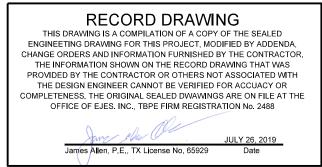
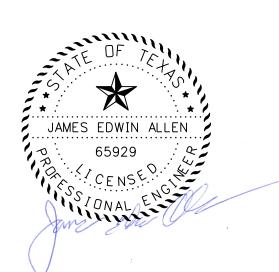
	ocation Station Of	fset Desig Frec		Area Time Area Conc ID tratic Tc	of en Intensit	y Area A	Runoff Q	Upstream Bypass C*A	Total Gutter Flow Qa	Thorough On fare Grade/ Type Sag	, Manning n	Long Slope S	l (rown	Cross Slope	Gutter Flow Depression Depth a	Depression Width W	Ponding Width Spread (allow) Tallow	Ponding Width Spread (actual) Tactual	Gutter Flow (allow)	Gutter Flow	Max. Allowable Flow based on Max. Allowable Ponding Width Qallow gutter	Gutter Section	Depress. Gutter Section Wetted Perimeter Pw	Sect. Beyond Depress. Area Ao	Sect. Beyond Depress. Wetted Perimeter Po	Conveyance Depress. Section Kw	Inlet Capacity Conveyance Section Beyond Depress. Ko	Ratio of Depress. Flow to Total	Equivalent Cross Slope Se	Inlet Length Required Lrec	Inlet Length 'd Actual Lactual	Inlet Capacity Qc	<u>Elew</u>	et By-pass To C*A Inlet ID	Remark
		(yr)		(mir) (in/hr)	(acres)) (cfs)	(cfs)	(cfs)			(ft/ft)	((ft/ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	(ft2)	(ft)	(ft2)	(ft)	(cfs)	(cfs)		(ft/ft)	(ft)	(ft)	(cfs)	(cfs)		
2 Boydstun	14+60 20) RT 100	0.9	10	9.8	0.71	6.26	0	6.26	Collector On Grad	le 0.0175	0.0156	Straight 0	0.0218	0.5	2	20	12.9	0.44	0.28	20.0	1.02	2.07	1.302	10.9	54.00	26.77	0.668551	0.19	11.46	15	10.24	0.00		
-3 Boydstun	27+15 20) RT 100	0.85	10	9.8	1.37	11.41	0	11.41	Collector On Grad	le 0.0175	0.007	Straight (0.025	0.5	2	20	17.3	0.50	0.43	16.9	1.31	2.07	2.917	15.3	82.28	82.12	0.500463	0.15	13.31	15	12.96	0.00		
1 Boydstun	28+06 20) LT 100	0.9	10	9.8	1.21	10.67	0	10.67	Collector On Grad	le 0.0175	0.01	Straight (0.025	0.5	2	20	15.8	0.50	0.39	20.2	1.24	2.07	2.366	13.8	74.50	62.11	0.545341	0.16	13.79	15	11.5	0		

						C	Conduit P	Properties	_	_	_				Incrementa	Drainage	Area												Н	GL		Headloss C	alculations			HGL	
System ID	Collection P	oint Station	Length	# of Barrels	Size 🗌			Area	Perimeter		Manning'	s Flowline	Elevation	Slope Inle	et ID Area		ental	Accumula L ted C*A	Jpstream Tc	Design Storm Freq.	Intensity I	Runoff Q100	Conduit Capacity Qc	Partial Flow	Velocity V	Time in Conduit	Friction Slope Sf	Friction Headloss	U/S	D/S	V1**2/2g	V2**2/2g Jct. 1	ype Coeff.	Headloss HL HL	Top of Curb Elev.	Depth Below	Remarks
	U/S	D/S			S	pan Rise	2		Pw			Stream	Stream			C	C*A																-			T/C	
			(ft)		(in)	(ft) (ft)		(ft*2)	(ft)	(ft)				(ft/ft)	(acres)			(min)	(yr)	(in/hr)	(cfs)	(cfs)	(Yes/No)	(fps)	(min)	(ft/ft)	(ft)			(ft)	(ft)		(ft)		(ft)	
Line A																																					
TA-1	6+08.06	2+50.20	358	1	27		RCP	3.97	7.07	0.56	0.013	577.69	568.41	0.026 *	3.58	0.83	2.98		10.86	100	9.66	28.81	49.98		7.25	0.82	0.0086	3.08									Manhole
	5+41.54	2+50.20	291									574.24	568.41																PF	570.38							@ 2.00%
	6+08.06	5+41.54	67									577.69																	PF	576.49							@ 5.18%
Lat A-2	0+30.39	0+00.00	30	1	18		RCP	1.77	4.71	0.38	0.013	571.00			/A-2 1.7	0.83	1.41			100	9.80	13.83	28.52		7.83	0.06	0.0172	0.52	PF	570.66					575.5		
TA-2	2+50.20	0+00.00	250	1	27		RCP	3.97	7.07	0.56	0.013	568.41	563.41	0.020	4.89	0.83	4.07		11.68	100	9.55	38.86	43.88		9.78	0.43	0.0157	3.92	PF	565.66							2.00%
Line B																																					
TB-1	16+91.41	12+68.64	423	1	24		RCP	3.14	6.28	0.50	0.013	578.41	566.63	0.028 \star	2.4	0.90	2.15		10.53	100	9.72	20.93	37.85		6.66	1.06	0.0085	3.60			0.69						
	14+00.00	12+68.64	131									567.27	566.63	0.005															571.73	570.61							0.50%
	16+91.41	14+00.00	291									578.31	567.27	0.038															PF	571.73							3.74%
Lat B-2	0+05.29	0+00.00	5	1	18		RCP	1.77	4.71	0.38	0.013	567.61	566.87	0.140 B	-2 0.71	0.90	0.64			100	9.80	6.26	39.38		3.55	0.02	0.0035	0.02	PF	570.61					572.61		
TB- 2	12+68.64	0+12.17	1256	1	24		RCP	3.14	6.28	0.50	0.013	566.63	530.07	0.029 \star	3.11	0.90	2.79		11.59	100	9.54	26.63	38.68		8.48	2.47	0.0138	17.32			1.12						
	2+00.00	0+12.17	188									532.86	530.07																536.62	534.03							1.50%
	7+00.00	2+00.00	500									558.36	532.86																PF	536.62							5.10%
	10+00.00	7+00.00	300									563.86	558.36																PF	560.35							1.80%
	10+55.00	10+00.00	55									565.54	563.86			_													PF	565.65							3.25%
	12+68.64	10+55.00	214									566.63	565.54																	567.54							0.50%
			4		18		RCP		4.71	0.38	0.013	531.34				0.85				100	9.80	11.41	53.16		6.46	0.01	0.0117		533.85					533.85	535.84	1.99	
TB - 3	0+12.17	0+00.00	12		27		RCP	3.97	7.07	0.56	0.013	529.79	529.61	0.015	4.48	0.88	3.96		14.06	100	9.16	36.24	37.75		9.12	0.02	0.0136	0.17	533.86	533.69	1.29						1.50%
	0.50.07	0.00.00			26					0 ==	0.040					0.00			40.40	400	0	40.77	76.07		7.04		0.0075		F 00.07	522.52							
Line C	0+50.97	0+00.00	51		36		RCP	7.07	9.42	0.75	0.013	530.03	529.37	0.013	5.66	0.90	5.09		10.18	100	9.77	49.77	76.07		7.04	0.12	0.0055	0.28	533.97	533.69							
Line D-1	0+08.03	0+00.00	8	1	18		RCP	1.77	4.71	0.38	0.013	530.75	529.82	0.116 D	-1 1.21	0.90	1.09		10	100	9.80	10.67	35.83	Yes	6.04	0.02	0.0103	0.08	531.89	531.81				531.892	4 535.25	3.36	
	5.00.00	3.00.00		_						0.00	0.010					0.00				200	5.00	20107					5.0100		001.00	501.01					000.20		PF- PARTIAL FLO

SIUKIVI SEVVEK GALGULA HONS



* COMPOSTE SLOPE



\$DATE\$



12655 N Central Expy, Suite # 500, Dallas, Texas 75243. Tel # 214-343-1210, Fax # 214-343-3885 FIRM REGISTRATION No: F-2488

DRAINAGE CALCULATIONS E. BOYDSTUN AVE. FROM S. GOLIAD ST TO S. CLARK ST

PUBLIC WORKS DEPARTMENT

C	ITY C	DF R	OCK	NAL	L, TEX	AS
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	SHEET NO.
EJES	EJES	MAY 2017				49

· _ phu Old