ABBREVIATIONS

℄	CENTERLINE
Δ	DELTA = ANGLE
E	EAST
ELEV	ELEVATION
EXIST	EXISTING
GB	GRADE BREAK
HORIZ	HORIZONTAL
HP	HIGH POINT
INV	INVERT
L	LENGTH
LAT	LATITUDE
LONG	LONGITUDE
MAX	MAXIMUM
MIN	MINIMUM
MSL	MEAN SEA LEVEL
N	NORTH
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RG	ROUGH GRADE
R/W	RIGHT-OF-WAY
S	SOUTH
STA	STATION
T	TANGENT
TYP	TYPICAL
VERT	VERTICAL
W	WEST
w/	WITH
YR	YEAR

LEGEND

------(60)------	EXISTING CONTOUR
——— 60 ———	PROPOSED CONTOUR (INDEX)
———————	PROPOSED CONTOUR (INTERMEDIATE)
— — — — —	TOP/TOE OF SLOPE
	CONCRETE
	RIP-RAP (CEMENTED)
	RIP-RAP (UN-CEMENTED)
	CULVERTS w/ HEADWALL
59.8 / RG	ROUGH GRADE ELEVATION
INV 54.5	INVERT ELEVATION
SECTION LETTER / SHEET ON WHICH SECTION IS SHOWN	SECTION CUT

GENERAL NOTES

1. 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. THE TOPOGRAPHY WITHIN THE PROPERTY LINES, WAS GENERATED BY COMPUTER METHODS FROM A STAKING SURVEY BY JOHN E. CHANCE & ASSOCIATES, INC., 200 DULLES DRIVE, LAFAYETTE, LOUISIANA, DATED MARCH 8, 1993. TOPOGRAPHY AND PLANIMETRIC FEATURES OUTSIDE THE PROPERTY BOUNDARY ARE BASED ON 'USGS' SATSUMA, LA. QUADRANGLE, DATED 1980.
3. HORIZONTAL AND VERTICAL CONTROLS ARE ALSO FROM THE JOHN E. CHANCE SURVEY DESCRIBED IN NOTE 2, AND ARE AS FOLLOWS:

   HORIZONTAL CONTROL: ALL BEARINGS AND DISTANCES SHOWN HEREON ARE LAMBERT GRID, NAD 83, LOUISIANA SOUTH ZONE. MONUMENTS 'LIGO APEX', 'LIGO SW' & 'LIGO SE' SET FROM GPS CONTROL STATIONS LDH MONUMENTS 32B003 AND 32D002. ALL CONTROL MONUMENTS SET THIS SURVEY ARE $\frac{5}{8}$" REBARS WITH ALUMINUM CAPS.

   VERTICAL CONTROL: ELEVATIONS SHOWN ARE MEAN SEA LEVEL, DATUM NGVD 1929. CONTROL MONUMENTS U.S. DEPT. OF COMMERCE, PBM # S-294, ELEVATION 42.47 FEET.
4. STRAIGHT GRADE BETWEEN SPOT ELEVATIONS, UNLESS OTHERWISE SHOWN ON PLANS.
5. GRADED SURFACES SHALL BE SLOPED UNIFORMILY FROM HIGH POINTS, RIDGE LINES AND AROUND STRUCTURES.
6. WASTE AREAS WILL BE DESIGNATED IN THE FIELD BY THE CONSTRUCTION MANAGER.
7. NOTES RELATING TO A SPECIFIC DRAWING WILL BE FOUND ON THE DRAWING FOR WHICH THEY ARE APPLICABLE.
8. ALL UNDERGROUND PIPES AND CULVERTS SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION FROM HEAVY MOVING EQUIPMENT.
9. DIMENSIONS, ELEVATIONS AND LOCATION OF EXISTING UTILITIES ARE TO BE VERIFIED PRIOR TO START OF CONSTRUCTION BY CONTRACTOR.
10. THE CONTRACTOR SHALL BE REQUIRED TO APPLY A DUST INHIBITOR ON ALL ROADS, AT THE DIRECTION OF THE CONSTRUCTION MANAGER.
11. GEOTECHNICAL INFORMATION AND SOIL BORING SUMMARIES ARE FROM AN INVESTIGATION BY WOODWARD-CLYDE CONSULTANTS, 2822 O'NEAL LANE, BATON ROUGE, LOUISIANA, DATED FEBRUARY, 1995. A COPY OF THIS REPORT IS ON FILE WITH THE CONSTRUCTION MANAGER.
12. DRAINAGE CONSIDERATIONS INCORPORATED WITHIN THE DRAWINGS ARE FROM A HYDROLOGIC AND HYDRAULIC REPORT BY GULF ENGINEERS & CONSULTANTS, INC., 9357 INTERLINE AVENUE, BATON ROUGE, LOUISIANA, DATED DECEMBER, 1994. A COPY OF THIS REPORT IS ON FILE WITH THE CONSTRUCTION MANAGER.
13. THE STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT, OFFICE OF HIGHWAYS, STANDARD PLANS ARE A PART OF THESE DOCUMENTS TO THE EXTENT REFERENCED.
14. THE STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ARE A PART OF THESE DOCUMENTS TO THE EXTENT REFERENCED.

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION & DEVELOPMENT
OFFICE OF HIGHWAYS
STANDARD PLANS

PLAN NO	TITLE
CM - 198	REINFORCED CONCRETE PIPE CULVERT HEADWALLS STRAIGHT WINGS, 18" TO 36" DIA TWO (2), THREE (3) & FOUR (4) OPENINGS
BM - 01	BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES
CM - 49	EXPANSION & CONSTRUCTION JOINTS FOR CONCRETE STRUCTURES
R - P - 67	REINFORCED CONCRETE PIPE CULVERT HEADWALLS STRAIGHT WINGS, 18" TO 60" DIA
CM - 198	REINFORCED CONCRETE PIPE CULVERT HEADWALLS STRAIGHT WINGS, 42" TO 60" DIA TWO (2), THREE (3) & FOUR (4) OPENINGS
R P - 67	STRAIGHT HEADWALL FOR 72" R.C. PIPE ONE (1) THRU SIX (6) OPENINGS

LIGO-D961712-A-U

REVISION NO.	DATE	APRD BY	DESCRIPTION OF REVISION
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ISSUE NO.	DATE	APRD BY	ISSUED FOR
9			
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1	8/11/95	JJB	FINAL DESIGN REVIEW

DATE	8/11/95	
DRAWN	WRB	WRB
CHECKED	MGP	MGP
SECT HD		
PROJ MGR		
CLIENT		

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
ROUGH GRADING - LIVINGSTON, LA

TITLE: ROUGH GRADING GENERAL NOTES, LEGEND & ABBREVIATIONS

SCALE	CONTRACT NUMBER	PROJECT NUMBER
NONE	PP150969	8094

SHEET NUMBER: RG-C-002
REVISIONS

LIGORGF3.BDR

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