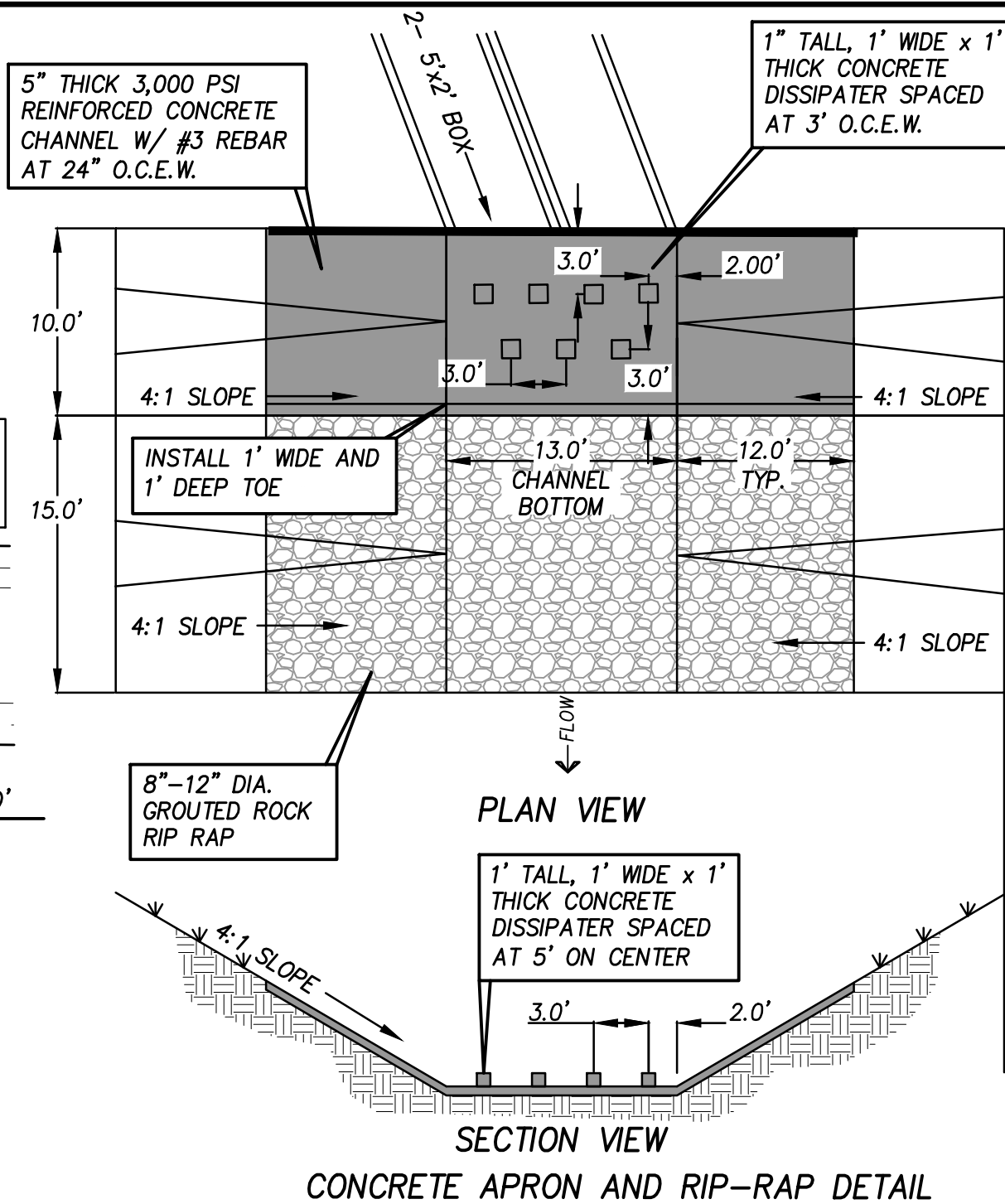
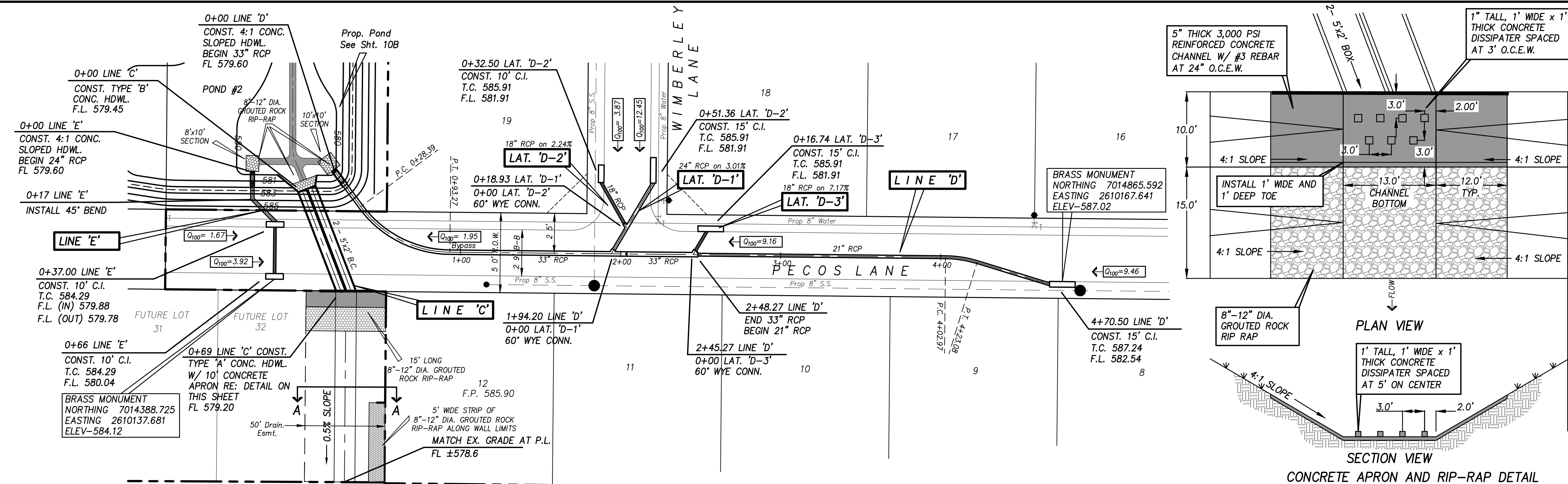


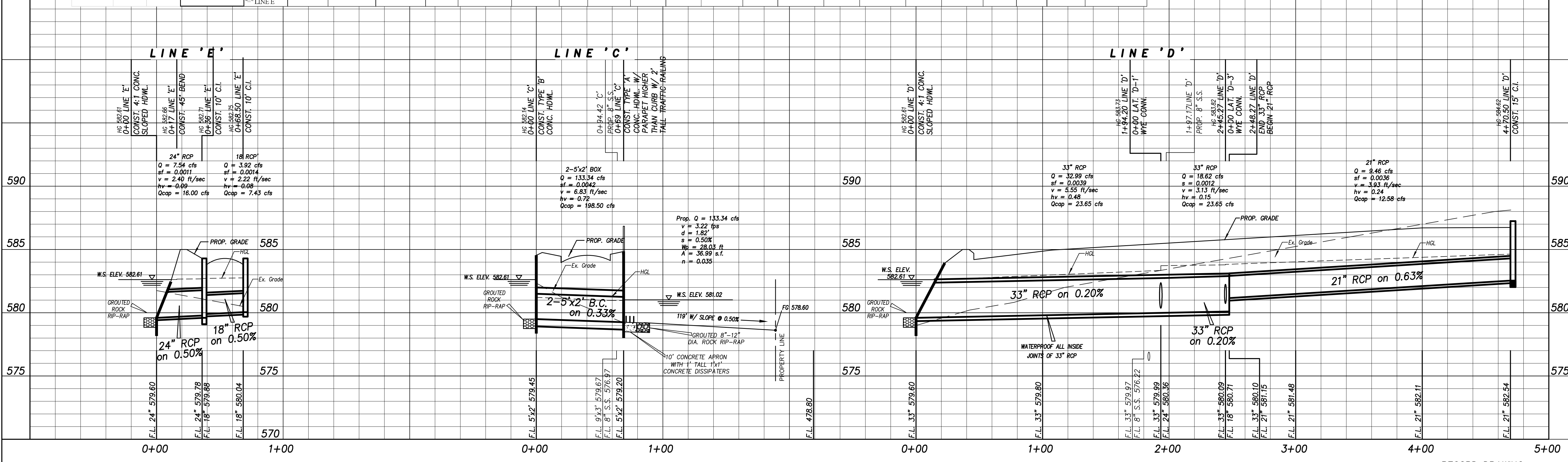
Prop. Q = 133.80 cfs  
 v = 3.61 fps  
 d = 1.82'  
 s = 0.50%  
 Wp = 28.03 ft  
 A = 36.99 s.f.  
 n = 0.035



RUNOFF COLLECTION		Distance	Area	Drainage	Run-off	Accumulated	Design Storm	Intensity	Storm Water	Pipe Capacity	Pipe	Conveyance	Hydraulic	Selected	Flowline	Flowline	HGL	HGL	Ground	Ground	Pipe	Pipe	Velocity	Head Loss	Velocity Head loss		
Downstream	Upstream	Between	No.	Area	coefficient	"CA"	Frequency	"T"	Runoff	Qcap	Slope S	K	Slope Sf	Pipe Size	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Cover	Cover	In Sewer	Coefficient	(Upstream)		
Station	Station	Points	"A" (Acres)	"C"	(years)	(in/hr)	Qdes+Q (cfs)	cfs	(ft/ft)	(ft)	(ft)	(ft)	(ft)	(ft)	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	(ft)	(ft)	(ft)	Kj	V2/2g		
0+00.00	0+94.42	94.42	POND#2	n/a	n/a	n/a	100	9.80	133.80	198.50	0.3300	1275.36	0.0035	5x2 BOX	579.28	579.45	580.97	582.50	584.80	584.80	3.60	3.35	6.63	0.75	0.68		
**LINE C																											
2+45.27	4+70.50	225.23	13	1.93	0.50	0.97	100	9.80	9.46	12.58	0.0063	158.45	0.0036	21	581.09	583.24	583.72	584.52	585.85	585.85	3.01	2.25	3.93	0.75	0.24		
0+00.00	0+16.74	16.74	8	1.87	0.50	0.94	100	9.80	9.16	28.13	0.0717	105.04	0.0076	18	580.72	581.92	583.72	583.85	585.85	585.91	3.63	2.49	5.19	0.75	0.42		
1+94.20	2+45.27	51.07	13.8	3.80	0.50	1.90	100	9.80	18.62	23.65	0.0020	528.87	0.0012	33	579.99	580.09	583.74	583.80	585.85	585.85	2.81	3.01	3.13	0.75	0.15		
0+18.93	0+51.36	32.43	6	2.28	0.50	1.14	100	9.80	18.50	39.25	0.0301	226.22	0.0022	24	580.93	581.91	583.96	584.03	585.10	585.10	2.17	2.00	3.34	0.75	0.17		
0+00.00	0+32.50	32.50	7	0.79	0.50	0.40	100	9.80	3.87	15.72	0.0224	105.04	0.0014	18	581.18	581.91	583.96	584.01	585.10	585.91	2.42	2.50	2.19	0.75	0.07		
0+00.00	0+18.93	18.93	6.7	3.07	0.50	1.54	100	9.80	13.51	39.25	0.0301	226.22	0.0036	24	580.36	580.93	583.74	583.81	585.85	585.91	3.19	2.98	4.30	0.75	0.29		
0+00.00	1+94.20	194.20	13, 8, 6, 7	6.87	0.50	3.44	100	9.80	32.99	23.65	0.0020	528.87	0.0039	33	579.60	579.99	582.62	583.38	580.30	585.55	-2.05	2.81	5.55	0.75	0.48		
**LINE D																											
0+17.00	0+66.00	49.00	3	1.28	0.50	0.64	100	9.80	7.54	16.00	0.0050	105.04	0.0014	18	579.89	580.03	582.72	582.76	585.00	584.29	3.11	2.50	2.40	0.35	0.09		
0+17.00	0+37.00	20.00	3.4	1.28	0.50	0.64	100	9.80	7.54	16.00	0.0050	226.22	0.0011	24	579.69	579.69	582.67	582.69	585.00	584.29	3.31	2.50	2.40	0.35	0.09		
0+00.00	0+17.00	17.00	3.4	1.28	0.50	0.64	100	9.80	7.54	16.00	0.0050	226.22	0.0011	24	579.60	579.69	582.62	582.64	579.60	585.00	-2.00	3.31	2.40	0.75	0.09		
**LINE E																											

**CAUTION EXISTING UTILITIES !!!**  
 EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION. TO TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

**BENCHMARK:**  
 "X" ON TOP OF CURB WEST NOSE OF MEDIAN AT ENTRANCE TO FONTANNA RANCH WIMBERLEY LN. ELEV. 570.06



Revision	Date	Description

**FONTANNA RANCH, LTD.**  
 6750 HILLCREST PLAZA DR., S. 323 • DALLAS, TX 75220 • 972-386-3333

**Fontanna Ranch Ph. 2**

**Fontanna Ranch Ph. 2**

**F.C. CUNY CORPORATION**  
 #2 Horizon Court • Ste. 500 • Heath, Texas 75032  
 Phone: 469-402-7700  
 Fax: 469-402-0700  
 Texas Registered Engineering Firm F-7449

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER R. CUNY, P.E. 65642

6-7-2017  
 F.C. CUNY CORPORATION  
 F-7449

Drawn By: FC CUNY  
 Checked By: FC CUNY  
 Date: 4-16  
 Project No.:  
 Sheet Title: **Lines C, D & E Storm Sewer Plan & Profile**  
 Scale: 1" = 40'  
 Sheet No.: 12 of 17