

P.O.B. PROPOSED
1-2" FIBER OPTIC LINE
2-36" CRUDE OIL PIPELINES

P.O.B. PROPOSED
1-6" GAS SUPPLY PIPELINE

PROPOSED
ARKANSAS PASS
STAGING FACILITY

P.O.E. PROPOSED
1-2" FIBER OPTIC LINE
2-36" CRUDE OIL PIPELINES

P.O.B. PROPOSED
1-2" FIBER OPTIC LINE
1-6" GAS SUPPLY PIPELINE
1-16" REMIX PIPELINE
2-42" CRUDE OIL PIPELINES

P.O.E. PROPOSED
1-2" FIBER OPTIC LINE
1-6" GAS SUPPLY PIPELINE
1-16" REMIX PIPELINE
2-42" CRUDE OIL PIPELINES

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

VICINITY MAP
PLs & Facility.: Midway T.F. to Harbor Island



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



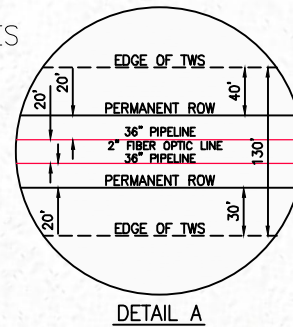
AXIS MIDSTREAM

AXIS MIDSTREAM HOLDINGS, LLC
Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS

Prepared BY: Project Consulting Services, Inc.

PROPOSED 102,229' OF 2-36" PIPELINES



DETAIL A

PROPOSED
MIDWAY FARM
TANK FARM
(SEE SHIT. 31 OF 39)

BEGINNING OF ROUTE

P.O.B.
1-2" FIBER OPTIC LINE
2-36" PIPELINES
X= 1,339,182.09'
Y= 17,219,888.37'
LAT: 27° 54' 23.27"
LON: 97° 24' 3.97"

Gas Well

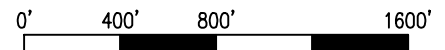
SEE DETAIL A

1-2" FIBER OPTIC LINE
2-36" CRUDE PIPELINES

M.P. 0:97

MP 1

PIPELINE CROSSING
WORKSPACE



— PROPOSED PIPELINES □ WORKSPACE [- -] FACILITY

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PLAN VIEW
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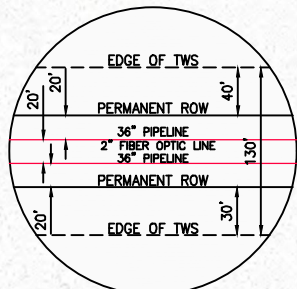
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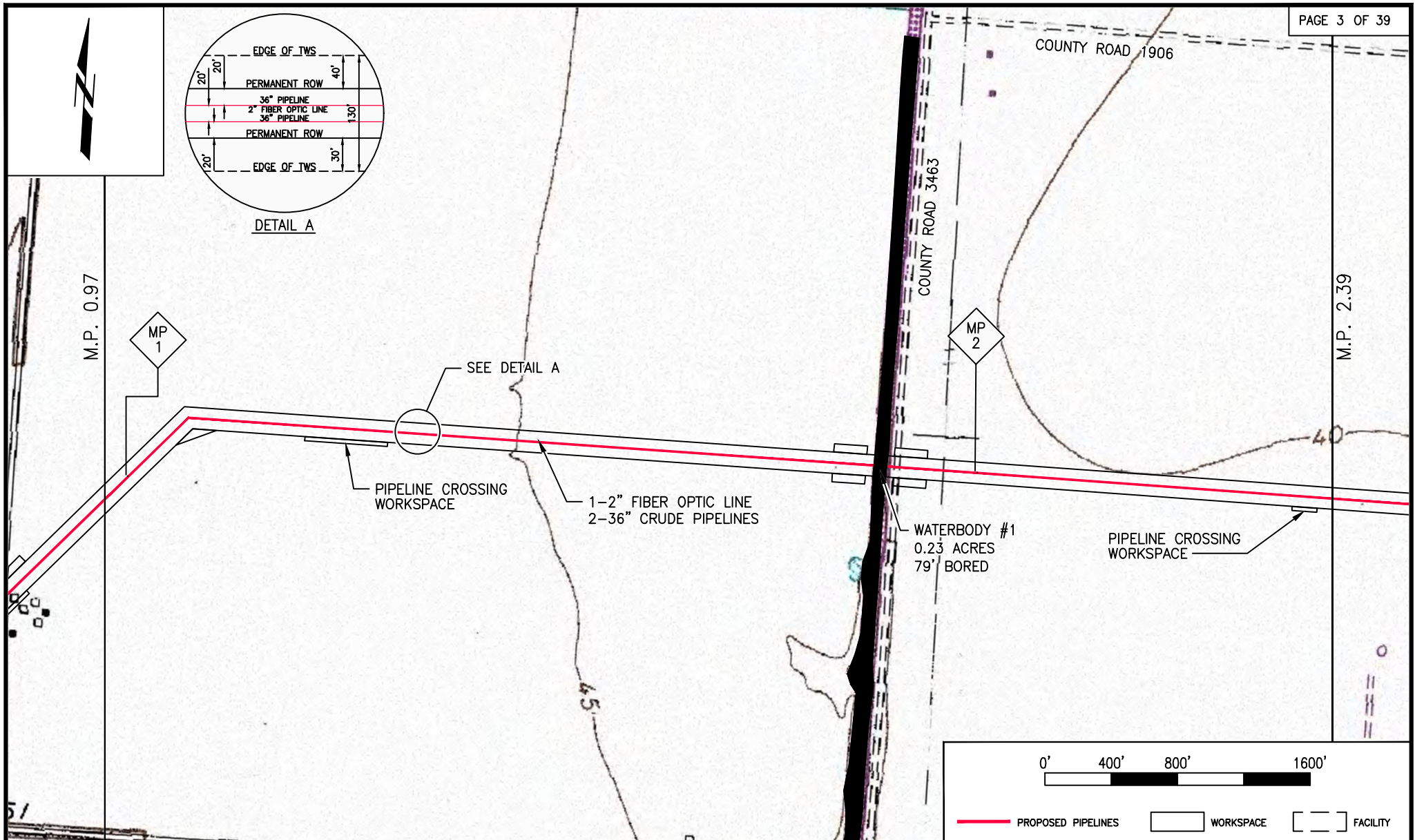


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— PROPOSED PIPELINES □ WORKSPACE [- -] FACILITY

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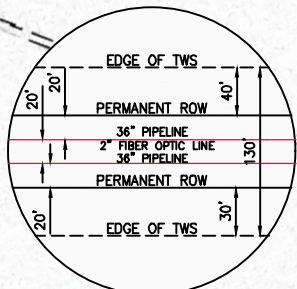
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DETAIL A

San Patricio Memorial Gardens (Cem)

COUNTY ROAD 3567

COUNTY ROAD 1906

M.P. 4.36

M.P. 2.39

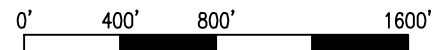
SEE DETAIL A
PIPELINE CROSSING WORKSPACE

1-2" FIBER OPTIC LINE
2-36" CRUDE PIPELINES

WATERBODY #2
0.1 ACRES
28' TRENCHED

MP 4

MP 3



— PROPOSED PIPELINES □ WORKSPACE [-] FACILITY

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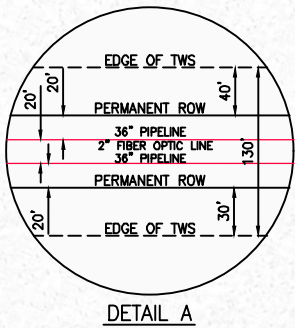
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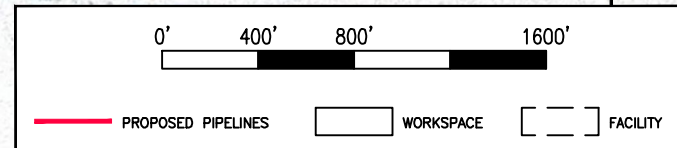
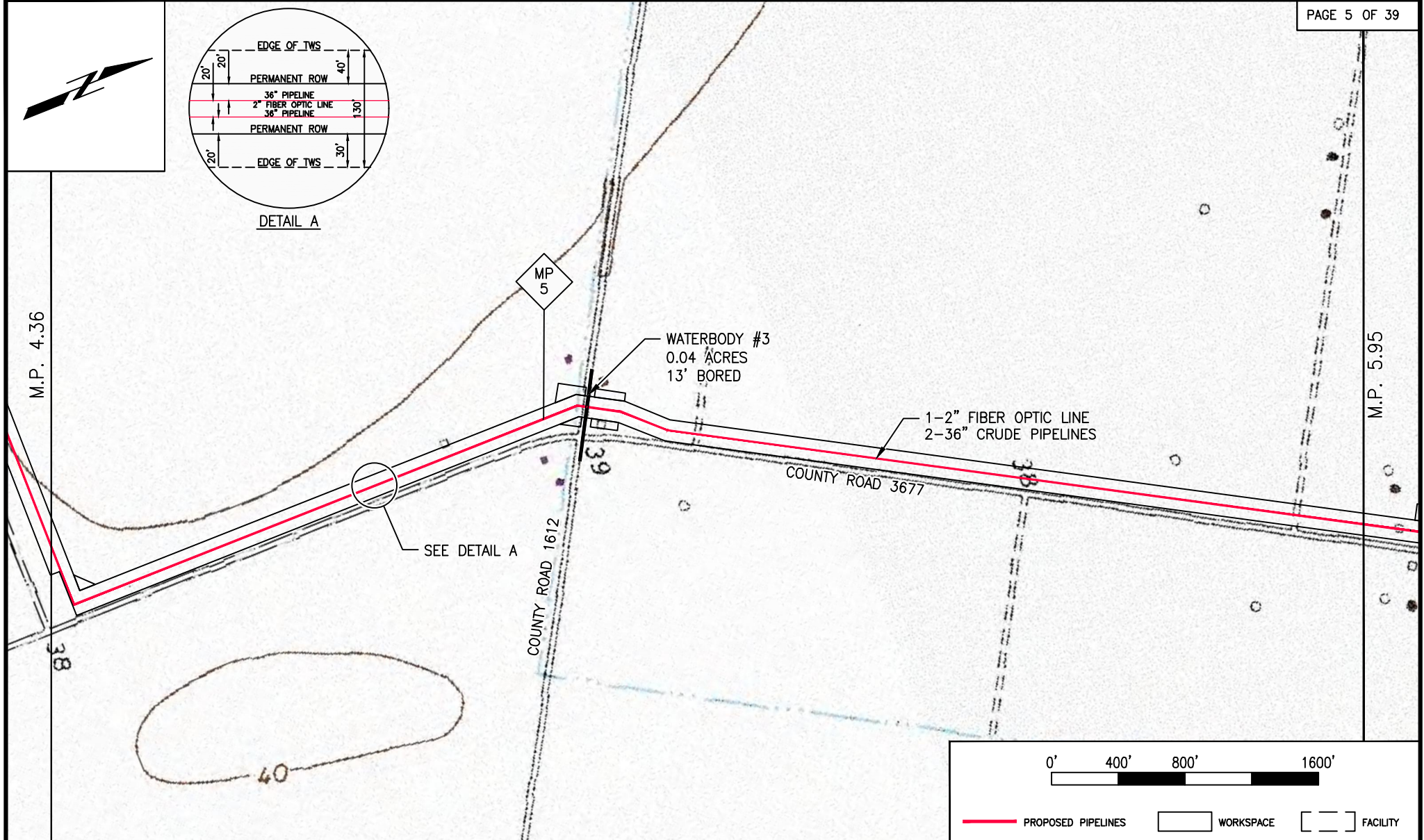
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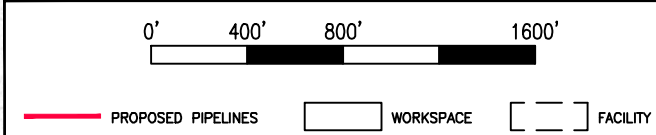
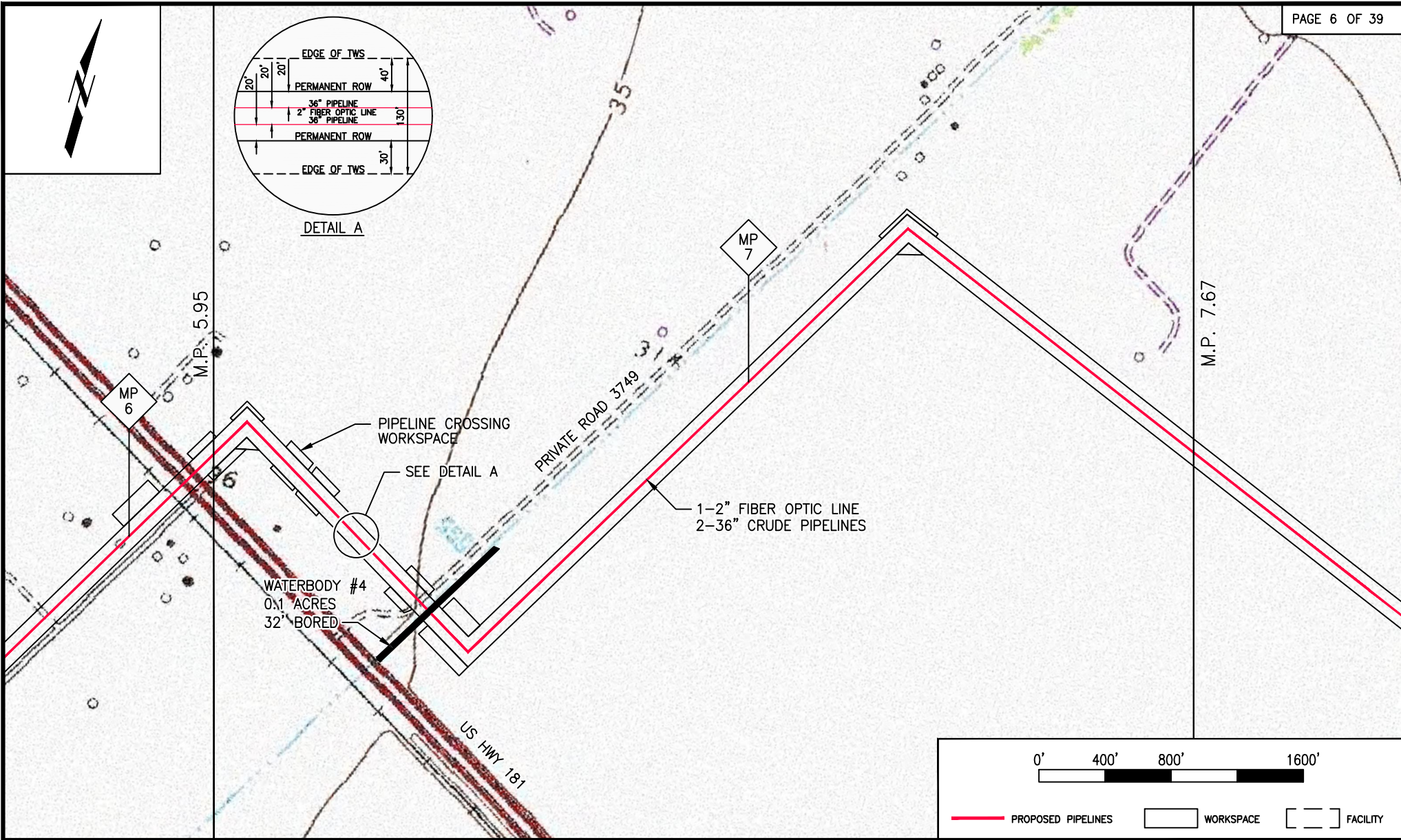
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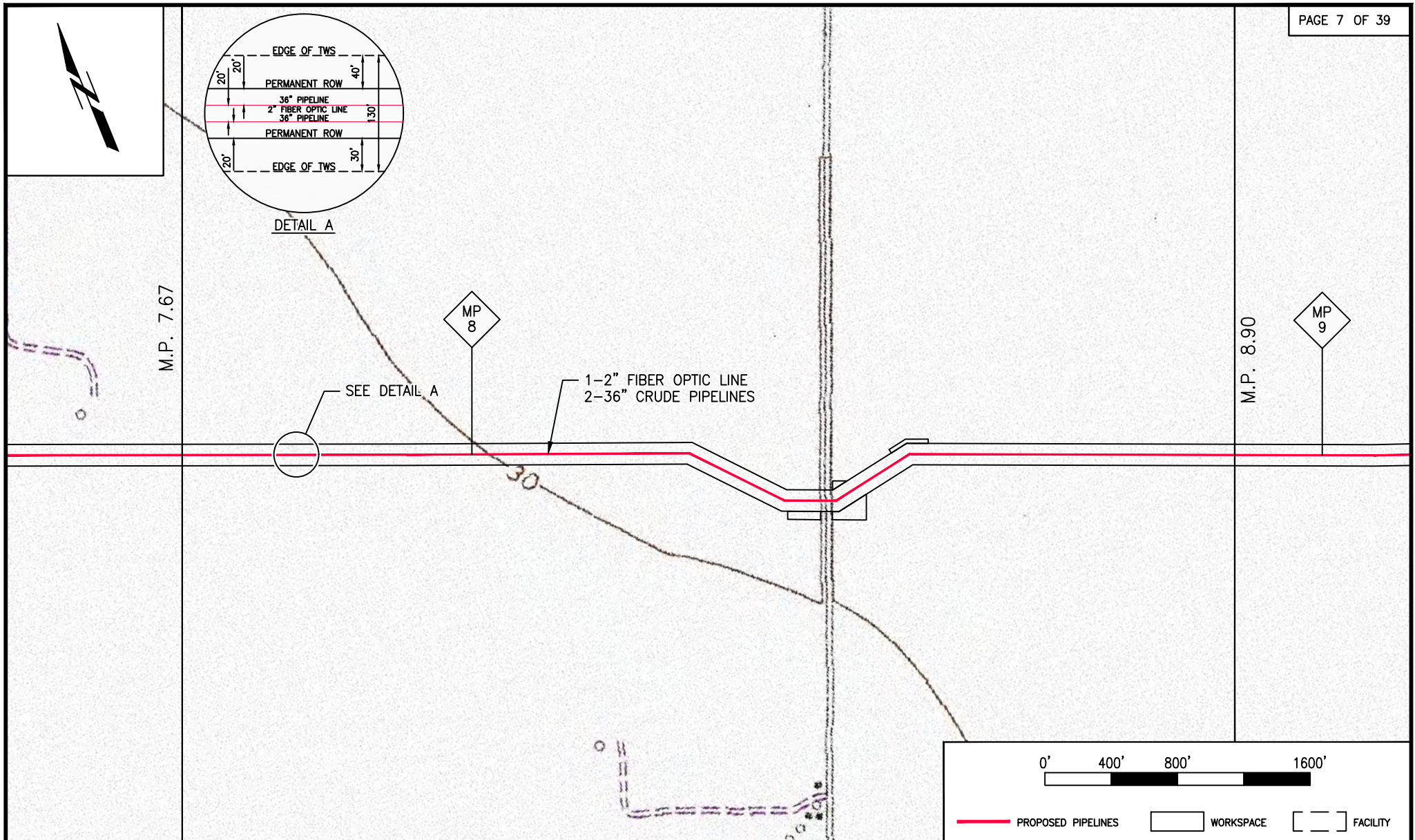
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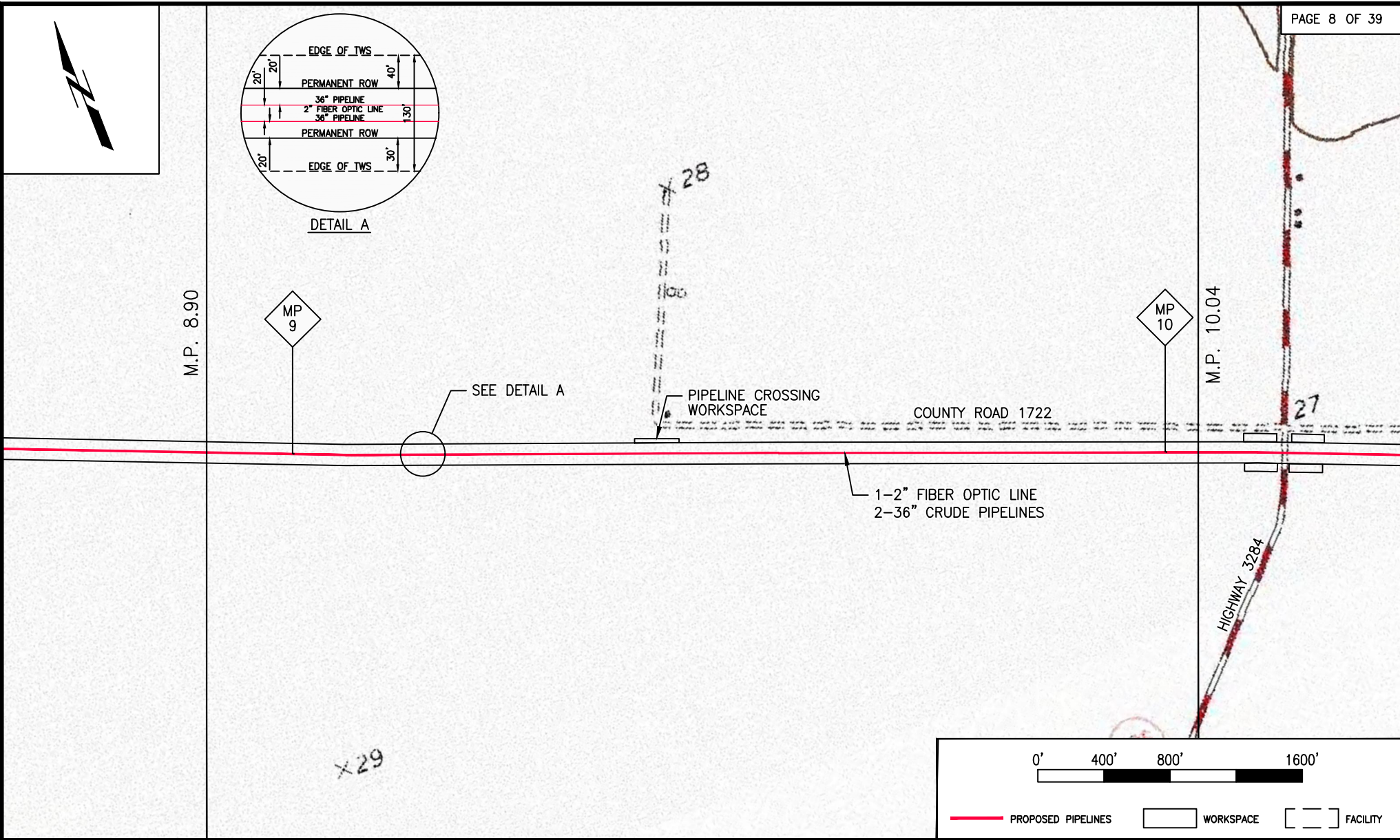


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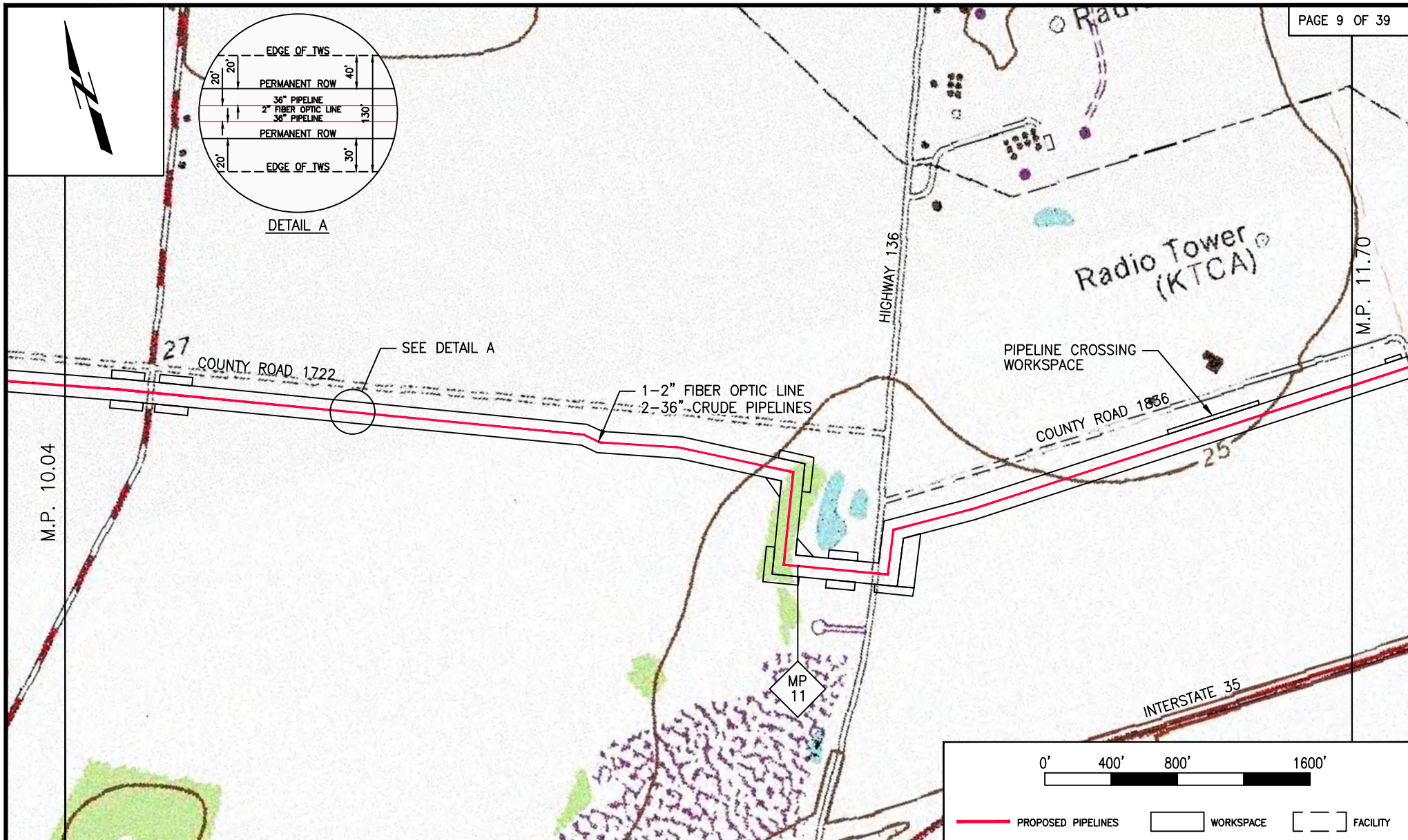


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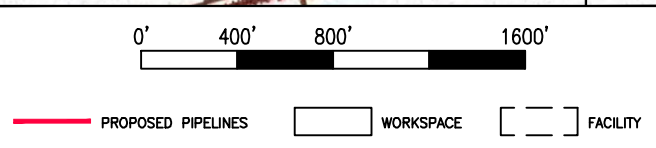
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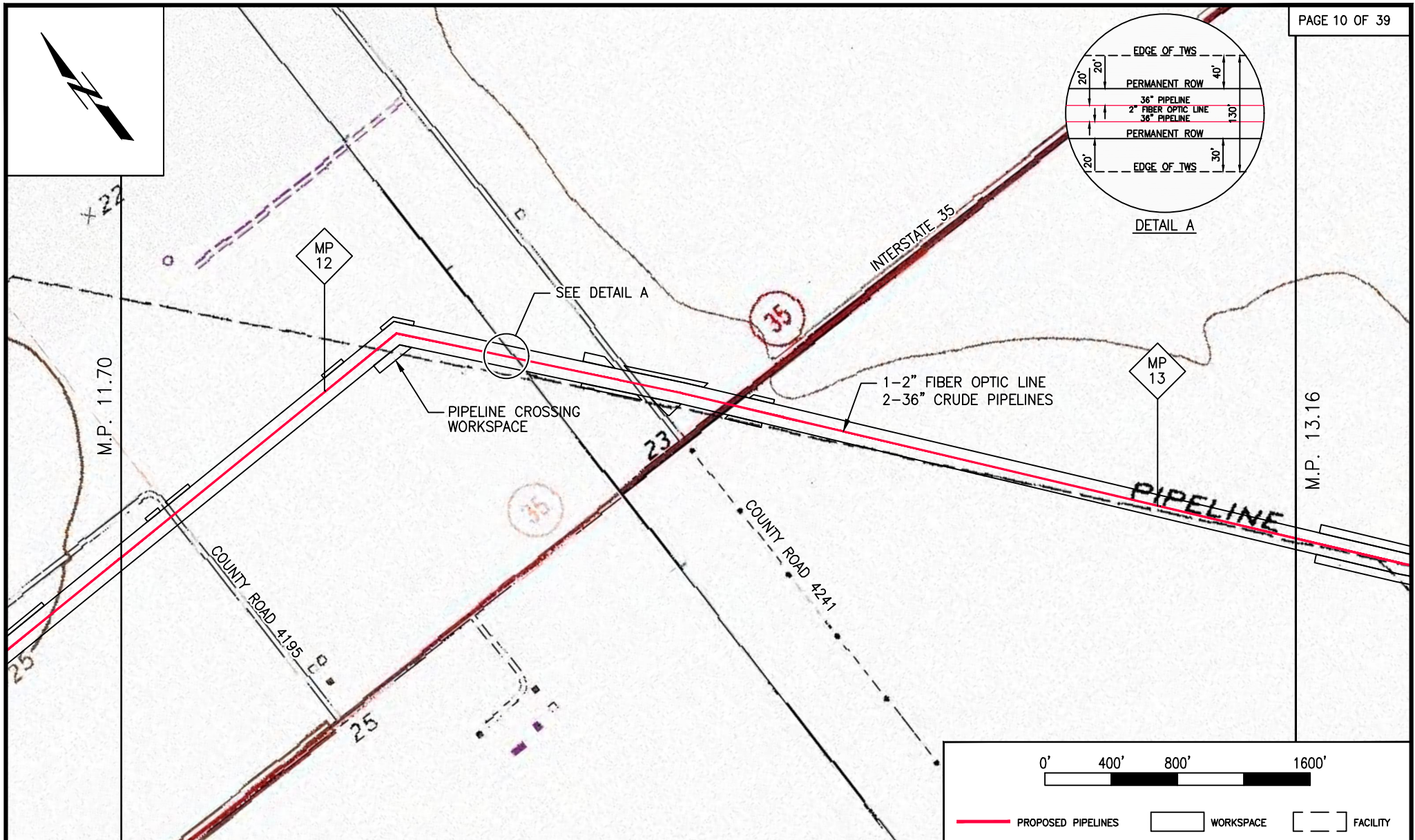
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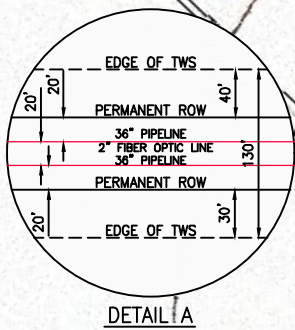


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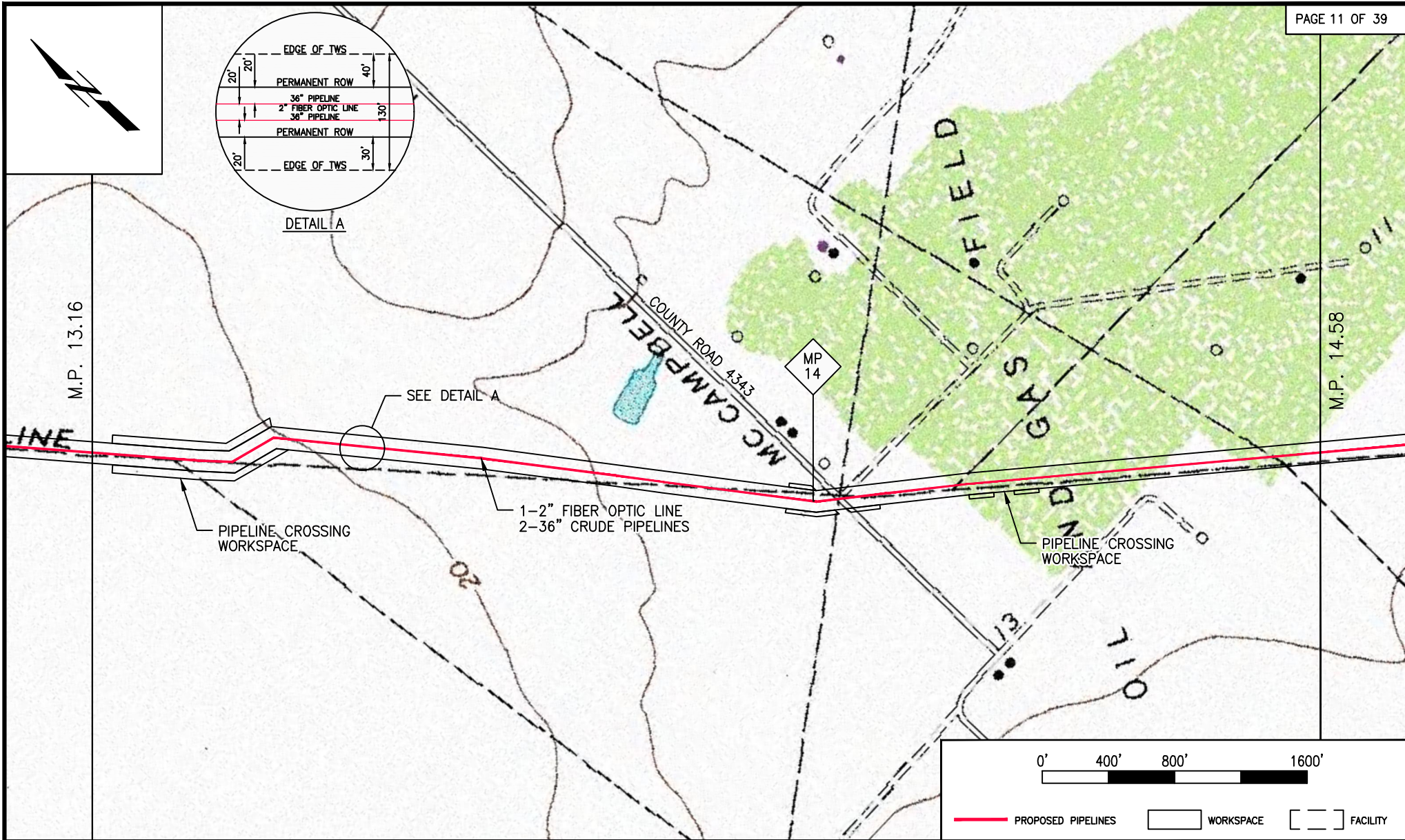
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DETAIL A



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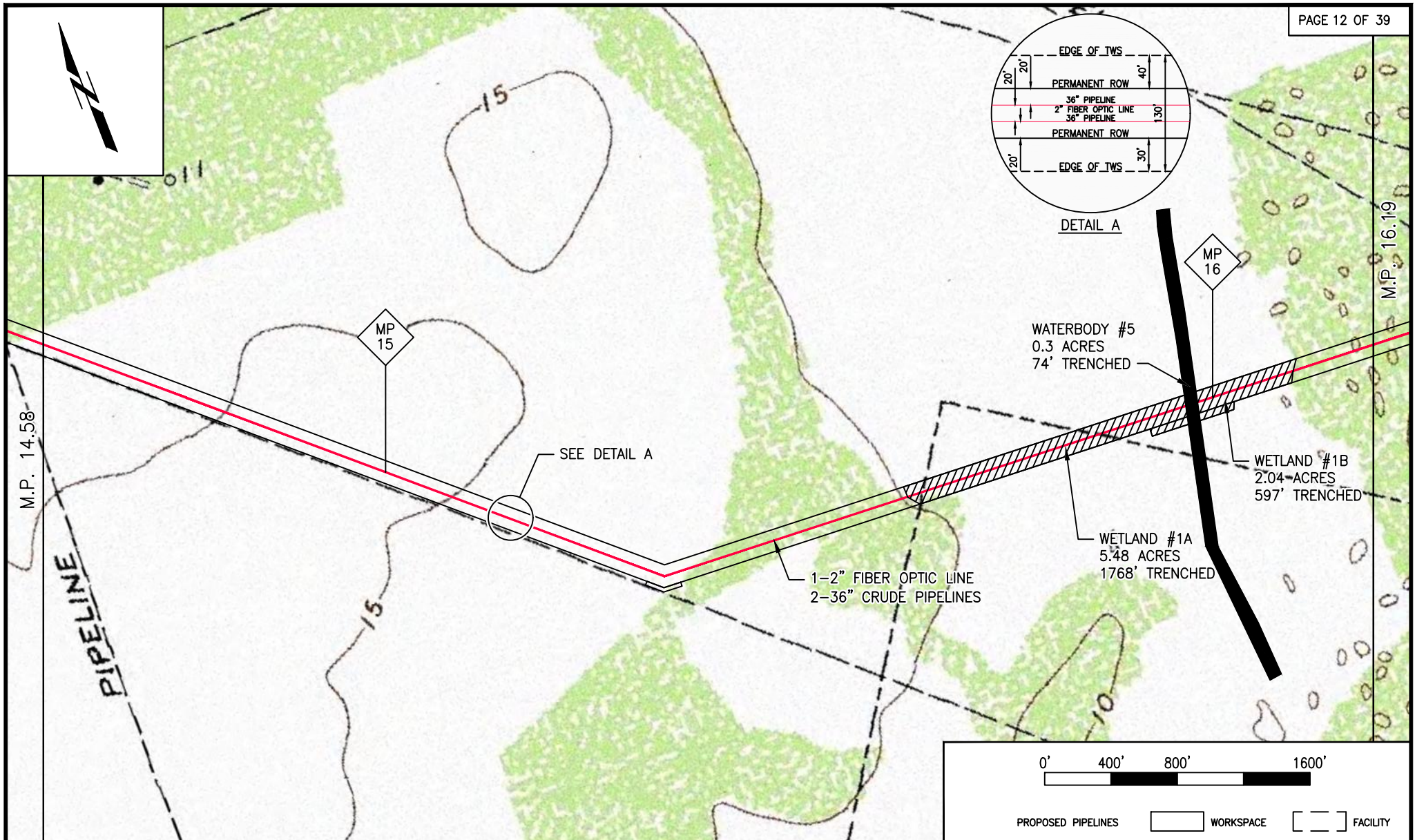
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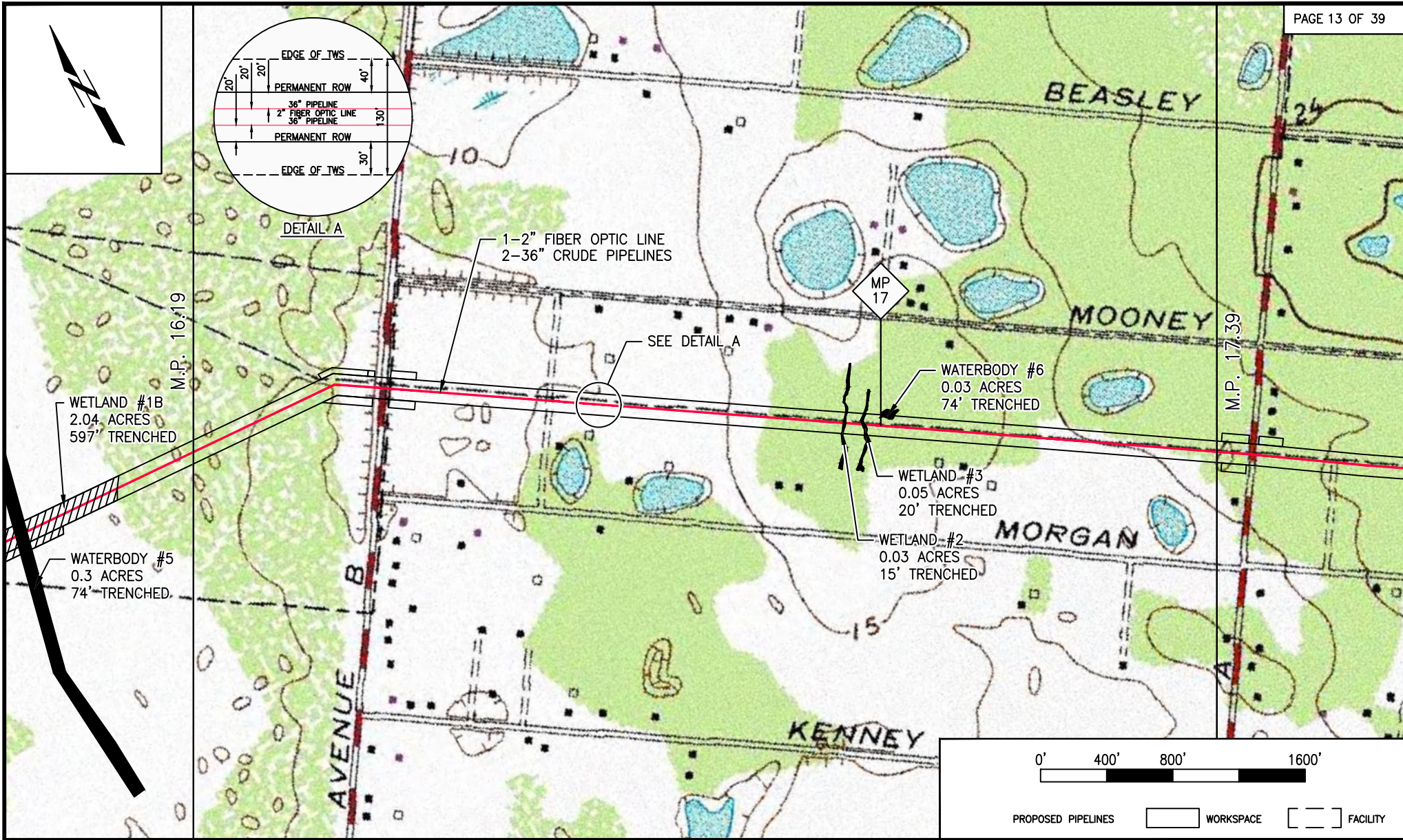
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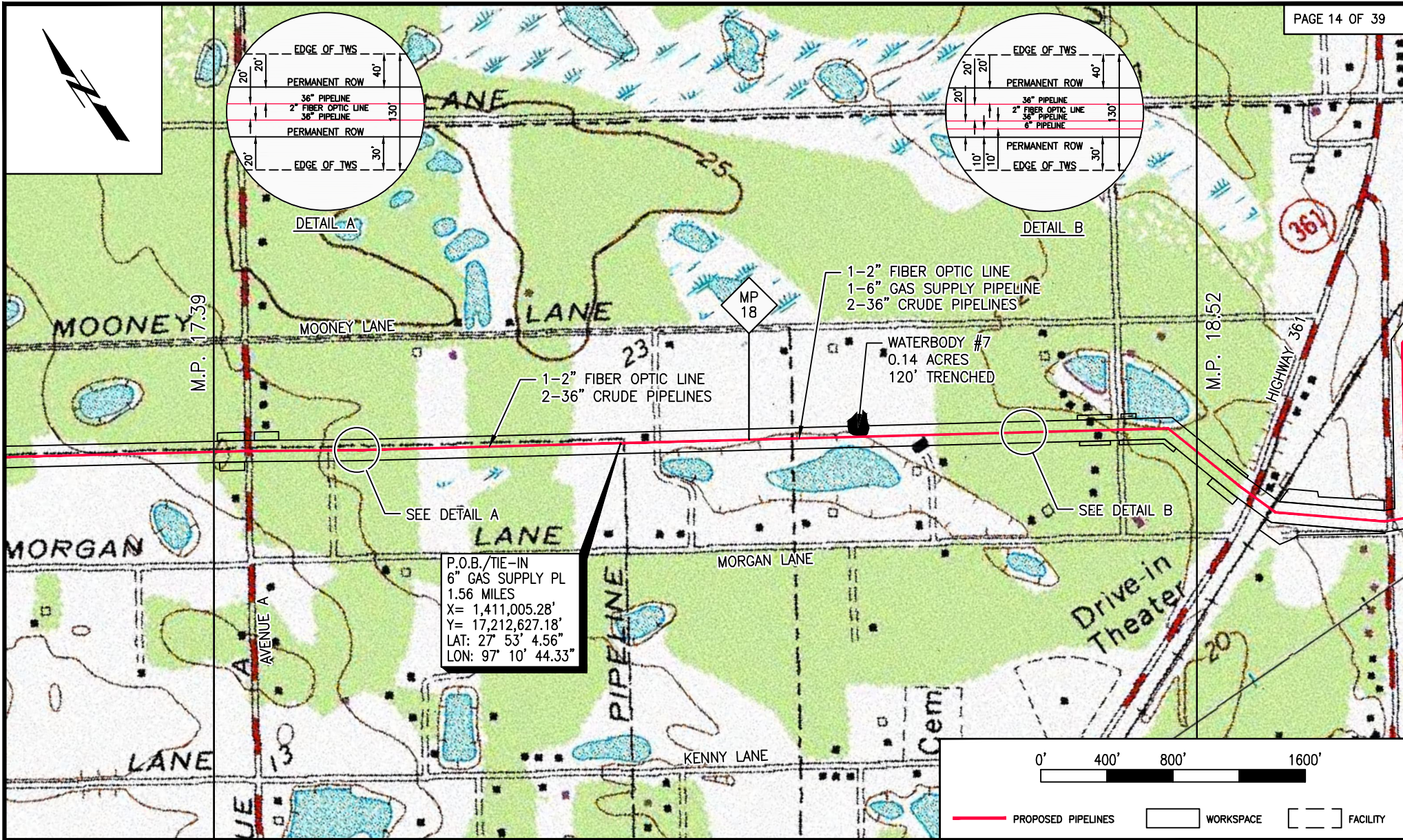
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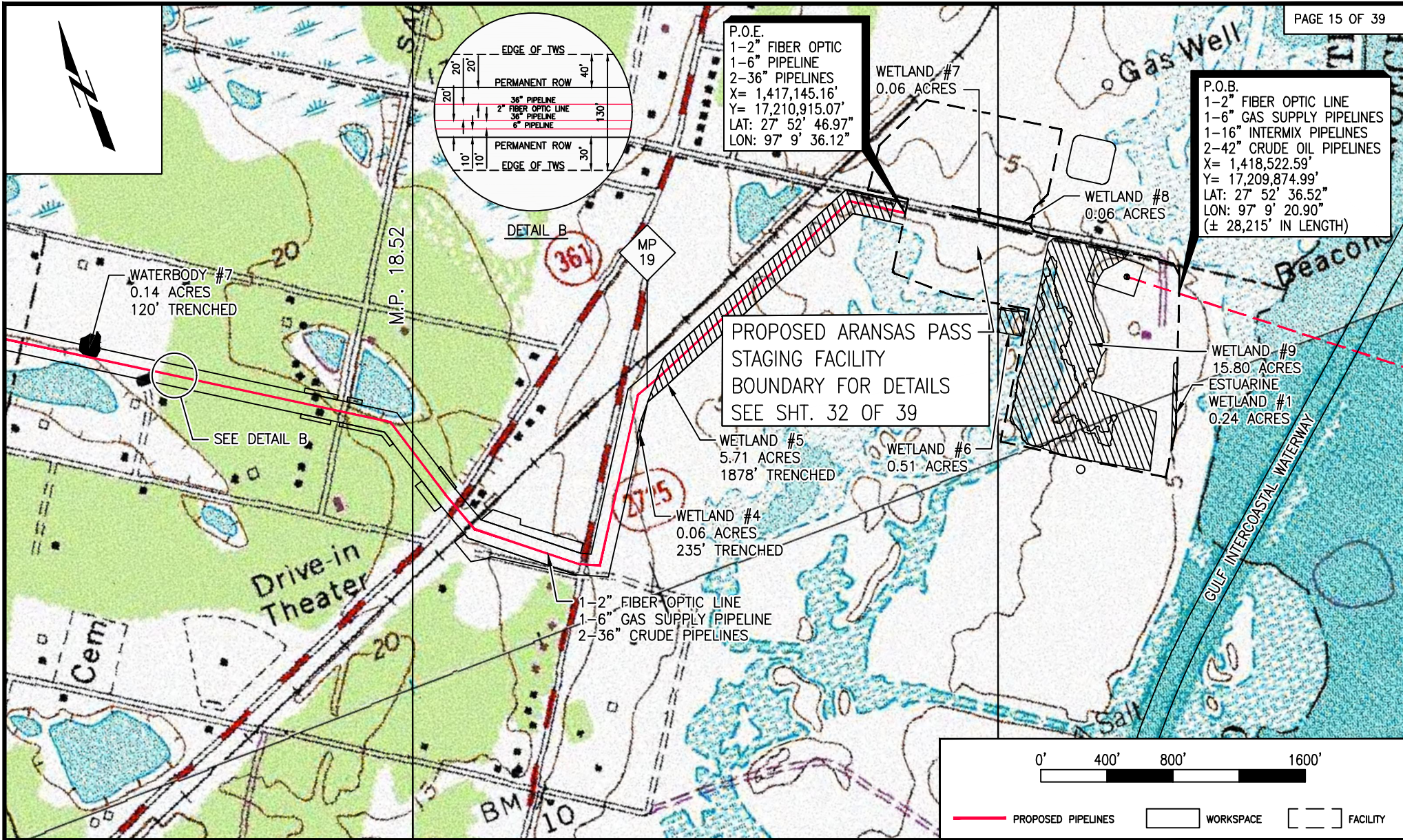
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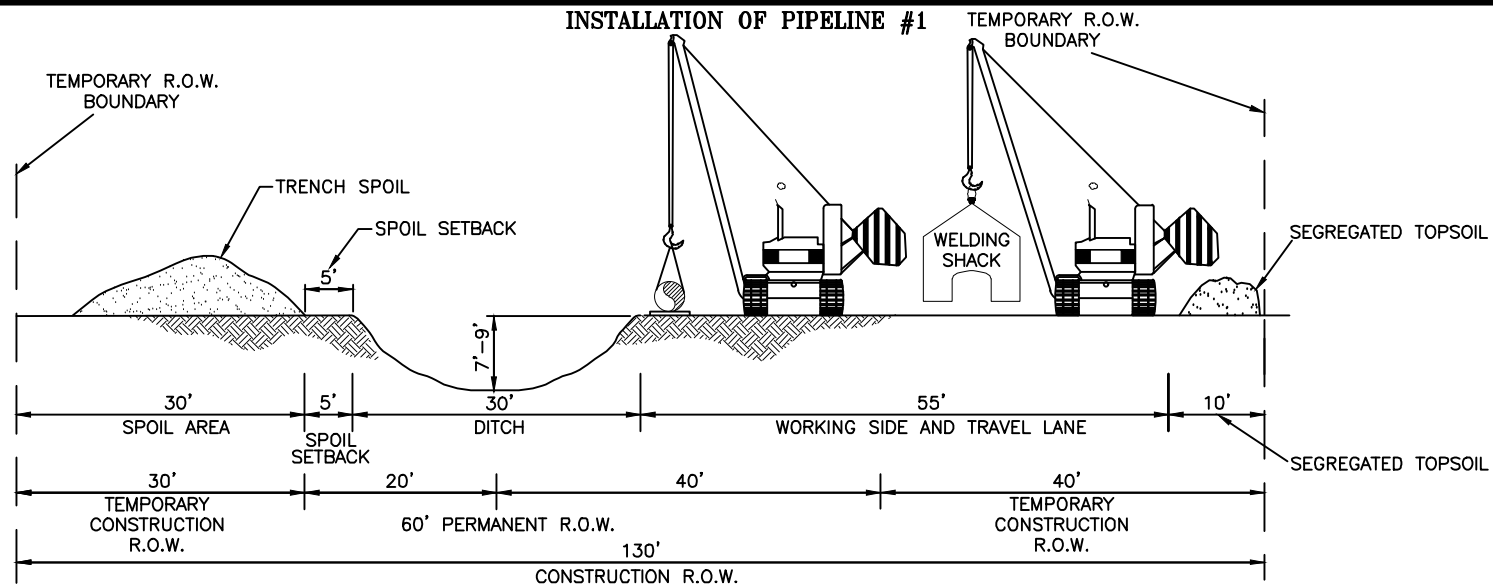
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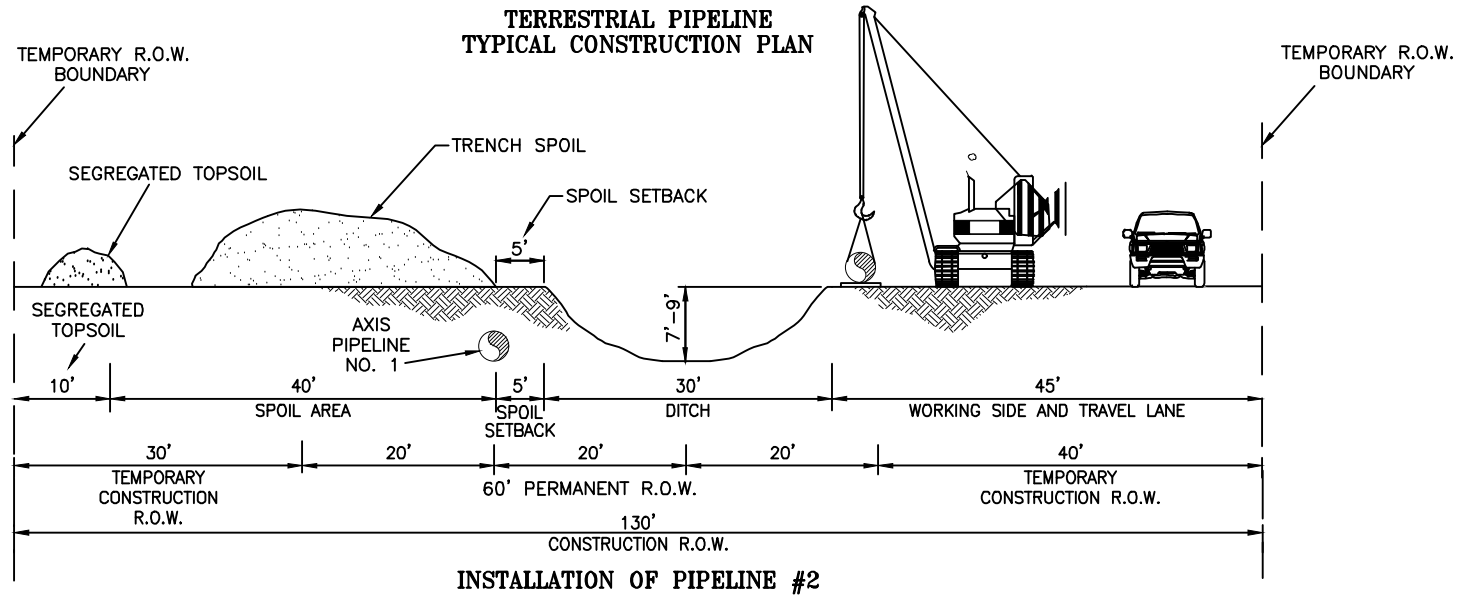
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NOTES:

1. ALTHOUGH THE DIMENSIONS SHOWN ARE TYPICAL, SOME VARIATIONS MAY EXIST DUE TO SITE SPECIFIC CONDITIONS. UNLESS OTHERWISE INDICATED ON THE ALIGNMENT SHEETS, THE MAXIMUM WIDTH OF THE CONSTRUCTION RIGHT-OF-WAY SHALL BE AS SHOWN IN THE TABLE FOR THE APPROPRIATE PIPE DIAMETER.
2. TOPSOIL AND SUBSOIL SHALL BE SEGREGATED WITHIN WETLAND, RESIDENTIAL, AGRICULTURAL, PASTURES, HAYFIELDS AND OTHER AREAS AT LANDOWNER'S OR LAND MANAGING AGENCY'S REQUEST.
3. 6" PIPELINE (NOT SHOWN) WILL BE PLACED IN DITCH WITH 1 FT WALL TO WALL SEPARATION WITH EITHER 36" PIPELINE #1 OR #2 DEPENDING ON CONTRACTOR SEQUENCE PREFERENCE AT TIME OF INSTALLATION.



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TYPICAL CROSS-SECTION
PLs: Midway T.F. to Aransas Fac.



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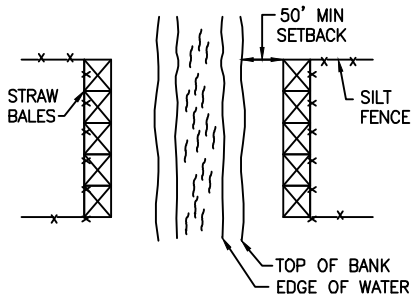
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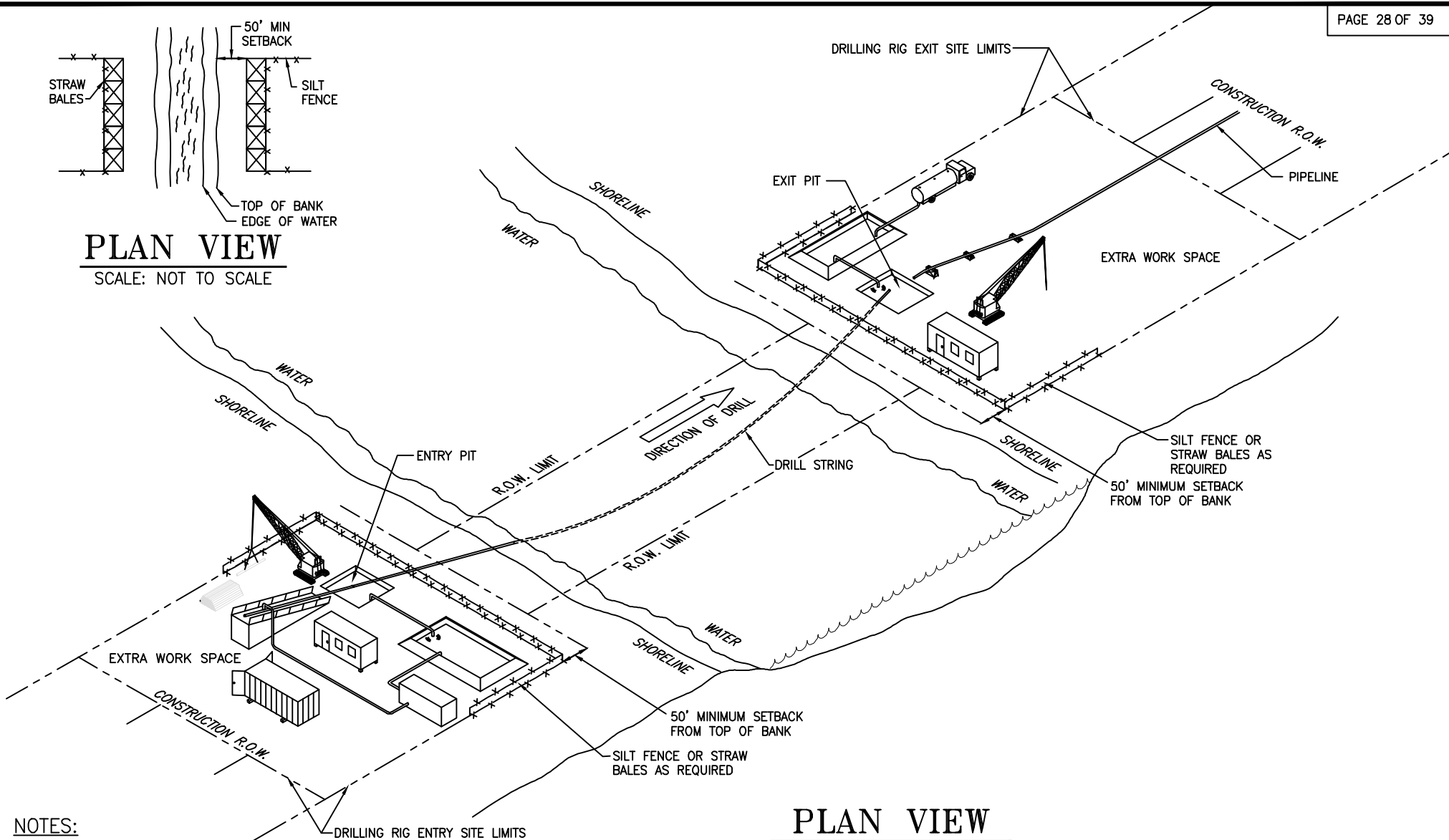
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PLAN VIEW

SCALE: NOT TO SCALE



PLAN VIEW

NOT TO SCALE

NOTES:

- 1. EXTRA WORK SPACE NOT LOCATED IN WETLANDS WHEN POSSIBLE.

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TYPICAL CONST. LAYOUT
PLs: Waterbody Crossing



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



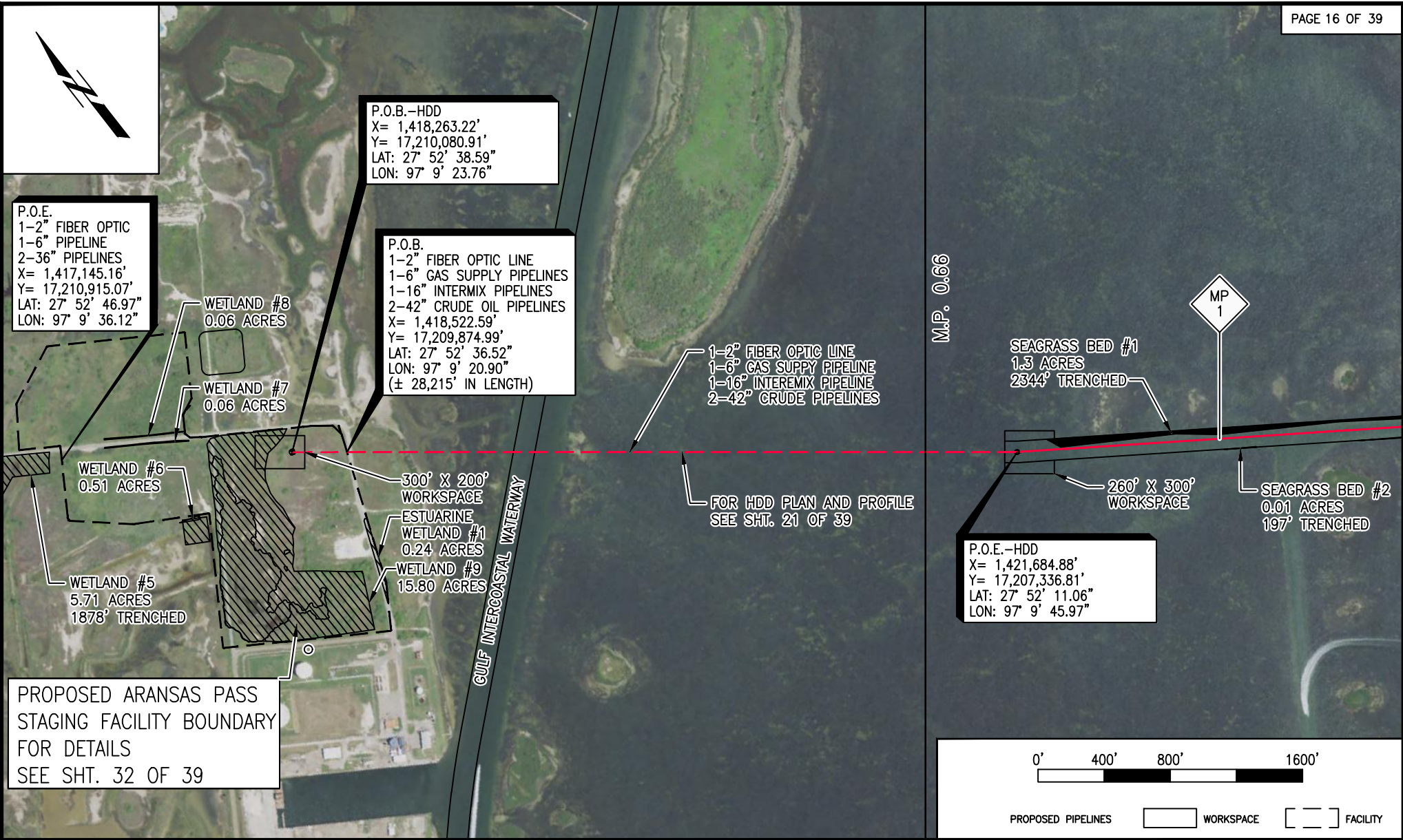
AXIS MIDSTREAM

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Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS

Prepared BY: Project Consulting Services, Inc.



PROPOSED ARANAS 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



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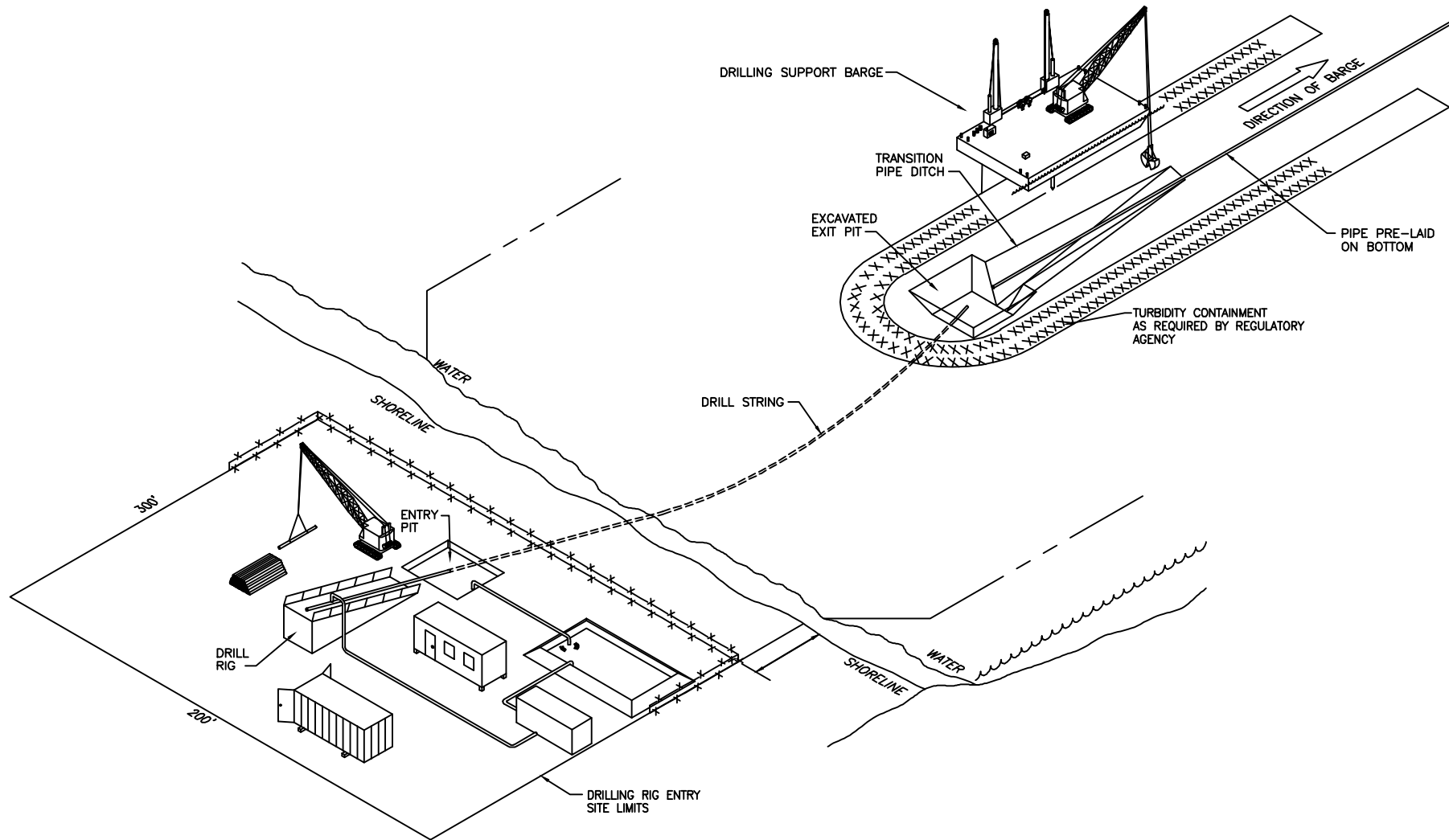
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HORIZONTAL DIRECTIONAL DRILLING LAND TO WATER

SCALE: N.T.S
CONDENSED FOR ILLUSTRATIVE PURPOSES

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TYPICAL CONST. LAYOUT
PLs: Land to Water



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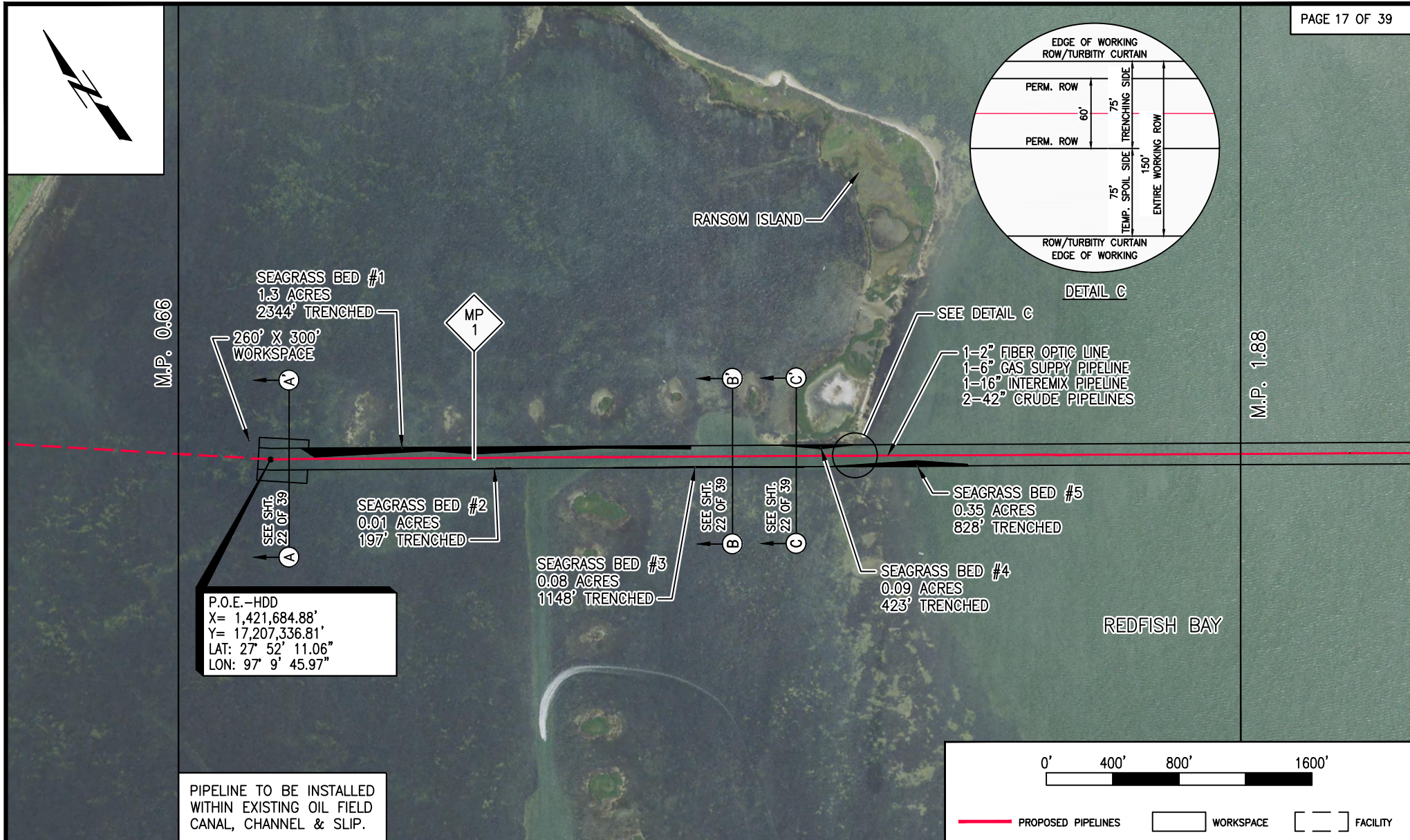
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P.O.E. - HDD
 X= 1,421,684.88'
 Y= 17,207,336.81'
 LAT: 27° 52' 11.06"
 LON: 97° 9' 45.97"

PIPELINE TO BE INSTALLED
 WITHIN EXISTING OIL FIELD
 CANAL, CHANNEL & SLIP.

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Date: 12/27/2018
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PLAN VIEW
 PLs: Aransas To Harbor Island



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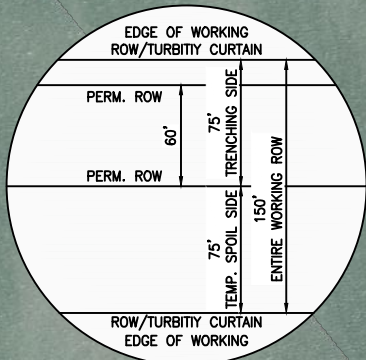


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DETAIL C

M.P. 1.88



SEE SH. 23 OF 39



- 1-2" FIBER OPTIC LINE
- 1-6" GAS SUPPLY PIPELINE
- 1-16" INTERMIX PIPELINE
- 2-42" CRUDE PIPELINES

SEE DETAIL C

SEAGRASS BED #6
2.3 ACRES
755' TRENCHED



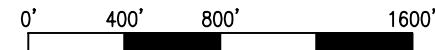
SEE SH. 23 OF 39



M.P. 3.09

REDFISH BAY

PIPELINE TO BE INSTALLED WITHIN EXISTING OIL FIELD CANAL, CHANNEL & SLIP.



PROPOSED PIPELINES WORKSPACE FACILITY

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PLAN VIEW

PLs: Aransas To Harbor Island



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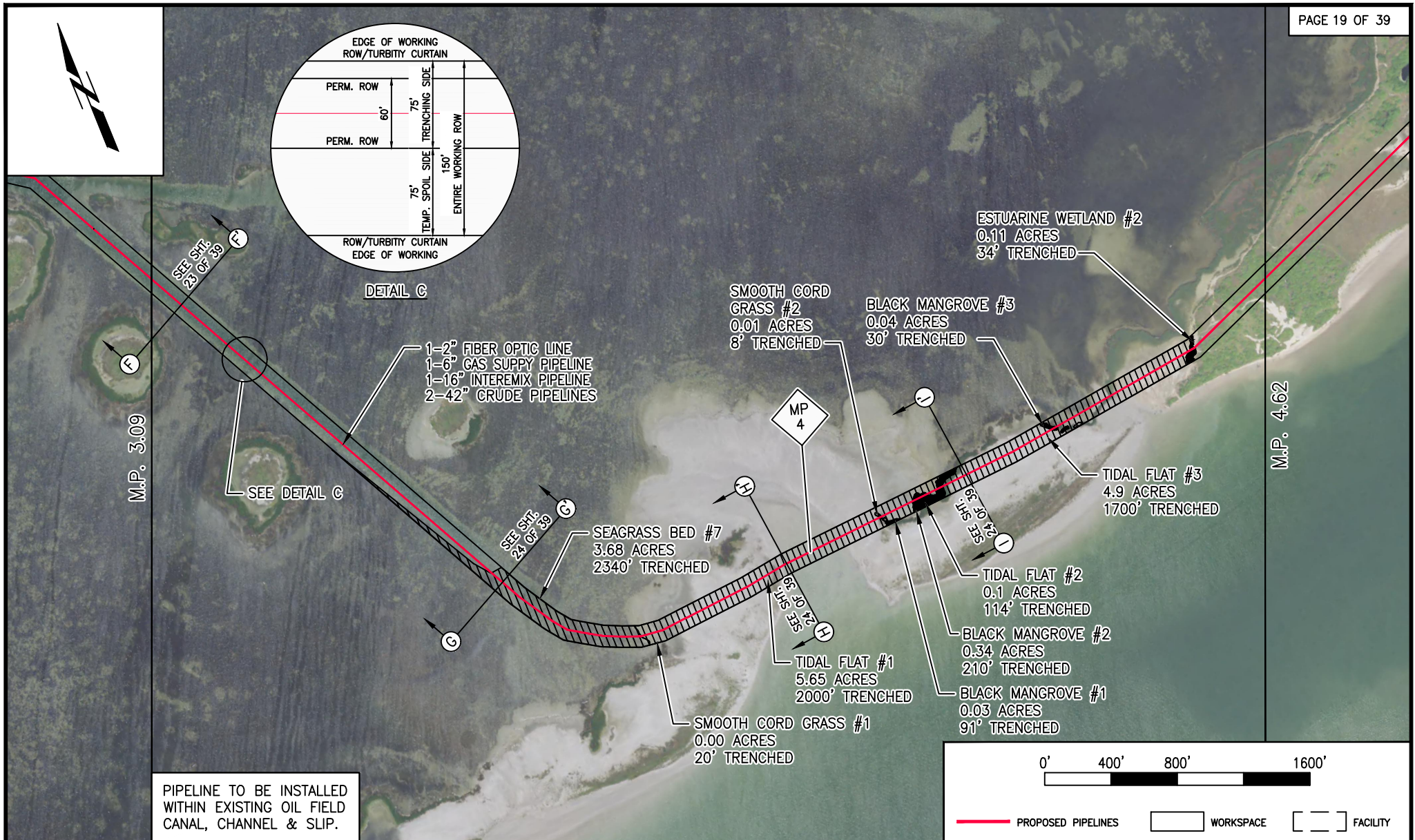
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MIDWAY to HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS

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PIPELINE TO BE INSTALLED WITHIN EXISTING OIL FIELD CANAL, CHANNEL & SLIP.

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PLs: Aransas To Harbor Island



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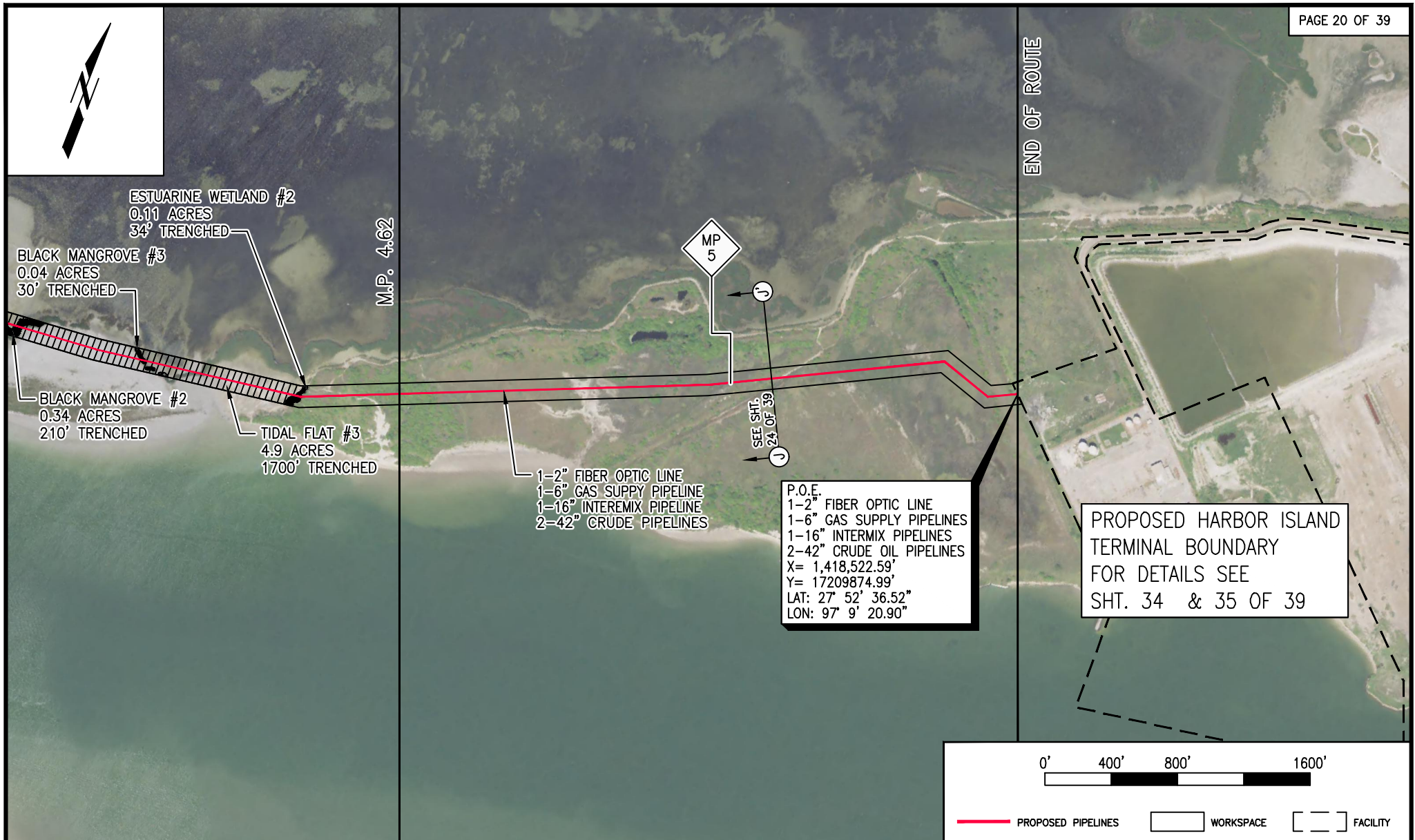


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ESTUARINE WETLAND #2
0.11 ACRES
34' TRENCHED

BLACK MANGROVE #3
0.04 ACRES
30' TRENCHED

BLACK MANGROVE #2
0.34 ACRES
210' TRENCHED

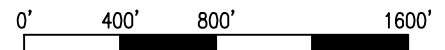
TIDAL FLAT #3
4.9 ACRES
1700' TRENCHED

M.P. 4.62

1-2" FIBER OPTIC LINE
1-6" GAS SUPPLY PIPELINE
1-16" INTERMIX PIPELINE
2-42" CRUDE PIPELINES

P.O.E.
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= 17209874.99'
LAT: 27° 52' 36.52"
LON: 97° 9' 20.90"

PROPOSED HARBOR ISLAND
TERMINAL BOUNDARY
FOR DETAILS SEE
SHT. 34 & 35 OF 39



— PROPOSED PIPELINES □ WORKSPACE [- -] FACILITY

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PLAN VIEW
PLs: Aransas to Harbor Island



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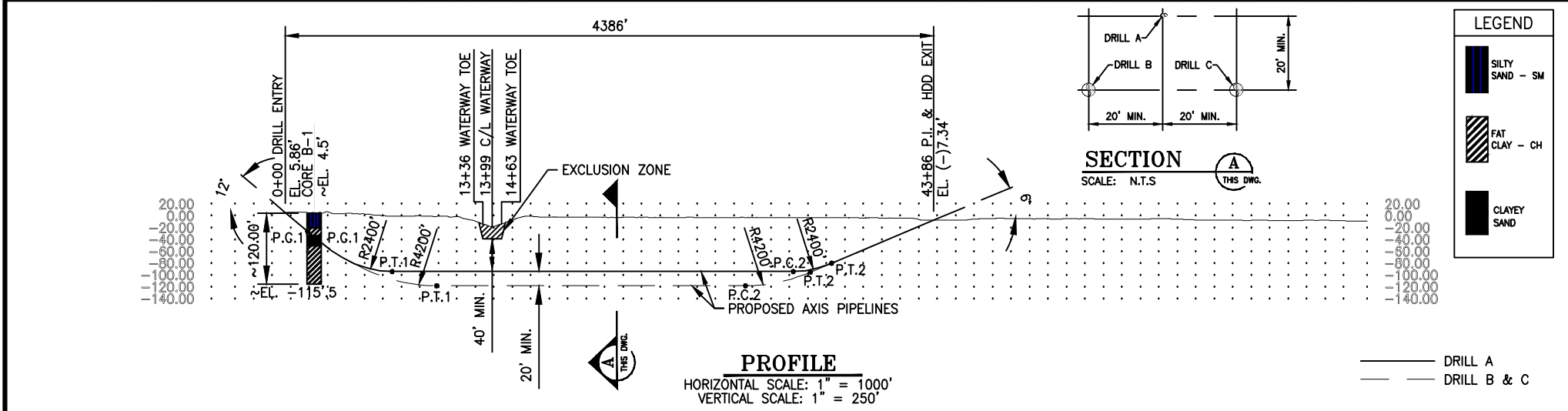
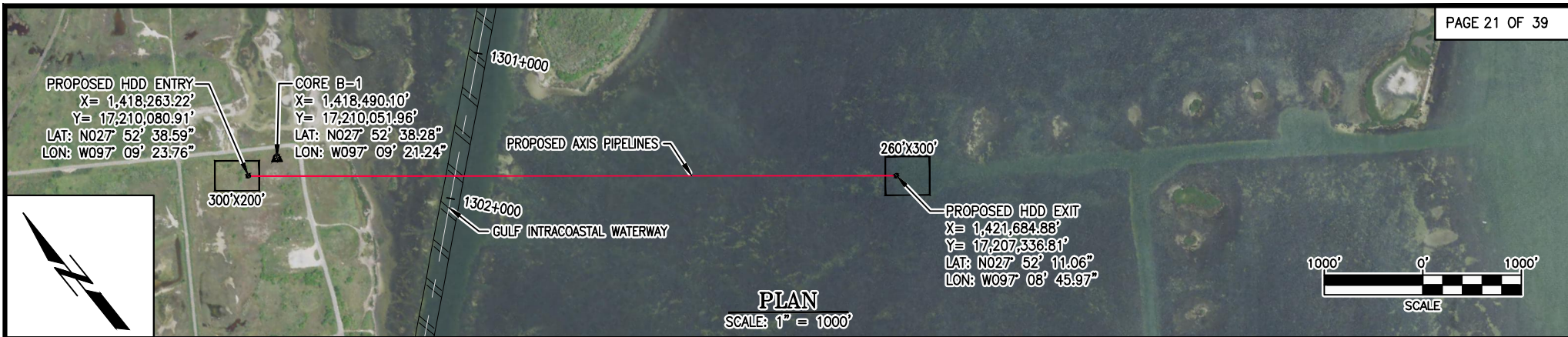
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SPECIFICATIONS:

- CARRIER PIPE:**
 DRILL A BUNDLE
 16.000" O.D. *
 6.625" O.D. *
 2" FIBER OPTIC CABLE
- DRILL B**
 42.000" O.D. *
- DRILL C**
 42.000" O.D. *
- * PIPE WALL THICKNESS AND COATING TO BE DETERMINED.

GENERAL NOTES:

- GRID PROJECTION BASED UPON TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- 3 PROPOSED HDD WILL BE INSTALLED IN THE EASEMENT. DRILL A WILL CONSIST OF A BUNDLED ON 16.000" O.D., ONE 6.625" O.D. AND 2" O.D. DRILL B WILL BE A 42.000" O.D. PIPELINE AND DRILL C WILL BE A 42.000" O.D. PIPELINE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE ORDER OF THE DRILLS.
- THE ENGINEER'S SEAL AFFIXED TO THIS DRAWING REPRESENTS THE ENGINEERING DESIGN OF THE 3 HDD PROFILES SHOWN ON THIS DRAWING. THE DESIGN IS BASED UPON THE SURVEY INFORMATION PROVIDED BY GULLETT & ASSOCIATES DISPLAYED HEREIN. THE ISSUANCE OF THIS DRAWING IS NOT INTENDED AS A SURVEYING DOCUMENT AND SHOULD NOT BE USED FOR ESTABLISHMENT OR RECORD OF BOUNDARY, EASEMENTS OR ANY OTHER SURVEYING PURPOSE.

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PLAN PROFILE
 PLs: GIWW HDD



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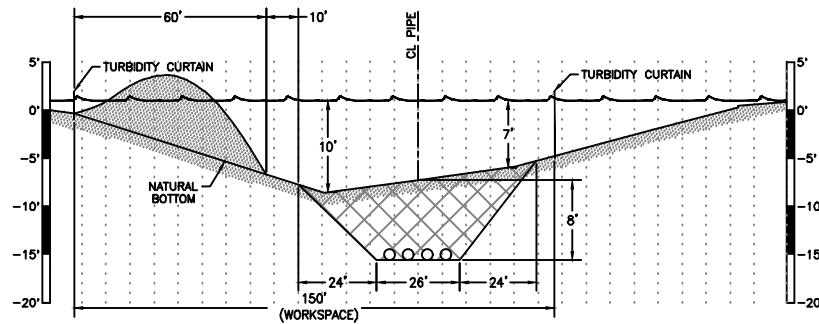
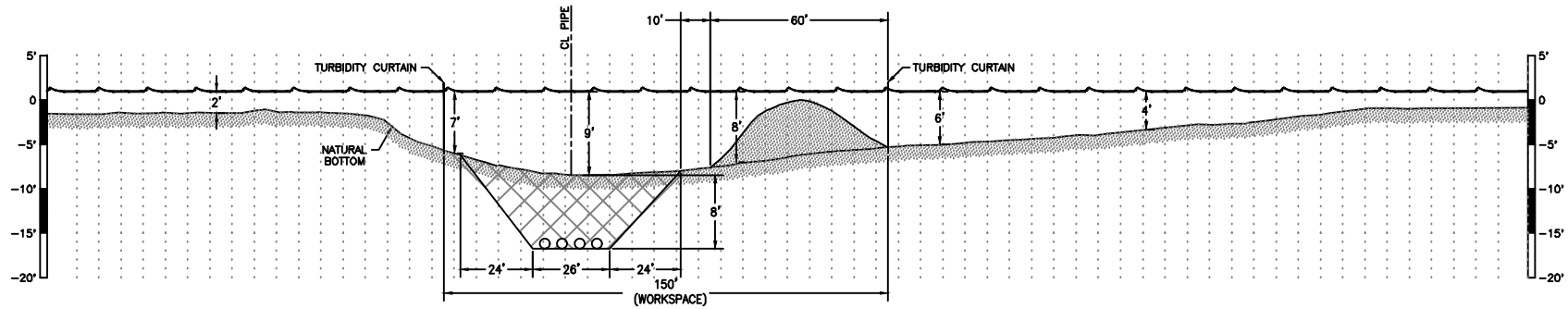
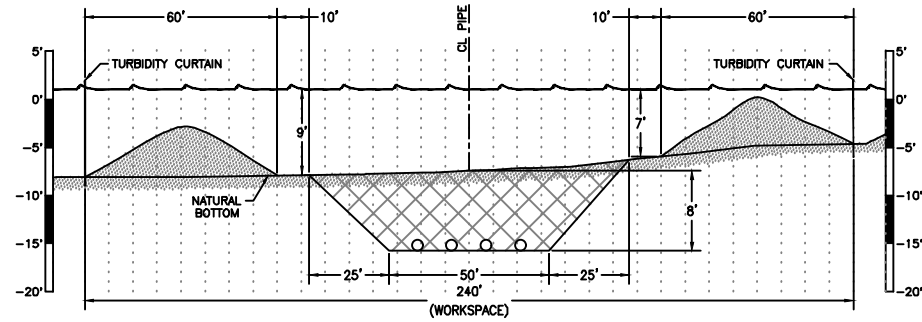


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 Proposed Pipelines & Facilities
 MIDWAY to HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS

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HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=20'

NOTE:
TRENCH SIDE SLOPES ARE 3:1.

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CROSS-SECTIONS
PLs: Aransas Fac. to Harbor Island



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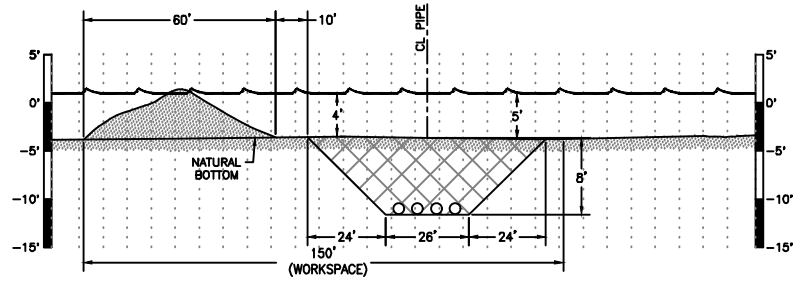
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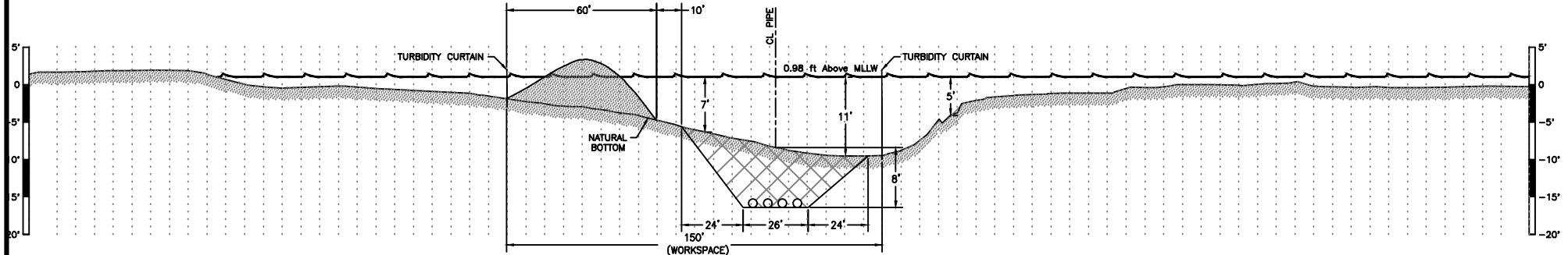
Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT

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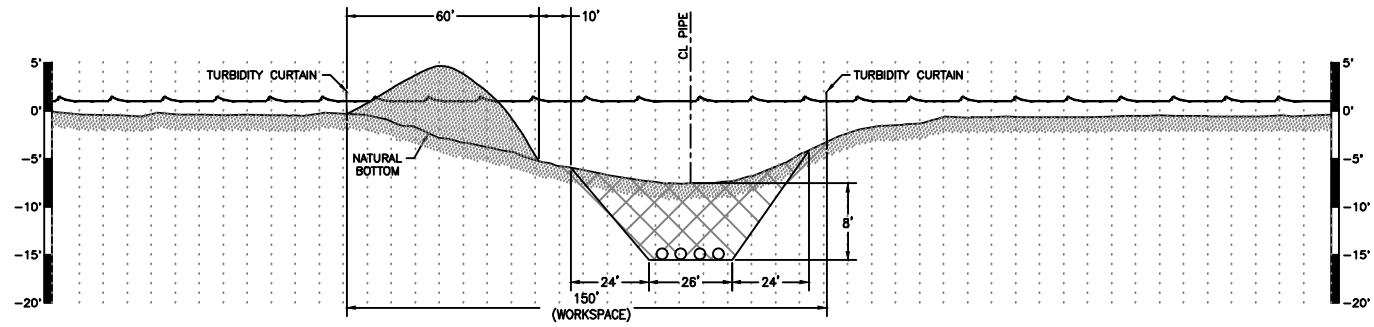
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SECTION D-D'



SECTION E-E'



SECTION F-F'

HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=20'

NOTE:
TRENCH SIDE SLOPES ARE 3:1.

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CROSS-SECTIONS
PLs: Aransas Fac. to Harbor Island



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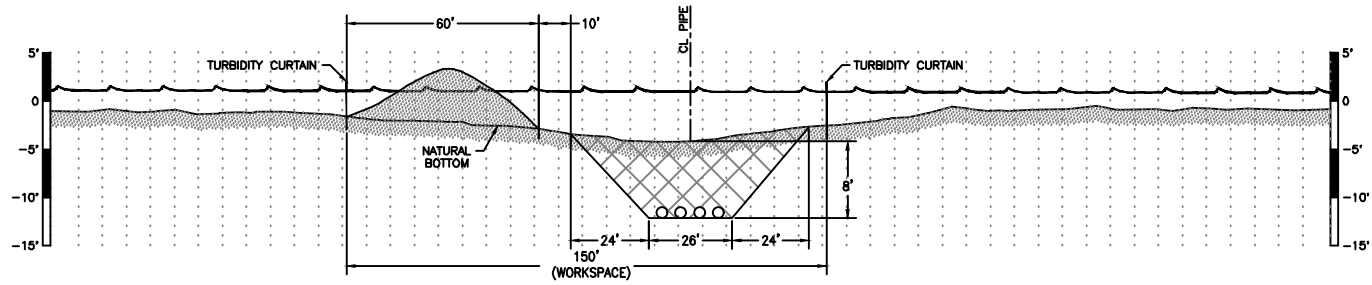


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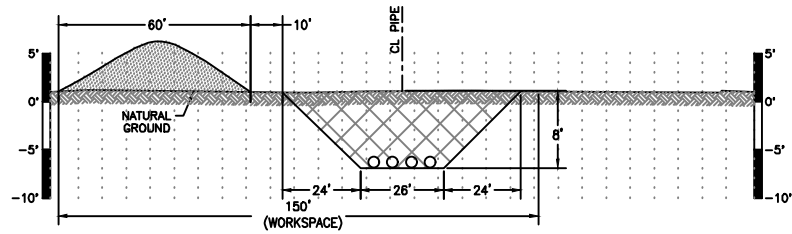
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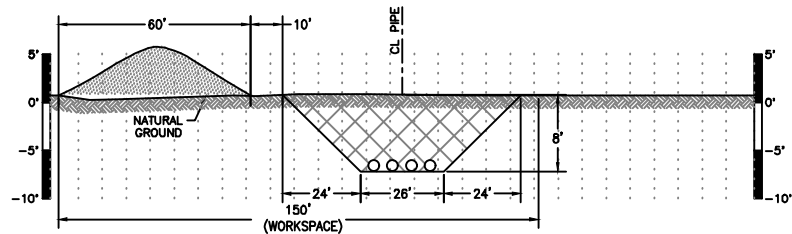
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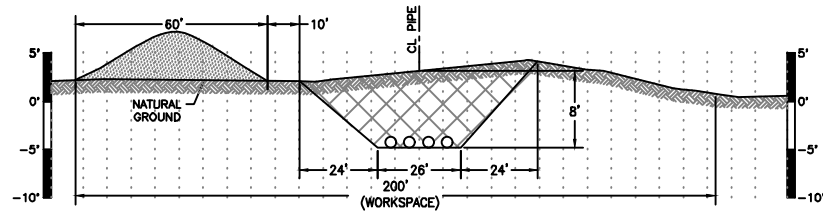
SECTION G-G'



SECTION H-H'



SECTION I-I'



SECTION J-J'

HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=20'

NOTE:
TRENCH SIDE SLOPES ARE 3:1.

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CROSS-SECTIONS
PLs: Aransas Fac. to Harbor Island



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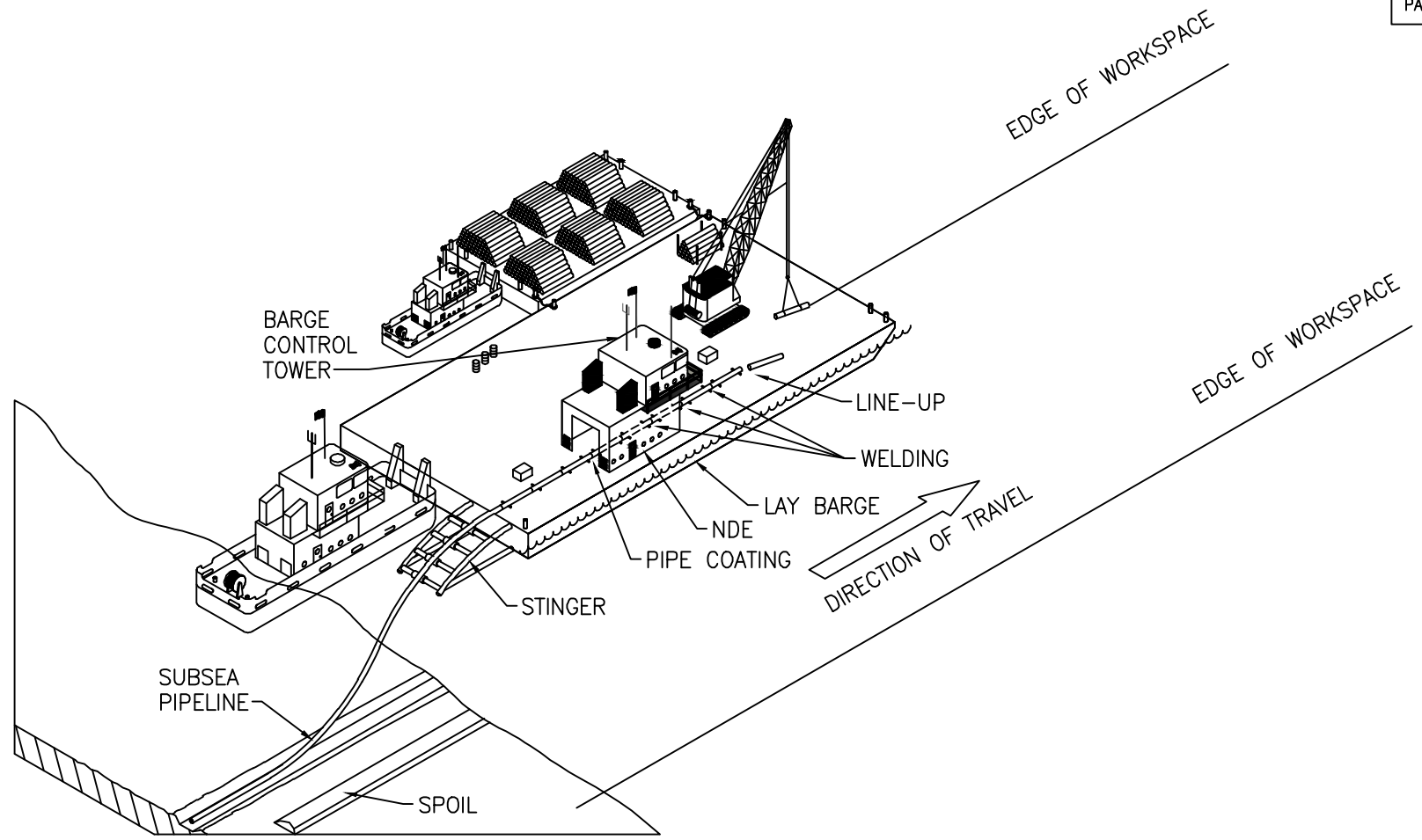
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SAN PATRICIO & NUECES COUNTIES, TEXAS

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TYPICAL PIPELINE LAY BARGE SPREAD

SCALE
CONDENSED FOR ILLUSTRATIVE PURPOSES

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TYPICAL CONST. LAYOUT
PLs: Shallow Water Lay Barge



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PLAN VIEW
Midway Tank Farm



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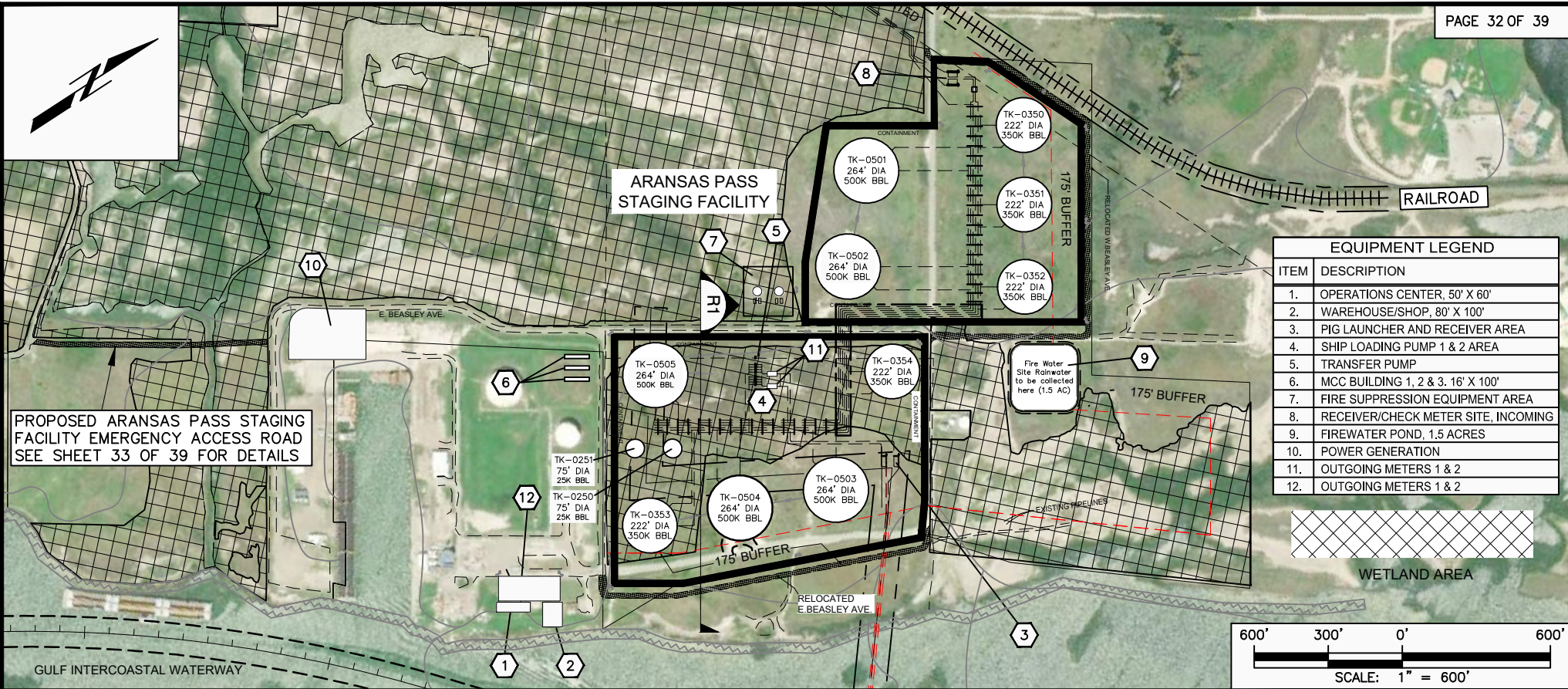
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Proposed Pipelines & Facilities

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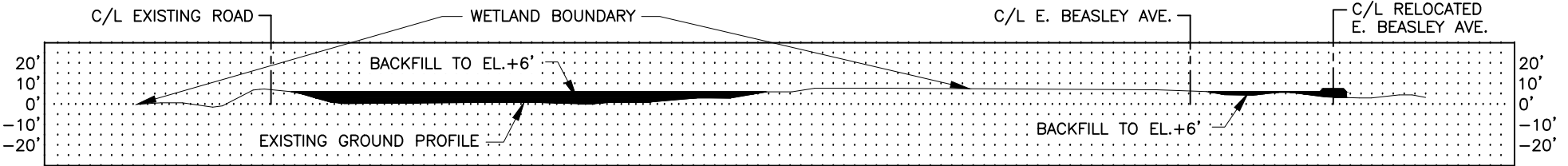
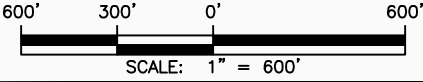
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PROPOSED ARKANSAS PASS STAGING FACILITY EMERGENCY ACCESS ROAD
SEE SHEET 33 OF 39 FOR DETAILS

EQUIPMENT LEGEND	
ITEM	DESCRIPTION
1.	OPERATIONS CENTER, 50' X 60'
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'

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PLAN VIEW/CROSS-SECTION
Arkansas Pass Staging Facility



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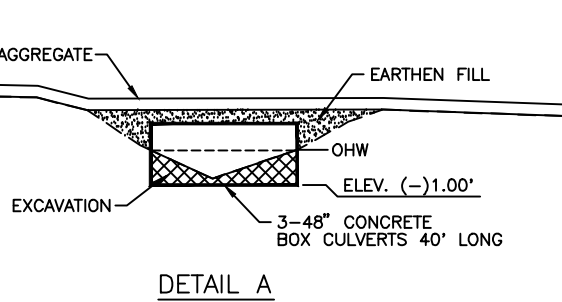
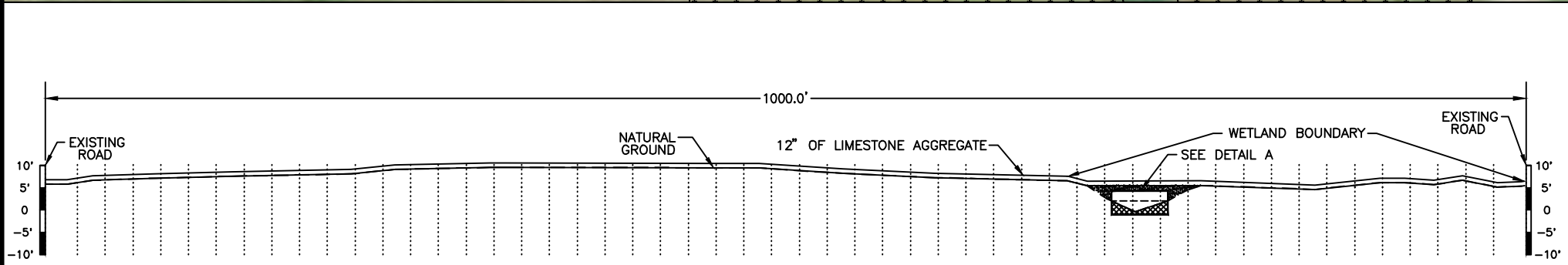
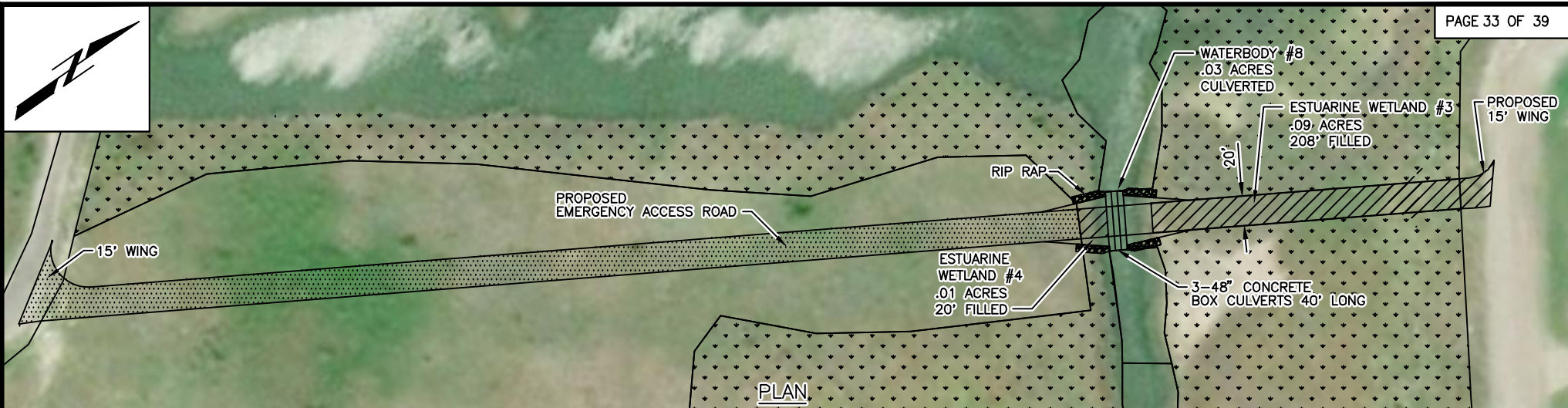
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MIDWAY to HARBOR ISLAND PROJECT

SAN PATRICIO & NUECES COUNTIES, TEXAS

Prepared BY: Project Consulting Services, Inc.



NOTES:

LIMESTONE AGGREGATE (EAST SIDE)	195 CU. YDS.
LIMESTONE AGGREGATE (IN WETLANDS)	540 CU. YDS.
EARTHEN FILL FOR ROAD	163 CU. YDS.
RIP-RAP	17 CU. YDS.
EXCAVATION FOR CULVERTS	102 CU. YDS.

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

PLAN VIEW/CROSS SECTION
ACCESS ROAD - ARANSAS FAC.



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



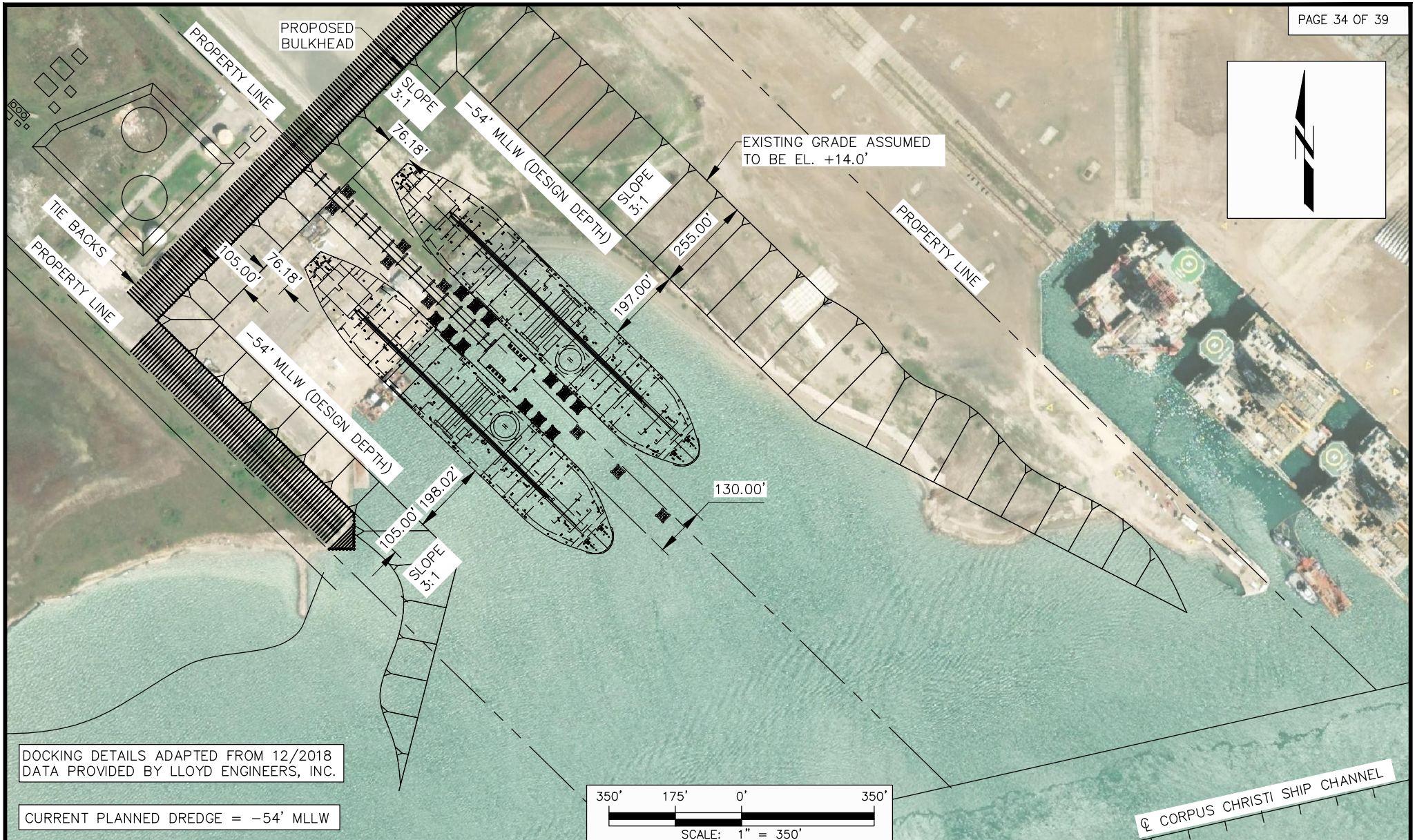
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AXIS MIDSTREAM HOLDINGS, LLC

Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT

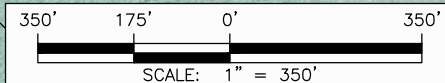
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DOCKING DETAILS ADAPTED FROM 12/2018 DATA PROVIDED BY LLOYD ENGINEERS, INC.

CURRENT PLANNED DREDGE = -54' MLLW



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PLAN VIEW
Harbor Island Marine Terminal

AXIS MIDSTREAM HOLDINGS, LLC
Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
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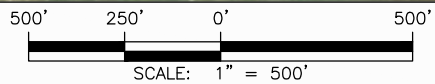
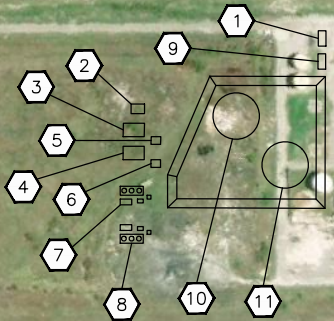
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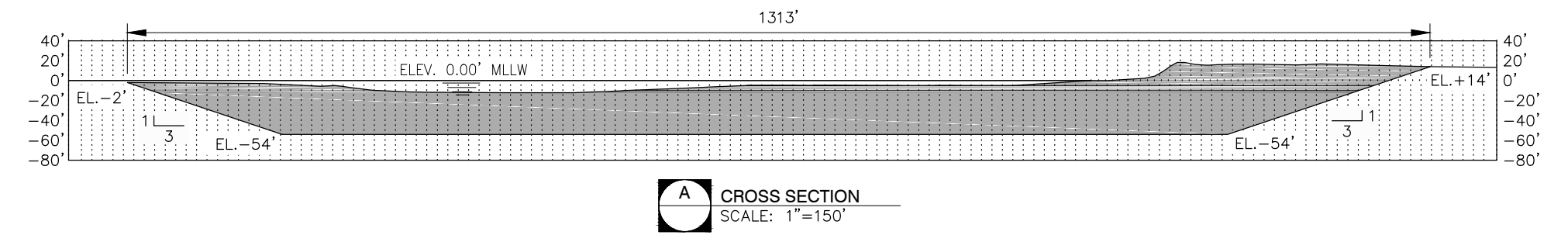
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CROSS HATCHED AREA DEPICTS EXCAVATION BOUNDARY

EQUIPMENT LEGEND	
ITEM	DESCRIPTION
1.	OFFICE
2.	16" PIG LAUNCHER/RECEIVER
3.	42" PIG LAUNCHER/RECEIVER #1
4.	42" PIG LAUNCHER/RECEIVER #2
5.	METER SKID #1
6.	METER SKID #2
7.	COMBUSTOR UNIT #1
8.	COMBUSTOR UNIT #2
9.	CONTROL BUILDING
10.	80K BBL. TANK
11.	80K BBL. TANK



BATHYMETRIC CONTOUR DATA ADAPTED FROM NAISMITH MARINE SERVICES DATA 01/2018



A CROSS SECTION
SCALE: 1" = 150'

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PLAN VIEW/CROSS SECTION
Harbor Island Marine Terminal



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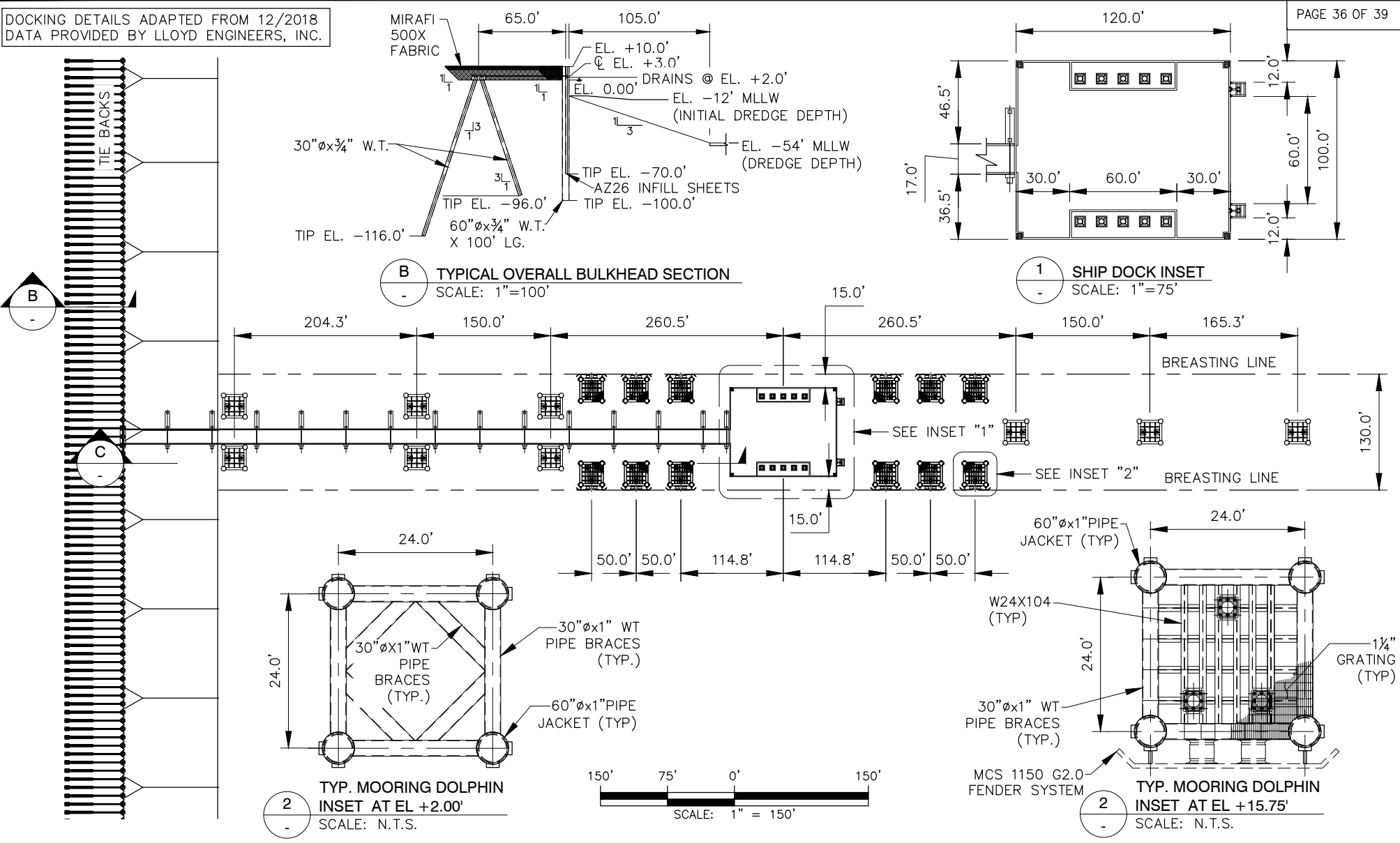
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Proposed Pipelines & Facilities
MIDWAY to HARBOR ISLAND PROJECT
SAN PATRICIO & NUECES COUNTIES, TEXAS
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PLAN VIEW/CROSS SECTIONS
Harbor Island Marine Terminal

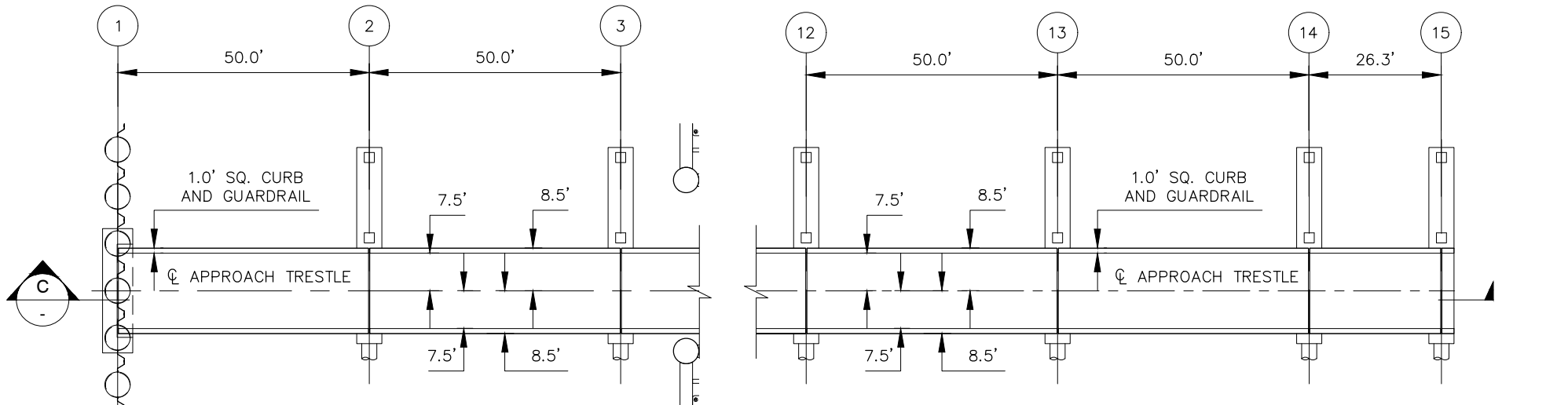
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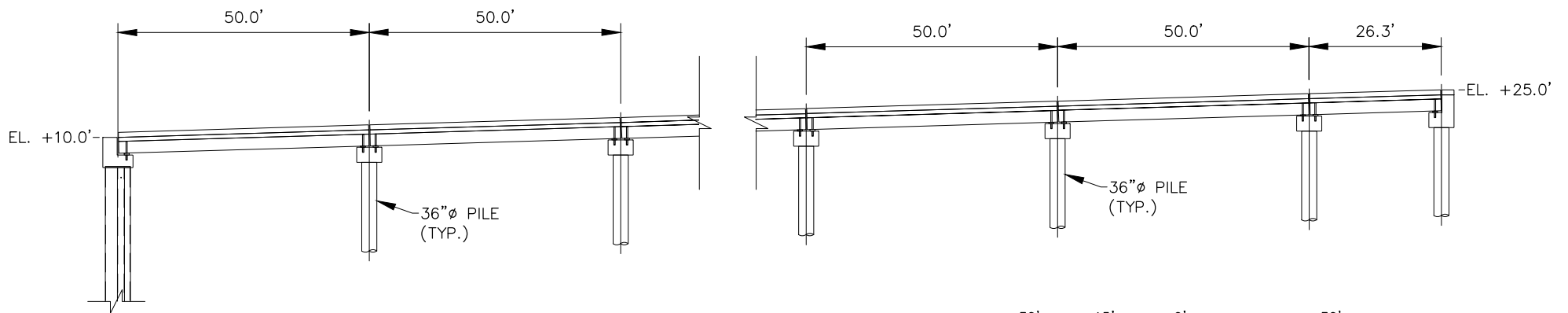
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1 APPROACH AND PIPE TRESTLE ENLARGED PLAN
SCALE: 1"=30'-0"



C APPROACH TRESTLE SECTION
SCALE: 1"=30'-0"

DOCKING DETAILS ADAPTED FROM 12/2018 DATA PROVIDED BY LLOYD ENGINEERS, INC.

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

PLAN VIEW/CROSS SECTIONS
Harbor Island Marine Terminal



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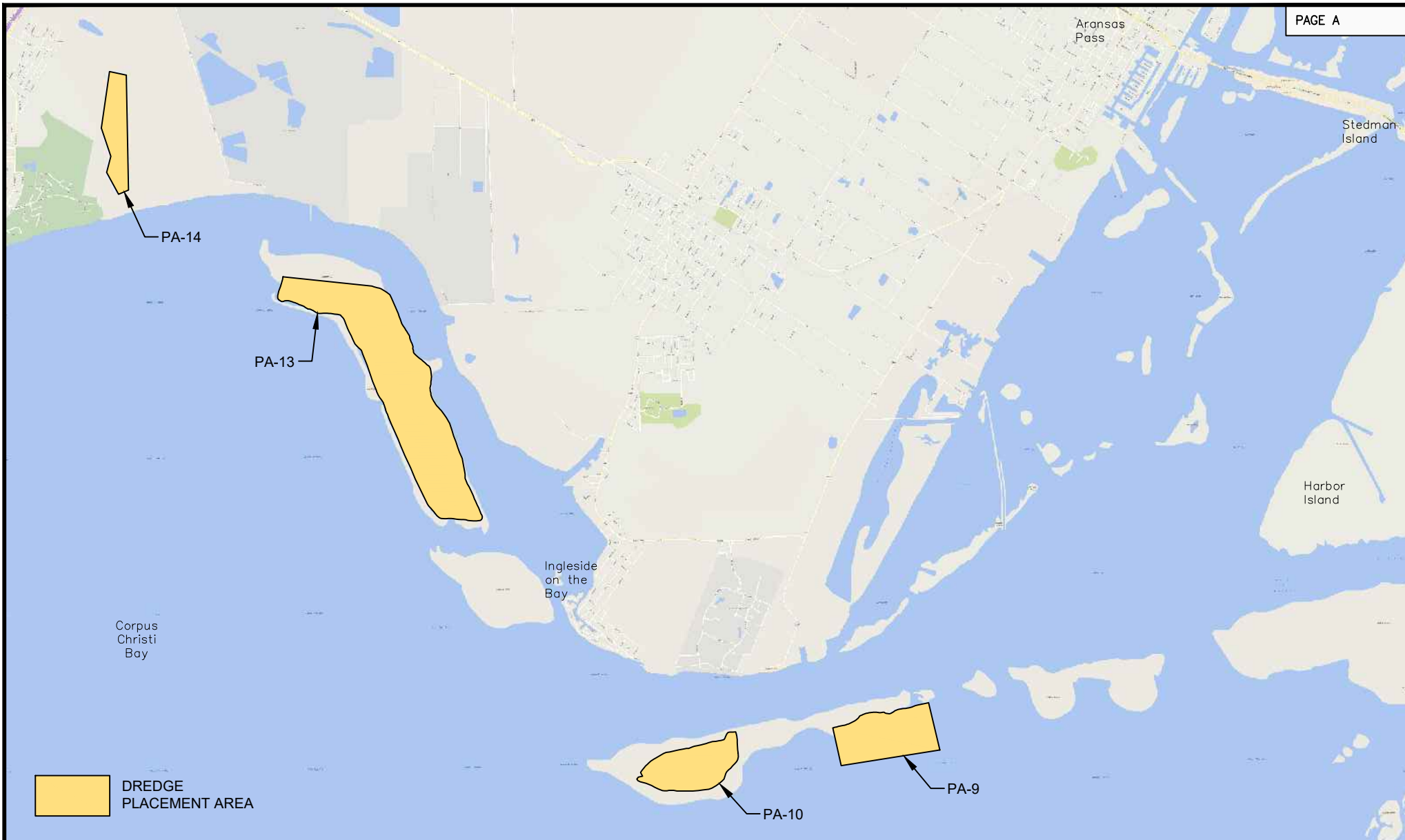
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MIDWAY to HARBOR ISLAND PROJECT

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Date: 5/3/2019

PROPOSED ALTERNATE DREDGE PLACEMENT AREAS



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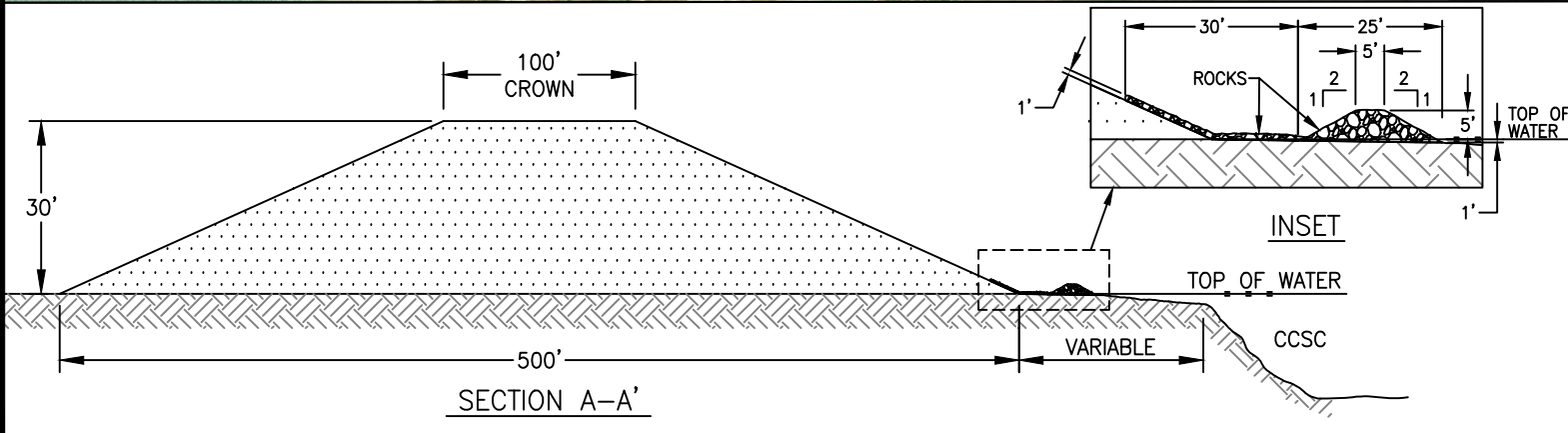
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NOTE:
 THE DISPOSAL SITE FOR THE EXCAVATED MATERIAL FROM THE PROPOSED HARBOR ISLAND MARINE TERMINAL WILL BE STRATEGICALLY PLACED ALONG THE NORTHERN BANKLINE OF THE CORPUS CHRISTI SHIP CHANNEL (CCSC), AS DETAILED. AS A CONCEPTUAL COMPENSATORY MITIGATION 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.

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

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



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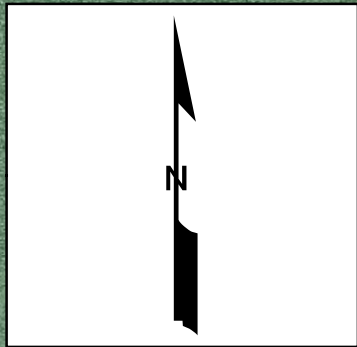
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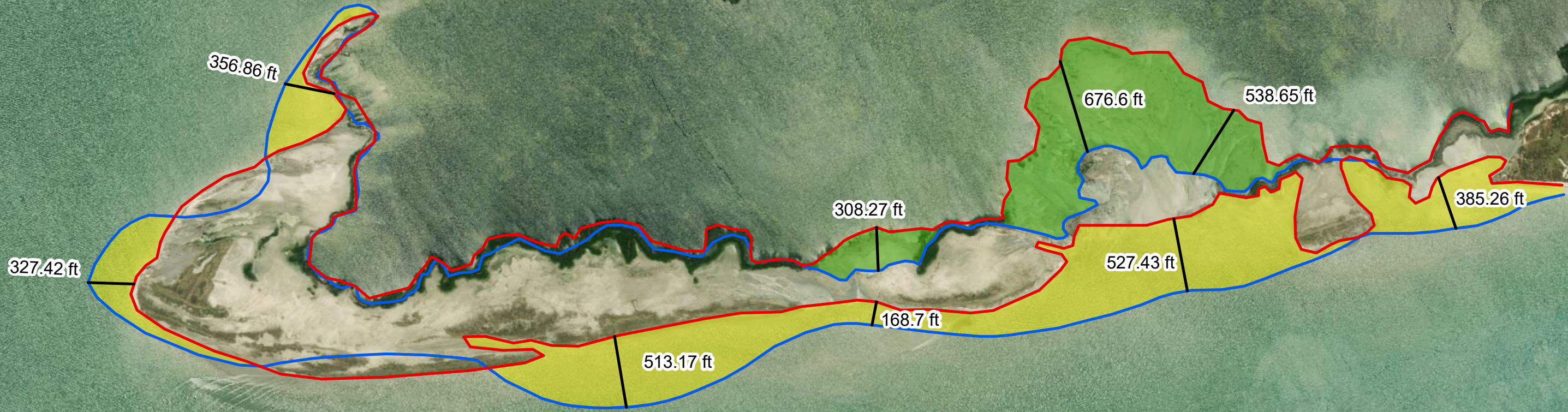
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MIDWAY to HARBOR ISLAND PROJECT

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BLACK LINES MEASURE LENGTH OF SHORELINE AND SEAGRASS CHANGE



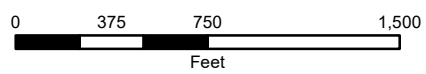
Shorelines

- 2009
- 2017
- Seagrass Loss 36.85 acres
- Shoreline Loss 76.39 acres

1 inch = 750 feet

Imagery Source: 2017 NAIP

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SEAGRASS AND SHORELINE LOSS AT HARBOR ISLAND



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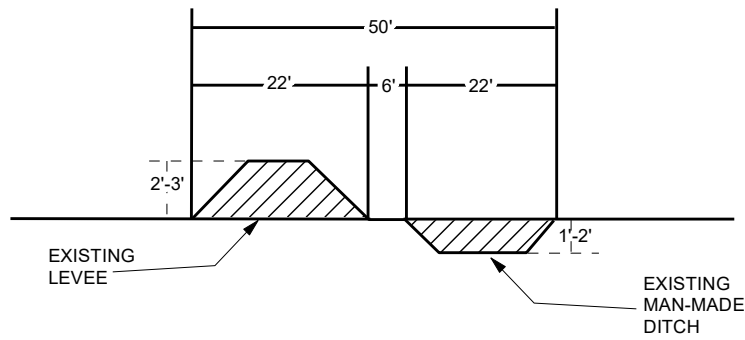
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Area Restored (2.0 Acres)
 Positive Affected Area (8.7 Acres)



TYPICAL CROSS-SECTION
NOT TO SCALE

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

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ARANSAS PASS FACILITY TIDAL WETLAND RESTORATION



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Prepared By: M.JF
 Checked By: RG
 Approved By: RL
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