

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	MAX	MAXIMUM
AGOR	AGGREGATE	MH	MANHOLE
APPROX	APPROXIMATELY	MIN	MINIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MON	MONUMENT
AVG	AVERAGE		
		N	NORTH
BC	BEGIN CURVE	NIC	NOT IN CONTRACT
BDY	BOUNDARY	NTS	NOT TO SCALE
BLDG	BUILDING		
BM	BENCH MARK		
BOP	BOTTOM OF PIPE BEARING	OC	ON CENTER
BRG		OD	OUTSIDE DIAMETER
BVC	BEGIN VERTICAL CURVE		
		PC	POINT OF CURVE
CB	CATCH BASIN	PCT, %	PERCENT
C	COMMUNICATION	PI	POINT OF INTERSECTION
C TO C	CENTER TO CENTER	PIV	POST INDICATOR VALVE
CF	CURB FACE	PIVC	POINT OF INTERSECTION, VERTICAL CURVE
CJ	CONSTRUCTION JOINT	POC	POINT OF CONNECTION
CL, #	CENTERLINE	POVC	POINT ON VERTICAL CURVE
CLR	CLEAR	PSI	POUND-FORCE PER SQUARE INCH
CLRP	CORRUGATED METAL PIPE	PT	POINT OF TANGENCY
CO	CLEANOUT, CONDUIT ONLY, CONTRACTION JOINT	PVC	POLYVINYL CHLORIDE
		PVMT	PAVEMENT
		PW	POTABLE WATER
COL	COLUMN		
CONC	CONCRETE	R	RADIUS, RIDGE
CONSTR	CONSTRUCTION		
CONT	CONTINUATION	RAD	RADIAL
CP	CONCRETE PIPE	RCP	REINFORCED-CONCRETE PIPE
CPB	COMMUNICATIONS PULLBOX	RD	ROAD
CS	CARBON STEEL	REDCR	REDUCER
CU FT	CUBIC FEET	REF	REFERENCE
CULV	CULVERT	REINF	REINFORCEMENT
CWR	CHILLED WATER RETURN	REQD	REQUIRED
CWS	CHILLED WATER SUPPLY	REV	REVISION
CY	CUBIC YARD	RG	ROUGH GRADE
		R/W	RIGHT-OF-WAY
		S	SLOPE, SOUTH
Δ	DELTA = ANGLE	SCH, SCHED	SCHEDULE
D	DEGREE	SD	STORM DRAIN
DET	DETAIL	SG	SUBGRADE
DI	DUCTILE IRON	SHT	SHEET
DIA, Ø	DIAMETER	SIM	SIMILAR
DL	DRAIN LINE	SO FT, SF	SQUARE FOOT
DWG	DRAWING	SS	SANITARY SEWER
		STA	STATION
E	EAST, ELECTRICAL	STD	STANDARD
EA	EACH	STL	STEEL
EC	END CURVE	SW	SIDEWALK
EDB	ELECTRICAL DUCT BANK		
EJ	EXPANSION JOINT	T	TANGENT, TELEPHONE
EL, ELEV	ELEVATION (HEIGHT)	TC	TOP OF CURB
ELEC	ELECTRICAL	TEL	TELEPHONE
ELL	ELBOW	TG	TOP OF GRATE
EMH	ELECTRICAL MANHOLE	TOC	TOP OF CONCRETE
EPB	ELECTRICAL PULLBOX	TOP	TOP OF PIPE
EV	ELECTRICAL VAULT	TOPO	TOPOGRAPHY
EVC	END VERTICAL CURVE	TW	TOP OF WALL
EW	EACH WAY	TYP	TYPICAL
EXIST, EX	EXISTING		
		UG	UNDERGROUND
FH	FIRE HYDRANT	UCON	UNLESS OTHERWISE NOTED
FIN	FINISH		
FIN FL	FINISH FLOOR	VC	VERTICAL CURVE
FG	FINISH GRADE	VCP	VITRIFIED CLAY PIPE
FL	FLOOR, FLOW LINE	VOL	VERTICAL VOLUME
FLG	FLANGE		
FOF	FACE OF FLANGE	W	WEST, WATER
FS	FINISH SURFACE	W/O	WITHOUT
FT	FOOT, FEET	WW	WASTE WATER
FTG	FOOTING	WWF	WELDED WIRE FABRIC
FW	FIRE WATER		
		XFMR	TRANSFORMER
GALV	GALVANIZED	YD	YARD
GA	GAGE		
GB	GRADE BREAK		
GPM	GALLONS PER MINUTE		
GR	GRADE		
GVL	GRAVEL		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
ID	INSIDE DIAMETER		
INCH	INCH		
INCL	INCLUDE		
INTSCT	INTERSECTION		
INV	INVERT		
JB	JUNCTION BOX		
JT	JOINT		
L	LENGTH		
LA DOTD	STATE OF LOUISIANA, DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT		
LB	POUND		

LEGEND

EXISTING	NEW	DESCRIPTION
		CENTERLINE, #
		BUILDING OR STRUCTURE
		FENCE LINE
		ROAD
		ASPHALT CONCRETE PAVING
		MULTIPLE BITUMINOUS SURFACE
		CONCRETE
		RIP-RAP
		DIRECTION OF SHEET FLOW
		FLOWLINE
		CLEANOUT
		DRAIN LINE
		POTABLE WATER
		ELECTRICAL
		ELECTRICAL DUCT BANK
		STORM DRAIN
		SANITARY SEWER
		TELEPHONE
		WATER
		FIRE WATER
		CHILLED WATER SUPPLY
		CHILLED WATER RETURN
		COMMUNICATIONS
		COMMUNICATIONS OR ELECTRICAL PULLBOX
		ELECTRICAL VAULT OR MANHOLE
		FIRE HYDRANT
		GATE VALVE
		MANHOLE
		STORM DRAIN CATCH BASIN
		CULVERT
		CULVERTS w/ FLARED END OUTLET
		POWER POLE
		GUARD POST
		PLUG OR CAP
		INDEX CONTOUR LINE
		INTERMEDIATE CONTOUR LINE
		CUT/FILL SLOPE
		FINISH GRADE ELEVATION
		FINISH SURFACE ELEVATION
		FLOW LINE ELEVATION
		TOP OF CURB
		TOP OF WALL
		INVERT ELEVATION
		ROUGH GRADE ELEVATION
		SECTION CUT
		DETAIL INDICATION
		DETAIL TITLE
		PROFILE
		REVISION CLOUD

GENERAL NOTES

1. THE ORIGINAL 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. ROUGH GRADING ACTIVITIES BASED ON THE AFOREMENTIONED TOPOGRAPHY FOR THE BEAM TUBE ARMS, CORNER STATION AND END STATIONS PADS WAS ACCOMPLISHED BY STRAINED CONSTRUCTION IN ACCORDANCE WITH PLANS PREPARED BY PARSONS AND FORMS THE PRIMARY TOPOGRAPHY SHOWN ON THE FACILITY DRAWINGS.
2. 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.
3. 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.
4. DIMENSIONS, ELEVATIONS AND LOCATION OF EXISTING UTILITIES, STRUCTURES, OR GRADING ARE TO BE VERIFIED PRIOR TO START OF CONSTRUCTION BY CONTRACTOR. ANY DISCREPANCY WITH THE DRAWINGS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE CONSTRUCTION MANAGER. ANY ADDITIONAL WORK PERFORMED BY THE CONTRACTOR DUE TO HIS FAILURE TO VERIFY AND SO ADVISE, SHALL BE COMPLETELY AT HIS OWN COST AND AT NO COST TO THE INSTITUTE.
5. NOTES RELATING TO A SPECIFIC DRAWING WILL BE FOUND ON THE DRAWING FOR WHICH THEY ARE APPLICABLE.
6. ALL UNDERGROUND PIPES AND CULVERTS SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION FROM HEAVY MOVING EQUIPMENT.
7. THE CONTRACTOR SHALL BE REQUIRED TO APPLY A DUST INHIBITOR ON ALL ROADS, AT THE DIRECTION OF THE CONSTRUCTION MANAGER.
8. WASTE AREAS WILL BE DESIGNATED IN THE FIELD BY THE CONSTRUCTION MANAGER.
9. STRAIGHT GRADE BETWEEN SPOT ELEVATIONS, UNLESS OTHERWISE SHOWN ON PLANS.
10. FINISHED SURFACES SHALL BE SLOPED UNIFORMLY FROM HIGH POINTS, RIDGE LINES, AND AROUND FOUNDATIONS TO FLOW LINES AND AREA DRAINS UNLESS INDICATED OTHERWISE.
11. STORM DRAIN, SANITARY SEWER, AND UTILITY LINES SHALL BE SLOPED AT A UNIFORM GRADE BETWEEN INVERT ELEVATIONS.
12. SEEDING SHALL NOT BE DONE ON THE FLAT BOTTOM OF DITCHES OR ON CURRENTLY GRASSED AREAS THAT ARE UNDISTURBED BY GRADING OPERATIONS. ALL OTHER AREAS SHALL BE SEEDDED.
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.

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REVISED											
NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION					
B	7/24/96	WRB	ML	CP	SDM	ISSUED FOR BID					
A	6/28/96	WRB	ML	JB	TDM	FINAL DESIGN REVIEW					
DRAWING NO.	DESCRIPTION										

DRAWN	WRB	6/24/96
CHECKED		
ENGINEER		
PROJ		

PARSONS
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 PASADENA, CALIFORNIA

LIGO
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 BEAM TUBE ENCLOSURE - LIVINGSTON, LA

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
	NONE	PPI50969	8094
CIVIL GENERAL NOTES, LEGEND & ABBREVIATIONS		SHEET NUMBER	REVISIONS
		LA-C-502	

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