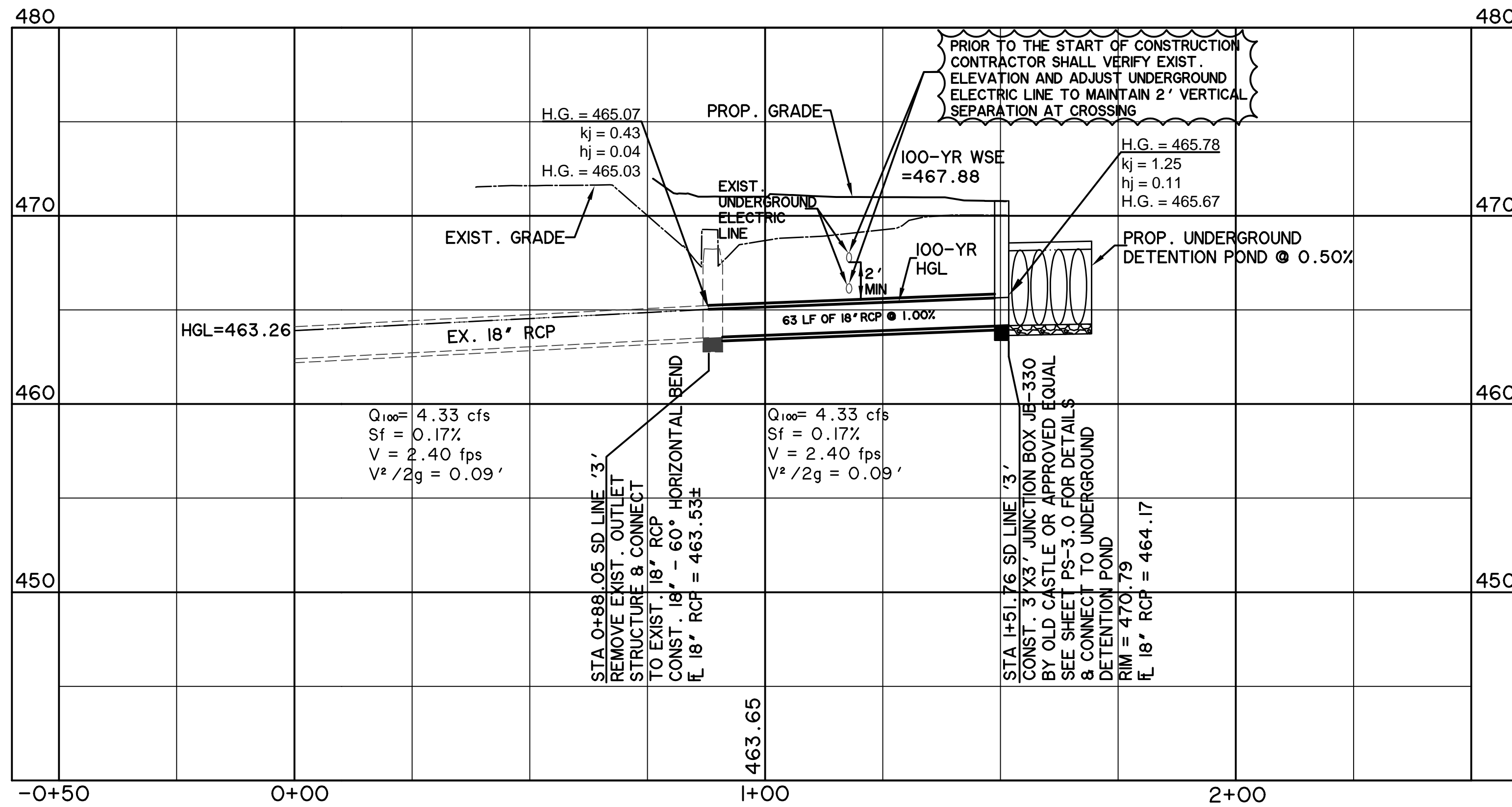


# PRIVATE S.D. LINE '3'

# STORM DRAIN CALCULATIONS

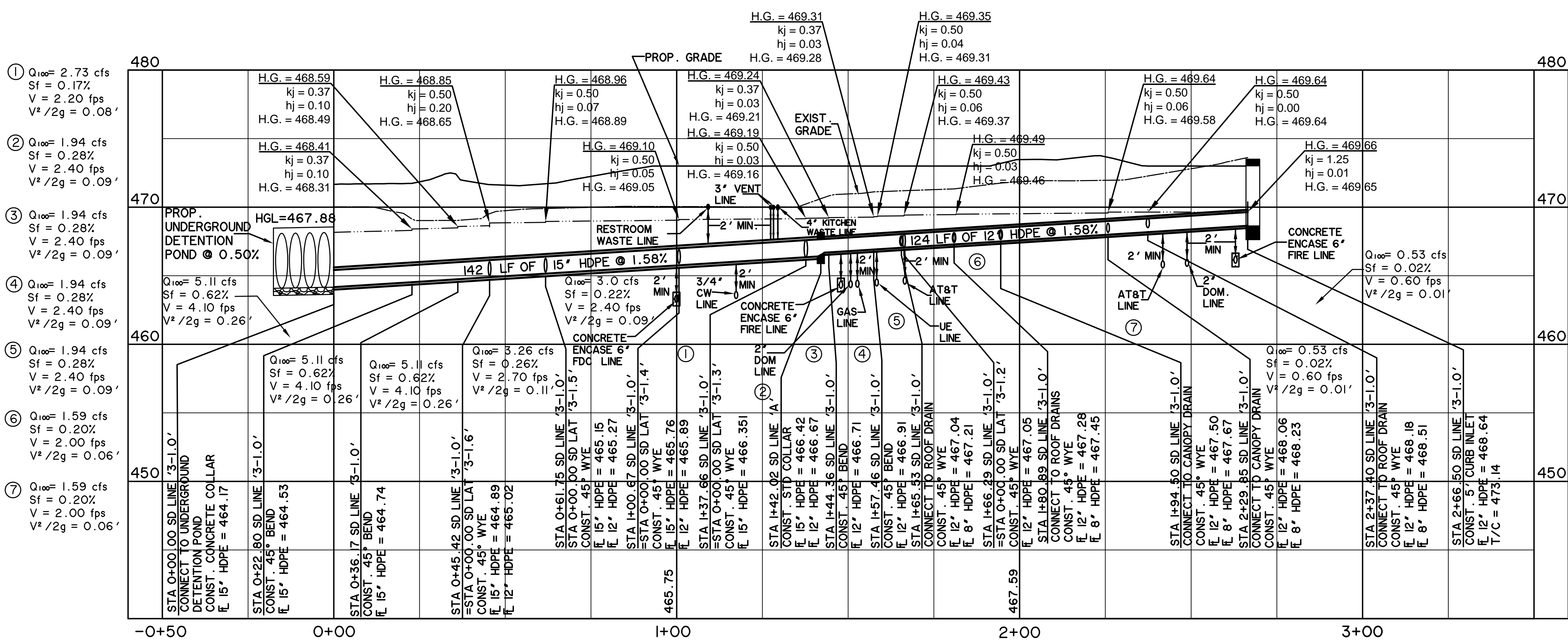


FROM	TO	LENGTH (FT)	C&A	INLET TIME (min.)	TOTAL INTERCEPTED C&A	TIME AT UPSTREAM OF REACH (min)	DESIGN STORM FREQUENCY (yrs)	RAINFALL INTENSITY (in/hr)	INTERCEPTED FLOW (cfs)	STORM DRAIN DIAMETER (in)	VELOCITY (ft/s)	SLOPE OF FRICTION GRADIENT (ft/ft)	STRUCTURE LOSS COEFFICIENT	STRUCTURE LOSS AT UPSTREAM OF REACH	FLOW TIME IN DRAIN (min)	TIME AT DOWNSTREAM OF REACH (min)	H.G. AT UPSTREAM OF REACH (ft)
SD LINE 3																	
1+51.76	0+88.05	63.71	0.43	10	0.43	10.0	100	9.8	4.3	18	2.4	0.0017	1.25	0.11	0.2	10.2	465.78
0+88.05	0+00.00	88.05	0.00	10	0.43	10.2	100	9.8	4.3	18	2.4	0.0017	0.43	0.04	0.2	10.4	465.07
SD LINE 3-1.0																	
2+66.50	2+37.40	29.10	0.05	10	0.05	10.0	100	9.8	0.5	12	0.6	0.0002	1.25	0.01	0.8	10.8	469.66
2+37.40	2+25.80	11.60	0.00	10	0.05	10.8	100	9.8	0.5	12	0.6	0.0002	0.50	0.00	0.3	11.1	469.64
2+25.80	1+81.47	44.33	0.11	10	0.16	11.1	100	9.8	1.6	12	2.0	0.0020	0.50	0.06	0.4	11.5	469.64
1+81.47	1+66.29	15.18	0.00	10	0.16	11.5	100	9.8	1.6	12	2.0	0.0020	0.50	0.03	0.1	11.6	469.49
0+23.26	0+09.16	14.10	0.04	10	0.04	10.0	100	9.8	0.4	12	0.5	0.0001	1.25	0.00	0.0	10.0	469.64
0+09.16	1+66.29	9.16	0.00	10	0.04	10.0	100	9.8	0.4	12	0.5	0.0001	0.37	0.00	0.3	10.3	469.43
1+66.29	1+58.52	7.77	0.00	10	0.20	11.6	100	9.8	1.9	12	2.4	0.0028	0.50	0.06	0.1	11.7	469.43
1+58.52	1+57.46	1.06	0.00	10	0.20	11.7	100	9.8	1.9	12	2.4	0.0028	0.50	0.04	0.0	11.7	469.35
1+57.46	1+44.36	13.10	0.00	10	0.20	11.7	100	9.8	1.9	12	2.4	0.0028	0.37	0.03	0.1	11.8	469.31
1+44.36	1+37.66	6.70	0.00	10	0.20	11.8	100	9.8	1.9	12	2.4	0.0028	0.37	0.03	0.0	11.8	469.24
0+42.82	0+32.06	10.76	0.03	10	0.03	10.0	100	9.8	0.3	12	0.4	0.0001	1.25	0.00	0.4	10.4	469.21
0+32.06	0+32.06	29.75	0.05	10	0.05	10.0	100	9.8	0.5	15	0.4	0.0001	1.25	0.00	1.2	11.2	469.21
0+32.06	1+37.66	32.06	0.00	10	0.08	11.2	100	9.8	0.8	15	0.7	0.0002	0.50	0.01	0.8	12.0	469.21
1+37.66	1+00.67	36.99	0.00	10	0.28	12.0	100	9.8	2.7	15	2.2	0.0017	0.50	0.03	0.3	12.3	469.19
0+37.97	0+28.05	9.92	0.02	10	0.02	10.0	100	9.8	0.2	12	0.3	0.0000	1.25	0.00	0.6	10.6	469.10
0+28.05	0+24.17	3.88	0.00	10	0.02	10.6	100	9.8	0.2	12	0.3	0.0000	0.37	0.00	0.2	10.8	469.10
0+24.17	0+10.55	13.62	0.01	10	0.03	10.8	100	9.8	0.3	12	0.4	0.0001	0.50	0.00	0.6	11.4	469.10
0+10.55	1+00.67	10.55	0.00	10	0.03	11.4	100	9.8	0.3	12	0.4	0.0001	0.37	0.00	0.4	11.8	469.10
1+00.67	0+61.75	38.92	0.00	10	0.31	12.3	100	9.8	3.0	15	2.4	0.0022	0.50	0.05	0.3	12.6	469.10
0+61.75	0+61.75	61.70	0.03	10	0.03	10.0	100	9.8	0.3	12	0.4	0.0001	1.25	0.00	2.6	12.6	468.97
0+61.75	0+45.42	16.33	0.00	10	0.34	12.6	100	9.8	3.3	15	2.7	0.0026	0.50	0.07	0.1	12.7	468.96
0+37.05	0+09.79	27.26	0.19	10	0.19	10.0	100	9.8	1.8	12	2.3	0.0026	1.25	0.10	0.2	10.2	469.08
0+09.79	0+45.42	9.79	0.00	10	0.19	10.2	100	9.8	1.8	12	2.3	0.0026	0.37	0.03	0.1	10.3	468.91
0+45.42	0+36.17	9.25	0.00	10	0.53	12.7	100	9.8	5.1	15	4.1	0.0062	0.50	0.20	0.0	12.7	468.85
0+36.17	0+22.80	13.37	0.00	10	0.53	12.7	100	9.8	5.1	15	4.1	0.0062	0.37	0.10	0.1	12.8	468.59
0+22.80	0+00.00	22.80	0.00	10	0.53	12.8	100	9.8	5.1	15	4.1	0.0062	0.37	0.10	0.1	12.9	468.41
SD LINE '3-2.0'																	
0+06.11	0+00.00	6.11	0.41	10	0.41	10.0	100	9.8	4.0	15	3.3	0.0038	1.25	0.21	0.0	10.0	468.55
SD LINE 3-3.0																	
0+52.13	0+34.04	18.09	0.34	10	0.34	10.0	100	9.8	3.4	18	1.9	0.001	1.25	0.08	0.2	10.2	468.93
0+34.04	0+00.00	34.04	0.00	10	0.34	10.2	100	9.8	3.4	18	1.9	0.001	0.50	0.03	0.3	10.5	468.83

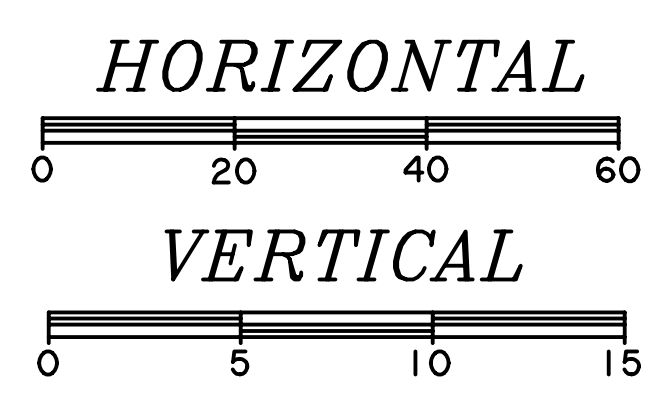
**RECORD DRAWING**  
**June 9, 2020**  
 To the best of our knowledge Wier & Associates, Inc. states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.



# PRIVATE S.D. LINE '3-1.0'



ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN



**CAUTION !!**  
 EXISTING UTILITIES ARE INDICATED ON THE PLANS FROM AVAILABLE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES, TO NOTIFY ALL UTILITY COMPANIES OF THE CONTRACTORS OPERATIONS, TO PROTECT ALL UTILITIES FROM DAMAGE, TO REPAIR ALL UTILITIES DAMAGED DUE TO THE CONTRACTORS OPERATIONS, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING UTILITIES.

PREPARED BY:  
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STORE SERIES  
 P13-LSR

SHEET TITLE  
**STORM SEWER PROFILES**

For Permit  
 For Bid  
 For Construction

Job No. : 17144  
 Store : #03897  
 Date : 12/19/2019  
 Drawn By : MCC  
 Checked By : RRW

Sheet  
**PS-2.0**

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