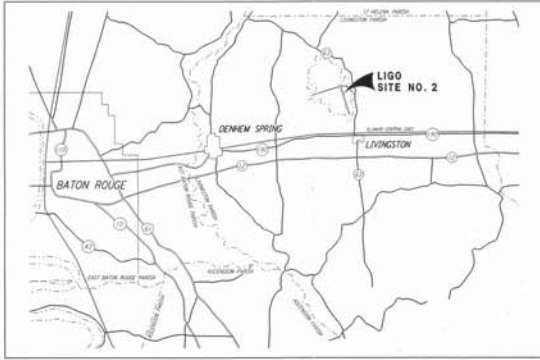


DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
LA-C-001	DRAWING INDEX, LOCATION & VICINITY MAPS
LA-C-002	GENERAL NOTES, LEGEND & ABBREVIATIONS
LA-C-003	DRAWING MATRIX
LA-C-004	TYPICAL SECTIONS AND DETAILS
LA-C-005	CORNER STATION PLOT PLAN
LA-C-006	CORNER STATION PLOT PLAN, ENLARGED PLANS
LA-C-007	CORNER STATION GRADING PLAN
LA-C-008	CORNER STATION GRADING PLAN, ENLARGED PLANS
LA-C-009	CORNER STATION UTILITY PLAN
LA-C-010	CORNER STATION UTILITY PLAN, ENLARGED PLANS
LA-C-011	SOUTHWEST ARM, PLAN AND PROFILE, STA 0+00 TO STA 14+00
LA-C-012	SOUTHWEST ARM, PLAN AND PROFILE, STA 14+00 TO STA 28+00
LA-C-013	SOUTHWEST ARM, PLAN AND PROFILE, STA 28+00 TO STA 42+00
LA-C-014	SOUTHWEST ARM, PLAN AND PROFILE, STA 42+00 TO STA 56+00
LA-C-015	SOUTHWEST ARM, PLAN AND PROFILE, STA 56+00 TO STA 70+00
LA-C-016	SOUTHWEST ARM, PLAN AND PROFILE, STA 70+00 TO STA 84+00
LA-C-017	SOUTHWEST ARM, PLAN AND PROFILE, STA 84+00 TO STA 98+00
LA-C-018	SOUTHWEST ARM, PLAN AND PROFILE, STA 98+00 TO STA 112+00
LA-C-019	SOUTHWEST ARM, PLAN AND PROFILE, STA 112+00 TO STA 126+00
LA-C-020	SOUTHWEST ARM, PLAN AND PROFILE, STA 126+00 TO STA 133+00
LA-C-021	SOUTHWEST ARM, PUMP STATION, PLOT PLAN
LA-C-022	SOUTHWEST ARM, PUMP STATION, GRADING PLAN
LA-C-023	SOUTHWEST ARM, PUMP STATION, UTILITY PLAN
LA-C-025	SOUTHWEST ARM, END STATION, PLOT PLAN
LA-C-026	SOUTHWEST ARM, END STATION, GRADING PLAN
LA-C-027	SOUTHWEST ARM, END STATION, UTILITY PLAN
LA-C-031	SOUTHEAST ARM, PLAN AND PROFILE, STA 0+00 TO STA 14+00
LA-C-032	SOUTHEAST ARM, PLAN AND PROFILE, STA 14+00 TO STA 28+00
LA-C-033	SOUTHEAST ARM, PLAN AND PROFILE, STA 28+00 TO STA 42+00
LA-C-034	SOUTHEAST ARM, PLAN AND PROFILE, STA 42+00 TO STA 56+00
LA-C-035	SOUTHEAST ARM, PLAN AND PROFILE, STA 56+00 TO STA 70+00
LA-C-036	SOUTHEAST ARM, PLAN AND PROFILE, STA 70+00 TO STA 84+00
LA-C-037	SOUTHEAST ARM, PLAN AND PROFILE, STA 84+00 TO STA 98+00
LA-C-038	SOUTHEAST ARM, PLAN AND PROFILE, STA 98+00 TO STA 112+00
LA-C-039	SOUTHEAST ARM, PLAN AND PROFILE, STA 112+00 TO STA 126+00
LA-C-040	SOUTHEAST ARM, PLAN AND PROFILE, STA 126+00 TO STA 133+00
LA-C-041	SOUTHEAST ARM, PUMP STATION, PLOT PLAN
LA-C-042	SOUTHEAST ARM, PUMP STATION, GRADING PLAN
LA-C-043	SOUTHEAST ARM, PUMP STATION, UTILITY PLAN
LA-C-045	SOUTHEAST ARM, END STATION, PLOT PLAN
LA-C-046	SOUTHEAST ARM, END STATION, GRADING PLAN
LA-C-047	SOUTHEAST ARM, END STATION, UTILITY PLAN
LA-C-051	SITWORK DETAILS, SHEET 1
LA-C-052	SITWORK DETAILS, SHEET 2
LA-C-053	GRADING SECTIONS & DETAILS, SHEET 1
LA-C-054	GRADING SECTIONS & DETAILS, SHEET 2
LA-C-055	UTILITY DETAILS



COORDINATE TABLE & ELEVATIONS FOR LIGO GPS POINTS			
GPS POINT	COORDINATES		ELEVATION
	NORTH	EAST	
APEX	750660.79279	3456770.41970	-
LIGO 1 #	738320.57379	3460989.05172	50.1859
LIGO 2	744519.64252	3458903.40003	54.8696
LIGO 3 #	750681.37955	3457182.57992	58.6390
LIGO 4	748702.39005	3450520.15899	62.4526
LIGO 5	746819.78529	3444303.96185	58.6393
A 290	-	-	42.1193
Y 21	-	-	41.2794
S 294	-	-	42.4081

NOTE: GPS COORDINATE POINTS ARE HIGH ACCURACY  
 \* LIGO 1 AND LIGO 3 SHALL BE RE-ESTABLISHED BY CONTRACTOR BY NEW A LOCATION, TO BE DETERMINED.

**SURVEY NOTES:**

- PROPERTY LINE LOCATION AND LIGO ACCESS ROAD RIGHT-OF-WAY ARE BY A SURVEY PERFORMED BY ALEX THEROT JR & ASSOCIATES, INC., DENHAM SPRINGS, DATED MARCH 12, 1993.
- HORIZONTAL AND VERTICAL CONTROLS ARE FROM A VERMON 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 177521.  
 VERTICAL CONTROL: ELEVATIONS SHOWN ARE MEAN SEA LEVEL, DATUM NAVD 83. ELEVATIONS ARE A LEAST SQUARES ADJUSTMENT HOLDING TO NAVD 83 VALUES OF MGS-ADJUSTED ELEVATION OF BENCHMARK A 290, Y 21 AND S 294 (VERT. ORDER - FIRST CLASS 1)
- 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.
- ROUGH GRADING DRAWINGS WERE BASED ON AN APEX COORDINATE OF N 750662.6458, E 3456770.8116. THIS ROUGH GRADING APEX POINT, GRID, OR OTH. ROUGH GRADING COORDINATES SHALL NOT BE USED FOR THE CONTROL OF THE WORK IN THIS CONTRACT.



**LIGO-D960819-01-O**

LASER INTERFEROMETER  
 GRAVITATIONAL-WAVE OBSERVATORY  
**SITE NO. 2 - LIVINGSTON, LOUISIANA**

CIVIL DRAWING INDEX  
 LOCATION & VICINITY MAPS  
**LA-C-001**

100 WEST WALNUT STREET  
 PASADENA, CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ISSUED FOR CONSTRUCTION	
DRAWN	WRB 11/15/96
CHECKED	AK 11/15/96
ENGINEER	JBP 11/15/96
PROJ	TDM 11/15/96
<b>AS-BUILT DRAWINGS</b>	

DRAWING NO.	DESCRIPTION
1	58-07-NB WRB 7/8 11/15/96 ISSUED FOR AS-BUILT

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