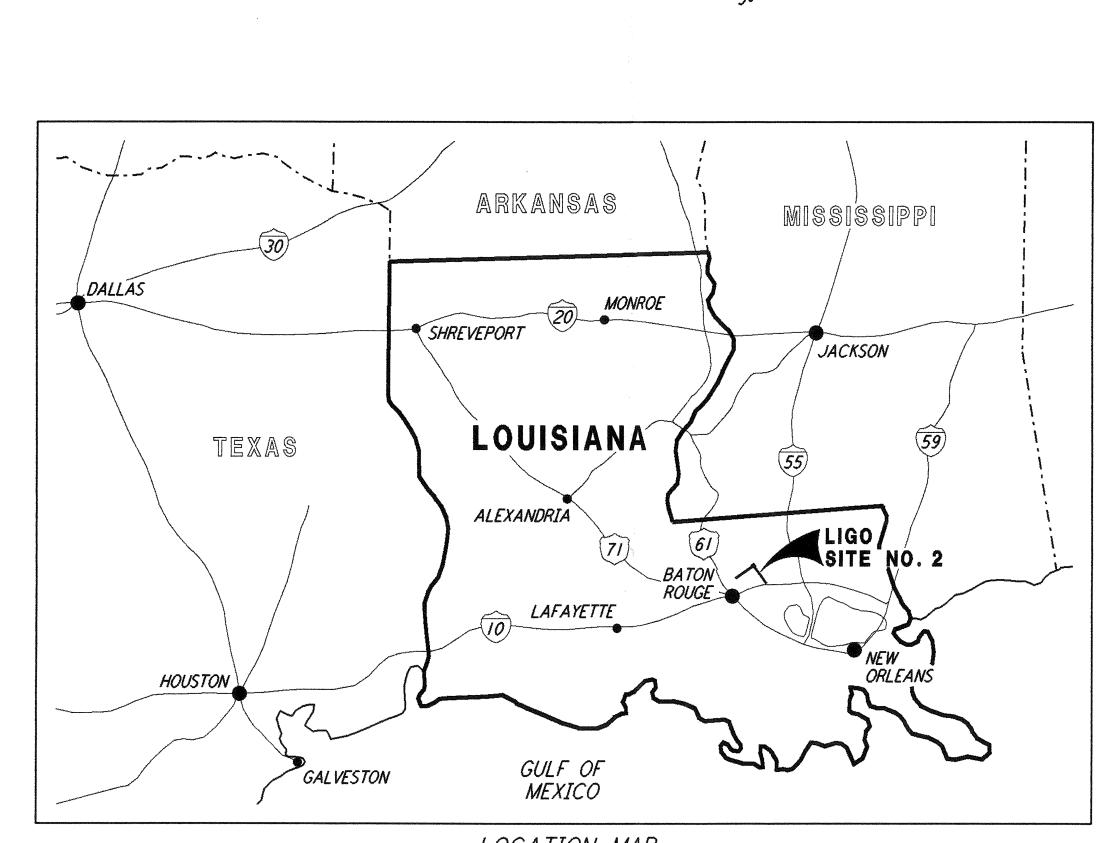
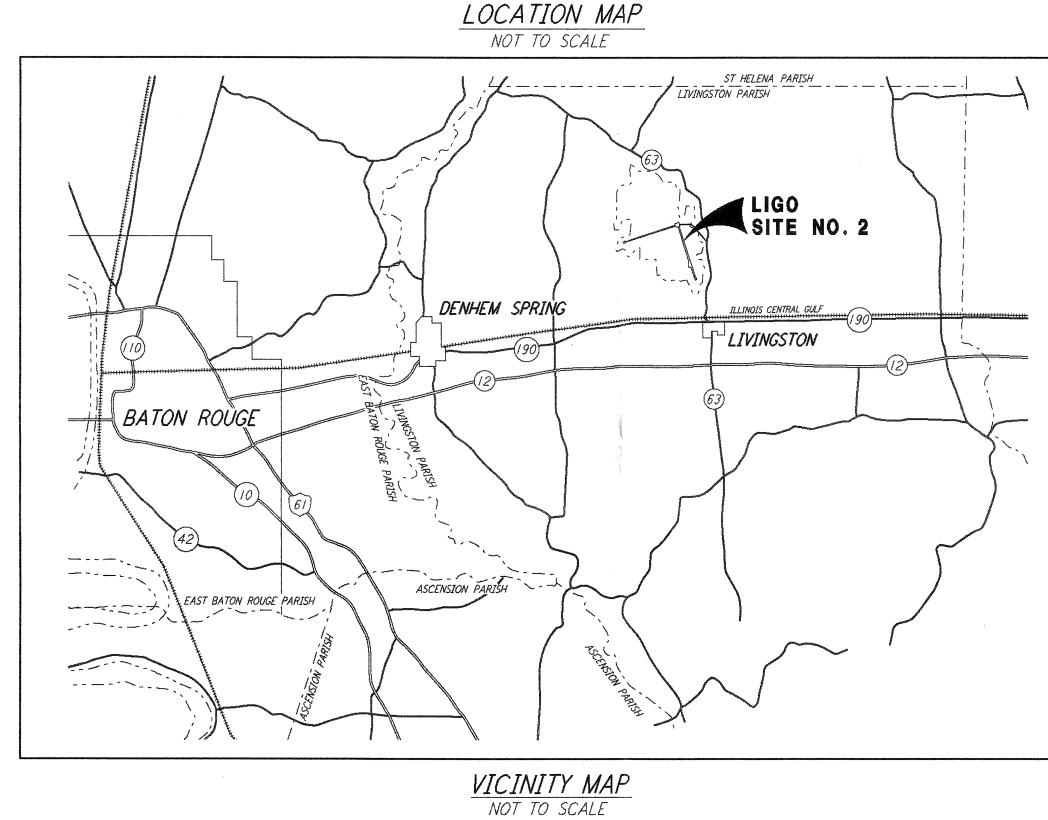
ONS. They a	
of PABS	-
	ABSONS: They

	DRAWING INDEX
DRAWING NUMBER	DRAWING TITLE
CIVIL	
LA-C-501	CIVIL, DRAWING INDEX, LOCATION & VICINITY MAPS
LA-C-502	CIVIL, GENERAL NOTES, LEGEND & ABBREVIATIONS
LA-C-503	CIVIL, DRAWING MATRIX
LA-C-504	CIVIL, TYPICAL SECTIONS AND DETAILS
LA-C-505	CIVIL, CORNER STATION PLAN
LA-C-511	CIVIL. SOUTHWEST ARM. PLAN AND PROFILE, STA 0+00 TO STA 14+00
LA-C-512	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 14+00 TO STA 28+00
LA-C-513	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 28+00 TO STA 42+00
LA-C-514	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 42+00 TO STA 56+00
LA-C-515	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 56+00 TO STA 70+00
LA-C-516	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 70+00 TO STA 84+00
LA-C-517	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 84+00 TO STA 98+00
LA-C-518	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 98+00 TO STA 112+00
LA-C-519	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 112+00 TO STA 126+00
LA-C-520	CIVIL, SOUTHWEST ARM, PLAN AND PROFILE, STA 126+00 TO STA 133+00
LA-C-521	CIVIL, SOUTHWEST ARM, PUMP STATION, PLOT AND UTILITY PLAN
27. 0 02.	OZYIZY OOOMANY , OM OMANY , ZON , NO OMZZIN , ZON
LA-C-531	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 0+00 TO STA 14+00
LA-C-532	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 14+00 TO STA 28+00
LA-C-533	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 28+00 TO STA 42+00
LA-C-534	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 42+00 TO STA 56+00
LA-C-535	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 56+00 TO STA 70+00
LA-C-536	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 70+00 TO STA 84+00
LA-C-537	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 84+00 TO STA 98+00
LA-C-538	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 98+00 TO STA 112+00
LA-C-539	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 112+00 TO STA 126+00
LA-C-540	CIVIL, SOUTHEAST ARM, PLAN AND PROFILE, STA 126+00 TO STA 133+00
LA-C-541	CIVIL, SOUTHEAST ARM, PUMP STATION, PLOT AND UTILITY PLAN
STRUCTURAL	
LA-S-501	STRUCTURAL, BEAM TUBE ENCLOSURE, GENERAL NOTES, ABBREVIATIONS & LEGEND
LA-S-502	STRUCTURAL, KEY PLAN OF BEAM TUBE ENCLOSURE & PARTIAL ENLARGED PLANS
LA-S-502A	STRUCTURAL, SOUTHEAST ARM BEAM TUBE ENCLOSURE PARTIAL ENLARGED PLANS
LA-S-503	STRUCTURAL, BEAM TUBE ENCLOSURE PLANS, SECTIONS & DETAILS
LA-S-504	STRUCTURAL, KEY PLAN OF BEAM TUBE ENCLOSURE FOUNDATION & PARTIAL ENLARGED PLANS
LA-S-505	STRUCTURAL, BEAM TUBE ENCLOSURE, SECTIONS & DETAILS, SHEET I
LA-S-506	STRUCTURAL, BEAM TUBE ENCLOSURE, SECTIONS & DETAILS, SHEET 2
LA-S-507	STRUCTURAL, BEAM TUBE ENCLOSURE, MID STATIONS "A" & "B" FOUNDATION PLANS
ELECTRICAL	
LA-E-505	ELECTRICAL, GROUNDING DETAILS
LA-E-507	ELECTRICAL, MID STATION A, GROUNDING & UNDERGROUND PLAN
LA-E-517	ELECTRICAL, MID STATION B, GROUNDING & UNDERGROUND PLAN



LIGO SW NAD 83 LAT: 30° 33'06.89734" N LONG: 90° 48'51.45327" W

N 17º59'46" W -400.00'



COORDINATE TABLE & ELEVATIONS FOR LIGO GPS POINTS GPS POINT ELEVATION 750660. 79279 | 3456770. 41970 738320.57379 3460989.05172 50.1859 744519.64252 3458903.40003 54.8696 750681.37965 3457182.57992 58.6390 748702.39005 *3450520.15899* 62.4526 746819.76529 3444303.96185 *58.6393* A 290 42.1193 41.2794 Y 21 5 294 42.4081

NOTE: GPS COORDINATE POINTS ARE HIGH ACCURACY * LIGO I AND LIGO 3 SHALL BE RE-ESTABLISHED BY CONTRACTOR IN NEW A LOCATION, TO BE DETERMINED.

SURVEY NOTES:

- I. PROPERTY LINE LOCATION AND 'LIGO'ACCESS ROAD RIGHT-OF-WAY ARE BY A SURVEY PERFORMED BY ALEX THERIOT JR & ASSOCIATES, INC., DENHAM SPRINGS, DATED MARCH 12, 1993.
- 2. HORIZONTAL AND VERTICAL CONTROLS ARE FROM A VERNON F. MEYER 'GPS SURVEY', AND ARE AS FOLLOWS: HORIZONTAL CONTROL: ALL BEARINGS AND DISTANCES SHOWN HEREON ARE LAMBERT GRID, NAD 83/92, LOUISIANA SOUTH ZONE (1702).
- ELEVATIONS SHOWN ARE MEAN SEA LEVEL, DATUM NAVD 88
 ELEVATIONS ARE A LEAST SQUARES ADJUSTMENT HOLDING TO NAVD 88 VALUES OF NGS'ADJUSTED
 ELEVATION OF BENCHMARK A 290, Y 21 AND S 294 (VERT. ORDER FIRST CLASS 1) VERTICAL CONTROL:
- 3. CALTECH WILL PROVIDE FIVE (5) 'GPS'SURVEY MONUMENTS FOR INITIAL CONTROL OF THE WORK. ADDITIONAL (APPROXIMATELY 15) FIRST ORDER 'GPS' MONUMENTS ARE NECESSARY TO ACCURATELY PLACE THE EQUIPMENT.
- 4. ROUGH GRADING DRAWINGS WERE BASED ON AN APEX COORDINATE OF N 750662.6458, E 3456770.8116
 THIS ROUGH GRADING APEX POINT, GRID, OR OTHER ROUGH GRADING COORDINATES SHALL NOT BE USED FOR THE CONTROL OF THE WORK IN THIS CONTRACT.

GRAPHIC SCALE

DRAWN WRB 6/24/9 ENGINEER B 7/24/96 WRB WL OB SOM ISSUED FOR BID
A 6/28/96 WRB ML JB TDM FINAL DESIGN REVIEW
NO. DATE BY CHKD ENGR PROJ DESC DRAWING NO.



100 WEST WALNUT STREET PASADENA, CALIFORNIA



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER GRAVITATIONAL-WAVE OBSERVATORY

BEAM TUBE ENCLOSURE - LIVINGSTON, LA

CIVIL DRAWING INDEX LOCATION & VICINITY MAPS

LIGO APEX NAD 83 | LAT: 30° 33'46.6783" N | LONG: 90° 46'27.6499" W

-ACCESS ROAD RIGHT-OF-WAY

N 750,660.7928 E 3,456,770.4197

- S 72°00'09" W 250.00'

5 89°20'02" W-

492.14'

LIGO SE NAD 83

LAT: 30º 31'42.22109" N LONG: 90° 45'41. 71826" W

LA-C-501

DESCRIPTION DESCRIPTION

LIGOLTF3.BDR