



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 16-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 16-inch pipeline will transport natural gas. It will originate at Williams' proposed platform in Block 261 (Lease OCS-G 13035) and proceed in a southwesterly direction approximately 5889.53 feet (1.12 miles) to a subsea tie-in point on Destin Pipeline Company, L.L.C.'s existing 24-inch line (Segment No. 11930, OCS-G 20542, 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
16-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 307-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.

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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 16-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. Riser Detail Drawings at proposed Canyon Station Platform in Main Pass 261 (Drawing Nos. 88-2365-s10-09-169 and 170).
7. Hot Tap Assembly Details for subsea tie-in on Destin Pipeline Company, L.L.C.'s 24 inch pipeline in Main Pass Block 261 (Drawing No. 9002).
8. Pipeline Clamp Details (Drawing No. 9003).
9. 3-1/2-inch diskette of the proposed pipeline route.

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10. Check in the amount of \$2365.00 cover the application fee of \$2350 plus \$15.00 for the first year rental on 1.12 miles of right-of-way.
11. **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:

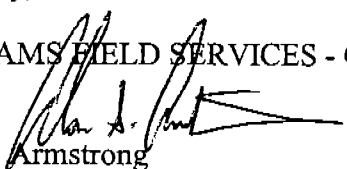
Wanda E. Richmond
J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700
Houston, Texas 77084
Telephone: (281) 578-3388; email address:wanda@jccteam.com

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

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Page Five

cc: Devon SFS Operating Inc.
840 Gessner, Ste. 1400
Houston, TX 77024
(Certified Mail No. Z-580-779-533)

Destin Pipeline Co., LLC
Attn: Edmond J. Blanchard
C/O Amoco Pipeline Company
P.O. Box 458
Bourg, LA 70343
(Certified Mail No. Z-580-779-534)

NONDISCRIMINATION IN EMPLOYMENT

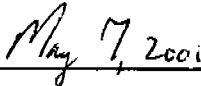
As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee, Williams Field Services - Gulf Coast Company, L.P. hereby agrees and consents to the following stipulation, which is to be incorporated into the application for said right-of-way.

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.

A handwritten signature in black ink, appearing to be "A. S. Hart", written over a horizontal line.

Signature

A handwritten date "May 7, 2001" written in black ink over a horizontal line.

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.
 16" Gas Pipeline
 Main Pass 261 "JP" to
 Main Pass 261 Destin 24" Pipeline
 Rev. 0, 2/22/01

PIPELINE DESIGN INFORMATION

I. Pipeline and Riser Description

A. Nominal Pipeline:

Size:	16.000 Inch
Wall Thickness:	0.625 Inch
Grade:	API 5L Gr. X52, Seamless
Length:	5,890 Feet, 1.12 Miles
Bare Weight:	102.63 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:

Size:	16.000 Inch
Wall Thickness:	0.625 Inch
Grade:	API 5L Gr. X60, Seamless
Bare Weight:	102.63 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

II. Cathodic Protection System

The pipeline will be protected by sacrificial anodes as described below. The pipe between the riser insulating flanges 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

$$\# = (.002)(3.14159)(16.000)(500)(.05)(50)(365)(24)/(1,150)(12)(.85) = 93.8 \text{ lbs.}$$

Use one (1) 100# net weight anode every 500 feet.

III. Water-Depth for Pipeline:

The water depth along the pipeline varies from approximately (-)299 feet to (-)307 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 Main Pass 261 "JP", the riser 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:

$$W_P = \text{Weight of the pipe (lbs/ft)} = 102.63$$

$$W_{CONC} = \text{Weight of Concrete (lbs/ft)} = 0$$

$$W_{H2O} = \text{Displaced weight of the seawater (lbs/ft)} = 89.36$$

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.

$$\text{Density of Pipe} = 490 \text{ lbs/ft}^3$$

$$\text{Density of Seawater} = 64 \text{ lbs/ft}^3$$

$$\text{The specific gravity of the pipeline} = 1.15$$

VII. Specific Gravity of the Product:

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

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

VIII. Design Capacity:

The design flowing capacity of the pipeline is 500 MMSCFD. The total volume capacity of the pipeline is 1245 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: 16.000" OD x 0.625" W.T. API 5L Gr. X52

- a) $P = (2)(52,000)(0.625)/16.000 = 4,063$ psig
b) $P1 = (2)(52,000)(0.625-0.03)(0.72)(1.0)(1.0)/16.000 = 2,785$ psig
c) Hydrostatic Test Pressure = HTP
Maximum HTP = $0.95 P = (0.95)(4,063) = 3,859$ 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) = 2,220 psig

2) Riser Pipe: 16.000" OD x 0.625" W.T. API 5L Gr. X60

- a) $P = (2)(60,000)(0.625)/16.000 = 4,688$ psig
b) $P1 = (2)(60,000)(0.625-0.03)(0.5)(1.0)(1.0)/16.000 = 2,231$ psig
c) Hydrostatic Test Pressure = HTP
Maximum HTP = $0.95 P = (0.95)(4,688) = 4,453$ 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) = 2,220 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 2,220 psig.

X. Design Standard:

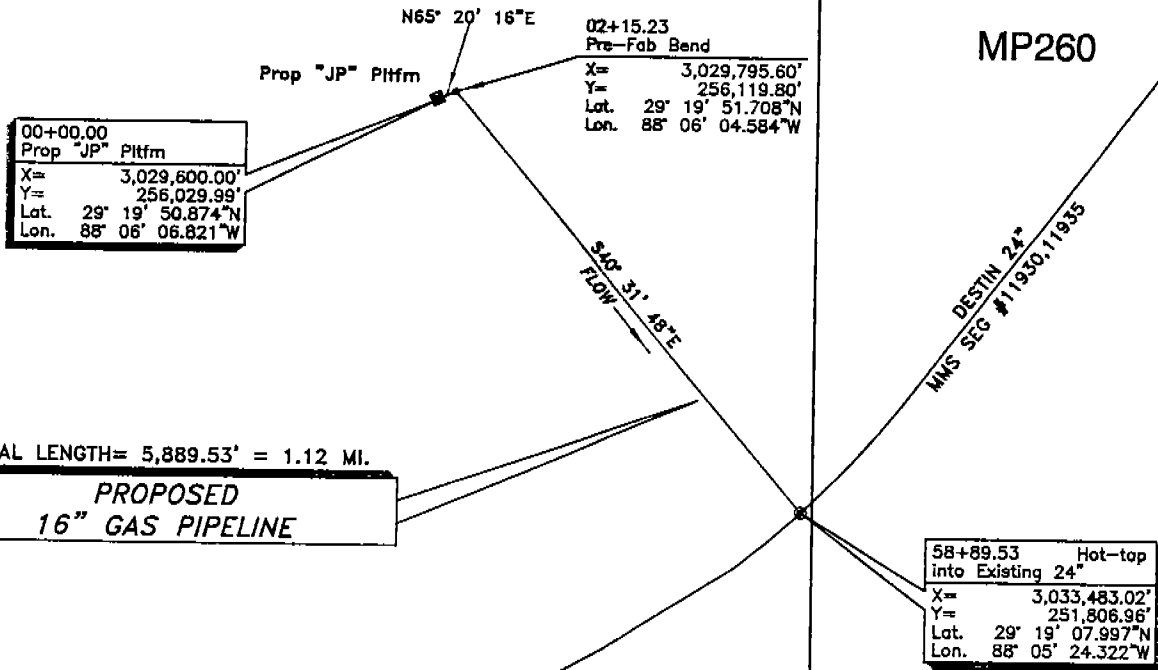
The design of the proposed pipeline is in accordance with Title 30 CFR, Part 250, Subparts H and J.

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

MP261
OCS-G-13036
DEVON, VASTAR

MP260



TOTAL LENGTH= 5,889.53' = 1.12 MI.

**PROPOSED
16" GAS PIPELINE**

58+89.53	Hot-top
into Existing 24"	
X=	3,033,483.02'
Y=	251,806.96'
Lat.	29° 19' 07.997"N
Lon.	88° 05' 24.322"W

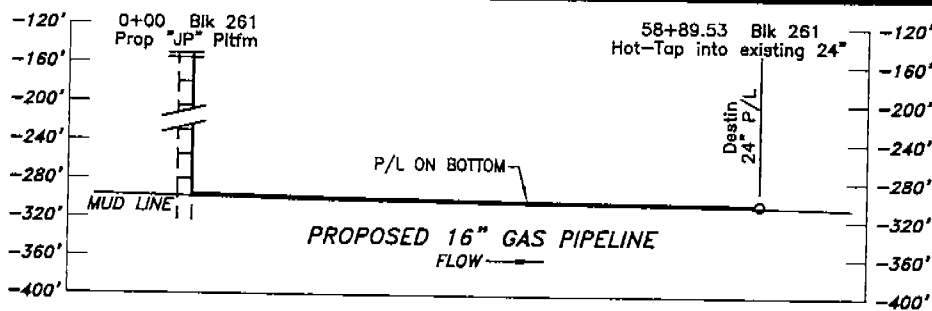
MP282

PLAN



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

AREA ENGINEER



PROFILE

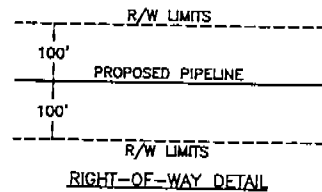


THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

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
16" GAS PIPELINE**

BLK 261-PROP "JP" PLTFM TO BLK 261-HOT TAP INTO 24"
MAIN PASS AREA
GULF OF MEXICO

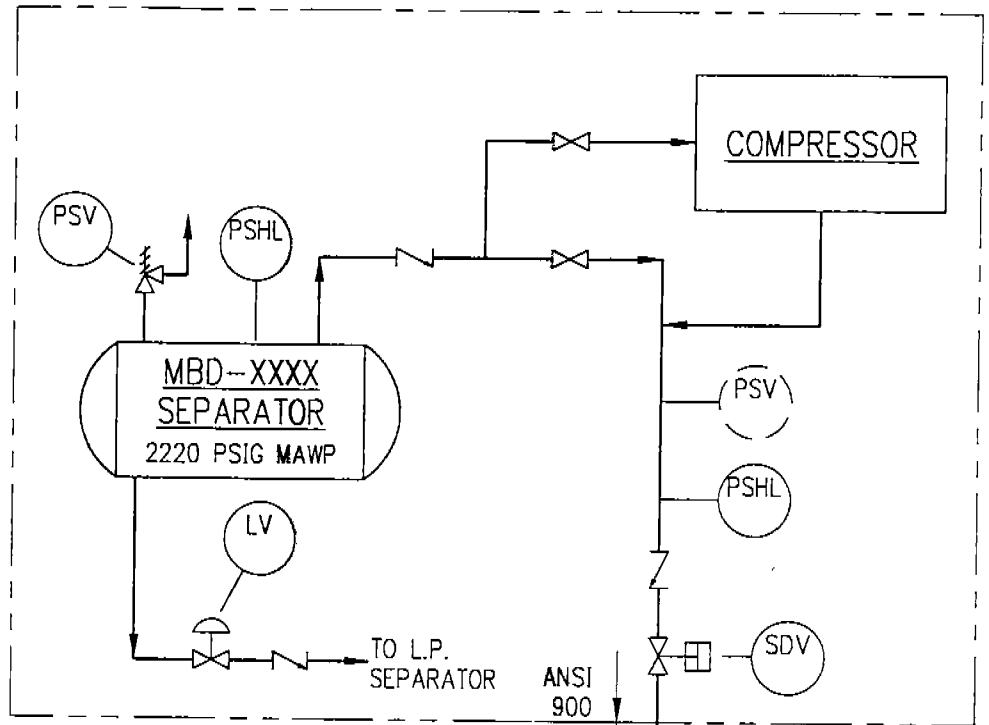
JOHN E. CHANCE
& ASSOCIATES, INC.

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

SCALE AS SHOWN

Job No.: 00-3923	Date: 02/20/01	Drwn: MGK	Chart: 0f:
Dwgfile: H:\2000\003923\CAD\MARINE\003923PP (E)			2 2

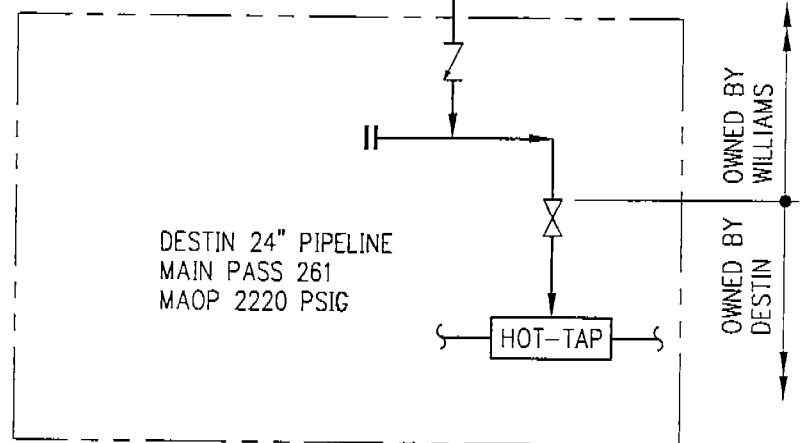
WILLIAMS FIELD SERVICES
 MAIN PASS 261 "JP"
 PRODUCTION PLATFORM
 OCS-G-13035



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, 100 LB. BRACELET TYPE, GALVALUM III.
6. TOTAL PIPELINE LENGTHS = 5,890 FEET; 1.12 MILES.
7. PIPELINE MAOP = 2220 PSIG.

DESTIN
 MAIN PASS 261
 SUBSEA TIE-IN
 SEGMENT No. 11930



PINNACLE ENGINEERING, INC.
 HOUSTON, TEXAS

WILLIAMS FIELD SERVICES
 GULF COAST COMPANY, L.P.



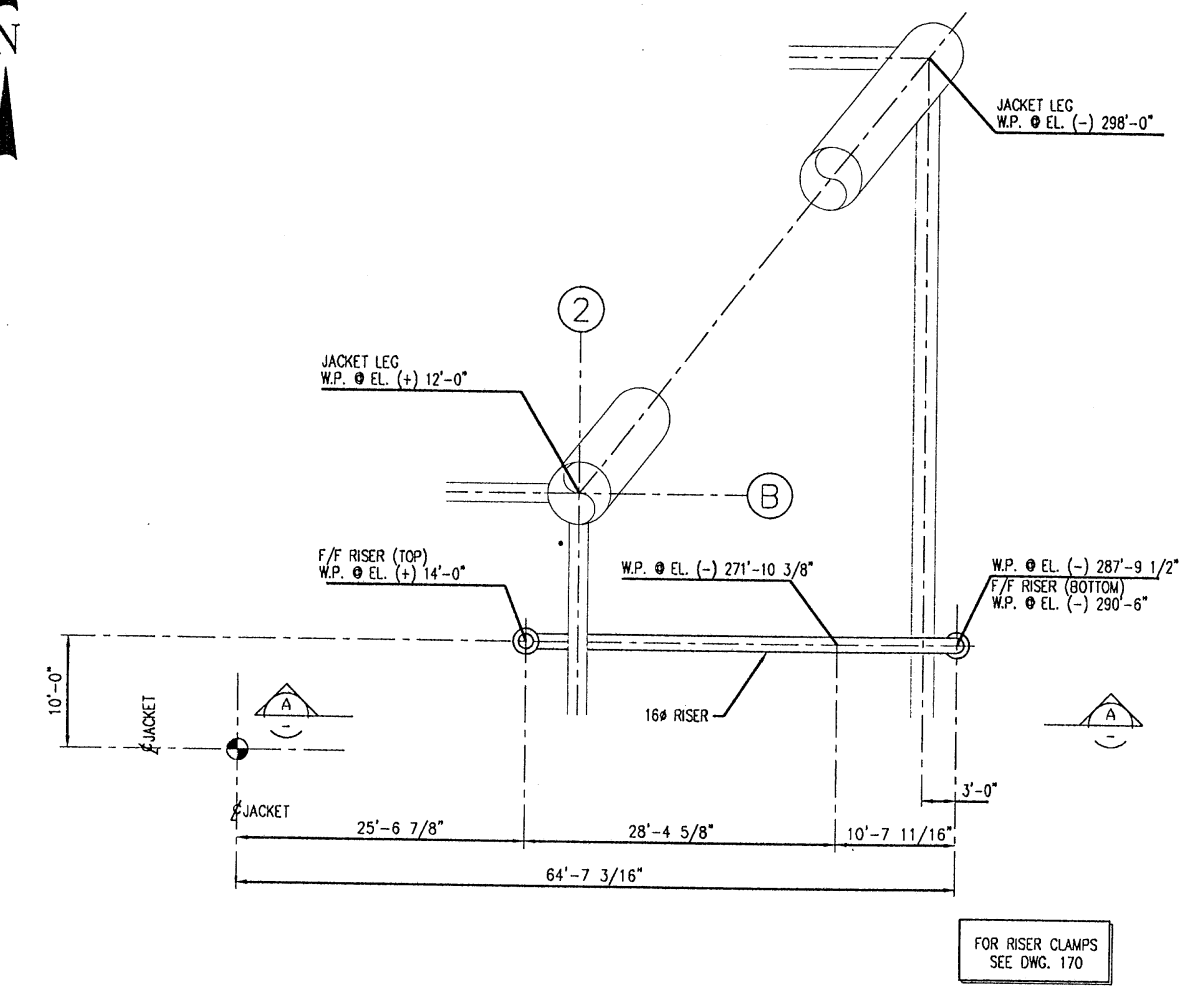
MAIN PASS 261 "JP" TO
 MAIN PASS 261 DESTIN 24" PIPELINE

SCHEMATIC FOR 16.000" O.D. GAS PIPELINE

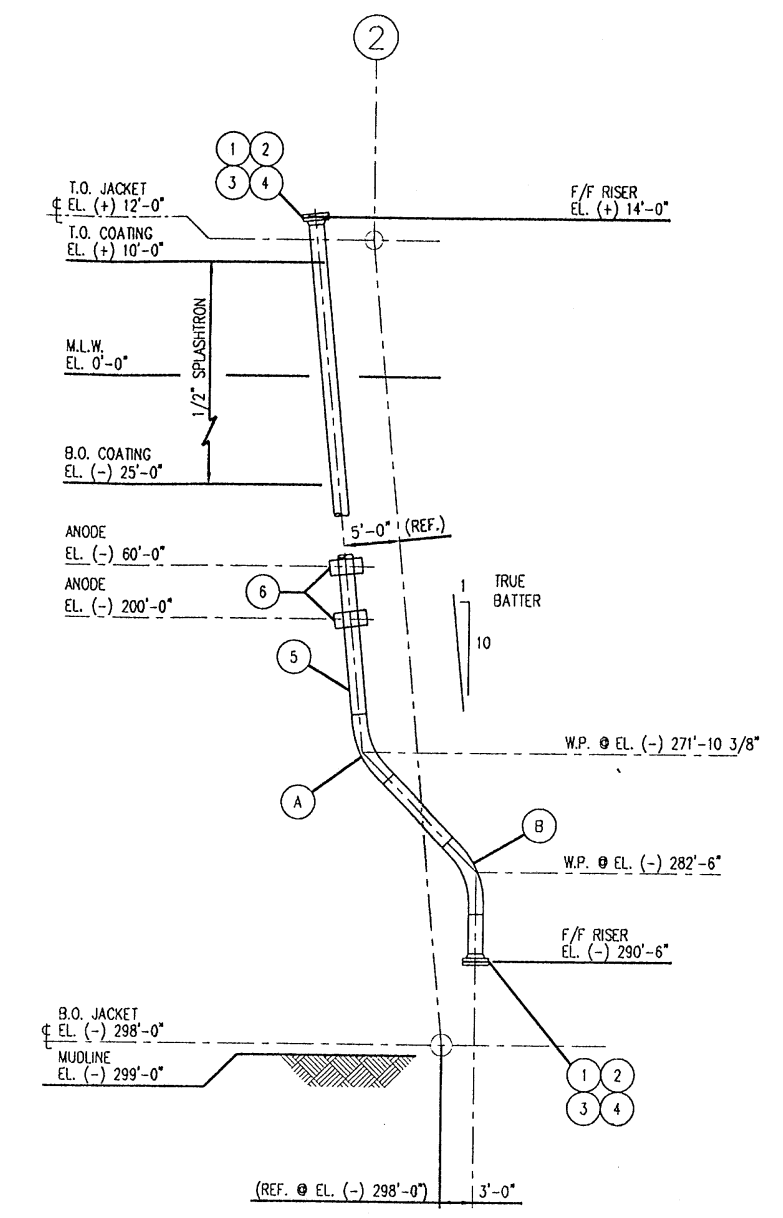
JOB NO. 490700

DWG NO. 901

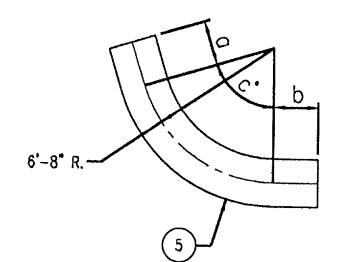
REV. 0



PLAN



SECTION



BEND SCHEDULE			
ITEM	a *	b *	c *
A	1'-0"	1'-0"	39.29'
B	1'-0"	1'-0"	45'

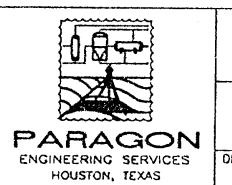
* SEE NOTE 7

BILL OF MATERIAL			
ITEM NO	REQD.	DESCRIPTION	SUPPLIED BY
1	2	16"-900# RTJ W/ FLG.	-
2	2	16"-900# RTJ BLIND FLG. W/ 1" TAP AND PLUG	-
3	40	1 5/8" x 11 3/4" STUD BOLTS W/ NUTS	-
4	2	16"-900# RTJ TYPE R GASKET	-
5	320'	16"x.625 SMLS. PIPE API 5L GR. X-60	WILLIAMS
6	2	ANODE GALVALUM III FOR 16" PIPE	-

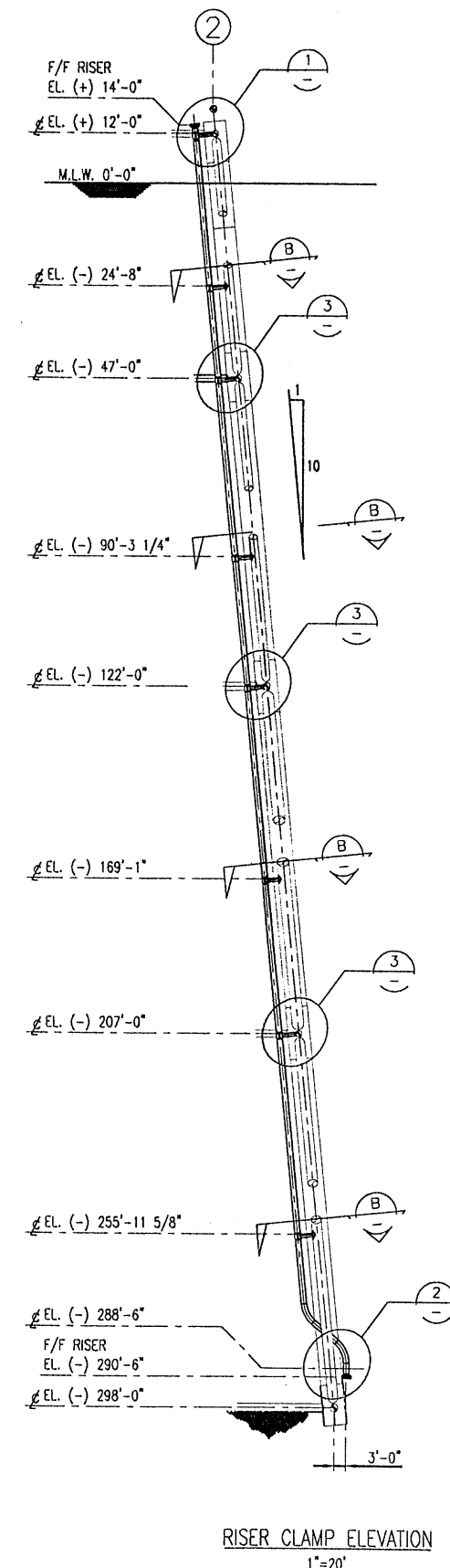
- NOTES:
- FOR GENERAL NOTES, SEE DWG. 001.
 - RISER TO BE COATED WITH FBE 16 MILS NOMINAL (14 MIN./22 MAX.) BELOW SPLASHTRON.
 - RISER TO BE PAINTED ABOVE SPLASHTRON SAME AS JACKET COATING SYSTEM.
 - ANODES TO BE BRACELET-TYPE, GALVALUM III OR EQUAL. ANODES TO BE SUPPLIED BY COMPANY AND INSTALLED BY 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.

ISSUED FOR CONSTRUCTION
DATE: Mar. 09, 2001

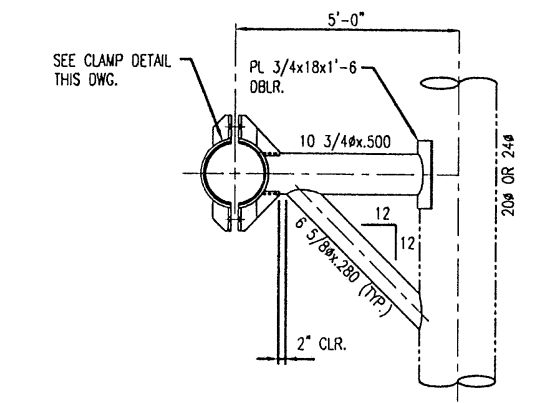
NO.	REVISION	DATE	DRAWN	CHK'D	APP'D	CLIENT A/E NO.
0	ISSUED FOR CONSTRUCTION	03/09/01	LC	MCK	LDD	
A	ISSUED FOR MATERIAL ORDER	03/02/01	DFF	MCK	LDD	



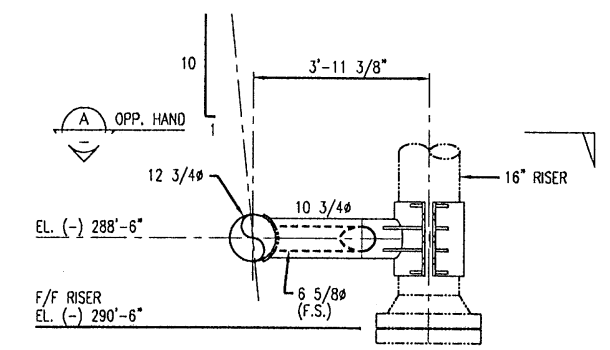
ENGINEER MCK	DATE 03/09/01
DRAWN DFF	DATE 02/15/01
CHECKED DFF	DATE 03/09/01
APPROVED LDD	DATE 03/09/01
SCALE 1/8"=1'-0"	SHEET 1 OF 1
JOB NO. A0177	CLIENT WILLIAMS
DRAWING NO. 88-2365-S10-09-169	REV. 0



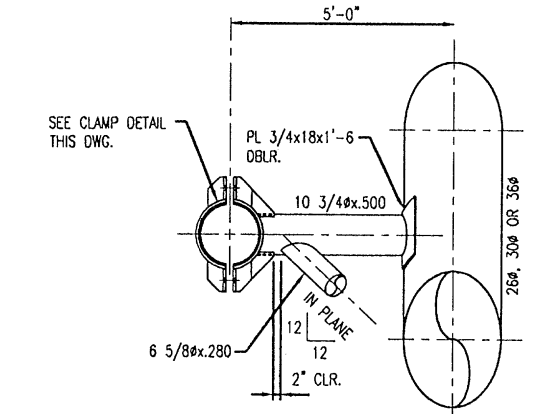
RISER CLAMP ELEVATION
1"=20'



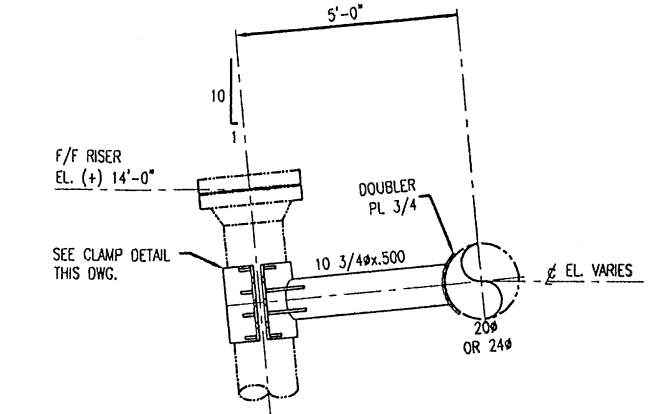
SECTION A



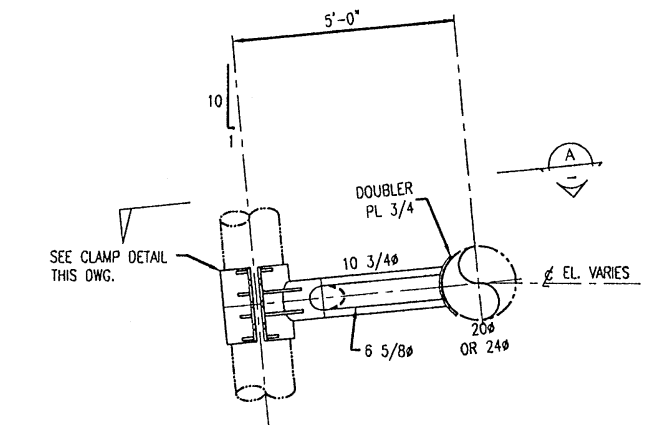
DETAIL 2



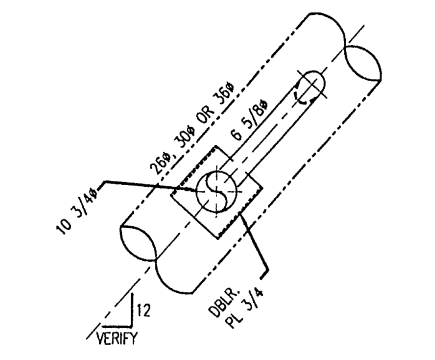
SECTION B



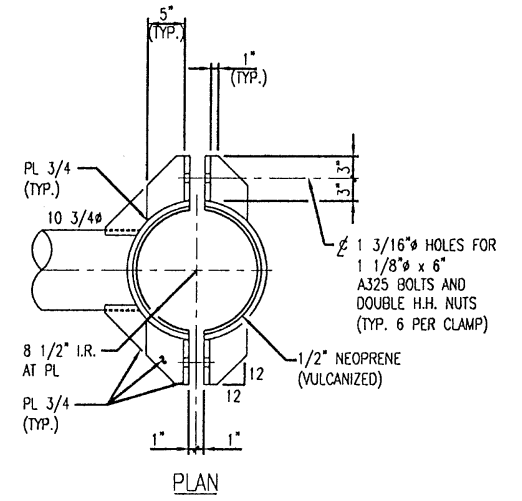
DETAIL 1



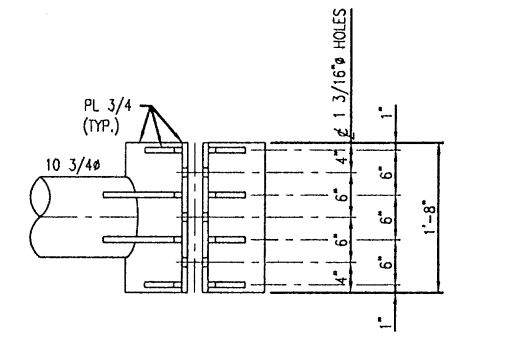
DETAIL 3



TYP. DOUBLER PLATE TO DIAGONAL DETAIL



PLAN



ELEVATION

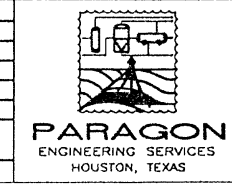
16" CLAMP DETAIL
1"=1'-0"

ISSUED FOR CONSTRUCTION
DATE: Mar. 09, 2001

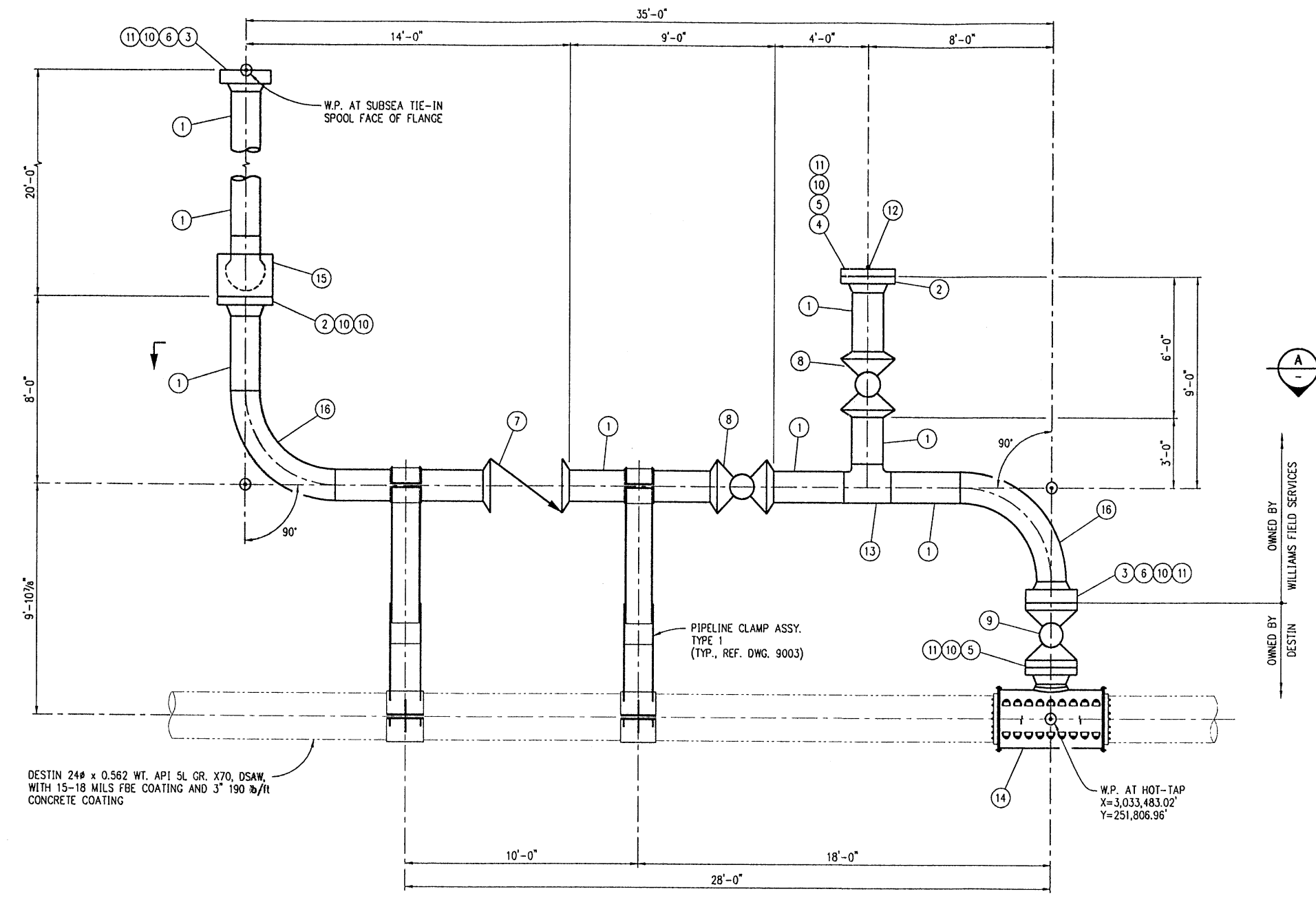
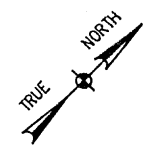
- NOTES:
- FOR GENERAL NOTES, SEE DWG. 001.
 - RISER CLAMPS NOT AT SPLASHTRON COATED AREA TO HAVE 1/2" THICK NEOPRENE VULCANIZED TO INSIDE SURFACE OF CLAMP.
 - RISER CLAMPS ABOVE (-) 10'-0" TO BE PAINTED SAME AS JACKET COATING SYSTEM. CLAMPS BELOW (-) 10'-0" TO BE BARE METAL.
 - ALL CLAMP MATERIAL TO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

NO.	REVISION	DATE	DRAWN	CHK'D	APP'D	CLIENT
0	ISSUED FOR CONSTRUCTION	03/09/01	EAS	DJP	LOD	WILLIAMS

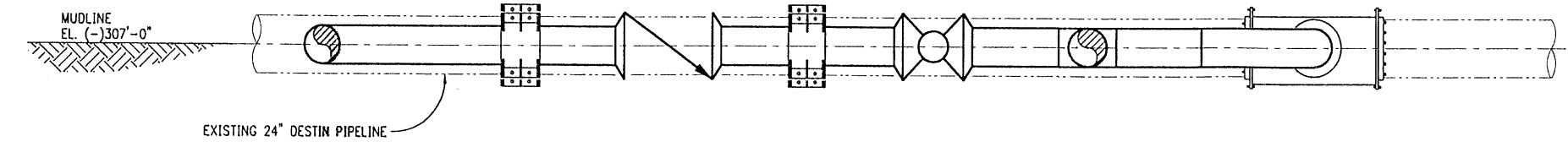
ENGINEER	MCK	DATE	03/09/01
DRAWN	EAS/MAR	DATE	02/05/01
CHECKED	DJP	DATE	03/09/01
APPROVED	LOD	DATE	03/09/01
SCALE	1/2" = 1'-0"	SHEET	1 OF 1
JOB NO.	A0177		
CLIENT	WILLIAMS		
CLIENT A/E NO.			



WILLIAMS ENERGY SERVICES MP 261-JP "CANYON STATION"	
16" DESTIN RISER CLAMPS	
DRAWING NO. 88-2365-S10-09-170	REV. 0



PLAN
SUBSEA TIE-IN ASSEMBLY AT MP 261
SCALE: 1/2"=1'-0"



MATERIAL SUMMARY		
ITEM	QTY.	DESCRIPTION
1	62 LF.	PIPE, 16" 0.625 WT., API 5L GR. X60, SEAMLESS, COATED w/ 12-14 MILS D.F.T. FUSION BOND EPOXY, SCOTCHKOTE 206N
2	2	FLANGE, 16", WN RTJ, ANSI 900, BTM 0.625 WT GR X60 PIPE, ANSI B16.5, ASTM A105 (Y60)
3	2	FLANGE, 16", SWIVEL-RING, ANSI 900, BTM 0.625 WT GR X60 PIPE, ANSI B16.9, ASTM A105 (Y60)
4	ONE	FLANGE, 16", BLIND, ANSI 900, ANSI B16.5, ASTM A105, CENTER DRILL AND TAP FOR 1" NPT
5	40	BOLTS, 1 1/2" DIA. x 1'-1" LG. STUD ASTM A193 GR B7, w/ (2) ASTM A194 GR 2H HVY. HEX NUTS, IMF-3W COATED, ASSEMBLED AND TAGGED: 16" 900 RTJ
6	40	BOLTS, 1 1/2" DIA. x 1'-3" LG. STUD ASTM A193 GR B7, w/ (2) ASTM A194 GR 2H HVY. HEX NUTS, IMF-3W COATED, ASSEMBLED AND TAGGED: 16" 900 SWIVEL
7	ONE	VALVE, 16", CHECK, WHEATLEY, FULL OPENING, ANSI 900 WE x WE, BTM 0.625 WT. GR X60 PIPE, SWING TYPE, FULL OPEN, LOCK OPEN DEVICE, SUBSEA SERVICE
8	2	VALVE, 16", BALL, CAMERON, FULL PORT, ANSI 900, WE x WE, BTM 0.625 WT. GR X60 PIPE, w/ GEAR OPERATOR, SUBSEA SERVICE
9	ONE	VALVE, 16", BALL, CAMERON, FULL OPENING, ANSI 900, RTJ x RTJ, w/ GEAR OPERATOR, SUBSEA SERVICE
10	5	GASKET, 16", ANSI 900, OCT. RING, R-66, 316 SS
11	5	PROTECTOR, 16" FLANGE, ADVANCE, ANSI 900, c/w INJECTION FITTING AND RELIEF VALVE, 316 SS
12	ONE	PLUG, 1" MNPT, BLEEDER, PLECO 6000#
13	ONE	TEE, 16", STRAIGHT, S/80, ASTM A234, ANSI B16.9 (Y60)
14	ONE	HYDROTAP, 24" x 16", ANSI 900, BIG INCH MARINE SYSTEMS, INC.
15	ONE	FLANGE, 16" BALL FLANGE CONNECTOR, WE x RTJ ASSEMBLY, ANSI 900, BTM 0.625 WT GR X60 PIPE, ANSI B16.5, ASTM A105, COMPLETE w/ STUDS AND NUTS, BIG INCH MARINE SYSTEMS, INC.
16	2	ELL, 16", 90", 3R, ASTM A234, GR. WPB

GENERAL NOTES:

- ALL WELDING AND MATERIAL SHALL BE IN ACCORDANCE WITH ANSI, API 1104 AS PER DESTIN 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 DESTIN 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 2200 PSIG.
- CONTRACTOR TO INSTALL FLANGE PROTECTORS AND FILL WITH SUITABLE GREASE.
- SUPPORT SANDBAGS SHALL BE CEMENT STABILIZED.
- 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 ENERGY SERVICES.



OWNED BY
WILLIAMS FIELD SERVICES
DESTIN

LOREN FOWLER 03/07/01 13:42 480758002.DWG

NOTES

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ISSUED FOR PERMIT/APPROVAL			
NO.	DATE	DESCRIPTION	BY

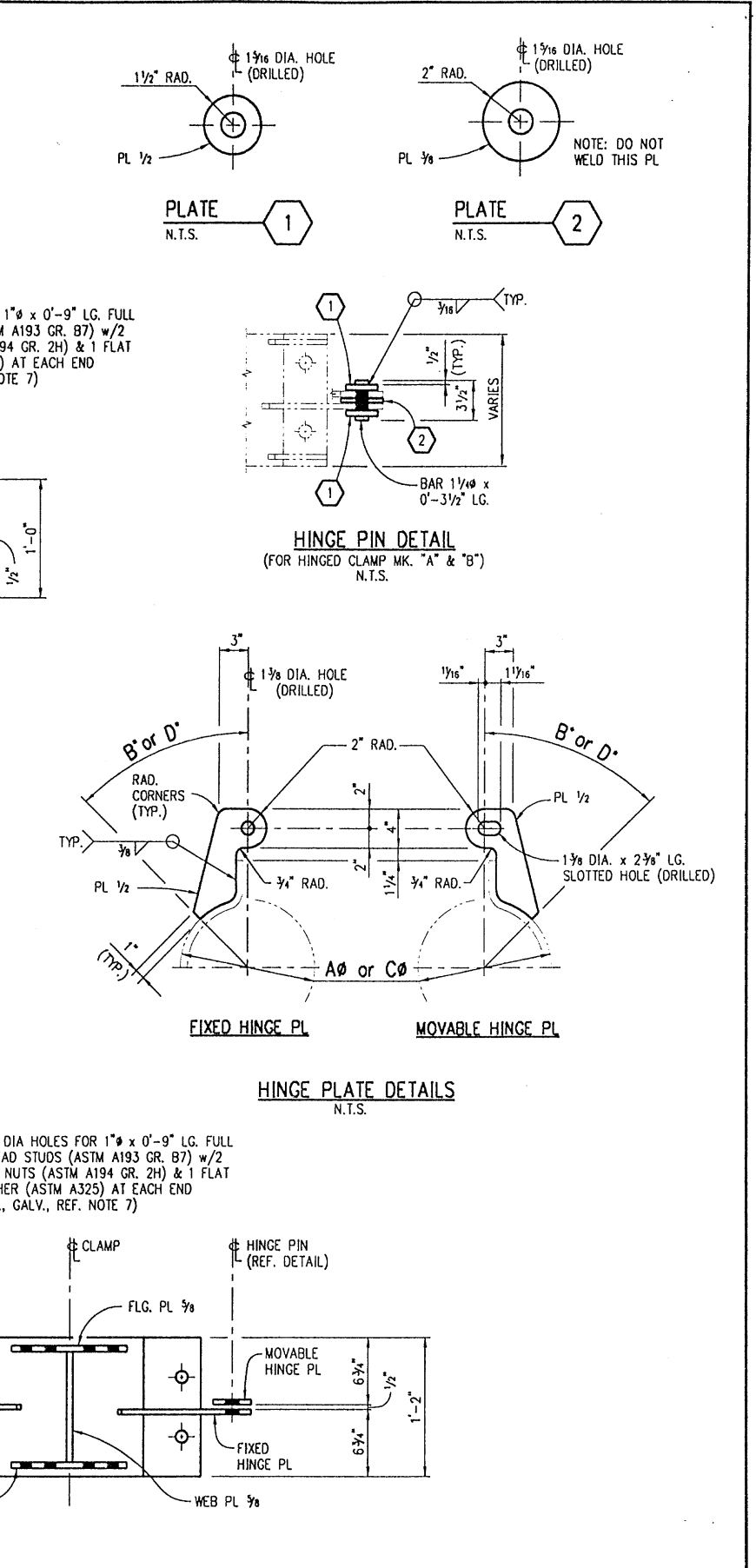
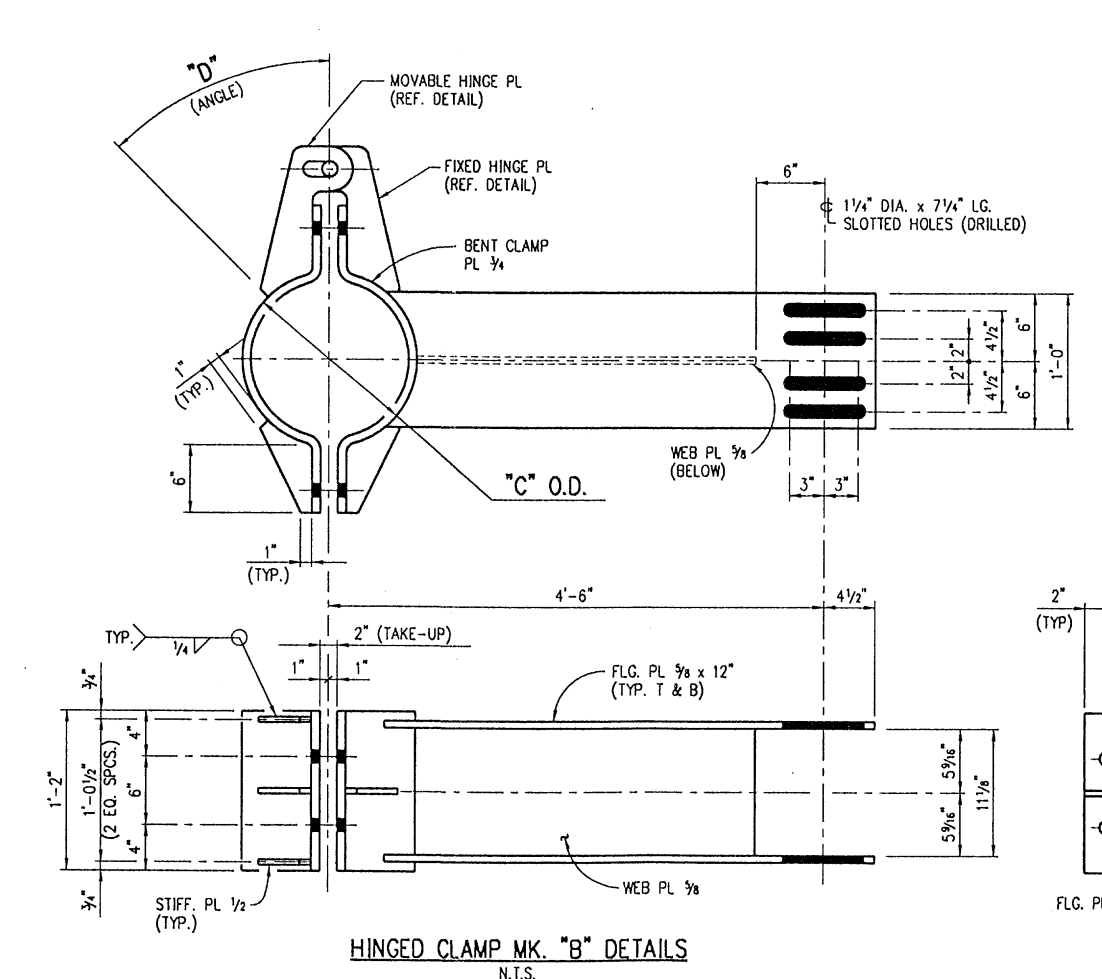
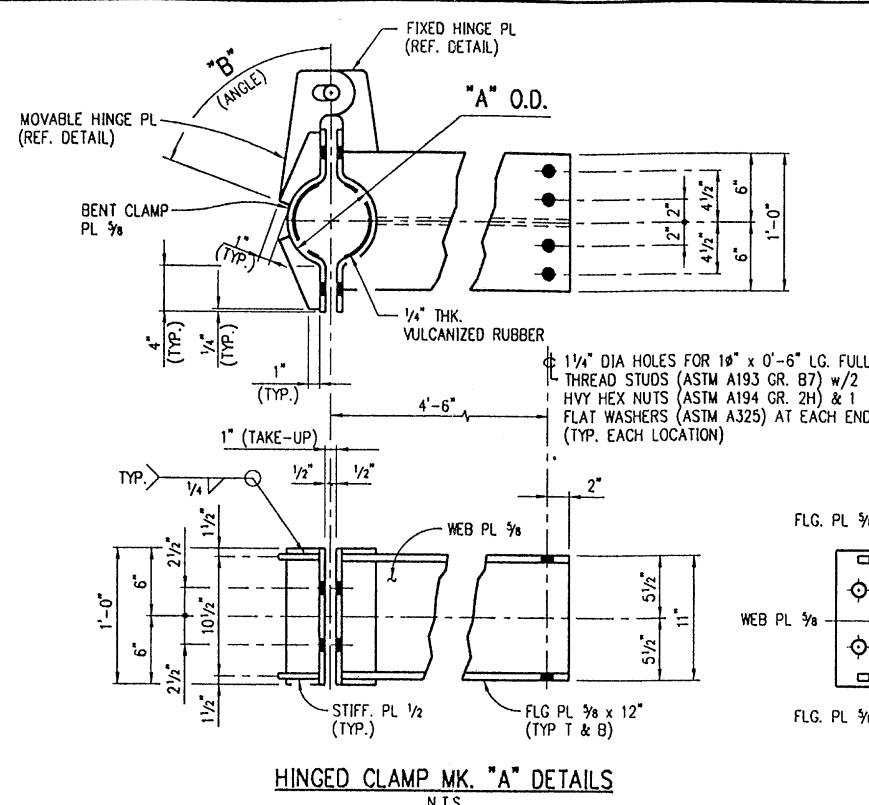
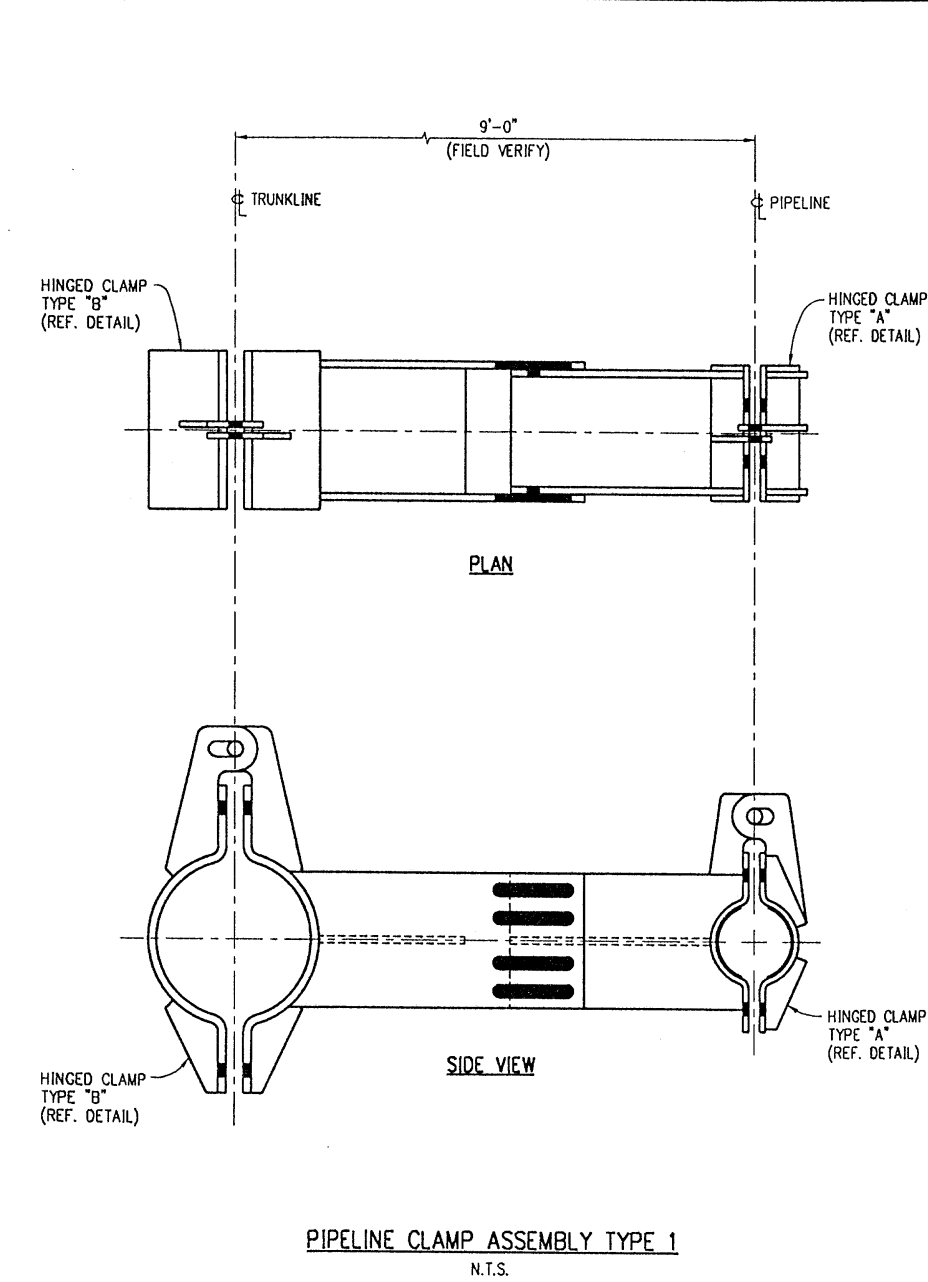
PINNACLE ENGINEERING, INC.
HOUSTON, TEXAS

WILLIAMS FIELD SERVICES
GULF COAST COMPANY, L.P.
16" PIPELINE
MAIN PASS 261 "SP" TO 24" DESTIN PIPELINE
HOT-TAP ASSEMBLY DETAILS

APPROVAL
Drawn By: R. DEHLUFF
Date: 1-30-01
Checked By: _____
Date: _____
Designed By: _____
Date: _____
Approved By: _____
Date: _____

JOB NO. 490700 SCALE: NOTED DWG. NO. 9002 REV. A

PIPELINE CLAMP ASSEMBLY SCHEDULE											
TYPE	NO. REQ'D.	PIPELINE DIAMETER	HINGED CLAMP MK. "A"			TRUNKLINE DIAMETER	HINGED CLAMP MK. "B"			FOR LOCATION	
			"A"	"B"	RUBBER		"C"	"D"	RUBBER		
1	2	16"	18"	45'	YES	24"	32"	45'	NO	REF. DWG. 9002	



- NOTES
- FABRICATOR SHALL CHECK CLAMP HINGE FOR BINDING AFTER FABRICATION.
 - FABRICATION AND INSTALLATION OF CLAMPS SHALL BE IN ACCORDANCE WITH THE CONTRACT AND SPECIFICATIONS.
 - RISER CLAMPS SHALL BE PAINTED IN ACCORDANCE WITH COMPANY SPECIFICATIONS.
 - ALL PIPE SHALL BE API 5L GR. B OR EQUAL.

- ALL WELDING AND FABRICATION TO BE IN ACCORDANCE WITH AWS D1.1 AND API RP 2A (LATEST EDITION). ALL WELDING TO BE FULL PENETRATION UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS NOTED OTHERWISE.
- ALL STUDS USED IN CLAMPS SHALL BE DOUBLE NUTTED ON BOTH ENDS.

NO.	DATE	DESCRIPTION	BY	APPR.

PINNACLE ENGINEERING, INC.
HOUSTON, TEXAS

APPROVAL	
Drawn By	R. DEHLGFF
Date	1-31-01
Checked By	
Date	
Designed By	
Date	
Approved By	
Date	

WILLIAMS FIELD SERVICES
GULF COAST COMPANY, L.P.

16" PIPELINE
MAIN PASS 261 "UP" TO 24" DESTIN PIPELINE

PIPELINE CLAMP DETAILS

JOB NO. 490700 SCALE: NOTED DWG. NO. 9003 REV. A

Robb Detail 02/26/01 08:44 49079003.DWG