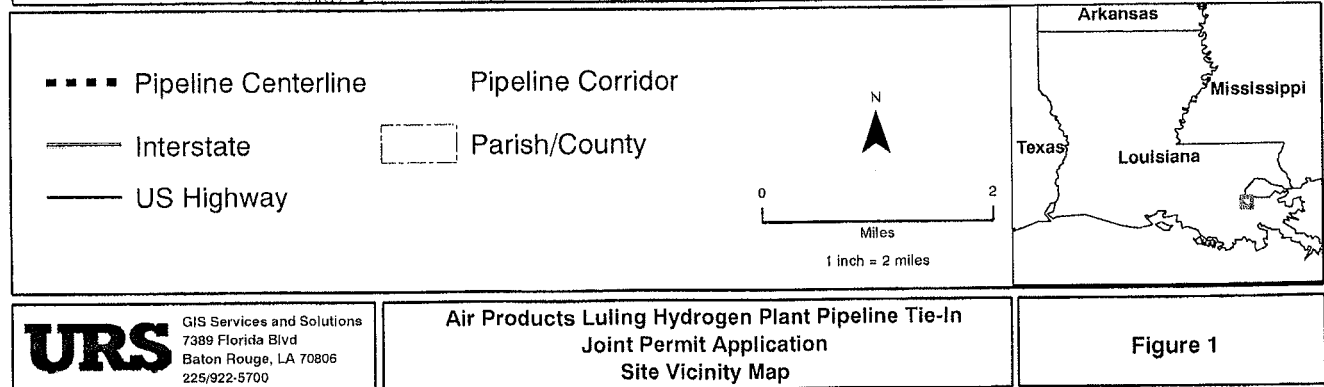
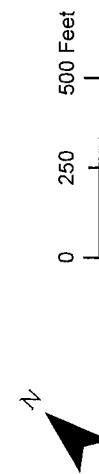
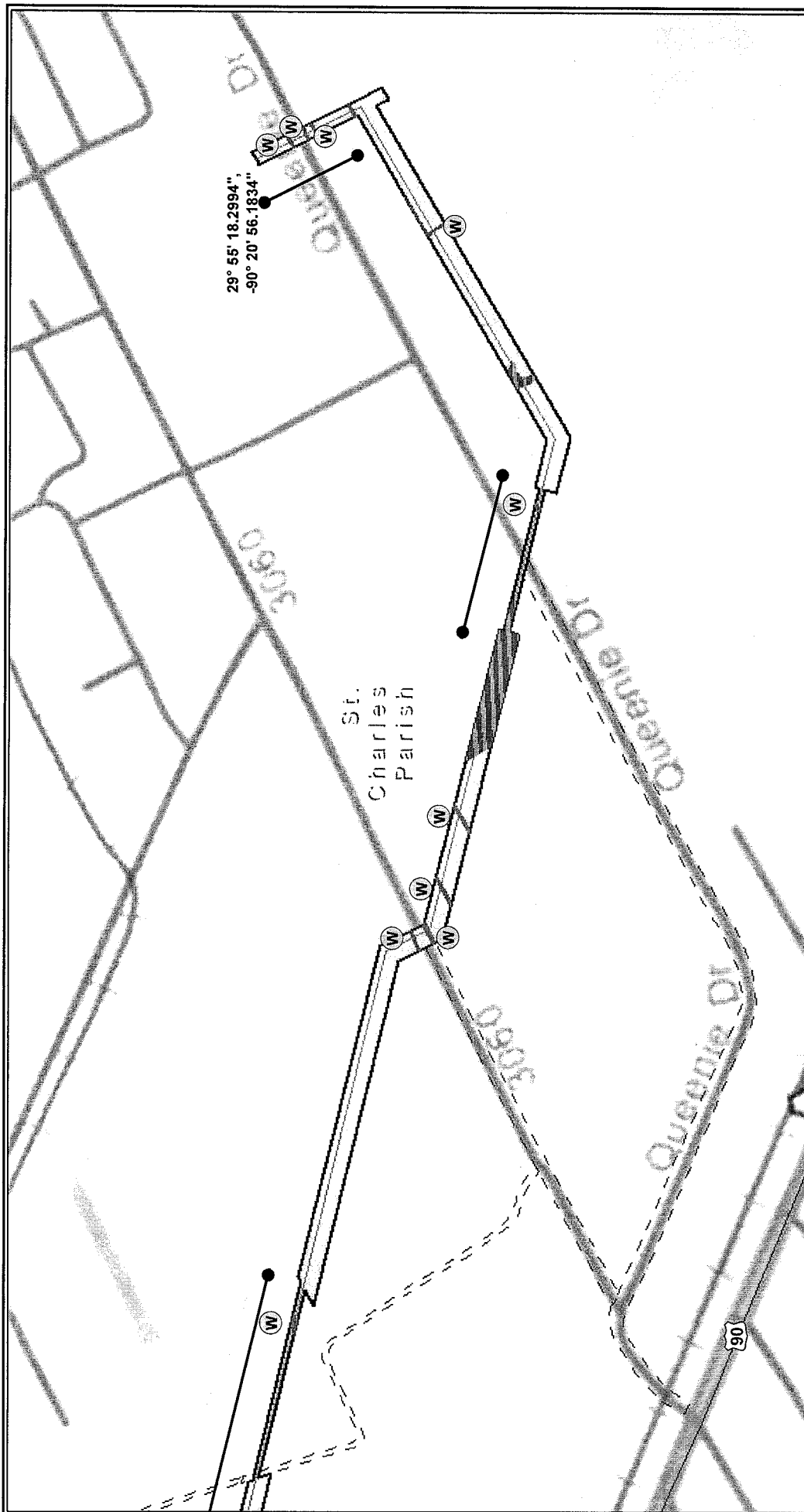












Map Document (I:\GIS\PROJECTS\LOUISIANA\AIR_PRODUCTS_7_Mile\KXDAP_Luling_Figure1_topo.mxd)





 Pipeline Centerline
 Trench Corridor
 Jurisdictional Wetland
 Waters of the US
 Access Road
 Parish/County
 Interstate
 US Highway
 Horizontal Directional Drilling
 Roads

Map Document: (\\GIS\PROJECTS\LOUISIANA\AIR PRODUCTS 7 Mile\MXD\AP Luling_Figure3 Wetland_Polygons_Overview.mxd)

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Baton Rouge, Louisiana 70806
225/922-5700

URS

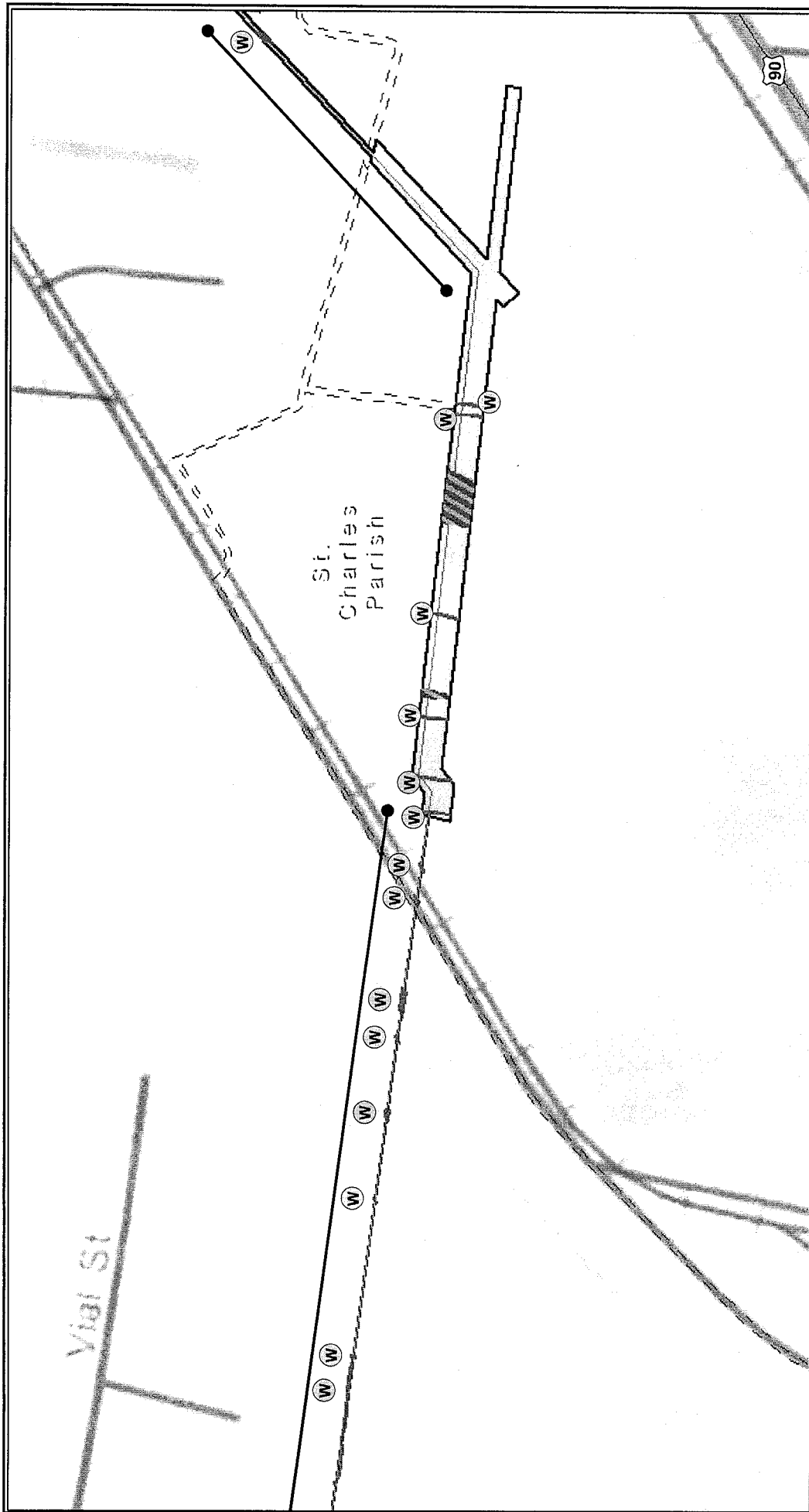
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| SCALE: AS SHOWN | DRAWN BY: BRG | DATE: 03/03/11 |
| | CHKD. BY: YSG | DATE: 03/03/11 |

JOINT PERMIT APPLICATION
AIR PRODUCTS LULING HYDROGEN
PIPELINE TIE-IN

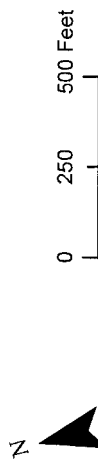
OVERVIEW
WETLAND AND WOUS POLYGONS

PROJ. NO.
19229294

FIG. NO. 3-1



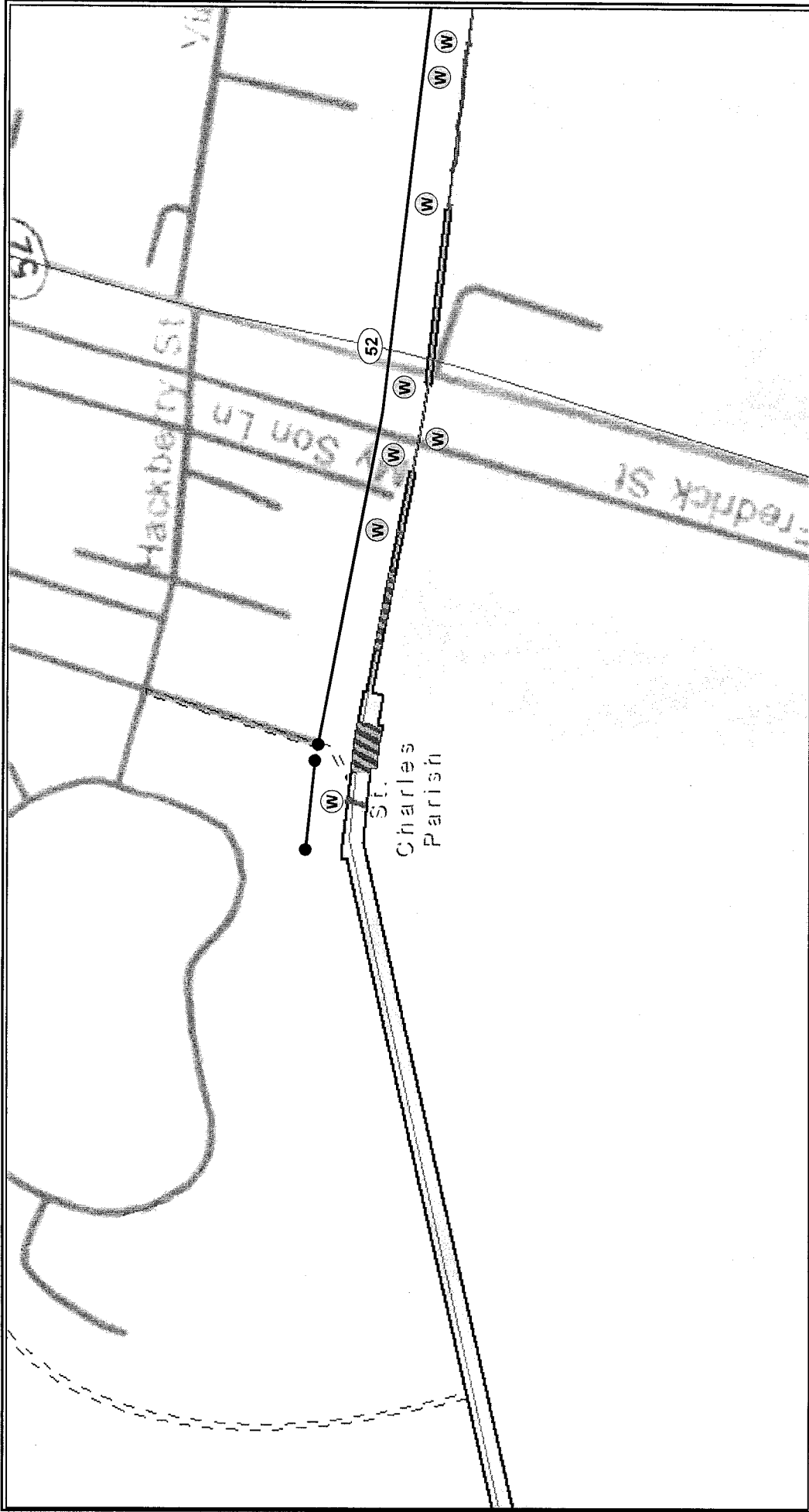
- Pipeline Centerline
- Trench Corridor
- ▨ Jurisdictional Wetland
- W Waters of the US
- - - Access Road
- ▭ Parish/County
- Horizontal Directional Drilling
- Roads
- Interstate
- US Highway



Map Document: (\\GIS\PROJECTS\LOUISIANA\AIR PRODUCTS 7 Mile\XDAP Luling_Figure3 Wetland Polygons Overview.mxd)

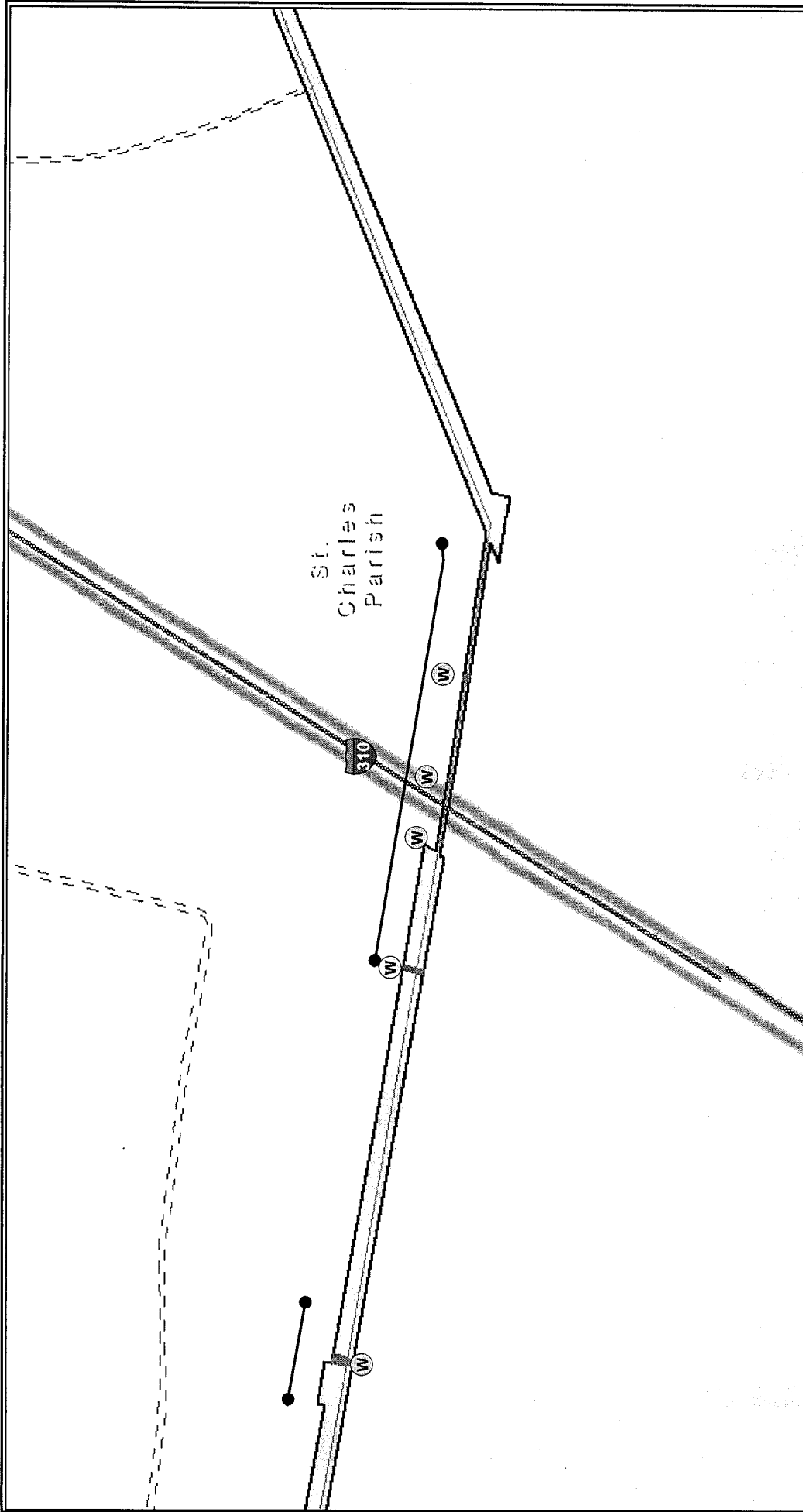
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| AIR PRODUCTS | | URS | | 7389 Florida Blvd., Suite 300 Baton Rouge, Louisiana 70806 225/922-5700 | | JOINT PERMIT APPLICATION AIR PRODUCTS LULING HYDROGEN PIPELINE TIE-IN | | PROJ. NO. 19229294 |
| | | | | | | OVERVIEW WETLAND AND WOUS POLYGONS | | FIG. NO. 3-2 |
| SCALE: AS SHOWN | | DRAWN BY: BRG CHKD. BY: YSG | | DATE: 03/03/11 DATE: 03/03/11 | | | | |

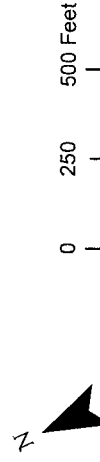


- Horizontal Directional Drilling
- Roads
- Interstate
- US Highway
- Waters of the US
- Access Road
- Parish/County
- Jurisdictional Wetland
- Pipeline Centerline
- Trench Corridor

| | | | |
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| Map Document: (I:\GIS\PROJECTS\LOUISIANA\AIR_PRODUCTS_7_Mile\XDAP_Luling_Figure3_Wetland_Polygons_Overview.mxd) | | World Topographic Map service provided by ESRI | |
| URS 7389 Florida Blvd., Suite 300 Baton Rouge, Louisiana 70806 225/922-5700 | | JOINT PERMIT APPLICATION | |
| | | AIR PRODUCTS LULING HYDROGEN PIPELINE TIE-IN | |
| AIR PRODUCTS | | OVERVIEW | |
| | | WETLAND AND WOUS POLYGONS | |
| SCALE: AS SHOWN DRAWN BY: BRG CHKD. BY: YSG DATE: 03/03/11 DATE: 03/03/11 | | PROJ. NO. 19229294 FIG. NO. 3-3 | |





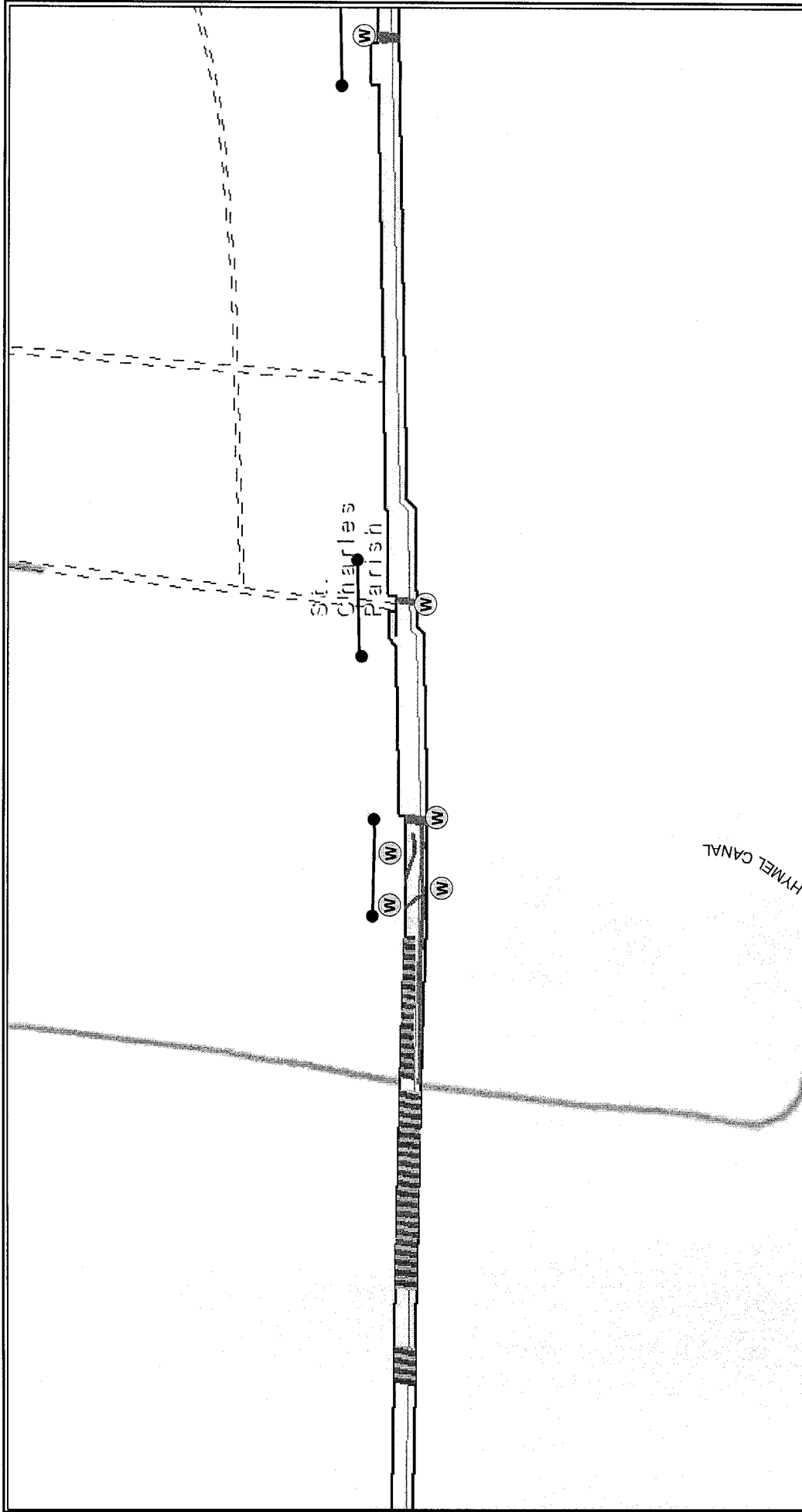
- Legend**
- Pipeline Centerline
 - Trench Corridor
 - Jurisdictional Wetland
 - Waters of the US
 - Access Road
 - Parish/County
 - Horizontal Directional Drilling
 - Roads
 - Interstate
 - US Highway



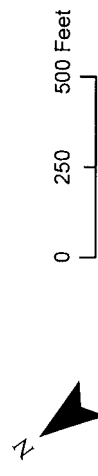
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|  |  7389 Florida Blvd., Suite 300 Baton Rouge, Louisiana 70806 225/922-5700 | | | | JOINT PERMIT APPLICATION | | PROJ. NO. 19229294 |
| | | | | | AIR PRODUCTS LULING HYDROGEN PIPELINE TIE-IN | | |
| | | | | | OVERVIEW | | FIG. NO. 3-4 |
| | | | | | WETLAND AND WOUS POLYGONS | | |
| SCALE: AS SHOWN | | DRAWN BY: BRG CHKD. BY: YSG | | DATE: 03/03/11 DATE: 03/03/11 | | | |



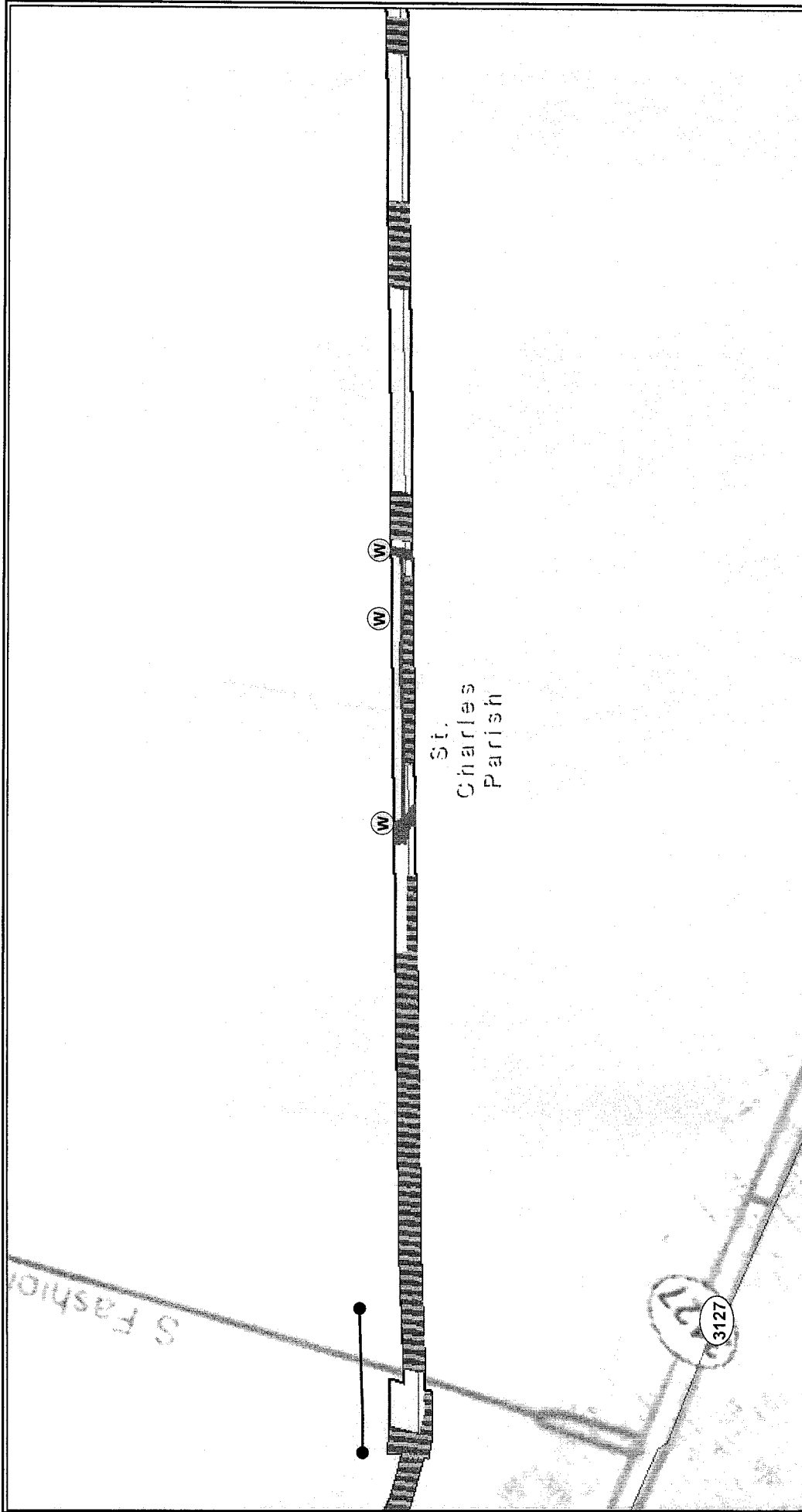
- Pipeline Centerline
- Trench Corridor
- Jurisdictional Wetland
- Waters of the US
- Access Road
- Parish/County
- Horizontal Directional Drilling
- Roads
- Interstate
- US Highway



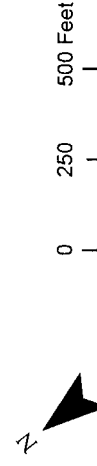
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| | | URS 7389 Florida Blvd., Suite 300 Baton Rouge, Louisiana 70806 225/922-5700 | |
| SCALE: AS SHOWN | | DRAWN BY: BRG CHKD. BY: YSG | DATE: 03/03/11 DATE: 03/03/11 |
| JOINT PERMIT APPLICATION AIR PRODUCTS LULING HYDROGEN PIPELINE TIE-IN | | OVERVIEW WETLAND AND WOUS POLYGONS | |
| PROJ. NO. 19229294 | | FIG. NO. 3-5 | |




- | | | |
|--|--|--|
| <ul style="list-style-type: none"> — Pipeline Centerline — Trench Corridor — Jurisdictional Wetland | <ul style="list-style-type: none"> ● Waters of the US — Access Road — Parish/County | <ul style="list-style-type: none"> ● Horizontal Directional Drilling — Roads — Interstate — US Highway |
|--|--|--|

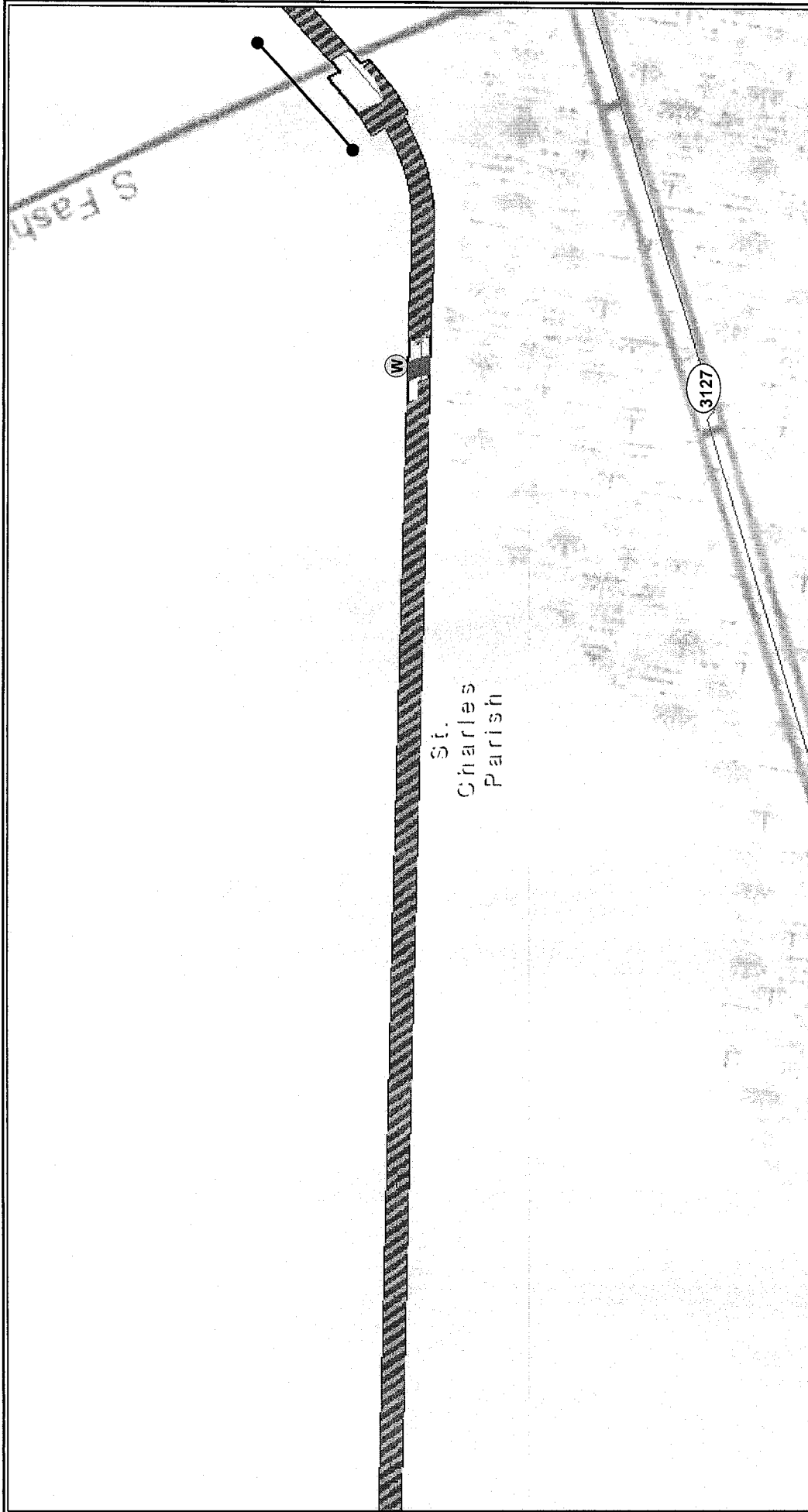


Map Document: (L:\GIS\PROJECTS\LOUISIANA\AIR PRODUCTS 7 Mile\XDAP Luling_Figure3_Wetland Polygons Overview.mxd)

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| <div>  </div> | | <div> URS 7389 Florida Blvd., Suite 300 Baton Rouge, Louisiana 70806 225/922-5700 </div> | | <div> JOINT PERMIT APPLICATION AIR PRODUCTS LULING HYDROGEN PIPELINE TIE-IN </div> | <div> PROJ. NO. 19229294 </div> |
| | | <div> SCALE: AS SHOWN </div> | | <div> OVERVIEW WETLAND AND WOUS POLYGONS </div> | <div> FIG. NO. 3-6 </div> |

| | |
|---------------|----------------|
| DRAWN BY: BRG | DATE: 03/03/11 |
| CHKD. BY: YSG | DATE: 03/03/11 |



Horizontal Directional Drilling

Roads

Interstate

US Highway

Waters of the US

Access Road

Parish/County

Pipeline Centerline

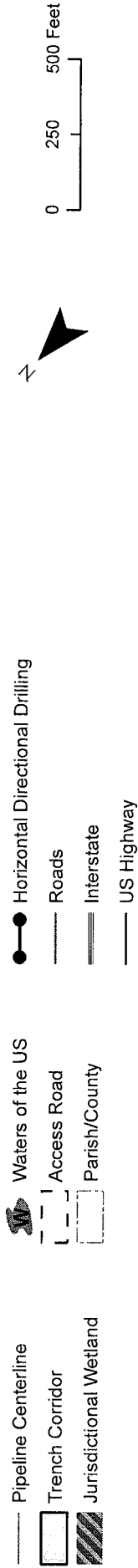
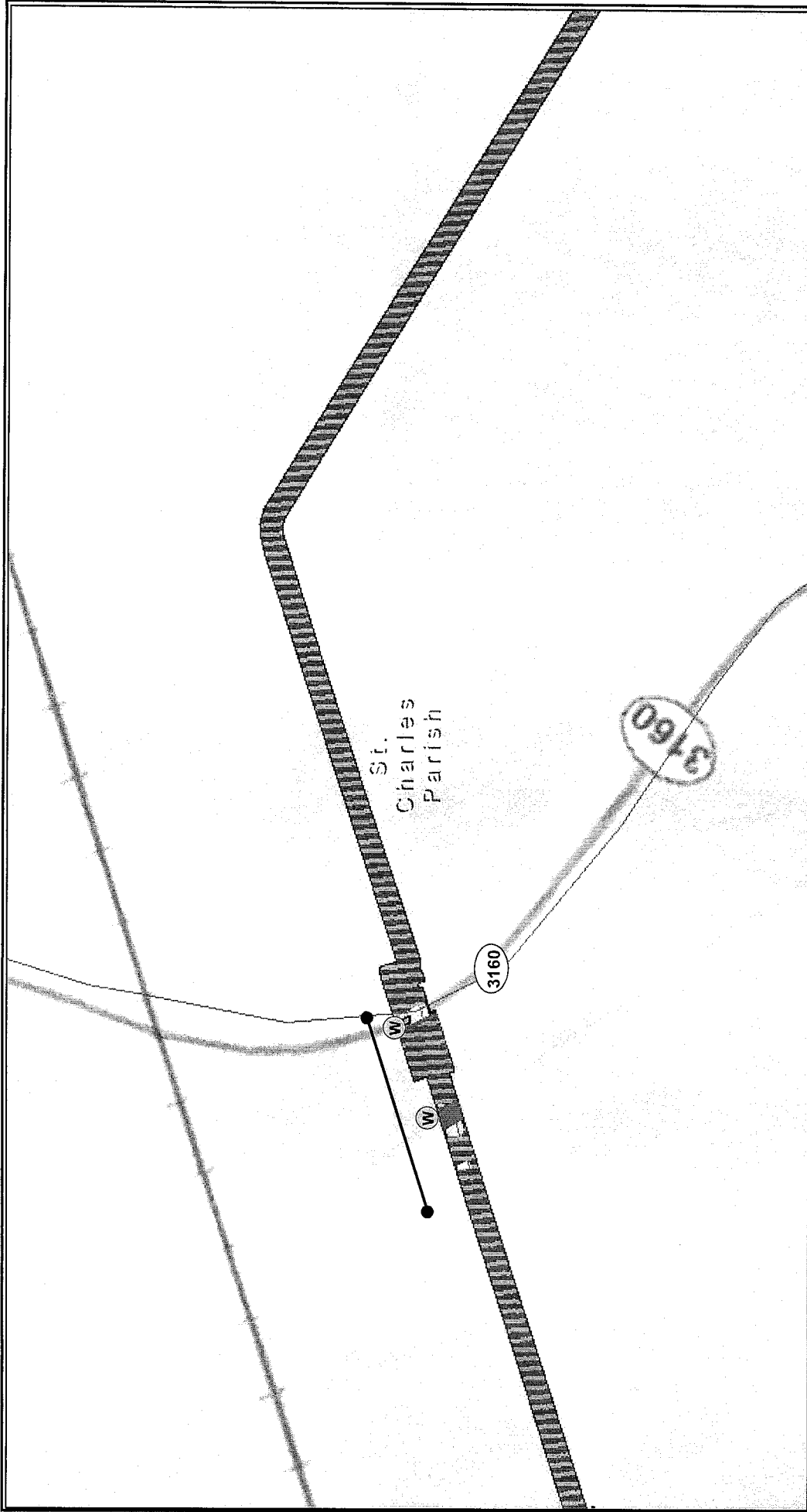
Trench Corridor

Jurisdictional Wetland

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Map Document: (\\GIS\PROJECTS\LOUISIANA\AIR PRODUCTS 7 Mile\MXD\AP Luling_Figure3 Wetland Polygons Overview.mxd)

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| AIR PRODUCTS | | URS 7389 Florida Blvd., Suite 300 Baton Rouge, Louisiana 70806 225/922-5700 | | JOINT PERMIT APPLICATION AIR PRODUCTS LULING HYDROGEN PIPELINE TIE-IN | | PROJ. NO. 19229294 |
| | | SCALE: AS SHOWN | | OVERVIEW WETLAND AND WOUS POLYGONS | | FIG. NO. 3-7 |
| | | DRAWN BY: BRG | DATE: 03/03/11 | | | |
| | | CHKD. BY: YSG | DATE: 03/03/11 | | | |



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| AIR PRODUCTS | | URS 7389 Florida Blvd., Suite 300 Baton Rouge, Louisiana 70806 225/922-5700 | | JOINT PERMIT APPLICATION AIR PRODUCTS LULING HYDROGEN PIPELINE TIE-IN | | PROJ. NO. 19229294 |
| | | SCALE: AS SHOWN | | DRAWN BY: BRG CHKD. BY: YSG | | FIG. NO. 3-8 |
| AIR PRODUCTS | | OVERVIEW WETLAND AND WOUS POLYGONS | | OVERVIEW WETLAND AND WOUS POLYGONS | | |
| | | | | DATE: 03/03/11 DATE: 03/03/11 | | |

St.
Charles
Parish

29° 57' 57.96",
-90° 26' 18.8154"

Horizontal Directional Drilling

Waters of the US



Pipeline Centerline

Trench Corridor



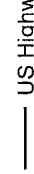
Access Road

Jurisdictional Wetland



Parish/County

US Highway



0 250 500 Feet

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JOINT PERMIT APPLICATION
AIR PRODUCTS LULING HYDROGEN
PIPELINE TIE-IN

PROJ. NO.
19229294

OVERVIEW
WETLAND AND WOUS POLYGONS

FIG. NO.
3-9

SCALE:
AS SHOWN

DRAWN BY: BRG
CHKD. BY: YSG

DATE: 03/03/11
DATE: 03/03/11

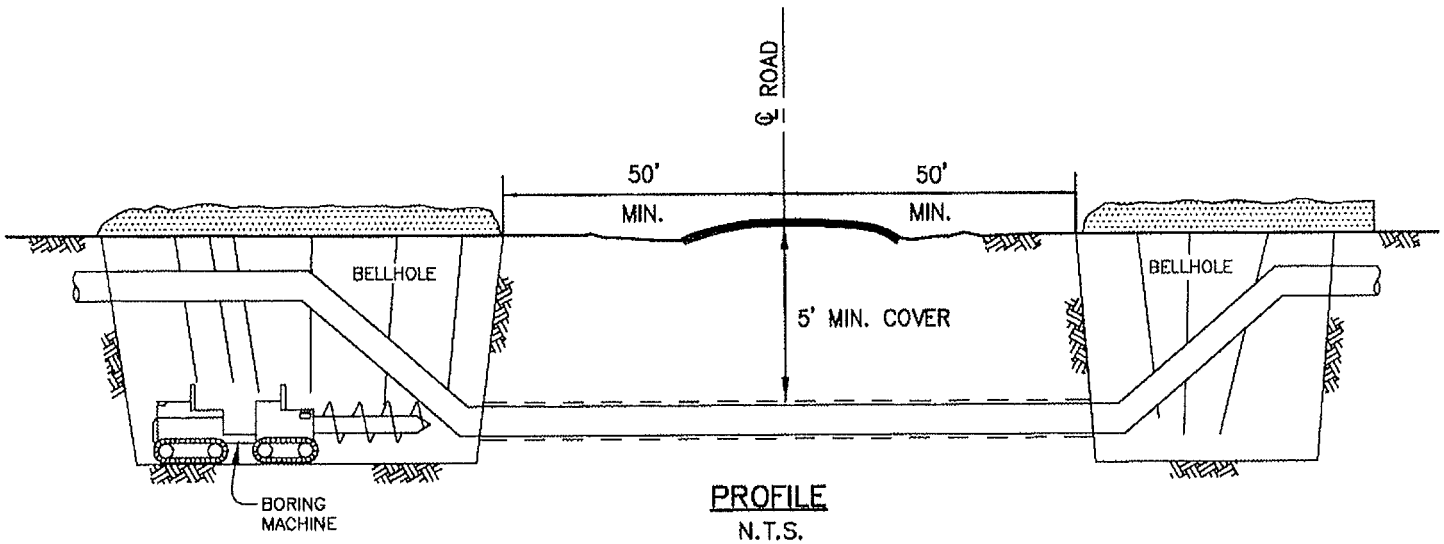
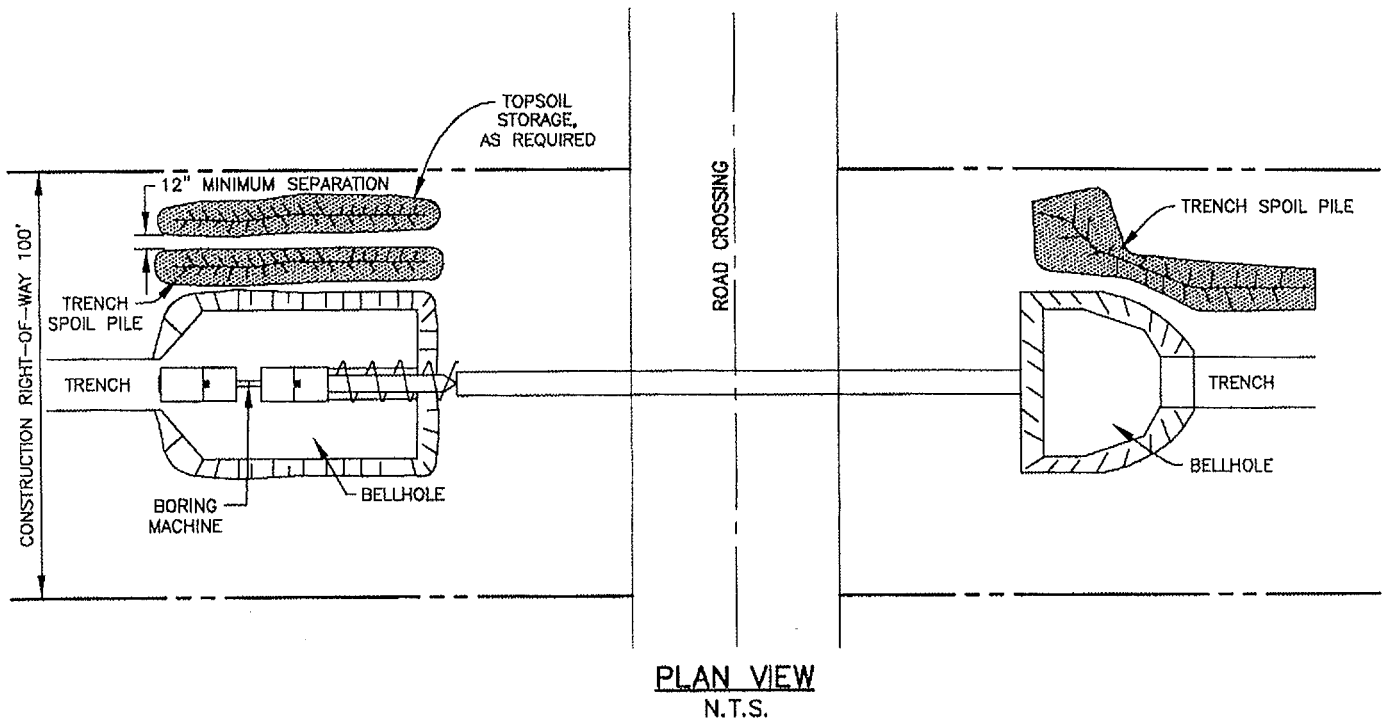
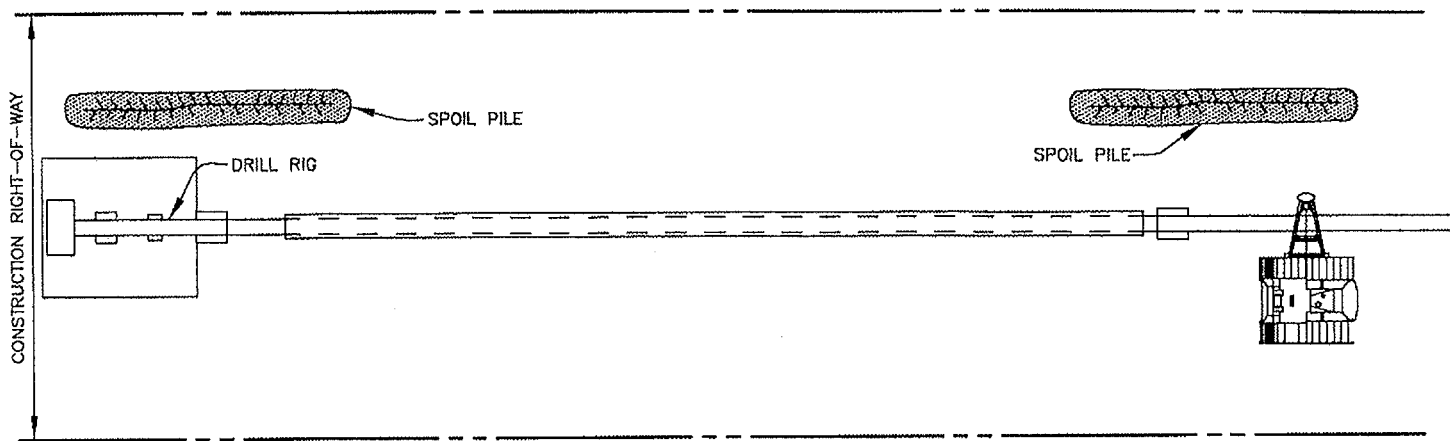


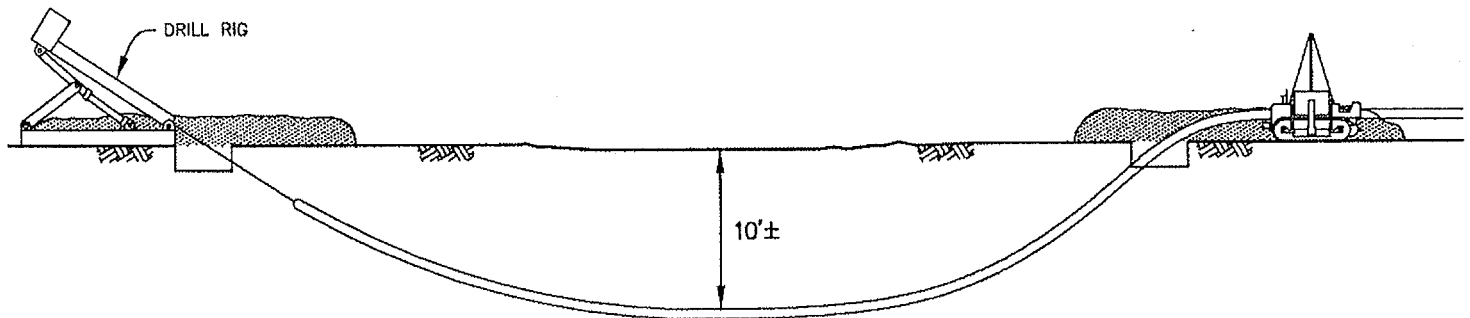
Figure 7

| | | | | |
|---|------------|-------------|----------------|----------|
| MUSTANG ENGINEERING, L. P. HOUSTON, TEXAS | | | | |
| DRAWN BY | CHECKED BY | APPROVED BY | DATE | DATE |
| MBS | PAC | TG | 09/23/10 | 09/23/10 |
| Air Products and Chemicals, Inc. 7201 Hamilton Boulevard Allentown, PA 18195-1501 | | | | |
| RAILROAD/ ROAD/ CORRIDOR CROSSING BORE METHOD | | | | |
| SCALE | | | DRAWING NUMBER | |
| N.T.S. | | | 16129-99-0004 | |
| REV. | | | REV. | |
| 0 | | | 0 | |

| REV. | REVISION | BY | APP. | DATE |
|------|-------------------|-----|------|-------|
| 0 | ISSUED FOR REVIEW | PAC | TG | 09/10 |





PLAN VIEW
N.T.S.

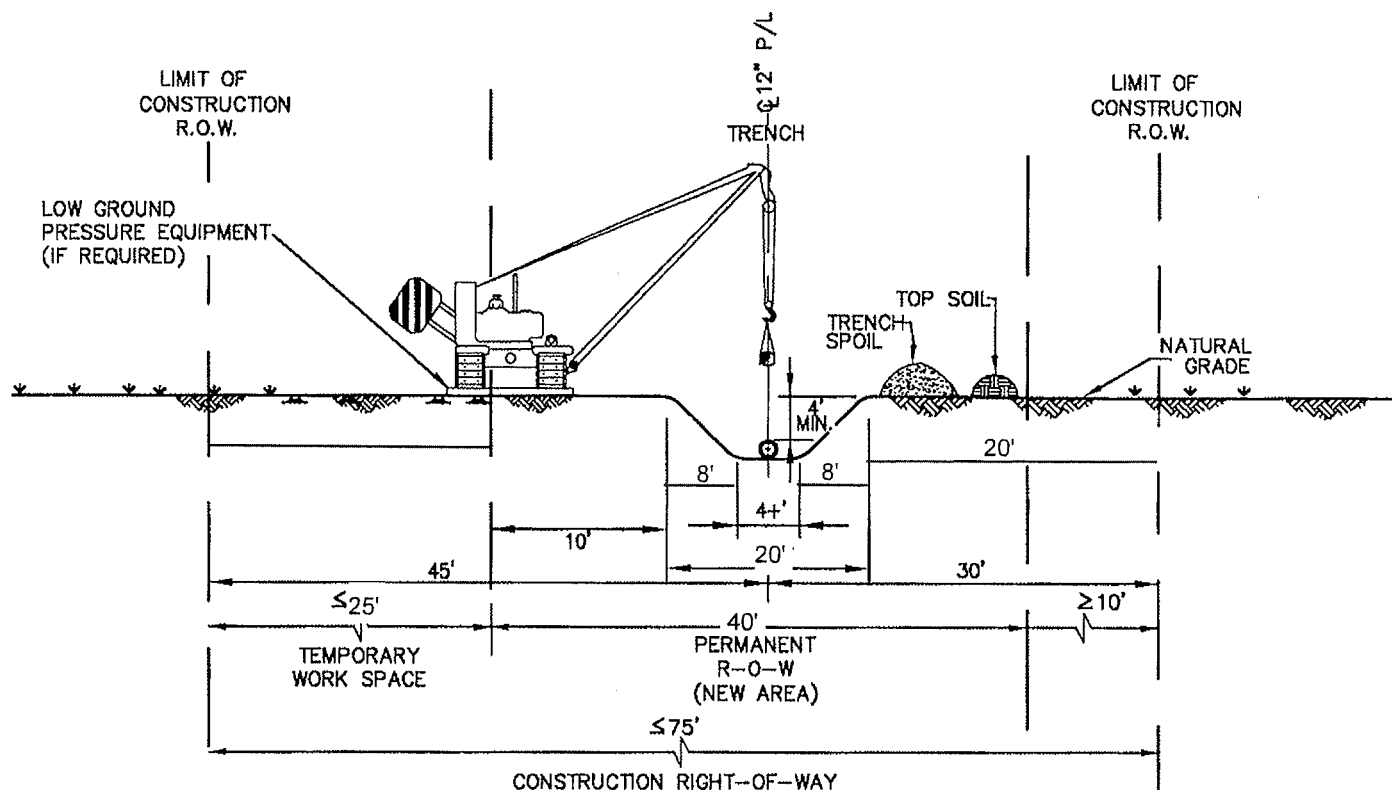


PROFILE
N.T.S.

Figure 8

| | | | | |
|---|-------------------|---------------------------------|---|------------------|
|  MUSTANG ENGINEERING, L. P. HOUSTON, TEXAS | | | | |
| DRAWN BY MBS | CHECKED BY PAC | APPROVED BY TG | DATE 09/23/10 | DATE 09/23/10 |
| Air Products and Chemicals, Inc. 7201 Hamilton Boulevard Allentown, PA 18195-1501 | | |  | |
| <h2>TYPICAL HDD</h2> | | | | |
| SCALE N.T.S. | | DRAWING NUMBER 16129-99-0005 | | REV. 0 |

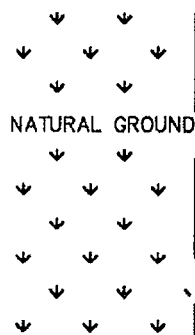
| REV. | ISSUED FOR REVIEW | PAC | TG | 09/10 |
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PROFILE

1:1 1/2:1 SLOPE

TIMBER RIPRAP OR
EQUIPMENT MATS
IF REQUIRED



PLAN VIEW

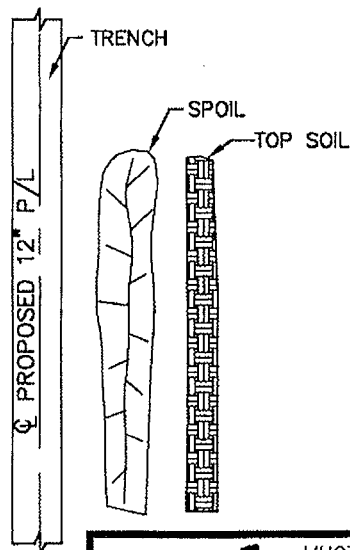


FIGURE 9



MUSTANG ENGINEERING, L. P.

HOUSTON, TEXAS

| | | | | |
|-----------------|-------------------|-------------------|------------------|------------------|
| DRAWN BY DLE | CHECKED BY PAC | APPROVED BY TG | DATE 09/23/10 | DATE 09/23/10 |
|-----------------|-------------------|-------------------|------------------|------------------|

Air Products and Chemicals, Inc.
7201 Hamilton Boulevard
Allentown, PA 18195-1501



TYP. CROSS SECTION (SINGLE) PIPELINE
OPEN CUT INSTALLATION

| | | | | |
|------|-------------------|-----|------|-------|
| 0 | ISSUED FOR REVIEW | PAC | TG | 09/10 |
| REV. | REVISION | BY | APP. | DATE |

| | | |
|-----------------|---------------------------------|-----------|
| SCALE N.T.S. | DRAWING NUMBER 16129-99-0001 | REV. 0 |
|-----------------|---------------------------------|-----------|