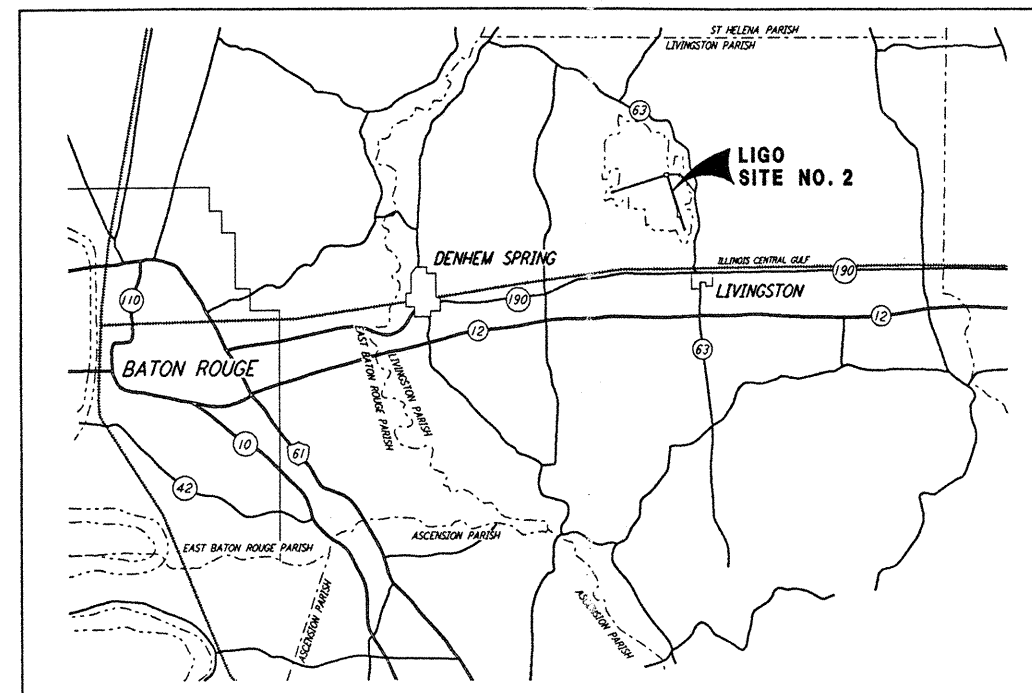


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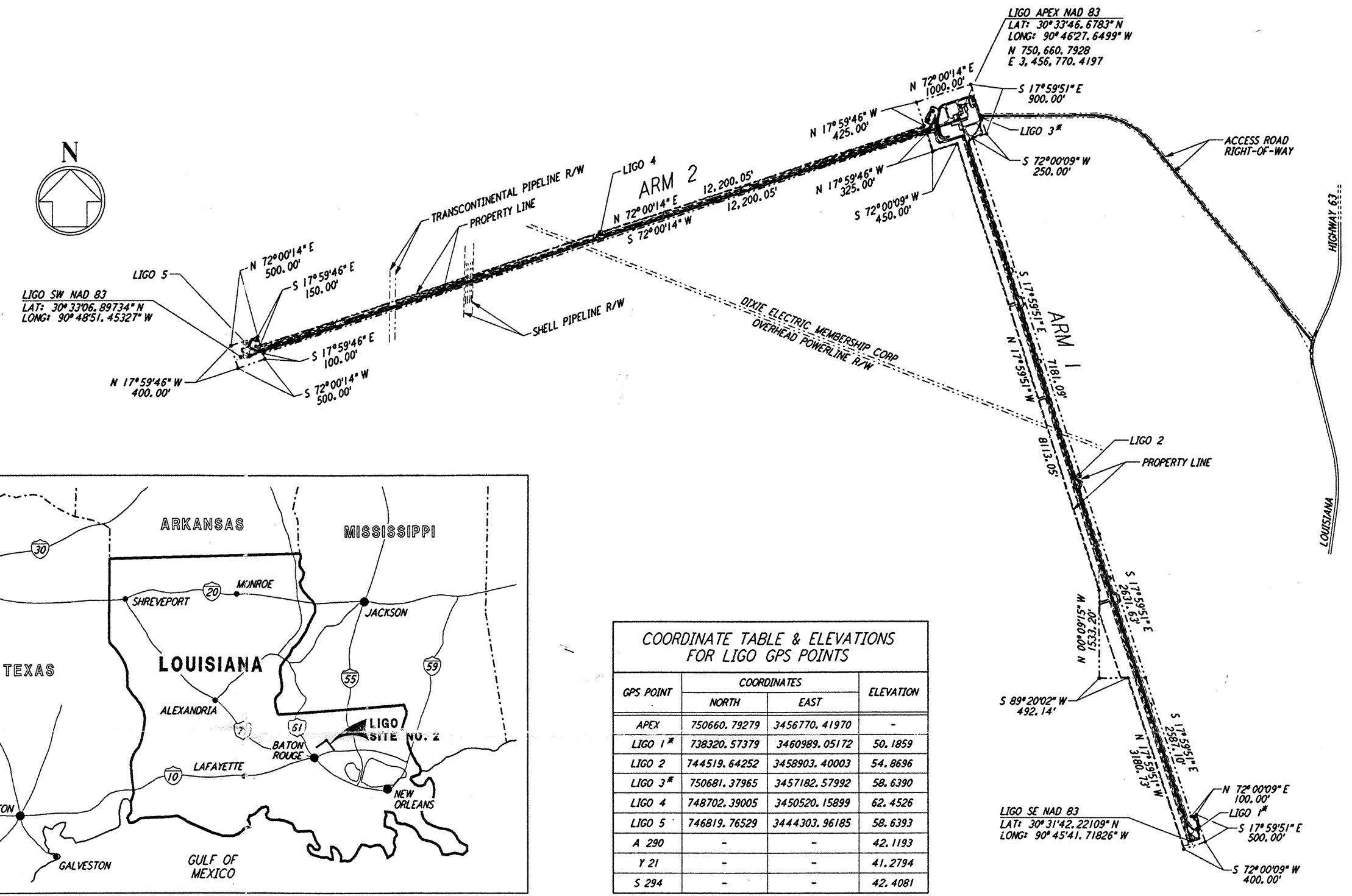
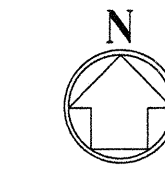
DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
GENERAL	
LA-G-501	GENERAL, COVER SHEET
CIVIL	
LA-C-501	CIVIL, DRAWING INDEX, LOCATION & VICINITY MAPS
LA-C-502	CIVIL, GENERAL NOTES, LEGEND & ABBREVIATIONS
LA-C-503	CIVIL, DRAWING MATRIX
LA-C-504	CIVIL, TYPICAL SECTIONS AND DETAILS
LA-C-505	CIVIL, CORNER STATION 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
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 PLAN
LA-S-502A	STRUCTURAL, SOUTHEAST ARM BEAM TUBE ENCLOSURE PARTIAL ENLARGED PLAN
LA-S-503	STRUCTURAL, BEAM TUBE ENCLOSURE PLANS, SECTIONS & DETAILS
LA-S-504	STRUCTURAL, KEY PLAN OF BEAM TUBE ENCLOSURE FOUNDATION & PARTIAL ENLARGED PLAN
LA-S-505	STRUCTURAL, BEAM TUBE ENCLOSURE, SECTIONS & DETAILS, SHEET 1
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



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

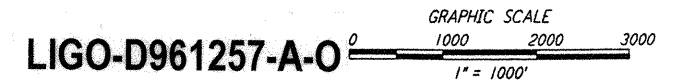


COORDINATE TABLE & ELEVATIONS FOR LIGO GPS POINTS			
GPS POINT	COORDINATES		ELEVATION
	NORTH	EAST	
APEX	750660.79279	3456770.41970	-
LIGO 1#	738320.57379	3460989.05172	50.1859
LIGO 2	744519.64252	3458903.40003	54.8696
LIGO 3#	750681.37965	3457182.57992	58.6390
LIGO 4	748702.39005	3450520.15899	62.4526
LIGO 5	746819.76529	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 IN 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 THERIOT JR & ASSOCIATES, INC., DENHAM SPRINGS, DATED MARCH 12, 1993.
- 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).
VERTICAL CONTROL: 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)
- 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 OTHER ROUGH GRADING COORDINATES SHALL NOT BE USED FOR THE CONTROL OF THE WORK IN THIS CONTRACT.



LIGO-D961257-A-O

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
A	6/28/96	WRB	ML	DM		FINAL DESIGN REVIEW

DRAWN	WRB	6/24/96
CHECKED		
ENGINEER		
PROJ		

100 WEST WALNUT STREET
PASADENA, CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
BTE SITWORK & FABRICATION - LIVINGSTON, LA

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
CIVIL DRAWING INDEX LOCATION & VICINITY MAPS	AS NOTED	PPI 150969	8094
SHEET NUMBER		REVISION	
LA-C-501			

LIGO-D961257-A-O