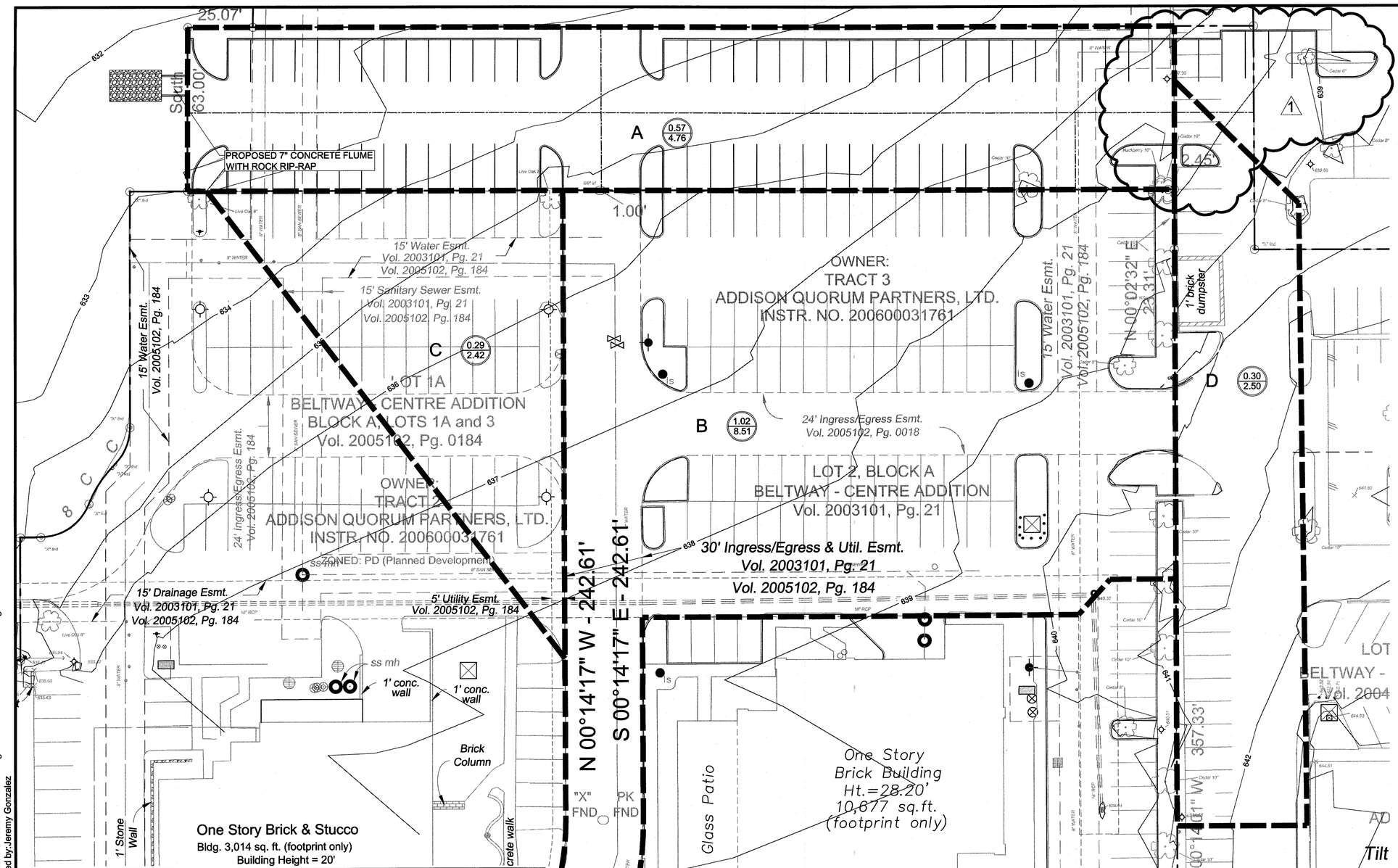

0 20 40
SCALE: 1" = 20'

LEGEND

- DRAINAGE DIVIDE LINE
- A — DRAINAGE AREA NUMBER
- 3.00 / 24.0 — DRAINAGE AREA (ACRES) - Q_{100} (AREA RUNOFF)
- 5' 18" — EXISTING STORM SEWER
- 10' 30" — PROPOSED STORM SEWER
- SURFACE FLOW ARROW

NOTE:
PER ADDISON ROAD PLANS BOTH THE ON-SITE AND OFF-SITE DRAINAGE OUTFALL TO A EXISTING INLET THAT COLLECTS THIS RUNOFF IN A STORM SEWER IN ADDISON ROAD. THE ONLY DIFFERENCE IN EXISTING AND PROPOSED CONDITIONS IS I100 8.74 VERSUS 9.27 THEREFORE NO ON-SITE DETENTION PROVIDED.

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DRAINAGE AREA CALCULATIONS						
DA NO.	AREA	RUNOFF COEFF.	Tc	I100	Q100	REMARKS
	ACRES		MIN.	IN/HOUR	CFS	
EXISTING CONDITIONS						
A	0.570	0.90	10	8.74	4.48	TO EXISTING 16' INLET (30" DISCHARGE PIPE)
*B	1.020	0.90	10	8.74	8.02	TO EXISTING 16' INLET (30" DISCHARGE PIPE)
C	0.290	0.90	10	8.74	2.28	TO EXISTING 16' INLET (30" DISCHARGE PIPE)
D	0.300	0.90	10	8.74	2.36	TO EXISTING 16' INLET (30" DISCHARGE PIPE)
*ALSO PART OF DA-A5 AS PER TOWN OF ADDISON DRAINGAE PLAN						
PROPOSED CONDITIONS						
A	0.570	0.90	10	9.27	4.76	PROPOSED PARKING AND DRIVEWAY AREAS
B	1.020	0.90	10	9.27	8.51	PROPOSED PARKING AND DRIVEWAY AREAS
C	0.290	0.90	10	9.27	2.42	PROPOSED PARKING AND DRIVEWAY AREAS
D	0.300	0.90	10	9.27	2.50	PROPOSED PARKING AND DRIVEWAY AREAS

Flume	Width:	7.00	ft				
	Depth:	0.50	ft				
Q = 1.486 / n * A * R ^ (2/3) * S ^ 0.5					1.486	n=	0.013
Flume Capacity	Width	Depth	A	WP	R	S	Velocity
cfs	ft.	ft.	s.f.	ft.	ft.		ft/sec
20.62	7.00	0.50	3.50	8.00	0.4375	0.0080	5.89
Total Flow	Width	Depth	A	WP	R	S	Velocity
cfs	ft.	ft.	s.f.	ft.	ft.		ft/sec
18.19	7.00	0.46	3.23	7.92	0.4080	0.0080	5.62

STATE OF TEXAS
RICHARD CARSON, JR.
40854
LICENSED PROFESSIONAL ENGINEER
01/10/14

NO	REVISION	DATE
1	Revised Parking Layout	1-10-14

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ON-SITE DRAINAGE AREA MAP

PARKING LOT
SITE DEVELOPMENT
PUBLIC WORKS DEPARTMENT
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
RC	JRG	1/10/14	1"=20'	PC	-	-

Filename:\\HD-HTGL1AF\share\Drawings\2013\13164-Home 2 Suites Addison\Design Data\Sheets\13164-C-DAM02.dwg
Date:Friday, January 10, 2014 Time:2:14 PM Plotted by:Jeremy Gonzalez