



FM 2004 at Chocolate Bayou
Bridge Replacement
Brazoria County, Texas

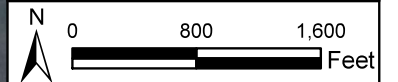
CSJ 2523-02-074

LEGEND

 Project Area (70.77 ac)

Figure 2

2022 Aerial Map



NOTES

- Centroid Coordinates: 29.212412, -95.207585
- NearMap Aerial Date: 12/23/2022



FM 2004 at Chocolate Bayou
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Brazoria County, Texas

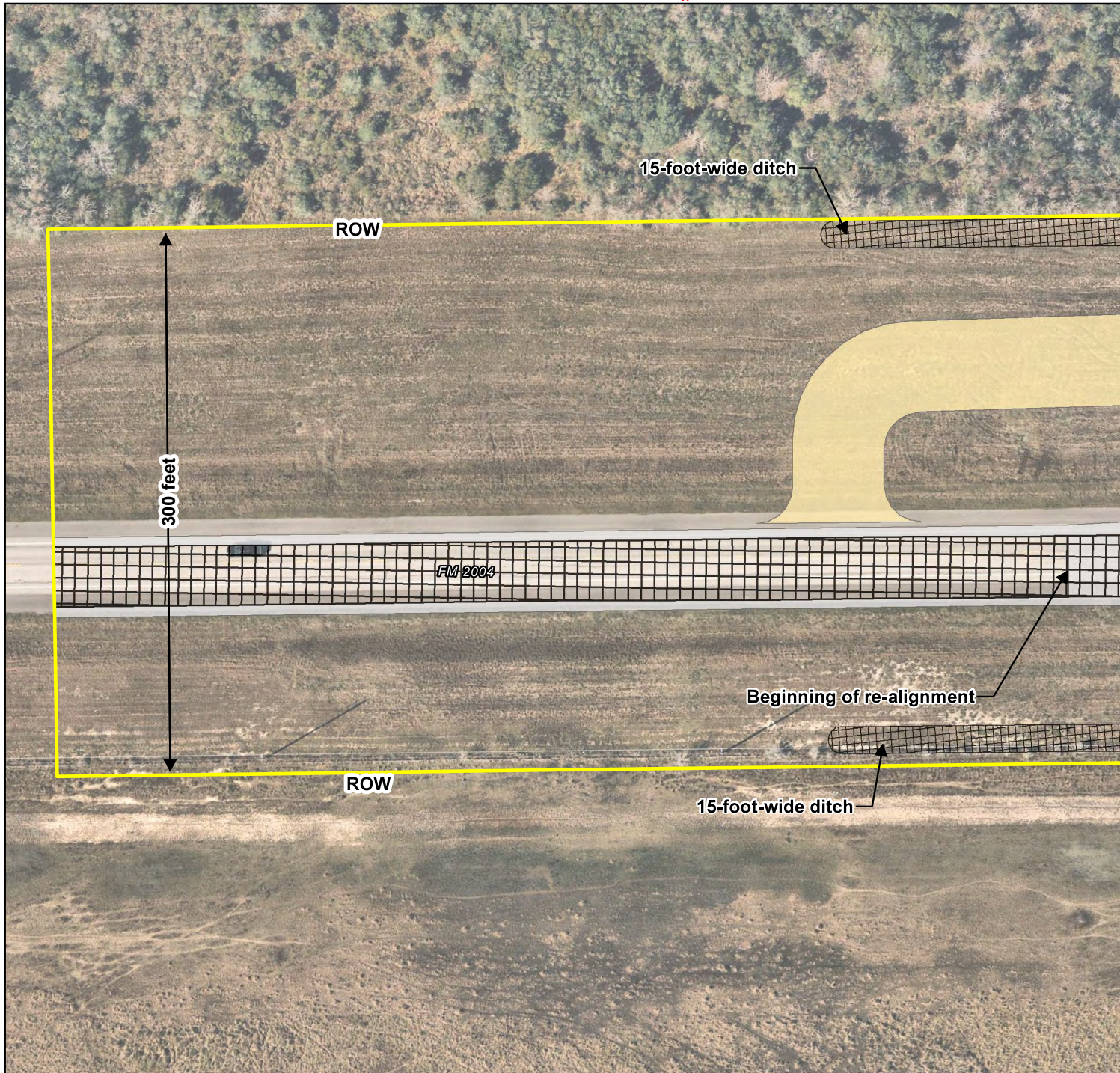
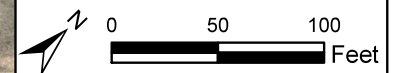
CSJ 2523-02-074

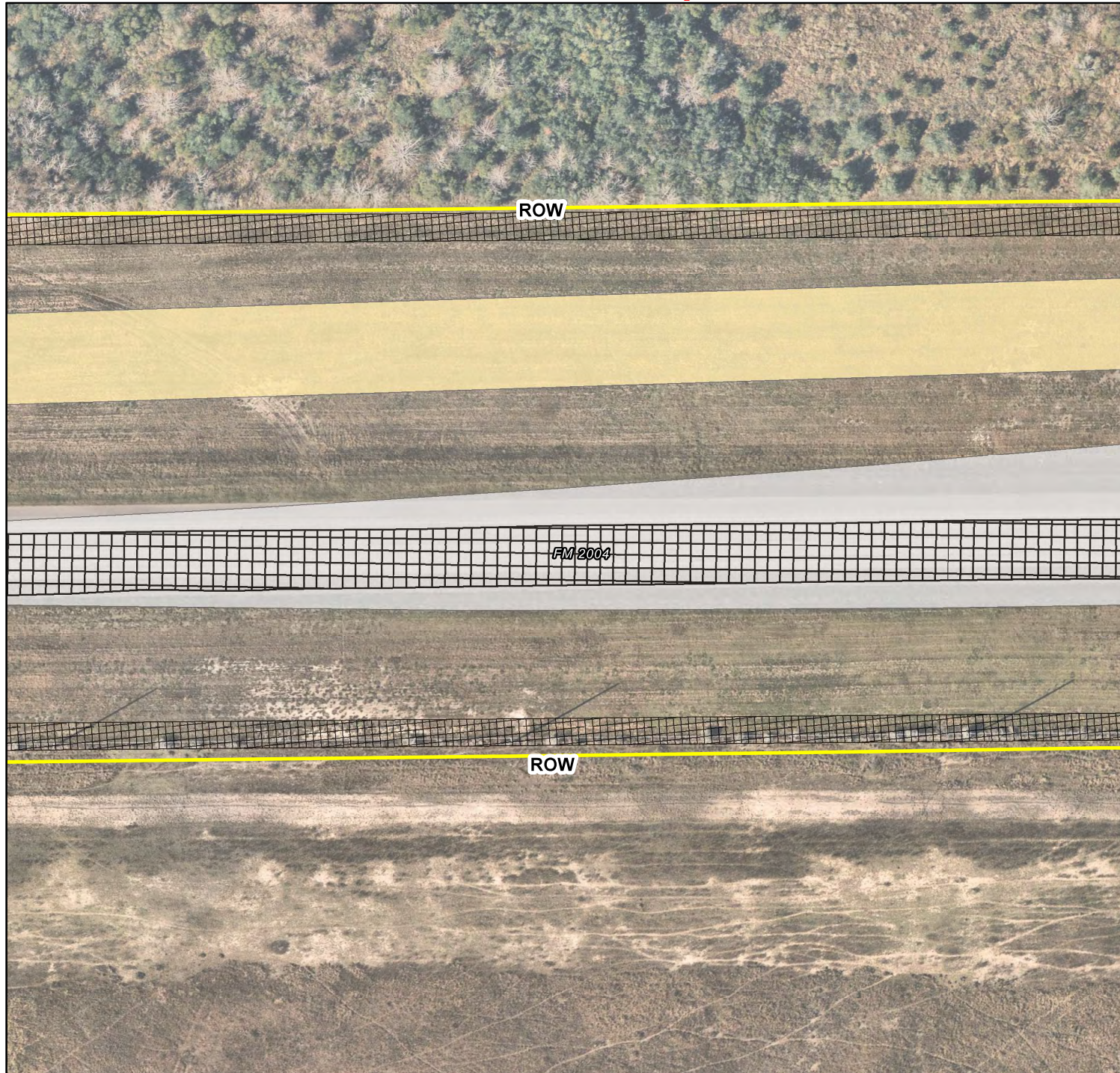
LEGEND

- Project Area (70.77 ac)
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road

Figure 4a

Bridge Design Aerial Map





FM 2004 at Chocolate Bayou
Bridge Replacement
Brazoria County, Texas

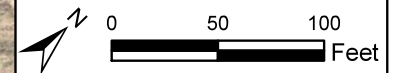
CSJ 2523-02-074

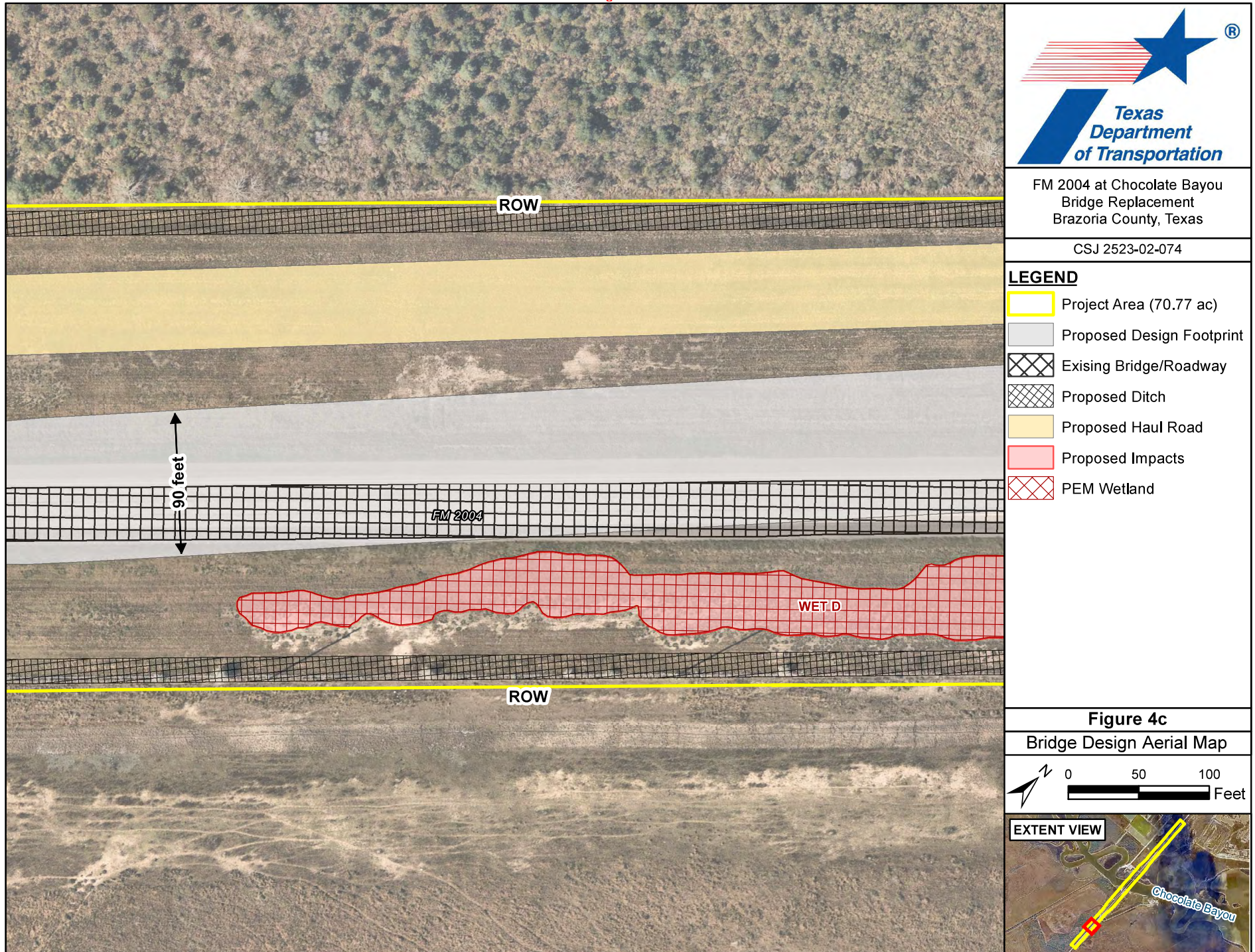
LEGEND

- Project Area (70.77 ac)
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road

Figure 4b

Bridge Design Aerial Map







FM 2004 at Chocolate Bayou
Bridge Replacement
Brazoria County, Texas

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LEGEND








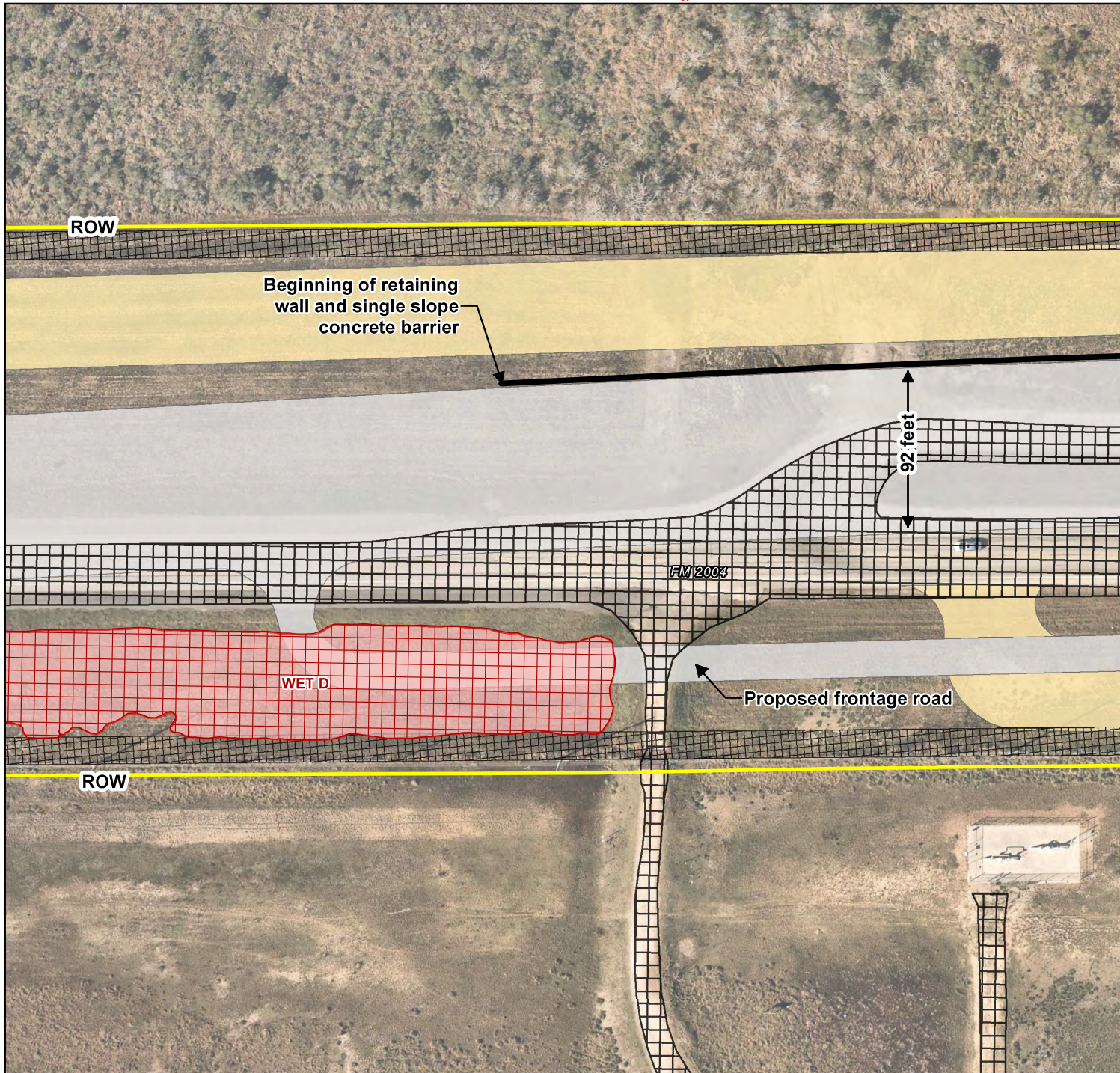
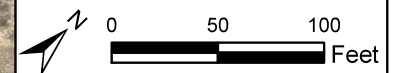
-  Project Area (70.77 ac)
-  Proposed Design Footprint
-  Existing Bridge/Roadway
-  Proposed Ditch
-  Proposed Haul Road
-  Proposed Impacts
-  PEM Wetland

Figure 4d

Bridge Design Aerial Map





FM 2004 at Chocolate Bayou
Bridge Replacement
Brazoria County, Texas

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LEGEND

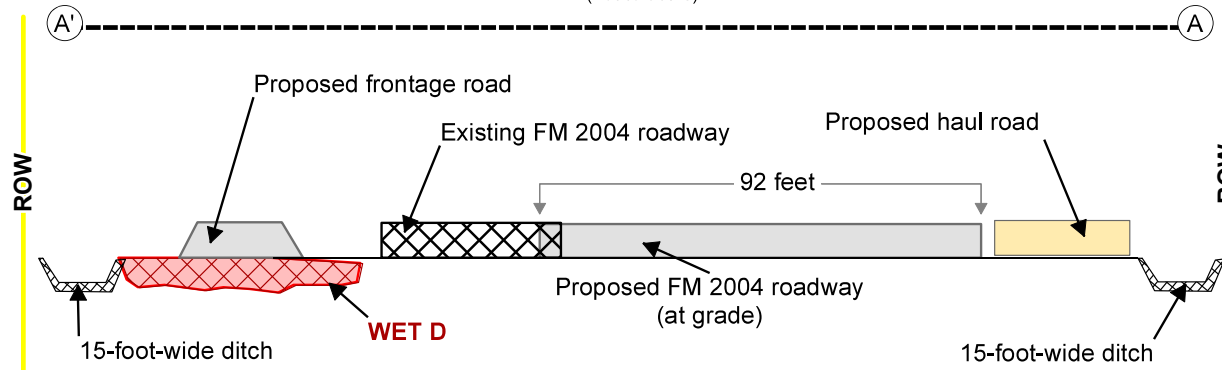
- Project Area (70.77 ac)
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- PEM Wetland
- Proposed Impacts

Figure 6a

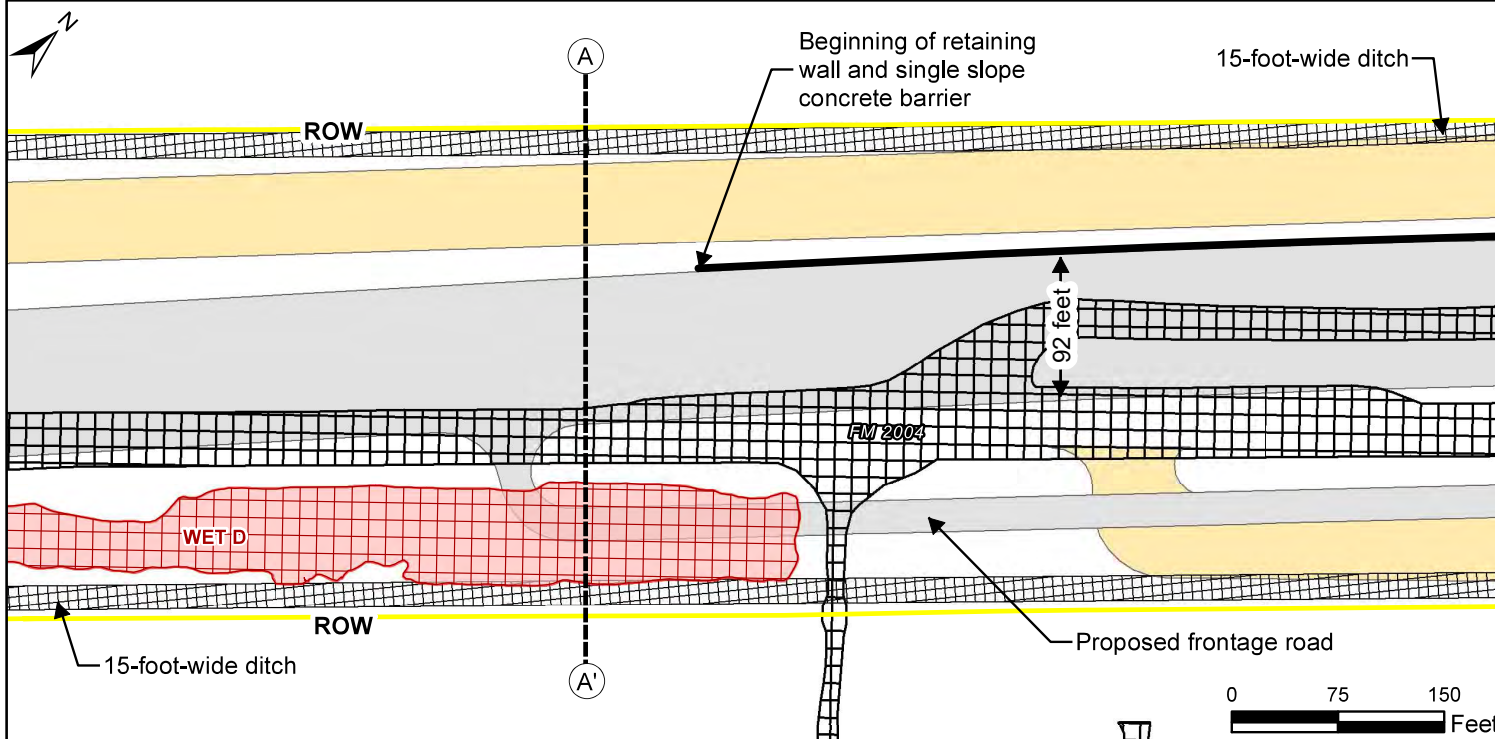
Plan View and
Cross-Section Map

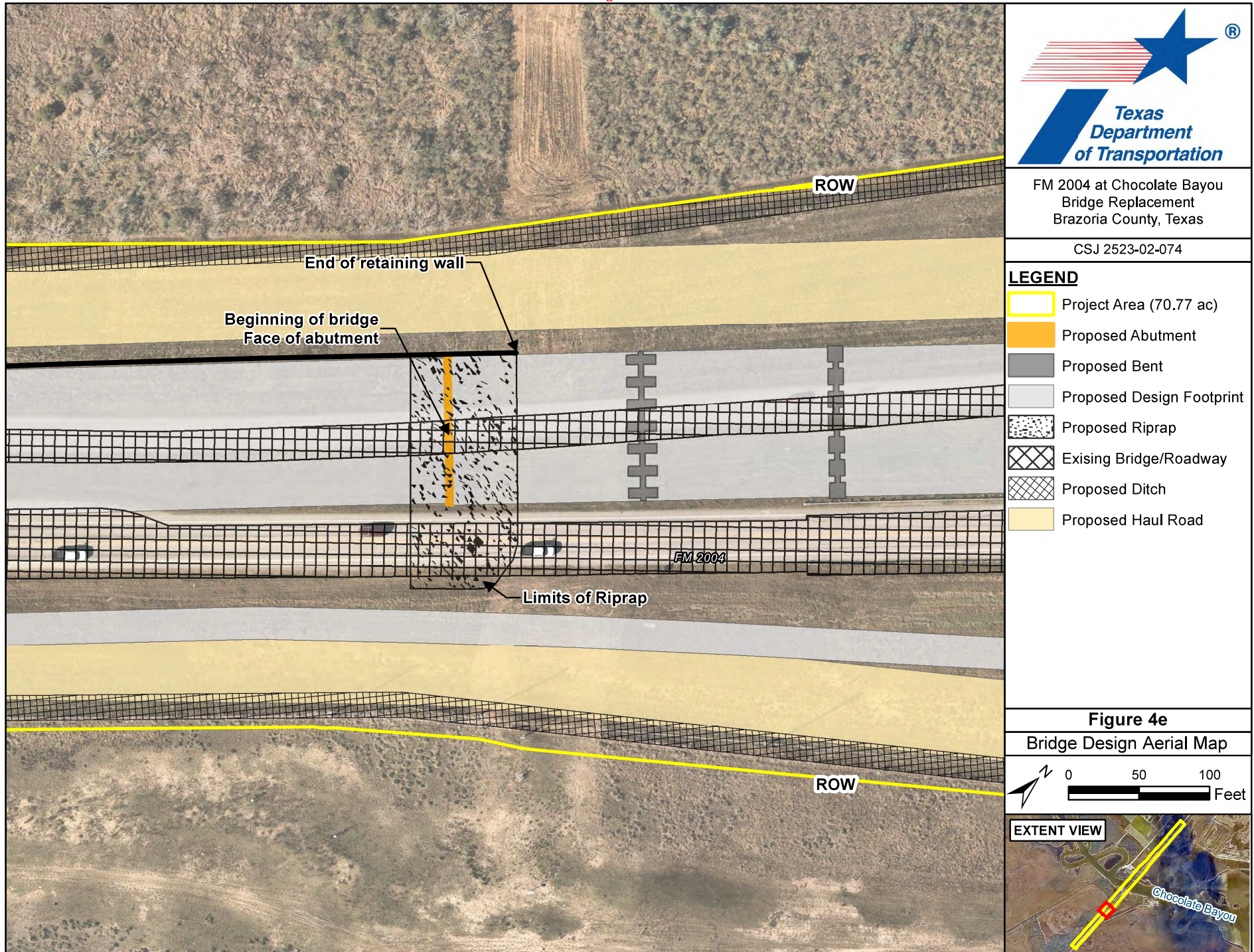


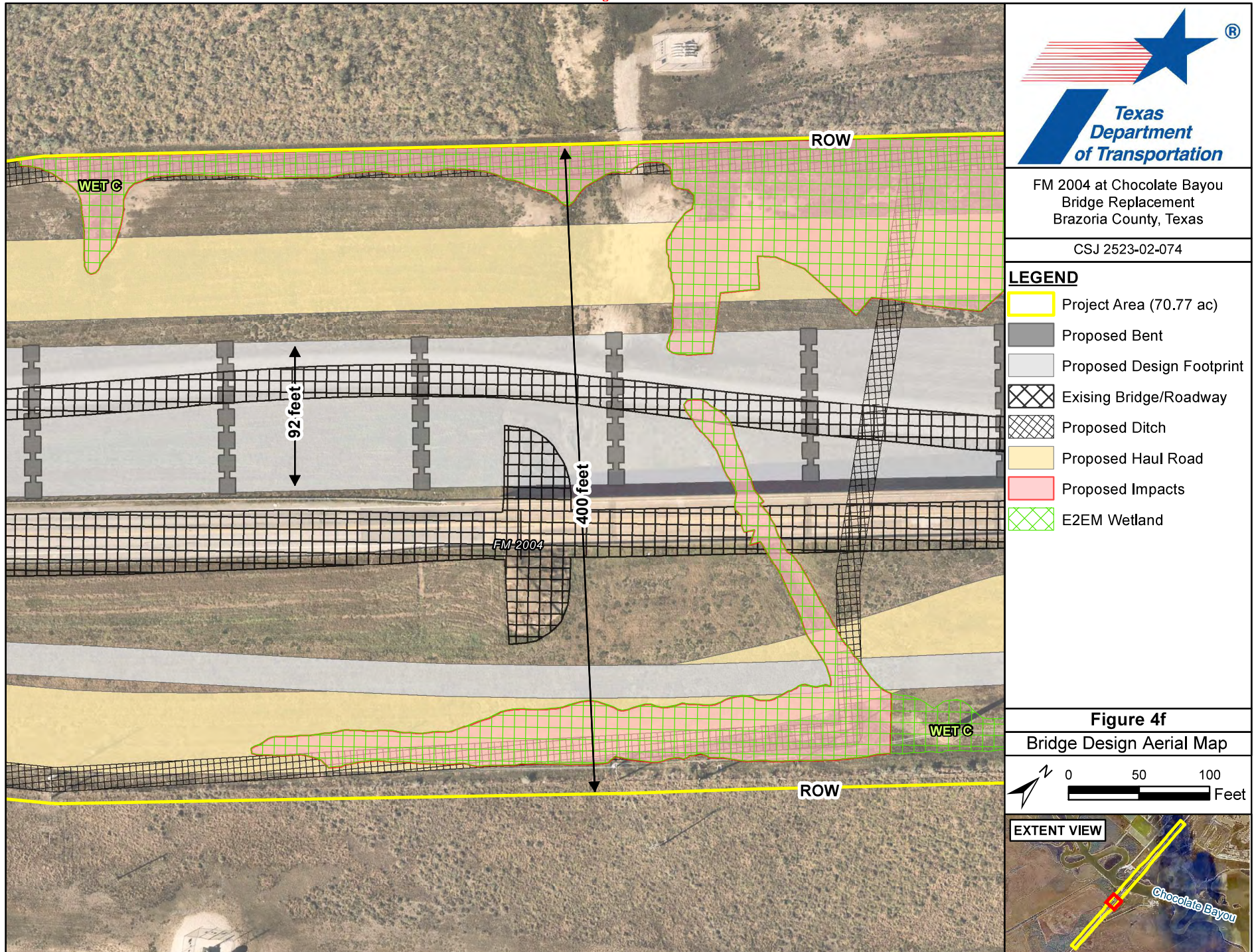
A-A' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
WET D	PEM Wetland	Permanent impact due to the placement of fill	0.77	-	29.206754	-95.213197









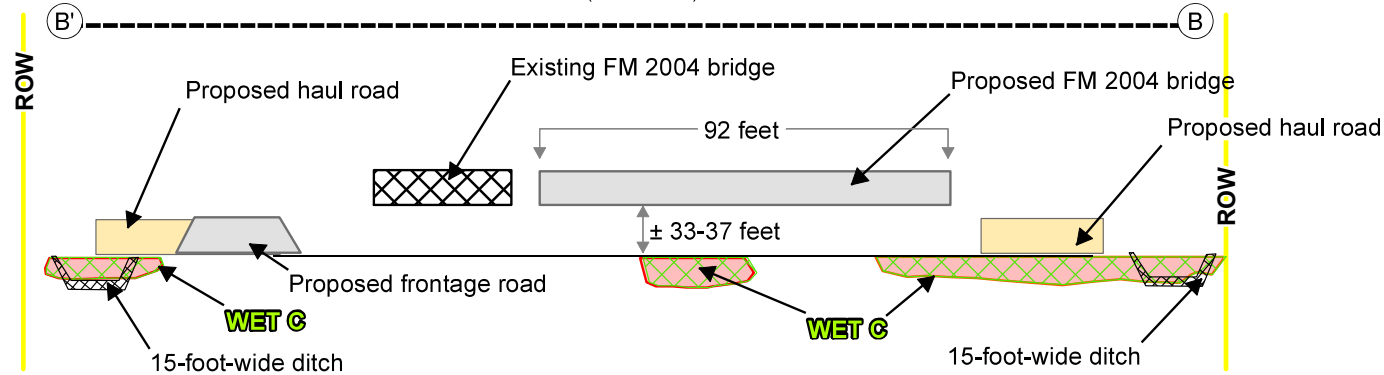
FM 2004 at Chocolate Bayou
Bridge Replacement
Brazoria County, Texas

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LEGEND

- Project Area (70.77 ac)
- Proposed Bent
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- E2EM Wetland
- Proposed Impacts

B-B' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
WET C	E2EM Wetland	Permanent impact due to the placement of fill	1.77	-	29.210762	-95.209528

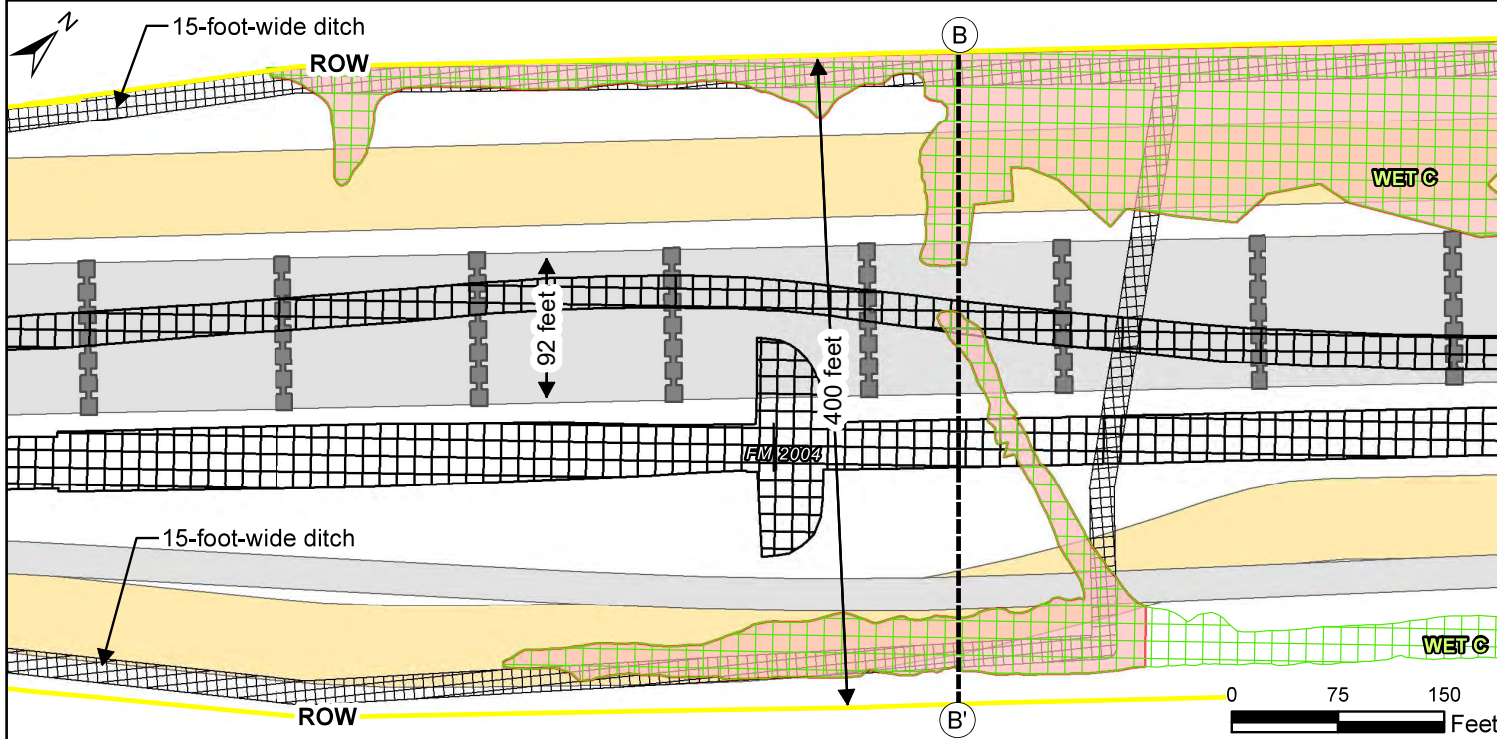
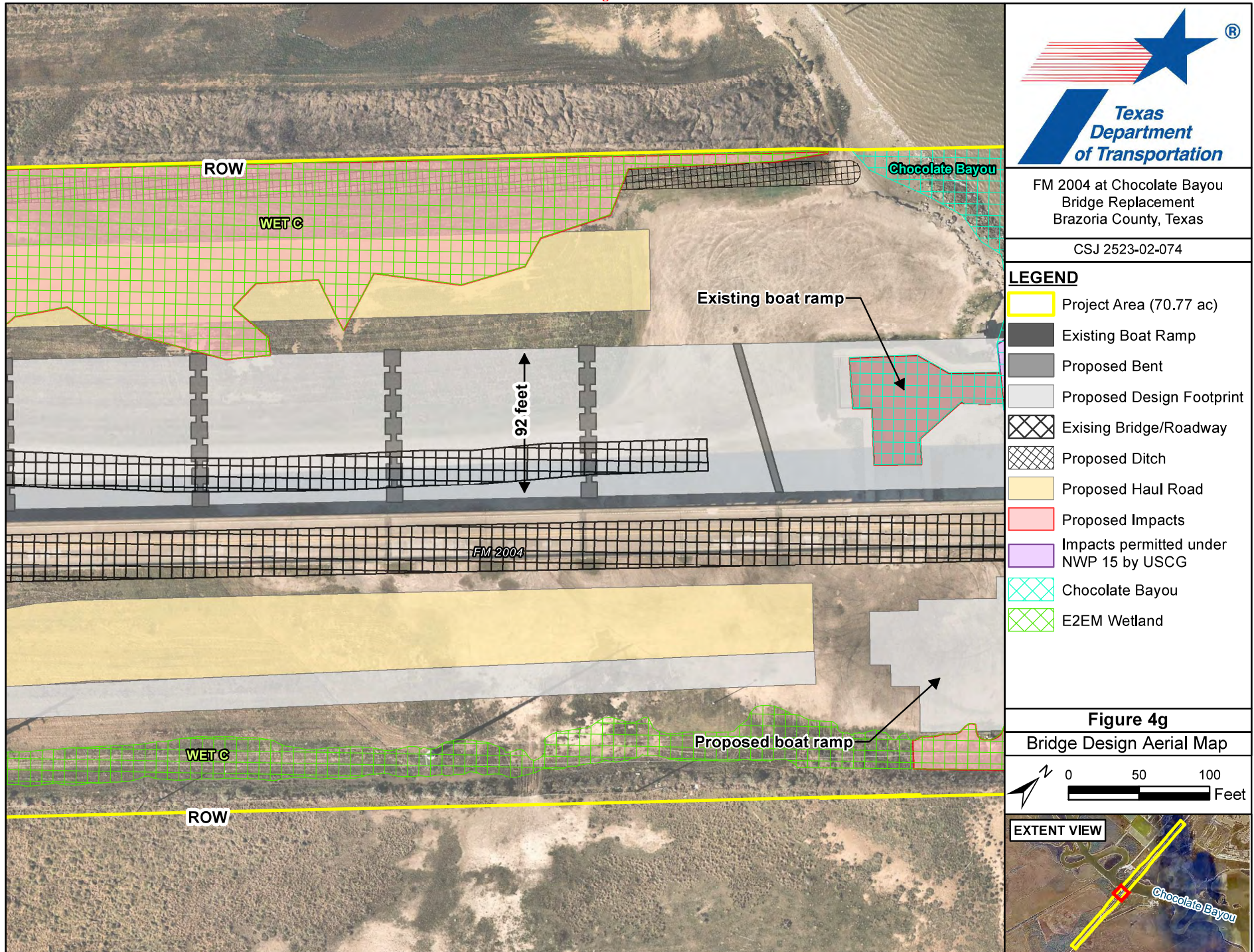


Figure 6b
Plan View and
Cross-Section Map







FM 2004 at Chocolate Bayou
Bridge Replacement
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LEGEND

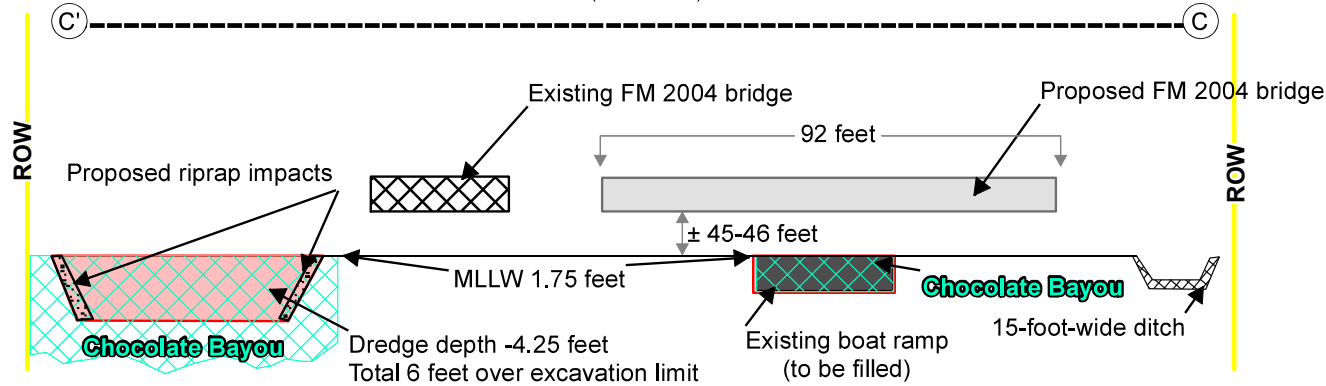
- Project Area (70.77 ac)
- Existing Boat Ramp
- Proposed Bent
- Proposed Design Footprint
- Proposed Riprap
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- Chocolate Bayou
- E2EM Wetland
- Proposed Impacts
- Impacts permitted under NWP 15 by USCG

Figure 6c

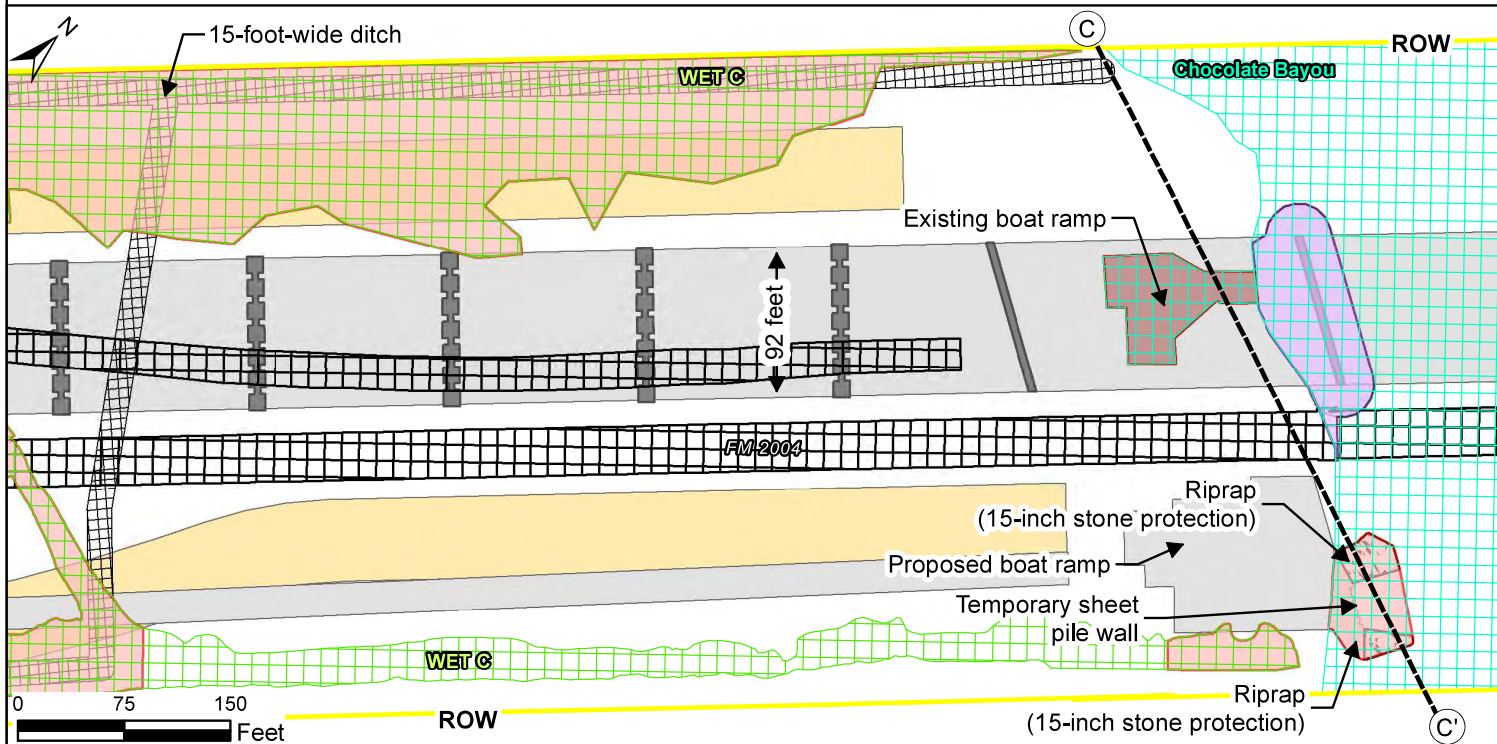
Plan View and
Cross-Section Map



C-C' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
Chocolate Bayou	Stream	Placement of dredge and fill for the new boat ramp and fill of the previous boat ramp	0.16	166.10 ft	29.212375	-95.207767





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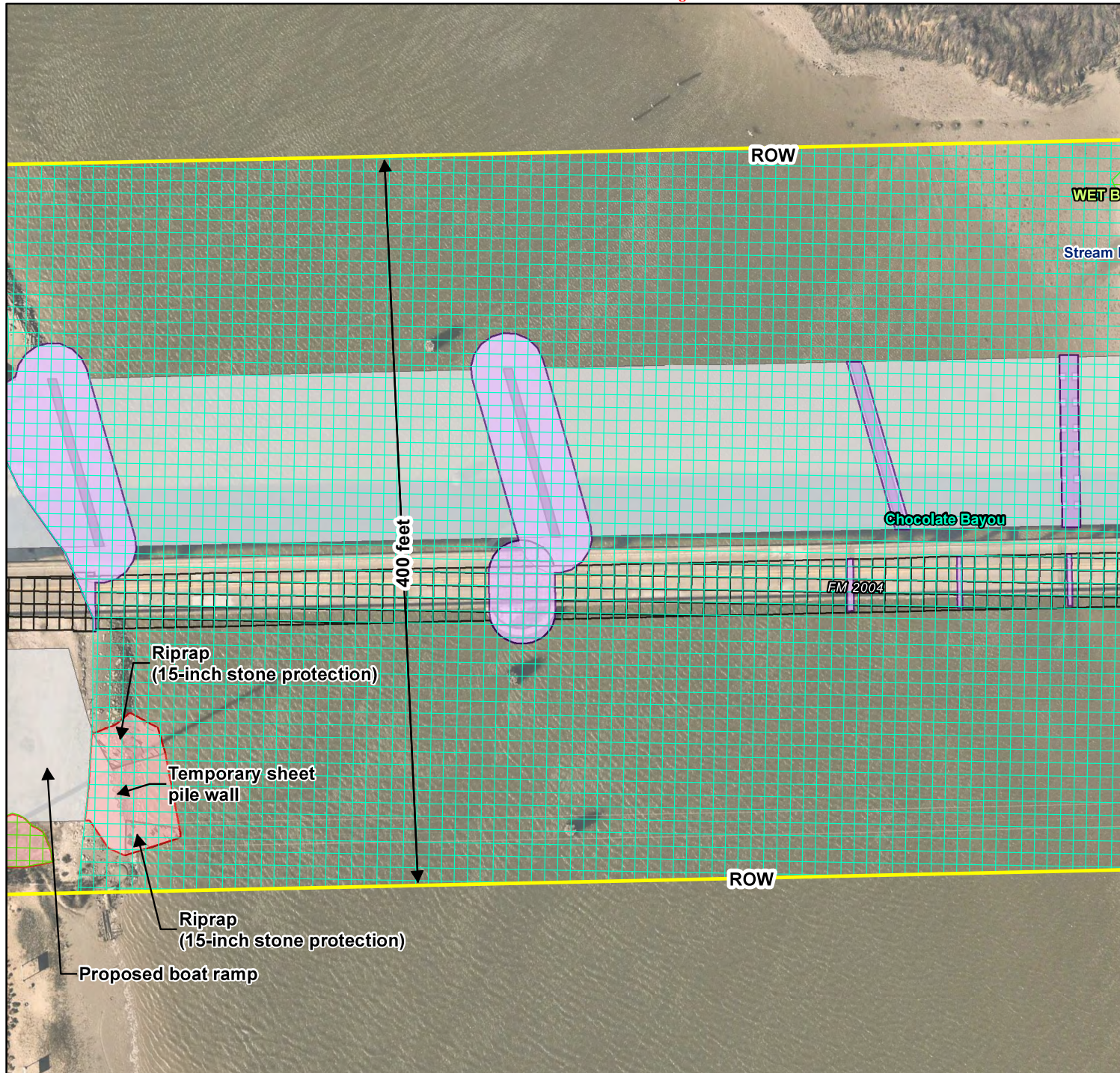
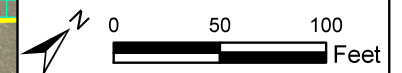
CSJ 2523-02-074

LEGEND

- Project Area (70.77 ac)
- Proposed Bent
- Proposed Design Footprint
- Proposed Riprap
- Existing Bridge/Roadway
- Proposed Haul Road
- Proposed Impacts
- Impacts permitted under NWP 15 by USCG
- Chocolate Bayou
- Stream
- E2SS Wetland
- E2EM Wetland

Figure 4h

Bridge Design Aerial Map





FM 2004 at Chocolate Bayou
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Brazoria County, Texas

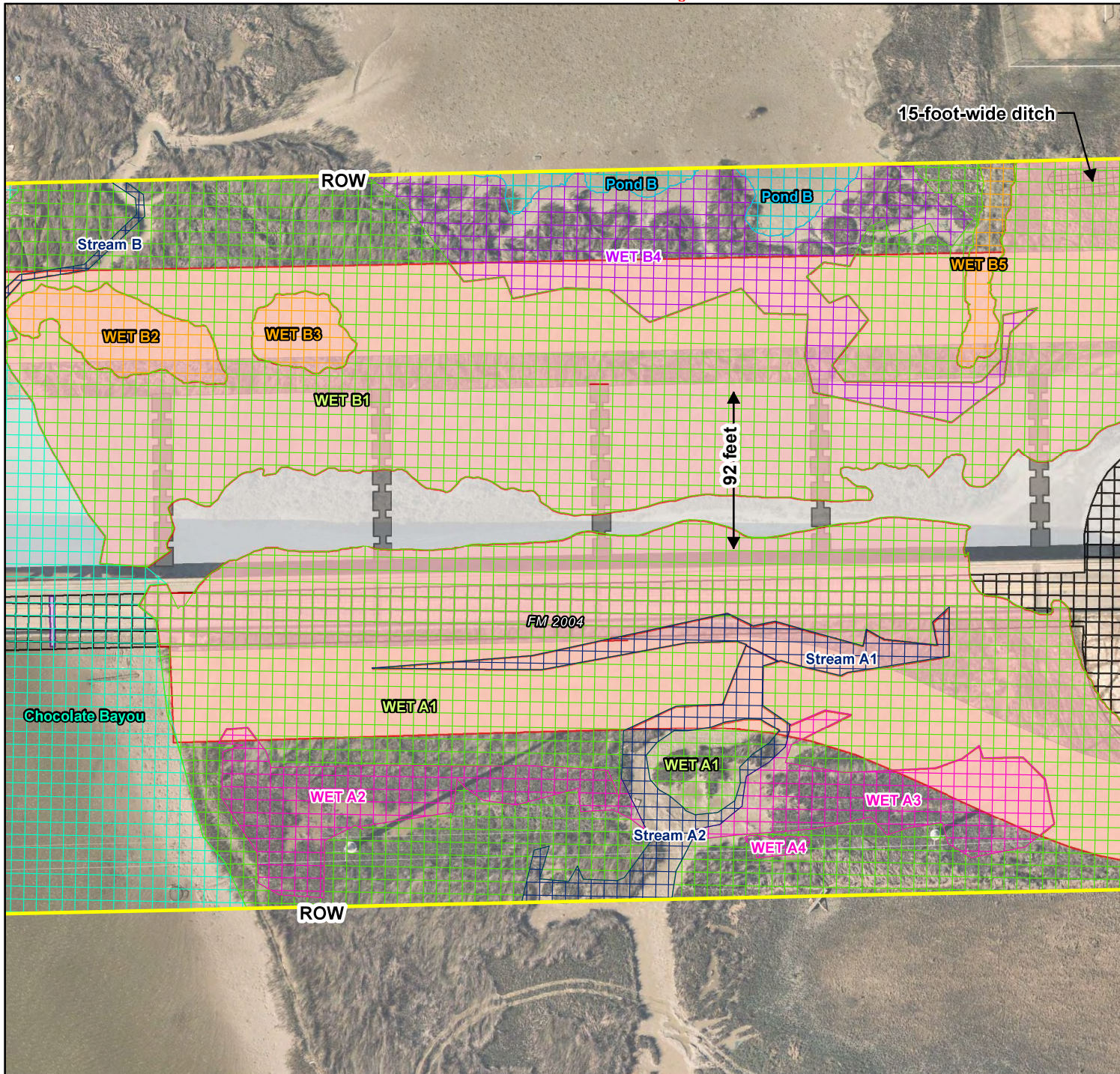
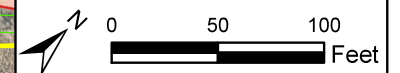
CSJ 2523-02-074

LEGEND

- Project Area (70.77 ac)
- Proposed Bent
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- Proposed Impacts
- Impacts permitted under NWP 15 by USCG
- Chocolate Bayou
- Stream
- E2SS Wetland
- Mosaic Wetland and Pond
- E2EM Wetland
- E2UB Pond
- E2US Wetland

Figure 4i

Bridge Design Aerial Map





FM 2004 at Chocolate Bayou
Bridge Replacement
Brazoria County, Texas

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LEGEND

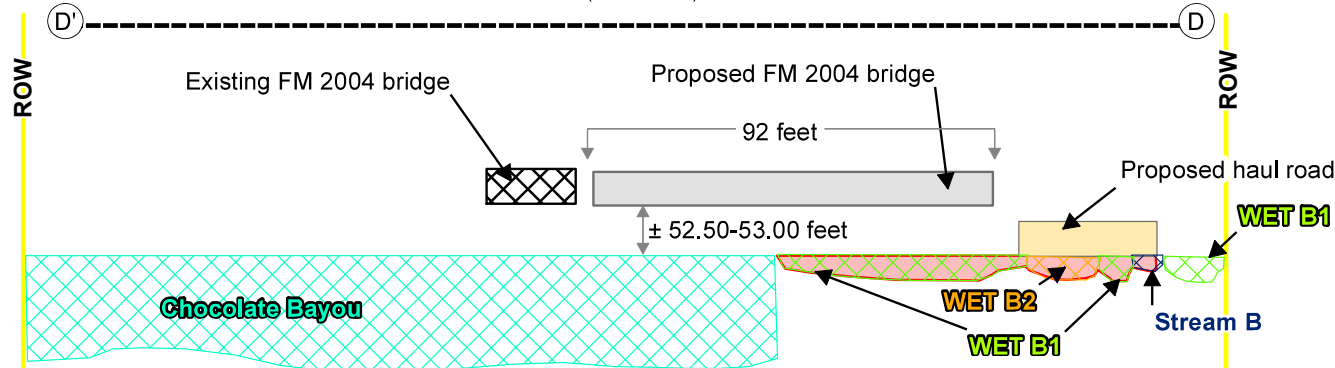
- Project Area (70.77 ac)
- Proposed Bent
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- Chocolate Bayou
- Stream
- E2SS Wetland
- Mosaic Wetland and Pond
- E2EM Wetland
- E2UB Pond
- E2US Wetland
- Proposed Impacts
- Impacts permitted under NWP 15 by USCG

Figure 6d

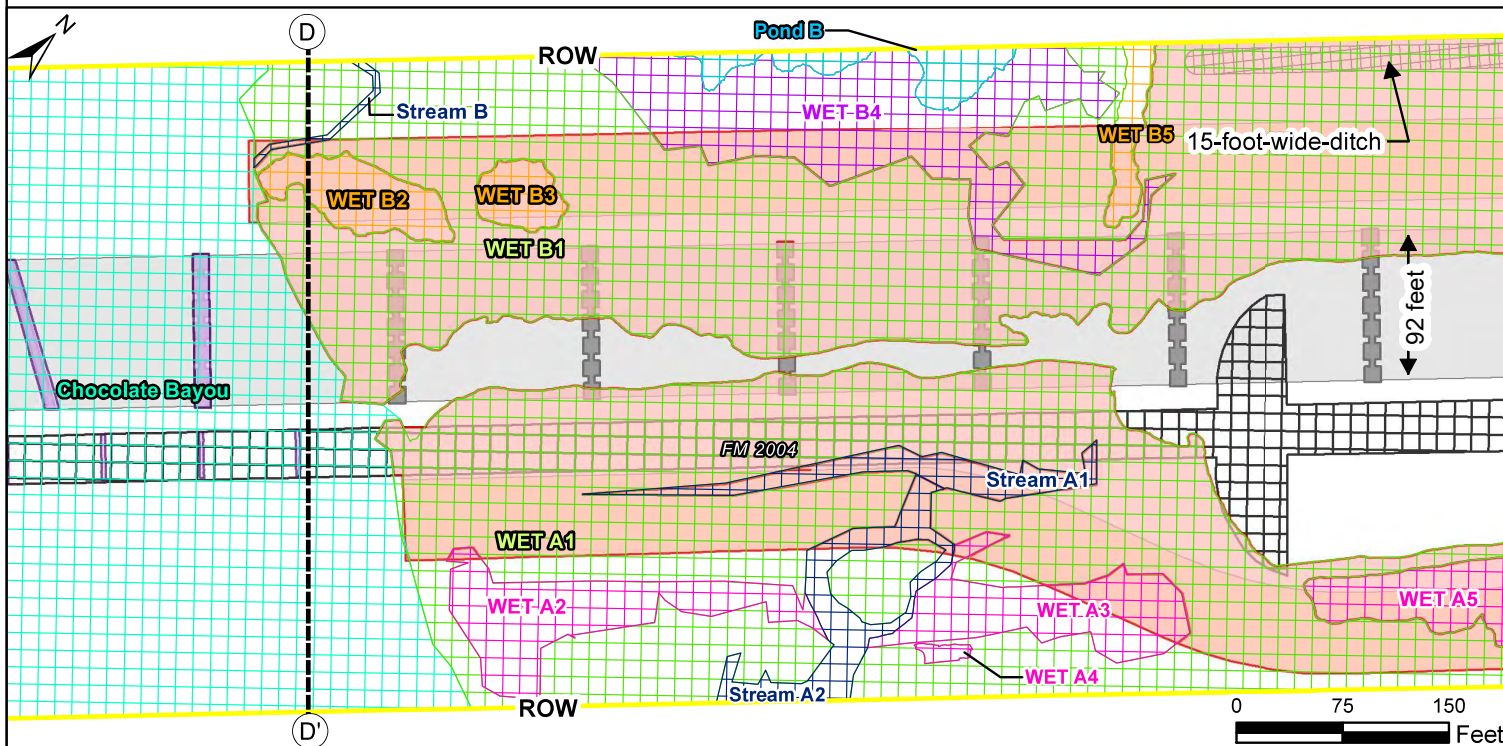
Plan View and
Cross-Section Map



D-D' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
WET B1	E2EM Wetland	Permanent impact due to the placement of fill	6.49	-	29.215543	-95.204676
WET B2	E2SS Wetland	Permanent impact due to the placement of fill	0.09	-	29.213469	-95.206942
Stream B	Stream	Permanent impact due to the placement of fill	0.01	42.22 ft	29.213527	-95.207091





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LEGEND

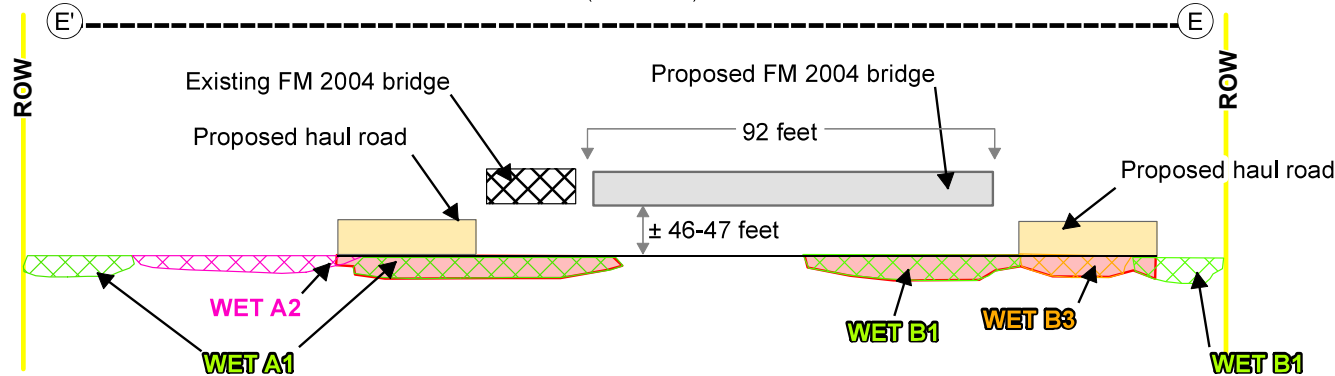
- Project Area (70.77 ac)
- Proposed Bent
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- Chocolate Bayou
- Stream
- E2SS Wetland
- Mosaic Wetland and Pond
- E2EM Wetland
- E2UB Pond
- E2US Wetland
- Proposed Impacts
- Impacts permitted under NWP 15 by USCG

Figure 6e

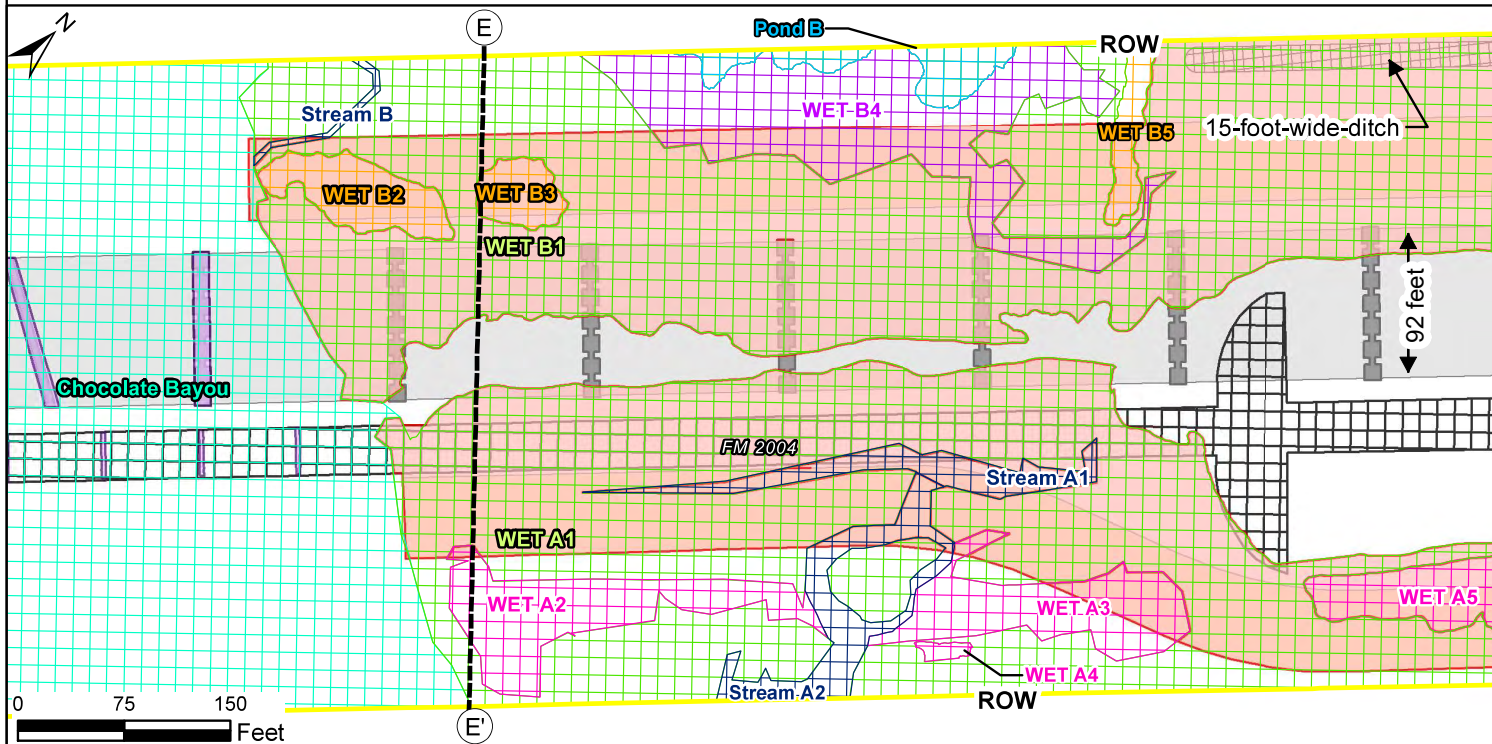
Plan View and
Cross-Section Map



E-E' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
WET A1	E2EM Wetland	Permanent impact due to the placement of fill	4.69	-	29.215491	-95.203810
WET A2	E2US Wetland	Permanent impact due to the placement of fill	0.002	-	29.213248	-95.206063
WET B3	E2SS Wetland	Permanent impact due to the placement of fill	0.04	-	29.213664	-95.206727





FM 2004 at Chocolate Bayou
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LEGEND

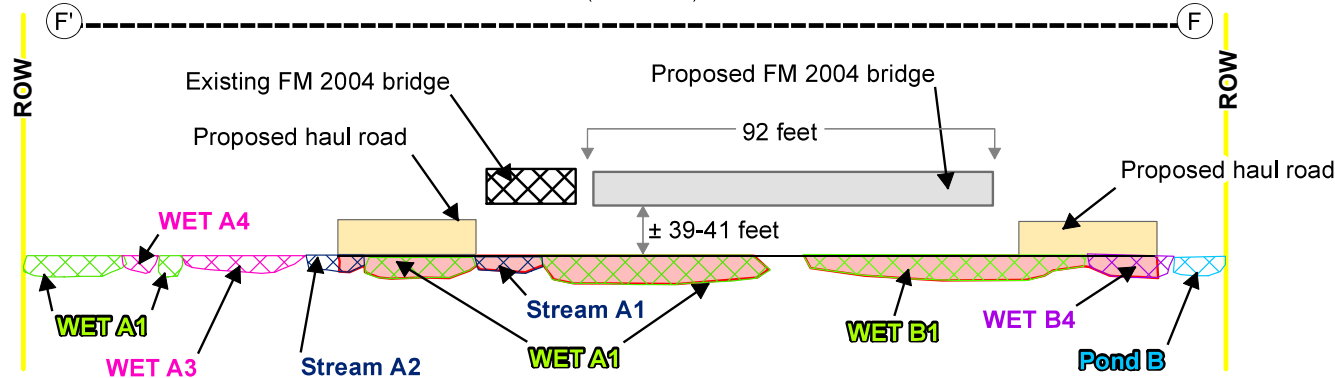
- Project Area (70.77 ac)
- Proposed Bent
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- Chocolate Bayou
- Stream
- E2SS Wetland
- Mosaic Wetland and Pond
- E2EM Wetland
- E2UB Pond
- E2US Wetland
- Proposed Impacts
- Impacts permitted under NWP 15 by USCG

Figure 6f

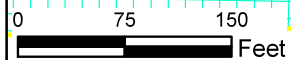
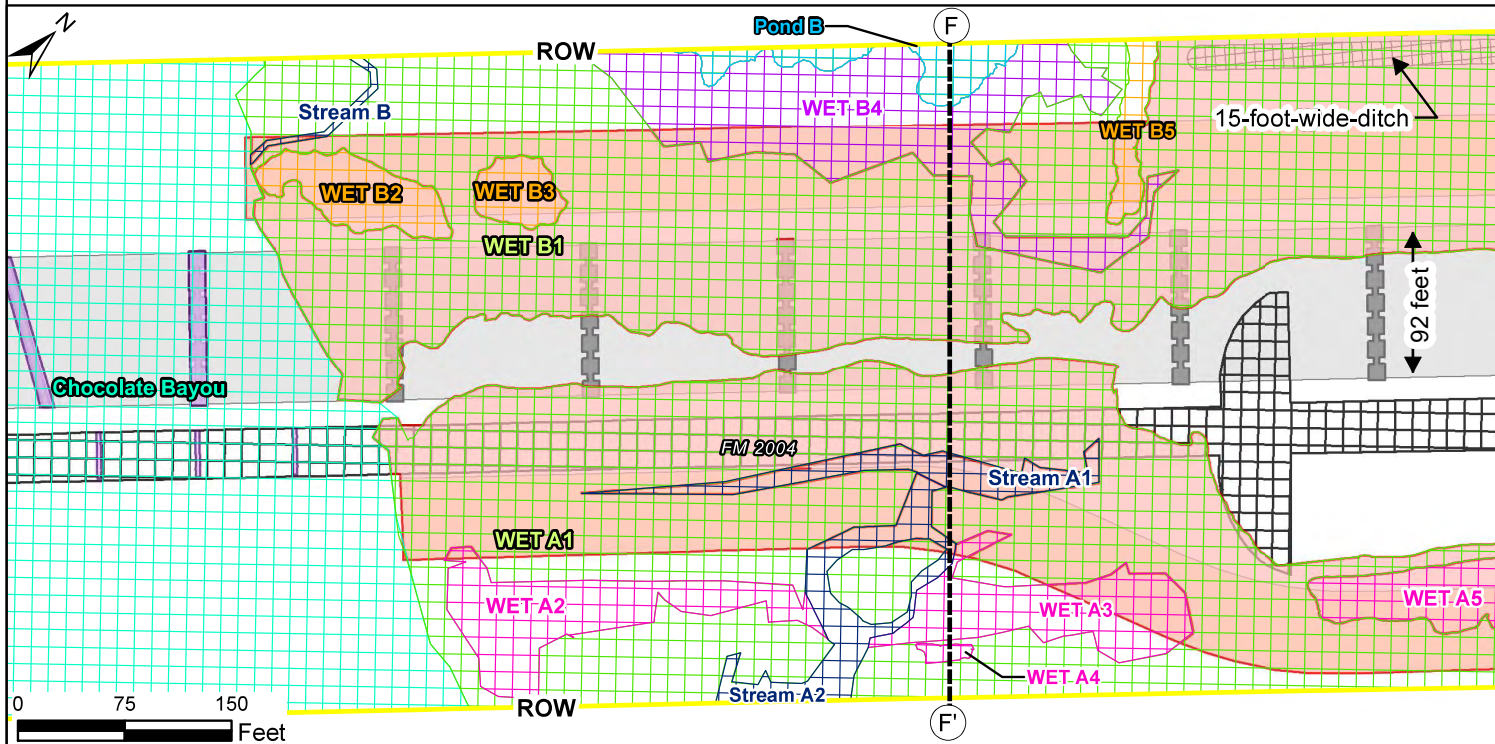
Plan View and
Cross-Section Map



F-F' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
WET B4	Mosaic Wetland and Pond	Permanent impact due to the placement of fill	0.16	-	29.214173	-95.206350
Stream A1	Stream	Permanent impact due to the placement of fill	0.08	334.17 ft	29.213677	-95.205964
Stream A2	Stream	Permanent impact due to the placement of fill	0.03	76.33 ft	29.213669	-95.205709





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LEGEND

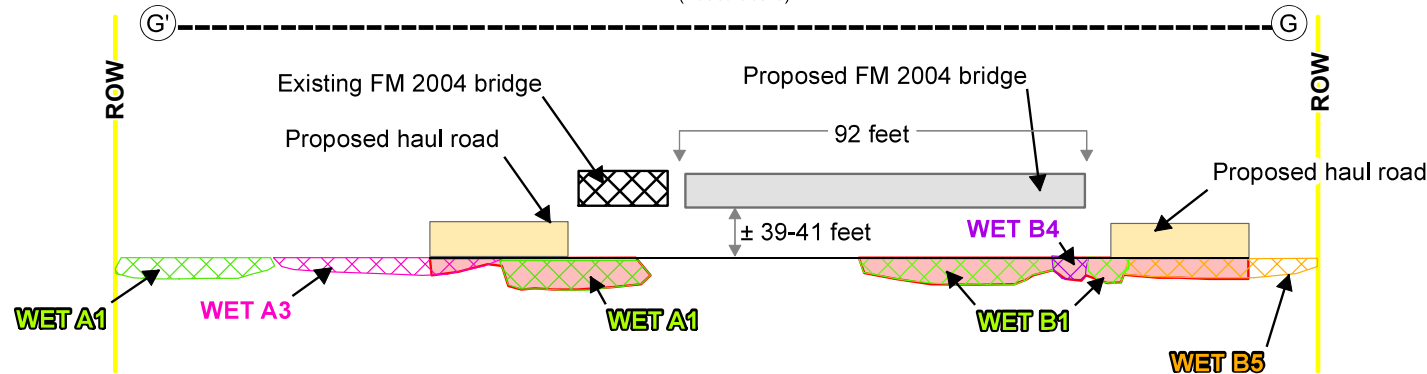
- Project Area (70.77 ac)
- Proposed Bent
- Proposed Design Footprint
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- Chocolate Bayou
- Stream
- E2SS Wetland
- Mosaic Wetland and Pond
- E2EM Wetland
- E2UB Pond
- E2US Wetland
- Proposed Impacts
- Impacts permitted under NWP 15 by USCG

Figure 6g

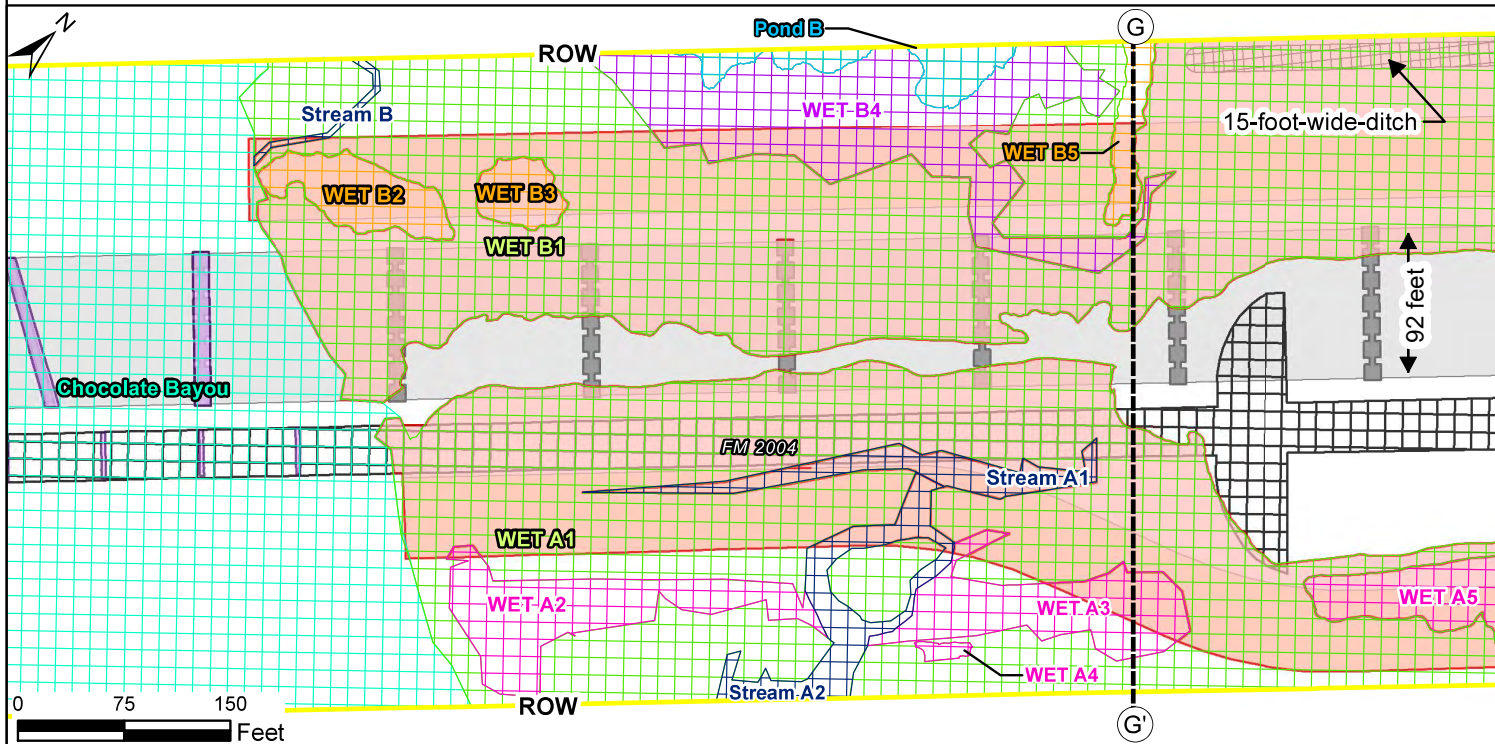
Plan View and
Cross-Section Map

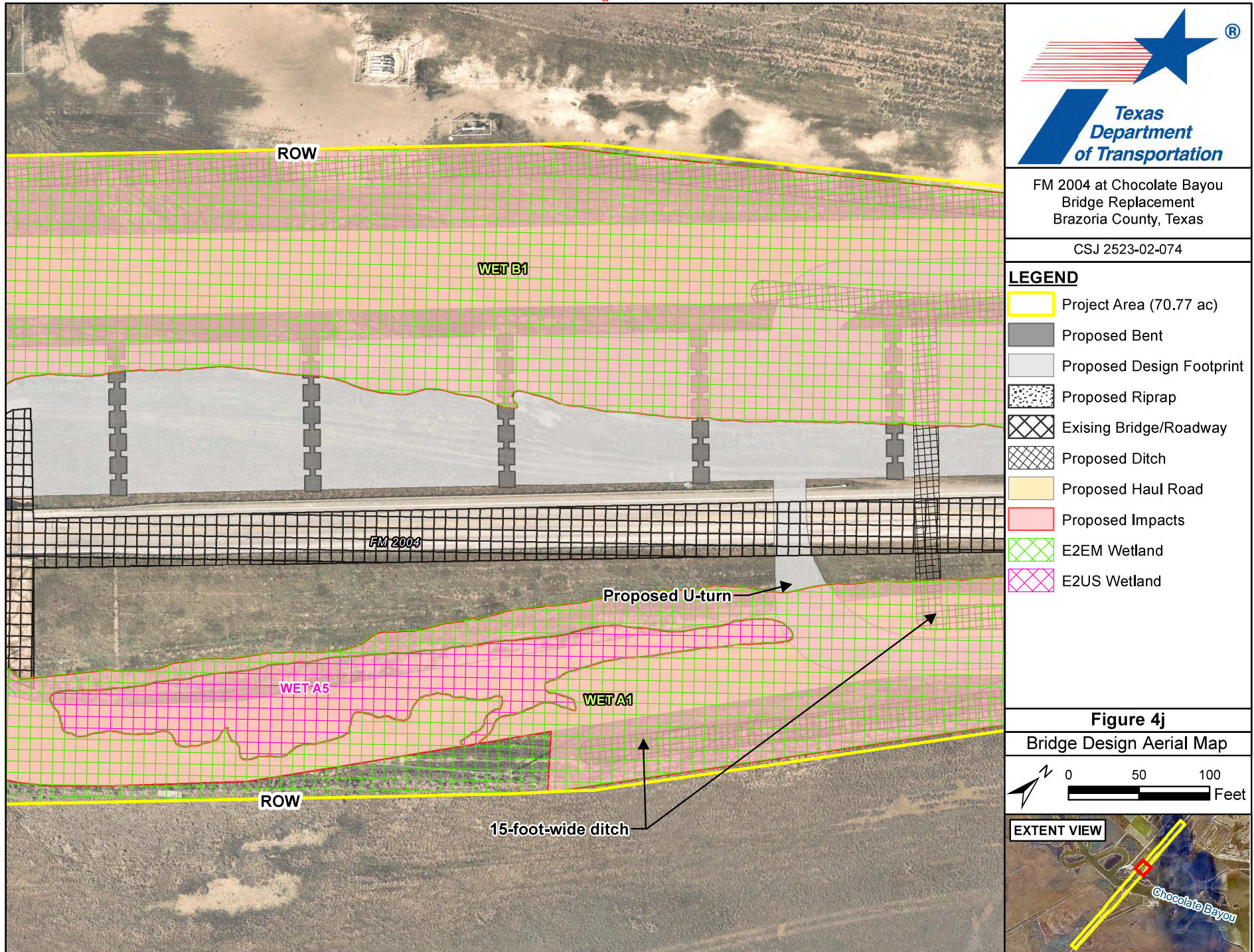


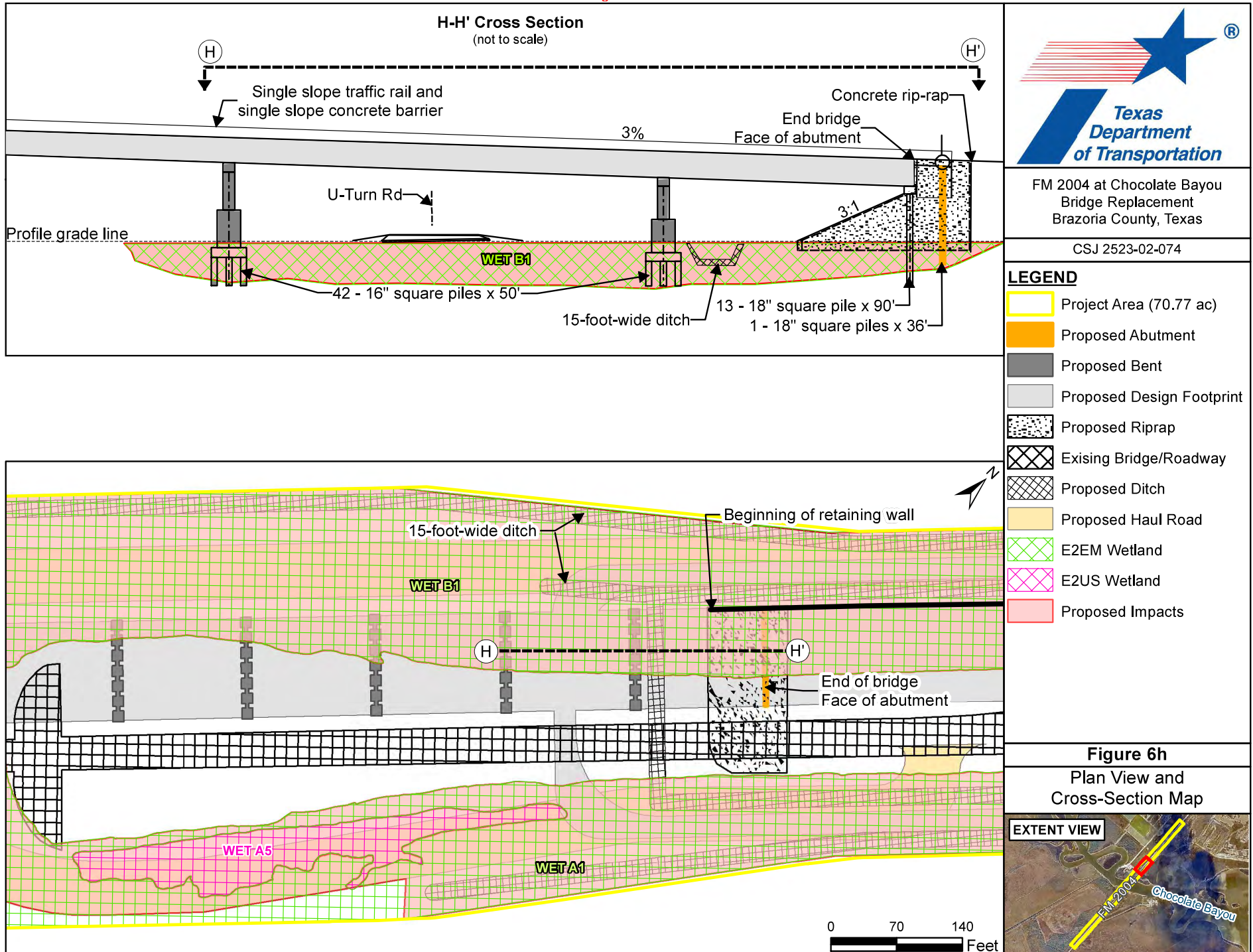
G-G' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
WET A3	E2US Wetland	Permanent impact due to the placement of fill	0.05	-	29.213821	-95.205439
WET B5	E2SS Wetland	Permanent impact due to the placement of fill	0.02	-	29.214476	-95.206996









FM 2004 at Chocolate Bayou
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LEGEND










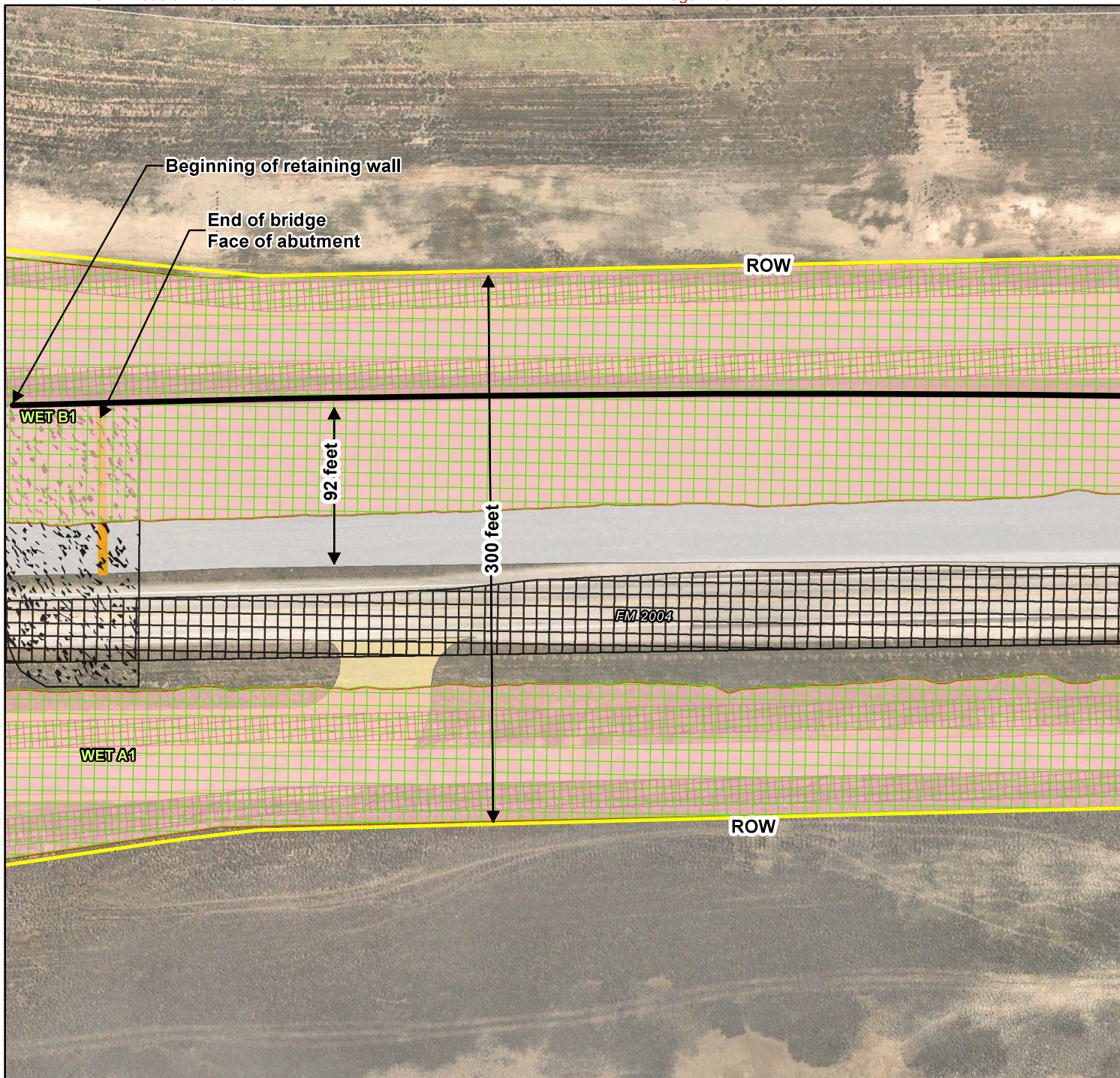
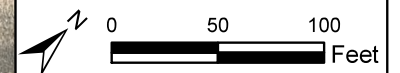
-  Project Area (70.77 ac)
-  Proposed Abutment
-  Proposed Design Footprint
-  Proposed Riprap
-  Existing Bridge/Roadway
-  Proposed Ditch
-  Proposed Haul Road
-  Proposed Impacts
-  E2EM Wetland

Figure 4k

Bridge Design Aerial Map





FM 2004 at Chocolate Bayou
Bridge Replacement
Brazoria County, Texas

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LEGEND

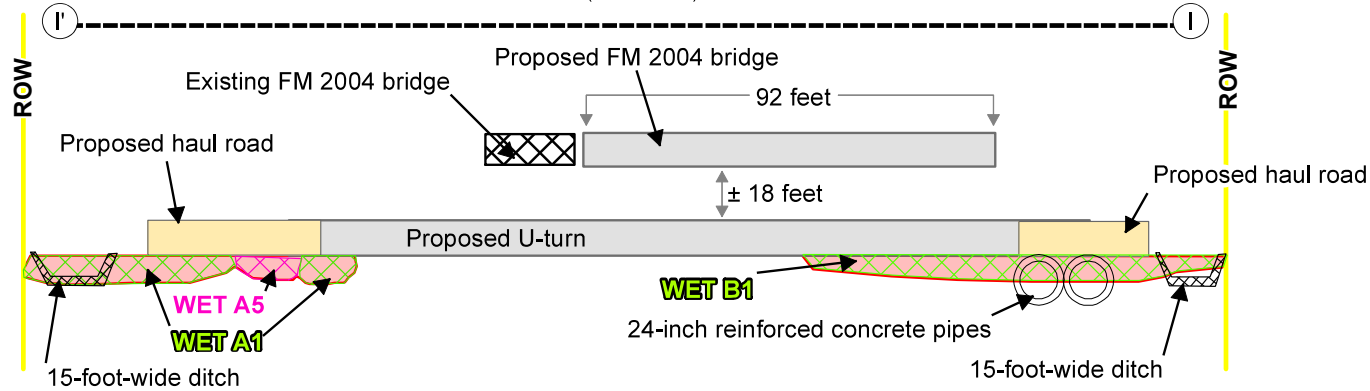
- Project Area (70.77 ac)
- Proposed Abutment
- Proposed Bent
- Proposed Design Footprint
- Proposed Riprap
- Existing Bridge/Roadway
- Proposed Ditch
- Proposed Haul Road
- E2EM Wetland
- E2US Wetland
- Proposed Impacts

Figure 6i

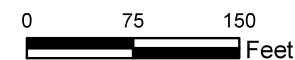
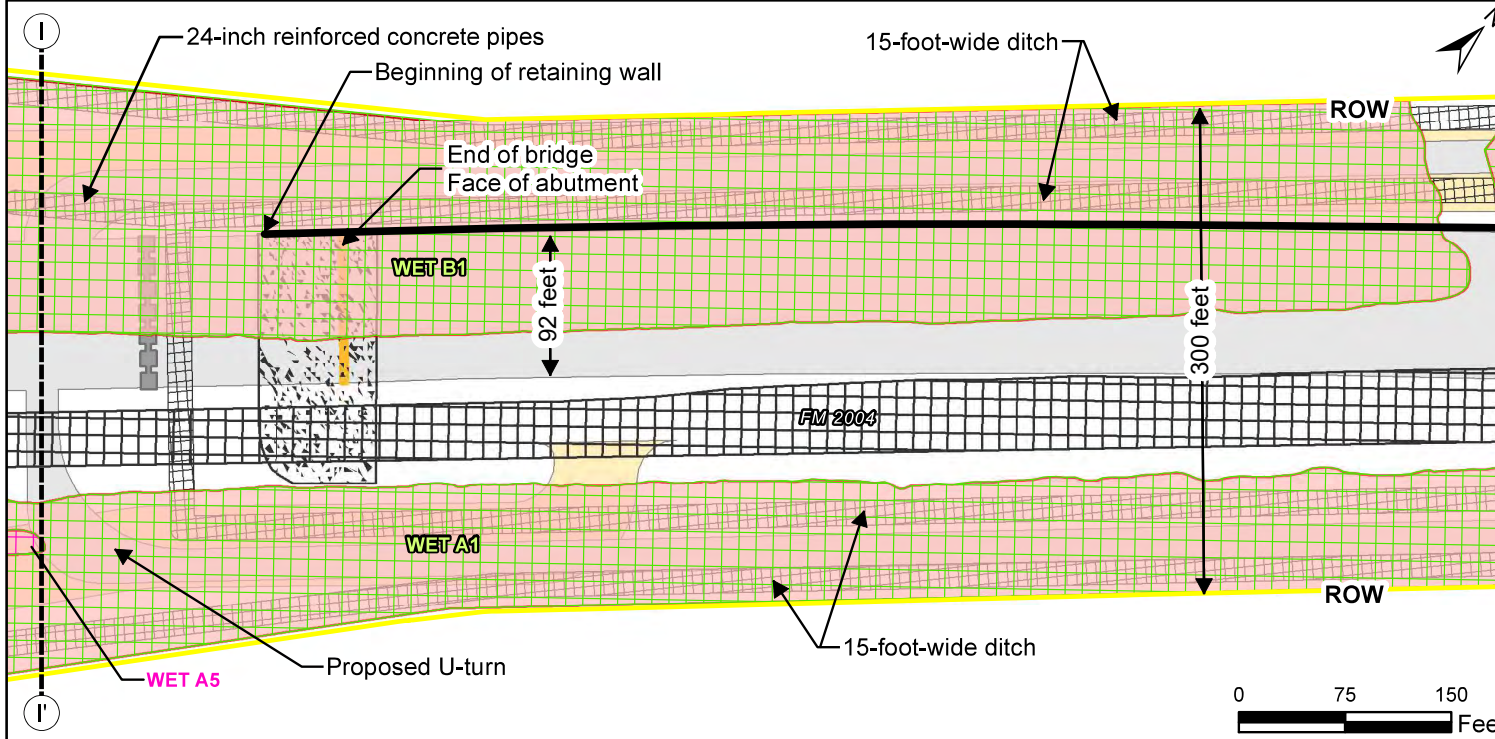
Plan View and
Cross-Section Map



I-I' Cross Section (not to scale)



FEATURE NAME	FEATURE TYPE	IMPACT TYPE	IMPACT ACREAGE	IMPACT LENGTH	LATITUDE	LONGITUDE
WET A5	E2US Wetland	Permanent impact due to the placement of fill	0.34	-	29.214568	-95.204711





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LEGEND








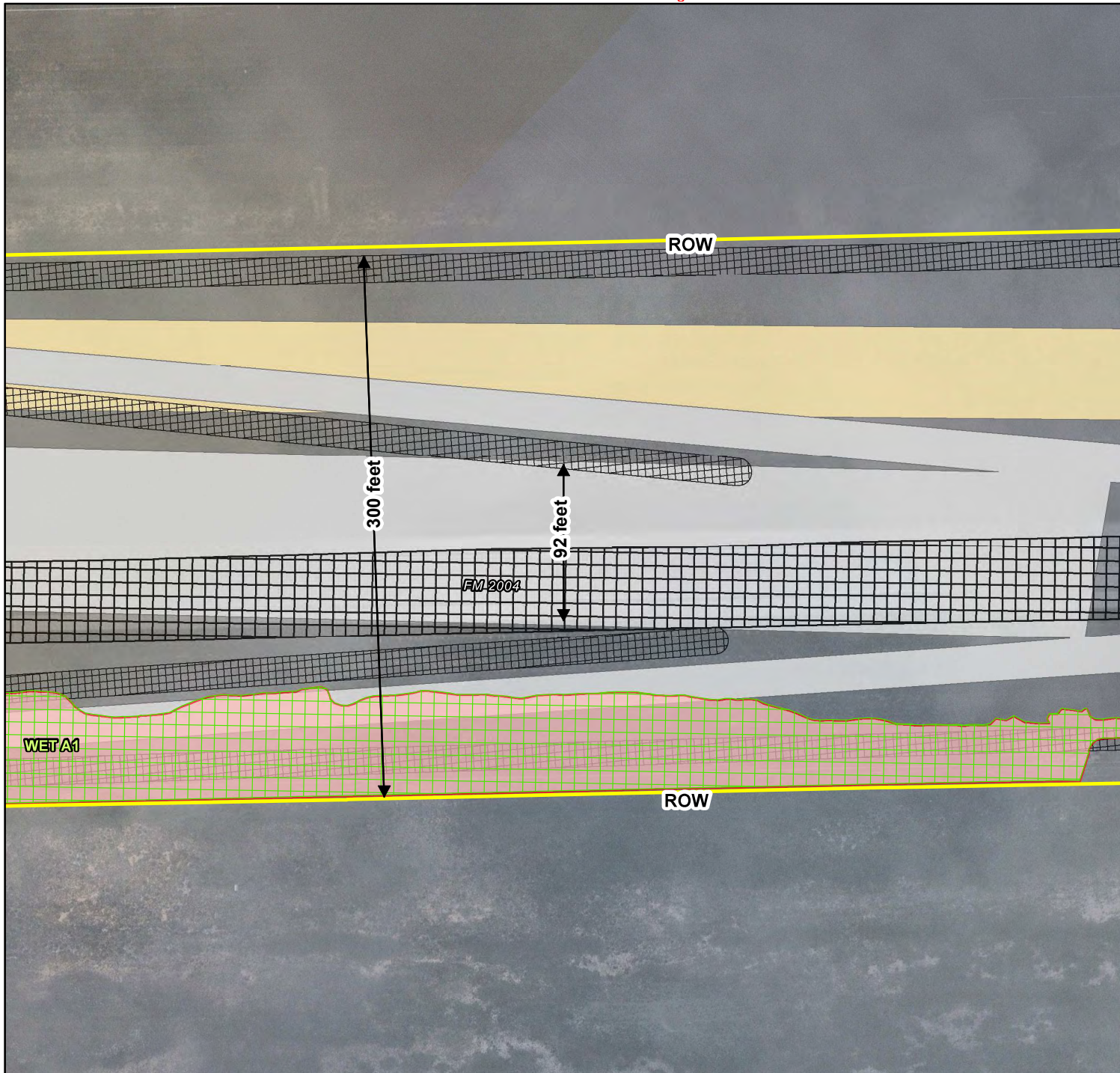
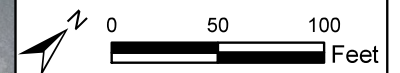
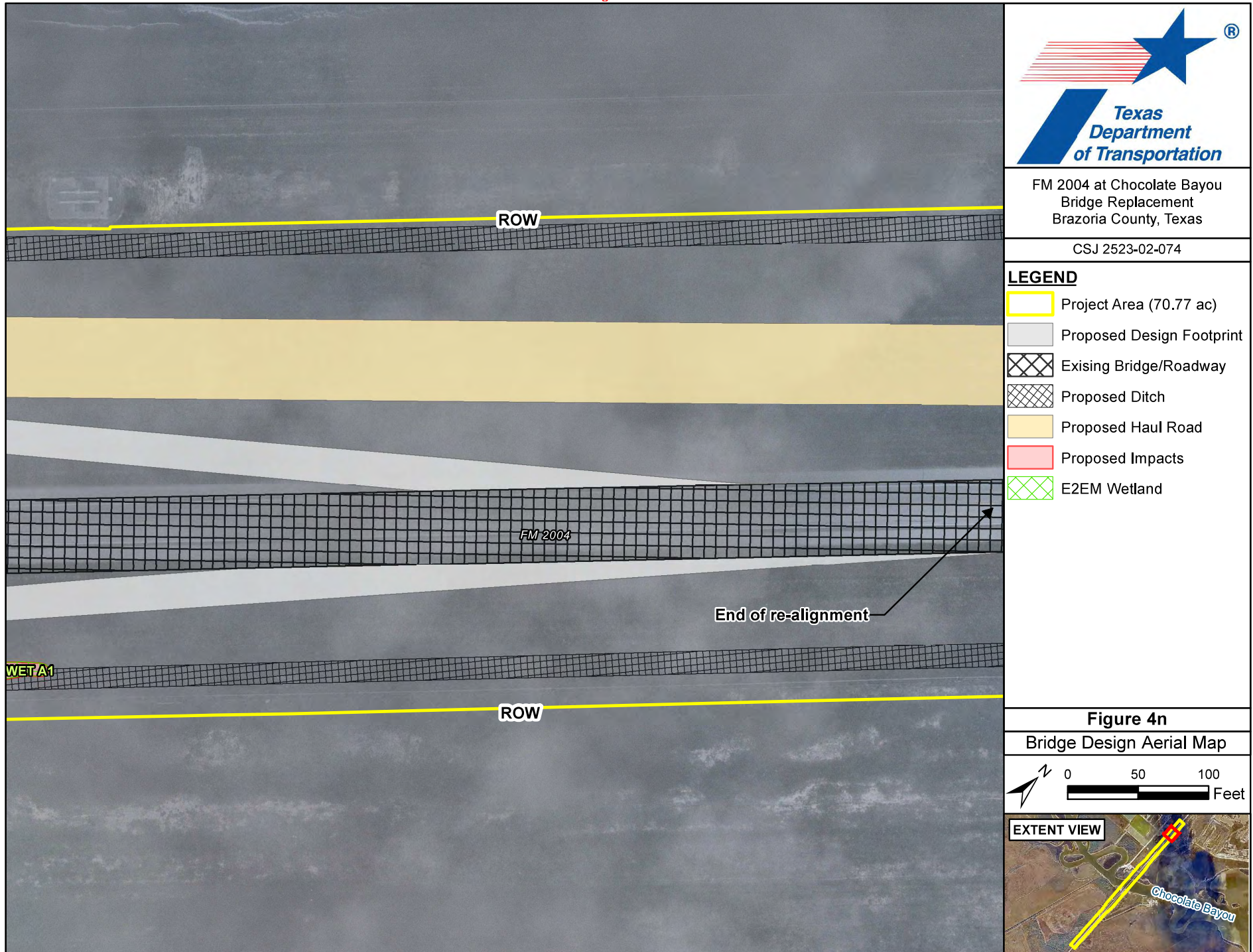
-  Project Area (70.77 ac)
-  Proposed Design Footprint
-  Existing Bridge/Roadway
-  Proposed Ditch
-  Proposed Haul Road
-  Proposed Impacts
-  E2EM Wetland

Figure 4m

Bridge Design Aerial Map







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LEGEND






-  Project Area (70.77 ac)
-  Proposed Design Footprint
-  Existing Bridge/Roadway
-  Proposed Ditch
-  Proposed Haul Road

Figure 4o

Bridge Design Aerial Map

