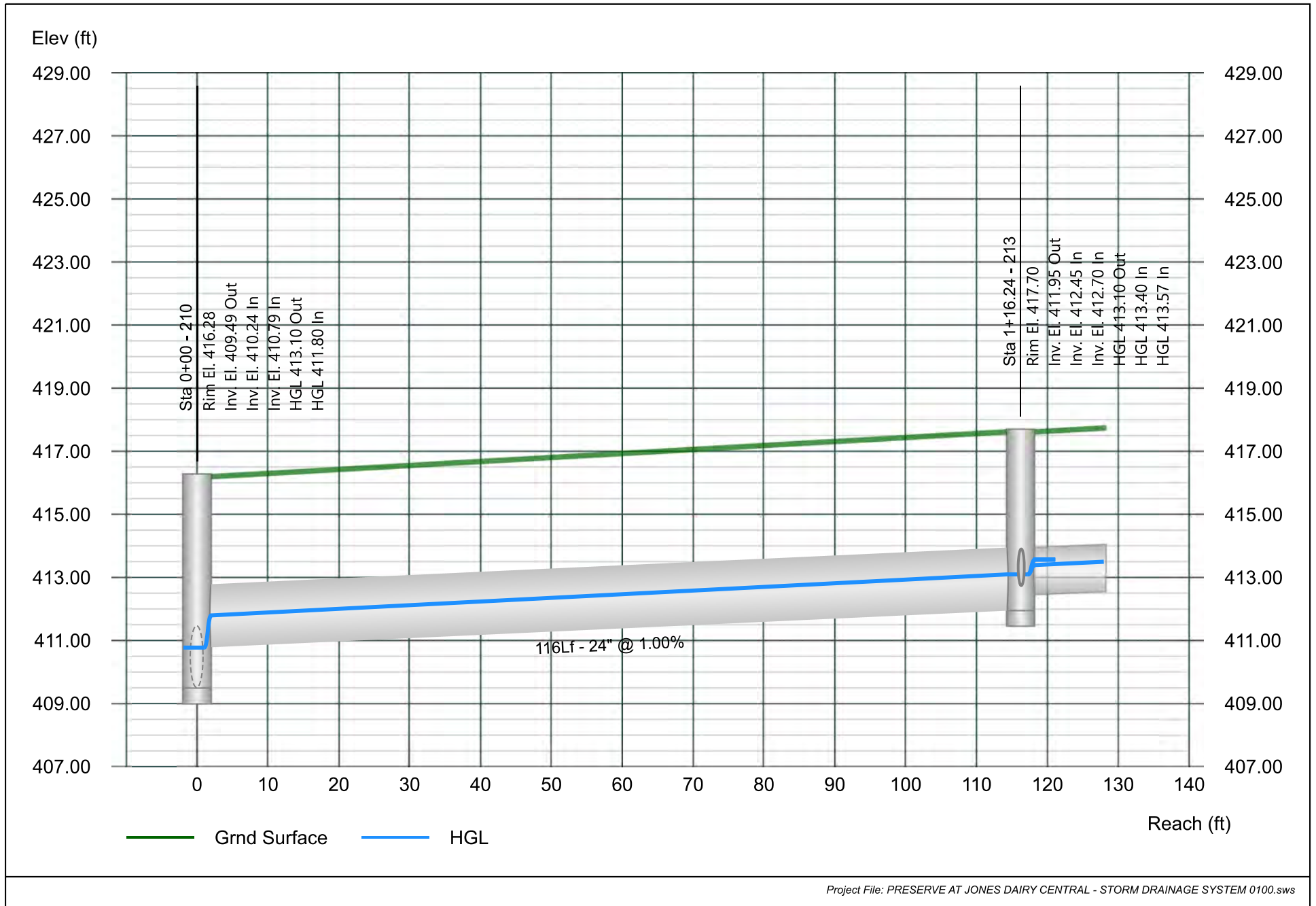
01-19-2024



Line 112 - 212 TO 211



Line 113 - 213 TO 210

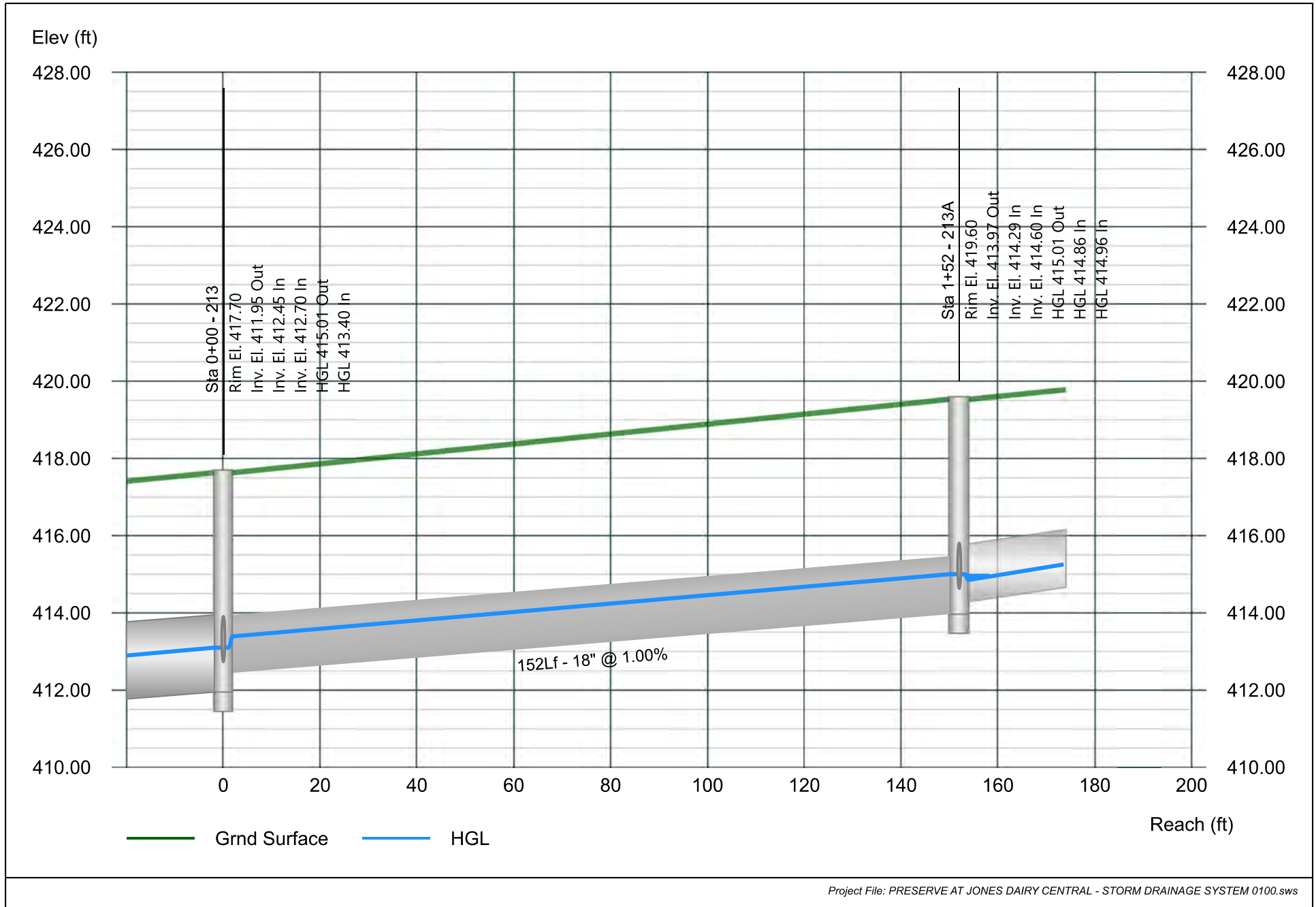


Line 114 - 213A TO 213

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

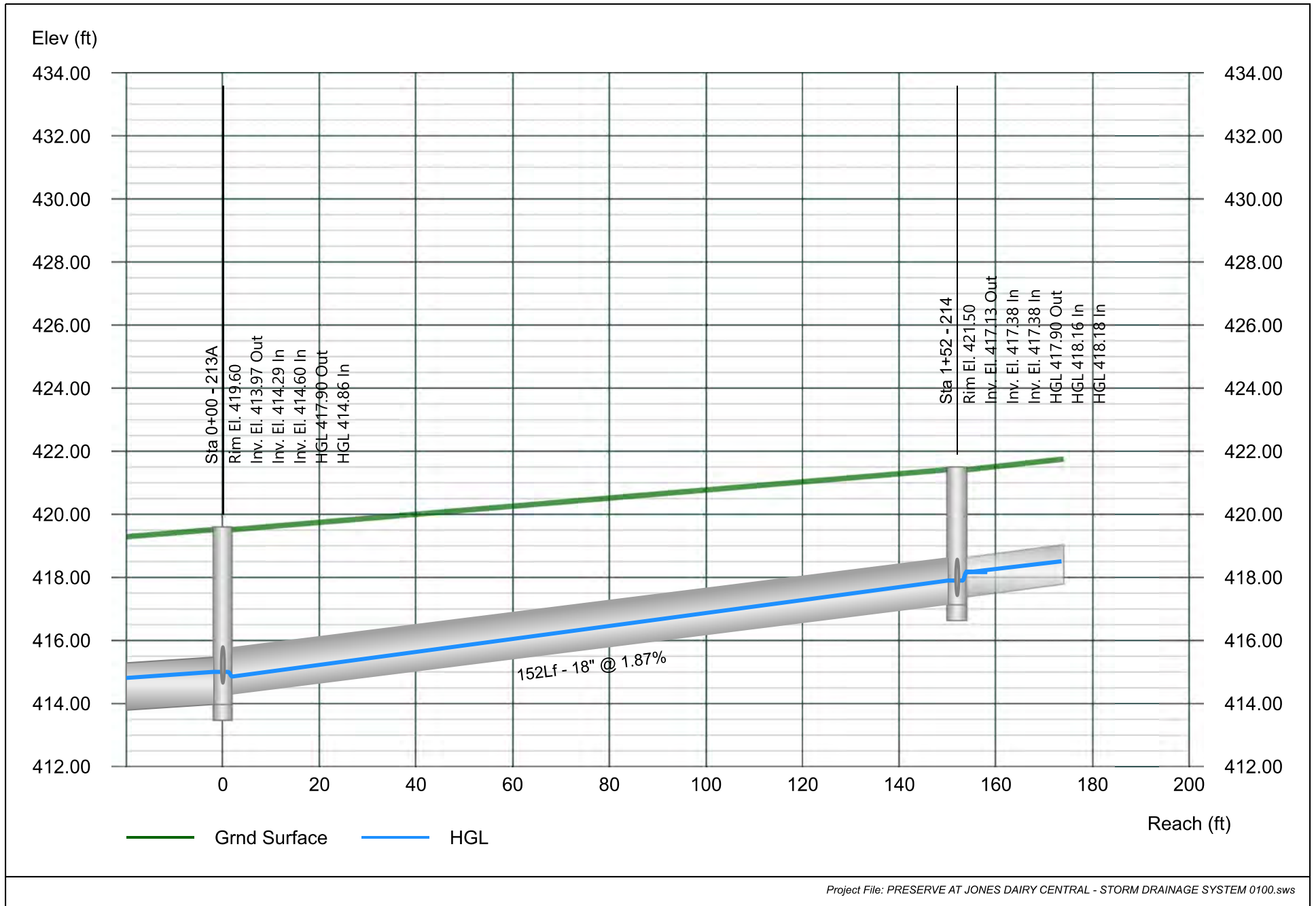


Line 115 - 214 TO 213A

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

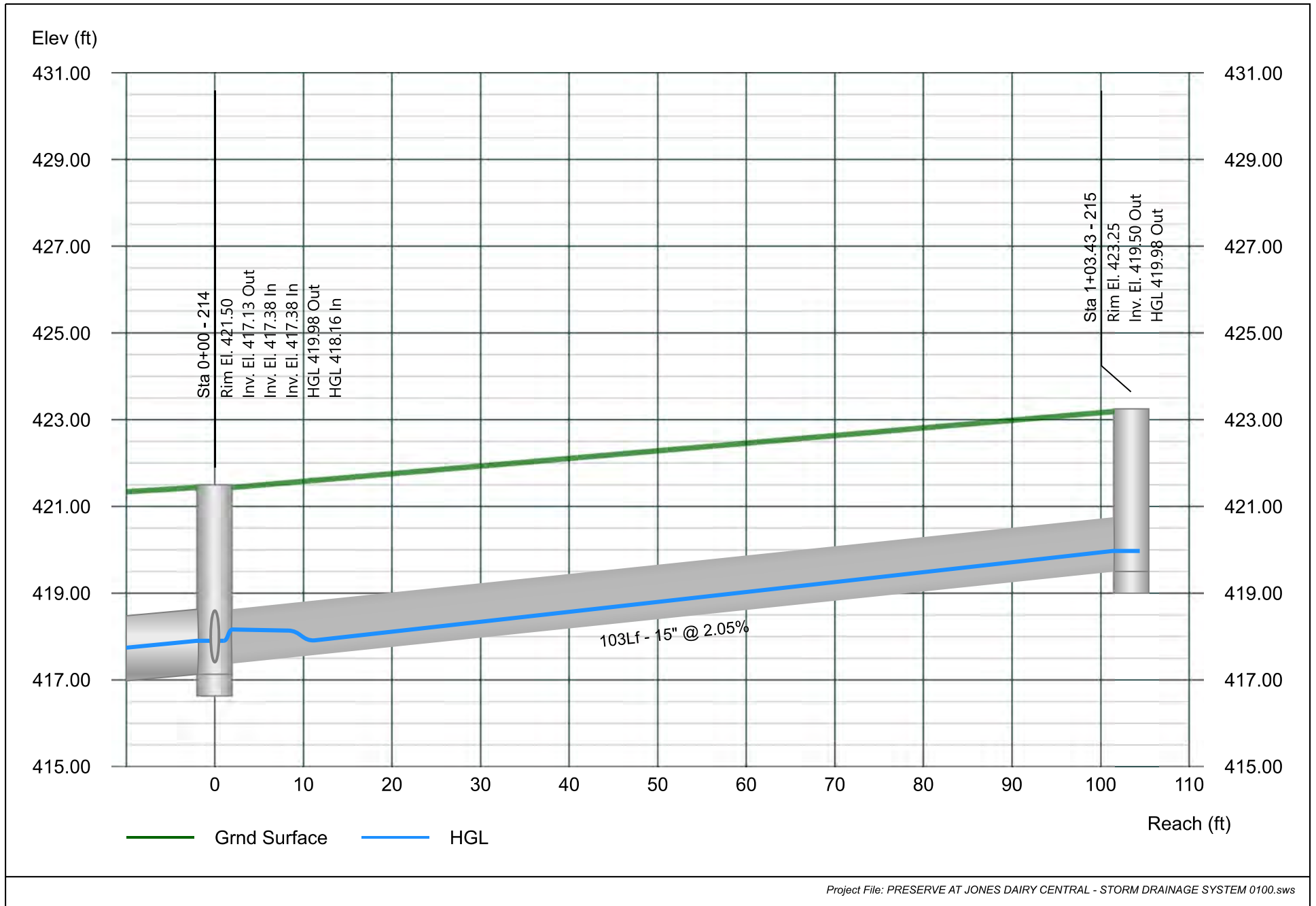


Line 116 - 215 TO 214

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

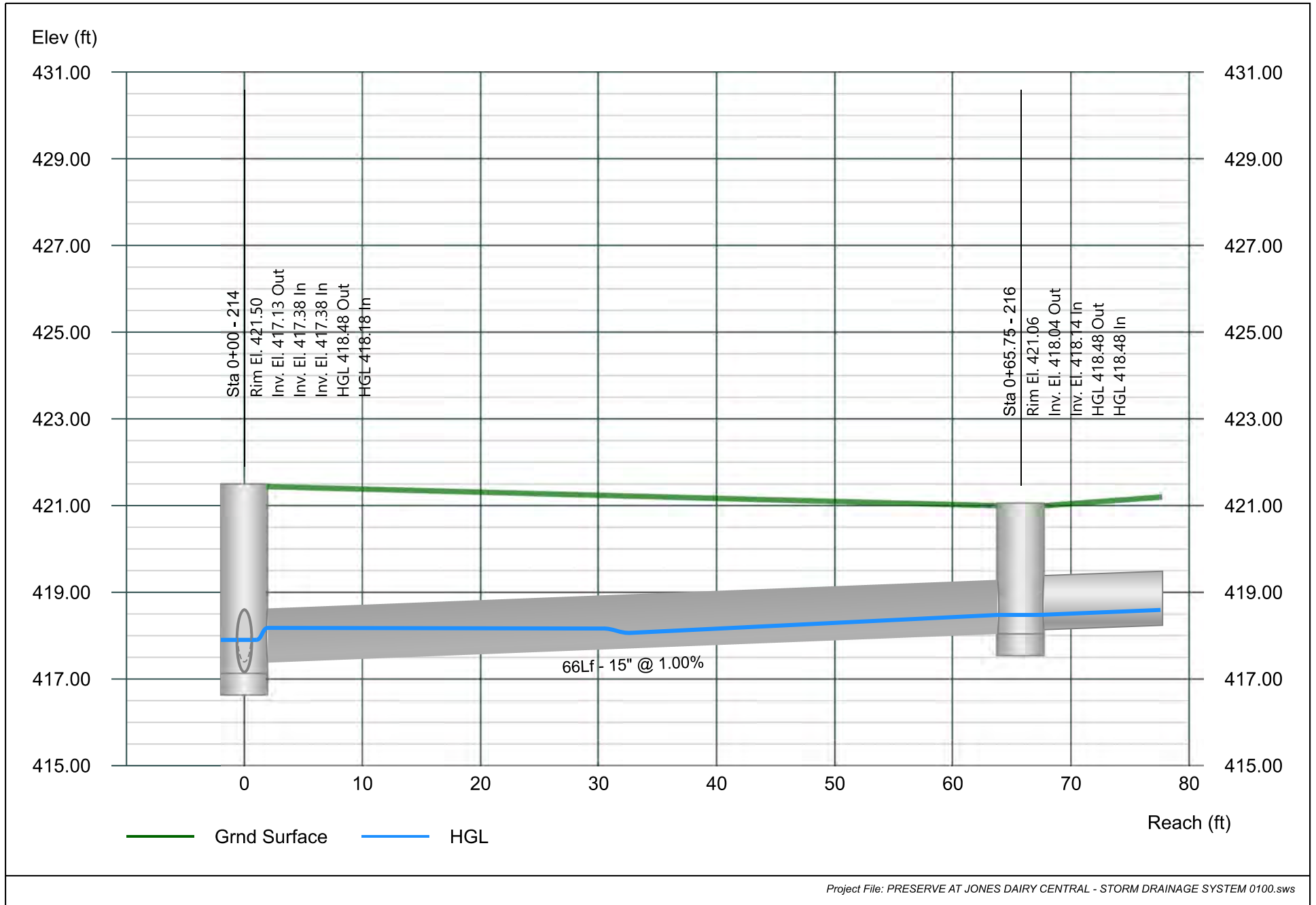


Line 117 - 216 TO 214

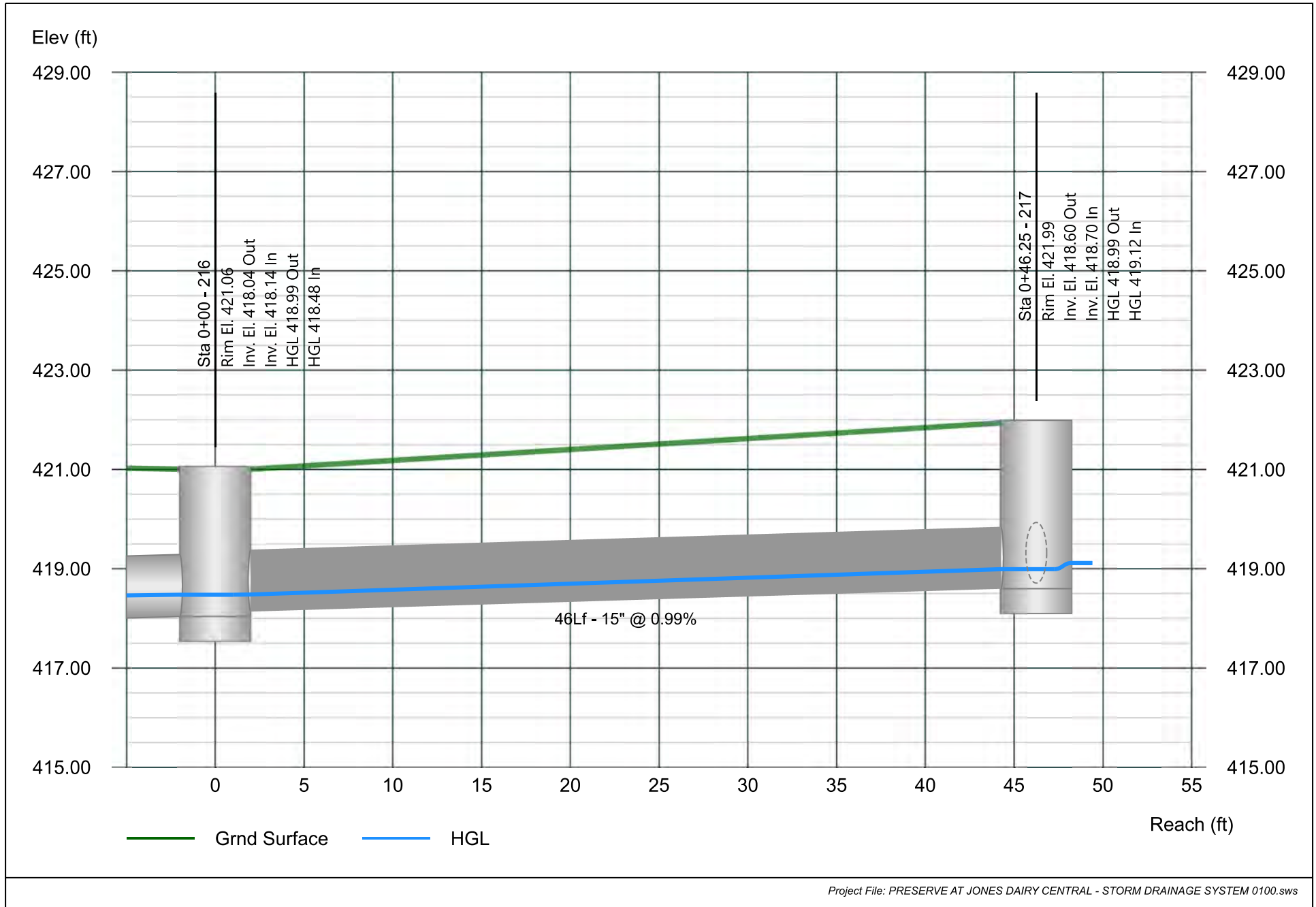
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

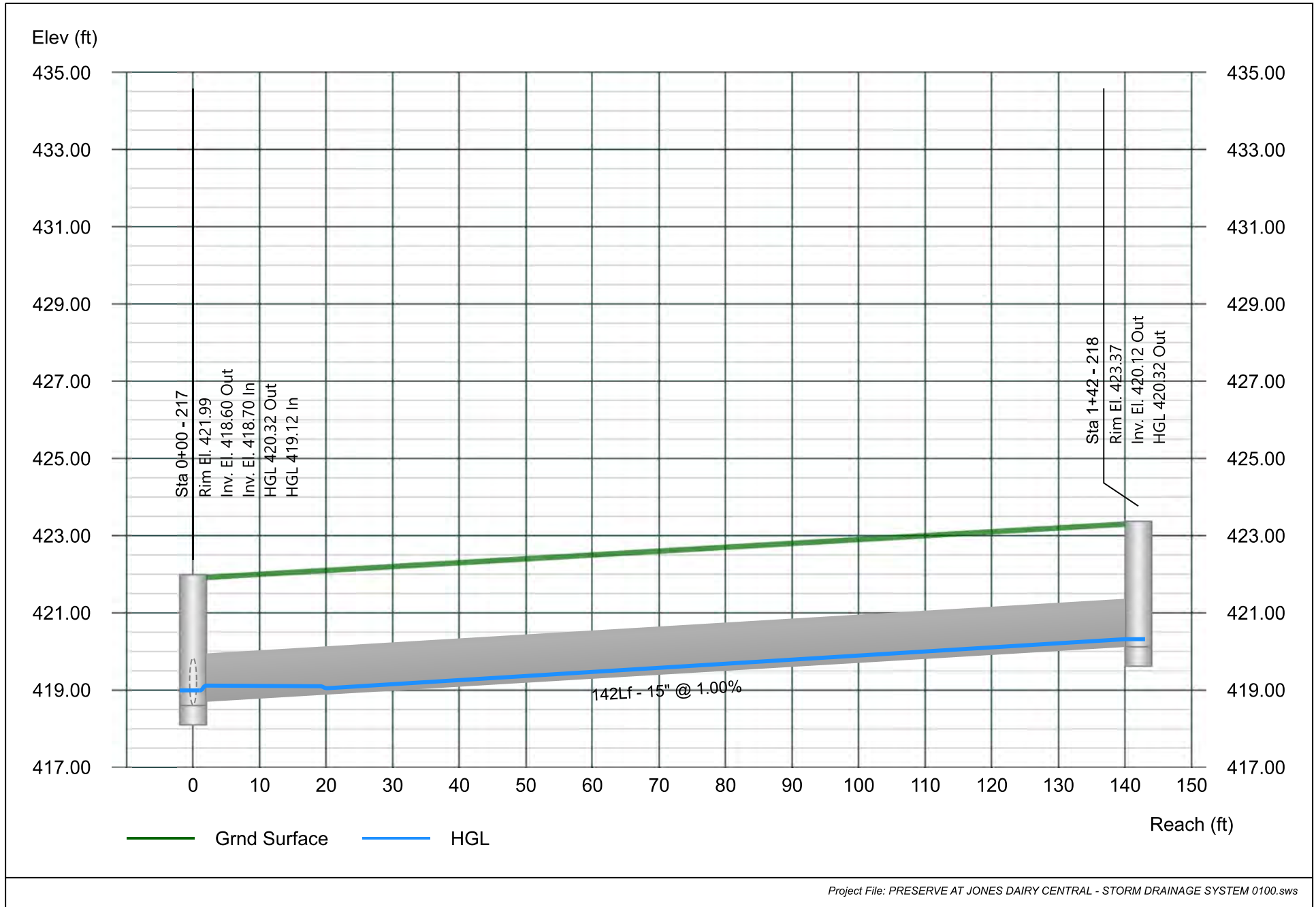
01-19-2024



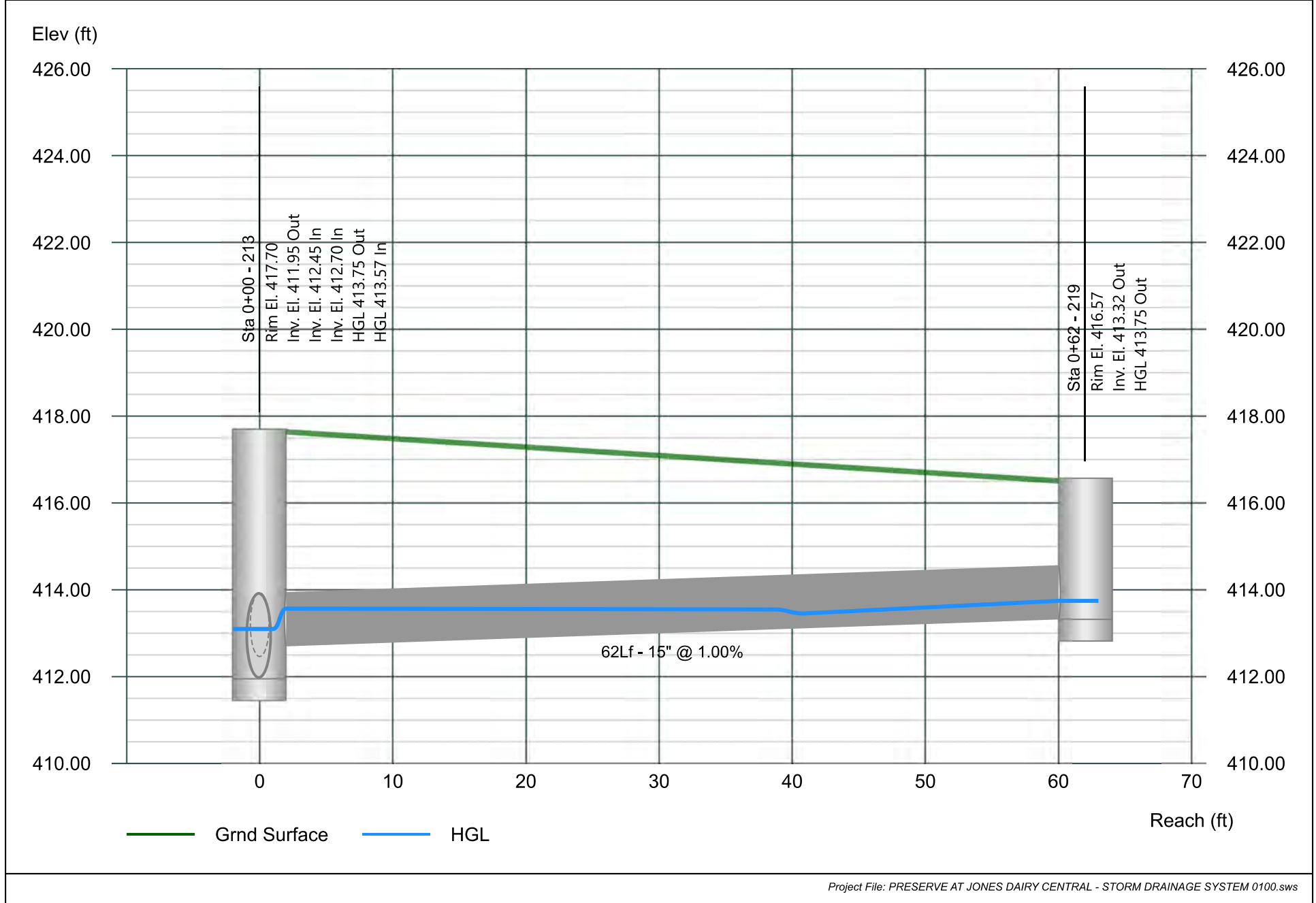
Line 118 - 217 TO 216



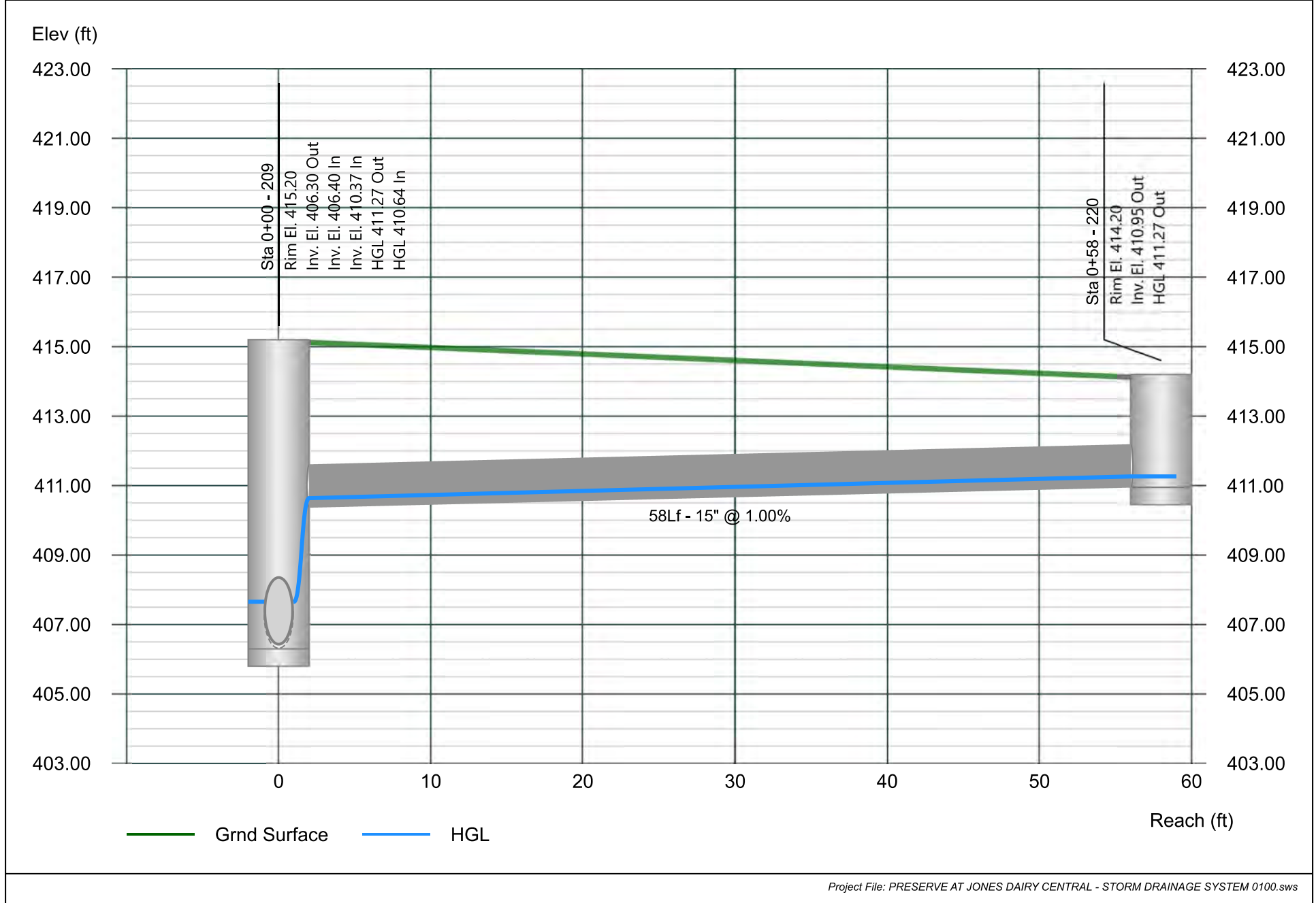
Line 119 - 218 TO 217



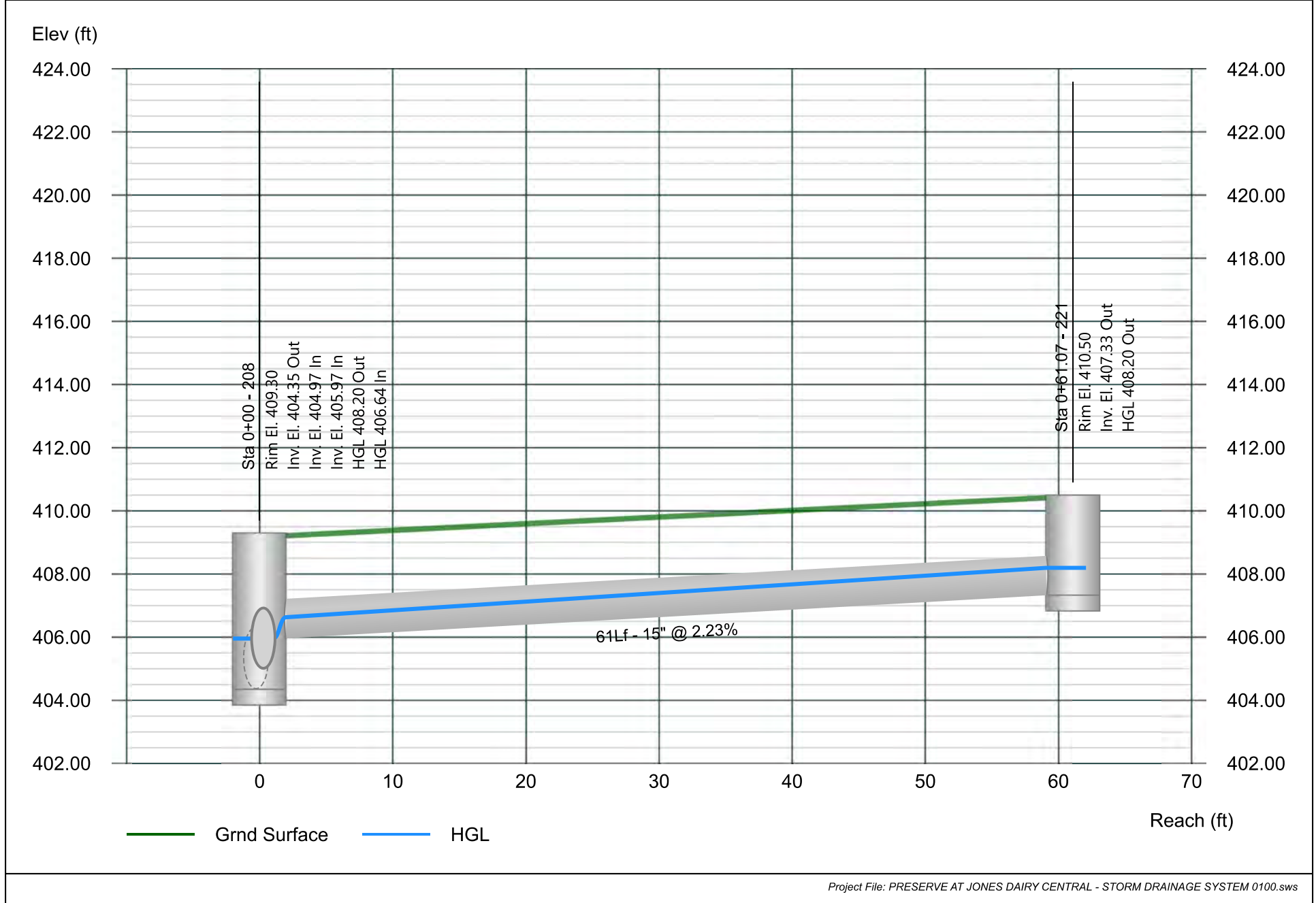
Line 120 - 219 TO 213



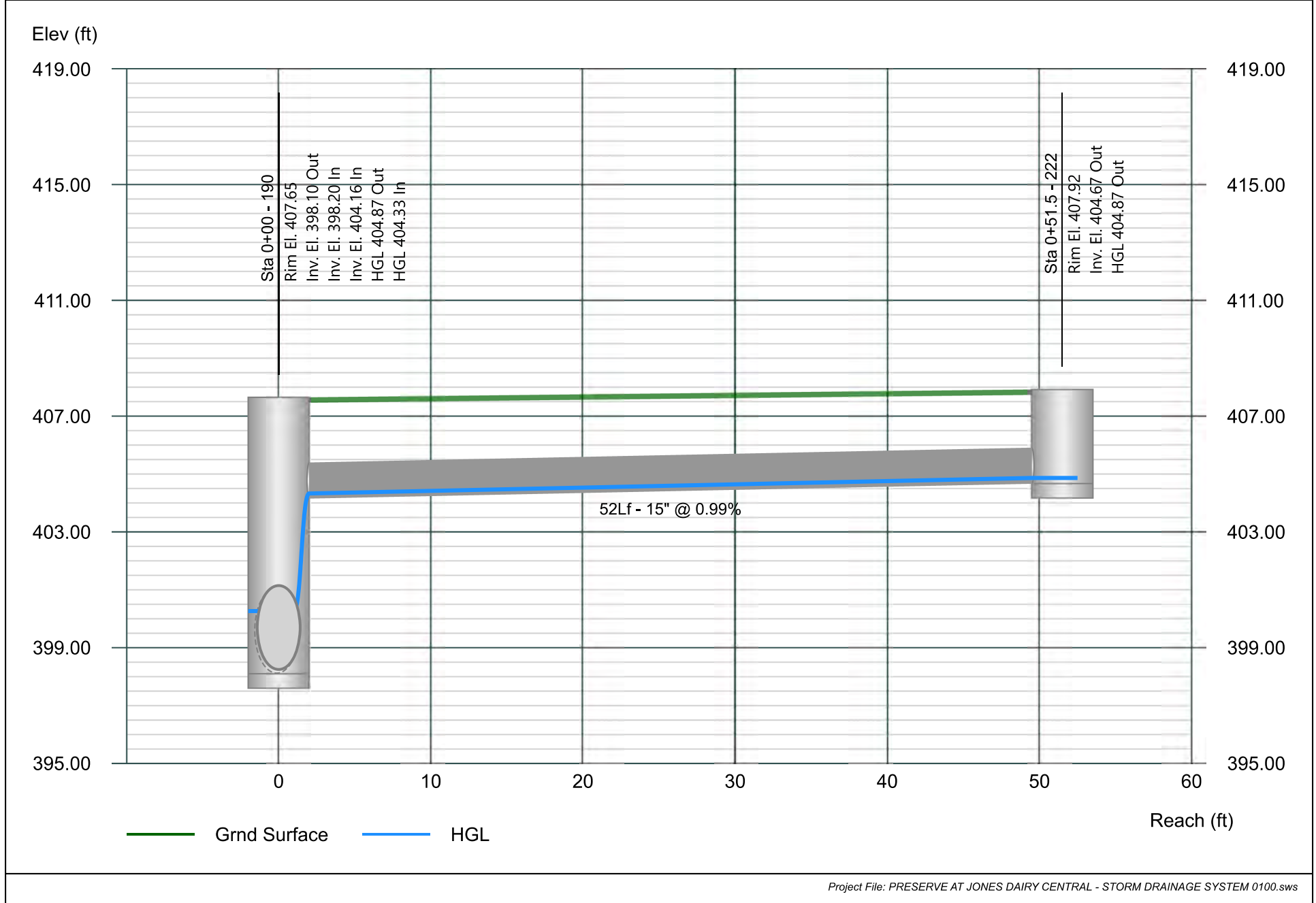
Line 121 - 220 TO 209



Line 122 - 221 TO 208



Line 123 - 222 TO 190

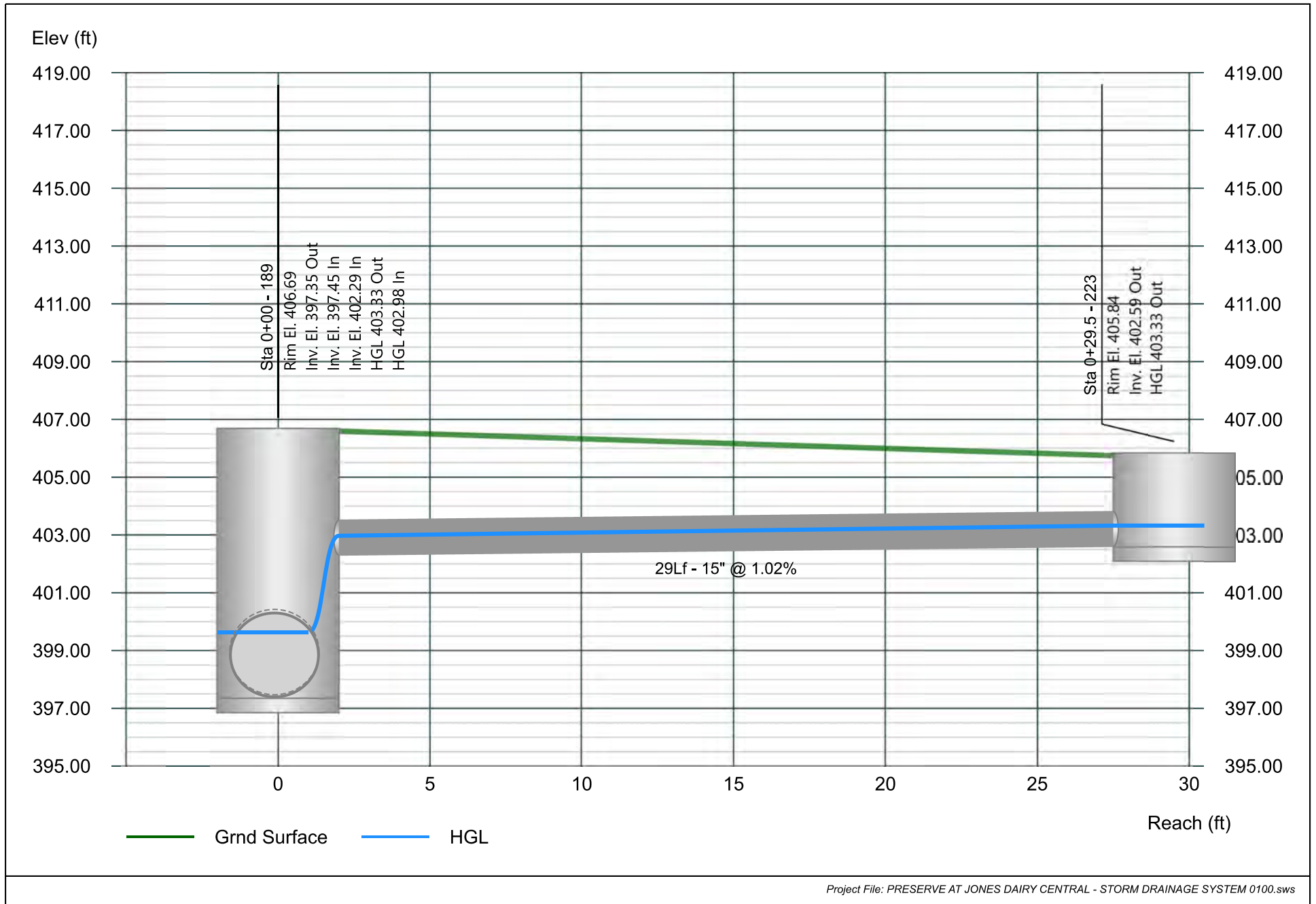


Line 124 - 223 TO 189

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

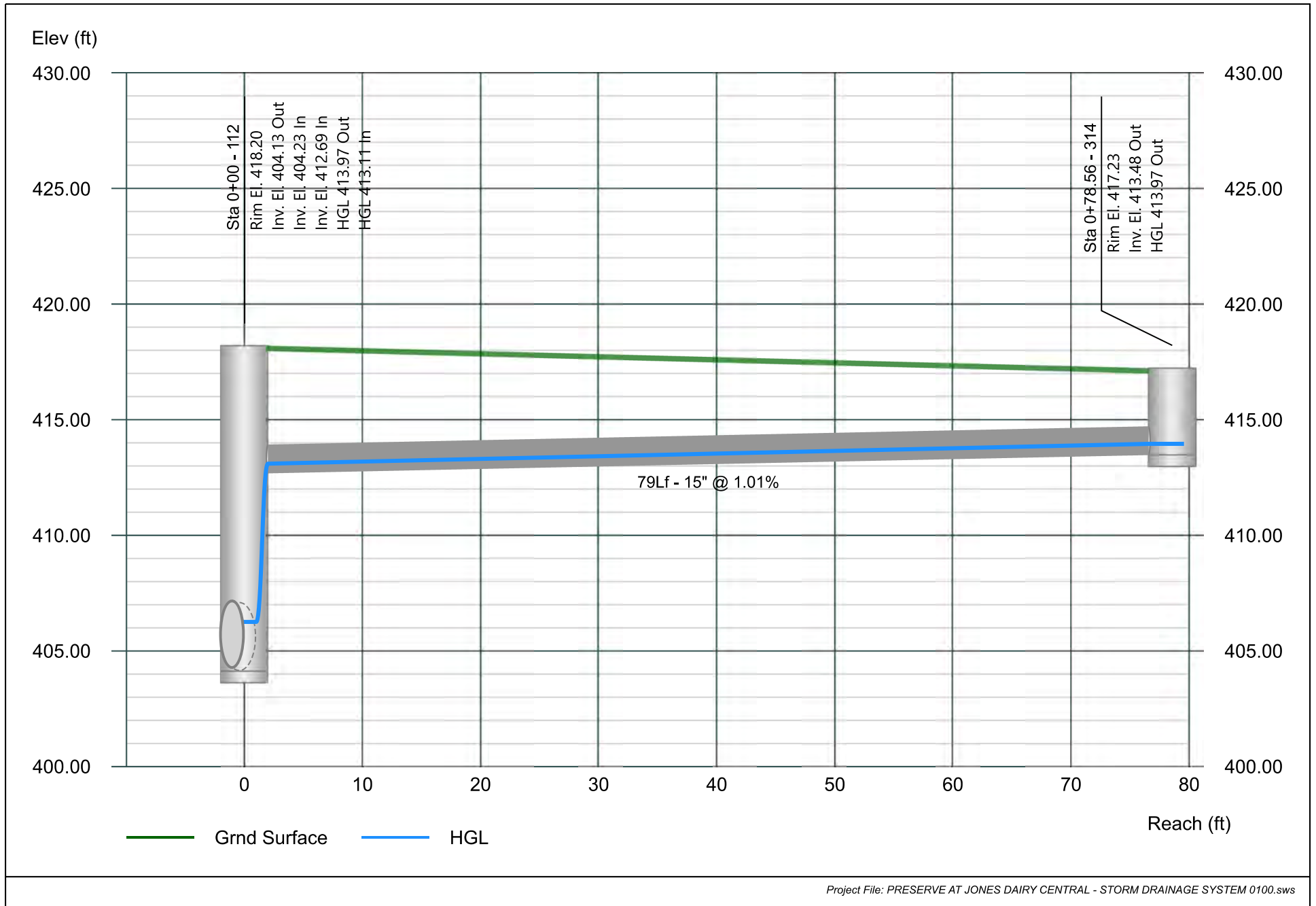


Line 125 - 314 TO 112

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

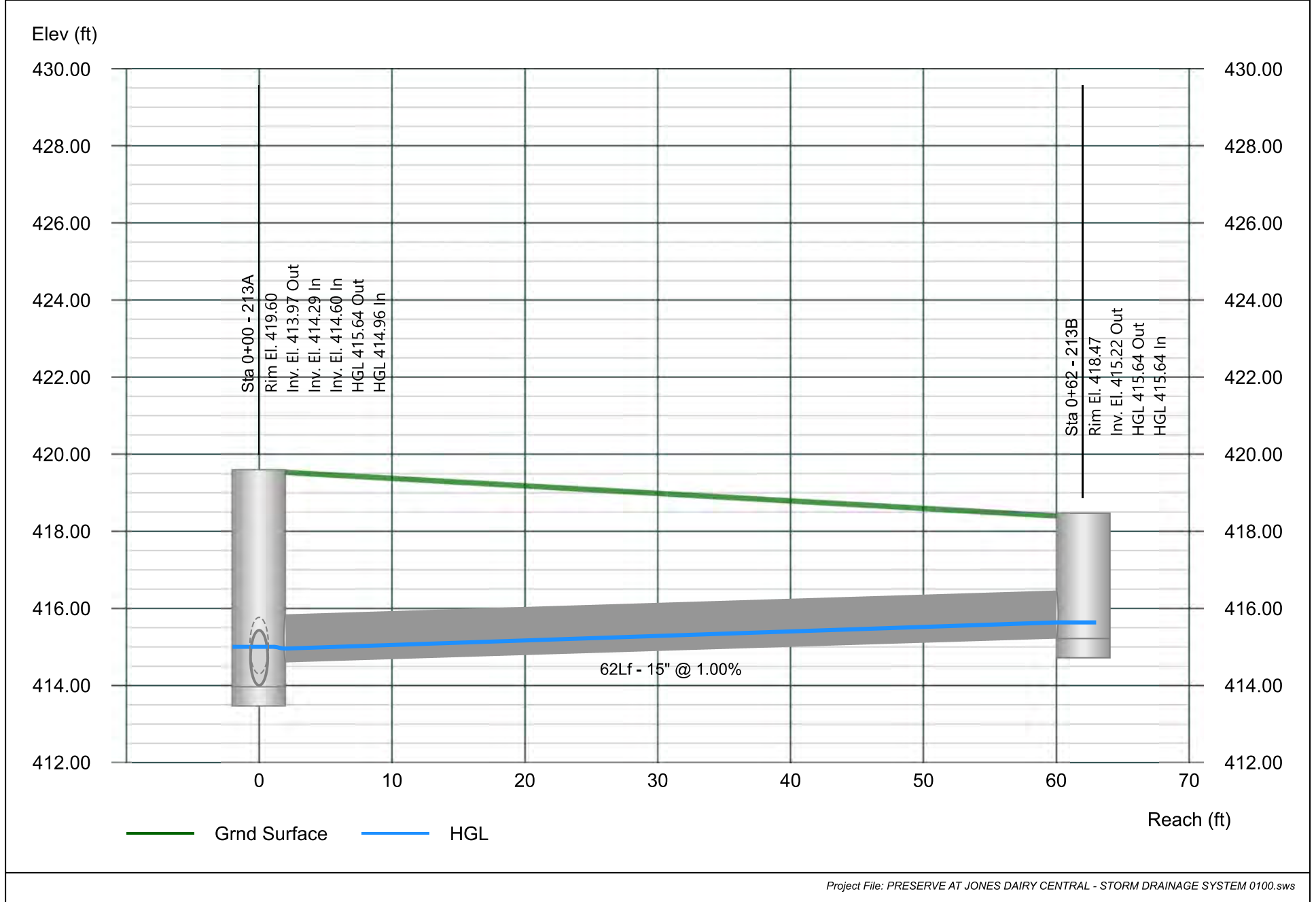


Line 126 - 213B TO 213A

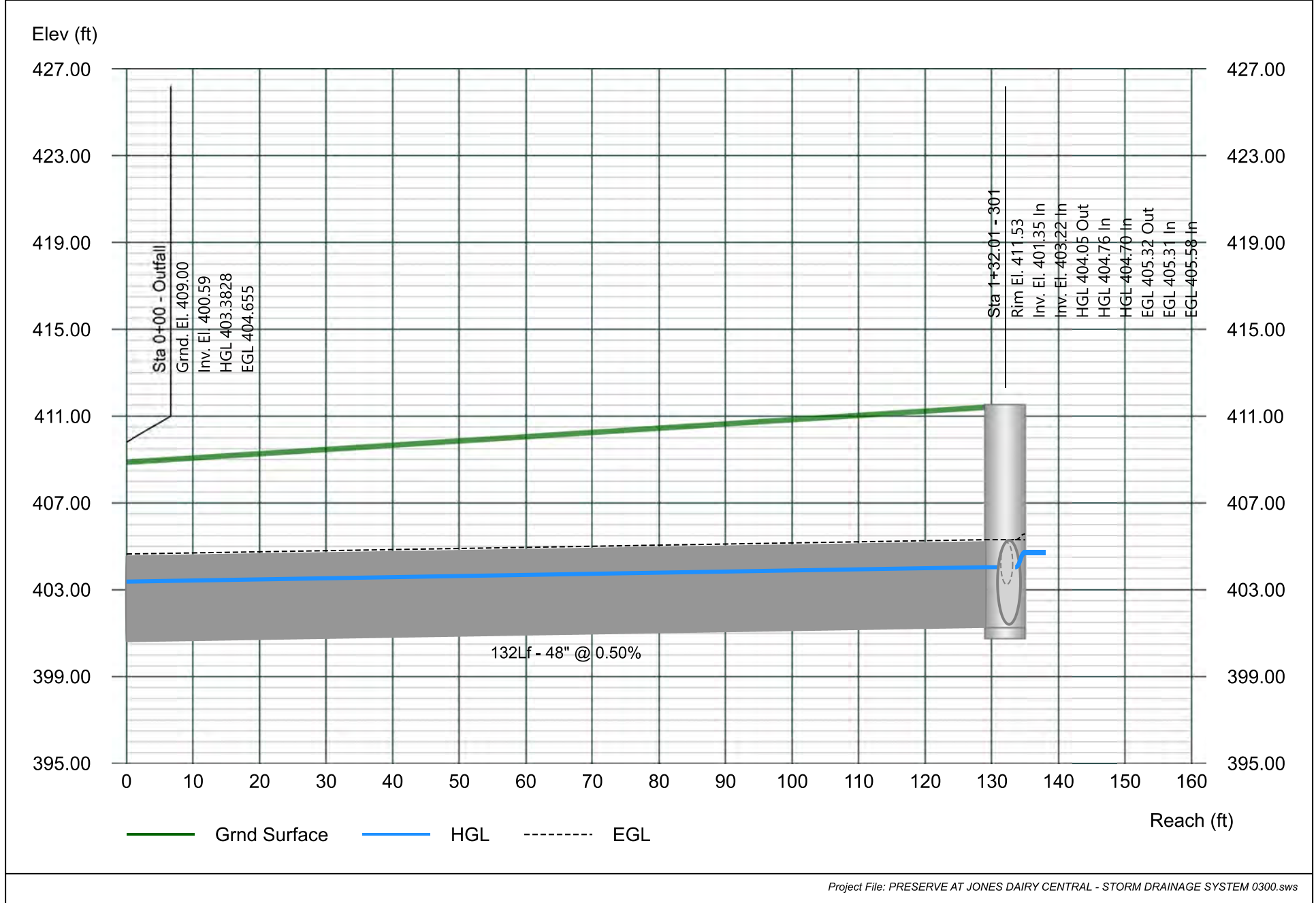
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

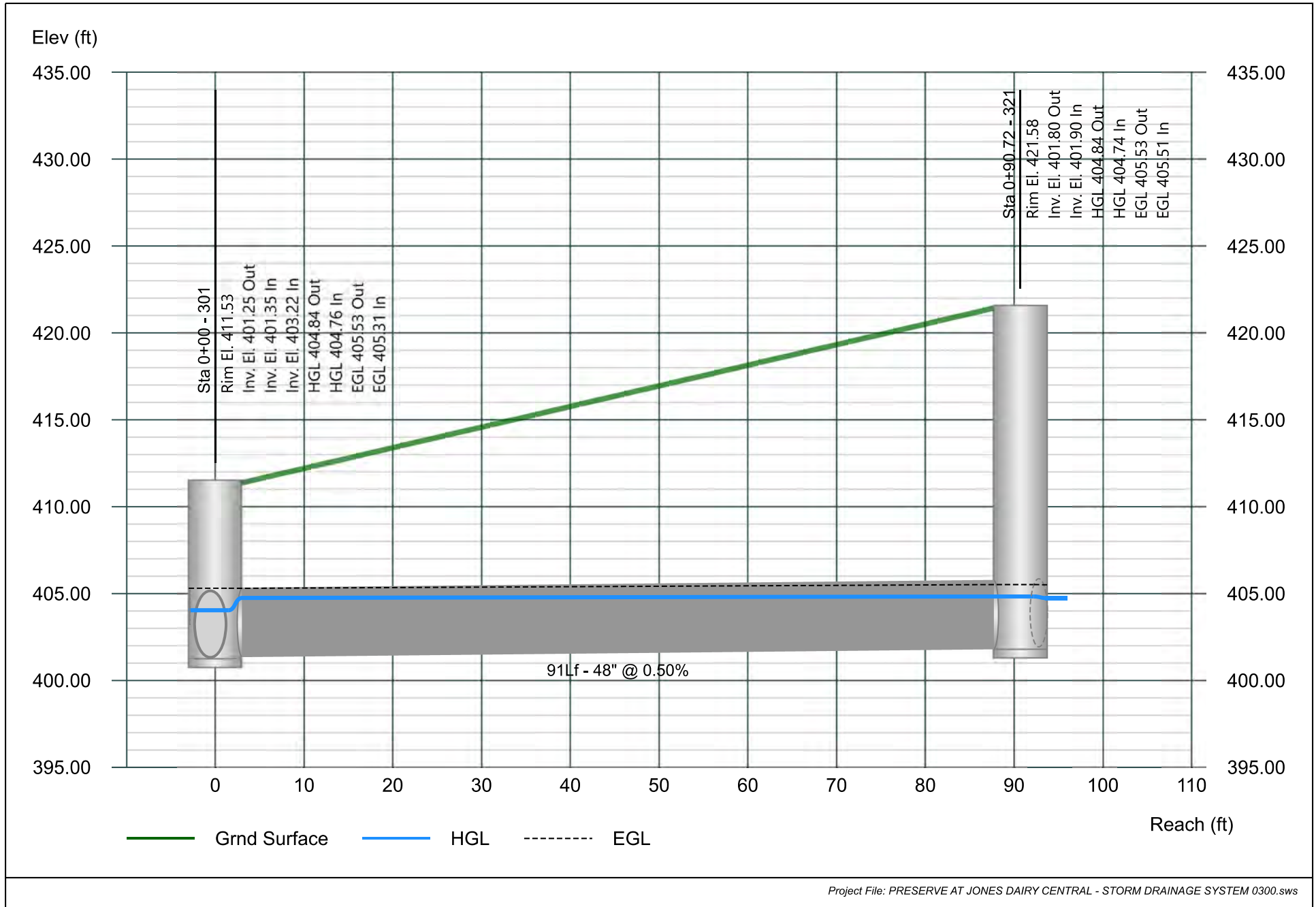
01-19-2024



Line 1 - 301 TO 300



Line 2 - 321 TO 302

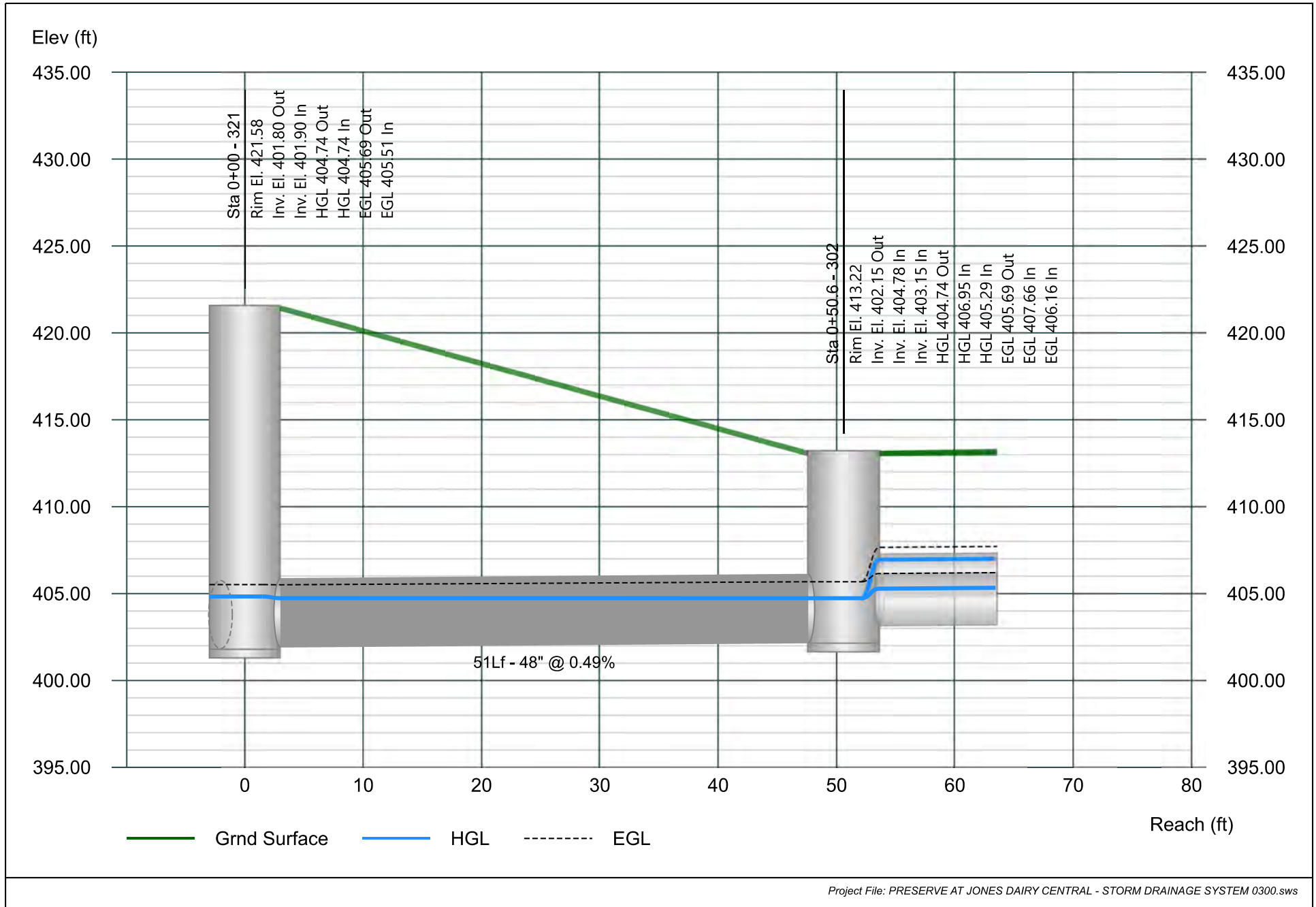


Line 3 - 302 TO 301

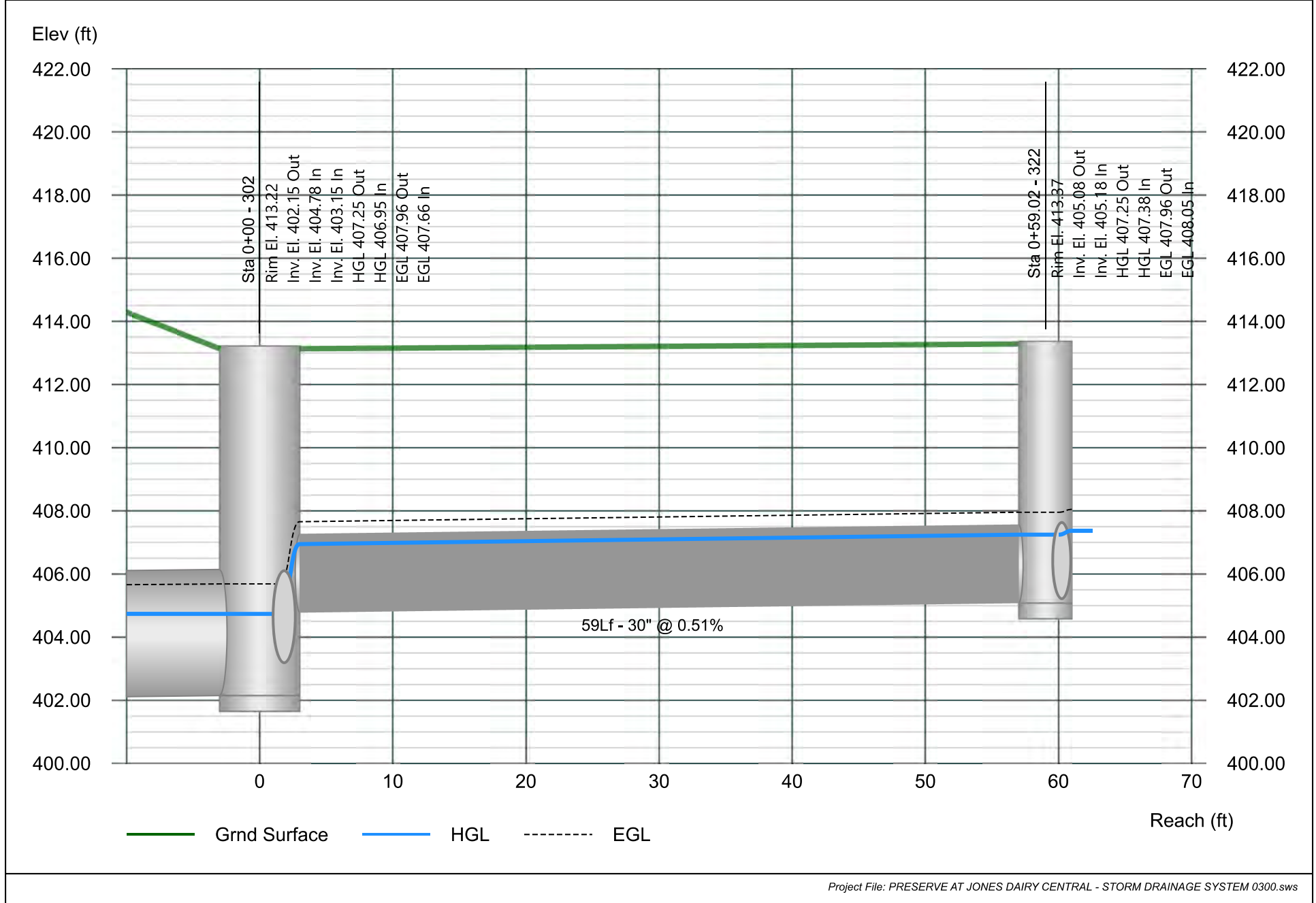
Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

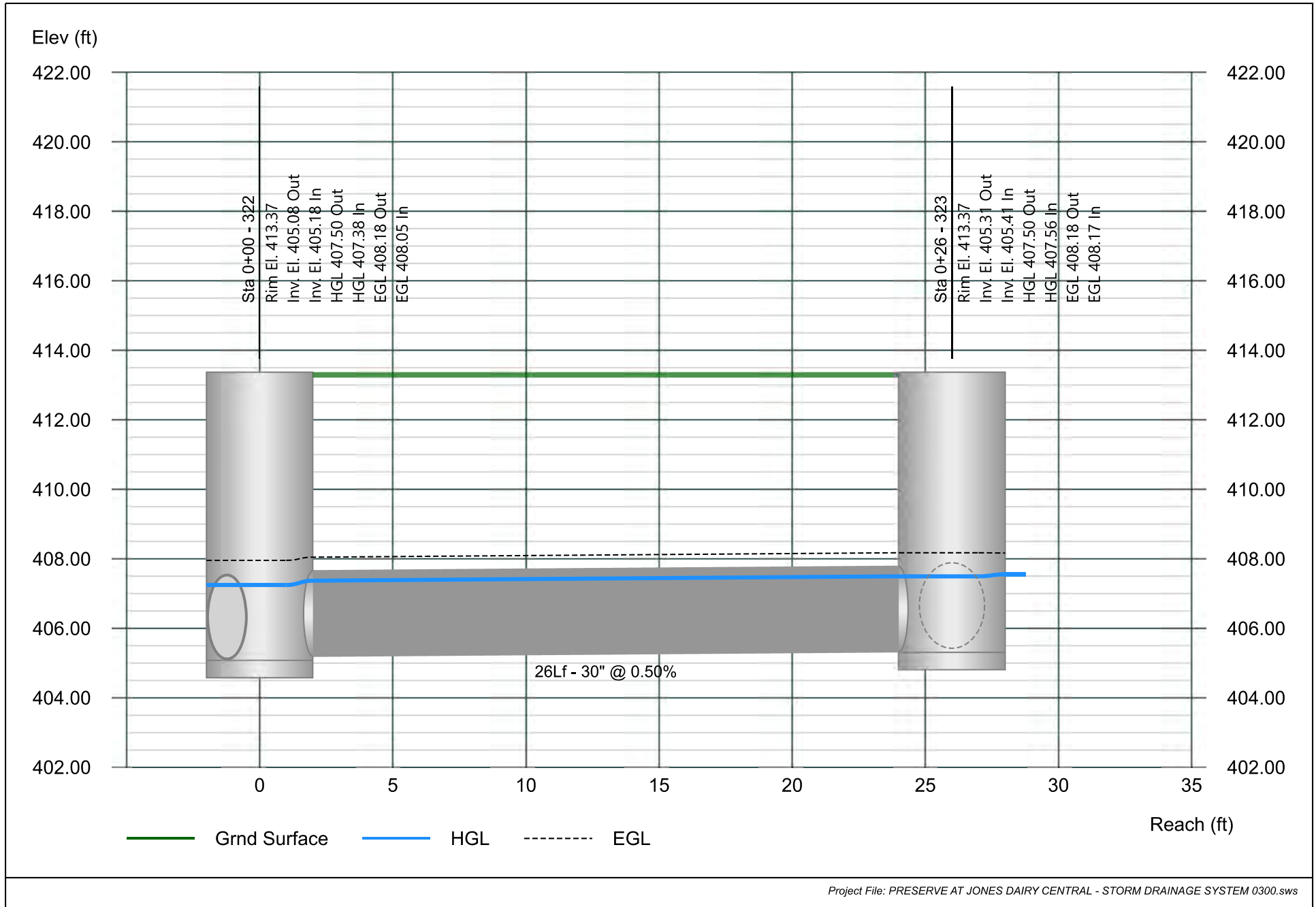
03-01-2024



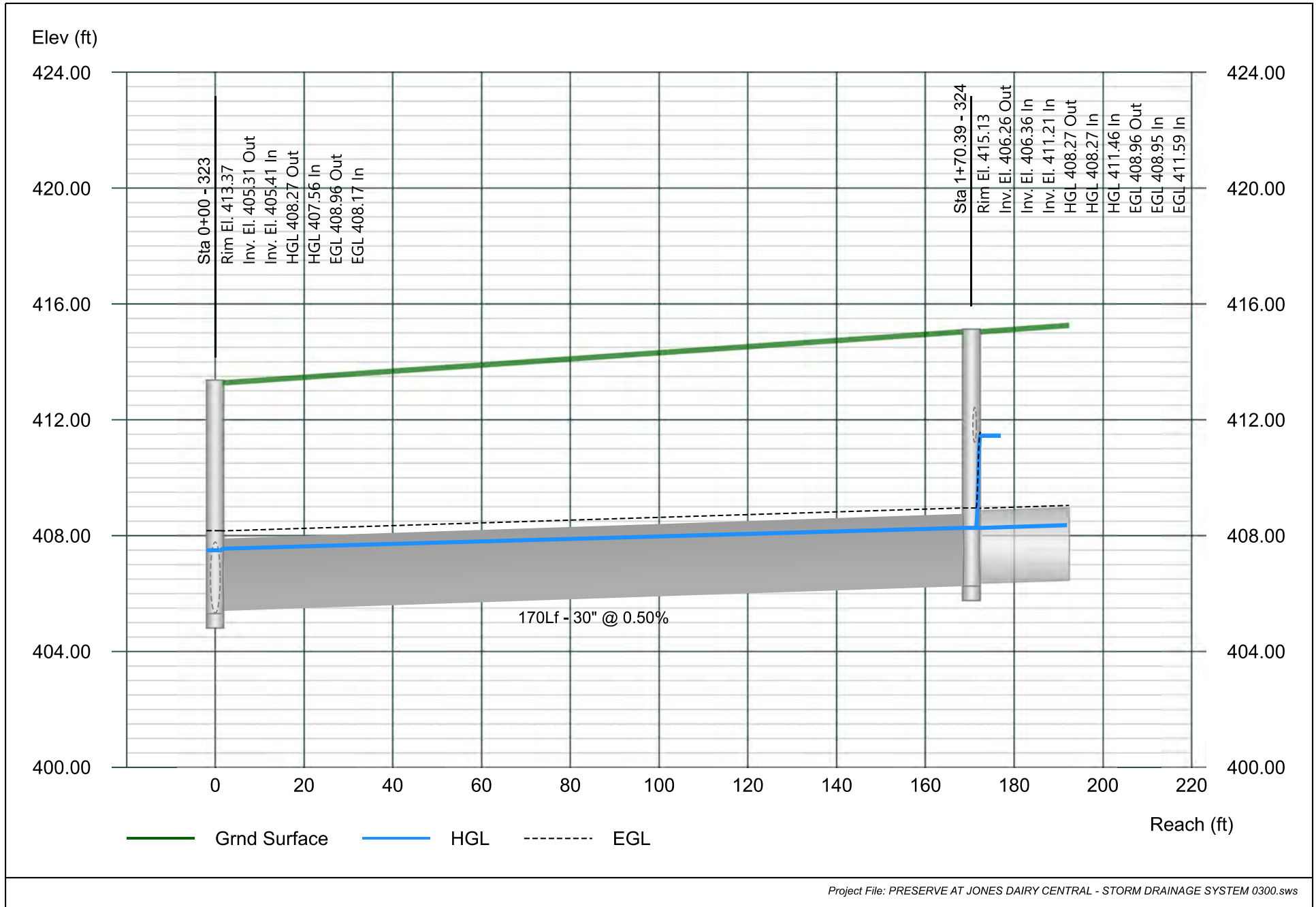
Line 4 - 322 TO 302



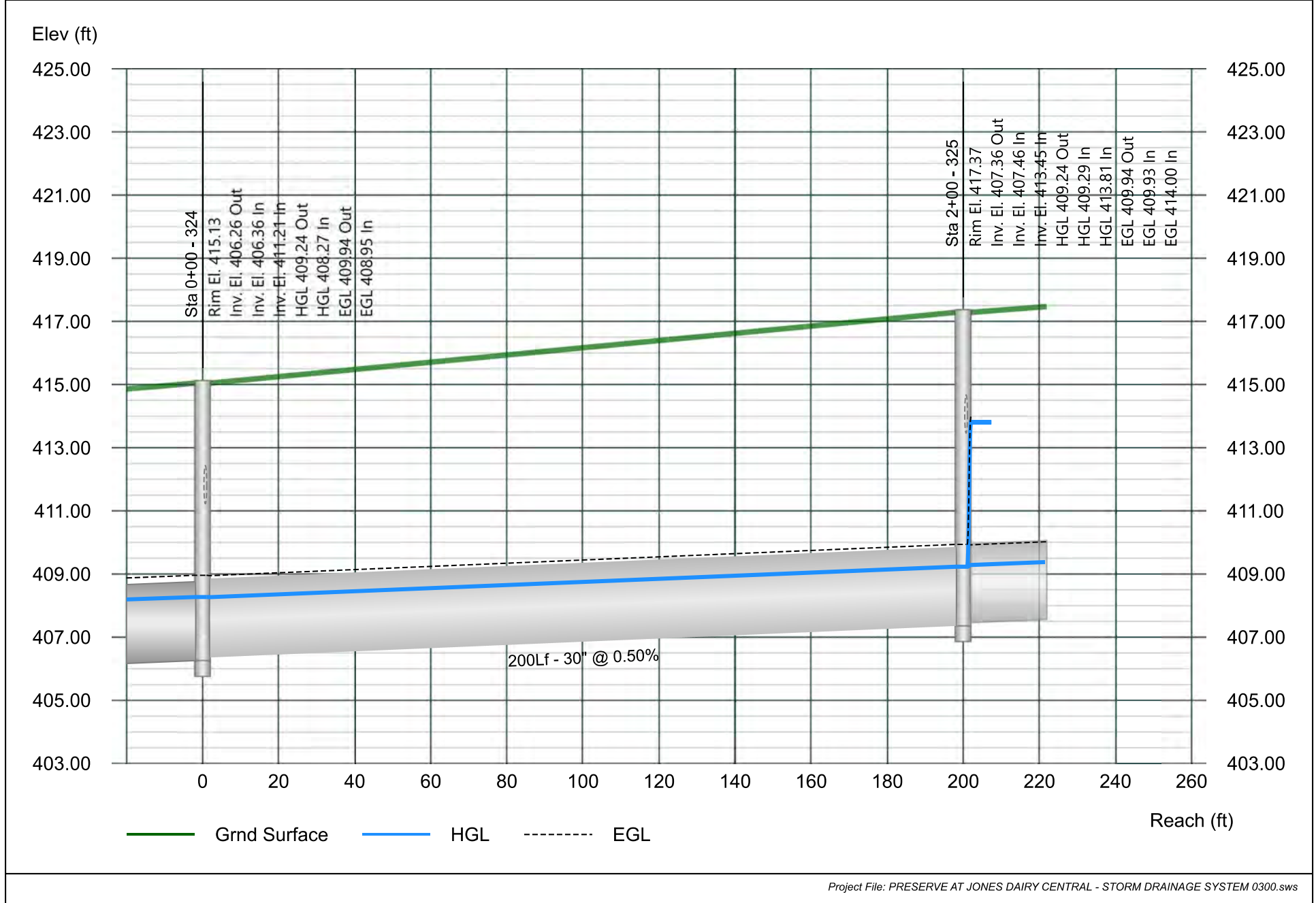
Line 5 - 323 TO 322



Line 6 - 324 TO 323



Line 7 - 325 TO 324

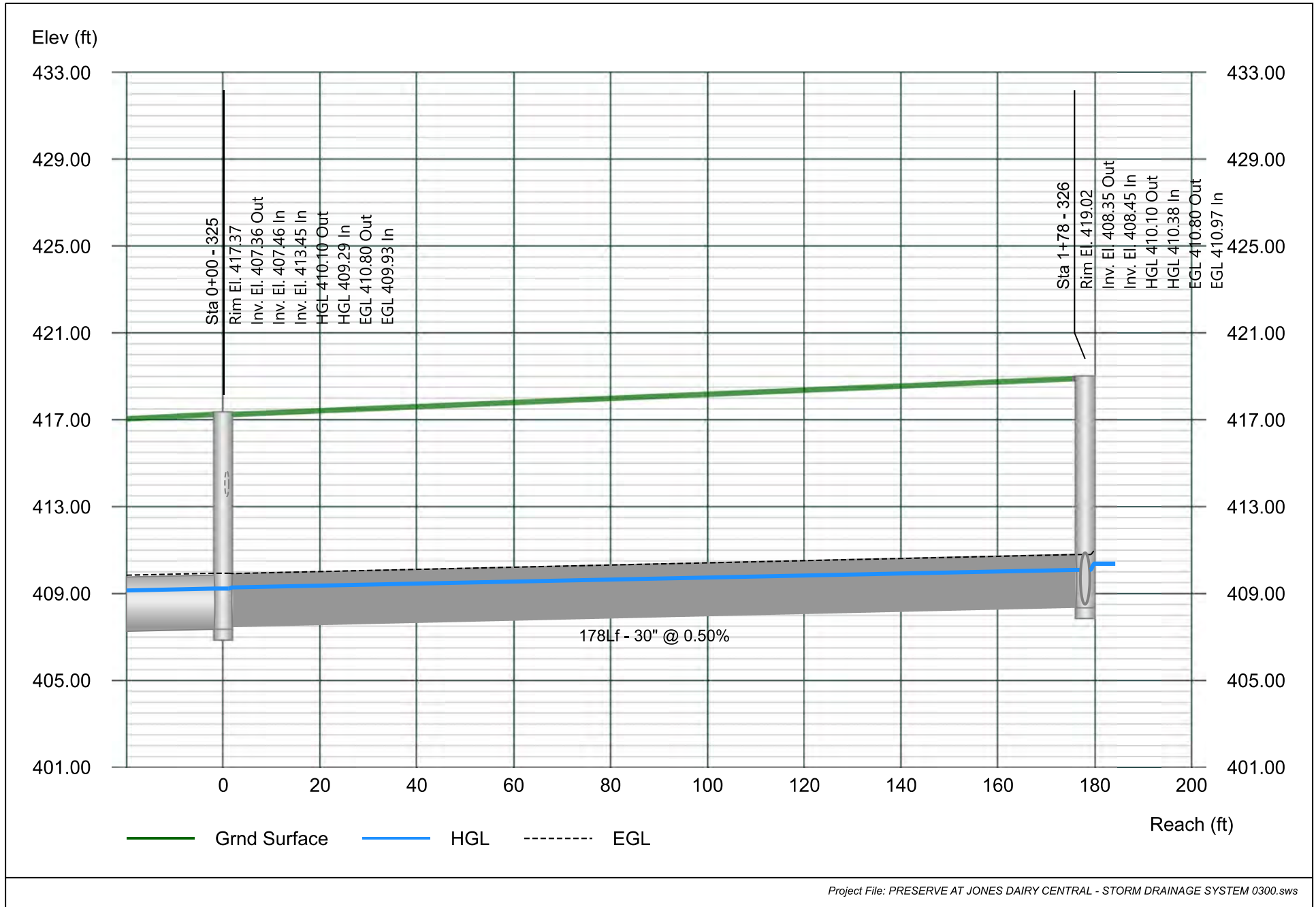


Line 8 - 326 TO 325

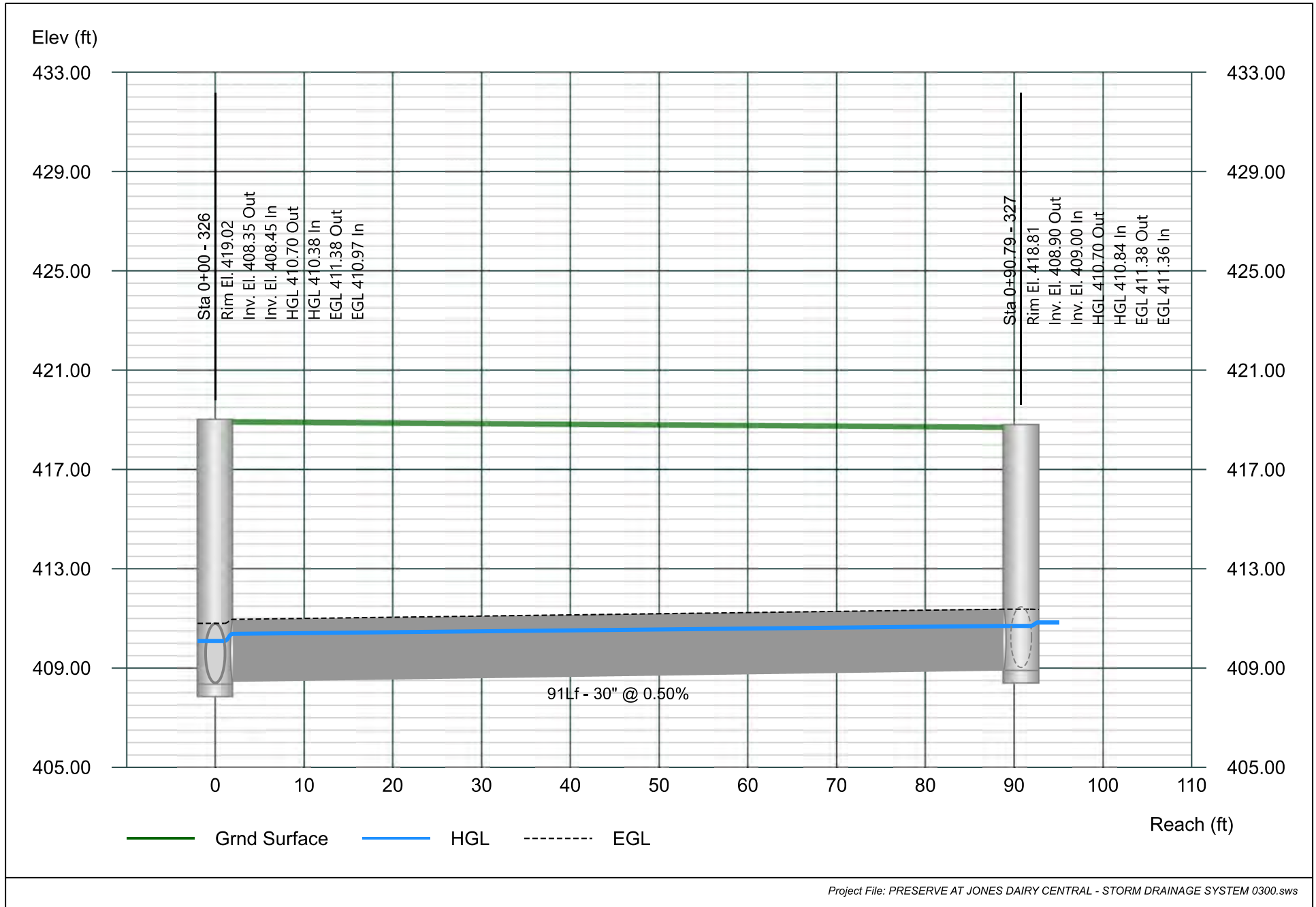
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 9 - 327 TO 326

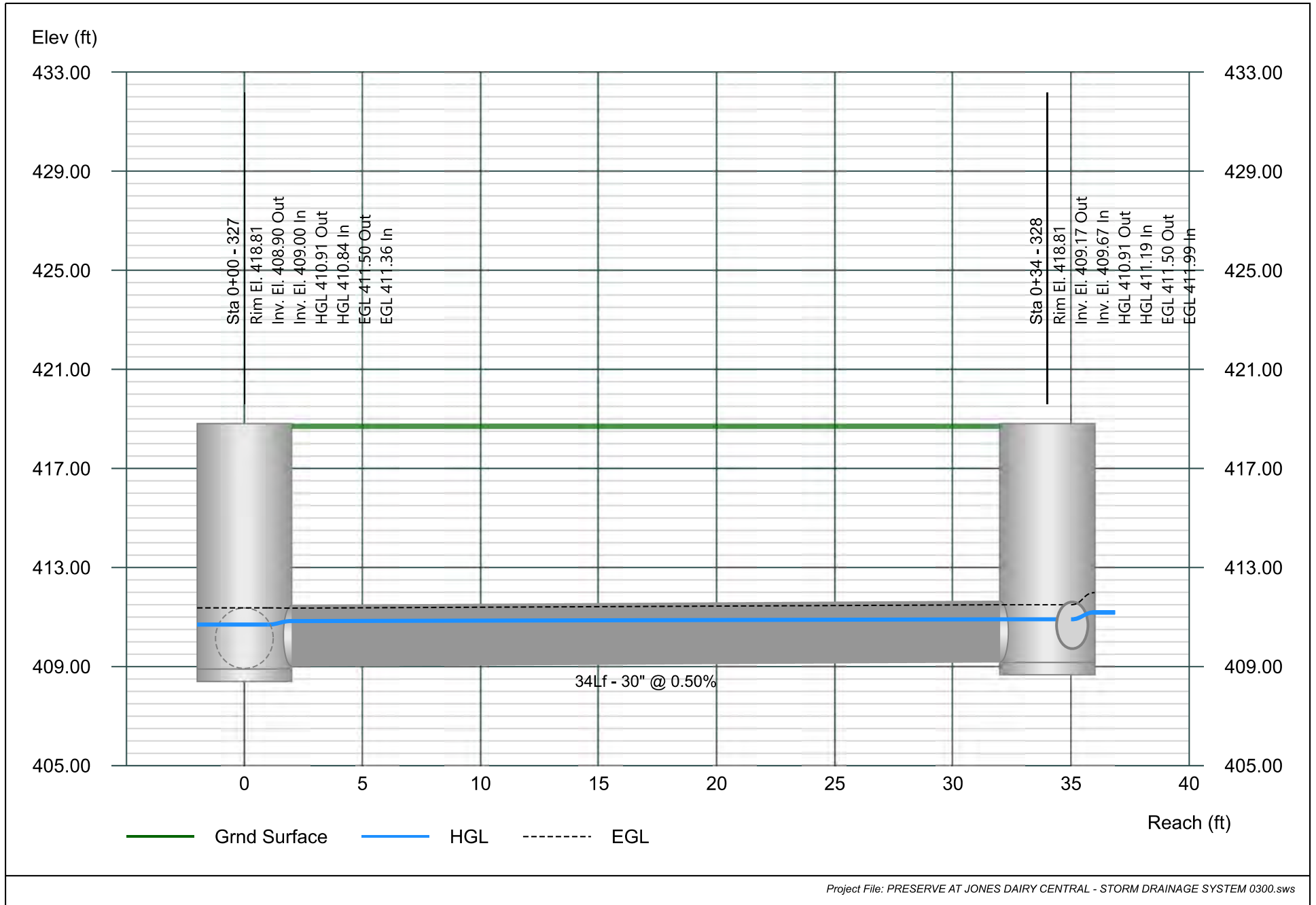


Line 10 - 328 TO 327

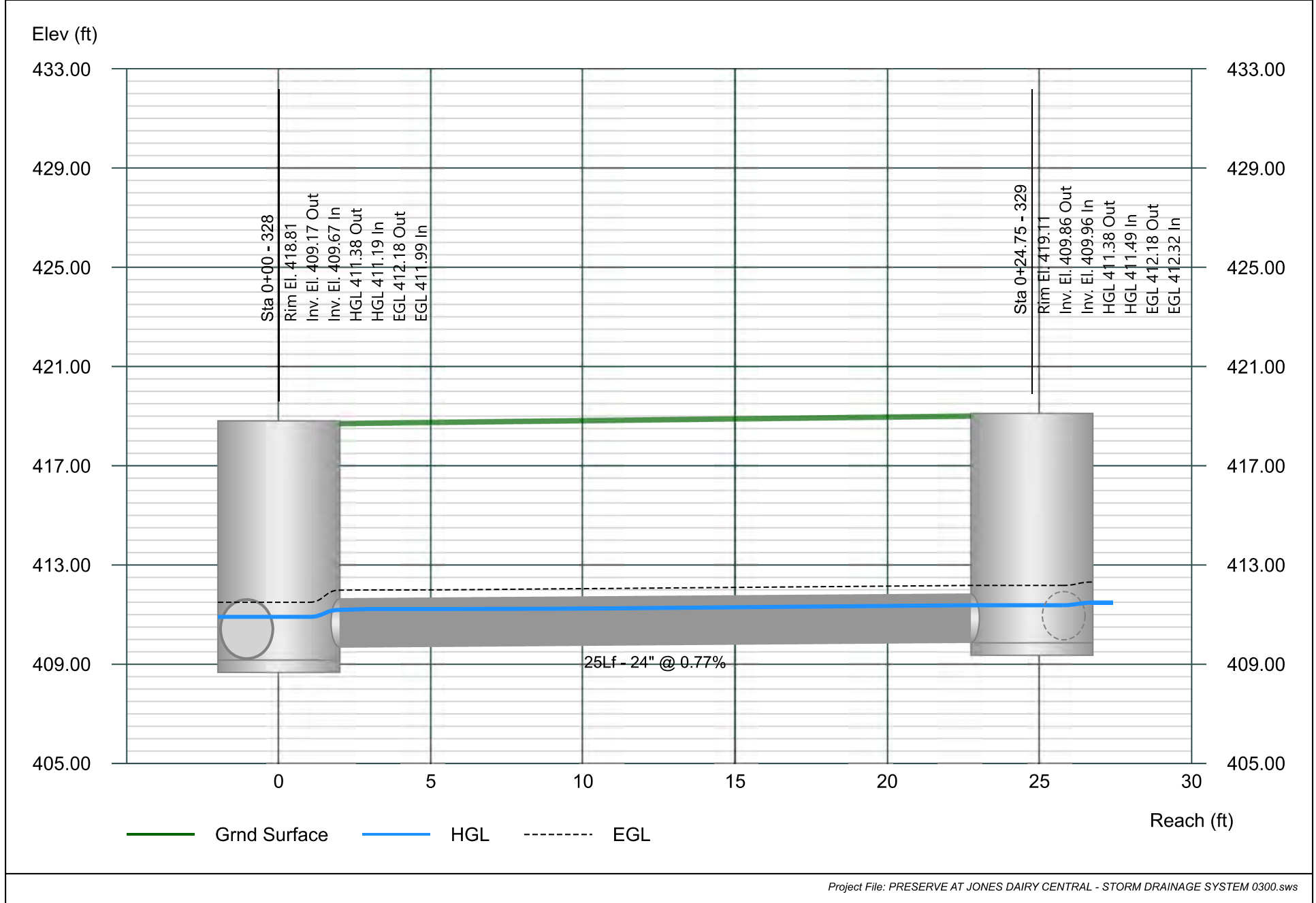
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

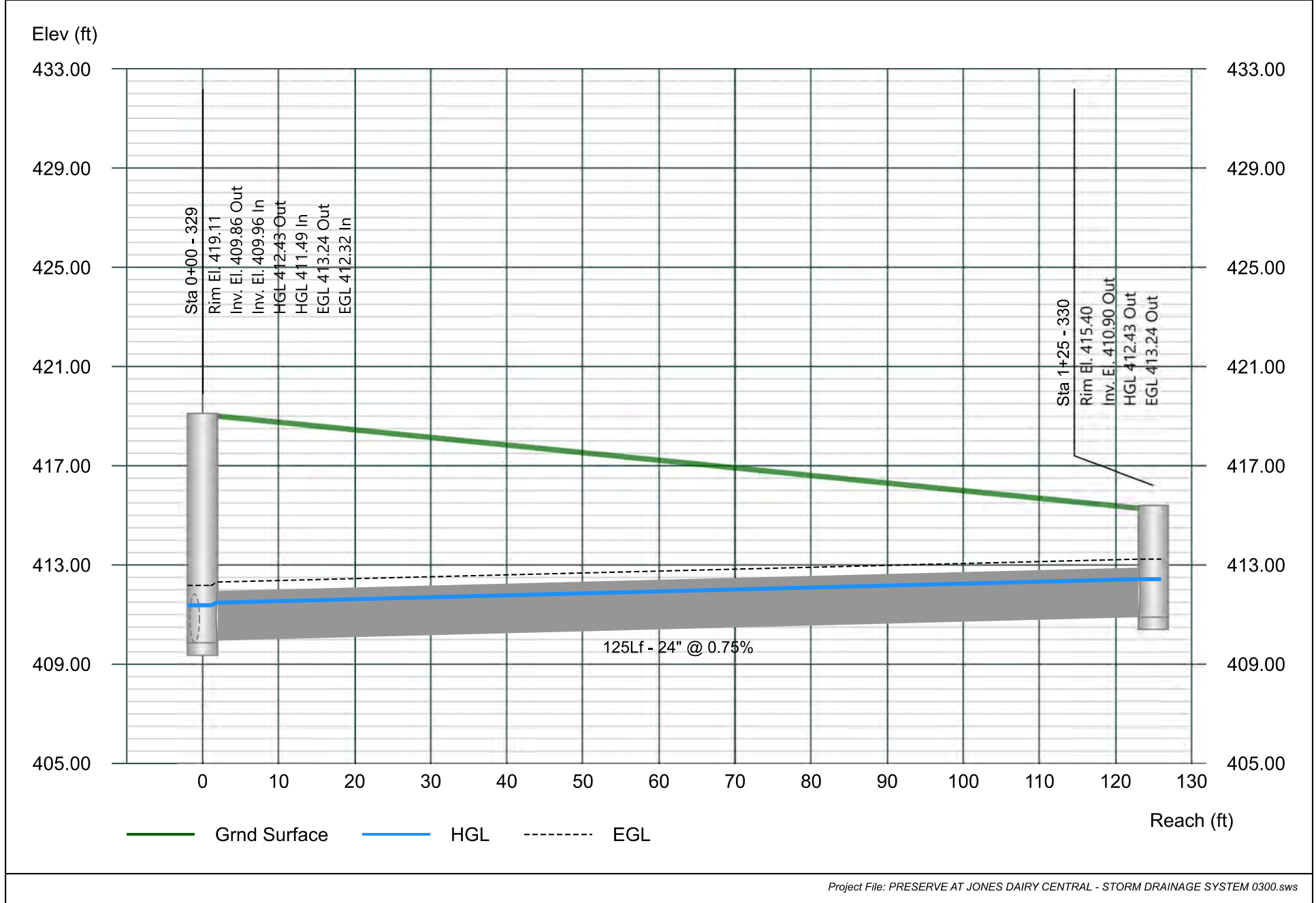
03-01-2024



Line 11 - 329 TO 328



Line 12 - 330 TO 329

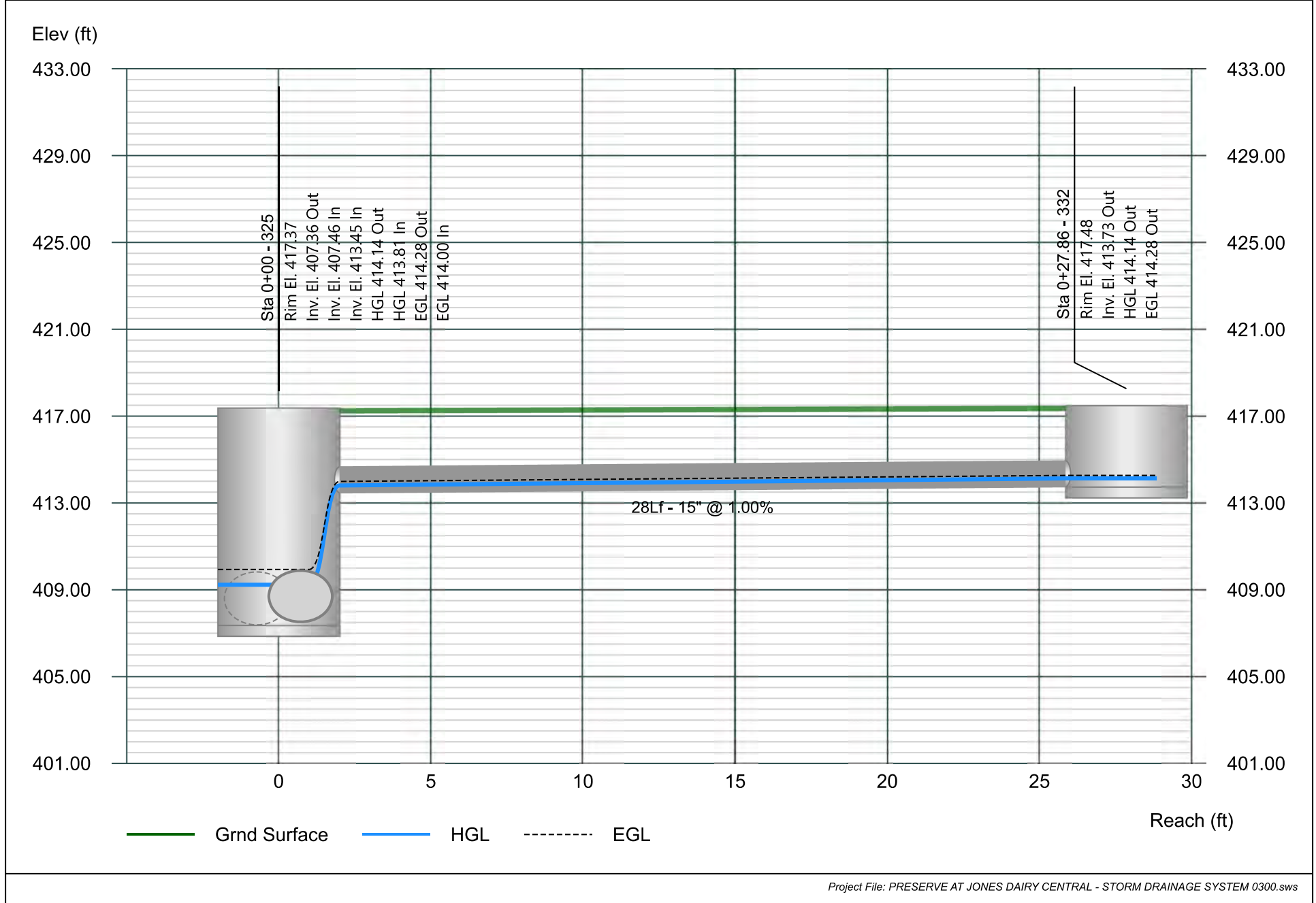


Line 13 - 332 TO 325

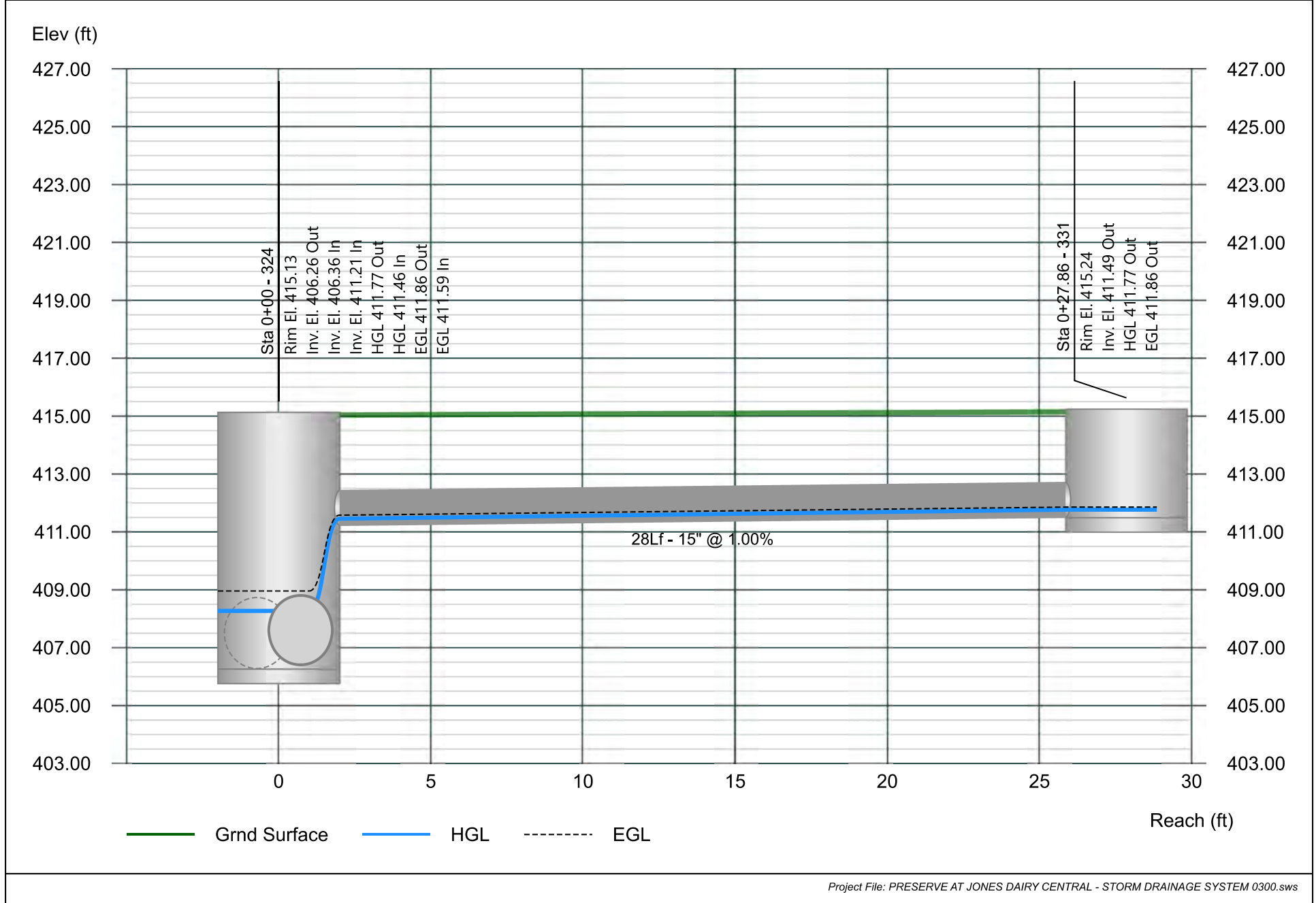
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

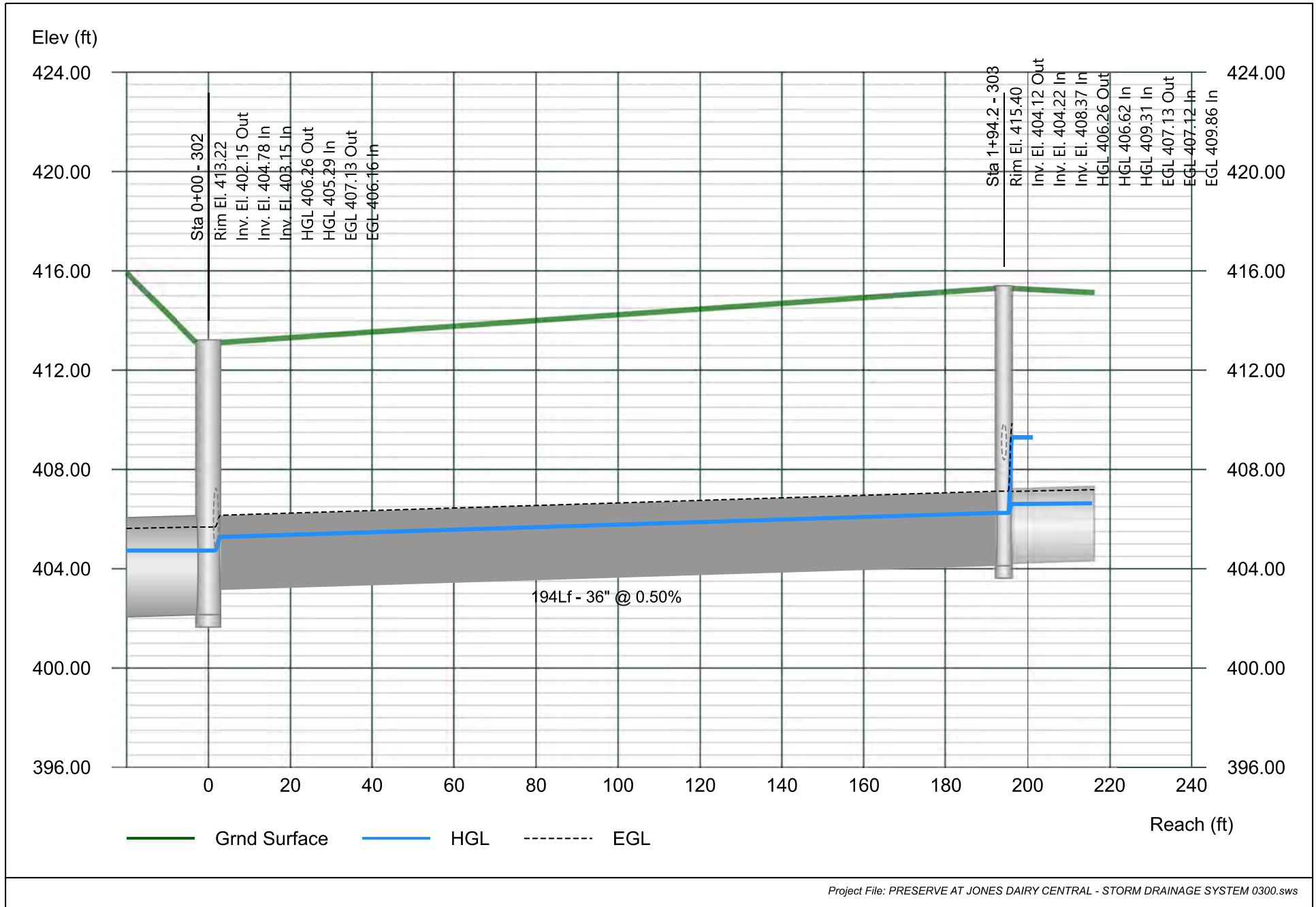
03-01-2024



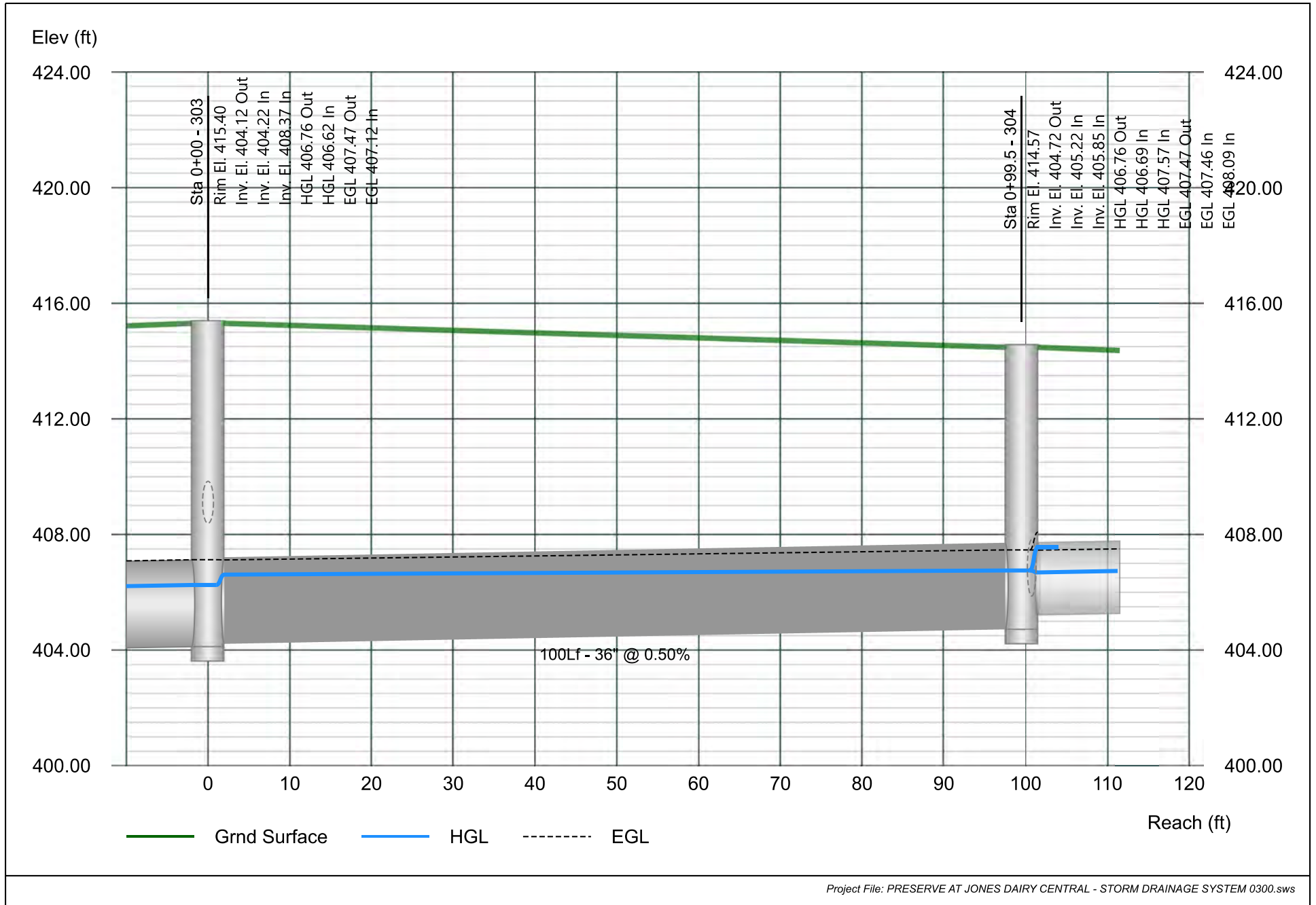
Line 14 - 331 TO 324



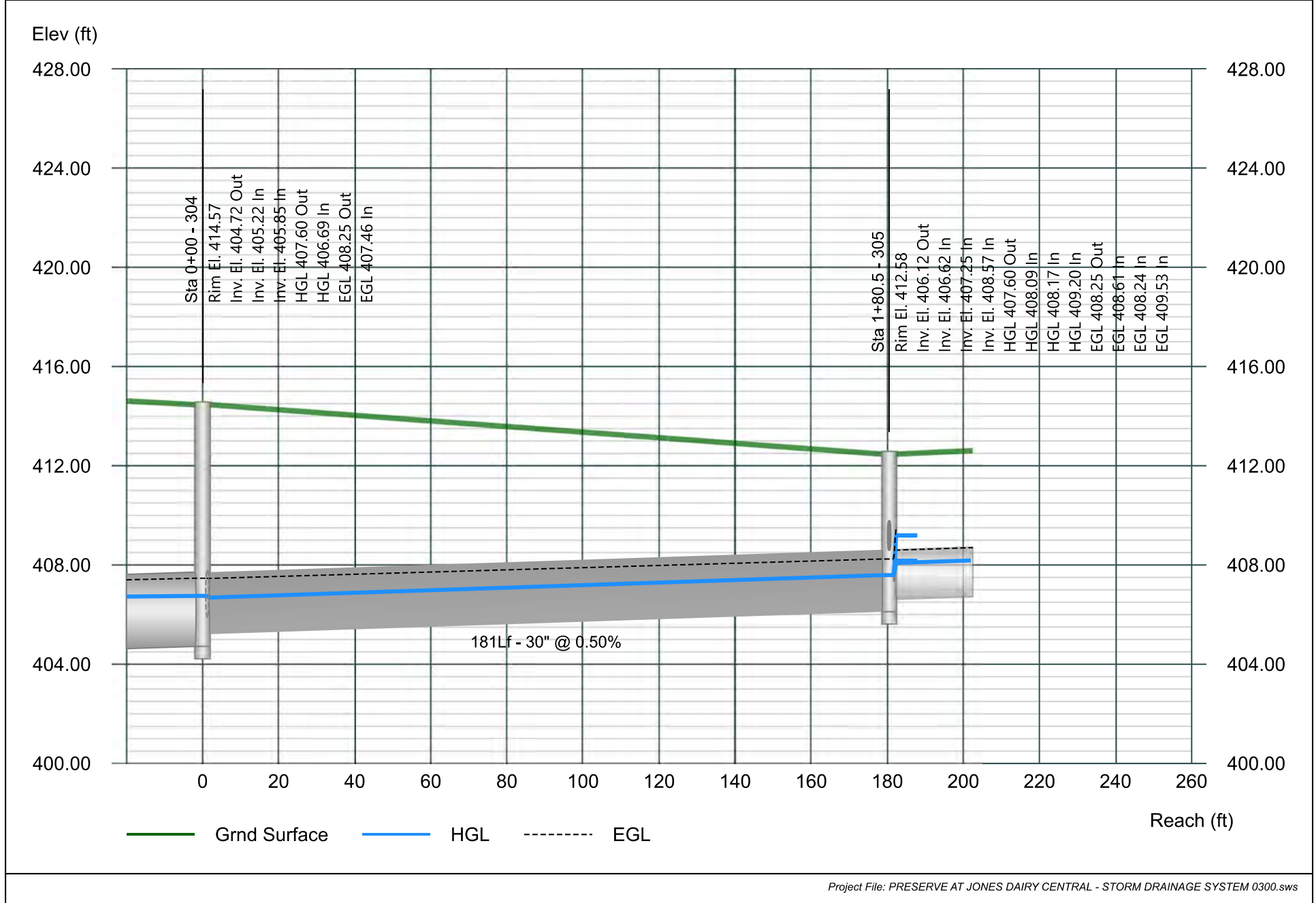
Line 15 - 303 TO 302



Line 16 - 304 TO 303



Line 17 - 305 TO 304

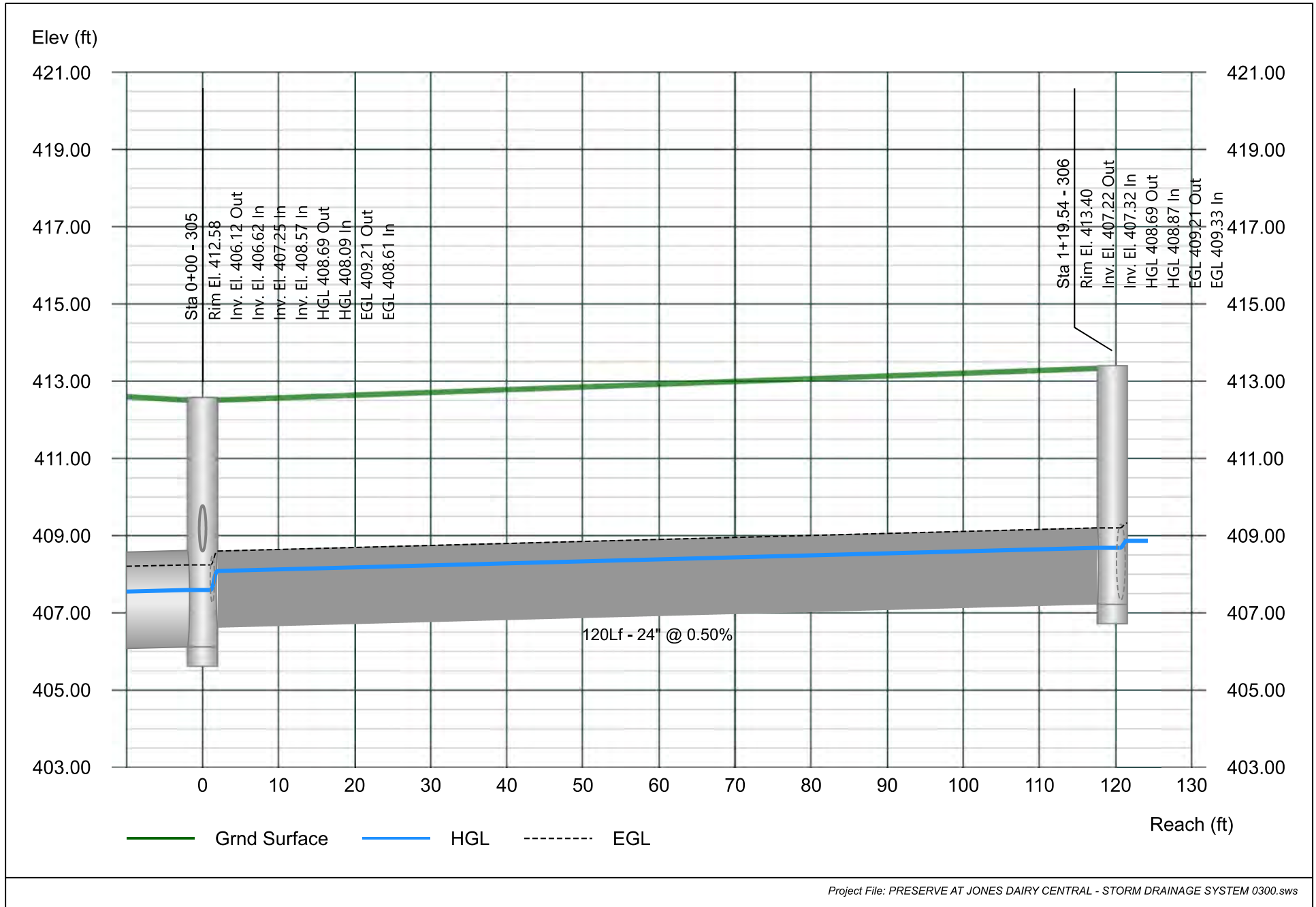


Line 18 - 306 TO 305

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

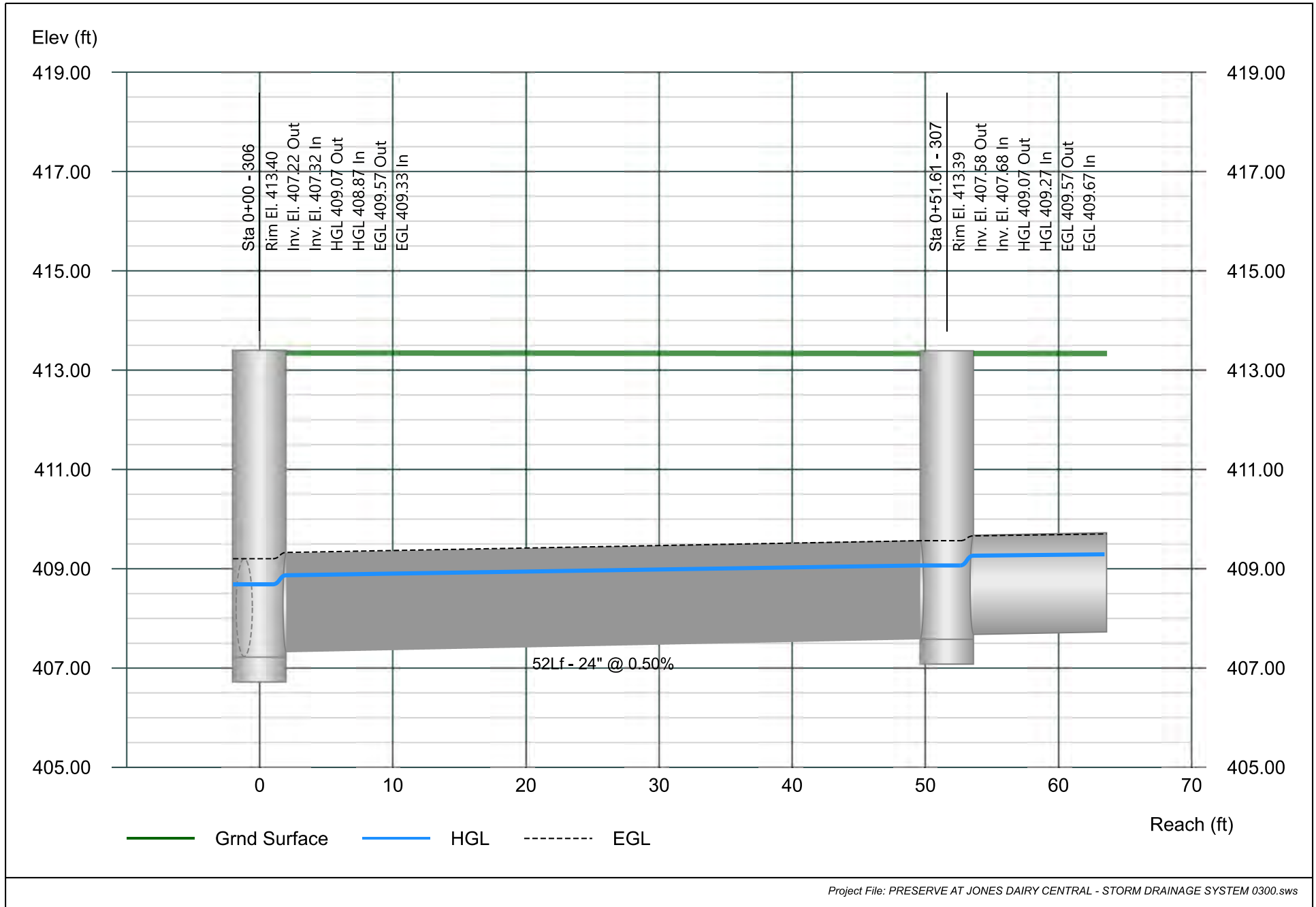


Line 19 - 307 TO 306

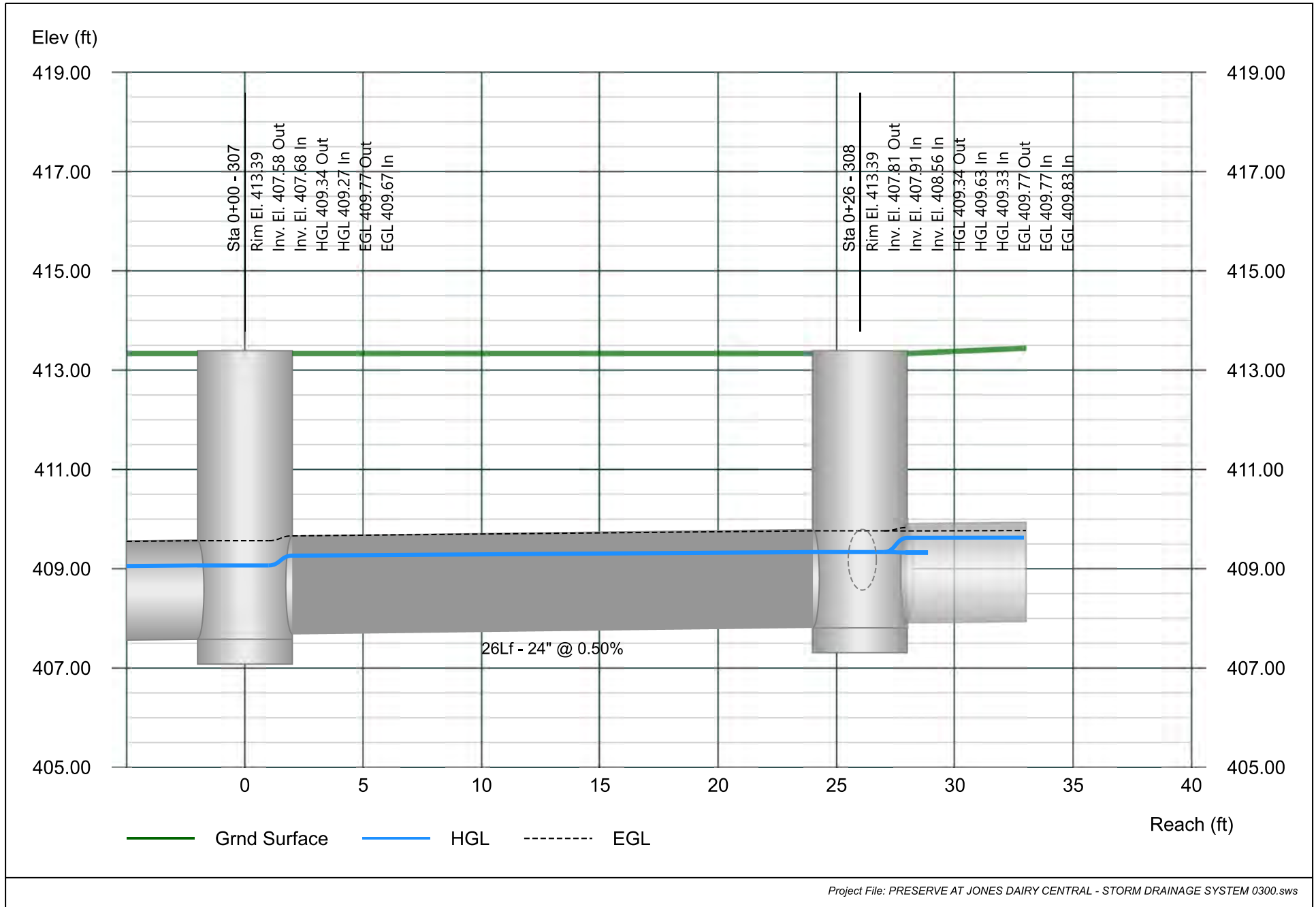
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 20 - 308 TO 307

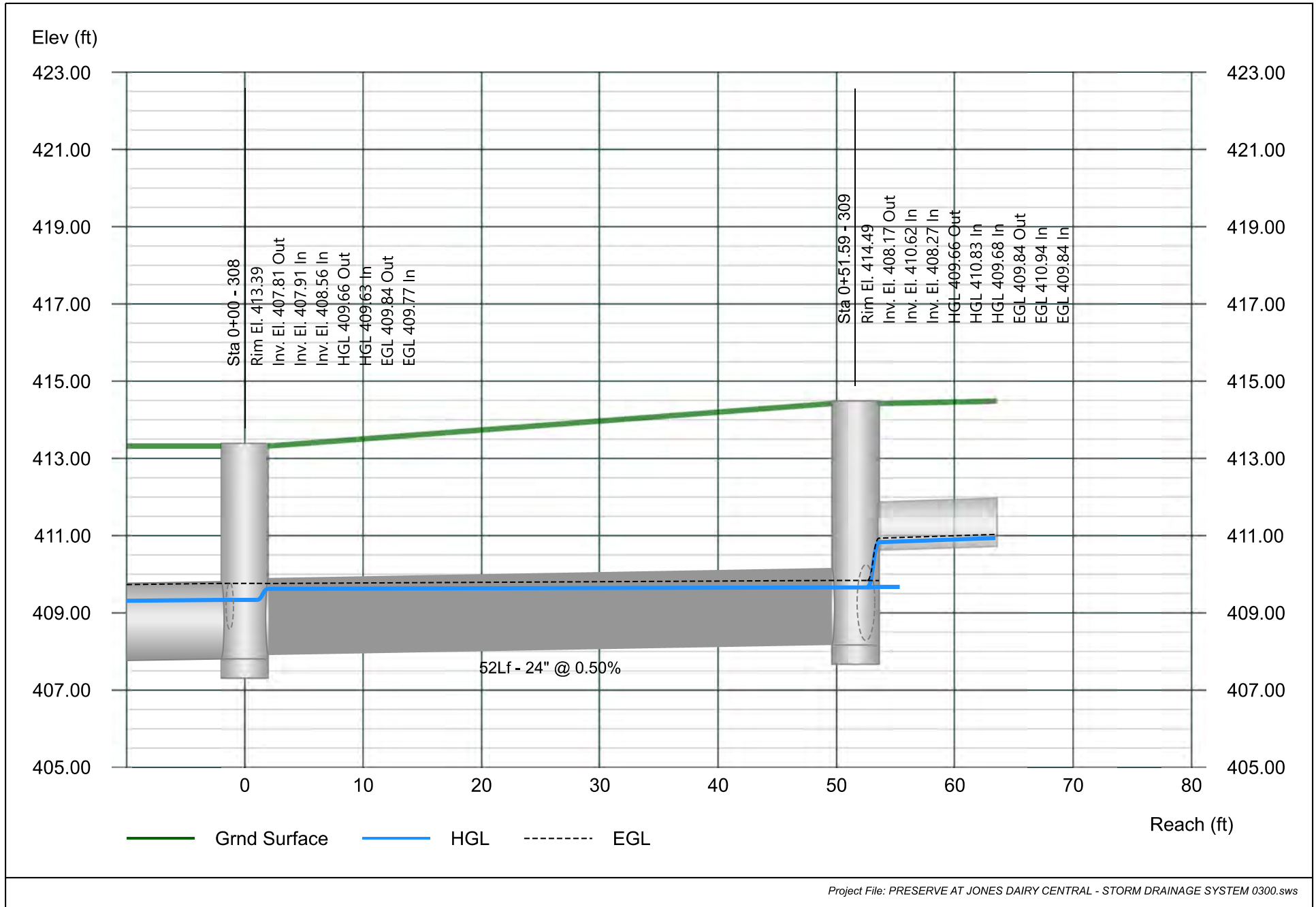


Line 21 - 309 TO 308

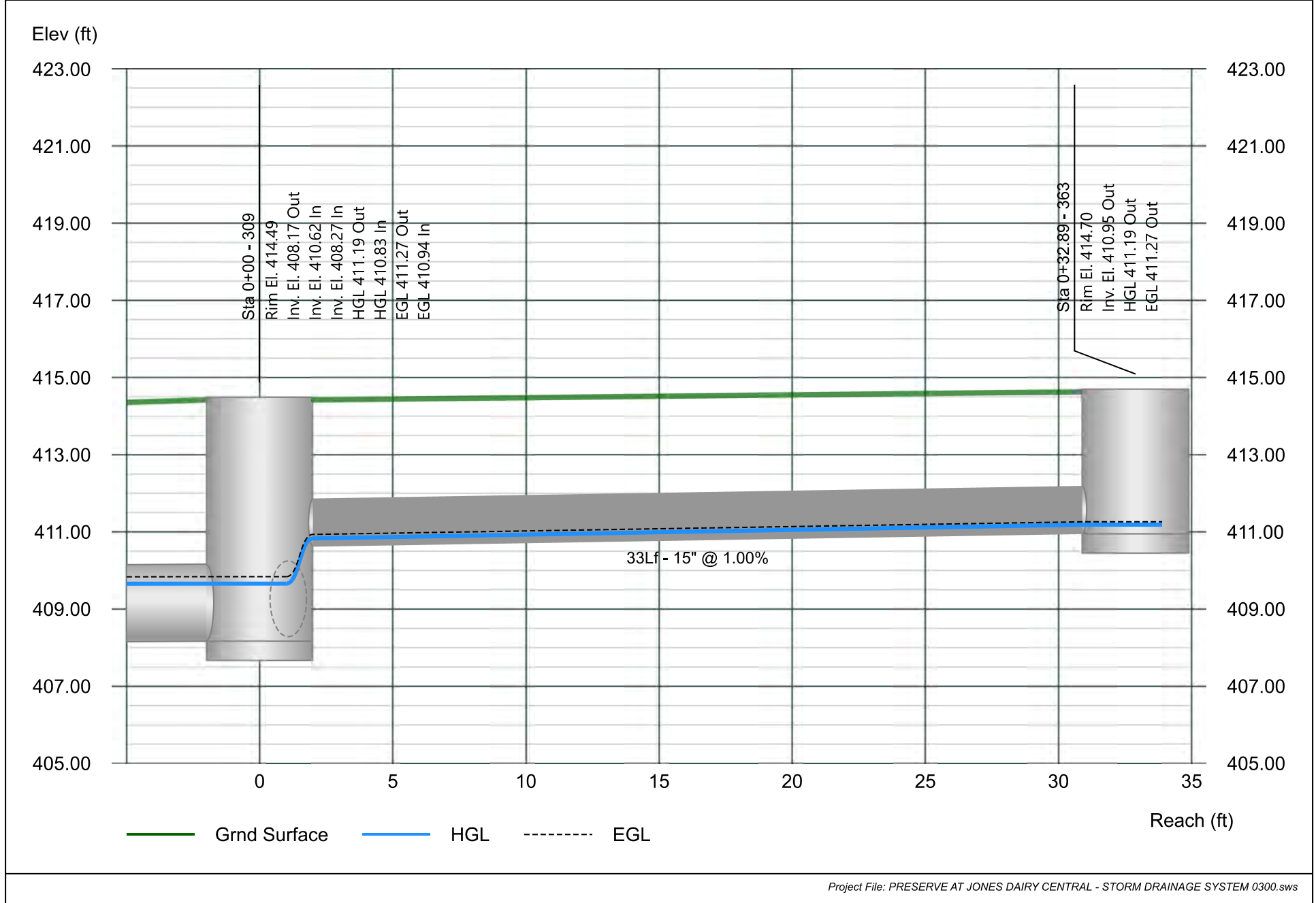
Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

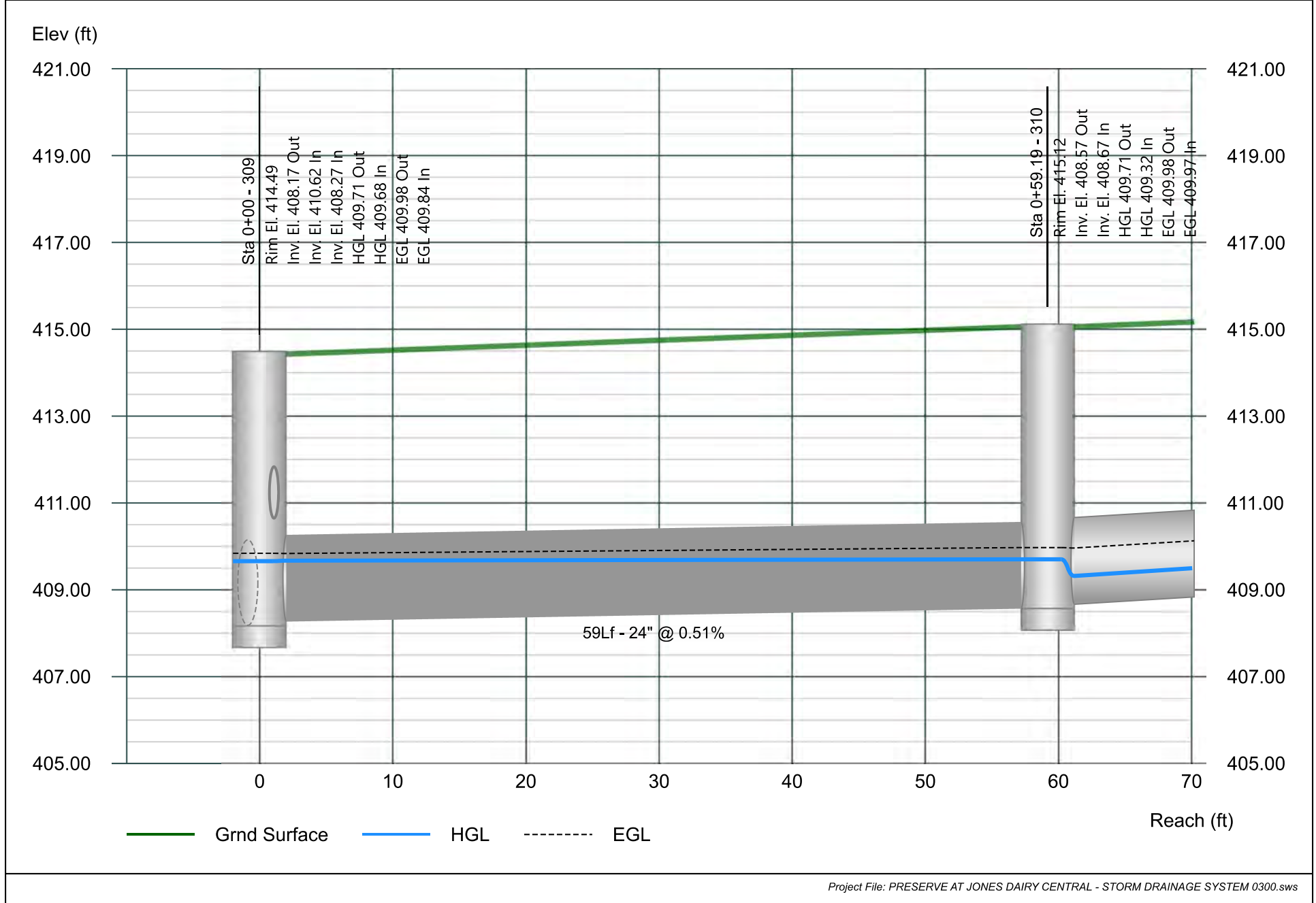
03-01-2024



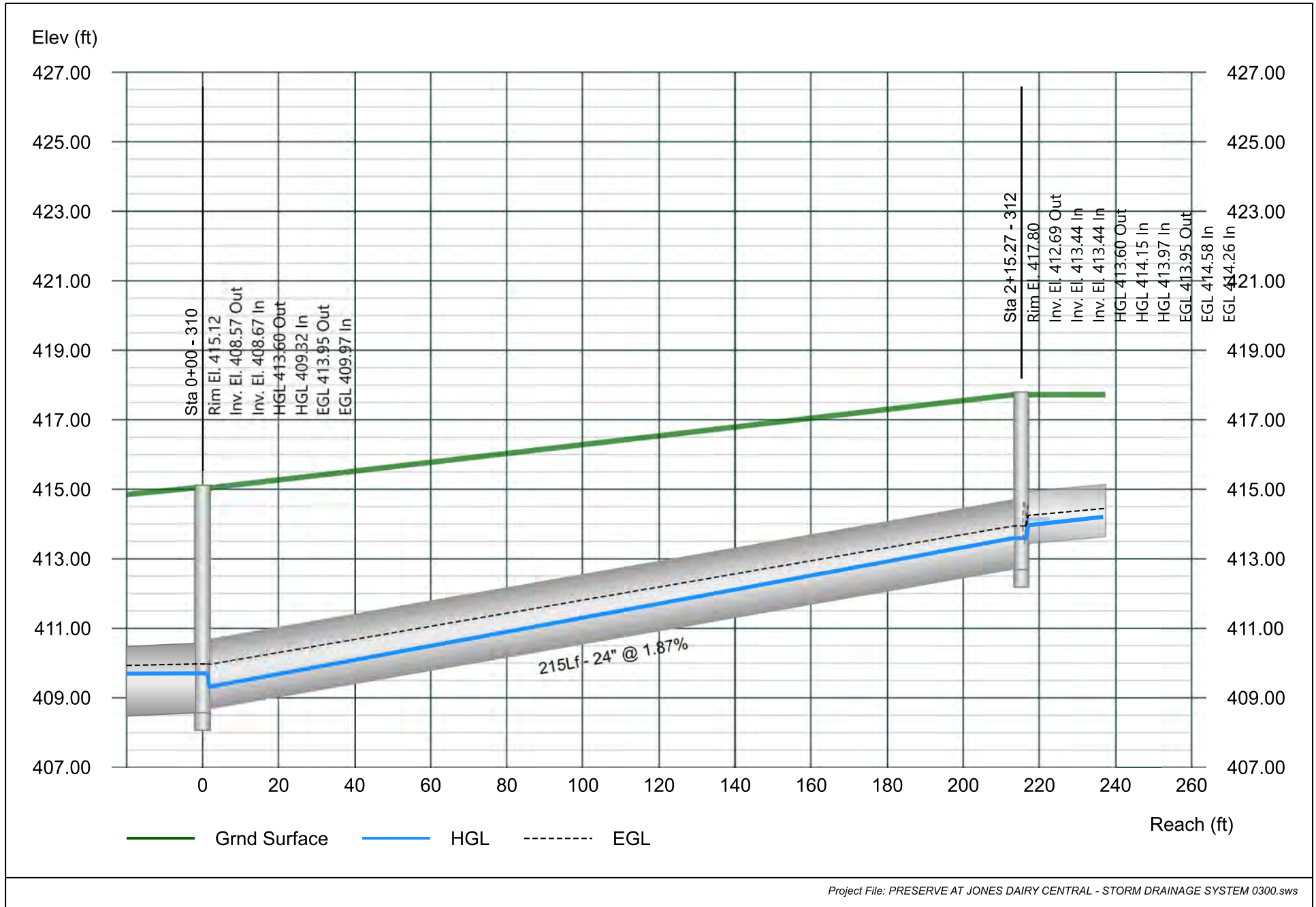
Line 22 - 363 TO 309



Line 23 - 310 TO 309



Line 24 - 312 TO 310

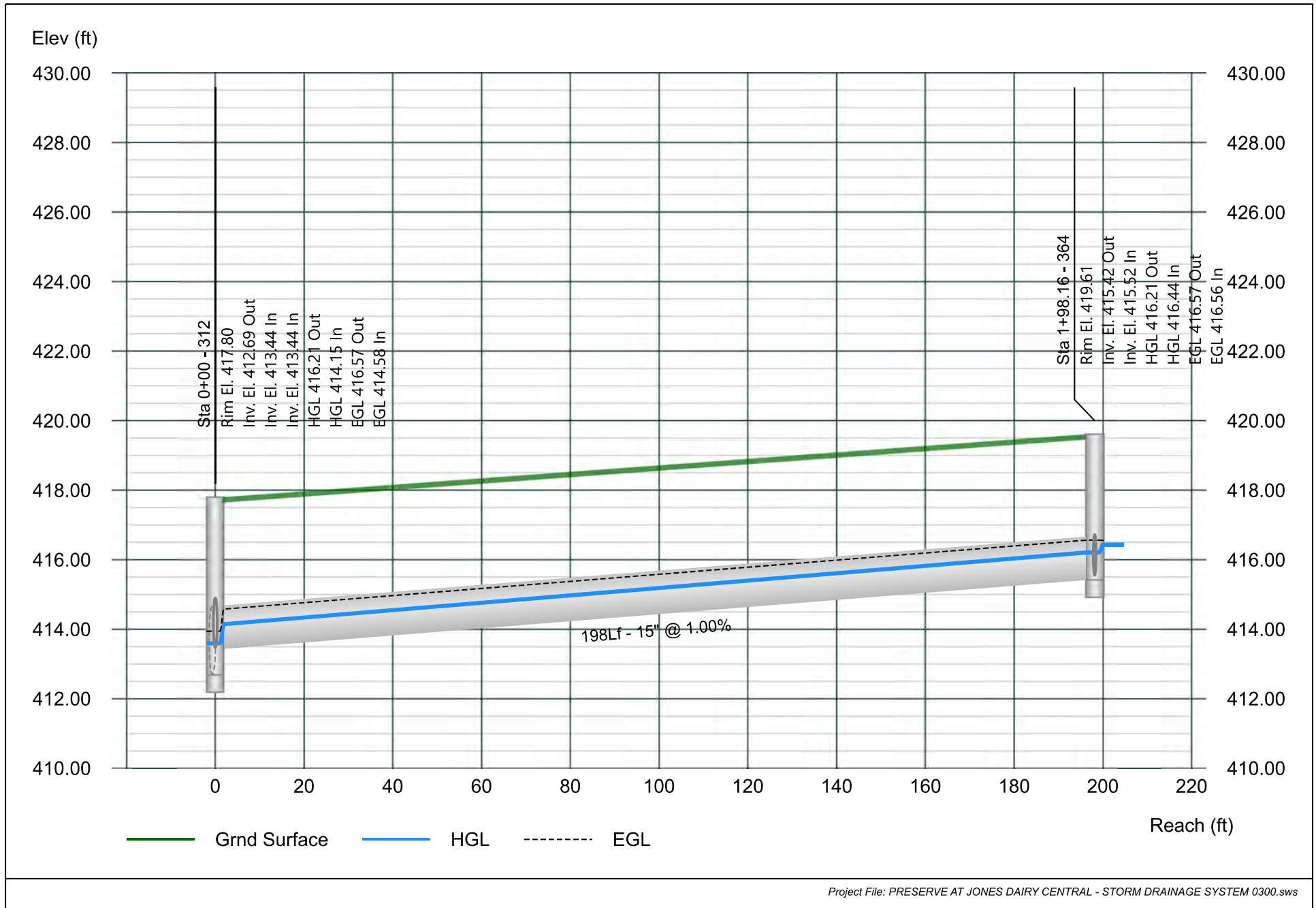


Line 25 - 364 TO 312

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

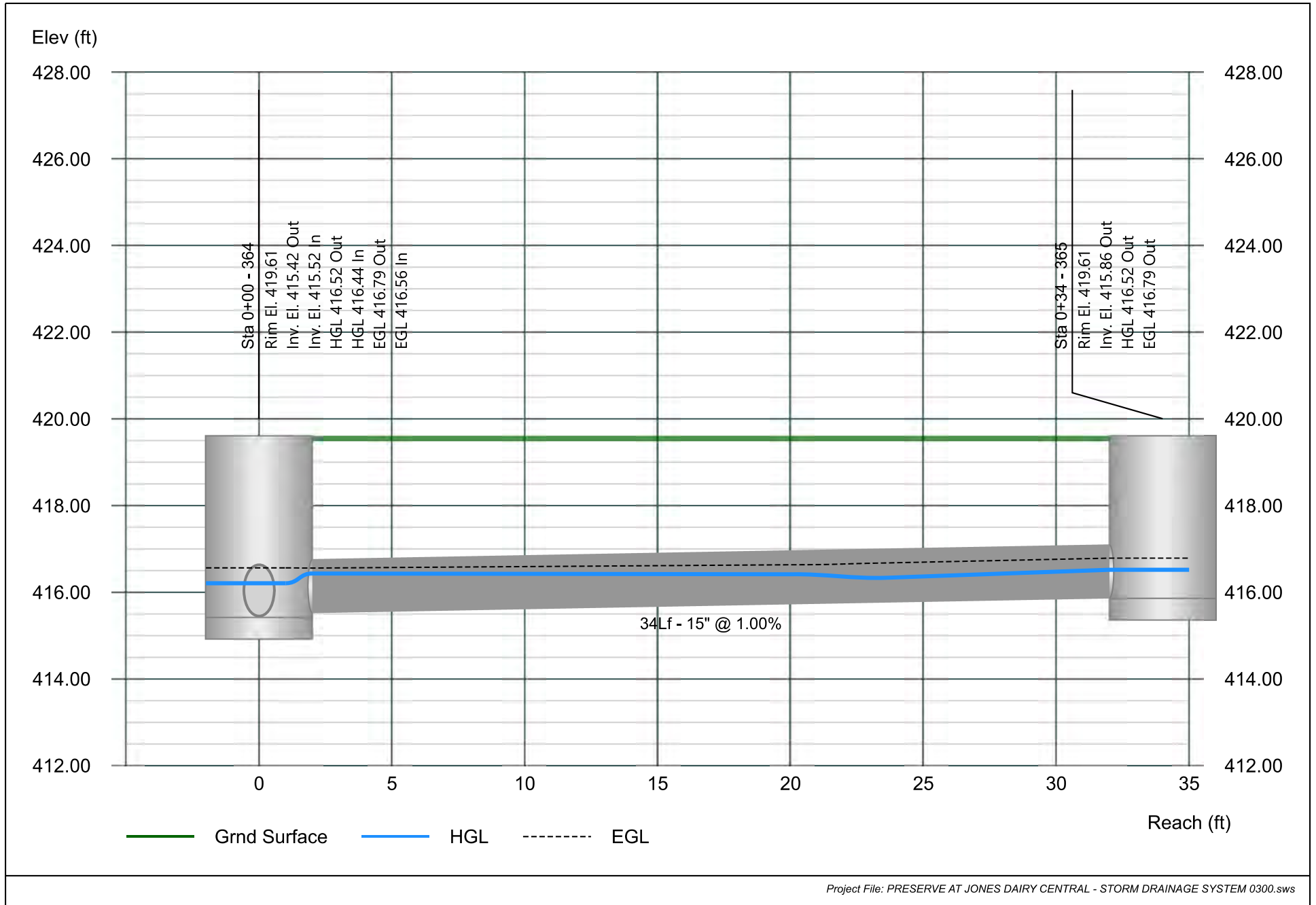


Line 26 - 365 TO 364

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

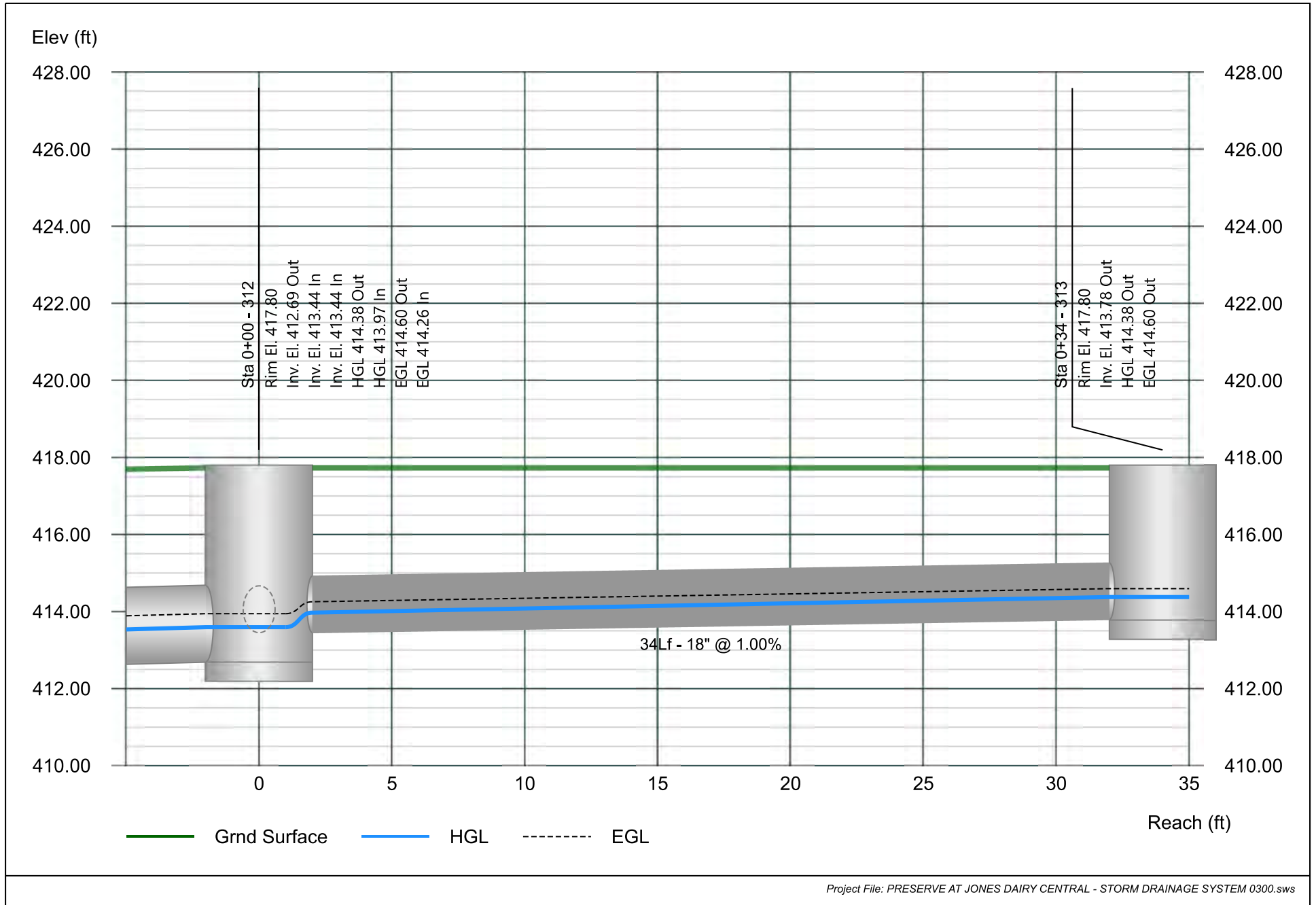


Line 27 - 313 TO 312

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

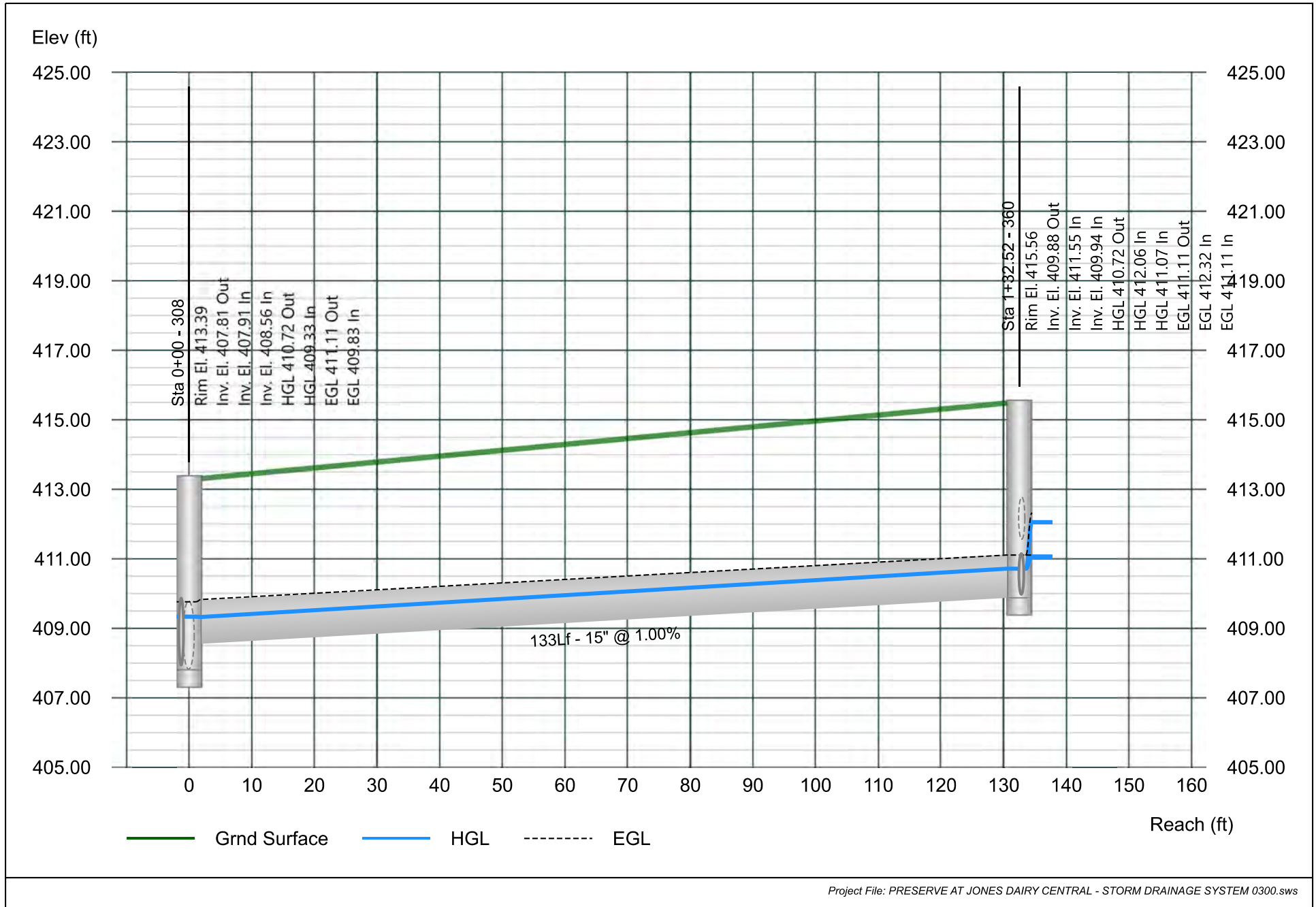


Line 28 - 360 TO 308

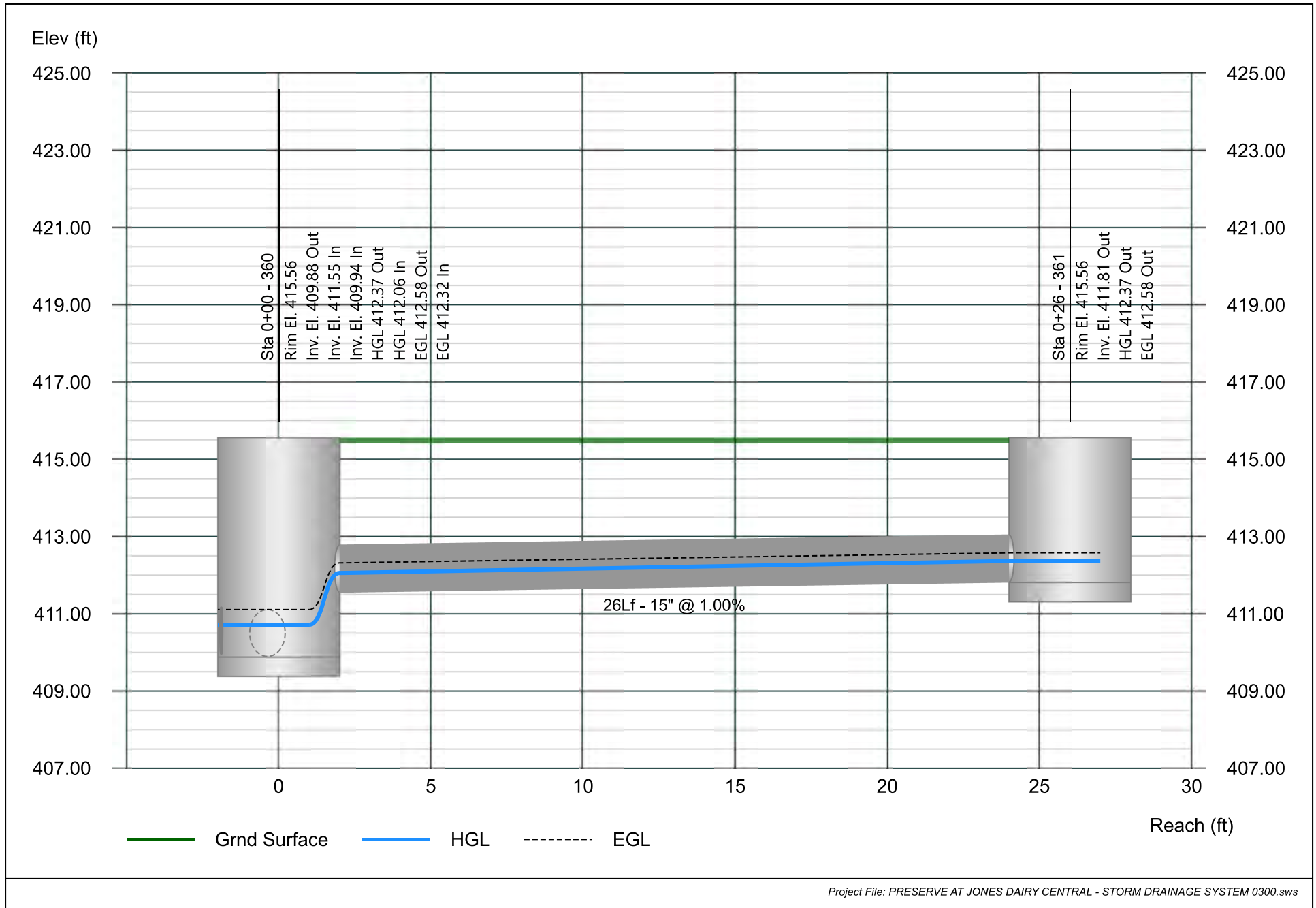
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 29 - 361 TO 360

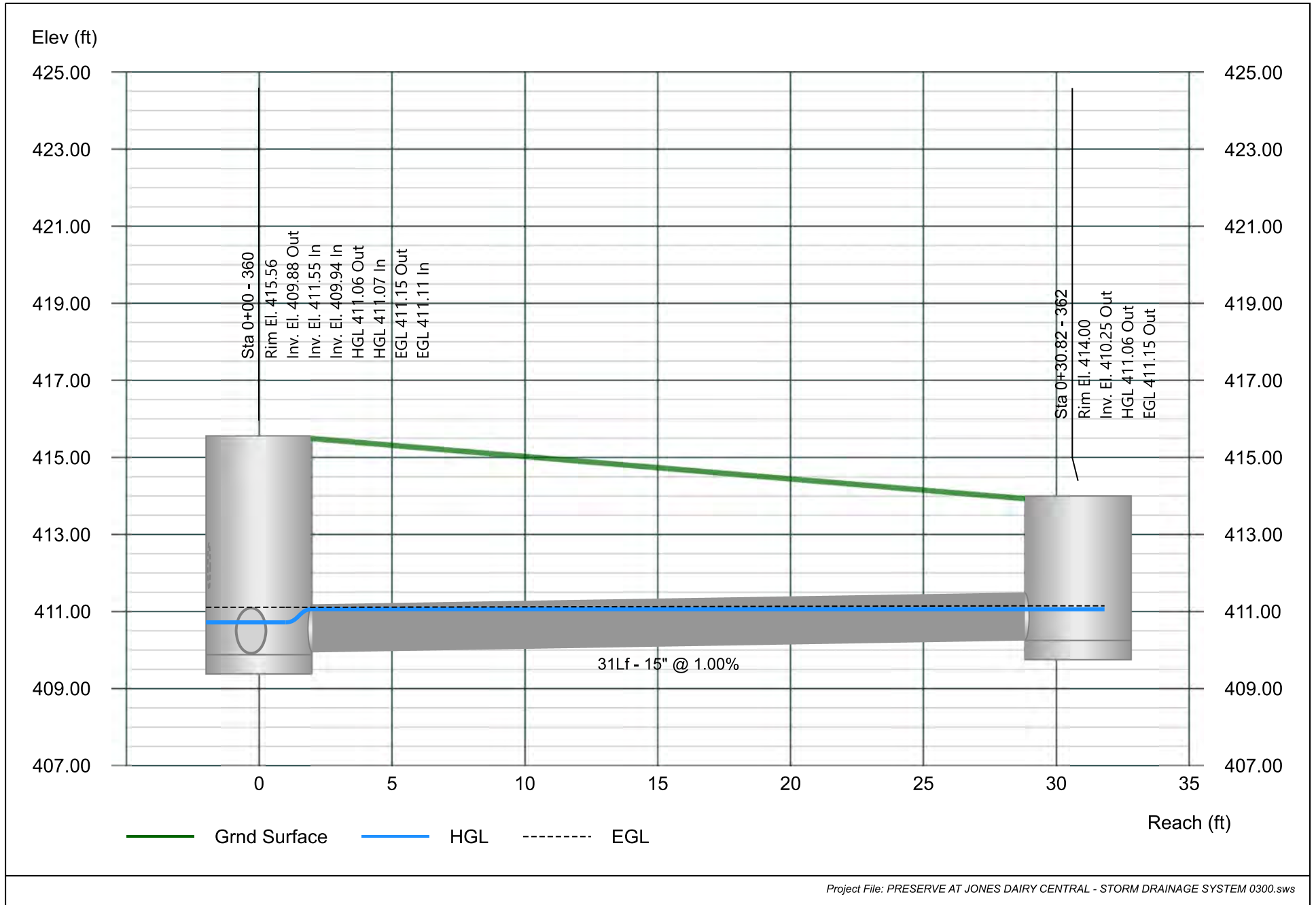


Line 30 - 362 TO 360

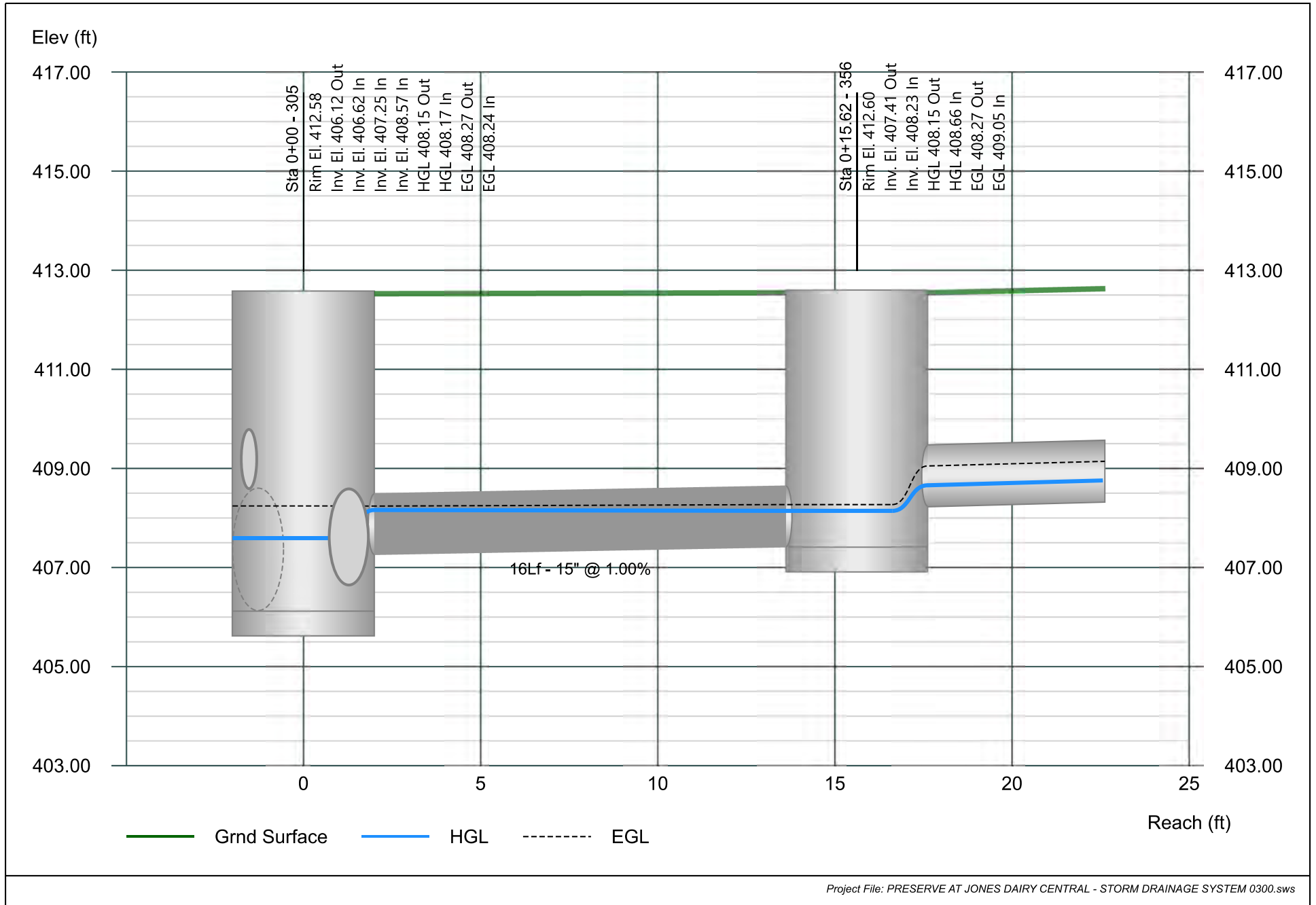
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

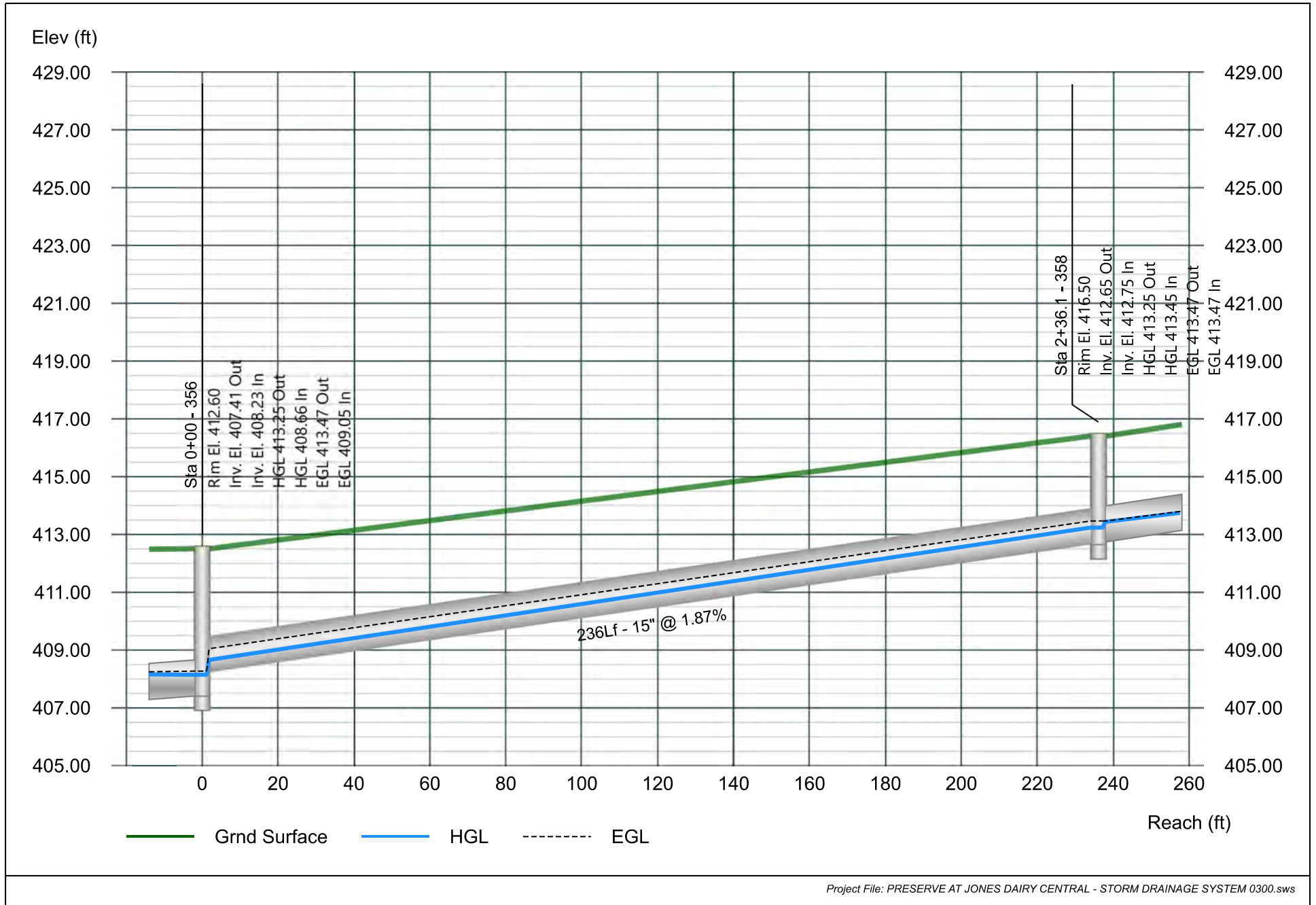
03-01-2024



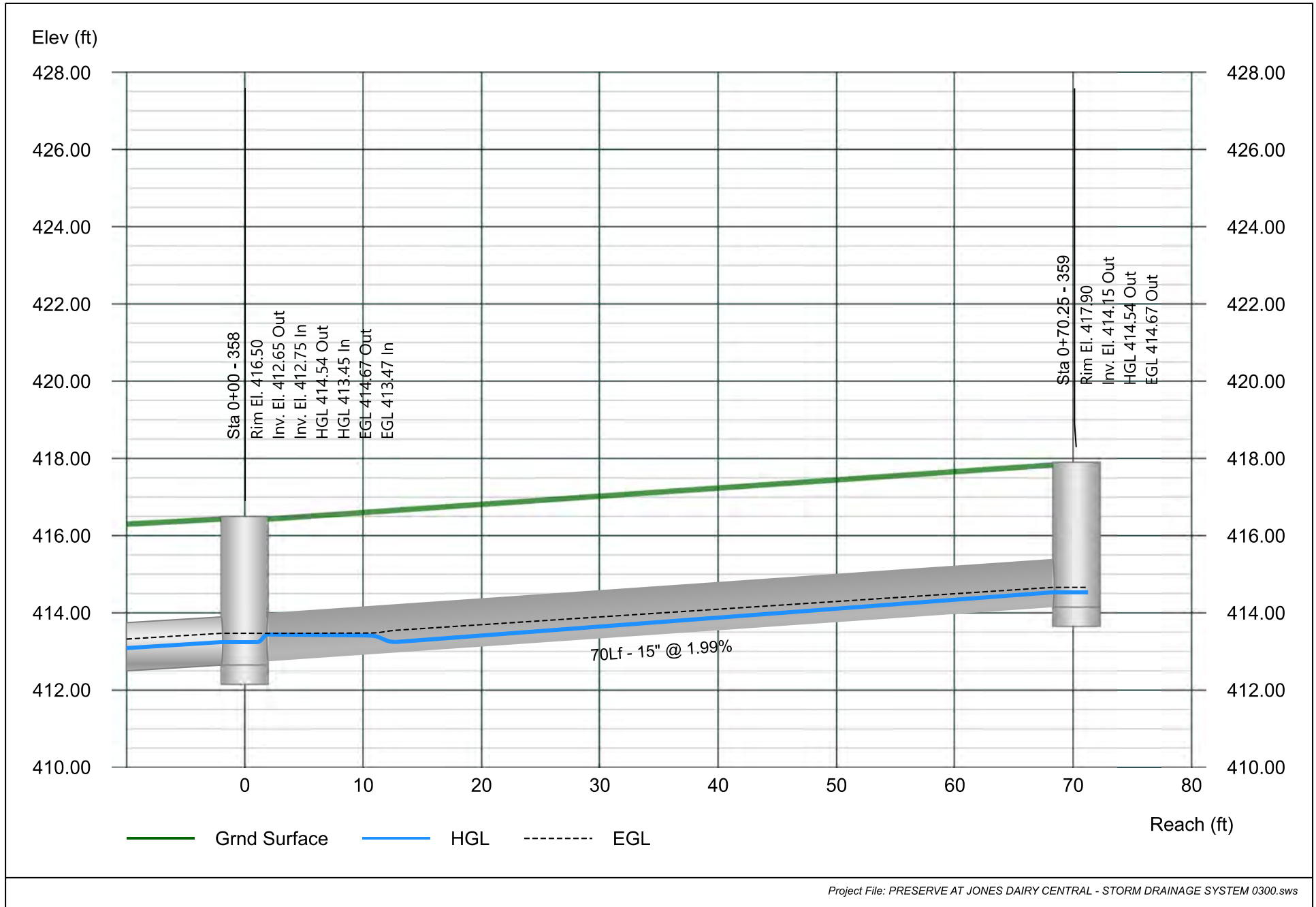
Line 31 - 356 TO 305



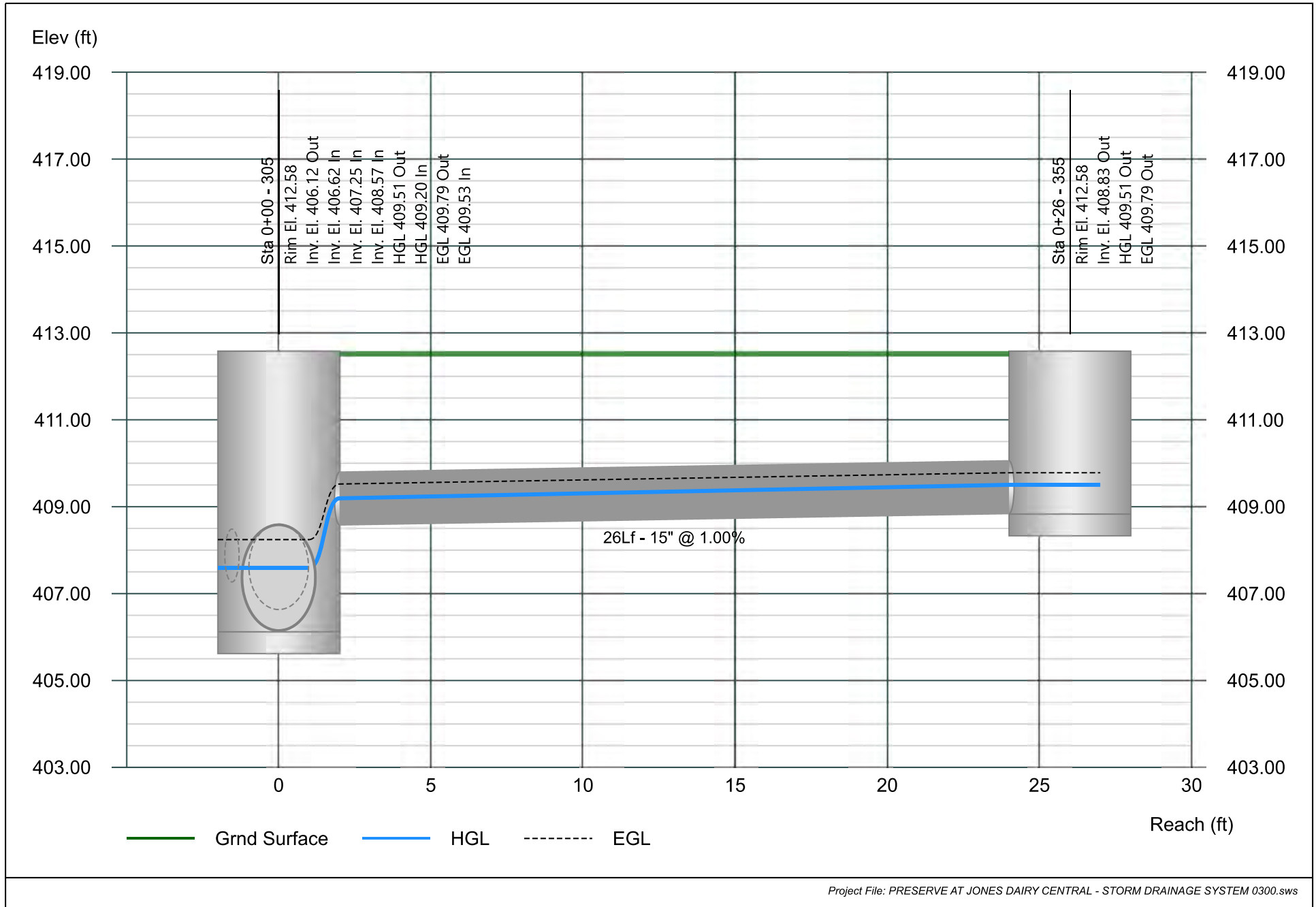
Line 32 - 358 TO 357



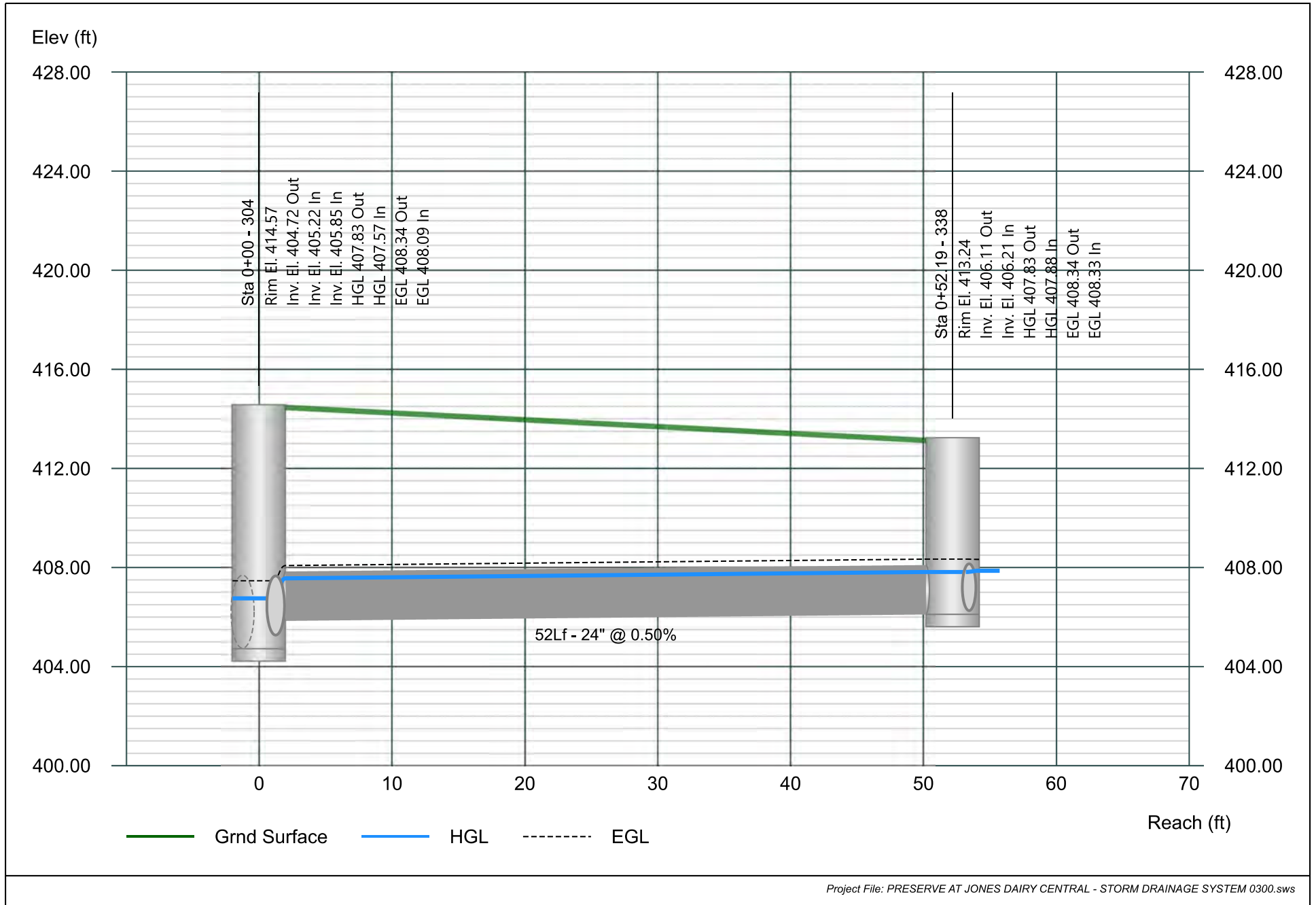
Line 33 - 359 TO 358



Line 34 - 355 TO 305



Line 35 - 338 TO 304

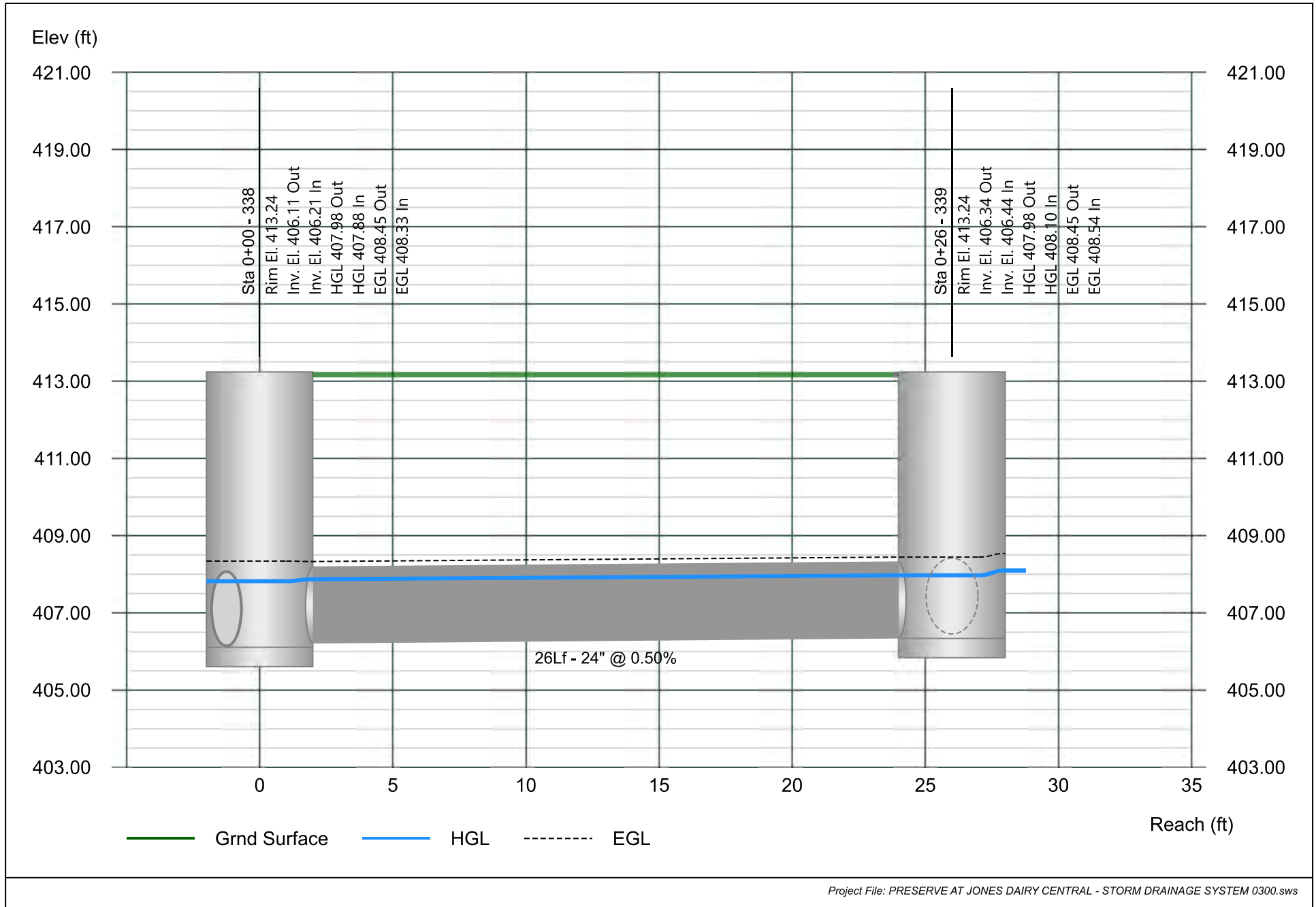


Line 36 - 339 TO 338

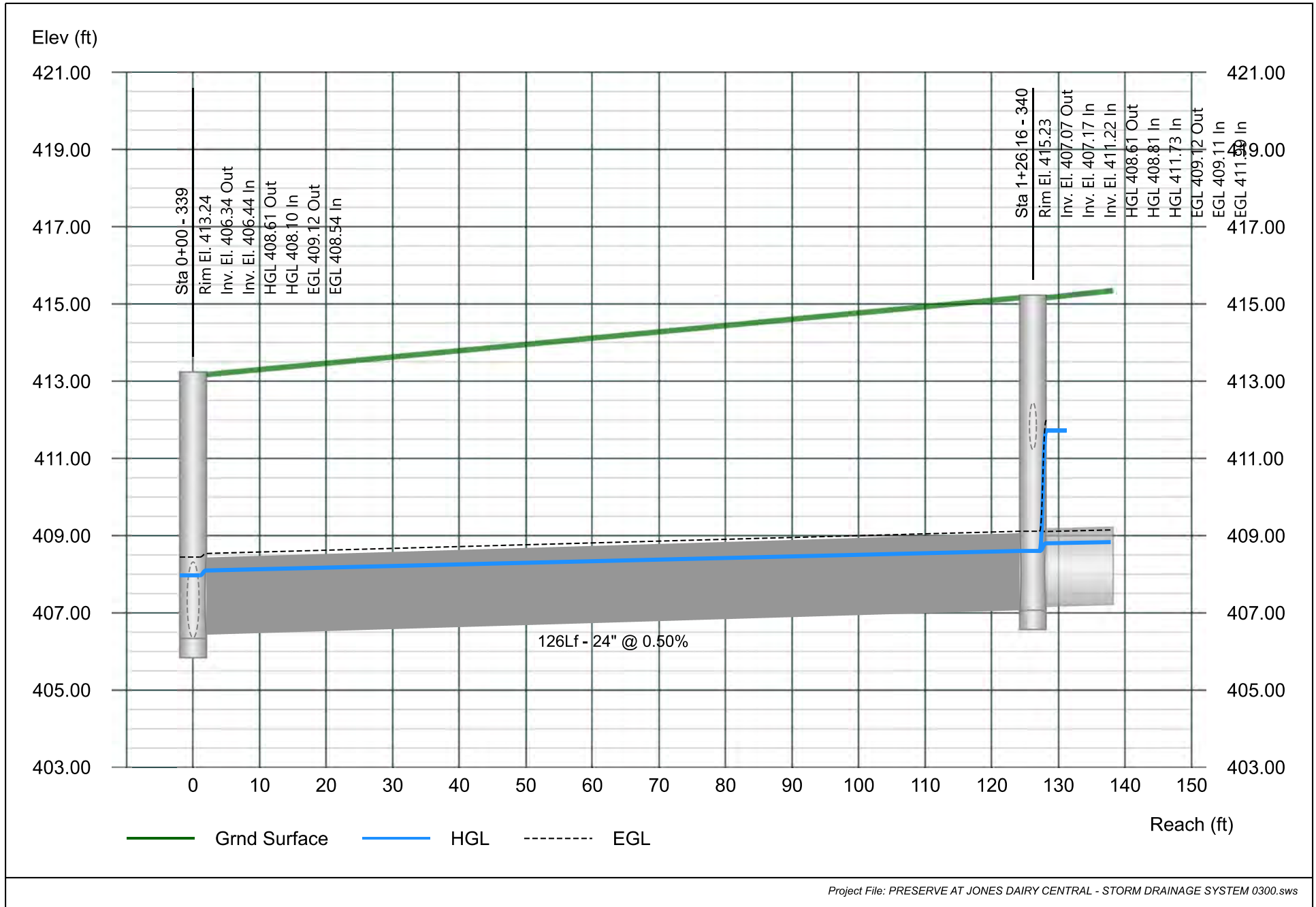
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 37 - 340 TO 339

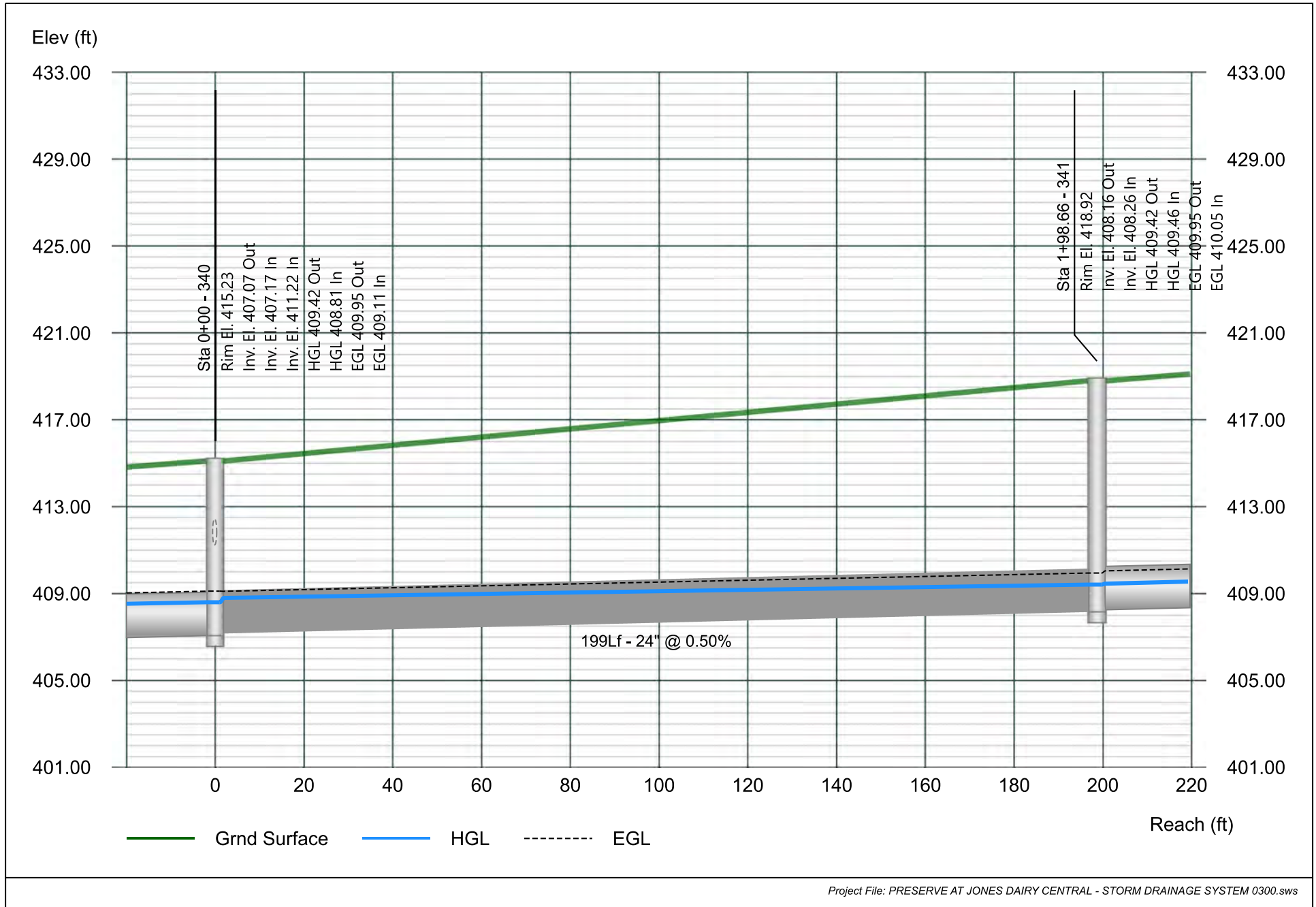


Line 38 - 341 TO 340

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

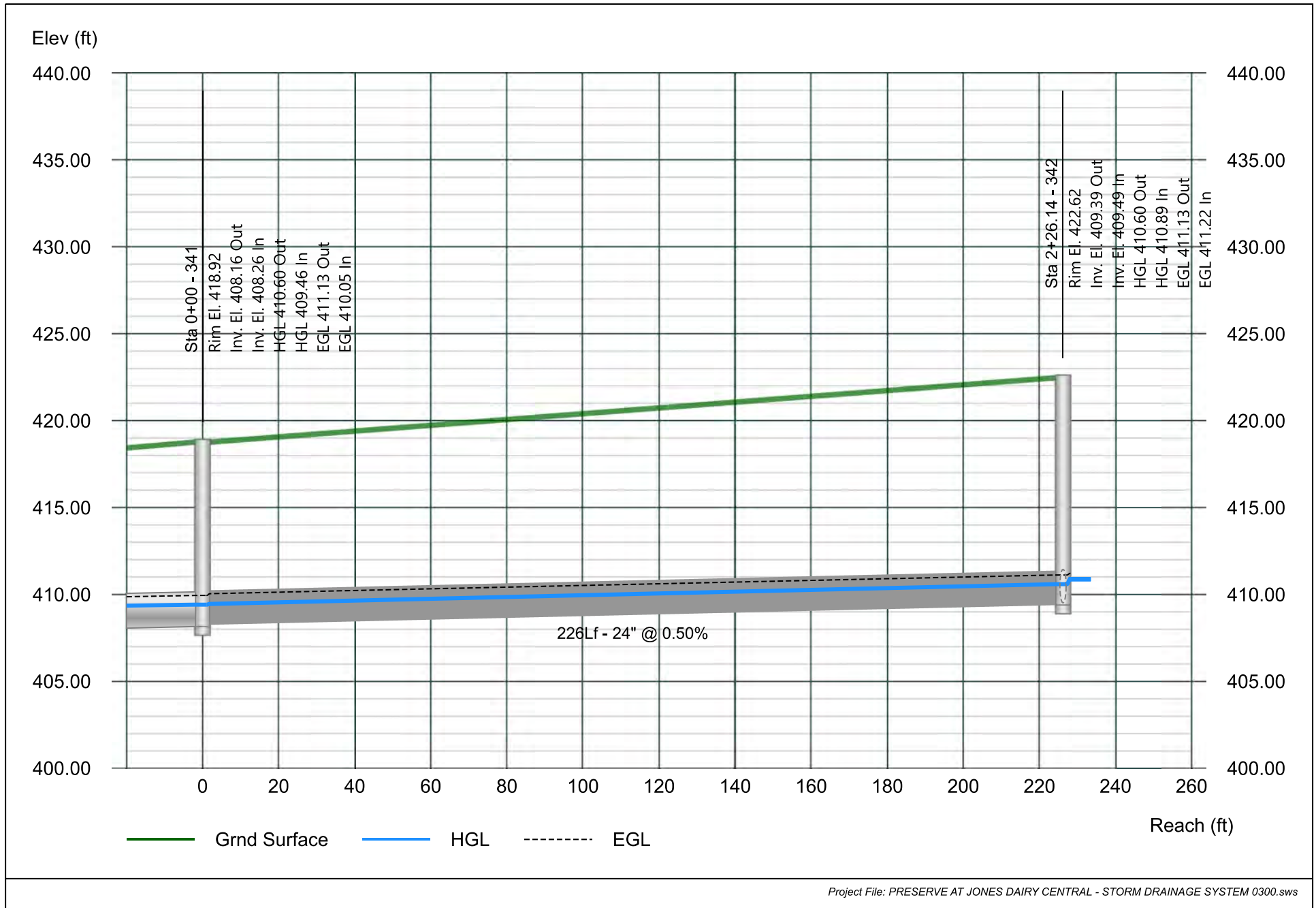


Line 39 - 342 TO 341

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

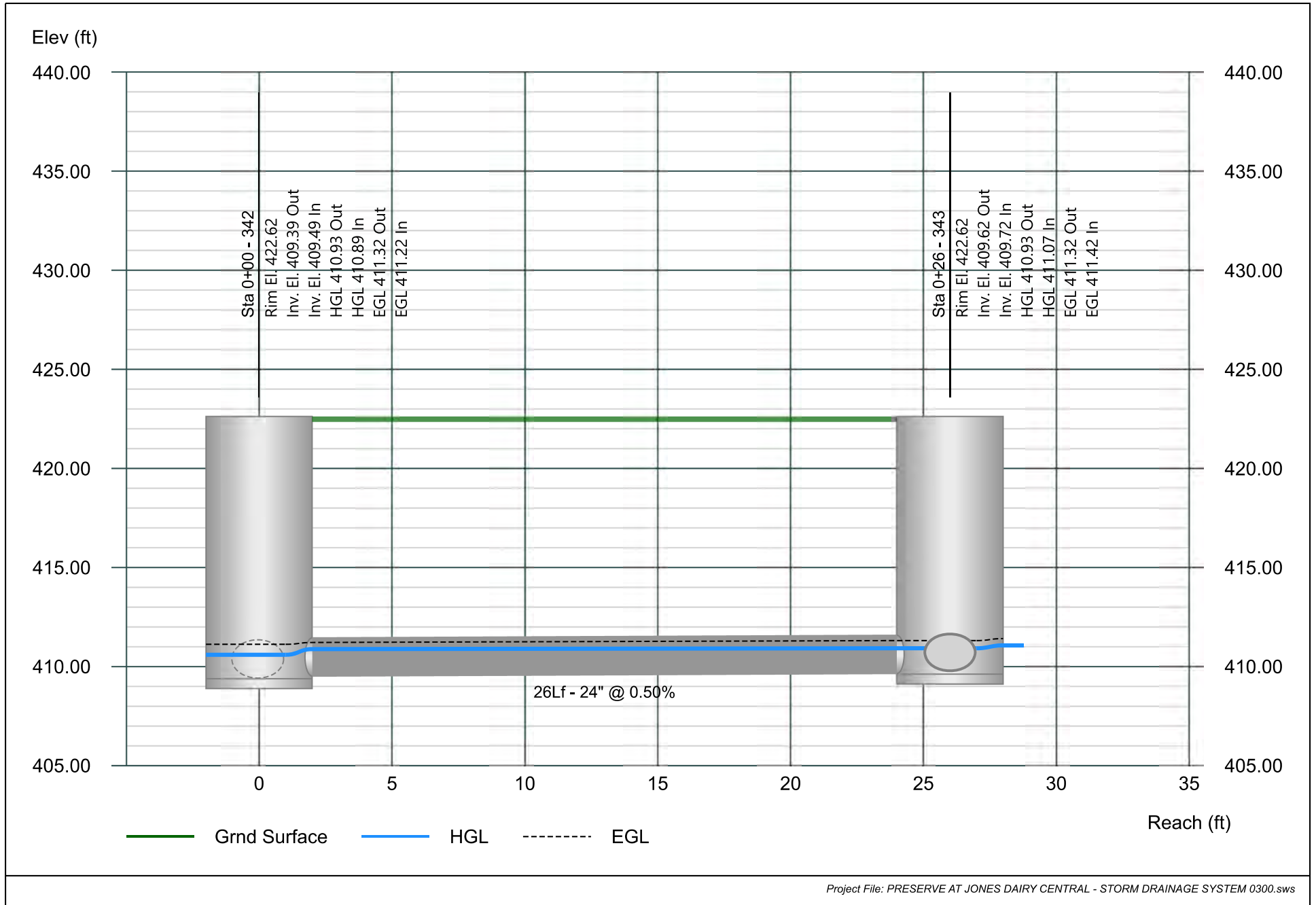


Line 40 - 343 TO 342

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

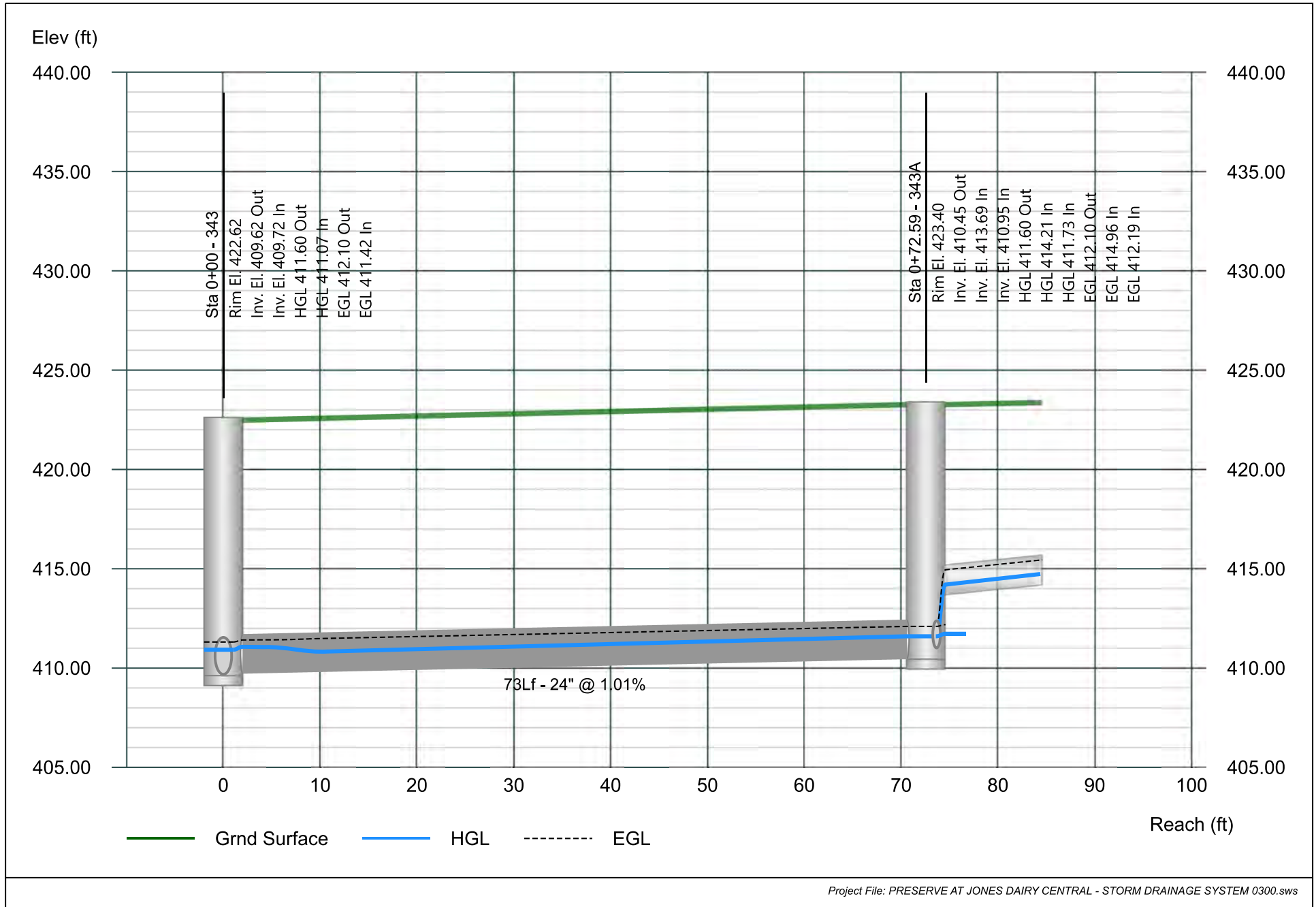


Line 41 - 343A TO 343

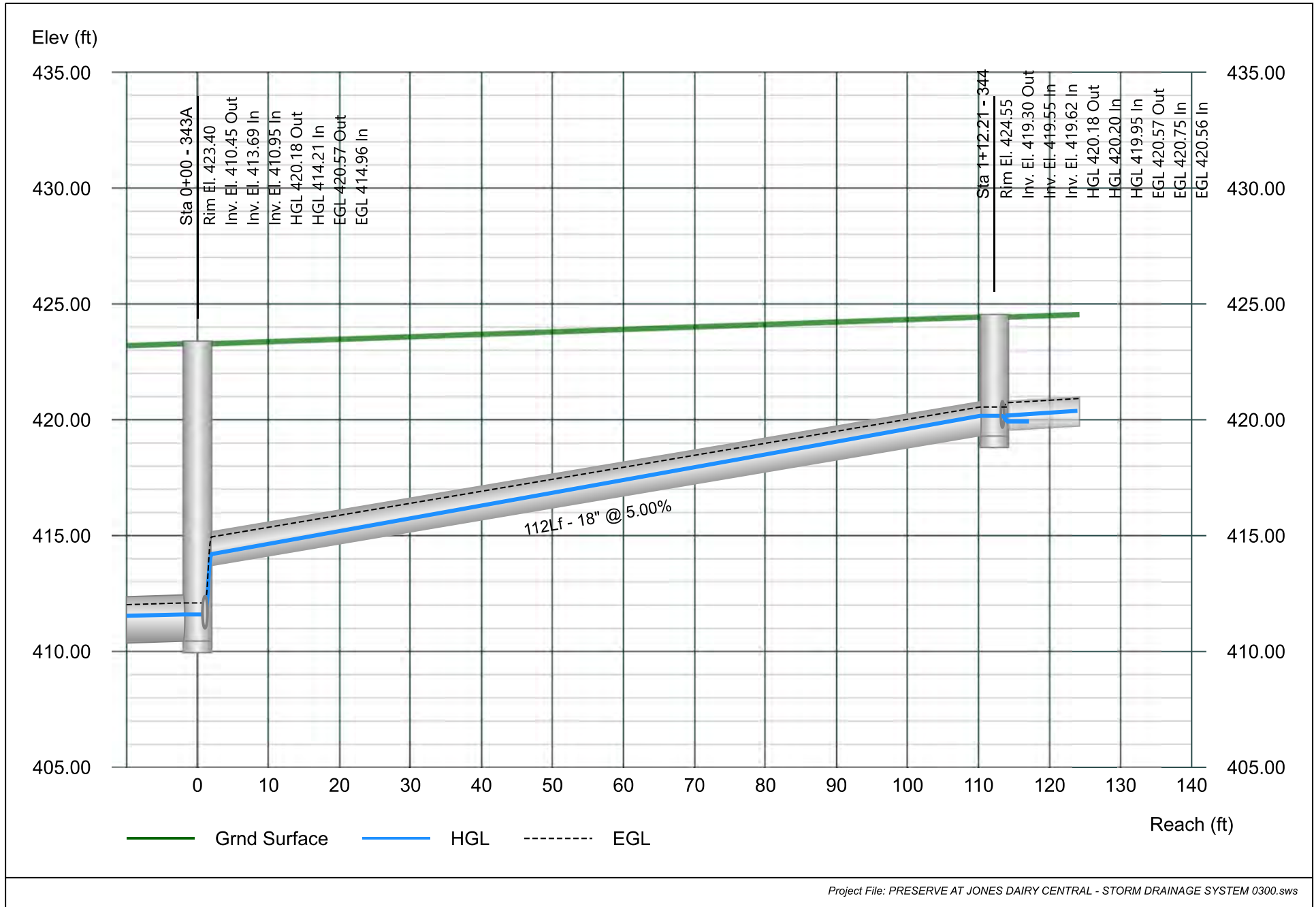
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

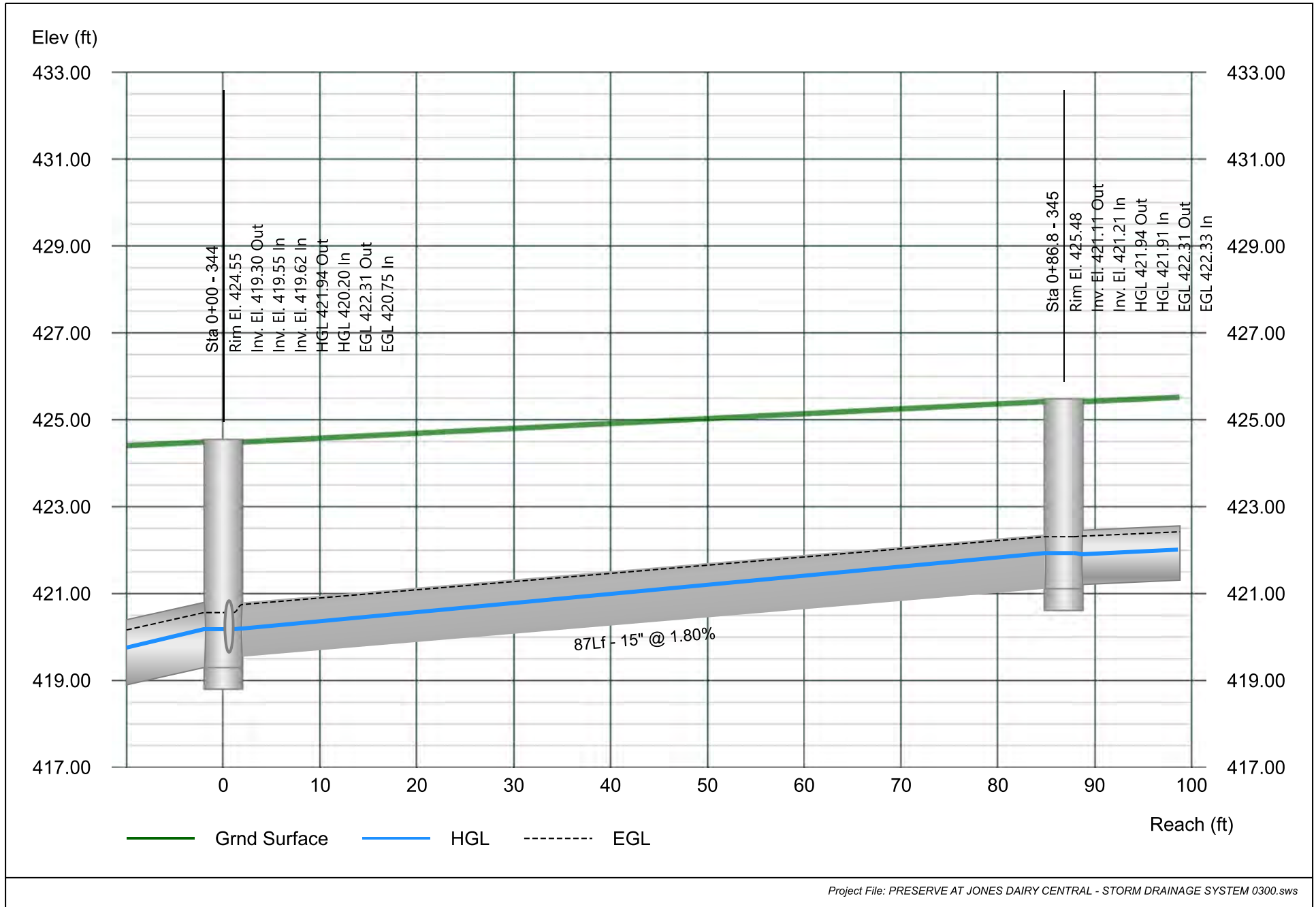
03-01-2024



Line 42 - 344 TO 343



Line 43 - 345 TO 344

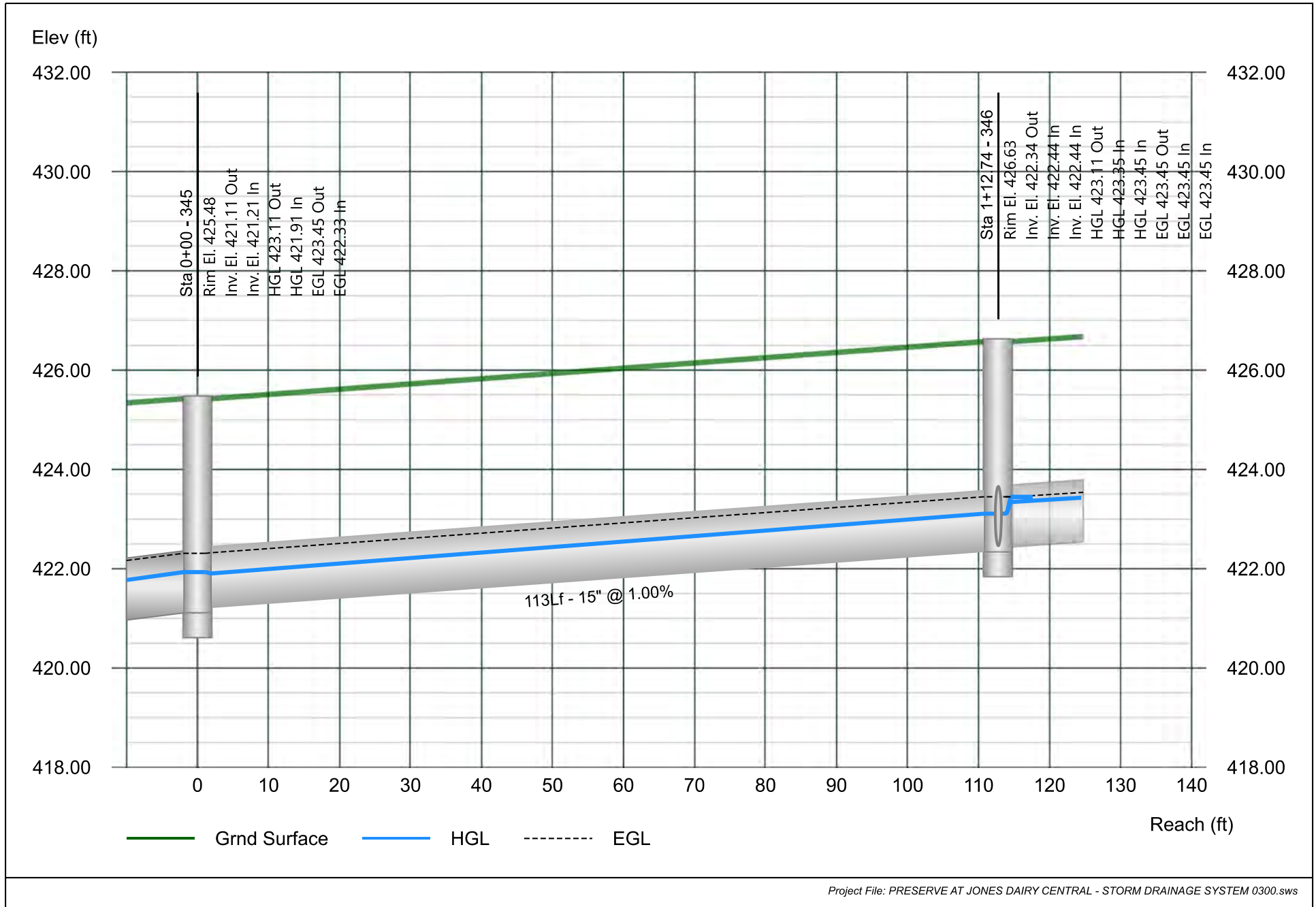


Line 44 - 346 TO 345

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

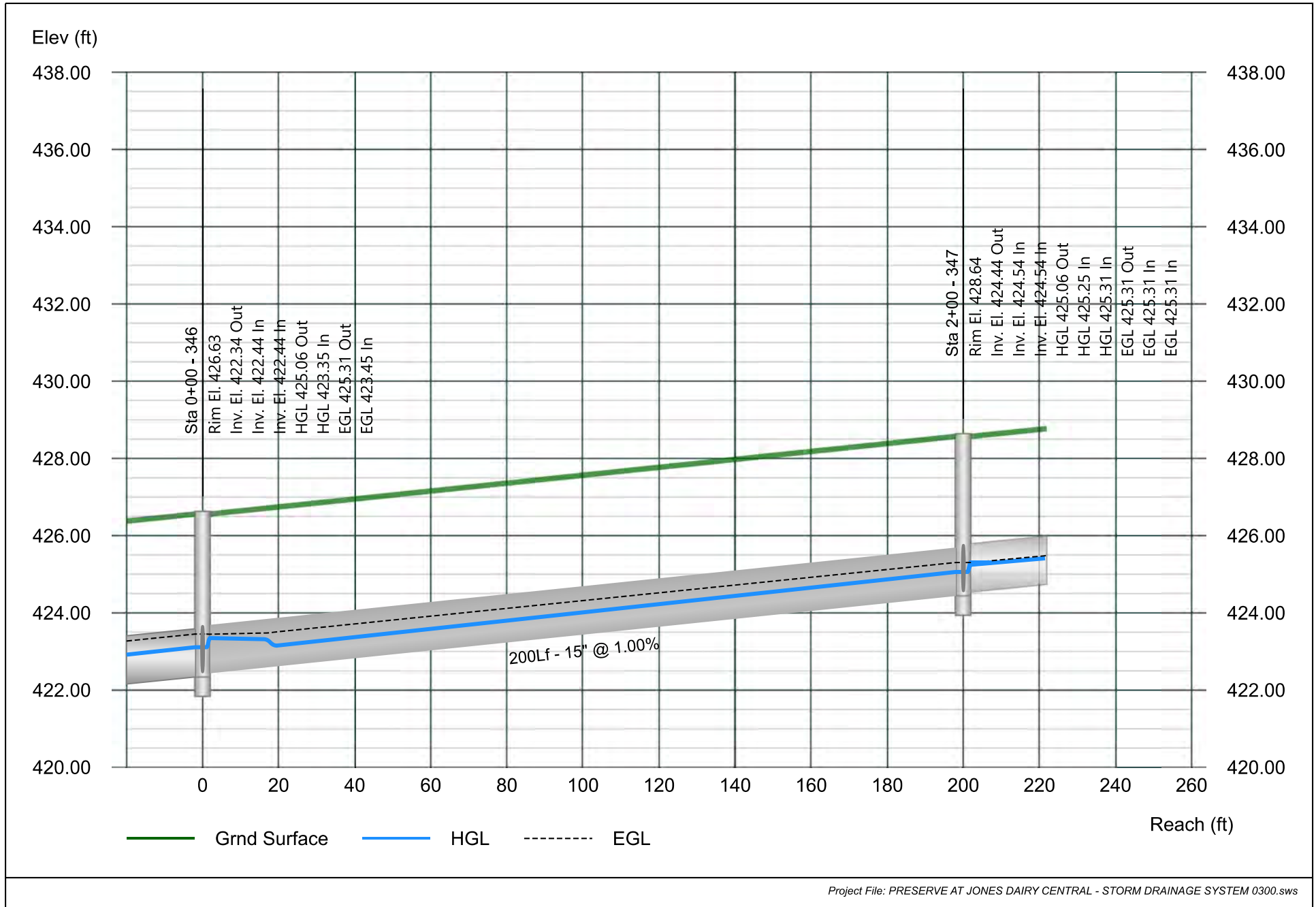


Line 45 - 347 TO 346

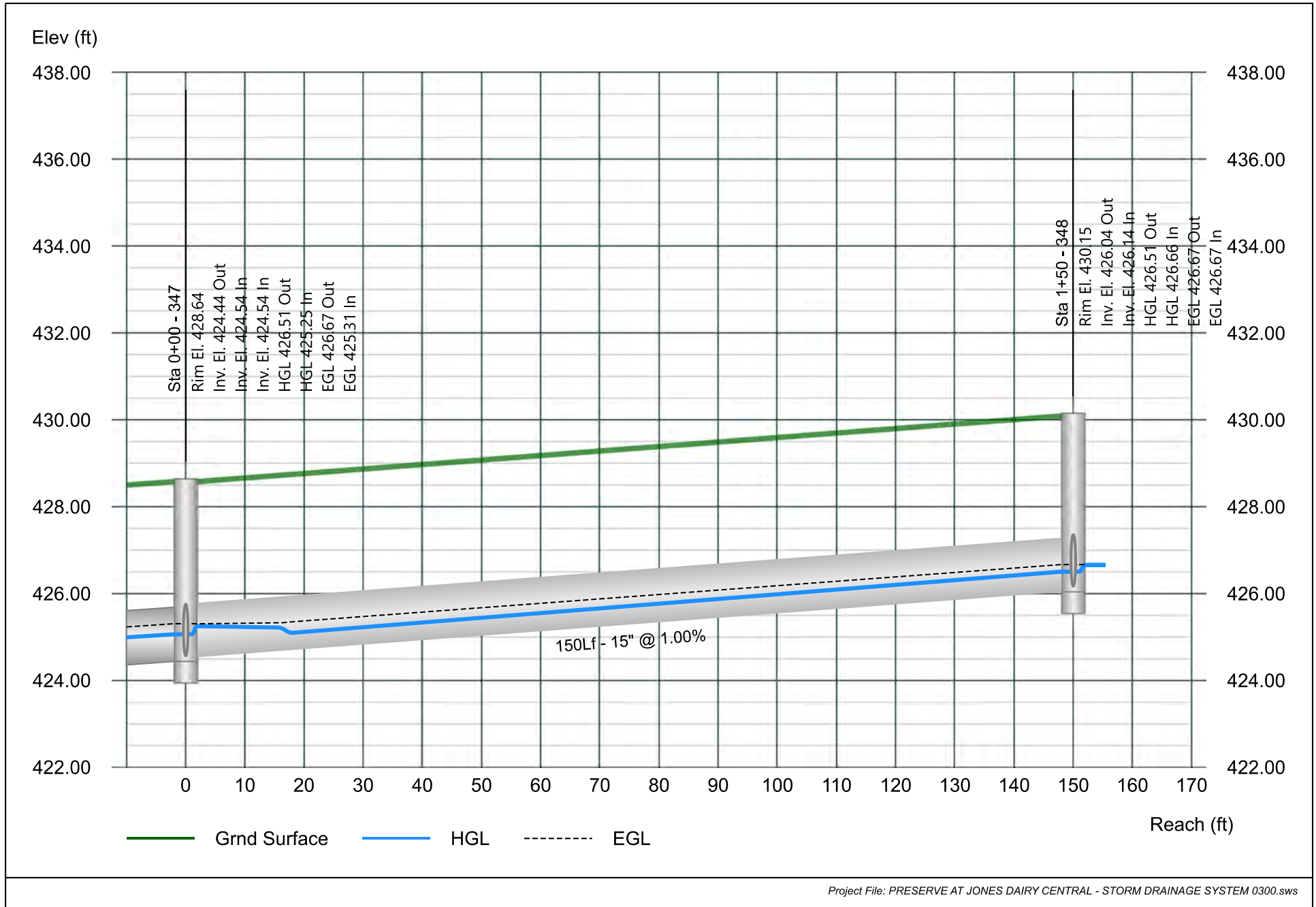
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 46 - 348 TO 347

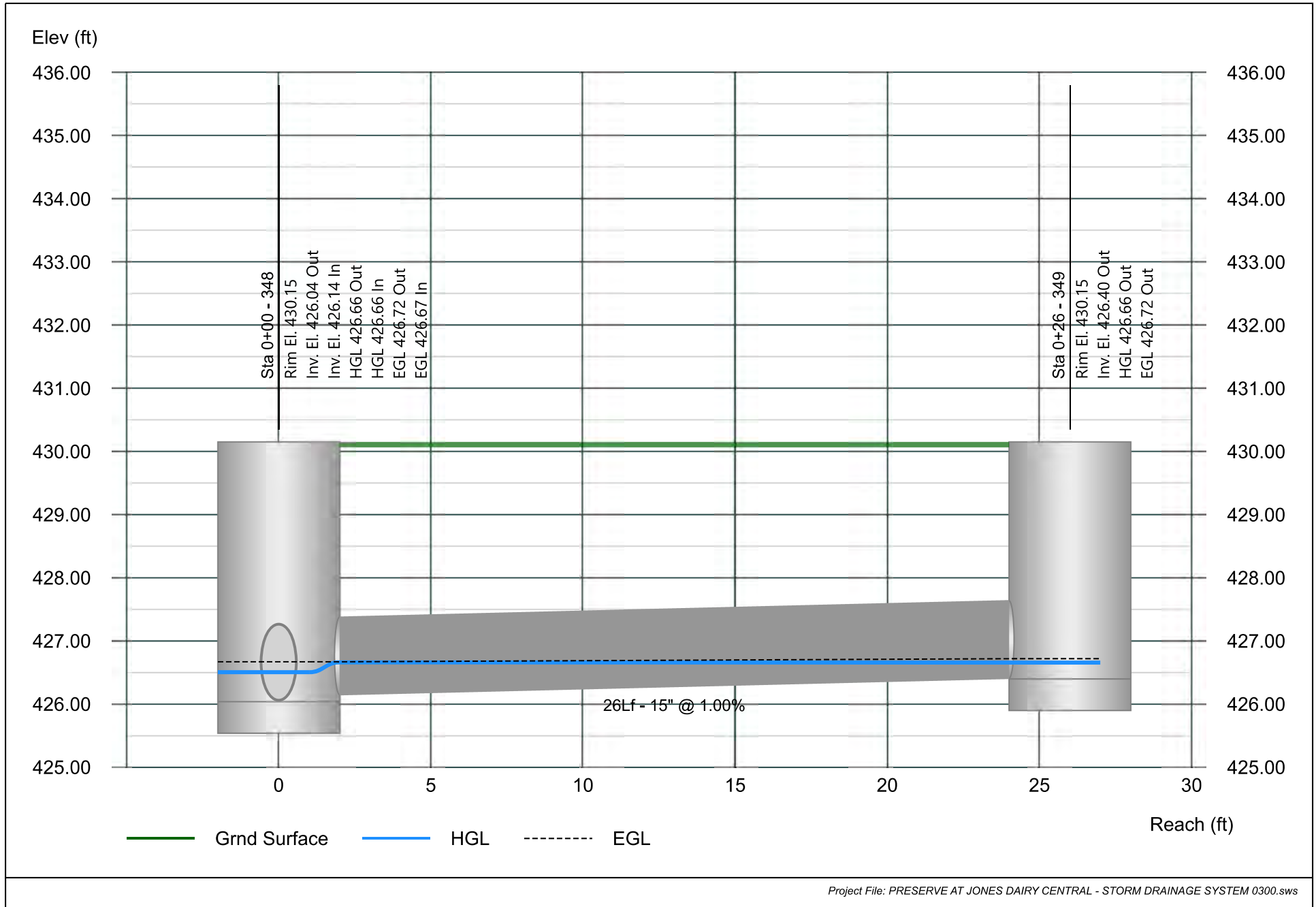


Line 47 - 349 TO 348

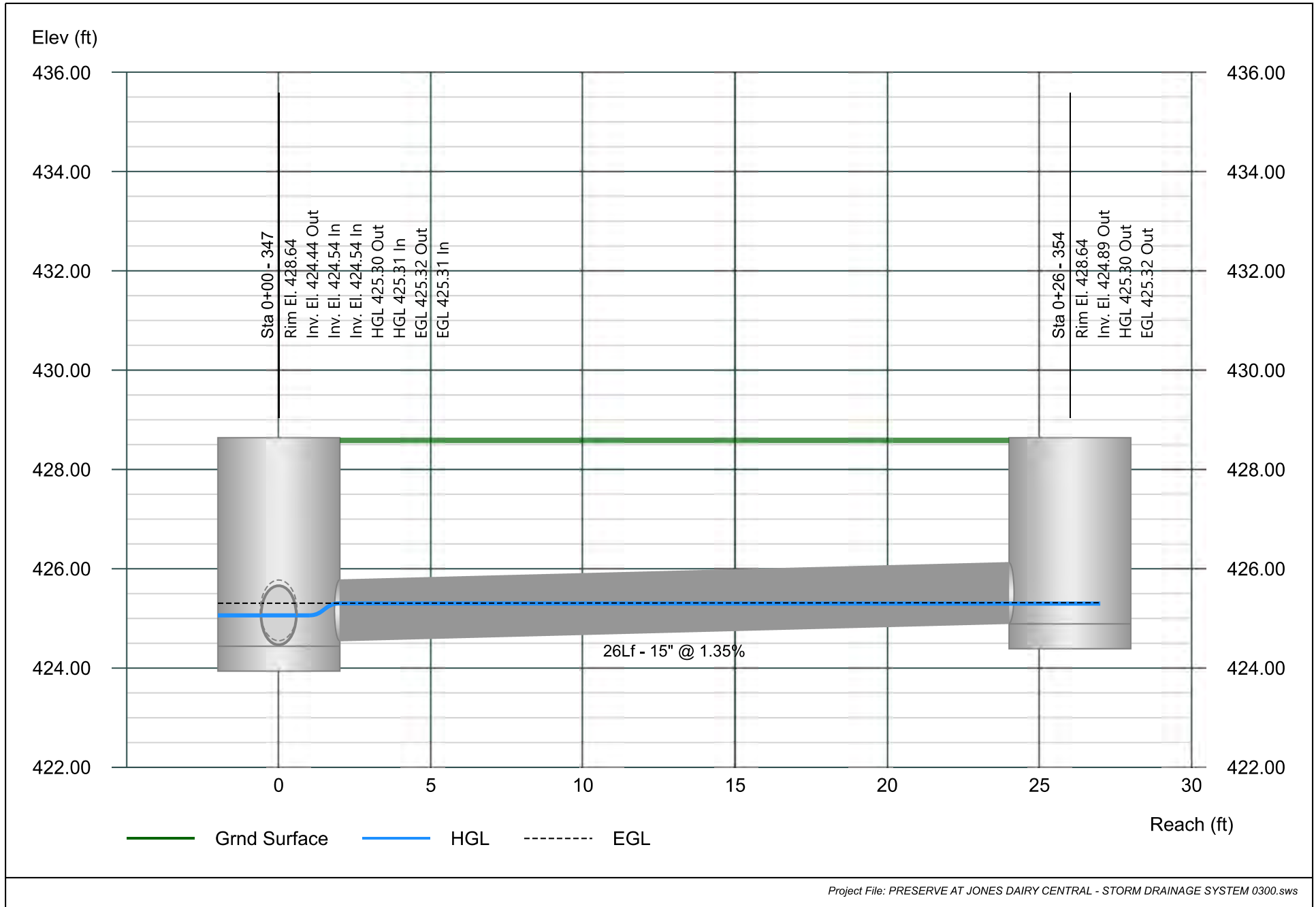
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

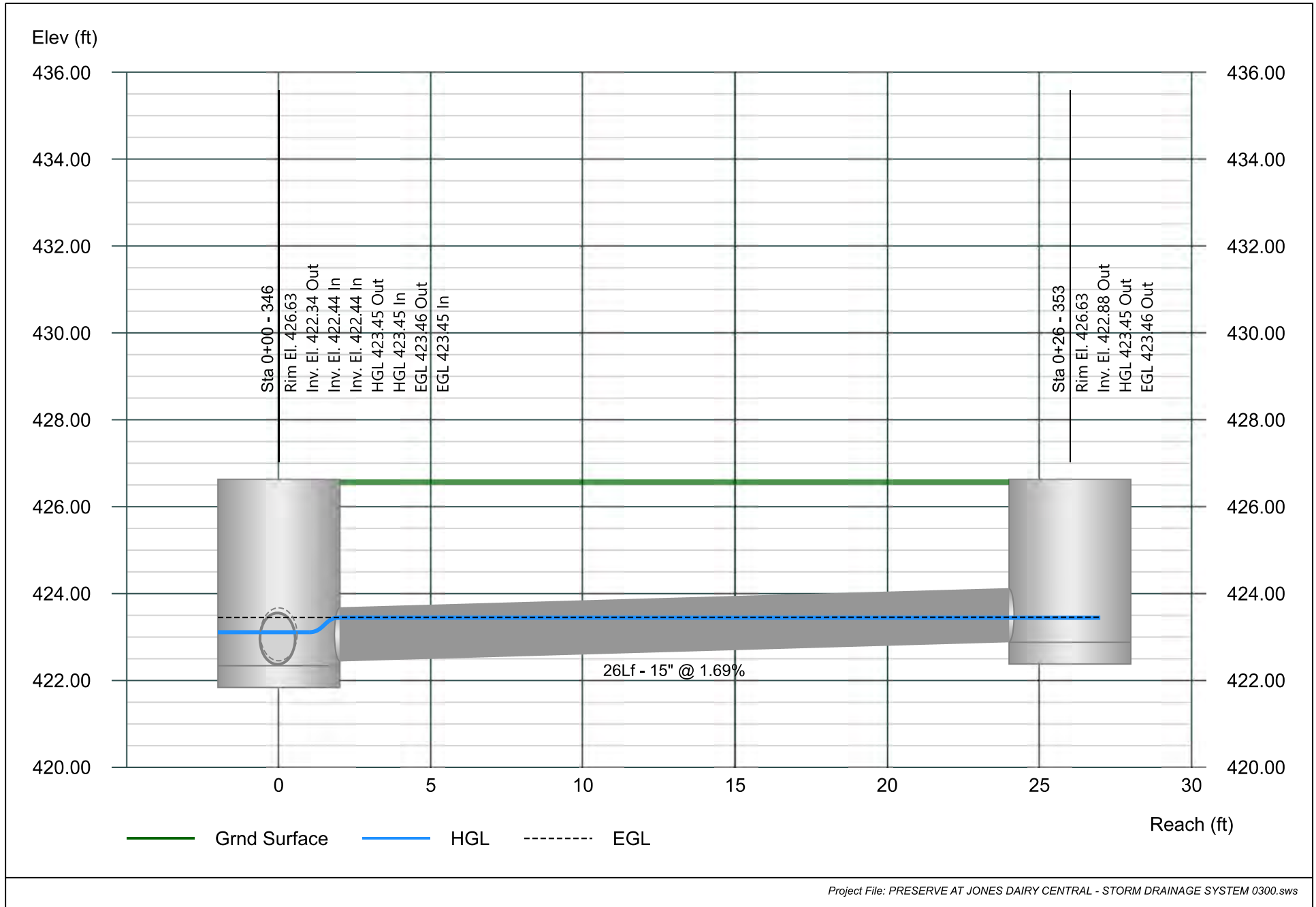
03-01-2024



Line 48 - 354 TO 347



Line 49 - 353 TO 346

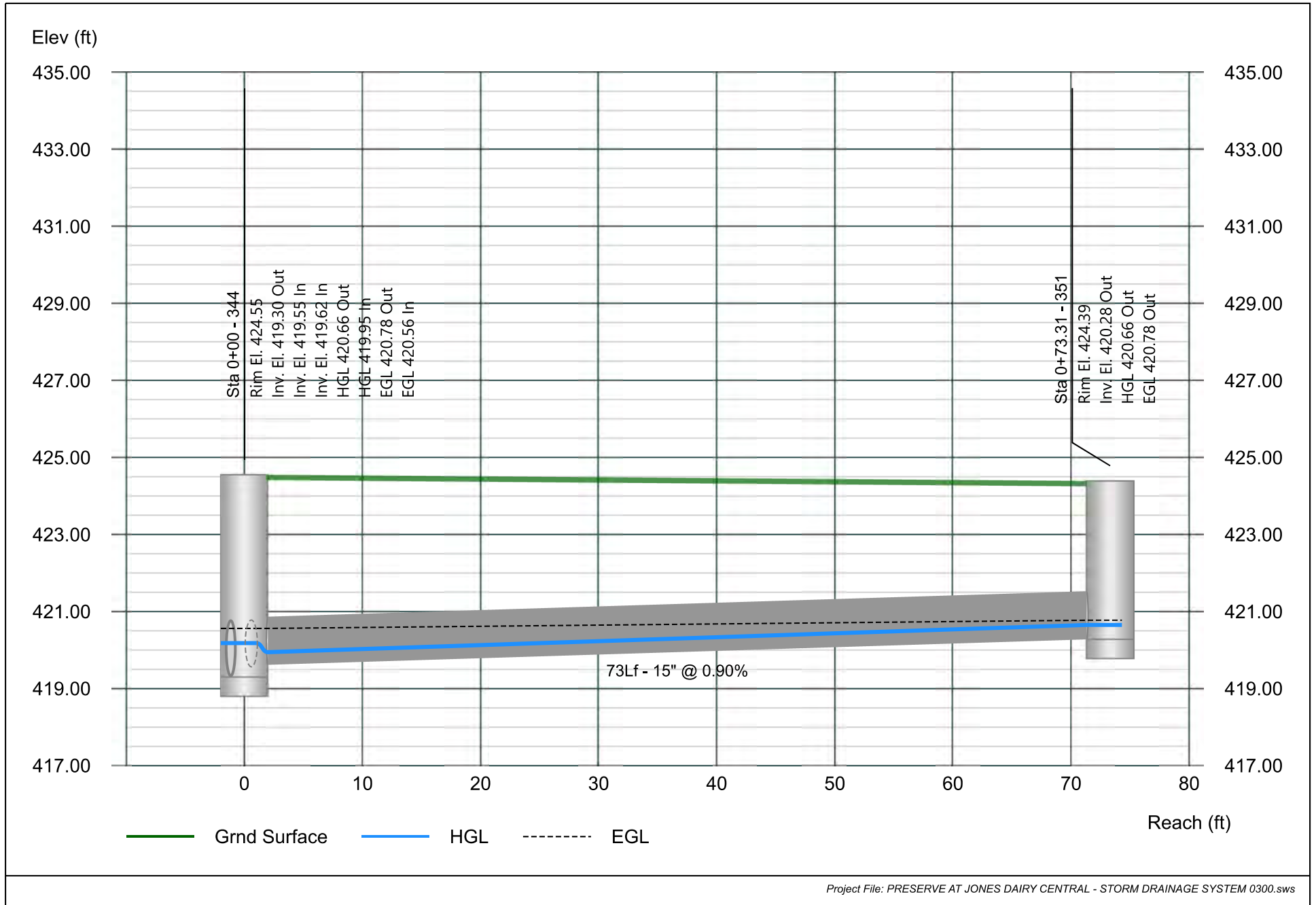


Line 50 - 351 TO 344

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

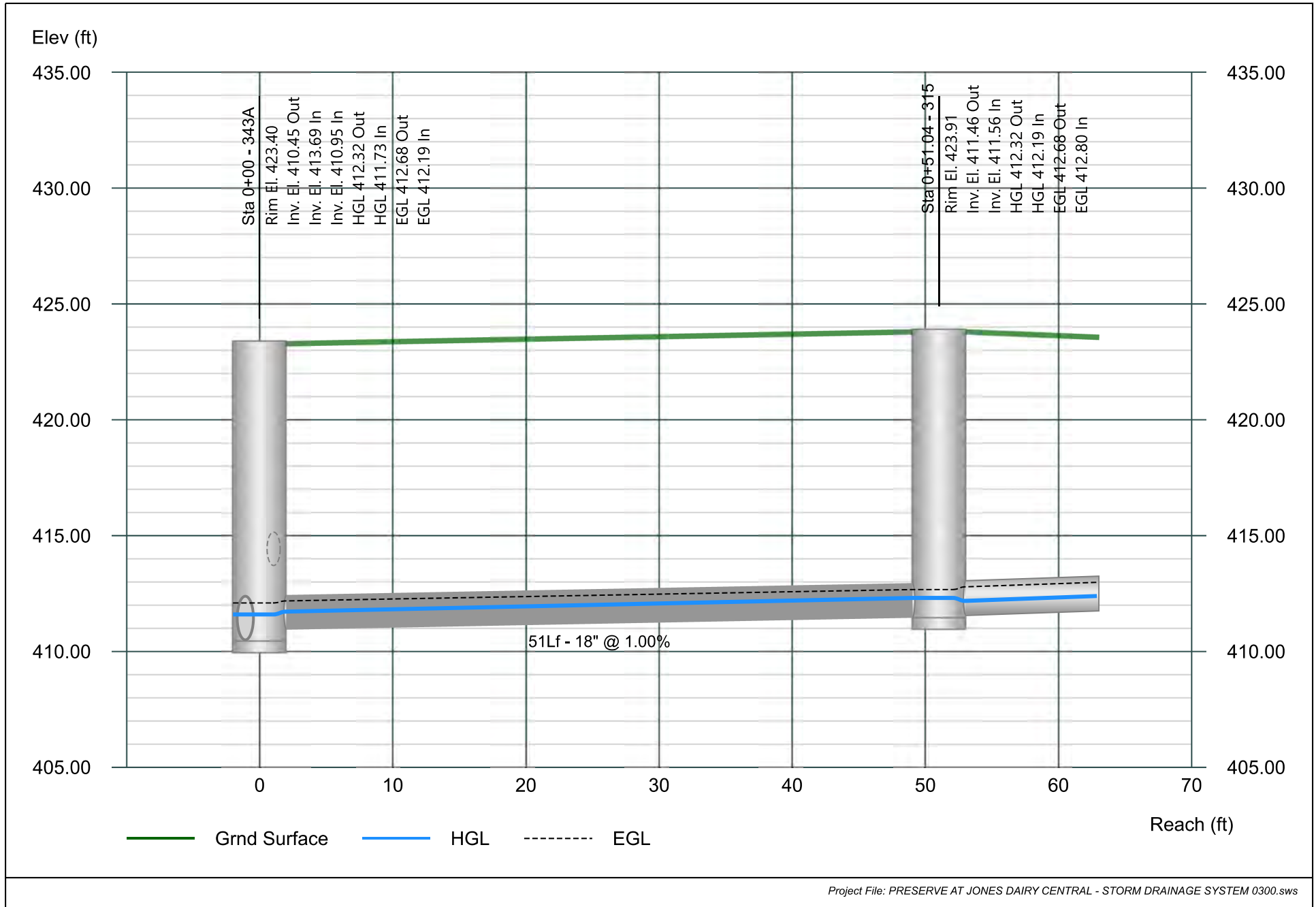


Line 51 - 315 TO 343A

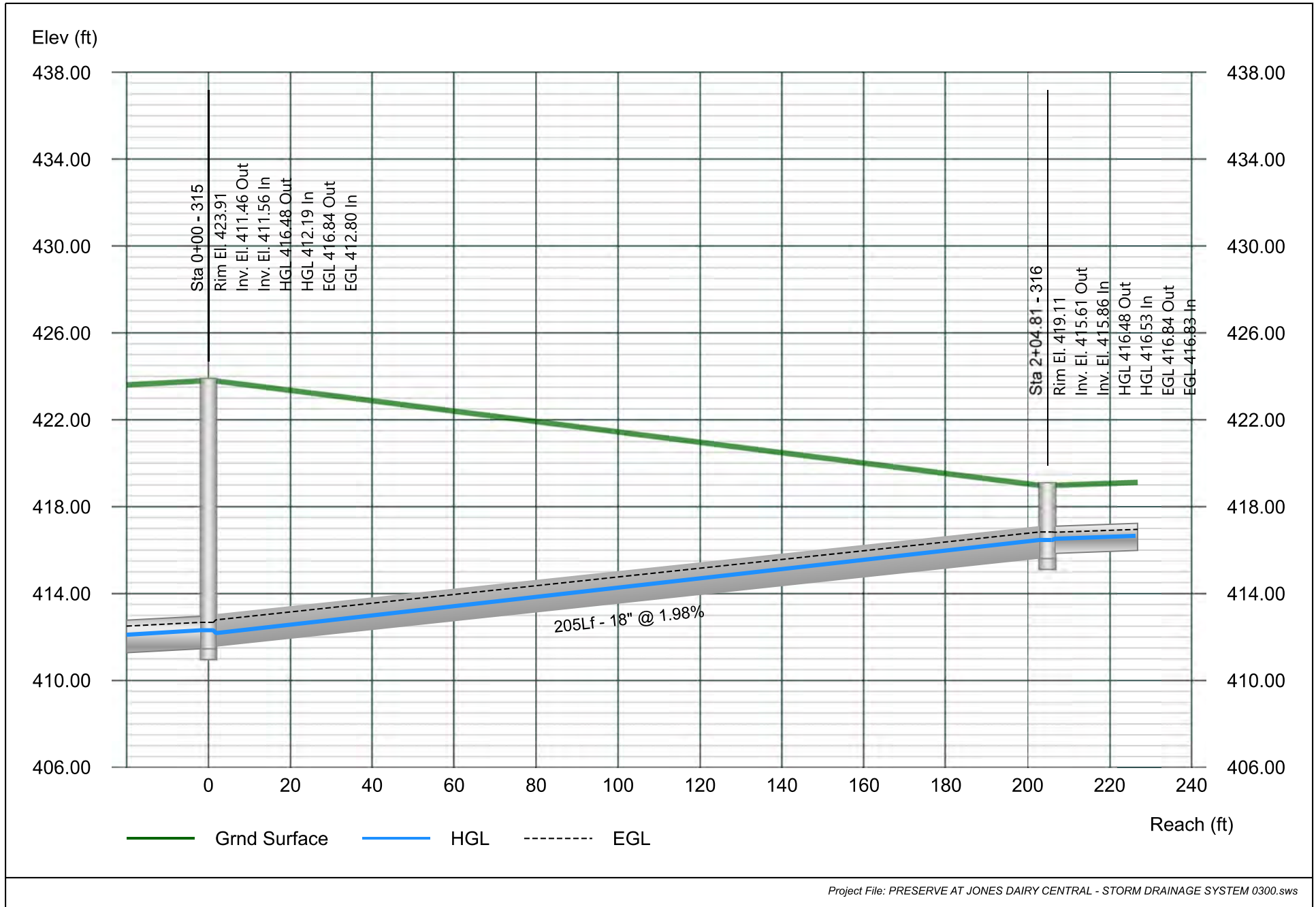
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 52 - 316 TO 315

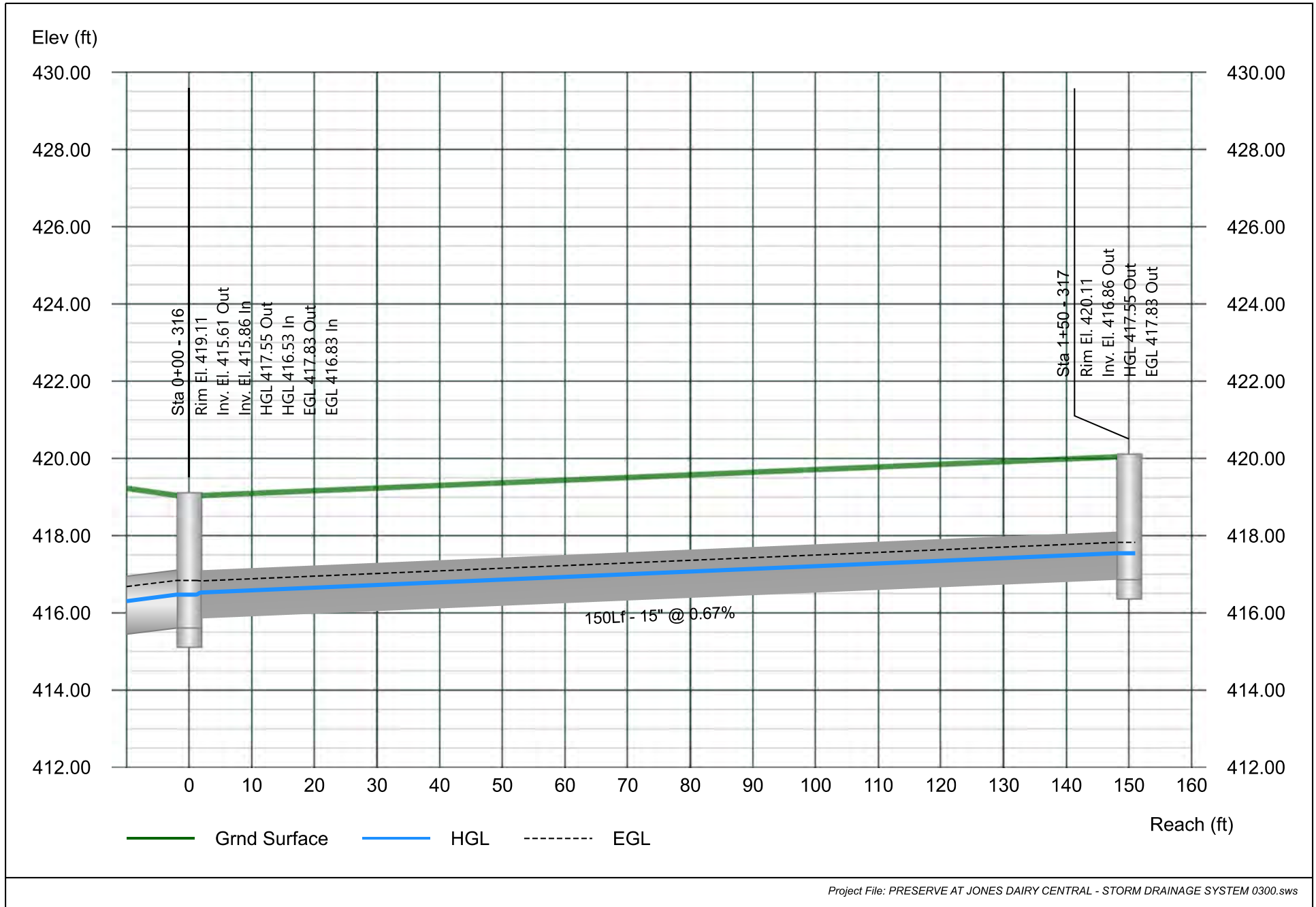


Line 53 - 317 TO 316

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

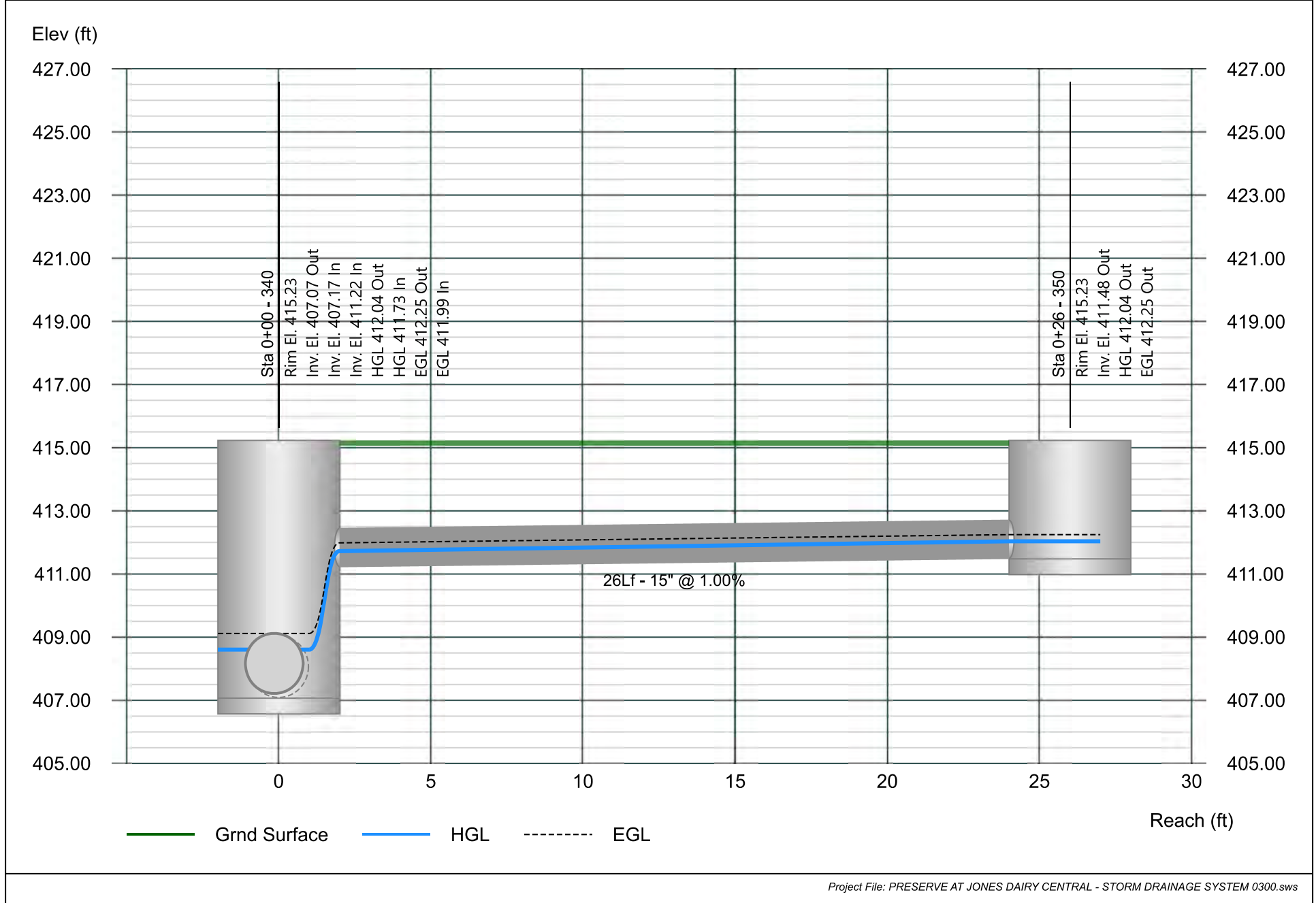


Line 54 - 350 TO 340

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

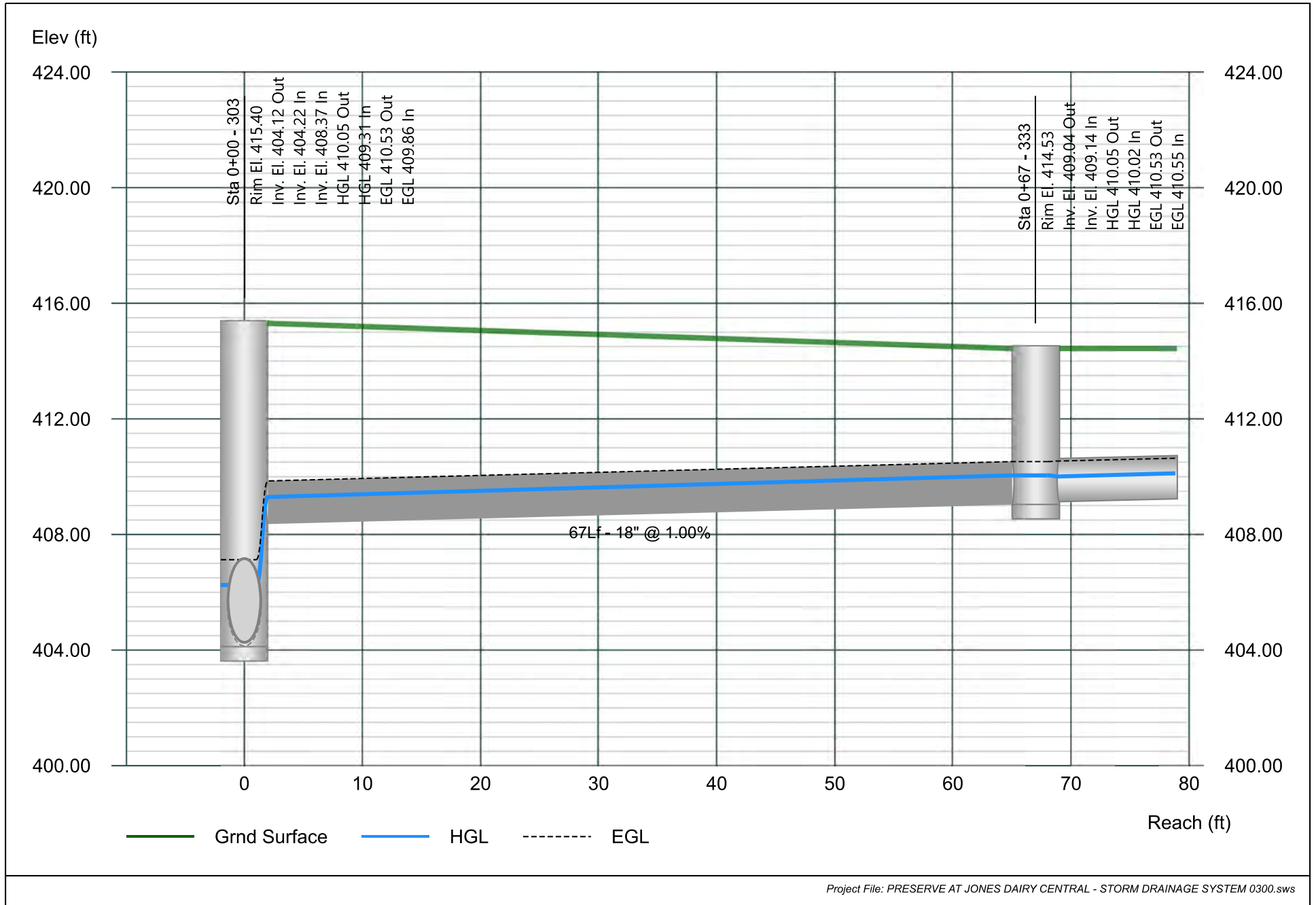


Line 55 - 333 TO 303

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

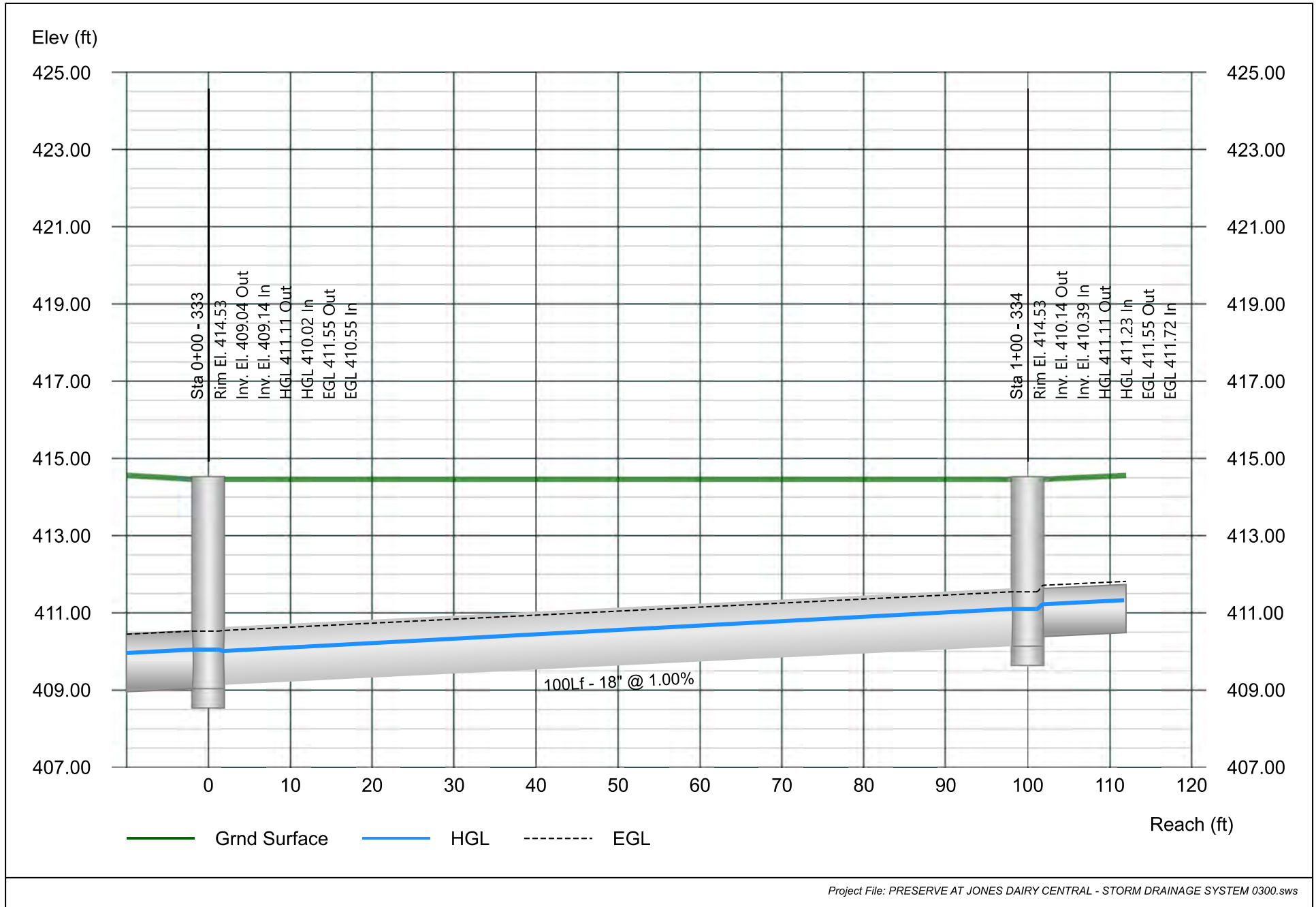


Line 56 - 334 TO 333

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

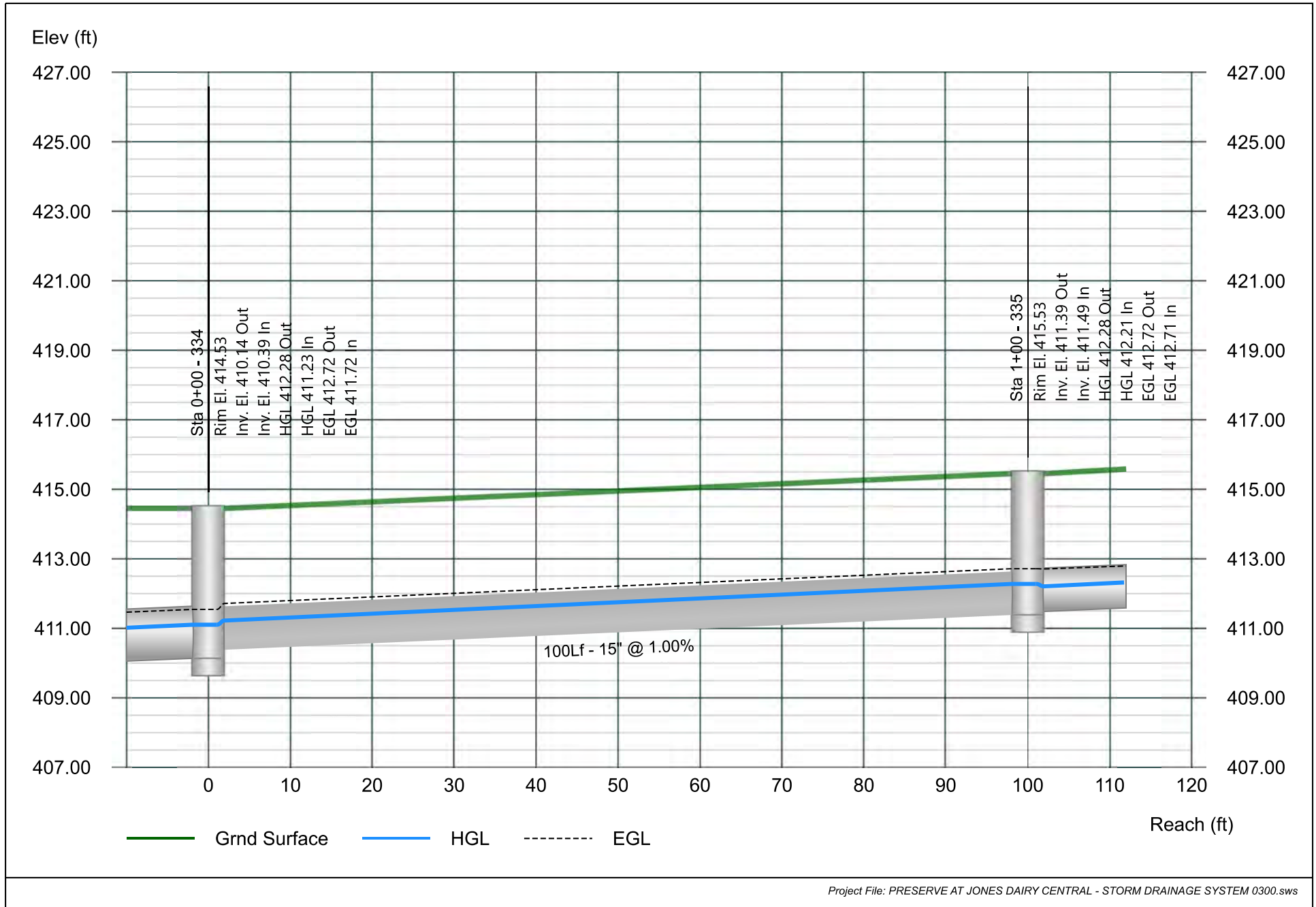


Line 57 - 335 TO 334

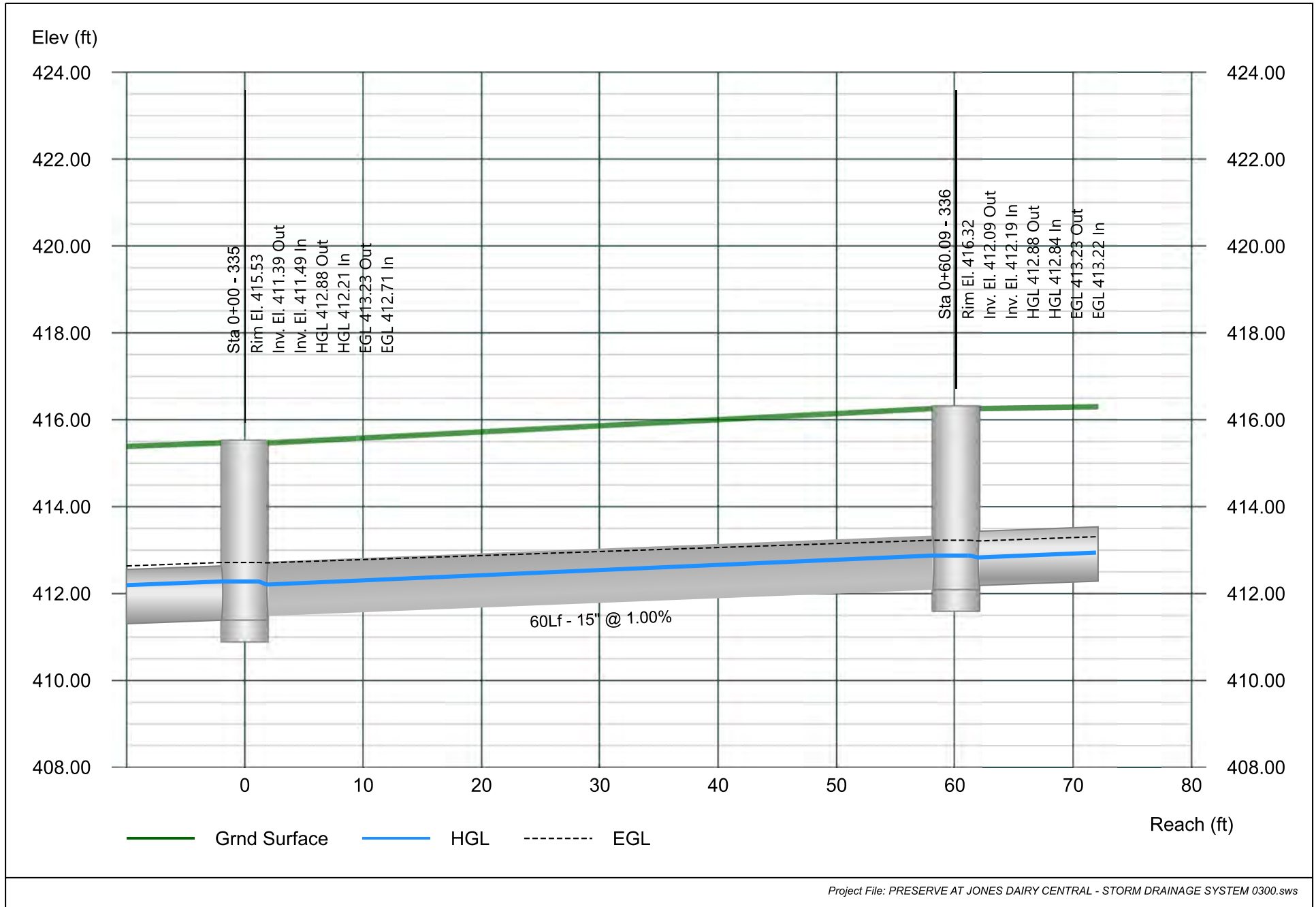
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 58 - 336 TO 335

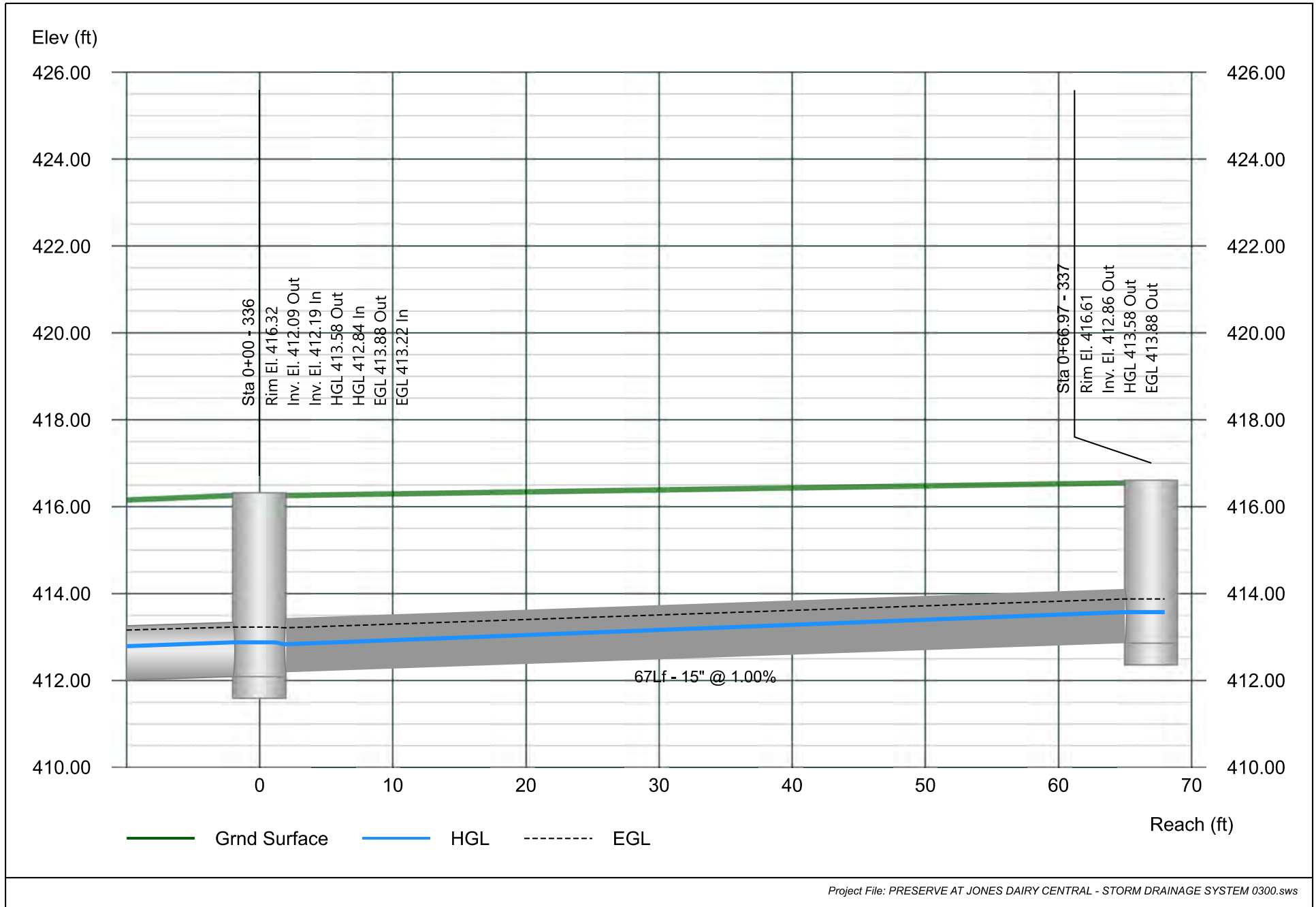


Line 59 - 337 TO 336

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

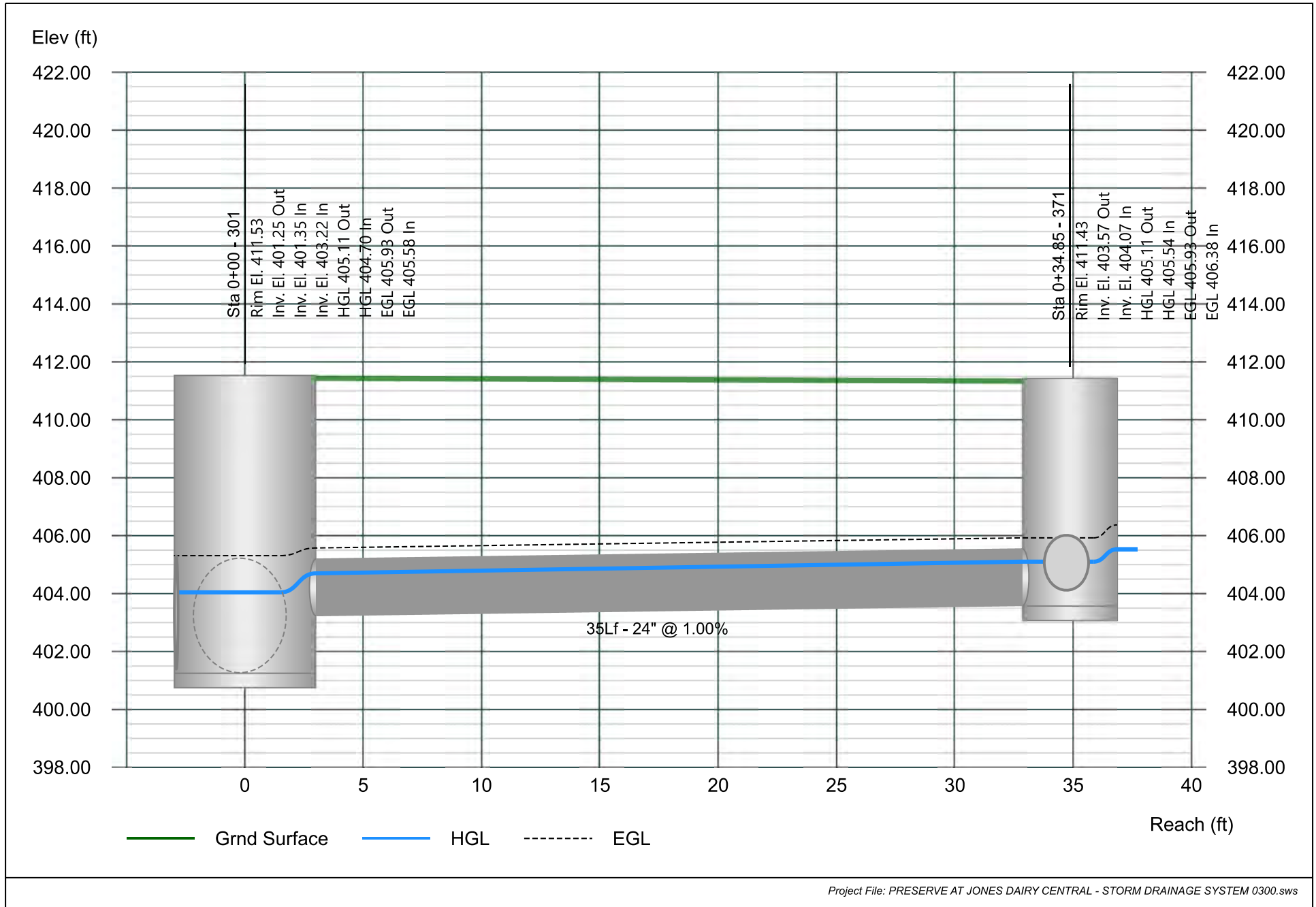


Line 60 - 371 TO 301

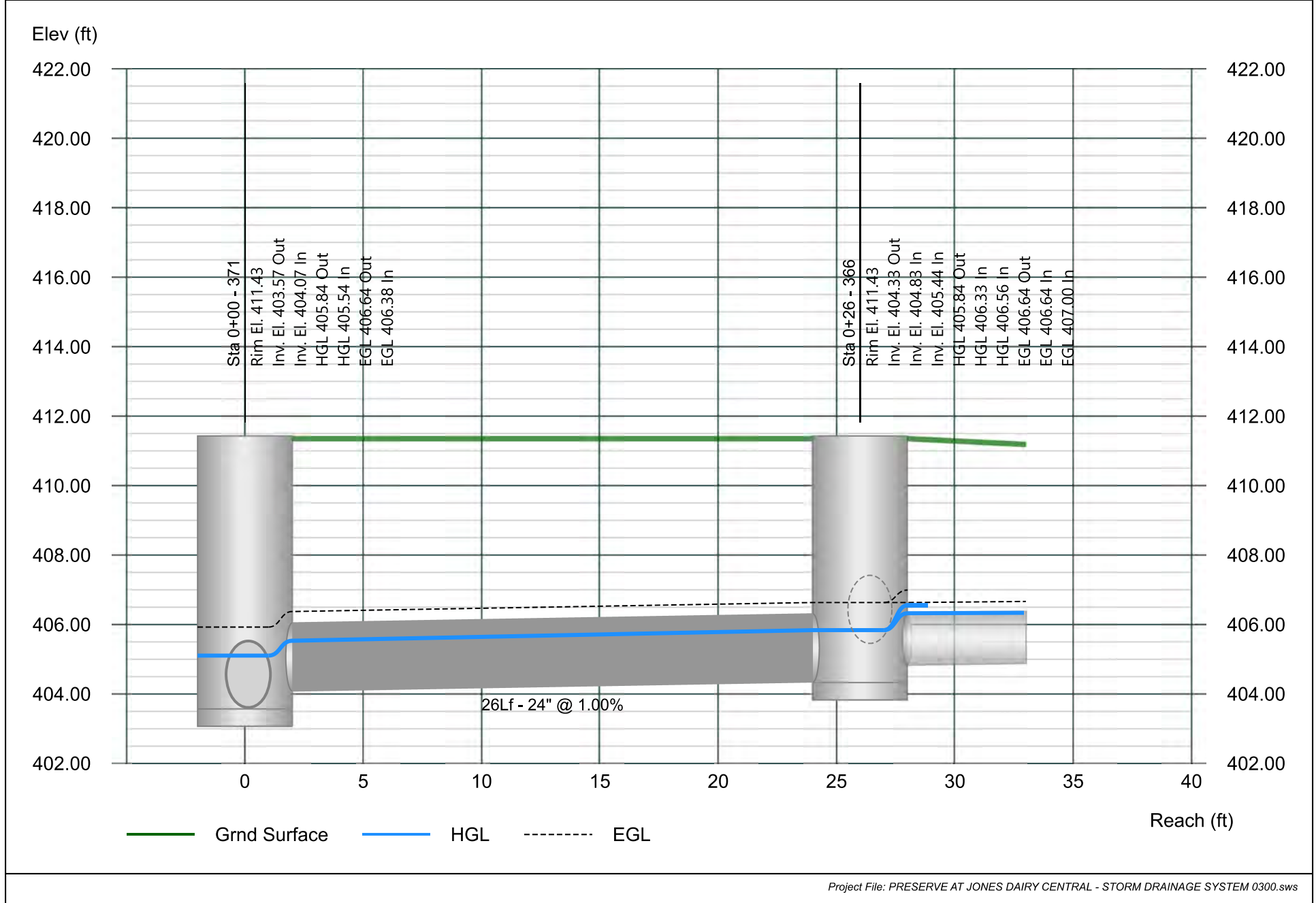
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

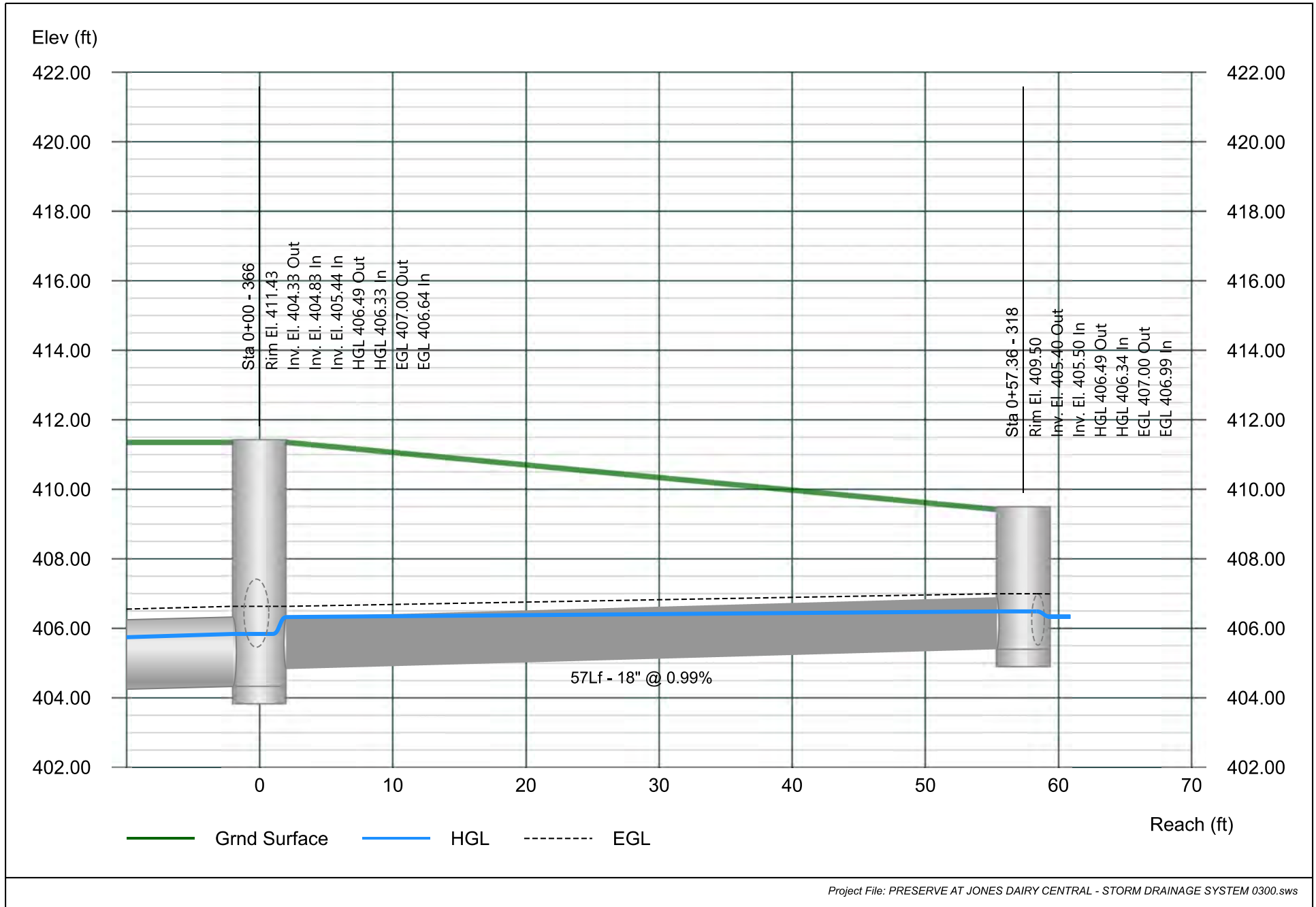
03-01-2024



Line 61 - 366 TO 371



Line 62 - 318 TO 366

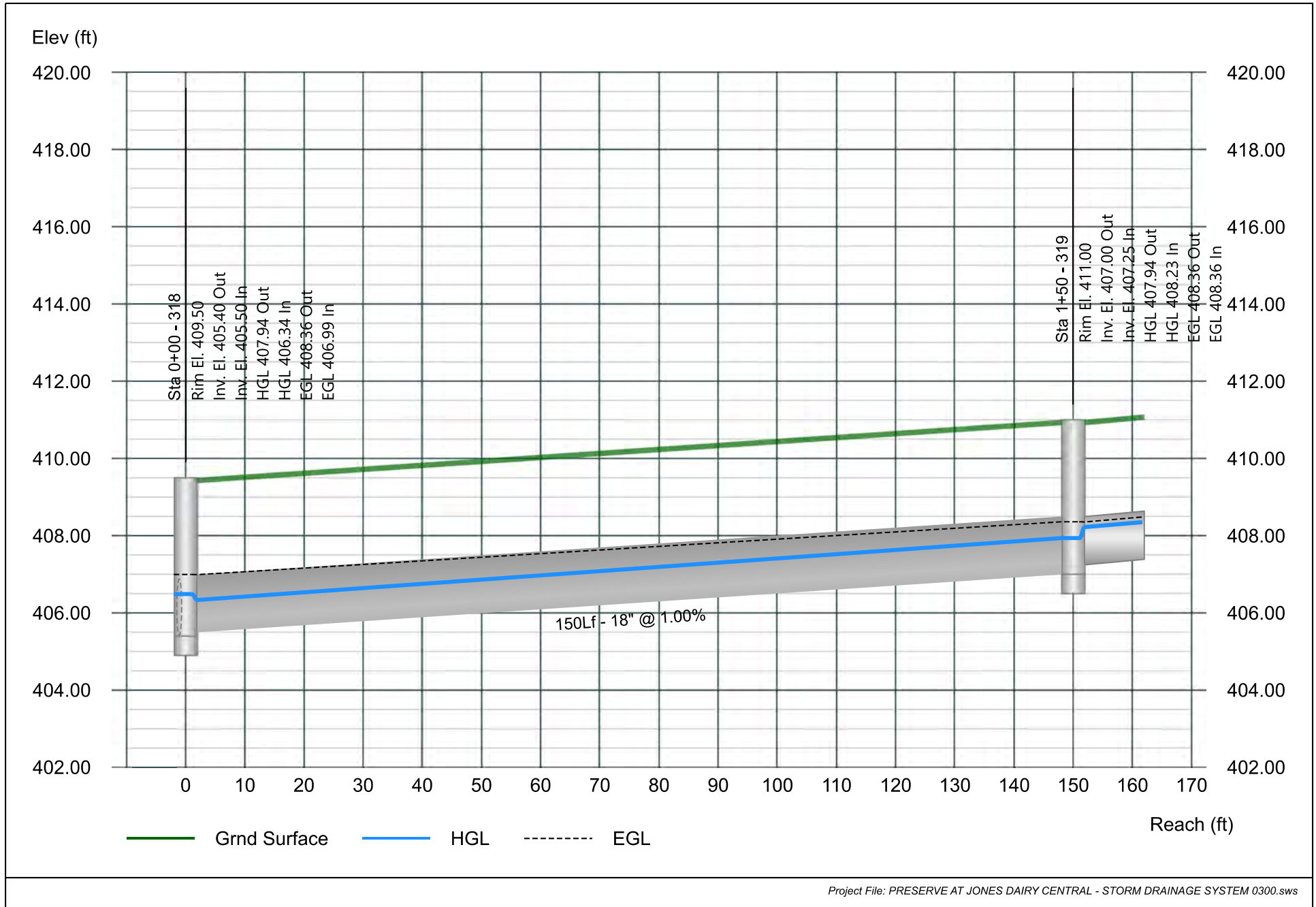


Line 63 - 319 TO 318

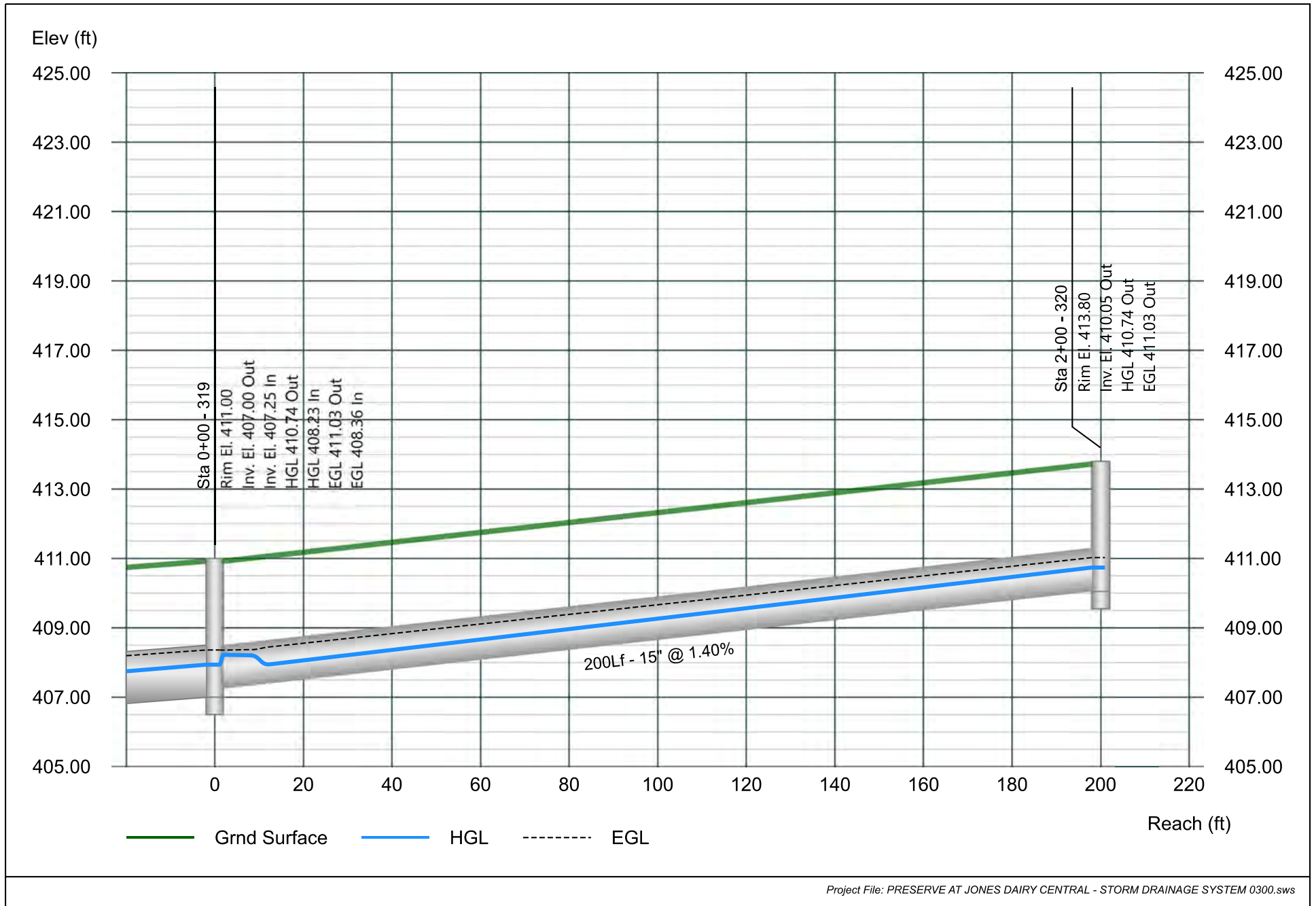
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 64 - 320 TO 319

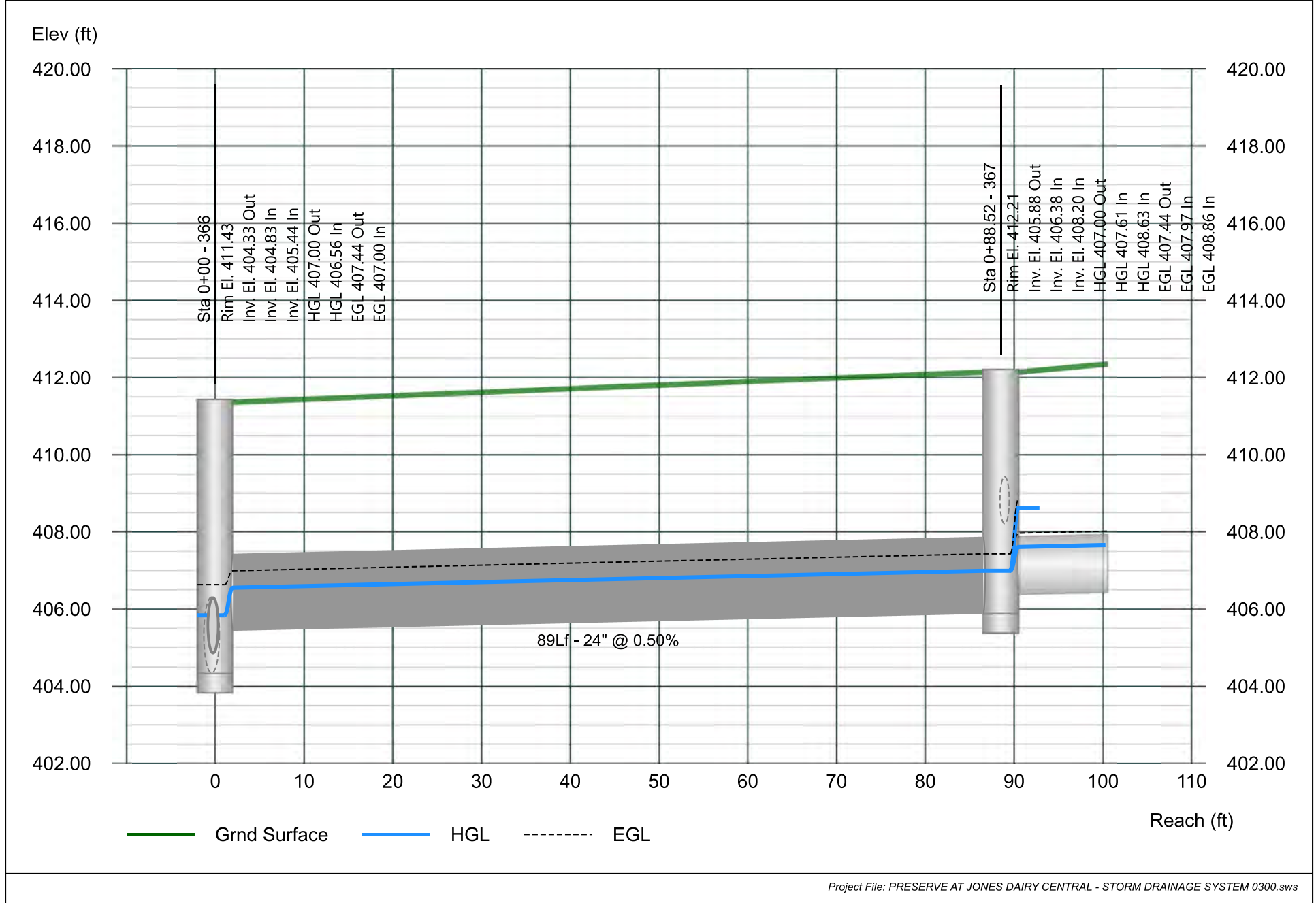


Line 65 - 367 TO 366

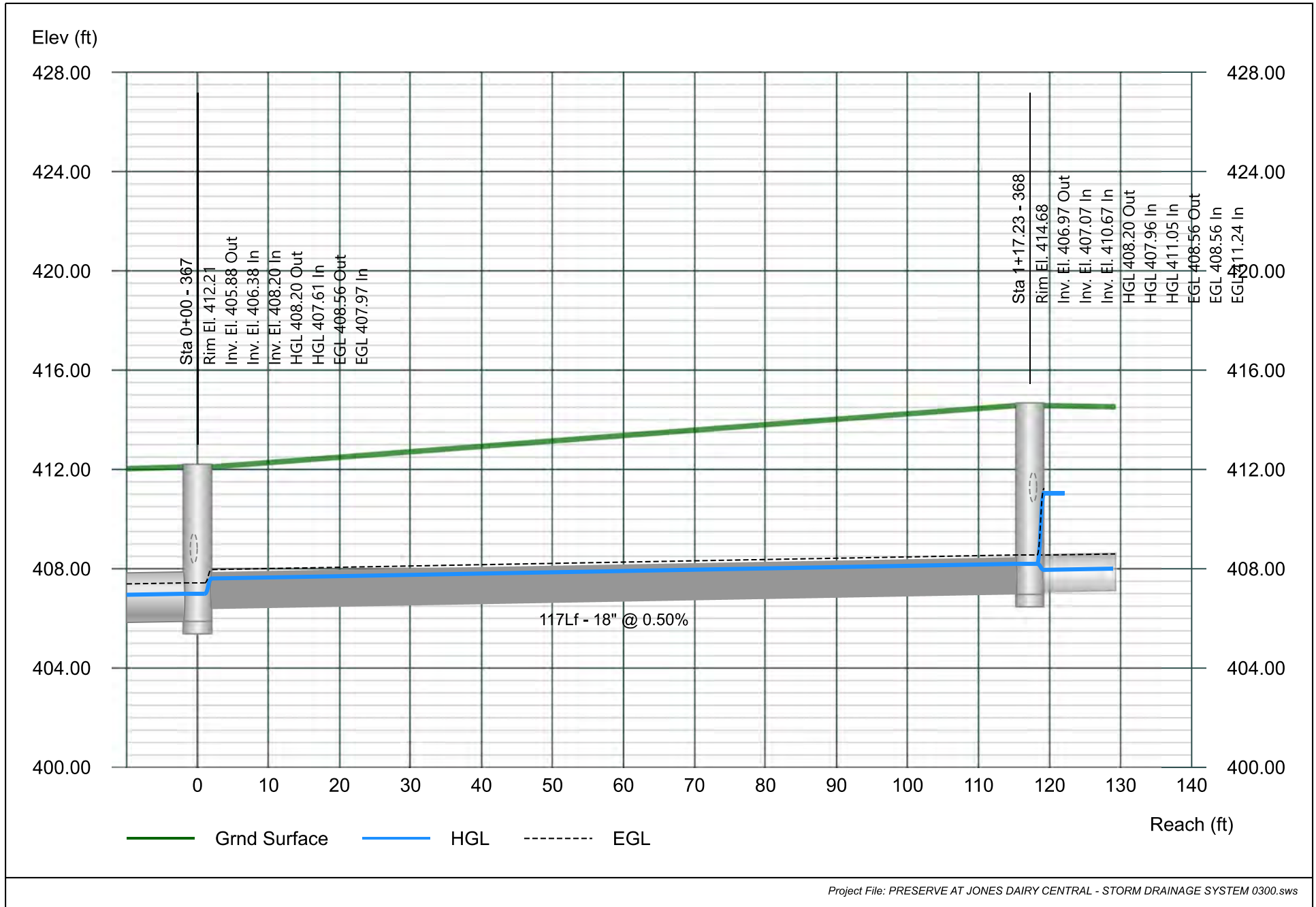
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 66 - 368 TO 367

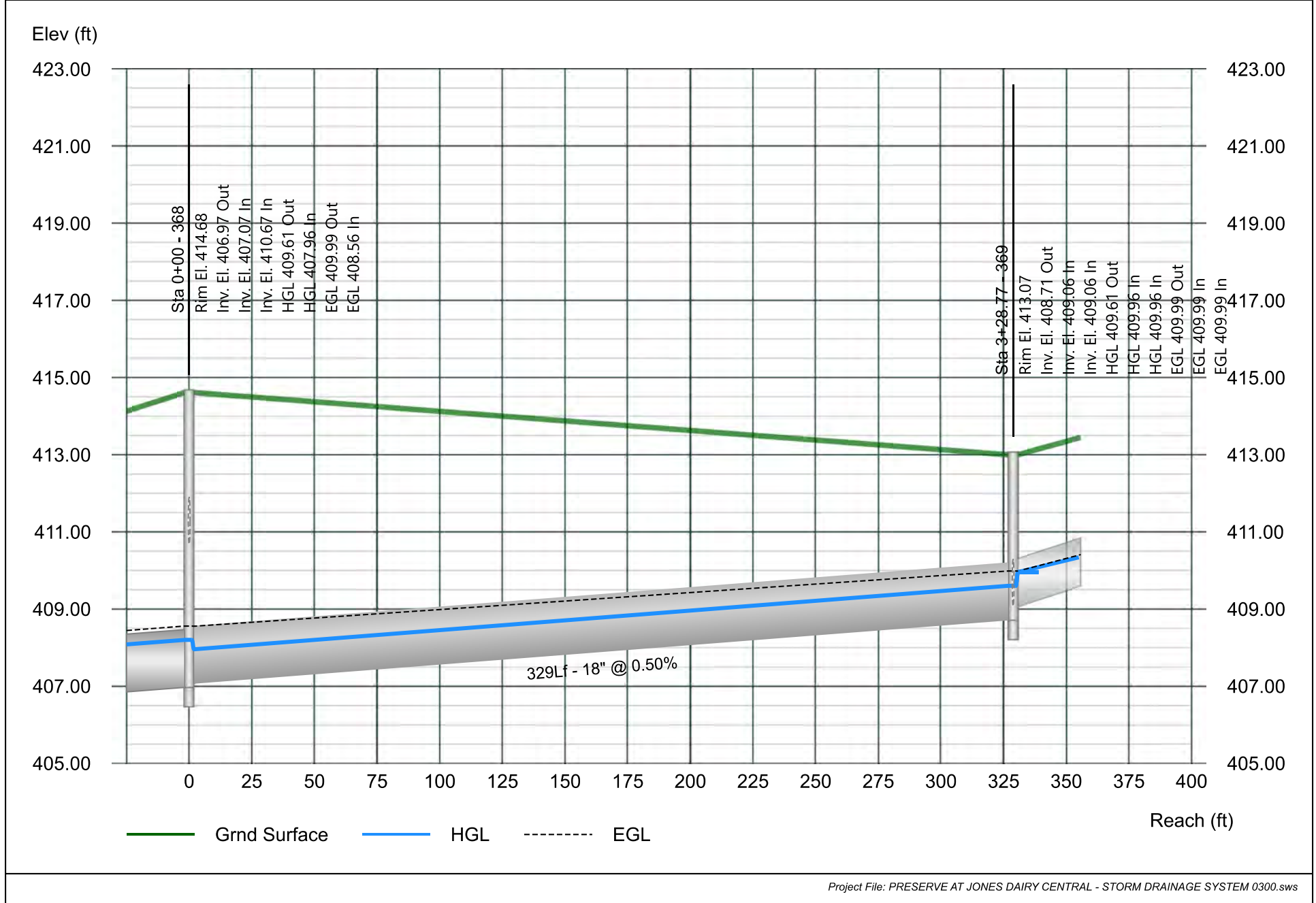


Line 67 - 369 TO 368

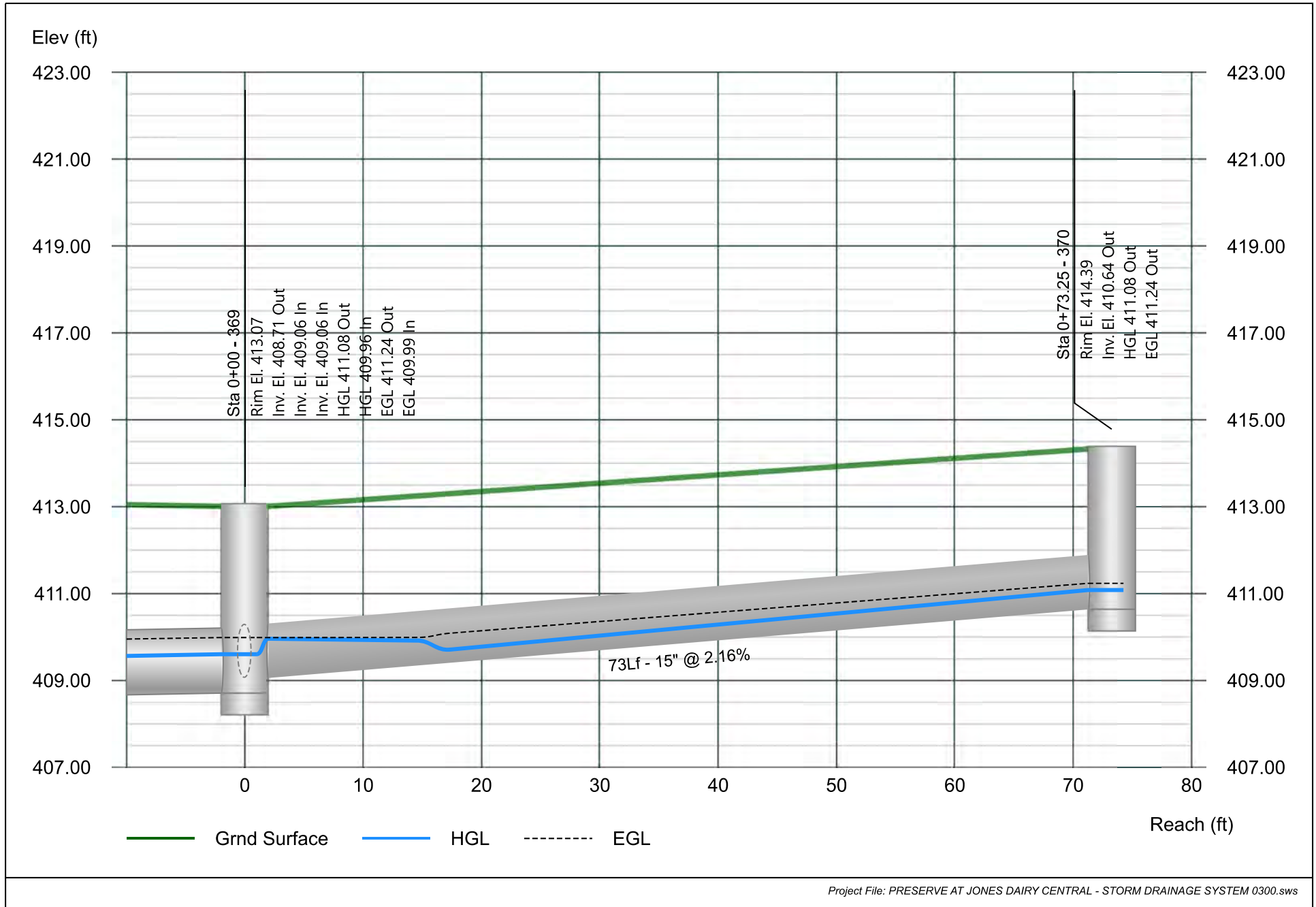
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 68 - 370 TO 369

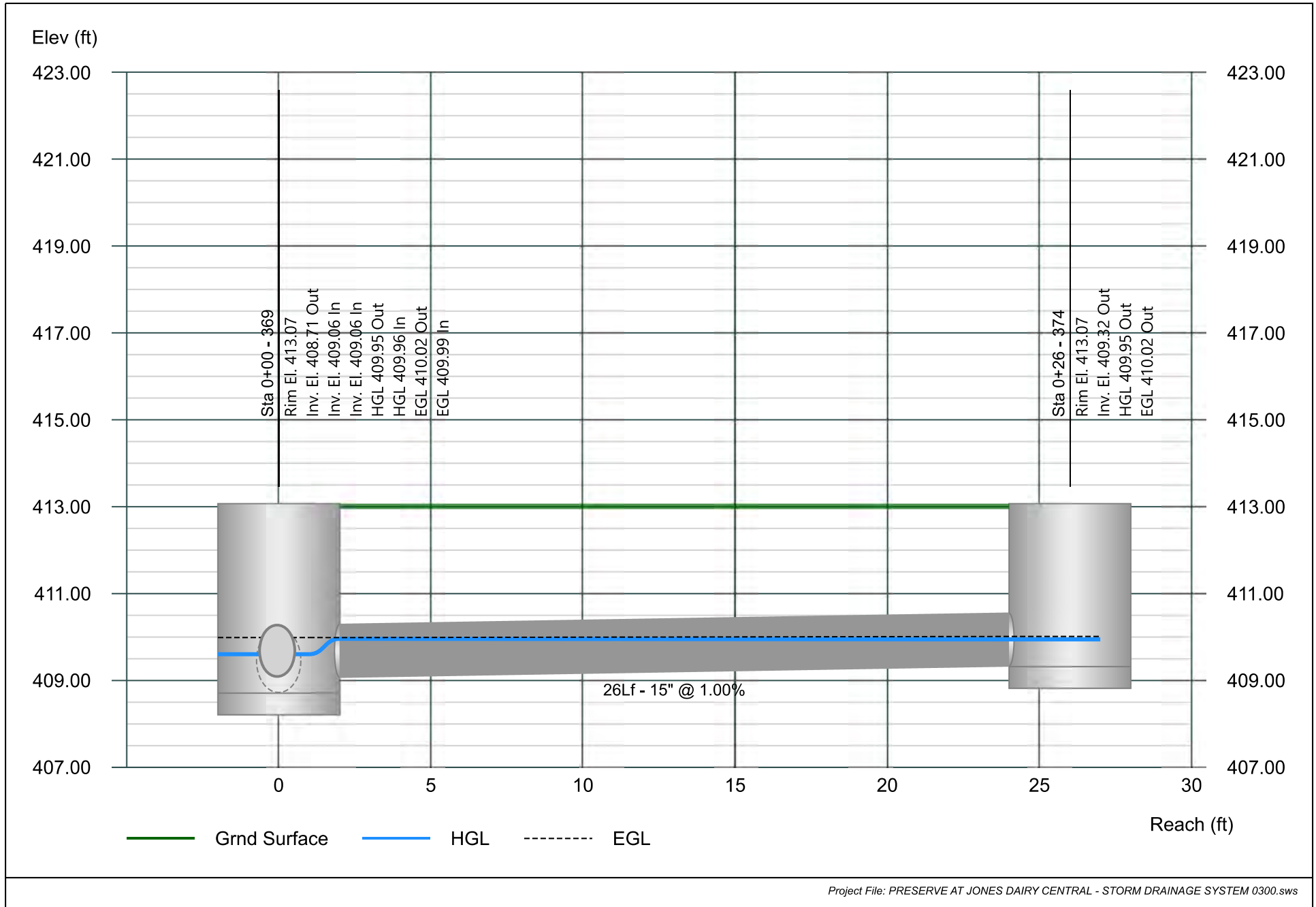


Line 69 - 374 TO 369

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

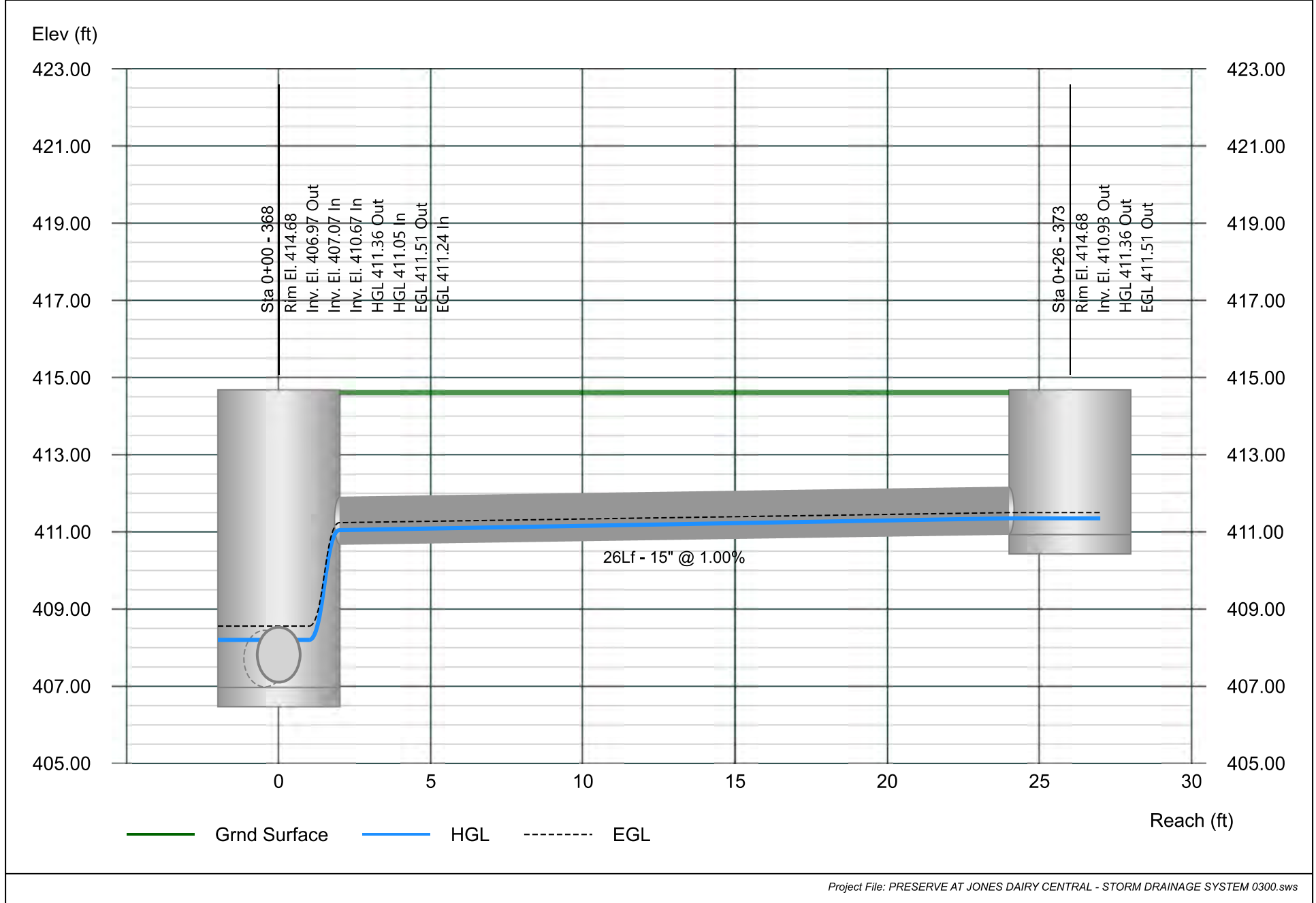


Line 70 - 383 TO 368

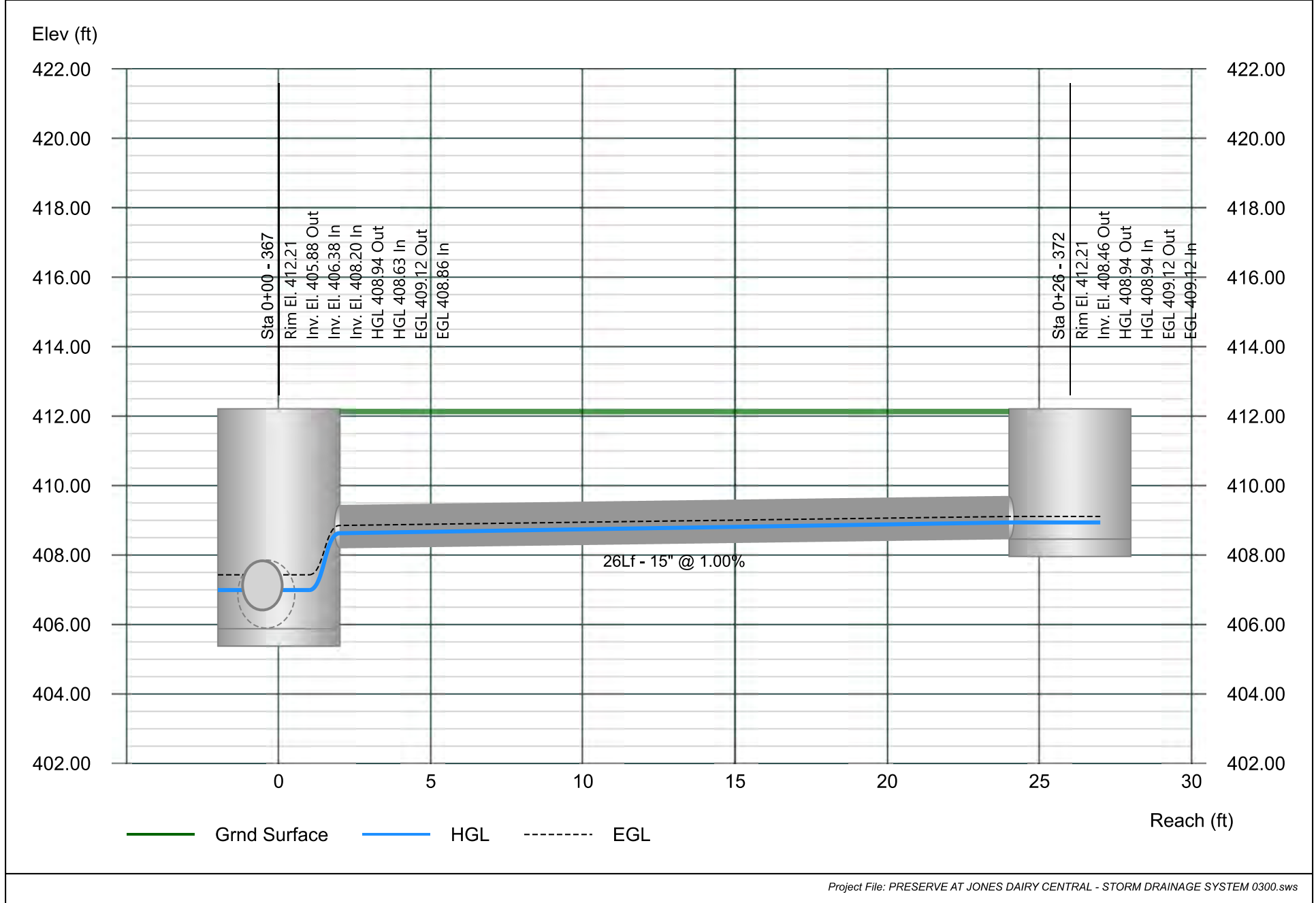
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

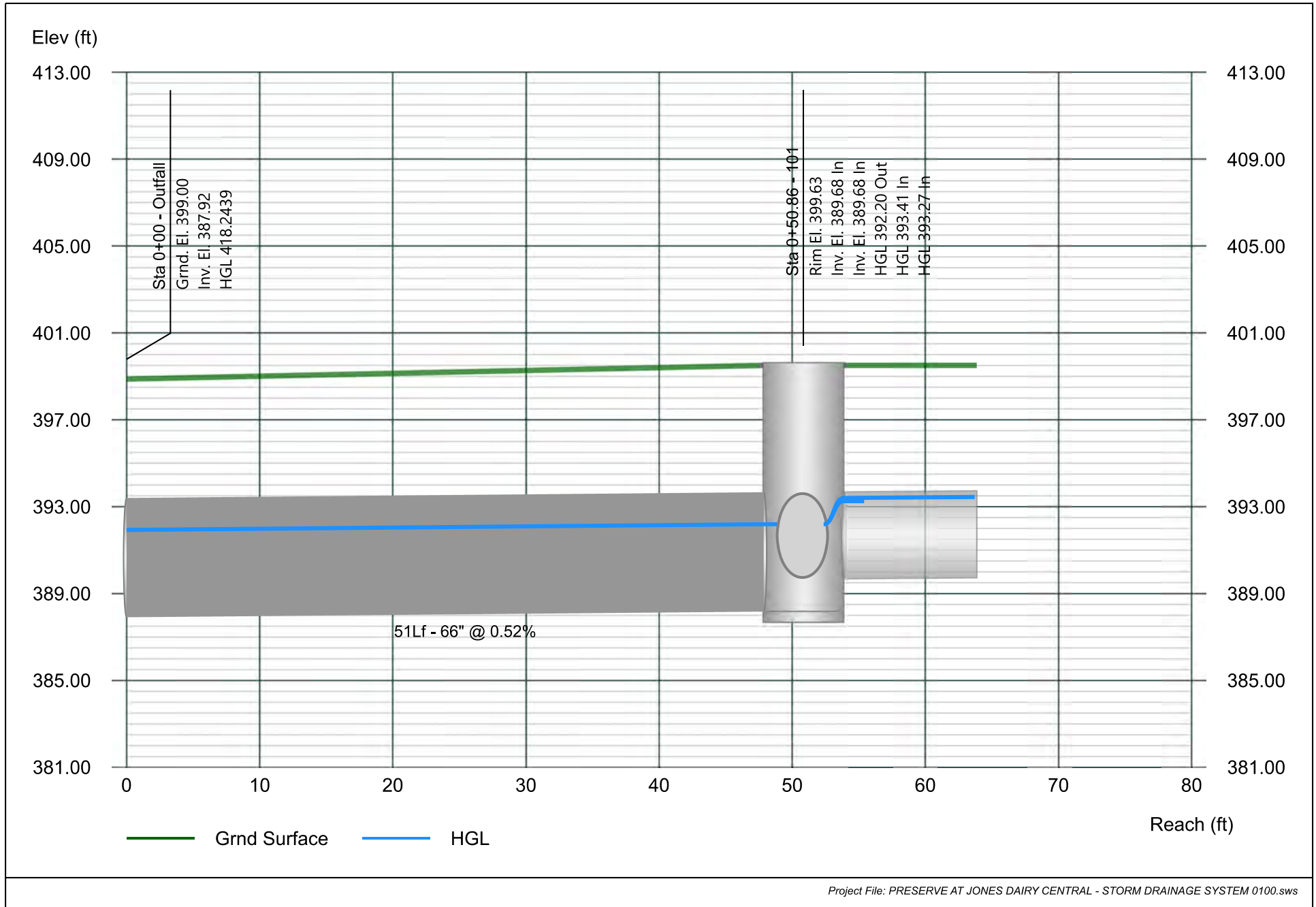


Line 71 - 372 TO 367

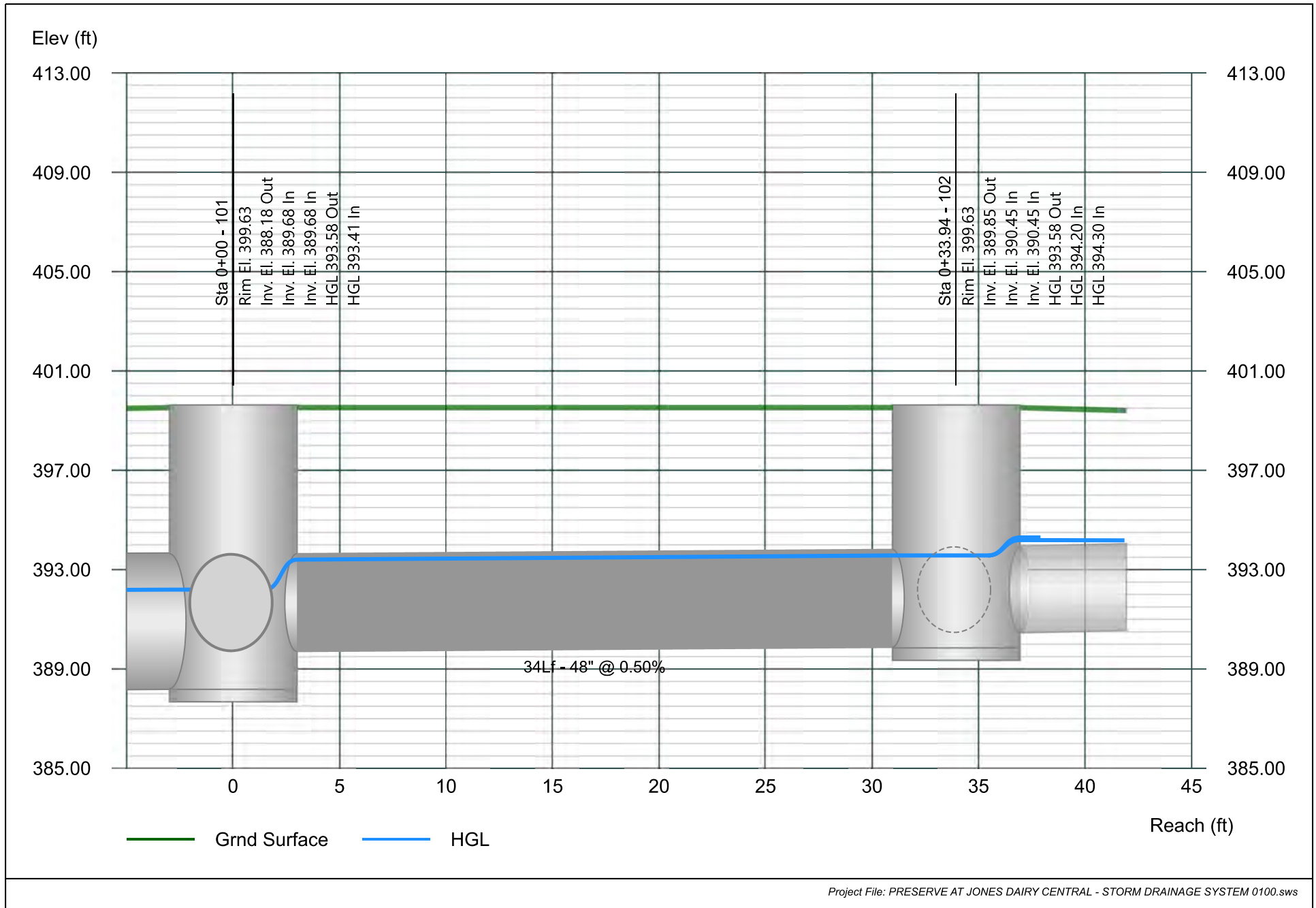


25-YEAR HGL

Line 1 - 101 TO 100



Line 2 - 102 TO 101

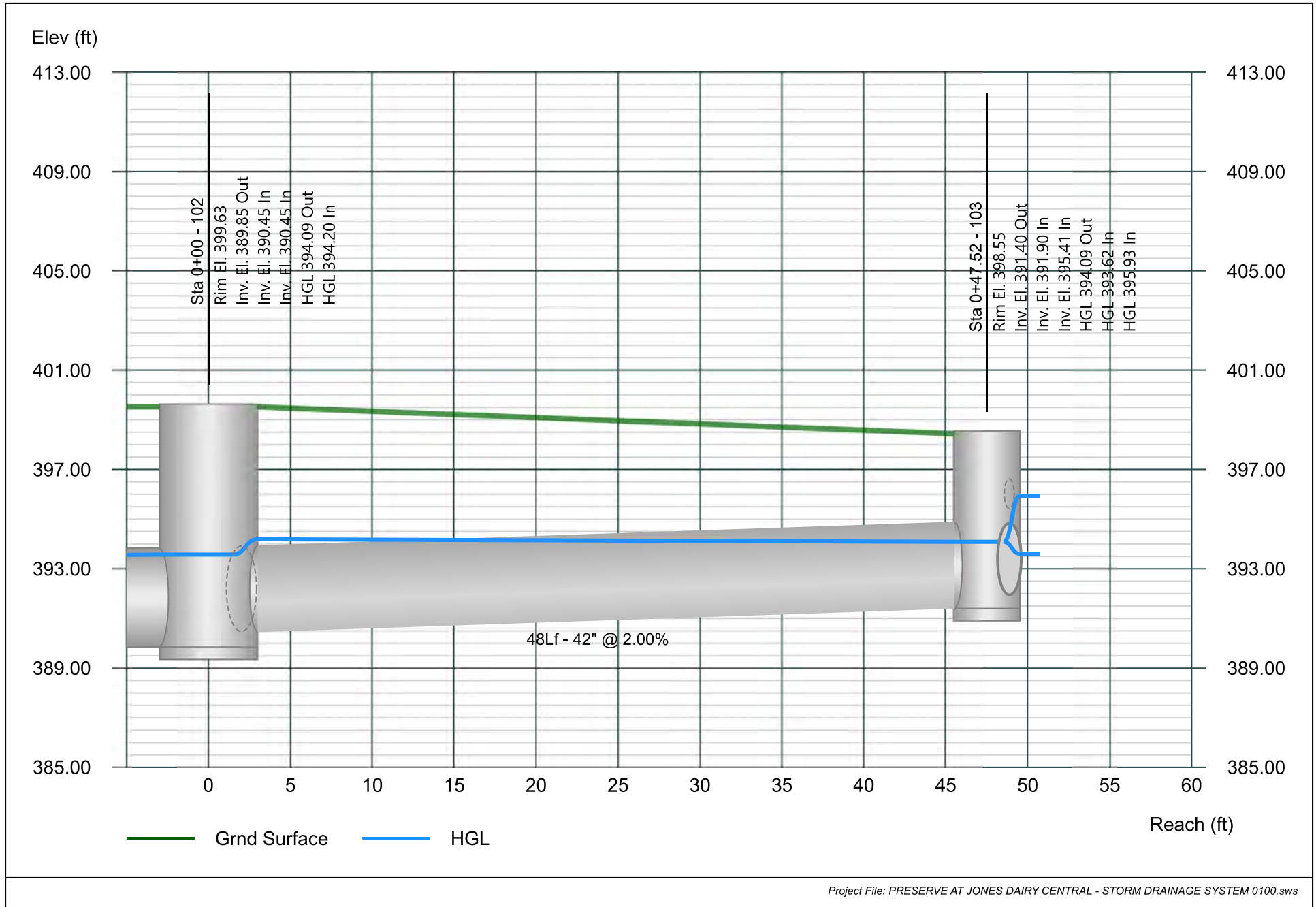


Line 3 - 103 TO 102

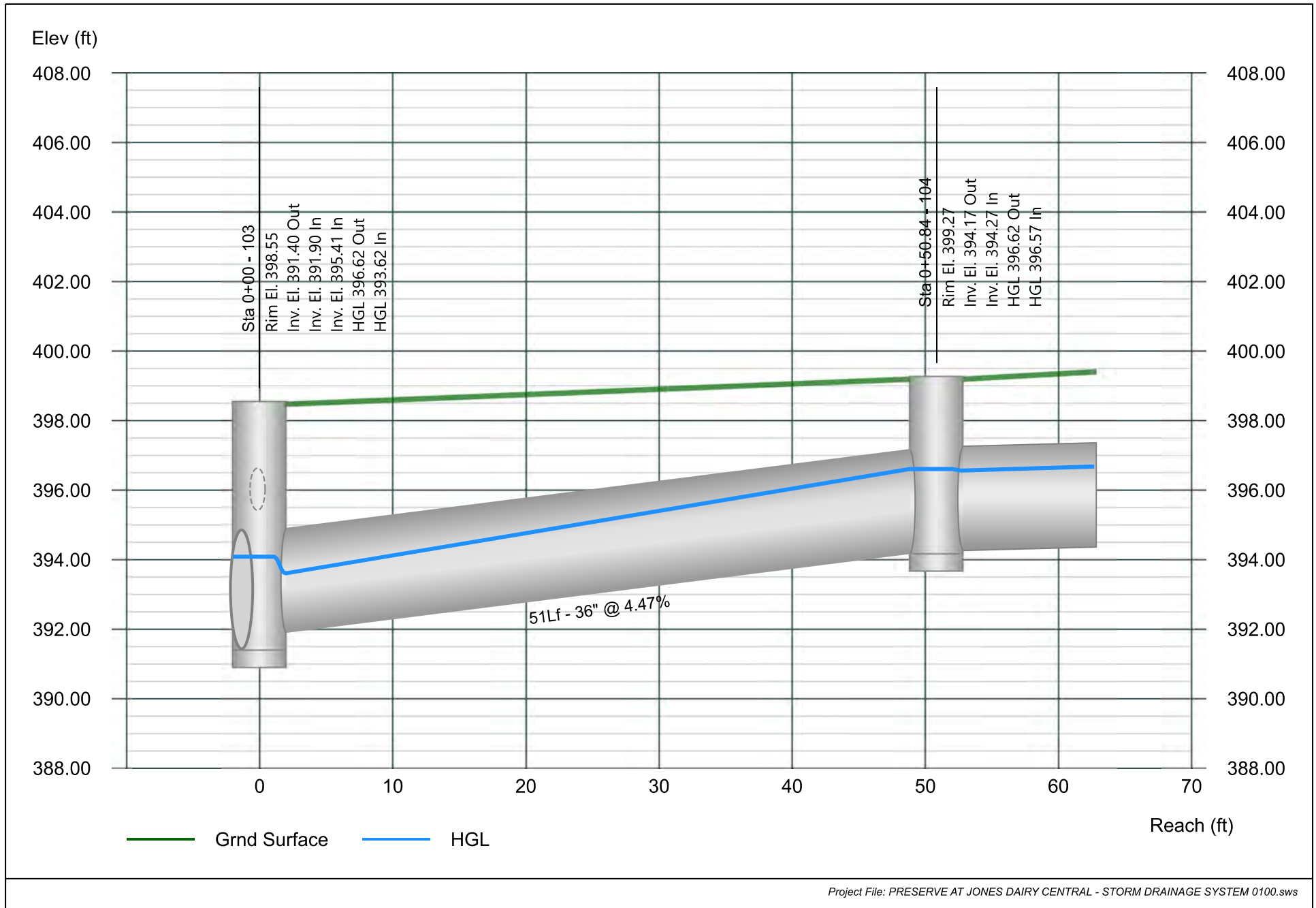
Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



Line 4 - 104 TO 103

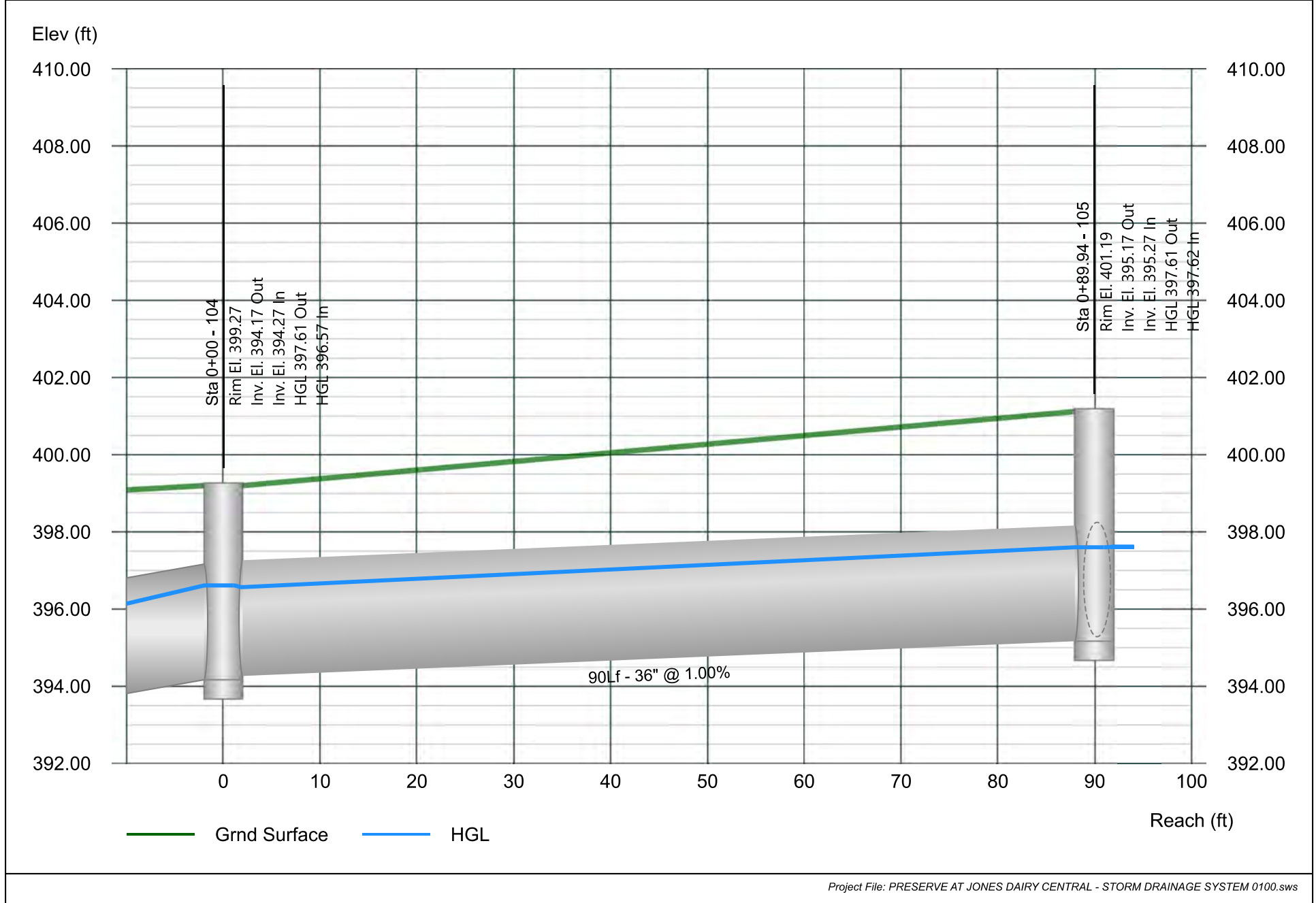


Line 5 - 105 TO 104

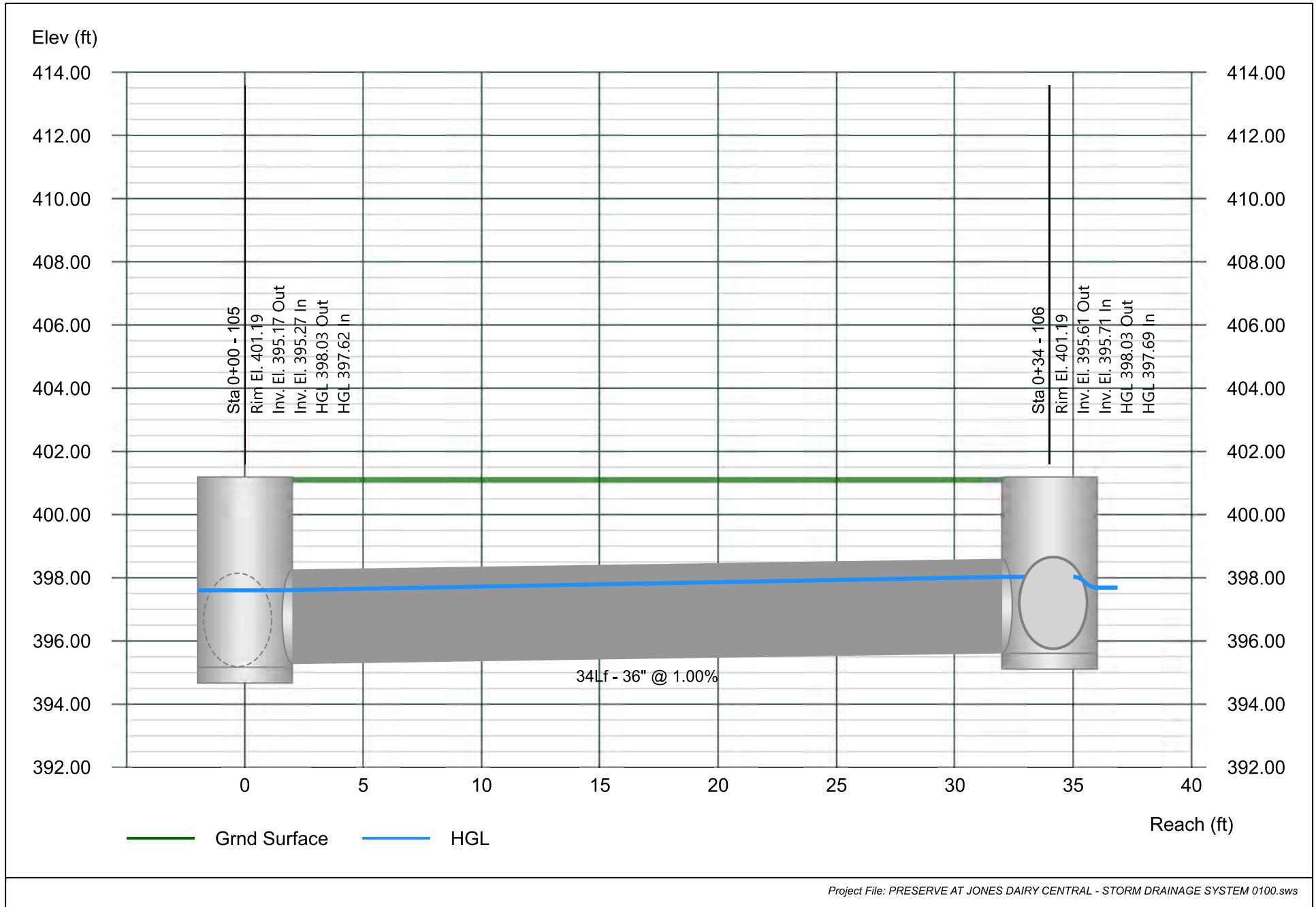
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

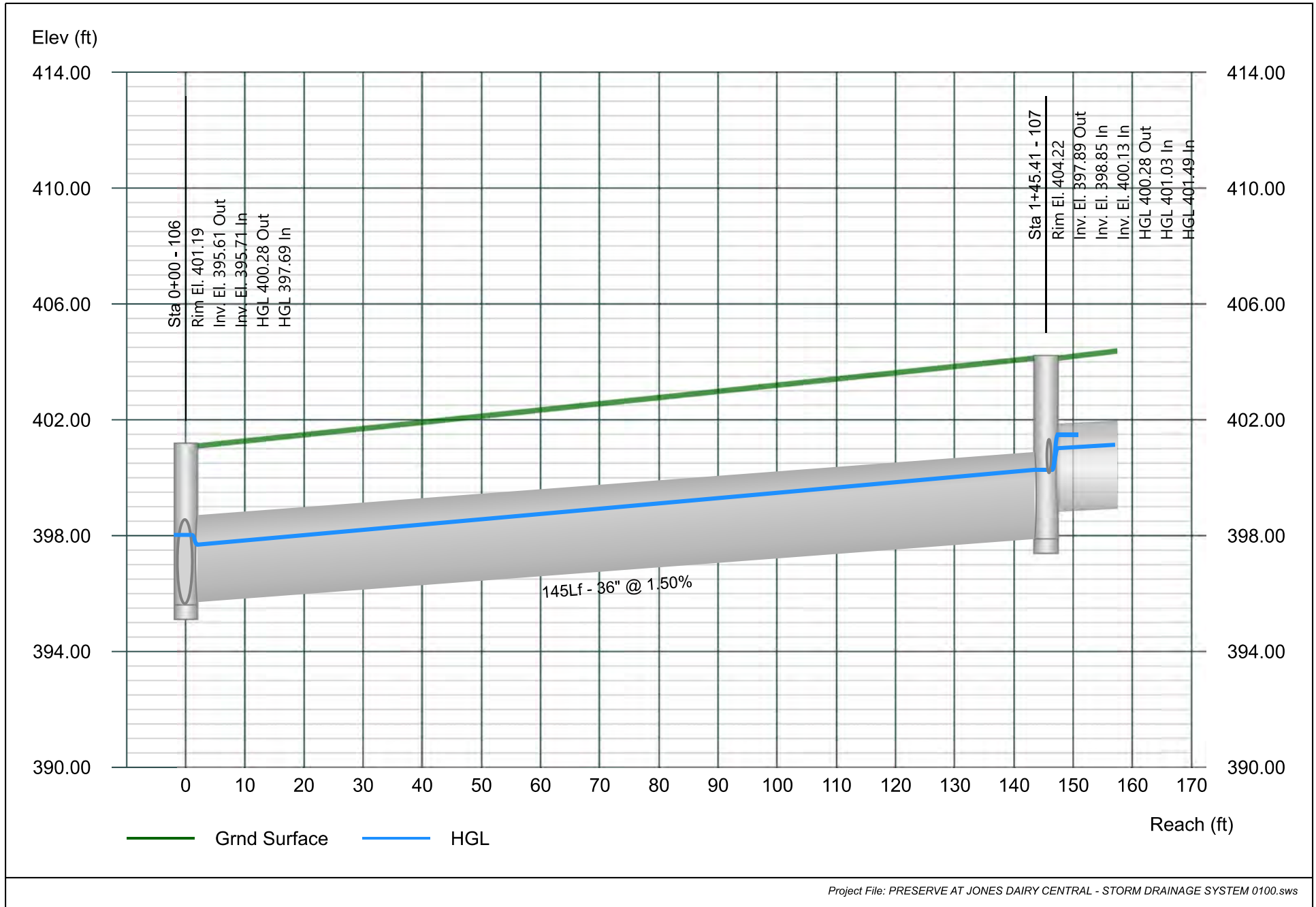
01-19-2024



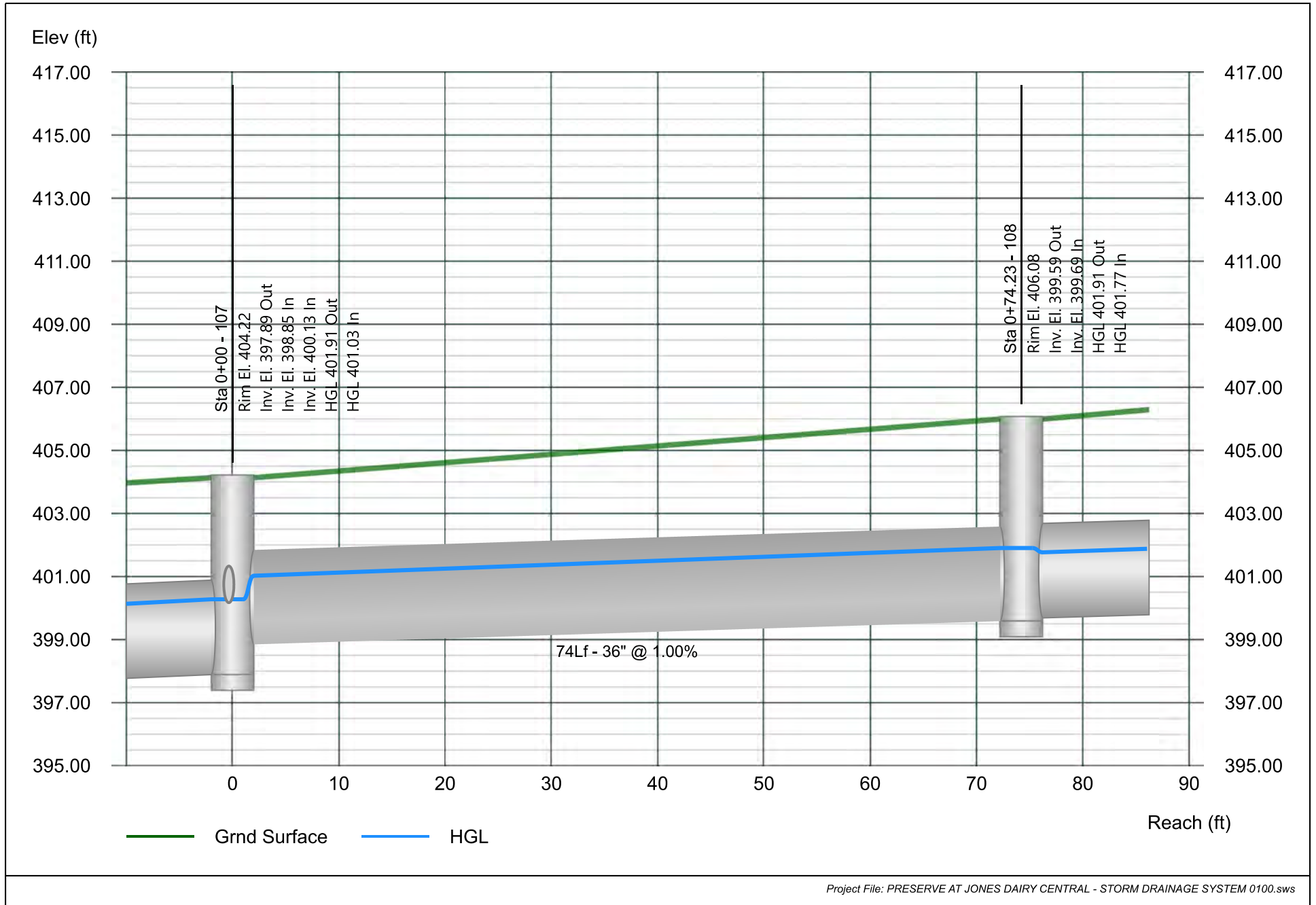
Line 6 - 106 TO 105



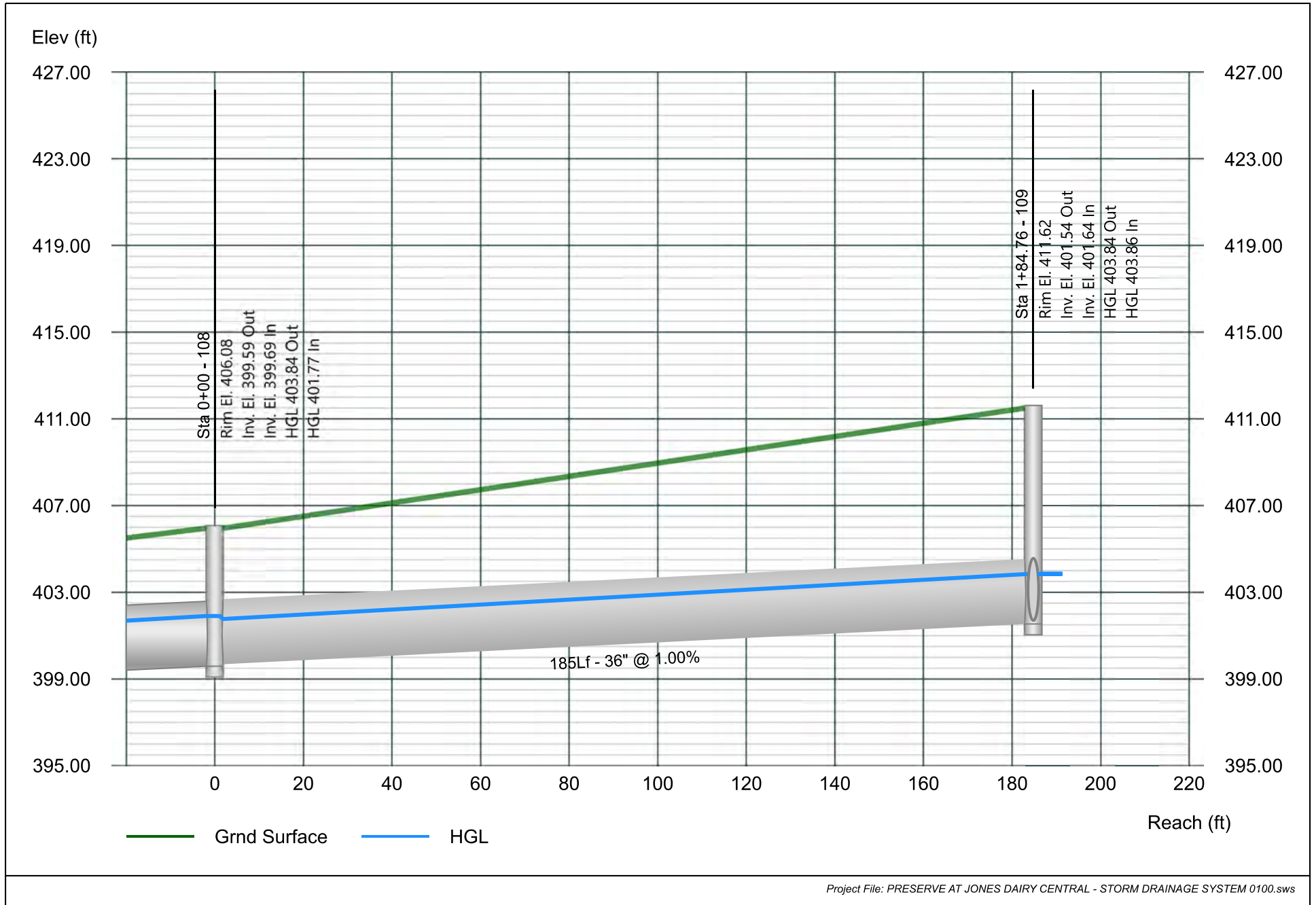
Line 7 - 107 TO 106



Line 8 - 108 TO 107



Line 9 - 109 TO 108

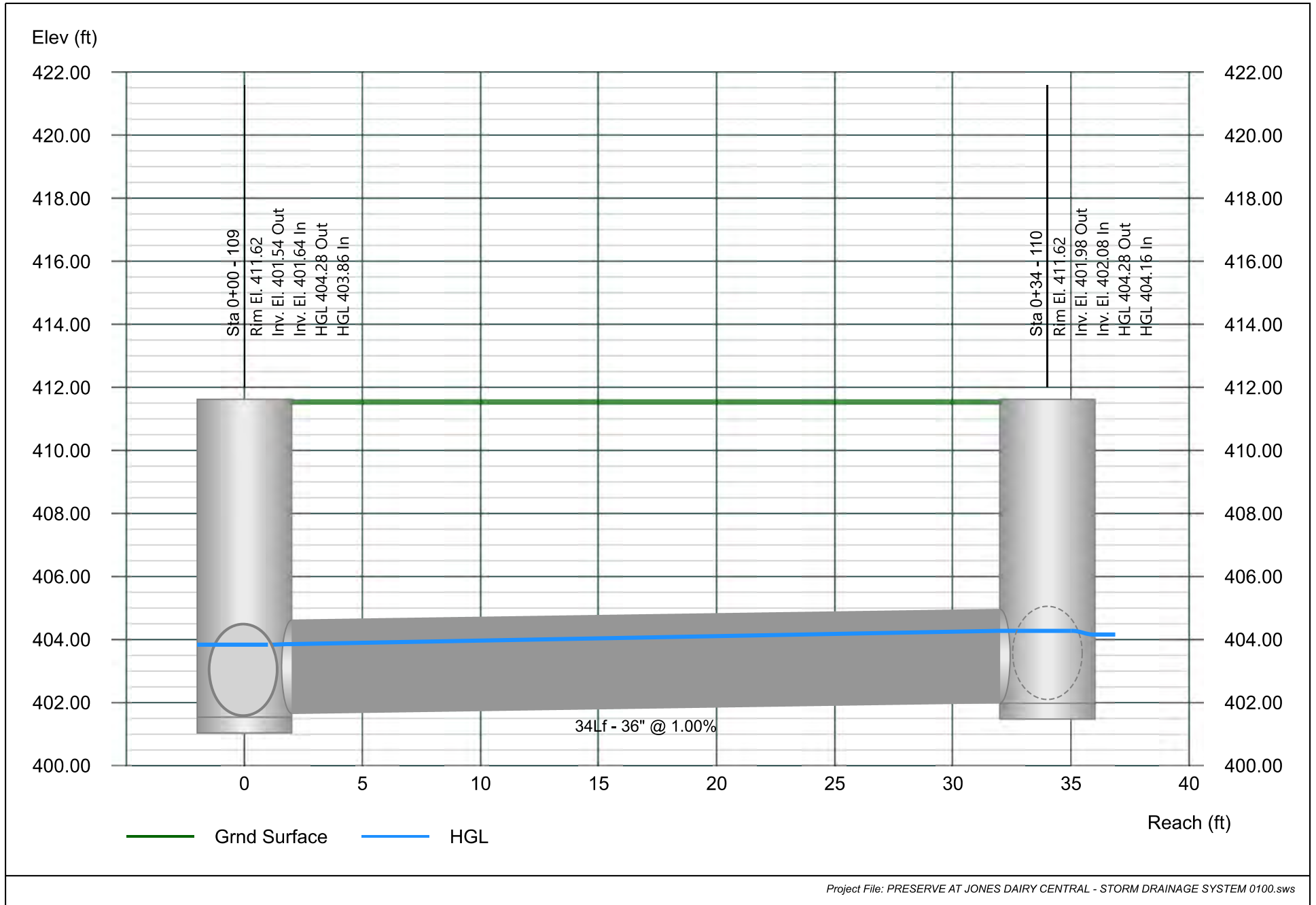


Line 10 - 110 TO 109

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

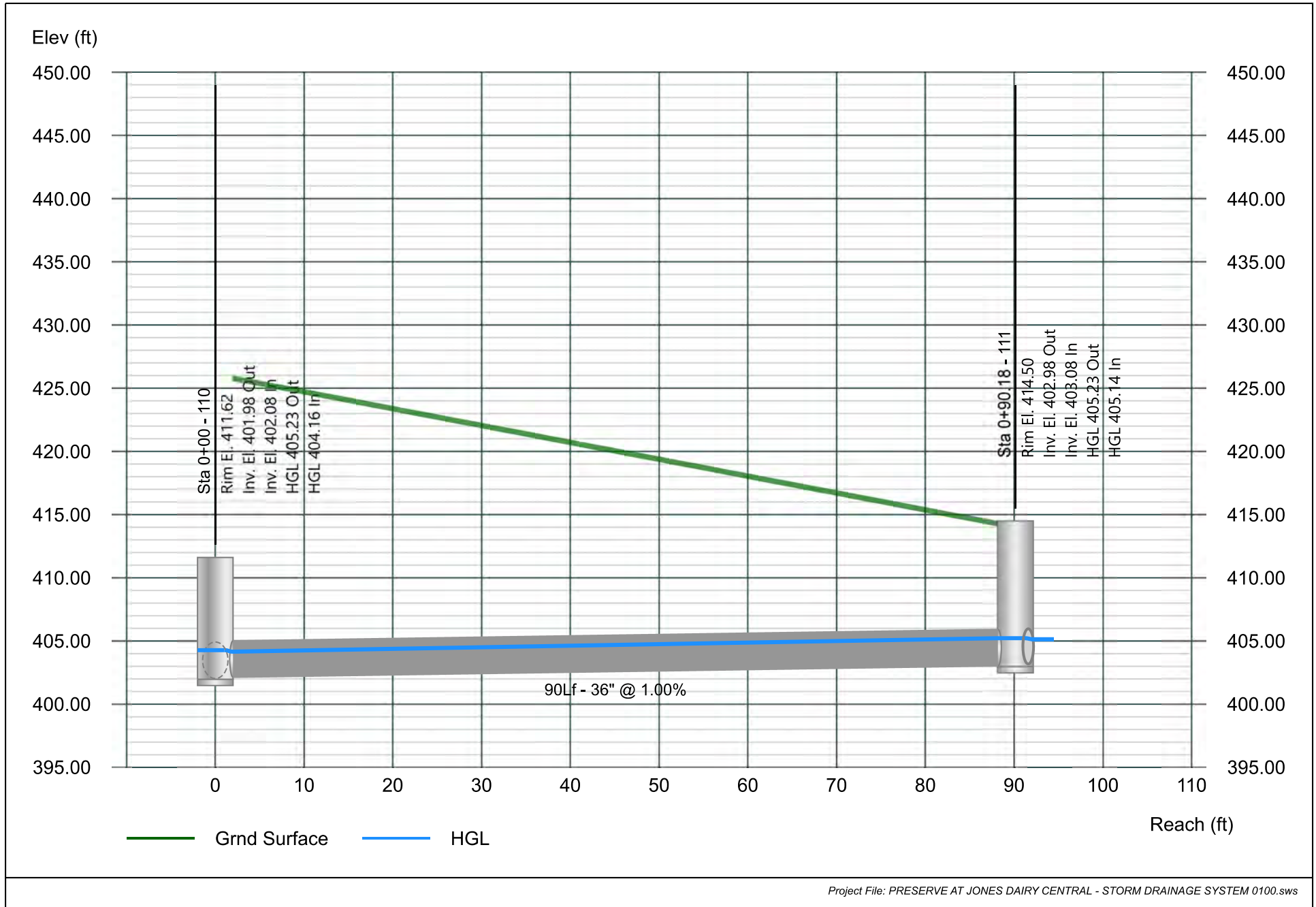


Line 11 - 111 TO 110

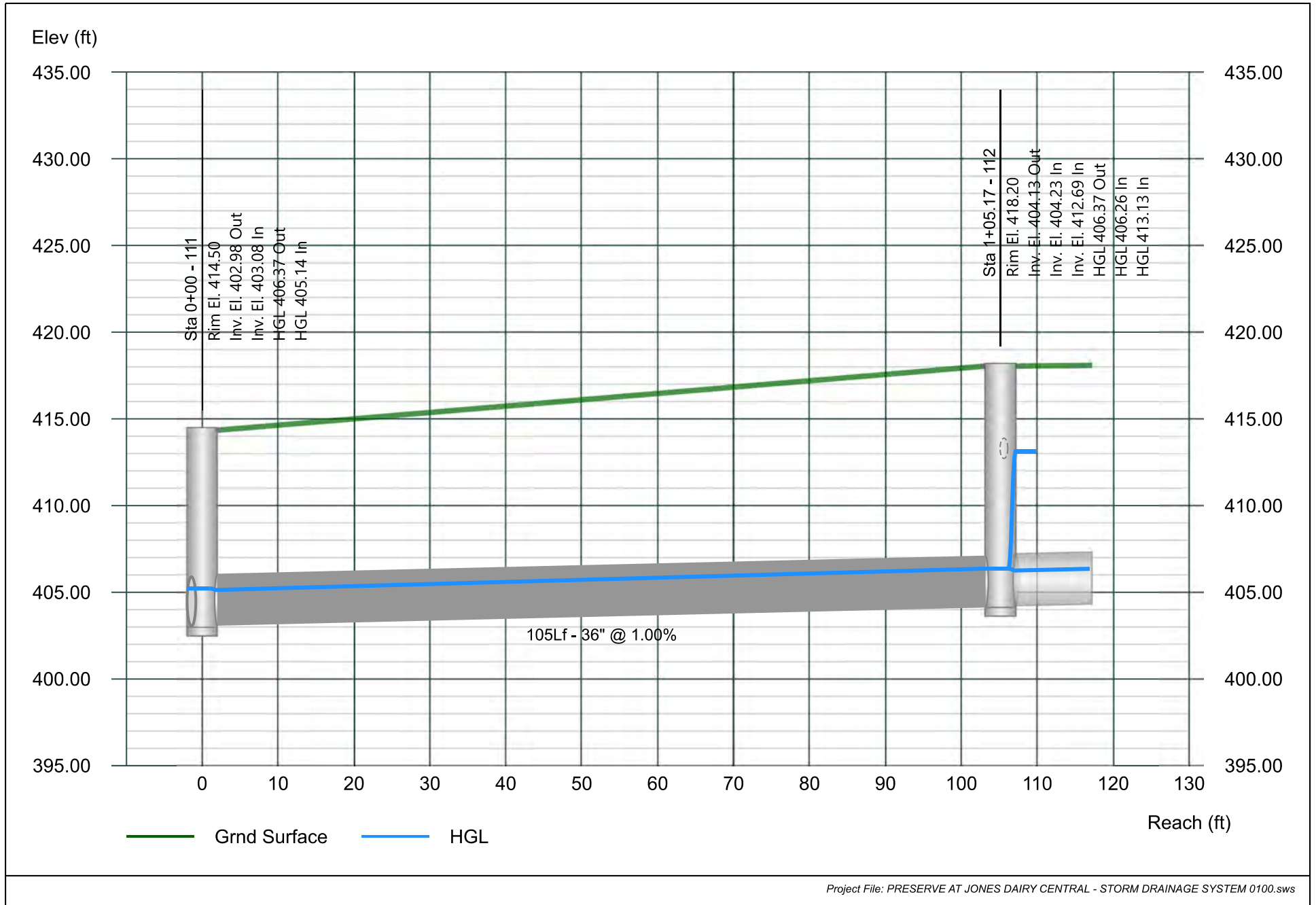
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 12 - 112 TO 111

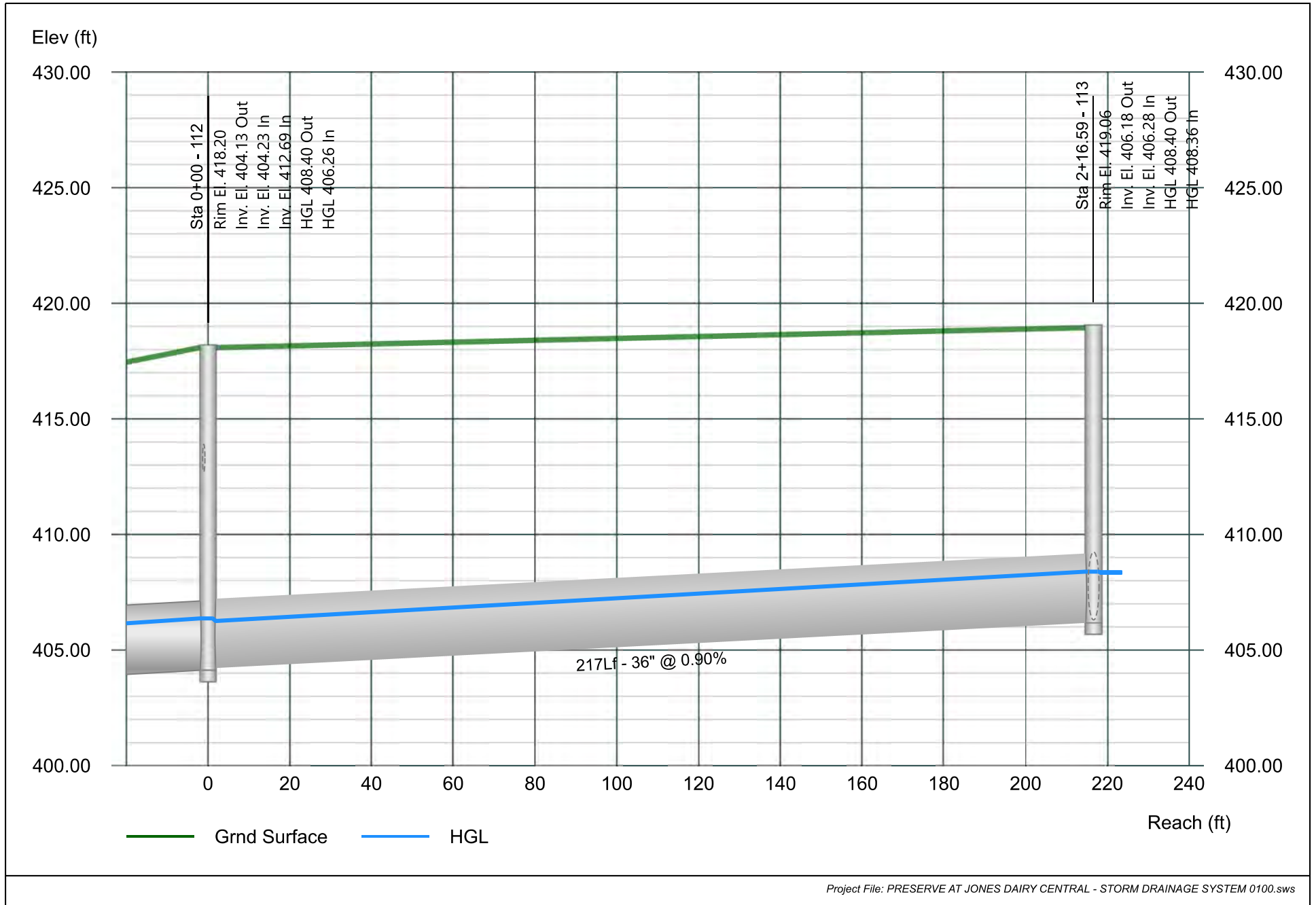


Line 13 - 113 TO 112

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

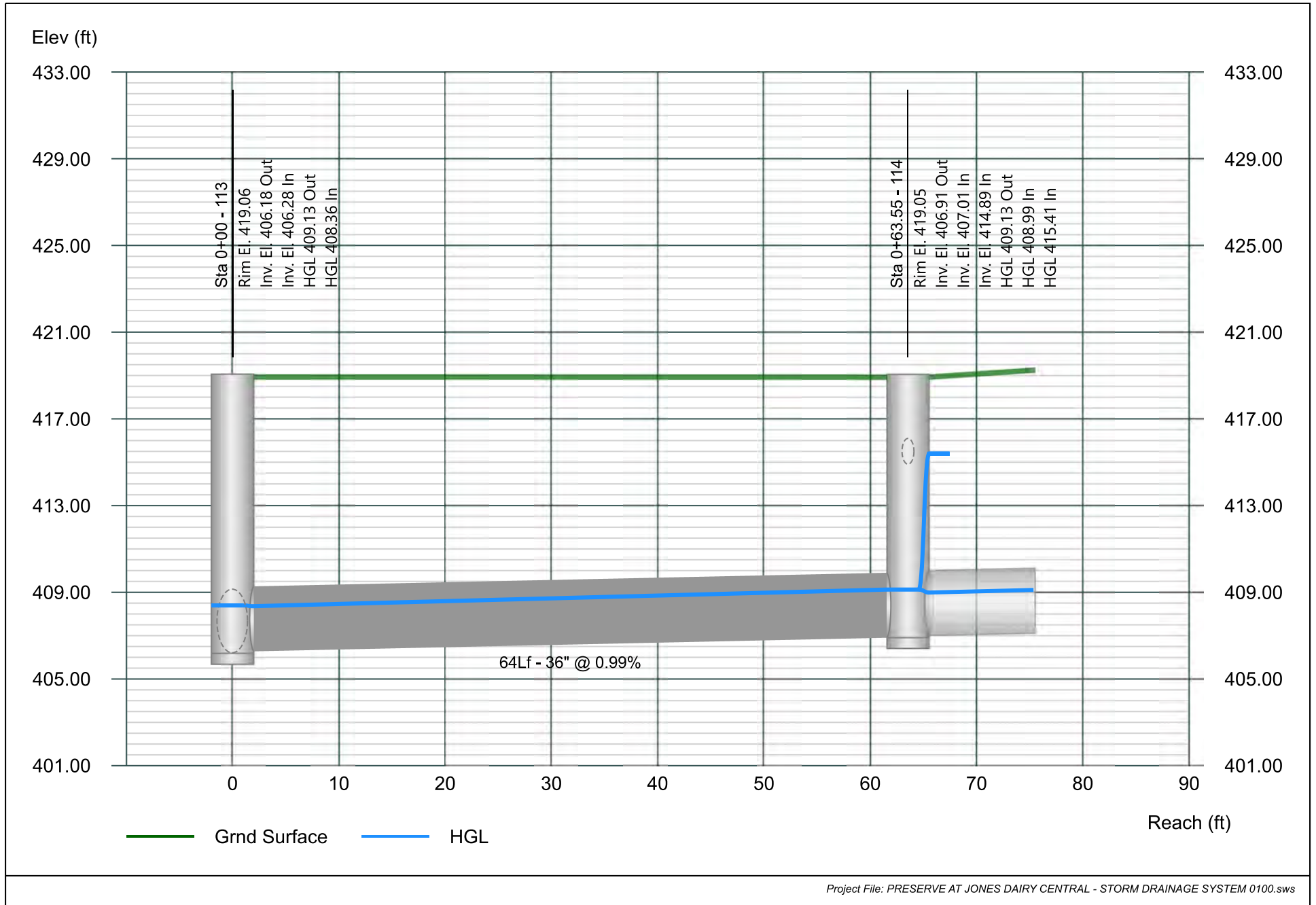


Line 14 - 114 TO 113

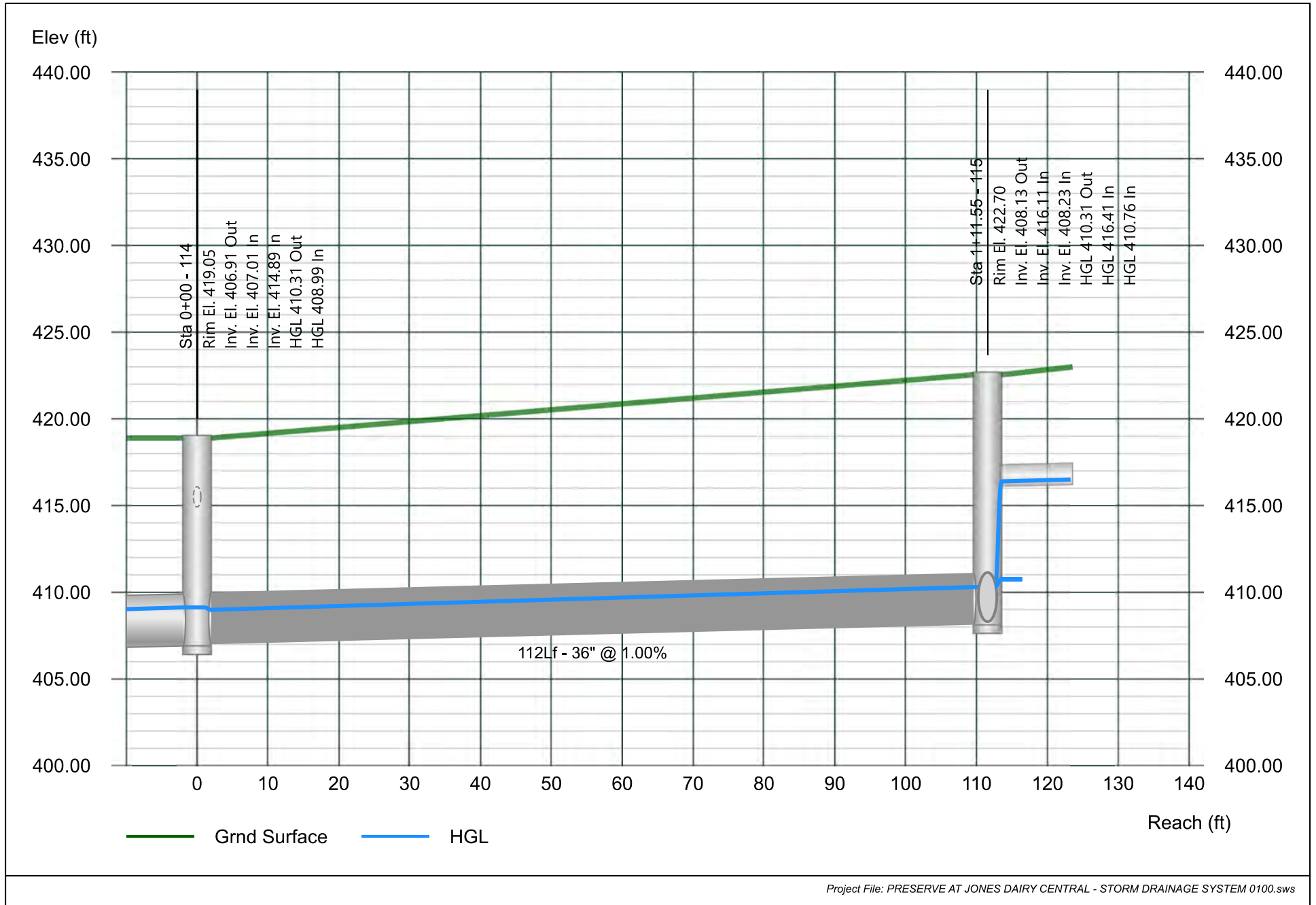
Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

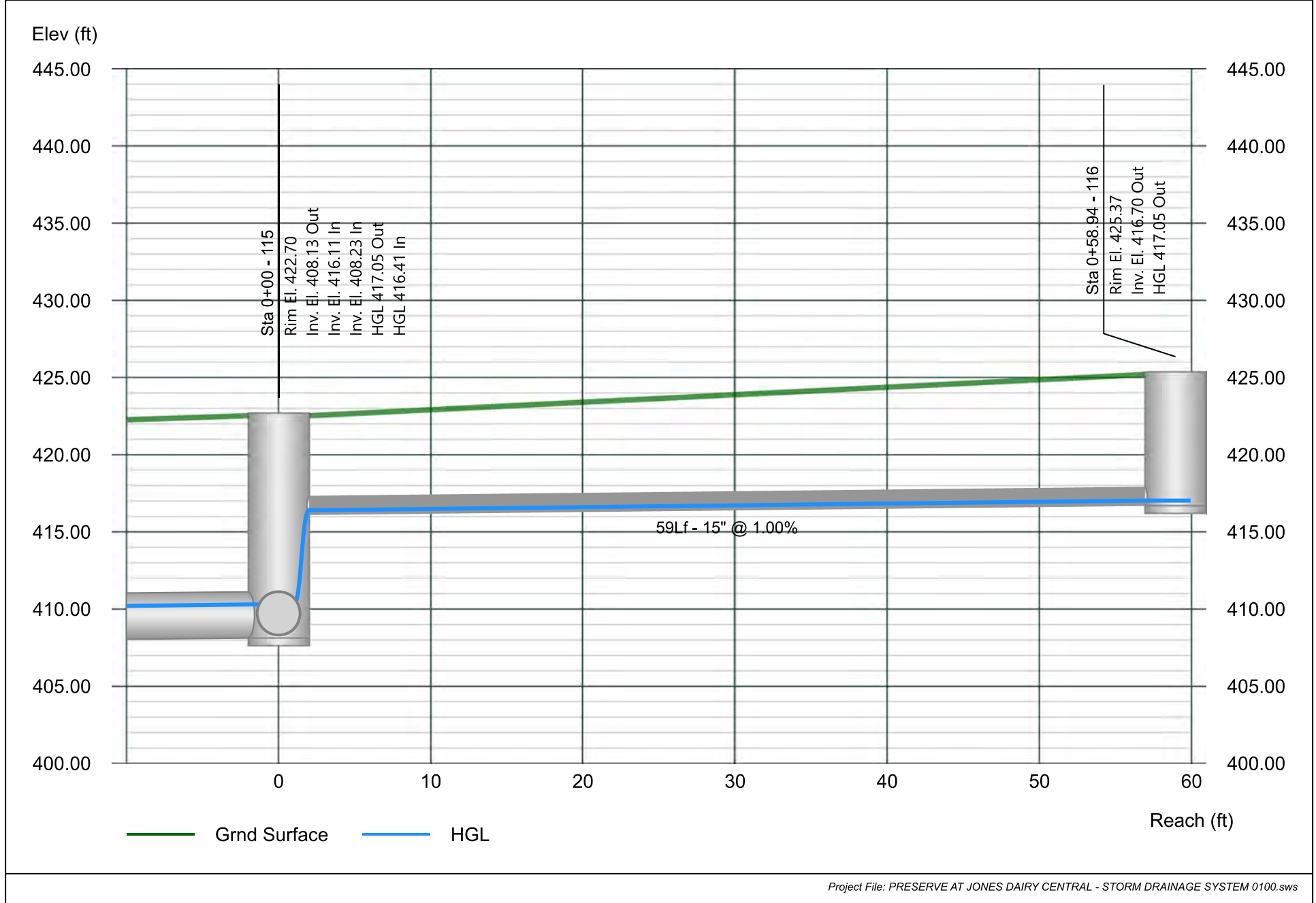
01-19-2024



Line 15 - 115 TO 114



Line 16 - 116 TO 115

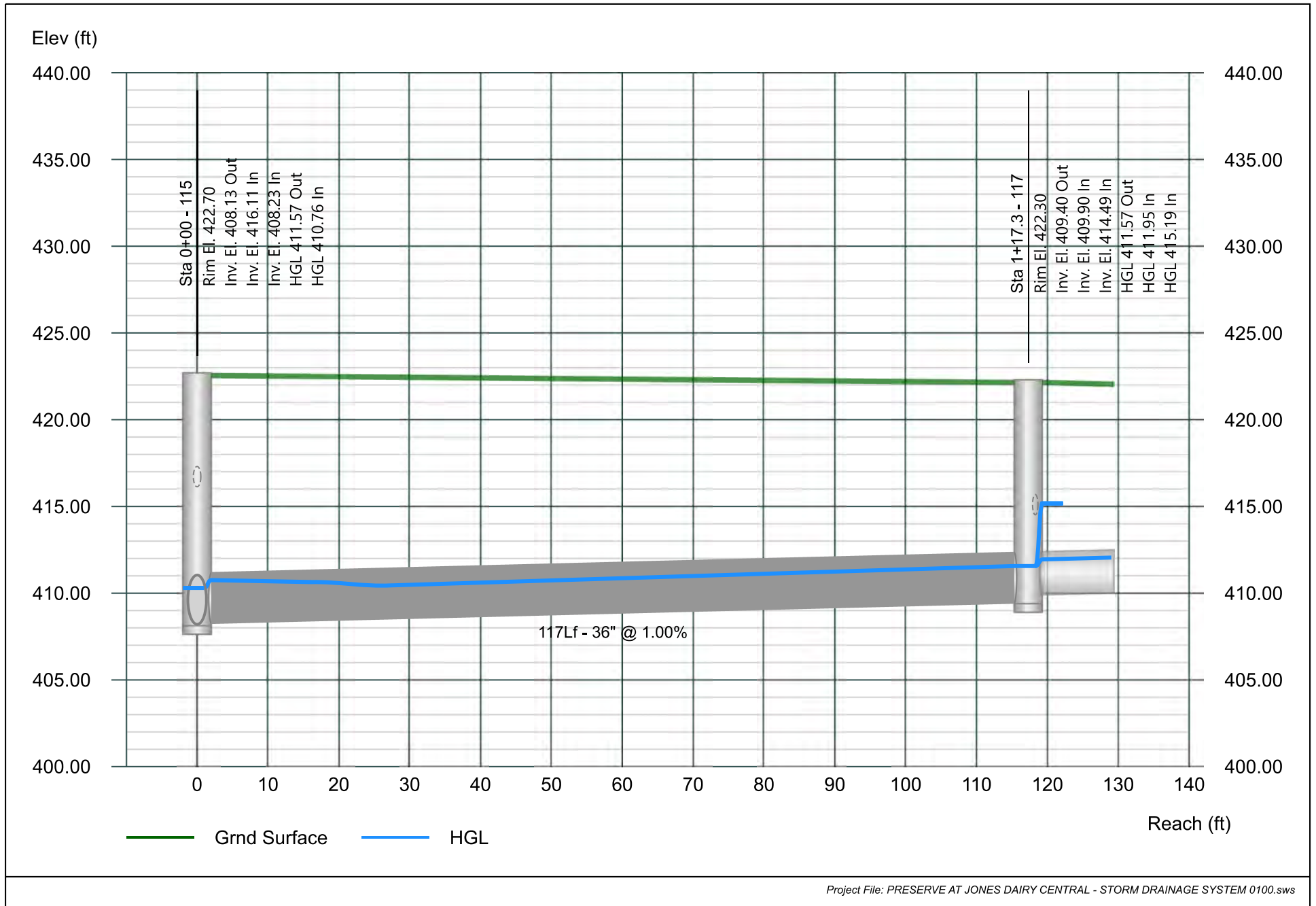


Line 17 - 117 TO 115

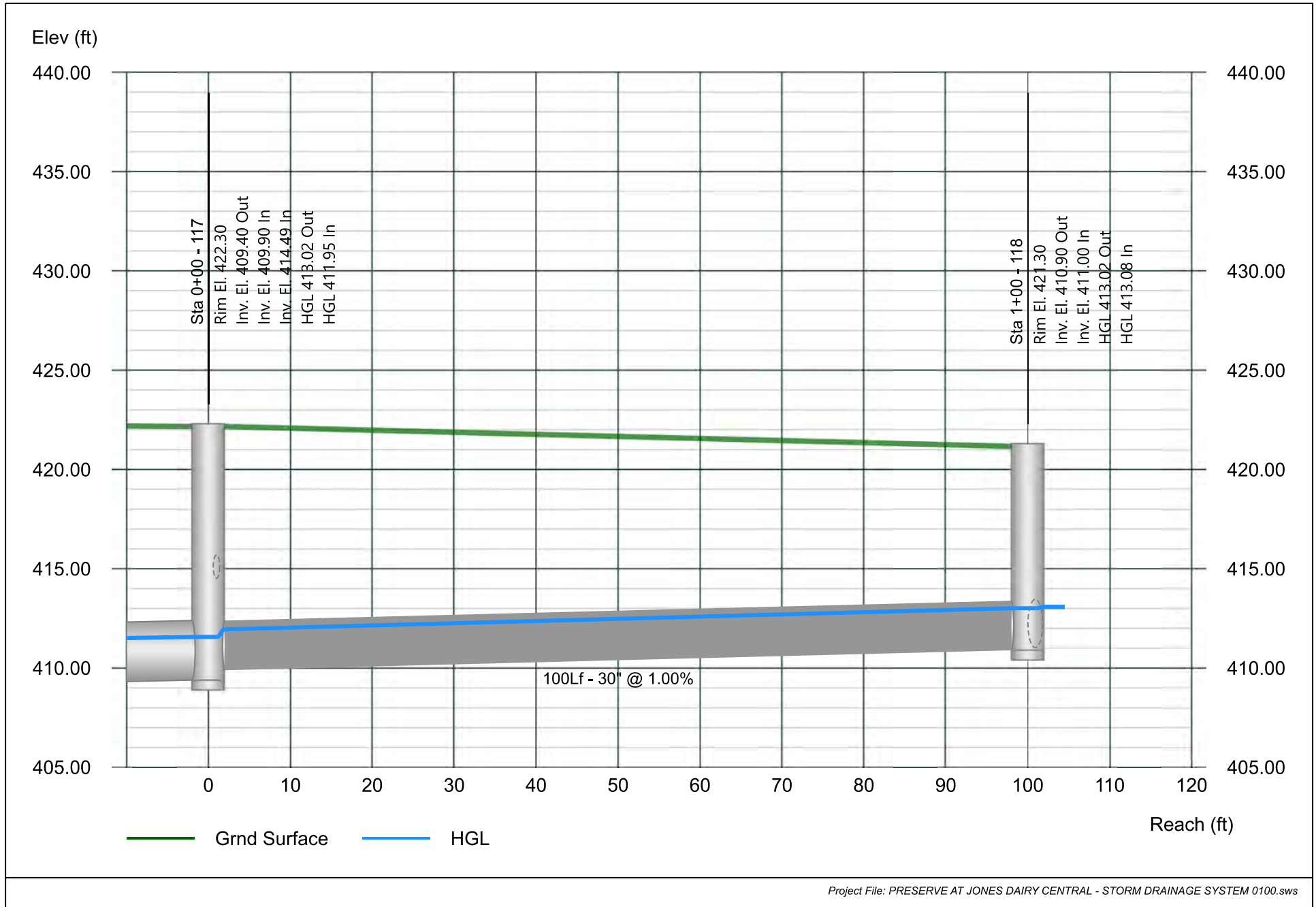
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

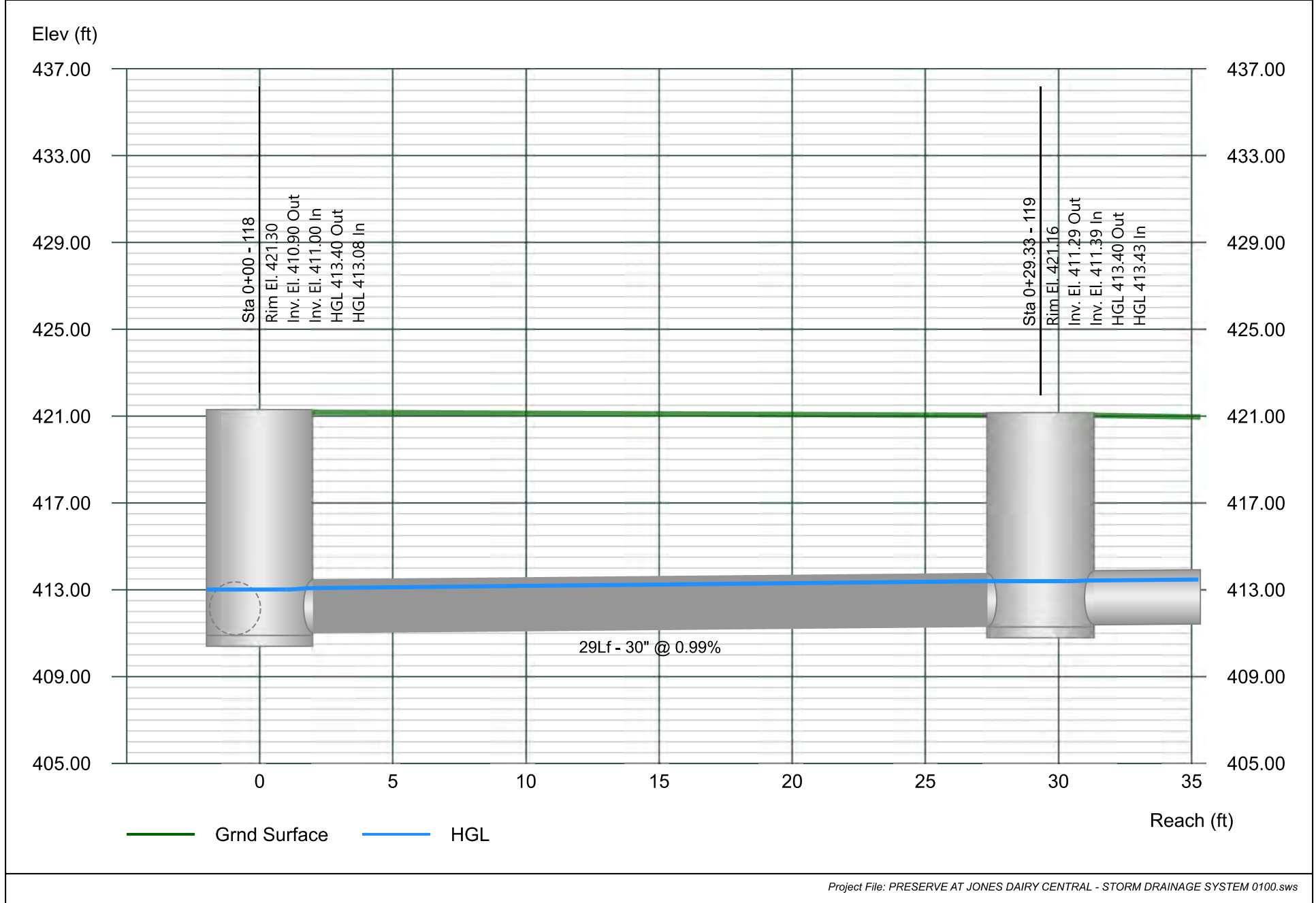
01-19-2024



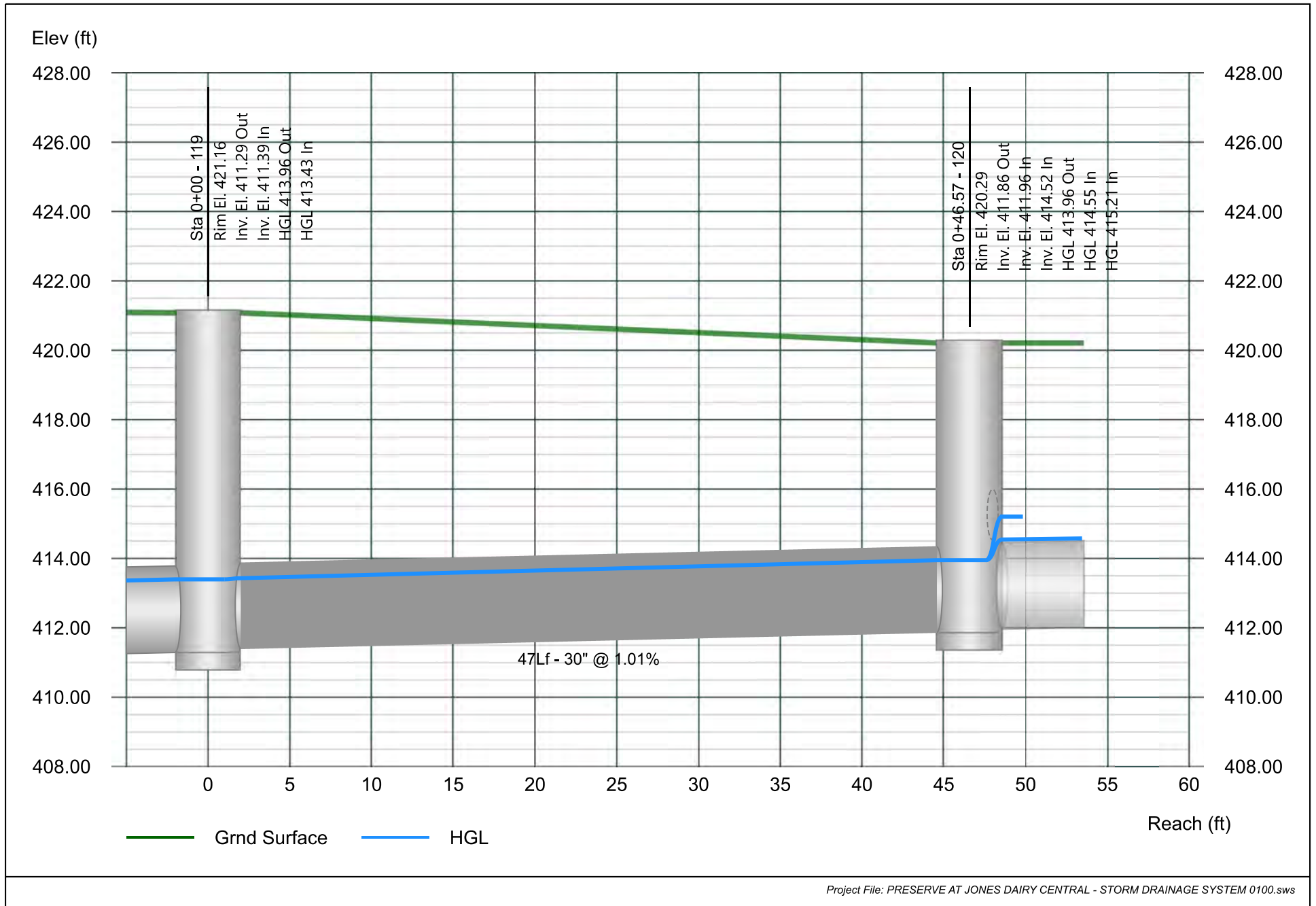
Line 18 - 118 TO 117



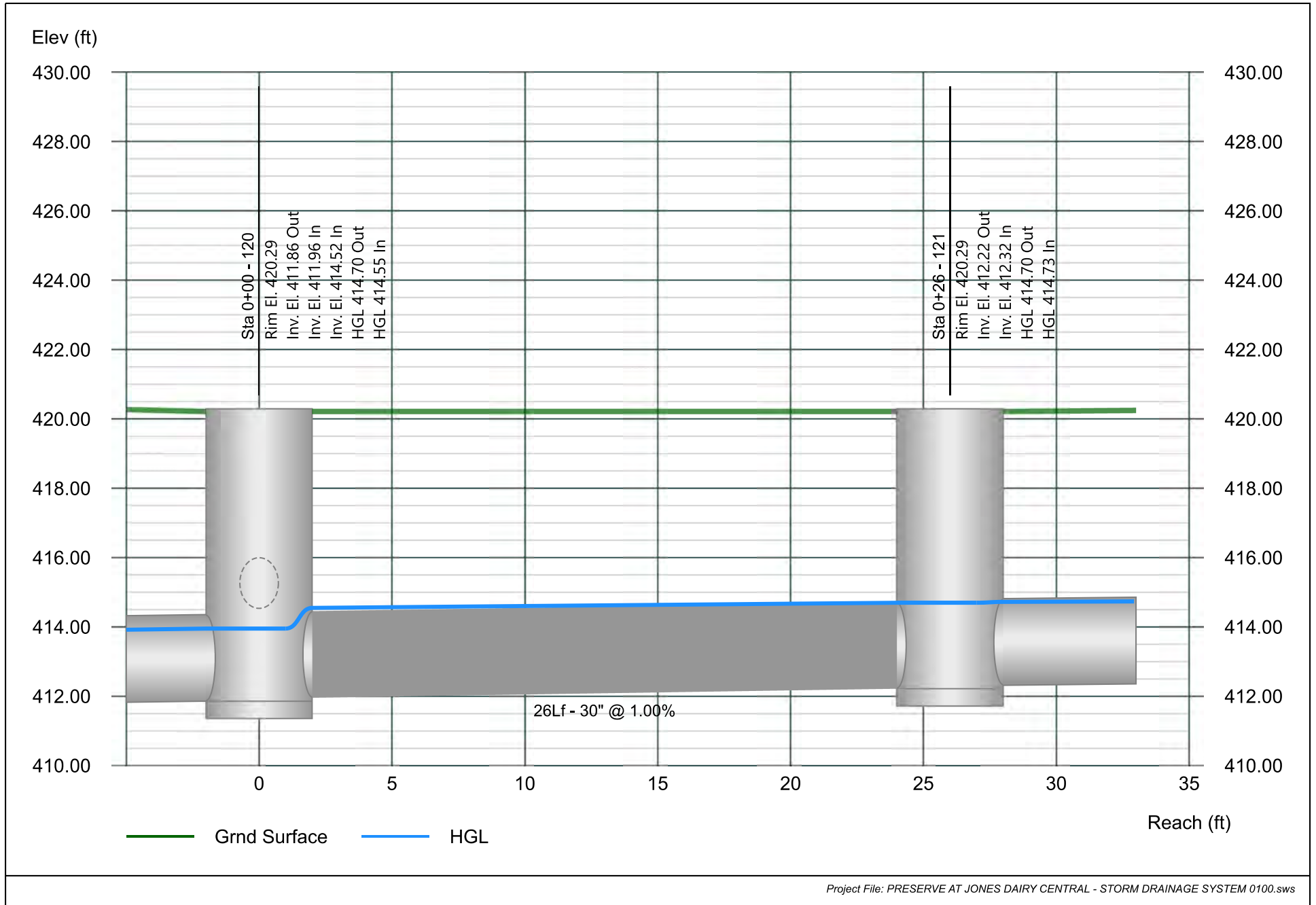
Line 19 - 119 TO 118



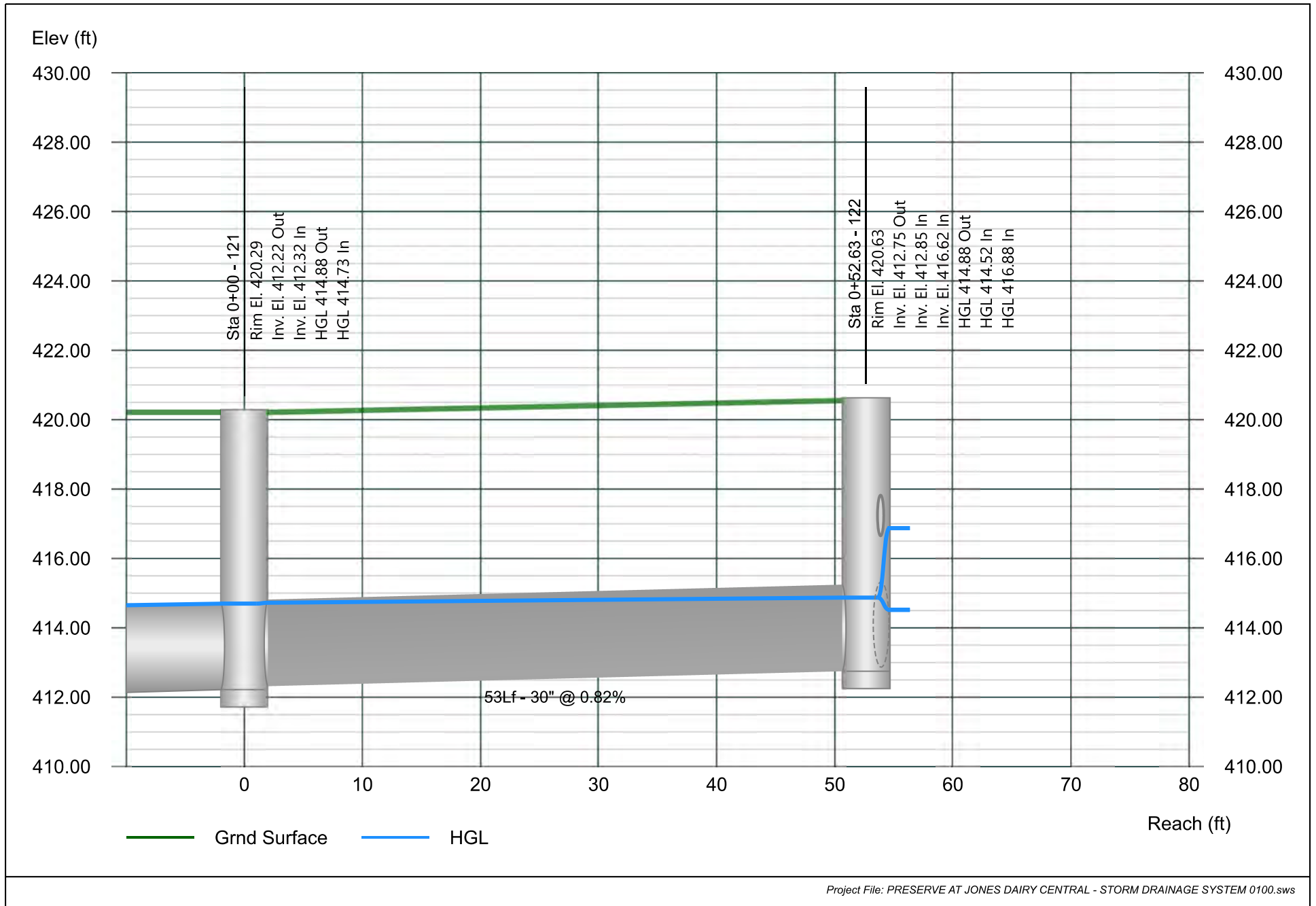
Line 20 - 120 TO 119



Line 21 - 121 TO 120



Line 22 - 122 TO 121

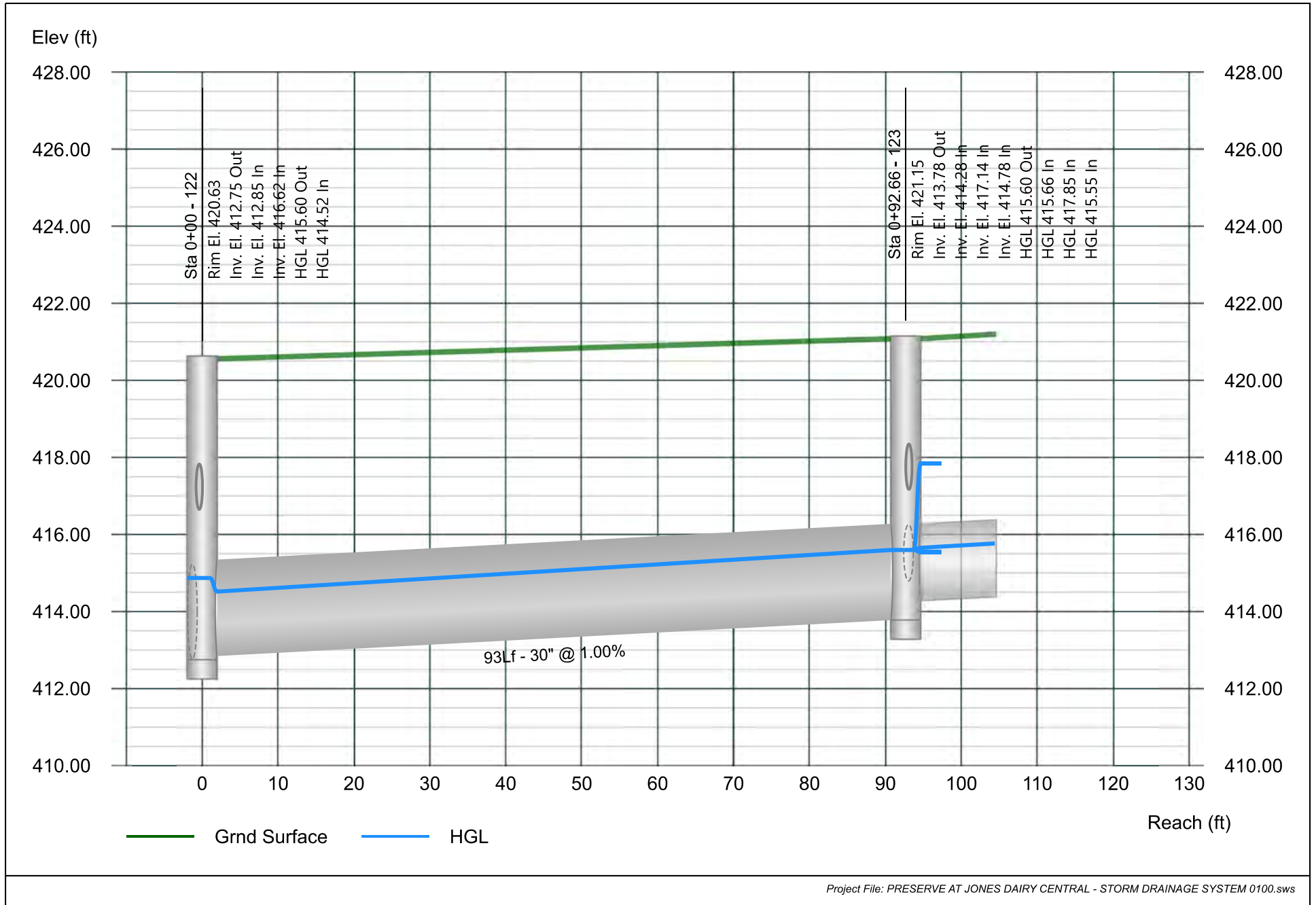


Line 23 - 123 TO 122

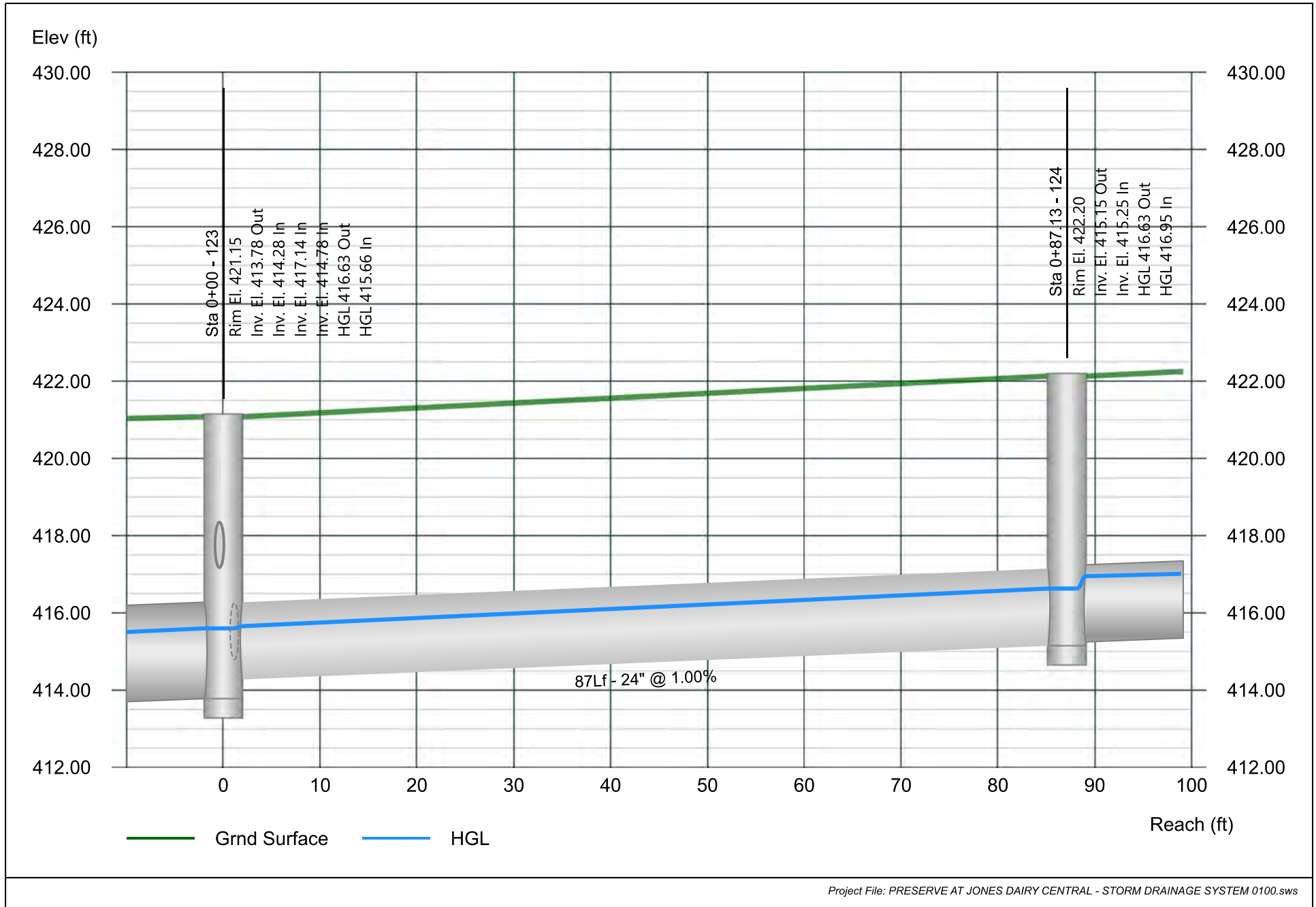
Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

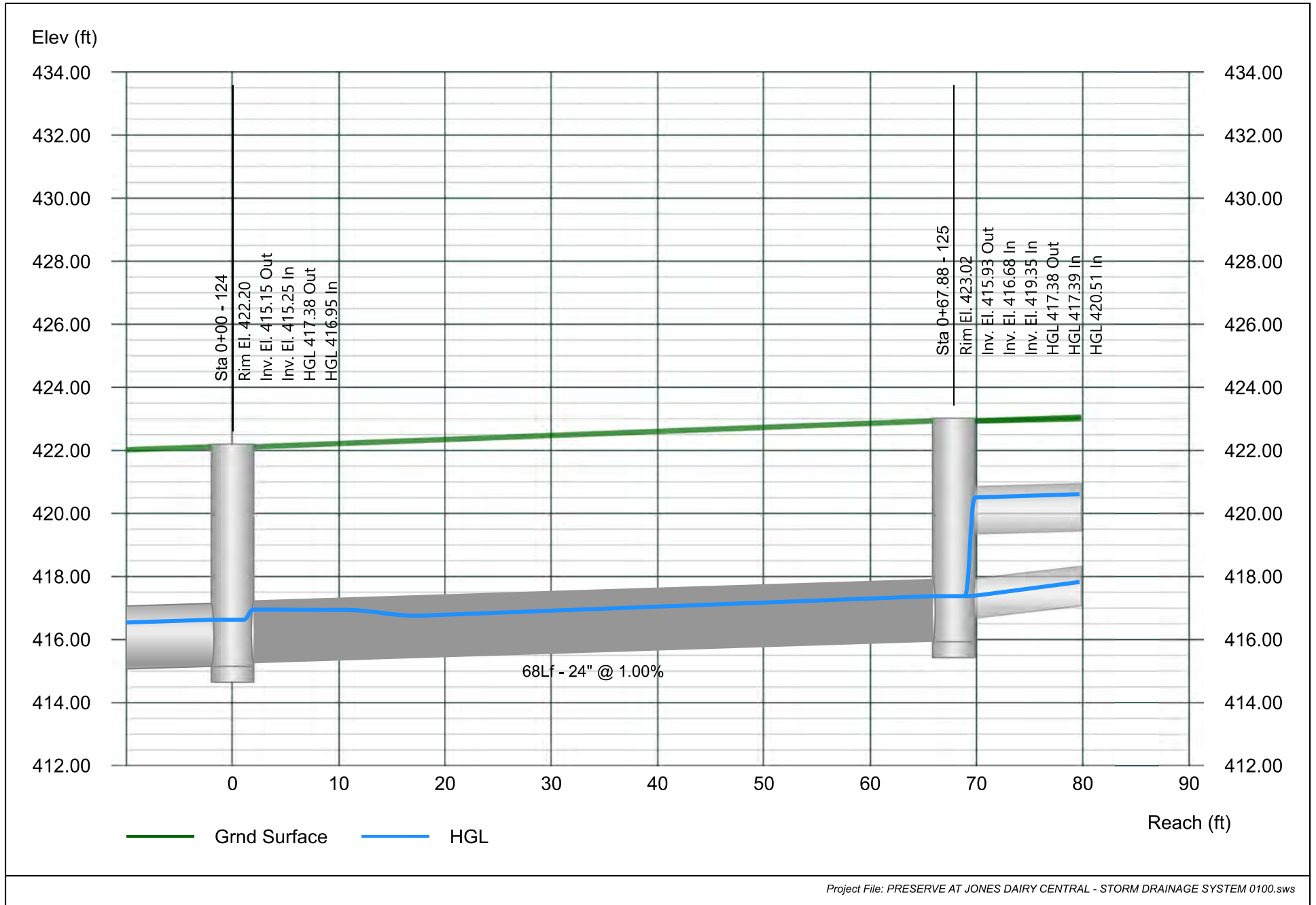
01-19-2024



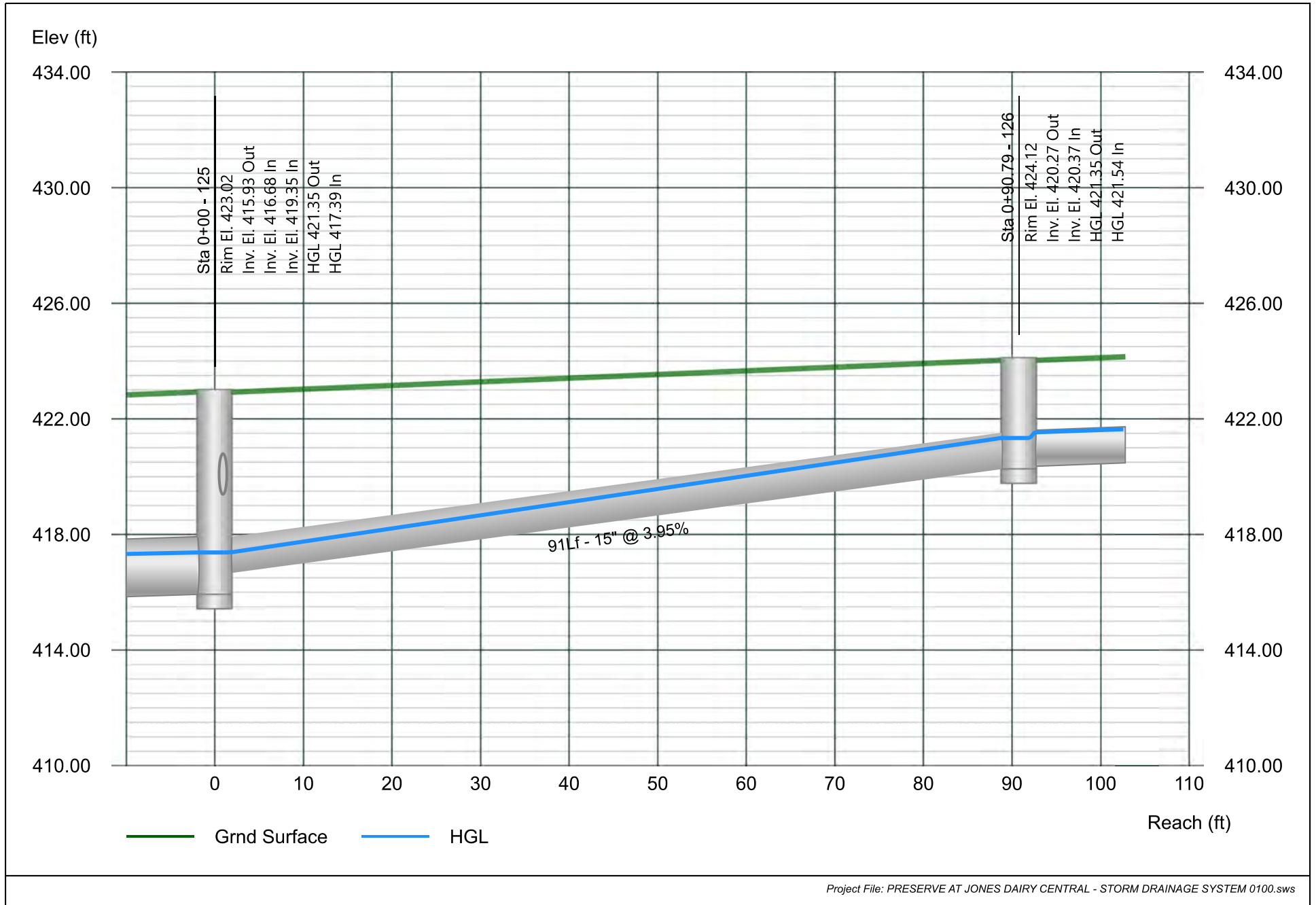
Line 24 - 124 TO 123



Line 25 - 125 TO 124



Line 26 - 126 TO 125

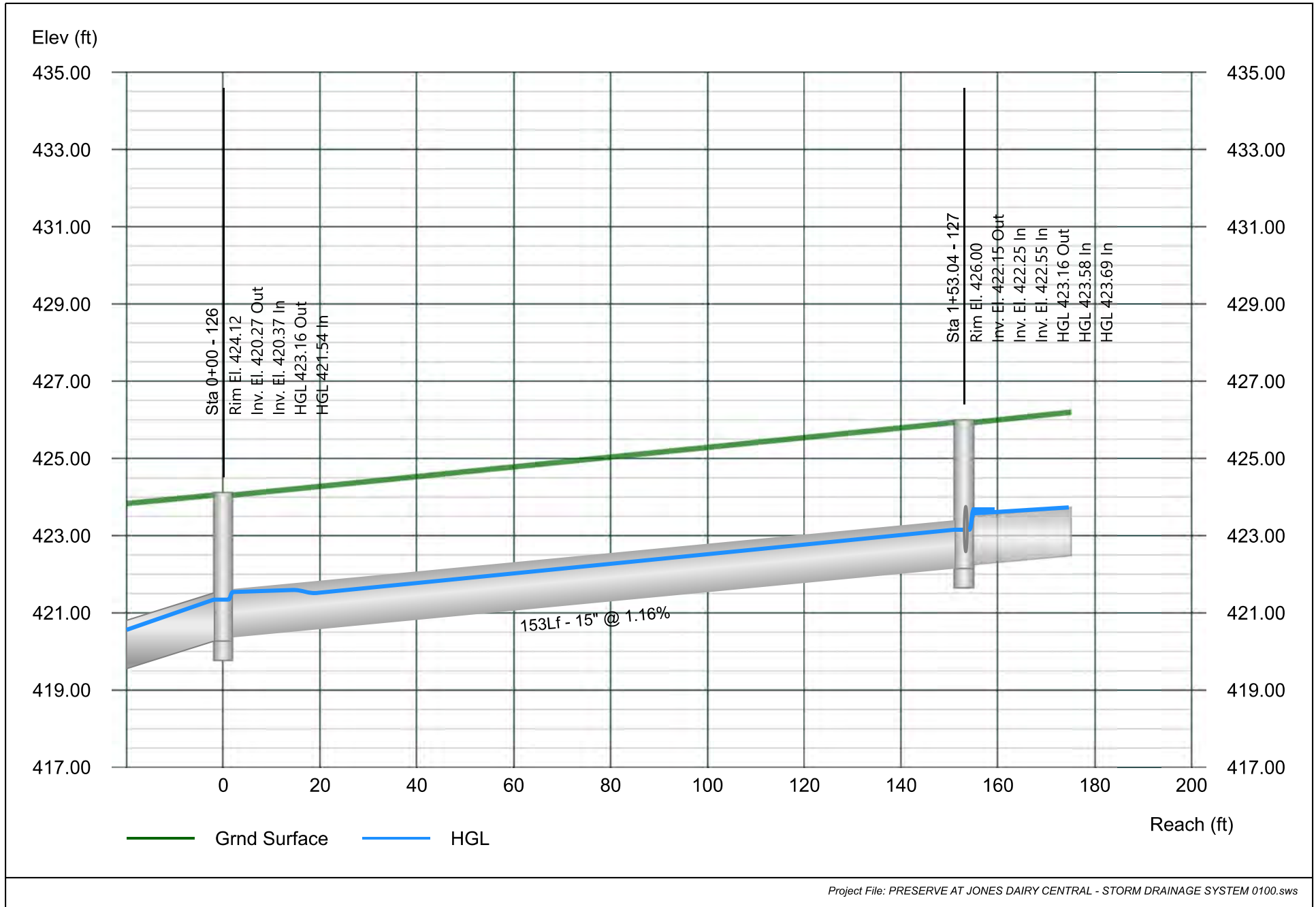


Line 27 - 127 TO 126

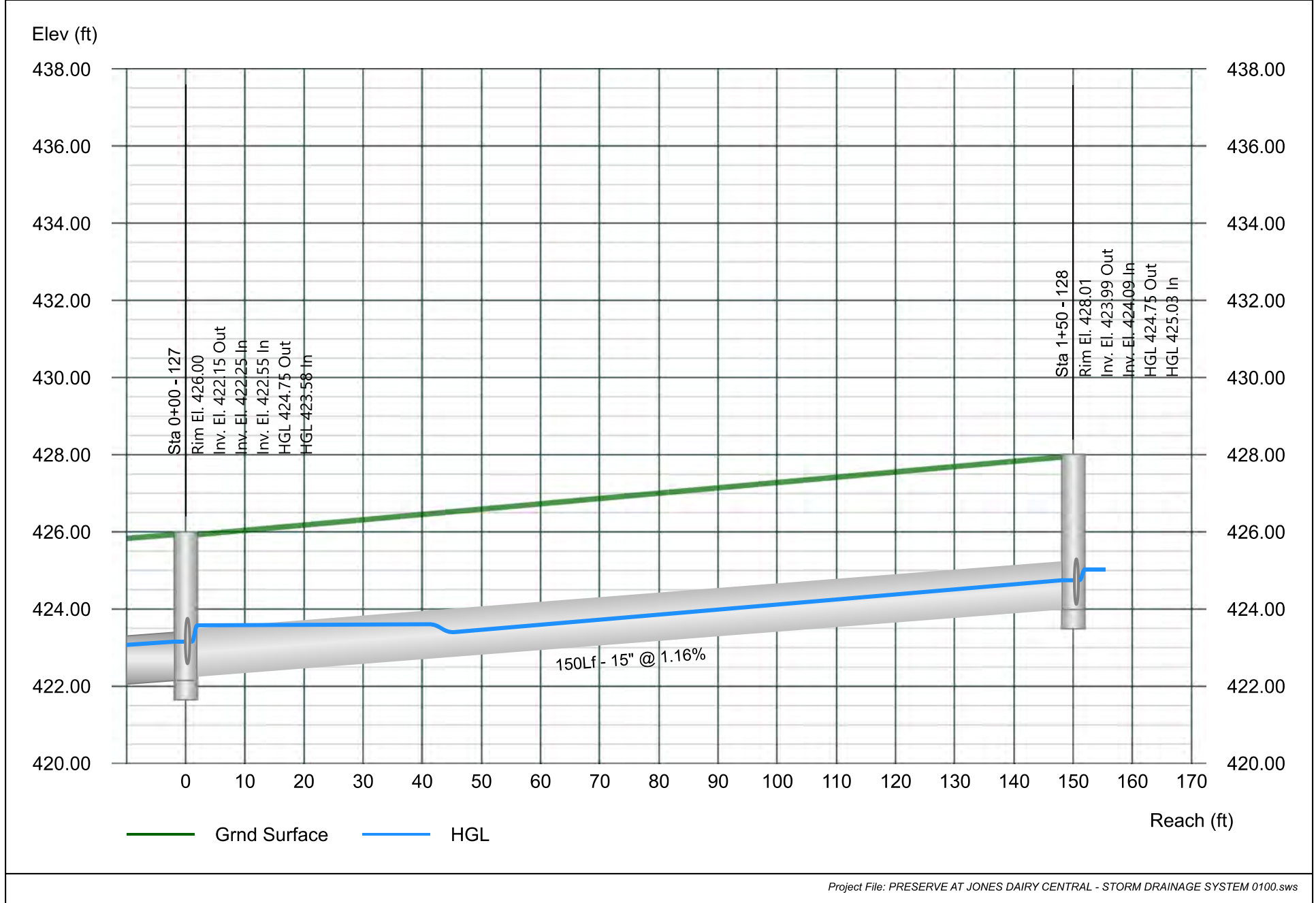
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 28 - 128 TO 127

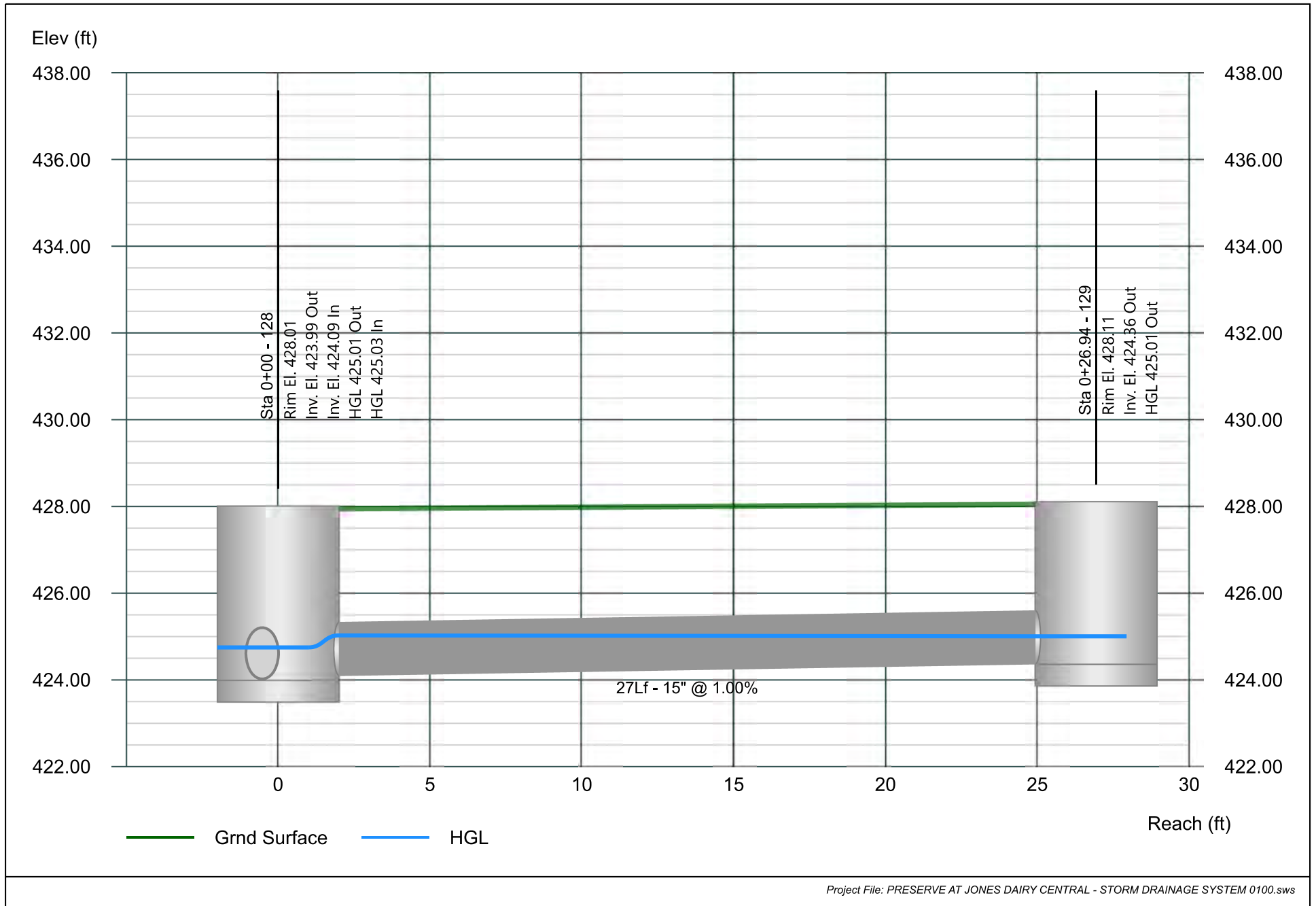


Line 29 - 129 TO 128

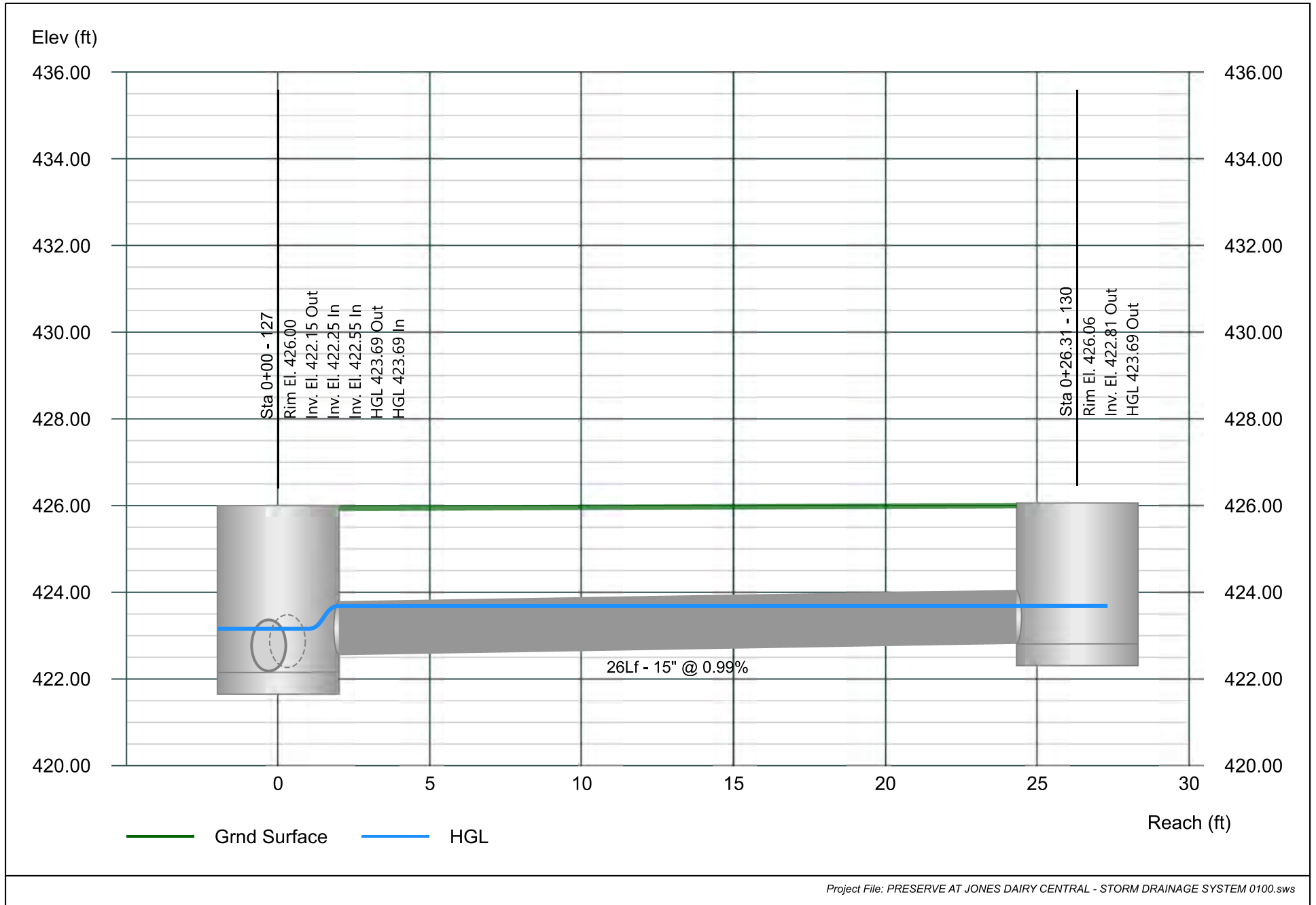
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 30 - 130 TO 127

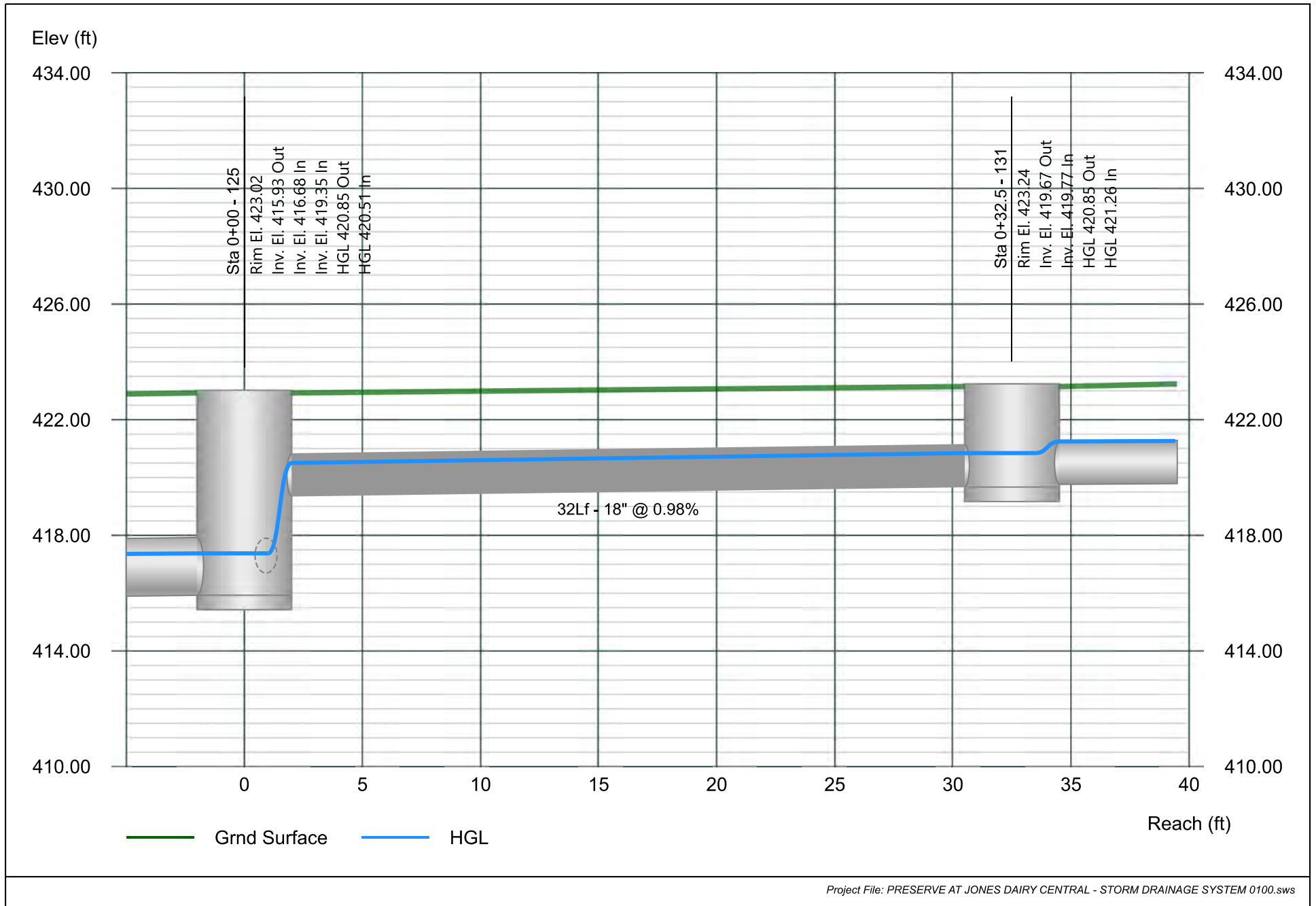


Line 31 - 131 TO 125

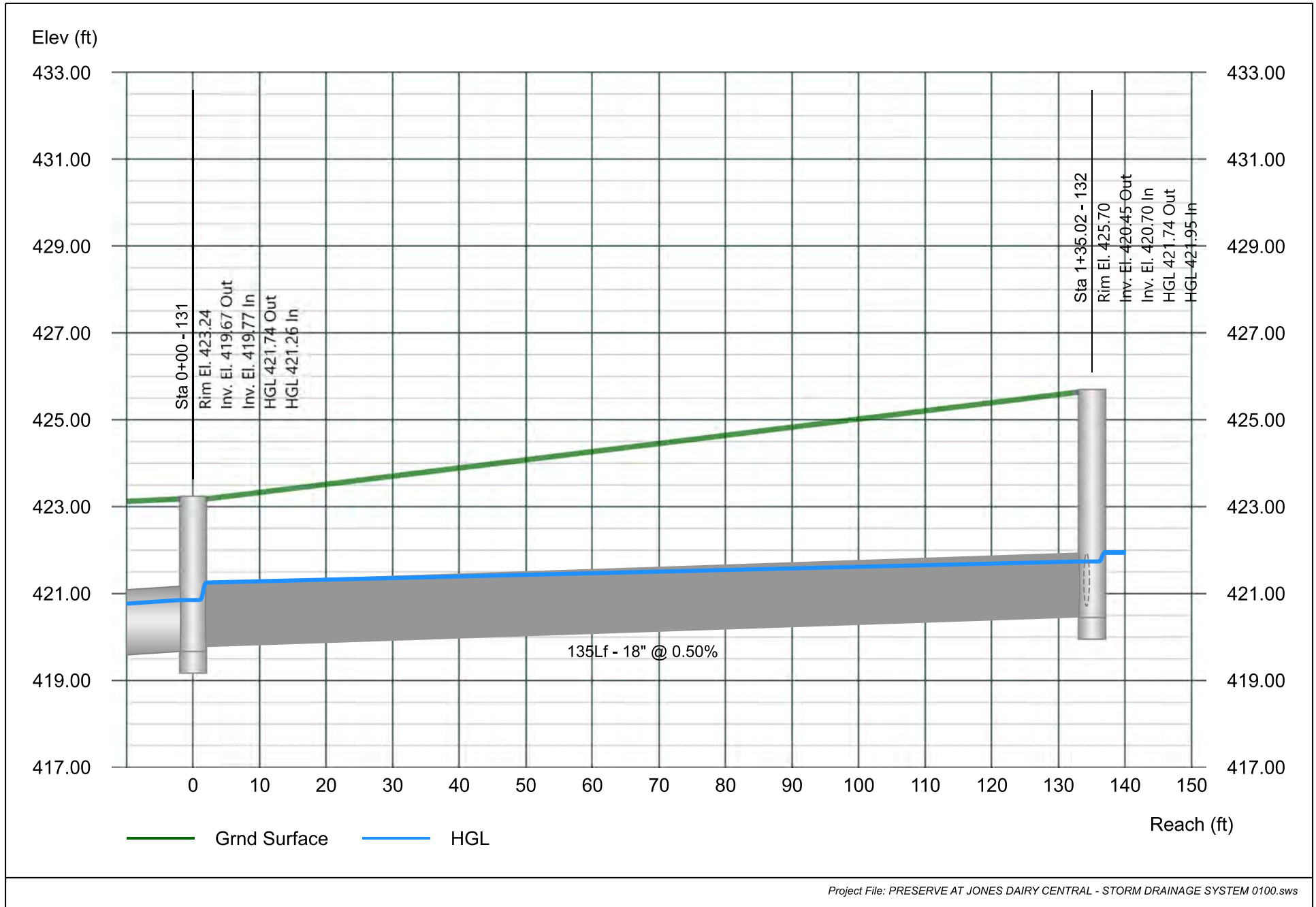
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 32 - 132 TO 131

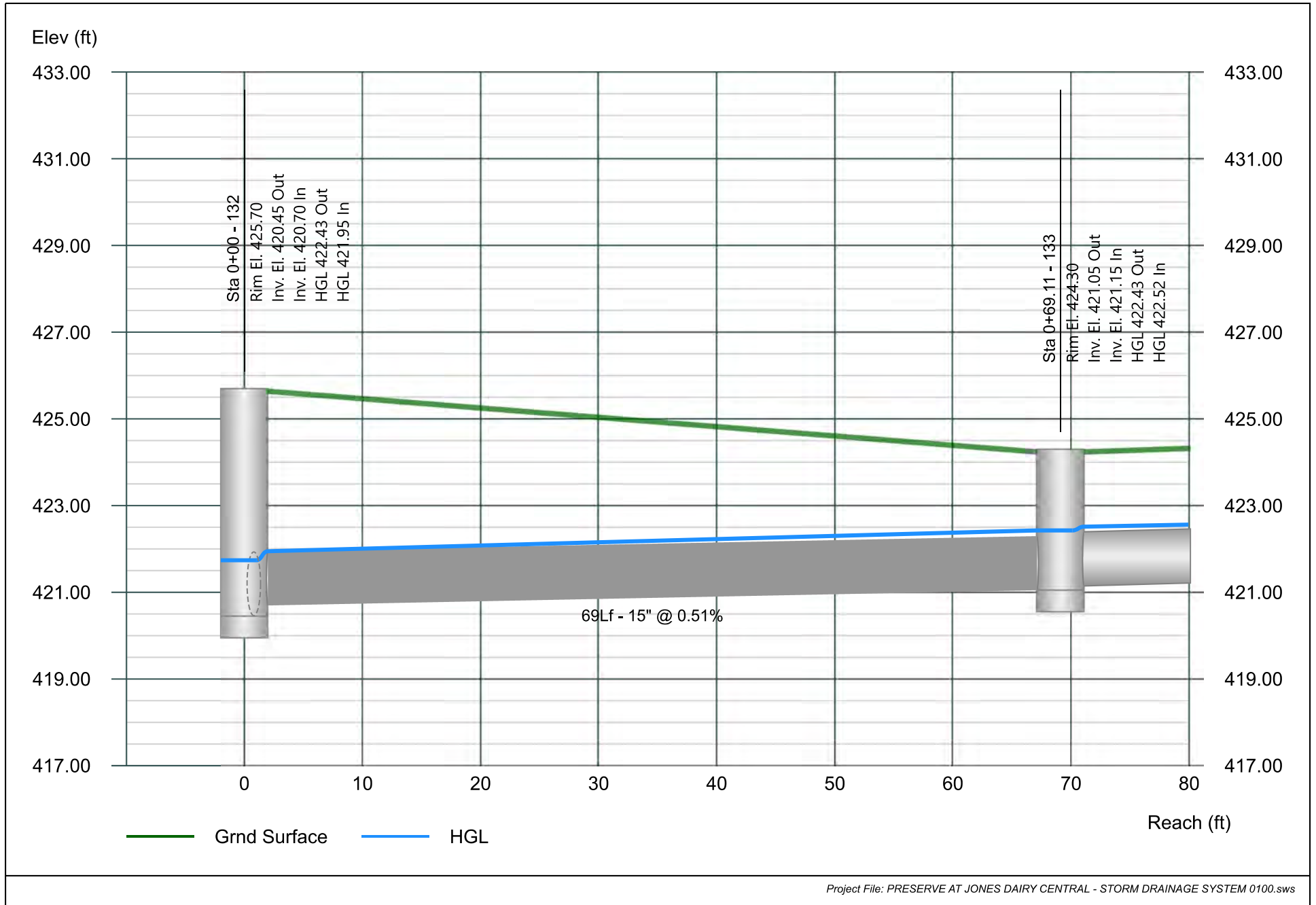


Line 33 - 133 TO 132

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

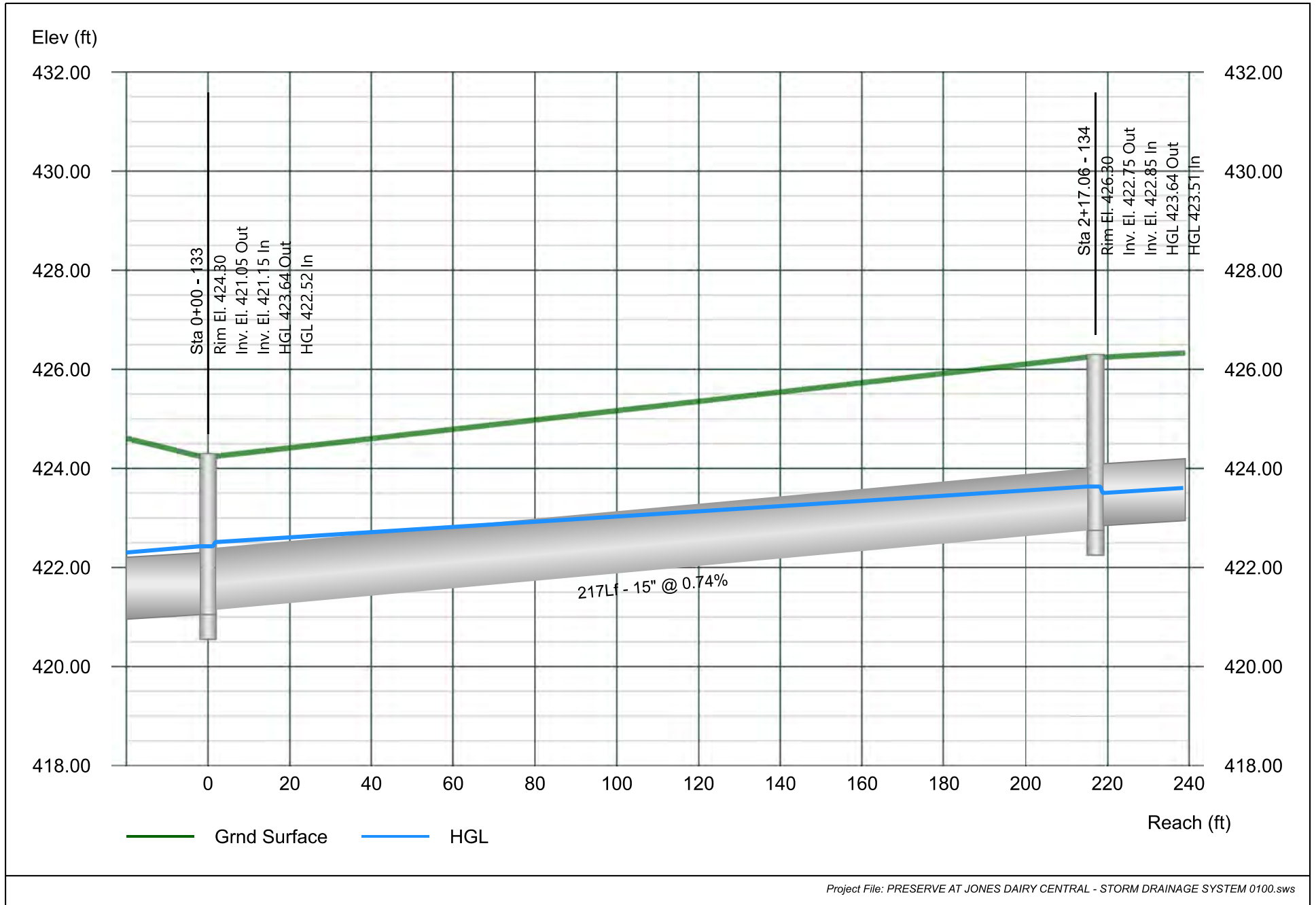


Line 34 - 134 TO 133

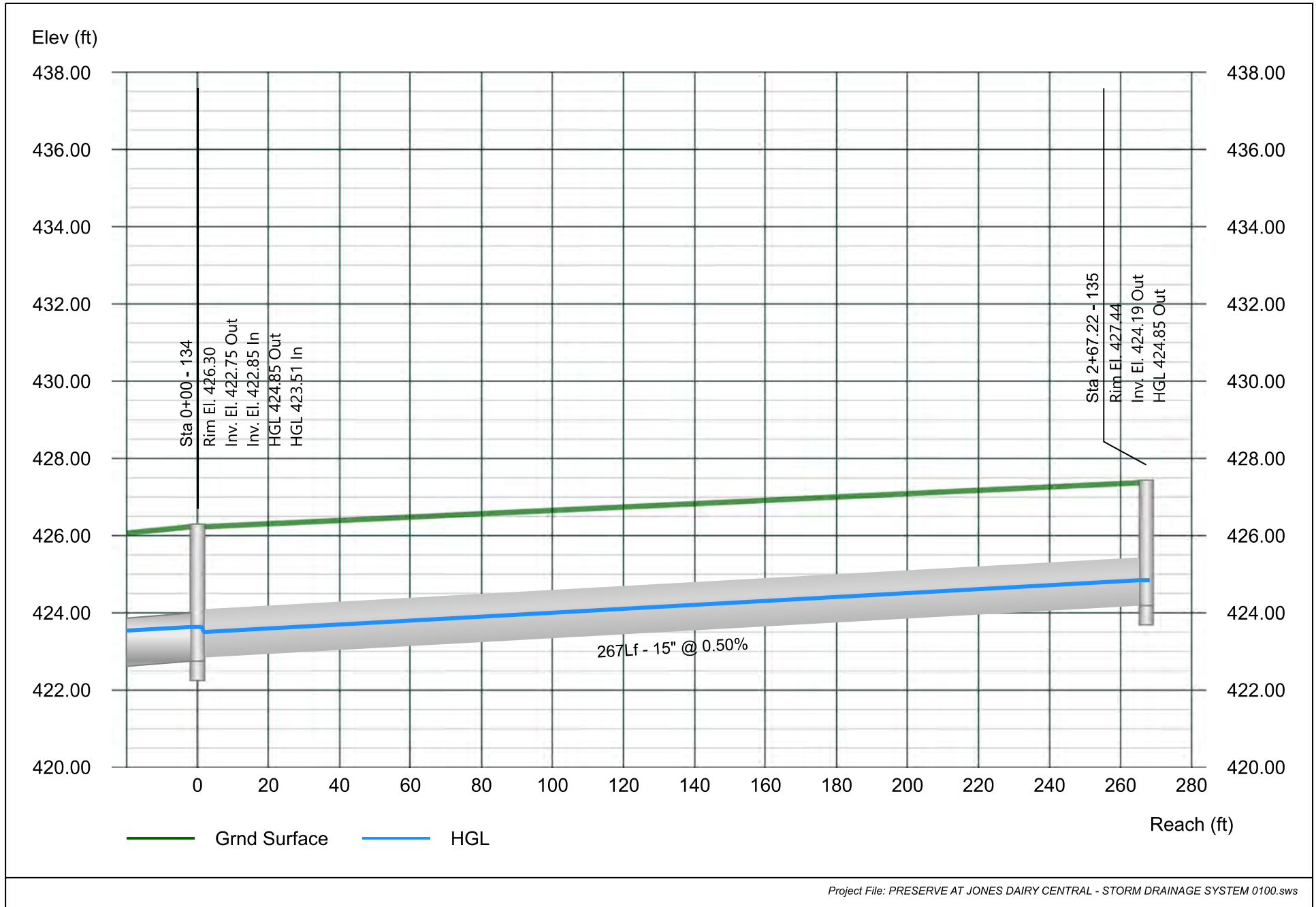
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

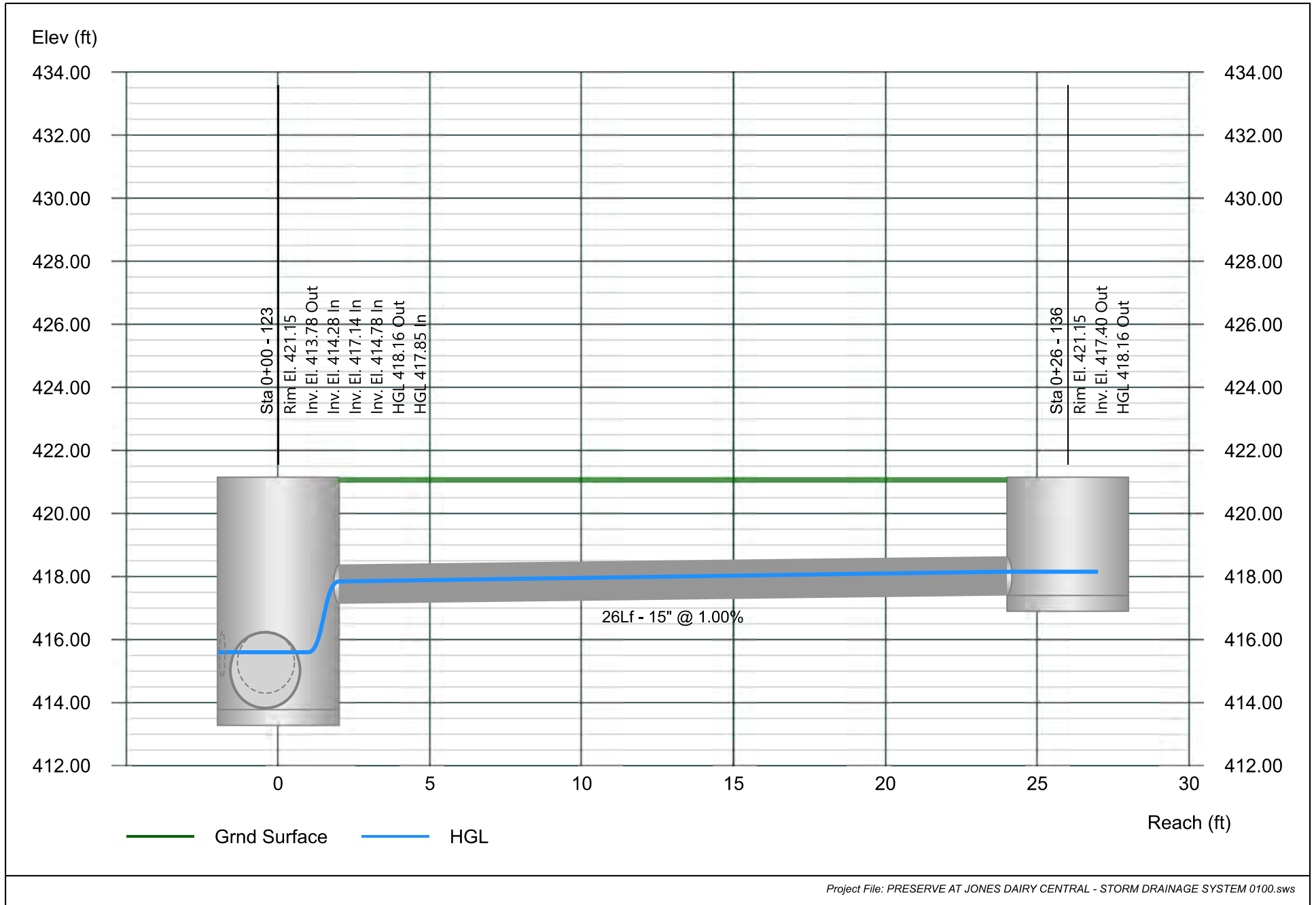
01-19-2024



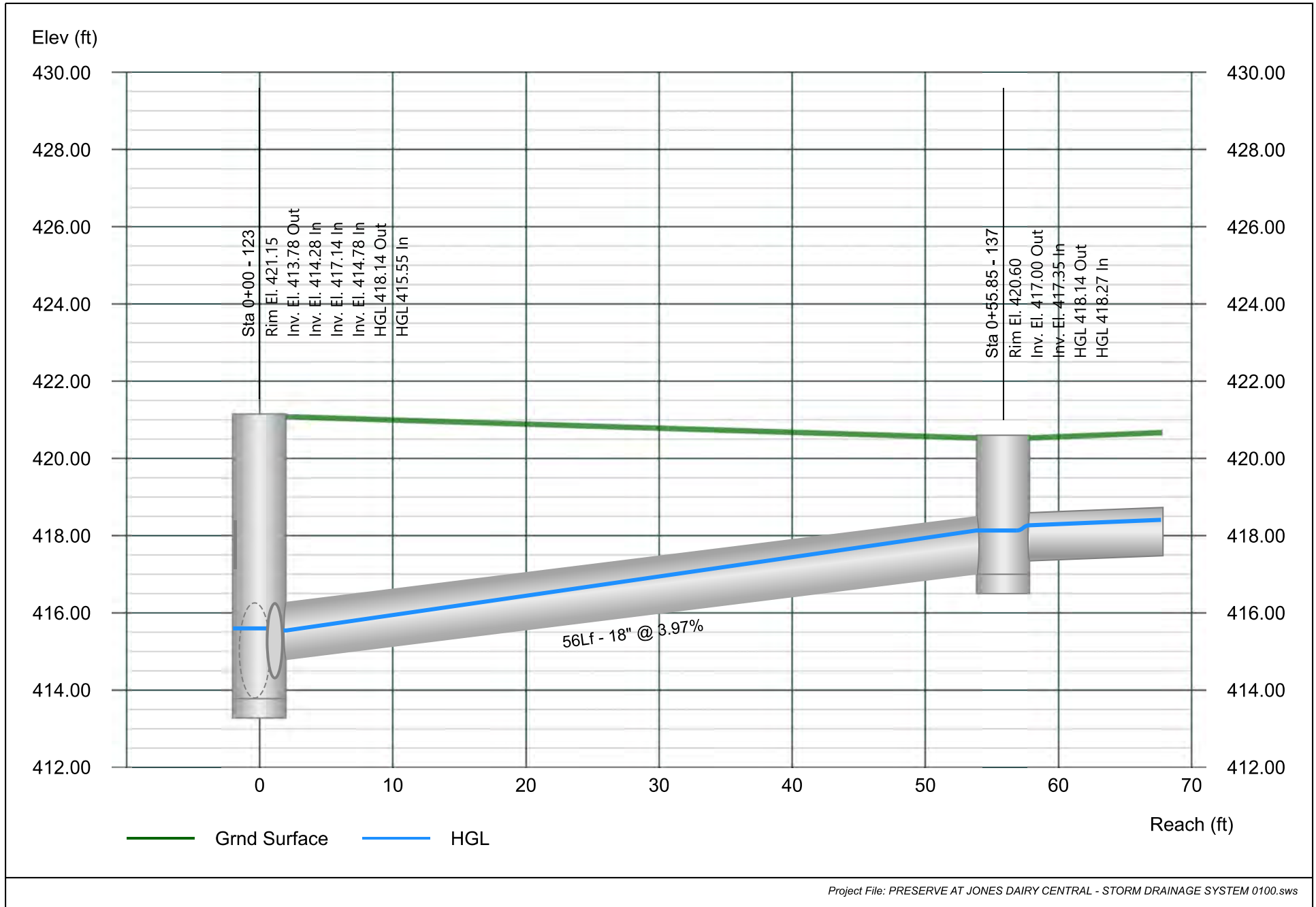
Line 35 - 135 TO 134



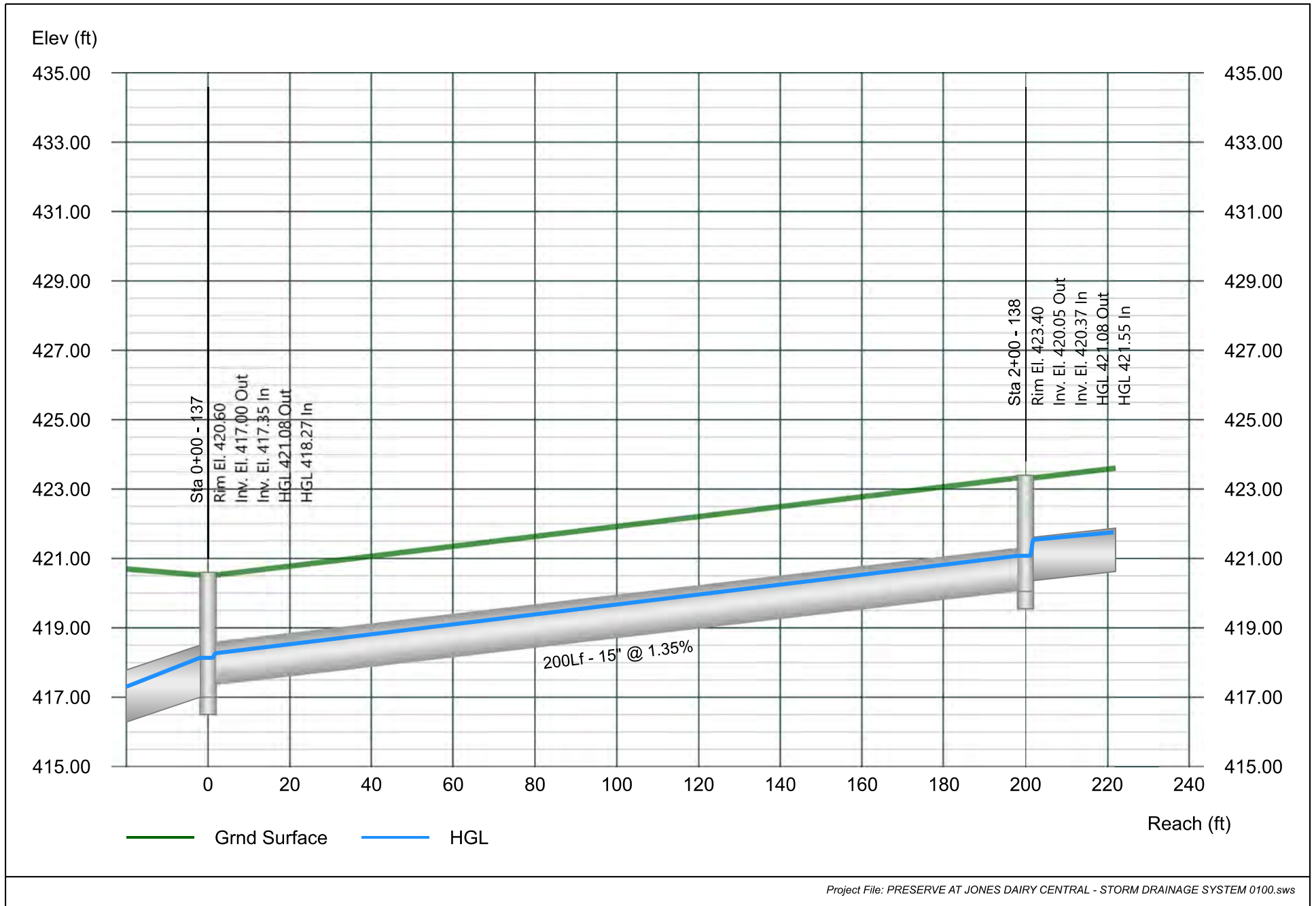
Line 36 - 136 TO 123



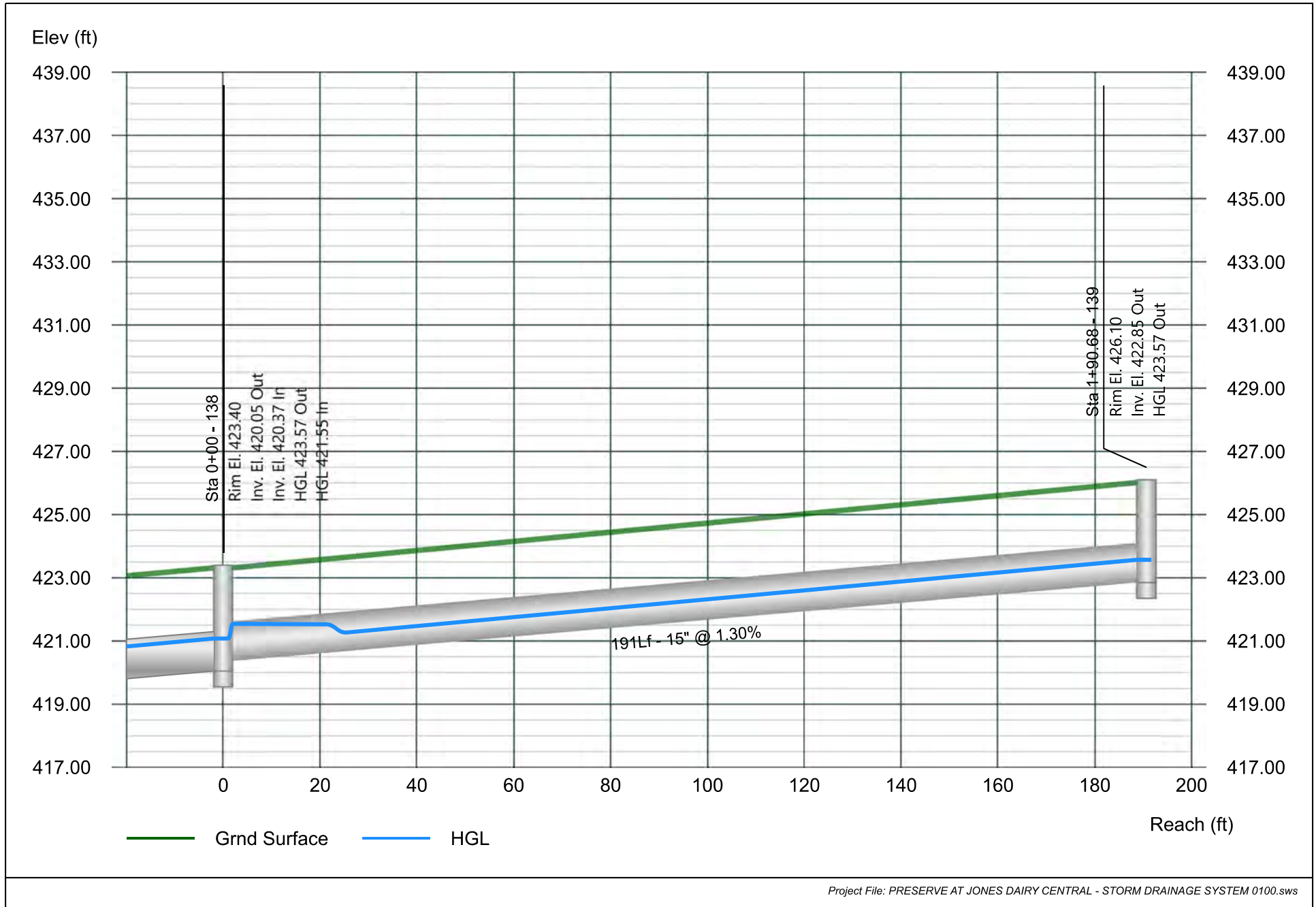
Line 37 - 137 TO 123



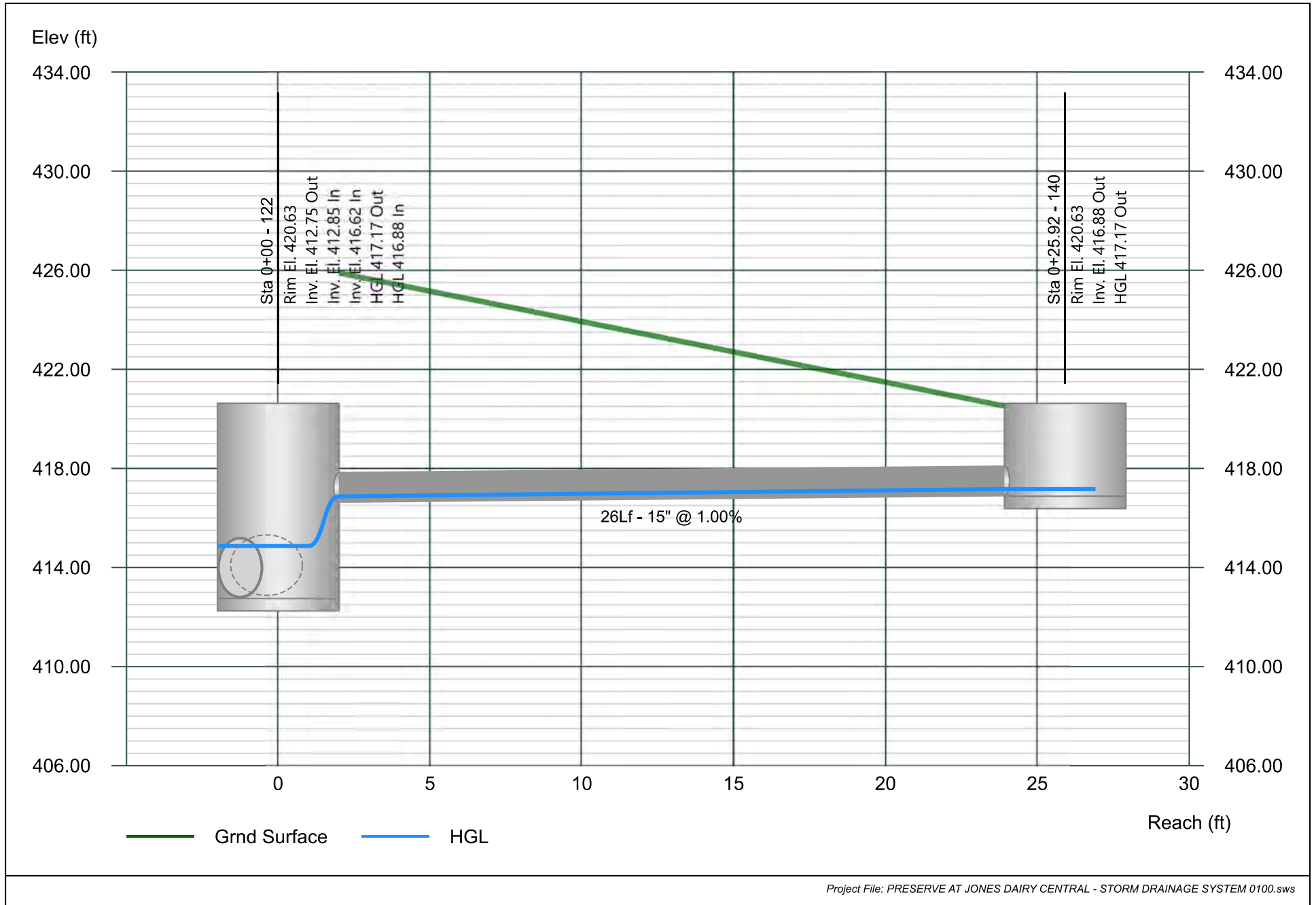
Line 38 - 138 TO 137



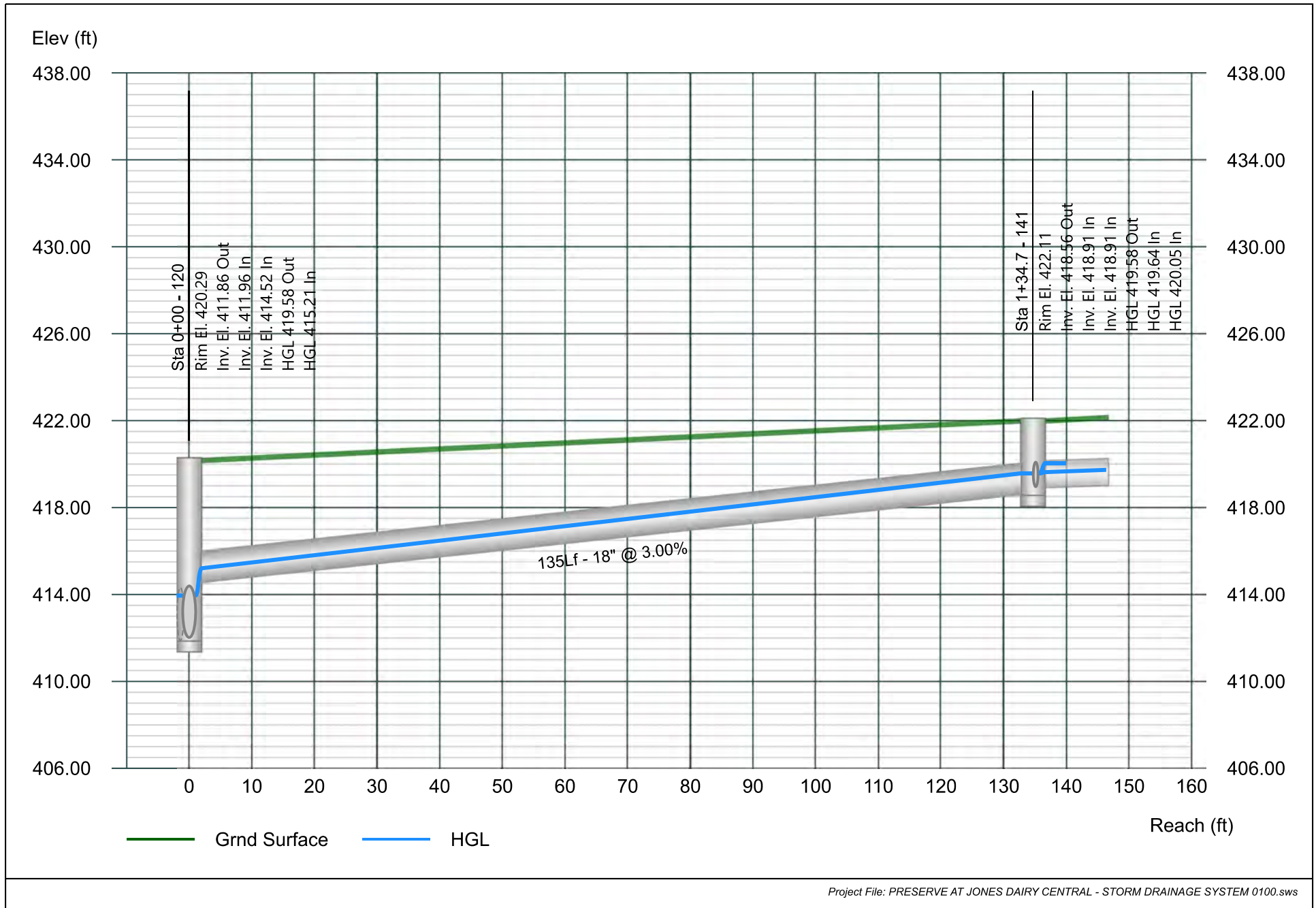
Line 39 - 139 TO 138



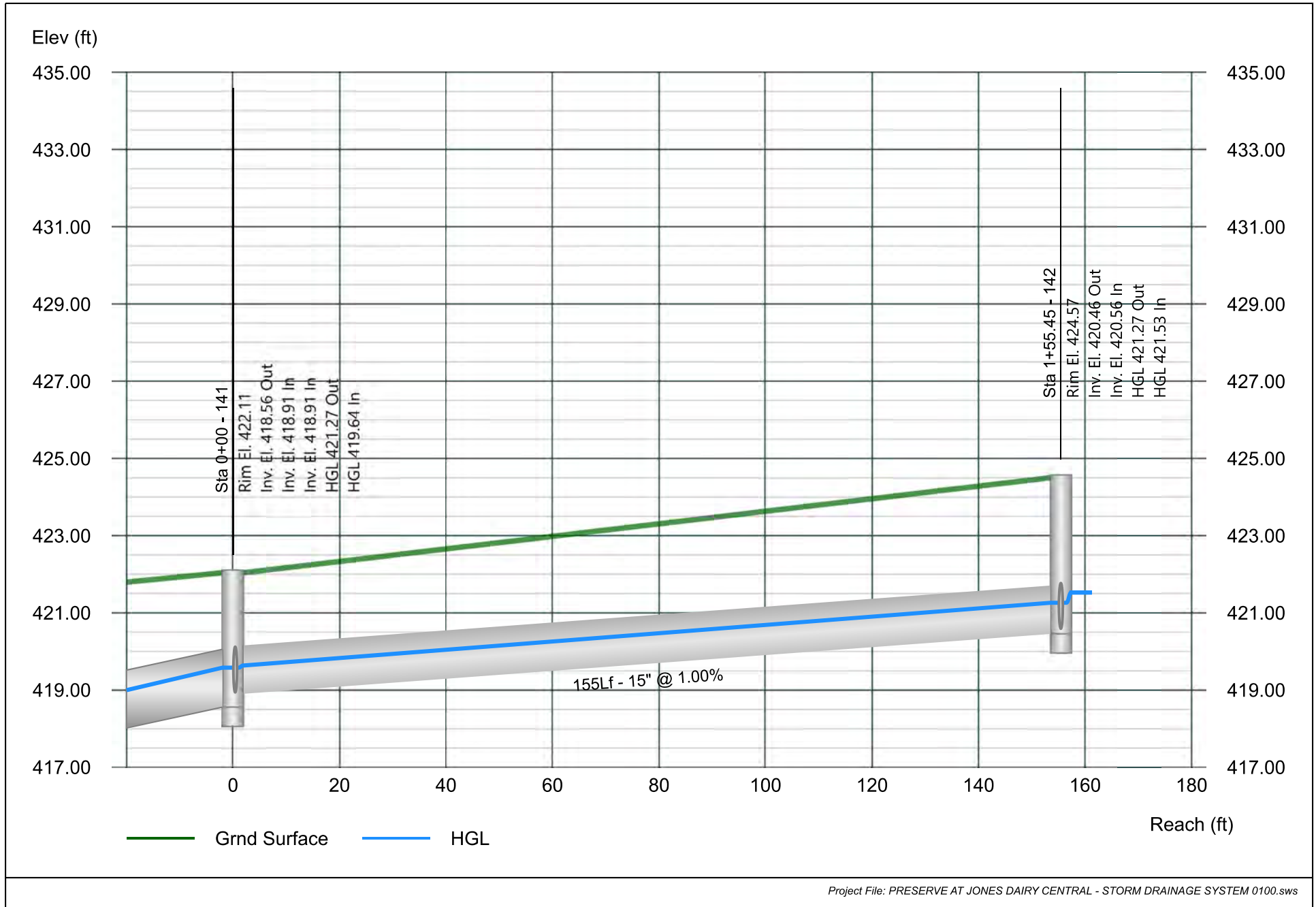
Line 40 - 140 TO 122



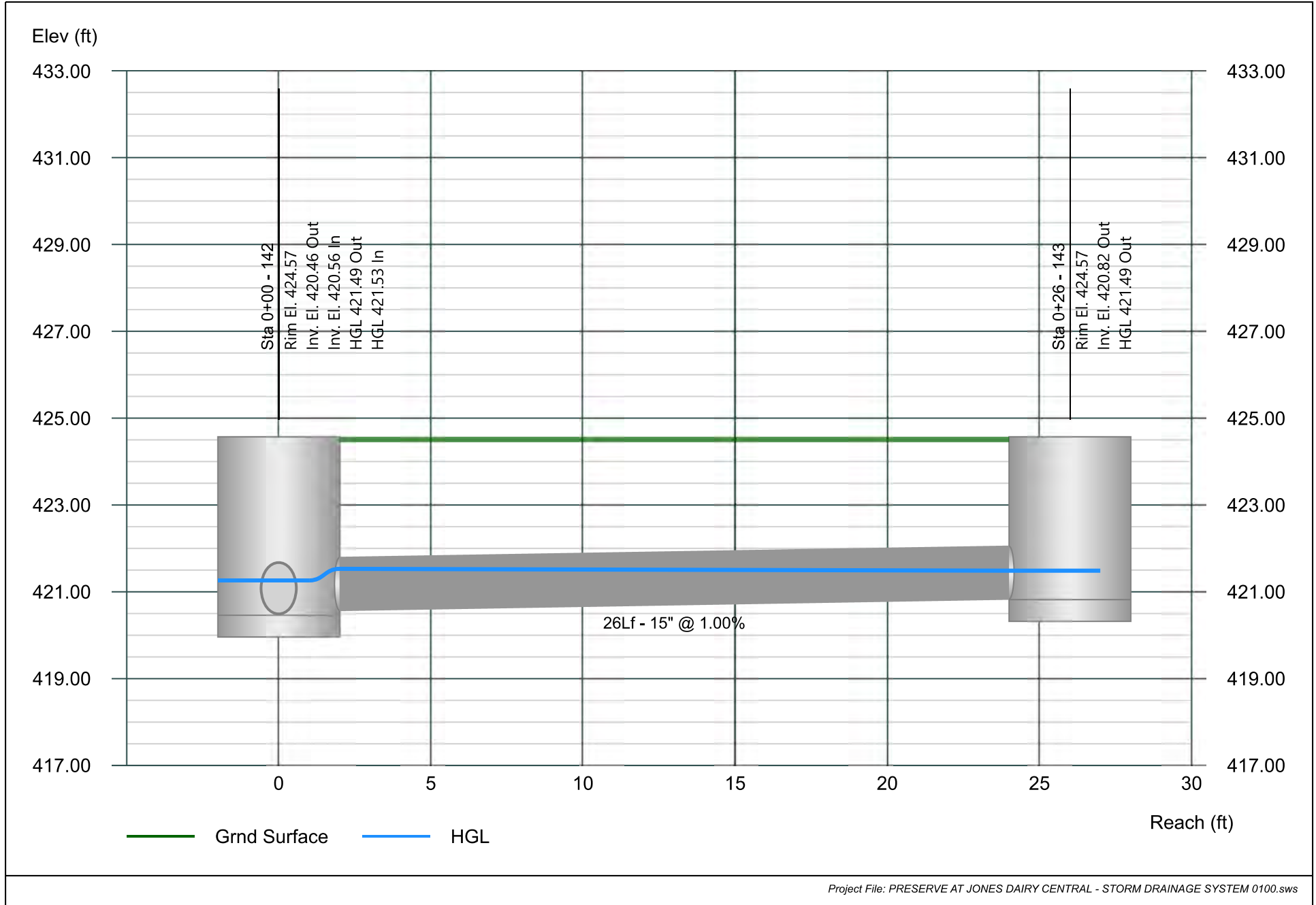
Line 41 - 141 TO 120



Line 42 - 142 TO 141



Line 43 - 143 TO 142

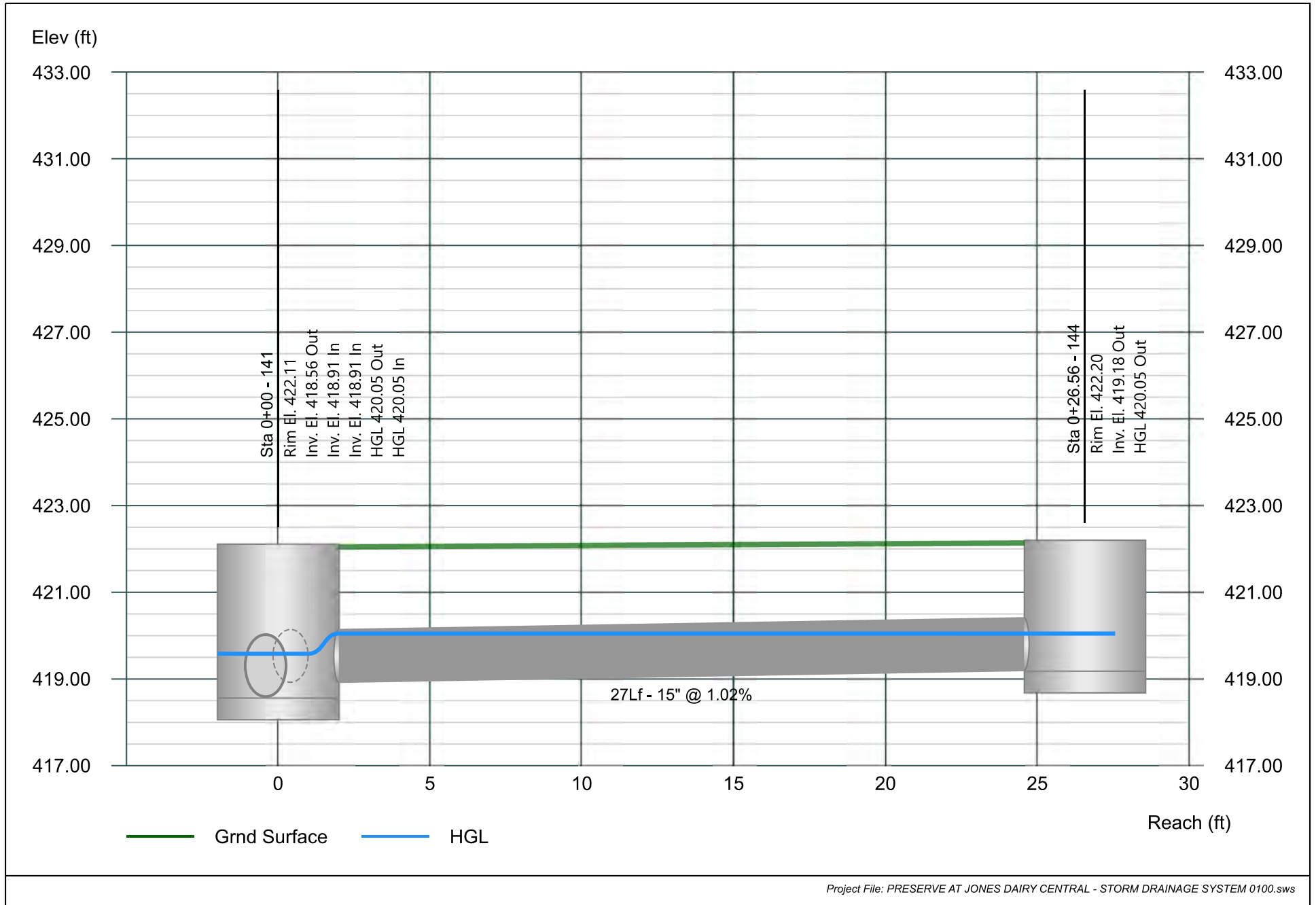


Line 44 - 144 TO 141

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

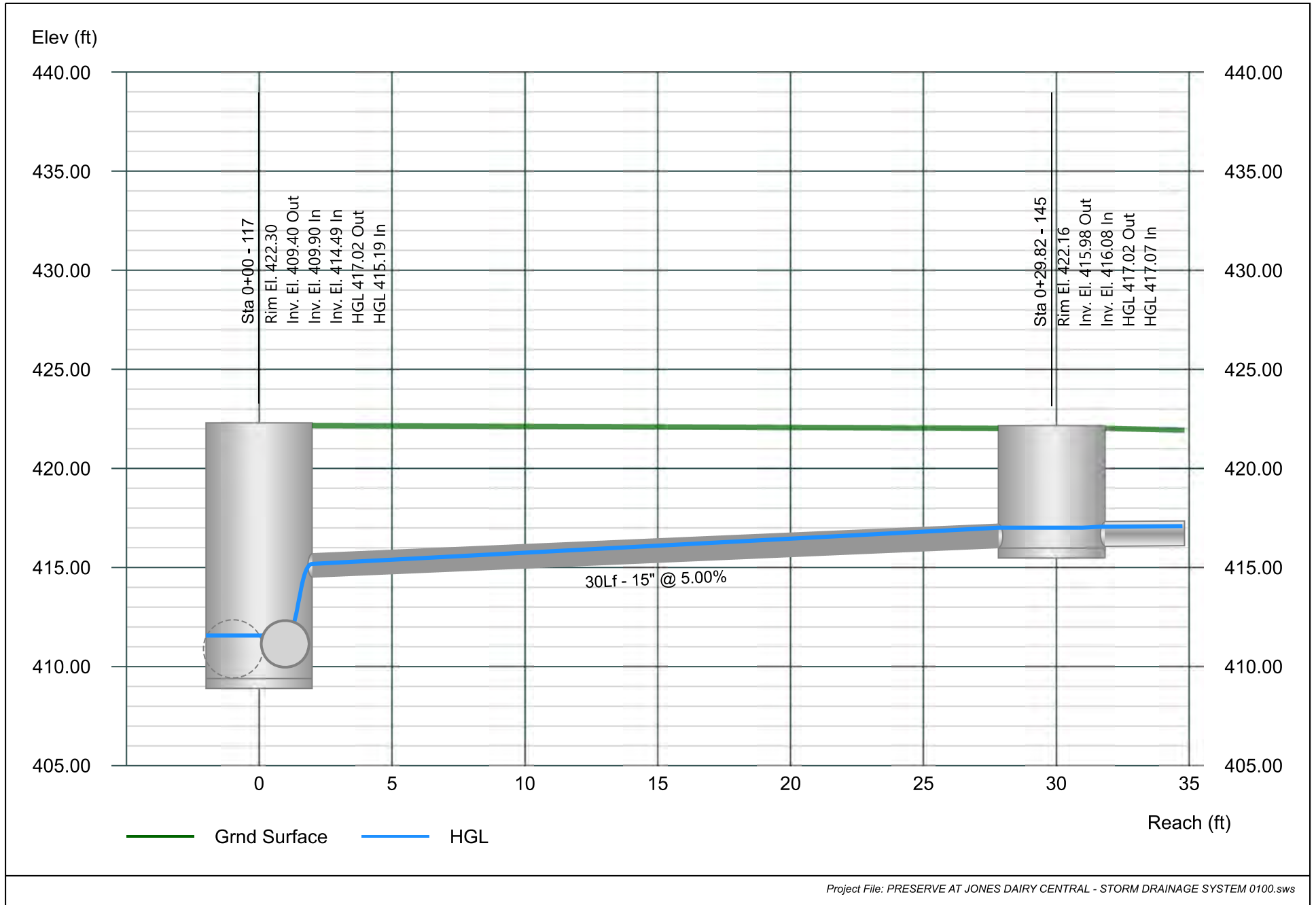


Line 45 - 145 to 117

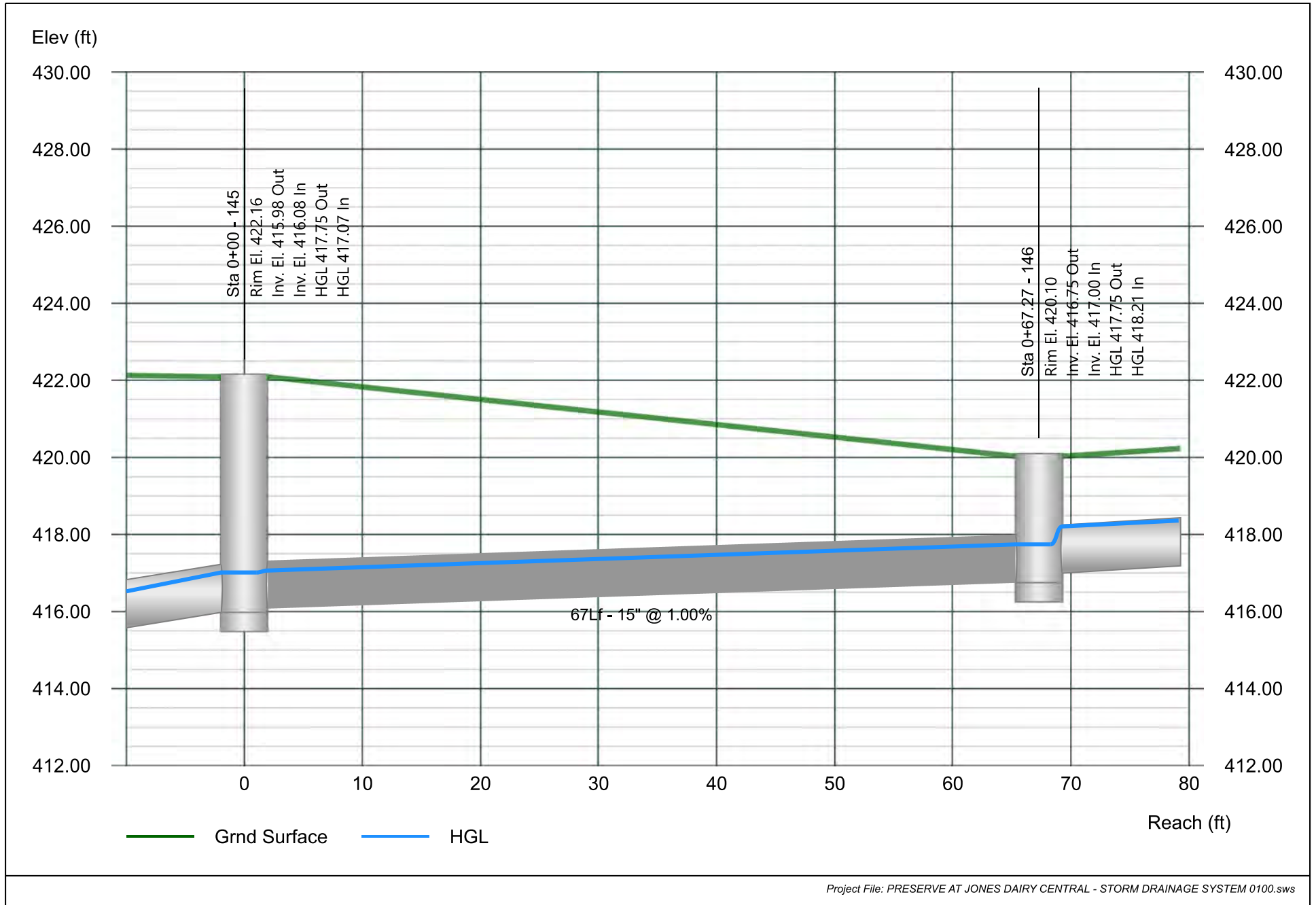
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

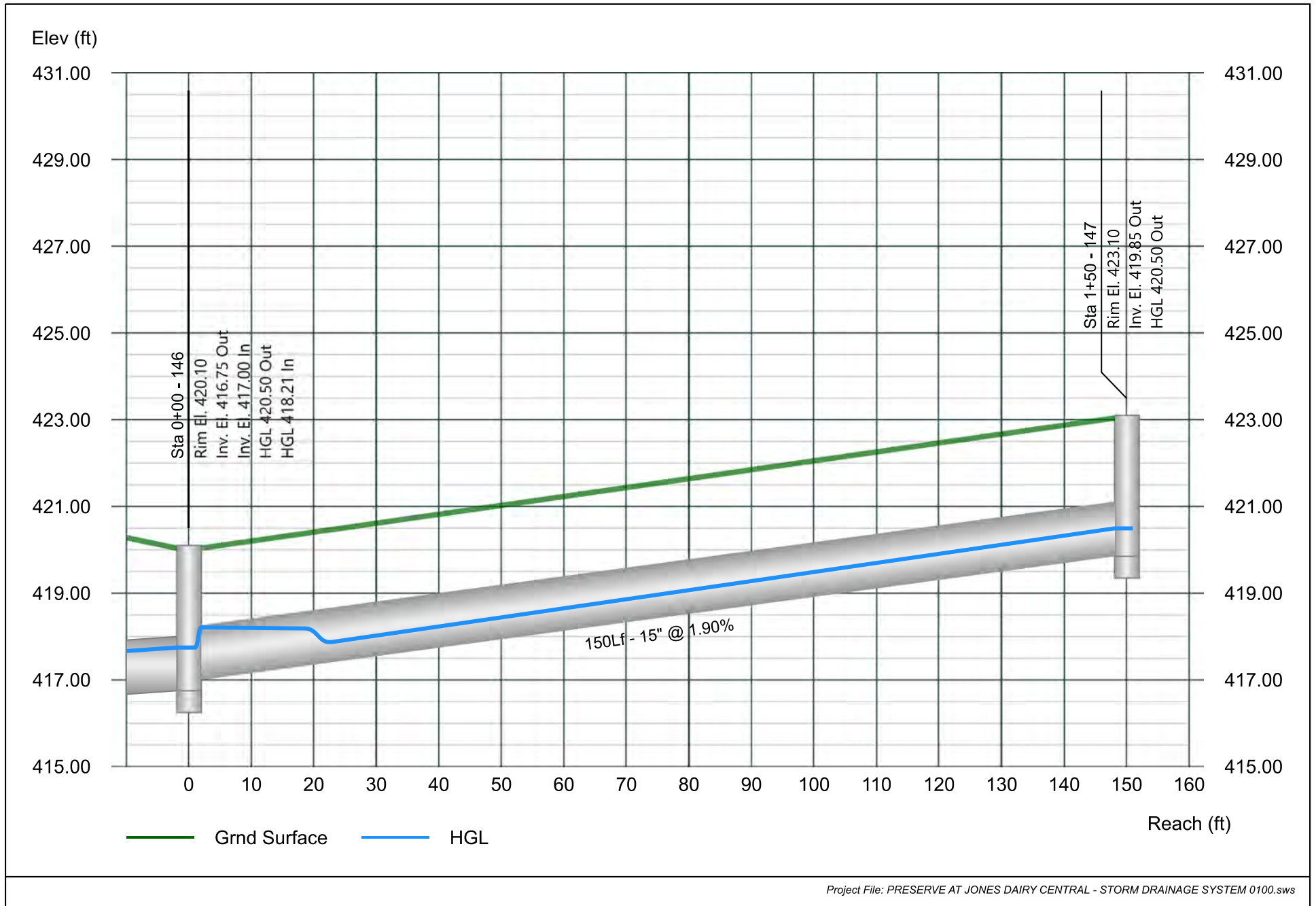
01-19-2024



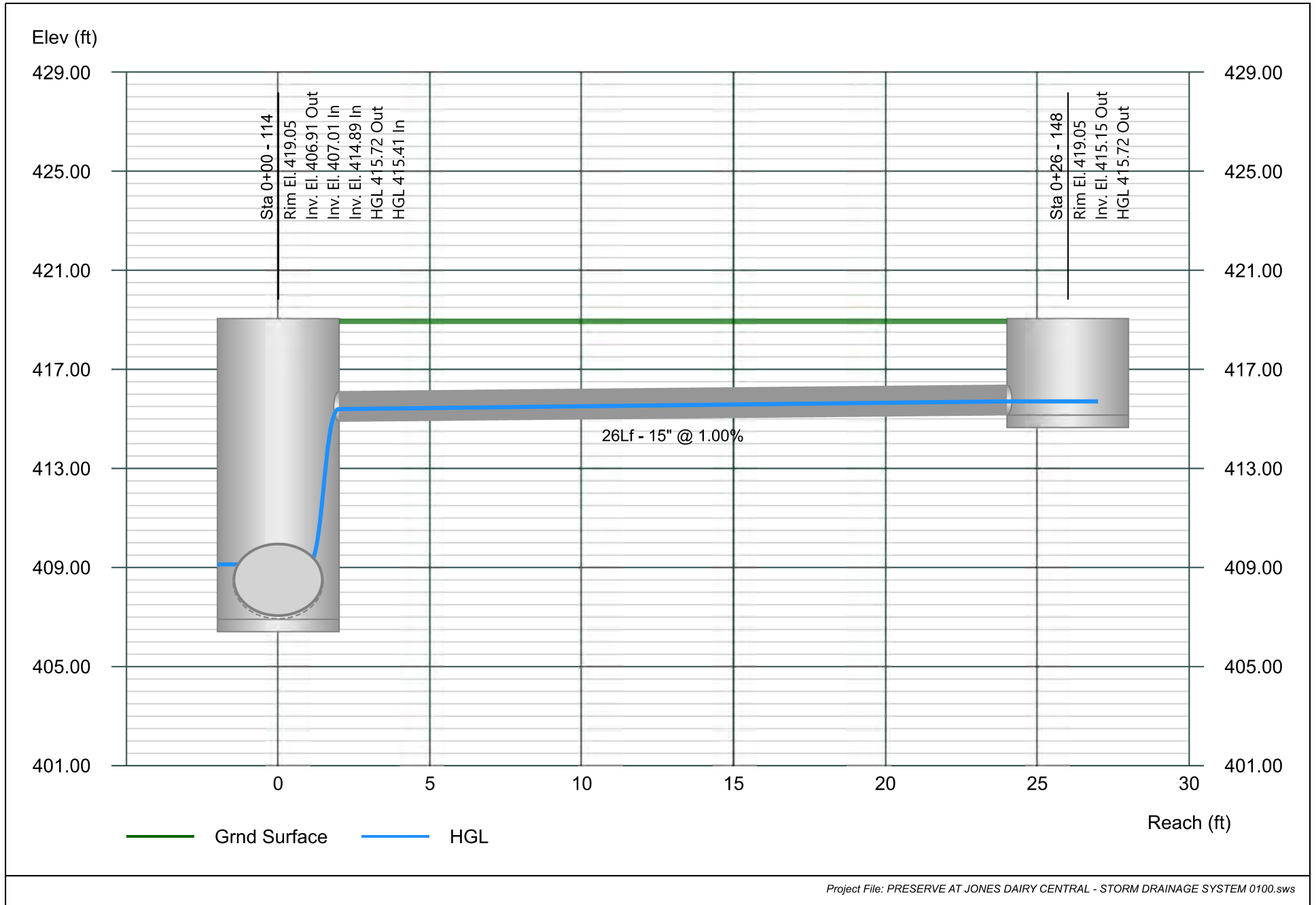
Line 46 - 146 to 145



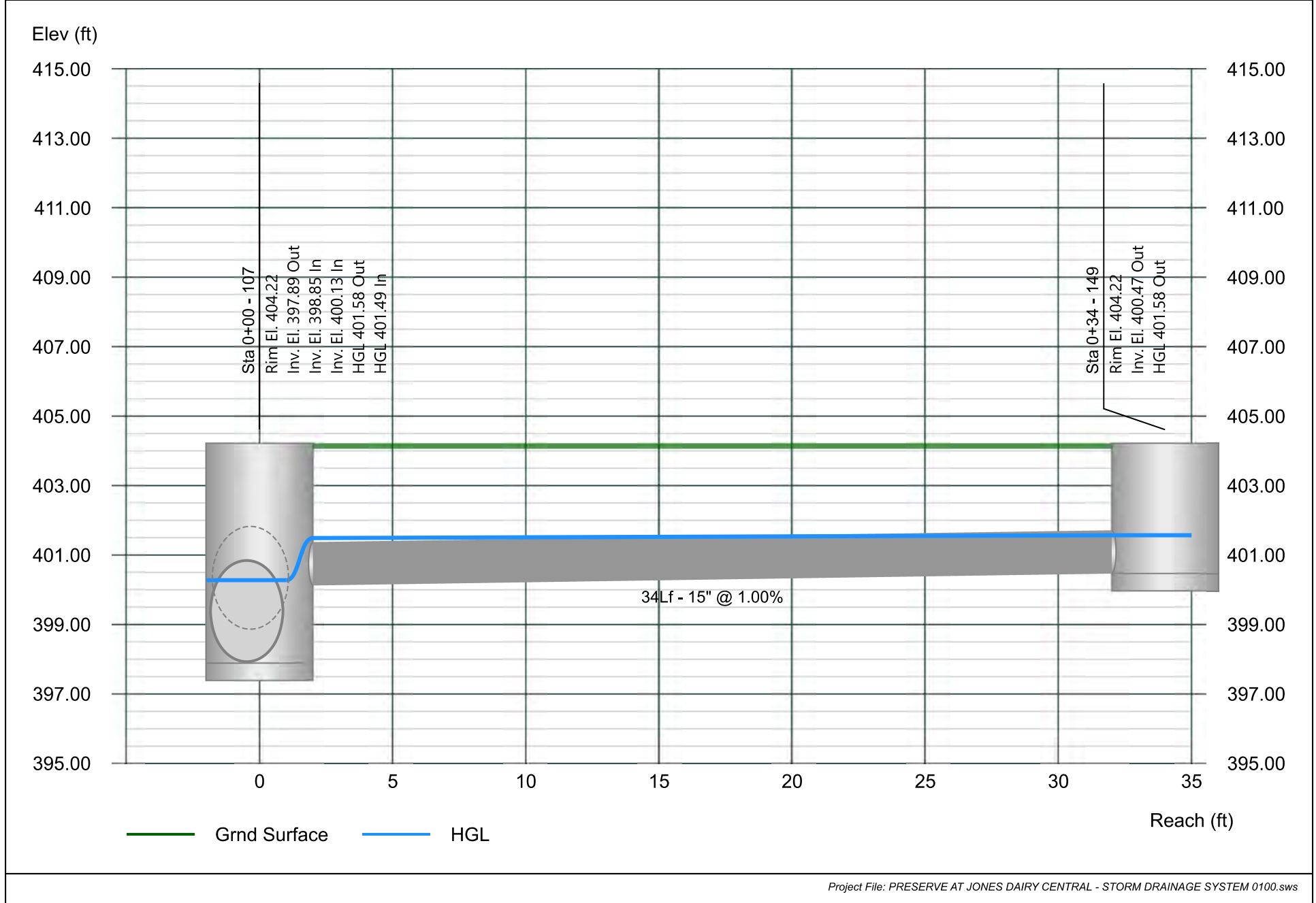
Line 47 - 147 to 146



Line 48 - 148 TO 114



Line 49 - 149 TO 107

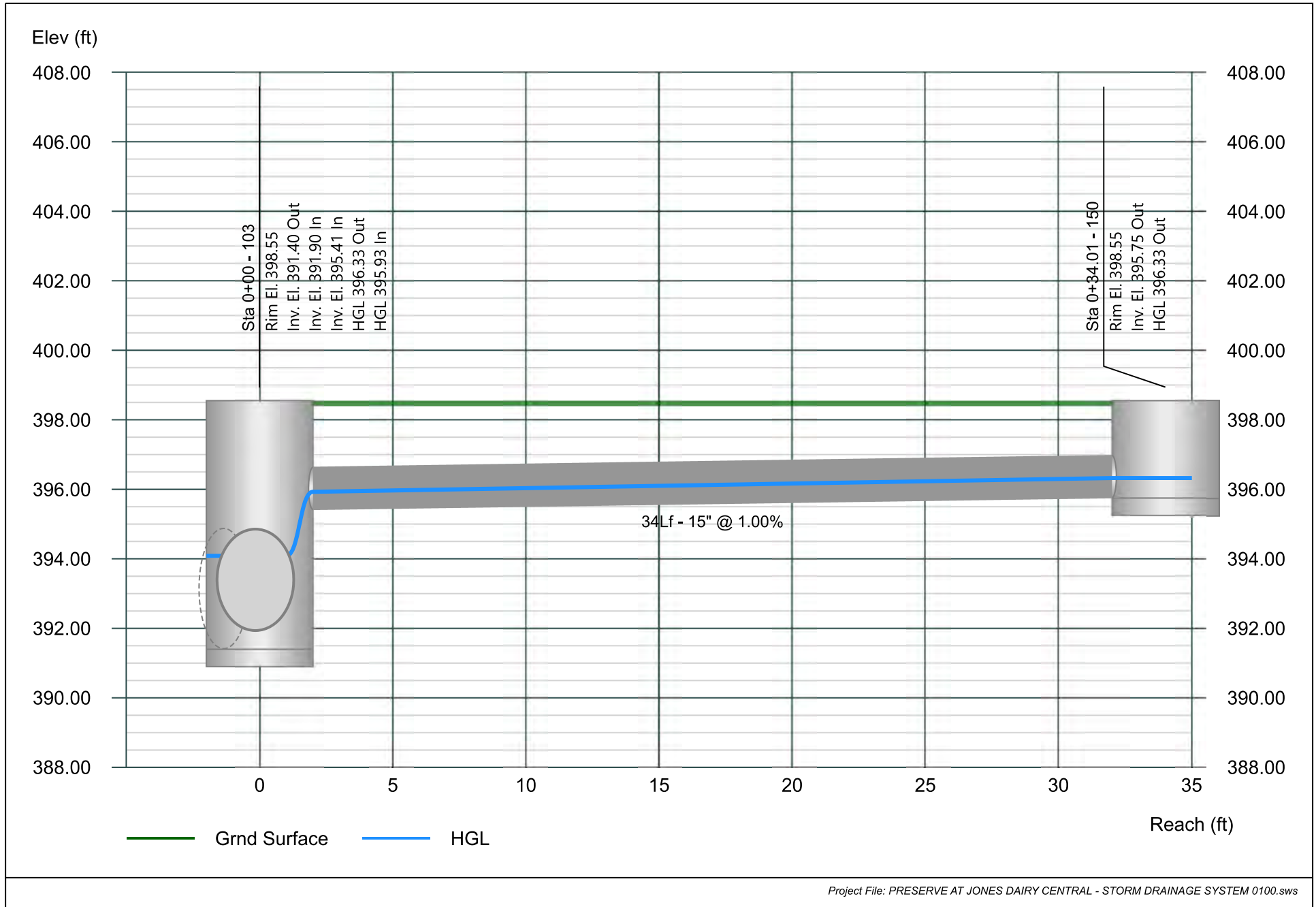


Line 50 - 150 TO 103

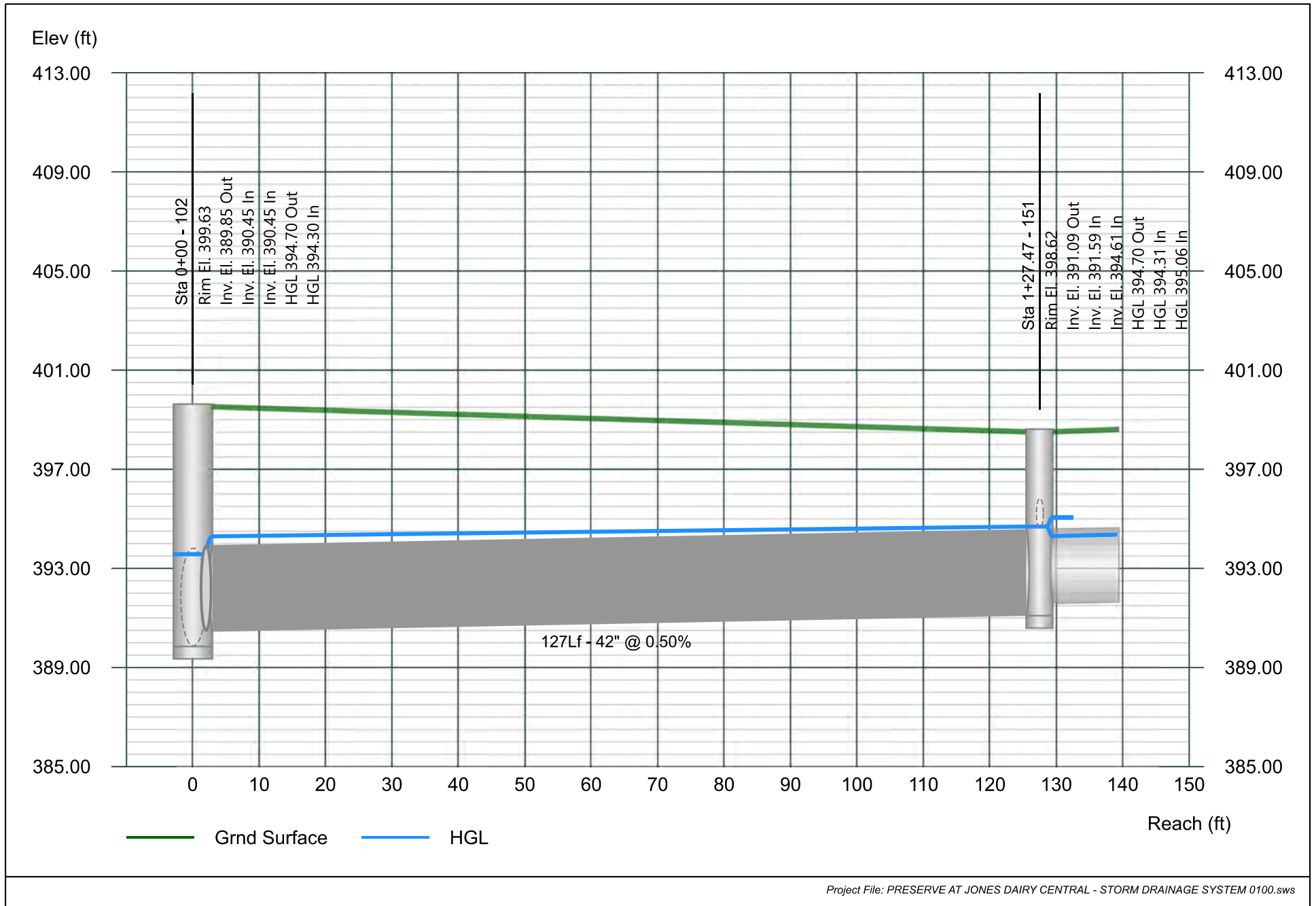
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 51 - 151 TO 102

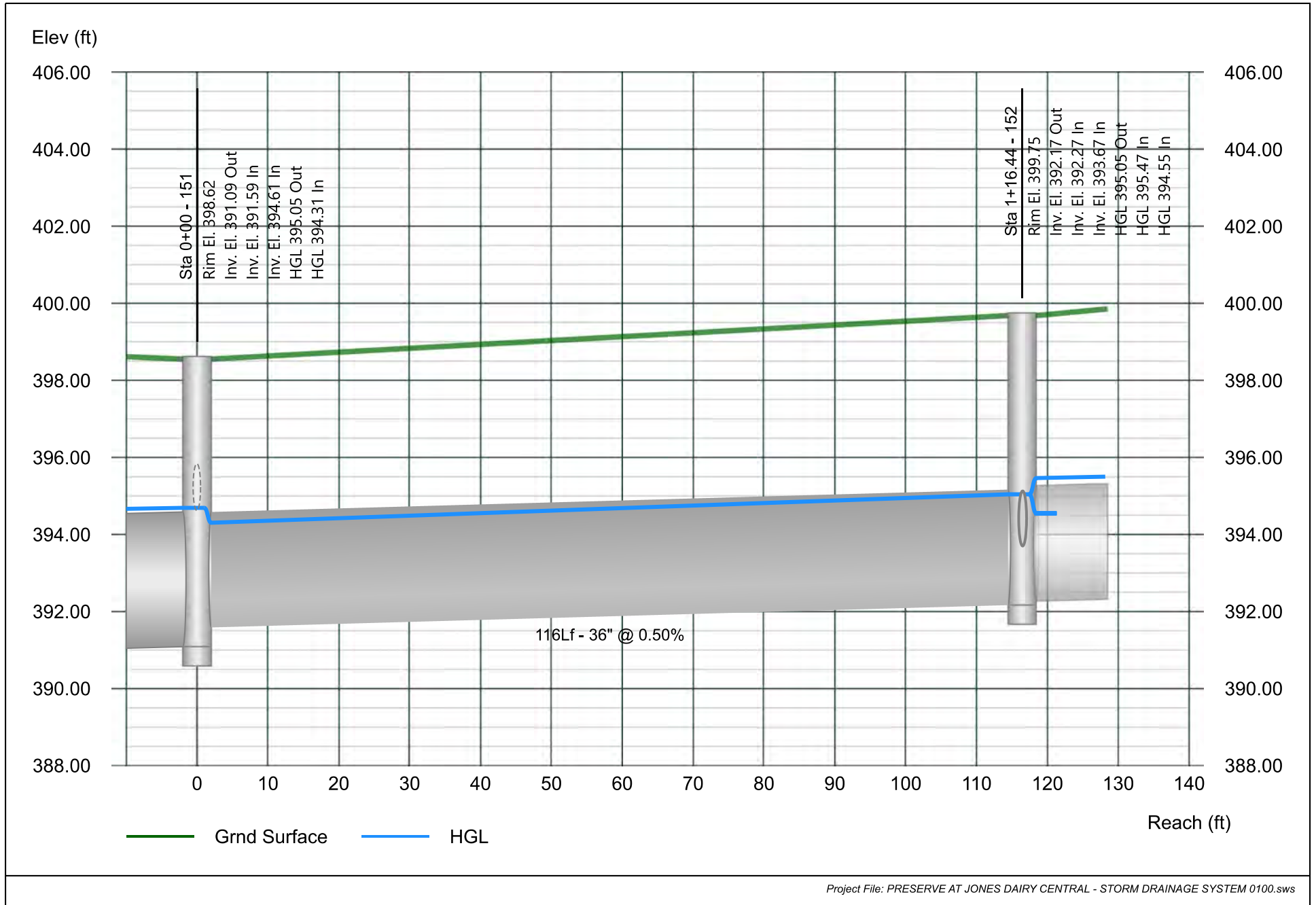


Line 52 - 152 TO 151

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

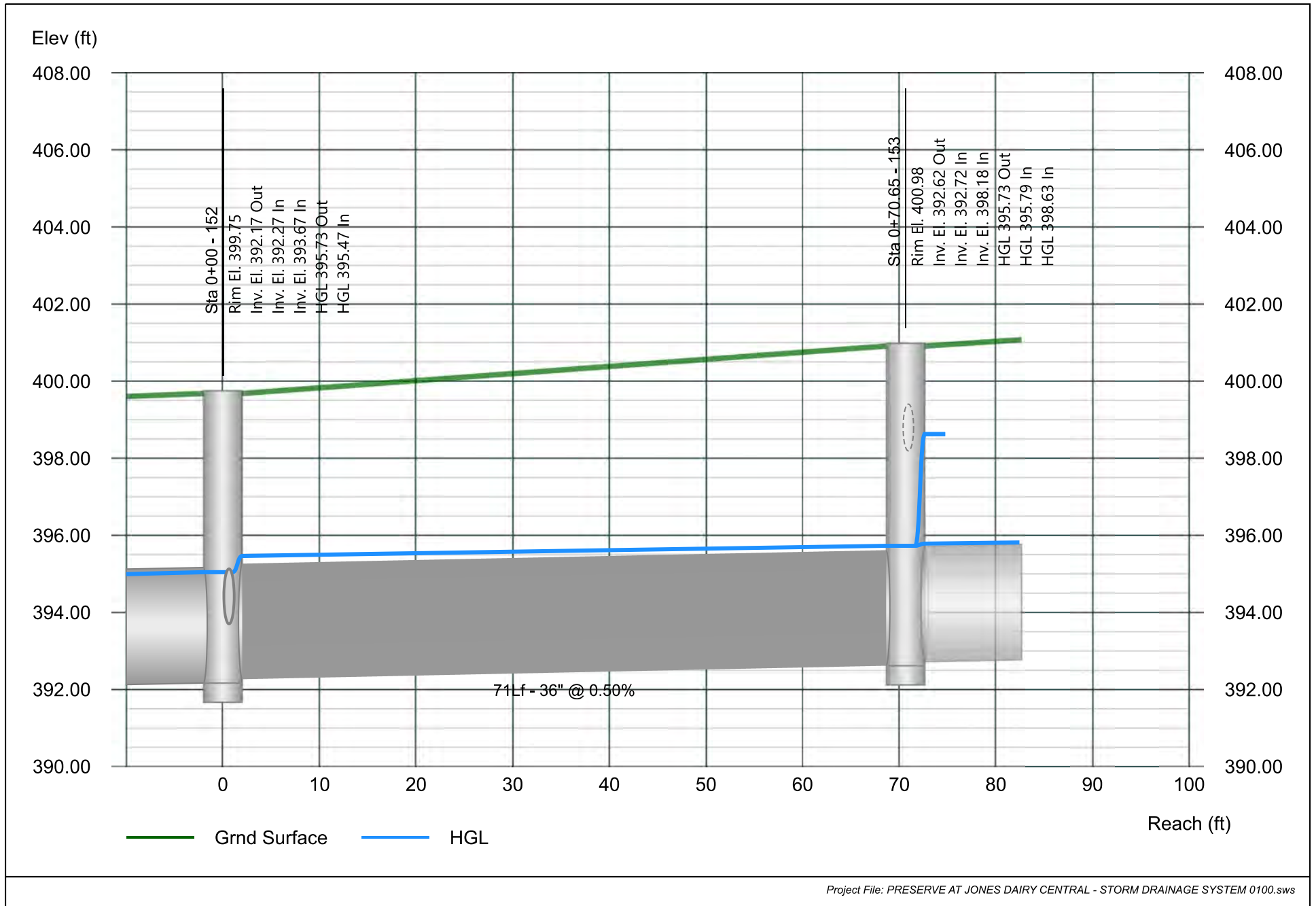


Line 53 - 153 TO 152

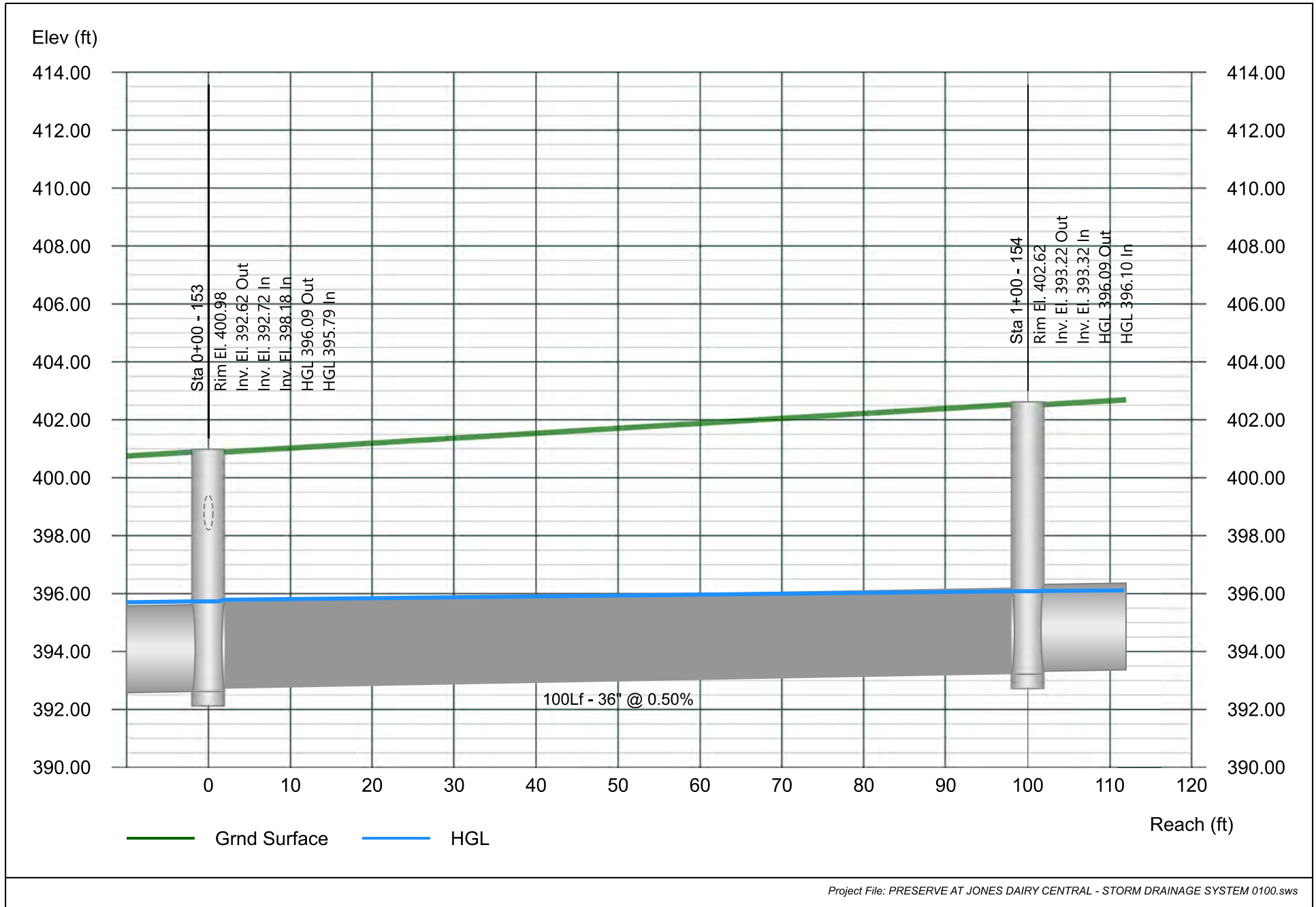
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 54 - 154 TO 153

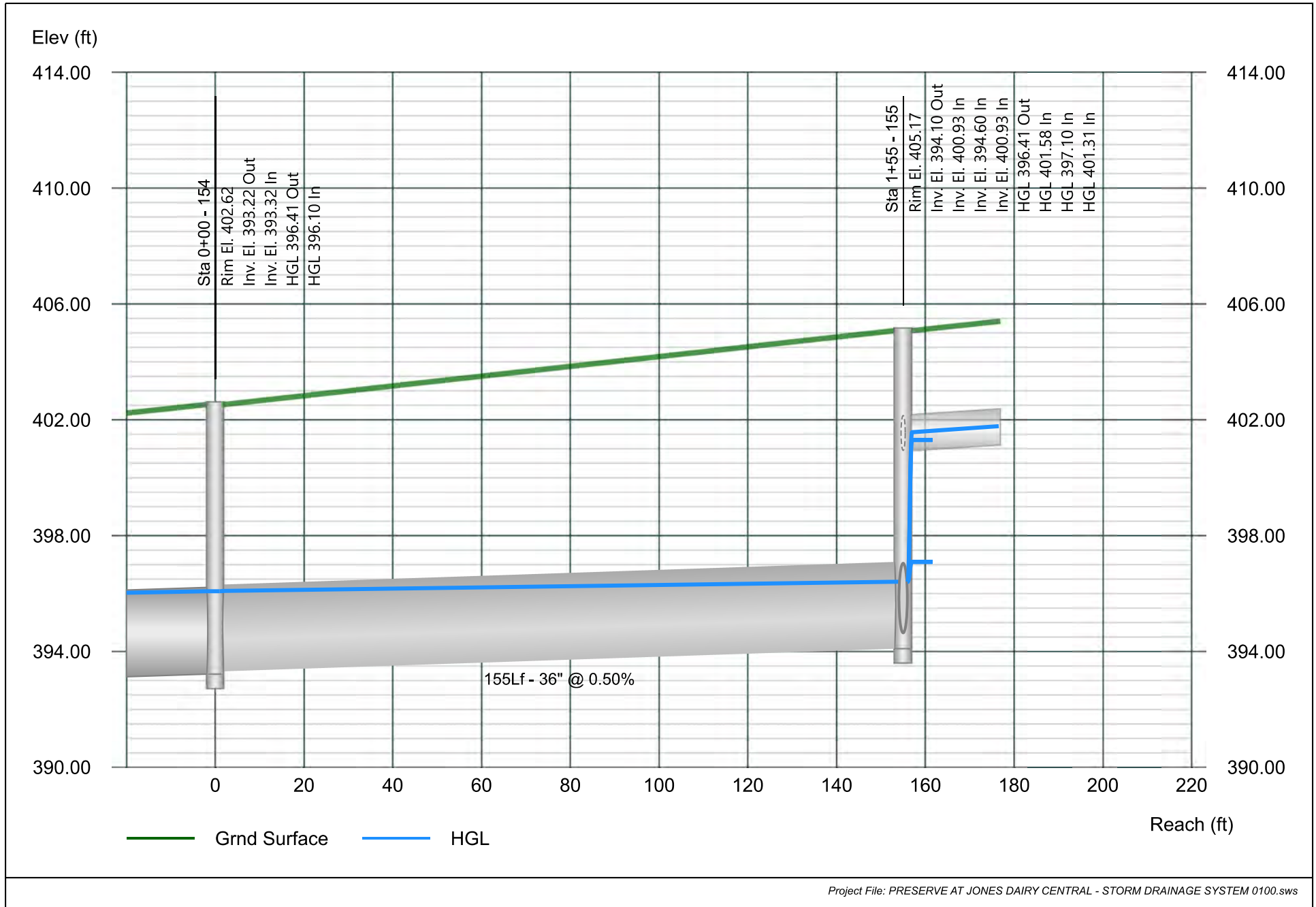


Line 55 - 155 TO 154

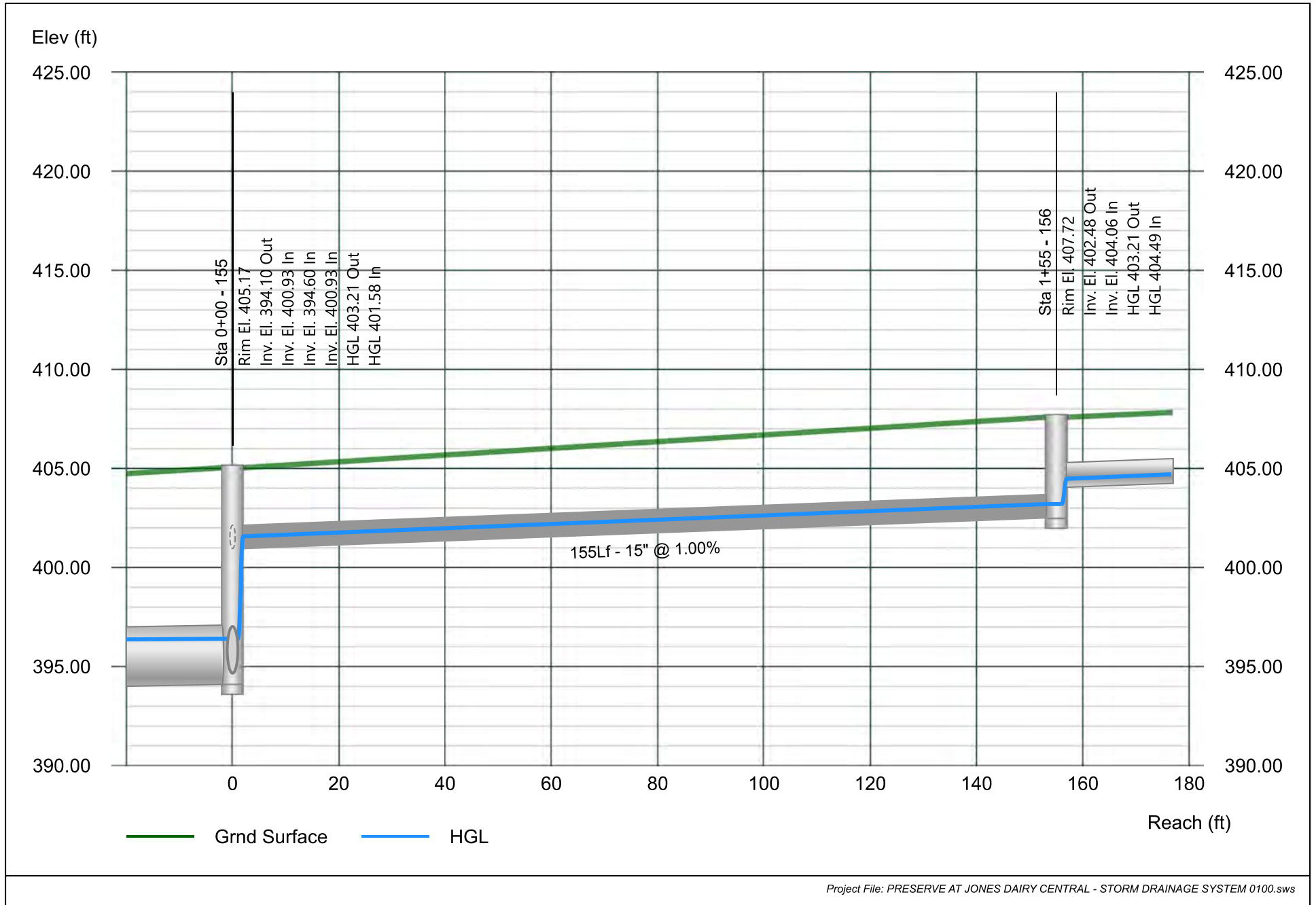
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 56 - 156 TO 155

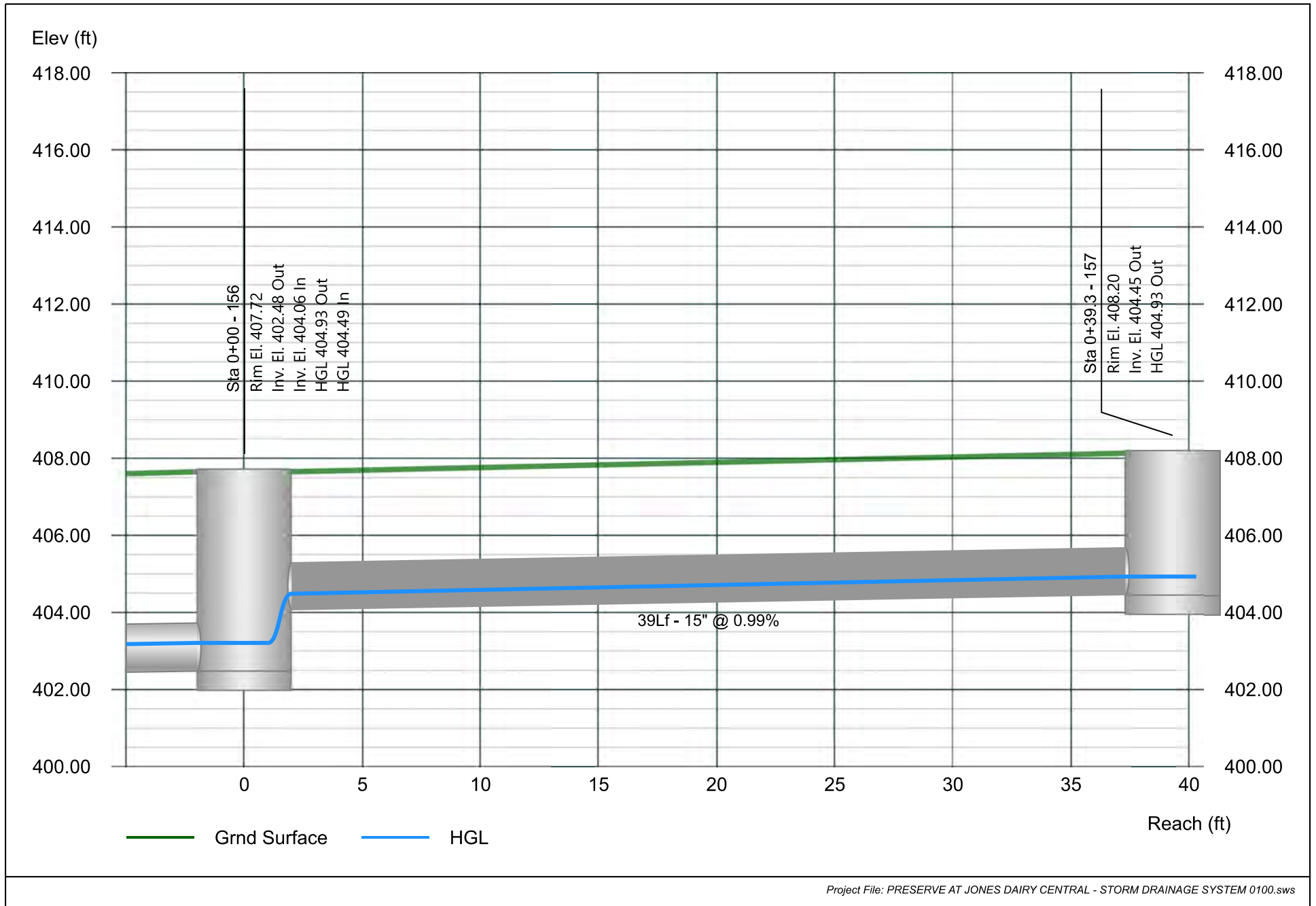


Line 57 - 157 TO 156

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

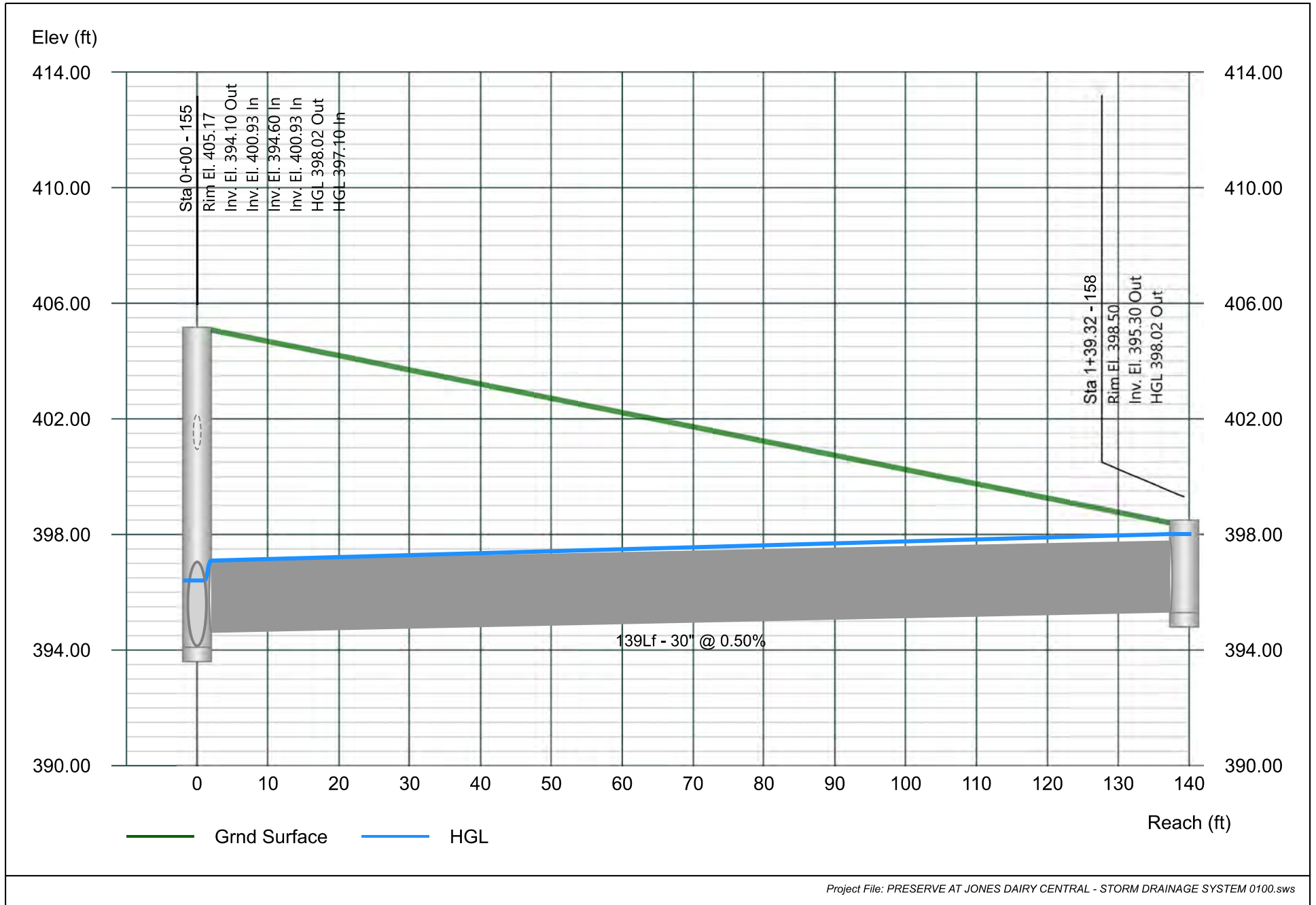


Line 58 - 158 TO 155

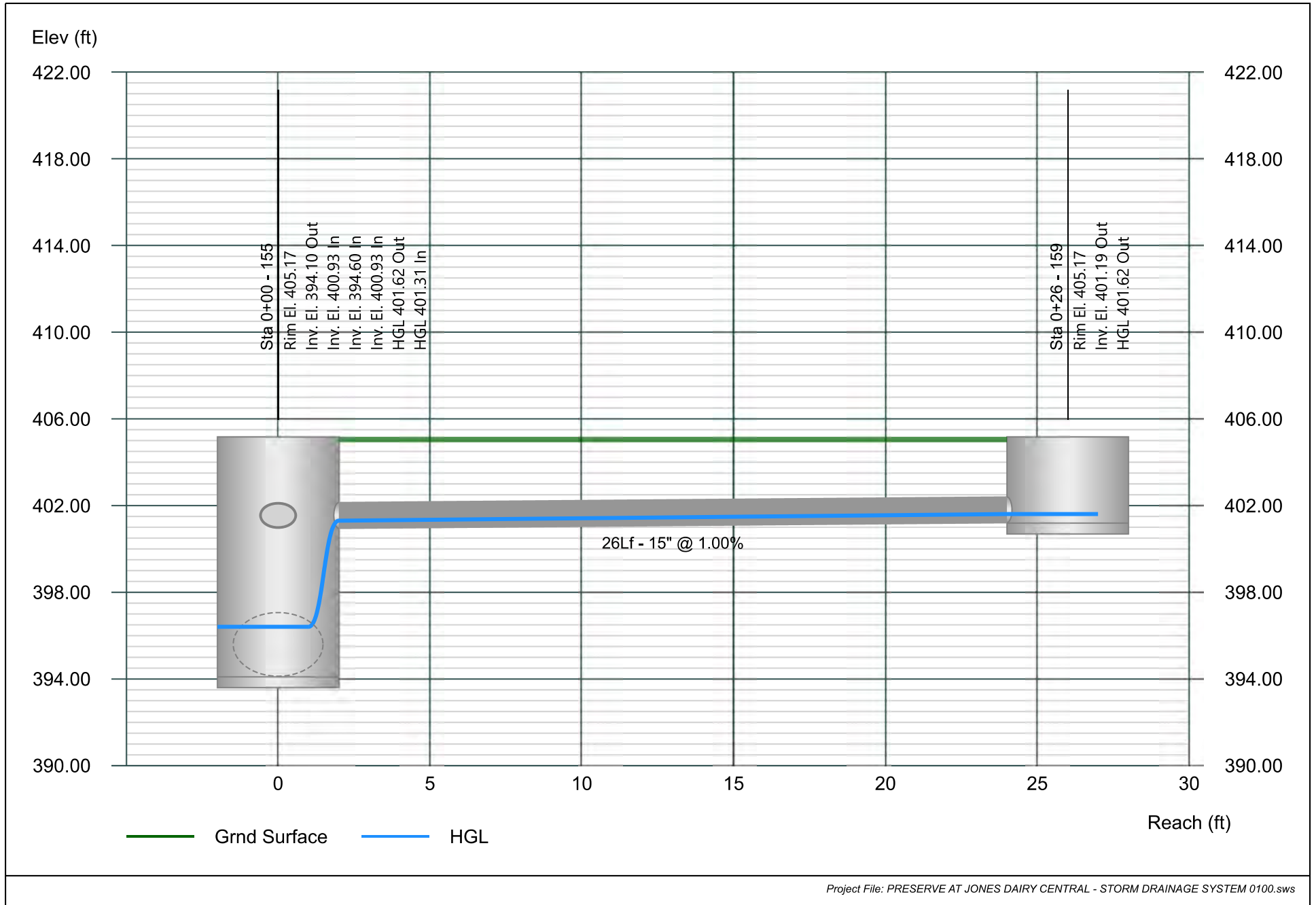
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

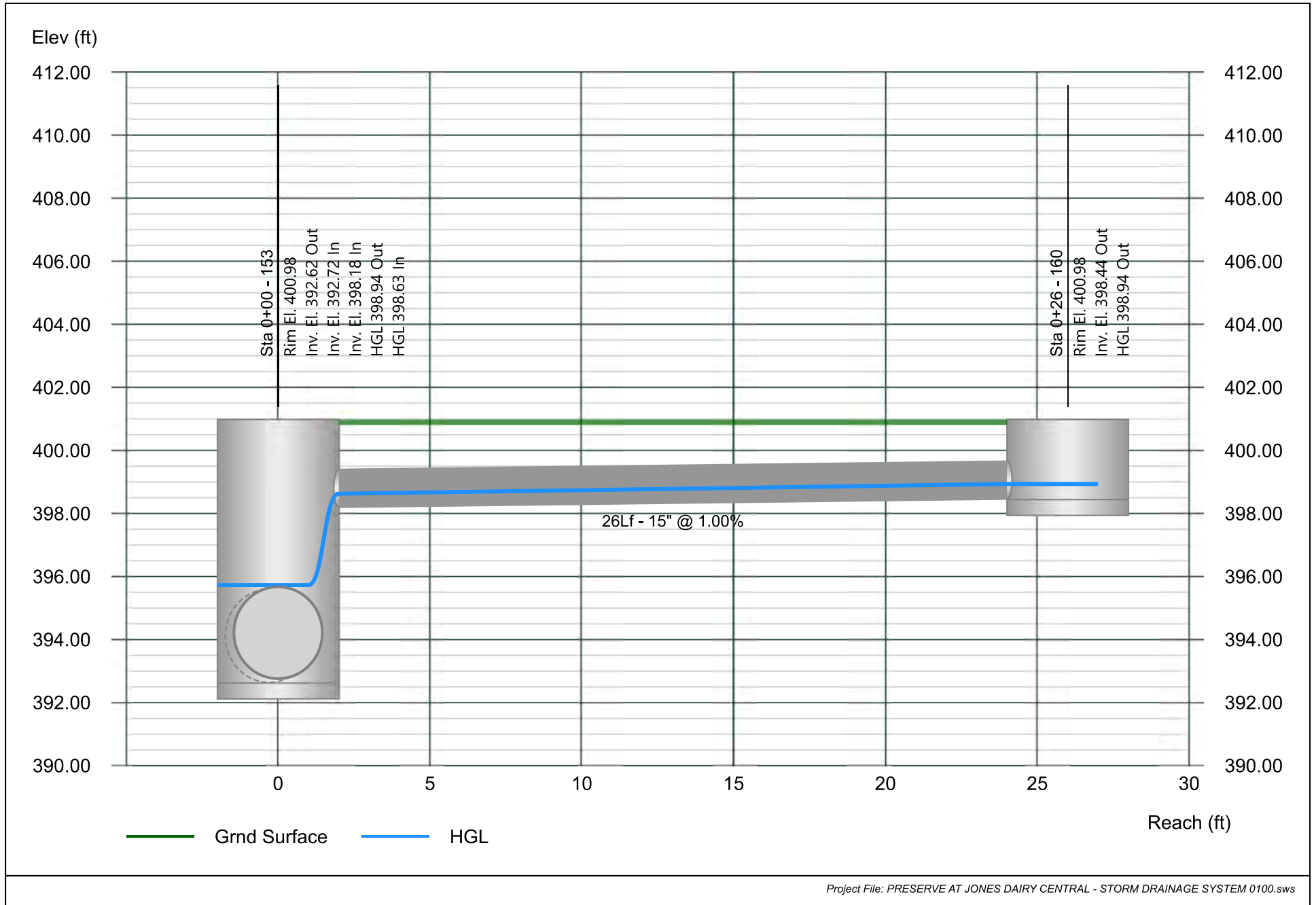
01-19-2024



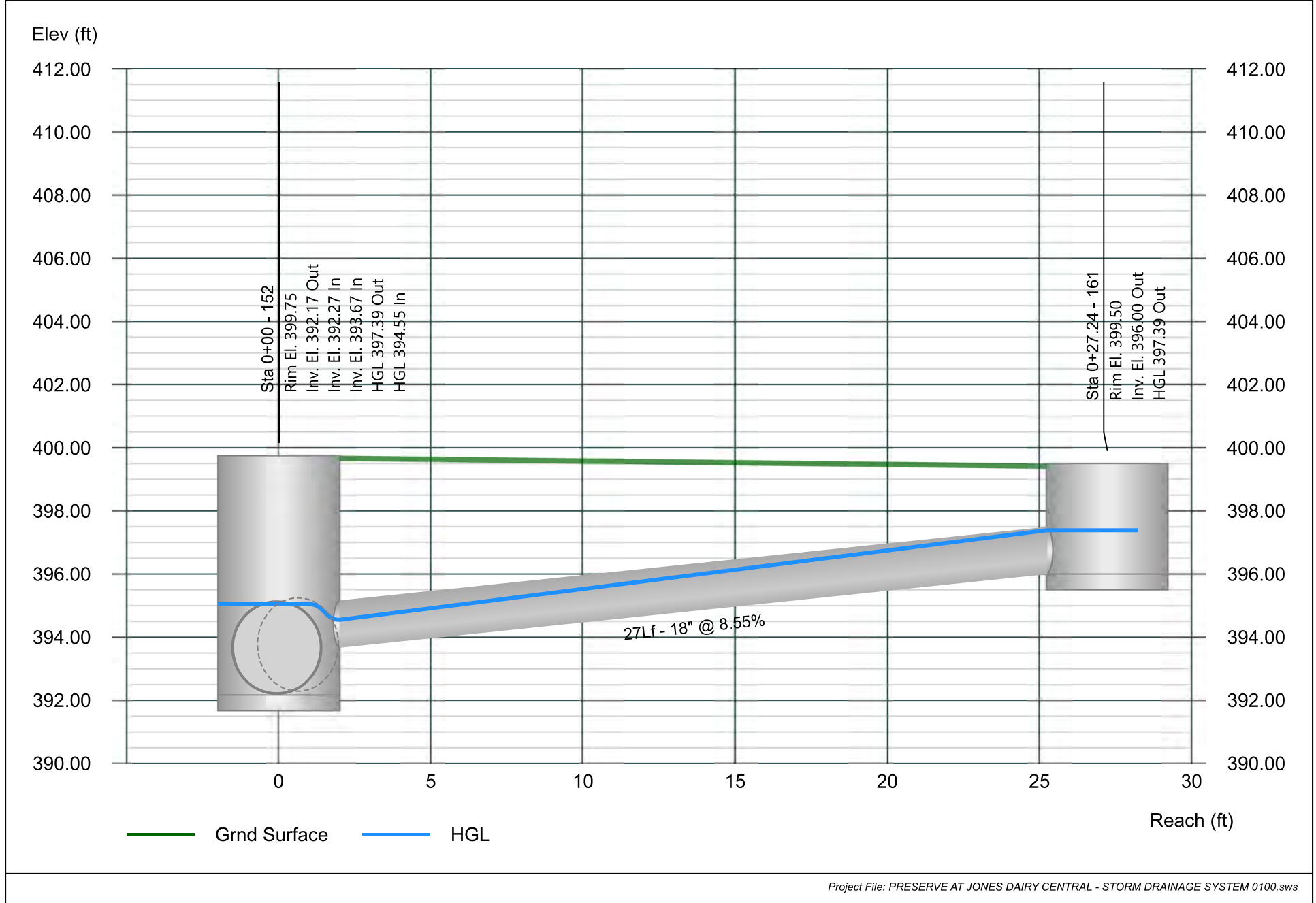
Line 59 - 159 TO 155



Line 60 - 160 TO 153



Line 61 - 161 TO 152

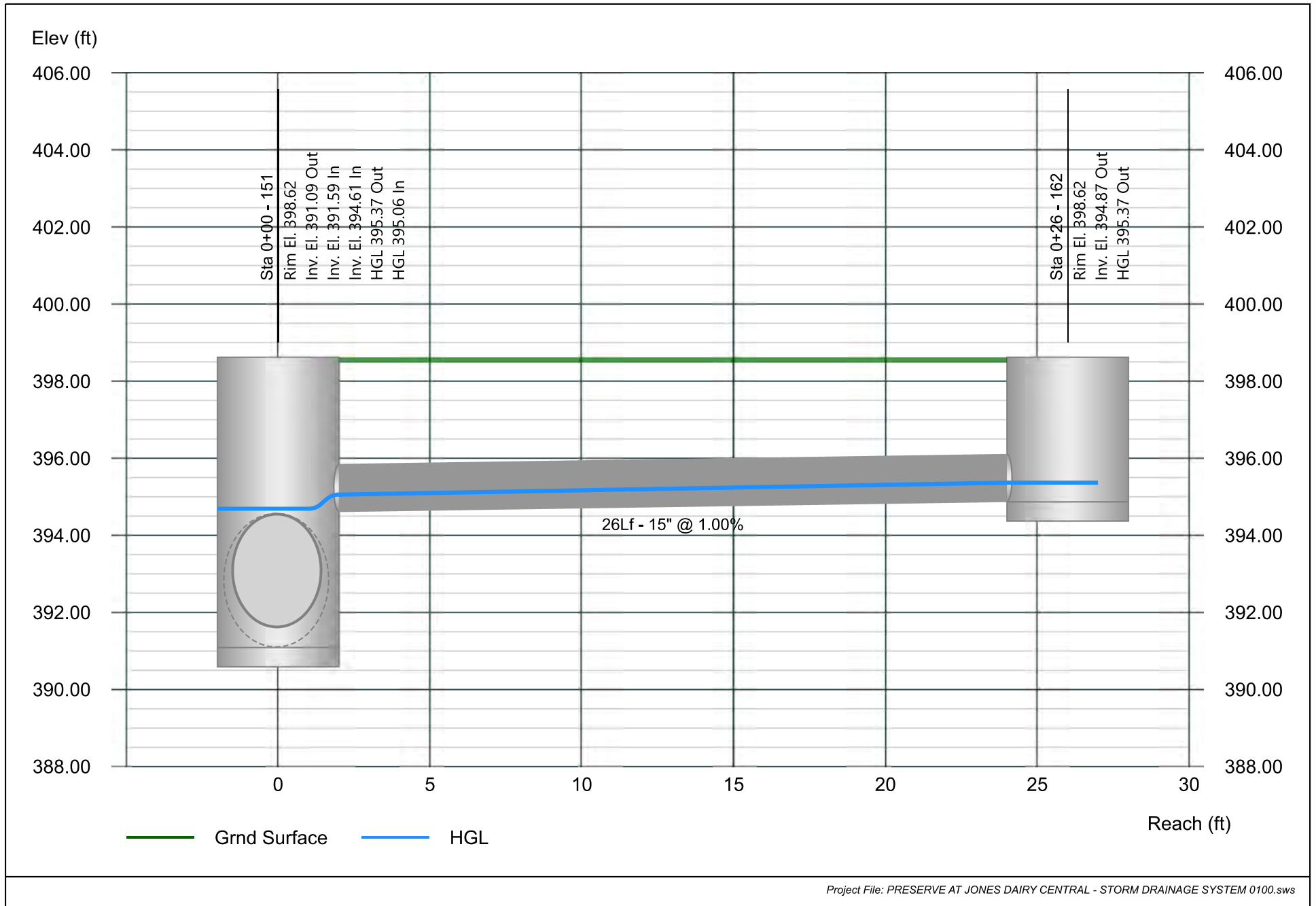


Line 62 - 163 TO 151

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

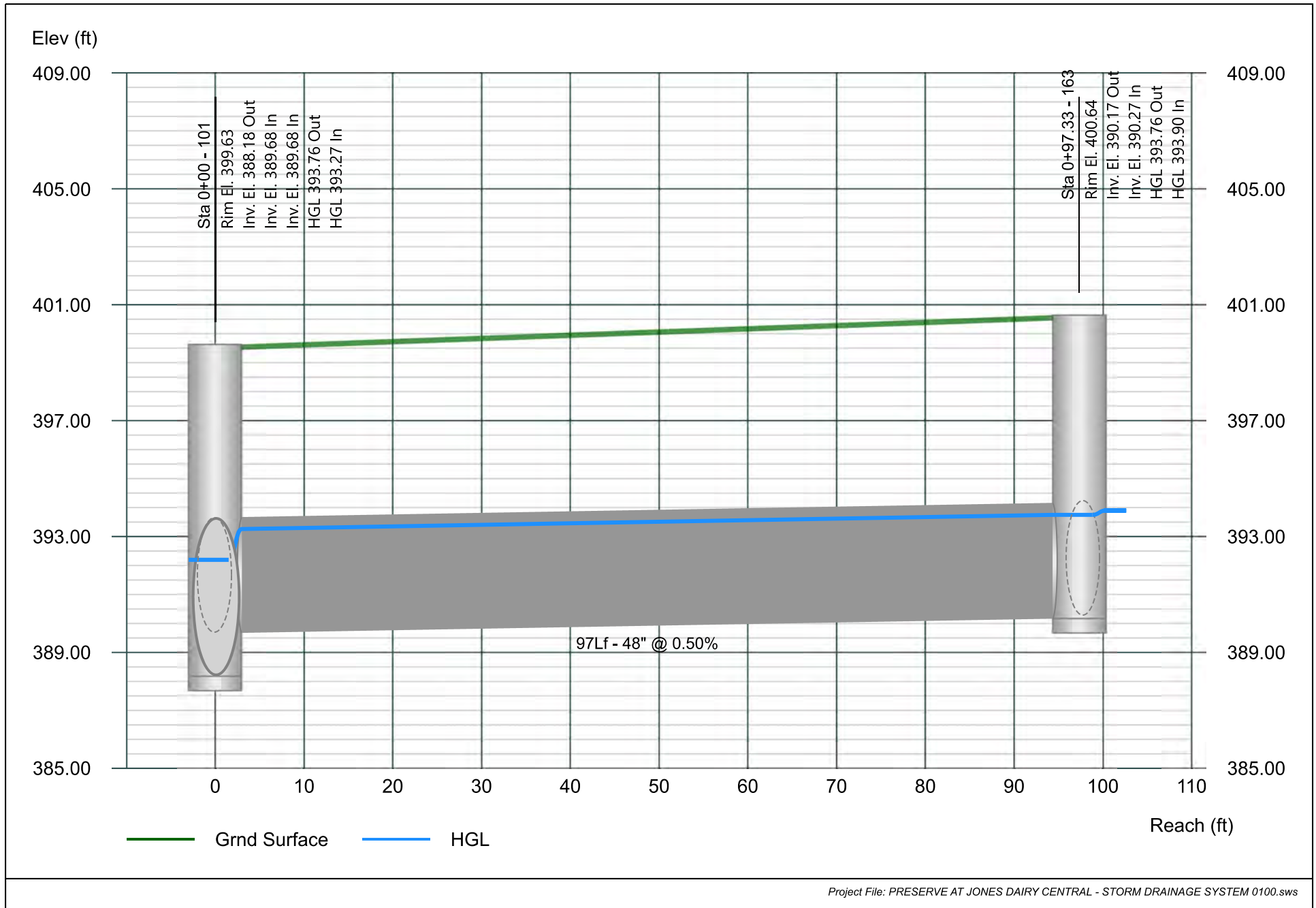


Line 63 - 163 TO 101

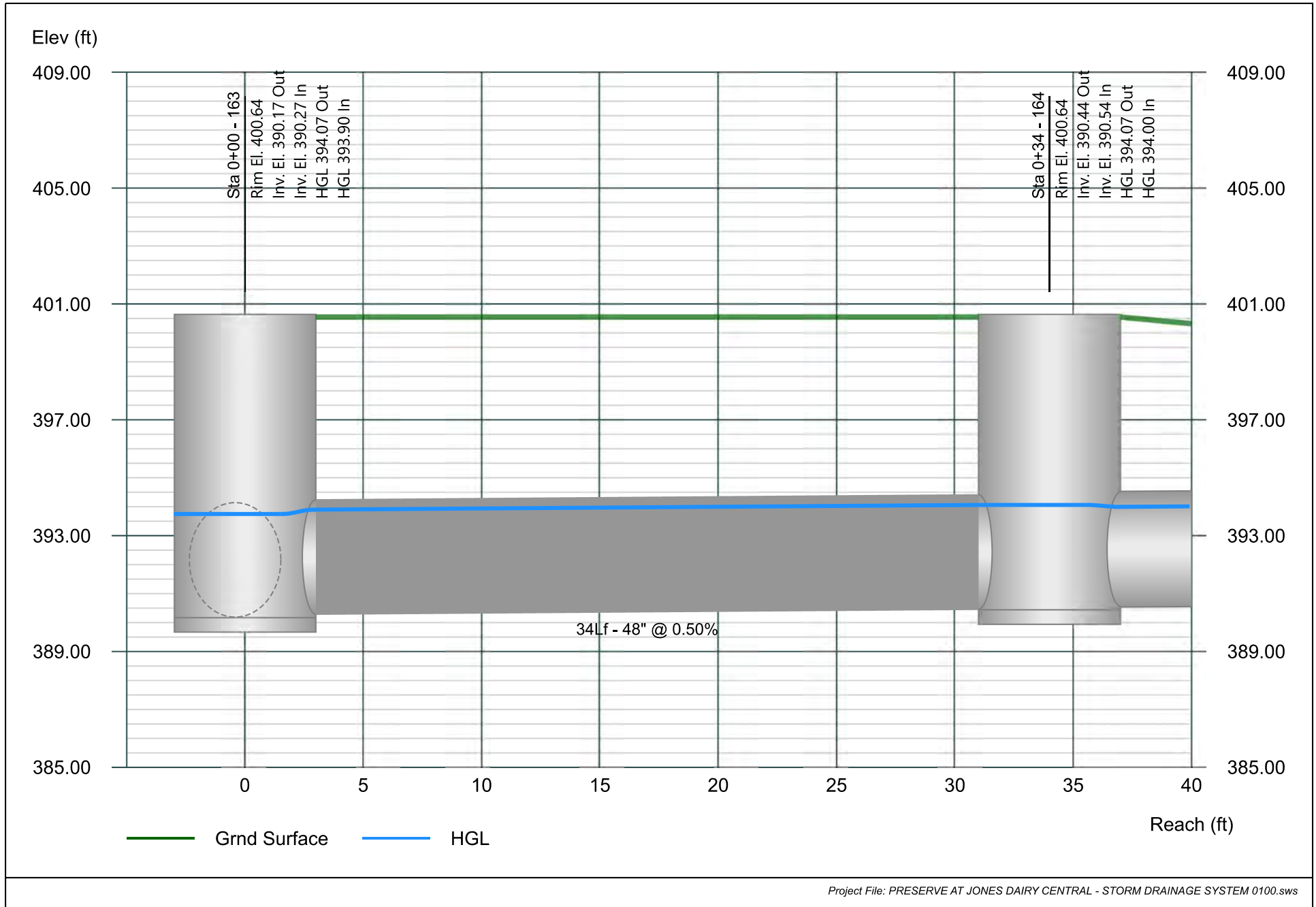
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 64 - 164 TO 163

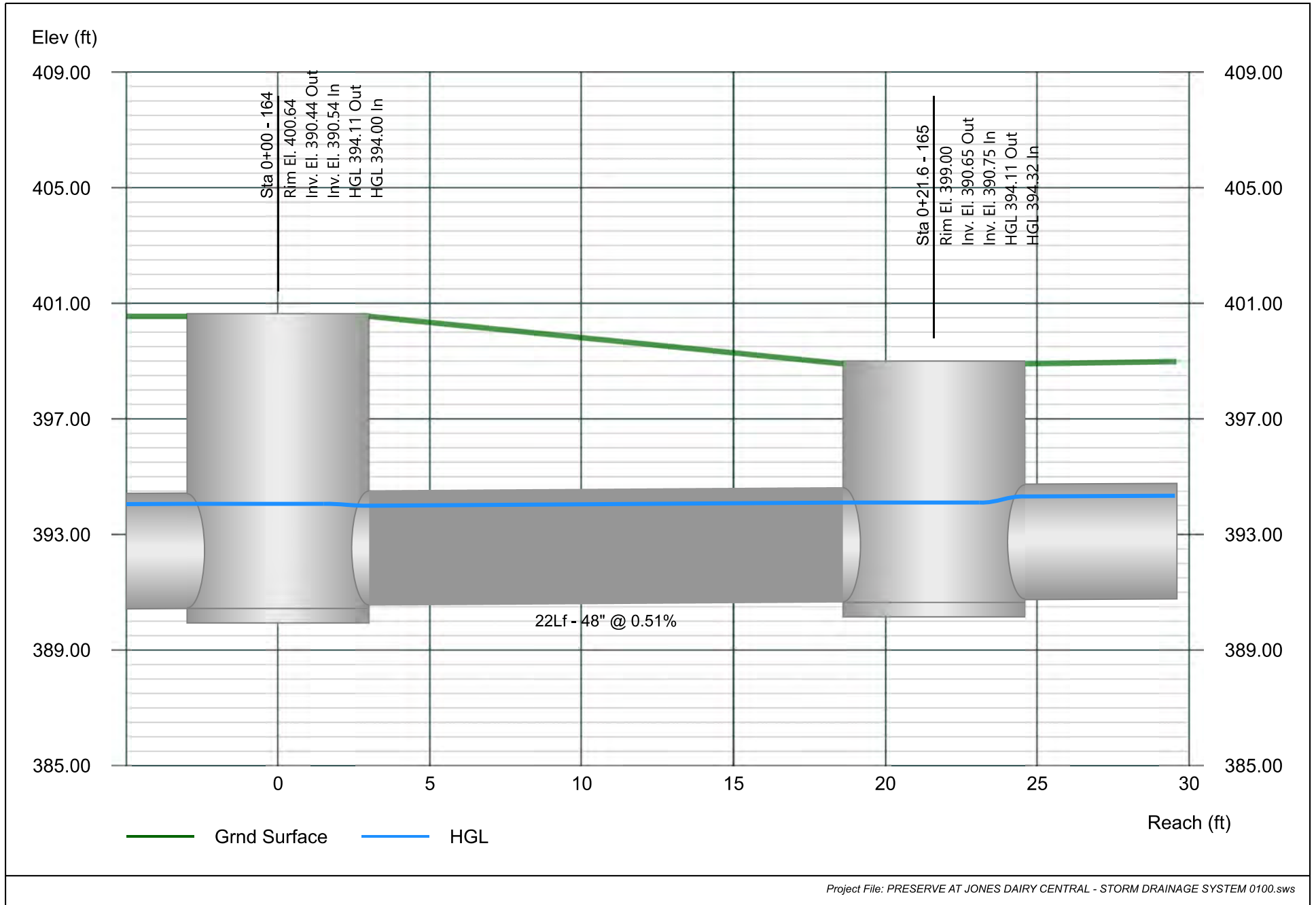


Line 65 - 165 TO 164

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

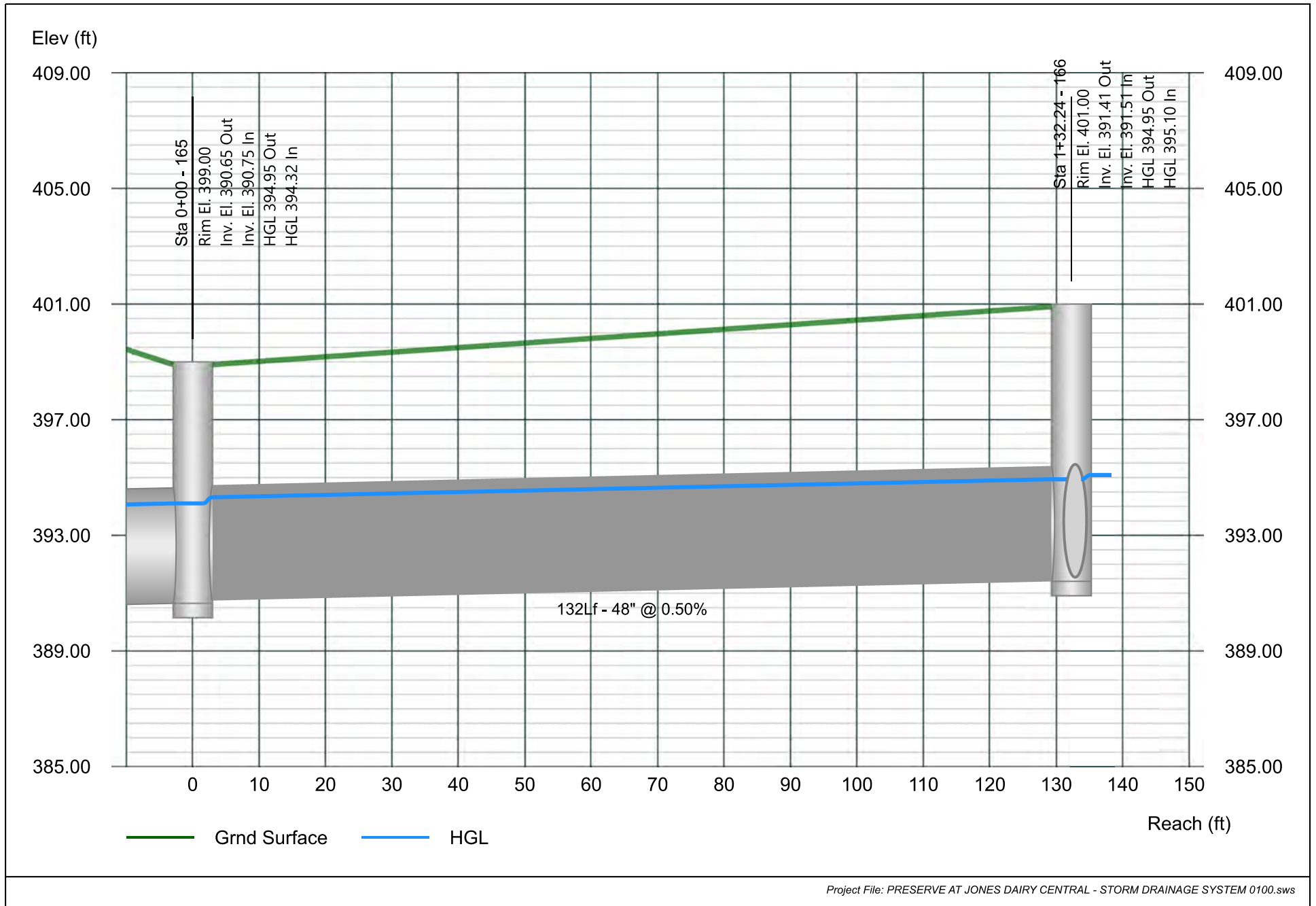


Line 66 - 166 TO 165

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

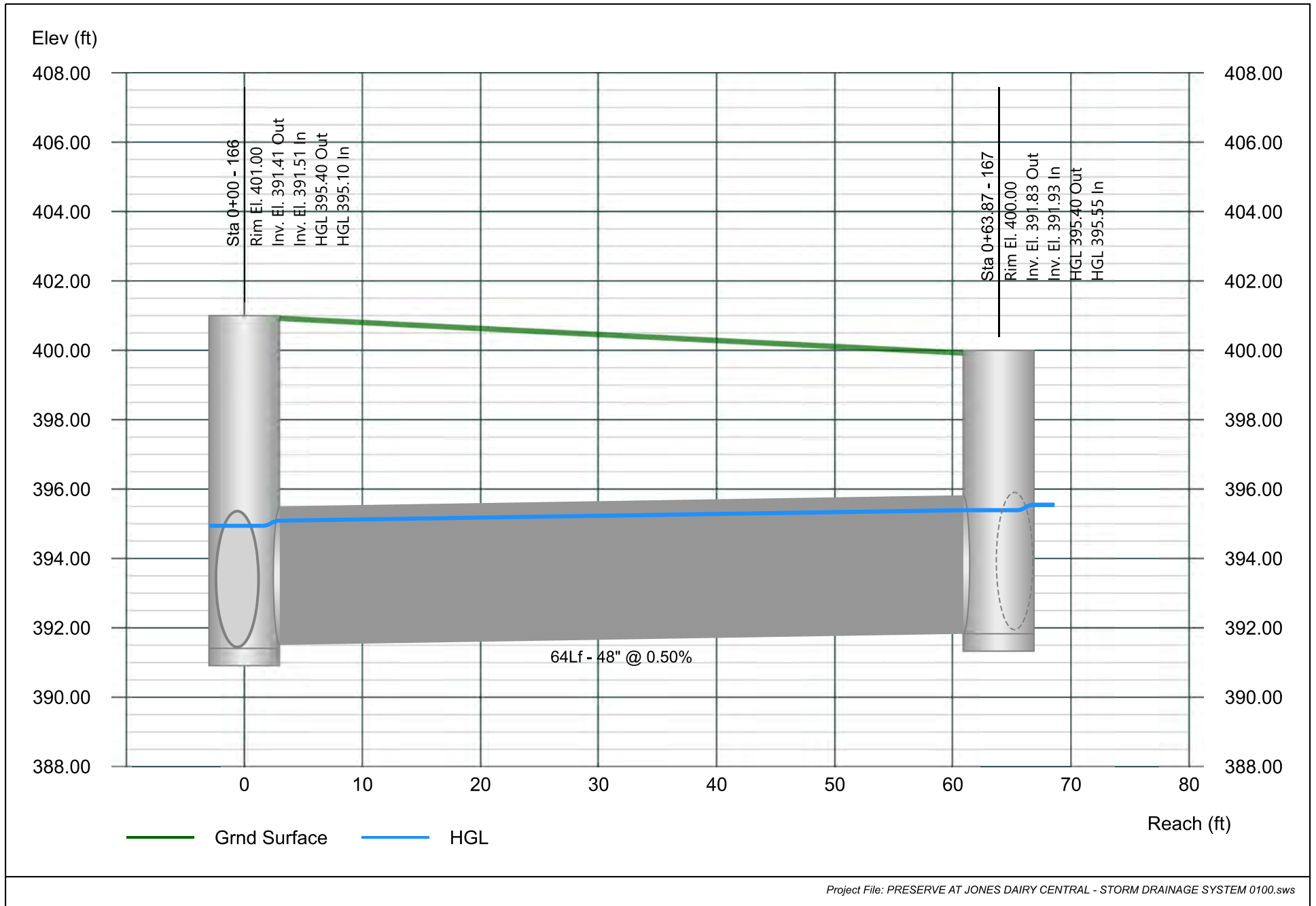


Line 67 - 167 TO 166

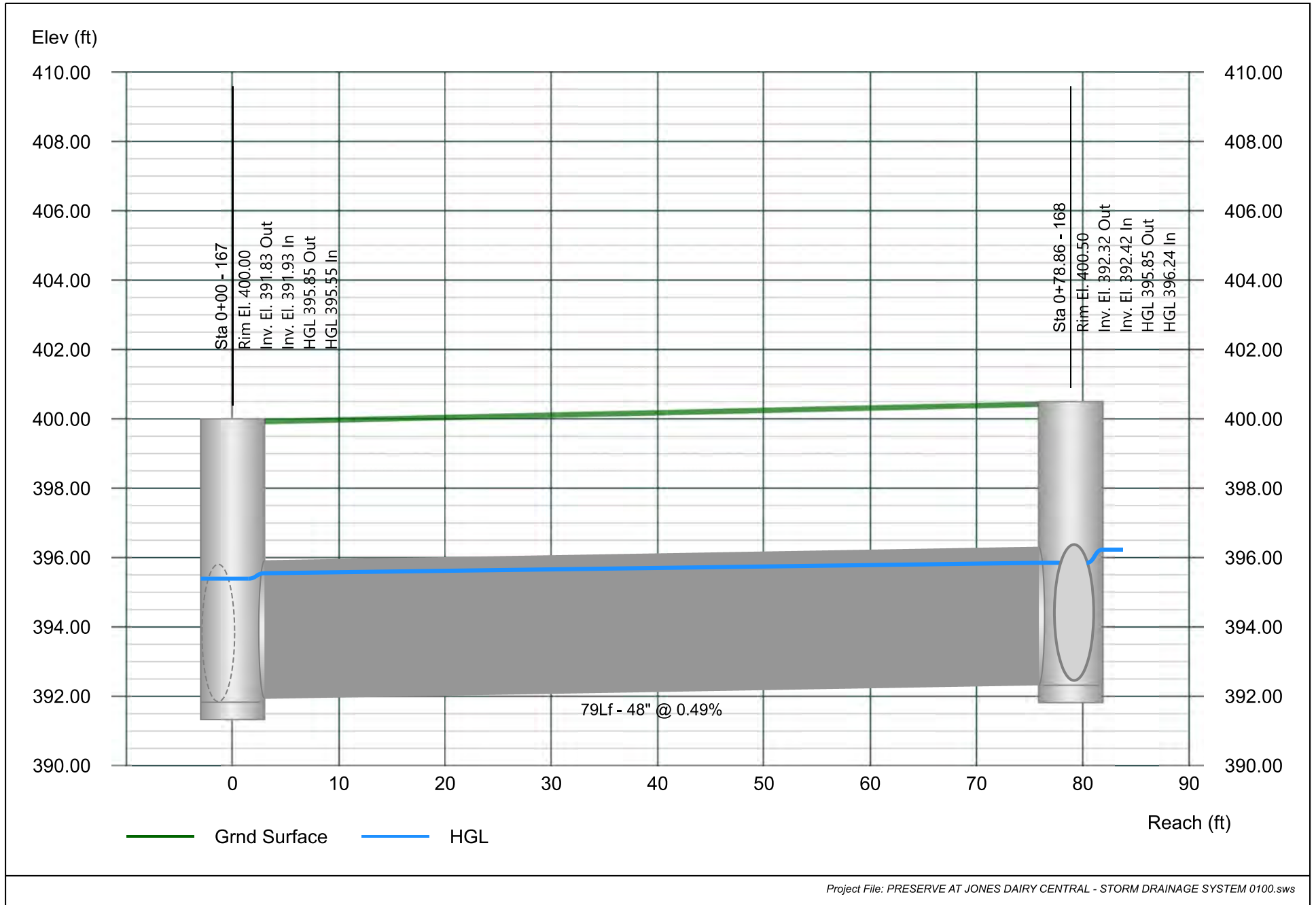
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

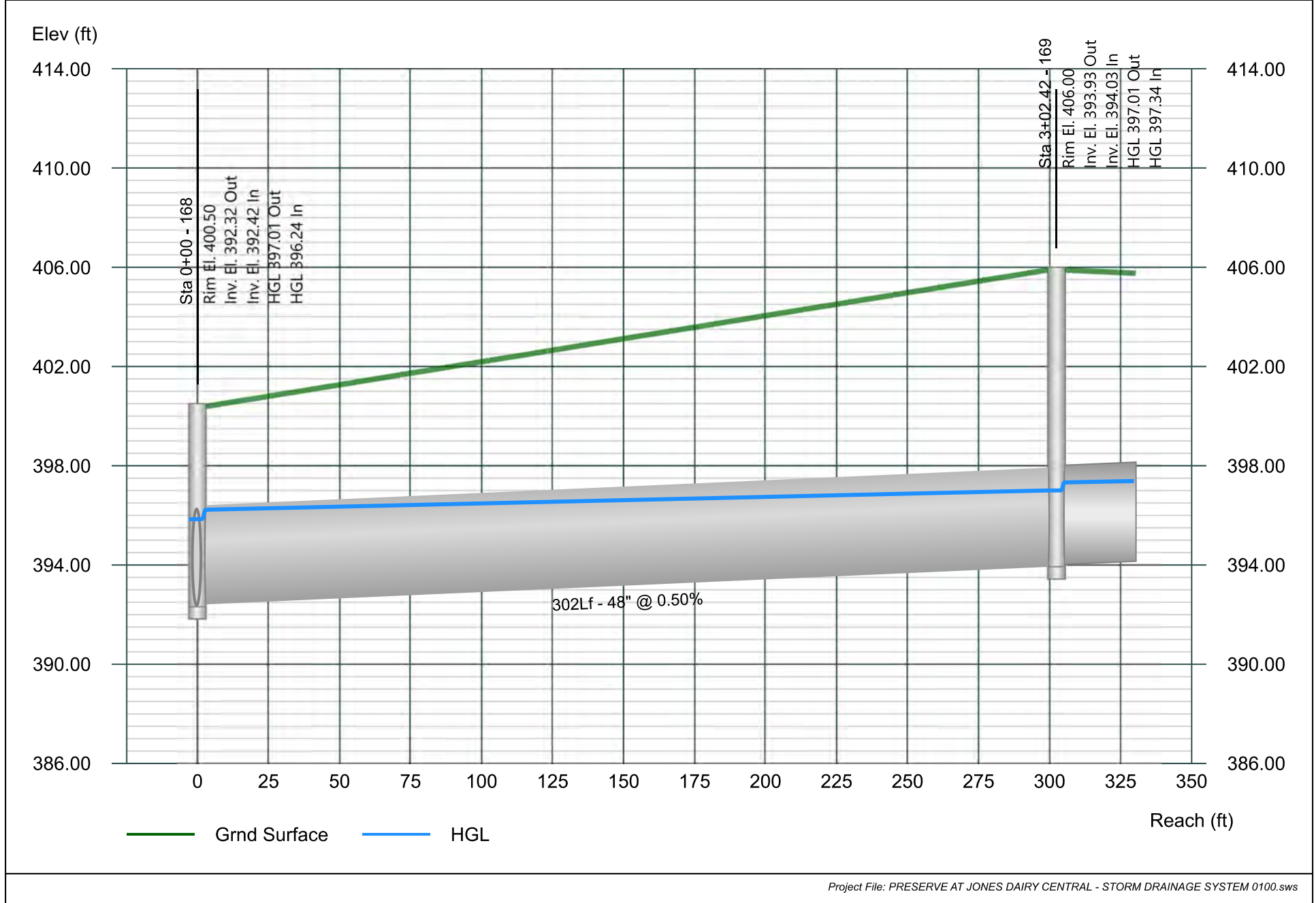
01-19-2024



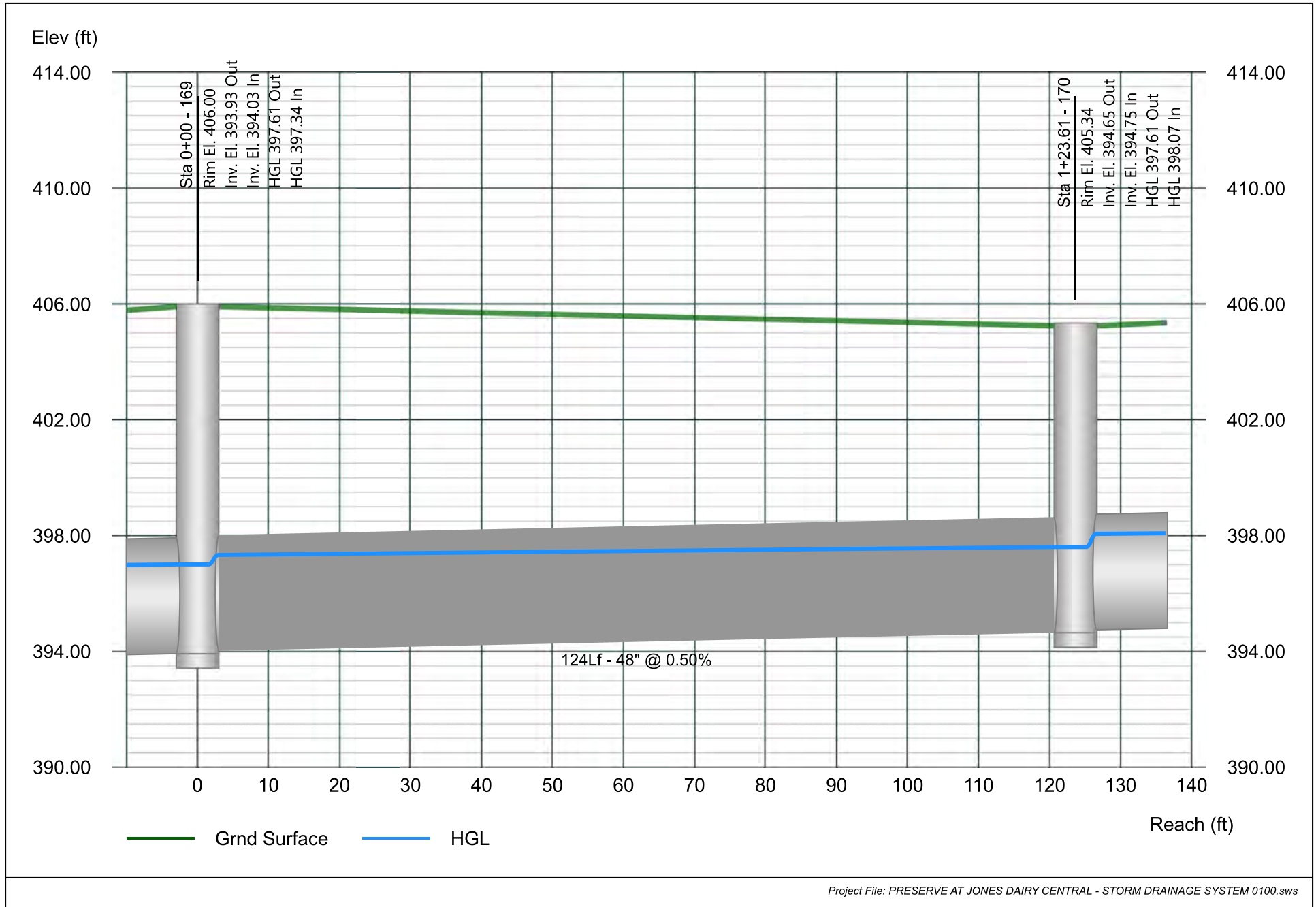
Line 68 - 168 TO 167



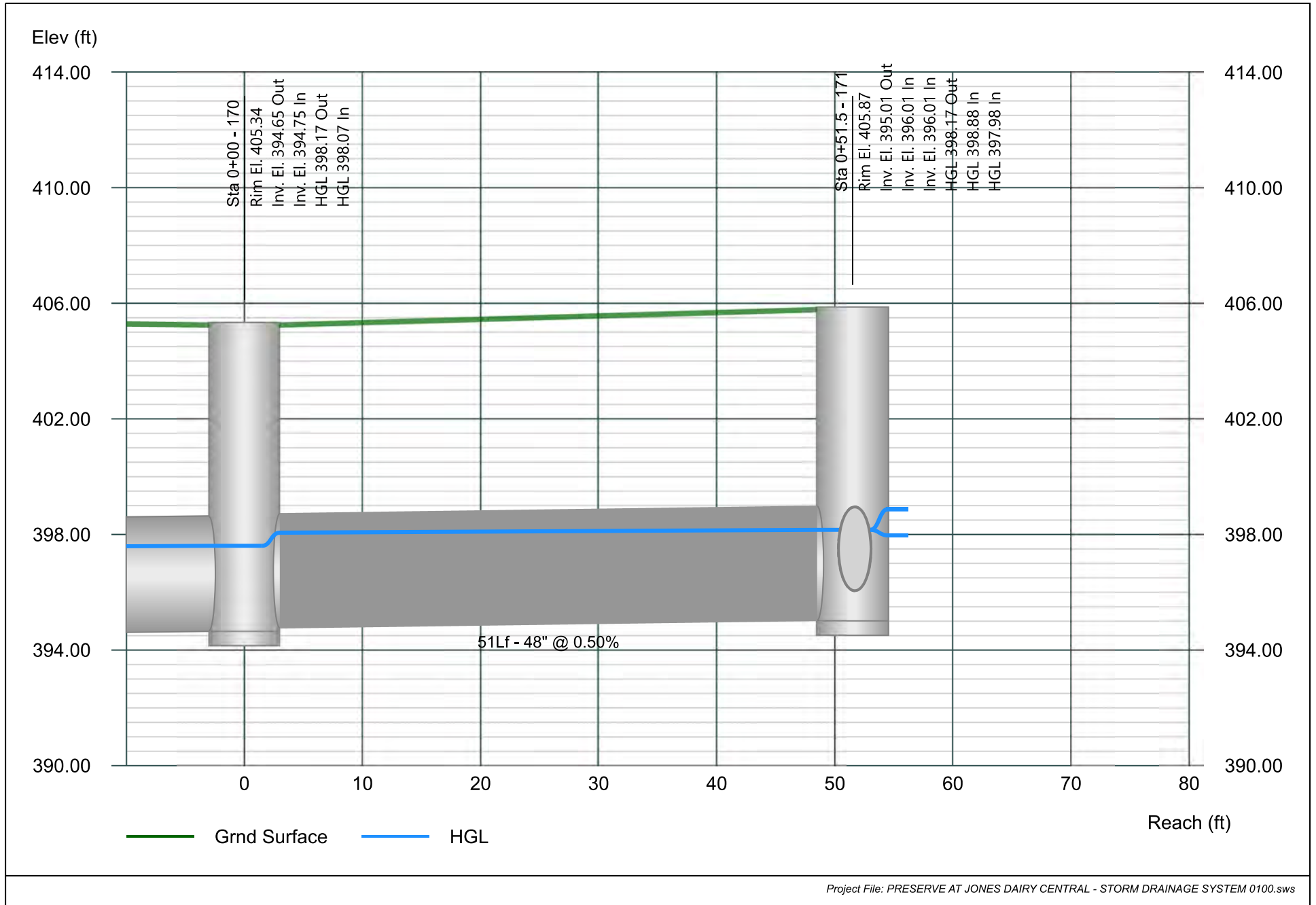
Line 69 - 169 TO 168



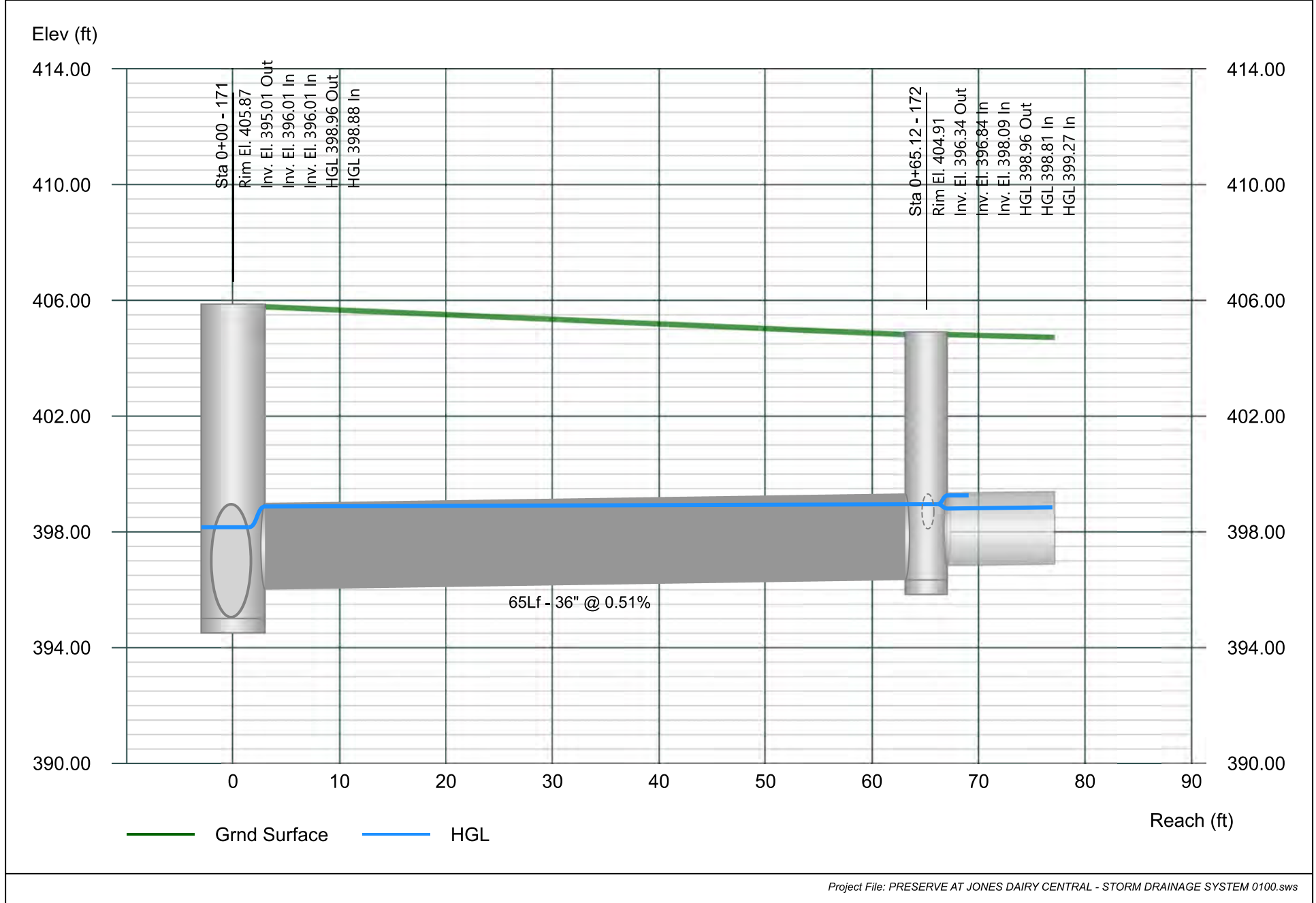
Line 70 - 170 TO 169



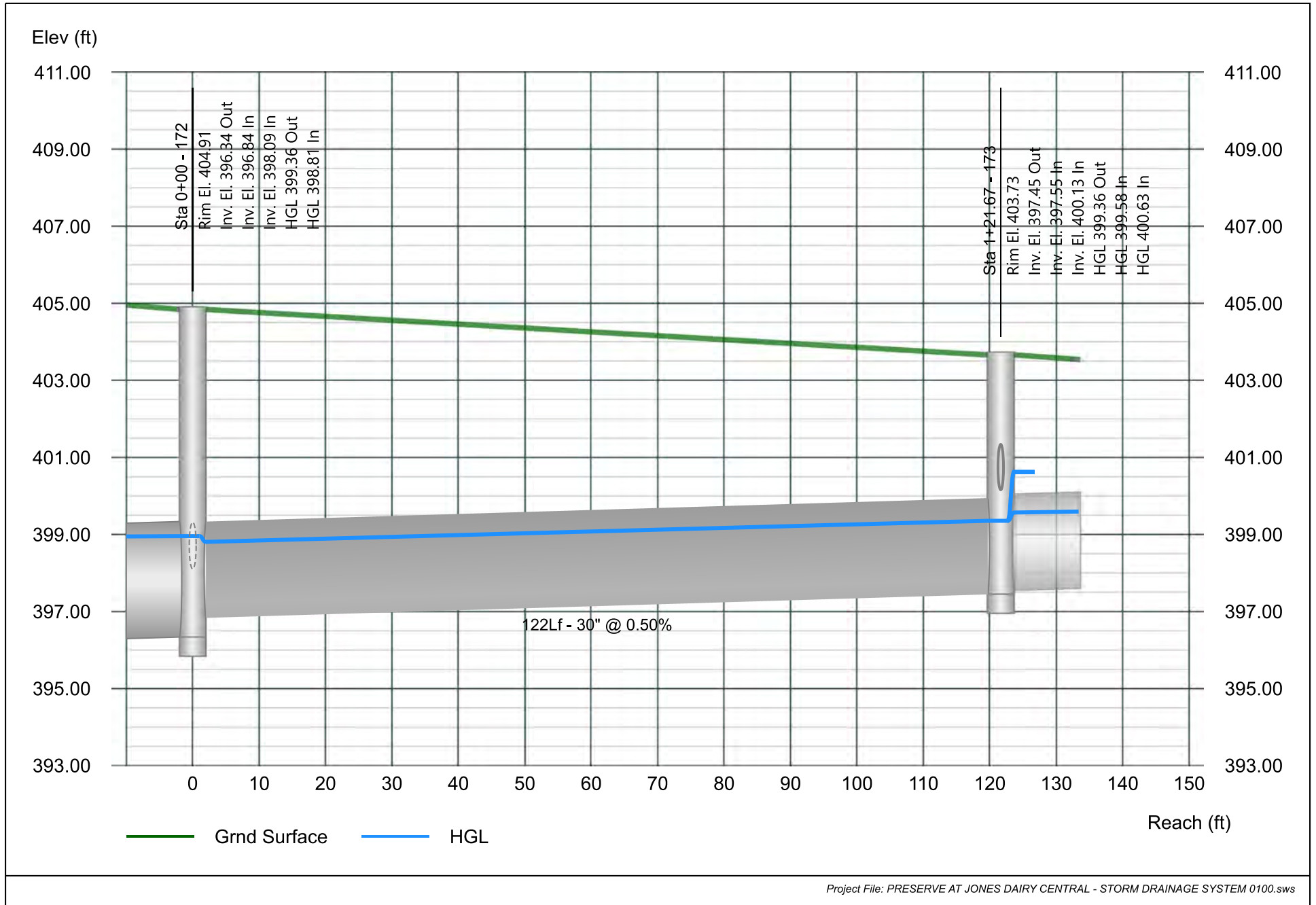
Line 71 - 171 TO 170



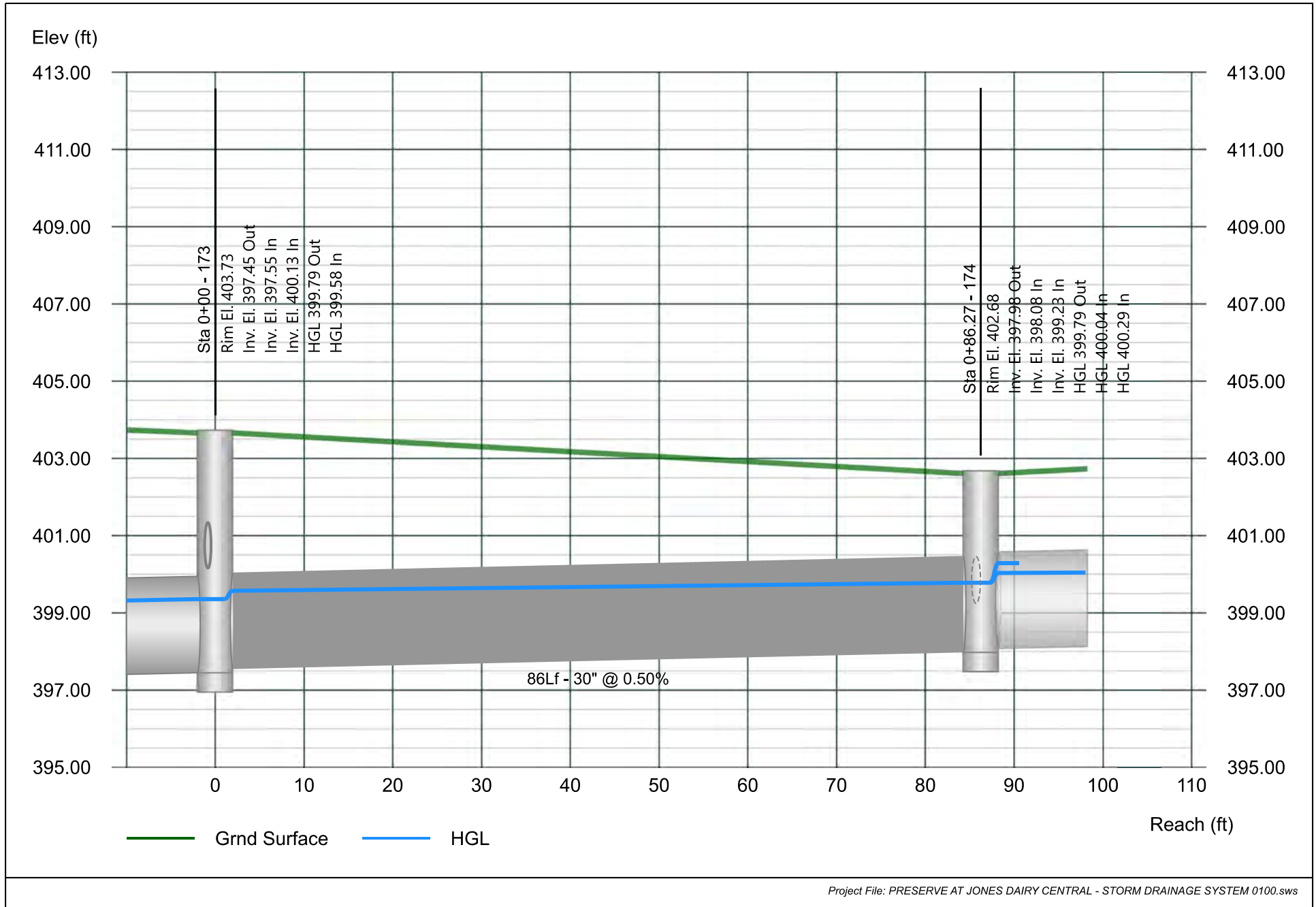
Line 72 - 172 TO 171



Line 73 - 173 TO 172



Line 74 - 174 TO 173

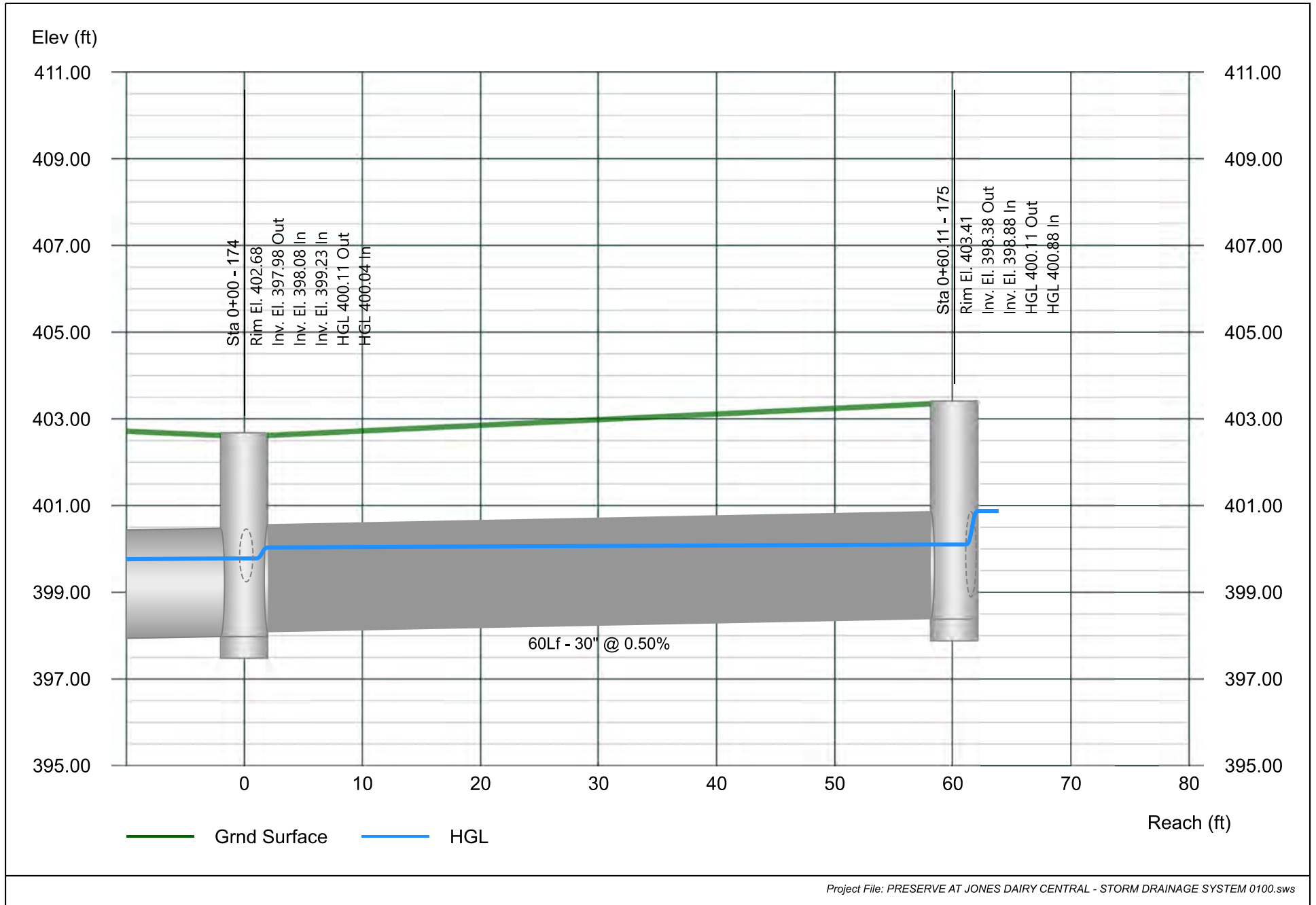


Line 75 - 175 TO 174

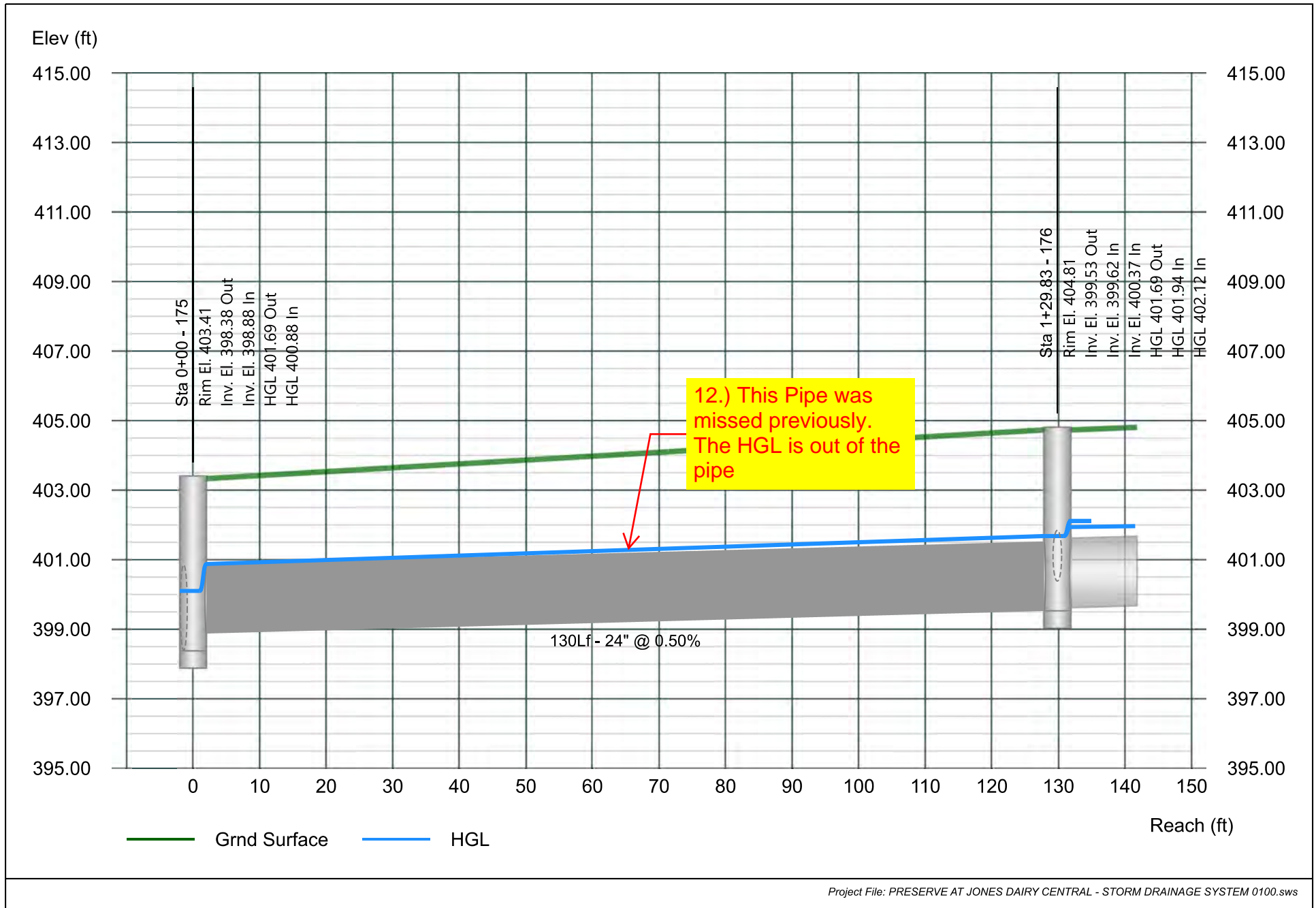
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 76 - 176 TO 175

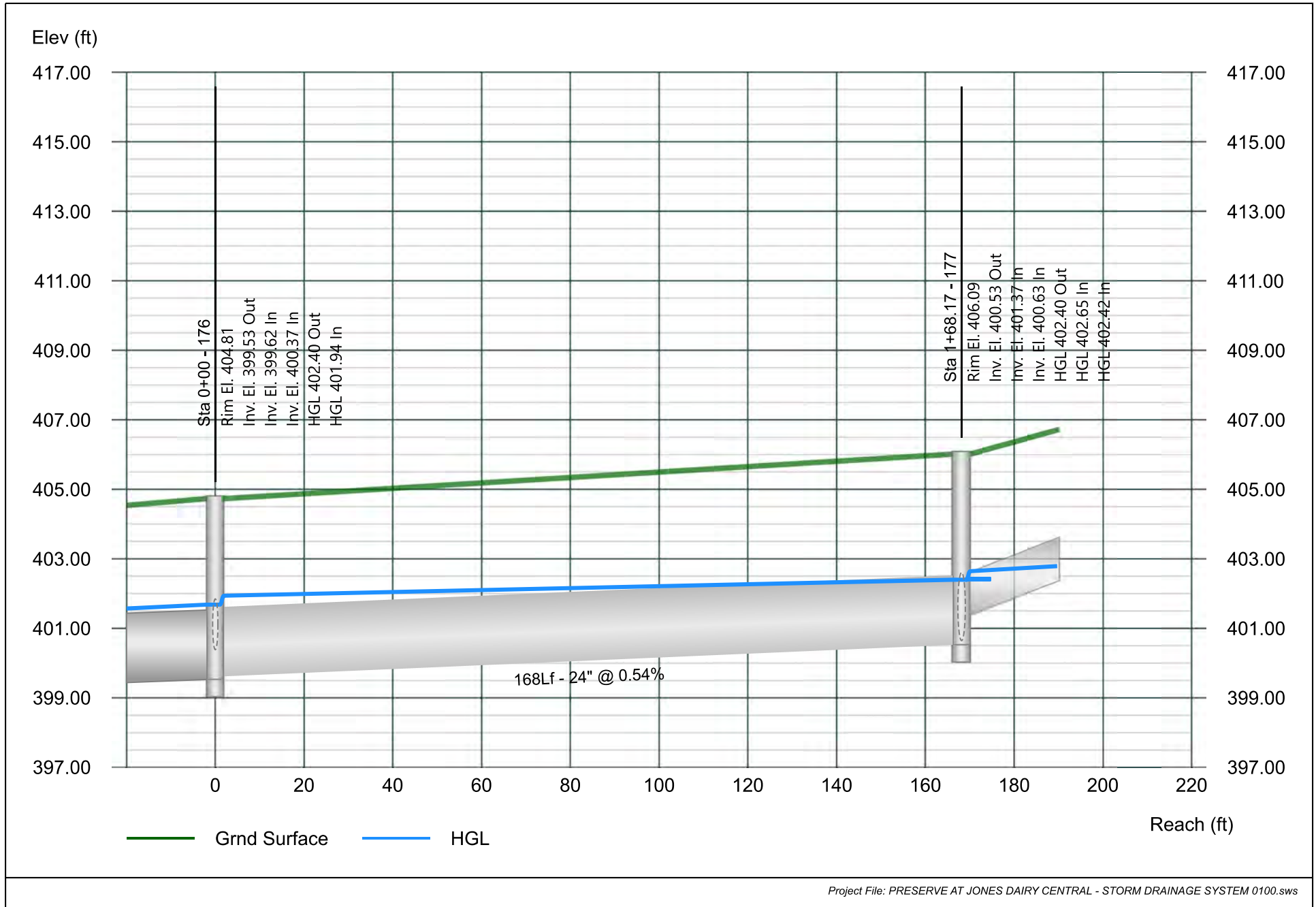


Line 77 - 177 TO 176

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

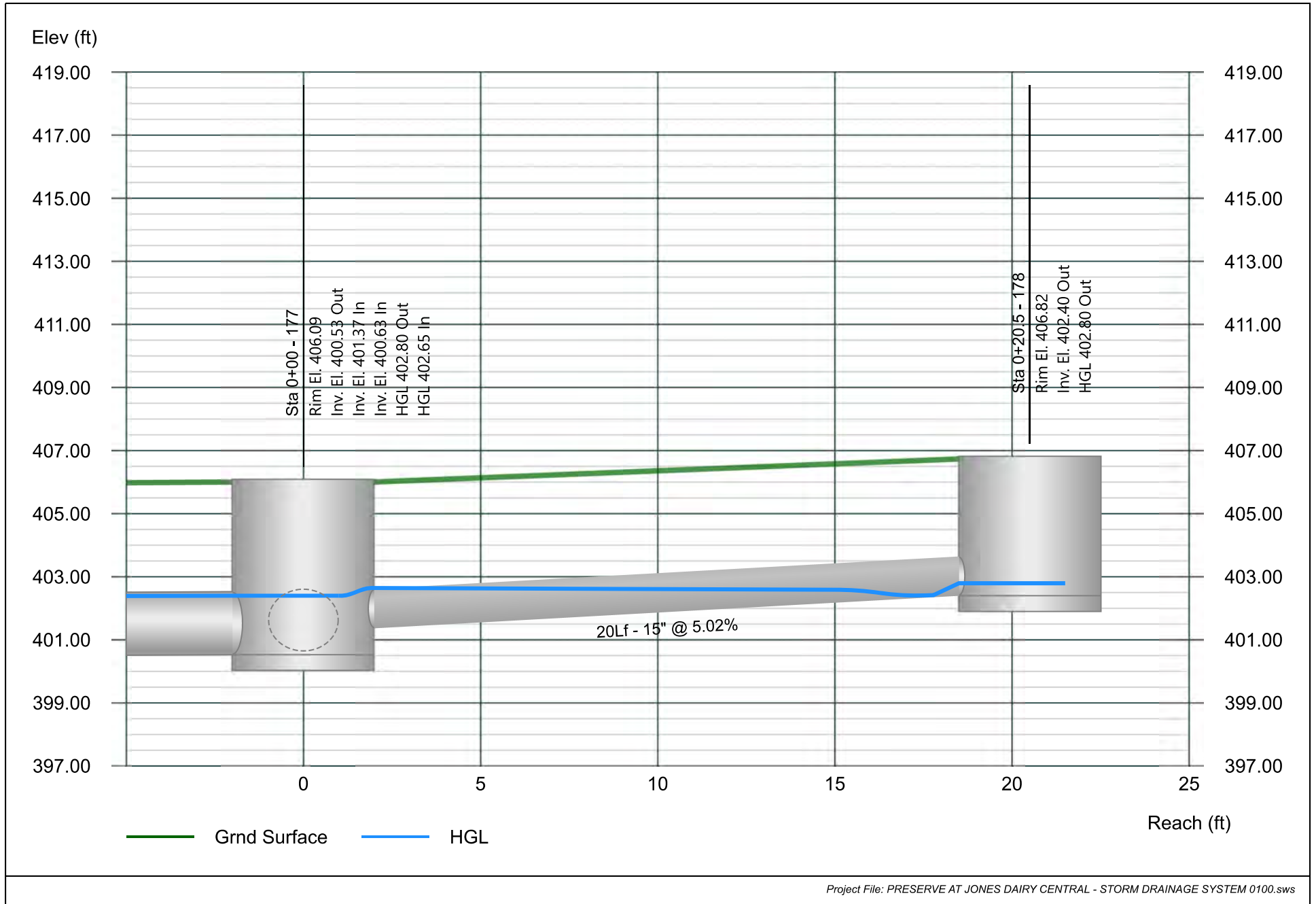


Line 78 - 178 TO 177

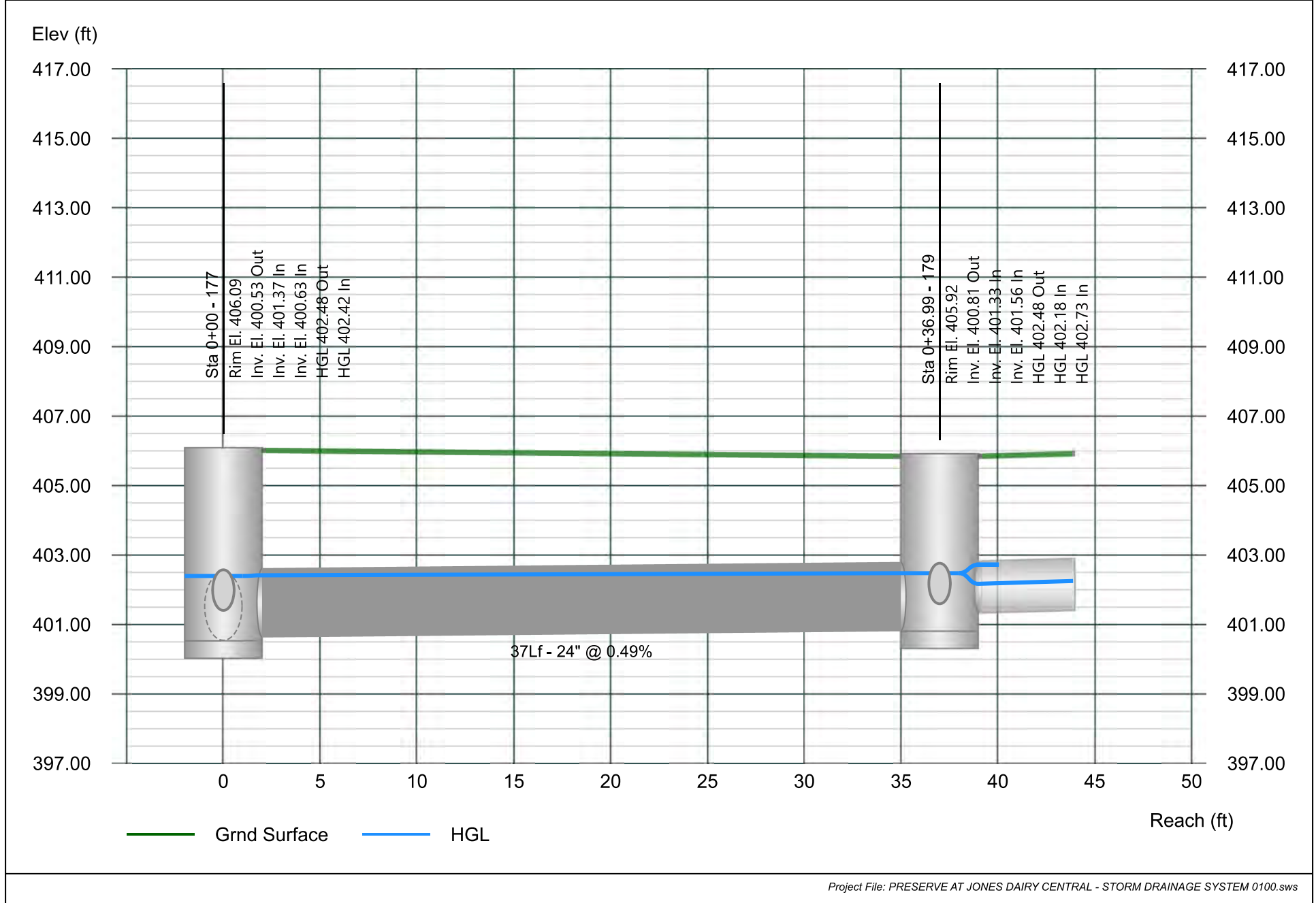
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

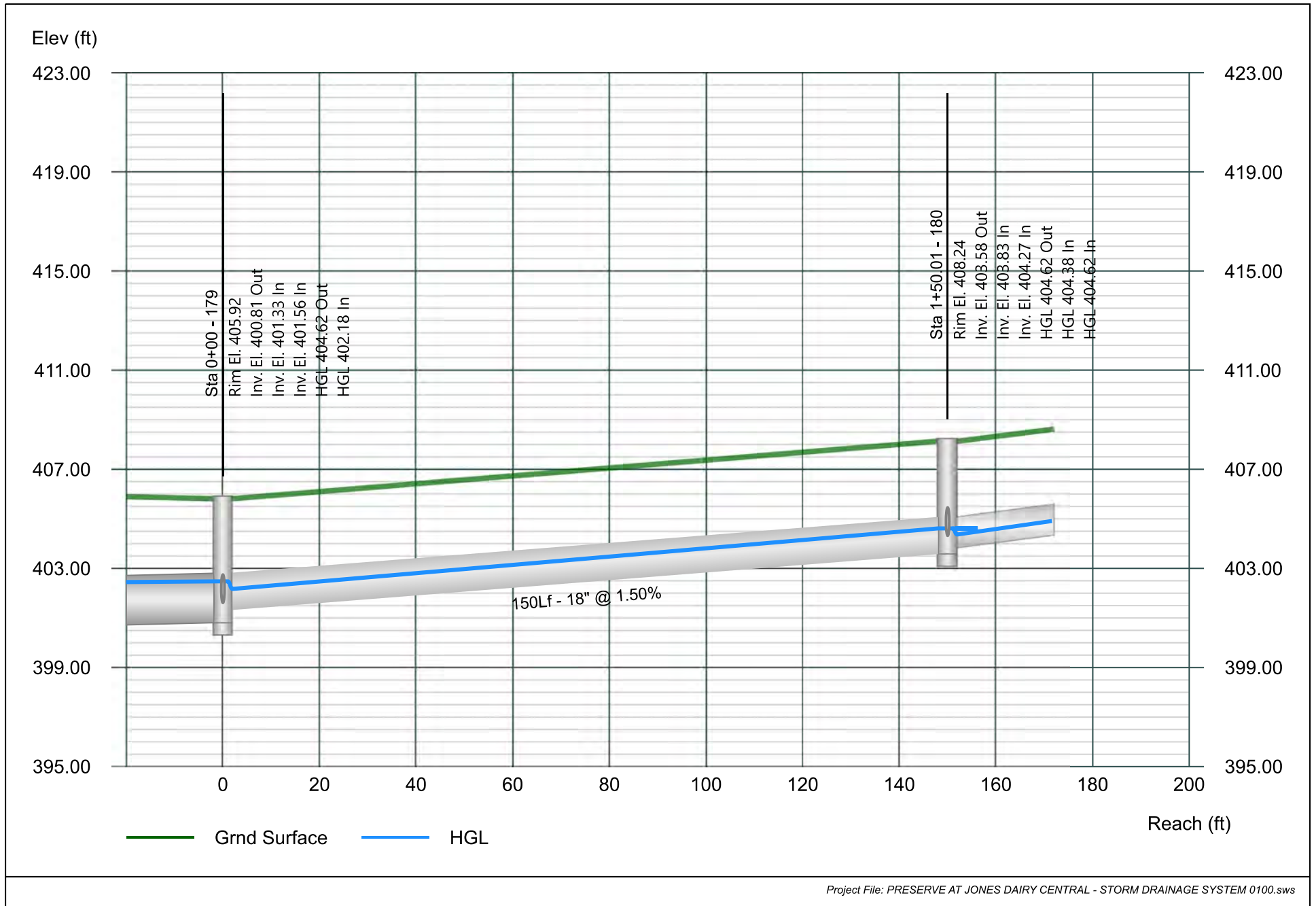
01-19-2024



Line 79 - 179 TO 177



Line 80 - 180 TO 179

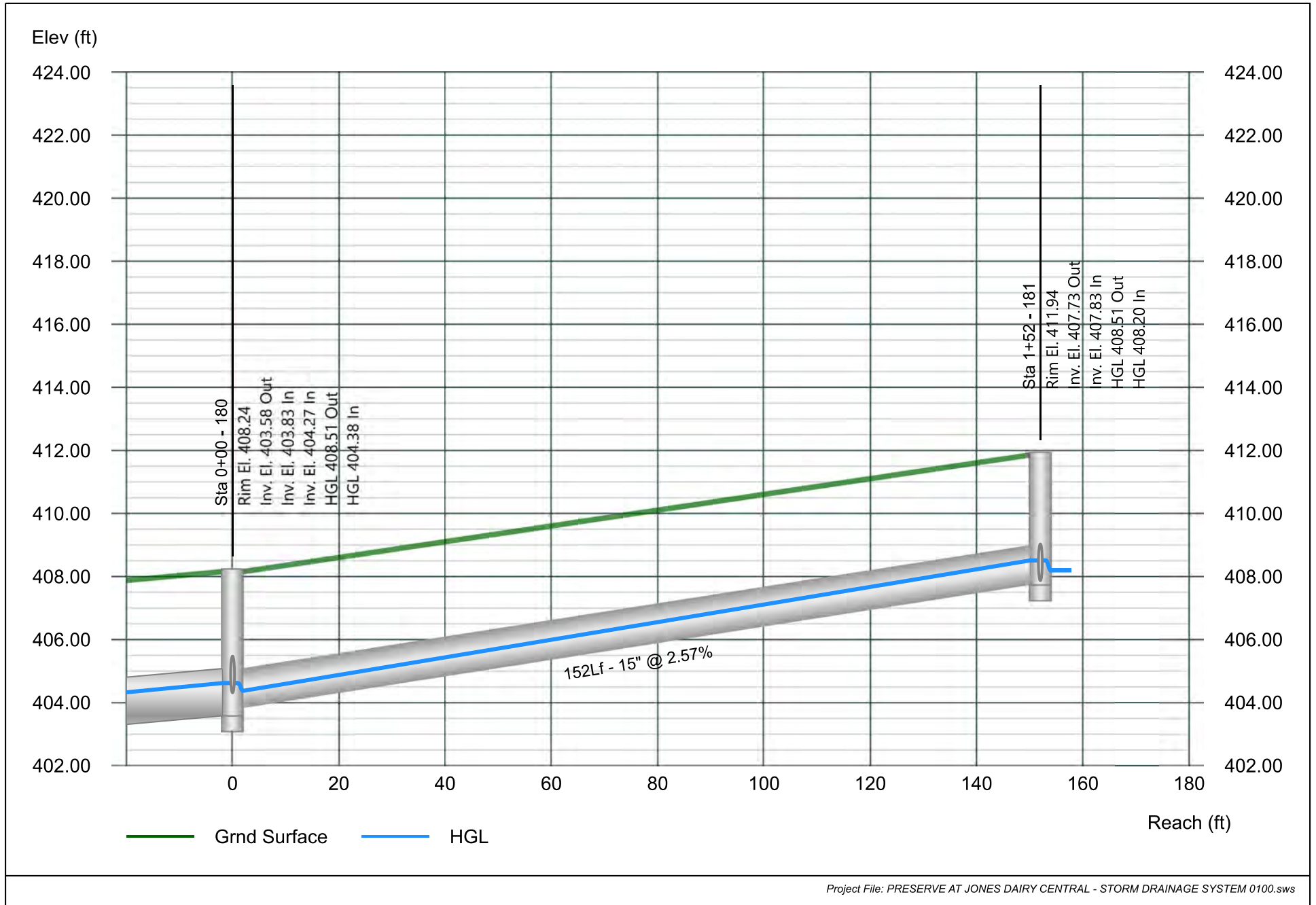


Line 81 - 181 TO 180

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

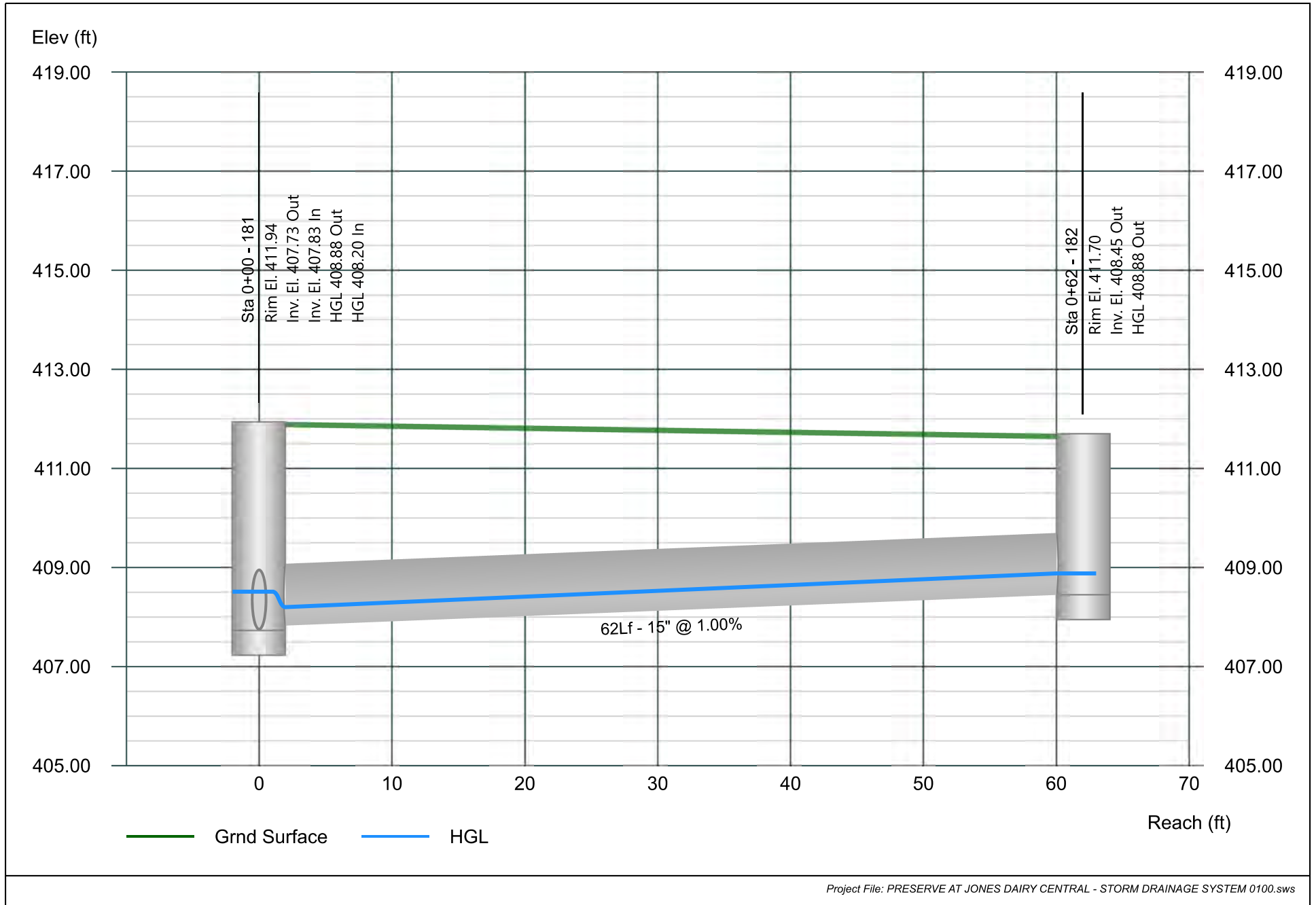


Line 82 - 182 TO 181

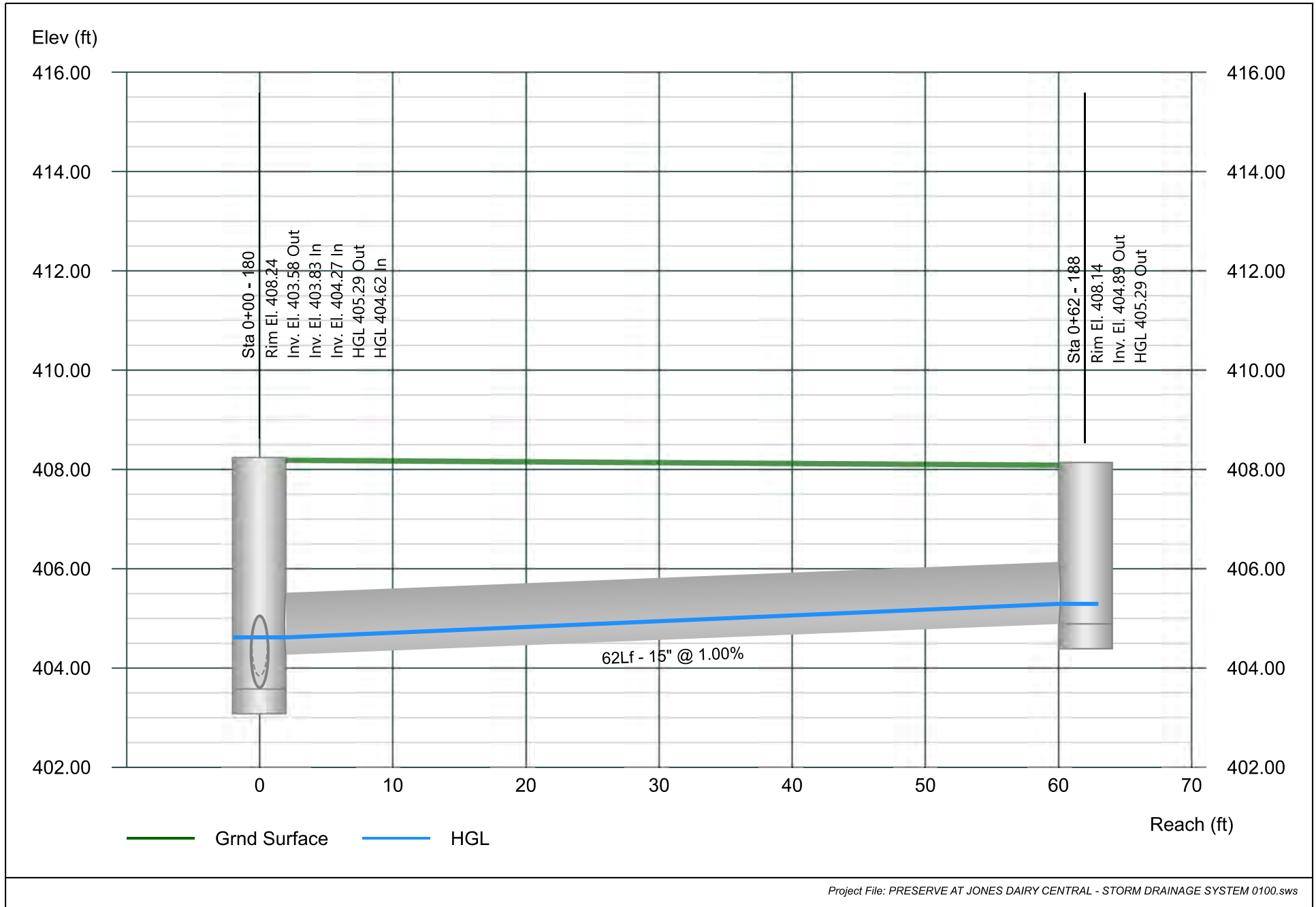
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 83 - 188 TO 180

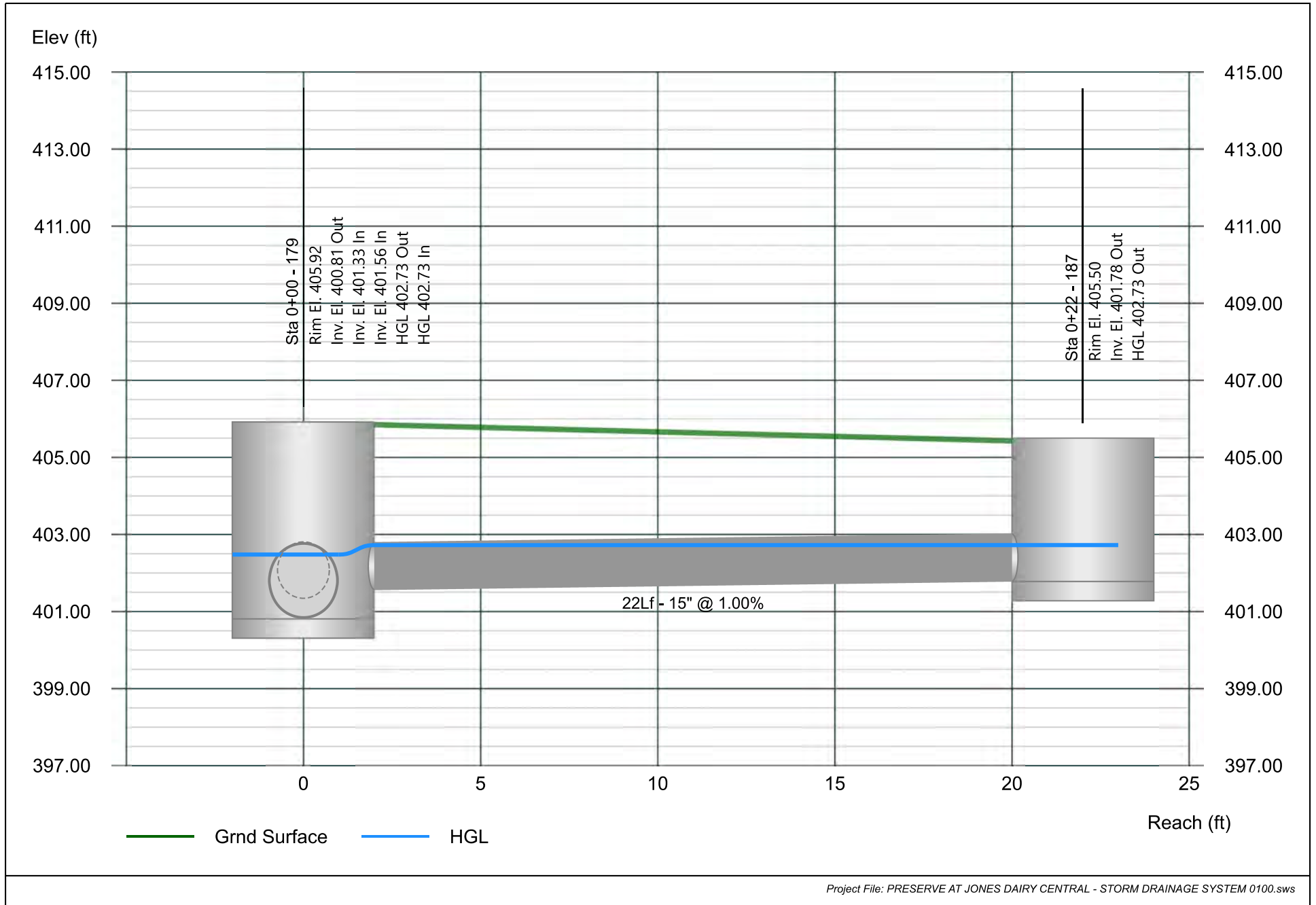


Line 84 - 187 TO 179

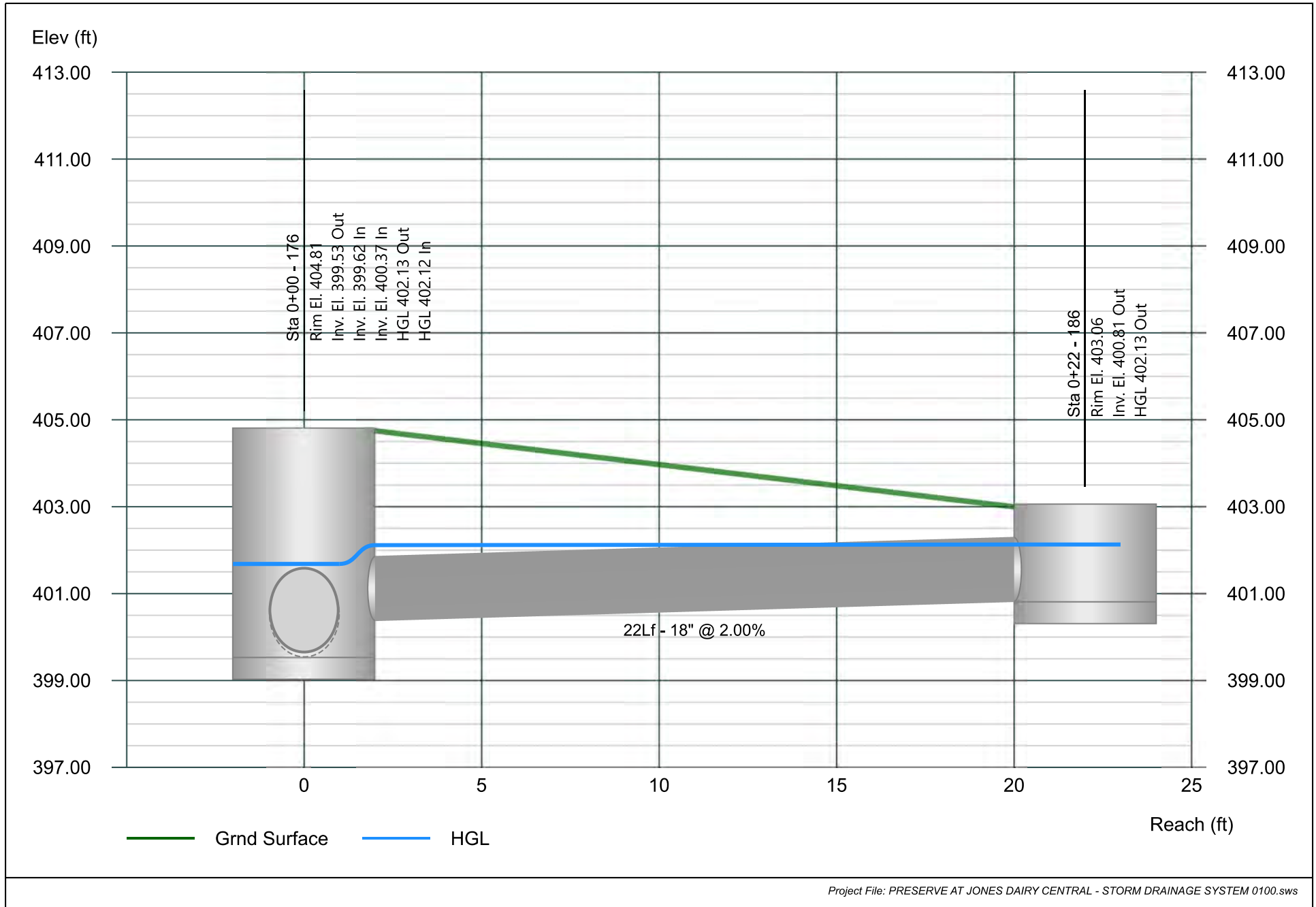
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

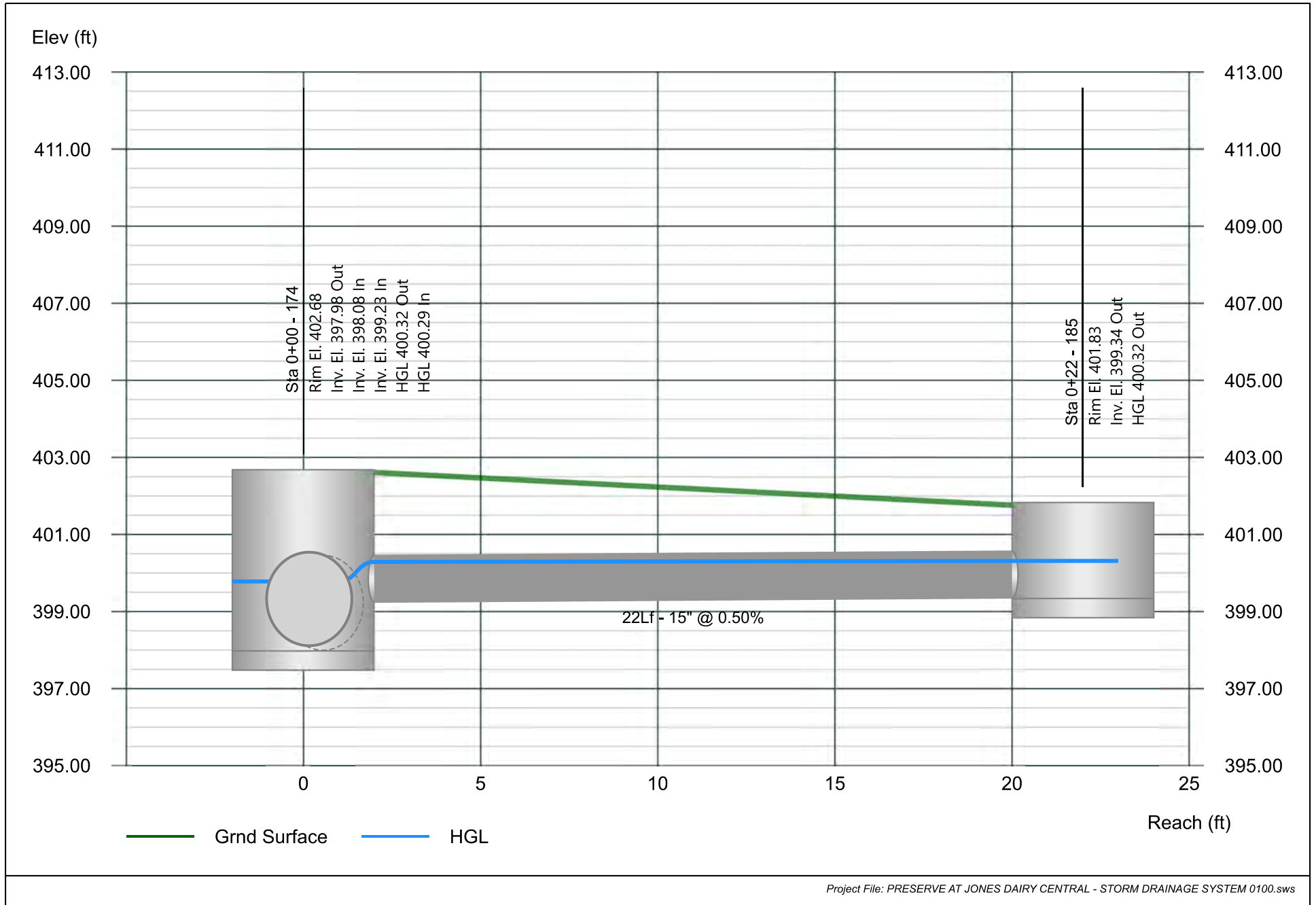
01-19-2024



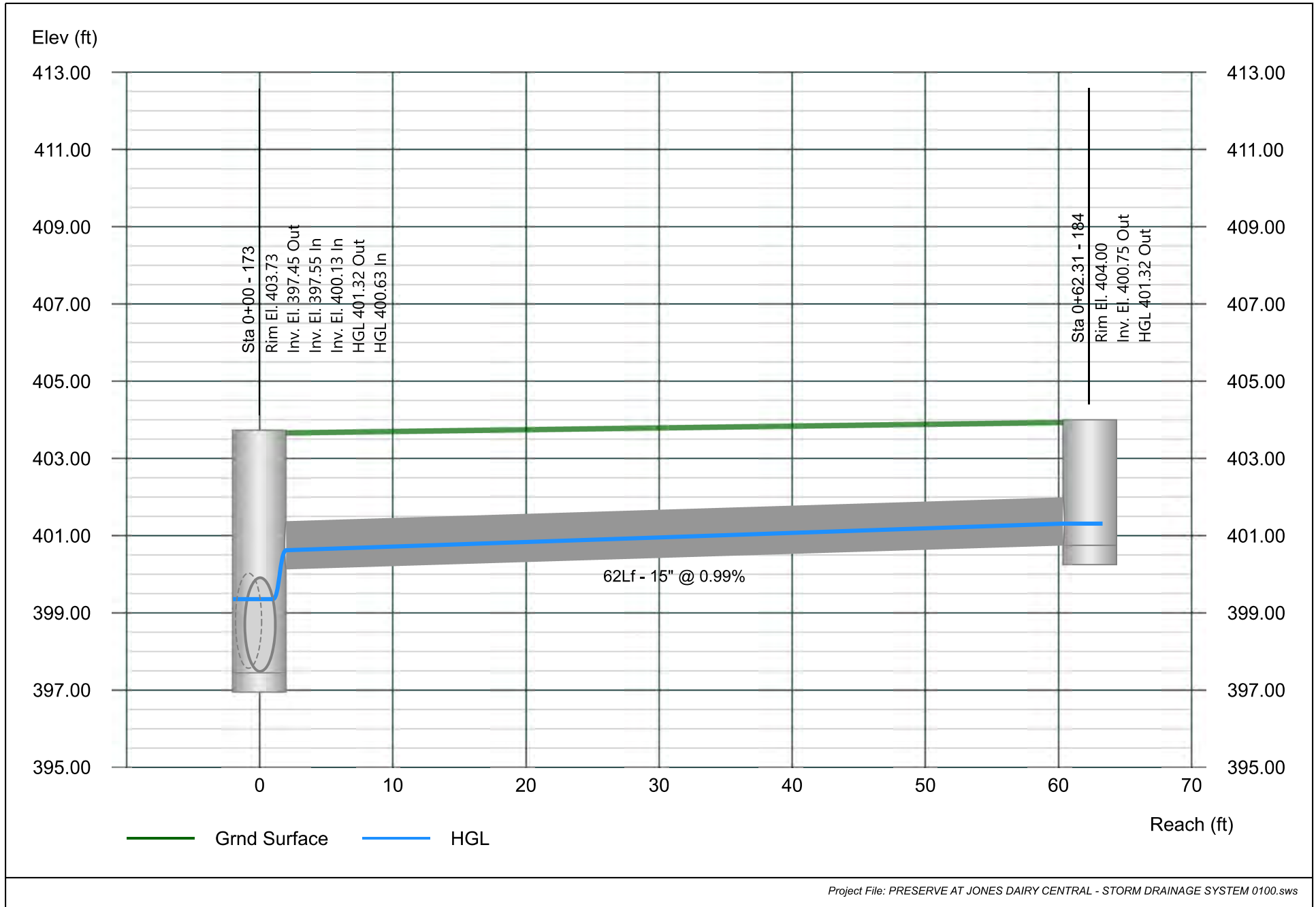
Line 85 - 186 TO 176



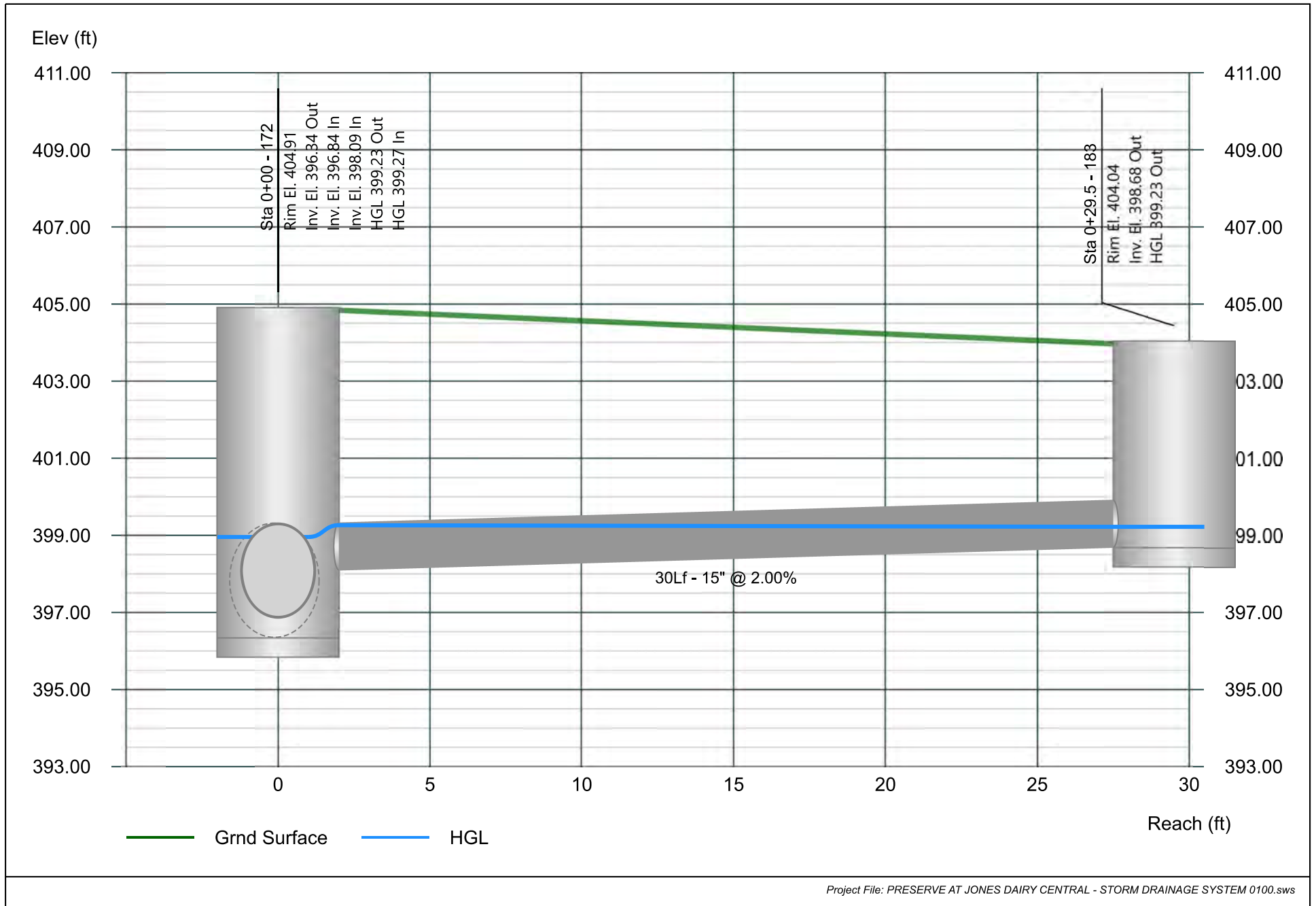
Line 86 - 185 TO 174



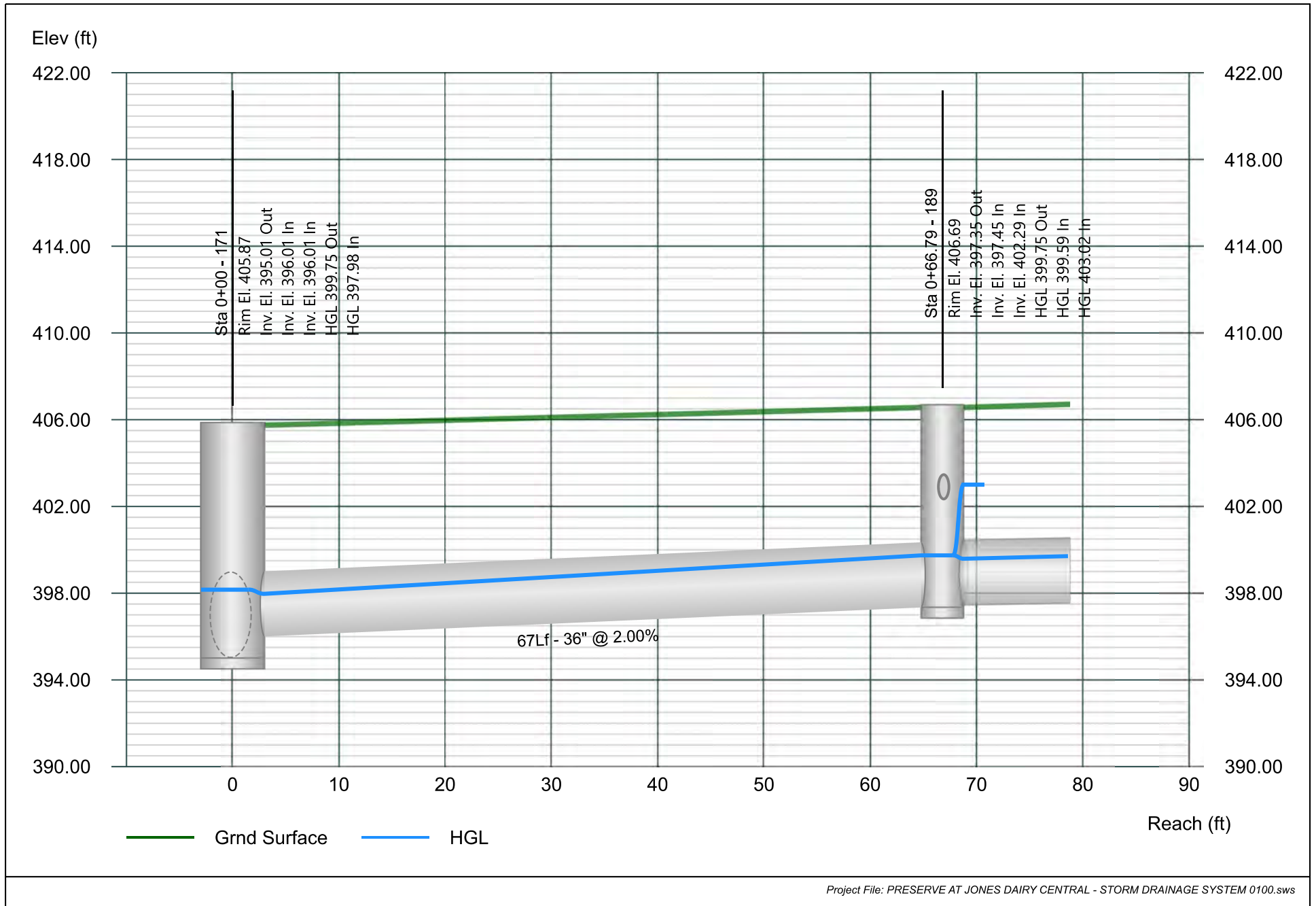
Line 87 - 184 TO 173



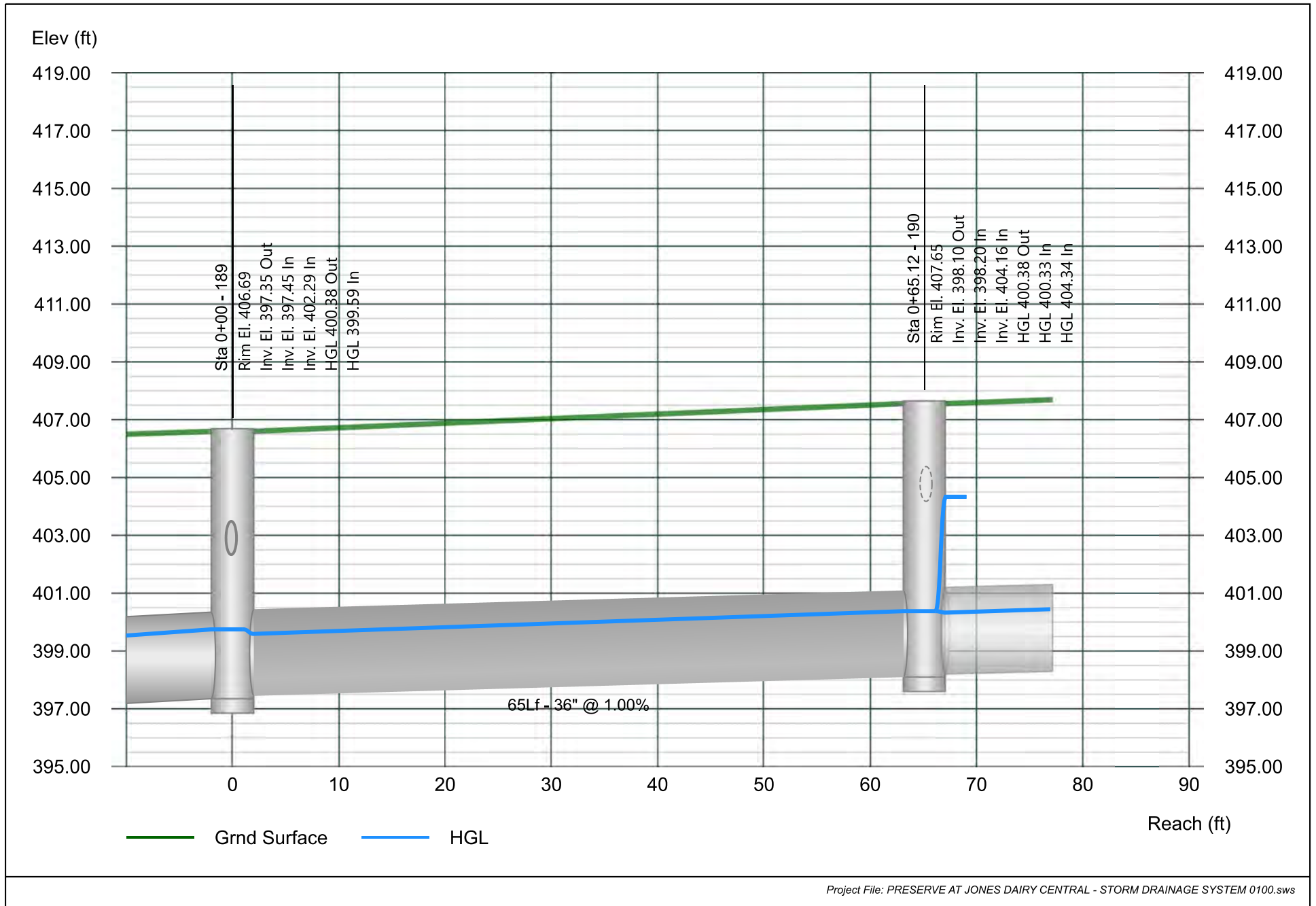
Line 88 - 183 TO 172



Line 89 - 189 TO 171



Line 90 - 190 TO 189

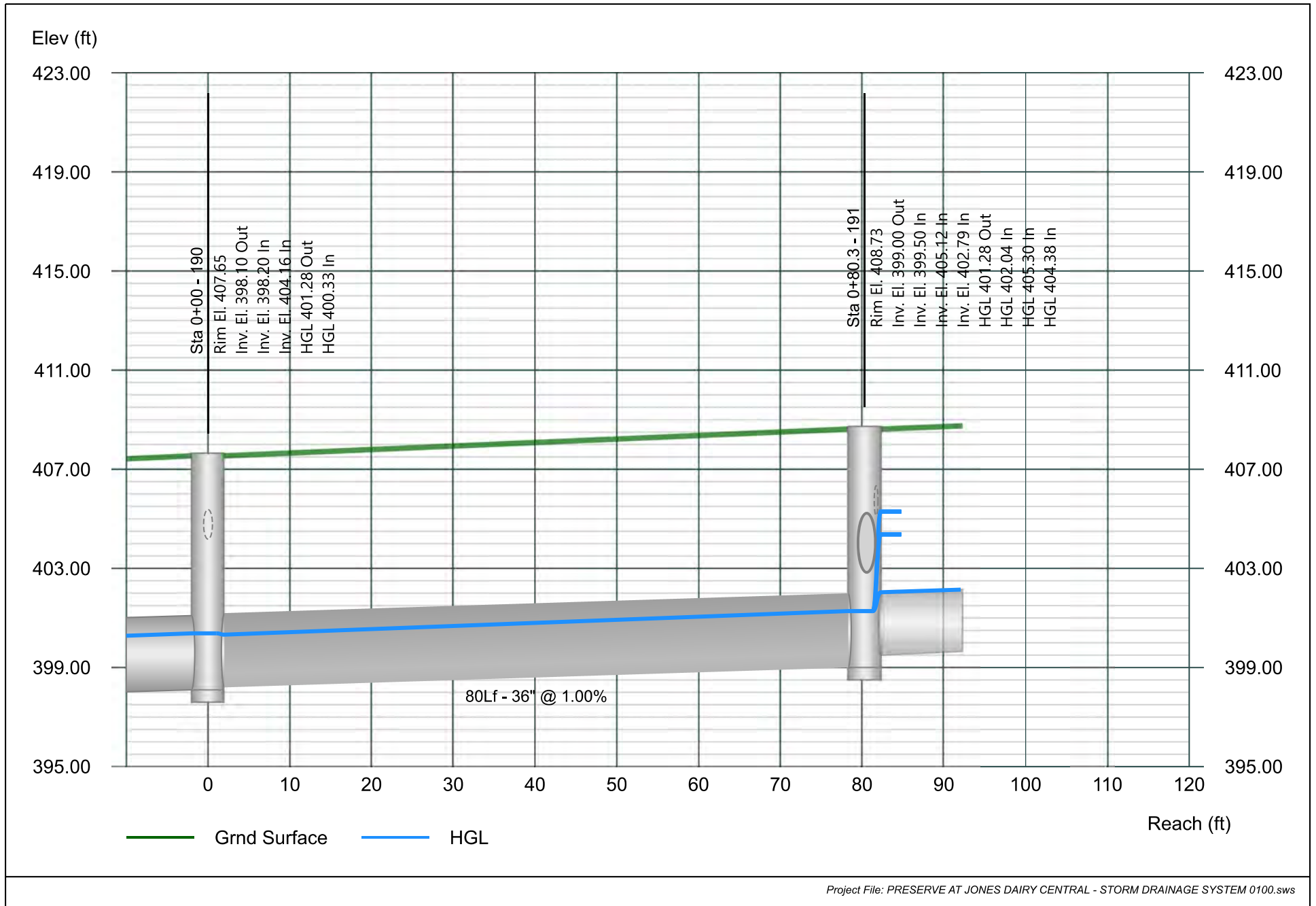


Line 91 - 191 TO 190

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

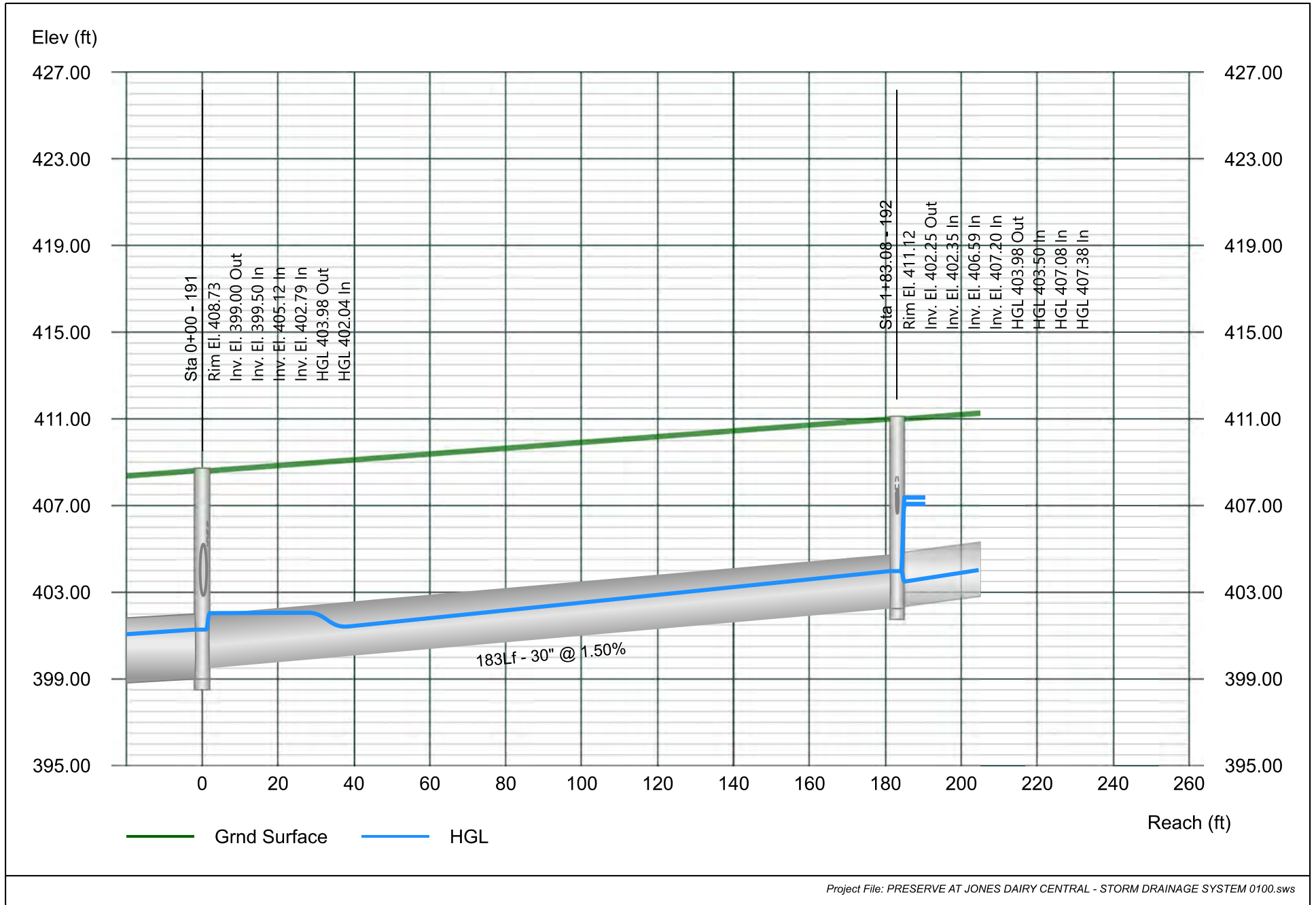


Line 92 - 192 TO 191

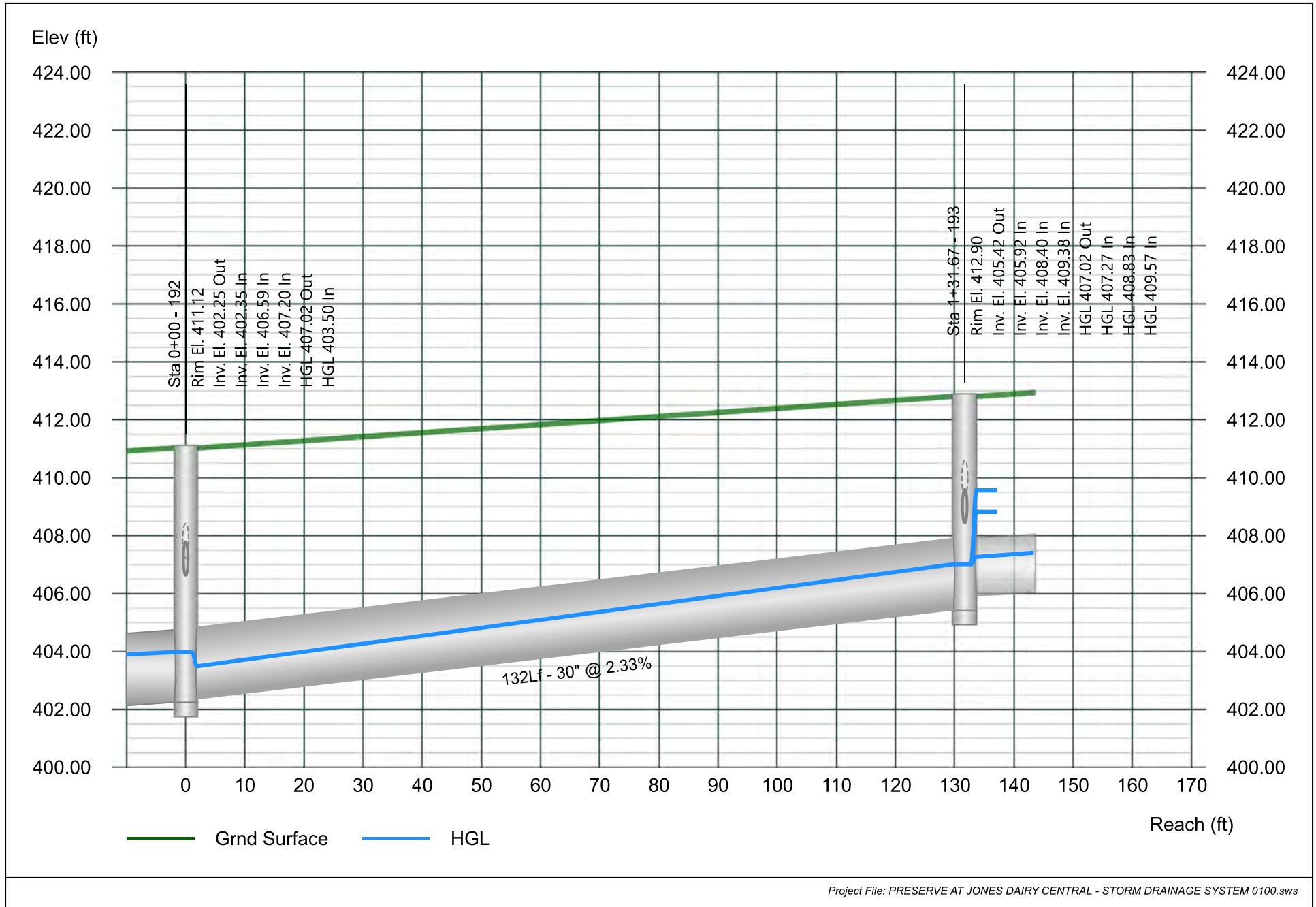
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

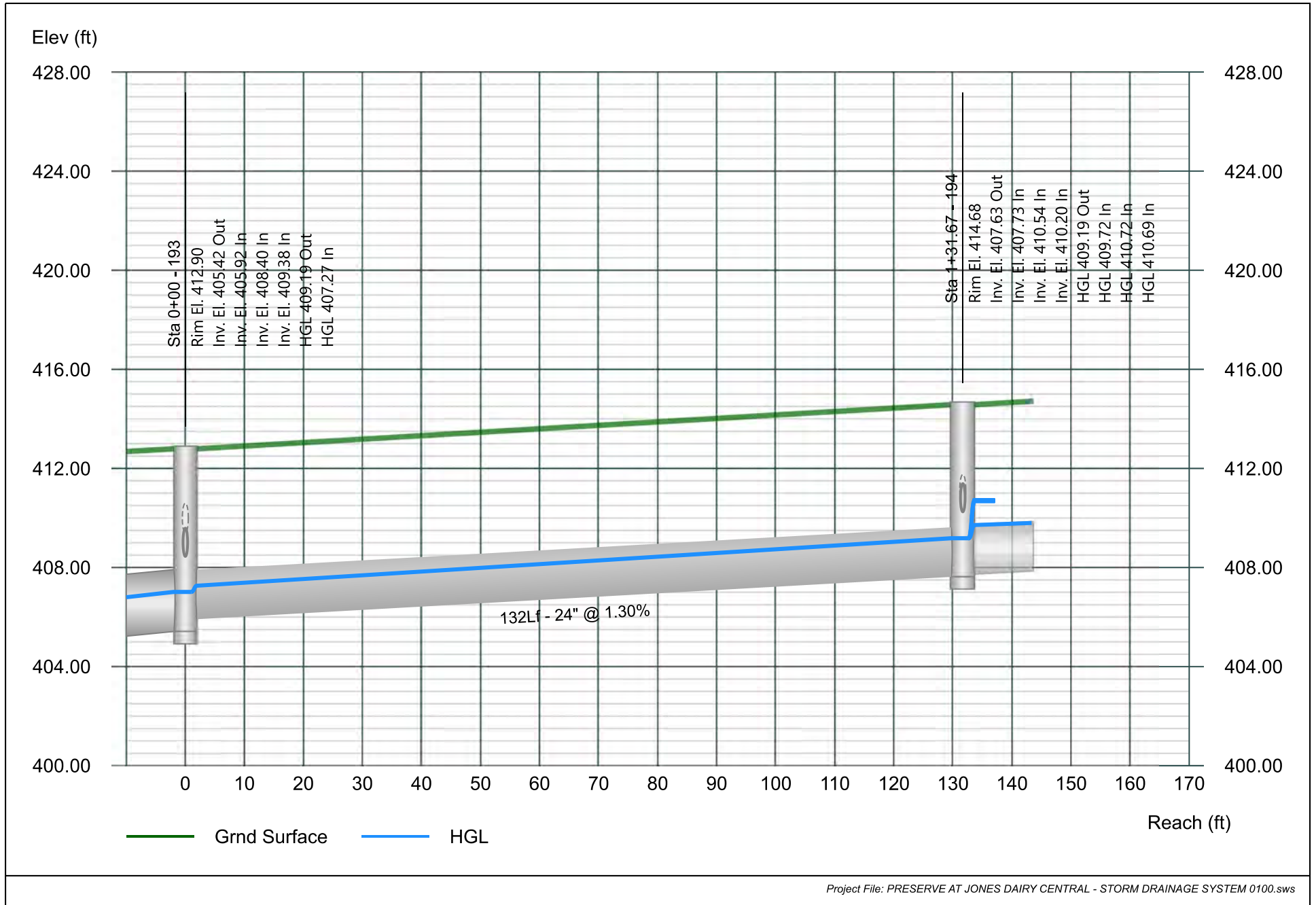
01-19-2024



Line 93 - 193 TO 192



Line 94 - 194 TO 193

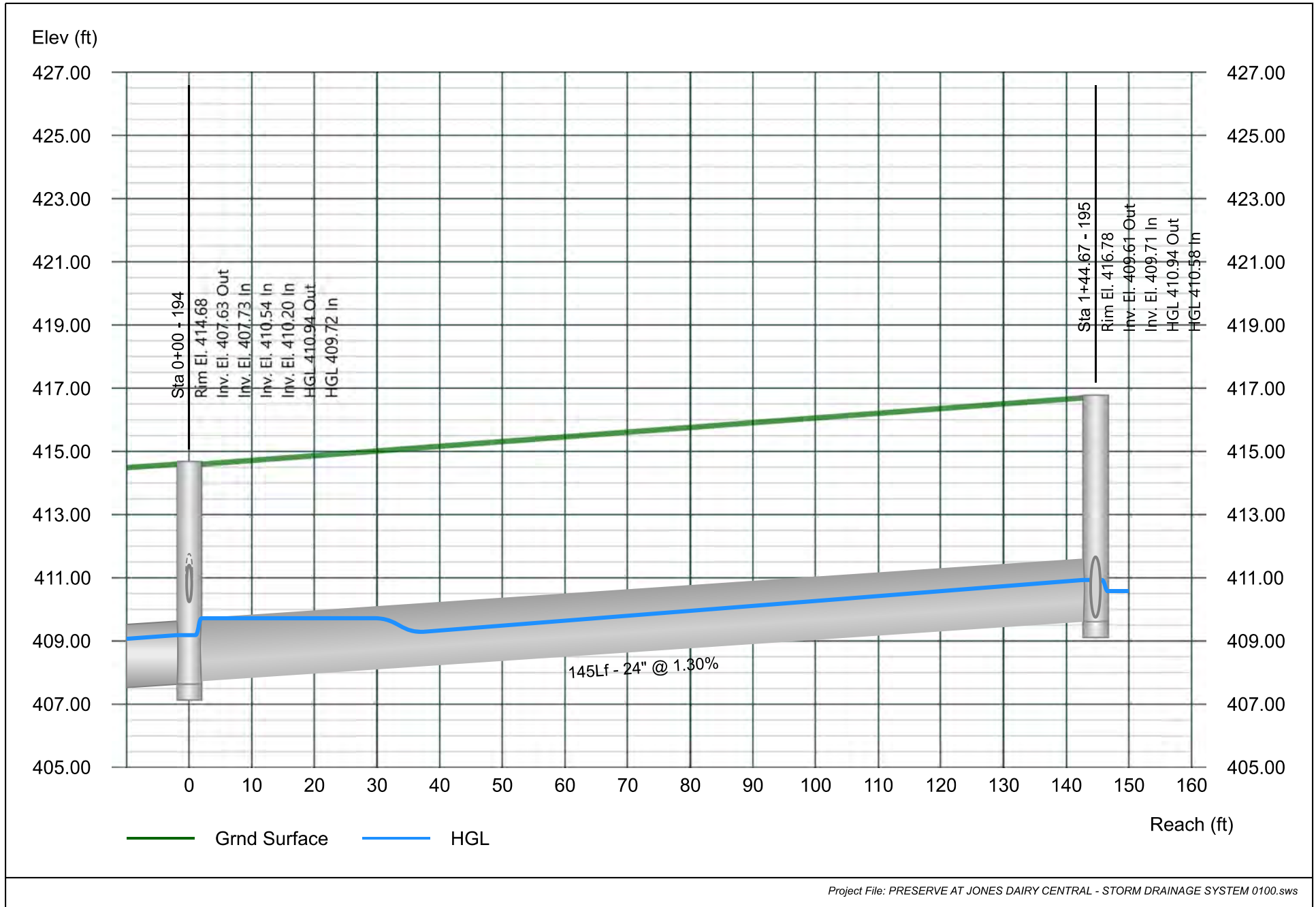


Line 95 - 195 TO 194

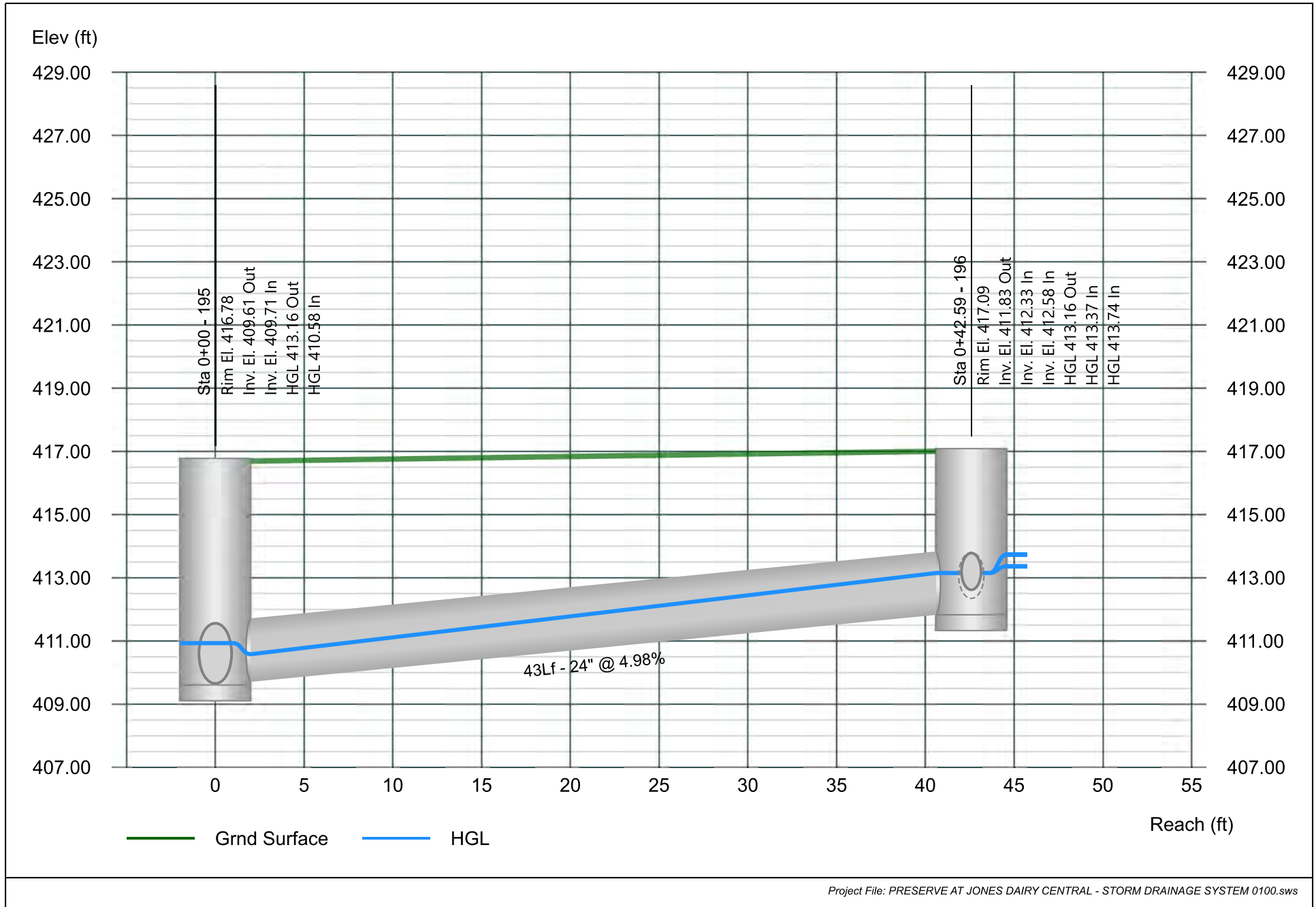
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 96 - 196 TO 195

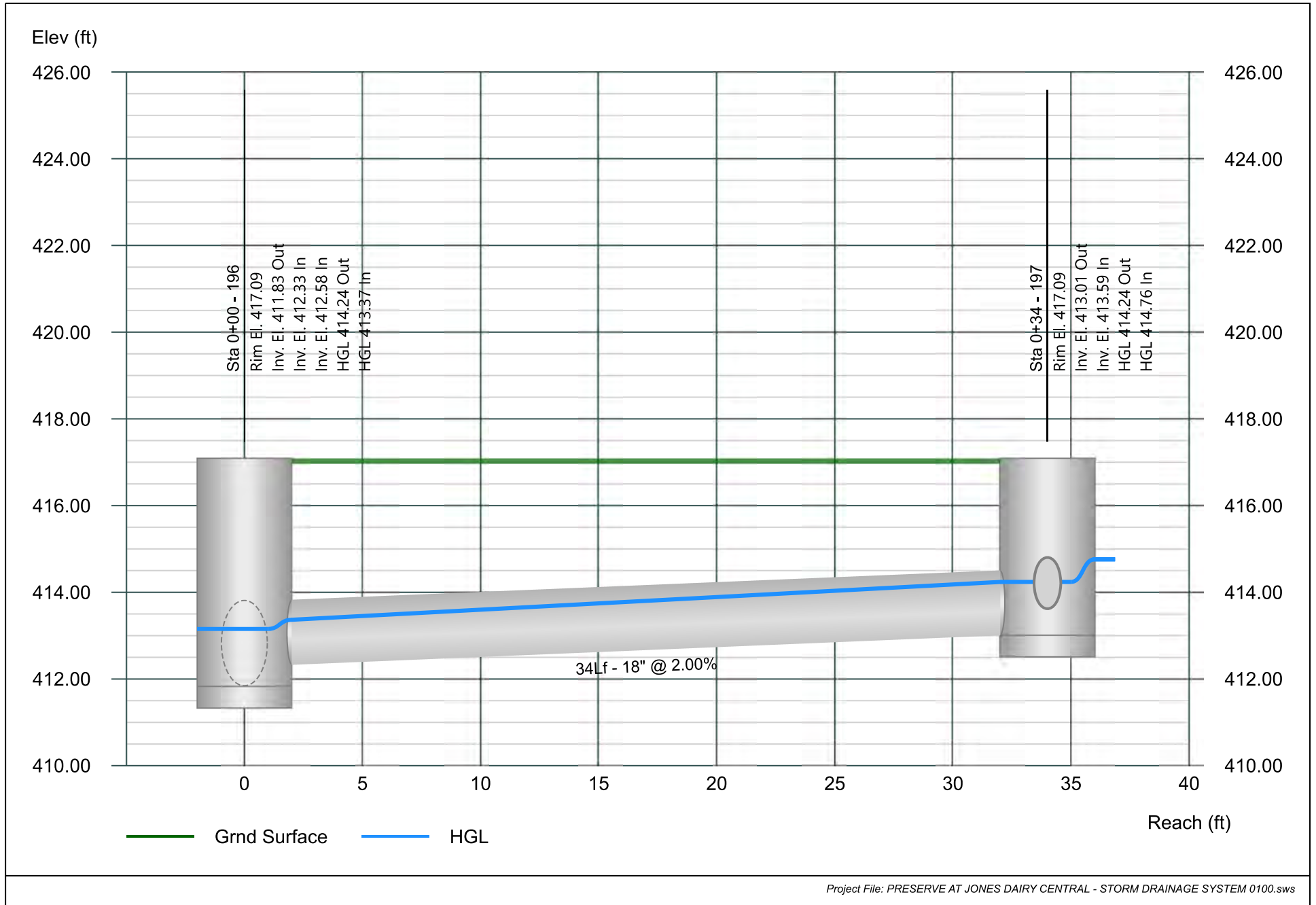


Line 97 - 197 TO 196

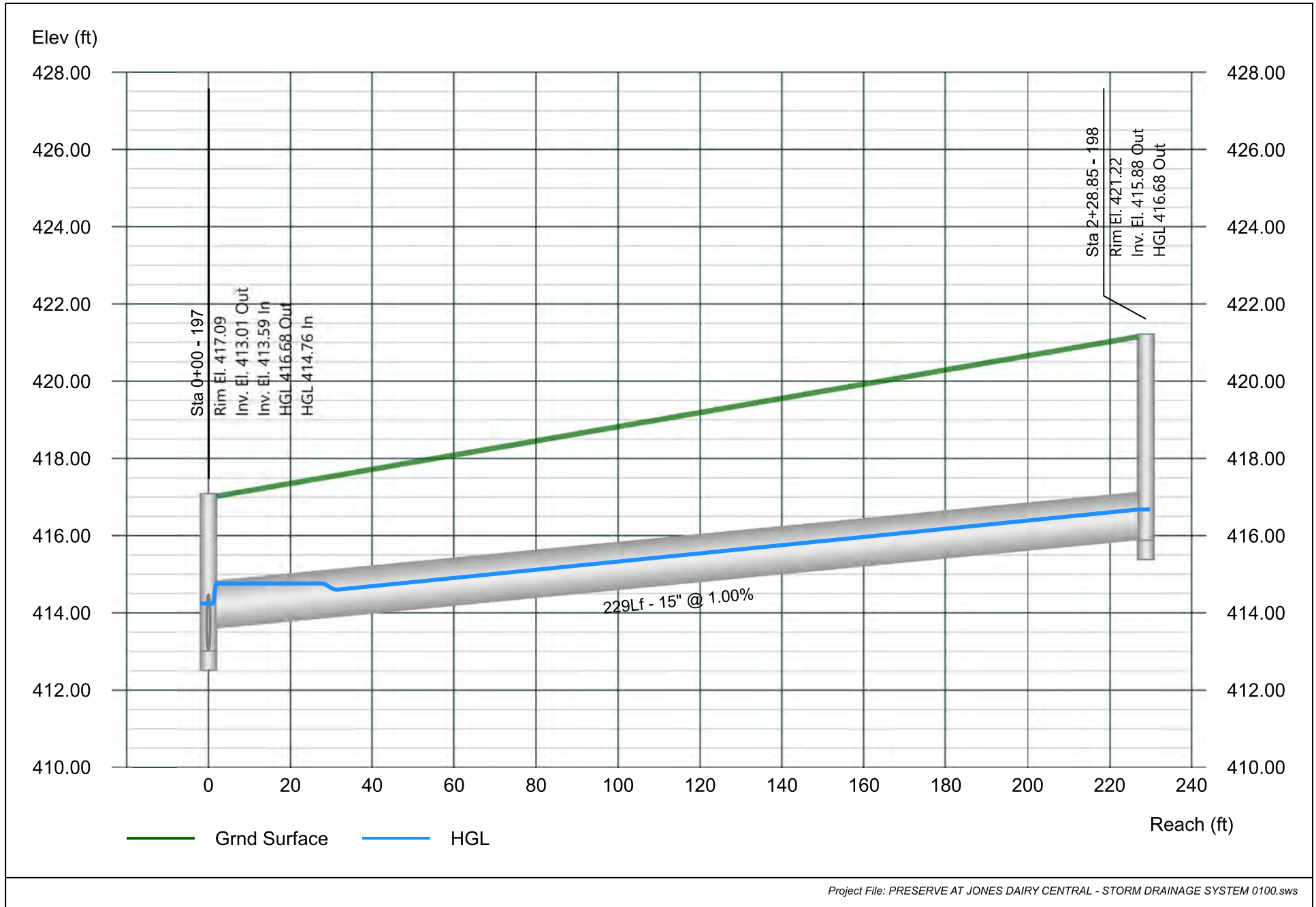
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 98 - 198 TO 197

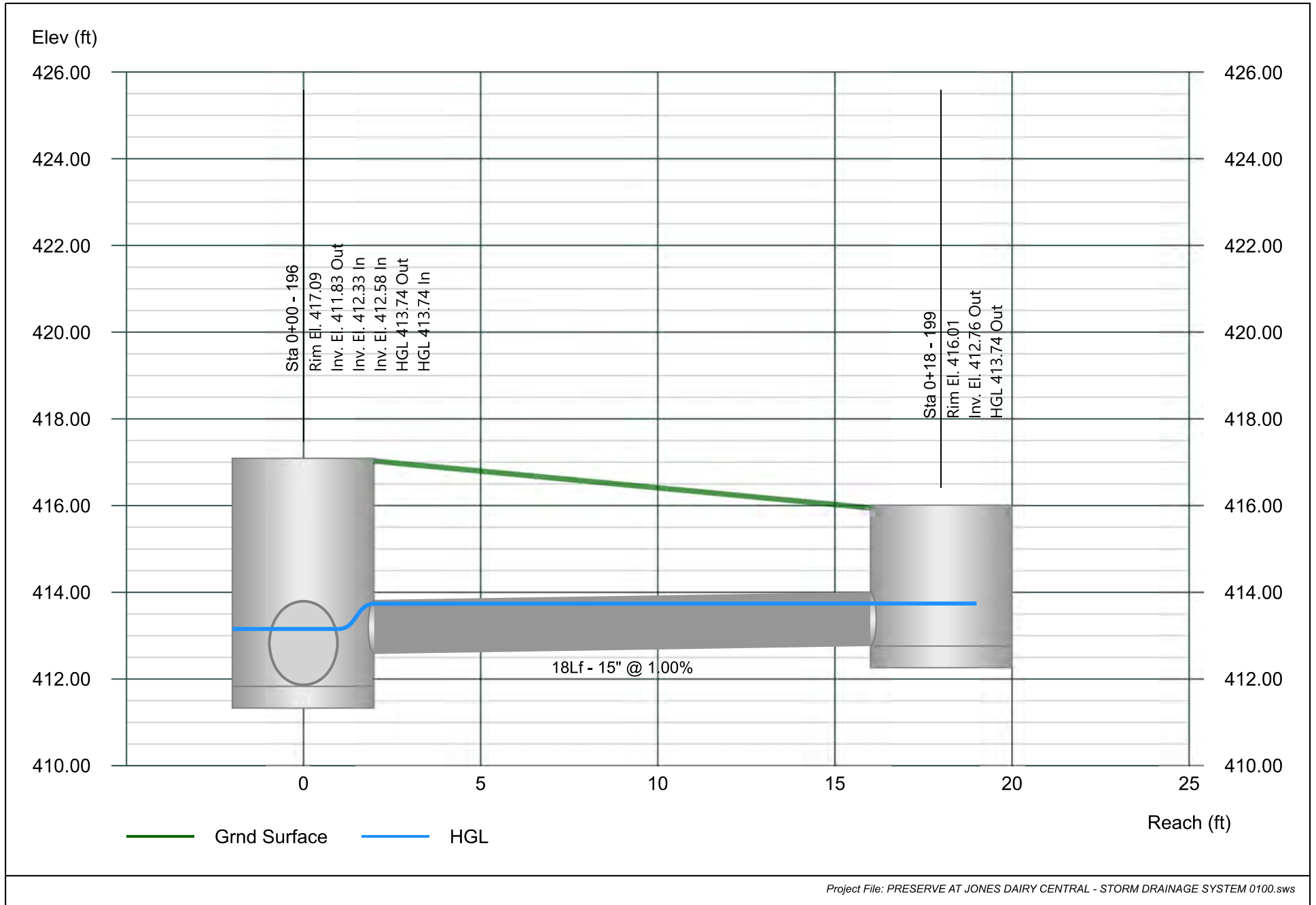


Line 99 - 199 TO 196

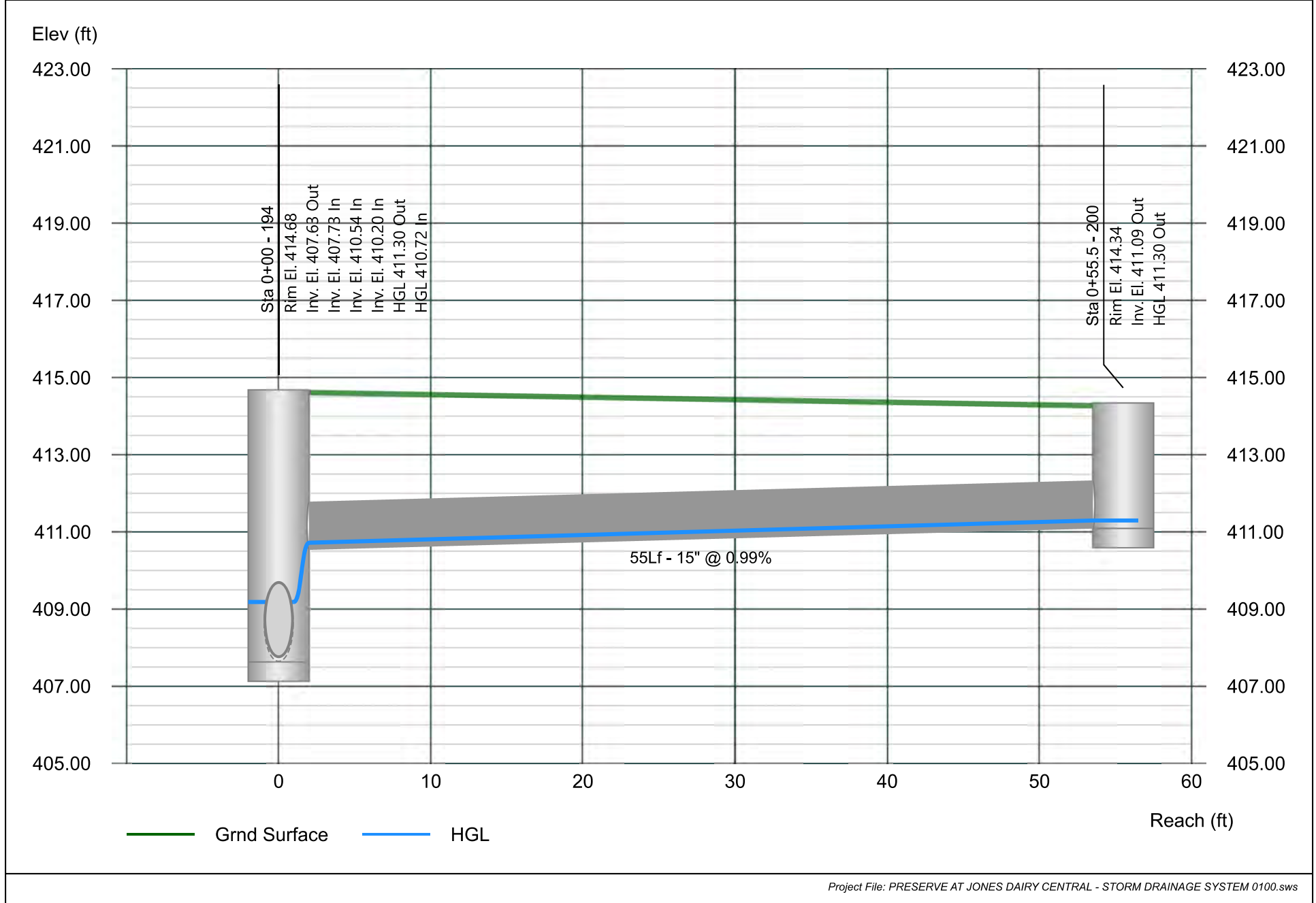
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024



Line 100 - 200 TO 194

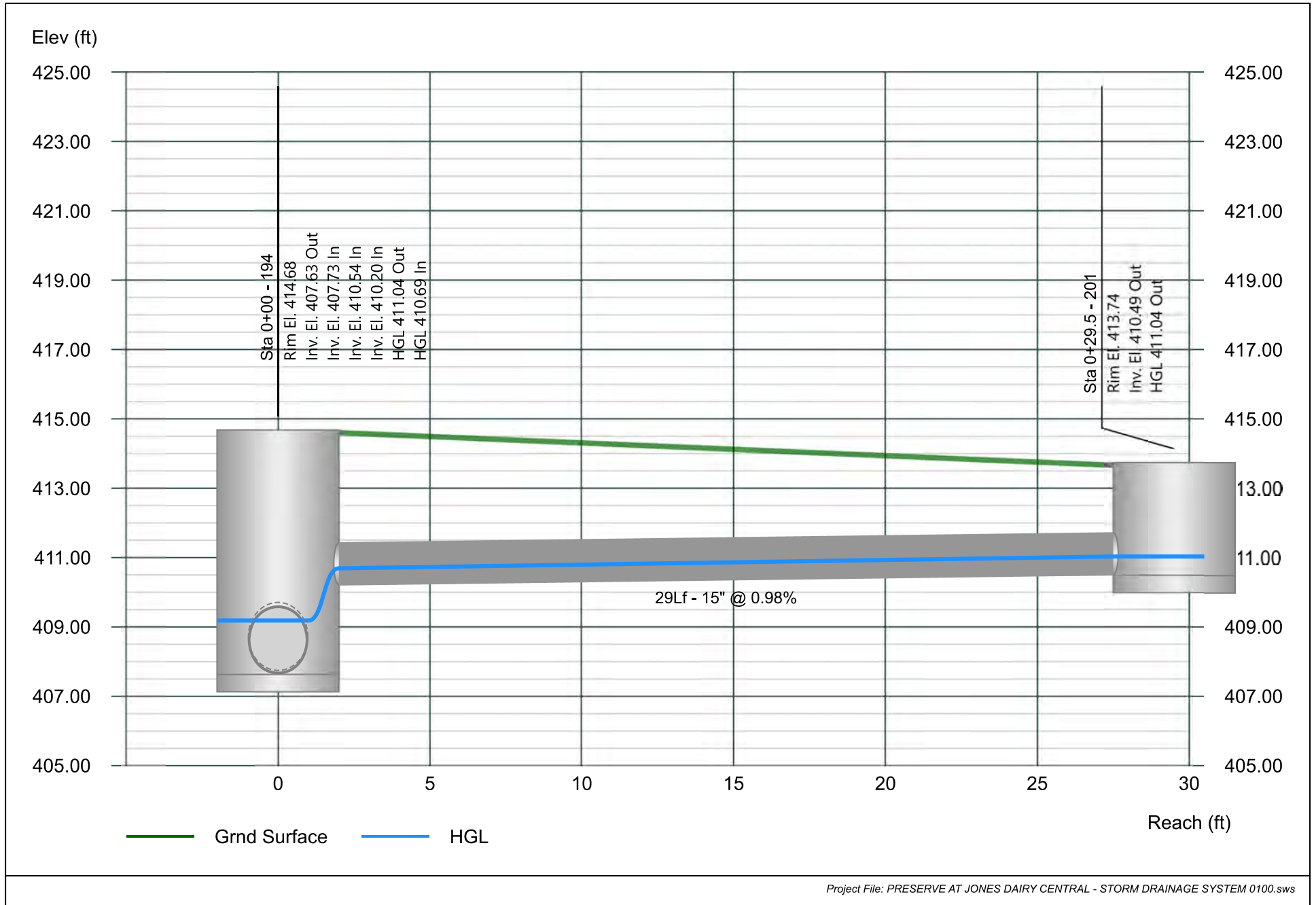


Line 101 - 201 TO 194

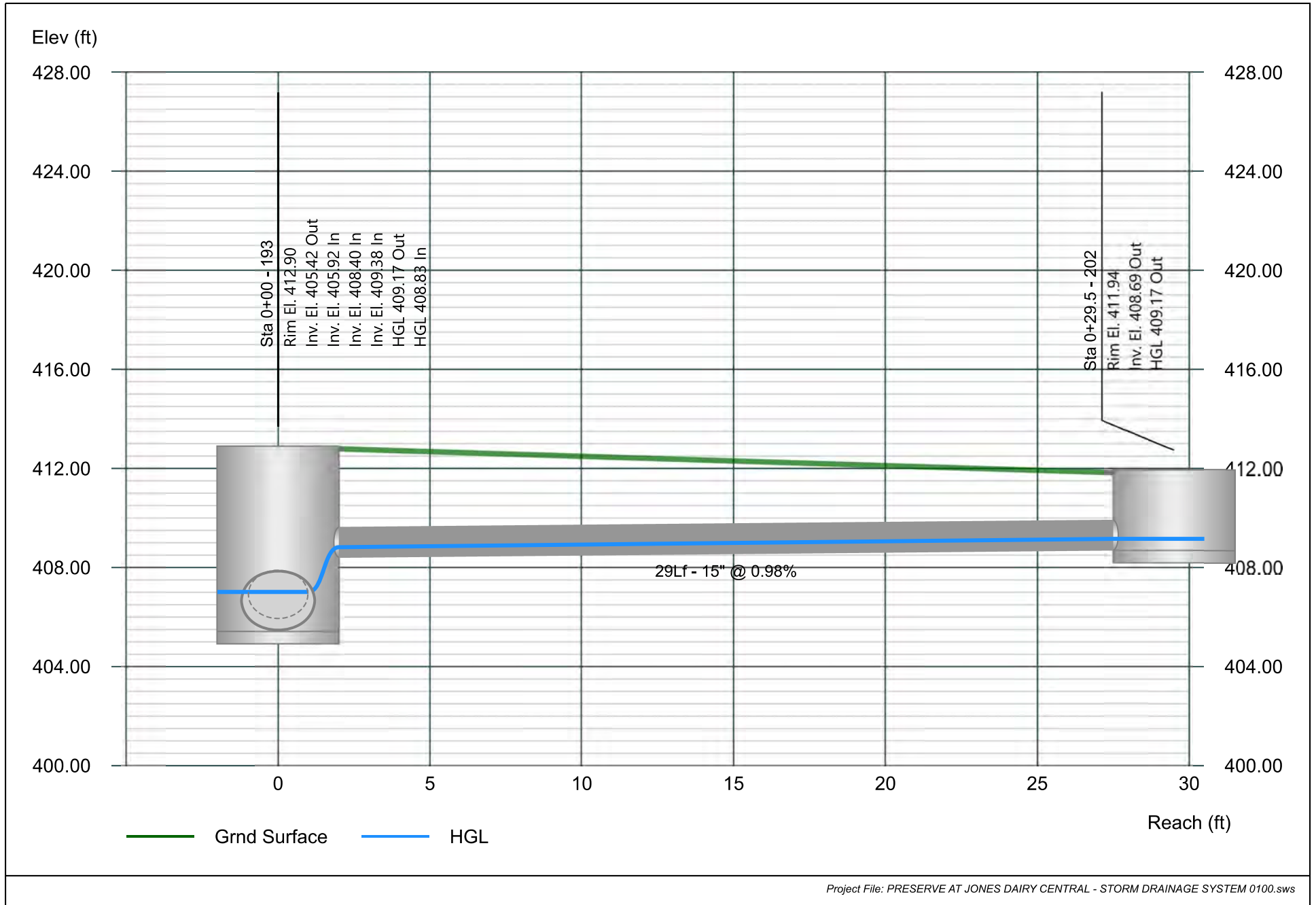
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

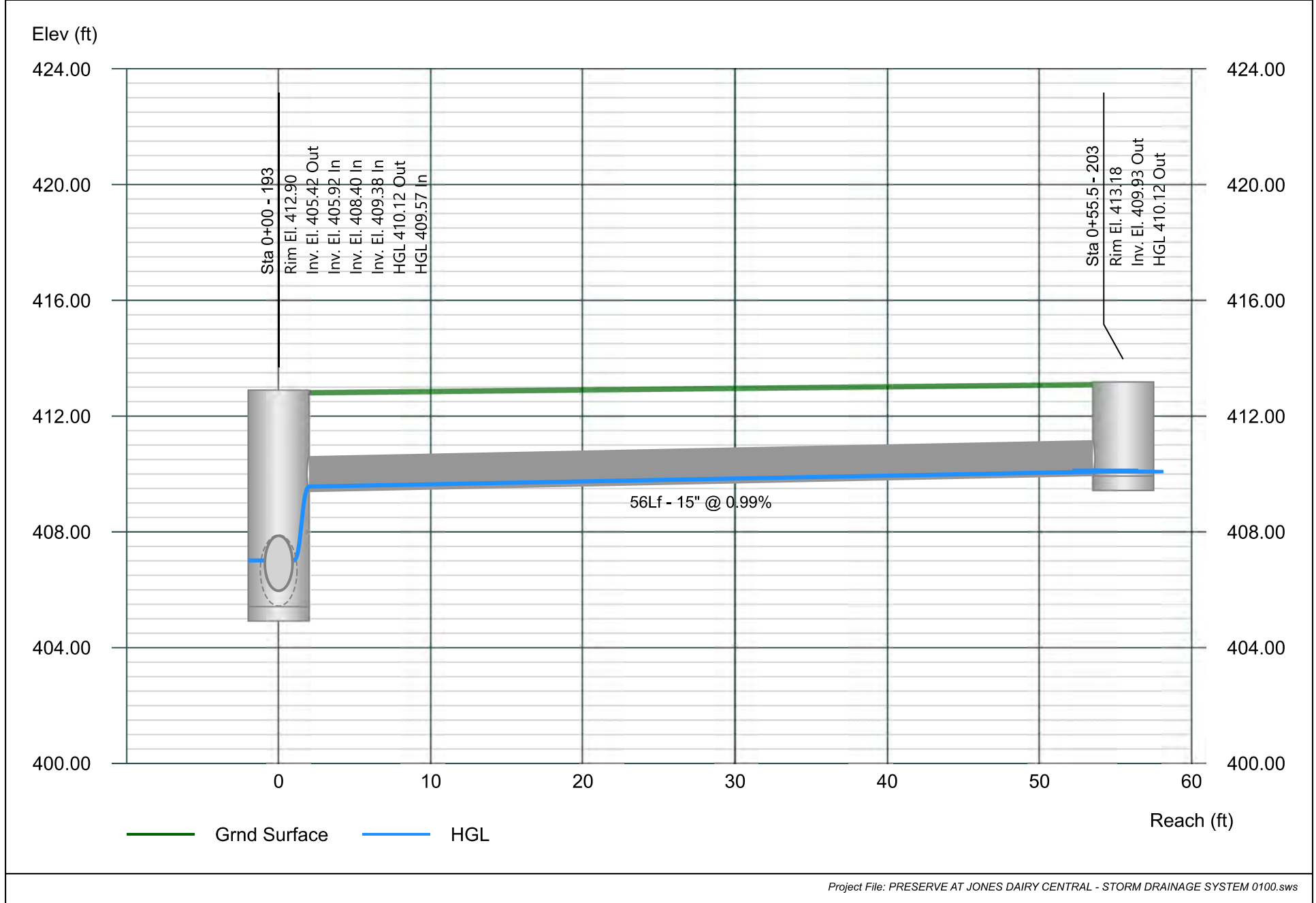
01-19-2024



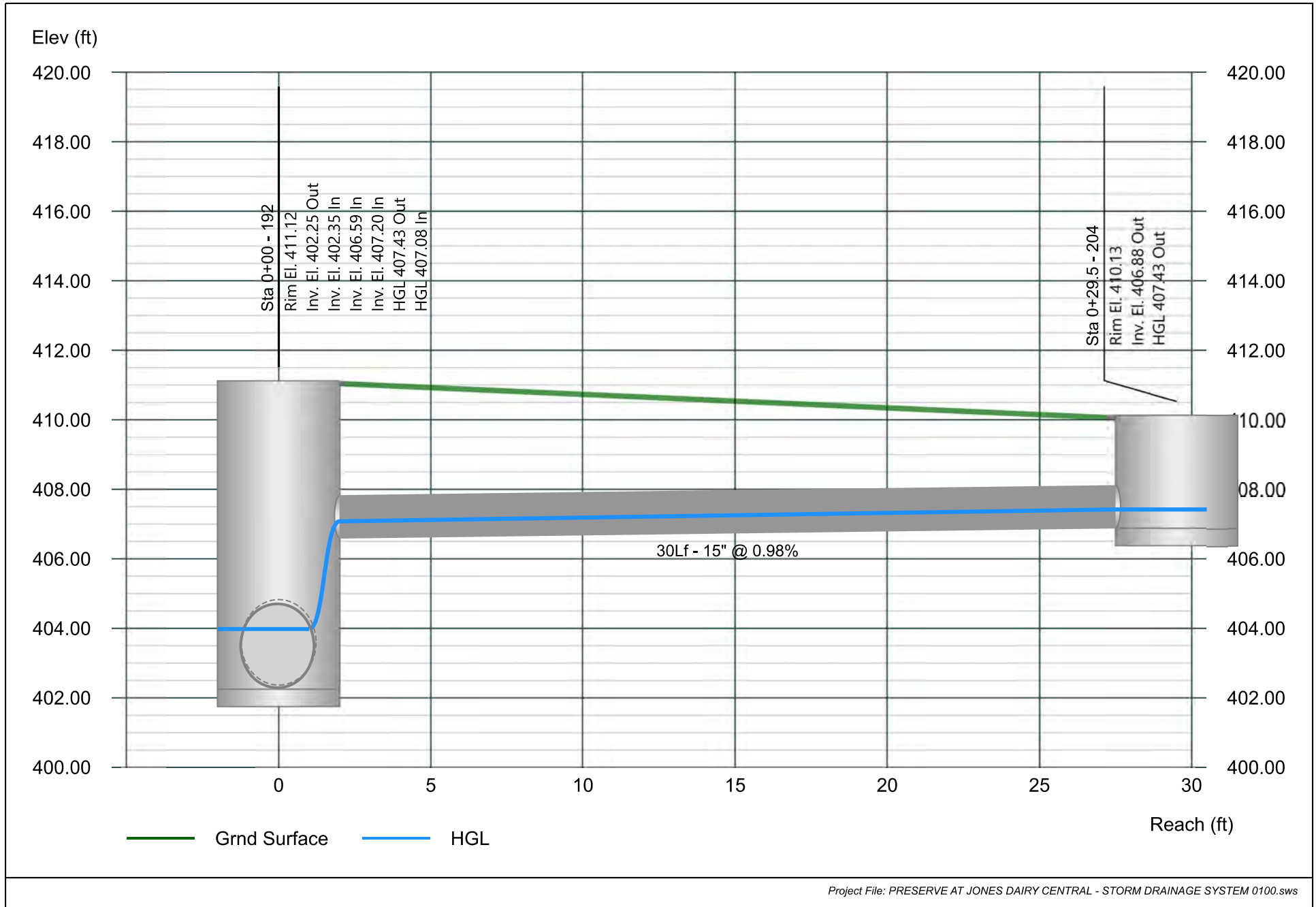
Line 102 - 202 TO 193



Line 103 - 203 TO 193



Line 104 - 204 TO 192

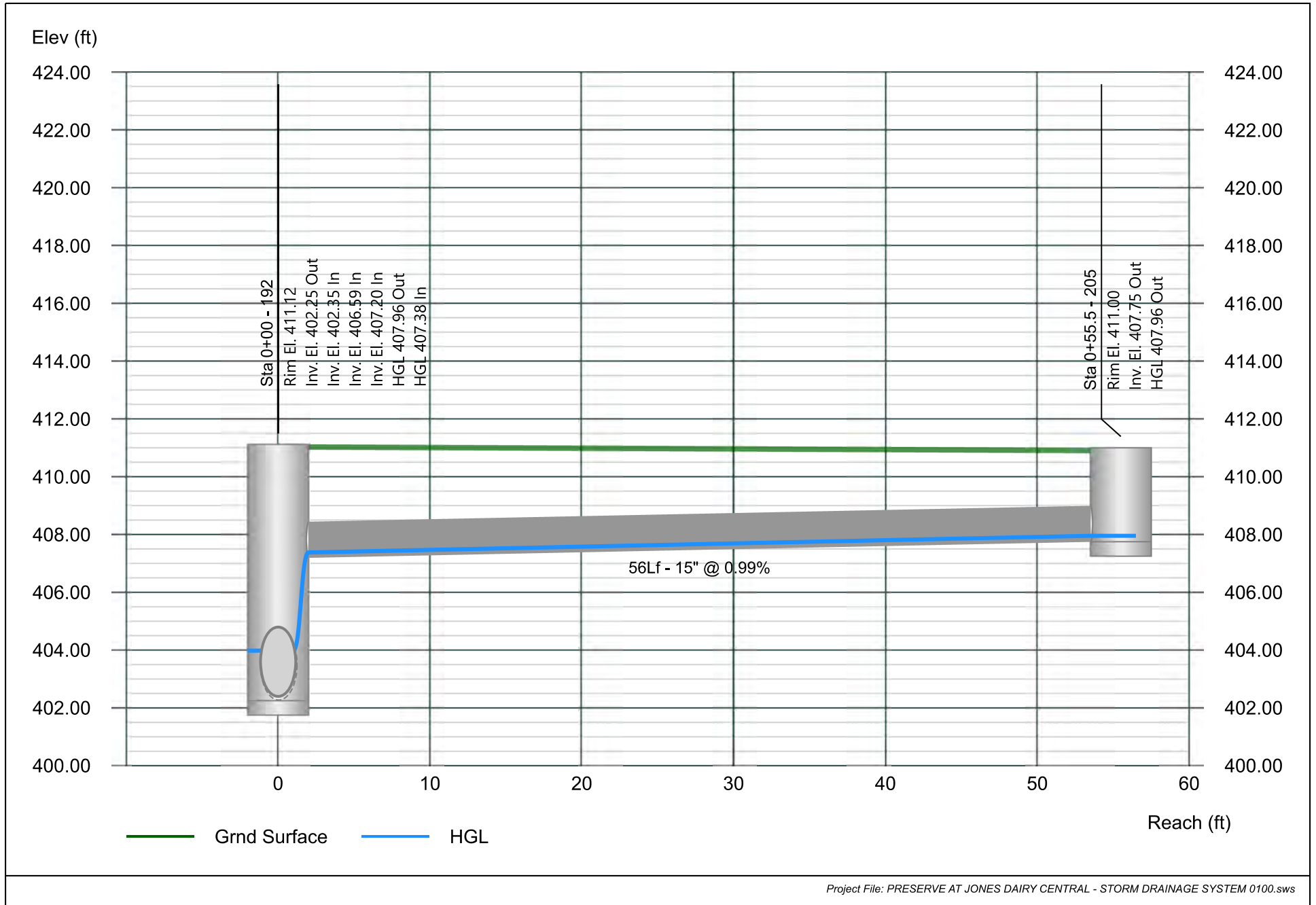


Line 105 - 205 TO 192

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

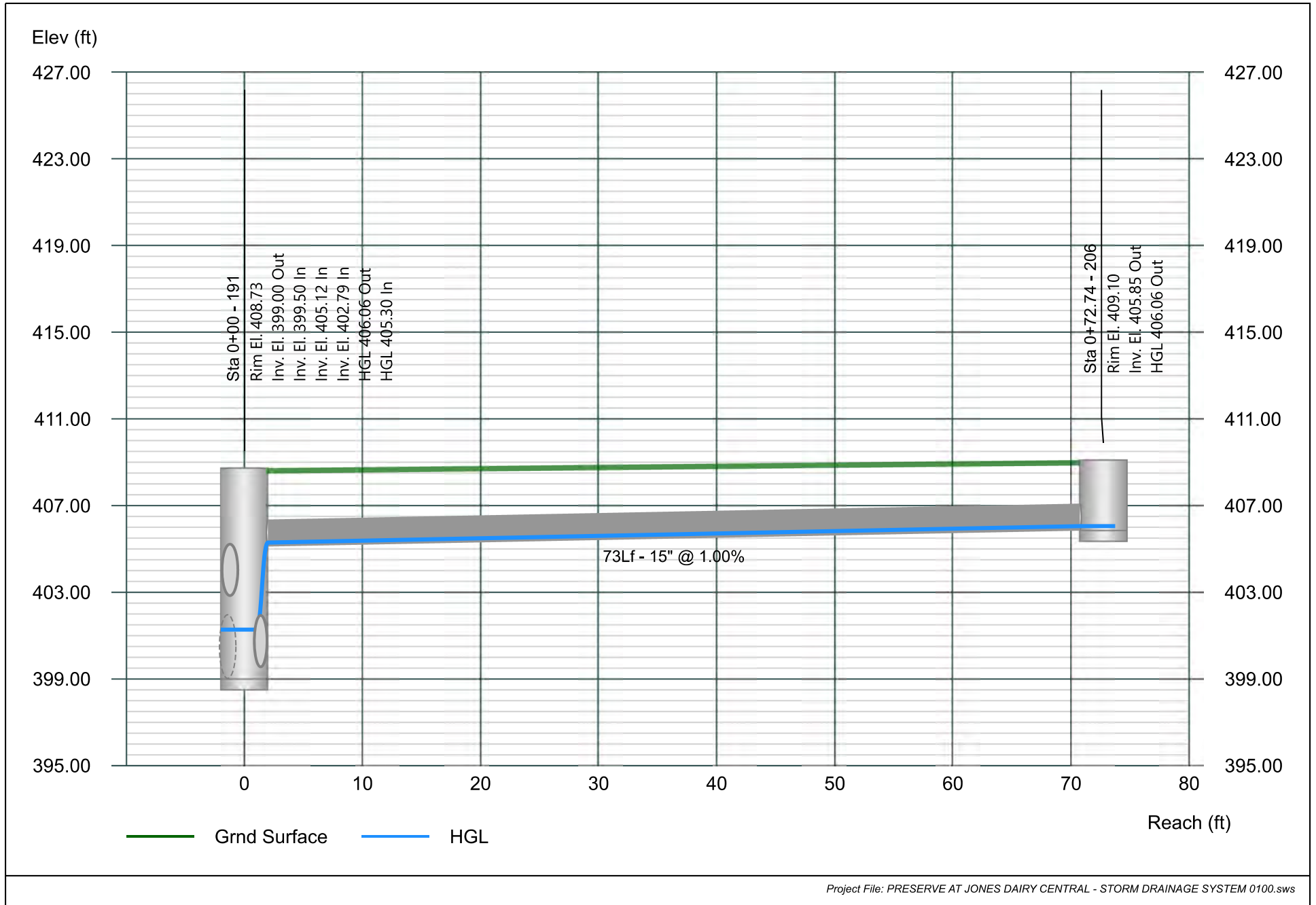


Line 106 - 206 TO 191

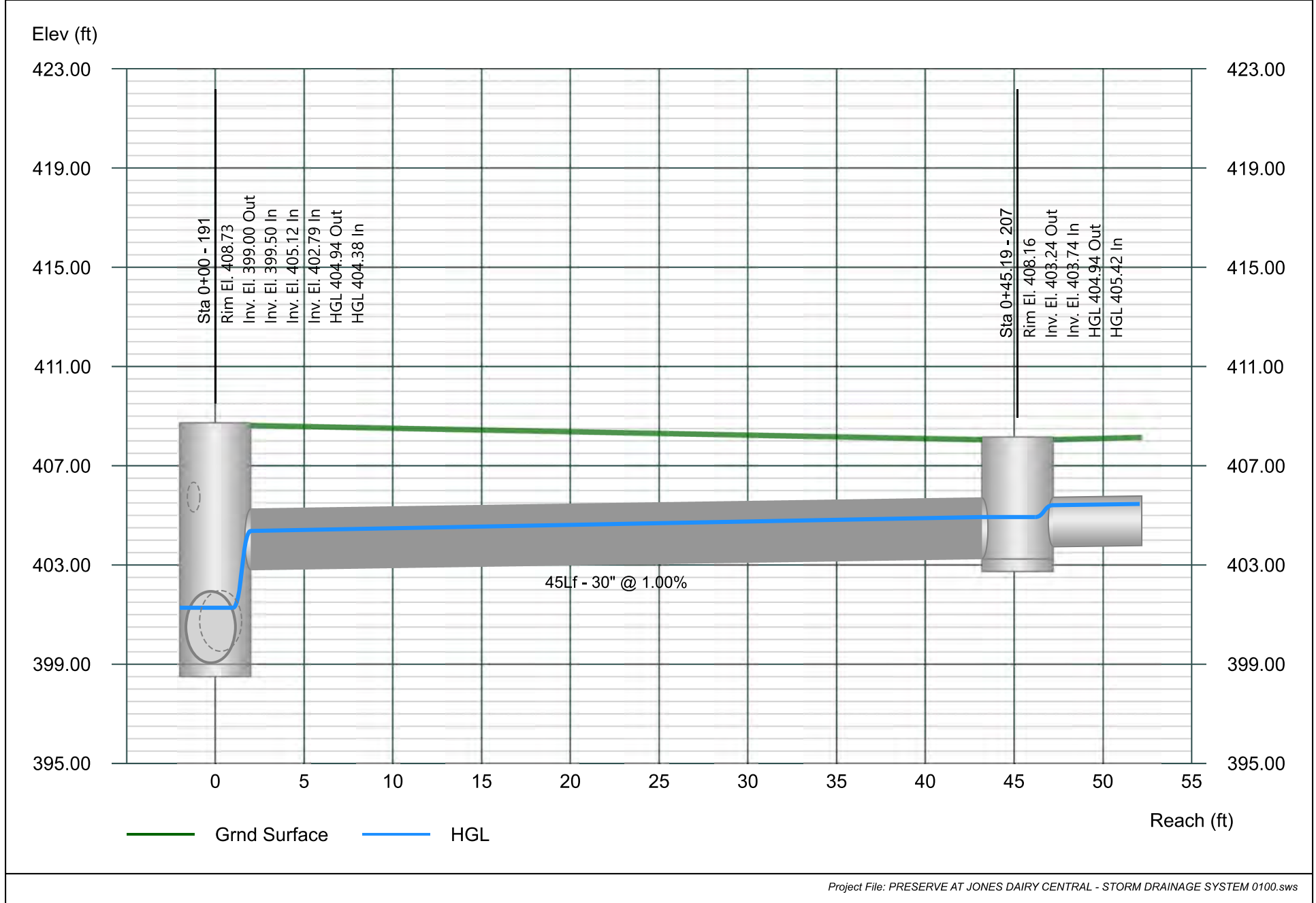
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

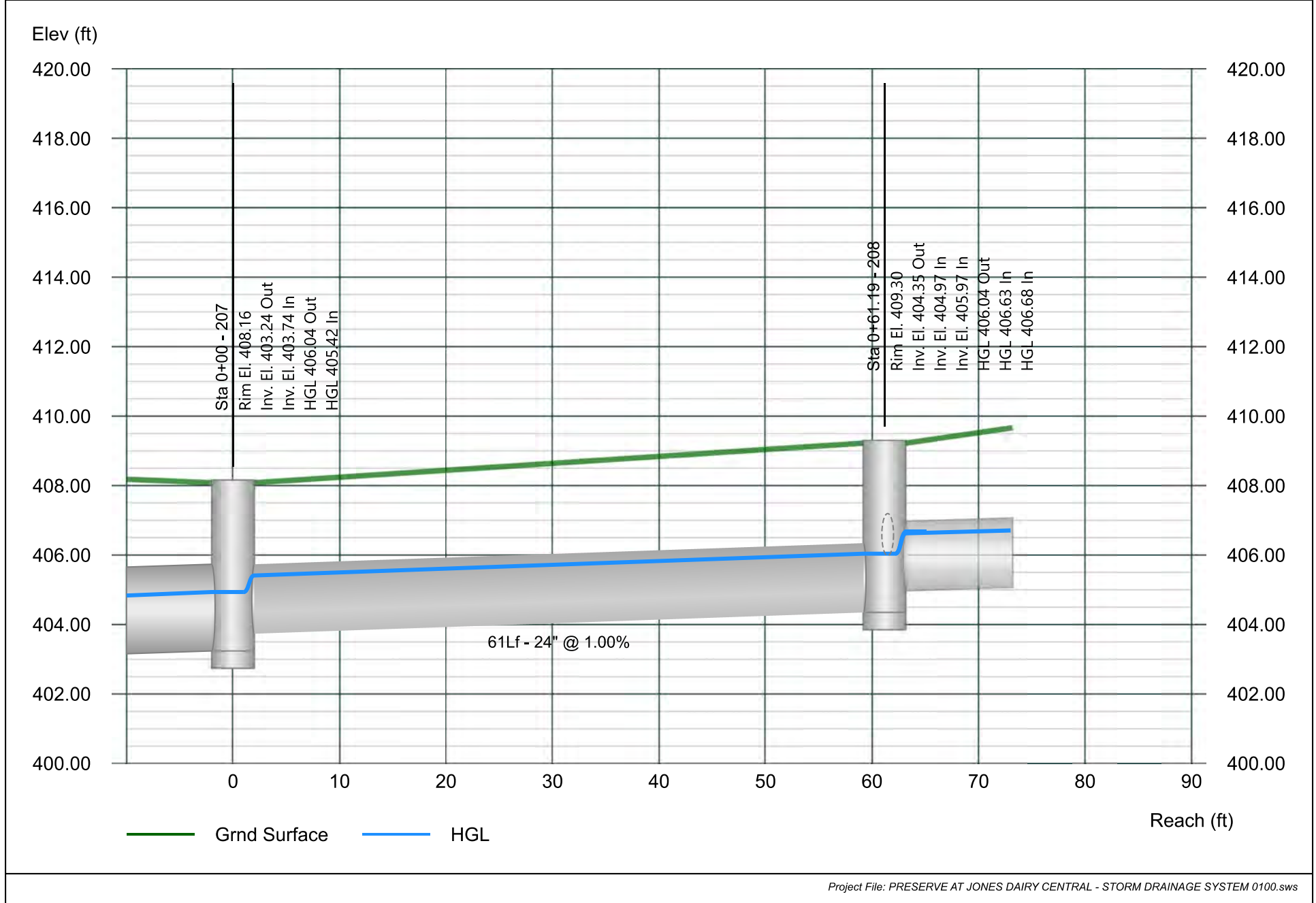
01-19-2024



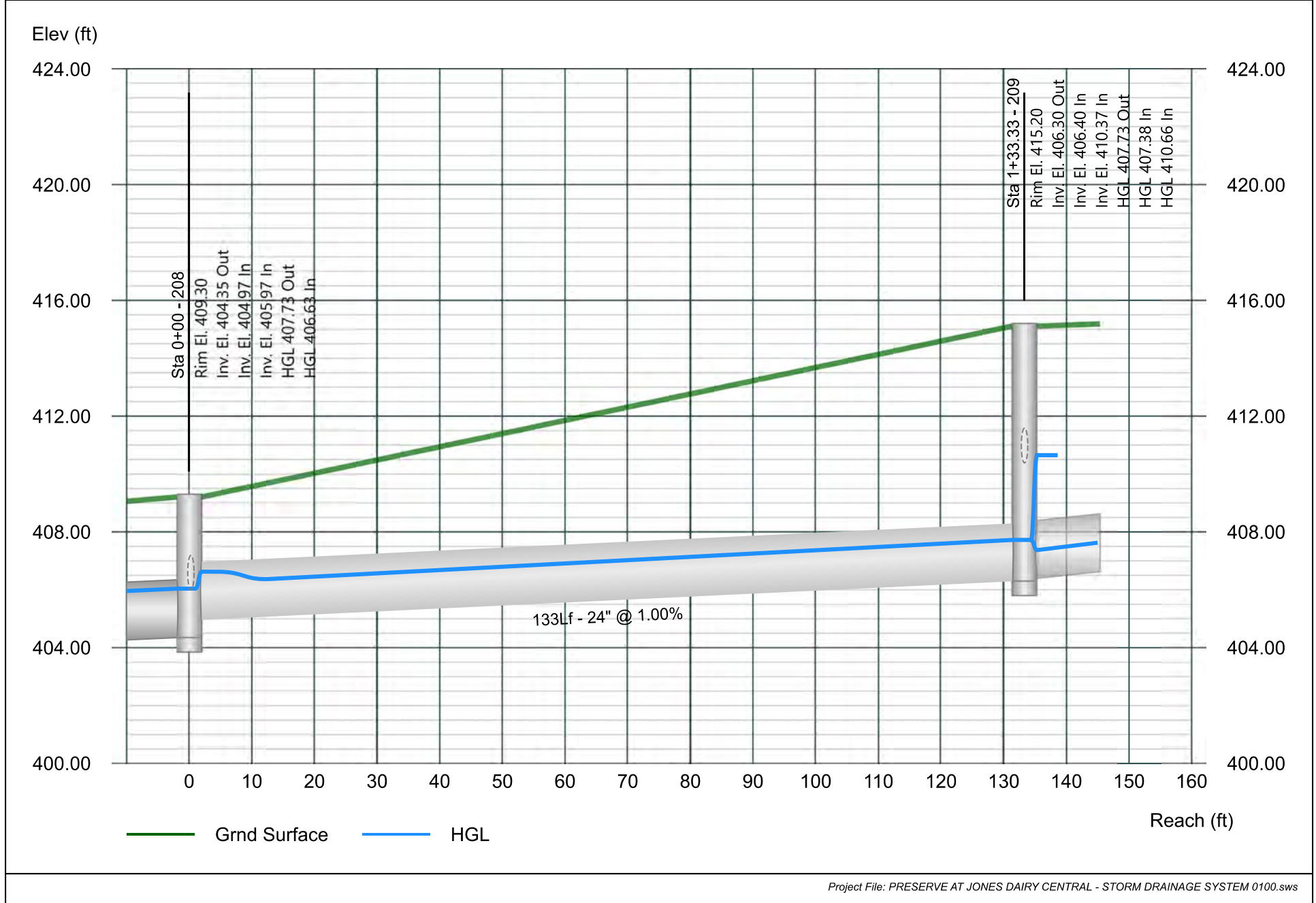
Line 107 - 207 TO 191



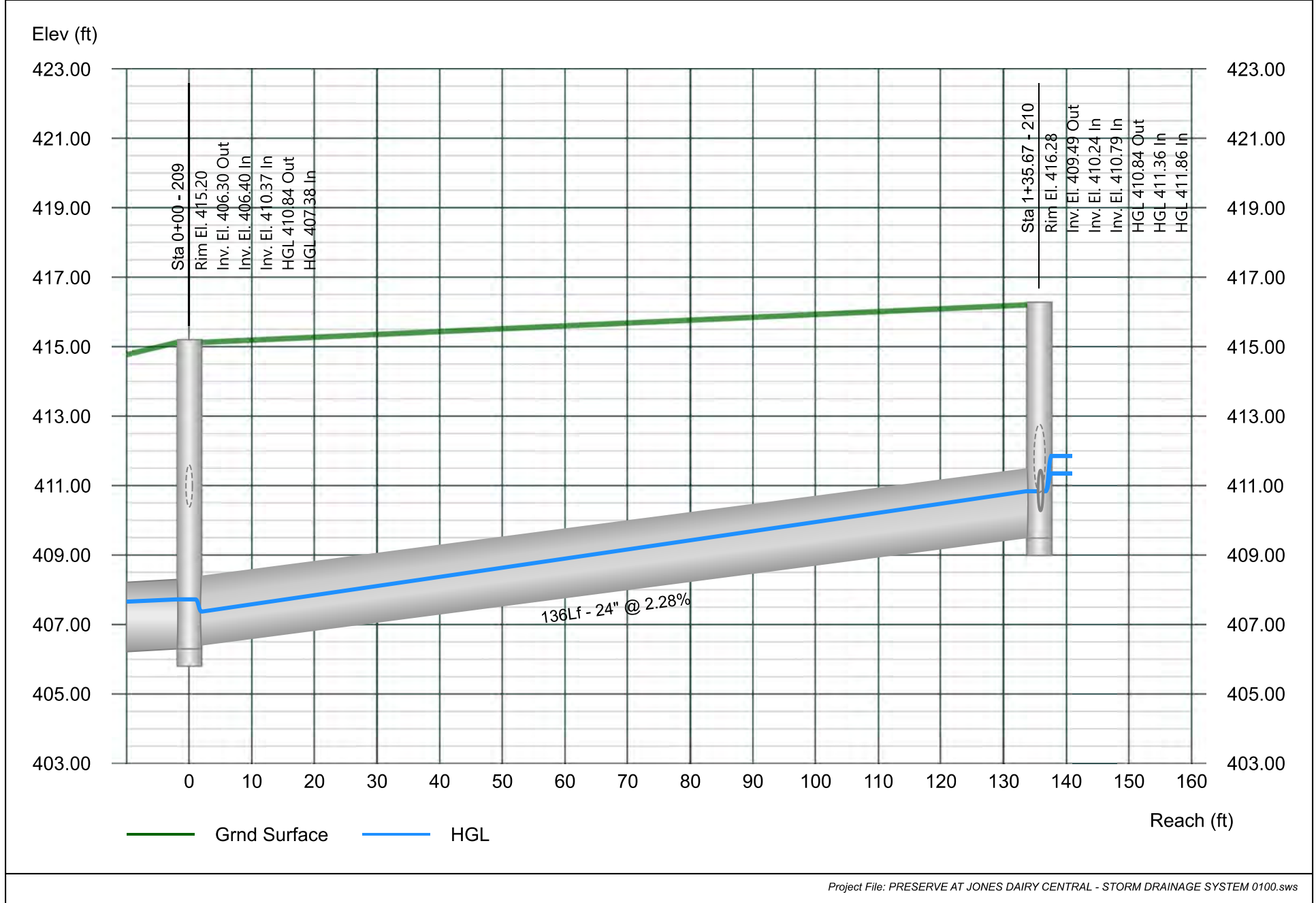
Line 108 - 208 TO 207



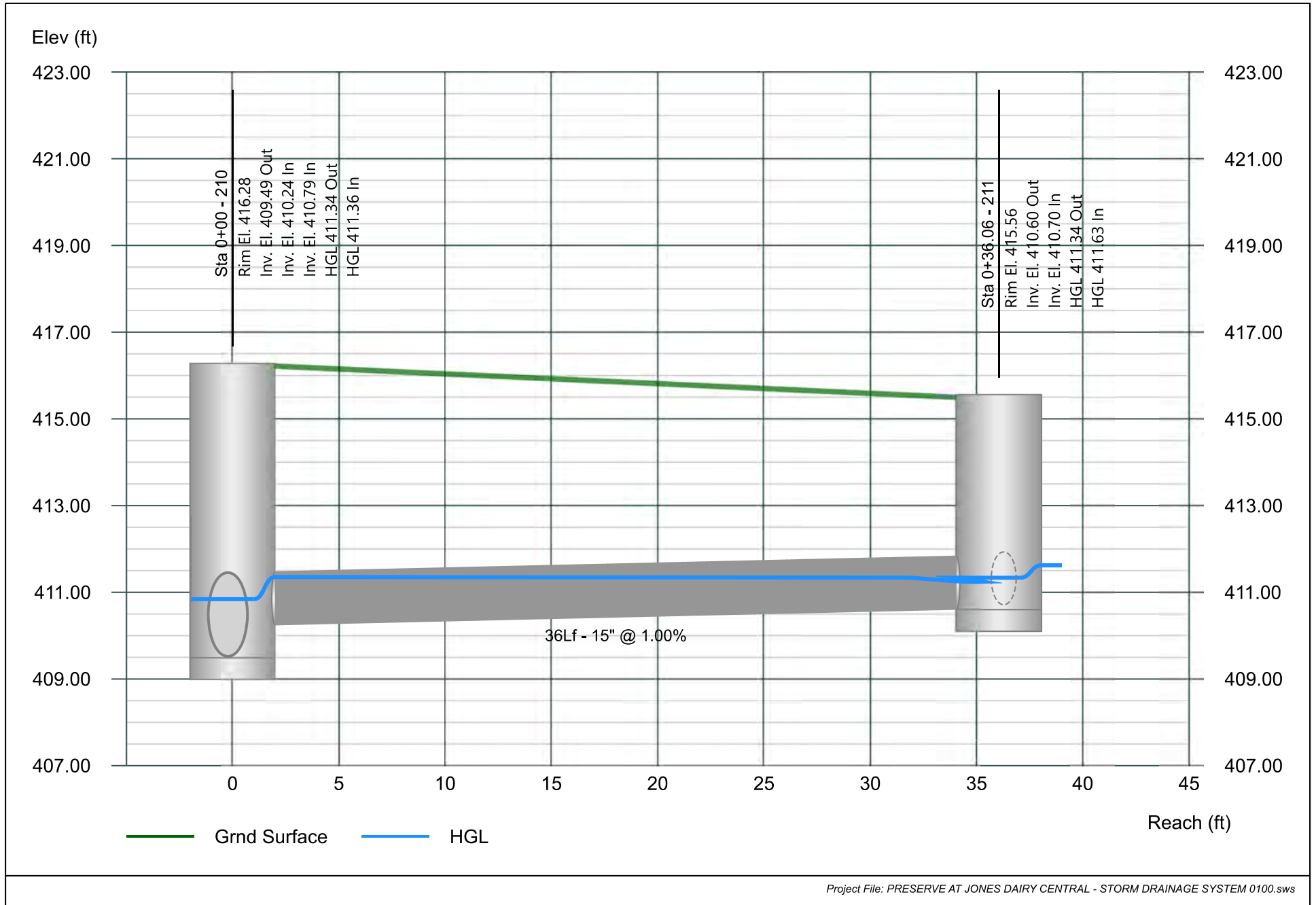
Line 109 - 209 TO 208



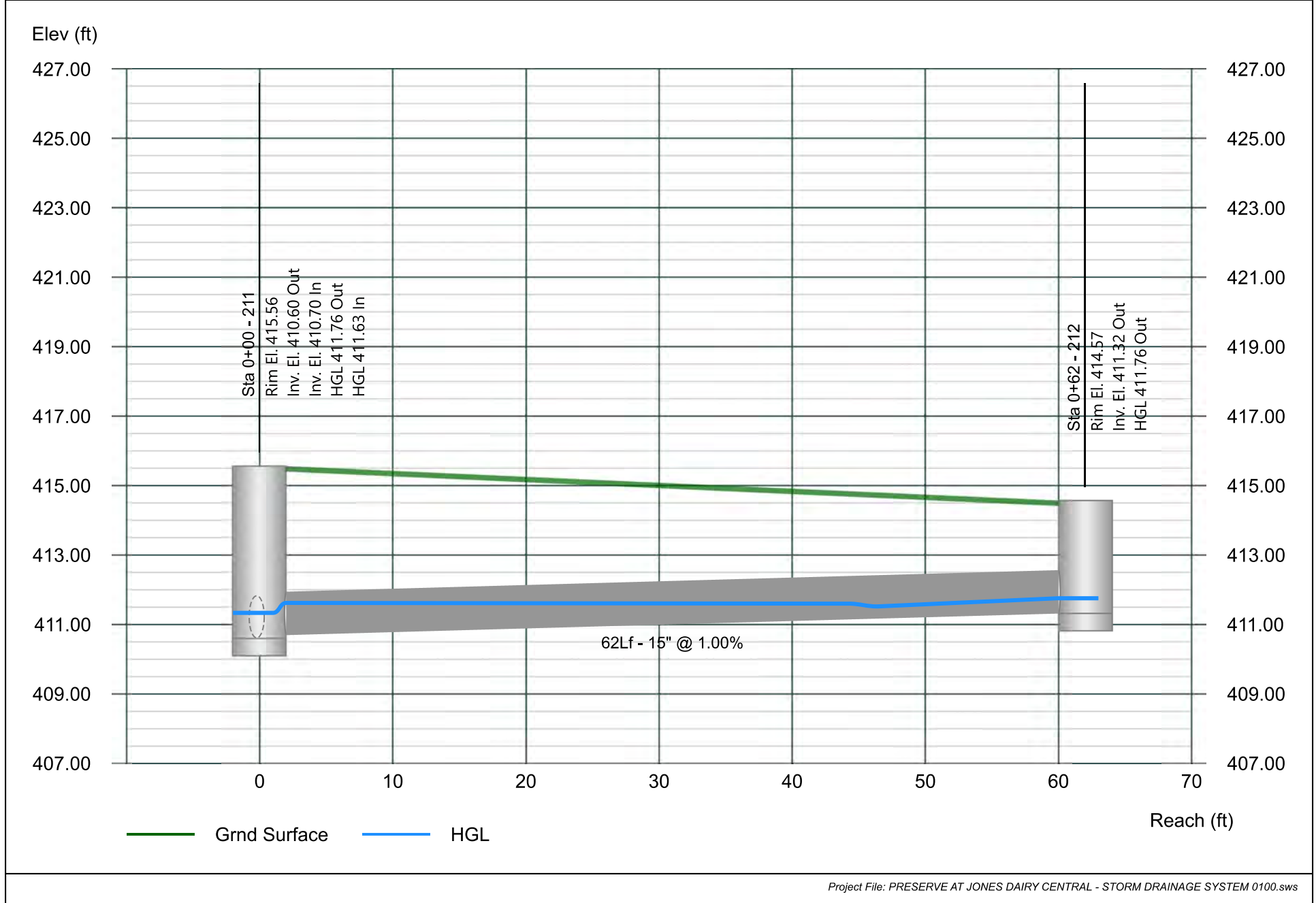
Line 110 - 210 TO 209



Line 111 - 211 TO 210



Line 112 - 212 TO 211

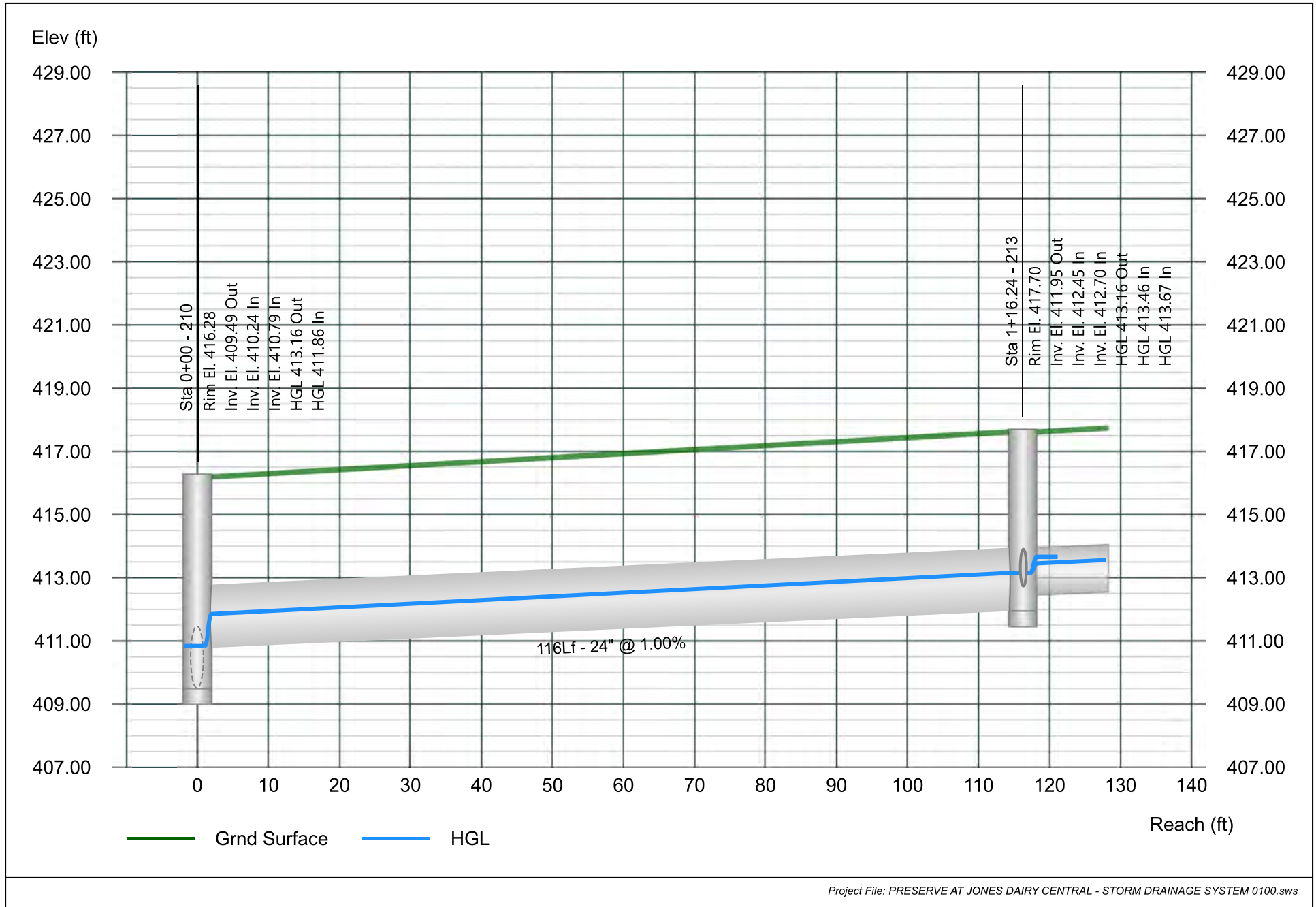


Line 113 - 213 TO 210

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

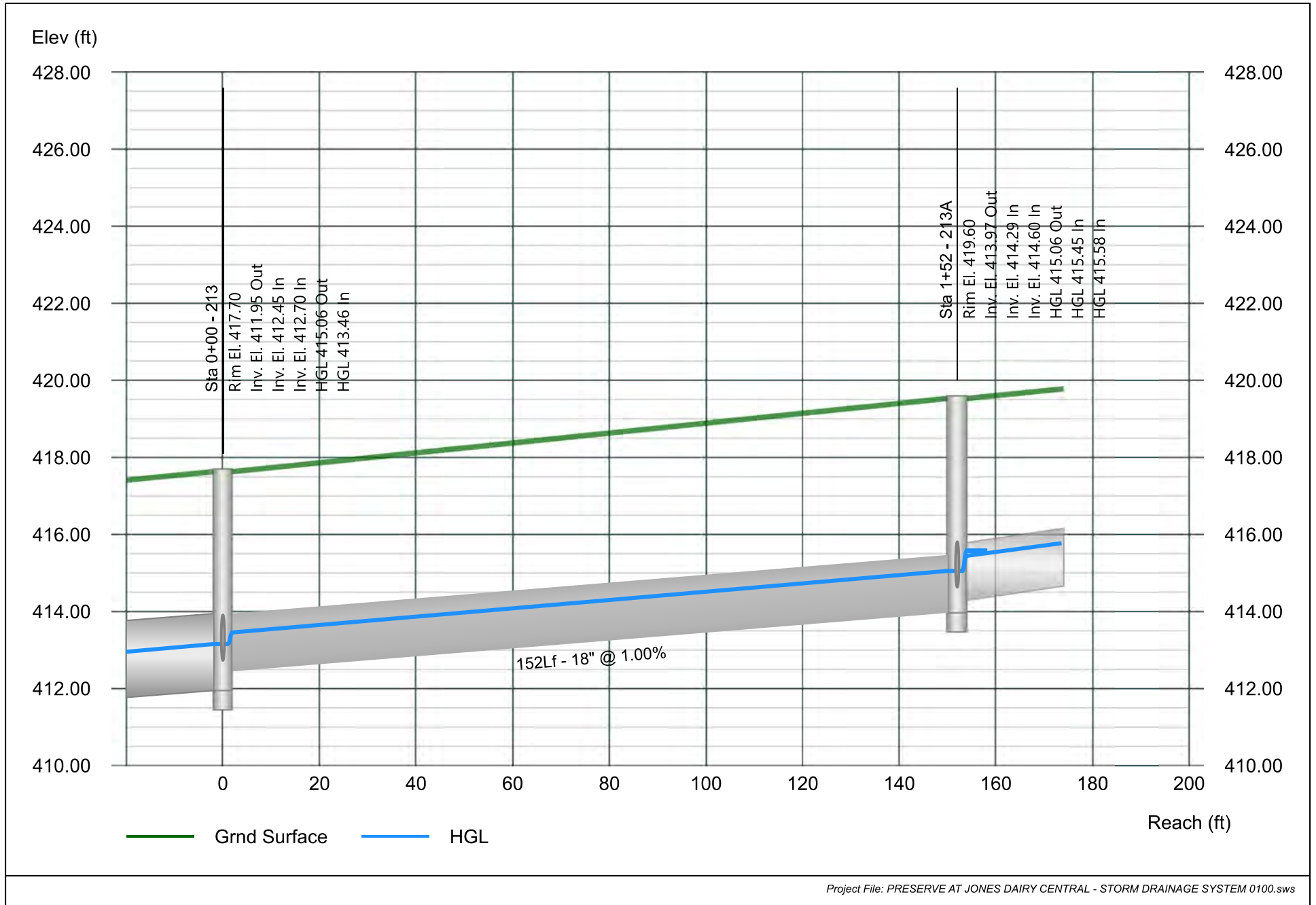


Line 114 - 213A TO 213

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

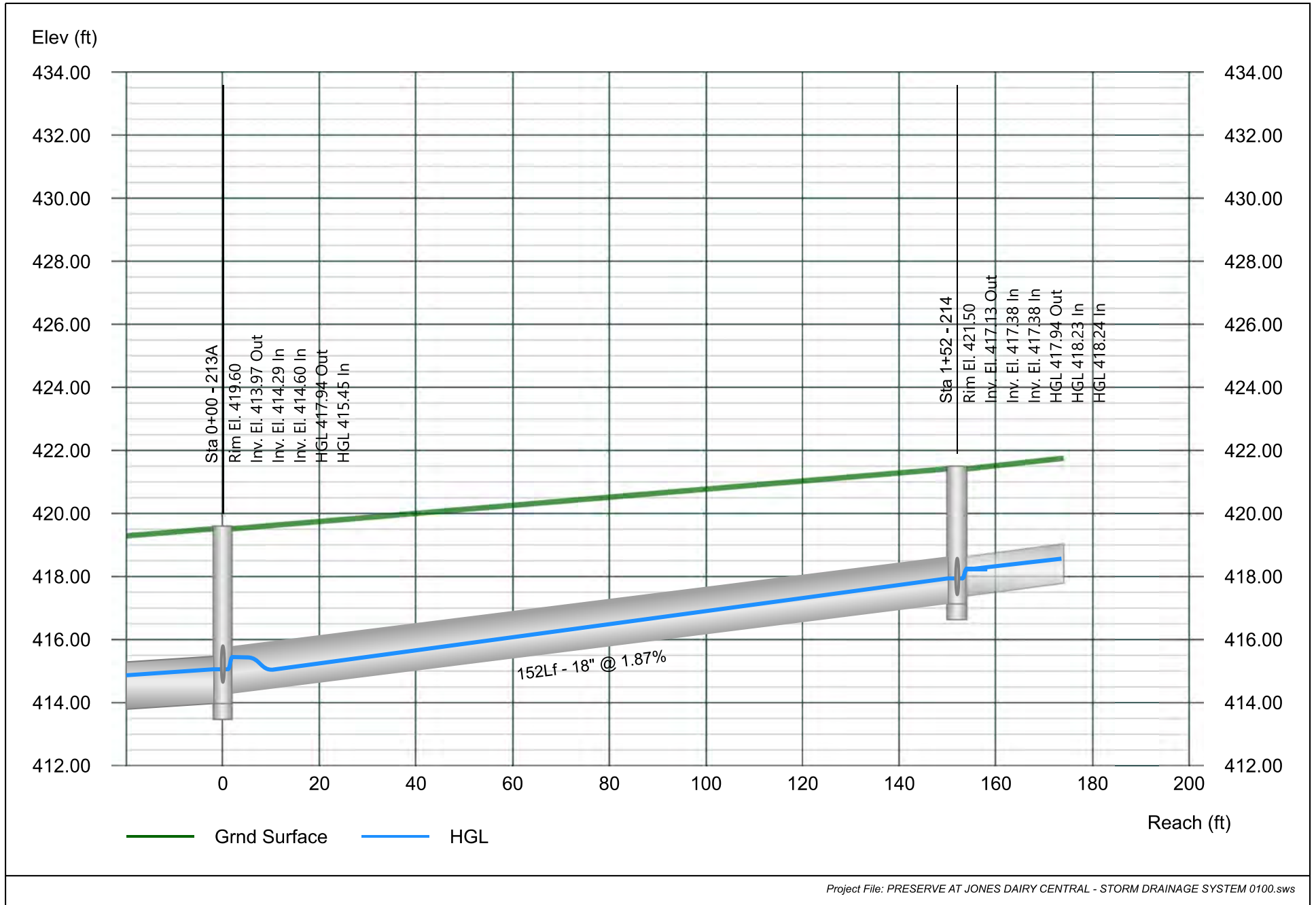


Line 115 - 214 TO 213A

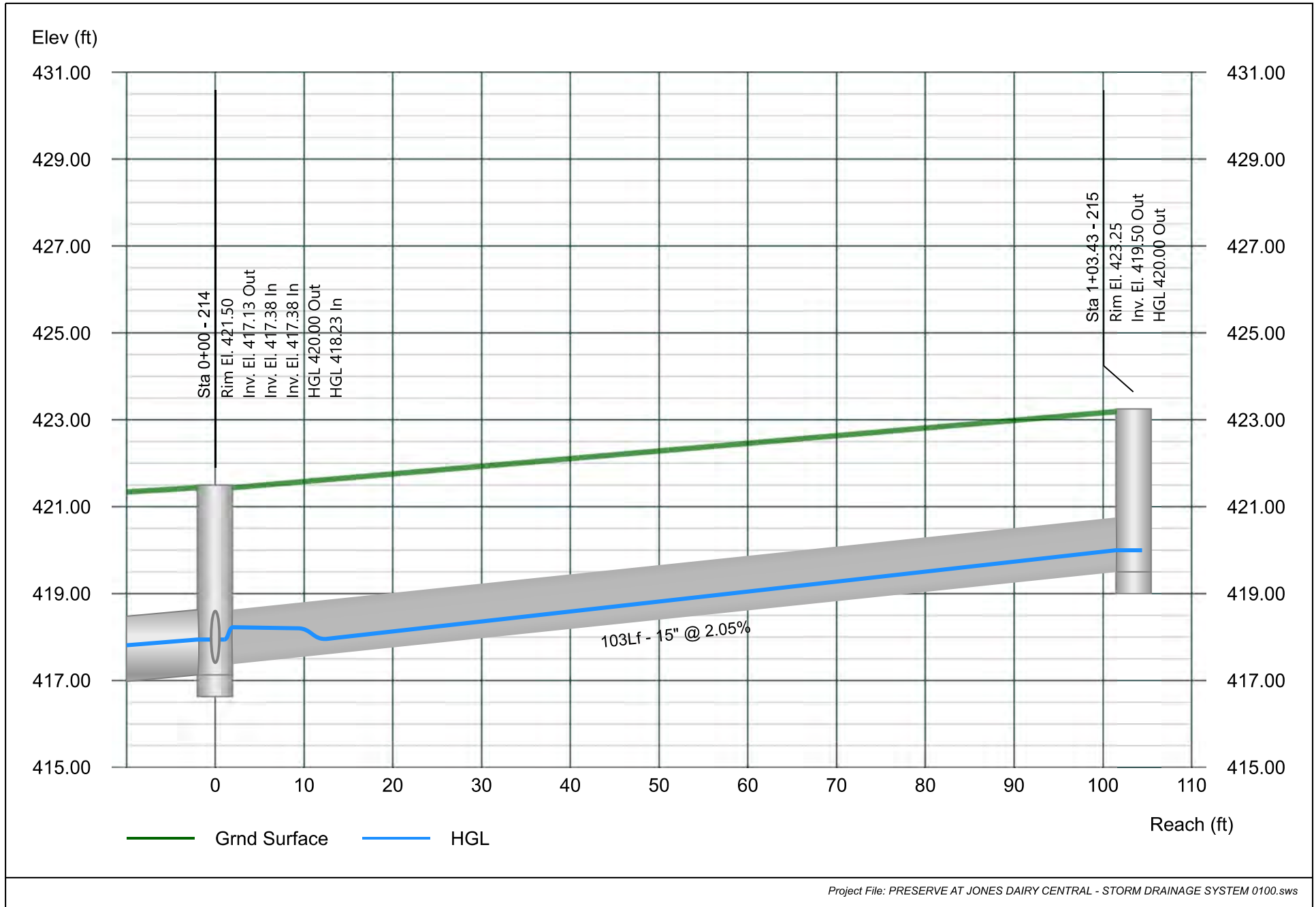
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

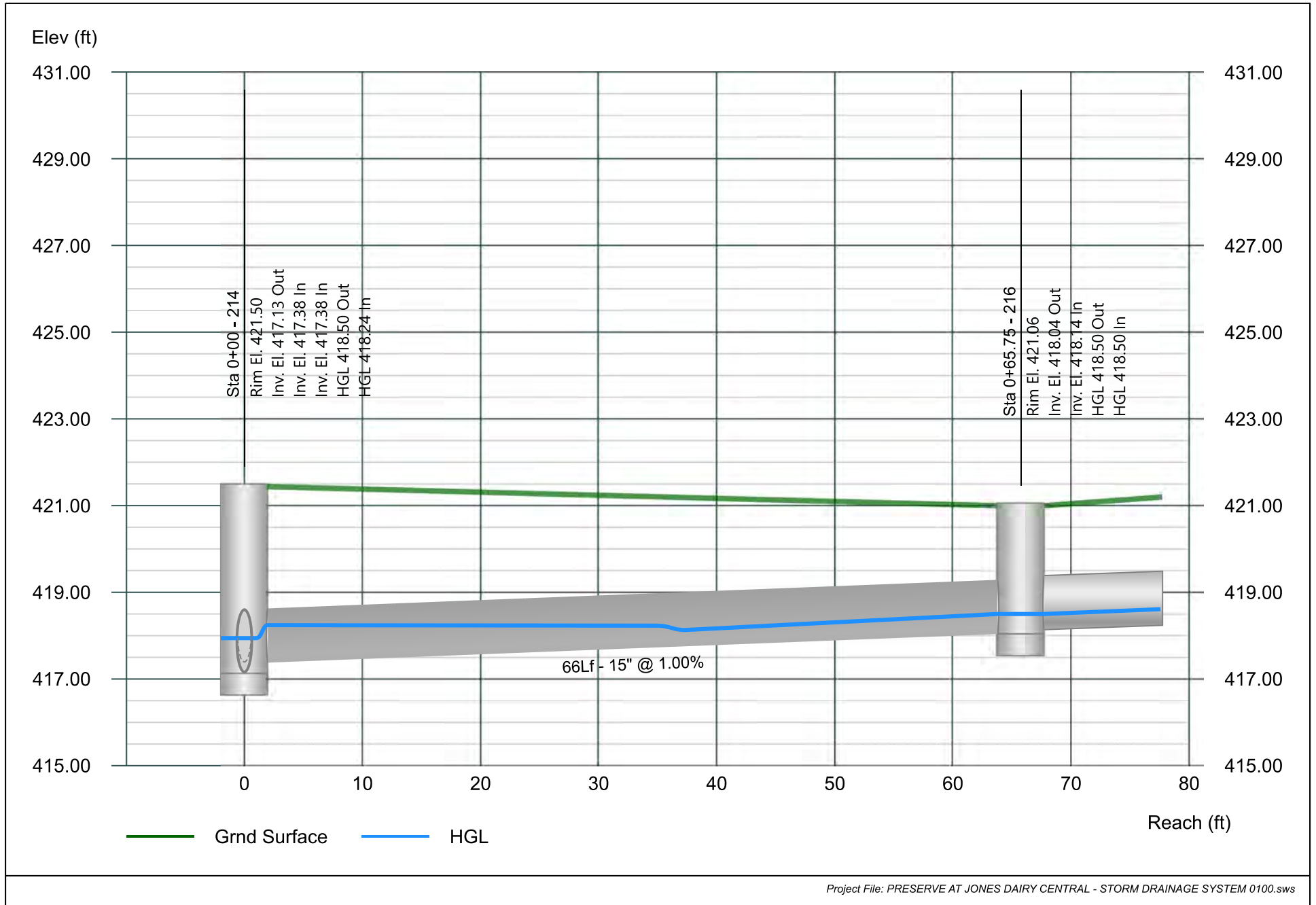
01-19-2024



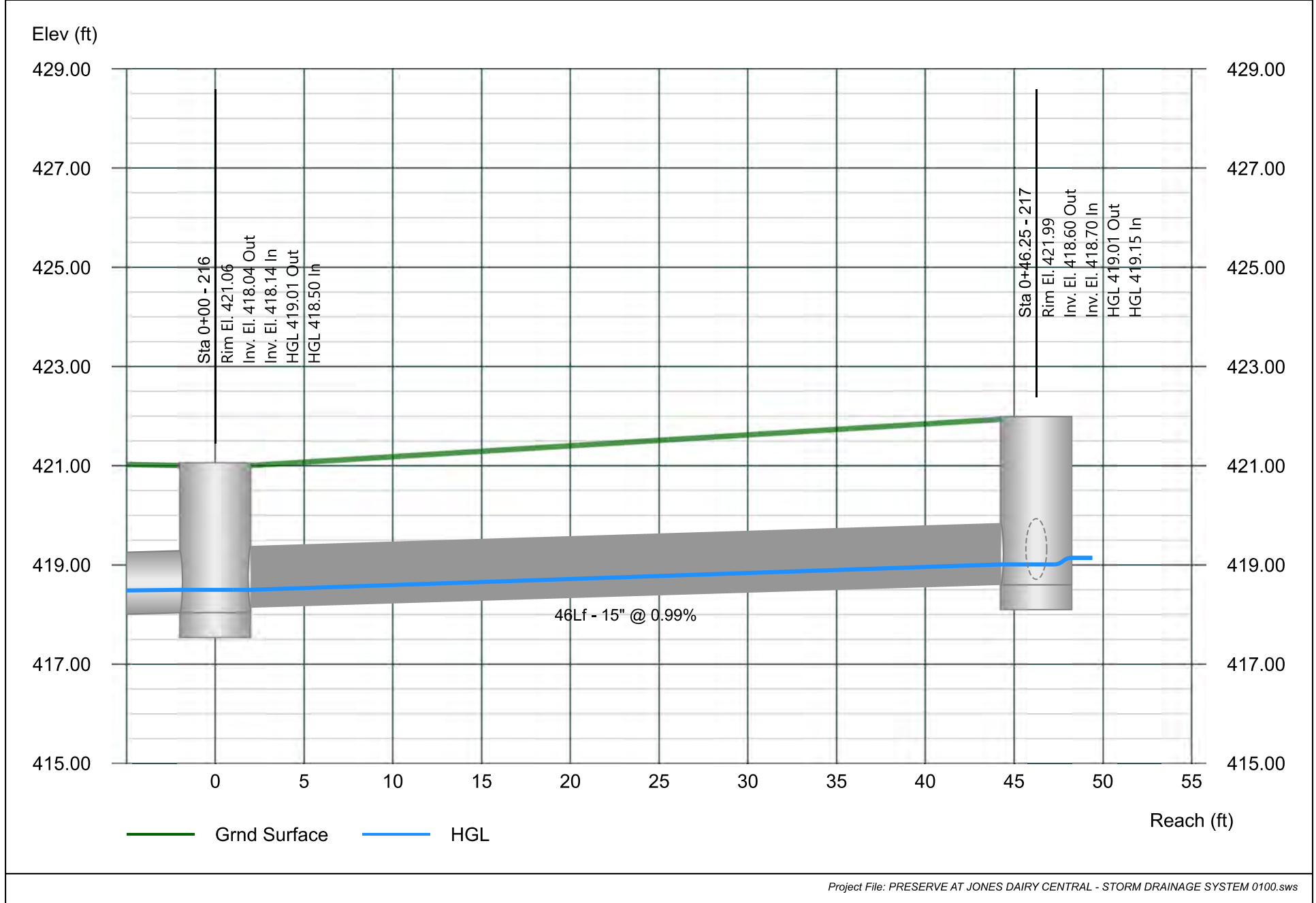
Line 116 - 215 TO 214



Line 117 - 216 TO 214



Line 118 - 217 TO 216

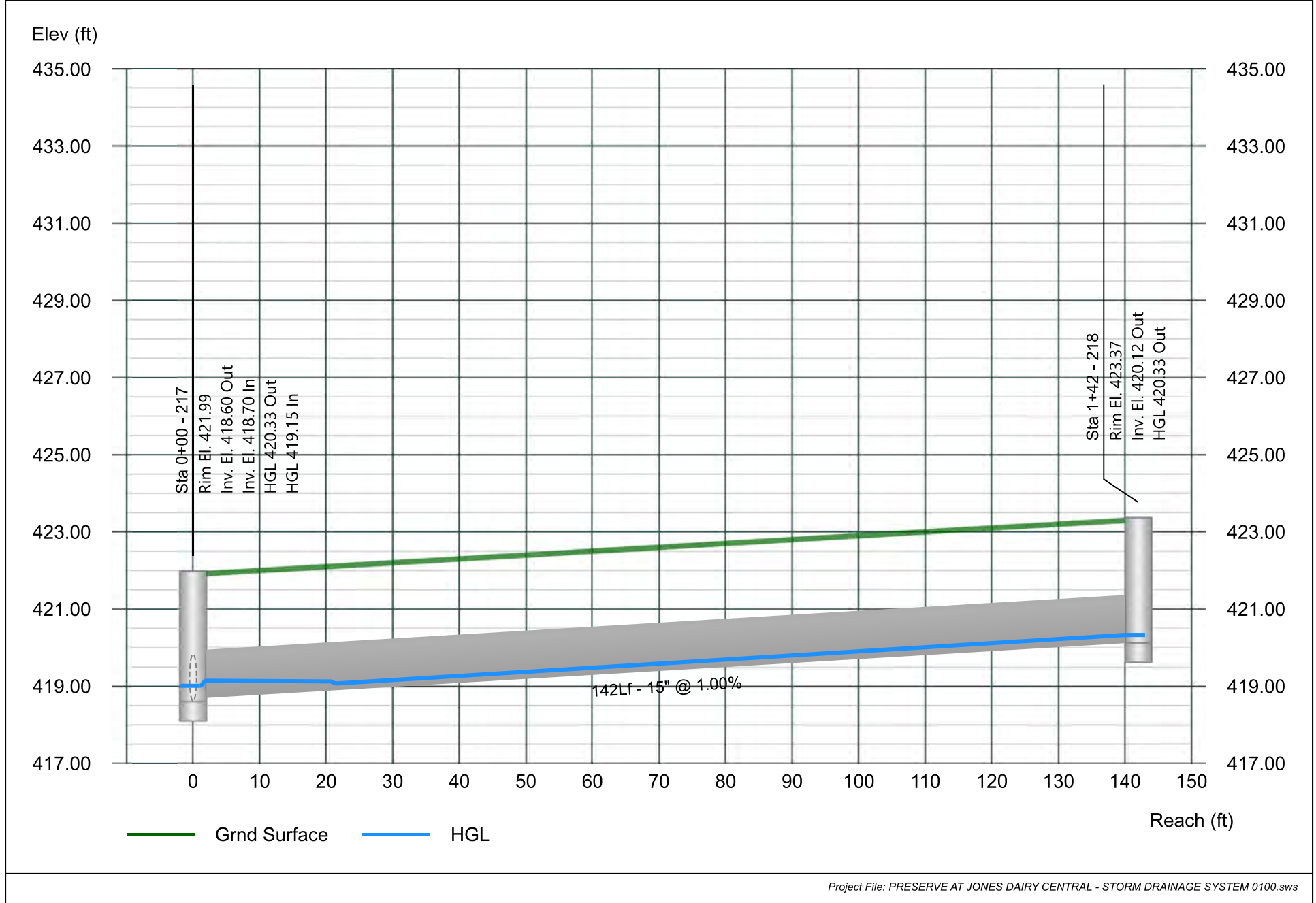


Line 119 - 218 TO 217

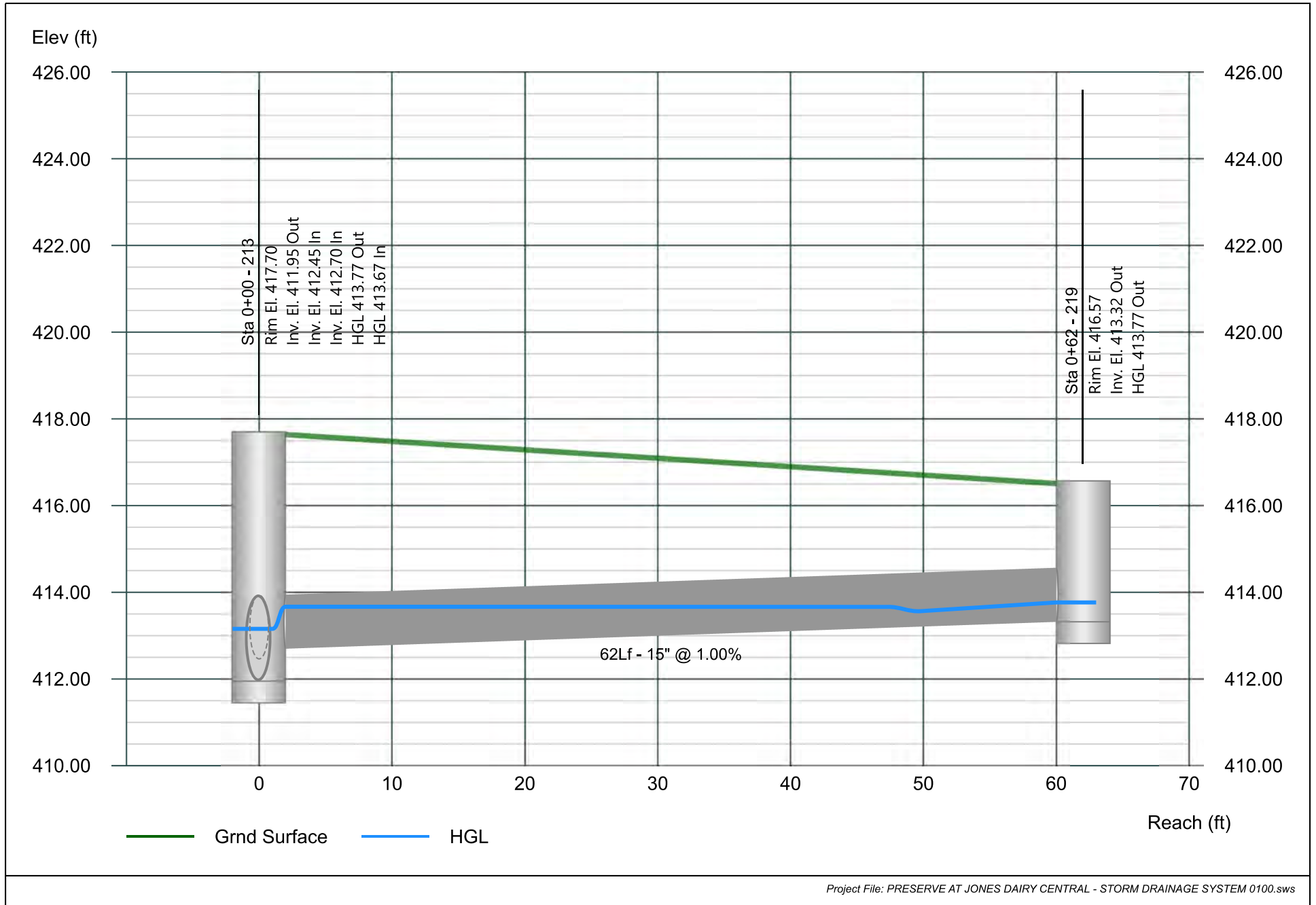
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

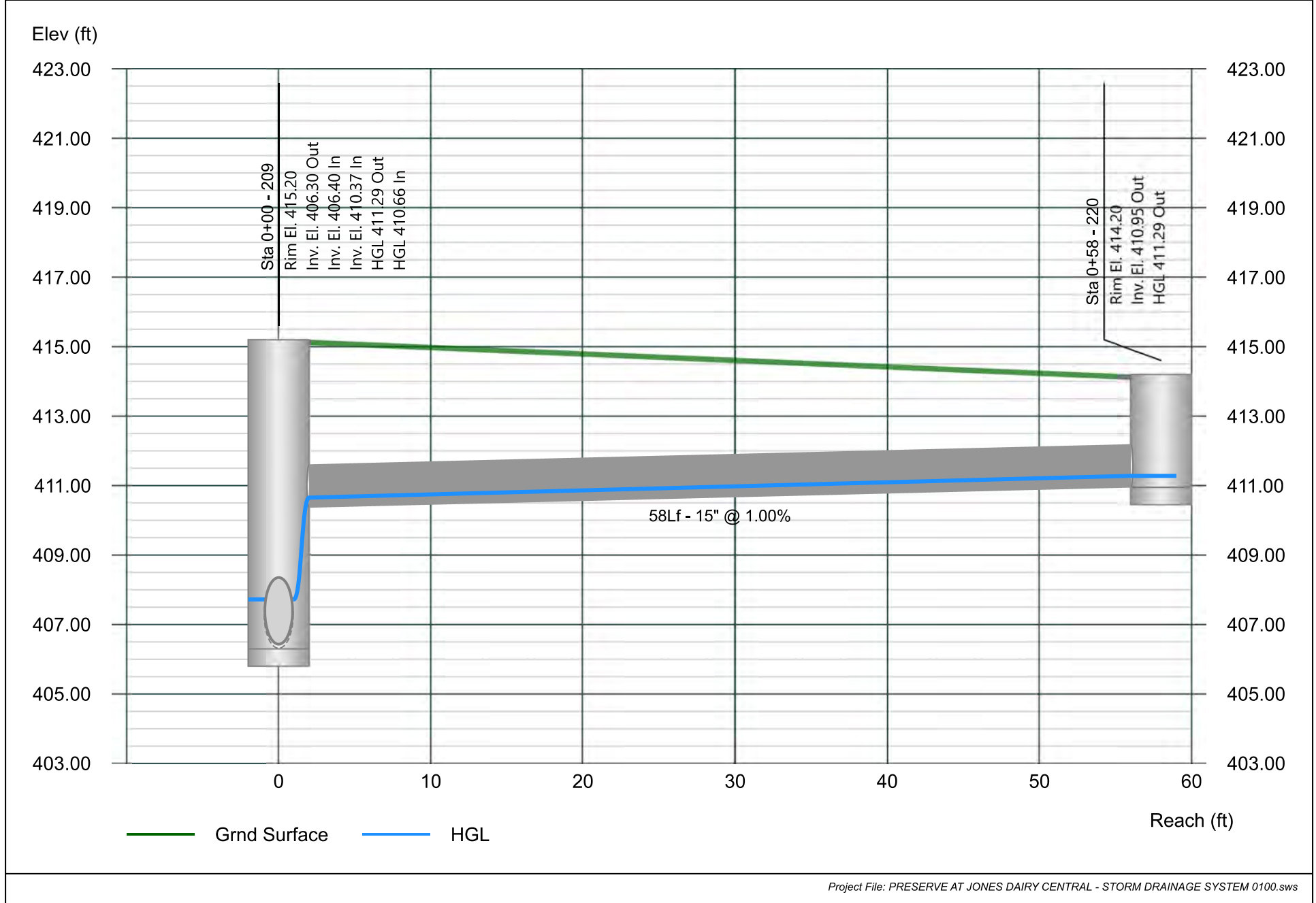
01-19-2024



Line 120 - 219 TO 213



Line 121 - 220 TO 209

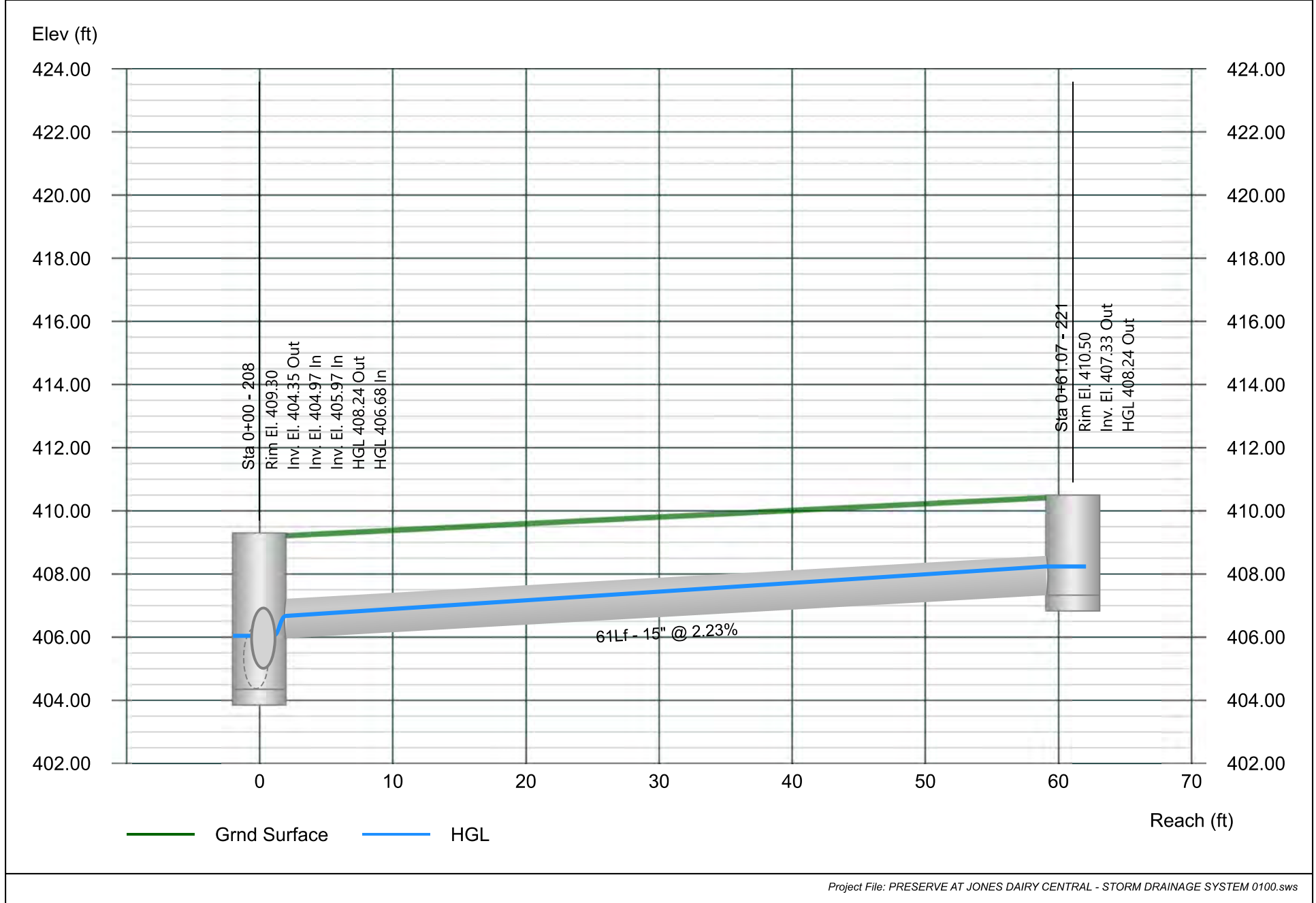


Line 122 - 221 TO 208

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

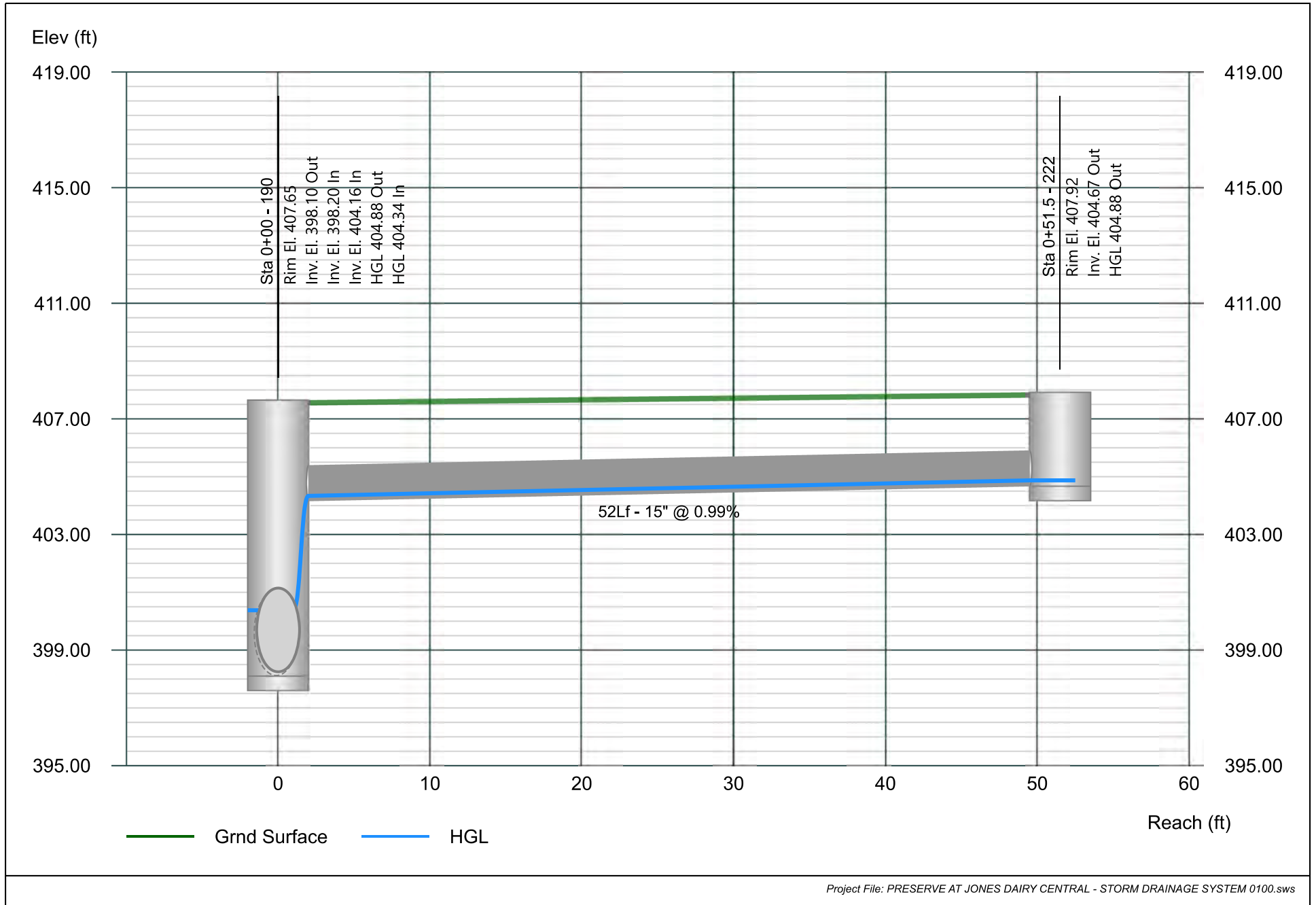


Line 123 - 222 TO 190

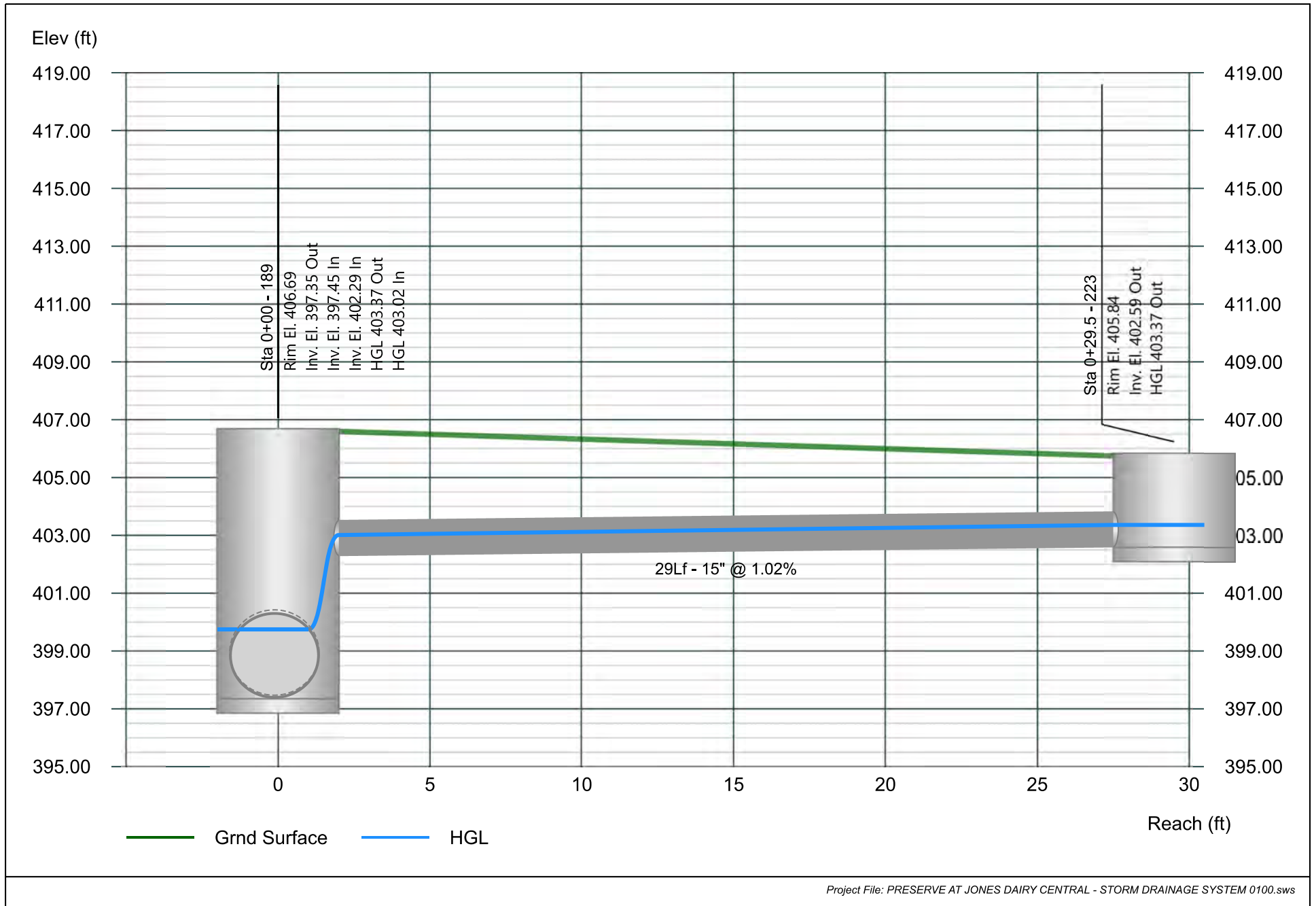
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

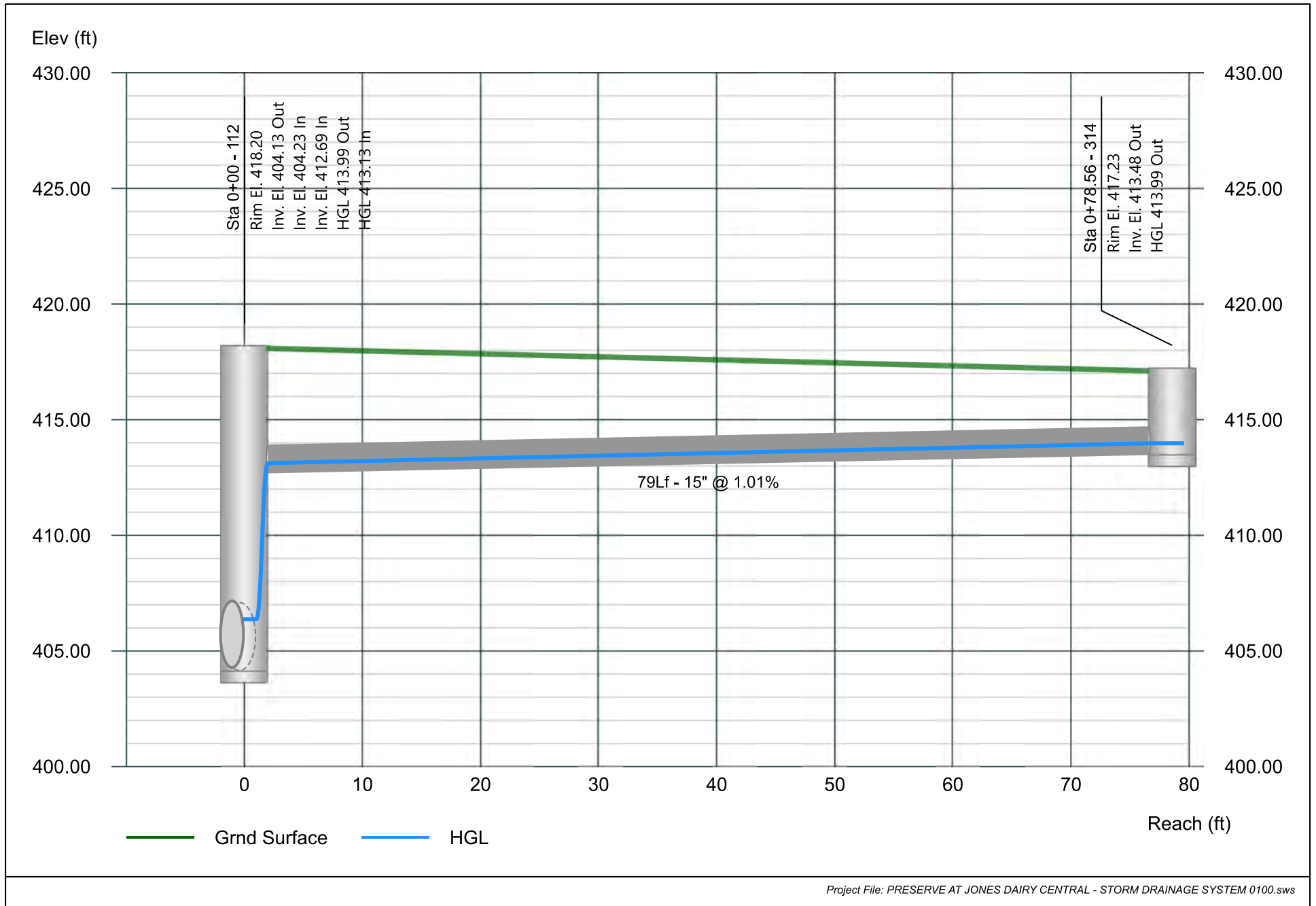
01-19-2024



Line 124 - 223 TO 189



Line 125 - 314 TO 112

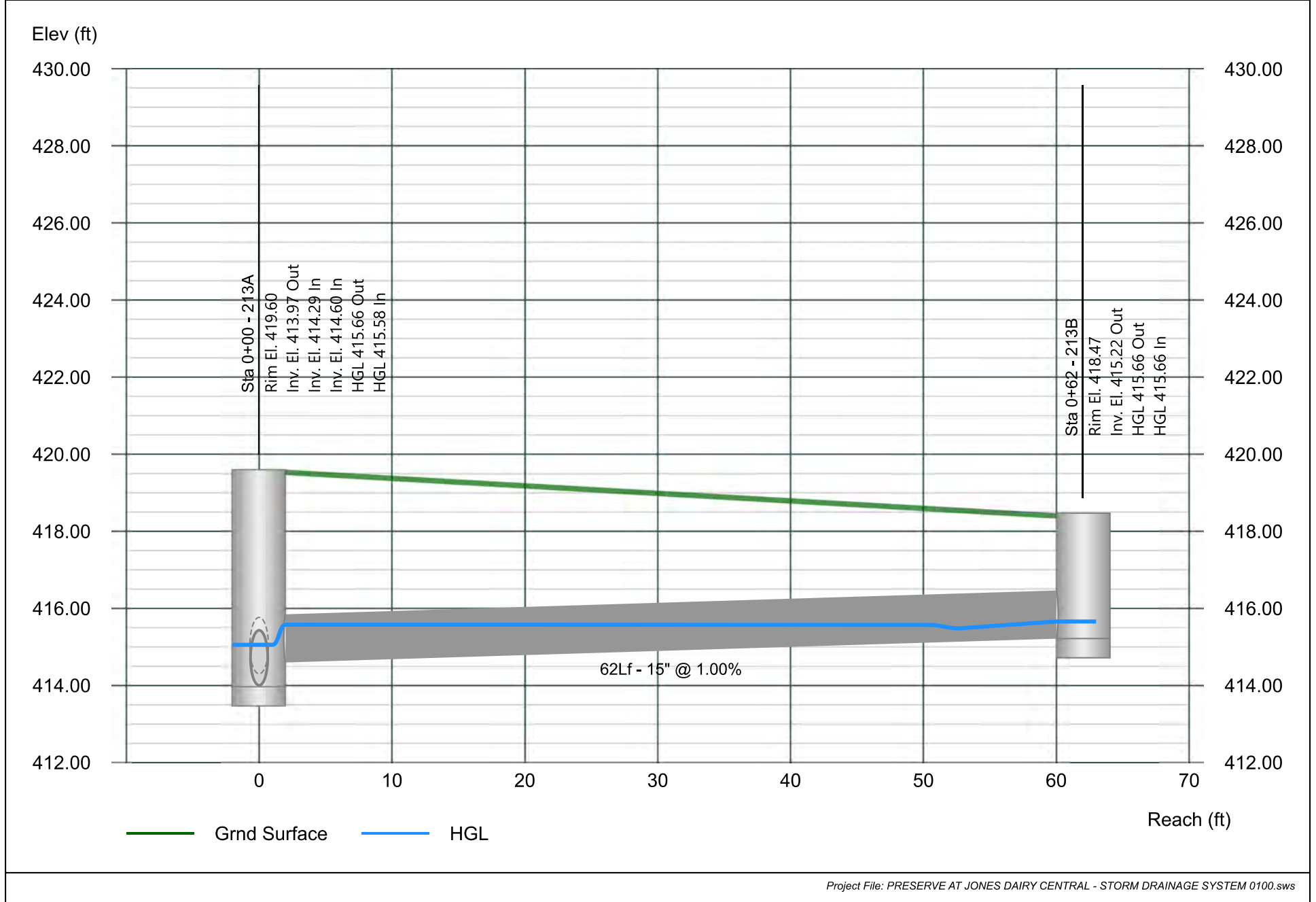


Line 126 - 213B TO 213A

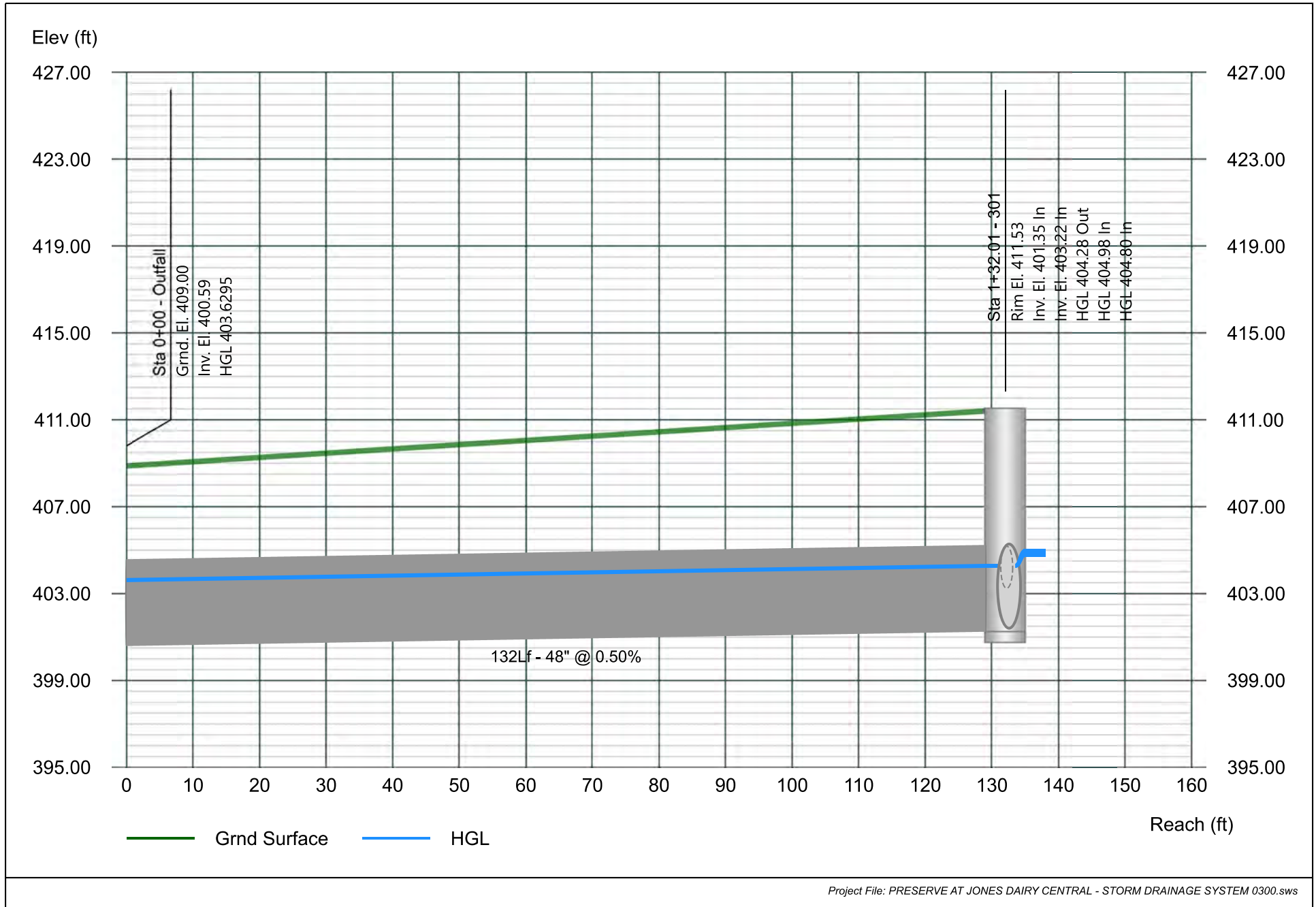
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

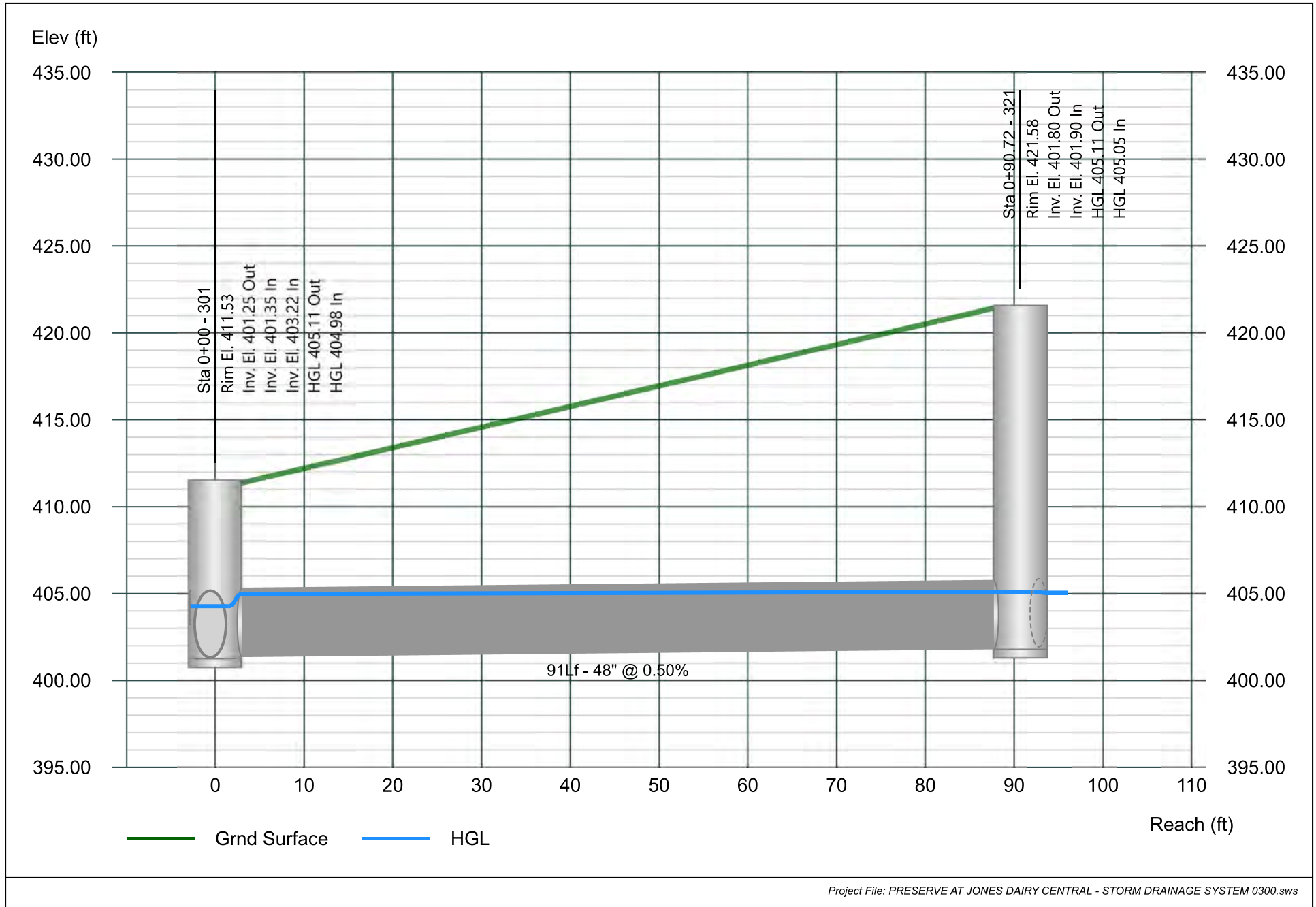
01-19-2024



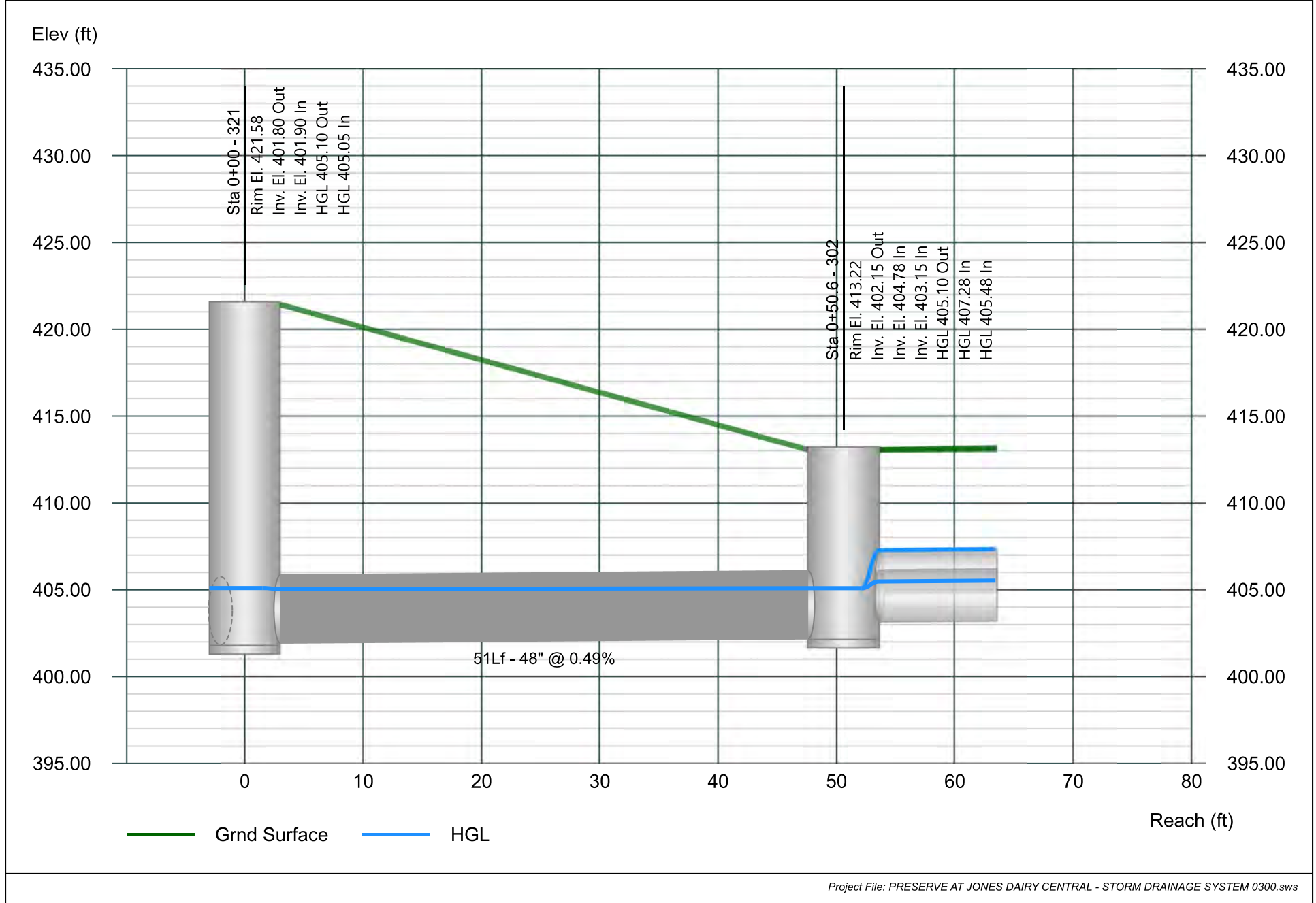
Line 1 - 301 TO 300



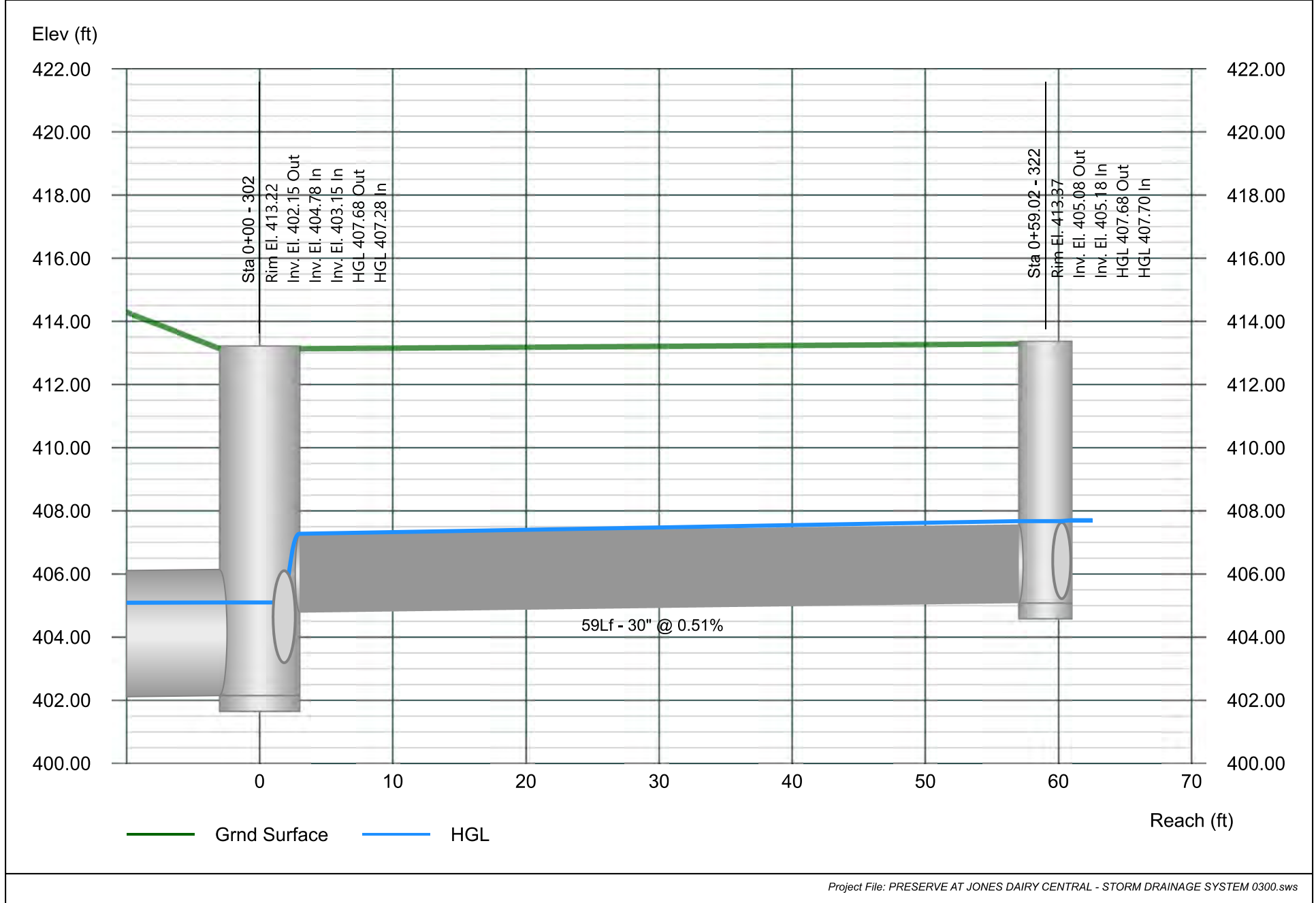
Line 2 - 321 TO 302



Line 3 - 302 TO 301



Line 4 - 322 TO 302

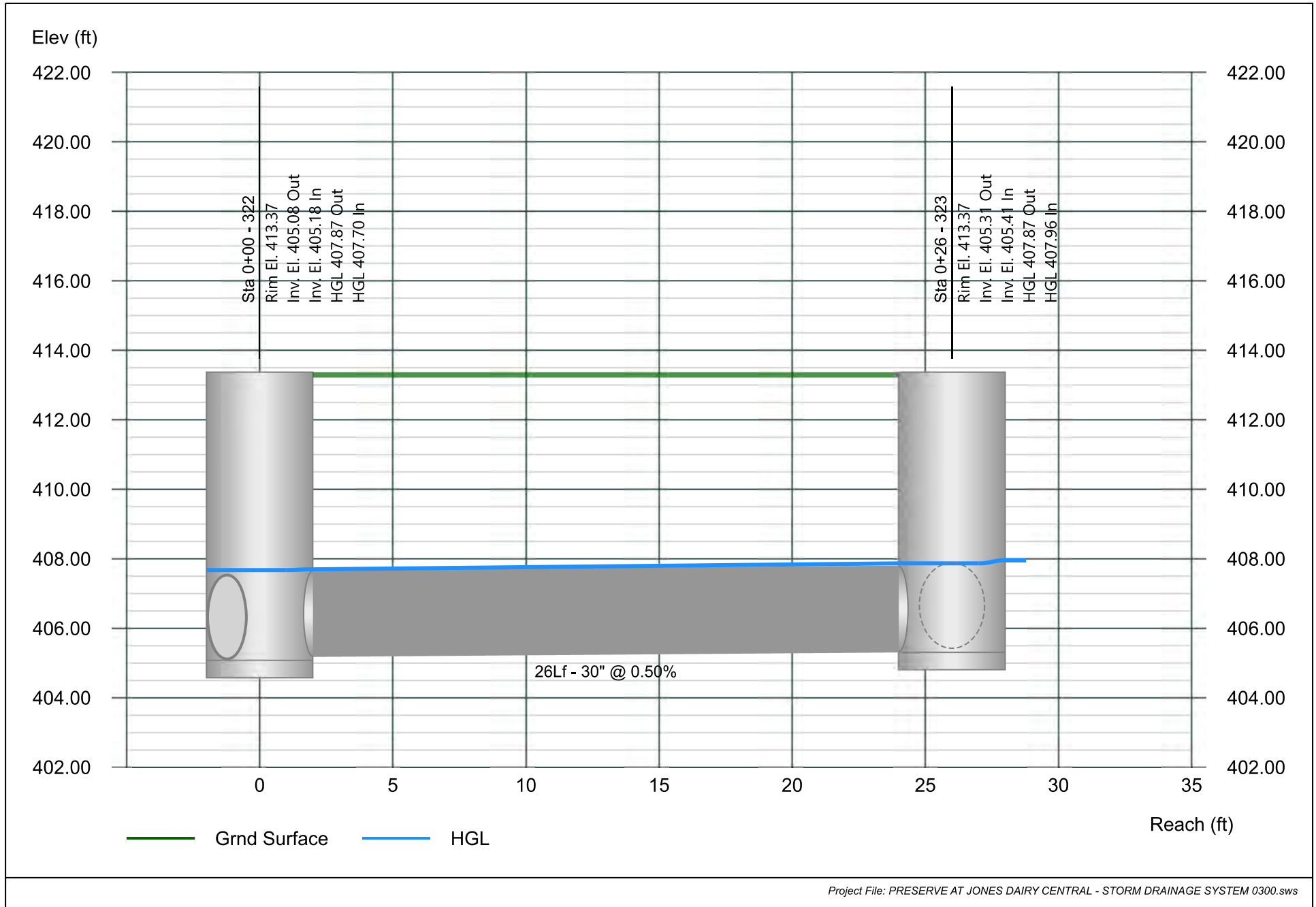


Line 5 - 323 TO 322

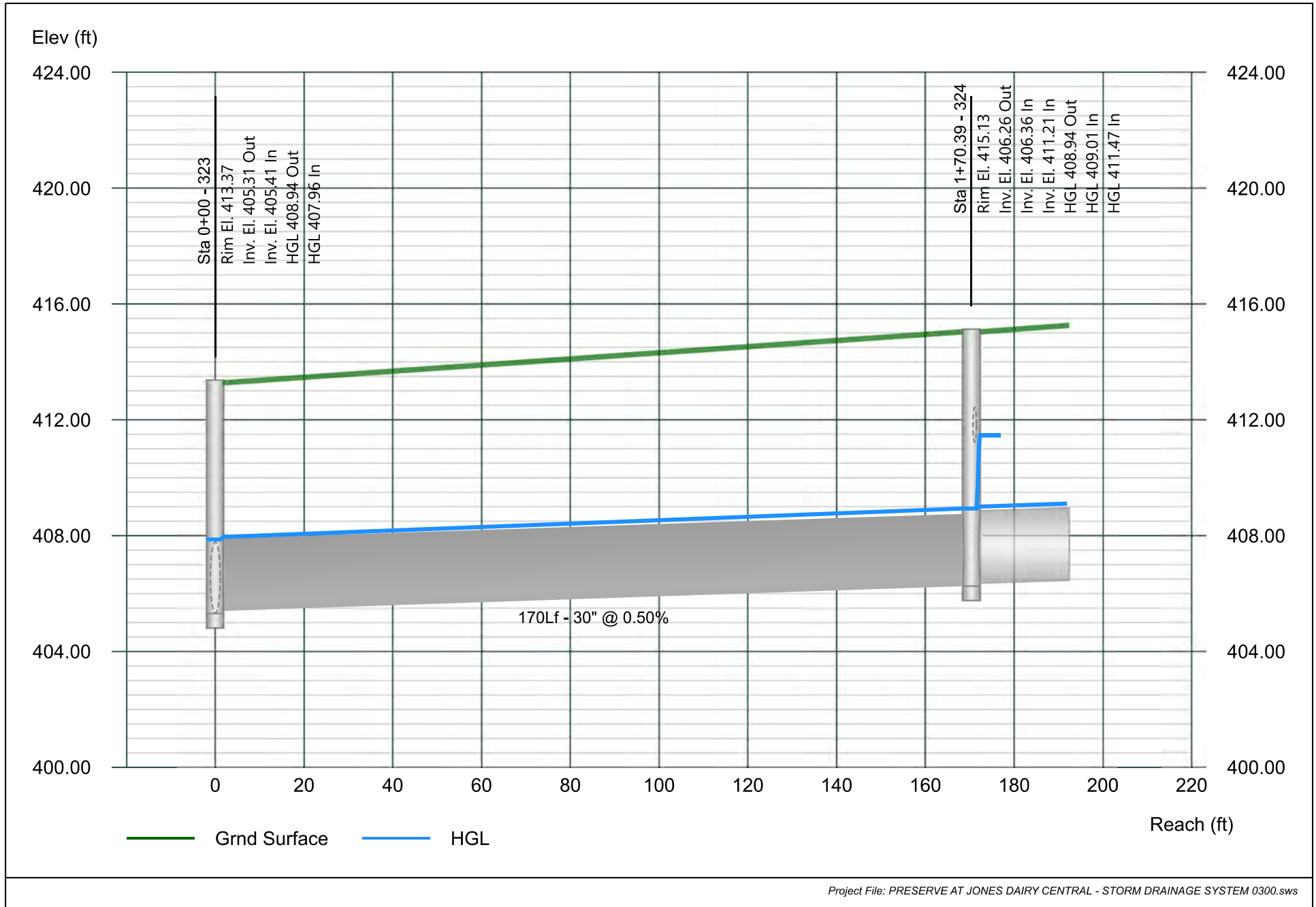
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

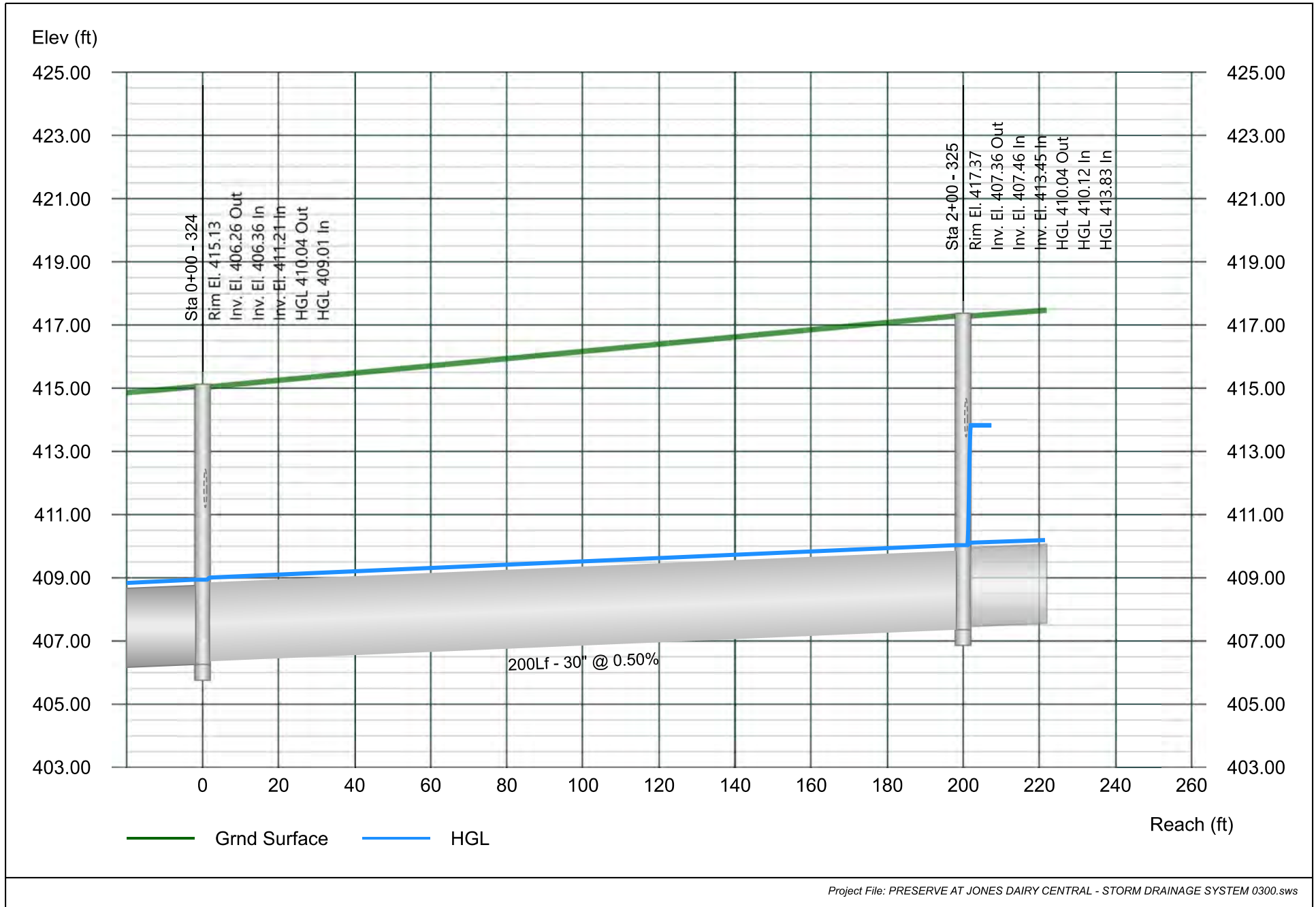
03-01-2024



Line 6 - 324 TO 323



Line 7 - 325 TO 324

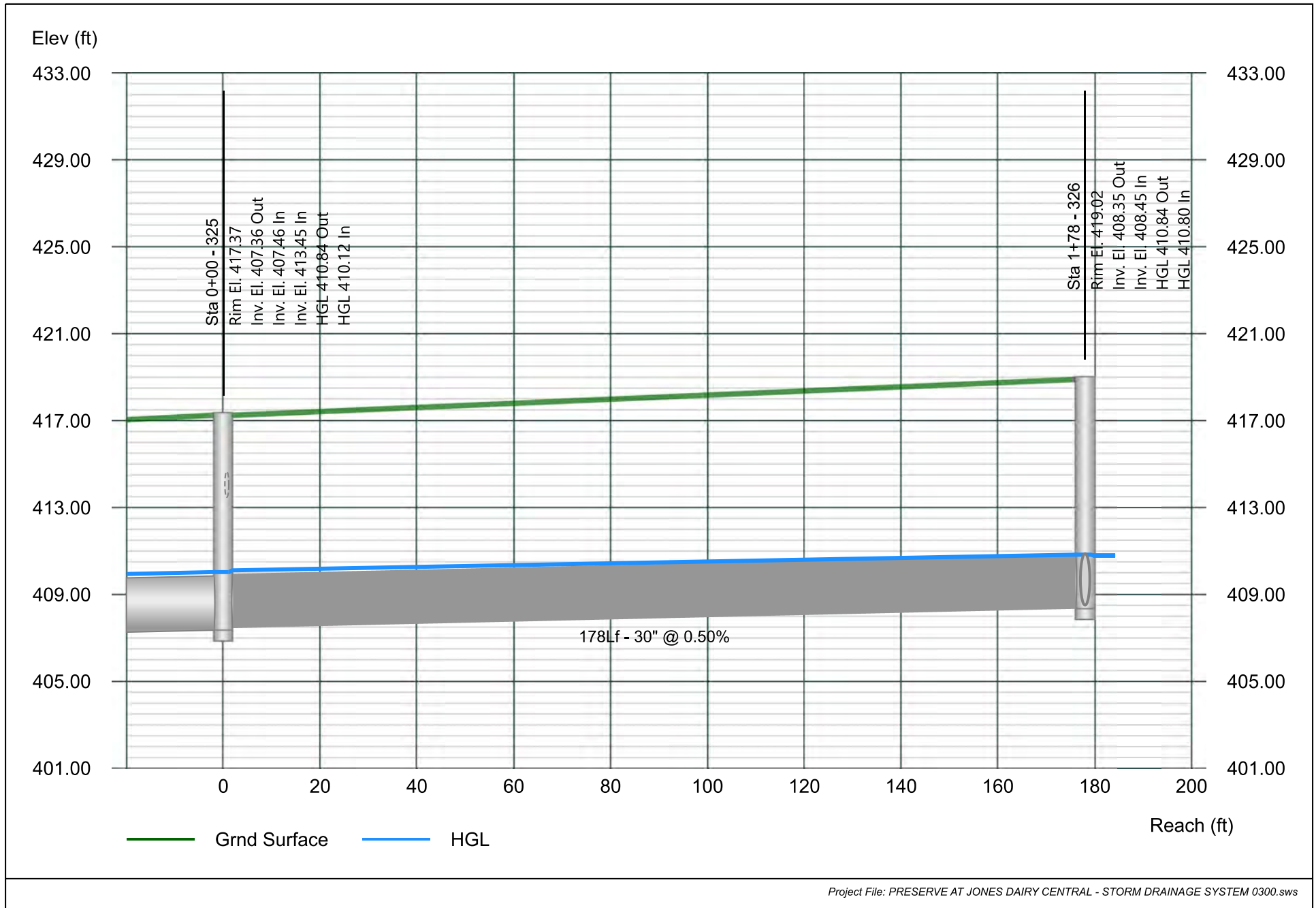


Line 8 - 326 TO 325

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

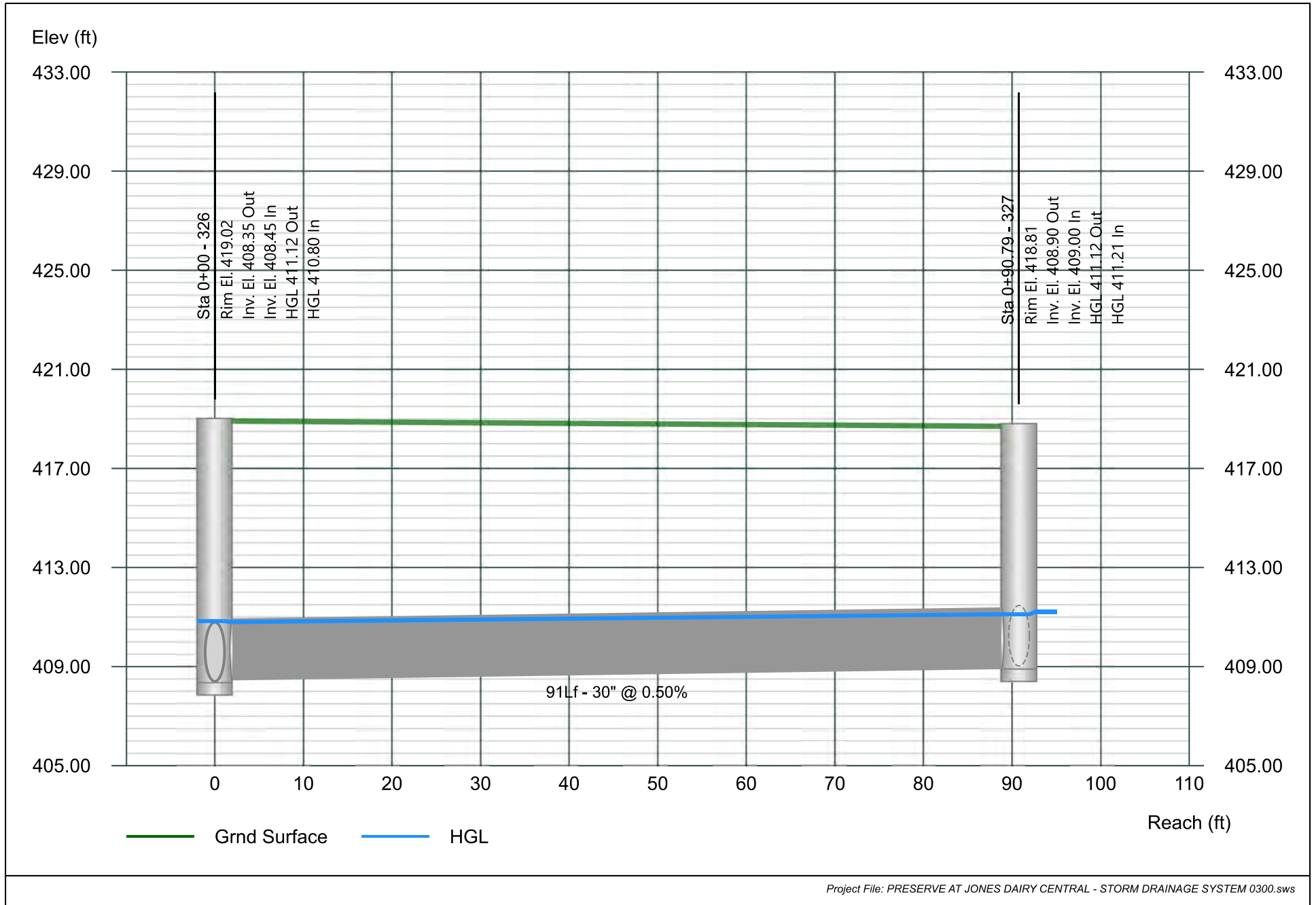


Line 9 - 327 TO 326

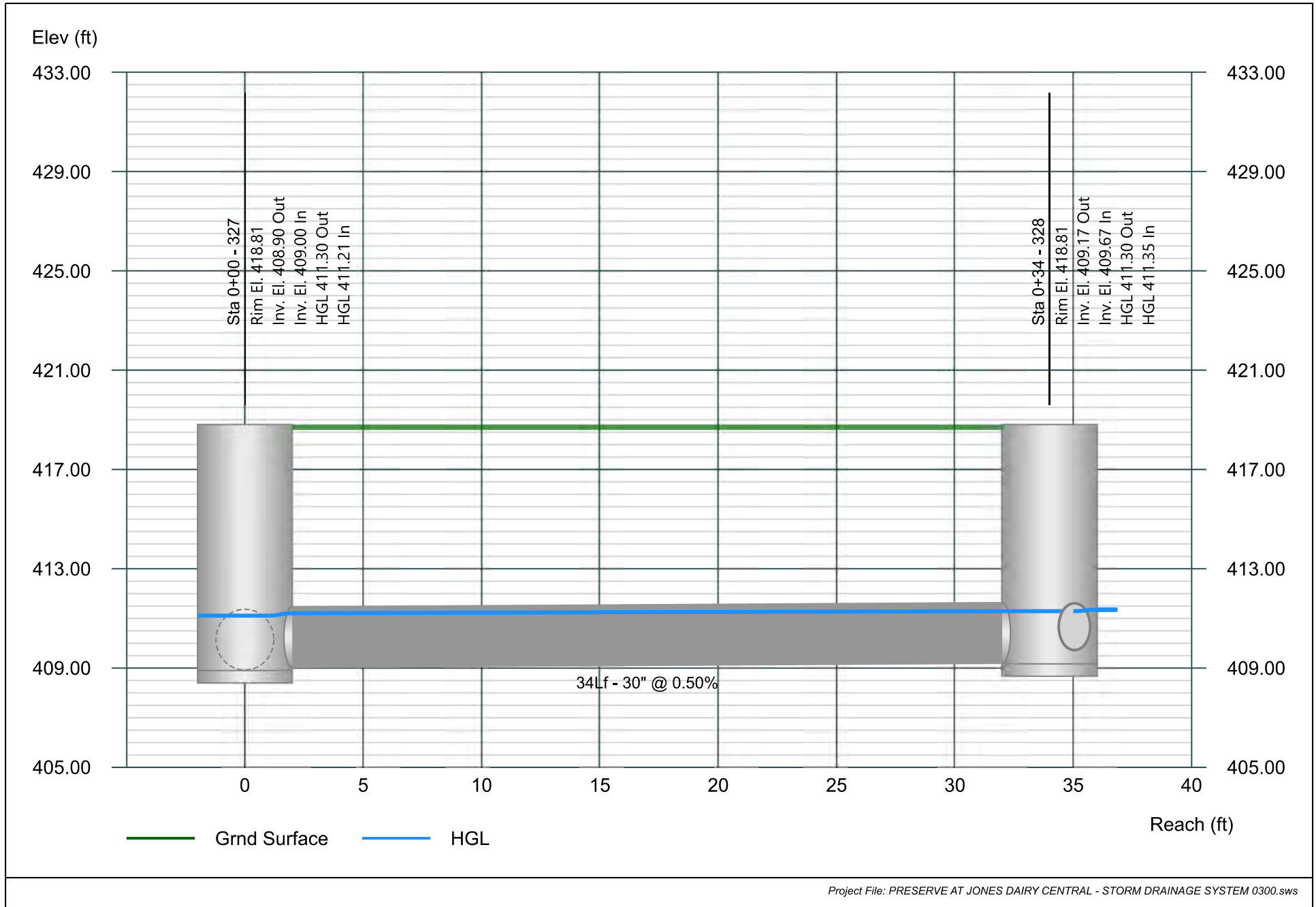
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

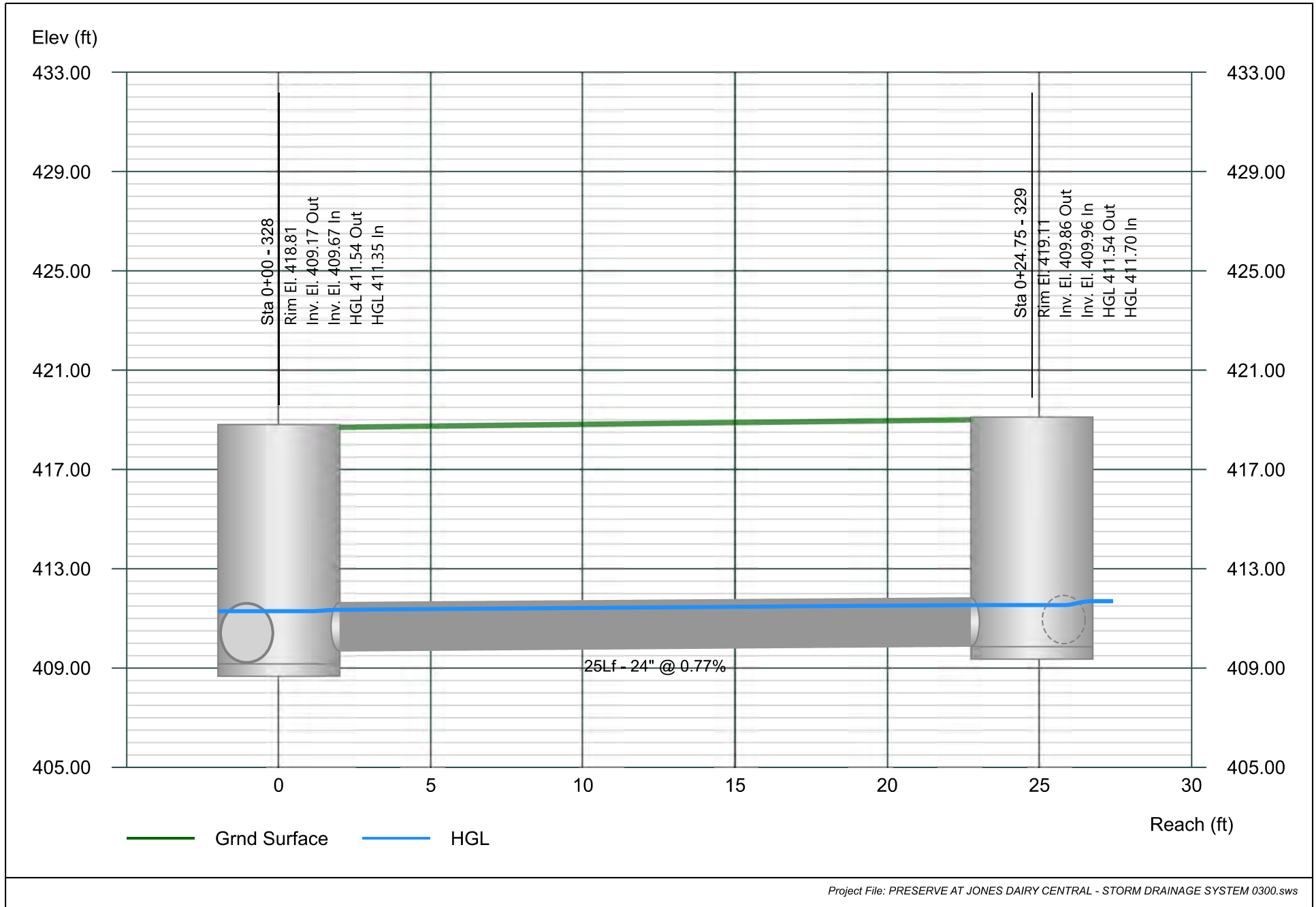
03-01-2024



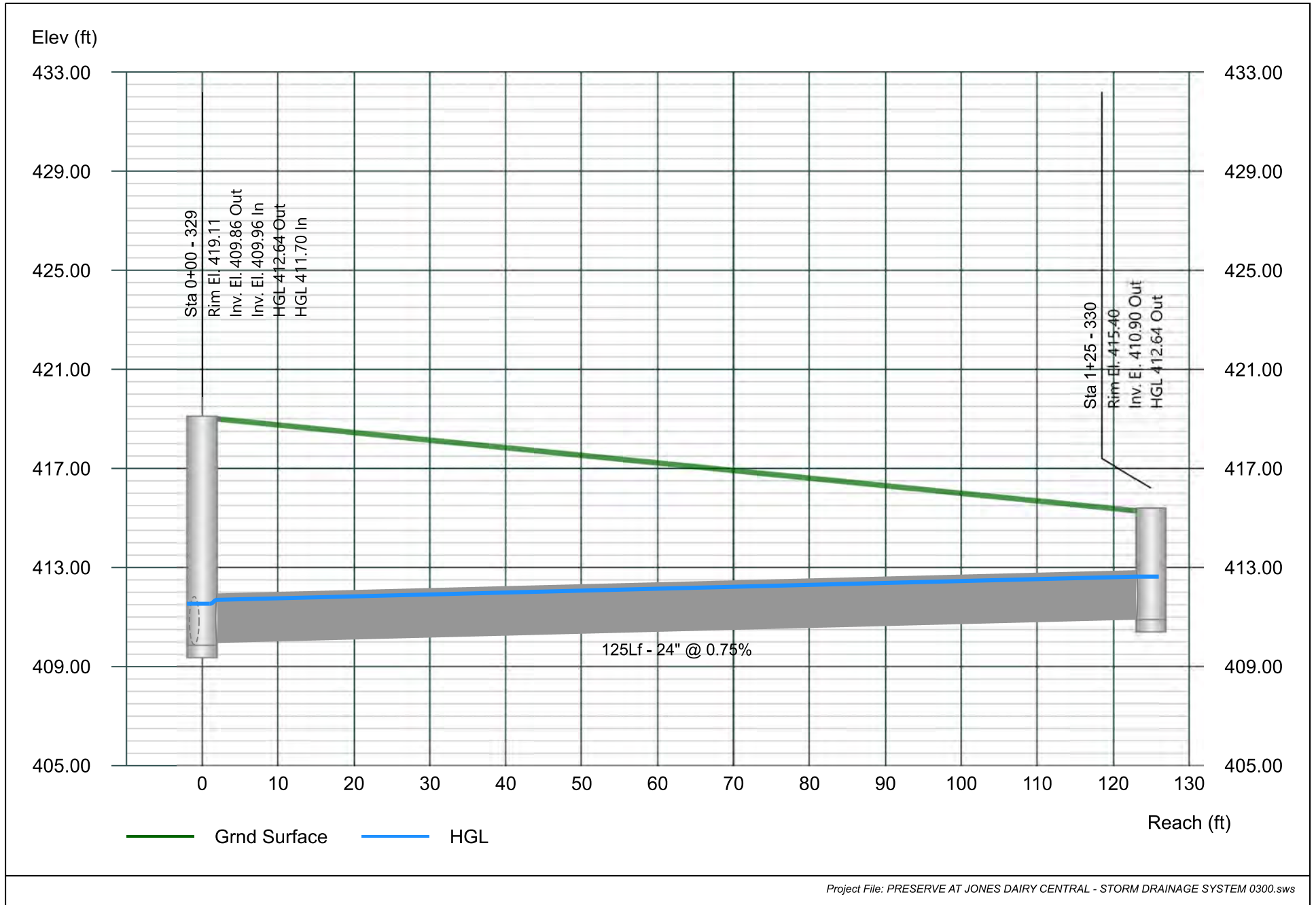
Line 10 - 328 TO 327



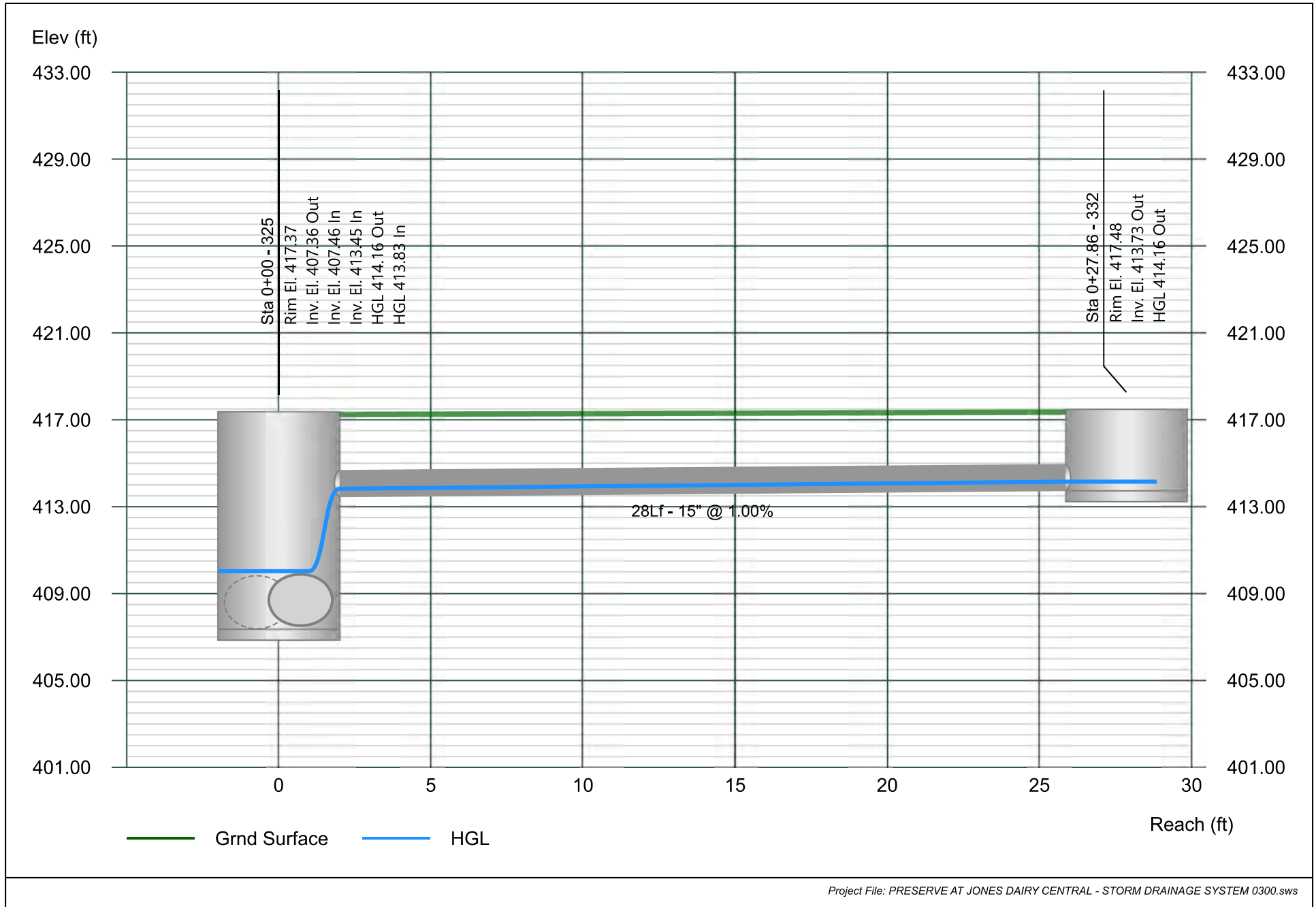
Line 11 - 329 TO 328



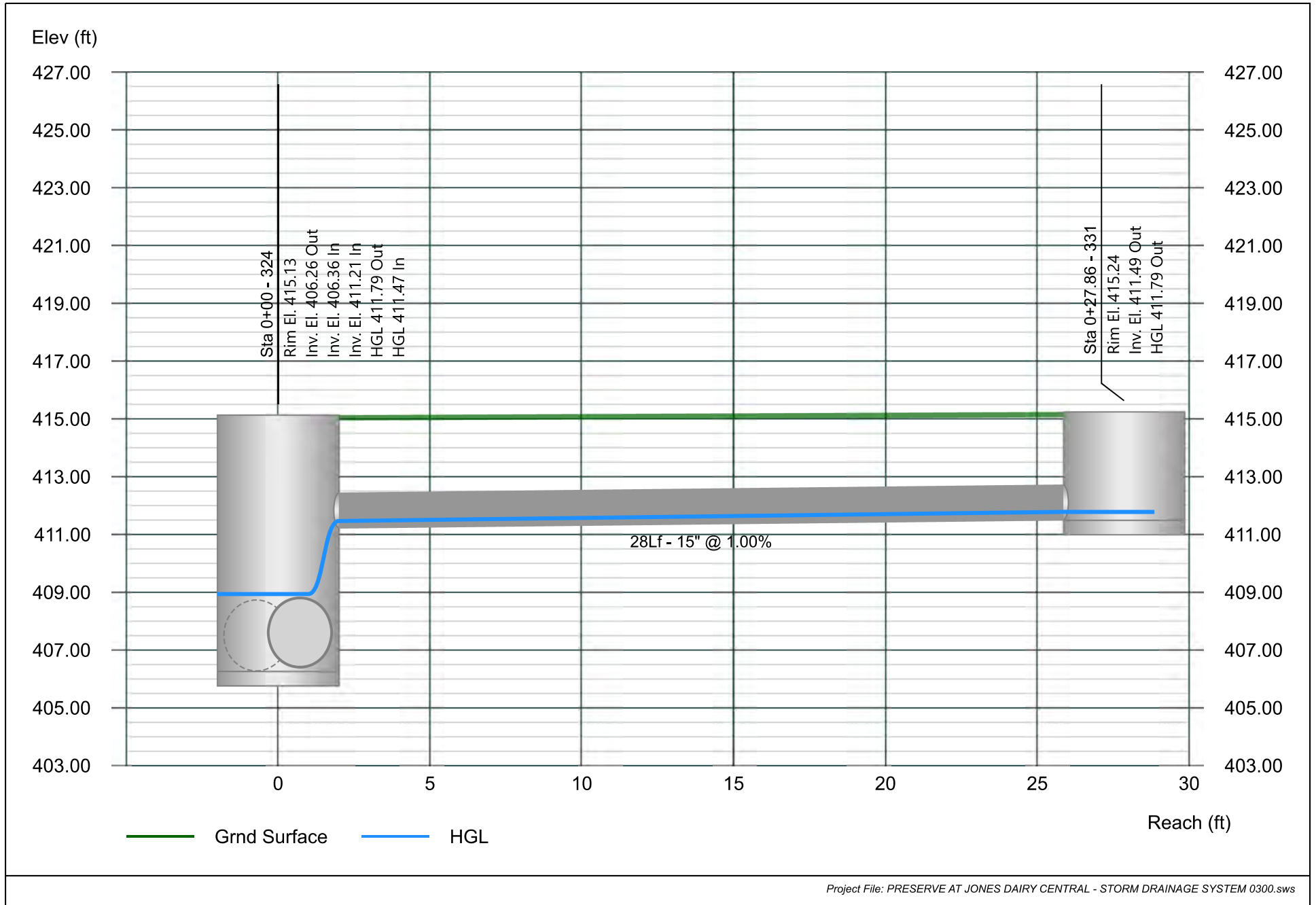
Line 12 - 330 TO 329



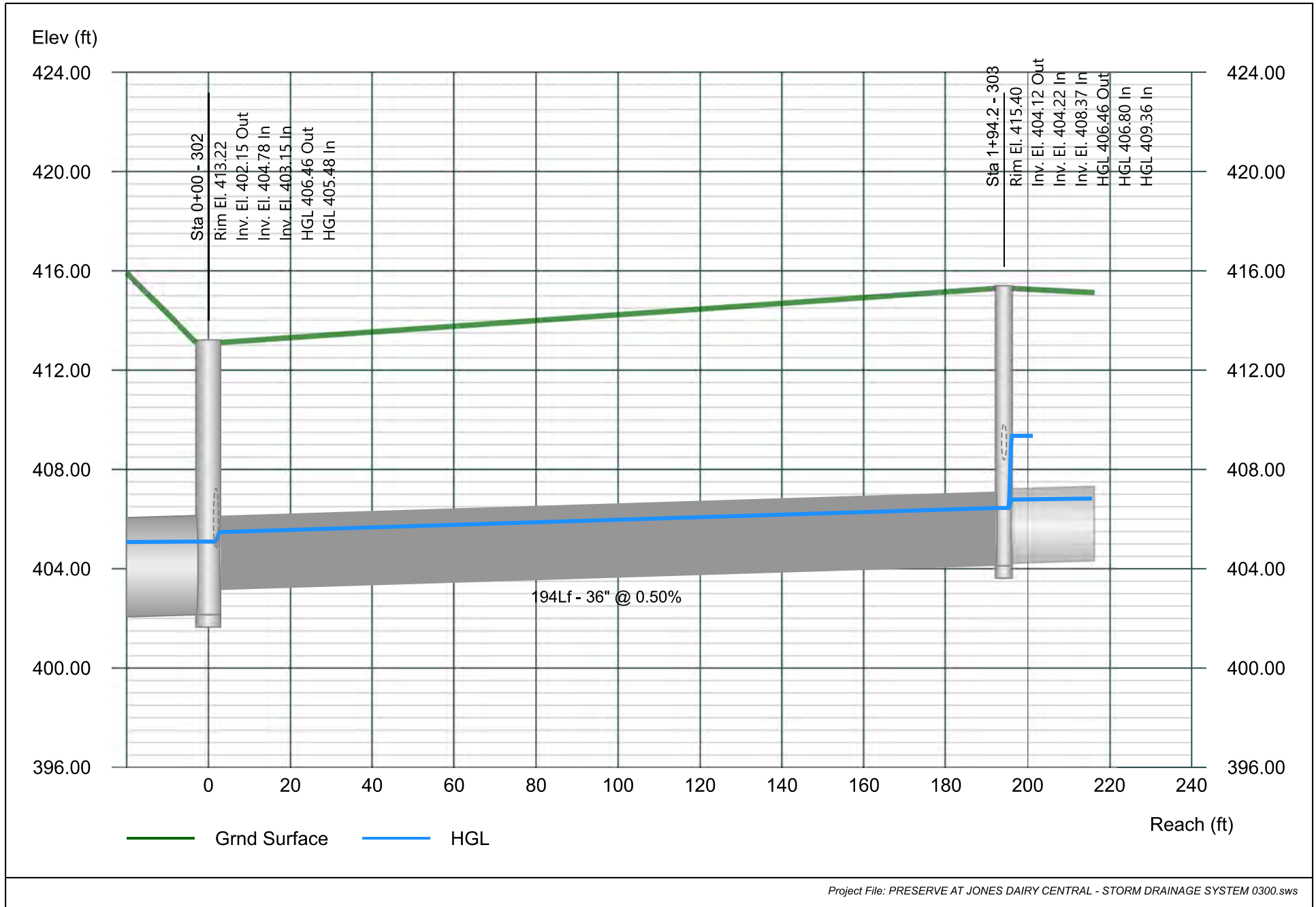
Line 13 - 332 TO 325



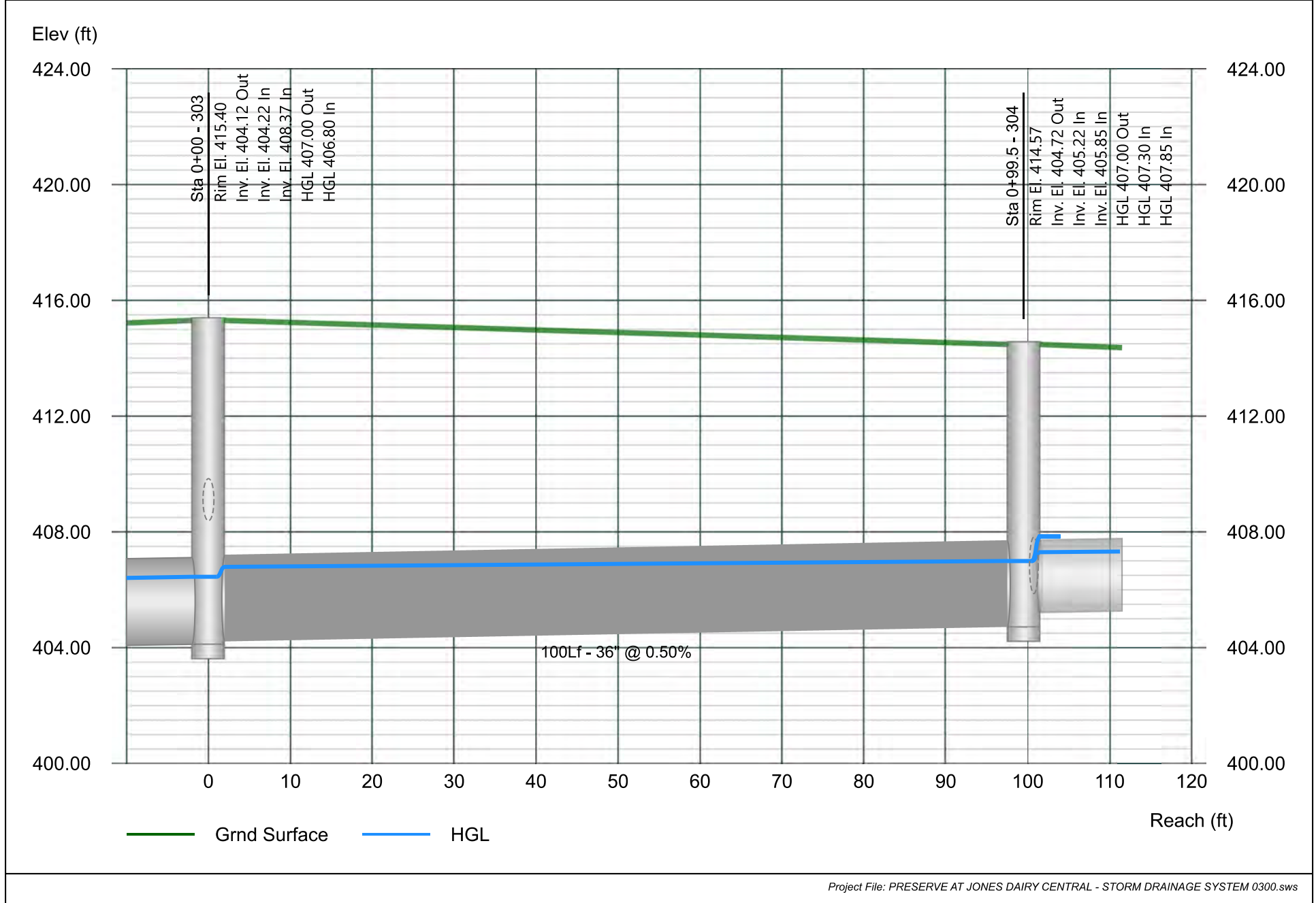
Line 14 - 331 TO 324



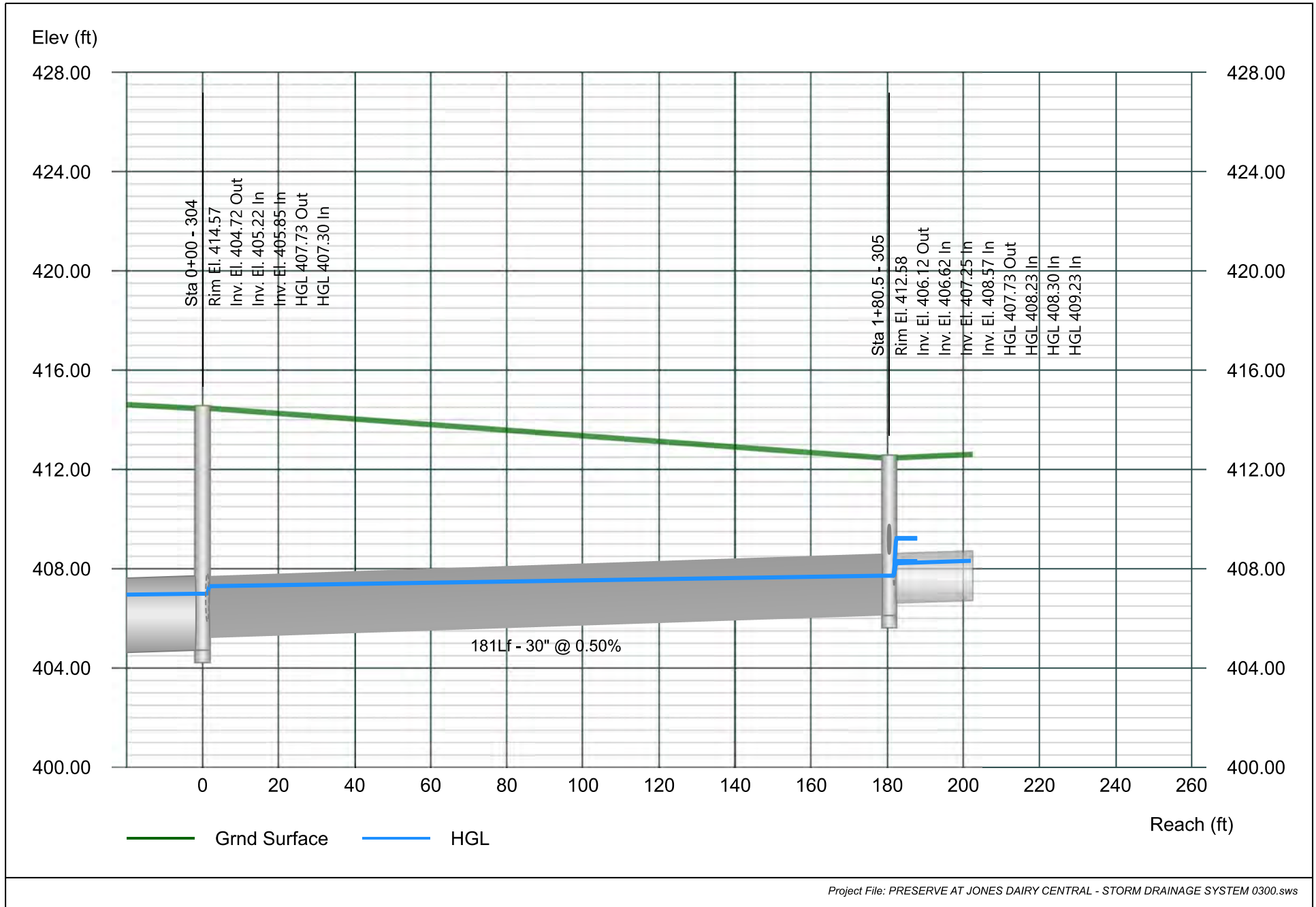
Line 15 - 303 TO 302



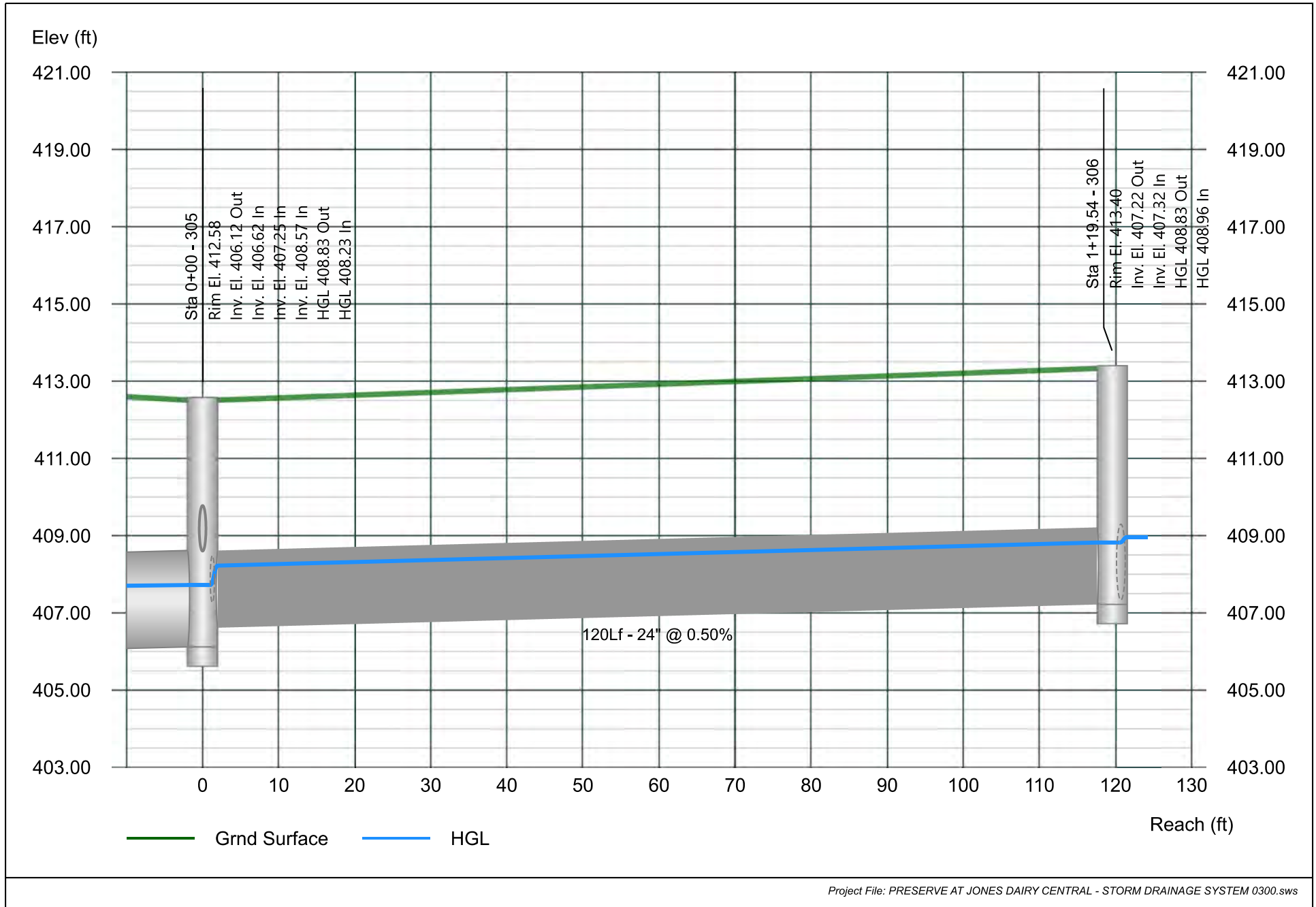
Line 16 - 304 TO 303



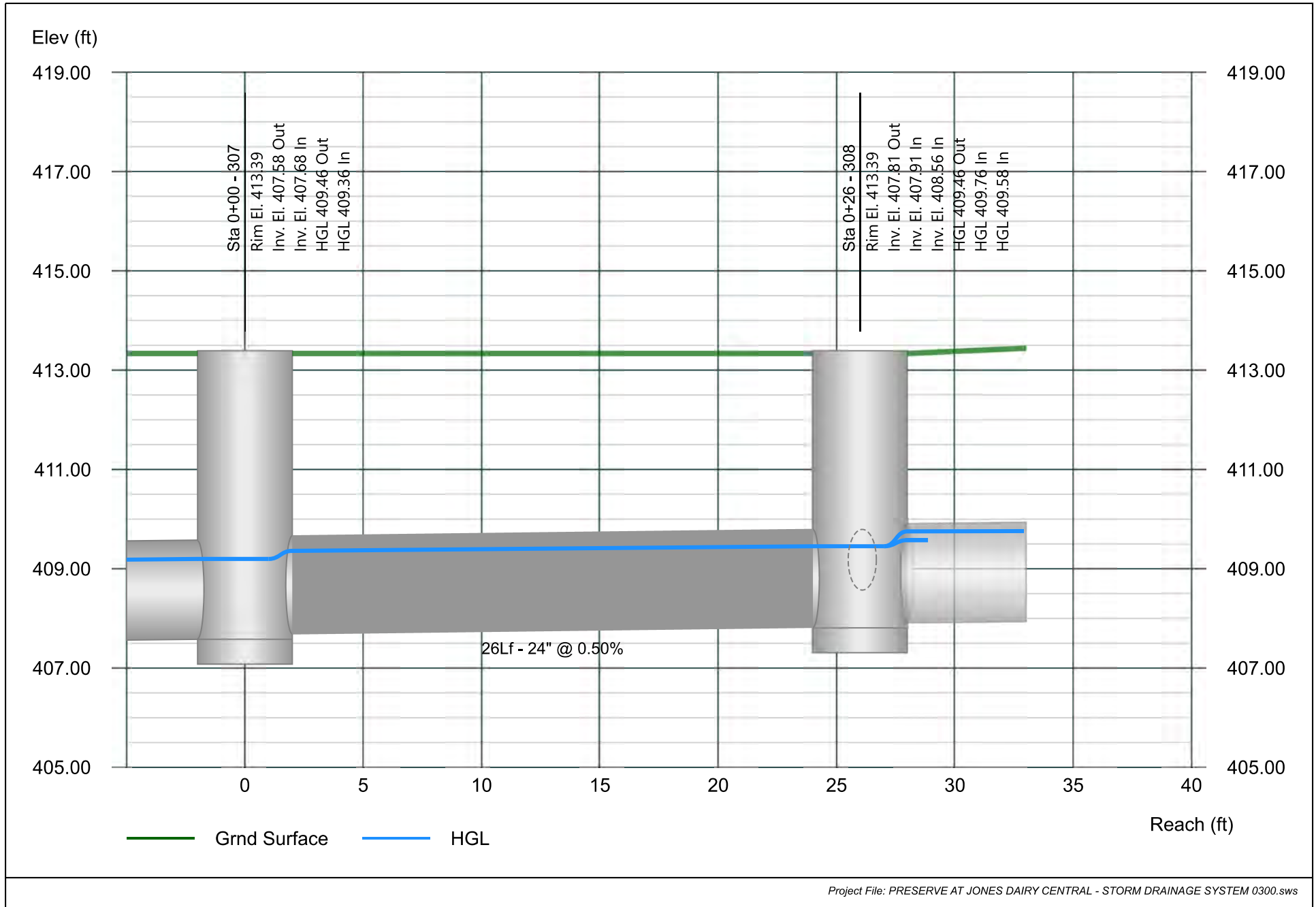
Line 17 - 305 TO 304



Line 18 - 306 TO 305



Line 20 - 308 TO 307

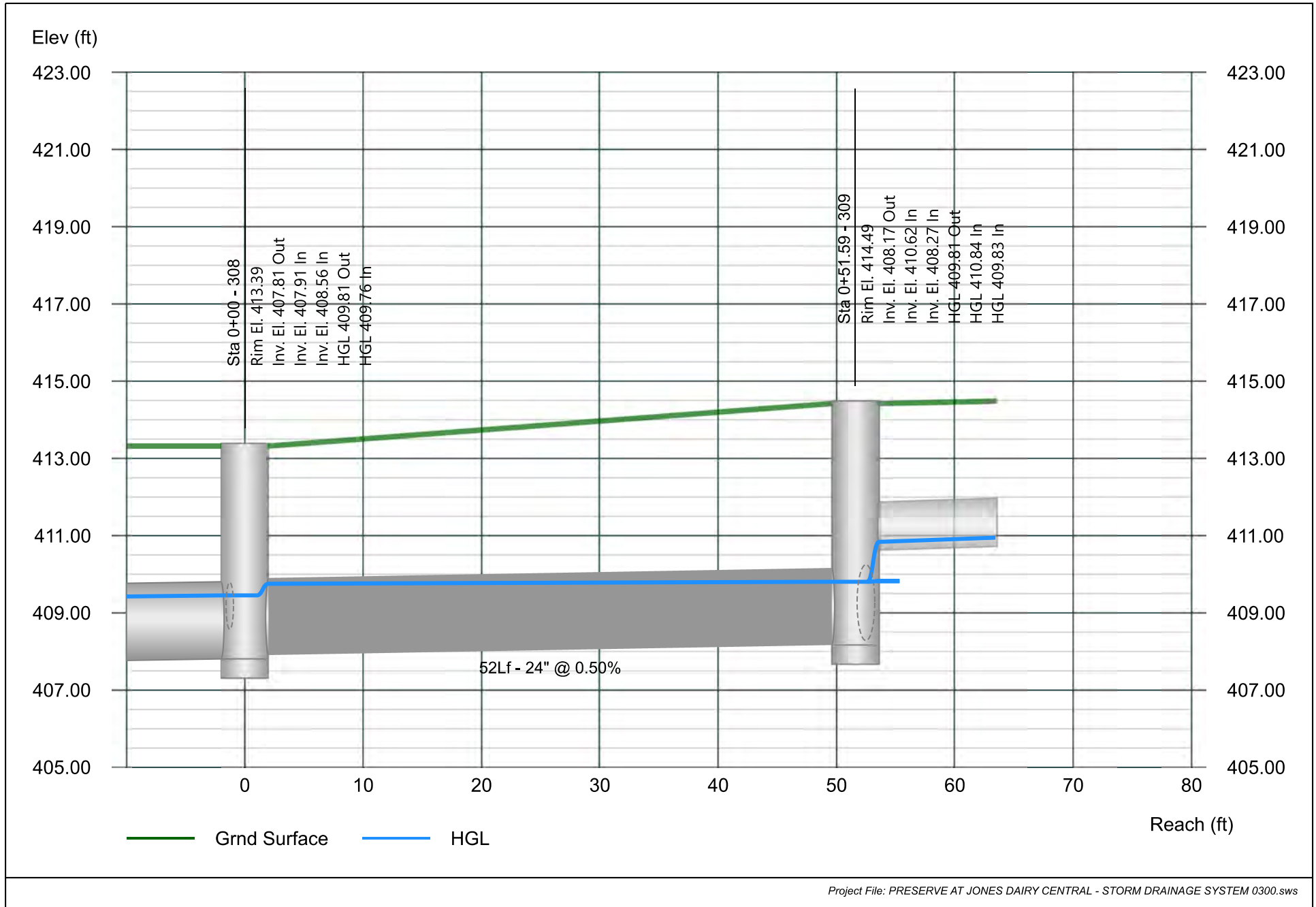


Line 21 - 309 TO 308

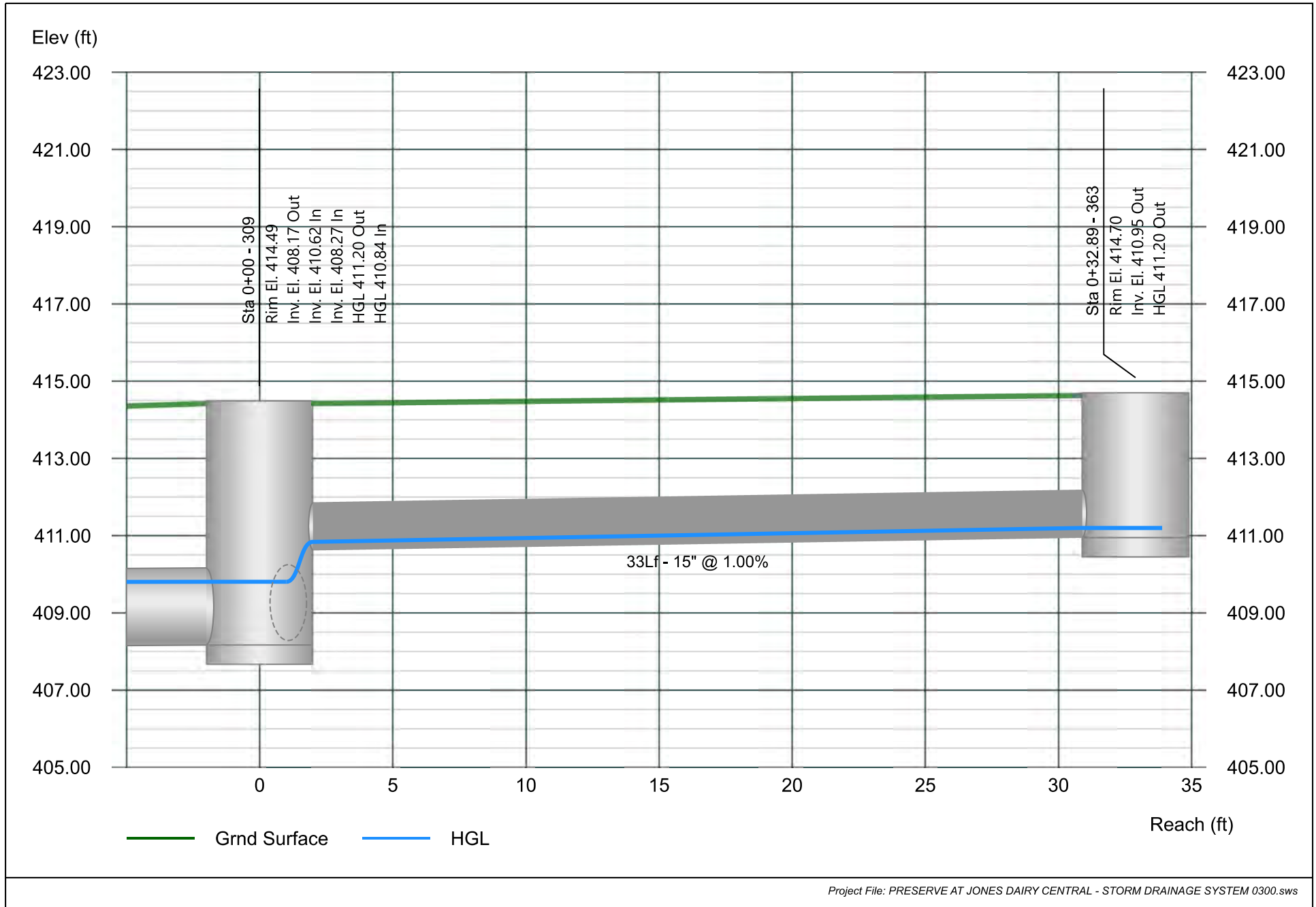
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

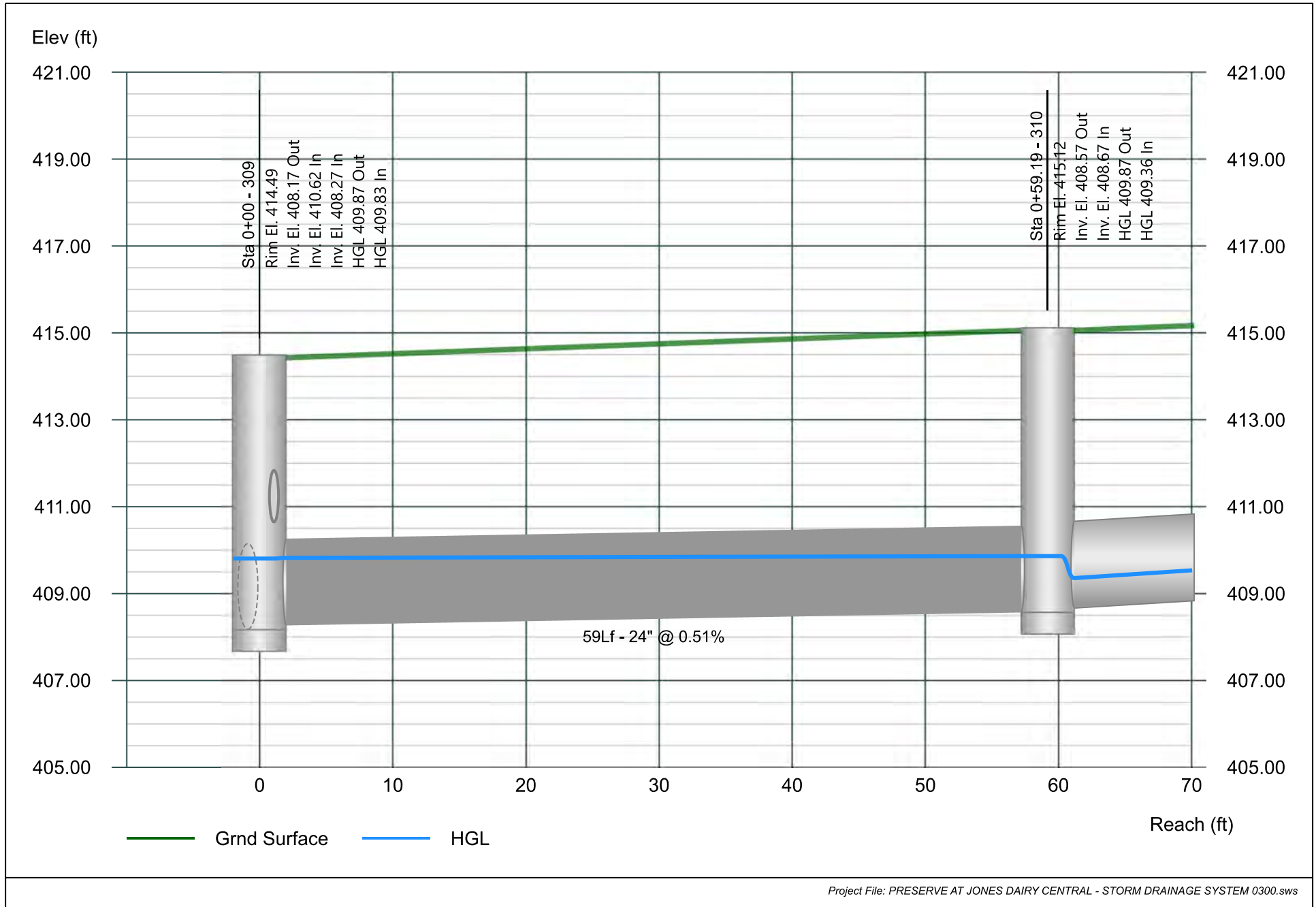
03-01-2024



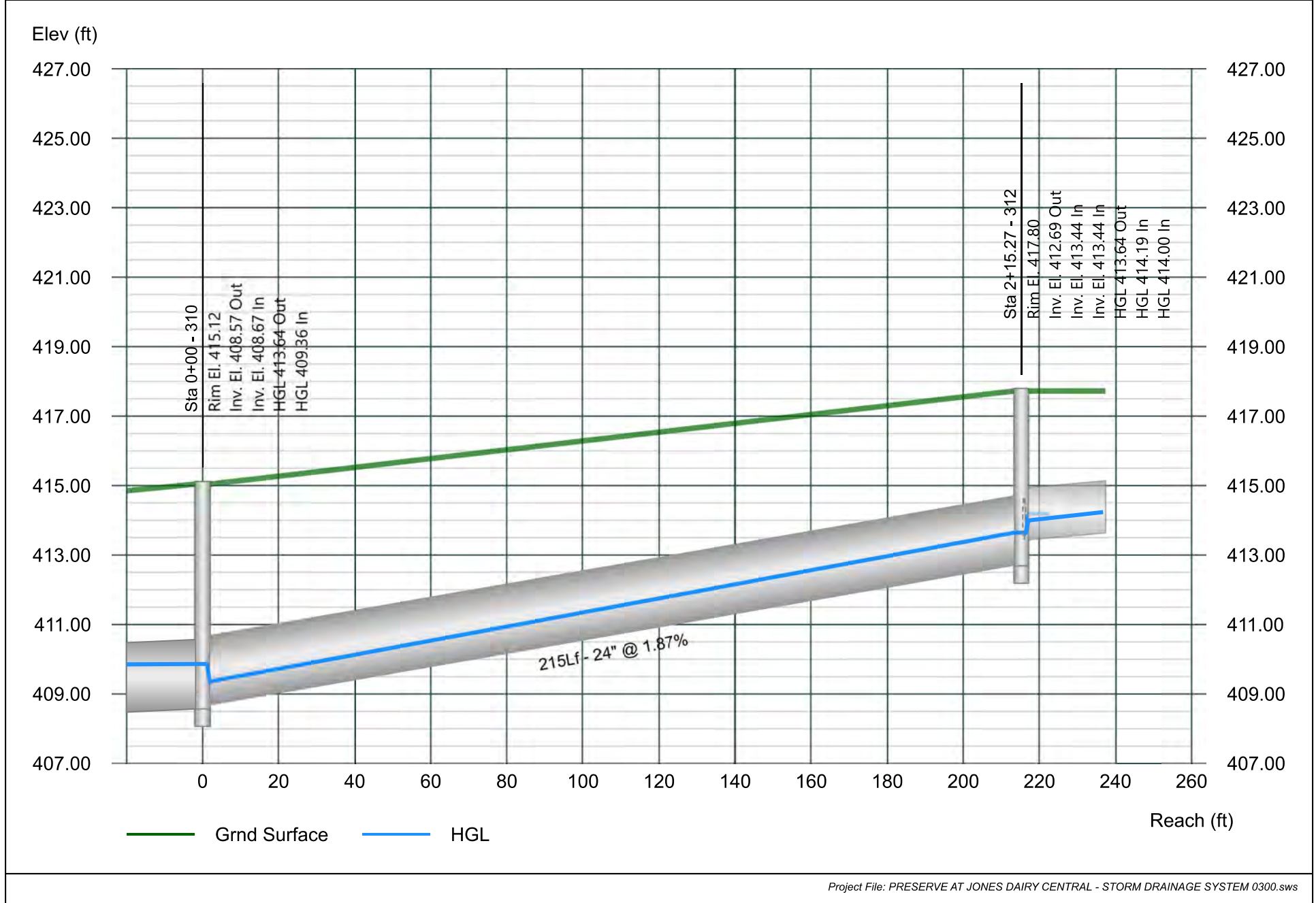
Line 22 - 363 TO 309



Line 23 - 310 TO 309



Line 24 - 312 TO 310

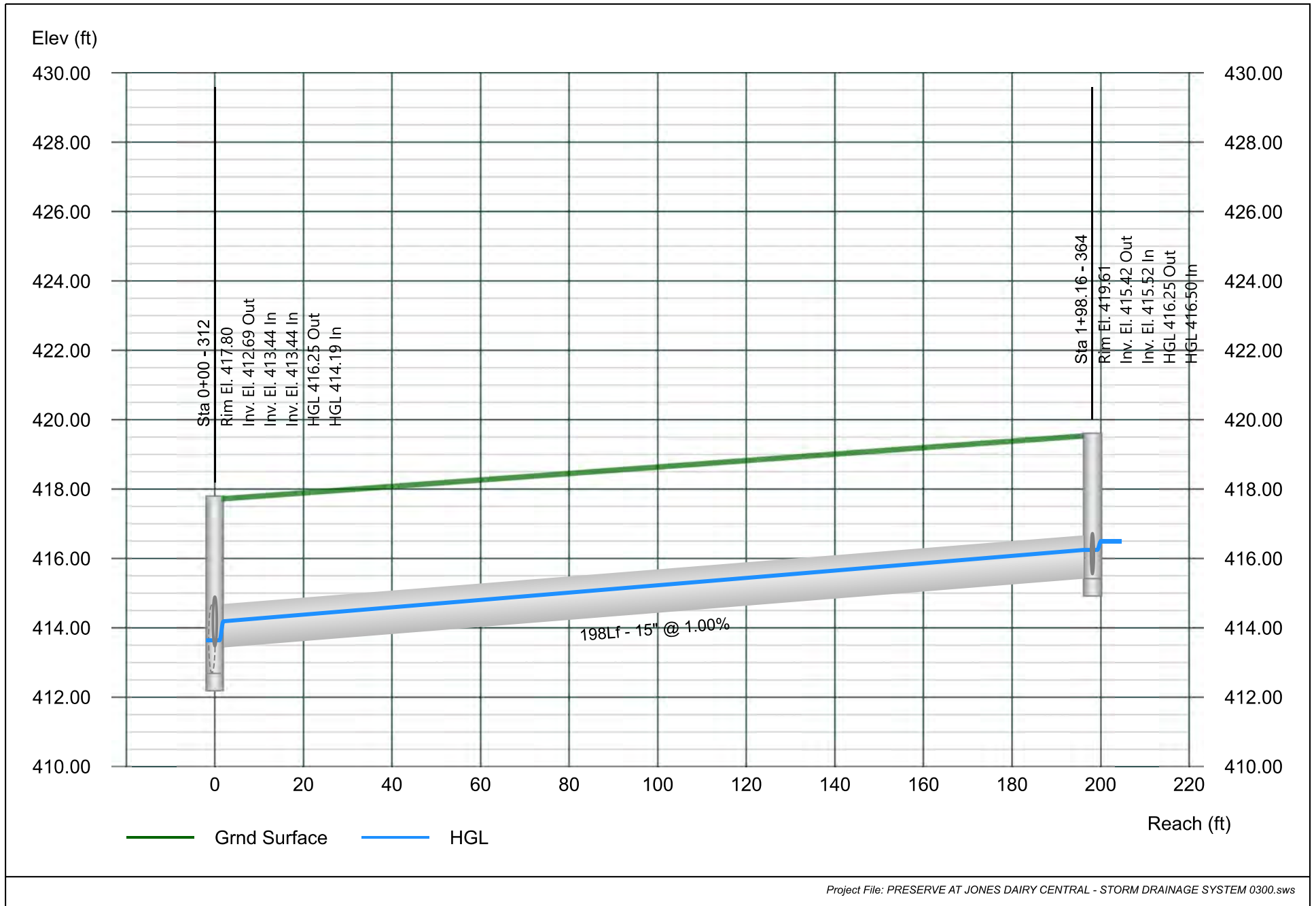


Line 25 - 364 TO 312

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

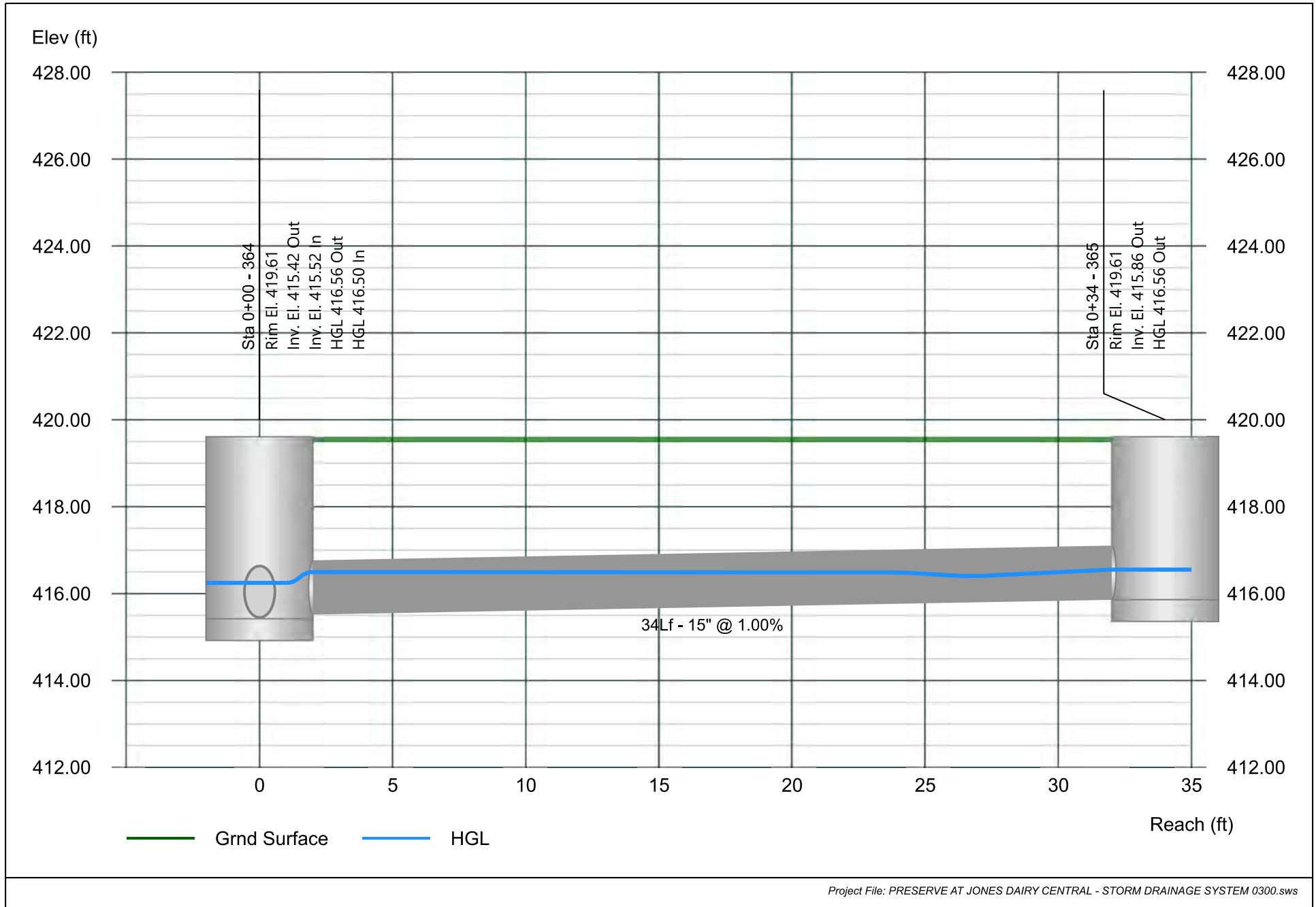


Line 26 - 365 TO 364

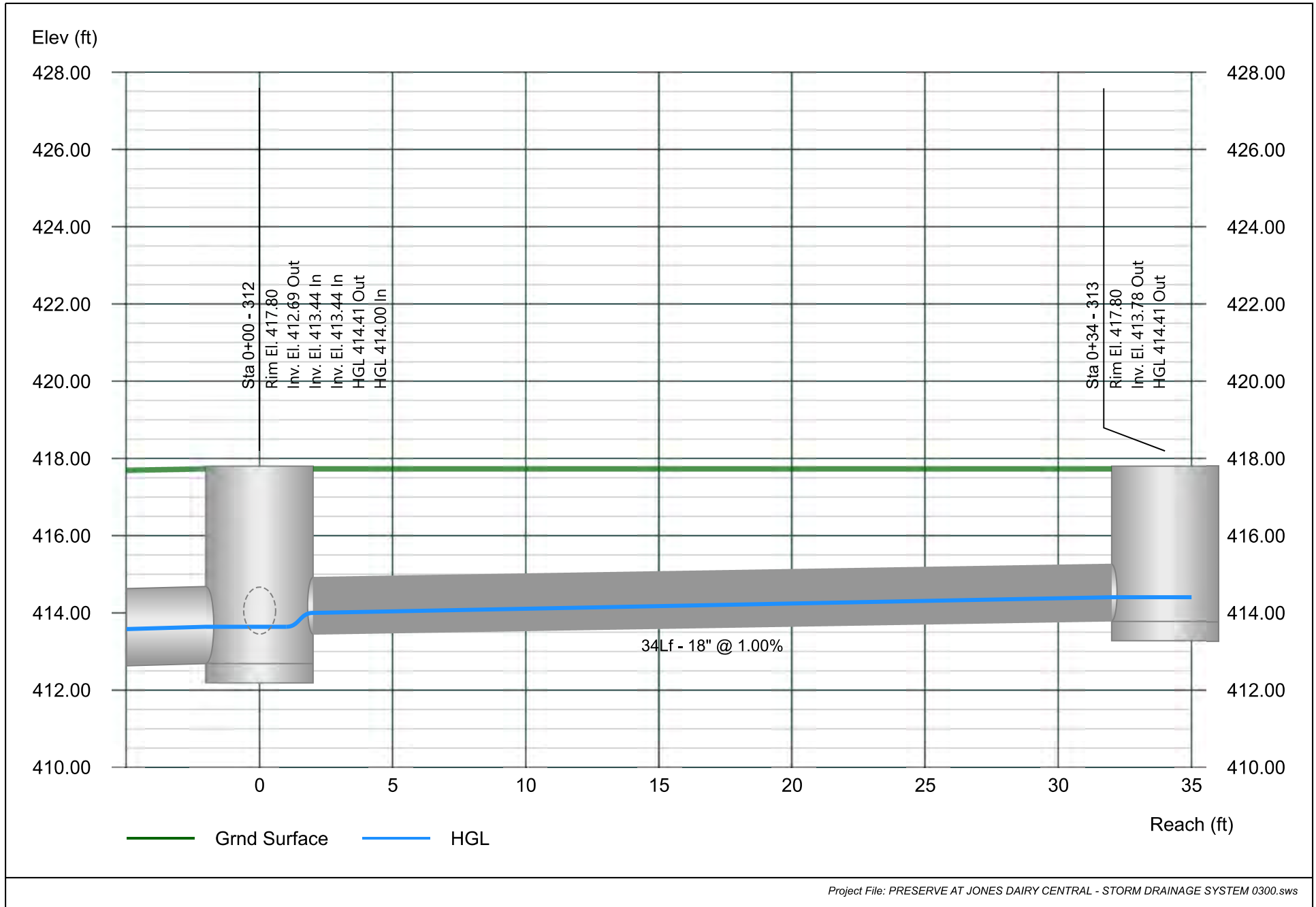
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

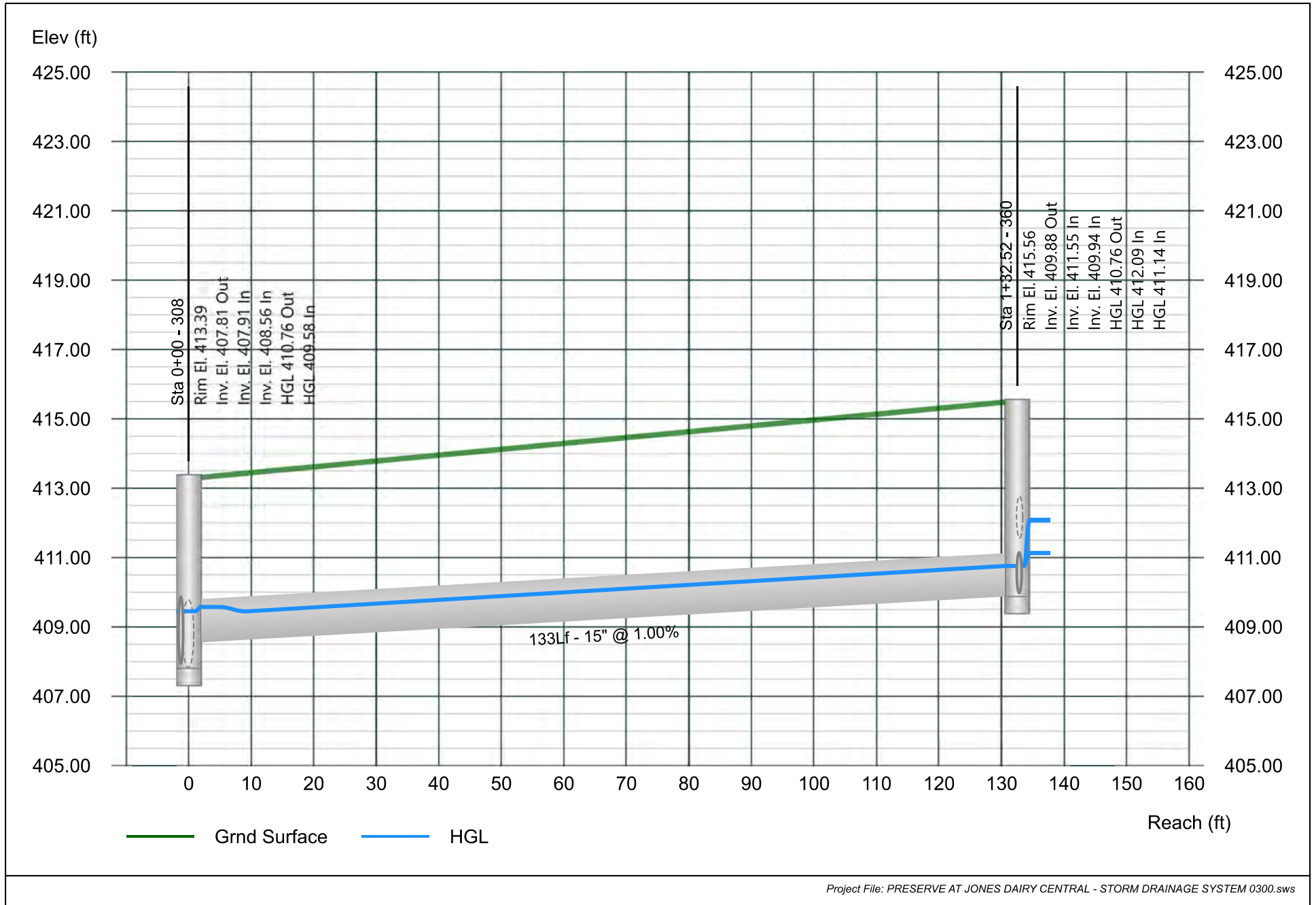
03-01-2024



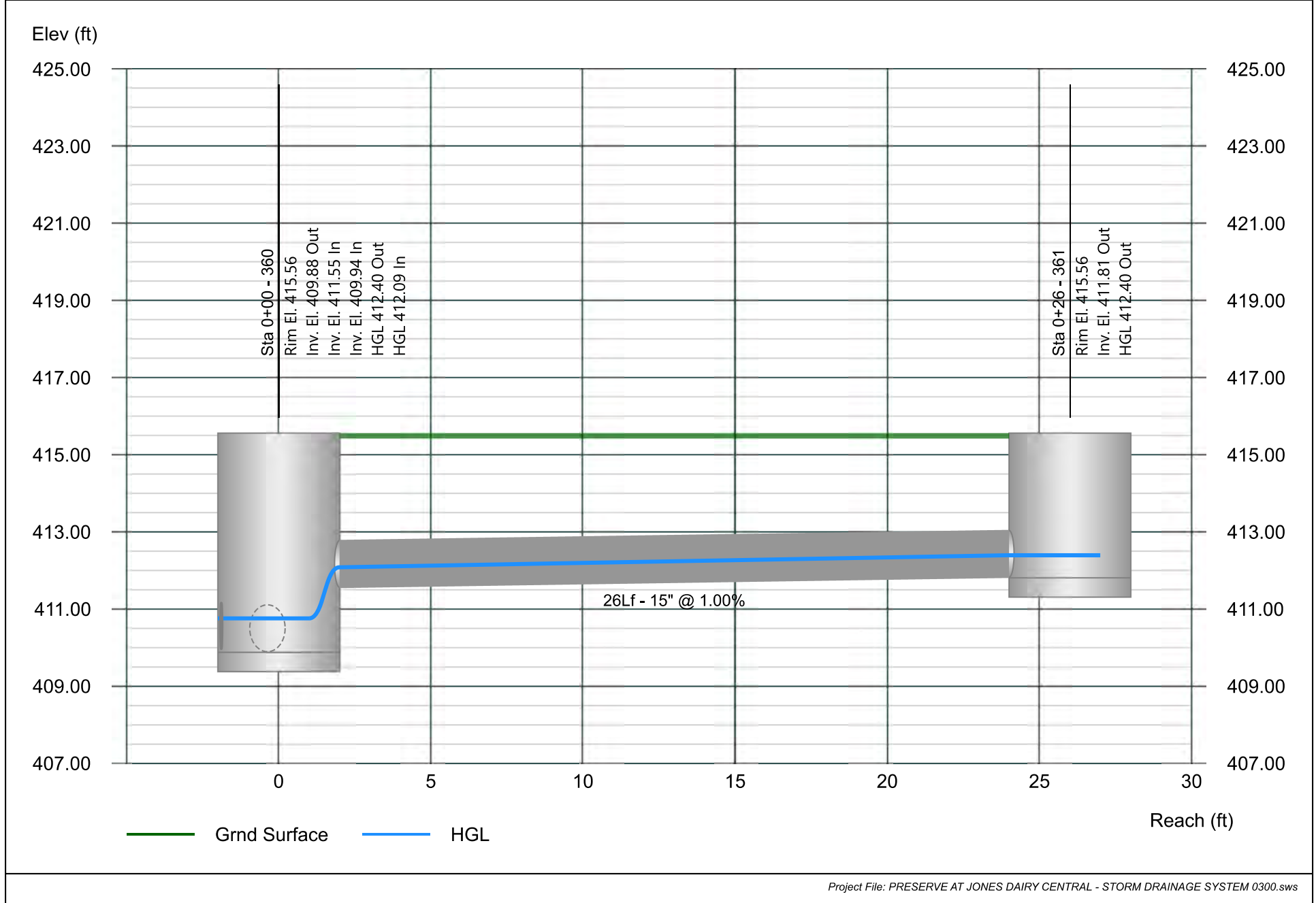
Line 27 - 313 TO 312



Line 28 - 360 TO 308



Line 29 - 361 TO 360

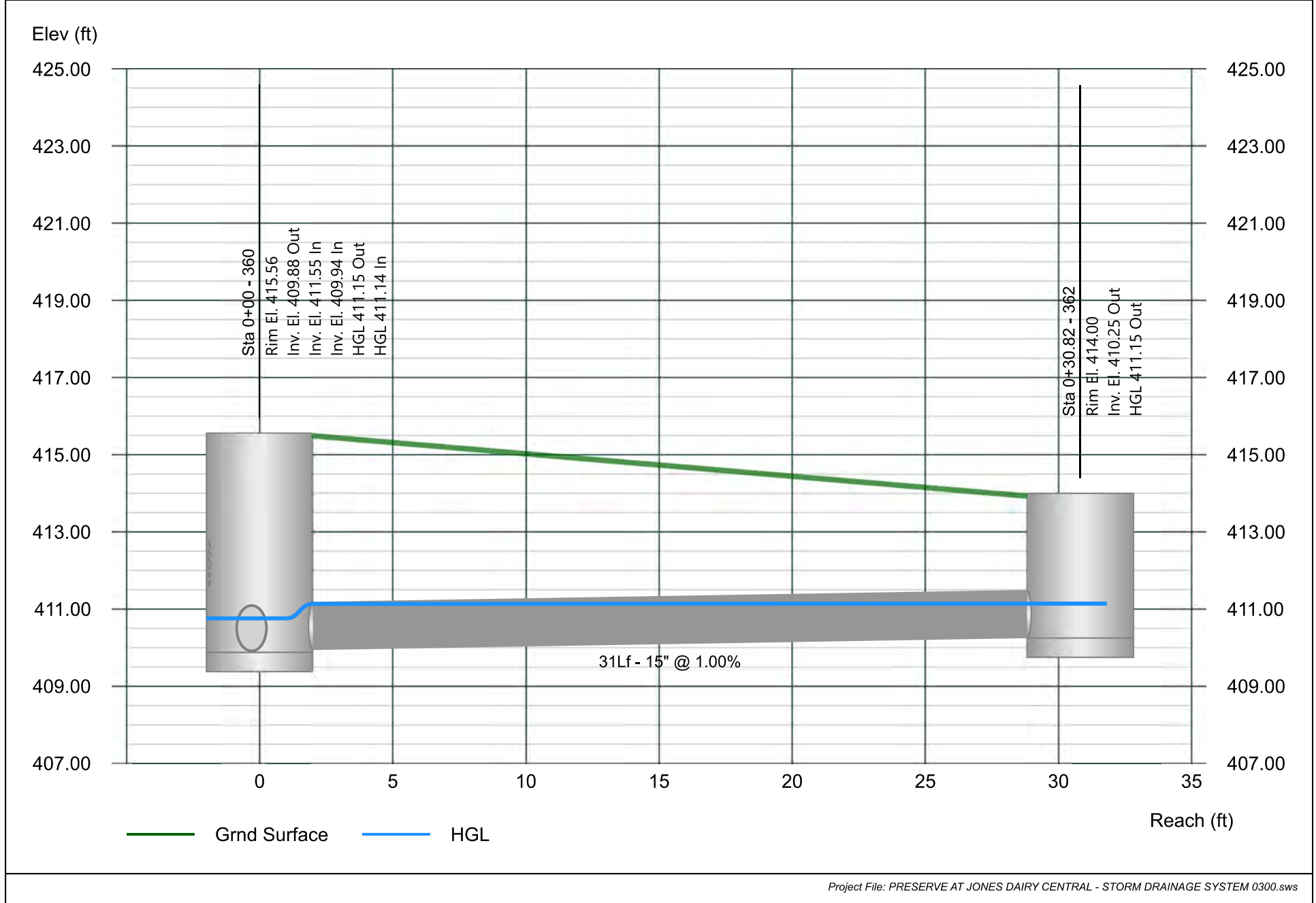


Line 30 - 362 TO 360

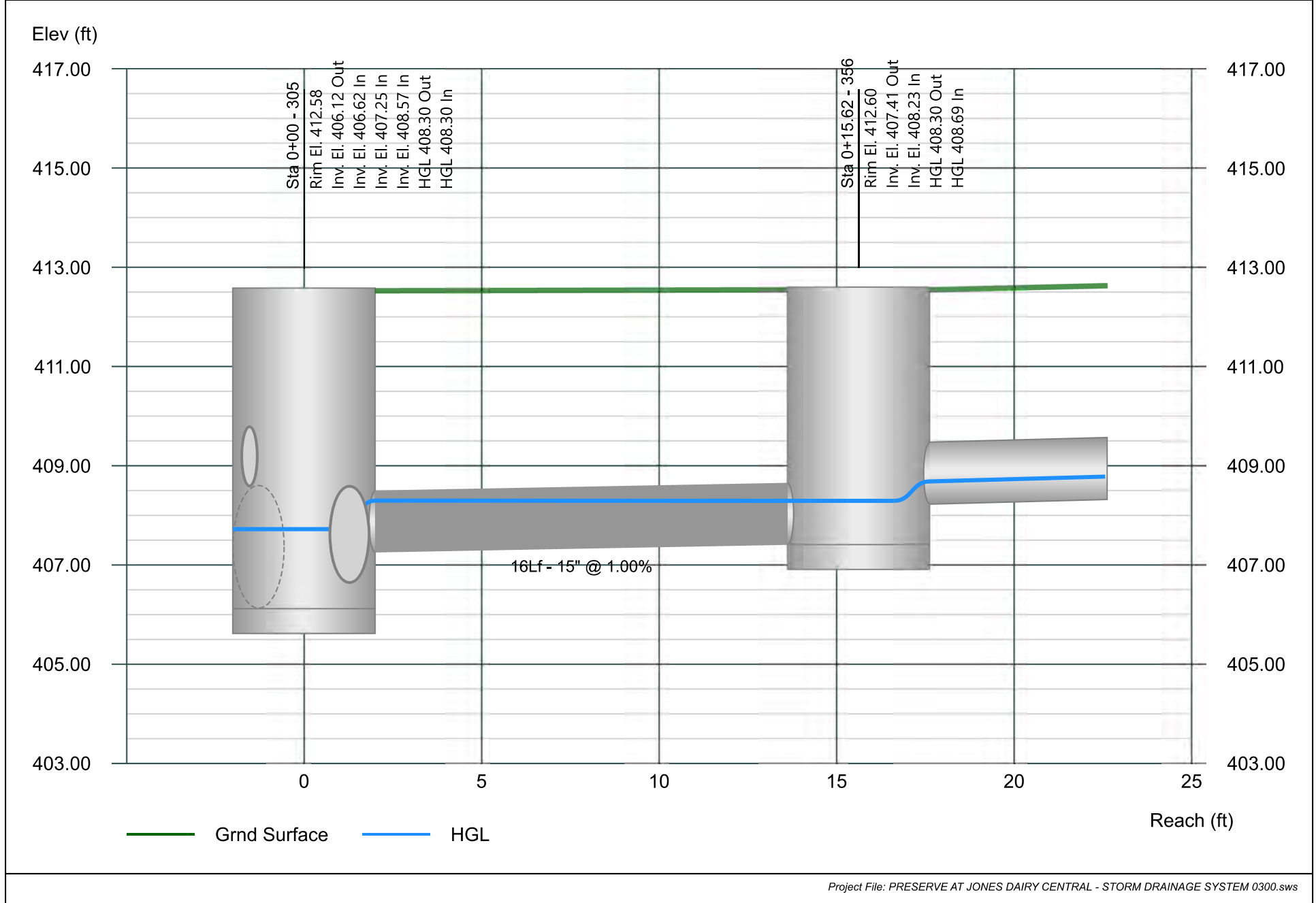
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 31 - 356 TO 305

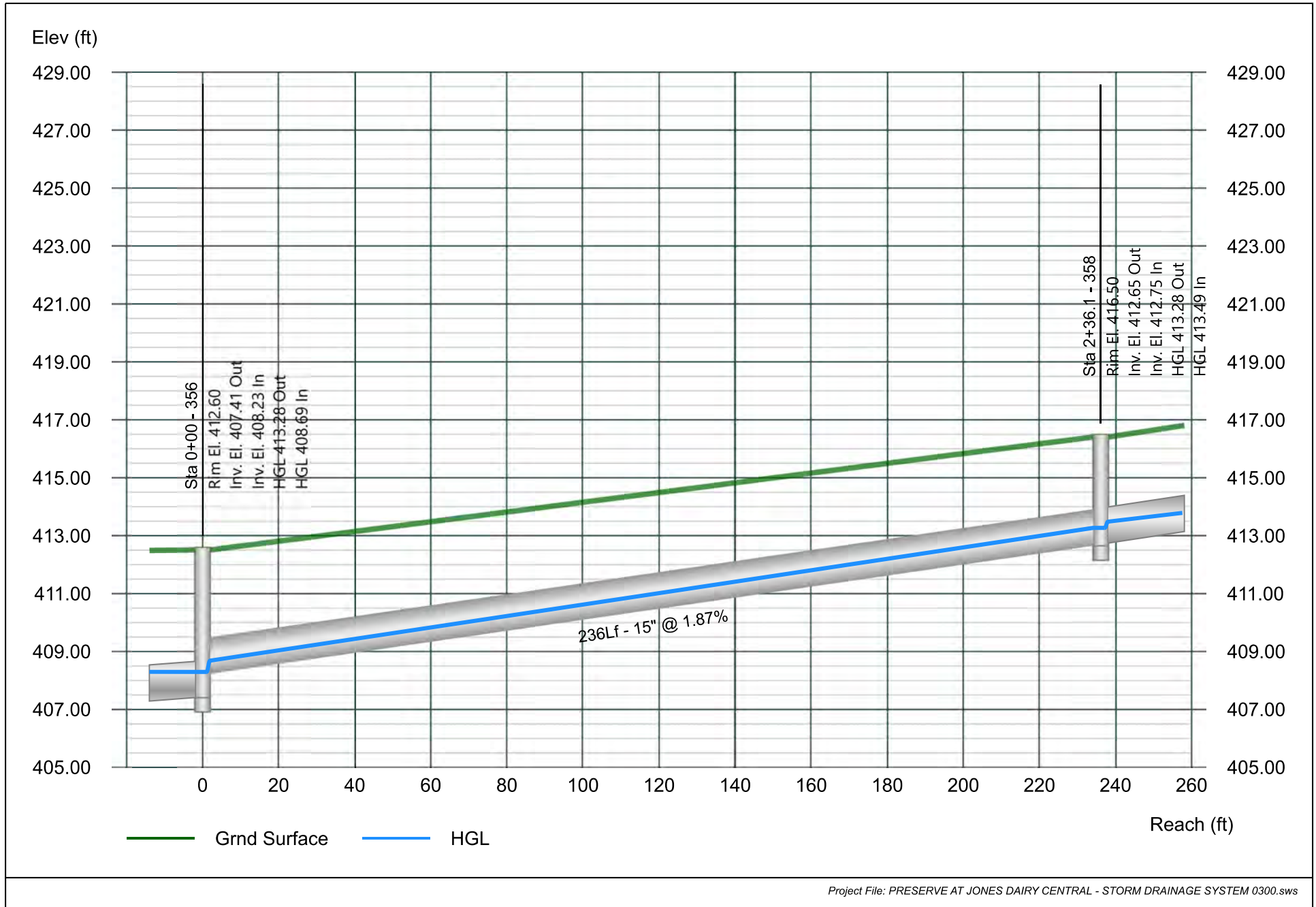


Line 32 - 358 TO 357

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

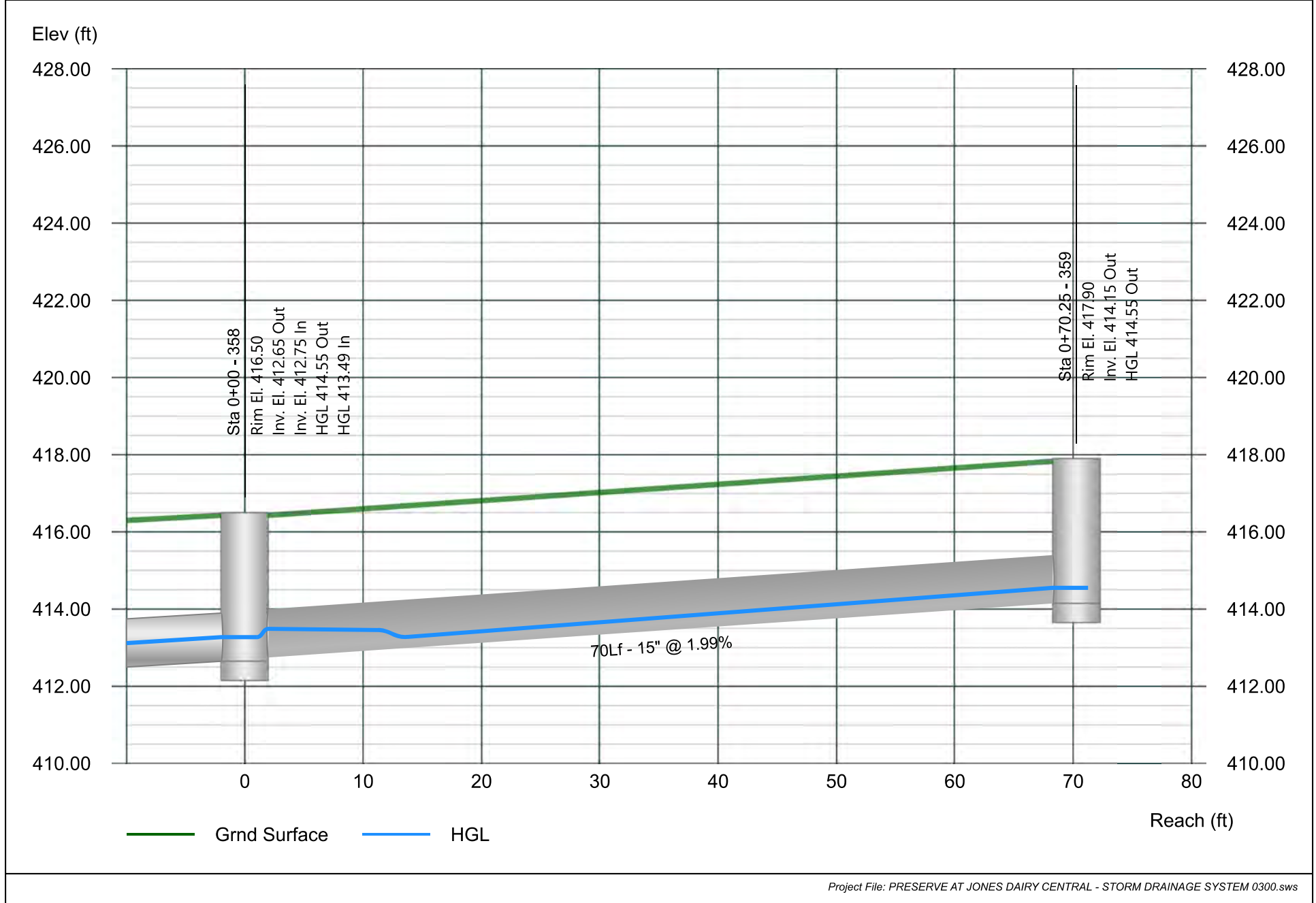


Line 33 - 359 TO 358

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

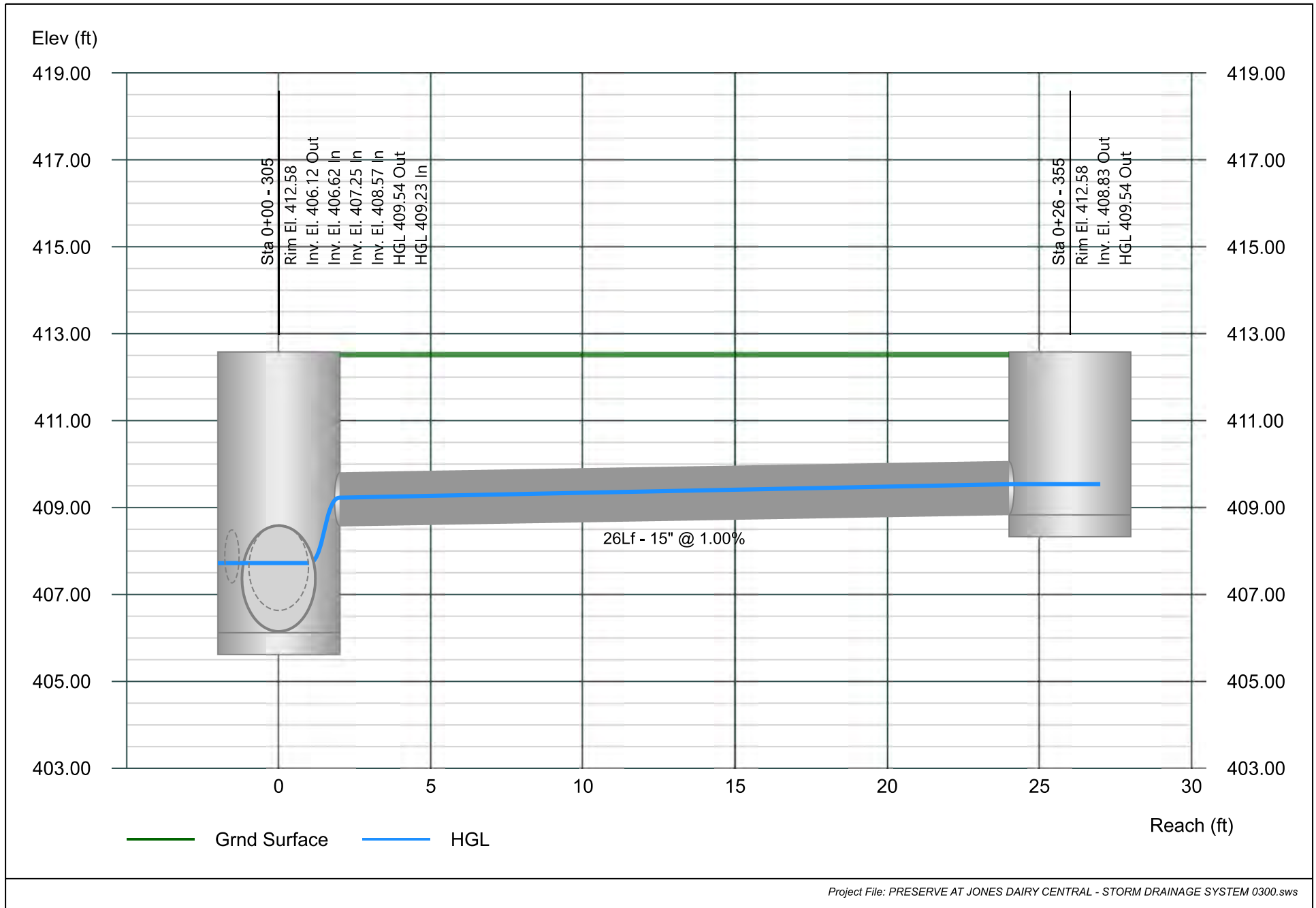


Line 34 - 355 TO 305

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

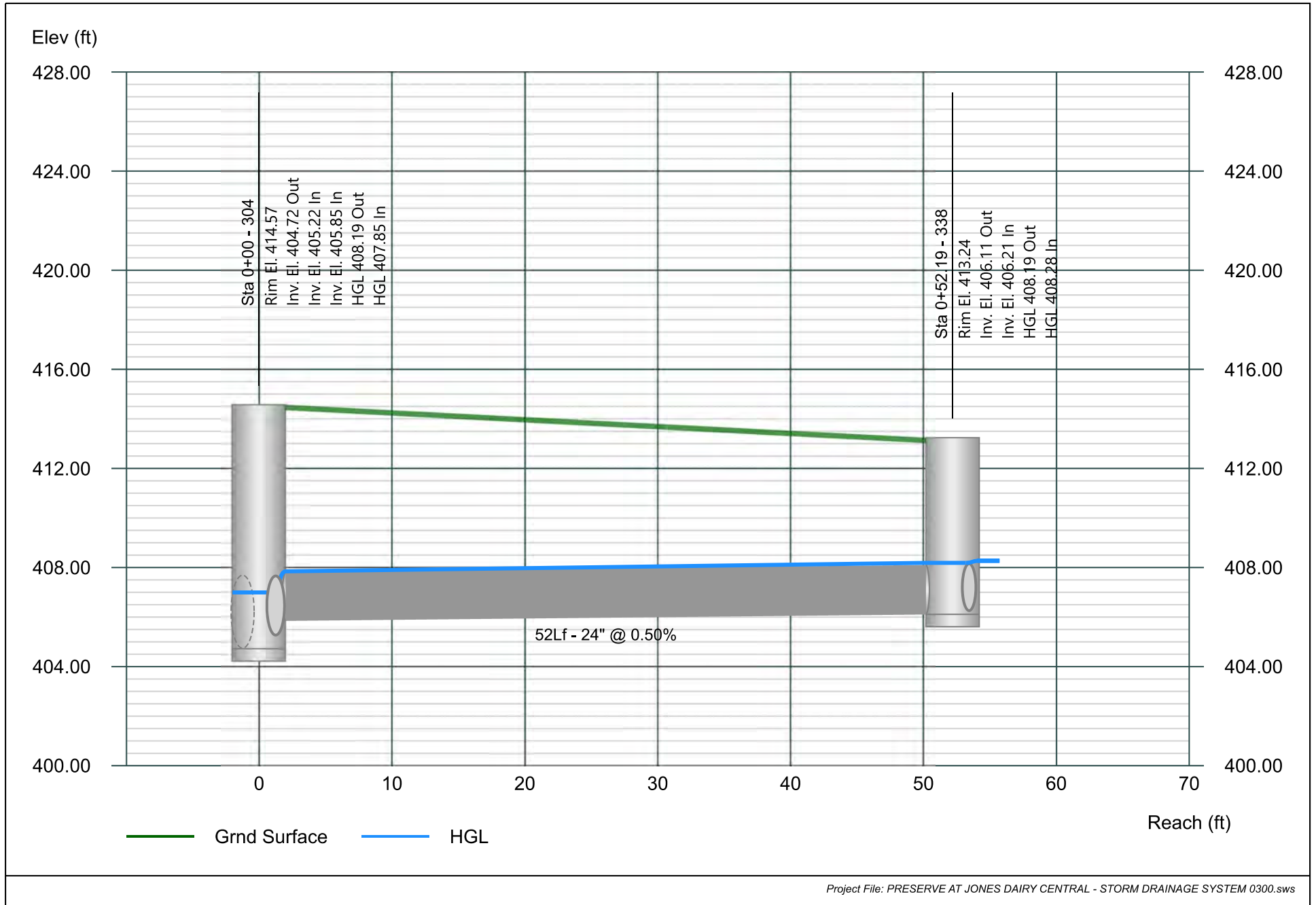


Line 35 - 338 TO 304

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

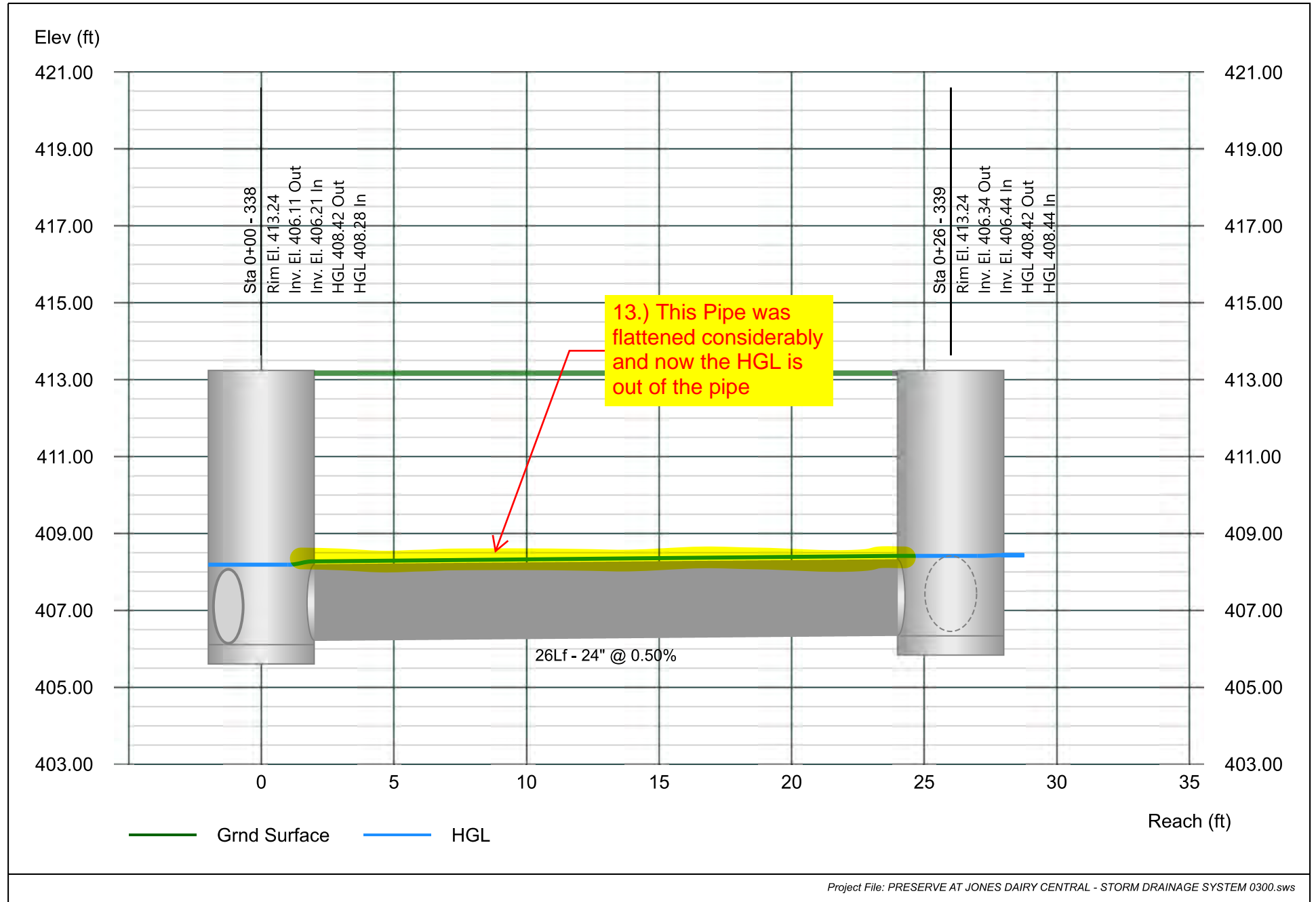


Line 36 - 339 TO 338

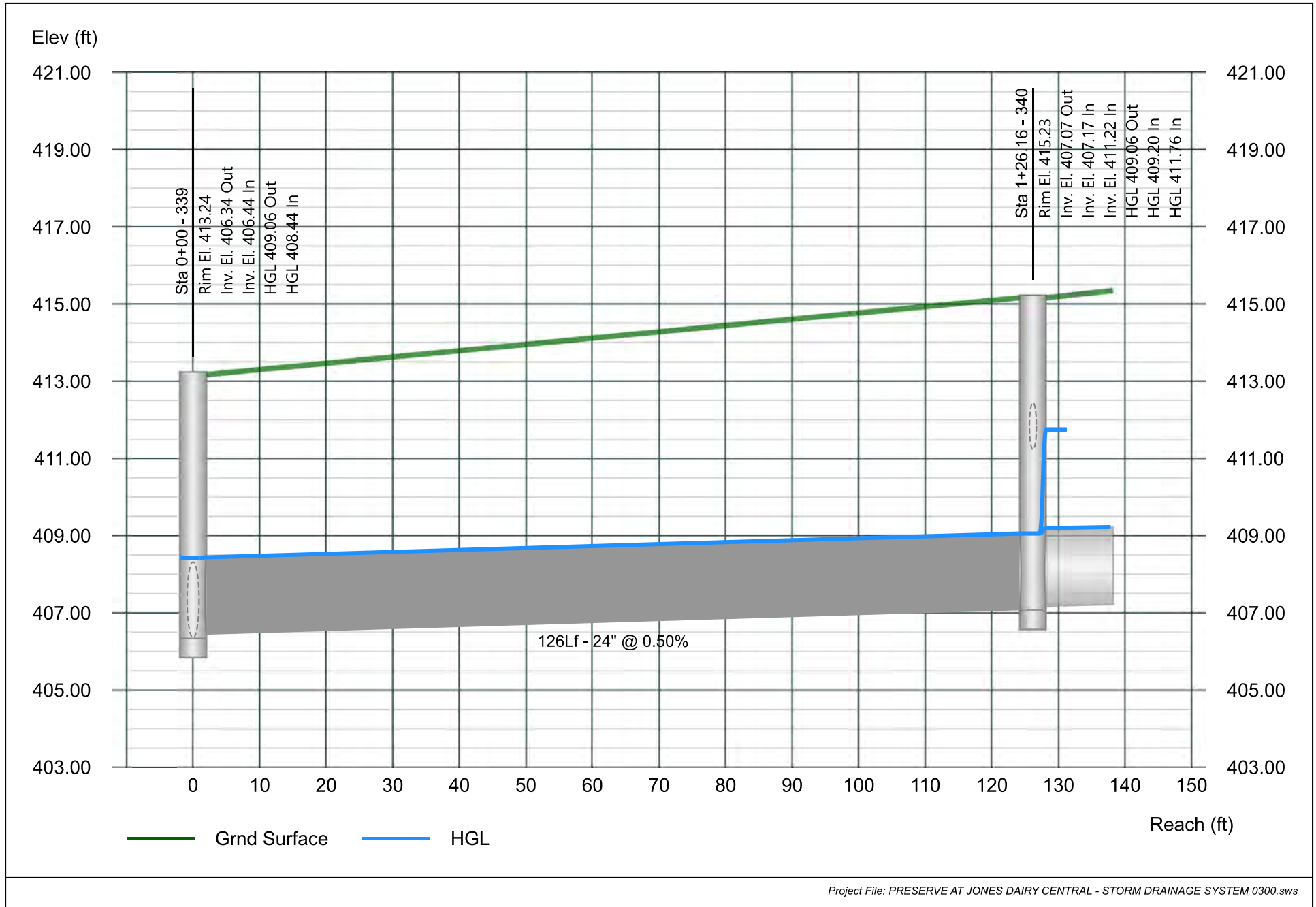
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 37 - 340 TO 339

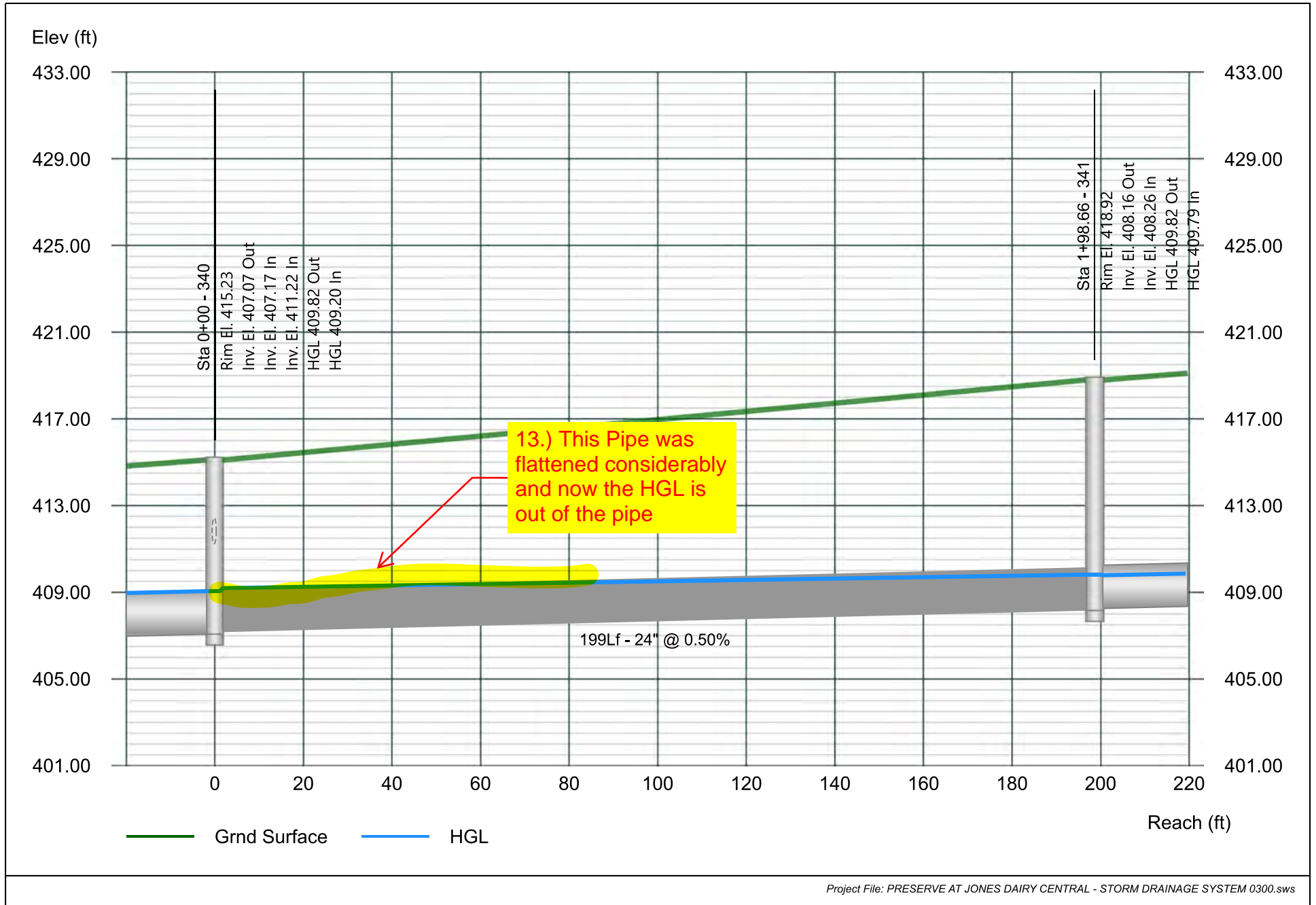


Line 38 - 341 TO 340

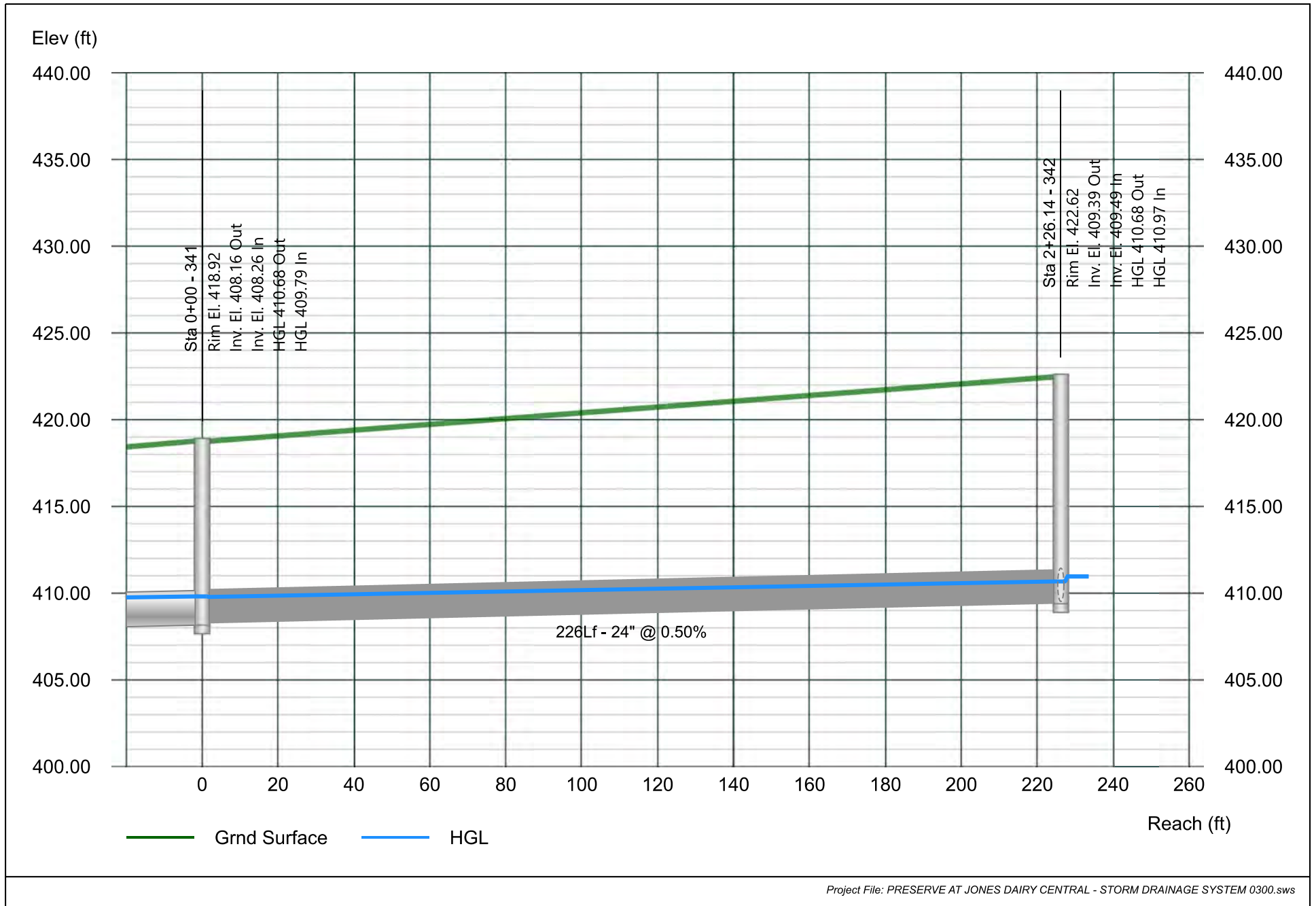
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 39 - 342 TO 341

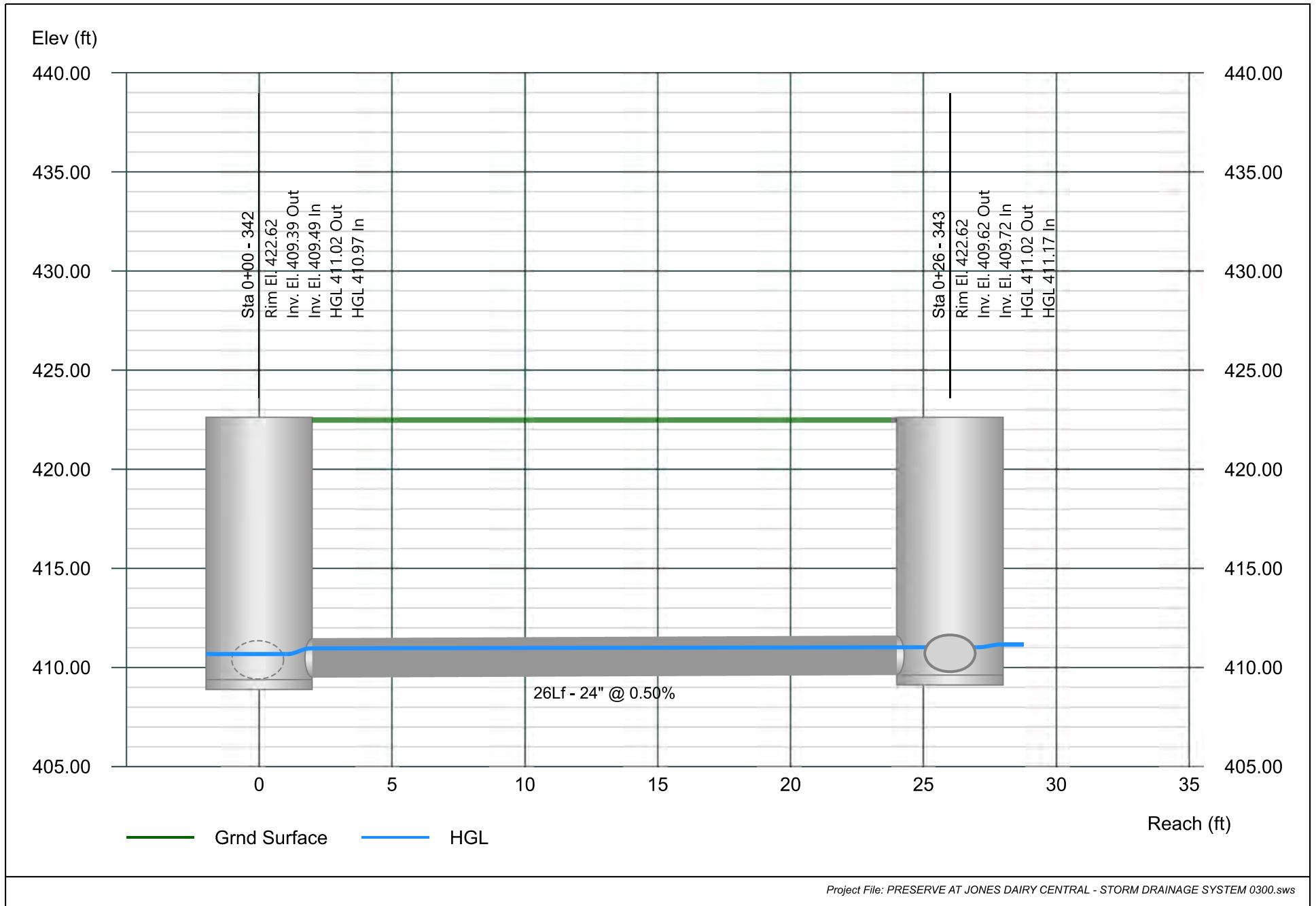


Line 40 - 343 TO 342

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

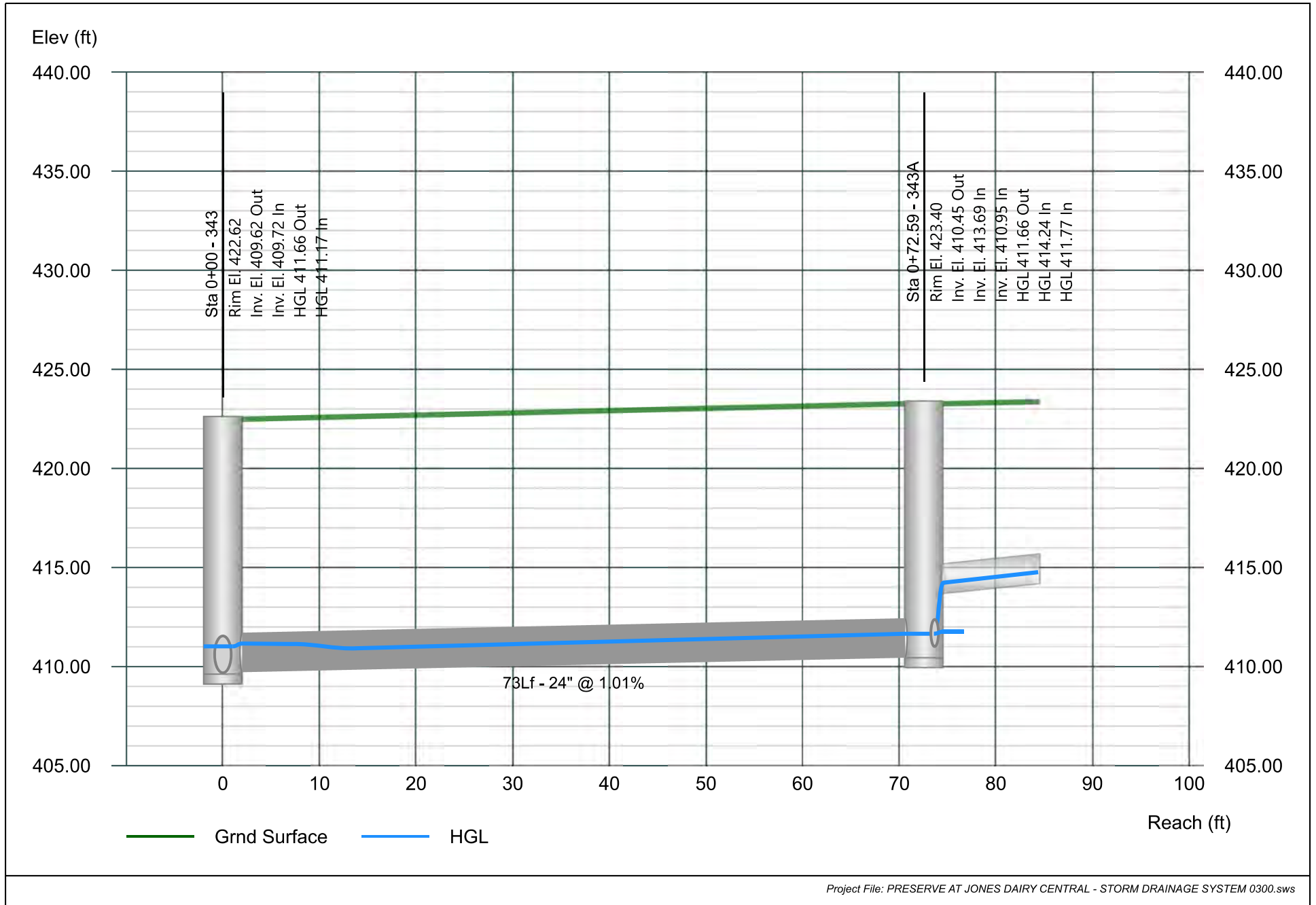


Line 41 - 343A TO 343

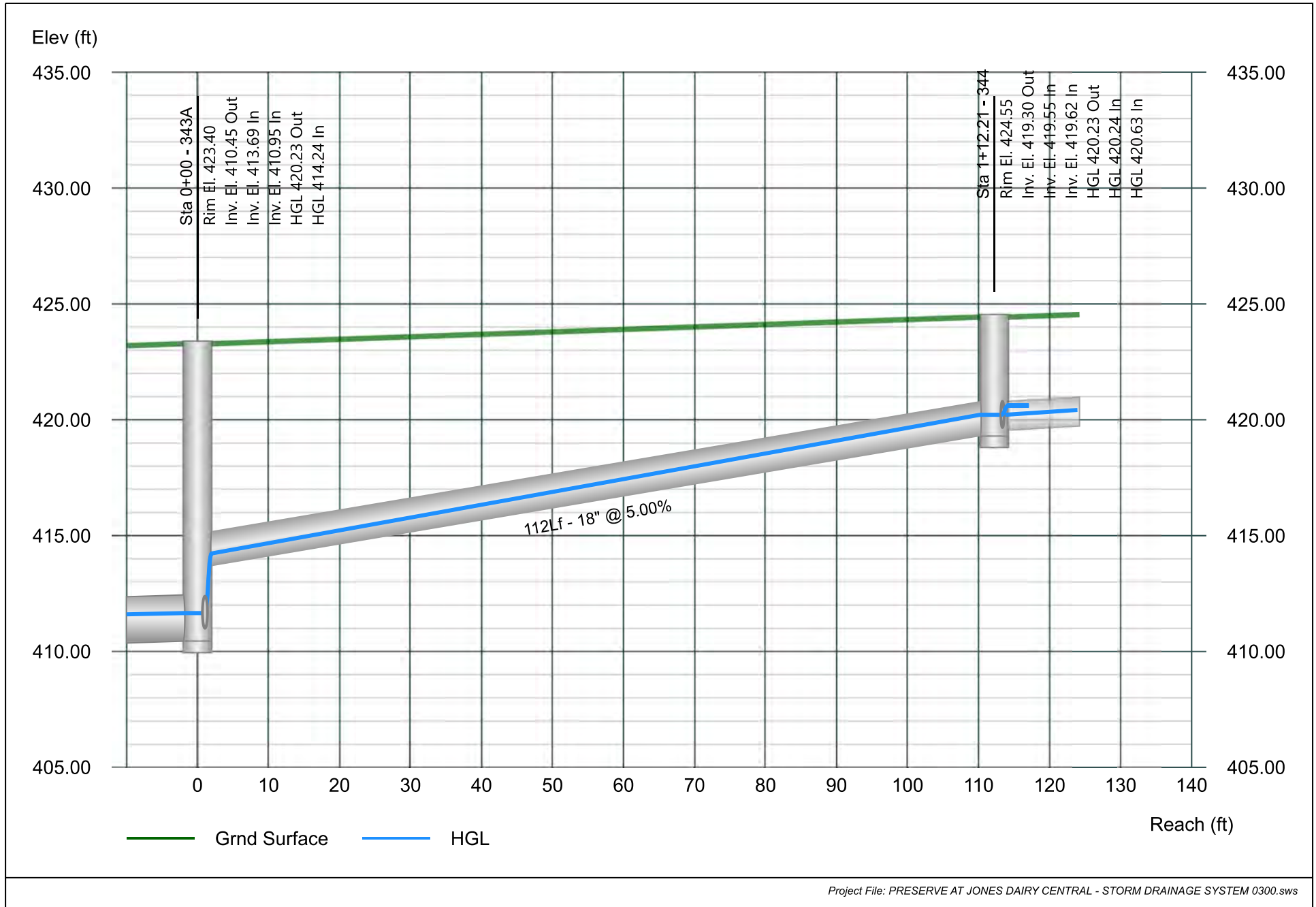
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

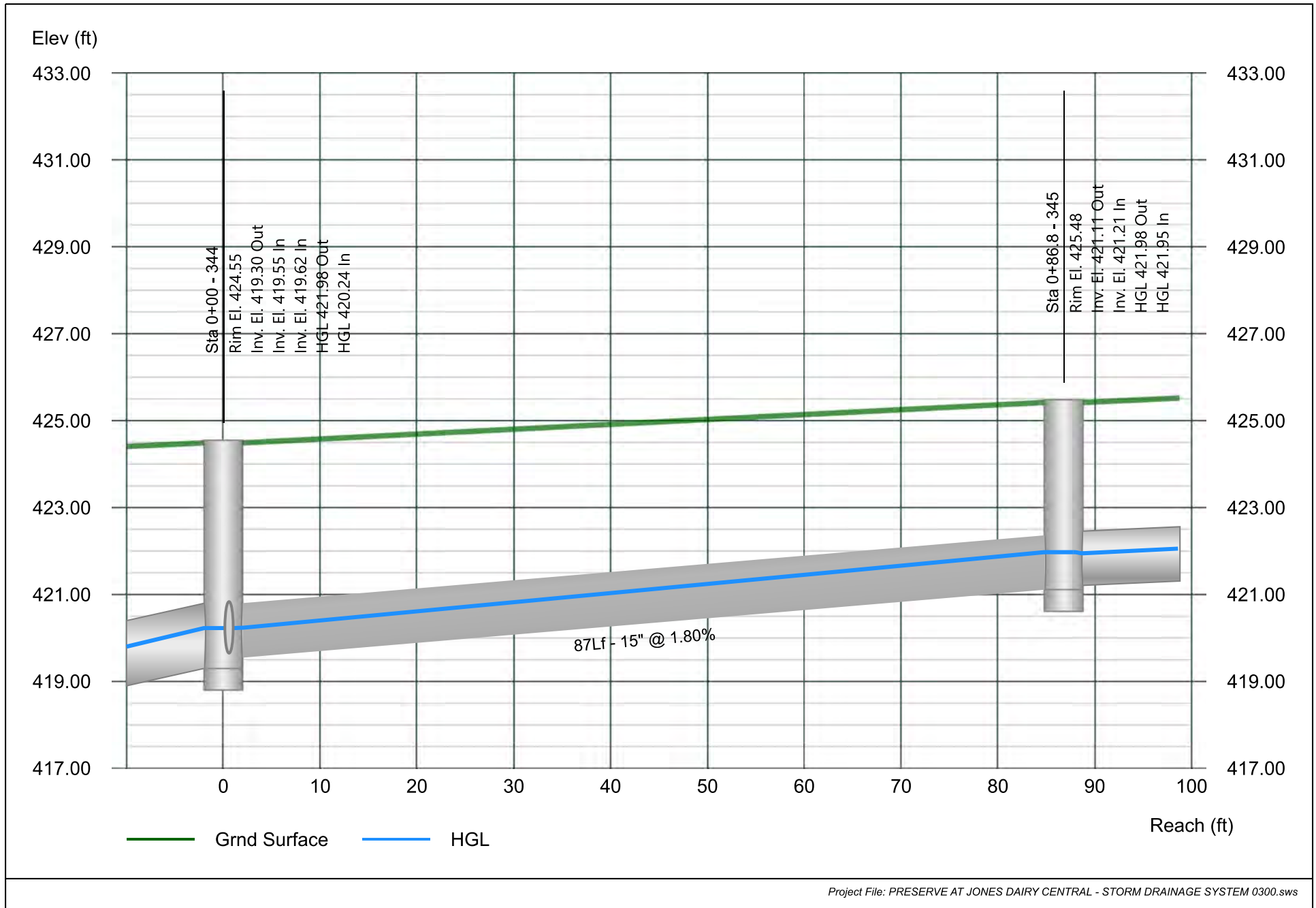
03-01-2024



Line 42 - 344 TO 343



Line 43 - 345 TO 344

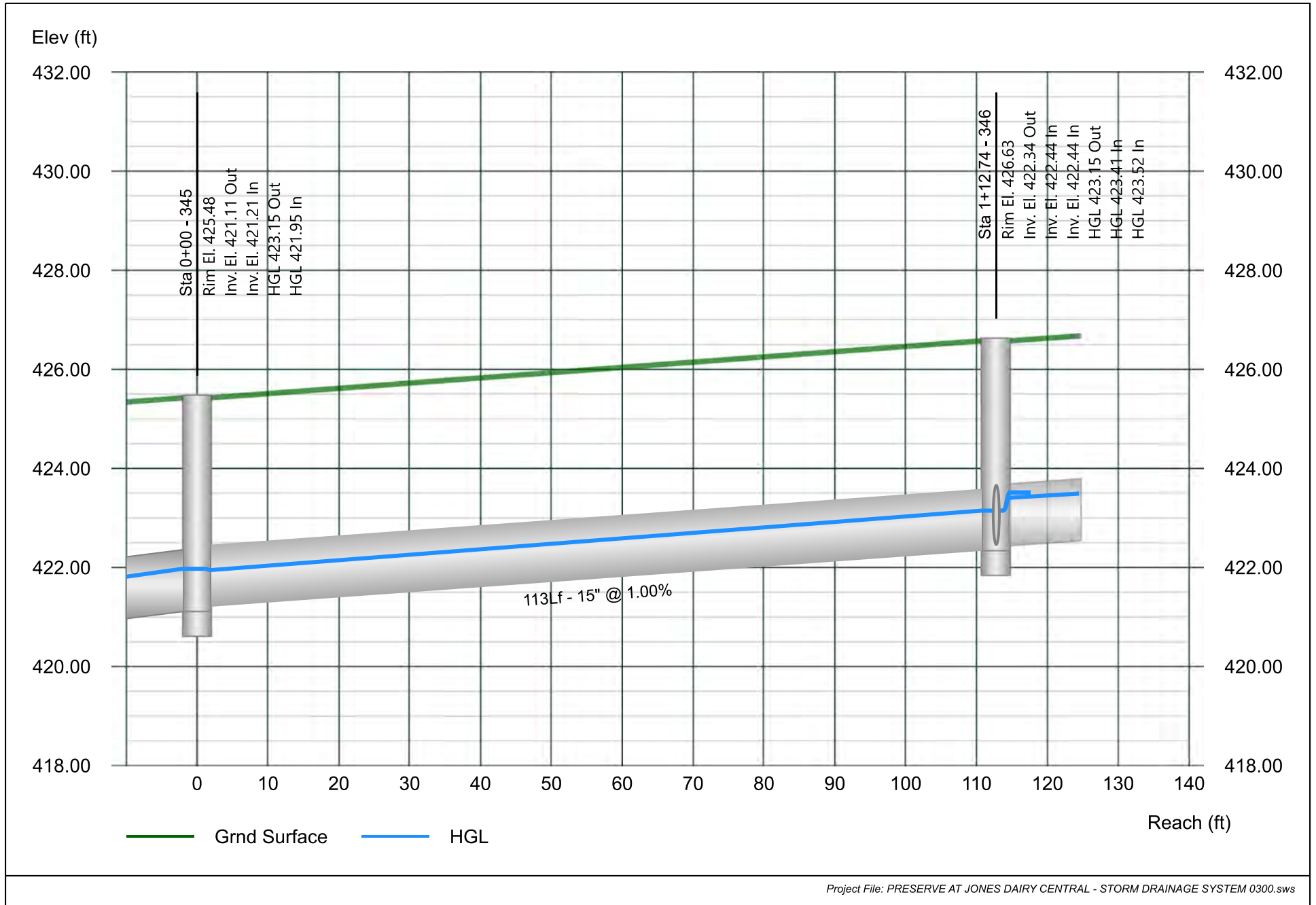


Line 44 - 346 TO 345

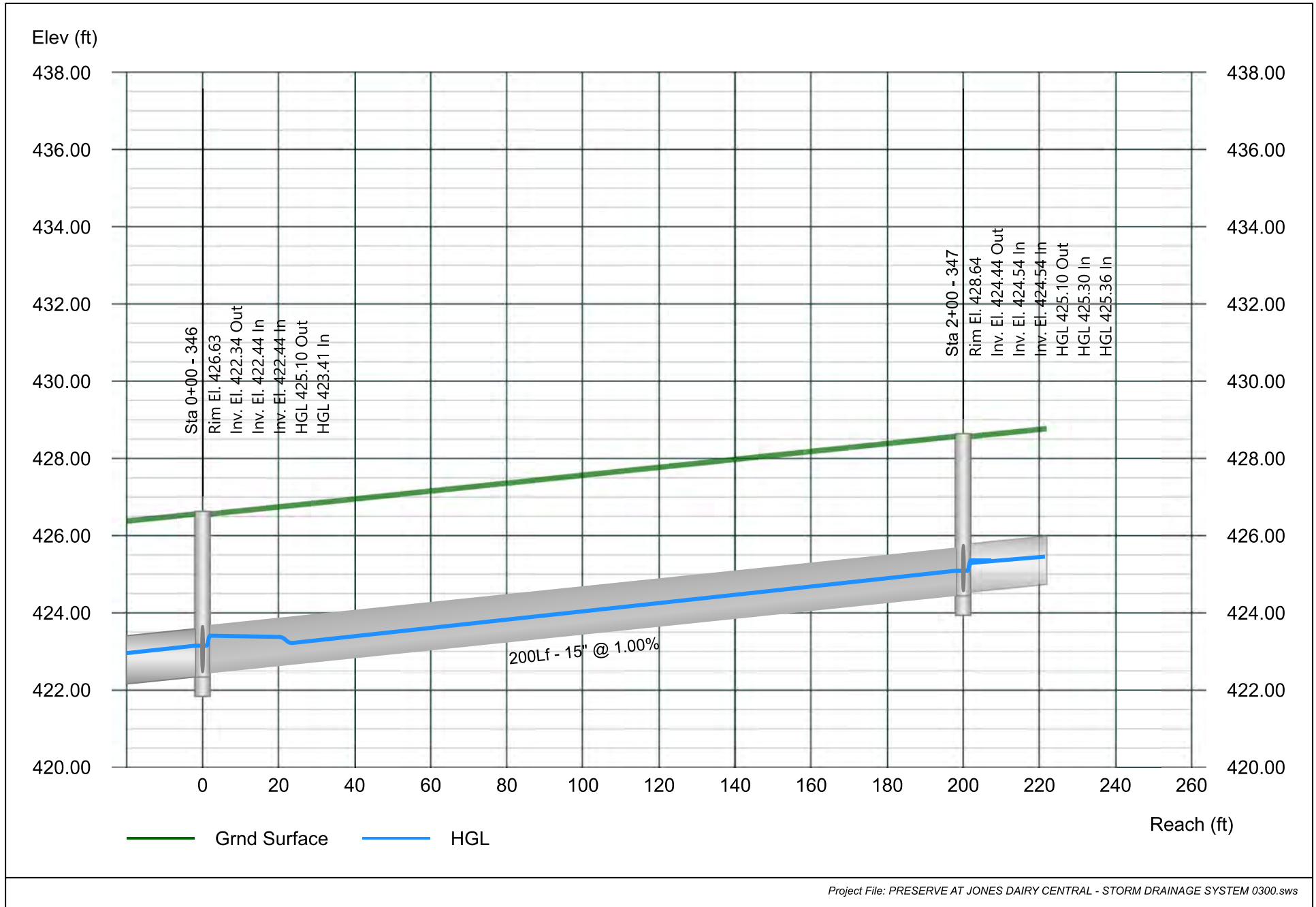
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

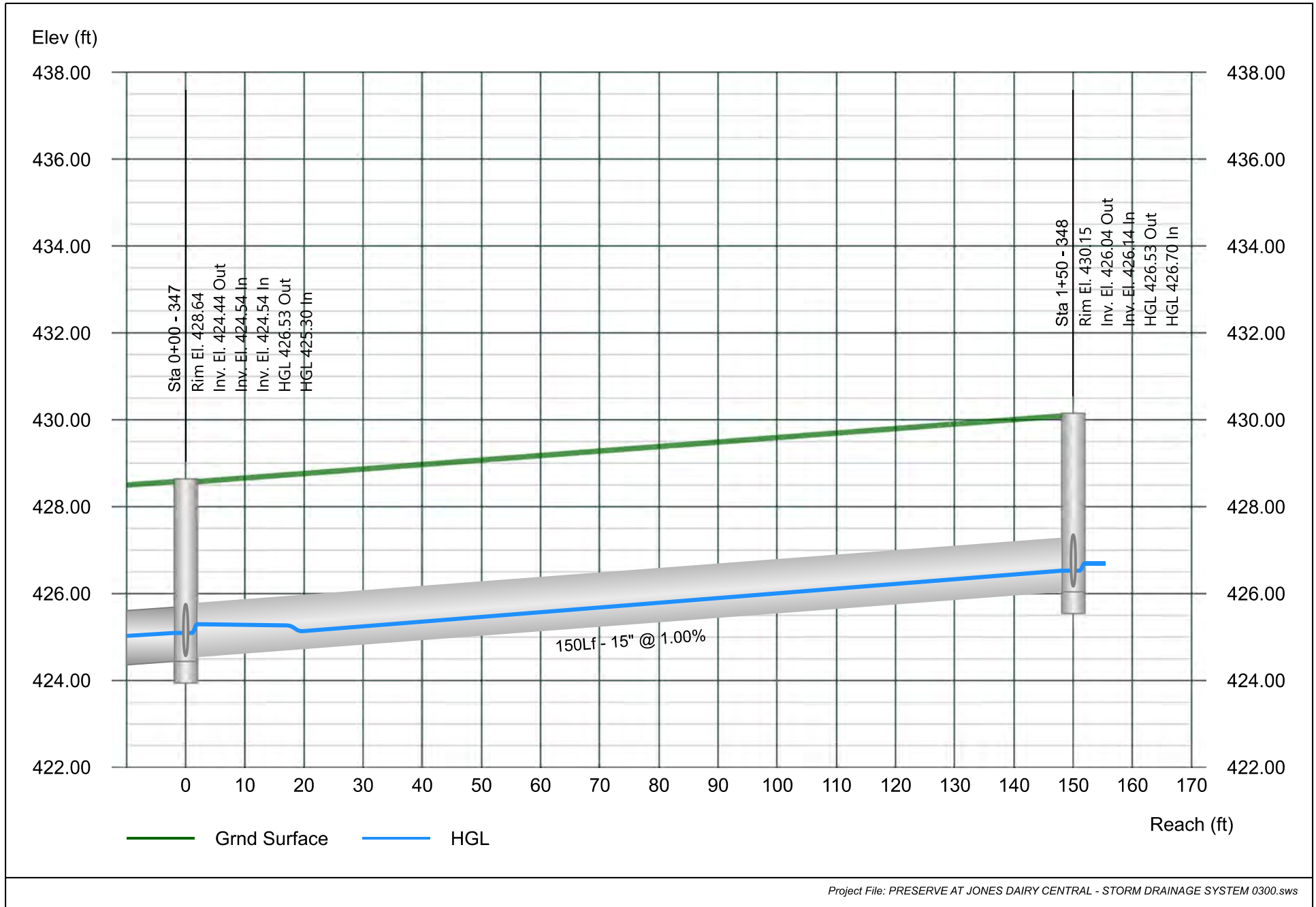
03-01-2024



Line 45 - 347 TO 346



Line 46 - 348 TO 347

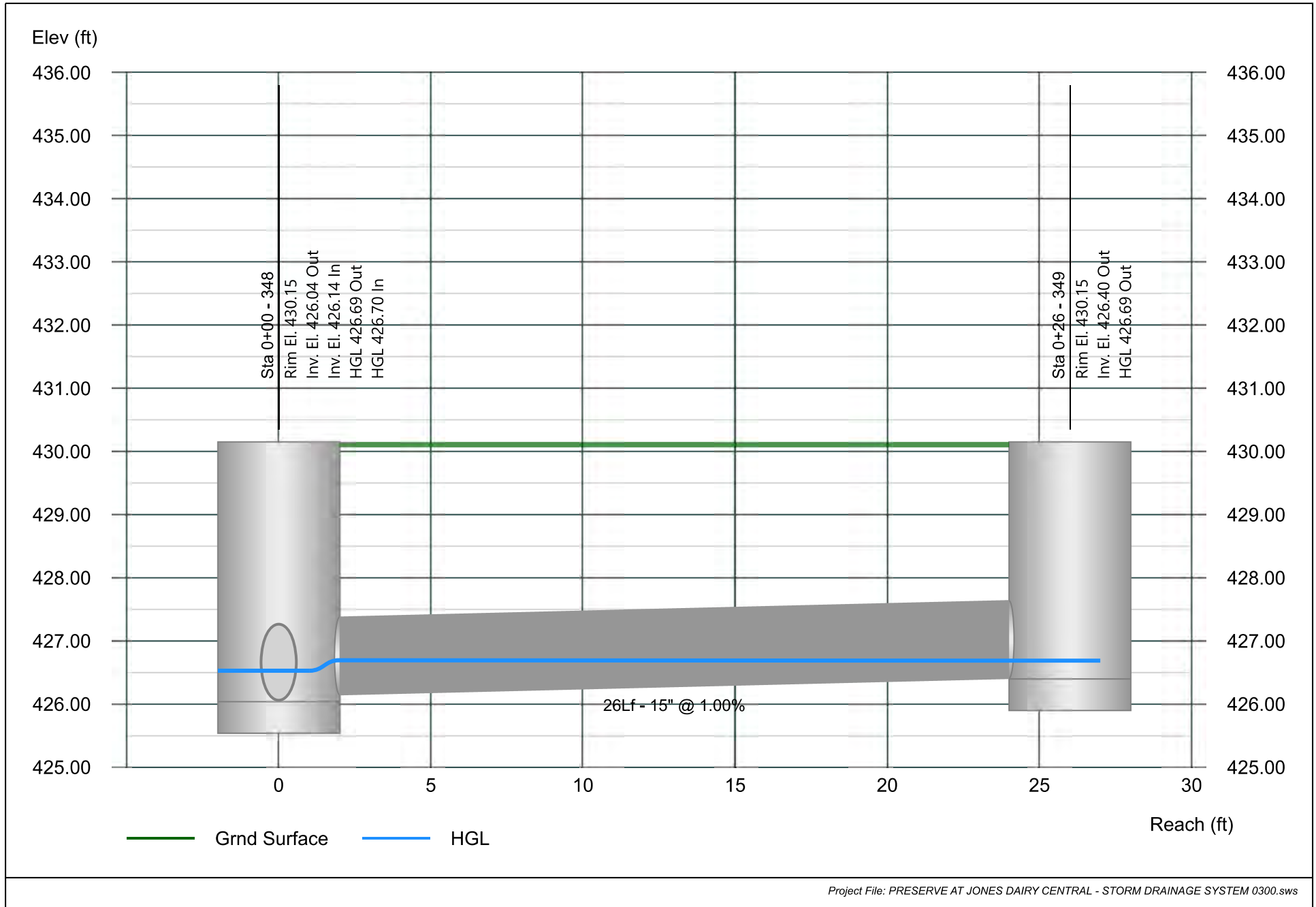


Line 47 - 349 TO 348

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

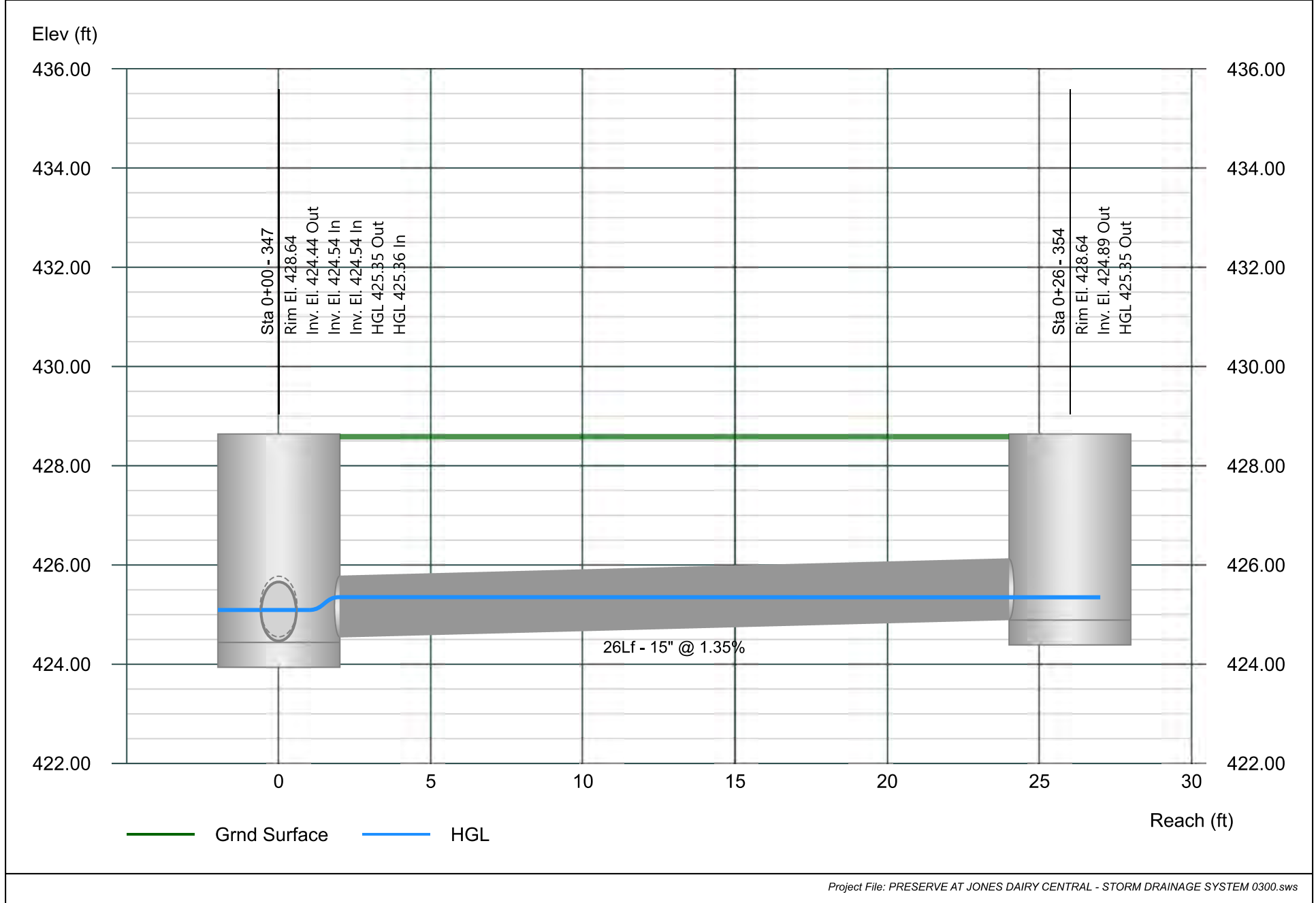


Line 48 - 354 TO 347

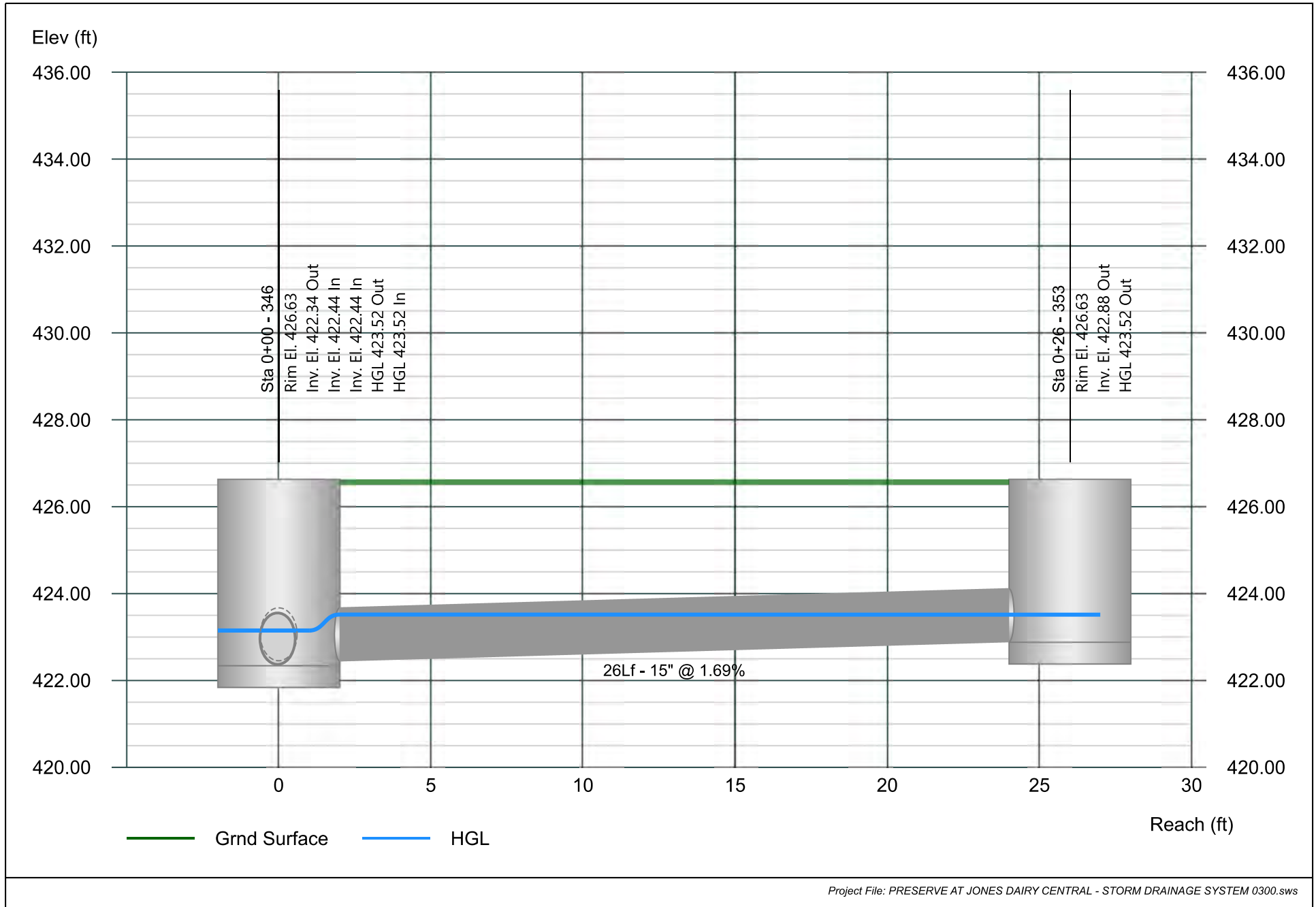
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

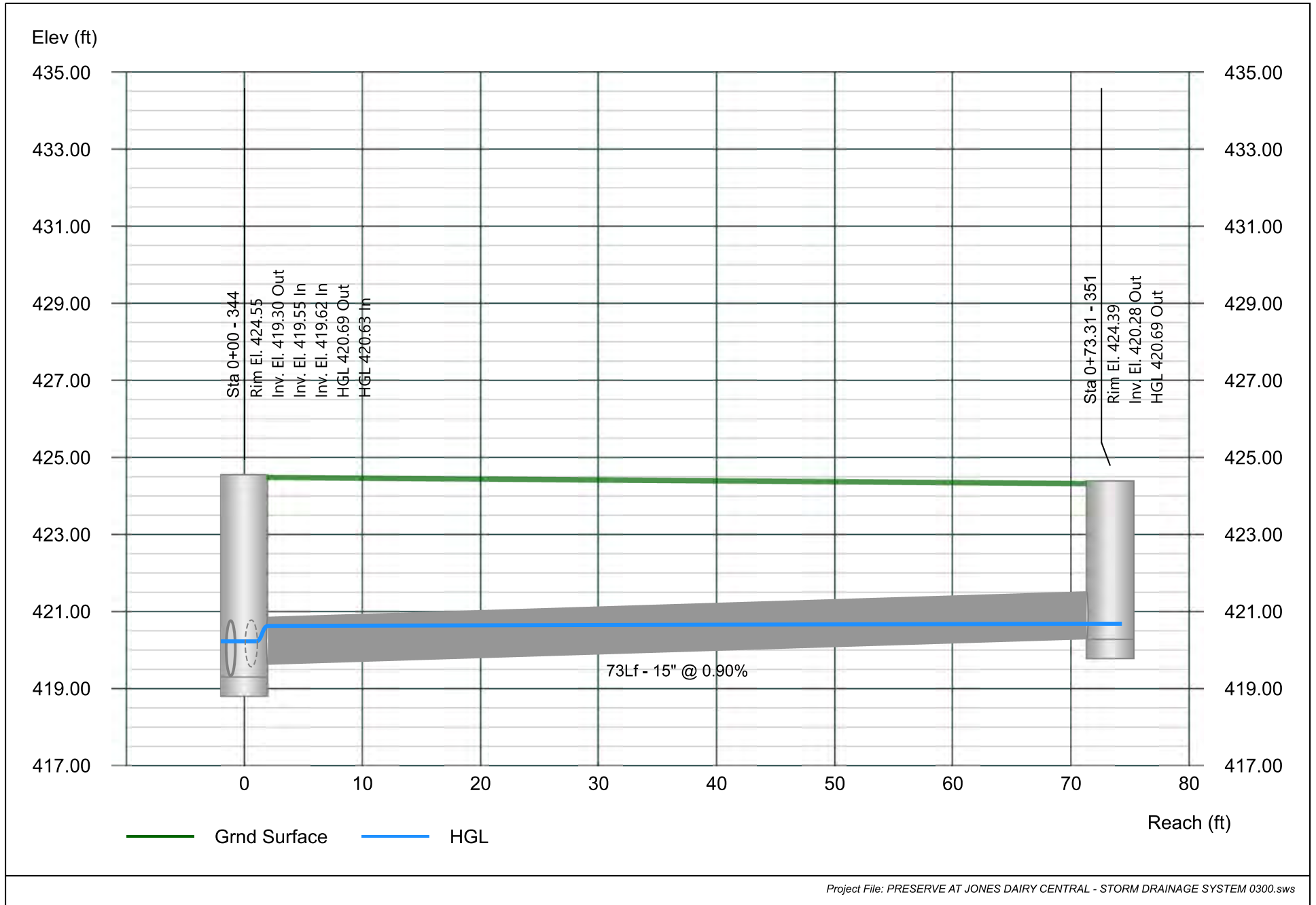
03-01-2024



Line 49 - 353 TO 346



Line 50 - 351 TO 344

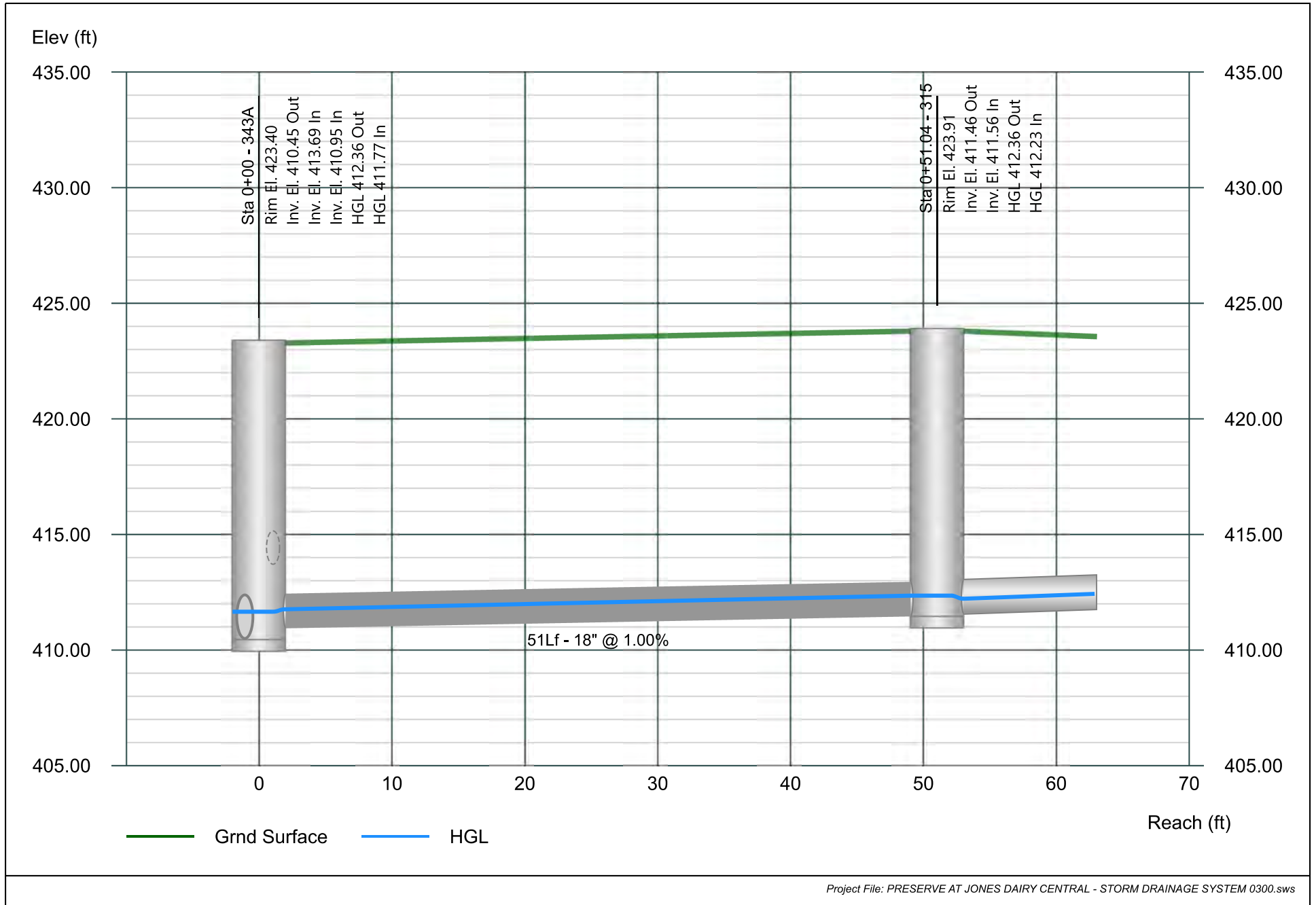


Line 51 - 315 TO 343A

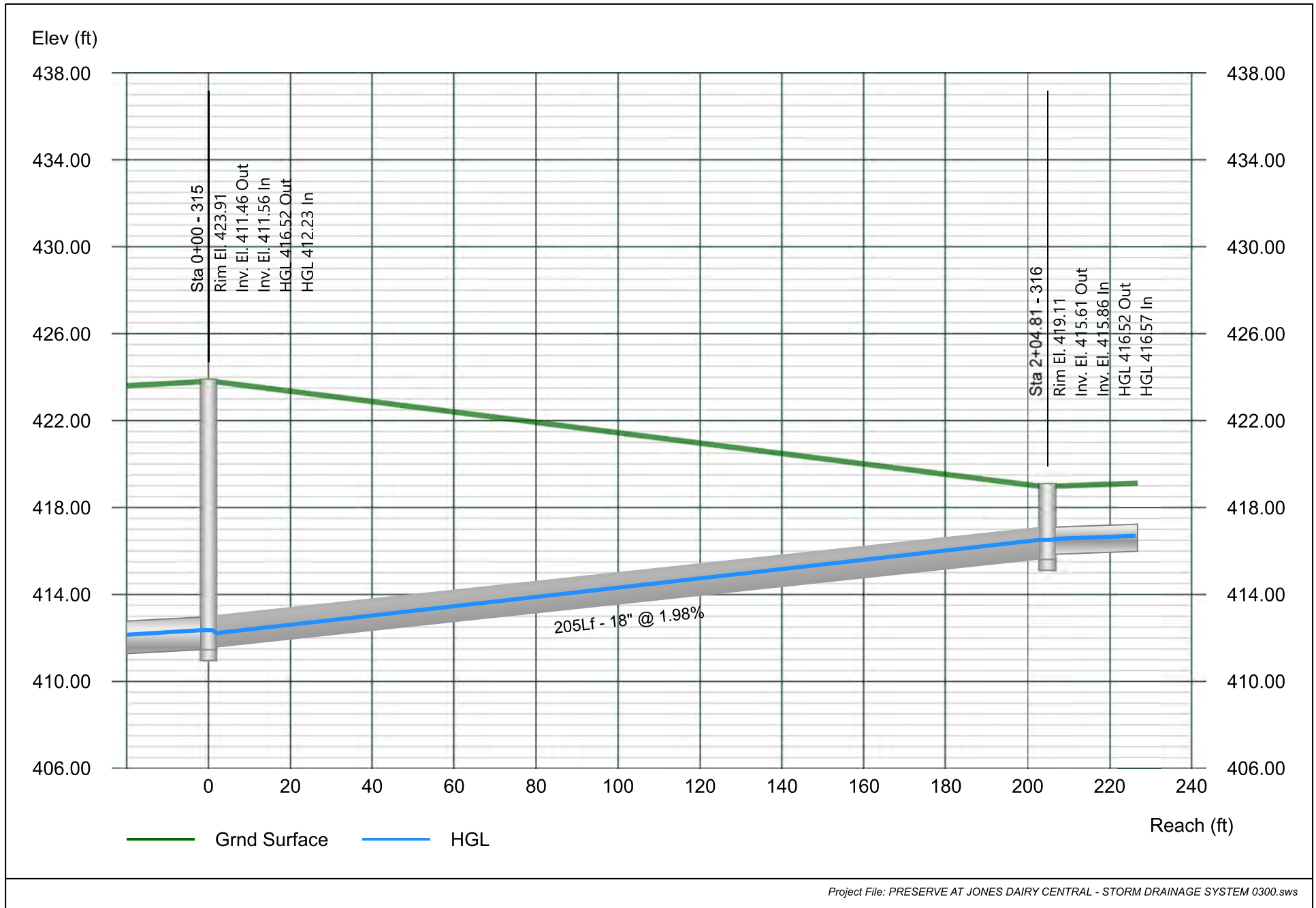
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

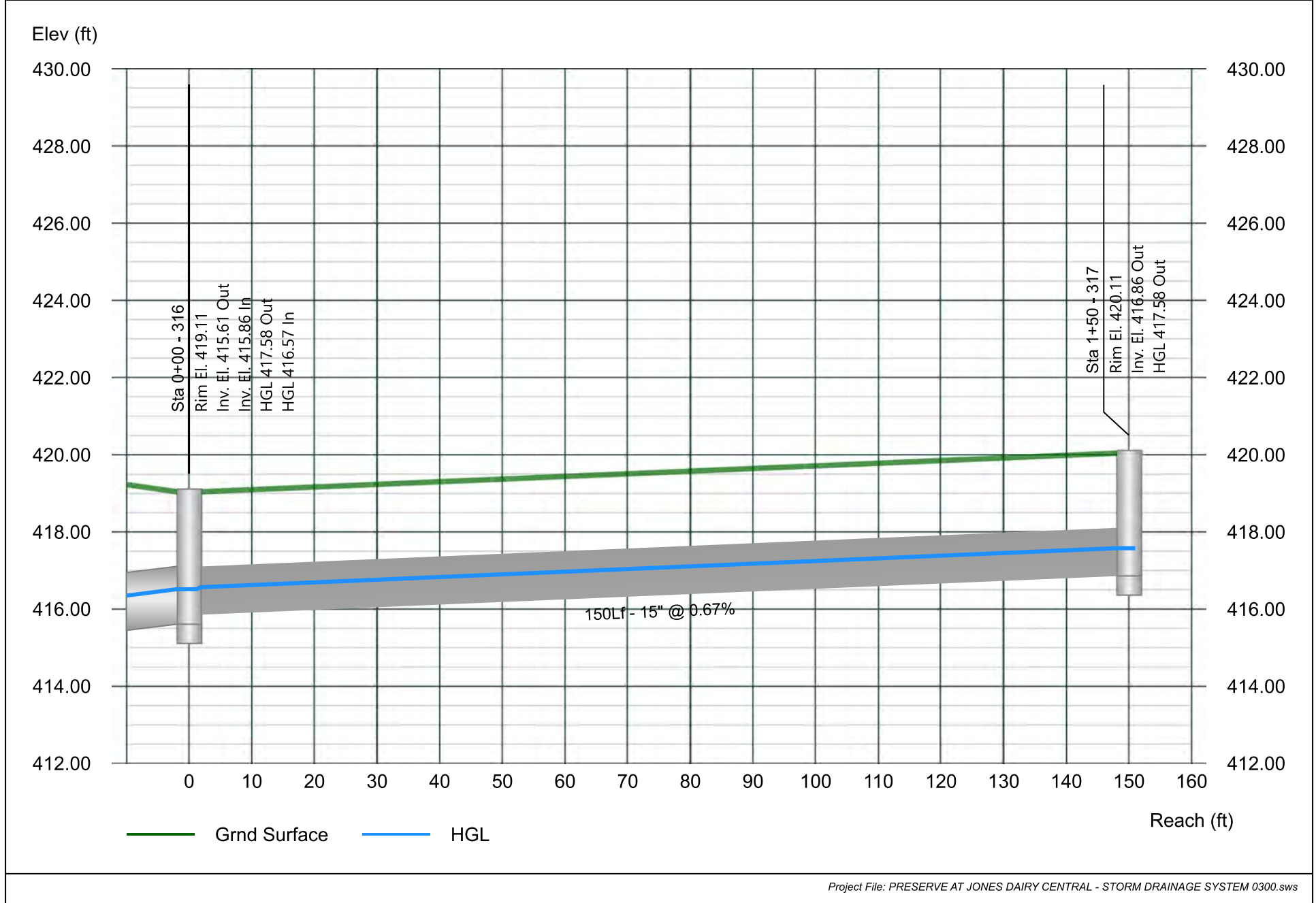
03-01-2024



Line 52 - 316 TO 315



Line 53 - 317 TO 316

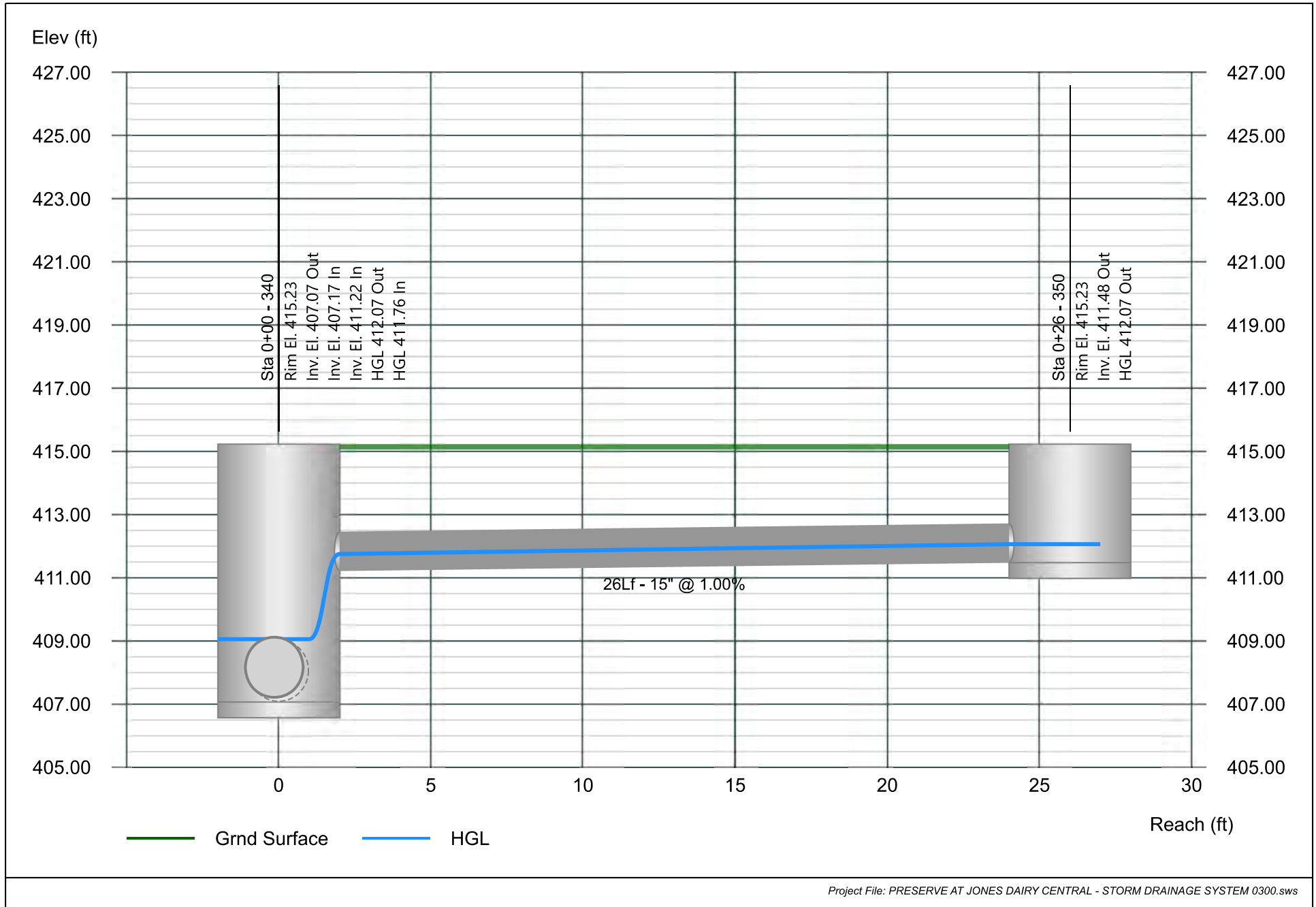


Line 54 - 350 TO 340

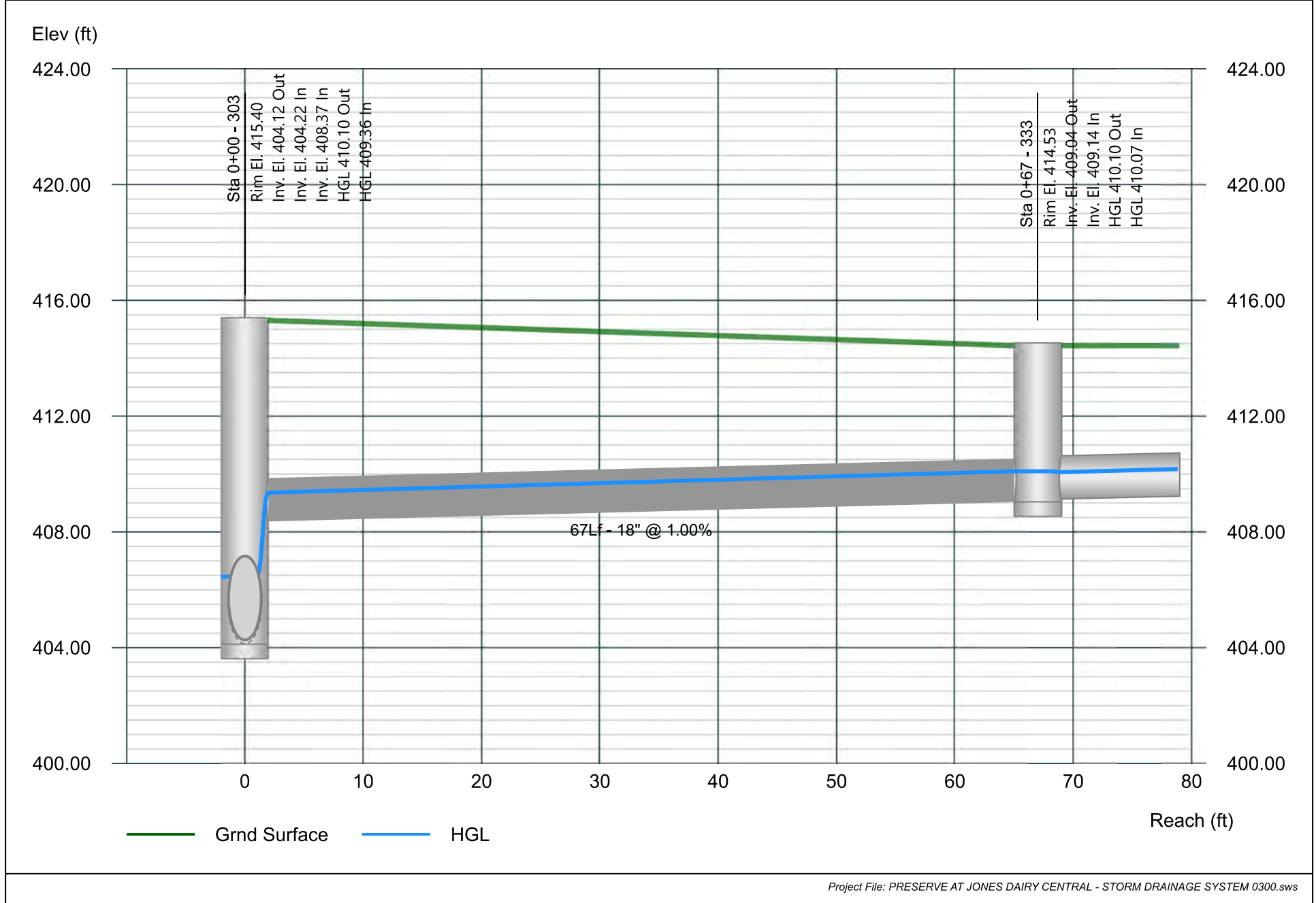
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

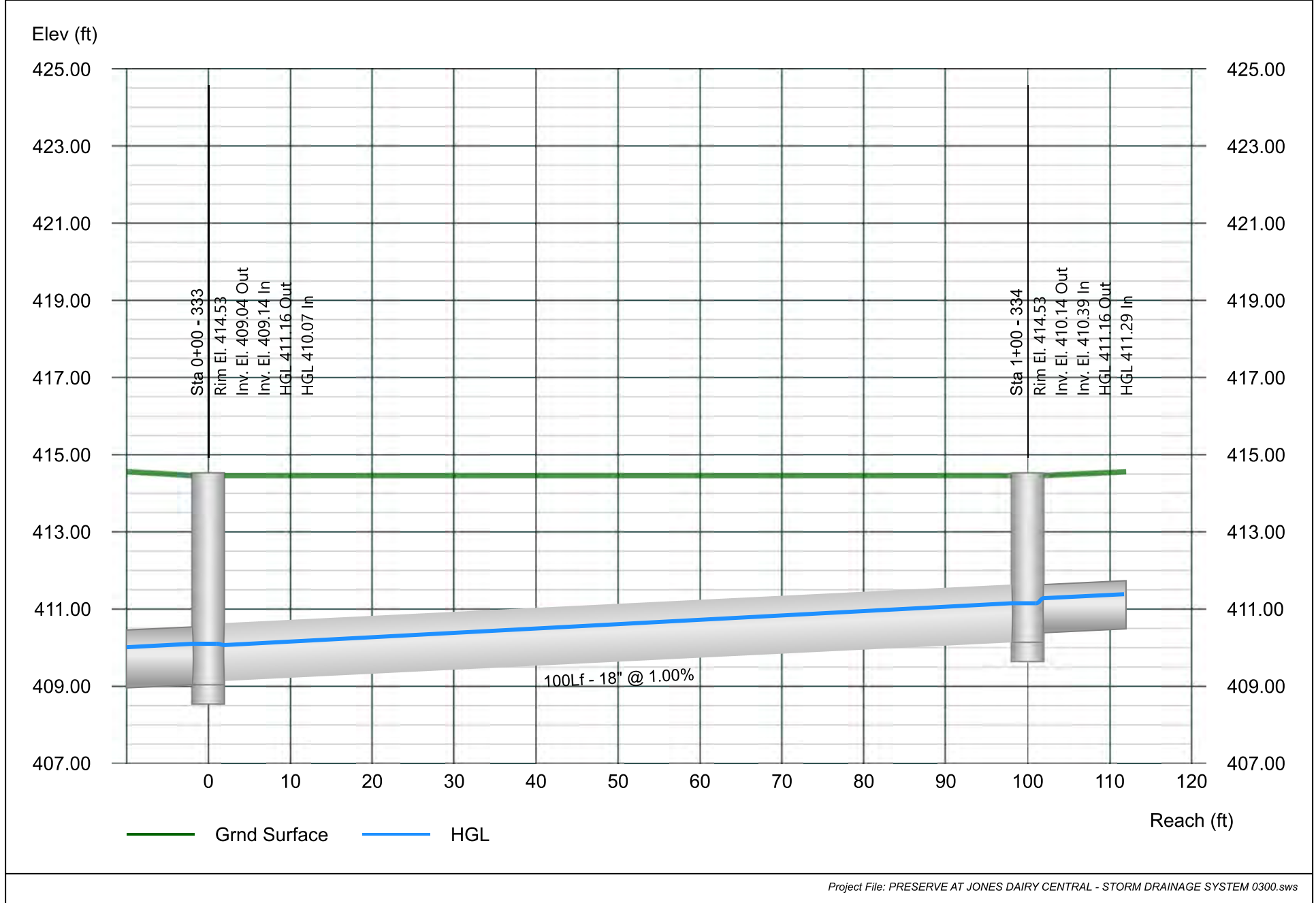
03-01-2024



Line 55 - 333 TO 303



Line 56 - 334 TO 333

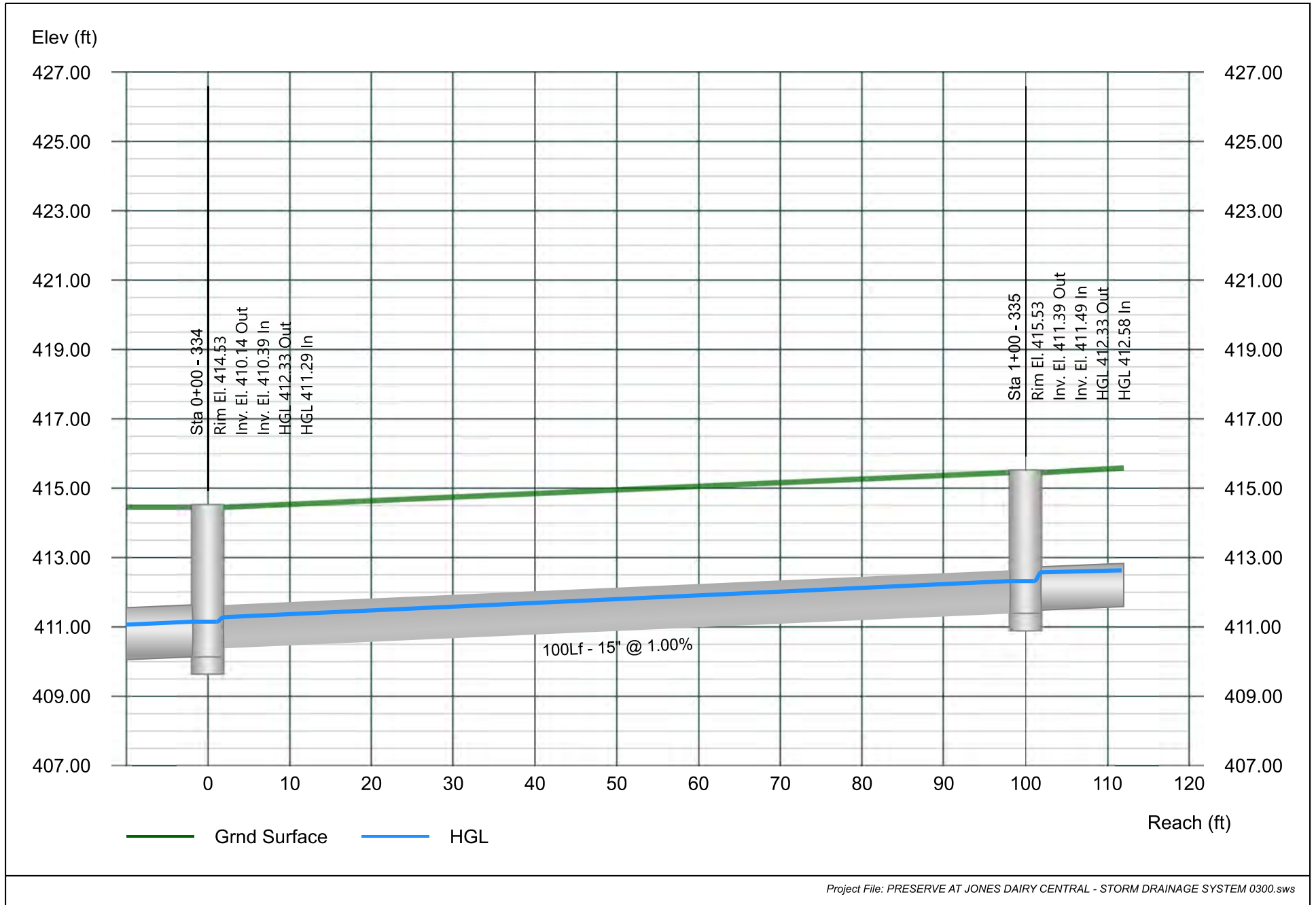


Line 57 - 335 TO 334

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

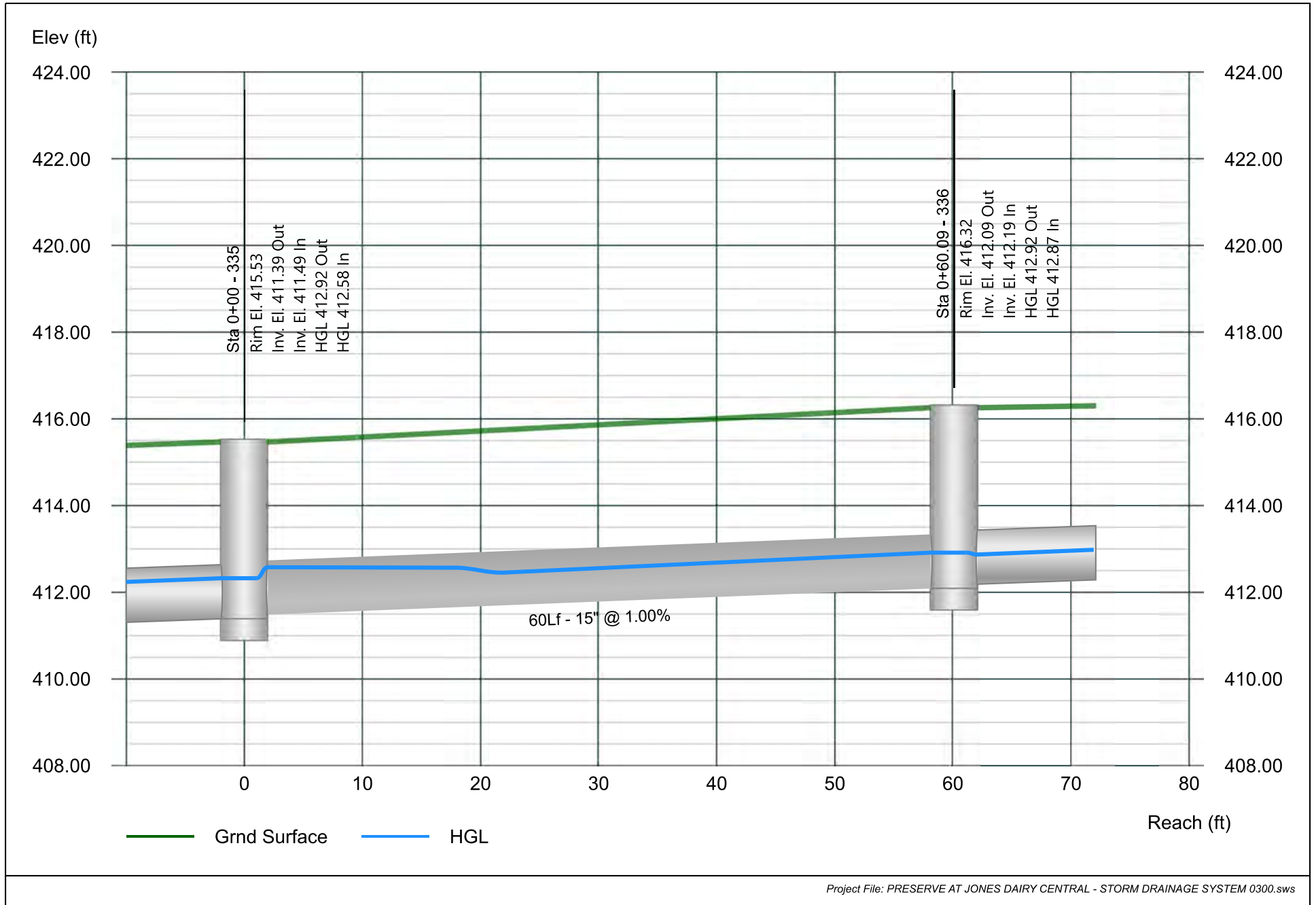


Line 58 - 336 TO 335

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

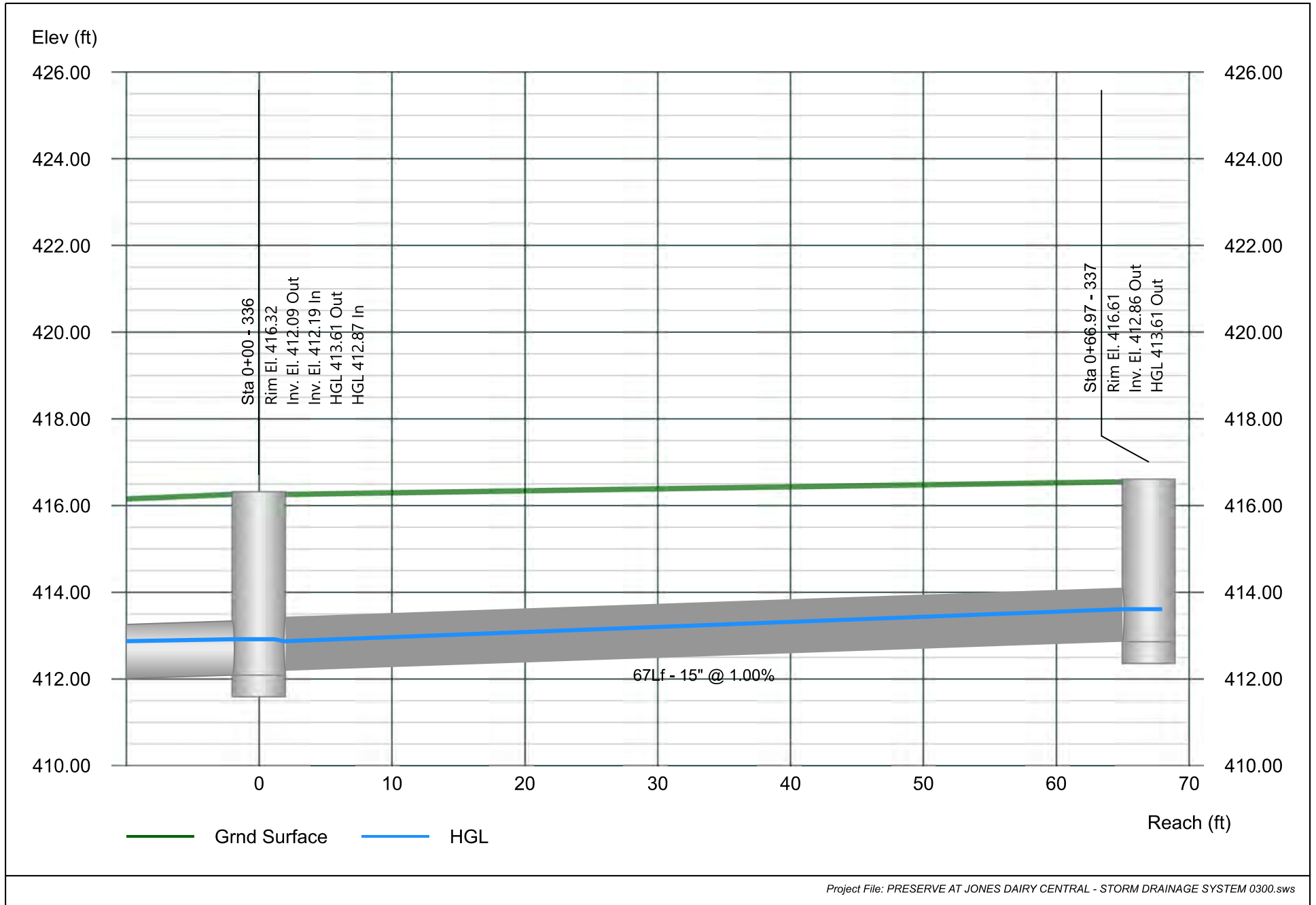


Line 59 - 337 TO 336

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

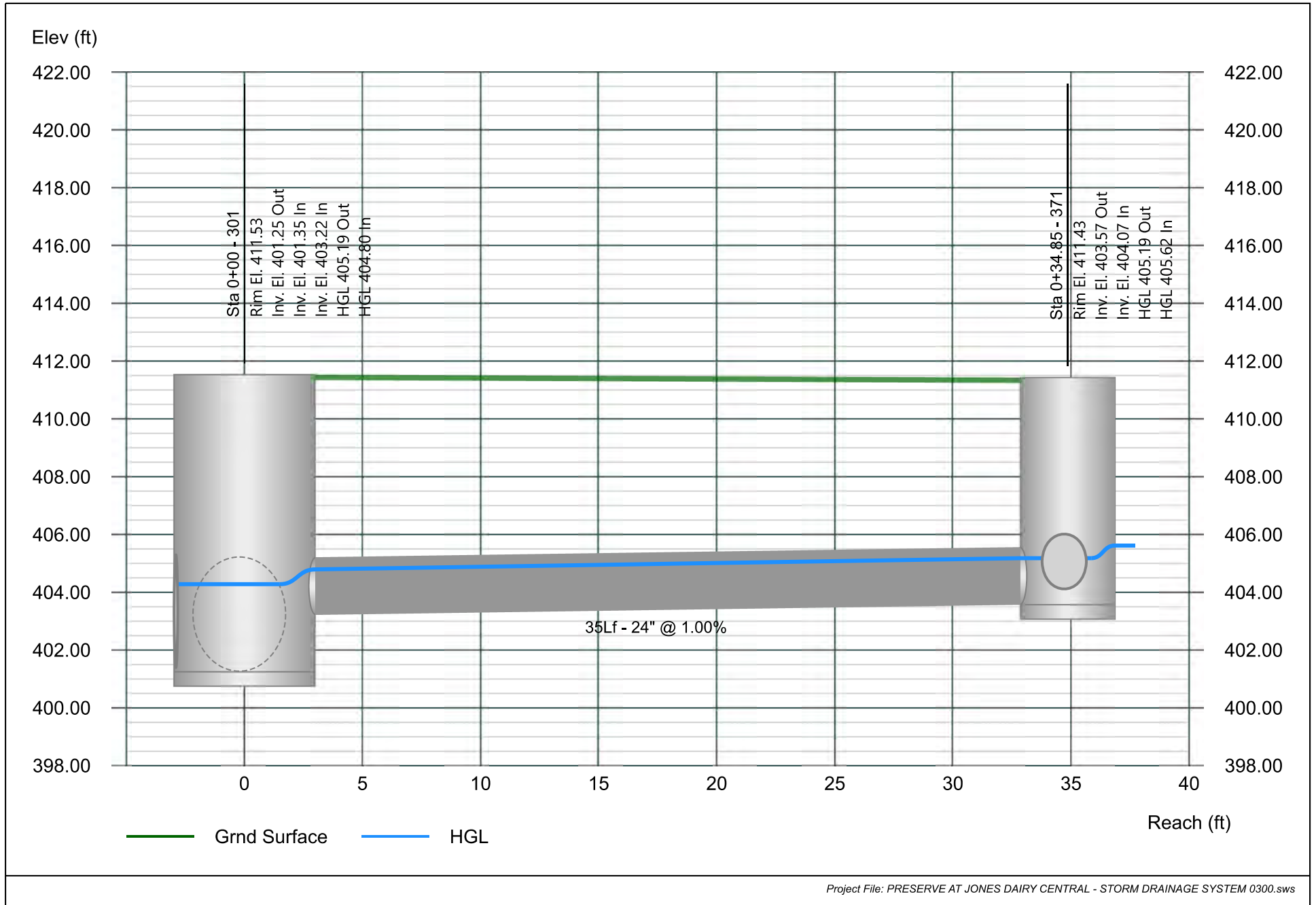


Line 60 - 371 TO 301

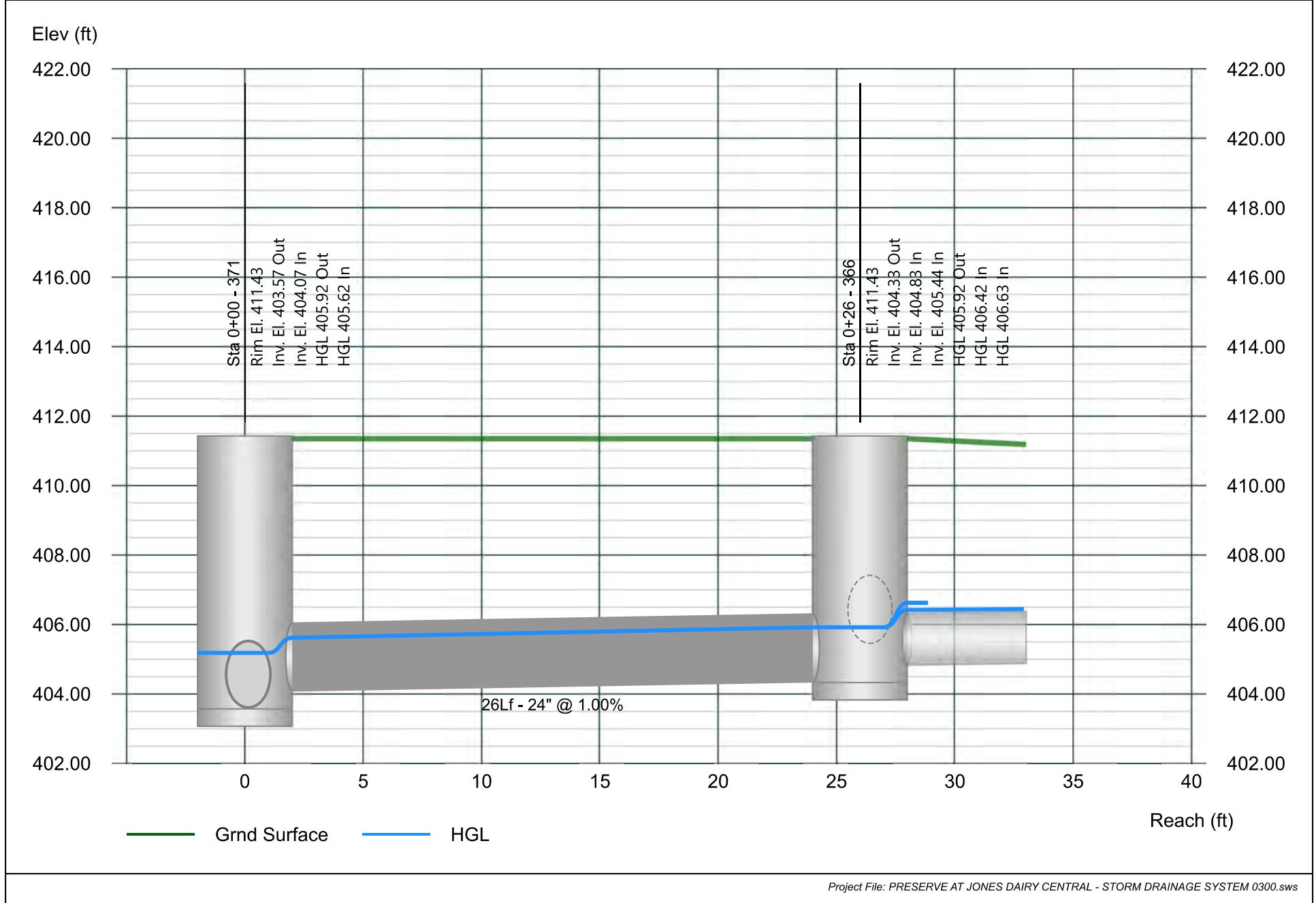
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

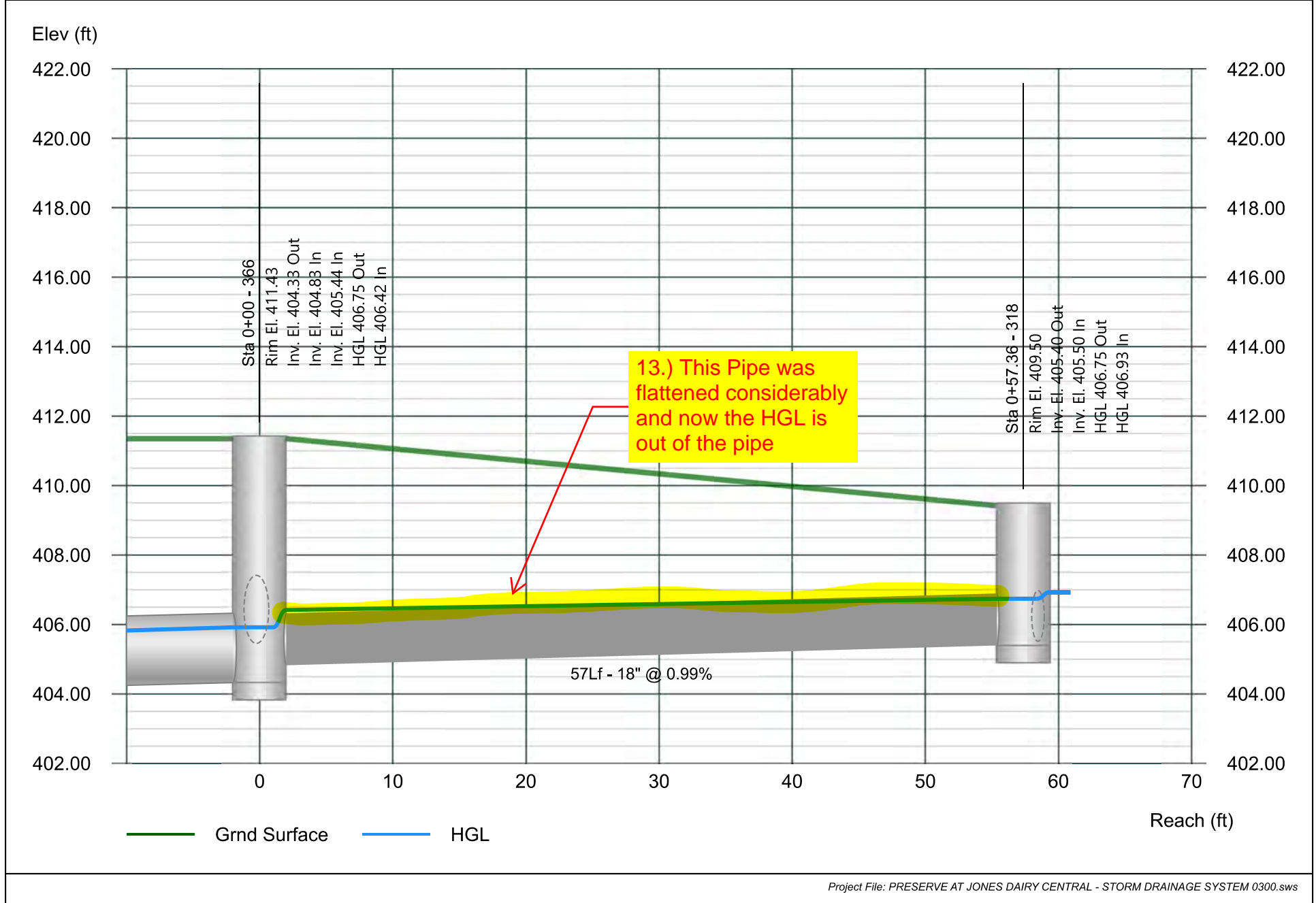
03-01-2024



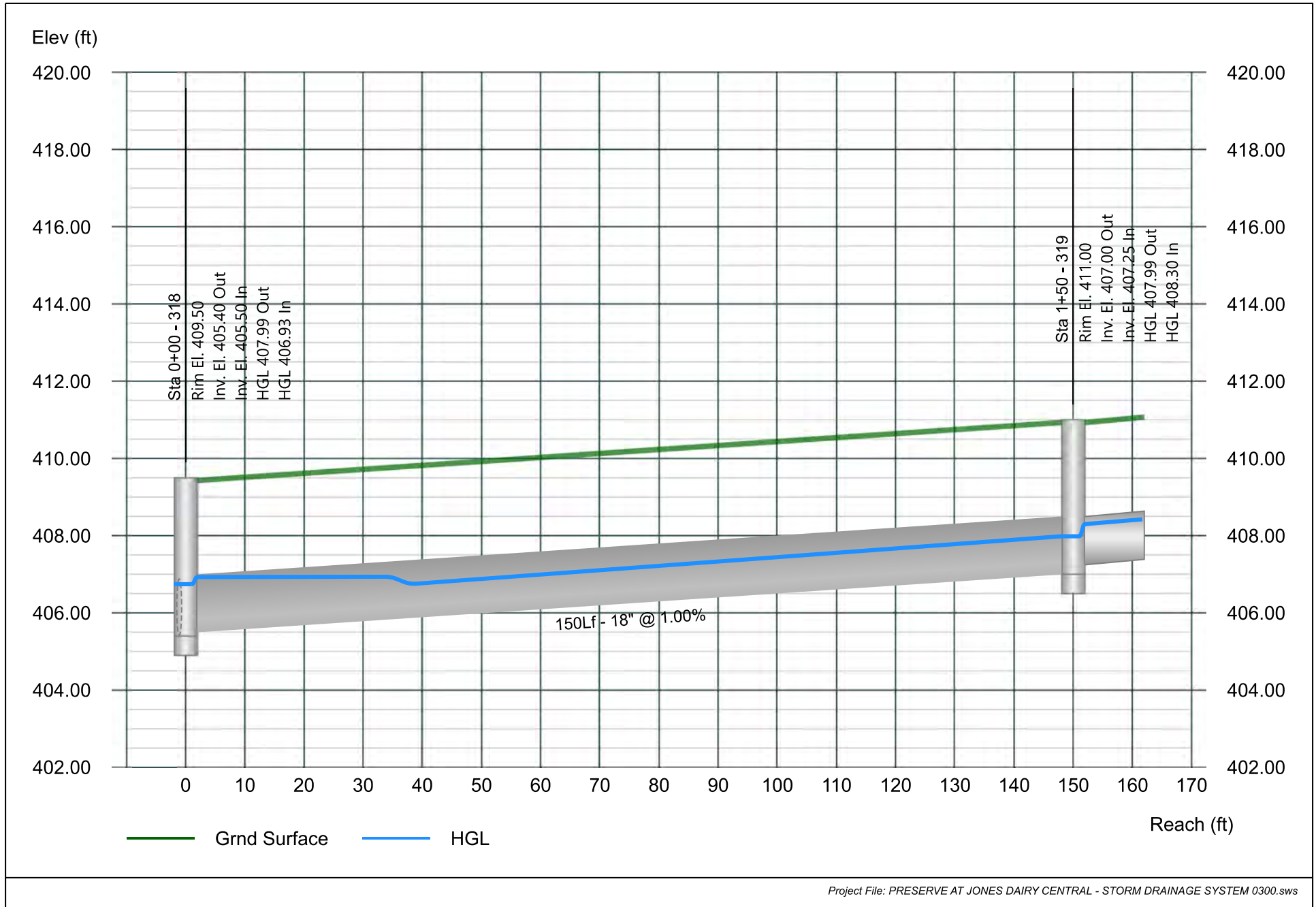
Line 61 - 366 TO 371



Line 62 - 318 TO 366



Line 63 - 319 TO 318

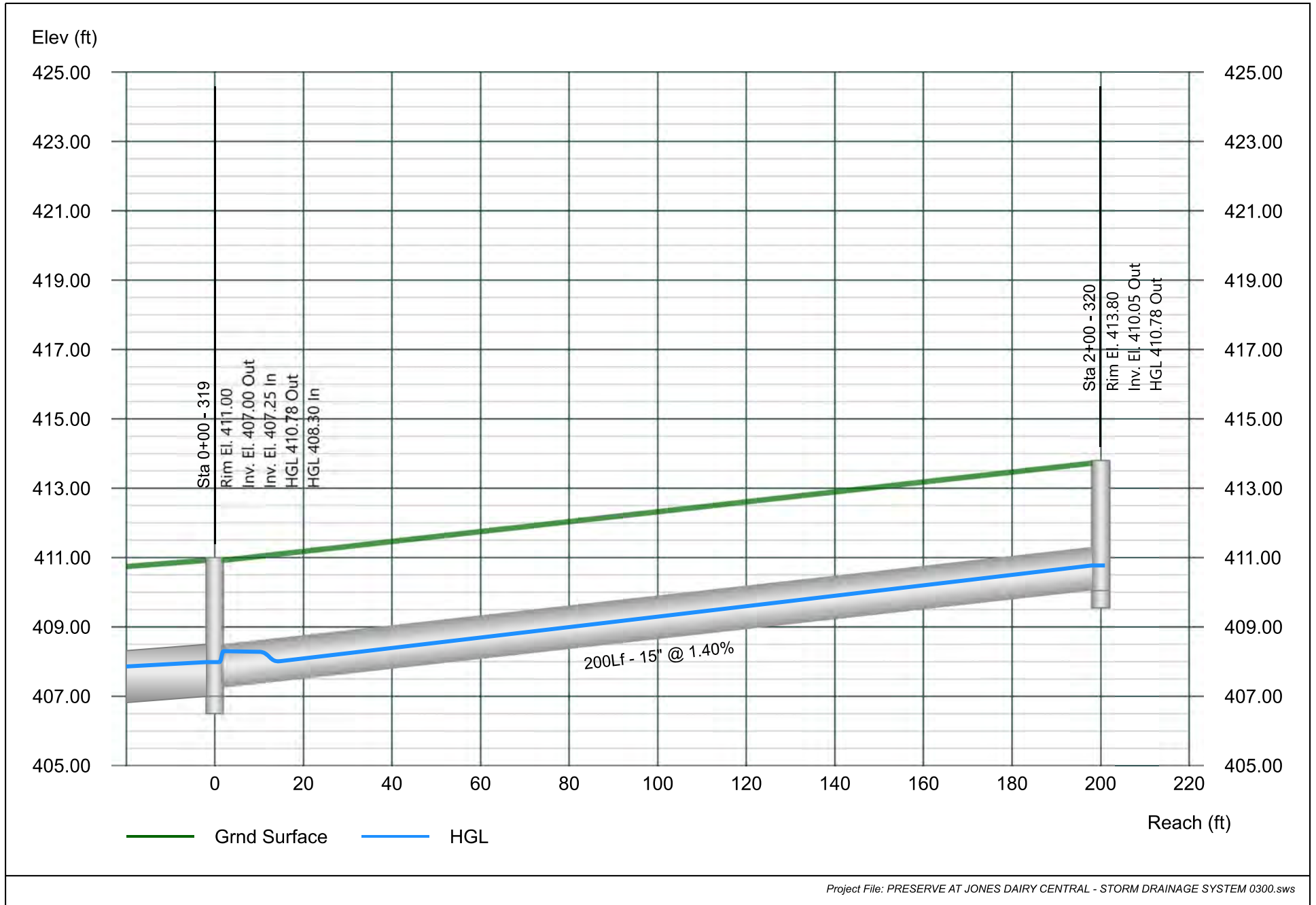


Line 64 - 320 TO 319

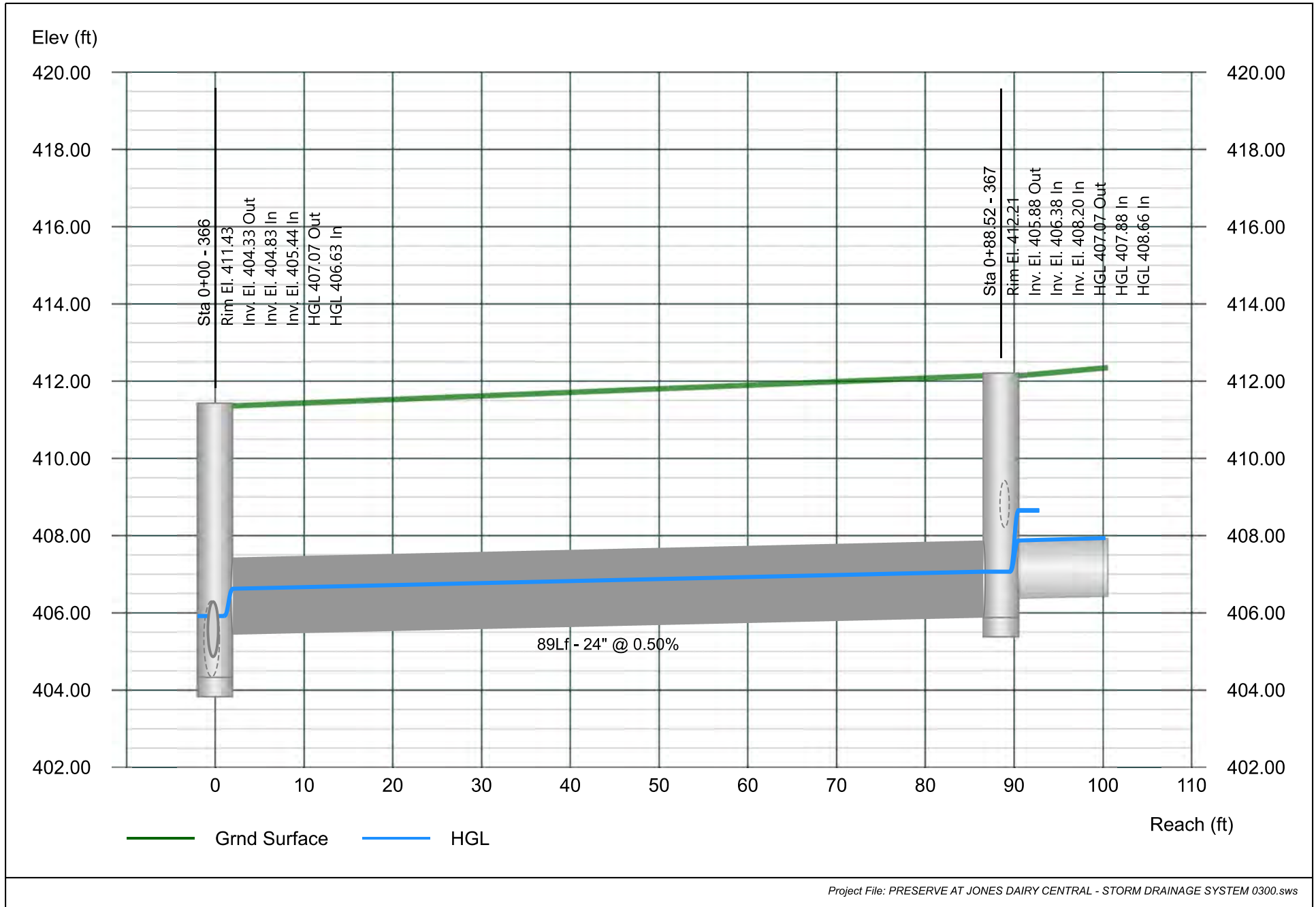
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

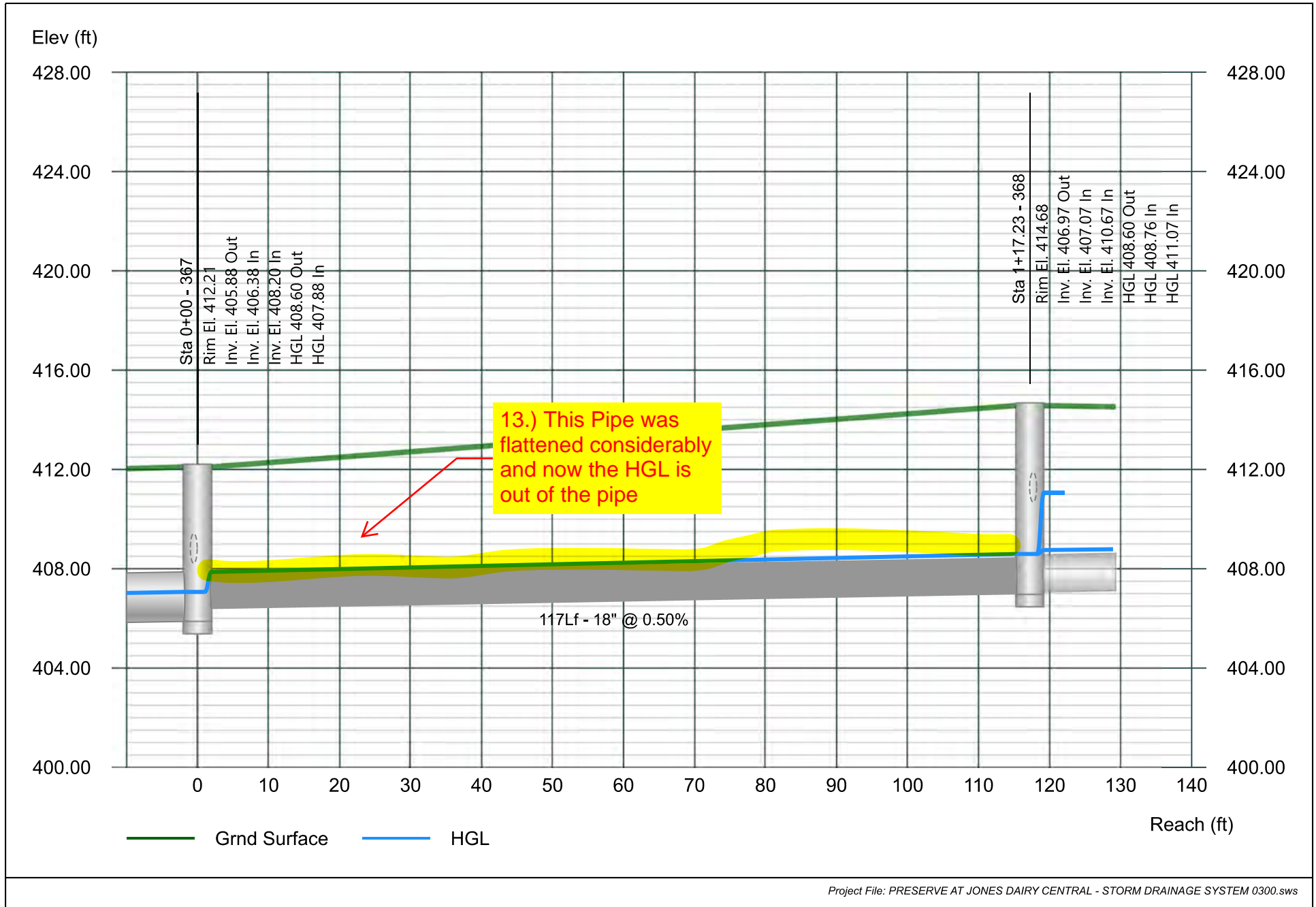
03-01-2024



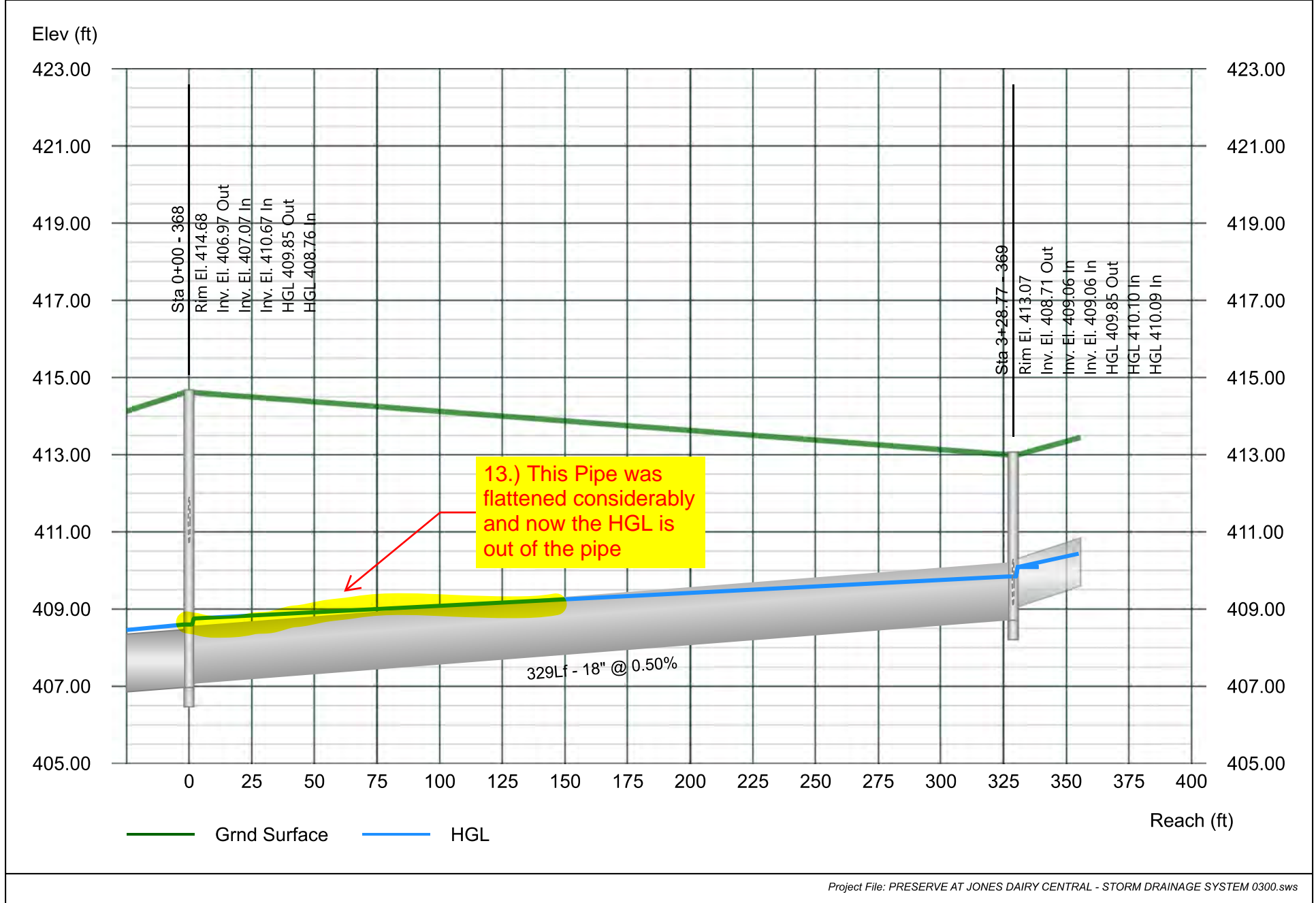
Line 65 - 367 TO 366



Line 66 - 368 TO 367



Line 67 - 369 TO 368

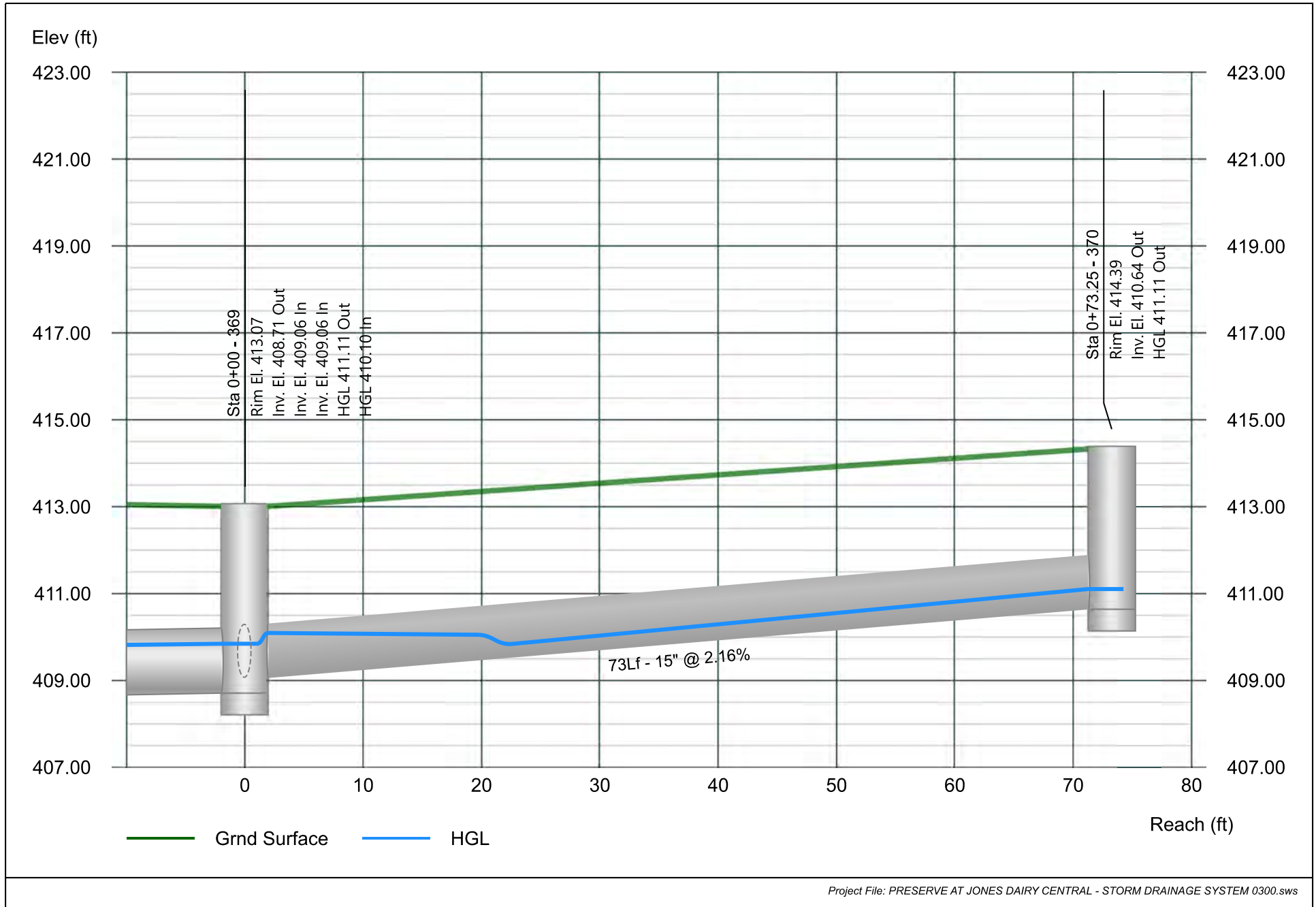


Line 68 - 370 TO 369

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

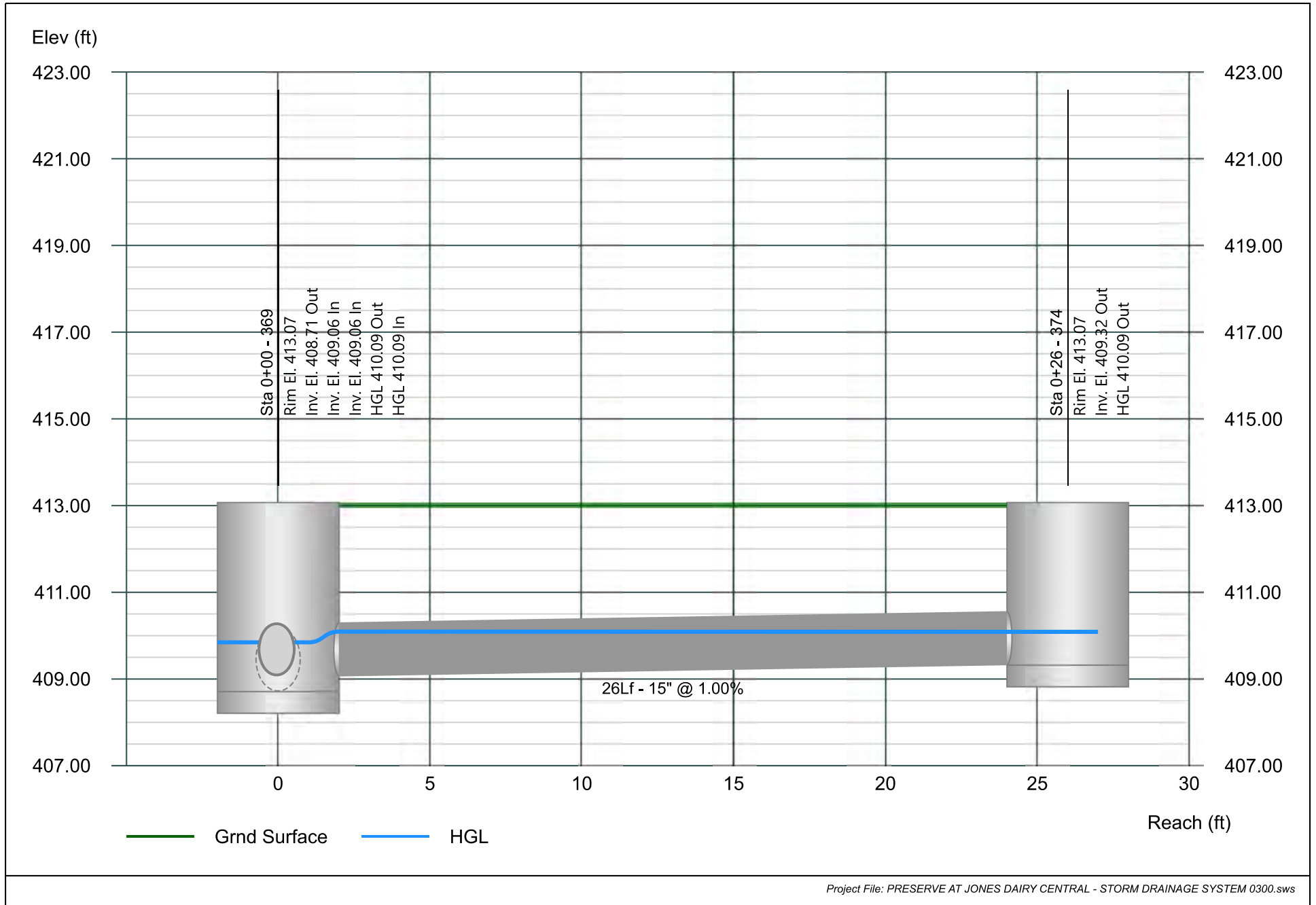


Line 69 - 374 TO 369

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

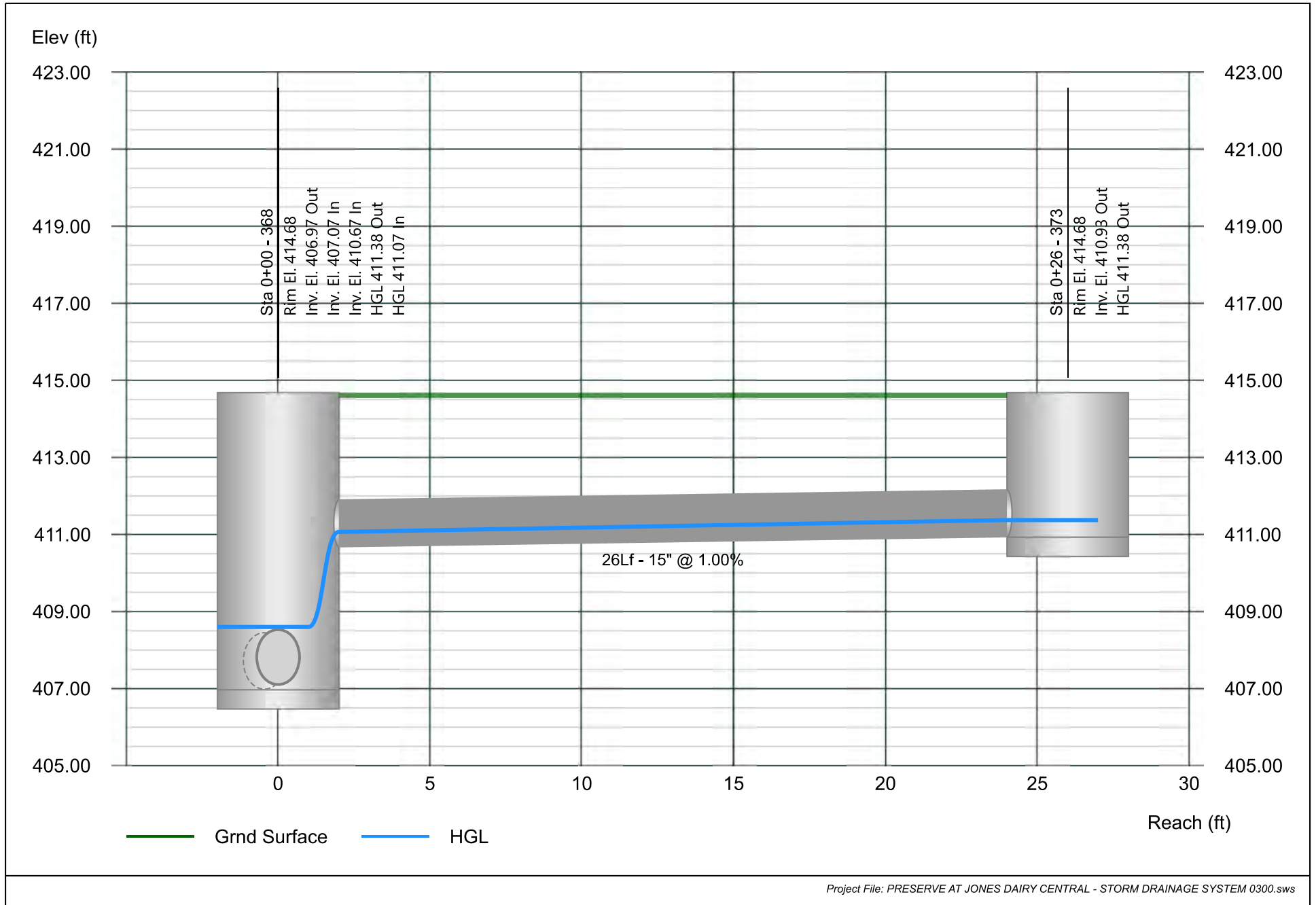


Line 70 - 383 TO 368

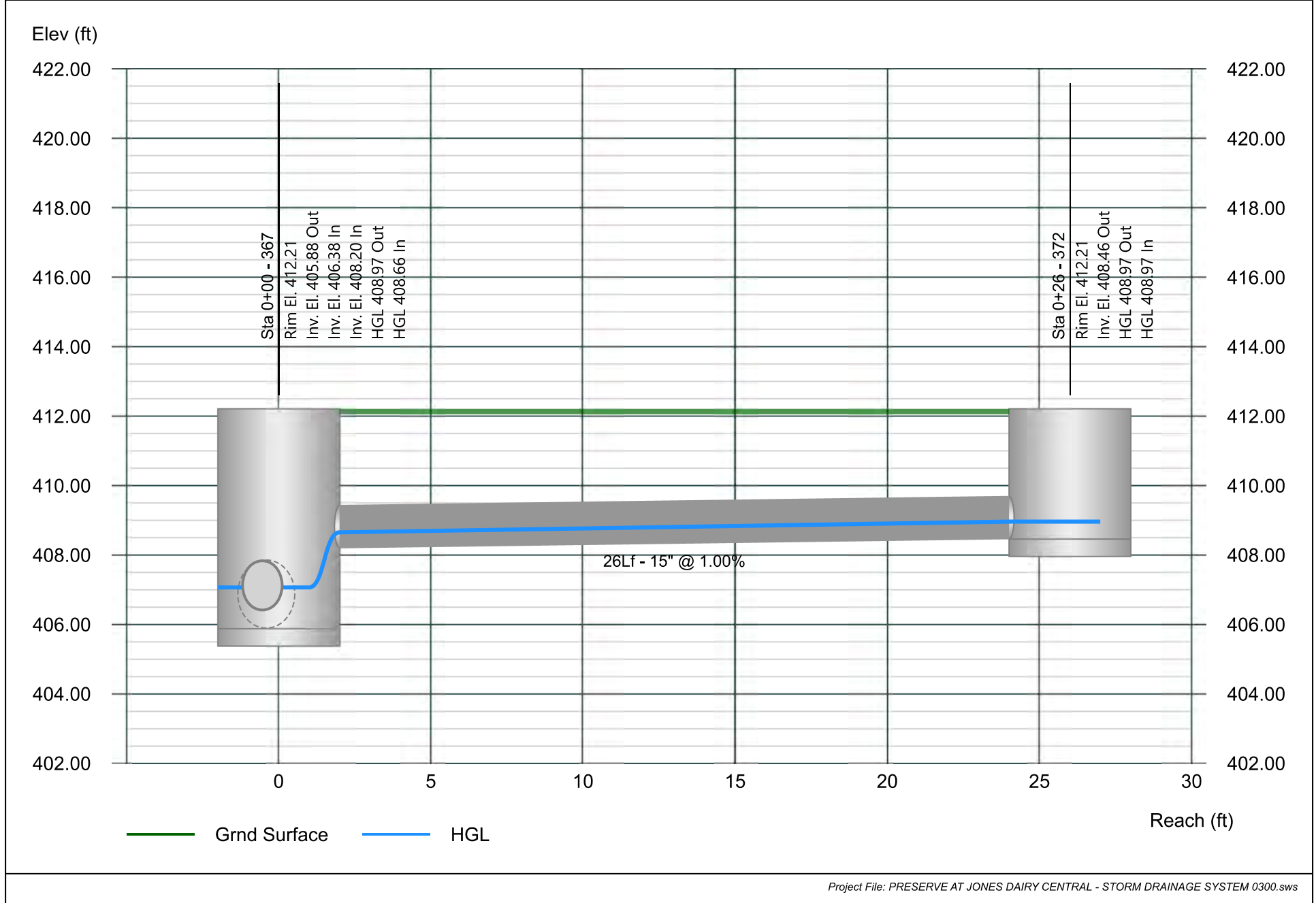
Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024



Line 71 - 372 TO 367



APPENDIX D – STORM SEWER GUTTER SPREAD CALCULATIONS

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
1	101	101	Comb.	0.070	0.80	4.00	0.22	0.04	0.25	0.01	3.10	1.69	
2	102	102	Comb.	0.080	0.80	4.00	0.26	0.14	0.37	0.03	3.50	1.97	
3	103	103	Comb.	0.180	0.70	4.00	0.50	0.07	0.58	0.00	2.46	2.46	
4	104	104	Comb.	0.170	0.70	4.00	0.48	0.19	0.59	0.07	3.68	2.19	
5	105	105	Comb.	0.250	0.70	4.00	0.70	0.45	0.96	0.19	4.38	3.14	
6	106	106	Comb.	0.360	0.70	4.00	1.01	0.04	0.89	0.16	4.25	2.97	
7	107	107	Comb.	0.140	0.70	4.00	0.39	0.13	0.48	0.04	3.43	1.91	
8	108	108	Comb.	0.320	0.70	4.00	0.90	0.00	0.77	0.13	4.03	2.69	
9	109	109	Comb.	0.300	0.07	4.00	0.08	0.00	0.08	0.00	2.17	0.97	
10	110	110	Comb.	0.590	0.70	4.00	1.65	0.01	1.30	0.37	4.93	3.84	
11	111	111	Comb.	0.100	0.70	4.00	0.28	0.01	0.28	0.01	2.90	1.54	
12	112	112	Comb.	0.100	0.70	4.00	0.28	0.00	0.27	0.01	3.18	1.73	
13	113	113	MH	0.001	0.80	4.00	0.00	....	....	....	....	....
14	114	114	Comb.	0.100	0.70	4.00	0.28	0.02	0.30	0.00	0.92	1.73	
15	115	115	MH	0.001	0.80	4.00	0.00	....	....	....	....	....
16	116	116	Comb.	0.140	0.70	4.00	0.39	0.00	0.38	0.01	2.87	1.52	
17	117	117	Comb.	0.120	0.70	4.00	0.34	0.00	0.32	0.02	3.33	1.85	
18	118	118	Comb.	0.110	0.70	4.00	0.31	0.00	0.29	0.02	3.25	1.79	
19	119	119	Comb.	0.120	0.70	4.00	0.34	0.02	0.33	0.02	3.38	1.89	
20	120	120	Comb.	0.270	0.70	4.00	0.76	0.19	0.95	0.00	3.21	3.21	
21	121	121	Comb.	0.250	0.70	4.00	0.70	0.08	0.78	0.00	2.96	2.96	
22	122	122	Comb.	0.140	0.70	4.00	0.39	0.18	0.57	0.00	2.46	2.46	
23	123	123	Comb.	0.200	0.70	4.00	0.56	0.51	0.89	0.18	4.70	3.57	
24	124	124	Comb.	0.170	0.70	4.00	0.48	0.10	0.52	0.06	3.85	2.44	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
25	125	125	Comb.	0.110	0.70	4.00	0.31	0.46	0.67	0.10	4.23	2.94	
26	126	126	Comb.	0.190	0.70	4.00	0.53	0.15	0.60	0.08	4.05	2.72	
27	127	127	Comb.	0.230	0.70	4.00	0.64	0.30	0.80	0.15	4.53	3.34	
28	128	128	Comb.	0.330	0.70	4.00	0.92	0.15	0.89	0.18	4.70	3.57	
29	129	129	Comb.	0.340	0.70	4.00	0.95	0.00	0.80	0.15	4.53	3.34	
30	130	130	Comb.	0.300	0.70	4.00	0.84	0.00	0.72	0.12	4.35	3.12	
31	131	131	Comb.	0.590	0.70	4.00	1.65	0.00	1.27	0.38	5.43	4.47	
32	132	132	Dp-Curb	0.330	0.65	4.00	0.86	0.00	0.86	0.00	1.37	1.69	
33	133	133	Dp-Curb	0.210	0.65	4.00	0.55	0.00	0.55	0.00	0.49	1.25	
34	134	134	Dp-Curb	0.410	0.65	4.00	1.07	0.00	1.07	0.00	1.90	1.95	
35	135	135	Dp-Curb	0.540	0.65	4.00	1.40	0.00	1.40	0.00	2.35	2.35	
36	136	136	Comb.	0.660	0.70	4.00	1.85	0.00	1.40	0.45	5.65	4.72	
37	137	137	Dp-Curb	0.500	0.65	4.00	1.30	0.00	1.30	0.00	2.23	2.23	
38	138	138	Dp-Curb	0.700	0.65	4.00	1.82	0.00	1.82	0.00	2.79	2.79	
39	139	139	Dp-Curb	0.650	0.65	4.00	1.69	0.00	1.69	0.00	2.66	2.66	
40	140	140	Comb.	0.100	0.70	4.00	0.28	0.00	0.28	0.00	0.92	1.73	
41	141	141	Comb.	0.360	0.70	4.00	1.01	0.10	0.92	0.19	4.53	3.34	
42	142	142	Comb.	0.280	0.70	4.00	0.78	0.00	0.68	0.10	4.05	2.72	
43	143	143	Comb.	0.470	0.70	4.00	1.32	0.00	1.06	0.26	4.78	3.67	
44	144	144	Comb.	0.250	0.70	4.00	0.70	0.00	0.62	0.08	3.90	2.52	
45	145	145	Comb.	0.110	0.70	4.00	0.31	0.00	0.29	0.02	3.20	1.76	
46	146	146	Dp-Curb	0.730	0.65	4.00	1.90	0.00	1.90	0.00	2.87	2.87	
47	147	147	Dp-Curb	0.520	0.65	4.00	1.35	0.00	1.35	0.00	2.29	2.29	
48	148	148	Comb.	0.370	0.70	4.00	1.04	0.00	1.04	0.00	3.46	3.46	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
49	149	149	Comb.	0.670	0.70	4.00	1.88	0.00	1.43	0.45	5.13	4.09	
50	150	150	Comb.	0.390	0.70	4.00	1.09	0.00	1.09	0.00	3.46	3.46	
51	151	151	Comb.	0.190	0.70	4.00	0.53	0.11	0.65	0.00	2.46	2.46	
52	152	152	Comb.	0.040	0.80	4.00	0.13	0.10	0.22	0.01	2.82	1.48	
53	153	153	Comb.	0.220	0.70	4.00	0.62	0.17	0.68	0.10	4.05	2.72	
54	154	154	Comb.	0.350	0.70	4.00	0.98	0.03	0.84	0.17	4.38	3.17	
55	155	155	Comb.	0.090	0.80	4.00	0.29	0.15	0.41	0.03	3.40	1.90	
56	156	156	Comb.	0.350	0.70	4.00	0.98	0.00	0.83	0.15	4.35	3.12	
57	157	157	Comb.	0.270	0.70	4.00	0.76	0.00	0.66	0.10	4.00	2.64	
58	158	158	Dp-Curb	8.600	0.50	4.00	17.20	0.00	17.20	0.00	5.03	5.03	
59	159	159	Comb.	0.210	0.70	4.00	0.59	0.00	0.53	0.06	3.70	2.24	
60	160	160	Comb.	0.290	0.70	4.00	0.81	0.00	0.71	0.11	4.10	2.77	
61	161	161	Dp-Curb	3.070	0.60	4.00	7.37	0.00	7.37	0.00	7.12	7.12	
62	162	162	Comb.	0.290	0.70	4.00	0.81	0.00	0.71	0.11	4.10	2.77	
63	163	163	Comb.	0.170	0.70	4.00	0.48	0.00	0.44	0.04	3.70	2.22	
64	164	164	Comb.	0.330	0.70	4.00	0.92	0.00	0.78	0.14	4.55	3.37	
65	165	165	Dp-Curb	0.340	0.60	4.00	0.82	0.00	0.82	0.00	1.26	1.63	
66	166	166	Dp-Curb	0.001	0.60	4.00	0.00	0.00	0.00	0.00	0.00	0.03	
67	167	167	Dp-Curb	1.850	0.55	4.00	4.07	0.00	4.07	0.00	4.79	4.79	
68	168	168	Dp-Curb	4.540	0.55	4.00	9.99	1.23	11.22	0.00	3.78	3.78	
69	169	169	MH	0.010	0.75	4.00	0.03	....	....	....	....	....
70	170	170	MH	0.350	0.65	4.00	0.91	....	....	....	....	....
71	171	171	MH	0.001	0.75	4.00	0.00	....	....	....	....	....
72	172	172	Dp-Grate	0.400	0.75	4.00	1.20	0.82	0.97	1.05	8.00	8.00	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
73	173	173	Comb.	0.340	0.75	4.00	1.02	0.00	0.86	0.16	4.40	3.17	
74	174	174	Comb.	0.340	0.75	4.00	1.02	0.26	1.28	0.00	3.96	3.96	
75	175	175	Comb.	0.360	0.75	4.00	1.08	0.23	1.05	0.26	5.10	4.07	
76	176	176	Comb.	0.410	0.75	4.00	1.23	0.00	1.00	0.23	5.00	3.94	
77	177	177	MH	0.001	0.75	4.00	0.00	....	....	....	....	....
78	178	178	Comb.	0.170	0.75	4.00	0.51	0.00	0.46	0.05	3.78	2.32	
79	179	179	Comb.	0.540	0.75	4.00	1.62	0.40	2.02	0.00	5.46	5.46	
80	180	180	Dp-Grate	0.470	0.75	4.00	1.41	0.35	1.35	0.40	4.80	4.80	
81	181	181	Dp-Grate	0.470	0.75	4.00	1.41	0.21	1.27	0.35	4.80	4.80	
82	182	182	Dp-Curb	0.230	0.65	4.00	0.60	0.00	0.60	0.00	0.65	1.32	
83	188	188	Dp-Curb	0.220	0.60	4.00	0.53	0.00	0.53	0.00	0.44	1.22	
84	187	187	Dp-Curb	0.240	0.65	4.00	0.62	0.00	0.62	0.00	0.72	1.36	
85	186	186	Dp-Curb	0.790	0.60	4.00	1.90	0.00	1.90	0.00	2.87	2.87	
86	185	185	Dp-Curb	0.590	0.60	4.00	1.42	0.00	1.42	0.00	2.36	2.36	
87	184	184	Dp-Curb	0.430	0.60	4.00	1.03	0.00	1.03	0.00	1.82	1.91	
88	183	183	Dp-Curb	0.300	0.60	4.00	0.72	0.00	0.72	0.00	1.00	1.50	
89	189	189	Dp-Grate	0.470	0.75	4.00	1.41	0.03	0.78	0.66	7.50	7.50	
90	190	190	MH	0.010	0.75	4.00	0.03	....	....	....	....	....
91	191	187	MH	0.001	0.80	4.00	0.00	....	....	....	....	....
92	192	192	Dp-Grate	0.400	0.75	4.00	1.20	0.31	1.22	0.29	5.00	5.00	
93	193	193	Dp-Grate	0.400	0.75	4.00	1.20	0.40	1.30	0.31	5.20	5.20	
94	194	194	Dp-Grate	0.630	0.75	4.00	1.89	0.00	1.49	0.40	5.40	5.40	
95	195	191	MH	0.001	0.75	4.00	0.00	....	....	....	....	....
96	196	196	Comb.	0.340	0.70	4.00	0.95	0.00	0.95	0.00	3.21	3.21	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
97	197	197	Comb.	1.240	0.70	4.00	3.47	0.49	3.96	0.00	6.46	6.46	
98	198	198	Comb.	0.740	0.70	4.00	2.07	0.00	1.58	0.49	4.85	3.74	
99	199	199	Dp-Curb	0.380	0.65	4.00	0.99	0.00	0.99	0.00	1.71	1.85	
100	200	200	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00	0.51	
101	201	201	Dp-Curb	0.370	0.65	4.00	0.96	0.00	0.96	0.00	1.64	1.82	
102	202	202	Dp-Curb	0.280	0.65	4.00	0.73	0.00	0.73	0.00	1.02	1.51	
103	203	203	Dp-Curb	0.050	0.60	4.00	0.12	0.00	0.12	0.00	0.00	0.45	
104	204	204	Dp-Curb	0.370	0.65	4.00	0.96	0.00	0.96	0.00	1.64	1.82	
105	205	205	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00	0.51	
106	206	206	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00	0.51	
107	207	207	Dp-Grate	0.660	0.70	4.00	1.85	0.81	2.65	0.00	5.97	5.97	
108	208	208	Dp-Grate	0.410	0.75	4.00	1.23	0.28	0.71	0.81	6.50	6.50	
109	209	209	Dp-Grate	0.220	0.75	4.00	0.66	0.00	0.38	0.28	5.00	5.00	
110	210	210	MH	0.001	0.70	4.00	0.00	....	....	....	....	....
111	211	211	Dp-Grate	0.380	0.75	4.00	1.14	0.00	0.93	0.21	4.20	4.20	
112	212	212	Dp-Curb	0.240	0.65	4.00	0.62	0.00	0.62	0.00	0.72	1.36	
113	213	213	Dp-Grate	0.470	0.75	4.00	1.41	0.00	1.13	0.28	4.60	4.60	
114	213A	213A	Dp-Curb	0.470	0.75	4.00	1.41	0.00	1.41	0.00	5.09	5.09	
115	214	214	Dp-Grate	0.320	0.75	4.00	0.96	0.00	0.53	0.43	6.00	6.00	
116	215	207	Comb.	0.270	0.75	4.00	0.81	0.00	0.81	0.00	2.96	2.96	
117	216	216	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00	0.51	
118	217	217	Dp-Curb	0.180	0.60	4.00	0.43	0.00	0.43	0.00	0.13	1.06	
119	218	218	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	2.21	2.21	
120	219	219	Dp-Curb	0.250	0.65	4.00	0.65	0.00	0.65	0.00	0.80	1.40	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
121	220	220	Dp-Curb	0.140	0.65	4.00	0.36	0.00	0.36	0.00	0.00	0.95	
122	221	221	Dp-Curb	1.120	0.60	4.00	2.69	0.00	2.69	0.00	3.62	3.62	
123	222	222	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00	0.51	
124	223	223	Dp-Curb	0.750	0.65	4.00	1.95	0.00	1.95	0.00	2.92	2.92	
125	314	314	Comb.	0.300	0.70	4.00	0.84	0.00	0.84	0.00	2.96	2.96	
126	213B	213B	Dp-Curb	0.260	0.60	4.00	0.62	0.00	0.62	0.00	5.89	5.89	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
1	301	301	Comb.	0.110	0.65	4.00	0.29	0.00	0.27	0.01	3.00	1.62	
2	321	321	Comb.	0.270	0.65	4.00	0.70	0.00	0.62	0.09	3.90	2.52	
3	302	302	Comb.	0.030	0.65	4.00	0.08	0.00	0.08	0.00	2.20	0.99	
4	322	322	Comb.	0.130	0.65	4.00	0.34	0.02	0.36	0.00	1.42	1.86	
5	323	323	Comb.	0.580	0.65	4.00	1.51	0.20	1.71	0.00	4.71	4.71	
6	324	324	Comb.	0.390	0.65	4.00	1.01	0.13	0.94	0.20	4.80	3.69	
7	325	325	Comb.	0.330	0.65	4.00	0.86	0.00	0.74	0.13	4.38	3.14	
8	326	326	MH	0.001	0.65	4.00	0.00	....	....	....	....	....
9	327	327	Comb.	0.570	0.65	4.00	1.48	0.00	1.48	0.00	4.46	4.46	
10	328	328	Comb.	0.920	0.65	4.00	2.39	0.00	2.39	0.00	5.96	5.96	
11	329	329	MH	0.001	0.65	4.00	0.00	....	....	....	....	....
12	330	330	Dp-Curb	6.620	0.40	4.00	10.59	0.00	10.59	0.00	3.63	3.63	
13	332	332	Comb.	0.230	0.65	4.00	0.60	0.00	0.53	0.06	3.90	2.52	
14	331	331	Comb.	0.110	0.65	4.00	0.29	0.06	0.33	0.02	3.33	1.85	
15	303	303	Comb.	0.001	0.65	4.00	0.00	0.00	0.00	0.00	0.70	0.28	
16	304	304	Comb.	0.060	0.65	4.00	0.16	0.00	0.16	0.00	2.55	1.26	
17	305	305	Comb.	0.190	0.65	4.00	0.49	0.00	0.50	0.00	2.21	2.21	
18	306	306	Comb.	0.030	0.65	4.00	0.08	0.00	0.08	0.00	2.30	1.08	
19	307	307	Comb.	0.170	0.65	4.00	0.44	0.19	0.63	0.00	3.92	3.92	
20	308	308	Comb.	0.210	0.65	4.00	0.55	0.00	0.55	0.00	3.42	3.42	
21	309	309	Comb.	0.140	0.65	4.00	0.36	0.10	0.42	0.04	3.65	2.17	
22	363	363	Comb.	0.080	0.65	4.00	0.21	0.00	0.20	0.00	2.92	1.54	
23	310	310	Comb.	0.280	0.65	4.00	0.73	0.03	0.66	0.10	4.28	2.99	
24	312	312	Comb.	0.090	0.65	4.00	0.23	0.17	0.37	0.03	3.50	1.97	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
25	364	364	Comb.	0.260	0.65	4.00	0.68	0.35	0.86	0.17	4.20	2.92	
26	365	365	Comb.	0.600	0.65	4.00	1.56	0.04	1.25	0.35	4.85	3.77	
27	313	313	Comb.	0.540	0.65	4.00	1.40	0.00	1.11	0.29	5.23	4.22	
28	360	360	Comb.	0.100	0.65	4.00	0.26	0.00	0.25	0.01	2.82	1.48	
29	361	361	Comb.	0.430	0.65	4.00	1.12	0.00	0.93	0.19	4.33	3.09	
30	362	362	Dp-Curb	0.570	0.50	4.00	1.14	0.00	1.14	0.00	4.08	4.08	
31	356	356	MH	0.001	0.65	4.00	0.00	....	....	....	....	....
32	358	358	Dp-Curb	0.310	0.60	4.00	0.74	0.00	0.74	0.00	1.07	1.53	
33	359	359	Dp-Curb	0.220	0.60	4.00	0.53	0.00	0.53	0.00	0.44	1.22	
34	355	355	Comb.	0.630	0.65	4.00	1.64	0.00	1.64	0.00	4.71	4.71	
35	338	338	Comb.	0.370	0.65	4.00	0.96	0.19	1.16	0.00	3.71	3.71	
36	339	339	Comb.	0.140	0.65	4.00	0.36	0.12	0.49	0.00	2.21	2.21	
37	340	340	Comb.	0.320	0.65	4.00	0.83	0.06	0.77	0.12	4.10	2.77	
38	341	341	Comb.	0.230	0.65	4.00	0.60	0.00	0.54	0.06	3.63	2.12	
39	342	342	Comb.	0.180	0.65	4.00	0.47	0.00	0.43	0.04	3.68	2.19	
40	343	343	Comb.	0.080	0.65	4.00	0.21	0.02	0.22	0.01	3.00	1.62	
41	343A	343A	Comb.	0.120	0.65	4.00	0.31	0.00	0.30	0.02	3.28	1.80	
42	344	344	Comb.	0.090	0.65	4.00	0.23	0.03	0.26	0.01	3.13	1.69	
43	345	345	Comb.	0.130	0.65	4.00	0.34	0.07	0.38	0.03	3.53	2.00	
44	346	346	Comb.	0.230	0.65	4.00	0.60	0.05	0.58	0.07	4.08	2.74	
45	347	347	Comb.	0.170	0.65	4.00	0.44	0.06	0.46	0.05	3.75	2.32	
46	348	348	Comb.	0.220	0.65	4.00	0.57	0.01	0.52	0.06	3.88	2.44	
47	349	349	Comb.	0.080	0.65	4.00	0.21	0.00	0.20	0.01	2.87	1.52	
48	354	354	Comb.	0.080	0.65	4.00	0.21	0.00	0.20	0.01	2.87	1.52	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Spread Report

Project Name: Enter Project Name...

Stormwater Studio 2024 v 3.0.0.33

03-01-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
49	353	353	Comb.	0.090	0.65	4.00	0.23	0.00	0.23	0.01	2.98	1.59	
50	351	351	Comb.	0.190	0.65	4.00	0.49	0.00	0.49	0.00	2.21	2.21	
51	315	315	MH	0.001	0.65	4.00	0.00	....	....	....	....	....
52	316	316	Dp-Curb	0.550	0.60	4.00	1.32	0.00	1.32	0.00	4.87	4.87	
53	317	317	Dp-Curb	0.700	0.60	4.00	1.68	0.00	1.68	0.00	5.72	5.72	
54	350	350	Comb.	0.430	0.65	4.00	1.12	0.00	0.92	0.19	4.78	3.64	
55	333	333	Dp-Curb	0.170	0.60	4.00	0.41	0.00	0.41	0.00	0.05	1.02	
56	334	334	Dp-Curb	0.370	0.60	4.00	0.89	0.00	0.89	0.00	1.45	1.73	
57	335	335	Dp-Curb	0.270	0.60	4.00	0.65	0.00	0.65	0.00	0.79	1.40	
58	336	336	Dp-Curb	0.170	0.60	4.00	0.41	0.00	0.41	0.00	0.05	1.02	
59	337	337	Dp-Curb	0.760	0.60	4.00	1.82	0.00	1.82	0.00	2.80	2.80	
60	371	371	Comb.	0.160	0.65	4.00	0.42	0.12	0.54	0.00	2.21	2.21	
61	366	366	Comb.	0.300	0.65	4.00	0.78	0.06	0.84	0.00	2.96	2.96	
62	318	318	Dp-Curb	0.470	0.60	4.00	1.13	0.00	1.13	0.00	2.03	2.03	
63	319	319	Dp-Curb	0.770	0.60	4.00	1.85	0.00	1.85	0.00	2.82	2.82	
64	320	320	Dp-Curb	0.710	0.60	4.00	1.70	0.00	1.70	0.00	2.67	2.67	
65	367	367	Comb.	0.210	0.65	4.00	0.55	0.09	0.57	0.06	3.63	2.12	
66	368	368	Comb.	0.280	0.65	4.00	0.73	0.00	0.64	0.09	3.78	2.34	
67	369	369	Comb.	0.660	0.65	4.00	1.72	0.06	1.77	0.00	4.96	4.96	
68	370	370	Comb.	0.270	0.65	4.00	0.70	0.00	0.65	0.06	3.28	1.80	
69	374	374	Comb.	0.280	0.65	4.00	0.73	0.00	0.73	0.00	2.71	2.71	
70	373	373	Comb.	0.250	0.65	4.00	0.65	0.00	0.58	0.07	3.65	2.17	
71	372	372	Comb.	0.320	0.65	4.00	0.83	0.07	0.78	0.12	4.05	2.69	

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Spread Report

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)	
1	401	401	MH	0.001	0.75	4.00	0.00	....	....	....	....	....
2	402	402	Comb.	0.100	0.90	4.00	0.36	0.00	0.36	0.00	1.42	1.86	
3	403	403	Comb.	0.270	0.75	4.00	0.81	0.00	0.81	0.00	2.96	2.96	
4	404	404	Comb.	0.700	0.60	4.00	1.68	0.00	1.68	0.00	4.71	4.71	
5	405	405	Hdwall	0.870	0.60	4.00	2.09	0.00	2.09	0.00	....	....
6	406	406	Hdwall	17.200	0.40	4.00	27.52	0.00	27.52	0.00	....	....

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 10-yrs.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0400.sws