

GENERAL NOTES

- GRID PROJECTION BASED UPON LOUISIANA (LAMBERT) PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- THE AERIAL IMAGES WERE TAKEN IN DECEMBER, 2008
- CONTRACTOR SHALL COMPLY WITH ALL CONTRACT, LANDOWNER, ENVIRONMENTAL, PERMIT AND IMPLEMENTATION PLAN REQUIREMENTS EVEN IF NOT SHOWN ON DRAWINGS.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL TRAFFIC CONTROL REQUIREMENTS INCLUDING THE DEVELOPMENT OF TRAFFIC CONTROL PLANS, I.E., FLAG PERSONS, WARNING SIGNS AND EMERGENCY FENCED AREAS. (ORANGE PLASTIC FENCE)
- ALL PIPING AND MATERIALS AS WELL AS ALL WORK TO BE PERFORMED AS SHOWN ON ALL DRAWINGS. SHALL BE IN COMPLIANCE WITH TITLE 49 OF THE CODE OF FEDERAL REGULATIONS, PART 192 - TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINES; MINIMUM FEDERAL SAFETY STANDARDS AND THE LATEST AMENDMENTS THERETO, ISSUED BY THE DEPARTMENT OF TRANSPORTATION RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, OFFICE OF PIPELINE SAFETY. IN ADDITION, ALL FABRICATIONS SHALL COMPLY WITH ASME/ANSI B31.8 CODE. API 1104 WILL APPLY FOR WELDING QUALIFICATIONS AND PROCEDURES.
- THE PIPELINE IS TO COMPLY WITH THE 19TH EDITION OF API 1104 AND THE LATEST EDITION OF ASME B31.8 CODE, AND WILL APPLY FOR WELDING AND PROCEDURE QUALIFICATIONS. 100% X-RAY OR AUT OF WELDS ARE REQUIRED.
- THE PIPELINE SHALL BE HYDROSTATICALLY TESTED FOR EIGHT (8) CONTINUOUS HOURS AT A MINIMUM TEST PRESSURE NOTED ON THE DRAWINGS AND SHALL NOT EXCEED 105% SMYS OF THE THINNEST WALL PIPE. HEAD PRESSURE FROM GROUND ELEVATION CHANGES SHALL BE TAKEN INTO ACCOUNT.
- HORIZONTAL DIRECTIONAL DRILLS (HDD) SHALL BE PRE-TESTED FOR FOUR (4) HOURS AS NOTED ON DRAWINGS.
- THE LONGITUDINAL SEAMS OF LINE PIPE SHALL BE STAGGERED TO A 10 O'CLOCK AND 2 O'CLOCK POSITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURANCE OF SAFE WORKING CONDITIONS, WHICH WILL MEET OR EXCEED INDUSTRY STANDARDS, REGULATORY REQUIREMENTS, COMPANY SPECIFICATIONS AND ANY OTHER STANDARDS REQUIRED BY CONTRACT.
- CONTRACTOR SHALL RESTRICT ACCESS OF ALL EQUIPMENT AND WORK ACTIVITY ALONG THE PIPELINE ROUTE TO THE DESIGNATED WORK SPACE AND THE RIGHT OF WAY.
- NO DEVIATIONS FROM THESE DRAWINGS OR SUPPORTING SPECIFICATIONS MAY BE MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM COMPANY'S PROJECT MANAGER.
- CONTRACTOR SHALL SUPPLY, INSTALL AND MAINTAIN SEDIMENT CONTROL DEVICES ALONG DOWN GRADIENT SIDES OF WORK AREAS AS REQUIRED BY COMPANY.
- PIPELINE WARNING SIGNS TO FACE WATERWAY, AS APPROPRIATE.
- ETC TIGER PIPELINE PERSONNEL WILL MAKE ARRANGEMENTS WITH THE FOREIGN PIPELINE OWNERS FOR INSTALLATION OF TEST LEAD WIRES ON THE FOREIGN PIPELINE. CONTRACTOR SHALL NOT INSTALL TEST LEAD WIRES ON FOREIGN PIPELINES.
- BURIAL DEPTH OF THE 42" ETC TIGER PIPELINE SHALL BE A MINIMUM OF 3' OR AS SHOWN ON ALIGNMENT OR PERMIT DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINES AND CABLE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- ANY DAMAGE TO PIPE COATING SHALL BE REPAIRED OR REPLACED BY CONTRACTOR ACCORDING TO COMPANY SPECIFICATIONS.
- CONTRACTOR SHALL DISPOSE OF DRILLING MUD AT SITES PRE-APPROVED BY COMPANY.
- PRIOR TO PIPE PULL BACK AND INSTALLATION, CONTRACTOR'S ACTUAL DRILL PROFILE SHALL BE SUBMITTED TO COMPANY FOR APPROVAL.
- CONTRACTOR SHALL HANDLE AND CONTAIN INADVERTENT RELEASES OF DRILLING MUD IN ACCORDANCE WITH PROJECT SCOPE OF WORK.
- ALL ABOVE GROUND OBSTRUCTIONS WITHIN THE WORKSPACE SHALL BE SURROUNDED OR MARKED WITH ORANGE SAFETY FENCE.
- ALL OVERHEAD POWER LINES SHALL BE MARKED WITH SAFETY SIGNS.
- CONTRACTOR SHALL RETURN ALL AREAS DISTURBED DURING PROJECT ACTIVITIES TO PRECONSTRUCTION CONTOURS, REVEGETATED, AND STABILIZED PER THE PROJECT-SPECIFIC SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURE (SPCC) PLAN, AND ALL APPLICABLE PERMITS AS APPROPRIATE.
- BEFORE ANY CONSTRUCTION COMMENCES, THE LIMITS OF ACCESS ROADS TO THE EXTRA WORK SPACE (EWS) WILL BE STAKED IN THE FIELD BY THE COMPANY. IF ACCESS ROADS ARE LOCATED IN WETLANDS THEY MUST BE INSTALLED USING EQUIPMENT MATS ONLY. WHEN CONSTRUCTION ACTIVITIES ARE COMPLETED AT THE EWS, THE TEMPORARY ACCESS ROADS (EQUIPMENT MATS) MUST BE REMOVED AND THE DISTURBED AREAS, INCLUDING THE EWS, RESTORED TO PRE-CONSTRUCTION CONTOURS, STABILIZED AND RESEEDED PER COMPANY REQUIREMENTS.
- ADEQUATE SPILL CONTAINMENT PROVISIONS MUST BE MAINTAINED ON ALL EQUIPMENT. EQUIPMENT SHALL BE INSPECTED DAILY OR AT SHIFT CHANGES FOR FLUID LEAKS. ANY FLUID LEAKS DETECTED SHALL BE CORRECTED IMMEDIATELY. ADEQUATE SPILL CLEANUP MATERIALS SHALL BE UTILIZED TO CONTAIN AND PREVENT THE DISPERSAL OF ANY REPORTABLE SPILL OF CONTAMINANTS.
- CONTRACTOR SHALL MAKE EFFORTS TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AT A CONSTRUCTION ENTRANCE. CONTRACTOR SHALL REMOVE ANY SOIL TRACKED ONTO A PAVED ROAD USING APPROPRIATE EQUIPMENT. AT A MINIMUM, CONSTRUCTION ENTRANCES WILL BE MONITORED DAILY, GENERALLY AT THE END OF A WORKING SHIFT, TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE.
- THE ALIGNMENT AND HDD DRAWINGS REPRESENT THE DESIGN AND CONSTRUCTION DETAILS BASED UPON SURVEY INFORMATION PROVIDED BY GULLET & ASSOCIATES, INC. THESE DRAWINGS ARE NOT PRESENTED AS SURVEYING DOCUMENTS.

**GENERAL ENVIRONMENTAL NOTES
HORIZONTAL DIRECTIONAL DRILL**

GENERAL REQUIREMENTS

- STAY WITHIN THE APPROVED WORK AREAS. THIS INCLUDES THE STAKED RIGHT-OF-WAY (ROW), EXTRA WORKSPACE AREAS, AND APPROVED ACCESS ROADS. ALL PROJECT ACTIVITIES ARE LIMITED TO THESE APPROVED AREAS, INCLUDING PARKING, MATERIAL STOCKPILING, AND EQUIPMENT STORAGE OR MAINTENANCE.
- RESTRICTED AREAS HAVE BEEN FENCED OFF TO PROTECT SENSITIVE RESOURCES AND PREVENT ACCESS. DO NOT ENTER RESTRICTIVE AREAS FOR ANY REASON.
- DO NOT LITTER.

CLEARING AND GRADING

- MINIMIZE CLEARING AND GRADING. IF YOU DON'T NEED IT, DON'T DISTURB IT.
- REFERENCE SITE-SPECIFIC DRAWINGS FOR CLEARING RESTRICTIONS.
- AS NECESSARY, CUT TREES AND VEGETATION AT GROUND LEVEL LEAVING THE ROOT SYSTEMS IN PLACE (UNLESS GRADING IS NEEDED). FELL TREES AND VEGETATION TOWARD THE ROW TO PREVENT DAMAGE TO VEGETATION OUTSIDE THE WORK AREA.
- REMOVE ALL CUT TREES AND BRANCHES.

EROSION CONTROL

- INSTALL EROSION CONTROL STRUCTURES AFTER CLEARING VEGETATION AND BEFORE GRADING. PLACE THESE STRUCTURES BETWEEN ALL DISTURBED AREAS AND PROTECTED RESOURCES, SUCH AS STREAMS AND WETLANDS.
- USE EROSION CONTROL STRUCTURES TO PREVENT STOCKPILED SOIL OR MUD FROM LEAVING THE WORK AREA OR ENTERING SENSITIVE RESOURCE AREAS.
- INSTALL SILT FENCE AND HAY BALES PROPERLY.
- INSPECT AND MAINTAIN EROSION CONTROL STRUCTURES DAILY IN AREAS OF ACTIVE CONSTRUCTION.
- STABILIZE TOPSOIL AND SPOIL STOCKPILES AS NEEDED, AND UNDER THE DIRECTION OF THE ENVIRONMENTAL INSPECTOR.

DRILLING MUD

- KEEP ALL DRILLING MUD CONTAINED WITHIN THE ROW.
- CONTINUOUSLY MONITOR THE DRILLING OPERATION ON A REGULAR BASIS FOR POSSIBLE FRAC-OUTS SO THAT THEY MAY BE RESPONDED TO IMMEDIATELY.
- REPORT ALL FRAC-OUTS IMMEDIATELY TO THE ENVIRONMENTAL INSPECTOR.
- IN THE EVENT OF A FRAC-OUT, IMMEDIATELY CONTAIN IT USING HAY BALES, SILT FENCE, AND/OR DIKES.
- REMOVE ANY MUD USING EITHER HAND TOOLS OR A VACUUM TRUCK.
- DISPOSE OF DRILLING MUD IN APPROVED LOCATIONS.

HAZARDOUS MATERIAL

HAZARDOUS MATERIALS INCLUDE FUELS, PAINTS, OILS, HYDRAULIC FLUIDS, AND SOLVENTS.

- DO NOT STORE HAZARDOUS MATERIALS OR REFUEL OR SERVICE EQUIPMENT WITHIN 100 FEET OF ANY RIVER OR WETLAND, UNLESS UNDER THE DIRECT SUPERVISION OF THE ENVIRONMENTAL INSPECTOR OR APPROVED VARIANCE.
- KEEP SPILL RESPONSE EQUIPMENT ON SITE.
- IF A SPILL OCCURS, FOLLOW APPROVED PROCEDURES TO CONTAIN AND CLEAN UP THE SPILL AND ANY CONTAMINATED SOIL AND IMMEDIATELY NOTIFY ETC AND THE ENVIRONMENTAL INSPECTOR.

ENVIRONMENTAL INSPECTOR

THE ENVIRONMENTAL INSPECTOR WILL BE AVAILABLE TO ANSWER QUESTIONS AND PROVIDE GUIDANCE REGARDING THE ENVIRONMENTAL REQUIREMENTS.

BE AWARE: THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO STOP WORK AND ORDER CORRECTIVE ACTIONS IF RESOURCES ARE THREATENED OR PERMIT CONDITIONS ARE VIOLATED.

STRAW/BALE INSTALLATION

INSTALLATION REQUIREMENTS

- PLACE BALES:
 - WITH BINDINGS OFF THE GROUND TO PREVENT DETERIORATION
 - BETWEEN DISTURBED AREAS AND DOWN-SLOPE ENVIRONMENTAL RESOURCES.
 - AT THE BASE OF ALL SLOPES NEXT TO WETLANDS.
 - AT THE INLET AND OUTLET OF OPEN DRAINAGE STRUCTURES
 - SUFFICIENTLY BEYOND THE TOE OF THE SLOPE TO GIVE THE SEDIMENT ROOM TO POND AND COLLECT.

MAINTENANCE

- INSPECT BALES:
 - DAILY IN AREAS OF ACTIVE CONSTRUCTION
 - WEEKLY IN AREAS OF NO CONSTRUCTION OR EQUIPMENT OPERATION
 - WITHIN 24 HOURS OF EACH 0.5 INCH OF RAINFALL
- REPAIR OR REPLACE BALES AS NEEDED.
- REMOVE ACCUMULATED SEDIMENTS AS NEEDED.

ENVIRONMENTAL INSPECTOR

THE ENVIRONMENTAL INSPECTOR WILL BE AVAILABLE TO ANSWER QUESTIONS AND PROVIDE GUIDANCE REGARDING THE ENVIRONMENTAL REQUIREMENTS.

SILT FENCE INSTALLATION

INSTALLATION REQUIREMENTS

- PLACE SILT FENCE:
 - BETWEEN DISTURBED AREAS AND DOWN-SLOPE ENVIRONMENTAL RESOURCES
 - AT THE BASE OF ALL SLOPES NEXT TO WETLANDS
 - AT THE BASE OF ALL SLOPES NEXT TO ROAD CROSSINGS
 - AT THE INLET AND OUTLET OF OPEN DRAINAGE STRUCTURES
 - SUFFICIENTLY BEYOND THE TOE OF THE SLOPE TO GIVE THE SEDIMENT ROOM TO POND AND COLLECT.
- USE SANDBAGS OR BACKFILLING TO KEY IN THE BOTTOM OF THE FENCE IN AREAS WHERE IT IS NOT FEASIBLE TO TRENCH IT IN (LEDGES, ROCKY SOIL, LARGE TREE ROOTS, ETC.)

MAINTENANCE

- INSPECT SILT FENCE:
 - DAILY IN AREAS OF ACTIVE CONSTRUCTION
 - WEEKLY IN AREAS OF NO CONSTRUCTION OR EQUIPMENT OPERATION
 - WITHIN 24 HOURS OF EACH 0.5 INCH OF RAINFALL
- REPAIR OR REPLACE SILT FENCE AS NEEDED.
- REMOVE ACCUMULATED SEDIMENTS AS NEEDED.

ENVIRONMENTAL INSPECTOR

THE ENVIRONMENTAL INSPECTOR WILL BE AVAILABLE TO ANSWER QUESTIONS AND PROVIDE GUIDANCE REGARDING THE ENVIRONMENTAL REQUIREMENTS.

LEGEND

PERMANENT EASEMENT		PROPOSED TIGER PIPELINE		MLV	
TEMPORARY WORKSPACE		FOREIGN PIPELINE		MILE POST	
ADDITIONAL TEMPORARY WORKSPACE		WATERLINE		AERIAL MARKER	
FORESTED WETLANDS		POWERLINE		LINE LIST NUMBER	TH-PA-100.000
EMERGENT WETLANDS		TRANSMISSION LINE		EXISTING POWER POLE	
CYPRESS WETLANDS		CABLE		2 WIRE TEST STATION	
POND		FENCE		SINGLE PIPELINE TEST STATION (2 TERMINAL BOX)	
PERENNIAL STREAM		ROAD		MULTIPLE PIPELINE TEST STATION (6 TERMINAL BOX)	
INTERMITTENT/EPHEMERAL STREAM		RAILROAD		MULTIPLE PIPELINE TEST STATION (11 TERMINAL BOX)	
CANAL		PROPERTY LINE		PIPELINE WARNING SIGN	
UPLAND DRAINAGE		TRACT LINE		HDD BENCH MARK	
TREELINE		STATE LINE OR PARISH LINE			
HIGH BANK STREAM		SURVEY LINE (TEXAS ONLY)			
TOE/TOP OF SLOPE		TOWNSHIP & RANGE LINE			
		SECTION			

DWG. NO.	0	ISSUED FOR CONSTRUCTION	NO.	LRW	3-10	JHR	APP'D	DWG. STATUS	CHECKED	APPROVED	P.L./STA. ACCT. NO.	PREPARED BY	<p>ETC TIGER PIPELINE PROPOSED 42" O.D. GAS PIPELINE NOTES AND LEGEND MP 0.0 TO MP 175.0 PANOLA COUNTY, TX TO RICHLAND/FRANKLIN PARISH, LA</p>	PREVIOUS DWG. NO.	REV.	
REFERENCE DRAWING TITLE		REVISION - DESCRIPTION		BY	DATE	APP'D		BY	DATE	BY	DATE	FILE NO.		DRAWING NO.		
								PREL'Y	LS	11-09	LB	11-09		CONSTRUCTION YEAR	P1-3	
								CONSTR.	LS	3-10	LB	3-10		DESIGN	JHR	11-17-09
								CADDS					DRAWN	VDC	11-17-09	
													ASBUILT			
													SCALE	NONE		

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