100-YEAR WATER SURFACE ELEVATION ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR THE BRAZORIA COUNTY, TEXAS AND INCORPORATED AREAS, COMMUNITY PANEL Nos. 48039C0020H AND 48039C0401 EFFECTIVE DATES JUNE 5, 1989 AND SEPTEMBER 22, 1999, RESPECTIVELY. THE SUBJECT TRACT LIES PARTIALLY WITHIN ZONE "AE" (AREA DETERMINED TO BE SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD WITH BASE FLOOD ELEVATION DETERMINED). THE SUBJECT TRACT WILL BE FILLED ABOVE THE 100-YEAR FLOOD ELEVATION. A LOMR BASED ON FILL WILL BE PREPARED FOR THIS DEVELOPMENT UPON COMPLETION OF CONSTRUCTION.
BFE ELEVATION= 62.8

BENCHMARKS:

ELEVATIONS SHOWN HEREON ARE BASED ON USGS MONUMENT, DESIGNATION M 456 LOCATED ON A BRASS DISK IN A CONCRETE POST NEAR THE INTERSECTION OF THE EAST RIGHT OF WAY OF THE G. C. &S. F. R. R. AND THE NORTH RIGHT OF WAY OF HALIK ROAD.

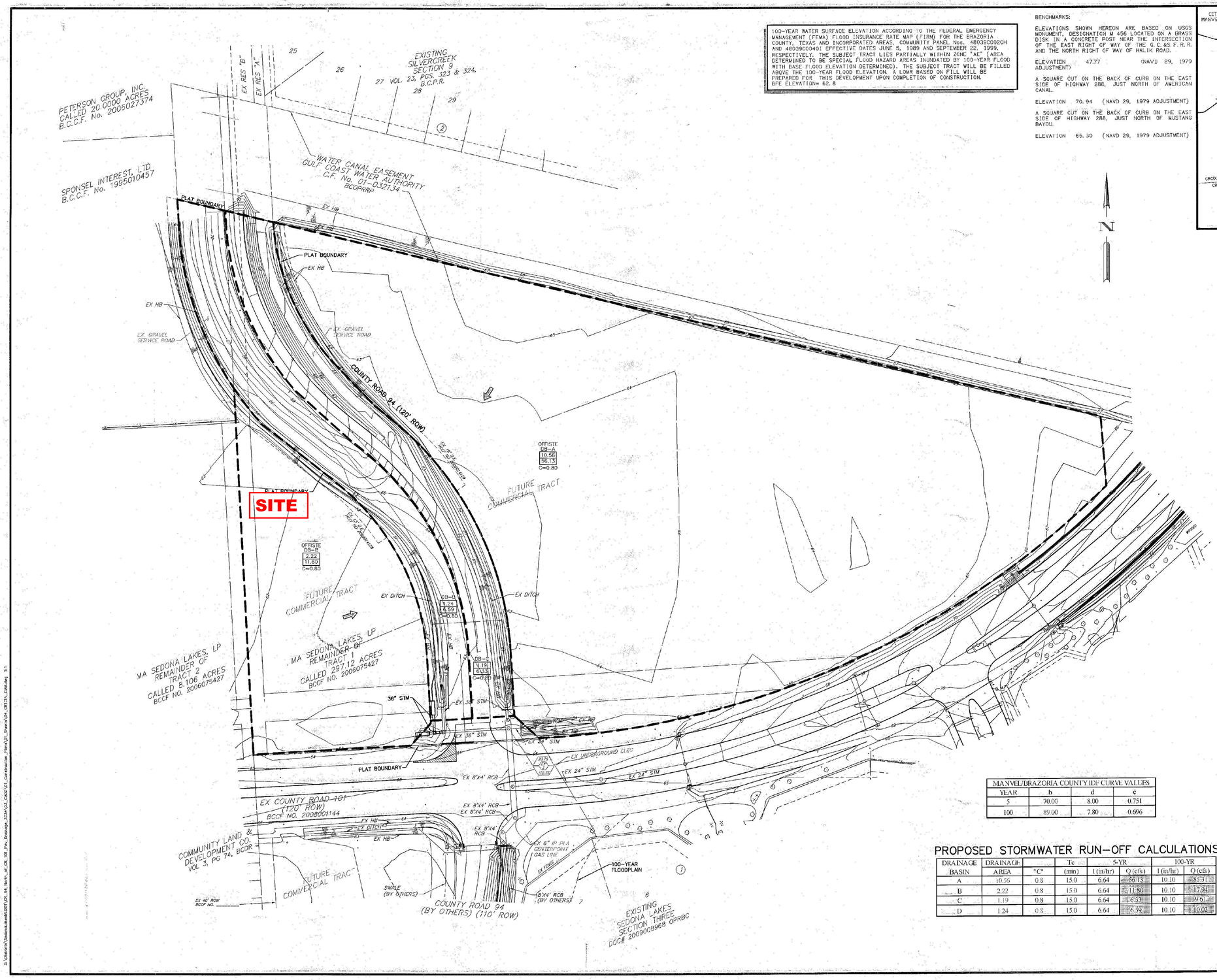
ELEVATION 47.77 (NAVD 29, 1979 ADJUSTMENT)

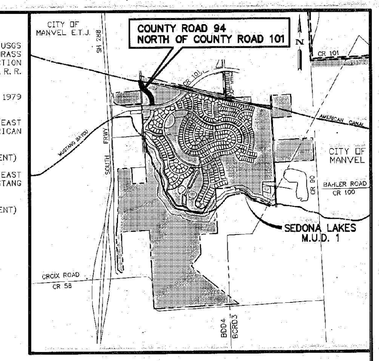
A SQUARE CUT ON THE BACK OF CURB ON THE EAST SIDE OF HIGHWAY 288, JUST NORTH OF AMERICAN CANAL.

ELEVATION 70.94 (NAVD 29, 1979 ADJUSTMENT)

A SQUARE CUT ON THE BACK OF CURB ON THE EAST SIDE OF HIGHWAY 288, JUST NORTH OF MUSTANG BAYOU.

ELEVATION 65.30 (NAVD 29, 1979 ADJUSTMENT)





VICINITY MAP

1"= 2000'
BRAZORIA CO. KEY MAP: 653A
ZIP CODE: 77578

LEGEND

- DRAINAGE AREA BOUNDARY
- Ac / cfs — ACREAGE / CFS
- 1.85 / M / 2.56 — CUMULATIVE ACREAGE / MANHOLE NUMBER / CUMULATIVE CFS
- A10 — STORM MANHOLE NUMBER
- EXISTING STORM INLETS & MANHOLE
- PROPOSED STORM INLETS & MANHOLE
- EXTREME EVENT SHEET FLOW DIRECTION
- EXISTING CONTOUR LINE

MANVEL/BRAZORIA COUNTY IDF CURVE VALUES			
YEAR	b	d	e
5	70.00	8.00	0.751
100	89.00	7.80	0.696

PROPOSED STORMWATER RUN-OFF CALCULATIONS

DRAINAGE BASIN	DRAINAGE AREA	"C"	Tc (min)	5-YR I (in/hr)	5-YR Q (cfs)	100-YR I (in/hr)	100-YR Q (cfs)
A	10.56	0.8	15.0	6.64	56.13	10.10	85.31
B	2.22	0.8	15.0	6.64	11.80	10.10	17.94
C	1.19	0.8	15.0	6.64	6.33	10.10	9.61
D	1.24	0.8	15.0	6.64	6.59	10.10	10.02

REV. NO.	DATE	DESCRIPTION	P.E. APPR.
3			
2			
1			

BGE
Brown & Gay Engineers, Inc.
10777 Westheimer, Suite 400
Houston, TX 77042
Tel: 281-558-8700 • www.brownandgay.com
TBPE Registration No. F-1046

STATE OF TEXAS — NICHOLAS N. BAILEY — 95581 — LICENSED PROFESSIONAL ENGINEER — 1/28/15
Brown & Gay Engineers, Inc. F-1046

SEDONA LAKES M.U.D. NO. 1

COUNTY ROAD 94
NORTH OF
COUNTY ROAD 101

DRAINAGE AREA MAP

JOB NUMBER: 3034-00/3034-10

SUBMITTED: BROWN & GAY ENGINEERS, INC.
SCALE: 1"=60'
DATE: JANUARY 28, 2015
SURVEY BY: BROWN & GAY ENGINEERS, INC
F.B. NO:
DESIGNED BY: G.L.P.
DRAWN BY: C.H.
SHEET NO. 4 OF 13 SHEETS
CITY DWG NO:

X:\Manvel\Sedona Lakes\PDF\3034_SA_North of CR 101 Fm Drainage_2034\03_CADD\01_Construction_Plans\01-Sheets\04_DRN1Fm_LDM.dwg, 1:1