

SN 13357



Williams Field Services
Gulf Coast Company, L.P.
P.O. Box 645
Tulsa, Oklahoma 74101-0645
1800 South Baltimore
Tulsa, Oklahoma 74119-5284
918/581-1800
918/560-9115 fax

April 20, 2001

Mr. Donald C. Howard
Regional Supervisor
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Alex Alvarado - MS 5232

RE: Application for 12-Inch Natural Gas Right-of-Way Pipeline To Be Installed In Block 261,
Main Pass Area, OCS Federal Waters, Gulf of Mexico, Offshore, Louisiana

Gentlemen:

Pursuant to the authority granted in Section 5 (e) of the Outer Continental Shelf Lands Act (67 Stat. 462) (43 U.S.C. 1331), as amended (92 Sta. 629), and in compliance with the regulations contained in Title 30 CFR, Part 250, Subpart J, Williams Field Services - Gulf Coast Company, L. P., (Williams) is filing this application in quadruplicate (original and three copies) for a right-of-way easement two hundred feet (200') in width for the construction, maintenance and operation of a 16-inch natural gas right-of-way pipeline to be installed in Block 261, Main Pass Area, located in OCS Federal Waters, Offshore, Louisiana. Williams agrees that said right-of-way, if approved, will be subject to the terms and conditions of said regulations.

The proposed 12-inch pipeline will transport natural gas. It will originate at Williams' proposed platform in Block 261 (Lease OCS-G 13035) and proceed in a northwesterly direction approximately 7282.94 feet (1.38 miles) to Devon SFS Operating, Inc's existing Platform "A", also in Block 261, all being located in Main Pass Area, for ultimate delivery to shore.

Williams Field Services - Gulf Coast Company, L.P. will employ Williams Field Services as operator of the subject right-of-way pipeline.

The calculated worst case discharge from the proposed pipeline is less than 1000 barrels. Therefore, Certification of Oil Spill Financial Responsibility is not required.

Additionally, a review of our Regional Oil Spill Response Plan to determine if installation of the subject right-of-way pipeline affects the current worst case discharge is not applicable.

Minerals Management Service
12-Inch Natural Gas Right-of-Way Pipeline
Block 261, Main Pass Area
April 20, 2001

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Installation of the proposed pipeline will be accomplished by utilizing a typical lay/bury barge(s). Water depth along the pipeline route varies from 299-feet to 282-feet. Therefore, the pipeline will be laid on the seafloor.

There are four foreign pipeline crossings along the pipeline route. The pipelines will be separated by two layers of 9-inch thick concrete mats, thereby maintaining 18-inches of separation.

The risers at both platforms in Main Pass 261 will be installed inside a leg of the structure.

Williams hereby requests a waiver from NTL 98-20, Section IV.B, which requires the buoing of all existing pipeline(s) and other potential hazards located within 150 meters (490) feet of the proposed operations. Utilizing the on-board graphic system during construction operations, Williams will comply with the recommended avoidance criteria for the magnetic anomalies along the proposed pipeline route identified in the Fugro Geoservices, Inc. Pipeline Pre-Lay Survey Report.

The proposed construction operations will be supported by a crewboat and tug, each making approximately seven (7) trips per week, respectively, from an onshore facility located in Venice, Louisiana.

Williams anticipates commencing installation on approximately July 9, 2001, with an overall completion of project time being estimated at nine (9) days.

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the OCS Lands Act (43 U.S.C. 1331, et. seq.), as amended (P.L. 95-372), including the following: Sec. 5(e) addressing pipeline rights-of-way, requirements of the Federal Energy Regulatory Commission relating to notice of hearing, transportation and purchase of oil and gas without discrimination; Sec. 5(f)(1) addressing operation of pipelines in accordance with competitive principles, including open and nondiscriminatory access to both owner and non-owner shippers; Sec. 5(f)(2) which may allow exemption of the requirements in Sec. 5(f)(1); Sec. 5(e) addressing the assuring of maximum environmental protection, including the safest practices for pipeline installation; and Sec. 5(f)(1)(B) which may require expansion of throughput capacity of any pipeline except for the Gulf of Mexico or the Santa Barbara Channel.

Additionally, we expressly agree that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right-of-way, we shall report immediately such findings to the Director, Gulf of Mexico OCS Region, and make every reasonable effort to preserve and protect the cultural resource from damage until said Director has given directions as to its preservation.

Minerals Management Service
12-Inch Gas Right-of-Way Pipeline
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In accordance with applicable regulations, we have forwarded information regarding the proposed project by certified mail, return receipt requested, to each designated oil and gas lease operator, right-of-way or easement holder whose lease, right-of-way or easement is so affected. A list of such designated operators, right-of-way or easement holders is included as Attachment A and copies of the return receipts showing date and signature as evidence of service upon such operators, right-of-way or easement holders will be forwarded to your office when received.

In order to expedite the permit process, we have requested a letter from the operator, right-of-way or easement holder expressing no objection to the proposed project. When obtained, these letters will be forwarded to your office. The proposed right-of-way does not adjoin or subsequently cross state submerged lands.

Applicant agrees to be bound by the foregoing regulations, and further agrees to comply with the applicable stipulations as set forth in Title 30 CFR 250 (Subpart J) and that certain Letter to Lessees dated April 18, 1991.

In support of our application and for your review and use, the following maps, drawings and documents have been enclosed herewith and made a part hereof:

1. Originally signed copy of Nondiscrimination in Employment Stipulation is attached to each copy of the application.
2. Designated Oil & Gas Lease Operators and Right-Of-Way Holders (Attachment A).
3. General Information and Calculations for Design and Construction of 12-Inch Natural Gas Pipeline.
4. Plan and Profile Pipeline Route Map (Sheets 1 through 2 of 2).
5. Pipeline Safety Flow Schematic (Drawing No. 901).
6. Foreign Pipeline Crossing Drawing.
7. Riser Detail Drawings at proposed Canyon Station Platform in Main Pass 261 (Drawing Nos. 88-2365-s10-09-163 and 164).
8. Subsea Tie-In Assembly Details (Drawing No. 9002).
9. Riser Sections and Details Drawing at existing Platform "A" in Main Pass 261 (Drawing No. 125).

Minerals Management Service
12-Inch Natural Gas Right-of-Way Pipeline
Block 261, Main Pass Area
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10. 3-1/2-inch diskette of the proposed pipeline route.
11. Check in the amount of \$2365.00 cover the application fee of \$2350 plus \$15.00 for the first year rental on 38 miles of right-of-way.
12. **Note: Please refer to the application for 12-inch pipeline from Canyon Station Platform to a subsea tie-in point on Viosca Knoll Gathering Company's existing 20-inch line for 3 copies of the Hazardous Survey Report. This report covers Williams proposed Canyon Station Platform and all four departing pipelines in Main Pass Block 261.**

Contact on technical points or other information:

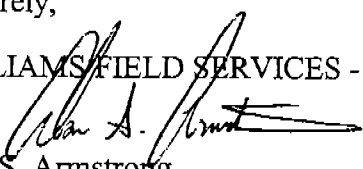
Wanda E. Richmond
J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700
Houston, Texas 77084
Telephone: (281) 578-3388; email address:wanda@jccteam.com

Williams hereby agrees to keep open at all reasonable times for inspection by the Minerals Management Service, the area covered by this right-of-way and all improvements, structures, and fixtures thereon and all records relative to the design, construction, operation, maintenance, and repairs, or investigations on or with regard to such area."

Please refer to your New Orleans Miscellaneous File No. 02385 for a copy of a resolution approved by the Board of Directors authorizing the undersigned to sign for and on behalf of Williams Field Services - Gulf Coast Company, L.P. Additionally, Williams Field Services - Gulf Coast Company, L.P. has an approved \$300,000 Right-of-Way Grant Bond on file with MMS, covering installation of right-of-way pipelines in Federal Waters, Gulf of Mexico.

Sincerely,

WILLIAMS FIELD SERVICES - GULF COAST COMPANY, L. P.


Alan S. Armstrong
Vice President/Midstream Gas and Liquids,
Asset Optimization
ASA:wer
Attachments and Enclosures

Minerals Management Service
12-Inch Natural Gas Right-of-Way Pipeline
Block 261, Main Pass Area
April 20, 2001

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cc: Devon SFS Operating Inc.
840 Gessner, Ste. 1400
Houston, TX 77024
(Certified Mail No. Z-580-779-535)

Williams Field Services – Gulf Coast Company, L.P.
Attn: Dianne Casalena
60825-A Hwy, 1148 W.
Plaquemines, LA 70764
(Certified Mail No. Z 580 779 525)

Dauphin Island Gathering Partners
Attn: Jerry Crafton
4227 Decker Dr.
P.O. Box 426
Baytown, TX 77520
(Certified Mail No. Z-580-779-526)

Equilon Pipeline Company, LLC
Attn: Right-of-Way Dept.
1100 Louisiana
Houston, TX 77002
(Certified Mail No. Z-580-779-527)

Viosca Knoll Gathering Company
Attn: Bart Heijermans
C/O El Paso Energy Partners
4 Greenway Plaza, 3rd Floor
Houston, TX 77067
(Certified Mail No. Z-580-779-528)

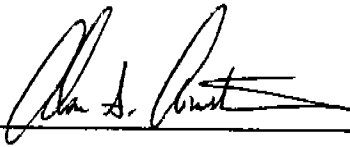
Transcontinental Gas Pipe Line Company
Attn: Diana Casalena
60825-A Hwy, 1148 W.
Plaquemines, LA 70764
(Certified Mail No. Z 580 779 529)

NONDISCRIMINATION IN EMPLOYMENT

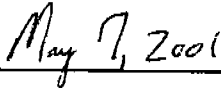
As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee, Williams Field Services - Gulf Coast Company, L.P. hereby agrees and consents to the following stipulation, which is to be incorporated into the application for said right-of-way.

During the performance of this grant, the grantee agrees as follows:

During the performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended (reprinted in 41 CFR 60-1.4(a)), which are for the purpose of preventing discrimination against persons on the basis of race, color, religion, sex or national origin. Paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, are incorporated in this grant by reference.



Signature



Date

ATTACHMENT A

The following Designated Oil & Gas Lease Operators and Right-of-Way Holders have been furnished information regarding the proposed pipeline installation by Certified Mail, Return Receipt Requested. (Note: The status of blocks listed below is current, per research of MMS records by J. Connor Consulting, Inc.).

MAIN PASS AREA

BLOCK 261

Devon SFS Operating Inc.	OCS-G 13035	Oil & Gas Lease
Viosca Knoll Gathering Partners	OCS-G 14292	Right-of-Way
Dauphin Island Gathering Partners	OCS-G 21022	Right-of-Way
Equilon Pipeline Company, LLC	OCS-G 13408	Right-of-Way
Transcontinental Gas Pipe Line Company	OCS-G 20503	Right-of-Way
Williams Field Services, Gulf Coast Company, L.P.	OCS-G 21485	Right-of-Way
Destin Pipeline Co. LLC	OCS-G11930	Right-of-Way*

*Not affected by proposed right-of-way.

Williams Field Services
Gulf Coast Company, L.P.
12" Gas Pipeline (Bidirectional)
Main Pass 261 "JP" to
Main Pass 261 "A"
Rev. 0, 3/5/01

PIPELINE DESIGN INFORMATION

I. Pipeline and Riser Description

A. Nominal Pipeline:

Size:	12.750 Inch
Wall Thickness:	0.500 Inch
Grade:	API 5L Gr. X42, Seamless
Length:	7,283 Feet, 1.38 Miles
Bare Weight:	65.42 lbs/ft
Protection Coating Type and Thickness:	Fusion Bonded Epoxy; 12-14 mils
Weight Coating:	None
Specific Gravity of Pipe in Seawater (empty):	1.15

B. Riser- At MP 261 "JP" (Canyon Station)

Size:	12.750 Inch
Wall Thickness:	0.562 Inch
Grade:	API 5L Gr. X60, Seamless
Bare Weight:	73.15 lbs/ft
Protection Coating Type and Thickness:	
- Below Splash Zone:	Fusion Bonded Epoxy; 12-14 mils
- In Splash Zone:	Splashtron Coating; ½ Inch
- Above Splash Zone:	Fusion Bonded Epoxy; 12-14 mils and/or a three coat paint system; 12 mils DFT.
Weight Coating:	None

C. Riser- At MP 261 "A"

Size:	20.00 Inch
Wall Thickness:	0.688 Inch
Grade:	API 5L Gr. X65, Seamless
Bare Weight:	142.03 lbs/ft

Protection Coating Type and Thickness:

- Below Splash Zone: Fusion Bonded Epoxy; 12-14 mils
- In Splash Zone: Splasatron Coating; ½ Inch
- Above Splash Zone: Fusion Bonded Epoxy; 12-14 mils and/or a three coat paint system; 12 mils DFT.

Weight Coating: None

II. Cathodic Protection System

The pipeline will be protected by sacrificial anodes as described below. The pipe between the riser insulating flange will be protected by the pipeline cathodic protection system. The riser clamps will be insulated from the riser by a neoprene coating installed on the inside of the clamps. Above the insulating flange, the riser is protected by a thin film epoxy coating system and the platform cathodic protection system.

Pipeline and Riser Sacrificial Anodes System:

Design Life:	50 yrs.
Type of Anode:	Galvalum III
Spacing Interval:	500 ft.
Output:	1150 Amps - hrs./lb.
Efficiency:	0.85
Current Density:	2 ma/sq. ft.
% Assumed Bare Pipe:	5.0%
Minimum Required Weight of Anode:	N/A

$$\# = (.002)(3.14159)(12.750)(500)(.05)(50)(365)(24)/(1,150)(12)(.85) = 74.8 \text{ lbs.}$$

Use one (1) 80# net weight anode every 500 feet.

III. Water-Depth for Pipeline:

The water depth along the pipeline varies from approximately (-)299 feet to (-)282 feet.

IV. Description of Internal Protective Measures:

Internal Coating:	None
Corrosion Inhibitor Program:	As necessary
Pigging Program:	A Pigging Schedule has not been defined, however, depending on the analysis of the transported product, a program will be initiated as necessary.

V. Riser Protection

At both Main Pass 261 "JP" and Main Pass 261 "A", the risers will be protected by the jacket framing.

Protection Coating Type and Thickness:

- Below Splash Zone: Fusion Bonded Epoxy; 12-14 mils
- In Splash Zone: Splashtron Coating; ½ Inch
- Above Splash Zone: Fusion Bonded Epoxy; 12-14 mils and/or a three coat paint system; 12 mils DFT.

Weight Coating: None

II. Cathodic Protection System

The pipeline will be protected by sacrificial anodes as described below. The pipe between the riser insulating flange will be protected by the pipeline cathodic protection system. The riser clamps will be insulated from the riser by a neoprene coating installed on the inside of the clamps. Above the insulating flange, the riser is protected by a thin film epoxy coating system and the platform cathodic protection system.

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The water depth along the pipeline varies from approximately (-)298 feet to (-)282 feet.

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Internal Coating:	None
Corrosion Inhibitor Program:	As necessary
Pigging Program:	A Pigging Schedule has not been defined, however, depending on the analysis of the transported product, a program will be initiated as necessary.

V. Riser Protection

At both Main Pass 261 "JP" and Main Pass 261 "A", the risers will be protected by the jacket framing.

VI. Specific Gravity of the Empty Pipe Based on Seawater:

The formula used to calculate the specific gravity is as follows:

$$S.G. = \frac{(W_P + W_{CONC})}{W_{H2O}}$$

Where:

- W_P = Weight of the pipe (lbs/ft) = 65.42
- W_{CONC} = Weight of Concrete (lbs/ft) = 0
- W_{H2O} = Displaced weight of the seawater (lbs/ft) = 56.74

The above weights are based on the pipe outside diameter and corrosion coating thickness and on the densities of the various materials, which are listed below.

- Density of Pipe = 490 lbs/ft³
- Density of Seawater = 64 lbs/ft³
- The specific gravity of the pipeline = 1.15

VII. Specific Gravity of the Product:

The specific gravity of the gas to be transported is anticipated to be:

$$S.G. (Gas) = 0.65 (Air = 1.0) @ T = 80 \text{ Degrees}$$

VIII. Design Capacity:

The design flowing capacity of the pipeline is 280 MMSCFD. The total volume capacity of the pipeline is 977 bbls.

IX. Maximum Operating Pressure:

1. Calculations based on CFR, Title 30, Part 250, Subparts H and J.

$$P = \frac{2st}{D}$$

$$P1 = \frac{2s(t-ca)(F)(E)(T)}{D}$$

Where:

- P = Pressure as 100% SMYS (psig)
 P1 = Internal Design Pressure (psig)
 s = Specified Minimum Yield Strength (SMYS) (psi)
 t = Pipe Wall Thickness in Inches
 ca = Corrosion Allowance (use 0.03")
 D = Pipe Outside Diameter in Inches
 (F) = Design Factor
 0.50 for Risers
 0.72 for Pipeline
 (E) = Joint Factor
 1.0 for Seamless Pipe
 (T) = Temperature Derating Factor
 1.0 for Operating Temperatures below 250 Degrees Fahrenheit

- 1) Pipeline: 12.750" OD x 0.500" W.T. API 5L Gr. X42
 - a) $P = (2)(42,000)(0.500)/12.750 = 3,294$ psig
 - b) $P1 = (2)(42,000)(0.500-0.03)(0.72)(1.0)(1.0)/12.750 = 2,229$ psig
 - c) Hydrostatic Test Pressure = HTP
 Maximum HTP = $0.95 P = (0.95)(3,294) = 3,129$ psig
 Minimum HTP will be 2,775 psig for 8 hour hold time.
 Rated MAOP = $2,775 \text{ psig}/1.25 = 2,220$ psig
 - d) Maximum Allowable Operating Pressure (MAOP) = 1,708 psig

- 2) Riser Pipe- At MP "JP": 12.750" OD x 0.562" W.T. API 5L Gr. X60
 - a) $P = (2)(60,000)(0.562)/12.750 = 5,289$ psig
 - b) $P1 = (2)(60,000)(0.562- 0.03)(0.5)(1.0)(1.0)/12.750 = 2,503$ psig
 - c) Hydrostatic Test Pressure = HTP
 Maximum HTP = $0.95 P = (0.95)(5,289) = 5,025$ psig
 Minimum HTP will be 3,330 psig for 8 hour hold time.
 Rated MAOP = $3,330 \text{ psig}/1.5 = 2,220$ psig
 - d) Maximum Allowable Operating Pressure (MAOP) = 1,708 psig

- 3) Riser Pipe- At MP 261 "A": 20.000" OD x 0.688" W.T. API 5L Gr. X65
 - a) $P = (2)(65,000)(0.688)/20.000 = 4,472$ psig
 - b) $P1 = (2)(65,000)(0.688- 0.03)(0.5)(1.0)(1.0)/20.000 = 2,073$ psig

- c) Hydrostatic Test Pressure = HTP
Maximum HTP = $0.95 P = (0.95)(4,472) = 4,248$ psig
Minimum HTP will be 3,330 psig for 8 hour hold time.
Rated MAOP = $3,330 \text{ psig} / 1.5 = 2,220$ psig
- d) Maximum Allowable Operating Pressure (MAOP) = 1,708 psig

B. MAOP of Flange, Fittings and Valves:

- 1) Under Water:

ANSI 900 class = 2,220 psig

- 2) Platform Facilities (See Safety Schematic):

ANSI 900 class = 2,220 psig

C. Summary

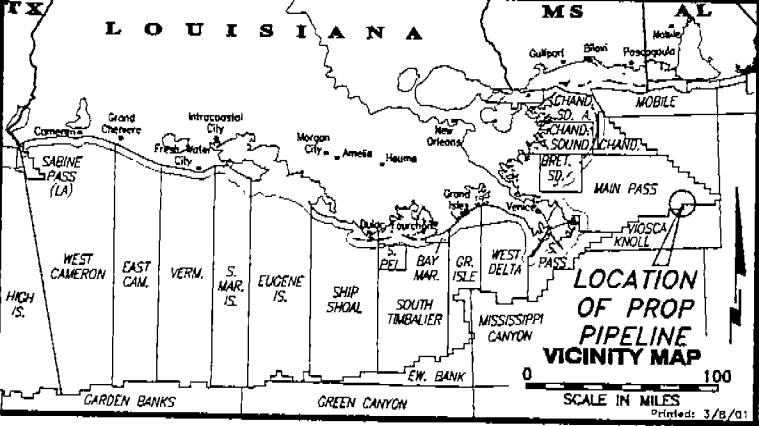
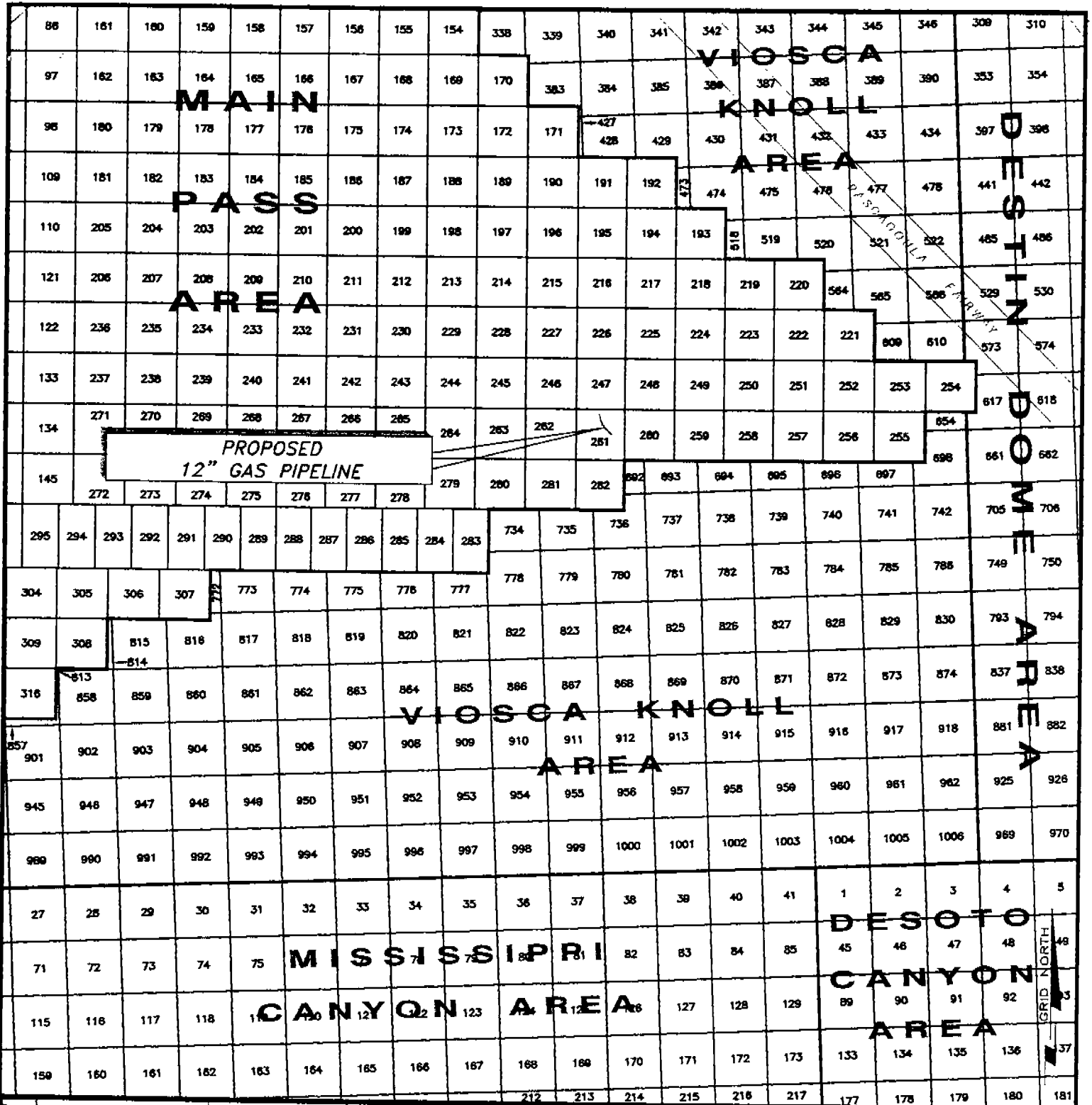
This pipeline and riser will have an MAOP of 1,708 psig.

X. Design Standard:

The design of the proposed pipeline is in accordance with Title 30 CFR, Part 250, Subparts H and J.

XI. Construction Information:

- | | |
|---|--------------|
| A) Anticipated Start Date: | July 9, 2001 |
| B) Method of Construction: | Lay Barge |
| C) Method of Burial: | N/A |
| D) Time Required to Lay Pipe: | 2 Days |
| E) Time Required to Complete the Project: | 9 Days |



Williams WILLIAMS FIELD SERVICES-GULF COAST COMPANY, L.P.

PROPOSED 12" GAS PIPELINE
 BLK 261-PROP "JP" PLTFM TO BLK 261-STR "A"
 MAIN PASS AREA
 GULF OF MEXICO

JOHN E. CHANCE & ASSOCIATES, INC.

GEOETIC DATUM: NAD 1927
 PROJECTION: LOUISIANA SOUTH
 GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 40,000'

Job No.: 00-3923 Date: 03/08/01 Drwn: MGK Chart: Of: 1 2
 Dwgfile: H:\2000\003923\CAD\MARINE\3923COVR (A)

72+82.84
Str "A" - B.O.R.
X= 3,025,885.22'
Y= 261,886.15'
Lat. 29° 20' 49.862"N
Lon. 88° 06' 46.913"W

MP247

MP248

71+59.17 Tie-in to
existing 24" Pipeline
X= 3,025,788.59'
Y= 261,808.98'
Lat. 29° 20' 49.125"N
Lon. 88° 06' 48.029"W

71+95.53
Pipeline Crossing
X= 3,025,817.00'
Y= 261,831.67'
Lat. 29° 20' 49.342"N
Lon. 88° 06' 47.700"W

MP261
OCS-G-13035
DEVON, VASTAR

WILLIAMS 24"
MMS SEG #12421

VIOUCA KNOLL 20"
MMS SEG #11703

54+87.39
Pipeline Crossing
X= 3,026,169.64'
Y= 260,181.23'
Lat. 29° 20' 32.911"N
Lon. 88° 06' 44.242"W

48+32.16
Pipeline Crossing
X= 3,026,377.36'
Y= 259,560.29'
Lat. 29° 20' 26.708"N
Lon. 88° 06' 42.093"W

TOTAL LENGTH= 7,282.84' = 1.38 MI.

PROPOSED
12" GAS PIPELINE

MP260

EQUILON 8"
MMS SEG #9551

P.C.1 N45° 39' 25"W
MMS SEG #12162
DAUPHIN 16"

Prop "JP" Pltfrm

08+33.41
Pipeline Crossing
X= 3,028,974.30'
Y= 256,580.52'
Lat. 29° 19' 56.496"N
Lon. 88° 06' 13.712"W

00+00.00
Prop "JP" Pltfrm
X= 3,029,600.00'
Y= 256,029.99'
Lat. 29° 19' 50.874"N
Lon. 88° 06' 06.821"W

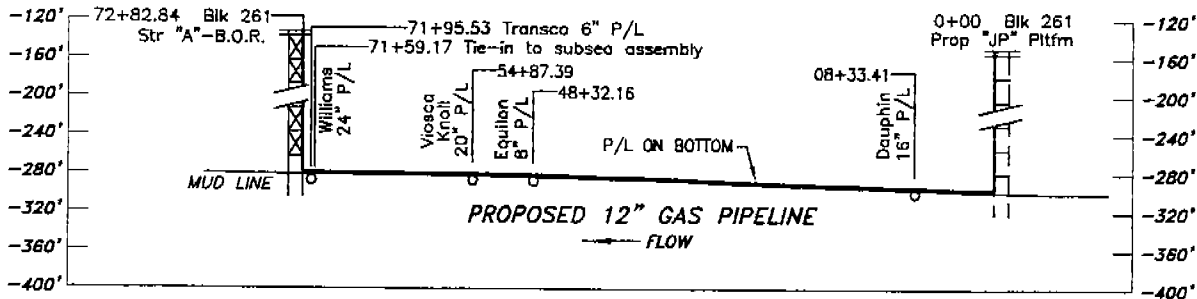
CURVE 1 DATA	
P.C.	25+27.81
X	3,027,702.20'
Y	257,699.78'
Lat.	29° 20' 07.927"N
Lon.	88° 06' 27.722"W
P.T.	56+30.25
X	3,026,135.26'
Y	260,319.89'
Lat.	29° 20' 34.293"N
Lon.	88° 06' 44.586"W
P.I.	1
X	3,026,498.73'
Y	258,758.65'
Radius	5,000.00'
Delta	35° 33' 05"
Tangent	1,602.98'
Length	3,102.44'

PLAN



DESIGN CHARACTERISTICS OF THIS PIPELINE ARE IN COMPLIANCE WITH APPLICABLE REGULATIONS.

AREA ENGINEER

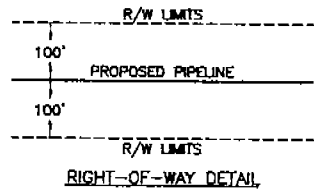


PROFILE



THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED
PROFESSIONAL
LAND SURVEYOR
REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



WILLIAMS FIELD SERVICES-GULF COAST COMPANY, L.P.

PROPOSED
12" GAS PIPELINE
BLK 261-PROP "JP" PLTFM TO BLK 261-STR "A"
MAIN PASS AREA
GULF OF MEXICO

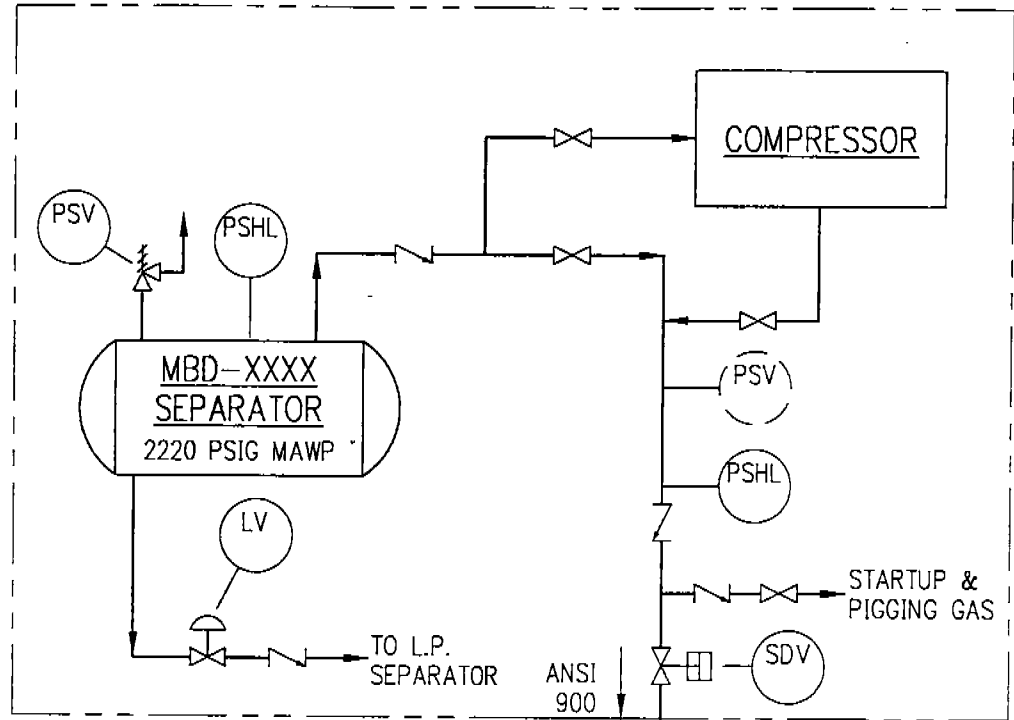
JOHN E. CHANCE
& ASSOCIATES, INC.

GEODETIC DATUM: NAD 1927
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Job No.: 00-3923	Date: 03/08/01	Drwn: MCK	Chart: Of:
Dwgfile: H:\2000\003923\CAD\MARINE\003923PP (A)			2 2

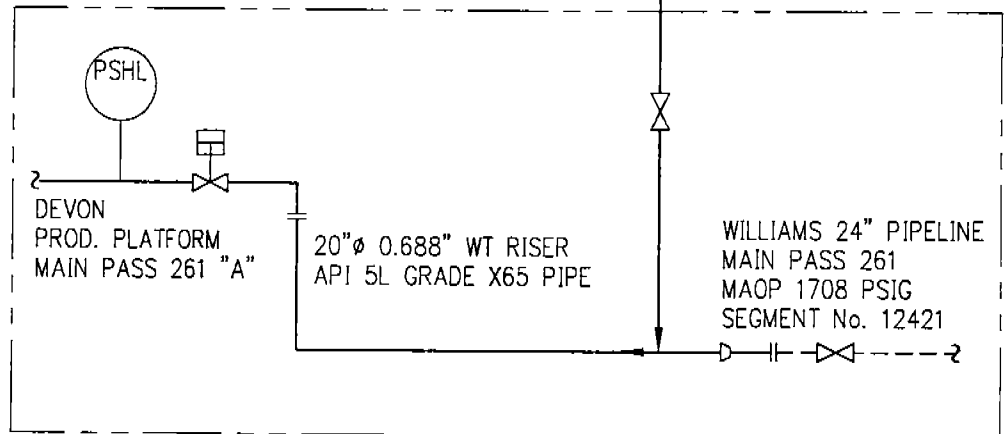
WILLIAMS FIELD SERVICES
 MAIN PASS 261 "JP"
 PRODUCTION PLATFORM
 OCS-G-13035



NOTES

1. THIS PIPELINE COMPLIES WITH DEPARTMENT OF INTERIOR SUBPARTS H & J PART 250, TITLE 30, OF THE CODE OF FEDERAL REGULATIONS.
2. THIS PIPELINE COMPLIES WITH API RP 1111 REGULATIONS.
3. ALL FACILITIES COMPLY WITH API RP 14E.
4. PSH AND PSL SENSORS SHALL BE SET NO MORE THAN 15% OR 5 PSIG, WHICH EVER IS GREATER, ABOVE & BELOW THE NORMAL OPERATING RANGE OF PIPELINE. THE PSH SETTING SHALL NOT EXCEED THE PIPELINE MAOP.
5. ANODES WILL BE ALUMINUM, 80 LB. BRACELET TYPE, GALVALUM III.
6. TOTAL PIPELINE LENGTHS = 7,283 FEET; 1.38 MILES.
7. PIPELINE MAOP = 1708 PSIG.
8. THIS PIPELINE IS BIDIRECTIONAL.

24" WILLIAMS
 MAIN PASS 261
 SUBSEA TIE-IN
 SEGMENT No. 12421



PINNACLE ENGINEERING, INC.
 HOUSTON, TEXAS

WILLIAMS FIELD SERVICES
GULF COAST COMPANY, L.P.

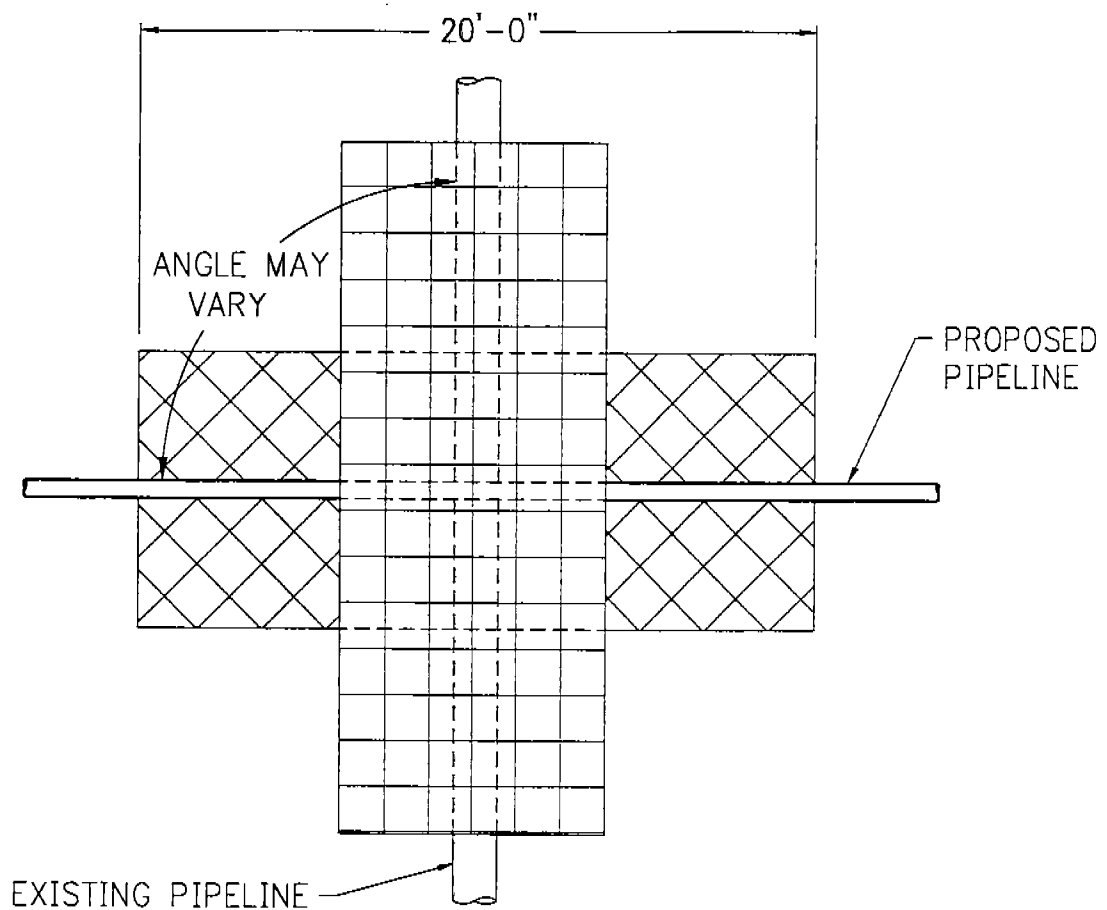
MAIN PASS 261 "JP" TO
 MAIN PASS 261 WILLIAMS 24" PIPELINE

SCHMATIC FOR 12.75" O.D. GAS PIPELINE

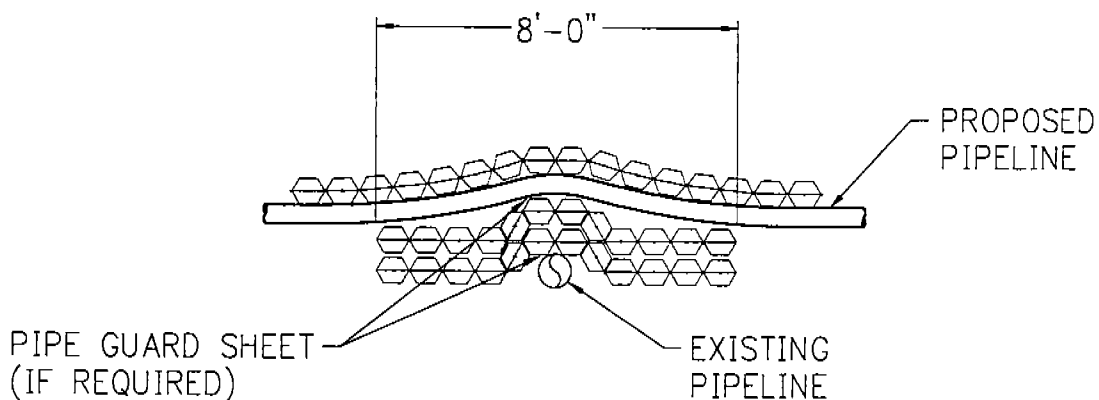
JOB NO. 490703

DWG NO. 901

REV. 0



PLAN

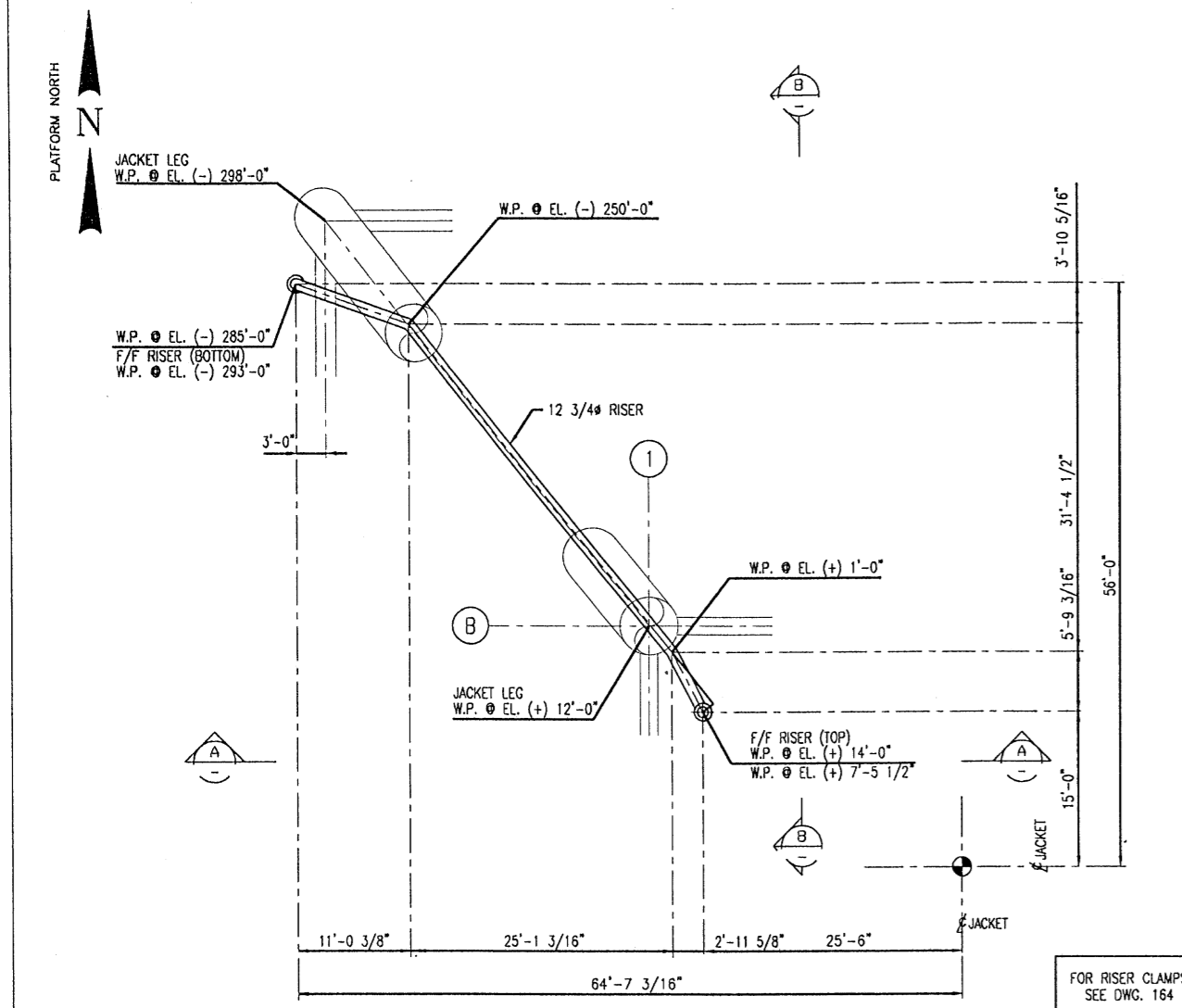


ELEVATION

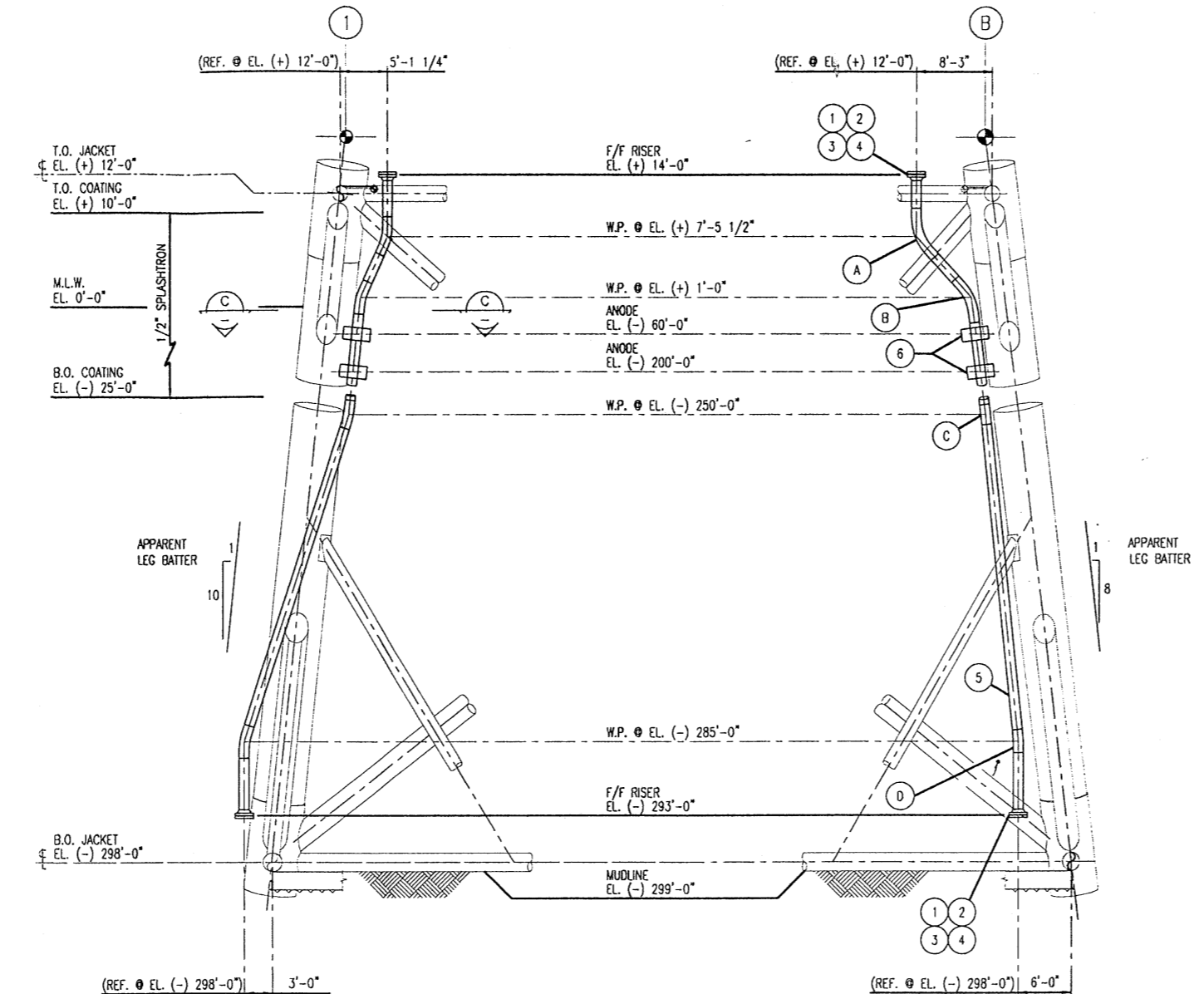
NOTES:

1. MAT DIMENSIONS: 20'-0" X 8'-0" X 9"
2. CONCRETE MAT IS COMPRISED OF 160 ELEMENTS MOLDED ONTO UV. STABILIZED ROPE.
3. PIPE GUARD IS A SHEET OF POLYPROPYLENE RESIN MESH CUT TO FIT UNDER AND OVER EXPOSED PIPELINE TO PROTECT PIPE COATINGS WITHOUT INTERFERENCE TO THE CATHODIC PROTECTION ON THE PIPE.
4. TYPICAL PIPELINE CROSSING REQUIRES (3) MATS.
5. MATS SHALL HAVE ALL LOOSE ROPES REMOVED AND EDGES JETTED DOWN BELOW MUDLINE.

TYPICAL PIPELINE CROSSING OR CABLE CROSSING.
GULF OF MEXICO

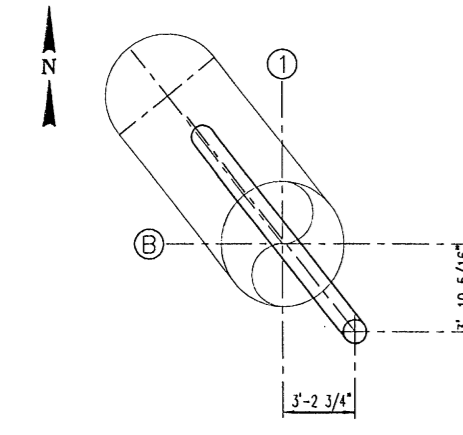


PLAN

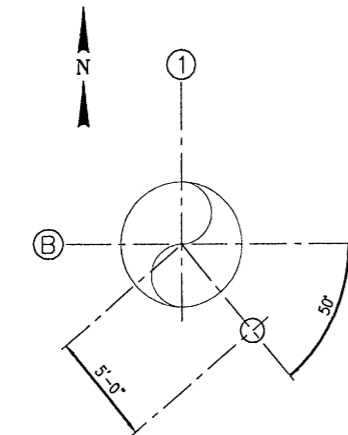


SECTION A

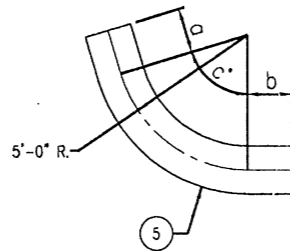
SECTION B



SECTION C
1/4"=1'-0"



VIEW DOWN LEG
1/4"=1'-0"



BEND SCHEDULE			
ITEM	a*	b*	c*
A	1'-0"	1'-0"	45°
B	1'-0"	1'-0"	36.58°
C	1'-0"	1'-0"	11.75°
D	1'-0"	1'-0"	18.45°

* SEE NOTE 7

BILL OF MATERIAL			
ITEM	NO. REQ'D	DESCRIPTION	
1	2	12"-900 RTJ WN FLG.	
2	2	12"-900 RTJ BLIND FLG. W/ 1" TAP AND PLUG	
3	40	1 3/8" x 10 1/4" STUD BOLTS W/ NUTS	
4	2	12"-900 RTJ TYPE R GASKET	
5	320	12 3/4"x.562 SMLS. PIPE API 5L GR. X-60	
6	2	ANODE GALVALUM III FOR 12" PIPE	

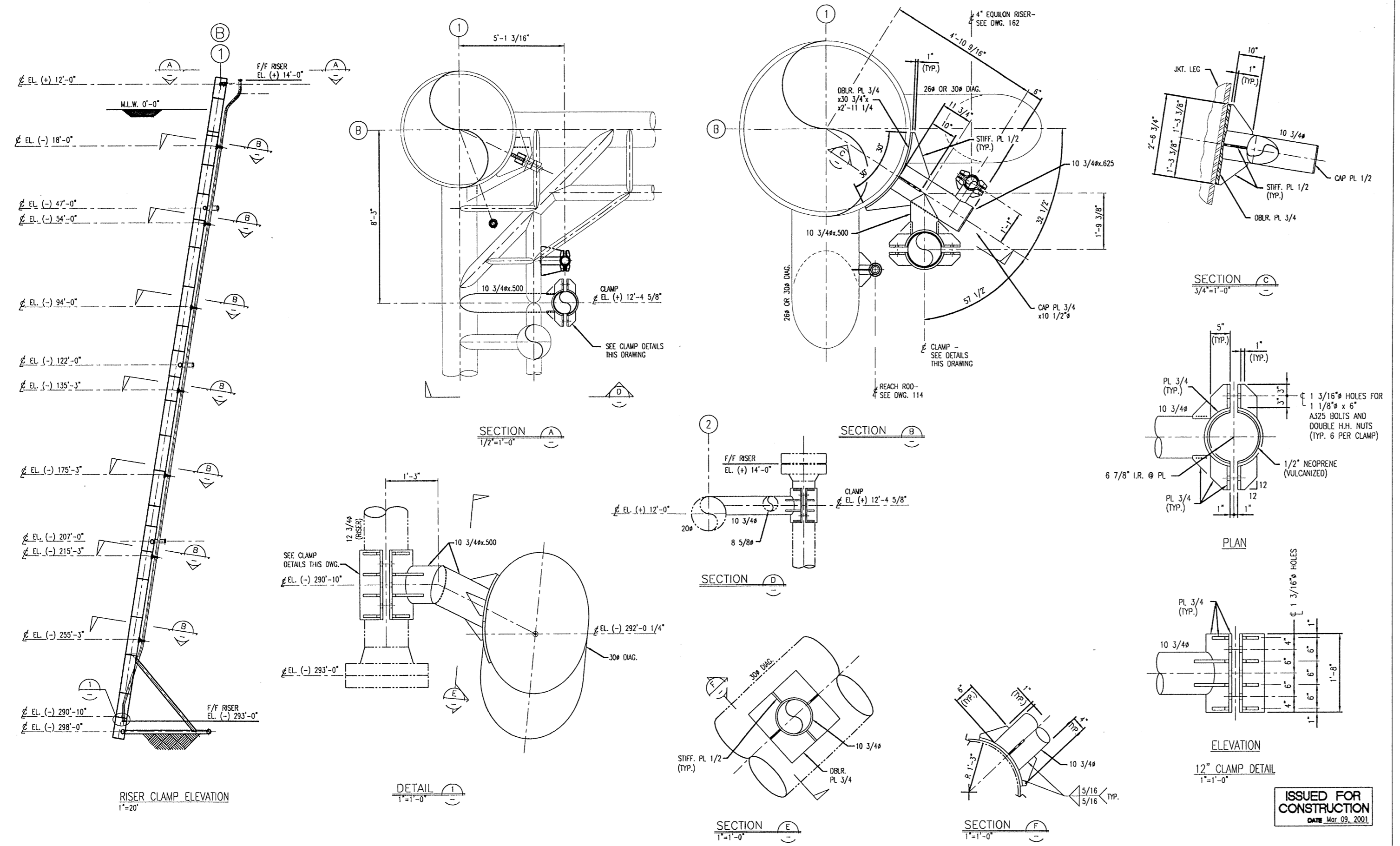
ISSUED FOR CONSTRUCTION
DATE: Mar. 09, 2001

- NOTES:
- FOR GENERAL NOTES, SEE DWG. 001.
 - RISER TO BE COATED WITH FBE 16 MILS NOMINAL (14 MIL/22 MAX.) BELOW SPLASHTRON.
 - RISER TO BE PAINTED ABOVE SPLASHTRON SAME AS JACKET COATING SYSTEM.
 - ANODES TO BE BRACKET-TYPE, GALVALUM III OR EQUAL. ANODES TO BE SUPPLIED BY COMPANY AND INSTALLED BY FABRICATOR.
 - ANODES TO BE CAD-WELDED TO RISER PER SUPPLIER RECOMMENDATIONS AND CLIENT SPECIFICATIONS.
 - HYDROTEST RISER TO 3300 PSIG FOR 8 HOURS. PRESSURE SHALL HOLD OR RISE OVER THE LAST 2 HOURS.
 - FABRICATOR MAY EXTEND TANGENT LENGTHS TO REDUCE NUMBER OF WELDS.

NO.	REVISION	DATE	DRAWN	CHK'D	APP'D	CLIENT AFE NO.
0	ISSUED FOR CONSTRUCTION	03/09/01	LC	MCK	LDD	
A	ISSUED FOR MATERIAL ORDER	03/02/01	DFP	MCK	LDD	

ENGINEER MCK DATE 03/09/01
 DRAWN CC DATE 02/12/01
 CHECKED DFP DATE 03/09/01
 APPROVED LDD DATE 03/09/01
 SCALE 1/8"=1'-0" SHEET 1 OF 1
 JOB NO. A0177
 WILLIAMS
 PARAGON ENGINEERING SERVICES
 HOUSTON, TEXAS

WILLIAMS ENERGY SERVICES
 MP 261-JP "CANYON STATION"
 12" WILLIAMS RISER
 DRAWING NO. 88-2365-S10-09-163
 REV. 0

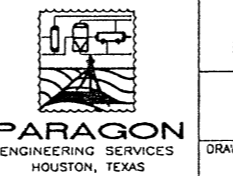


NOTES:

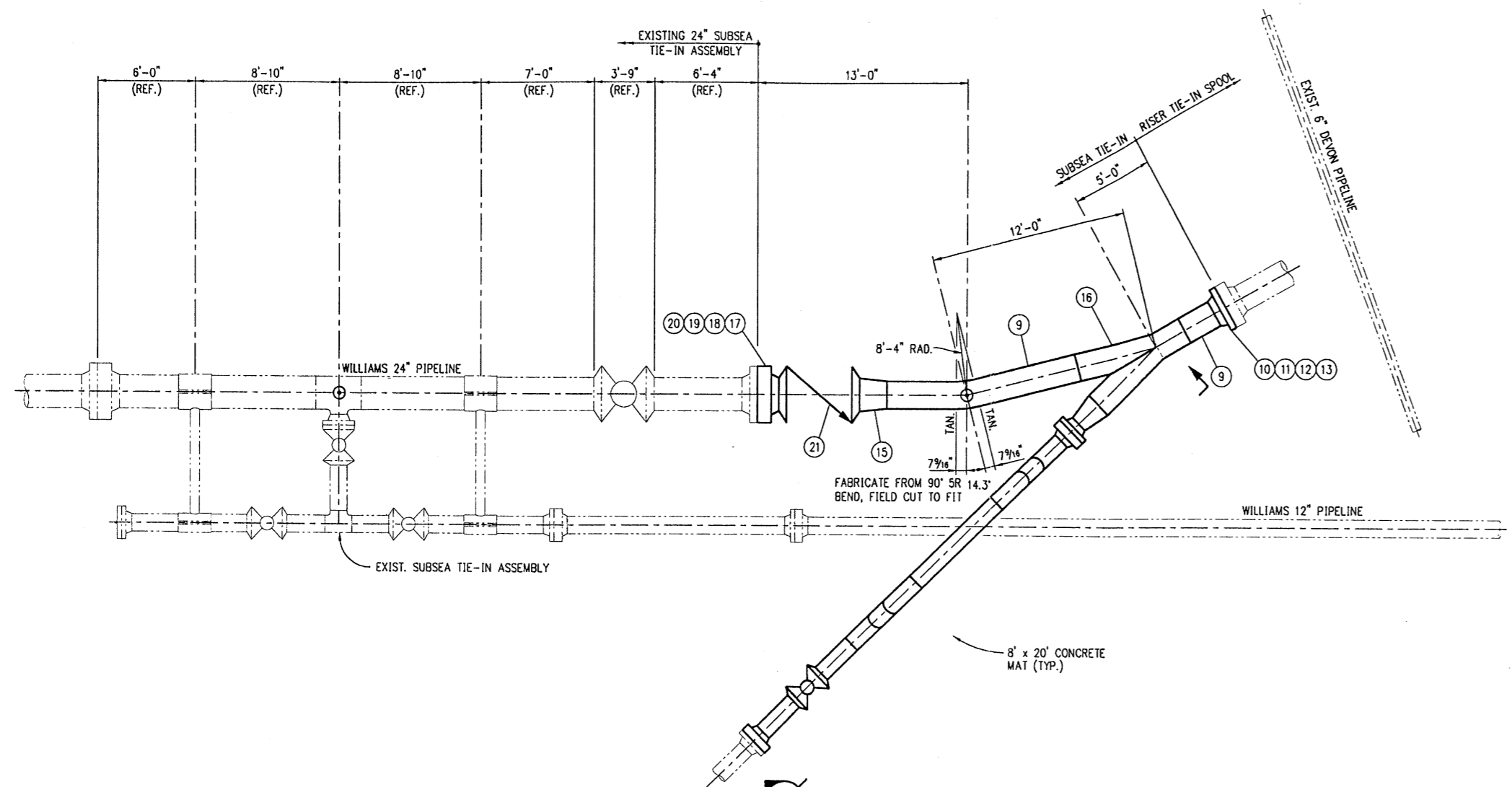
- FOR GENERAL NOTES, SEE DWG. 001.
- RISER CLAMPS NOT AT SPLASHZON COATED AREA TO HAVE 1/2" THICK NEOPRENE VULCANIZED TO INSIDE SURFACE OF CLAMP.
- RISER CLAMPS ABOVE (-) 10'-0" TO BE PAINTED SAME AS JACKET COATING SYSTEM. CLAMPS BELOW (-) 10'-0" TO BE BARE METAL.
- ALL CLAMP MATERIAL TO BE ASTM A-36 U.N.O.

NO.	REVISION	DATE	DRAWN	CHK'D	APP'D
0	ISSUED FOR CONSTRUCTION	03/09/01	DFP	MCK	LOD

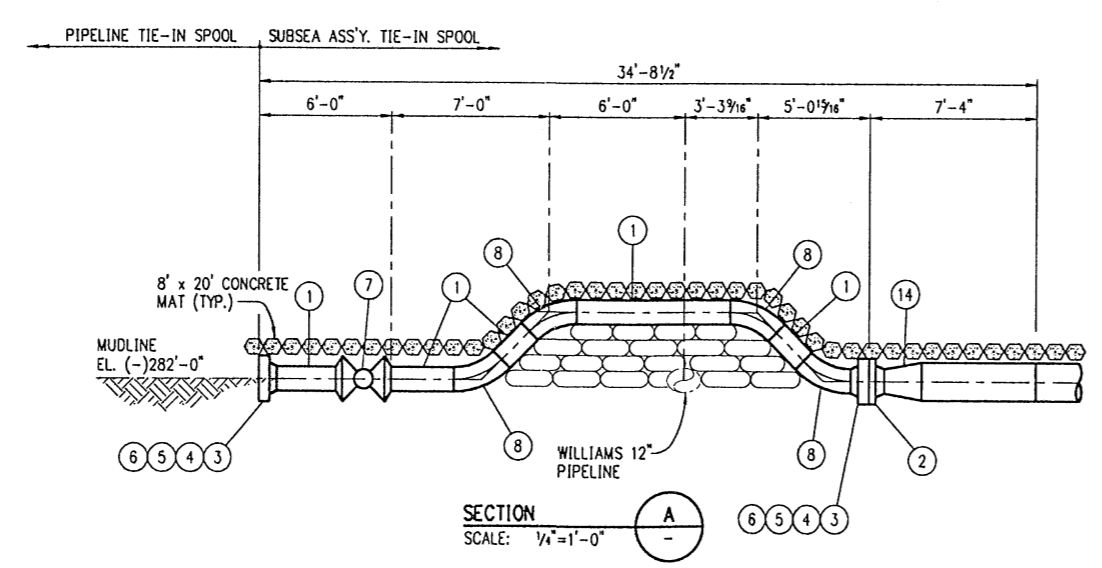
ENGINEER	MCK	DATE	03/09/01
DRAWN	DFP	DATE	02/05/01
CHECKED	DFP	DATE	03/09/01
APPROVED	LOD	DATE	03/09/01
SCALE	3/4"=1'-0"	SHEET	1 OF 1
JOB NO.	A0177		
CLIENT	WILLIAMS		
CLIENT AFE NO.			



WILLIAMS ENERGY SERVICES MP 261-JP "CANYON STATION"	
12" WILLIAMS RISER CLAMPS	
DRAWING NO. 88-2365-S10-09-164	REV. 0



PLAN
SUBSEA TIE-IN ASSEMBLY AT MAIN PASS 261
SCALE: 1/4"=1'-0"



SECTION
SCALE: 1/4"=1'-0"

MATERIAL SUMMARY		
ITEM	QTY.	DESCRIPTION
1	22 LF.	PIPE, 12 1/2" 0.562, API 5L GR X60, SEAMLESS
2	ONE	FLANGE, 12", WN RTJ, ANSI 900, BTM 0.562 WT GR X60 PIPE, ANSI B16.9, ASTM A105 (Y60)
3	2	FLANGE, 12", SWIVEL-RING, ANSI 900, BTM 0.562 WT GR X60 PIPE, ANSI B16.9, ASTM A105 (Y60)
4	40	BOLTS, 1 1/4" DIA. x 1'-6 1/2" LG. STUD ASTM A193 GR B7, w/ (2) ASTM A194 GR 2H HVY. HEX NUTS, IMF-3W COATED, ASSEMBLED AND TAGGED: 12" 900 SWIVEL
5	2	GASKET, 12", ANSI 900, OCT. RING, R-57, 316 SS
6	2	PROTECTOR, 12" FLANGE, ADVANCE, ANSI 900, C/W INJECTION FITTING AND RELIEF VALVE, 316 SS
7	ONE	VALVE, 12", BALL, CAMERON, FULL PORT, ANSI 900, WE x WE, BTM 0.562 WT. GR X60 PIPE, w/ GEAR OPERATOR, SUBSEA SERVICE ELL, 12", 3R, 45 DEGREE, ASTM A234, GR. MPB.
8	4	
9	4 LF.	PIPE, 20" 0.812, API 5L GR X60, SEAMLESS
10	ONE	FLANGE, 20", SWIVEL-RING, ANSI 900, BTM 0.812 W.T. GR X60 PIPE ANSI B16.5, ASTM A105 (Y60)
11	ONE	GASKET, 20", ANSI 900, OVAL RING, R-74, 316 SS
12	ONE	PROTECTOR, 20" FLANGE, ADVANCE, ANSI 900, C/W INJECTION FITTING AND RELIEF VALVE, 316 SS
13	20	BOLT, 2" DIA. x 1'-8" LG. STUD, ASTM A193 GR B7 w/2 ASTM A194 GR 2H HVY. HX. TOMMY NUTS, IMF 3-W COATED, ASSEMBLED AND TAGGED: 20" 900 SWIVEL
14	ONE	REDUCER, 20" x 12", CONCENTRIC, SCH. 80, ASTM A234, ANSI B16.9
15	ONE	REDUCER, 24" x 20", CONCENTRIC, SCH. 80, ASTM A234, ANSI B16.9
16	ONE	WYE, 20", PIGGABLE, ANSI 900, BTM 0.812 W.T. GR X60 PIPE
17	ONE	FLANGE, 24", SWIVEL-RING, ANSI 900, BTM 0.875 W.T. GR X60 PIPE ANSI B16.5, ASTM A105 (Y60)
18	ONE	GASKET, 24", ANSI 900, OVAL RING, R-78, 316 SS
19	ONE	PROTECTOR, 24" FLANGE, ADVANCE, ANSI 900, C/W INJECTION FITTING AND RELIEF VALVE, 316 SS
20	20	BOLT, 2 1/2" DIA. x 2'-6" LG. STUD, ASTM A193 GR B7 w/2 ASTM A194 GR 2H HVY. HX. TOMMY NUTS, IMF 3-W COATED, ASSEMBLED AND TAGGED: 24" 900 SWIVEL
21	ONE	VALVE, 24", CHECK, WHEATLEY, FULL OPENING, ANSI 900, WE x WE, BTM 0.875 WT. GR X60 PIPE, SWING TYPE, LOCK OPEN DEVICE, SUBSEA SERVICE

GENERAL NOTES:

- ALL WELDING AND MATERIAL SHALL BE IN ACCORDANCE WITH ANSI, API 1104 AS PER WILLIAMS SPECIFICATIONS.
- DESIGN SHALL MEET OR EXCEED D.O.T. REGULATIONS PART 192 AND ANSI B 31.8.
- DESIGN PRESSURE: 2220 PSIG; DESIGN FACTOR 0.5; DESIGN TEMPERATURE 100 DEGREES F.
- ALL PIPING FABRICATION SHALL BE 100% X-RAYED IN ACCORDANCE WITH API STANDARD 1104.
- COMPLETE TIE-IN ASSEMBLY SHALL BE COATED AS PER WILLIAMS SPECIFICATIONS.
- HYDROSTATICALLY TEST ENTIRE ASSEMBLY TO 3330 PSIG MINIMUM FOR 8 HOURS. VALVES TO BE IN HALF OPEN POSITION THROUGHOUT TEST.
- TIE-IN ASSEMBLY MAOP SHALL BE 1708 PSIG.
- CONTRACTOR TO INSTALL FLANGE PROTECTORS AND FILL WITH SUITABLE GREASE.
- SUPPORT SANDBAGS SHALL BE CEMENT STABILIZED. COVER SANDBAGS SHALL BE SAND ONLY.
- CEMENT STABILIZED SANDBAGS SHALL BE FILLED WITH MIXTURE OF 1 PART CEMENT TO 3 PARTS SAND (BY WEIGHT).
- BAGS SHALL BE MADE OF CLOSELY WOVEN MATERIAL WITH WICKING ACTION. AFTER FILLING BAGS, THEY SHALL BE CLOSED BY SEWING OR EQUAL, BUT NOT BY BUNCHING OR TYING END.
- CONSTRUCTION SHALL BE GOVERNED BY THE CONTRACT AND SPECIFICATIONS FOR THE FABRICATION AND INSTALLATION OF MAIN PASS AREA PIPELINE, BY WILLIAMS FIELD SERVICES.

LDBEN FOWLER 03/07/01 14:49 48073802.DWG

NOTES	

ISSUED FOR PERMIT/APPROVAL	
NO.	DATE

PINNACLE ENGINEERING, INC.
HOUSTON, TEXAS

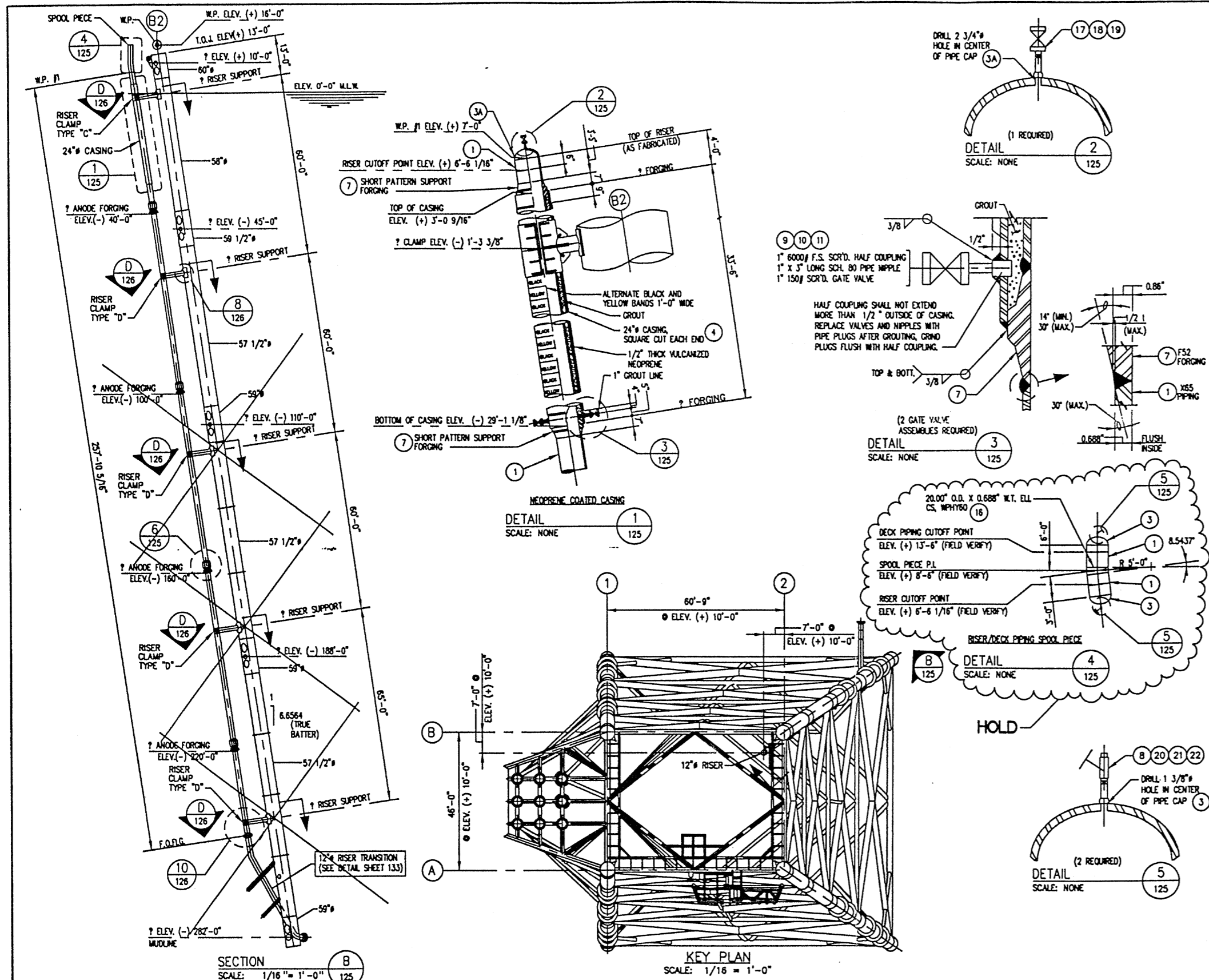
APPROVAL	
Drawn By	R. BETHLOFF
Date	01-31-01
Checked By	
Date	
Designed By	
Date	
Approved By	
Date	

WILLIAMS FIELD SERVICES
GULF COAST COMPANY, L.P.

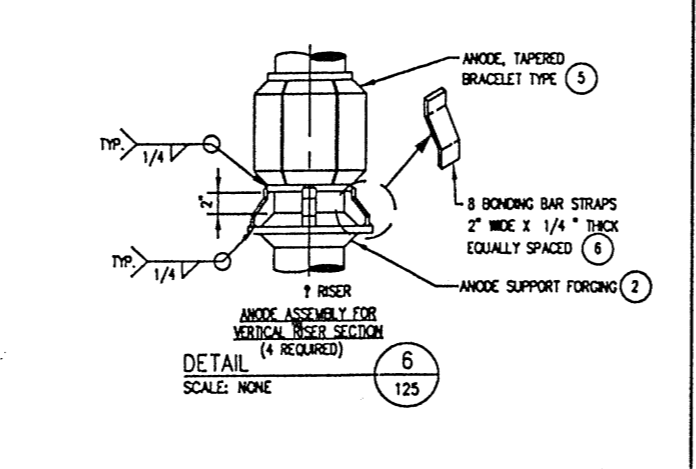
12" PIPELINE
MAIN PASS 261 "B" TO 24" TRANSCO PIPELINE

SUBSEA TIE-IN ASSEMBLY DETAILS

JOB NO. 490703 SCALE: NOTED DWG. NO. 9002 REV. A



BILL OF MATERIAL						
ITEM NO.	QTY.	UNITS	B&R TRACK NO.	WFS REG. NO.	WFS P.O. NO.	DESCRIPTION
1	1	EA.			1300184 1300208	20.00" O.D. x 0.688" W.T. API-5L X55 FBE COATED PIPE, 285'-1"
2	4	EA.			1300194	20" ANODE SUPPORT FORGING, ASTM A-694 F52, 18.625" BORE
3	2	EA.				20.00" O.D. x 0.688" W.T. PIPE CAP WPHY50, DRILL 1 3/8" HOLE O.C.
3A	1	EA.				20.00" O.D. x 0.688" W.T. PIPE CAP WPHY50, DRILL 2 3/4" HOLE O.C.
4	1	EA.				24" O.D. x 0.375" W.T. API-5L GRADE B PIPE COATED WITH 1/2" THICK VULCANIZED NEOPRENE, 33'-6" LONG
5	4	EA.			1300192	20" TAPERED BRACELET ANODE, 233 LB. NET WEIGHT
6	32	EA.				BONDING BAR STRAPS, 2" WIDE x 1/4" THK
7	2	EA.			1300194	20" SHORT PATTERN SUPPORT FORGING, ASTM A-694 F52, 18.625" BORE
8	2	EA.				1" x 8" LG. PIPE NIPPLE, SCH 160, T0E, CS, SMLS, ASTM A-106 GR. B
9	2	EA.				1" x 3" LG. PIPE NIPPLE, SCH 80, T0E, CS, SMLS, ASTM A-106 GR. B
10	2	EA.				1" GATE VALVE, 150#, BRONZE, SCRD
11	2	EA.				1" F.S. SCREWED HALF COUPLING, 6000#
12	1	EA.			1300207	20" RTJ IN FLANGE, ANSI 900, FS, F52, 18.625" BORE
13	1	EA.			1300207	20" RTJ BLIND FLANGE, ANSI 900, FS, F52, DRILL & TAP 2" NPT O.C., ASTM A-105
14	1	EA.			1300207	30" OVAL CROSS SECTION SOFT IRON, PER ANSI B16.20
15	20	EA.			1300207	2" x 14 3/4" LG. STUD BOLT w/ 2 HNY HEX NUTS; BOLT: ASTM A-193 GRADE B7; NUT: ASTM A-194 GRADE 2H w/ WASHERS, THREE 8H-2A/S, PER ASME B16.5
16	2	EA.				20.00" O.D. x 0.688" W.T. 3R ELL. CS. WPHY50, 8.5437", SUITABLE FOR FIELD SEGMENTATION
17	1	EA.			1300207	2" BALL VALVE, FULL OPENING, ANSI 1500, SCRD, FNPT x FNPT
18	1	EA.			1300207	2" x 8" LG. PIPE NIPPLE, SCH 160, T0E, CS, SMLS, ASTM A-106 GR. B
19	1	EA.			1300207	2" FLAT THRODLETT, API 6000, FS, ASTM A-105
20	2	EA.				1" ROCKWELL 150 GLOBE VALVE, SCR, CS, 10,000 CNP, w/HANDWHEEL
21	2	EA.				1" HEX PLUG, 6000#, STEEL
22	2	EA.				1" FLAT THRODLETT, API 6000, FS, ASTM A-105



NOTES:

- FABRICATE, TEST AND PAINT THE RISER ASSEMBLY AND THE RISER/DECK PIPING SPOOL ASSEMBLY. THE TEST SHALL BE TO 3165 PSIG MIN. AND 3234 PSIG MAX. FOR EIGHT HOURS DURATION IN ACCORDANCE WITH ARTICLE 40.11 OF THE SPECIFICATIONS FOR CONSTRUCTION OF OFFSHORE FACILITIES.
- SEE DRAWING NO. 126 FOR RISER CLAMP DETAILS. NUTS TO BE TIGHTENED TO 50 LBS (PER ASS).
- PIPELINE CONTRACTOR SHALL REMOVE THE BOTTOM BLIND FLANGE AND ATTACH THE RISER TO-IN ASSEMBLY TO THE PIPELINE.
- AFTER COMPLETION OF PIPELINE DRYING AND CLEANING OPERATIONS, CONTRACTOR SHALL REMOVE THE FOUR END CAPS (TWO FROM THE ENDS OF RISER/DECK PIPING SPOOL ASSEMBLY, ONE FROM TOP OF RISER, AND ONE FROM END OF DECK PIPING) AND FIELD MEASURE AND CUT SPOOL PIECE TO FIT BETWEEN THE RISER AND THE DECK PIPING. FIELD WELD THE SPOOL PIECE INTO PLACE CONNECTING THE RISER AND THE DECK PIPING (DECK PIPING PREVIOUSLY INSTALLED BY OTHERS).

APP'D.	CHK'D.	DRAFT	DATE	REVISION
RC	JR	JKS	9/6/97	APPROVED FOR CONSTRUCTION
RC	JR	K.H.	3/27/97	ISSUED FOR APPROVAL
APP'D.	CHK'D.	DRAFT	DATE	REVISION

Offshore

TECHNICAL ENGINEERING CONSULTANTS

ONE BIA LOUISIANA

APPROVED	DATE	TITLE
RC	3/9/97	4-PILE PRODUCTION PLATFORM MAIN PASS BLOCK 261 282'-0" W.D.
RC	3/9/97	RISER SECTIONS AND DETAILS
RC	4/8/97	CLIENT
RC	4/20/97	WILLIAMS FIELD SERVICES