



COPY

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, GALVESTON DISTRICT
5151 FLYNN PARKWAY, SUITE 306
CORPUS CHRISTI, TEXAS 78411-4318

March 12, 2019

Corpus Christi Field Office

SUBJECT: Withdrawal of Department of the Army Permit Application SWG-2018-00789

Axis Midstream Holdings, LLC
ATTN: Mr. David O'Dell
5005 Riverway, Suite 110
Houston, Texas 77056-2123

Dear Mr. O'Dell:

This is in reference to your permit application submitted on December 27, 2018, requesting to construct a series of pipelines and terminal facilities to transport, store, and load marine transport vessels with crude oil. The proposed pipelines would start at the proposed Midway Tank Farm Facility located 5 miles south of Taft, Texas; from there head northeast crossing State Highway (SH) 181 where they would take a dogleg southeast towards Aransas Pass, Texas, terminating at the proposed Redfish Tank Farm Facility off FM 2725; and then spanning Redfish Bay and the Gulf Intracoastal Water Way (GIWW) where the proposed project terminates at the proposed Harbor Island Terminal Facility in Port Aransas, Nueces County, Texas.

In a letter, dated February 1, 2019, the United States Army Corps of Engineers (Corps) requested additional to continue our review of your proposed project. The Corps advised you that if we did not receive all of the requested information within 30 days, your permit application would be withdrawn. As of the date of this letter, the Corps has not received all of the information requested in our February 1, 2019 letter. Therefore, your Department of Army Permit application SWG-2018-00789 is hereby withdrawn. This withdrawal is without prejudice to your right to reapply at a later date.

If you have questions or require additional information, please contact Mr. Robert Jones at the letterhead address or by telephone at 361-814-5847 ext. 1010. To assist us in improving our service to you, please complete the survey found at <http://per2.nwp.usace.army.mil/survey.html>.

Sincerely,

Kristi N. McMillan
Interim Supervisor
Corpus Christi Regulatory Field Office

Cc:

Project Consulting Services, Inc., ATTN: Robert Ganczak, 1800 West Loop South, Suite 900, Houston, Texas 77027-3259

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Tuesday, April 16, 2019 2:41 PM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: [Non-DoD Source] RE: Axis Midstream Holdings - Midway to Harbor Island Pipelines and Facilities (SWG-2018-00789)

Thanks for the update. If I don't hear back before Easter, have a happy holiday.

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Tuesday, April 16, 2019 1:20 PM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Subject: RE: Axis Midstream Holdings - Midway to Harbor Island Pipelines and Facilities (SWG-2018-00789)

I am working on getting to it, hopefully this week but its already looking like not. But I will keep you informed as soon as I can. To put it in perspective, I am just now looking at one I got 29 days ago, and you are like third in line past it.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Ganczak, Robert [mailto:rganczak@projectconsulting.com]
Sent: Monday, April 15, 2019 6:30 AM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: [Non-DoD Source] Axis Midstream Holdings - Midway to Harbor Island Pipelines and Facilities (SWG-2018-00789)

Robert:

Just touching base to see if you have had an opportunity to lookover our recent revised permit submission. Please update me at your earliest convenience. Thanks!

Bob

Robert Ganczak

Senior Environmental Specialist
Project Consulting Services, Inc.
1800 West Loop South | Suite 900 | Houston, Texas 77027

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Monday, May 6, 2019 1:43 PM
To: Jones, Robert N CIV USARMY CESWG (USA)
Cc: Leonhard, Richard; Thomas, Charles; David O'Dell
Subject: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); Revised Permit Drawings & additional information
Attachments: 19012_ENV-PER_5-3-19.pdf; 2019-05-03 Alternative Analysis - Exec Summary Rev.0.pdf; 02 Application Supplement, 5.3.pdf

Mr. Jones:

The follow is a brief description of the modifications to the permit drawings as requested by USACE as per the April 30, 2019 meeting.

Page No.

Permit Drawing Modification/Revision

18

-Removal of oyster Areas 1 & 2. No reef, scattered shell.

32

-Adjustment of equipment within no wet areas. Wetland impacts further minimized.

38

-Revised verbiage with note to eliminate reference to plantings.

-Replaced cross section A-A' to depict a breakwater and sediment trap along the shoreline.

39

-Updated tables eliminating reference to oyster reef impacts, including conceptual mitigation fill volume and affected acreage and update facility names

A

-New page added to depict alternative spoil material disposal areas.

Also attached please find the Alternatives Analysis - Executive Summary and the updated ENG Form 4345 Supplement (Items 21 & 22). A hard copy of this submittal and the landowner mailing labels will be sent to your attention by Fed Ex.

Should there be any questions, do not hesitate to contact me. Thanks!

Bob

Robert Ganczak

Senior Environmental Specialist

Project Consulting Services, Inc.

1800 West Loop South | Suite 900 | Houston, Texas 77027

Main: 713.952.7380 | Direct: 713.407.2480 | Mobile: 281.381.7563 | Fax: 713.952.7082

rganczak@projectconsulting.com <mailto:rganczak@projectconsulting.com> | Blockedwww.projectconsulting.com
<Blockedhttp://www.projectconsulting.com/>

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HOUSTON, TX 77027
(713) 952-7380 Fax (713) 952-7082
www.projectconsulting.com

MAY 07 2019

DOCUMENT TRANSMITTAL

TRANSMITTAL NO.: 1 DATE: 05/06/2109

PROJECT NAME: Axis Midstream; Revised Permit Drawings & additional information PCS JOB #: 19012: 002

TO: Mr. Robert Jones
Corps of Engineers – Galveston District, Corpus Christi Office
5151 Flynn Pkwy., Suite 306
Corpus Christi, Texas 78411

SENT BY: Robert J. Ganczak

No. Copies	Document Date	Document No. / Type	Rev. No.	Title/Description
1	05/03/2019	Revised Permit Drawings	2	Revised Permit Drawings (pp. 18, 32, 38, 39 & A) – SWG 2018-00789
1	05/02/2019	Alternatives Analysis - Executive Summary	0	Alternatives Analysis - Executive Summary – SWG 2018-00789
1	05/03/2019	ENG Form 4345 - Updated Supplement	2	Supplemental Information – Form Approved – OMB 0710-0003
1	--	Address Labels	--	Landowner Address Labels

REASON FOR TRANSMITTAL:

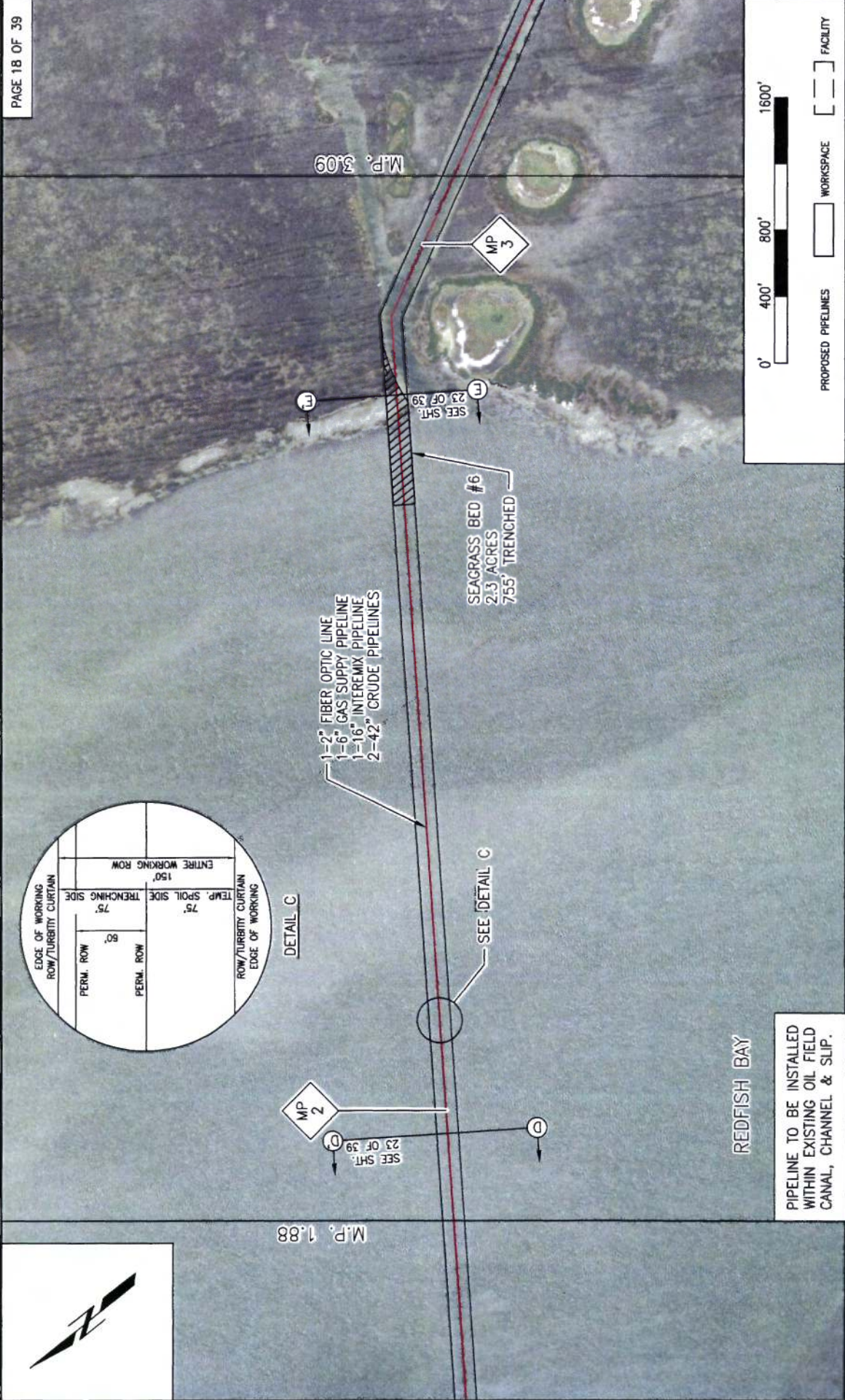
- | | |
|--|--|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as noted |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Returned for corrections |
| <input type="checkbox"/> As requested | <input checked="" type="checkbox"/> Other: <u>permit review/processing</u> |
| <input type="checkbox"/> Approved as submitted | |

RECEIVED BY:

SIGNATURE: _____



DATE: 05/06/2019



PLAN VIEW
 PLS: Aransas To Harbor Island

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PREPARED BY: LRW
 CHECKED BY:
 APPROVED BY:
 PROJECT NO.: 19012
 REISSUE DATE: 3/25/19



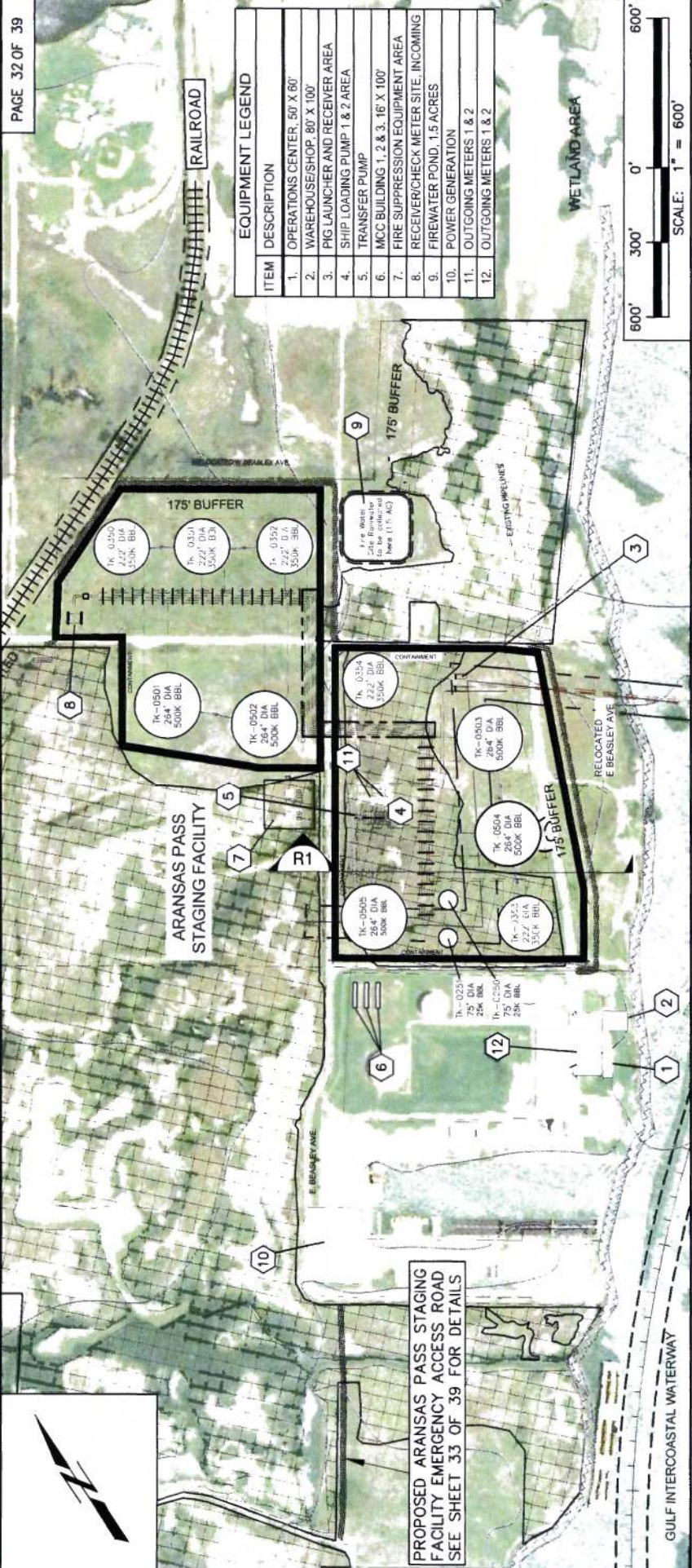
AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC
 Proposed Pipelines & Facilities
 MIDWAY to HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS

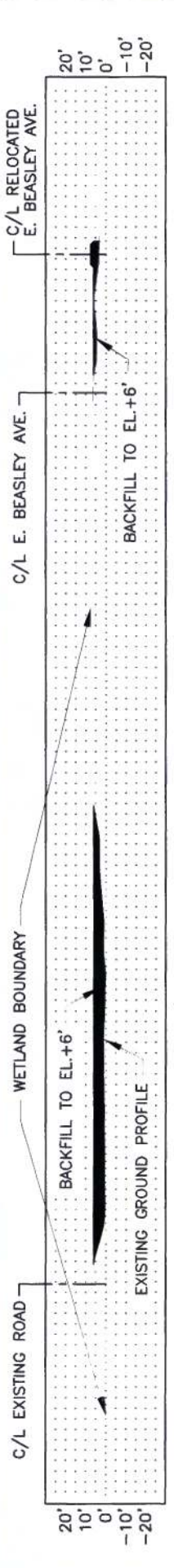
Prepared BY: Project Consulting Services, Inc.

NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

Date: 12/27/2018
 Revised: 3/3/2019, 5/3/2019



ITEM	DESCRIPTION
1.	OPERATIONS CENTER, 50' X 80'
2.	WAREHOUSE/SHOP, 80' X 100'
3.	PIG LAUNCHER AND RECEIVER AREA
4.	SHIP LOADING PUMP 1 & 2 AREA
5.	TRANSFER PUMP
6.	MCC BUILDING 1, 2 & 3, 16' X 100'
7.	FIRE SUPPRESSION EQUIPMENT AREA
8.	RECEIVER/CHECK METER SITE, INCOMING
9.	FIREWATER POND, 1.5 ACRES
10.	POWER GENERATION
11.	OUTGOING METERS 1 & 2
12.	OUTGOING METERS 1 & 2



R1 CROSS SECTION
SCALE: 1"=150'
VERT. SCALE: 1"=75'

PLAN VIEW/CROSS-SECTION
Arkansas Pass Staging Facility

Date: 12/27/2018
Revised: 3/3/2019, 5/3/2019

NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

AXIS MIDSTREAM HOLDINGS, LLC
Proposed Pipelines & Facilities
MIDWAY TO HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
Prepared BY: Project Consulting Services, Inc.



AXIS MIDSTREAM

PROJECT CONSULTING SERVICES, INC.
www.projectconsulting.com

PREPARED BY: RAM
CHECKED BY:
APPROVED BY:
PROJECT NO.: 19012
REISSUE DATE: 3/25/18

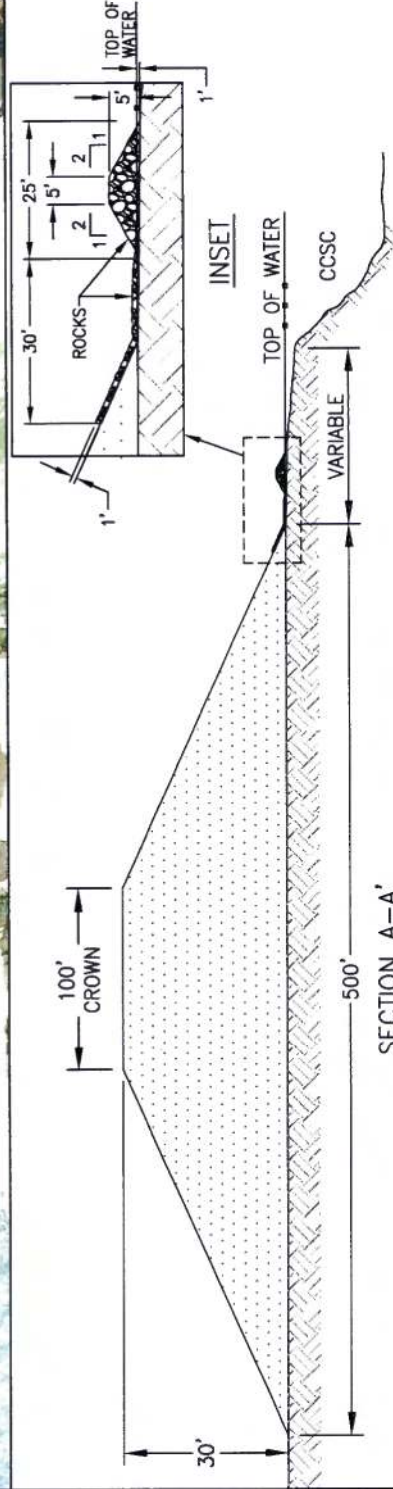
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NOTE:

THE DISPOSAL SITE FOR THE EXCAVATED MATERIAL FROM THE PROPOSED HARBOR ISLAND MARINE TERMINAL WILL BE STRATEGICALLY PLACED ALONG THE NORTHERN BANKLINE OF THE CORPUS CHRISTI SHIP CHANNEL (CCSC), AS DETAILED. AS A CONCEPTUAL COMPENSATORY MITIGATION PLAN, THE MATERIAL IS BEING POSITIONED ALONG THE SHORELINE TO PROTECT THE REDFISH BAY STATE SCIENTIFIC AREA (RBSSA), MORE SPECIFICALLY THE SENSITIVE SEAGRASS BEDS, FROM FURTHER IMPACTS RESULTING FROM THE FAILING SHORELINE BETWEEN THE RBSSA AND THE CCSC.



CONCEPTUAL MITIGATION

PLS & Fac: Midway T.F. to Harbor Island

AXIS MIDSTREAM HOLDINGS, LLC

Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS
Prepared By: Project Consulting Services, Inc.



AXIS MIDSTREAM

Date: 12/27/2018
Revised: 3/3/2019, 5/3/2019

NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

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www.projectconsulting.com

PREPARED BY: LRW
CHECKED BY:
APPROVED BY:
PROJECT NO.: 19072
REISSUE DATE: 3/25/19

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Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

Action	Volume (yd3)	Material Type
Excavation/fill for pipeline installation		
Terrestrial excavation/fill in freshwater wetlands	68,112	Native freshwater marsh
Terrestrial excavation/fill in waterbodies	4,585	Freshwater ponds/drainages
Excavation/fill in seagrass	90,351	Vegetated bay bottoms
Excavation/fill in estuarine wetlands & tidal flats	60,393	Native estuarine marsh
Excavation/fill for pipeline burial in oil & gas canals	52,770	Canal bottom material
Excavation/fill for pipeline burial in Redfish Bay	87,925	Unvegetated bay bottoms
Excavation/Fill at Facilities		
Action	Volume (yd3)	Material Type
Fill for Aransas Pass Staging Facility	106,076	Earthen fill
Fill for Emergency Access Road (Earthen)	163	Earthen fill
Fill for Emergency Access Road (Aggregate)	735	Limestone aggregate
Fill for Emergency Access Road (Rip-Rap)	17	Rock rip-rap
Excavation for Emergency Access Road	102	Water bottom (tidal)
Excavation at Harbor Island Loading Terminal (Uplands)	2,802,849	Uplands
Excavation at Harbor Island Loading Terminal (Water Bottoms)	2,785,450	Water bottom (tidal)
Excavation/Fill at Mitigation Site		
Fill for Breakwater	40,275	Rock rip-rap
Fill for Levee	5,588,299	Earthen fill

Surface Area in Acres of Wetlands or Other Waters Filled

Resource Type	Affected Acres	Impact Type
Wetlands (Freshwater)	13.08	Temporary
Wetlands (Estuarine/Tidal)	0.45	Temporary
Waterbodies	0.27	Temporary
Aransas Pass Staging Facility to Harbor Island Loading Terminal Pipeline Installation		
Resource Type	Affected Acres	Impact Type
Black Mangrove	0.41	Temporary
Seagrass Beds	2.30	Permanent
Seagrass Beds	5.46	Temporary
Tidal Flats	10.56	Temporary
Water Bottoms (O&G canal)	21.96	Temporary
Water Bottoms (Redfish Bay)	23.84	Temporary
Wetlands (Estuarine Marsh)	0.11	Temporary
Aransas Pass Staging Facility/Emergency Access Road		
Resource Type	Affected Acres	Impact Type
Wetlands (Freshwater)	15.92	Permanent
Wetlands (Estuarine/Tidal)	0.75	Permanent
Water Bottom (Tidal)	0.03	Temporary
Mitigation Site		
Resource Type	Affected Acres	Impact Type
Tidal Flats (Levee)	170	Permanent
Water Bottoms (Breakwater)	8.3	Permanent

NOTES FOR TERRESTRIAL CROSS SECTIONS:

- 1.) PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES THE APPLICANT OR THEIR CONTRACTOR SHALL NOTIFY TEXAS811.
- 2.) SPOIL WILL BE TEMPORARILY STOCKPILED ADJACENT TO THE PIPELINE TRENCH AND USED AS BACKFILL UPON COMPLETION.

NOTES ON MARINE CROSS SECTIONS:

- 1.) PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES THE APPLICANT OR THEIR CONTRACTOR SHALL NOTIFY TEXAS811.
- 2.) SPOIL WILL BE TEMPORARILY STOCKPILED ADJACENT TO THE PIPELINE TRENCH AND USED AS BACKFILL UPON COMPLETION.
- 3.) PILE SUPPORTED SIGNS WILL BE DEPLOYED ADJACENT TO THE TEMPORARY SPOIL AREAS TO NOTIFY MARINERS OF THE POTENTIAL SUBMERGED HAZARD

IMPACT TABLES & NOTES

PLs & Fac: Midway T.F. to Harbor Island



AXIS MIDSTREAM HOLDINGS, LLC

Proposed Pipelines & Facilities
MIDWAY TO HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS

Prepared BY: Project Consulting Services, Inc.

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PREPARED BY: LRW
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APPROVED BY:
PROJECT NO.: 19012
REISSUE DATE: 3/25/19

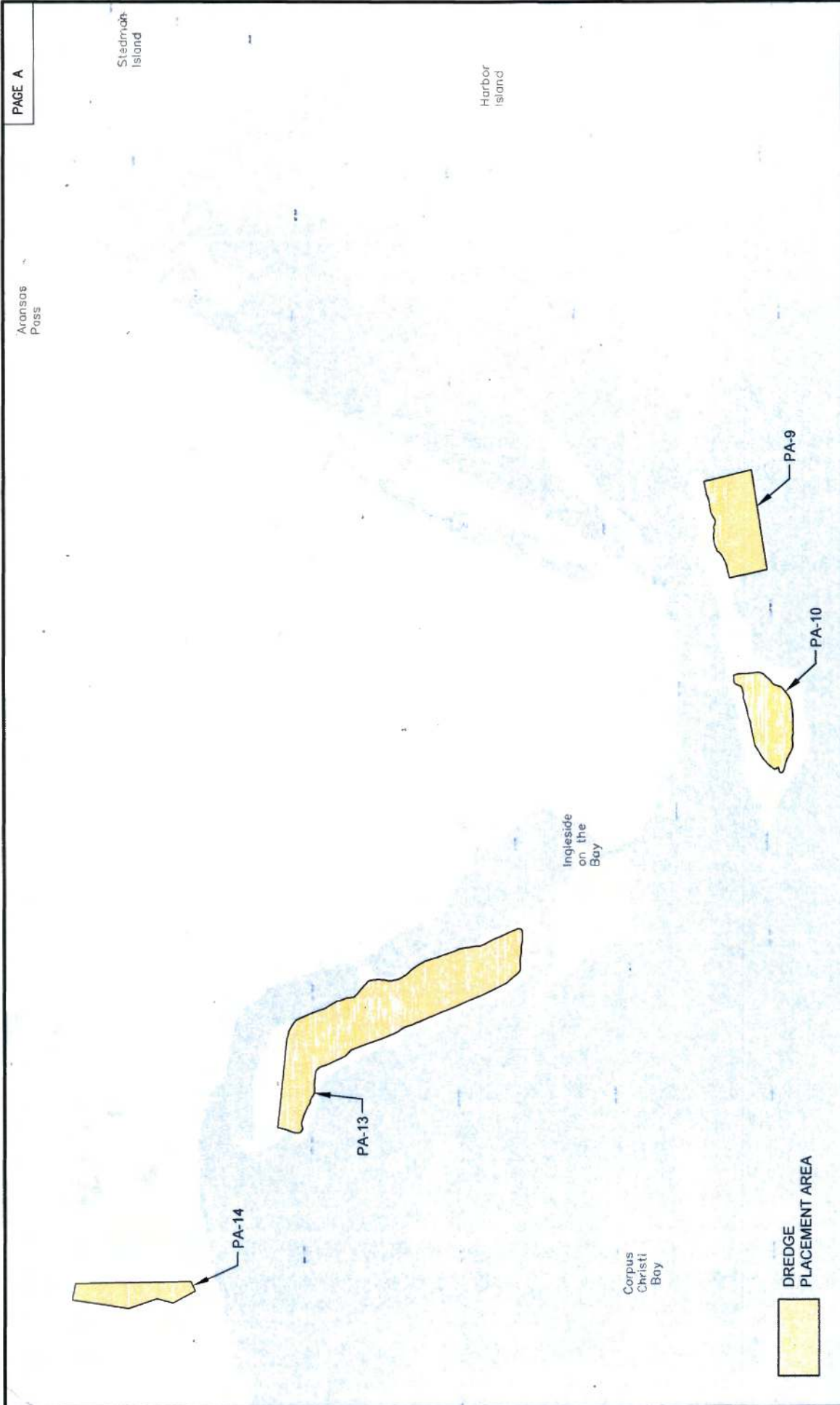
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AXIS MIDSTREAM

NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

Date: 12/27/2018
Revised: 3/3/2019, 5/3/2019



PROPOSED ALTERNATE DREDGE PLACEMENT AREAS

Date: 5/3/2019

NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/ REGULATORY AUTHORIZATIONS ONLY.

AXIS MIDSTREAM HOLDINGS, LLC
 Proposed Pipelines & Facilities
 MIDWAY to HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS
 Prepared BY: Project Consulting Services, Inc.



AXIS MIDSTREAM

PROJECT CONSULTING SERVICES, INC.

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PREPARED BY: KMA
CHECKED BY:
APPROVED BY:
PROJECT NO.: 19012
REVISION DATE: 5/3/19

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AXIS MIDSTREAM
MIDWAY TO HARBOR ISLAND PIPELINES & TERMINAL
 Alternative Analysis – Executive Summary

Revision: 0
Date: 05/02/2019
PCS JN: 19012

1. Midway Tank Farm

The Midway Tank Farm site was selected due to the proximity to the existing crude supply sources, available property, accessibility and avoidance of sensitive ecological and cultural resource. Commercial efforts have yielded commitments from four (4) major pipeline suppliers exceeding 500,000 barrels/day. Storage requirements of 4 million barrels at Midway will be necessary to provide a sustainable crude supply for the loading facility.

2. Midway to Aransas Pass Staging Facility Pipelines

Several routes were evaluated for constructability, impacts to ecological and cultural resources and effects to administratively sensitive features. Two (2) routes were further examined, both are situated primarily within agricultural areas, occur within a wind farm area, pass within residential areas (Ingleside and Aransas Pass) and are collocated for most of the alignment. The Preferred Alternative is shorter, impacts less residential areas, has fewer roadway, railway and drainage feature crossings. Potential adverse impacts to wetlands, caused by the selection of the preferred alternative are minor and temporary.

3. Aransas Pass Staging Facility

The Aransas Pass Facility site was selected based on availability, accessibility, adjacent industrial uses and proximity to the Harbor Island. Consideration was given to the pipeline construction during the selection phase for this site. Offsite locations reviewed were eliminated due to availability and wetland impacts. The property is held by a single landowner and is positioned within uplands as verified by the USACE or areas previously permitted (1522-15 (Gulf Intracoastal Waterway)/11867).

4. Aransas Pass Staging Facility to Harbor Island Pipelines

Many routes were evaluated for constructability and impacts to sensitive features. Four (4) alternatives were more thoroughly examined based on practicality. Alternative 1 represents the longest route and the only land alternative examined. The route was determined as not practical due to restrictive work space through the City of Aransas Pass. The three (3) remaining Alternatives all involve HDD under the GIWW from Aransas Pass into an existing oilfield canal, thence marine construction to install the lines through Redfish Bay to the Harbor Island. All three Alternatives will temporarily impact water bottoms, with minimal wetland impacts. Alternative 2 represents the shortest, most direct route, but would impact the greatest acreage of seagrasses and was eliminated. Alternative 3 would require an \pm 8,000-ft. HDD in order to avoid impacts to aquatic resources; however, \pm 4,500-ft is the technical limit for a 42' pipeline, and as a result this Alternative was eliminated. Alternative 3 is slightly longer than Alternative 2 and involves the use of oil and gas canals nearer to Harbor Island. As previously discussed, this alignment also involves an HDD that exceeds the technological limits and was eliminated. The Preferred Alternative employs conventional trenching technology for pipeline installation, except for crossing the GIWW. Impacts associated with trenching are expected to be temporary and the area will be restored to pre-project contours to the maximum extent practicable. The Preferred Alternative represents the least environmentally damaging, technically feasible alternative.

5. Harbor Island Terminal

The Harbor Island Terminal site was selected based on availability, accessibility and location to existing infrastructure capable of accommodating crude carrier vessel movement. The selected site is situated adjacent to the Corpus Christi Ship Channel. The land portion of the Harbor Island site is non-wetland. The Site and surrounding areas support, or have supported, marine operations in the past.



SUPPLEMENTAL INFORMATION
Form Approved – OMB 0710-0003

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

Excavation/Fill for Pipeline Installation		
Action	Volume (yd³)	Material Type
Terrestrial excavation/fill in freshwater wetlands	68,112	Native freshwater marsh
Terrestrial excavation/fill in waterbodies	4,585	Freshwater ponds/drainages
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Excavation for Emergency Access Road	102	Water bottom (tidal)
Excavation at Harbor Island Loading Terminal (Uplands)	2,802,849	Uplands
Excavation at Harbor Island Loading Terminal (Water Bottoms)	2,785,450	Water bottom (tidal)
Excavation/Fill at Mitigation Site		
Fill for Breakwater	40,275	Rock rip-rap
Fill for Levee/rip-rap	5,588,299	Earthen fill

22. Surface Area in Acres of Wetlands or Other Waters Filled

Midway Tank Farm to Aransas Pass Staging Facility Pipeline Installation		
Resource Type	Affected Acres	Impact Type
Wetlands (Freshwater)	13.08	Temporary
Wetlands (Estuarine/Tidal)	0.45	Temporary
Waterbodies	0.27	Temporary
Aransas Pass Staging Facility to Harbor Island Loading Terminal Pipeline Installation		
Resource Type	Affected Acres	Impact Type
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Wetlands (Estuarine Marsh)	0.11	Temporary
Aransas Pass Staging Facility Facility/Emergency Access Road		
Resource Type	Affected Acres	Impact Type
Wetlands (Freshwater)	15.92	Permanent
Wetlands (Estuarine/Tidal)	0.75	Permanent
Water Bottom (Tidal)	0.03	Temporary
Mitigation Site		
Resource Type	Affected Acres	Impact Type
Tidal Flats (Levee/rip-rap)	170	Permanent
Water Bottoms (Breakwater)	8.3	Permanent

Jones, Robert N CIV USARMY CESWG (USA)

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Monday, May 13, 2019 8:33 PM
To: 'Ganczak, Robert'
Subject: Axis PJD Table Needs Revision.pdf
Attachments: PJD Table Needs Revision.pdf

Bob, can you revise the coordinates on the PJD Table:

- 1) DD/mm/ss to Decimal Degrees
- 2) UTM Columns: Typically, a UTM Northing is 6 digits and an Easting is 7 digits. There is an extra digit on each number. Please review that and double check to make sure my eyesight is not headed south lol. Ifs its incorrect, revise that as well to reflect UTM Zone 14R NAD83

Jones, Robert N CIV USARMY CESWG (USA)

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Monday, May 13, 2019 8:35 PM
To: 'Ganczak, Robert'
Subject: FW: Axis PJD Table Needs Revision.pdf
Attachments: PJD Table Needs Revision.pdf

You know what, I bet those UTM coordinates are in US feet. I need them in meters if that is the issue.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Monday, May 13, 2019 8:33 PM
To: 'Ganczak, Robert' <rganczak@projectconsulting.com>
Subject: Axis PJD Table Needs Revision.pdf

Bob, can you revise the coordinates on the PJD Table:

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Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Monday, May 13, 2019 2:22 PM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: RE: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); Revised Permit Drawings & additional information

Thanks Bobby.

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Monday, May 13, 2019 2:20 PM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); Revised Permit Drawings & additional information

Yes sir, I am almost there I promise.

FYI, I started my detail in Galveston today. This week is my week to get as much done as possible before Friday COB. This is on that list. Ms. Kristie Brink will assume lead PM next week and please be aware things, even as slow as they are now, are going to slow down a lot more and know we are doing all we can to make sure we are as on top of things as we possibly can be.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Ganczak, Robert [mailto:rganczak@projectconsulting.com]
Sent: Monday, May 13, 2019 1:34 PM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); Revised Permit Drawings & additional information

Mr. Jones:

Just a quick follow up on the status of your completeness review and internal coordination. The supplemental information was submitted by electronic mail 5/6/2019 , followed by hardcopy received by your office 5/7/2019. Please update me at your earliest convenience. Thanks!

Bob

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Wednesday, May 15, 2019 8:04 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
Cc: Leonhard, Richard
Subject: [Non-DoD Source] RE: Axis PJD Table Needs Revision.pdf
Attachments: Axis - SWG 2018-00789, PJD Table (r1) 5.14.19.pdf

Robert:

Pursuant your e-mail request, attached please find the updated PJD table for the Axis - Midway to Harbor Island Project (SWG-2018-00789). Please let me know if you have any questions. Thanks!

Bob

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Monday, May 13, 2019 8:33 PM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Subject: Axis PJD Table Needs Revision.pdf

Bob, can you revise the coordinates on the PJD Table:

- 1) DD/mm/ss to Decimal Degrees
- 2) UTM Columns: Typically, a UTM Northing is 6 digits and an Easting is 7 digits. There is an extra digit on each number. Please review that and double check to make sure my eyesight is not headed south lol. Ifs its incorrect, revise that as well to reflect UTM Zone 14R NAD83

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Thursday, May 23, 2019 5:48 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: RE: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); Revised Permit Drawings & additional information

Thanks for the update and all your effort. Enjoy your vacation!

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Wednesday, May 22, 2019 11:54 PM
To: Ganczak, Robert <rganczak@projectconsulting.com>; Brink, Kristie A CIV USARMY CESWG (USA) <Kristie.A.Brink@usace.army.mil>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); Revised Permit Drawings & additional information

Bob, I'm sorry for not getting back to you. Know I've started drafting the notices and other documents for the initial start of the review; unfortunately I was not able to finish and now I'm will out on vacation. I apologize for not complying just as you know things are hectic. Because of my huge energy investment in this project I fought to keep this under my review while I'm out on detail. Even if it was reassigned it likely wasn't gonna get done any sooner. Hope you all understand but we should be on track the first week of June when I return to pick back up. Again, i apologize and i appreciate you and axis being patient with me. Thank you.

Bobby.

Sent with BlackBerry Work
(Blockedwww.blackberry.com <Blockedhttp://www.blackberry.com>)

From: Ganczak, Robert <rganczak@projectconsulting.com <mailto:rganczak@projectconsulting.com> >

Date: Monday, May 20, 2019, 09:13

To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil <mailto:Robert.N.Jones2@usace.army.mil> >, Brink, Kristie A CIV USARMY CESWG (USA) <Kristie.A.Brink@usace.army.mil <mailto:Kristie.A.Brink@usace.army.mil> >

Cc: Leonhard, Richard <rleonhard@projectconsulting.com <mailto:rleonhard@projectconsulting.com> >

Subject: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); Revised Permit Drawings & additional information

Mr. Jones or Ms. Brink:

Just a quick follow up on the status of your completeness review and internal coordination. Please update me at your earliest convenience. Thanks!

Bob

Robert Ganczak

Senior Environmental Specialist

Project Consulting Services, Inc.

1800 West Loop South | Suite 900 | Houston, Texas 77027

Main: 713.952.7380 | Direct: 713.407.2480 | Mobile: 281.381.7563 | Fax: 713.952.7082

rganczak@projectconsulting.com <mailto:rganczak@projectconsulting.com> |

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Jones, Robert N CIV USARMY CESWG (USA)

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Tuesday, June 4, 2019 2:12 PM
To: Ganczak, Robert
Cc: Leonhard, Richard; Thomas, Charles; David O'Dell
Subject: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789);
Revised Permit Drawings & additional information

Yall are up now. Working/finsihing what I started before I had to leave mid May. I plan on by the end of the week to have this out for IR and prepped for PN for hopefully Monday-Tuesday depending on when Arch gets back to me. I sincerely apologize, I know yall have been patient and I want you to know that I sincerely appreciate how this has come together and your dilligence with working with me. This will not get easier as you know but know I will be here every step of the way and if anything shall arise I will let ya know and will work with you to resolve it. Again, I apologize but know how thankful and excited I am about getting this started finally. The next update will be when it goes out on notices.

Bobby Jones, Regulatory Project Manager
USACE – Galveston District
Corpus Christi Regulatory Field Office
5151 Flynn Parkway, Suite 306
Corpus Christi, Texas 78411-4318
Desk: 361-814-5847x1010
Mobile: 361-558-3766

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Wednesday, June 5, 2019 3:40 PM
To: Jones, Robert N CIV USARMY CESWG (USA)
Cc: Leonhard, Richard; Thomas, Charles
Subject: [Non-DoD Source] Axis Midstream Holdings, LLC - Midway to Harbor Island Project (SWG-2018-00789); conceptual mitigation
Attachments: HARBOR ISLAND SHORELINE AND SEAGRASS IMPACTS.pdf; Tidal_Wetland_Restoration_06052019.pdf

Mr. Jones:

Attached please find two details illustrating the conceptual mitigation impacts for the Harbor Island shoreline and Aransas Pass Tidal Restoration areas.

Harbor Island Shoreline:

To determine the direct effects of the conceptual mitigation levee the 2009 and 2017 shorelines (front and back) were digitized, then the polygons overlaid on the 2017 aerial photograph. There was an obvious change in the shoreline location between those aerial images. The footage retreat between 2009 and 2017 ranged from \pm 160 to 525-ft. The back shore retreat (directly impacting seagrass habitat) is less dramatic due to the presence of mangrove thickets. There are areas where the tidal sand flats have obviously encroached into the seagrass habitat as much as 675-ft. The result of this change has been the loss of seagrass habitat in those areas.

Construction of the conceptual mitigation levee will result in the direct restoration of approximately 76 acres of shoreline. This restored shoreline will prohibit further backshore retreat into the seagrass habitat. The result will be the protection/enhancement of approximately 36 acres of seagrass habitat. This area should be able to recover to a combination seagrass, mangrove emergent marsh habitat.

Direct benefits: Restoration of \pm 76 acres of shoreline

Indirect benefits: Protection and recovery of approximately 36 acres of seagrass/mangrove/marsh

Aransas Pass Tidal Restoration:

This conceptual proposal involves degradation of an existing spoil area levee and removal of a non-functional culvert. The levee material will be deposited into the existing borrow areas restoring the area to near pre-project elevations. Levee degradation will result in the restoration of approximately 2 acres of tidal wetlands. Removal of the levees will allow tidal exchange (hydrologic restoration) to an additional 8 acres of tidal marsh.

Direct benefits: Restoration of ± 2 acres of tidal wetlands

Indirect benefits: Hydrologic restoration for 8 acres of tidal marsh habitat

Should you have any questions please do not hesitate to contact me. Thanks!

Bob

Robert Ganczak

Senior Environmental Specialist

Project Consulting Services, Inc.

1800 West Loop South | Suite 900 | Houston, Texas 77027

Main: 713.952.7380 | Direct: 713.407.2480 | Mobile: 281.381.7563 | Fax: 713.952.7082

rganczak@projectconsulting.com <mailto:rganczak@projectconsulting.com> | Blockedwww.projectconsulting.com
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BLACK LINES MEASURE LENGTH OF SHORELINE AND SEAGRASS CHANGE

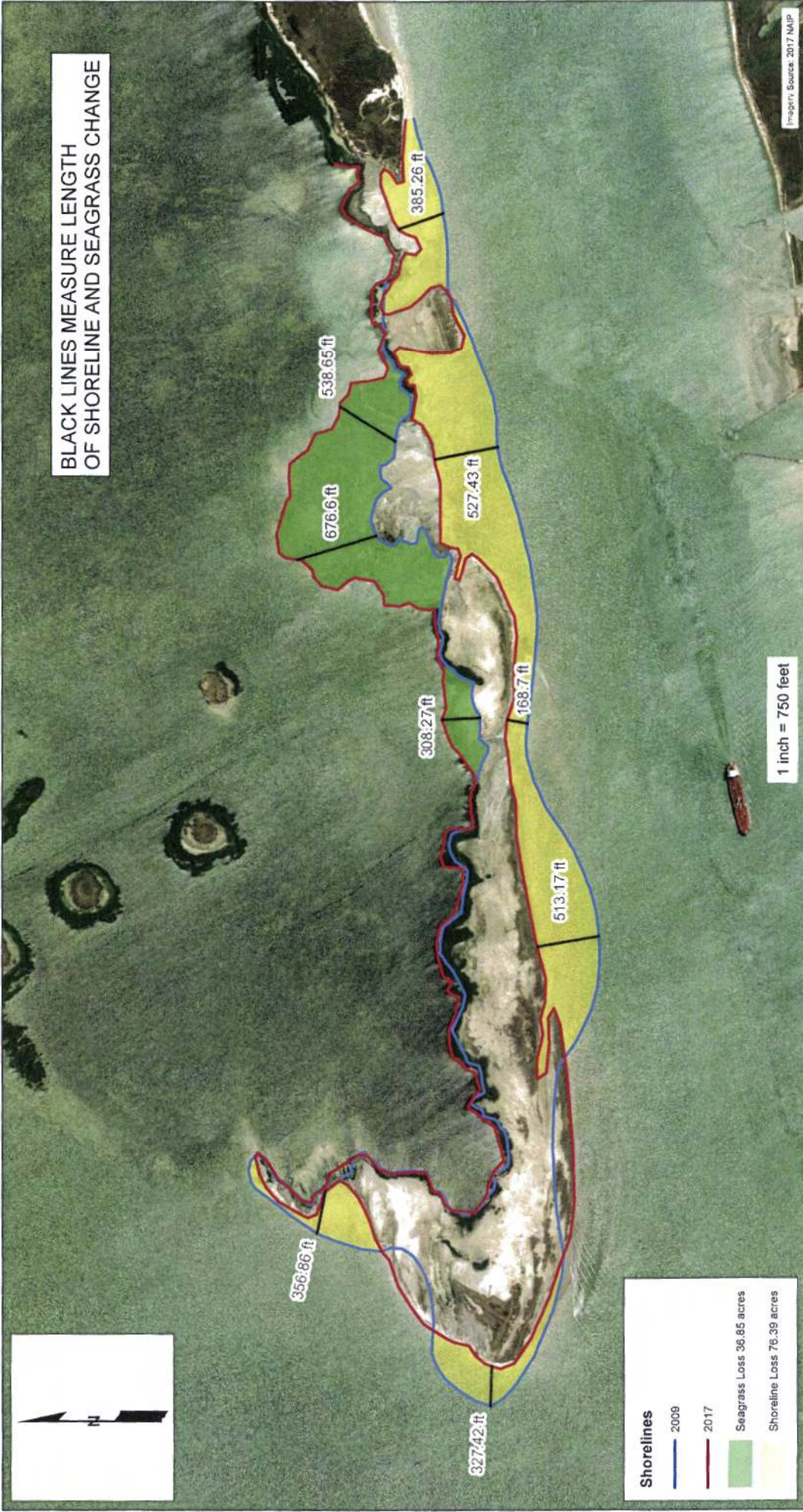


Image Source: 2017 NAIP

1 inch = 750 feet



Shorelines
 2009
 2017
 Seagrass Loss 38.85 acres
 Shoreline Loss 76.39 acres

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AXIS MIDSTREAM

Prepared By: AMPS
 Checked By: [Name]
 Approved By: [Name]
 Project No.: 18012

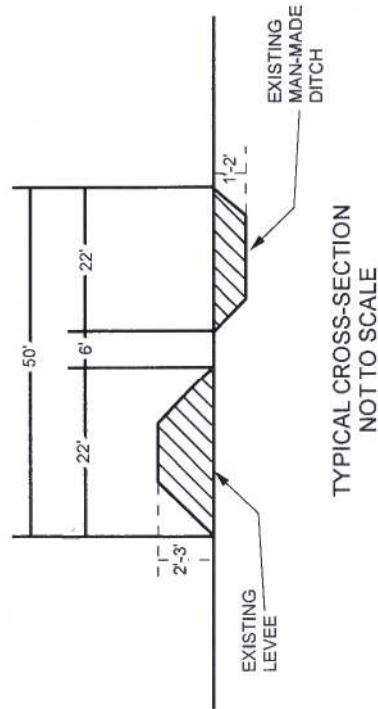
SEAGRASS AND SHORELINE LOSS AT HARBOR ISLAND

AXIS MIDSTREAM HOLDINGS, LLC.
 Proposed Pipelines & Facilities
 MIDWAY TO HARBOR ISLAND PROJECT
 NUECES COUNTY, TEXAS
 Prepared By: Project Consulting Services, Inc.

- Area Restored (2.0 Acres)
- Positive Affected Area (8.7 Acres)



EXCAVATION VOLUME: 2,431 CU. YDS.
 AREA RESTORED: 2.0 AC.
 POSITIVE AFFECTED AREA: 8.7 AC.



NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

Date: 6/5/19

ARANSAS PASS FACILITY TIDAL WETLAND RESTORATION



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 MANDEVILLE, LA • SAN ANTONIO, TX •
 CHICAGO, IL • NORTH HAMPTON, NH

Prepared By: MJE
 Checked By: RG
 Approved By: RL
 Project No.: 19012
 Reissue Date: 6/5/19



AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC
 Proposed Pipelines & Facilities
 MIDWAY to HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS

Jones, Robert N CIV USARMY CESWG (USA)

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Tuesday, June 11, 2019 1:27 PM
To: Ganczak, Robert
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)
Attachments: AR Spreadsheet Jones Version.xlsx

Bob:

So I was QA/QC-ing the data, cross checking the impact table and the project plans and the PJD table along with what shapefiles I had on the ARs. A lot of the data did not match up. Lat/Longs for some ARs were in other ARs lat/long blocks on the PJD table according to the shapefiles and project plans. Just about each WB and PEMWET AR identified on the PJD table was different on the project plans and/or the shapefiles. I will continue to work on this writing the PN and everything but I need to you check this again. I think you can see how I was doing this table. The only two crossing I verified were WB01 and WB02. I saw a pattern developing with my checking though. It is a very simple breakdown of each location and impact. Please, review, QA/QC, and complete this table and then email this table it back to me as soon as you can sir. I told Richard worse case scenario Next Thursday PN. I want to be by no later than Tuesday. Thank you sir.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Ganczak, Robert [mailto:rganczak@projectconsulting.com]
Sent: Friday, June 7, 2019 1:03 PM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Subject: [Non-DoD Source] RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

I understand. Thanks!

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Friday, June 07, 2019 11:46 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bob:

It wasn't but a few minutes when I got off the phone when "other brush fires" arose which became priorities over everything. I did get further along on them but I haven't reviewed what you sent to me just yet. I will and should have another update early next week sir.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Thursday, June 13, 2019 3:49 PM
To: Jones, Robert N CIV USARMY CESWG (USA)
Cc: Leonhard, Richard; Thomas, Charles
Subject: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); updated shapefiles, PJD & Impact Table revisions and updated permit drawing sheets
Attachments: 19012_Axis Shaefiles_06132019.zip; Copy of 18-00789 Axis Wetland Data 6.12.19.xlsx; Axis Midstream Impact Breakdown, 6.12.2019 (r3).xlsx; 19012_ENV-PER-12 of 39.pdf; 19012_ENV-PER-13 of 39.pdf; 19012_ENV-PER-16 of 39.pdf

Mr. Jones:

Pursuant our recent electronic mail and telephone correspondence, attached please find the updated PJD and Impact Tables for the subject permit application. I have also included the most updated shapefiles for the project showing workspaces and facilities as well as wetland and waterbody polygons. There were a few errors detected in the drawings as a result of the updates. The errors have been corrected and the revised pages are attached.

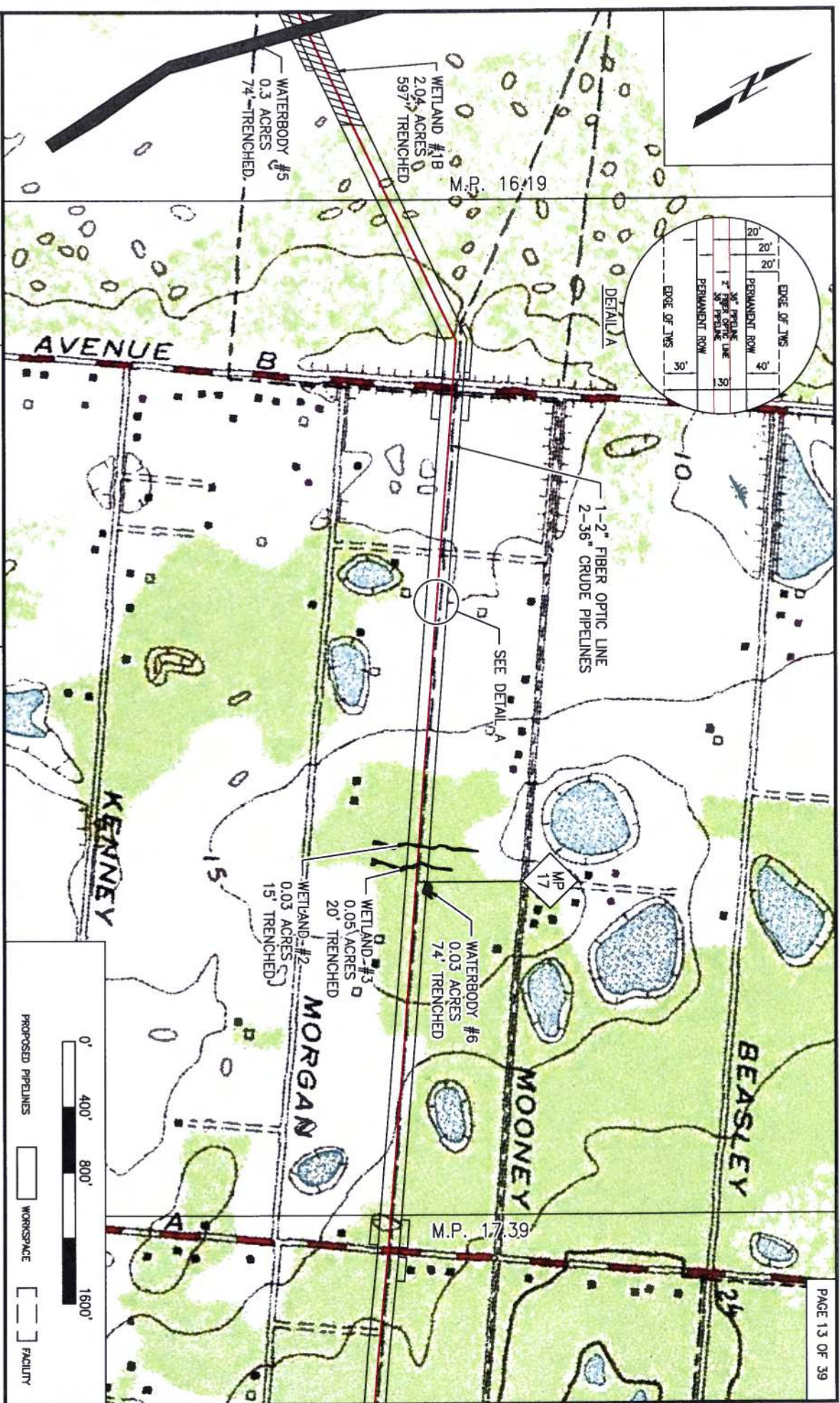
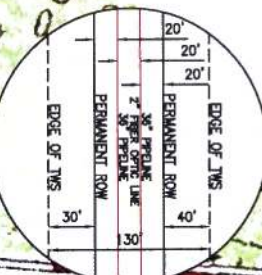
Should you have any questions please do not hesitate to contact me. Thanks for all your efforts.

Bob

Robert Ganczak

Senior Environmental Specialist
Project Consulting Services, Inc.
1800 West Loop South | Suite 900 | Houston, Texas 77027
Main: 713.952.7380 | Direct: 713.407.2480 | Mobile: 281.381.7563 | Fax: 713.952.7082

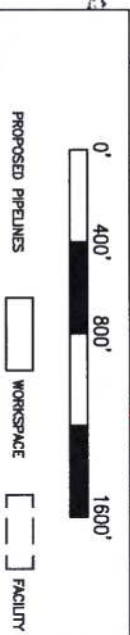
rganczak@projectconsulting.com <mailto:rganczak@projectconsulting.com> | Blockedwww.projectconsulting.com
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Date: 12/27/2018
 Revised: 3/3/2019, 6/13/2019

PLAN VIEW
 Pls: Midway T.F. to Aransas



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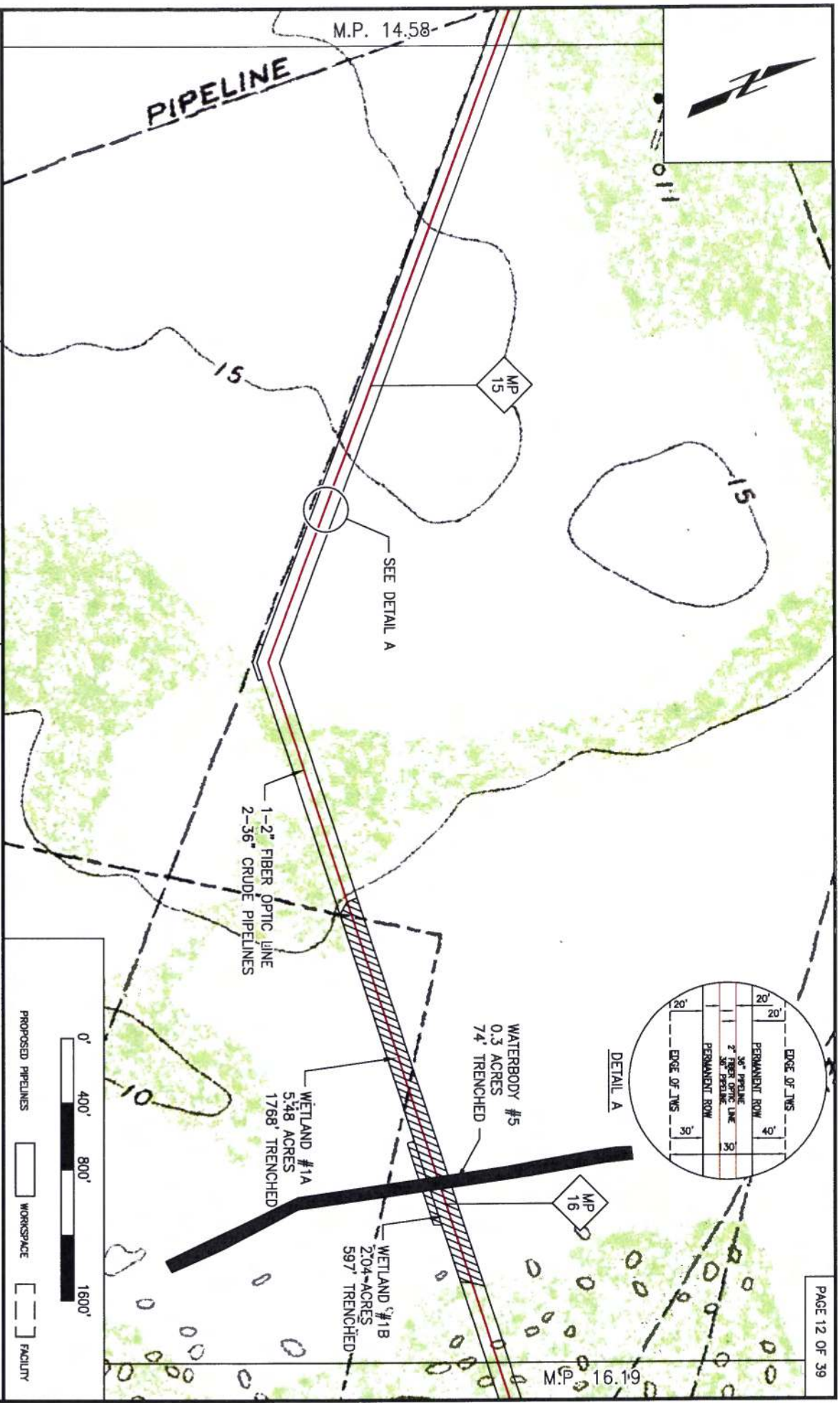
PREPARED BY: LMW
 CHECKED BY:
 APPROVED BY:
 PROJECT NO.: 19012
 REVISION DATE: 3/25/19



AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC

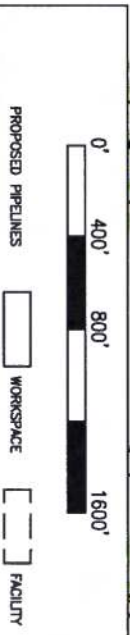
Proposed Pipelines & Facilities
 MIDWAY TO HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS
 Prepared By: Project Consulting Services, Inc.



NOTE: THE CONTENT OF THIS DRAWING IS DESIGNED SPECIFICALLY FOR THE PURPOSE OF SECURING FEDERAL, STATE AND LOCAL ENVIRONMENTAL/REGULATORY AUTHORIZATIONS ONLY.

Date: 12/27/2018
 Revised: 3/3/2019, 6/13/2019

PLAN VIEW
 Pls: Midway T.F. to Aransas



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PREPARED BY:	LMW
CHECKED BY:	
APPROVED BY:	
PROJECT NO.:	19012
ISSUE DATE:	3/25/19



AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC

Proposed Pipelines & Facilities
 MIDWAY to HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS
 Prepared By: Project Consulting Services, Inc.

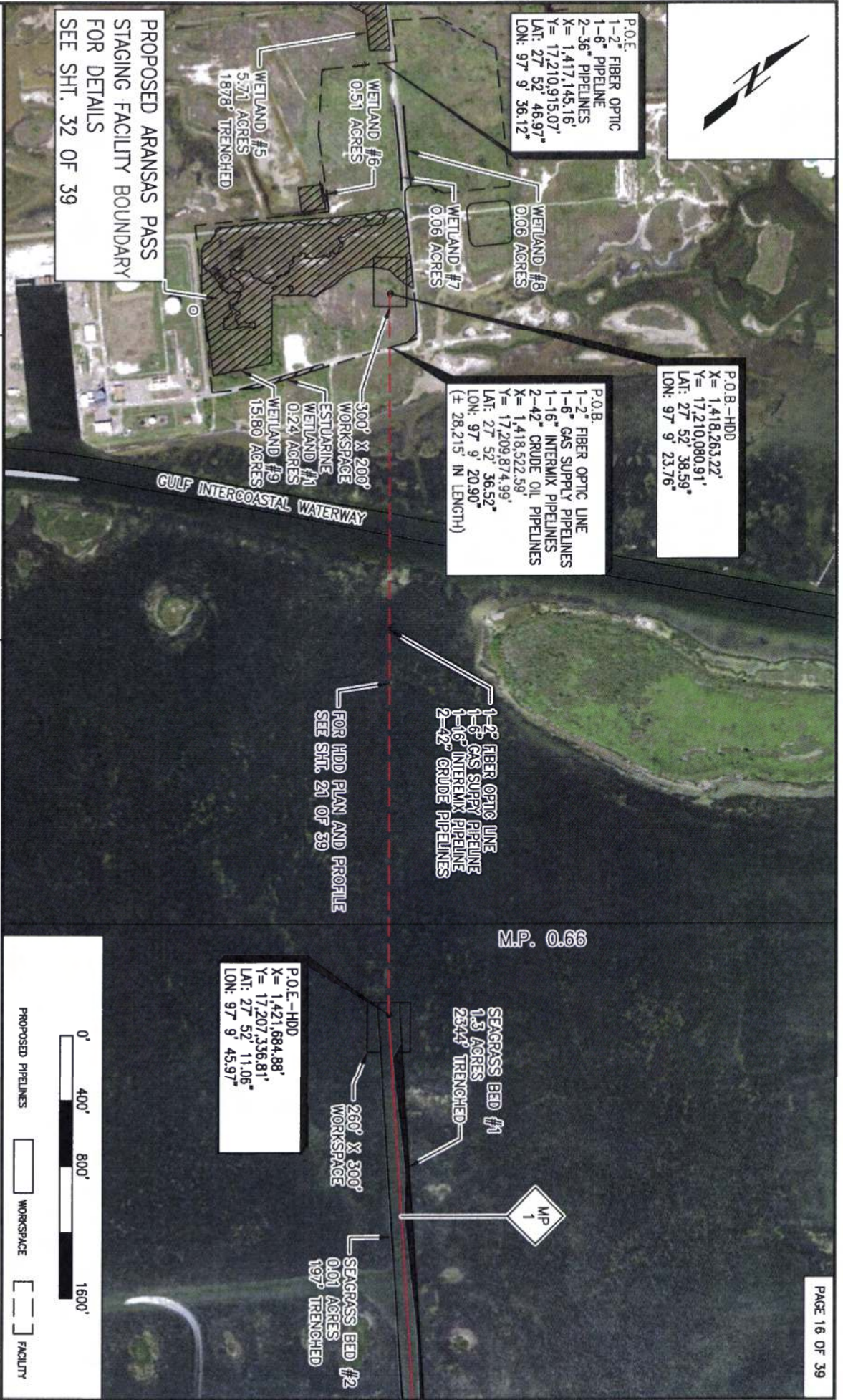


P.O.E.
 1-2" FIBER OPTIC
 1-6" PIPELINE
 2-36" PIPELINES
 X = 1,417,145.16"
 Y = 17,210,915.07"
 LAT: 27° 52' 46.97"
 LON: 97° 9' 36.12"

P.O.B.-HDD
 X = 1,418,263.22"
 Y = 17,210,080.91"
 LAT: 27° 52' 38.59"
 LON: 97° 9' 23.76"

P.O.B.
 1-2" FIBER OPTIC LINE
 1-6" GAS SUPPLY PIPELINES
 1-16" INTERMIX PIPELINES
 2-42" CRUDE OIL PIPELINES
 X = 1,418,522.59"
 Y = 17,209,874.99"
 LAT: 27° 52' 36.52"
 LON: 97° 9' 20.90"
 (± 28.215' IN LENGTH)

PROPOSED ARANSAS PASS
 STAGING FACILITY BOUNDARY
 FOR DETAILS
 SEE SHT. 32 OF 39



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Date: 12/27/2018
 Revised: 3/3/2019, 6/13/2019

PLAN VIEW
 PLS: Aransas To Harbor Island



PROPOSED PIPELINES [] WORKSPACE [] FACILITY []



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PREPARED BY: LMW
 CHECKED BY:
 APPROVED BY:
 PROJECT NO.: 19012
 REVISION DATE: 3/25/19



AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC

Proposed Pipelines & Facilities
 MIDWAY to HARBOR ISLAND PROJECT
 SAN PATRICIO & NUECES COUNTIES, TEXAS
 Prepared By: Project Consulting Services, Inc.

Axis Midstream Holdings, LLC (SWG 2018-00789) - Impact Breakdown Table

AR Name	Purpose of Impact	Fill					Dredge				
		Permanent		Temporary		Linear Feet	Permanent		Temporary		
		Acres	Cubic Yards	Acres	Cubic Yards		Acres	Cubic Yards	Acres	Cubic Yards	
Waterbody #1	Midway-Aransas Pipelines (bored)	0	0	0	0	0	0	0	0	0	0
Waterbody #2	Midway-Aransas Pipelines (trenched)	0	0	0.1	423	28	0	0	0.1	423	0
Waterbody #3	Midway-Aransas Pipelines (bored)	0	0	0	0	13	0	0	0	0	0
Waterbody #4	Midway-Aransas Pipelines (bored)	0	0	0	0	32	0	0	0	0	0
Waterbody #1A	Midway-Aransas Pipelines (trenched)	0	0	5.48	26,716	1,768	0	0	5.48	26,716	0
Waterbody #5	Midway-Aransas Pipelines (trenched)	0	0	0.3	1,118	74	0	0	0.3	1,118	0
Waterbody #1B	Midway-Aransas Pipelines (trenched)	0	0	2.04	9,217	597	0	0	2.04	9,217	0
Waterbody #2	Midway-Aransas Pipelines (trenched)	0	0	0.03	226	15	0	0	0.03	226	0
Waterbody #3	Midway-Aransas Pipelines (trenched)	0	0	0.05	302	20	0	0	0.05	302	0
Waterbody #6	Midway-Aransas Pipelines (trenched)	0	0	0.03	1,118	74	0	0	0.03	1,118	0
Waterbody #7	Midway-Aransas Pipelines (trenched)	0	0	0.14	1,813	120	0	0	0.14	1,813	0
Waterbody #4	Midway-Aransas Pipelines (trenched)	0	0	0.06	3,551	235	0	0	0.06	3,551	0
Waterbody #5	Midway-Aransas Pipelines (trenched)	0	0	5.71	28,100	1,878	0	0	5.71	28,100	0
Waterbody #6	Aransas Pass Staging Facility (filled)	0.51	4,114	0	0	180	0	0	0	0	0
Waterbody #7	Aransas Pass Staging Facility (filled)	0.06	192	0	0	650	0	0	0	0	0
Waterbody #8	Aransas Pass Staging Facility (filled)	0.06	192	0	0	650	0	0	0	0	0
Waterbody #9	Aransas Pass Staging Facility (filled)	15.8	100,032	0	0	1,235	0	0	0	0	0
Estuarine Wetlands #1	Aransas Pass Staging Facility (filled)	0.24	1,546	0	0	522	0	0	0	0	0
Seagrass Bed #1	Aransas-Harbor Island Pipelines (trenched)	0	0	1.3	35,420	2,344	0	0	0	0	0
Seagrass Bed #2	Aransas-Harbor Island Pipelines (trenched)	0	0	0.01	2,976	197	0	0	0	0	0
Seagrass Bed #3	Aransas-Harbor Island Pipelines (trenched)	0	0	0.08	17,347	1,148	0	0	0	0	0
Seagrass Bed #4	Aransas-Harbor Island Pipelines (trenched)	0	0	0.09	6,392	423	0	0	0	0	0
Seagrass Bed #5	Aransas-Harbor Island Pipelines (trenched)	0	0	0.35	12,512	828	0	0	0	0	0
Seagrass Bed #6	Aransas-Harbor Island Pipelines (trenched)	0	0	0	0	755	0	0	0	0	0
Seagrass Bed #7	Aransas-Harbor Island Pipelines (trenched)	0	0	3.68	35,360	2,340	0	0	3.68	35,360	0
Smooth Cord Grass #1	Aransas-Harbor Island Pipelines (trenched)	0	0	0.001	302	20	0	0	0.001	302	0
Tidal Flat #1	Aransas-Harbor Island Pipelines (trenched)	0	0	5.65	30,222	2,000	0	0	5.65	30,222	0
Smooth Cord Grass #2	Aransas-Harbor Island Pipelines (trenched)	0	0	0.001	120	8	0	0	0.001	120	0
Black Mangrove #1	Aransas-Harbor Island Pipelines (trenched)	0	0	0.03	1,375	91	0	0	0.03	1,375	0
Black Mangrove #2	Aransas-Harbor Island Pipelines (trenched)	0	0	0.34	3,173	210	0	0	0.34	3,173	0
Tidal Flat #2	Aransas-Harbor Island Pipelines (trenched)	0	0	0.1	1,722	114	0	0	0.1	1,722	0
Black Mangrove #3	Aransas-Harbor Island Pipelines (trenched)	0	0	0.04	453	30	0	0	0.04	453	0
Tidal Flat #3	Aransas-Harbor Island Pipelines (trenched)	0	0	4.9	25,688	1,700	0	0	4.9	25,688	0
Estuarine Wetlands #2	Aransas-Harbor Island Pipelines (trenched)	0	0	0.11	513	34	0	0	0.11	513	0
Estuarine Wetlands #3	Aransas Facility Emergency Road (filled)	0.09	540	0	0	208	0	0	0	0	0
Waterbody #8	Aransas Facility Emergency Road (filled)	0.03	163	0	0	35	0	0	0	0	0
Estuarine Wetlands #4	Aransas Facility Emergency Road (filled)	0.01	195	0	0	20	0	0	0	0	0
Waterbody - Dock	Harbor Island Loading Terminal (dredged)	0	0	0	0	0	0	0	0	0	0

Preliminary Jurisdictional Determination Affected Resource Data Table

AR Water Name	Latitude	Longitude	UTM Northing	UTM Easting	Acres	Cowardin Class	Class of AR
18-00789 Waterbody #1	27.916267	-97.376451	659766	3088986	0.23	R5UB	404
18-00789 Waterbody #2	27.916316	-97.356593	661721	3089018	0.1	R5UB	404
18-00789 Waterbody #3	27.932788	-97.343417	662993	3090861	0.04	R5UBFx	404
18-00789 Waterbody #4	27.944692	-97.329632	664335	3092206	0.1	R2UBHx	404
18-00789 Wetland #1a	27.896890	-97.207379	676481	3087072	5.48	PEM1A	404
18-00789 Waterbody #5	27.896778	-97.205665	676609	3087053	0.3	R4SBCx	404
18-00789 Wetlands #1b	27.896711	-97.204360	676607	3087040	2.04	PEM1A	404
18-00789 Wetlands #2	27.891790	-97.191163	678044	3086531	0.03	PEM1A	404
18-00789 Wetlands #3	27.891615	-97.190848	678074	3086511	0.05	PEM1A	404
18-00789 Waterbody #6	27.891537	-97.190392	678123	3086507	0.03	R4SBCx	404
18-00789 Waterbody #7	27.882505	-97.175206	679632	3085534	0.14	PUBHx	404
18-00789 Wetlands #4	27.877999	-97.166106	680532	3085036	0.06	PEM1A	404
18-00789 Wetlands #5	27.879593	-97.162764	680909	3085239	5.71	PEM1J	404
18-00789 Wetlands #6	27.877338	-97.159430	681195	3084974	0.51	E2EM1P	10/404
18-00789 Wetlands #7	27.879031	-97.158614	681271	3085164	0.06	R5UB	10/404
18-00789 Wetlands #8	27.879130	-97.158512	681276	3085177	0.06	R5UB	10/404
18-00789 Wetlands #9	27.876646	-97.158194	681318	3084901	15.8	PEM1A	10/404
18-00789 Estuarine Wetlands #1	27.875171	-97.156616	681471	3084734	0.24	E2EM1P	10/404
18-00789 Estuarine Wetlands A_HDD	27.876360	-97.155160	681614	3084874	0.12	E2EM1P	10/404
18-00789 Sea Grass Bed A_HDD	27.875748	-97.154365	681694	3084807	0.73	E1AB3L	10/404
18-00789 GIWW_HDD	27.874939	-97.153267	681802	3084719	0.58	E1UBLx	10

18-00789 Sea Grass Bed B_HDD	27.871868	-97.149059	682223	3084386	3.75	E1AB3L	10/404
18-00789 Sea Grass Bed #1	27.868071	-97.143216	682836	3083948	1.3	E1AB3L	10
18-00789 Sea Grass Bed #2	27.867386	-97.142743	682860	3083892	0.01	E1UBLx	10
18-00789 Sea Grass Bed #3	27.865378	-97.139582	683167	3083678	0.08	E1UBLx	10
18-00789 Sea Grass Bed #4	27.864579	-97.137697	683357	3083591	0.09	E1AB3L	10
18-00789 Sea Grass Bed #5	27.863445	-97.136502	683483	3083464	0.35	E1UBLx	10
18-00789 Sea Grass Bed #6	27.852799	-97.119525	685163	3082314	2.3	E1AB3L	10
18-00789 Sea Grass Bed #7	27.842286	-97.112464	685946	3081060	3.68	E1UBLx E1AB3L	10
18-00789 Smooth Cord Grass #1	27.840493	-97.110282	686232	3080981	0.001	E2EM1P	10
18-00789 Tidal Flat #1	27.840854	-97.107553	686410	3081006	5.65	E2USP	10
18-00789 Smooth Cord Grass #2	27.841031	-97.105559	686557	3081035	0.01	E2EM1N	10
18-00789 Black Mangrove #1	27.840842	-97.105368	686579	3081012	0.03	E2EM1N	10
18-00789 Tidal Flats #2	27.840917	-97.104683	686641	3081023	0.1	E2USP	10
18-00789 Black Mangrove #2	27.840927	-97.104399	686629	3081025	0.34	E2EM1N	10
18-00789 Black Mangrove #3	27.841294	-97.101983	686906	3081073	0.04	E2EM1N	10
18-00789 Tidal Flats #3	27.841481	-97.100257	686906	3081042	4.9	E2USP	10
18-00789 Estuarine Wetland #2	27.841442	-97.099068	687204	3081096	0.11	E2EM1N	10
18-00789 Waterbody (dock area)	27.843548	-97.081242	688949	3081350	70	E1UBL	10
18-00789 Estuarine Wetland #3	27.872150	-97.162515	680902	3084401	0.09	N/A	10/404
18-00789 Waterbody #8	27.871884	-97.162655	680886	3084364	0.03	E2USN	10/404
18-00789 Estuarine Wetland #4	27.871825	-97.162704	680874	3084357	0.01	N/A	10/404

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Tuesday, June 18, 2019 10:51 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: RE: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); updates

Thanks for the update. Hang in there.

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Tuesday, June 18, 2019 10:08 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); updates

I did get the packet but I have been unable to review it and proof it. I apologize but our PN schedule has been pushed. Not sure but I'm balancing my TDY and PM duties while in Montana. Issues I'm having is using a VPN network from a remote location as you know. But I have the files on my desktop which allows me to work offline. There are trade offs to that as well. It may be pushed to next week. I need to proof the data first before I move forward. I apologize but time is limited while TDY but I'm doing what I can and more. Thank you for your patience.

Sent with BlackBerry Work
(Blockedwww.blackberry.com <Blockedhttp://www.blackberry.com>)

From: Ganczak, Robert <rganczak@projectconsulting.com <mailto:rganczak@projectconsulting.com> >

Date: Monday, Jun 17, 2019, 13:08

To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil <mailto:Robert.N.Jones2@usace.army.mil> >

Cc: Leonhard, Richard <rleonhard@projectconsulting.com <mailto:rleonhard@projectconsulting.com> >

Subject: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); updates

Mr. Jones:

Jones, Robert N CIV USARMY CESWG (USA)

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Tuesday, June 25, 2019 9:01 AM
To: Leonhard, Richard
Cc: Ganczak, Robert
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); updates

Richard, I apologize for not getting back with you but it has been hit the ground running. Yesterday was field work, today has been meetings, and tomorrow is more scheduled field work. Thursday and Friday seem to be more open and I hope to get the data proofed by then but no promises.

I still need to proof the information Bob sent me before I left. I understand you need this done but before I put this out I need to make sure all the info is correct which is why I had Bob correct the data a few weeks ago. I just need to find time to work back around to it and I will. Again, I apologize, but trust I am doing all I can.

Please, I am not being rude or anything, just being honest and letting you know exactly what my week is like. I will touch base later this week if I feel we need to readdress any items in the application.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Leonhard, Richard [mailto:rleonhard@projectconsulting.com]
Sent: Monday, June 24, 2019 10:11 AM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Subject: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789); updates
Importance: High

Bobby,

This is a follow-up from my voice mail this morning. And welcome back...I think to the Gulf Coast Summer climate.

I appreciate that you are just returning from training morning and that you have much to catchup on after being out of the office. However, can you provide a quick status of the Axis Project, more specifically is everything in order? If not, how can we assist? Secondly, when do you expect to publish the notice?

Sincerely, Richard

Jones, Robert N CIV USARMY CESWG (USA)

From: David O'Dell <dodell@axismidstream.com>
Sent: Tuesday, July 9, 2019 12:35 PM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: [Non-DoD Source] SWG-2018-00789 - Axis Midstream

Hello Bobby. Wanted to follow up with you on our permitting efforts. We get regular updates from PCS and Richie Leonhard but I want to personally contact you to let you know that we appreciate your attention to our project. I know you have been swamped with all of the new duties. Hope you get to raise your head above water soon.

I did want to check with you on any clarity you might give me on the expected timing of our going to public notice. We have some other efforts pending and Board of Director interest. If you can help me with an estimated completion time for your review, I can carry that forward.

Also, along those lines, is there anything we can do for you to help "clear the decks" for you to get through the process? Don't want to create trouble for you by contacting people who might take this as any indication that you haven't been diligent in your handling of the project. Just want to know how we can support you in any way possible.

Thank you for everything. Look forward to hearing from you as we go forward.

David O'Dell

Axis Midstream

Direct (210) 394-7820

Office (713) 623-2412

dodell@axismidstream.com

5005 Riverway, Suite 110

Jones, Robert N CIV USARMY CESWG (USA)

From: Jones, Robert N CIV USARMY CESWG (USA)
Sent: Thursday, July 11, 2019 1:49 PM
To: Leonhard, Richard
Cc: Ganczak, Robert; David O'Dell
Subject: RE: SWG-2018-00789: Axis - PLs & Facilities

I plan on conducting another review of the application tomorrow. I will touch base with you on Monday to let you know if we need anything else.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Leonhard, Richard [mailto:rleonhard@projectconsulting.com]
Sent: Tuesday, July 9, 2019 10:13 AM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Subject: [Non-DoD Source] SWG-2018-00789: Axis - PLs & Facilities

Bobby,

I just left a voice message, again I appreciate your current workload and responsibilities. However, we have reached a critical time frame; your assistance and guidance in putting the project on notice is requested.

Can you provide a status and/or suggestion in moving forward?

Sincerely, Richard

Richard G. Leonhard

Environmental Manager
Project Consulting Services, Inc.

3300 W. Esplanade Ave. South | Suite 500 | Metairie, LA 70002

rleonhard@projectconsulting.com <mailto:rleonhard@projectconsulting.com> ; Blockedwww.projectconsulting.com
<Blockedhttp://www.projectconsulting.com>

Jones, Robert N CIV USARMY CESWG (USA)

From: Ganczak, Robert <rganczak@projectconsulting.com>
Sent: Monday, July 29, 2019 7:06 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
Subject: [Non-DoD Source] RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Thanks for the update. I appreciate your help.

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Monday, July 29, 2019 6:40 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

IR has been initiated. Once I hear back from Jerry I can complete the PN and have it sent out this week. Likely Tuesday or Thursday since those are the only two days we post PN.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Ganczak, Robert [mailto:rganczak@projectconsulting.com]
Sent: Friday, July 26, 2019 11:58 AM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: [Non-DoD Source] RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bobby:

Thanks for your response. I will cancel the JEM. I would like to schedule the 8/8/2019 afternoon meeting with you and Dwayne. I believe that meeting will be much more productive. I will call your cell as requested this afternoon.

Bob

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Friday, July 26, 2019 11:03 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bob:

Thanks Bob. That's fine, I know I didn't do what I said, and know I am doing all I can. Right now, it's just the way things are. I wish I could get into more detail, but honestly this is getting to be a skipping record with me. Truth is it's the

reality right now. We have staffing challenges, project management challenges throughout our district. I wish I could tell you better news. I can say I went through the additional info and everything is there I believe. I completely understand that your patience is wearing thin. I do and I completely emphasize with that. All I can do I apologize but I know it is not enough.

I will see you on the 6th when it gets scheduled. Honestly, think it would be a waste of time and a meeting with me and Dwayne might serve you better. I will be out Aug 1-5, returning 6th, and likely not have much time to focus on a JEM that day, but a meeting maybe Thursday afternoon the 8th might be appropriate. By then we will have a better idea on a path forward.

TBH: I think I have time to finish this afternoon but I need to focus on this one thing so I can move on from it. Bob, call my cell phone @ 1500 today.

Bobby Jones, CCRFO, Reg PM
Desk: 361-814-5847x1010
Mobile: 361-558-3766

-----Original Message-----

From: Ganczak, Robert [mailto:rganczak@projectconsulting.com]
Sent: Friday, July 26, 2019 9:37 AM
To: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: [Non-DoD Source] Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bobby:

Just a heads up. I am currently scheduling a JEM slot for Tuesday August 6th at 11:00 AM to discuss the path forward with the subject Axis project. As you are know, there are issues we will need to address during the permit process including the 408 approval, mitigation, etc. PCS and Axis would like to facilitate a smooth process, as much as can be expected. Please let me know if there is any supplemental information you would like us to bring. As always, thanks for your help.

Bob

Robert Ganczak

Senior Environmental Specialist
Project Consulting Services, Inc.
1800 West Loop South | Suite 900 | Houston, Texas 77027
Main: 713.952.7380 | Direct: 713.407.2480 | Mobile: 281.381.7563 | Fax: 713.952.7082

rganczak@projectconsulting.com <mailto:rganczak@projectconsulting.com> |
BlockedBlockedBlockedwww.projectconsulting.com <BlockedBlockedBlockedhttp://www.projectconsulting.com/>

Jones, Robert N CIV USARMY CESWG (USA)

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Sent: Monday, July 29, 2019 7:06 AM
To: Jones, Robert N CIV USARMY CESWG (USA)
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Bobby Jones, CCRFO, Reg PM
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Mobile: 361-558-3766

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Bob

-----Original Message-----

From: Jones, Robert N CIV USARMY CESWG (USA) <Robert.N.Jones2@usace.army.mil>
Sent: Friday, July 26, 2019 11:03 AM
To: Ganczak, Robert <rganczak@projectconsulting.com>
Cc: Leonhard, Richard <rleonhard@projectconsulting.com>
Subject: RE: Axis Midstream Holdings, Inc. - Midway to Harbor Island Project (SWG-2018-00789)

Bob:

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Jones, Robert N CIV USARMY CESWG (USA)

From: Trant, Angela G CIV USARMY CESWG (USA)
Sent: Monday, July 29, 2019 8:29 AM
To: Androy, Jerry L CIV USARMY CESWG (US); Botello, Janet T CIV USARMY CESWG (USA); Bowles, Richard L CIV USARMY CESWG (US); Brown, Harmon III CIV USARMY CESWF (US); Brown, Karl B CIV USARMY CESWG (USA); Brown, Rhonda G CIV USARMY CESWG (USA); Bunker, Kurt M CIV USARMY CESWG (USA); Burks-Copes, Kelly A CIV USARMY CESWG (US); Carelock, Donald W CIV USARMY CESWG (US); CATANZARO, Andrea K CIV USARMY CESWG (USA); Craft, Franchelle E CIV USARMY CESWG (US); Croft, Bradley D CIV USARMY CESWG (USA); Darko-Kagya, Kenneth K CIV USARMY CESWG (USA); Davidson, John P II CIV USARMY CESWG (USA); Davis, Andria E CIV USARMY CESWG (US); Edwards, Aron S CIV USARMY CESWG (USA); Gonzalez, Michael D CIV USARMY CESWG (US); HEINLY, Robert W CIV USARMY CESWG (USA); Hernandez, Pablo CIV USARMY CESWG (USA); Irigoyen, Eduardo CIV (USA); Jaynes, Kenneth E CIV USARMY CESWG (US); Johnson, Darrell W CIV USARMY CESWG (US); Laskowski, Nicholas A (Nick) CIV USARMY CESWG (USA); Maglio, Coraggio K CIV USARMY CESWG (USA); Mairs, Lisa Mccracken CIV USARMY CESWG (USA); Marik, Marshall A CIV USARMY CESWG (USA); Martin, Susan E CIV USARMY CESWG (USA); Meyer, Alton H III CIV USARMY CESWG (US); Misir, Shakhar D CIV USARMY CESWG (US); Moore, Randy E CIV CESWG CESWD (US); Morgan, Jennifer B CIV USARMY CESWF (US); Patchimrat, Thomas S CIV USARMY CESWG (USA); Ramos, Adrian A CIV USARMY CESWG (USA); Rea, Alicia D CIV USARMY CESWG (USA); CESWG-RE-INT-REV; Reyes, Gerson D CIV USARMY CESWG (US); Sells, Michael M CIV USARMY CESWG (USA); Smith, Andrew N CIV USARMY CESWG (US); Smolinsky, Brandon L CIV USARMY CESWG (USA); Steiner, Ralph E CIV USARMY CESWG (USA); Thomas, Lori K CIV USARMY CESWG (USA); Tirpak, Sharon M CIV USARMY CESWG (USA); Villagomez, Enrique Jr CIV USARMY CESWG (US); Weber, Andrew R CIV USARMY CESWG (USA); Wheeler, Charles R II CIV USARMY CESWG (USA); Willey, Sheridan S (Sheri) CIV USARMY CESWG (US); Williams, Byron D CIV USARMY CESWG (USA)
Cc: Jones, Robert N CIV USARMY CESWG (USA)
Subject: REGULATORY Internal Review Request - S: 2 August 2019 - GIWW, REDFISH BAY, CORPUS CHRISTI SHIP CHANNEL, San Patricio and Nueces Counties, Texas - SWG-2018-00789
Attachments: SWG-2018-00789 IR Axis Midstream.docx; SWG-2018-00789 IR Plans.pdf
Classification: UNCLASSIFIED

REGULATORY INTERNAL REVIEW REQUEST

PLEASE RESPOND BY 2 AUGUST 2019

LOCATION: The proposed project would start at the proposed Midway Tank Farm Facility (Midway) located near the intersection of Farm to Market (FM) 893 and County Road (CR) 2004, 5 miles south of Taft, San Patricio County, Texas. From there, the proposed pipelines would head in a northeast direction crossing State Highway (SH) 181, where they would take a dogleg southeast towards Aransas Pass, San Patricio County, Texas, where they would terminate at the proposed Redfish Tank Farm Facility (Redfish) off FM 2725. From there, the proposed pipelines would cross the Gulf Intracoastal Water Way (GIWW) and Redfish Bay where they would terminate at the proposed Harbor Island Terminal

Facility (Harbor) in Port Aransas, Nueces County, Texas. The project can be located on the U.S.G.S. quadrangle maps titled: Taft, Gregory, Aransas Pass, Ingleside-On-the-Bay, and Port Aransas, Texas.

LATITUDE & LONGITUDE (NAD 83):

Midway Facility: Latitude: 27.90524 N; Longitude: 97.40482 W

Aransas Pass Staging Facility: Latitude: 27.876527 N; Longitude: 97.158305 W

GIWW-HDD Temp Workspace: Latitude 27.877696 N; Longitude: 97.156855 W

Harbor Island Loading Terminal: Latitude: 27.844767 N; Longitude: 97.083002 W

PROJECT DESCRIPTION: The applicant (Axis Midstream Holdings, LLC) proposes to construct a series of facilities and pipelines to store, transport, and load crude oil into marine transport vessels. The project consists of three facilities interconnected by several pipelines and utilities.

The proposed project components are the proposed Midway Tank Farm (Midway Facility) south of the City of Taft, Texas which will be connected to the Aransas Pass Staging Facility (Aransas Facility), west of the City of Aransas Pass, by a pipeline bundle (1 – 2-inch fiber optic, 1 – 6-inch gas supply (last mile) and 2 – 36-inch crude oil pipelines). From the Aransas Facility the project continues easterly with a bundle of pipelines (1 – 2-inch fiber optic, 1 – 6-inch gas supply, 1 – 16-inch intermix return and 2 – 42-inch crude oil pipelines) across the GIWW and Redfish Bay first by horizontal directional drilling (HDD), then by open-cut trenching. The pipeline bundle terminates at the proposed Harbor Island Loading Terminal (Harbor Facility) located on the west side of the CCSC in Port Aransas.

The applicant's plans are enclosed in 42 sheets.

Please address any comments or requests for additional information to the Project Manager, Robert Jones, at 361-814-5847 x1010 or by email.

Thank you.