

Diagram illustrating a cross-section of a proposed drainage system, showing a drop inlet, a proposed grade, and an existing curb inlet.

Drop Inlet Details:

- Drop Inlet (Left):**
 - TOP: +88.25
 - INV: +88.25 (PB2)
 - INV: +88.25 (PB2)
- Drop Inlet (Right):**
 - TOP: +88.25
 - INV: +88.25 (PB2)
 - INV: +88.25 (PB2)

Proposed Grade: Indicated by a dashed line.

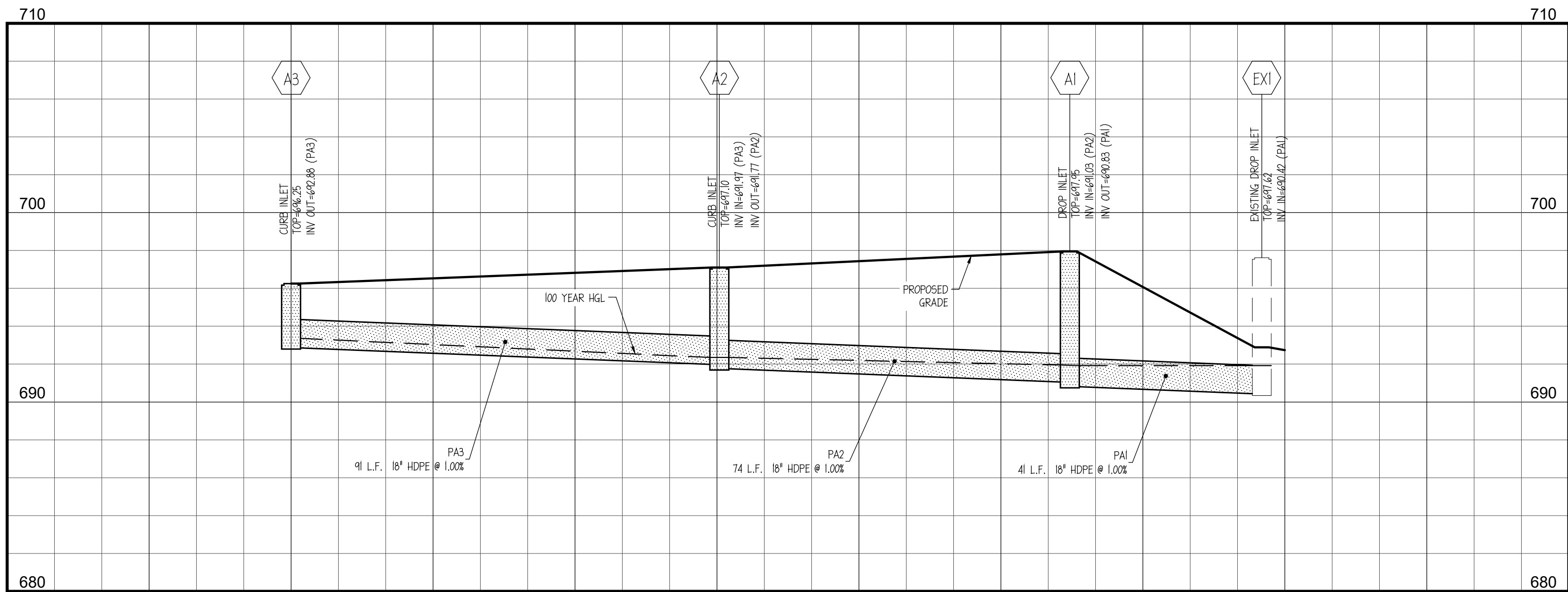
Existing Curb Inlet:

- TOP: +88.25
- INV: +88.25 (PB2)

Dimensions and Materials:

- Left Section:** 64 L.F., 12" HOPE ϕ 0.50M, 100 YEAR WGL.
- Right Section:** 47 L.F., 18" HOPE ϕ 0.50M, PB1.

STORM PROFILE - A3-EX1



Storm Sewer Tabulation

Station		Len	Drng Area		Rnof	Area x C		Tc		Rain	Total	Cap	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr	Total	coeff	Incr	Total	Inlet	Syst	(l)	flow	tull		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
5	4	89.186	0.06	0.06	0.85	0.05	0.05	5.0	5.0	9.8	0.50	2.71	0.65	12	0.49	690.00	690.44	691.37	691.38	693.48	693.48	PB2
4	End	46.995	0.10	0.16	0.84	0.08	0.14	5.0	7.3	9.1	1.23	8.13	0.71	18	0.51	689.78	690.00	691.36	691.36	692.39	693.48	PB1
3	2	90.506	0.22	0.22	0.83	0.18	0.18	5.0	9.8	1.80	11.41	4.03	18	1.01	691.97	692.88	692.38	693.38	697.10	696.25	PA3	
2	1	74.049	0.09	0.31	0.93	0.08	0.27	5.0	5.4	9.7	2.58	11.37	3.05	18	1.00	691.03	691.77	691.96	692.38	697.95	697.10	PA2
1	End	40.568	0.03	0.34	0.87	0.03	0.29	5.0	5.8	9.6	2.80	11.44	1.81	18	1.01	690.42	690.83	691.92	691.92	692.89	697.95	PA1
Project File: 210096_20220425.stm																Number of lines: 5				Run Date: 4/26/2022		
NOTES: Intensity = 127.16 / ((Inlet time + 17.80) ^ 0.82 ; Return period = Yrs. 100 ; c = cir e = ellip b = box																						

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Line No	Inlet ID	Q = CIA	Q carry	Q capt	Q Byp	Junc Type	Curb Inlet		Grate Inlet			Gutter					Inlet			Byp Line No		
		(cfs)	(cfs)	(cfs)	(cfs)		H (in)	L (ft)	Area (sq/ft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)		Spread (ft)	Depr (in)
5	B2	0.50	0.00	0.50	0.00	DrGrt	0.0	0.00	2.64	3.48	2.56	Sag	0.01	0.020	0.020	0.000	0.06	8.32	0.06	8.32	0.0	Off
4	B1	0.83	0.00	0.83	0.00	DrGrt	0.0	0.00	2.64	3.48	2.56	Sag	0.01	0.020	0.020	0.000	0.06	10.59	0.06	10.59	0.0	Off
3	A3	1.80	0.00	1.80	0.00	Comb	4.5	3.27	1.14	3.27	2.27	Sag	1.00	0.083	0.020	0.000	0.22	7.95	0.22	7.95	0.0	Off
2	A2	0.82	0.00	0.82	0.00	Comb	4.5	3.27	1.14	3.27	2.27	Sag	1.00	0.083	0.020	0.000	0.15	4.29	0.15	4.29	0.0	Off
1	A1	0.26	0.00	0.26	0.00	DrGrt	0.0	0.00	2.64	3.48	2.56	Sag	0.01	0.020	0.020	0.000	0.04	6.24	0.04	6.24	0.0	Off

Project File: 210086_20220425.str

Number of lines: 5

Run Date: 4/26/2022

NOTES: Inlet N-Values = 0.016; Intensity = $127.16 / (\text{Inlet time} + 17.80)^{0.82}$; Return period = 100 Yrs. ; * Indicates Known Q added. All curb inlets are throat.

Storm Sewers v2022.00

1. CONTROLLED BACK FILL TO BE PLACED IN 6" LOOSE LIFT AND COMPACTED TO 100% ASTM D688 PRIOR TO STORM DRAIN STRUCTURE CONSTRUCTION. THE BACKFILL SHALL BE PLACED TO A MINIMUM OF 42" ABOVE THE CROWN ELEVATION OF THE PIPES.
2. STORM DRAIN AND SANITARY SEWER LENGTHS ARE TO BE MEASURED ALONG THE CENTERLINE OF STRUCTURE OR FACE OF HEADWALL.
3. ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
4. ALL RAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1. ON SHEET C04.5 UNLESS SPECIFICALLY NOTED OTHERWISE.
5. ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 5. ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
6. UNPRESHOWN SUBSURFACE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL CHARGE TO THE OWNER.
7. EXISTING GRADES SHOWN ARE APPROXIMATE AND DO NOT REFLECT TOP SOIL REMOVAL, CLEARING, AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF DISTURBANCE FOR THESE ACTIVITIES.
8. THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT PREPARED FOR THE OWNER FOR SUBSURFACE CONDITIONS. THE GEOTECHNICAL REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS.
9. EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A MINIMUM OF 12" EXCAVATION WITHOUT FURTHER COMPENSATION.
10. SEE SHEET C01.1 FOR GENERAL NOTES.



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REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	04-07-22
ISSUE FOR BID	04-25-22

DRAWN BY: KBS

PANDA PROJECT #:D8689

PANDA STORE #:

ARCH PROJECT #:



PIPE PROFILES

C04.6

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