

**PROJECT VICINITY**

**PRELIMINARY**

SHEET 1 OF 16

SCALE: 1" = 4 Miles

4 Miles 2 Miles 0 4 Miles

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REV	DATE	DESCRIPTION OF REVISION	ES NO.	BY	APP
4	7/10/18	ADDITIONAL WORKSPACE AND ACCESS AT POE		AZB	ADM
3	05/03/18	REVISED PLAT PER CLIENTS REQUEST		RRB	ADM
2	04/19/18	REVISED 22" PROPOSED PIPELINE		RRB	ADM

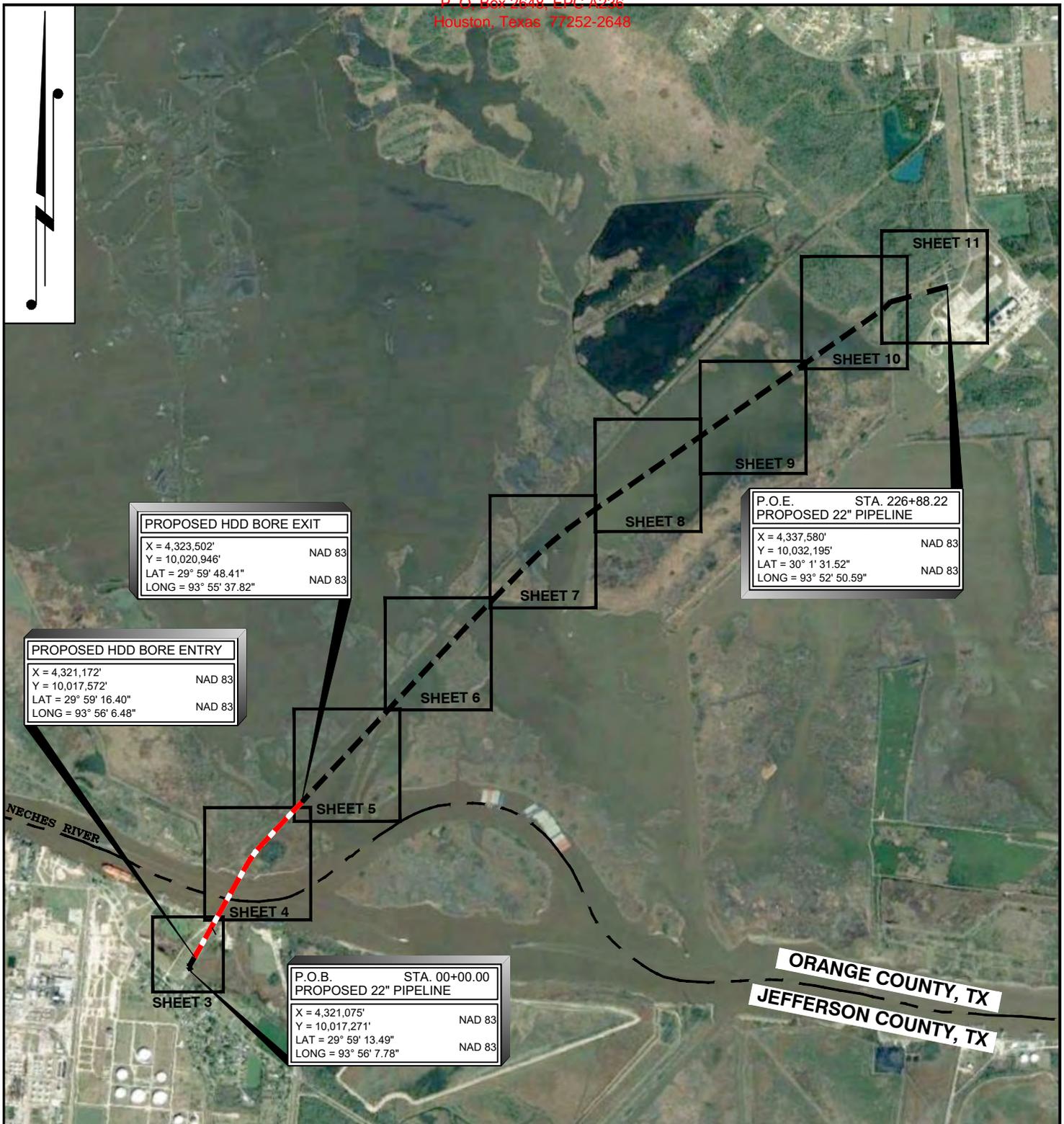
**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

**PROPOSED PIPELINE REPLACEMENT  
FOR THE BESSIE HEIGHTS PIPELINE  
JEFFERSON & ORANGE COUNTY, TEXAS**

DATE:	03/01/2018	<b>SPLC-GOM-</b>	REV.	0
BY:	TBS-2017.1061			

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**PRELIMINARY**

SHEET 2 OF 16

SCALE: 1" = 3000'

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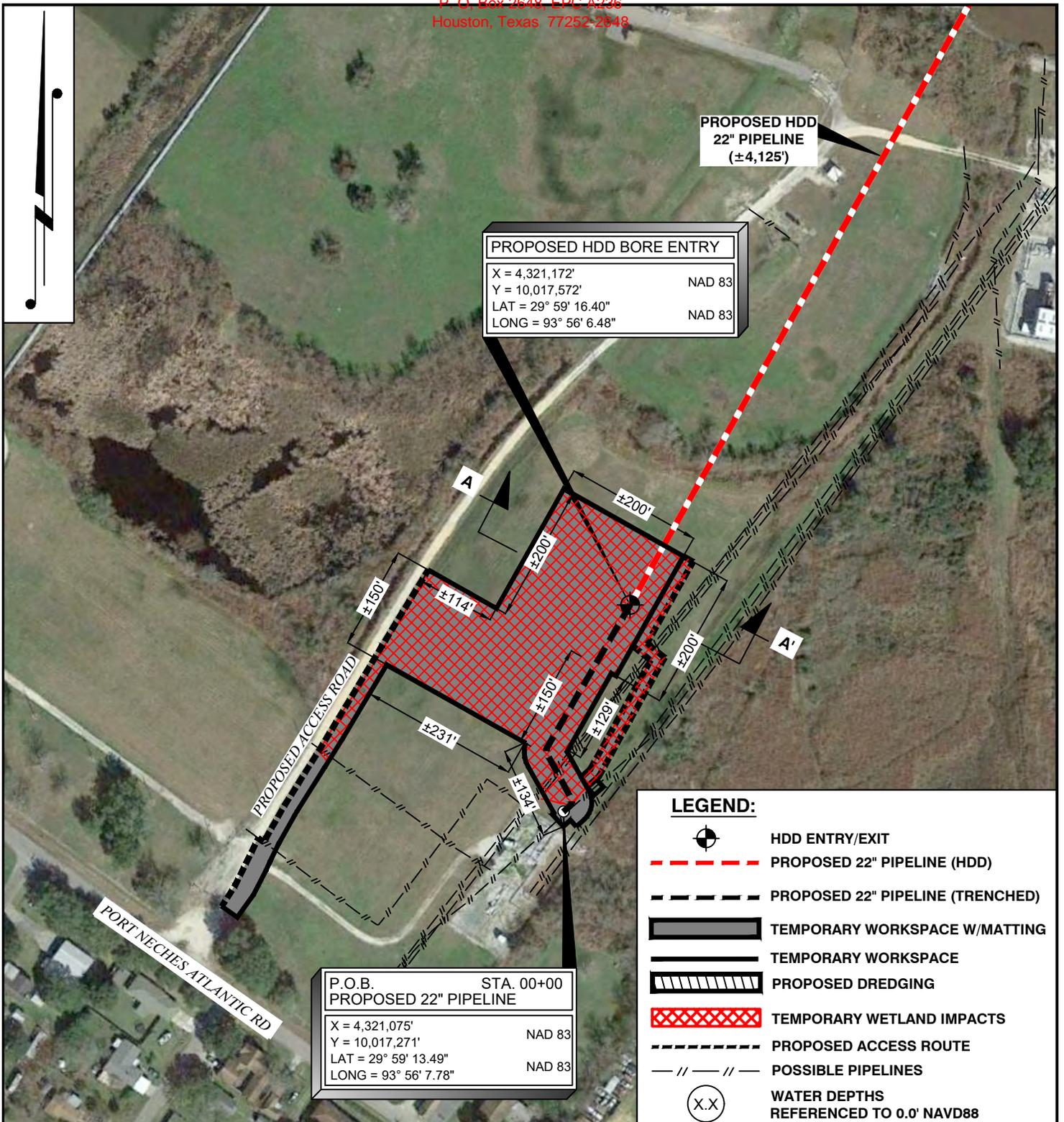
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**BESSIE HEIGHTS LINE REPLACEMENT  
 PIPELINE PROTECTION PROJECT**

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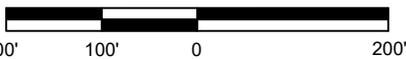


**LEGEND:**

- HDD ENTRY/EXIT
- PROPOSED 22" PIPELINE (HDD)
- PROPOSED 22" PIPELINE (TRENCHED)
- TEMPORARY WORKSPACE W/MATTING
- TEMPORARY WORKSPACE
- PROPOSED DREDGING
- TEMPORARY WETLAND IMPACTS
- PROPOSED ACCESS ROUTE
- POSSIBLE PIPELINES
- WATER DEPTHS REFERENCED TO 0.0' NAVD88

**PRELIMINARY**

SCALE: 1" = 200'



SHEET 3 OF 16

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**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

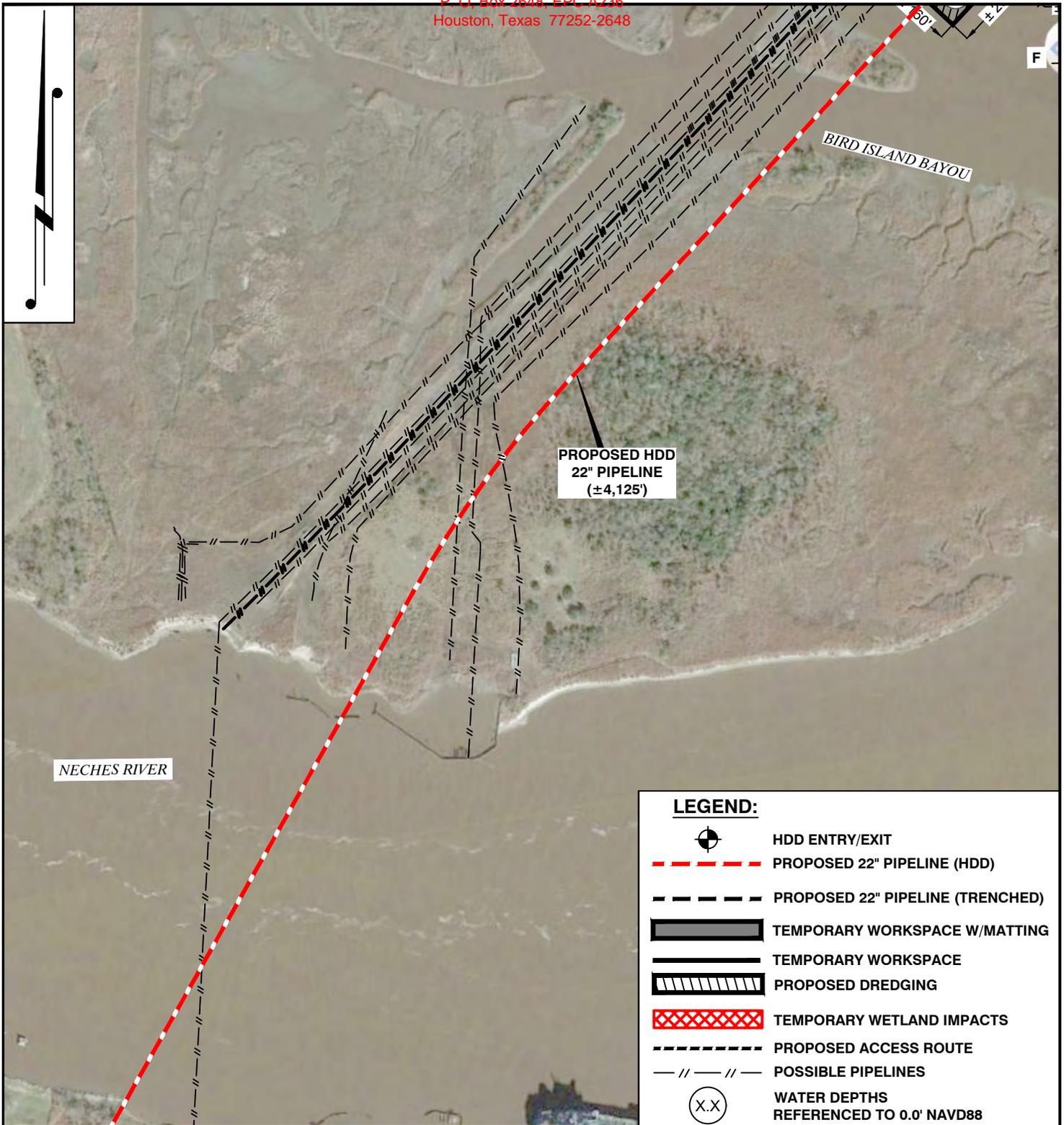
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 FOR THE BESSIE HEIGHTS PIPELINE  
 JEFFERSON & ORANGE COUNTY, TEXAS**

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**LEGEND:**

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- PROPOSED 22" PIPELINE (TRENCHED)
- TEMPORARY WORKSPACE W/MATTING
- TEMPORARY WORKSPACE
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- PROPOSED ACCESS ROUTE
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**PRELIMINARY**

SHEET 4 OF 16

SCALE: 1" = 300'



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**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

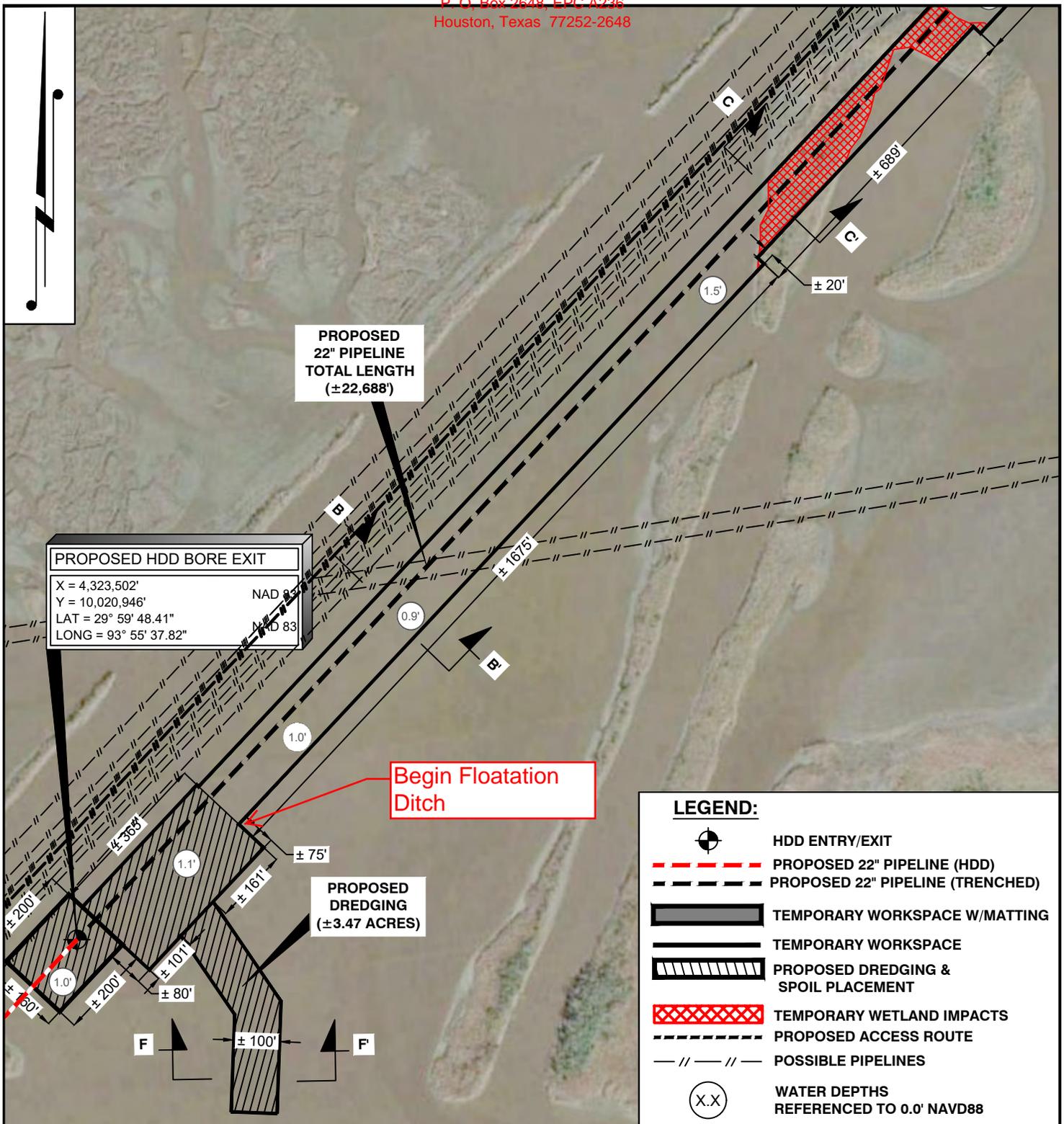
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**PRELIMINARY**

SHEET 5 OF 16

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**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

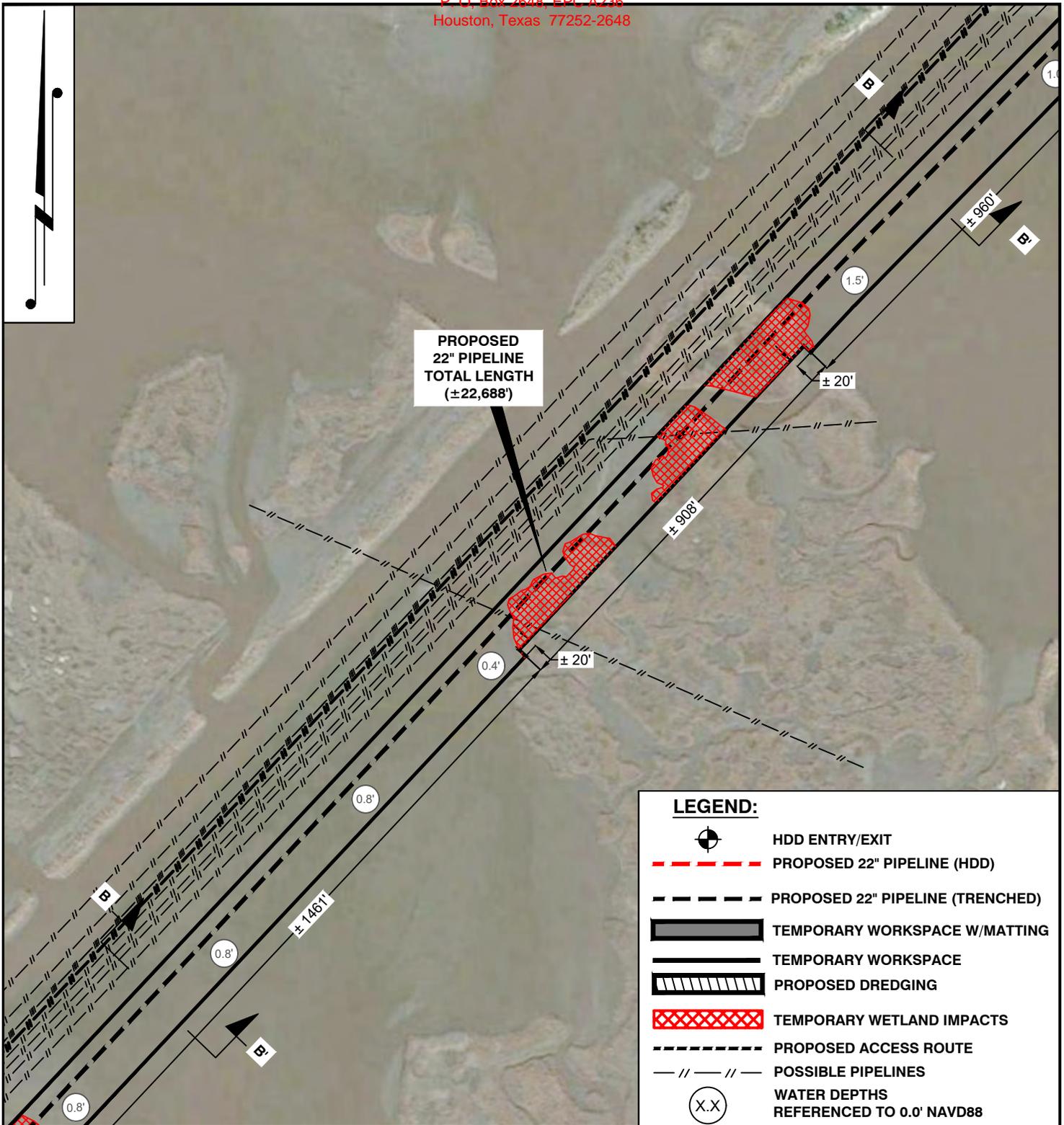
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**PRELIMINARY**

SHEET 6 OF 16

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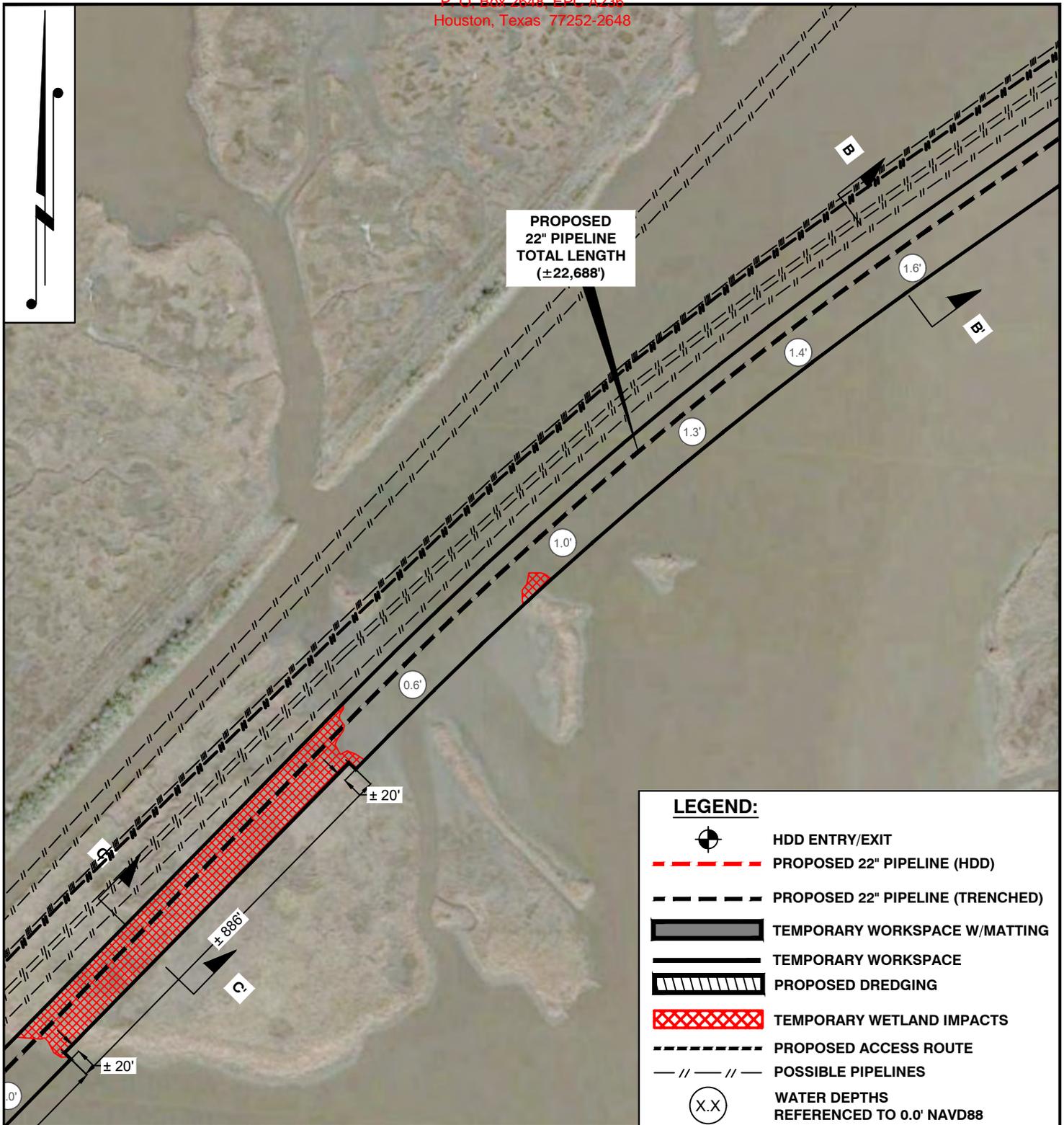
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SHEET 7 OF 16

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**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

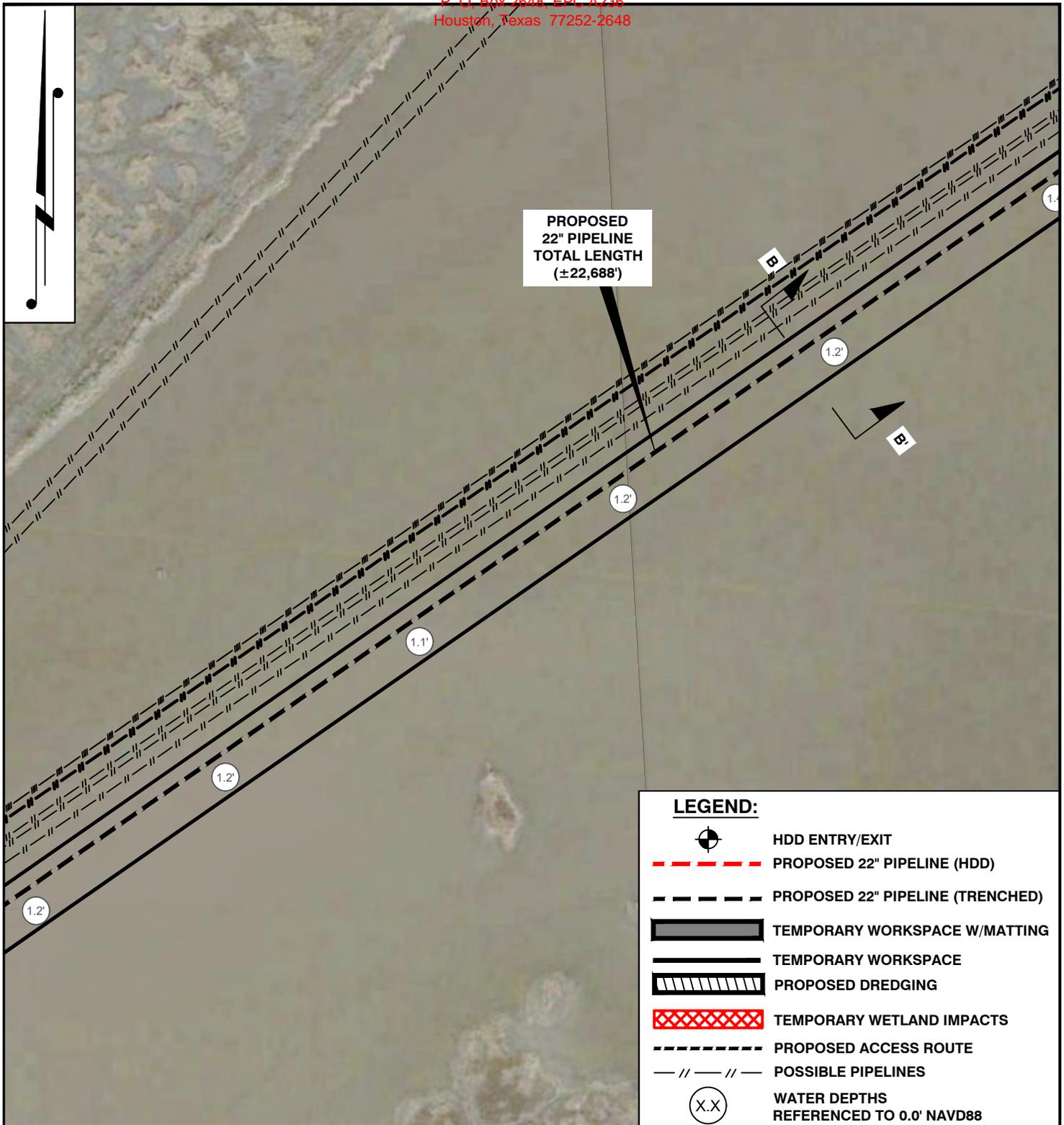
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SHEET 8 OF 16

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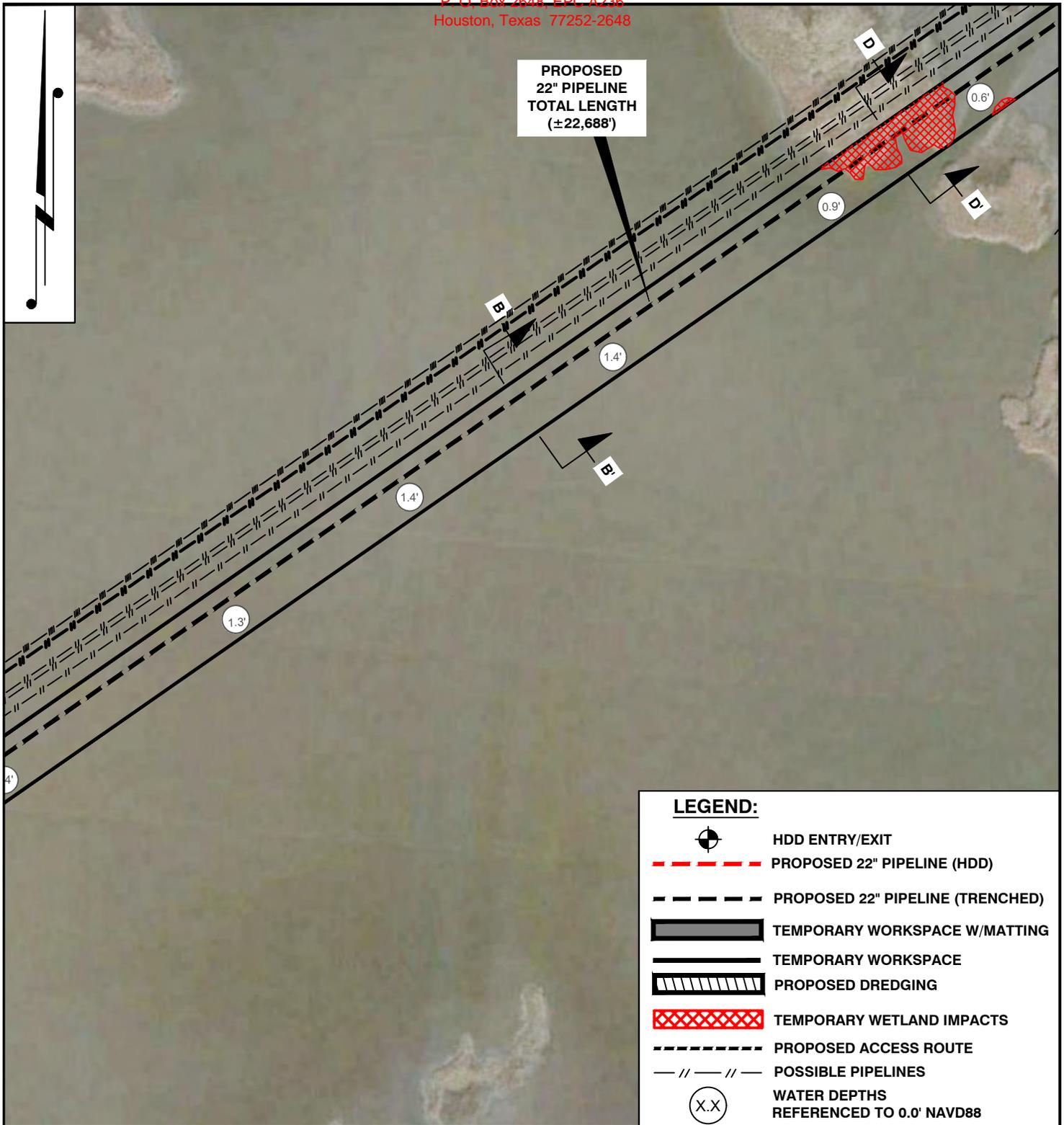
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- PROPOSED DREDGING
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**PRELIMINARY**

SHEET 9 OF 16

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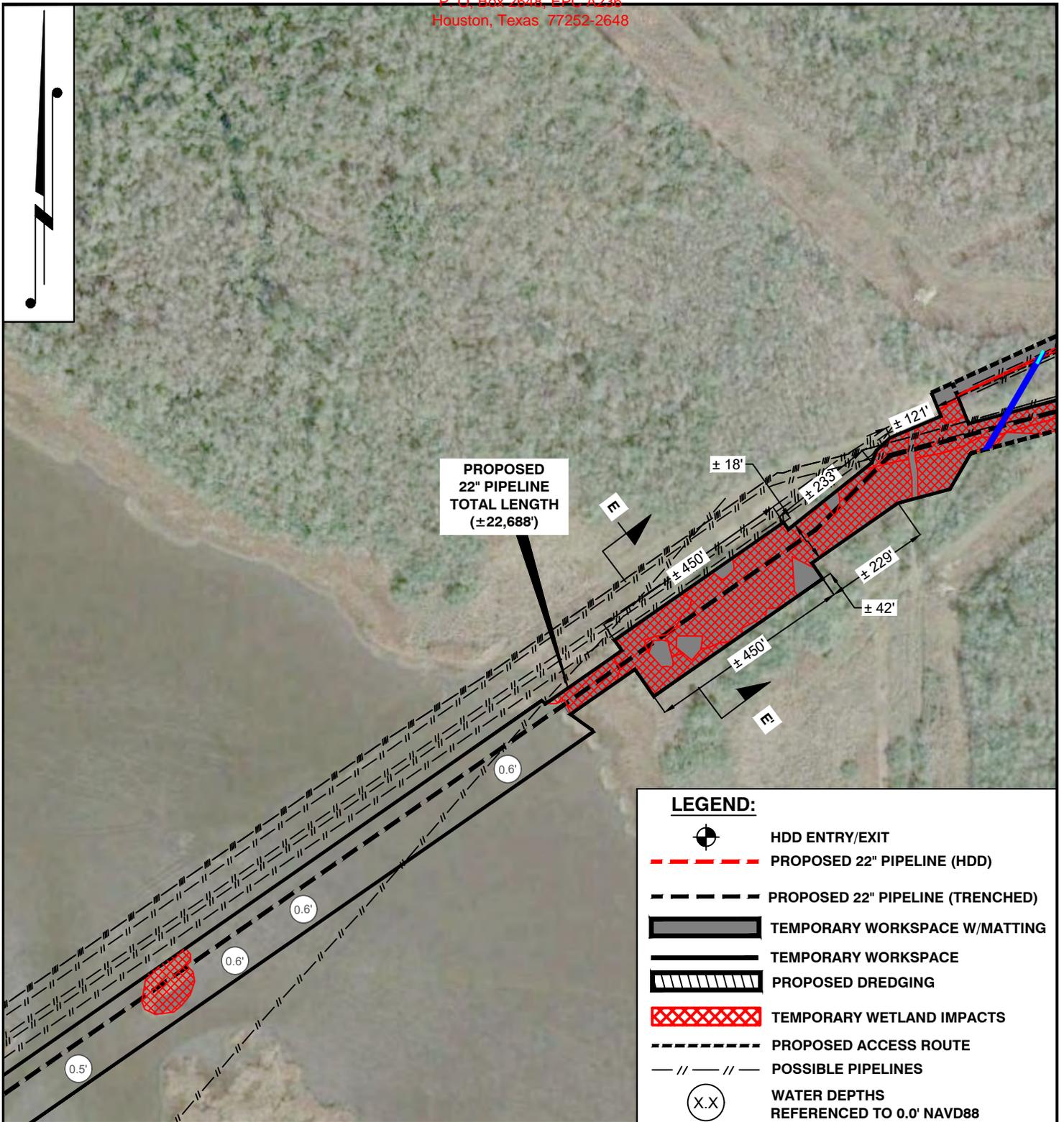
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**PROPOSED  
 22" PIPELINE  
 TOTAL LENGTH  
 (±22,688')**

**LEGEND:**

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- PROPOSED 22" PIPELINE (HDD)
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- TEMPORARY WORKSPACE W/MATTING
- TEMPORARY WORKSPACE
- PROPOSED DREDGING
- TEMPORARY WETLAND IMPACTS
- PROPOSED ACCESS ROUTE
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**PRELIMINARY**

SCALE: 1" = 300'



SHEET 10 OF 16

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**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

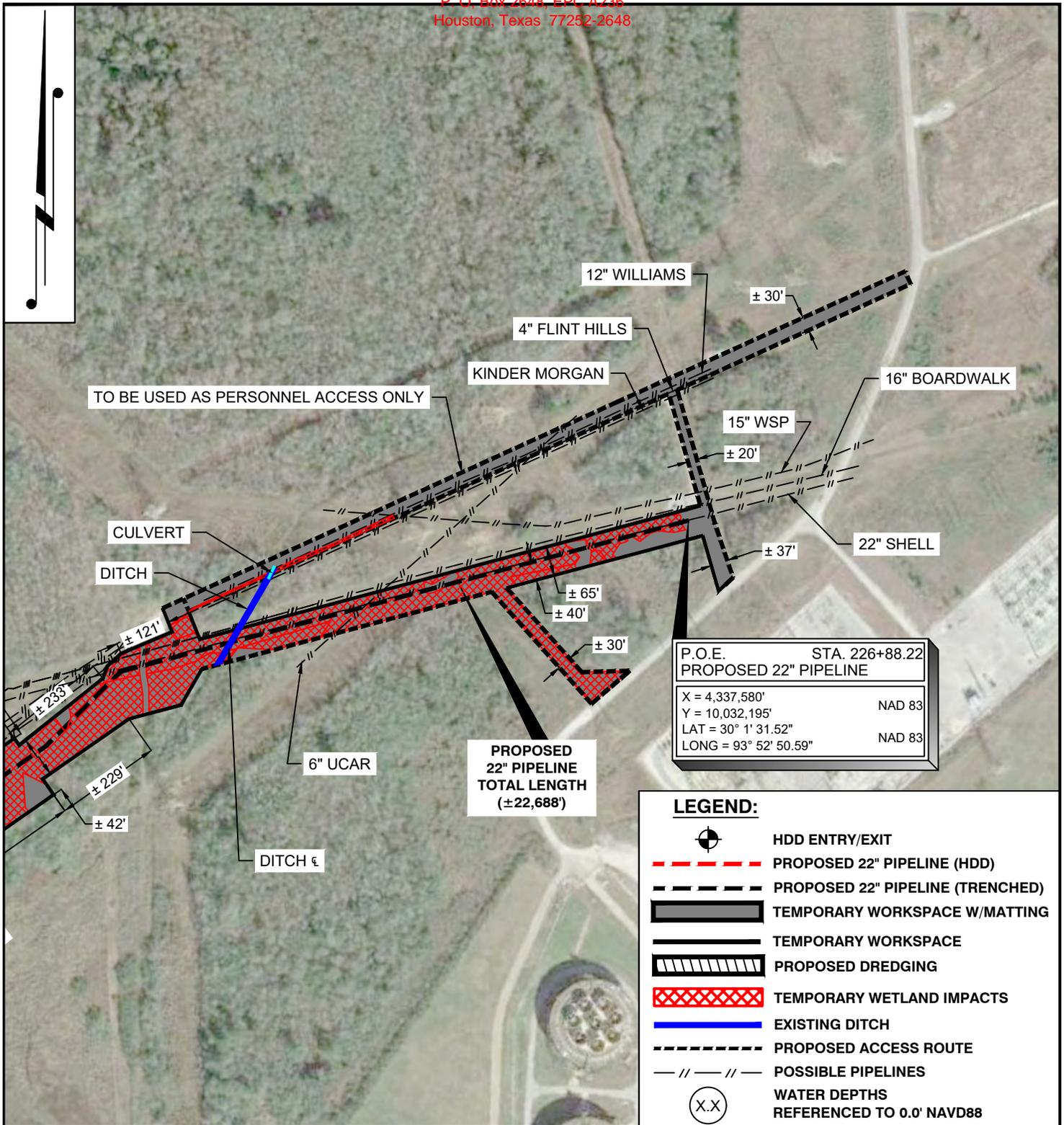
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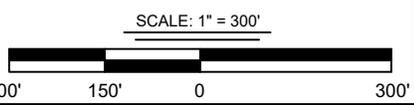
P.O.E. STA. 226+88.22  
 PROPOSED 22" PIPELINE  
 X = 4,337,580' NAD 83  
 Y = 10,032,195' NAD 83  
 LAT = 30° 1' 31.52" NAD 83  
 LONG = 93° 52' 50.59" NAD 83

**PROPOSED 22" PIPELINE  
 TOTAL LENGTH  
 (±22,688')**

**LEGEND:**

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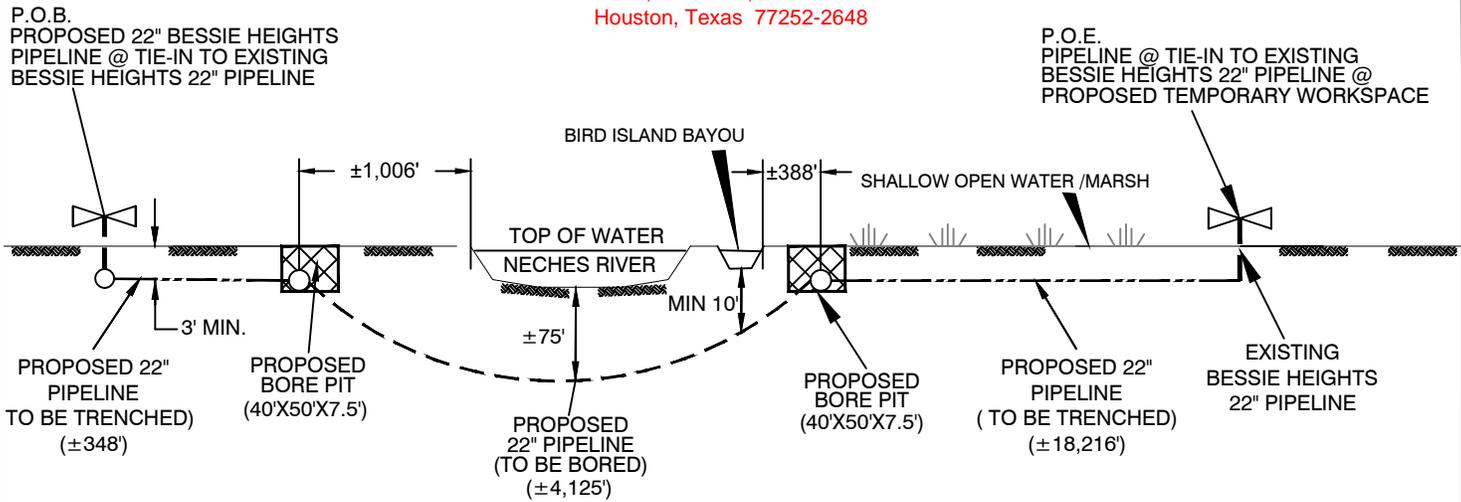
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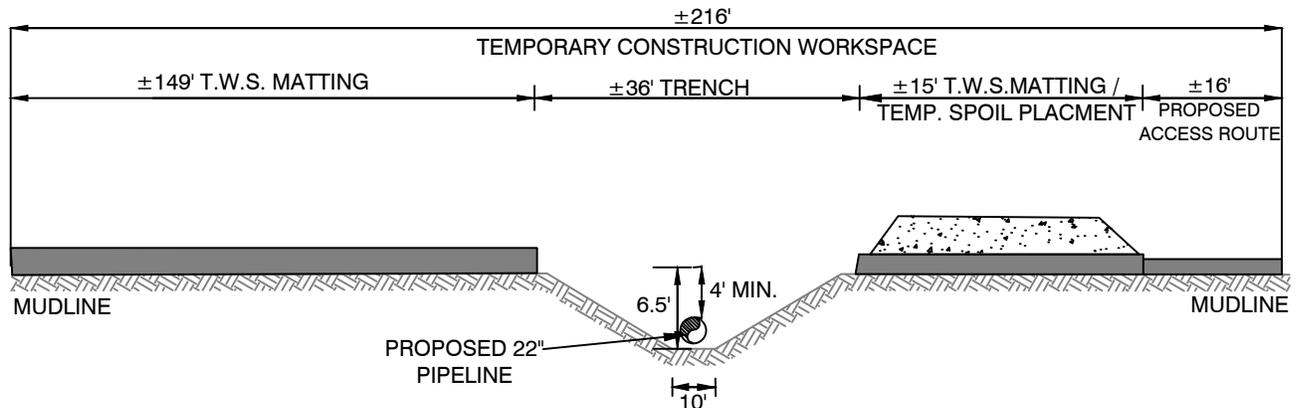
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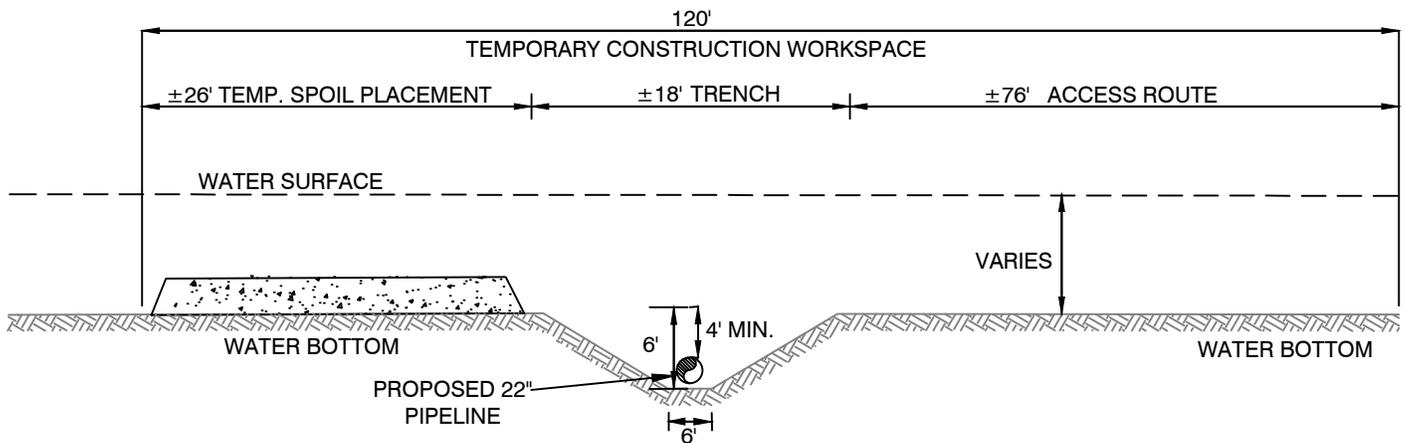
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**PROPOSED PIPELINE PROFILE**  
 NOT TO SCALE



**CROSS-SECTION A-A'**  
 NOT TO SCALE



**CROSS-SECTION B-B'**  
 NOT TO SCALE

**PRELIMINARY**

SHEET 12 OF 16

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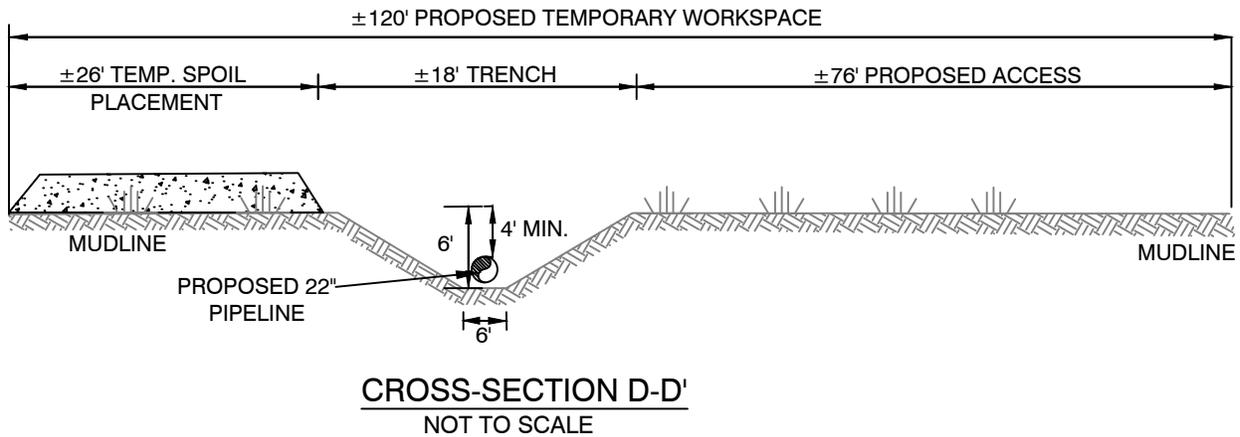
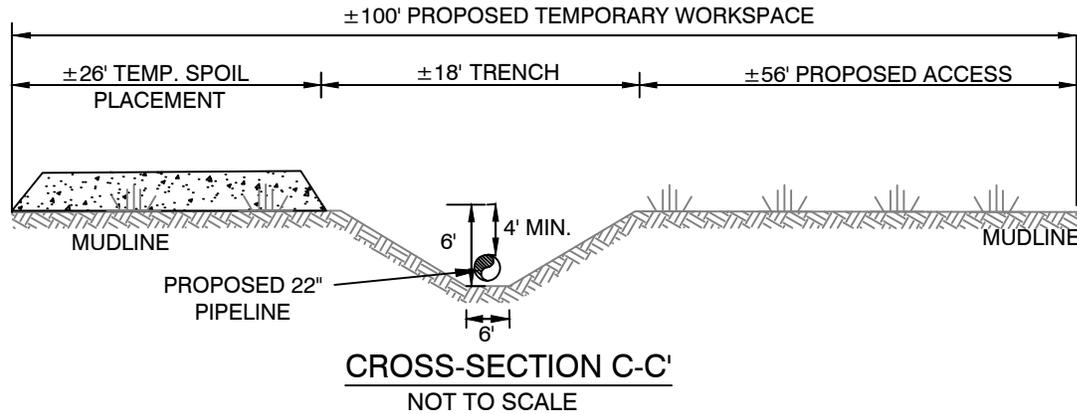
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**PRELIMINARY**

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3	05/03/18	REVISED PLAT PER CLIENTS REQUEST		RRB	ADM
2	04/19/18	REVISED 22" PROPOSED PIPELINE		RRB	ADM

**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

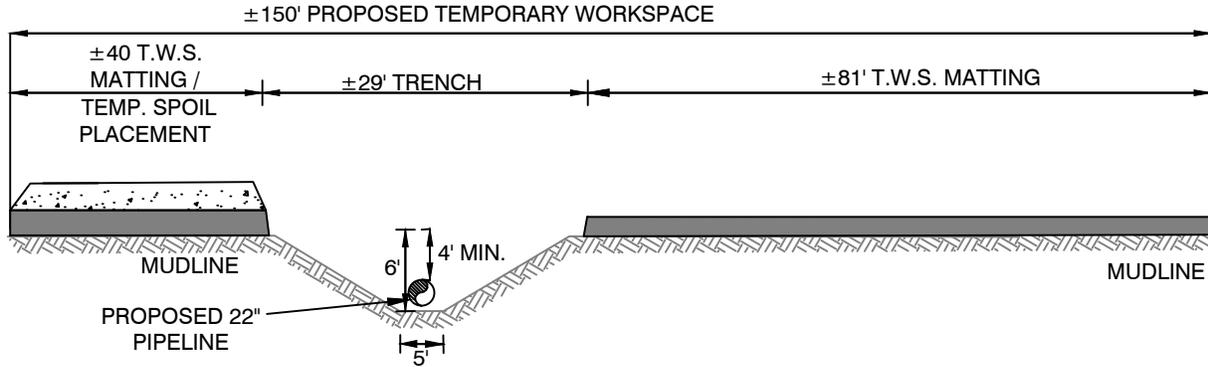
**PROPOSED PIPELINE REPLACEMENT  
 FOR THE BESSIE HEIGHTS PIPELINE  
 JEFFERSON & ORANGE COUNTY, TEXAS**

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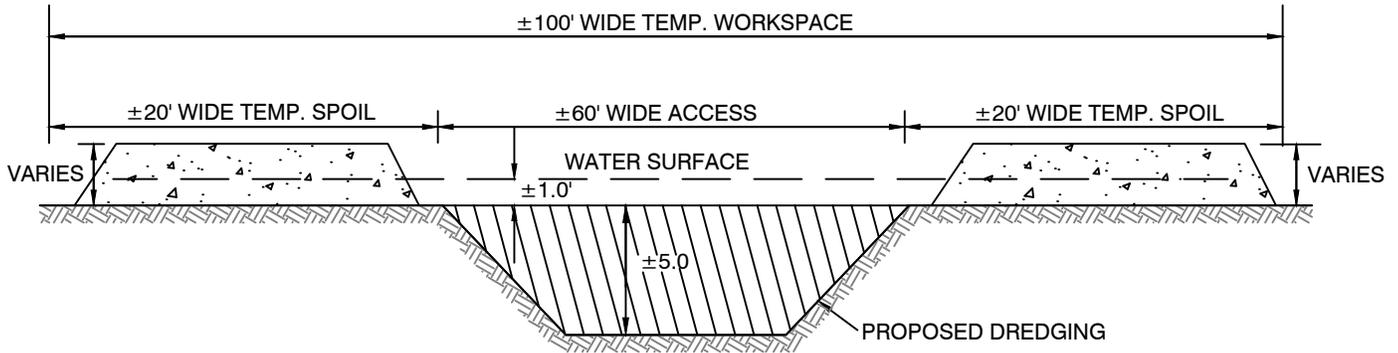
DATE: 03/01/2018  
 BY: TBS-2017.1061

**SPLC-GOM-**

REV.  
**0**



**CROSS-SECTION E-E'**  
 NOT TO SCALE



**CROSS-SECTION F-F'**  
 NOT TO SCALE

**PRELIMINARY**

**SHEET 14 OF 16**

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2. FOR PERMITTING PURPOSES ONLY. THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, OR SALES.
3. COORDINATES, BASED ON THE TEXAS STATE PLAN COORDINATE SYSTEM, CENTRAL ZONE (4204), US SURVEY FEET, NORTH AMERICAN DATUM OF 83 (2011).

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**BESSIE HEIGHTS LINE REPLACEMENT**

**PIPELINE PROTECTION PROJECT**

**PROPOSED PIPELINE REPLACEMENT  
 FOR THE BESSIE HEIGHTS PIPELINE  
 JEFFERSON & ORANGE COUNTY, TEXAS**

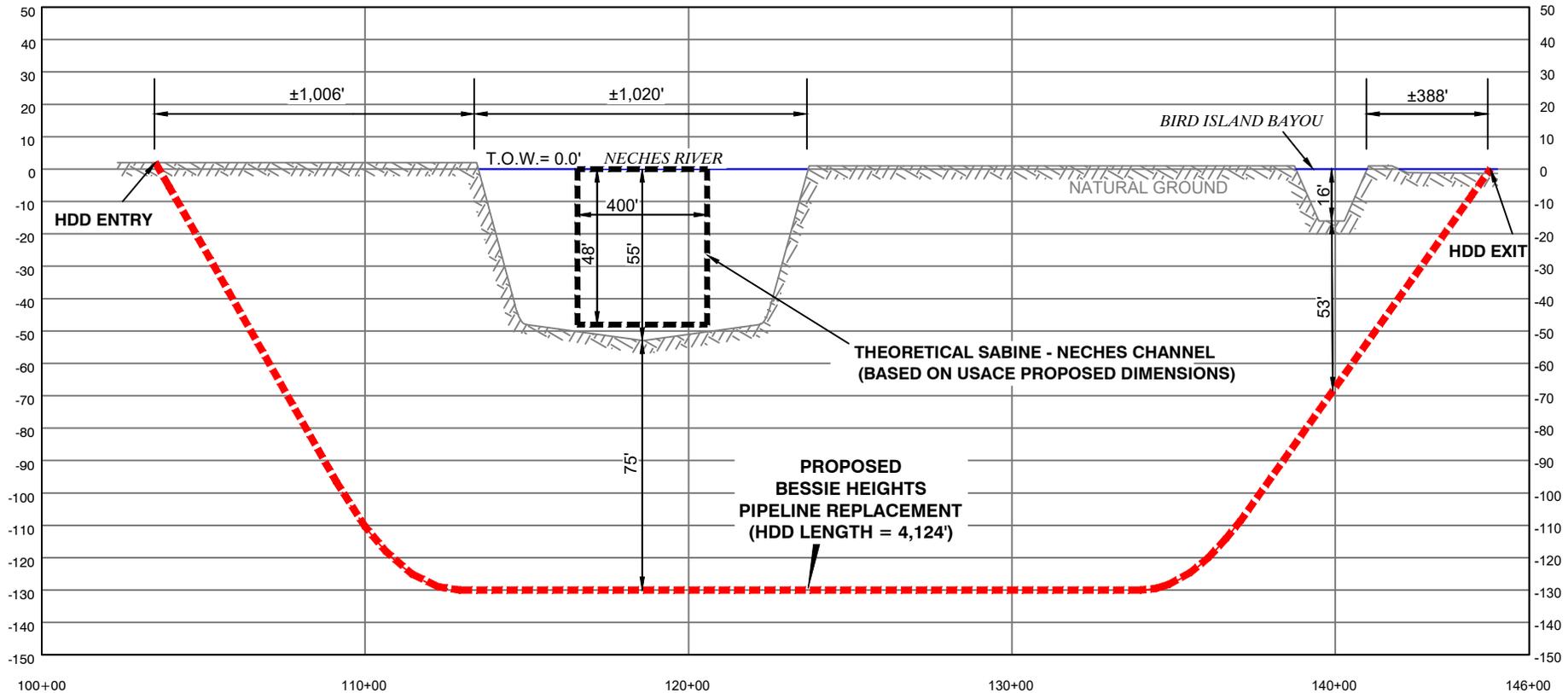
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DATE: 03/01/2018  
 BY: TBS-2017.1061

**SPLC-GOM-**

REV.  
**0**

MHL 0.99'  
 MLW 0.10'  
 TIDE INFO TAKEN FROM GAGE: 8770520  
 RAINBOW BRIDGE, TX



**HDD PROFILE VIEW**  
 NOT TO SCALE

**PRELIMINARY**

SHEET 15 OF 16

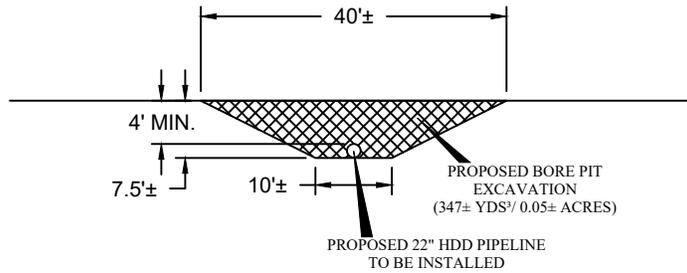
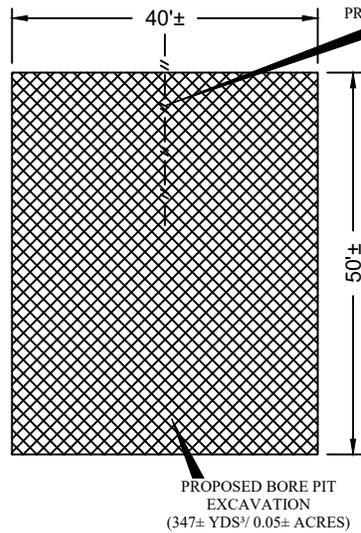
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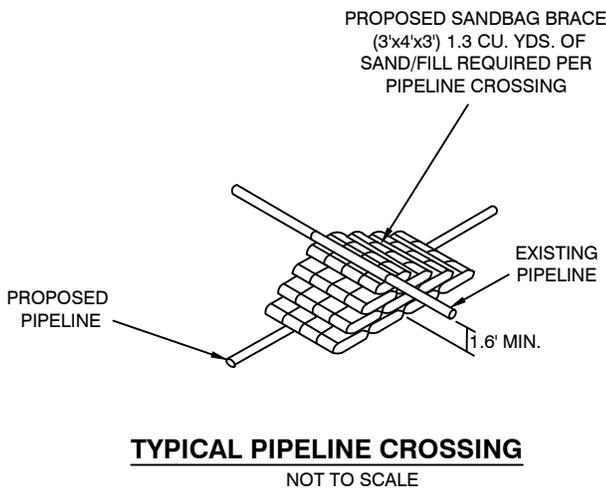
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<b>BESSIE HEIGHTS LINE REPLACEMENT</b>	
<b>PIPELINE PROTECTION PROJECT</b>	
<b>PROPOSED PIPELINE REPLACEMENT FOR THE BESSIE HEIGHTS PIPELINE JEFFERSON &amp; ORANGE COUNTY, TEXAS</b>	
DATE: 03/01/2018	<b>SPLC-GOM-</b>
BY: TBS-2017.1061	
REV. <b>0</b>	



Proposed temporary spoil placement to be stockpiled within workspace and used as backfill. See plan views for location & dimensions.

### EXCAVATION DETAIL- BORE PIT



**CALCULATIONS:**

**Volume:**

APPROXIMATELY 16,625 CU. YDS. OF MATERIAL TO BE DISPLACED DUE TO EXCAVATION IN WETLANDS.

APPROXIMATELY 36,386 CU. YDS. OF MATERIAL DISPLACED DUE TO EXCAVATION IN OPEN WATER.

Chipped trees and scrub shrub will add an additional 1780 cy of fill in wetlands.

**Acreage:**

APPROXIMATELY 4.2 ACRES OF PALUSTRINE EMERGENT WETLANDS TO BE TEMPORARILY IMPACTED DUE TO TEMPORARY WORKSPACE.

APPROXIMATELY 5.6 ACRES OF ESTUARINE EMERGENT WETLANDS TO BE TEMPORARILY IMPACTED DUE TO TEMPORARY WORKSPACE.

APPROXIMATELY 2.0 ACRES OF PALUSTRINE FORESTED WETLANDS TO BE TEMPORARILY IMPACTED DUE TO TEMPORARY WORKSPACE.

APPROXIMATELY 0.3 ACRES OF PALUSTRINE SCRUB SHRUB WETLANDS TO BE TEMPORARILY IMPACTED DUE TO TEMPORARY WORKSPACE.

APPROXIMATELY 39.9 ACRES OF OPEN WATER TO BE TEMPORARILY IMPACTED DUE TO TEMPORARY WORKSPACE.

**BESSIE HEIGHTS GENERAL EQUIPMENT ANTICIPATED:**

- HDD - DRILL RIG & ASSOCIATED EQUIPMENT
- MARSH TRACT HOE
- EXCAVATOR
- TRUCKS
- BARGE & TUG

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**SHEET 16 OF 16**

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