LEGEND:

30+00 — CONVEYANCE CORRIDOR SURVEY BASELINE

PL — PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

MATCHLINE SHEET 10

MATCHLINE SHEET 12

299,000' N

3,834,000' E

302,000' N

3,831,000' E

260+00 265+00 270+00 275+00 280+00 285+00 290+00 295+00 300+00

mag 346 145g/183ft
mag 347 34g/10ft
mag 348 140g/11ft
mag 349 121g/50ft
mag 350 218g/9ft
mag 351 152g/112ft
mag 352 66g/20ft
mag 353 51g/10ft
mag 354 218g/55ft
mag 355 251g/223ft
mag 356 118g/297ft
mag 357 237g/677ft
mag 358 136g/19ft
mag 359 62g/71ft
mag 360 79g/22ft
mag 361 58g/19ft
mag 362 204g/298ft
mag 363 157g/24ft
mag 364 154g/43ft
mag 365 130g/14ft
mag 366 57g/48ft
mag 367 78g/46ft
mag 368 77g/120ft
mag 369 153g/133ft
mag 370 87g/30ft
mag 371 143g/220ft
mag 372 67g/11ft
mag 373 143g/39ft
mag 374 54g/4ft
mag 375 122g/32ft
mag 376 106g/52ft
mag 377 82g/17ft
mag 378 220g/51ft
mag 379 65g/14ft
mag 380 252g/327ft
mag 381 254g/703ft
mag 382 324g/1081ft
mag 383 156g/100ft
mag 384 200g/164ft
mag 385 155g/105ft
mag 386 182g/49ft
mag 387 180g/88ft

LA STATE GAS CORP PIPELINE

TENNESSEE GAS PIPELINE

LL&E PIPELINE

EXXON MOBIL PIPELINE

EXXON MOBIL PIPELINE

KOCH GATEWAY PIPELINE

KOCH GATEWAY PIPELINE

KOCH GATEWAY PIPELINE

300' 150' 0' 300' 600'

FENSTERMAKER & ASSOCIATES, INC.

DATE: JANUARY 2010	F.B.	PG.	
DRAWN:	F.B.	PG.	
CHECKED:	F.B.	PG.	
SCALE: 1"=300'	F.B.	PG.	
SEC. 1, T19S–R28E	F.B.	PG.	
ACAD NO. 2069965.00C	REF. NO.	BA–40	

BATHYMETRIC AND MAGNETOMETER SURVEY OF CONVEYANCE CORRIDOR OPEN WATER SEGMENT SCOFIELD ISLAND RESTORATION (BA-40)

COASTAL ENGINEERING CONSULTANTS INC.
PH: (239) 643-2324
FAX: (239) 643-1147
3106 SOUTH HORSESHOE DRIVE
NAPLES, FLORIDA 34104

STB GROUP, LLC
QUALITY BY DESIGN
P.O. BOX 1751
BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 11 OF 32

FILE NO.: 31179.0 TASK 903

LEGEND:

30+00 CONVEYANCE CORRIDOR SURVEY BASELINE

PL PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

MATCHLINE SHEET 11

SECONDARY BOOSTER PUMP SITE #4

PIPELINE DETAILS UNDETERMINED

KOCH GATEWAY PIPELINE

TEXAS GAS PIPELINE

SEE SHEET 13

NAVIGATION CROSSING

3,835,000' E

294,000' N

305+00 310+00 315+00 320+00 325+00 330+00 335+00 340+00 345+00 350

mag 387 0g/88ft
mag 388 25g/13ft
mag 389 354g/172ft
mag 390 115g/66ft
mag 391 257g/83ft
mag 392 68g/36ft
mag 393 231g/15ft
mag 394 69g/9ft
mag 395 50g/9ft
mag 396 128g/35ft
mag 397 94g/331ft
mag 398 55g/26ft
mag 399 80g/75ft
mag 400 101g/70ft
mag 401 127g/53ft
mag 402 58g/24ft
mag 403 264g/248ft
mag 404 233g/151ft
mag 405 188g/150ft
mag 406 37g/94ft
mag 407 92g/2058ft
mag 409 134g/1027ft
mag 417 42g/165ft
mag 424 118g/45ft
mag 429 77g/45ft
mag 430 23g/199ft
mag 431 100g/32ft
mag 432 140g/40ft
mag 433 97g/31ft
mag 434 129g/63ft
mag 435 100g/29ft
mag 436 147g/49ft
mag 437 145g/71ft
mag 438 61g/92ft
mag 439 330g/311ft

X = 3833902.46
Y = 295774.45
Debris

X = 3833940.50
Y = 295910.20
Debris

X = 3833669.74
Y = 295826.24
NO HIT

X = 3833906.22
Y = 295479.05
Pipeline

X = 3833887.94
Y = 295509.99
Debris

X = 3833836.54
Y = 295577.49
Pipeline

TENNESSEE GAS PIPELINE

LA STATE GAS CORP PIPELINE

3,832,000' E

297,000' N

MATCHLINE SHEET 14

300' 150' 0' 300' 600'

FENSTERMAKER & ASSOCIATES, INC.

DATE: JANUARY 2010	F.B.	PG.		
DRAWN:	F.B.	PG.		
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SCALE: 1"=300'	F.B.	PG.		
SEC. 1, T19S–R28E	F.B.	PG.		
ACAD NO. 2069965.00C	REF. NO.	BA–40		

BATHYMETRIC AND MAGNETOMETER SURVEY OF CONVEYANCE CORRIDOR OPEN WATER SEGMENT SCOFIELD ISLAND RESTORATION (BA-40)

COASTAL ENGINEERING CONSULTANTS INC.
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BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 12 OF 32

FILE NO.: 31179.0 TASK 903

LEGEND:

- 30+00 — CONVEYANCE CORRIDOR SURVEY BASELINE
- PL — PIPELINE
- BOTTOM ELEVATION ABOVE -6 FT NAVD88
- BOTTOM ELEVATION -6 TO -10 FT NAVD88
- BOTTOM ELEVATION BELOW -10 FT NAVD88
- MAGNETOMETER ANOMALY

mag 405
188g/150ft

mag 403
264g/248ft

mag 404
233g/151ft

mag 407
92g/2058ft

mag 430
23g/199ft

mag 429
77g/45ft

325+00

330+00

335+00

340+00

NAVIGATION CROSSING

O'

P'

N'

M'

A

N

M

O

P

-10

-8

-6

120' 60' 0' 120' 240'

DATE: JANUARY 2010 F.B. PG.
DRAWN: F.B. PG.
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SCALE: 1"=300' F.B. PG.
SEC. 1, T19S-R28E F.B. PG.
ACAD NO. 2069965.00C REF. NO. BA-40

BATHYMETRIC AND MAGNETOMETER SURVEY OF CONVEYANCE CORRIDOR OPEN WATER SEGMENT SCOFIELD ISLAND RESTORATION (BA-40)

C. H. FENSTERMAKER & ASSOCIATES, INC.

COASTAL ENGINEERING CONSULTANTS INC.
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NAPLES, FLORIDA 34104

STB GROUP, LLC
QUALITY BY DESIGN
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BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 13 OF 32
FILE NO.: 31179.0 TASK 903

LEGEND:

30+00 CONVEYANCE CORRIDOR SURVEY BASELINE

PL PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

293,000' N

3,835,000' E

SHELL PIPELINE

PIPELINE DETAILS UNDETERMINED

350+00 355+00 360+00 365+00 370+00 375+00 380+00 385+00 390+00

mag 443 84g/6ft
mag 445 224g/129ft
mag 446 453g/216ft
mag 449 94g/13ft
mag 455 155g/45ft
mag 459 106g/126ft
mag 463 100g/41ft
mag 468 69g/21ft
mag 474 163g/24ft
mag 444 155g/32ft
mag 447 180g/97ft
mag 448 98g/17ft
mag 450 91g/13ft
mag 451 228g/63ft
mag 452 110g/139ft
mag 454 176g/13ft
mag 456 163g/48ft
mag 458 81g/16ft
mag 460 111g/29ft
mag 464 72g/10ft
mag 465 86g/11ft
mag 466 82g/10ft
mag 467 65g/13ft
mag 469 192g/14ft
mag 472 176g/60ft
mag 471 73g/9ft
mag 473 64g/11ft
mag 470 143g/25ft
mag 442 324g/414ft
mag 440 323g/180ft
mag 441 369g/267ft
mag 453 169g/252ft
mag 457 125g/264ft
mag 461 155g/44ft
mag 462 131g/409ft

MATCHLINE SHEET 12

MATCHLINE SHEET 15

291,000' N

3,832,000' E

300' 150' 0' 300' 600'

FENSTERMAKER & ASSOCIATES, INC.

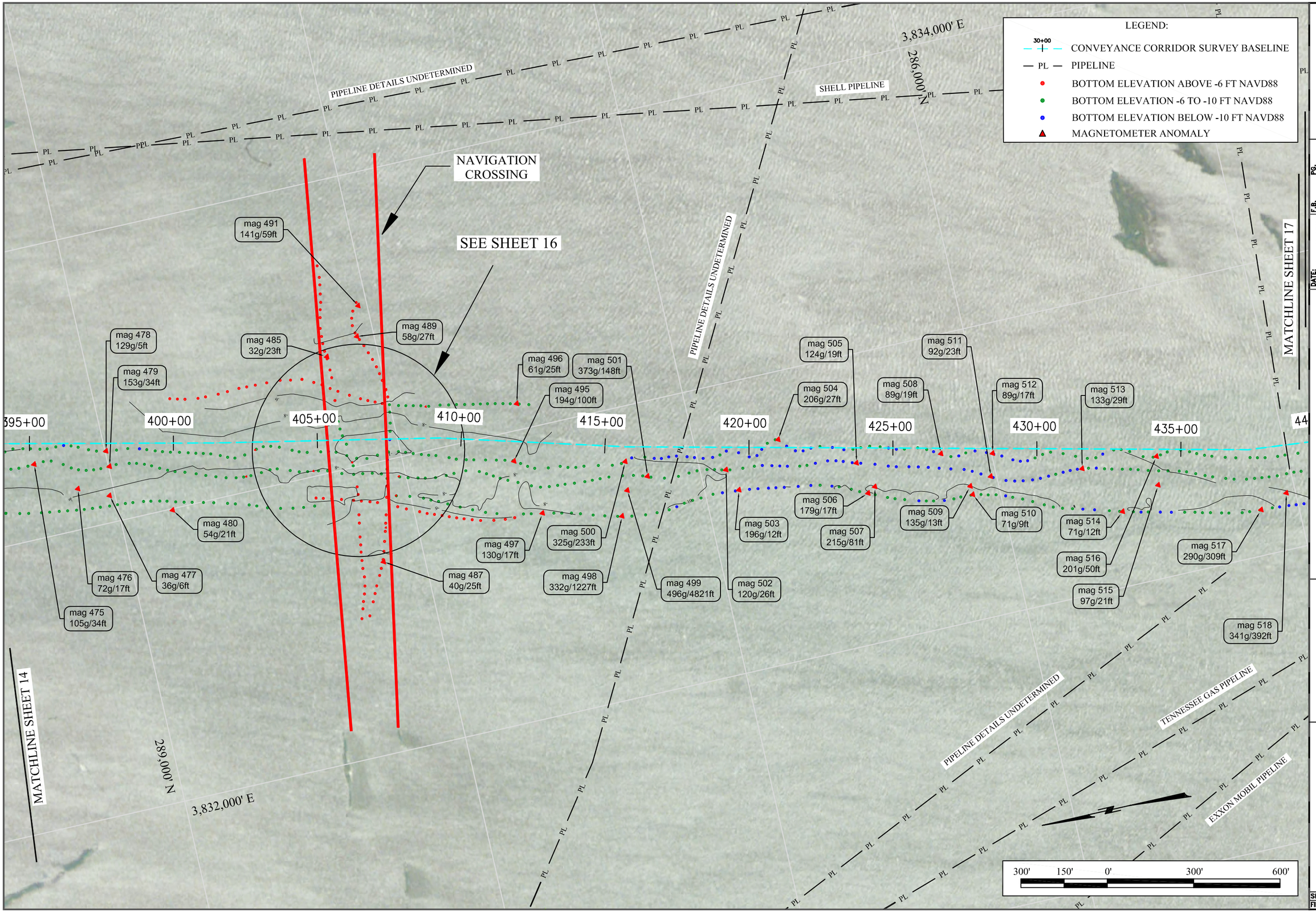
DATE: JANUARY 2010 F.B. PG.
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CHECKED: F.B. PG.
SCALE: 1"=300' F.B. PG.
SEC. 1, T19S-R28E F.B. PG.
ACAD NO. 2069965.00C REF. NO. BA-40

BATHYMETRIC AND MAGNETOMETER SURVEY OF CONVEYANCE CORRIDOR OPEN WATER SEGMENT SCOFIELD ISLAND RESTORATION (BA-40)

COASTAL ENGINEERING CONSULTANTS INC.
PH: (239) 643-2324
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3106 SOUTH HORSESHOE DRIVE
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STB GROUP, LLC
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FAX (225) 769-3596

SHEET 14 OF 32
FILE NO.: 31179.0 TASK 903



BATHYMETRIC AND MAGNETOMETER
SURVEY OF CONVEYANCE CORRIDOR
OPEN WATER SEGMENT
SCOFIELD ISLAND RESTORATION (BA-40)

DATE: JANUARY 2010	F.B. PG.		
DRAWN:	F.B. PG.		
CHECKED:	F.B. PG.		
SCALE: 1"=300'	F.B. PG.	SEC. 1, T19S–R28E	F.B. PG.
ACAD NO. 2069965.00C	REF. NO. BA–40		

FENSTERMAKER & ASSOCIATES, LLC

COASTAL ENGINEERING CONSULTANTS INC.
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FAX: (239) 643-2144
3106 SOUTH HORSESHOE DRIVE
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STB GROUP, LLC
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BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

LEGEND:

30+00 CONVEYANCE CORRIDOR SURVEY BASELINE

PL PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

NAVIGATION CROSSING

mag 478
129g/5ft

mag 479
153g/34ft

mag 480
54g/21ft

mag 477
36g/6ft

mag 485
32g/23ft

mag 489
58g/27ft

mag 487
40g/25ft

mag 496
61g/25ft

mag 495
194g/100ft

mag 497
130g/17ft

mag 501
373g/148ft

mag 500
325g/233ft

mag 498
332g/1227ft

R

R'

Q

Q'

S

T

400+00

405+00

410+00

415+00

8-

9-

10-

120' 60' 0' 120' 240'

FENSTERMAKER & ASSOCIATES, INC.

DATE: JANUARY 2010	F.B.	PG.
DRAWN:	F.B.	PG.
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SCALE: 1"=300'	F.B.	PG.
SEC. 1, T19S-R28E	F.B.	PG.
ACAD NO. 2069965.00C	REF. NO.	BA-40

BATHYMETRIC AND MAGNETOMETER
SURVEY OF CONVEYANCE CORRIDOR
OPEN WATER SEGMENT
SCOFIELD ISLAND RESTORATION (BA-40)

COASTAL ENGINEERING CONSULTANTS INC.
PH: (239) 643-2324
FAX: (239) 643-1143
3106 SOUTH HORSESHOE DRIVE
NAPLES, FLORIDA 34104

STB GROUP, LLC
QUALITY BY DESIGN
P.O. BOX 1751
BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 16 OF 32
FILE NO.: 31179.0 TASK 903

LEGEND:

30+00 CONVEYANCE CORRIDOR SURVEY BASELINE

PL PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

SHELL PIPELINE

EXXON MOBIL PIPELINE

TENNESSEE GAS PIPELINE

NAVIGATION CROSSING

PRIMARY BOOSTER PUMP SITE #2 SEE SHEET 18

SECONDARY BOOSTER PUMP SITE #5

SEE SHEET 19

MATCHLINE SHEET 15

MATCHLINE SHEET 20

281,000' N

3,833,000' E

285,000' N

3,831,000' E

mag 519 363g/196ft

mag 520 376g/480ft

mag 521 77g/17ft

mag 531 37g/58ft

mag 534 45g/164ft

mag 537 41g/46ft

mag 545 176g/21ft

mag 546 63g/21ft

mag 547 147g/64ft

mag 548 258g/22ft

mag 549 204g/34ft

mag 550 148g/673ft

mag 551 121g/37ft

mag 552 133g/98ft

mag 553 146g/139ft

mag 554 46g/27ft

mag 555 158g/34ft

mag 556 185g/55ft

mag 557 122g/26ft

mag 558 134g/109ft

mag 559 75g/19ft

mag 560 204g/310ft

mag 561 151g/174ft

mag 562 134g/54ft

mag 563 211g/49ft

mag 564 188g/140ft

mag 565 120g/92ft

mag 566 403g/49ft

X = 3832037.92
Y = 283411.33
Debris

X = 3831990.38
Y = 283144.09
Debris

X = 3831884.29
Y = 282725.18
Debris

445+00 450+00 455+00 460+00 465+00 470+00 475+00 480+00 485+

300' 150' 0' 300' 600'

BATHYMETRIC AND MAGNETOMETER SURVEY OF CONVEYANCE CORRIDOR OPEN WATER SEGMENT SCOFIELD ISLAND RESTORATION (BA-40)

DATE: JANUARY 2010 F.B. PG.
DRAWN: F.B. PG.
CHECKED: F.B. PG.
SCALE: 1"=300' F.B. PG.
SEC. 1, T19S-R28E F.B. PG.
ACAD NO. 2069965.00C REF. NO. BA-40

C. H. FENSTERMAKER & ASSOCIATES, INC.

COASTAL ENGINEERING CONSULTANTS INC.
PH: (239) 643-2324
FAX: (239) 643-2314
3106 SOUTH HORSESHOE DRIVE
NAPLES, FLORIDA 34104

STB GROUP, LLC
QUALITY BY DESIGN
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BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 17 OF 32
FILE NO.: 31179.0 TASK 903

LEGEND:

30+00 — CONVEYANCE CORRIDOR SURVEY BASELINE

PL — PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

mag 521
77g/17ft

PRIMARY
BOOSTER PUMP
SITE #2

V

V'

W

W'

X

X'

U

U'

445+00

450+00

-14

-12

-10

EXXON MOBIL PIPELINE

TENNESSEE GAS PIPELINE

60' 30' 0' 60' 120'

G.H. FENSTERMAKER & ASSOCIATES, INC.

DATE: JANUARY 2010	F.B.	PG.		
DRAWN:	F.B.	PG.		
CHECKED:	F.B.	PG.		
SCALE: 1"=300'	F.B.	PG.		
SEC. 1, T19S-R28E	F.B.	PG.		
ACAD NO. 2069965.00C	REF. NO.	BA-40		

BATHYMETRIC AND MAGNETOMETER
SURVEY OF CONVEYANCE CORRIDOR
OPEN WATER SEGMENT
SCOFIELD ISLAND RESTORATION (BA-40)

COASTAL ENGINEERING CONSULTANTS INC.
PH: (239) 643-2324
FAX: (239) 643-1143
3106 SOUTH HORSESHOE DRIVE
NAPLES, FLORIDA 34104

STB GROUP, LLC
QUALITY BY DESIGN
P.O. BOX 1751
BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 18 OF 32
FILE NO.: 31179.0 TASK 903

LEGEND:

30+00 CONVEYANCE CORRIDOR SURVEY BASELINE

PL PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

NAVIGATION CROSSING

TENNESSEE GAS PIPELINE

EXXON MOBIL PIPELINE

AA'

BB'

Z

Z'

Y

Y'

AA

BB

50+00

455+00

460+00

465+00

-12

-14

-16

-10

-8

mag 537
41g/46ft

mag 548
258g/22ft

mag 549
204g/34ft

mag 545
176g/21ft

mag 546
63g/21ft

mag 547
147g/64ft

X = 3832037.92
Y = 283411.33
Debris

X = 3831990.38
Y = 283144.09
Debris

120' 60' 0' 120' 240'

C.H. FENSTERMAKER & ASSOCIATES, INC.

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SEC. 1, T19S-R28E F.B. PG.
ACAD NO. 2069965.00C REF. NO. BA-40

BATHYMETRIC AND MAGNETOMETER SURVEY OF CONVEYANCE CORRIDOR OPEN WATER SEGMENT SCOFIELD ISLAND RESTORATION (BA-40)

COASTAL ENGINEERING CONSULTANTS INC.
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FAX: (239) 643-1143
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SIB GROUP, LLC
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BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 19 OF 32
FILE NO.: 31179.0 TASK 903

LEGEND:

30+00 CONVEYANCE CORRIDOR SURVEY BASELINE

PL PIPELINE

BOTTOM ELEVATION ABOVE -6 FT NAVD88

BOTTOM ELEVATION -6 TO -10 FT NAVD88

BOTTOM ELEVATION BELOW -10 FT NAVD88

MAGNETOMETER ANOMALY

PELICAN ISLAND

SEE SHEET 21

TENNESSEE GAS PIPELINE

PROMIX PIPELINE

X = 3831568.73
Y = 280120.34
Debris

X = 3831570.35
Y = 280049.76
Pipeline

X = 3831469.71
Y = 280097.94
Pipeline

X = 3831527.12
Y = 279948.48
Debris

278,000' N

3,832,000' E

280,000' N

3,830,000' E

mag 569
82g/52ft

mag 582
56g/141ft

mag 588
265g/26ft

mag 585
244g/91ft

mag 589
96g/12ft

mag 591
164g/20ft

mag 592
208g/62ft

mag 598
100g/8ft

mag 599
57g/5ft

mag 602
74g/6ft

mag 606
187g/14ft

mag 608
64g/53ft

mag 610
17g/19ft

mag 611
74g/19ft

mag 624
208g/8ft

mag 626
35g/2ft

mag 618
93g/49ft

mag 625
244g/151ft

485+00

490+00

495+00

500+00

505+00

510+00

515+00

520+00

525+00

mag 570
164g/992ft

mag 587
135g/89ft

mag 586
123g/138ft

mag 584
261g/201ft

mag 593
71g/11ft

mag 590
313g/759ft

mag 597
73g/18ft

mag 596
98g/36ft

mag 595
99g/38ft

mag 594
382g/56ft

mag 601
67g/9ft

mag 603
118g/16ft

mag 600
213g/153ft

mag 604
317g/43ft

mag 605
157g/19ft

mag 607
106g/24ft

mag 609
135g/26ft

mag 612
90g/69ft

mag 615
552g/323ft

mag 616
231g/393ft

mag 613
73g/21ft

EMPIRE JETTIES

GULF OF MEXICO

NAVIGATION CROSSING

MATCHLINE SHEET 17

300' 150' 0' 300' 600'

BATHYMETRIC AND MAGNETOMETER SURVEY OF CONVEYANCE CORRIDOR OPEN WATER SEGMENT SCOFIELD ISLAND RESTORATION (BA-40)

DATE: JANUARY 2010 F.B. PG.
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CHECKED: F.B. PG.
SCALE: 1"=300' F.B. PG.
SEC. 1, T19S-R28E F.B. PG.
ACAD NO. 2069965.00C REF. NO. BA-40

C. H. FENSTERMAKER & ASSOCIATES, INC.

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STB GROUP, LLC
QUALITY BY DESIGN
P.O. BOX 1751
BATON ROUGE, LA. 70821
PHONE (225) 769-3400
FAX (225) 769-3596

SHEET 20 OF 32
FILE NO.: 31179.0 TASK 903