



**DEPARTMENT OF THE ARMY**  
MOBILE DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 2288  
MOBILE, AL 36628-0001

February 7, 2013

REPLY TO  
ATTENTION OF:

Coastal Branch  
Regulatory Division

SUBJECT: Department of the Army Application Number SAM-2012-01165-MBM,  
Plains Southcap L.L.C. – Mississippi, Jackson County, Alabama.

Plains Southcap, L.L.C.  
C/o SWCA Environmental Consultant  
Attention: Mr. R. Thomas Sankey  
7255 Langtry, Suite 100  
Houston, Texas 77040

Dear Mr. Sankey:

This letter is in response to your September 12, 2012, request for a Department of the Army (DA) permit to construct a 41-mile crude oil pipeline starting at the Plains Ten-Mile Crude Oil Facility in Mobile Alabama, located approximately 11 miles northwest of downtown Mobile, and extends southwest to Pascagoula, Mississippi. The Mississippi segment of the pipeline application has been assigned number SAM-2012-01165-MBM which should be referred to in all future correspondence with this office. The Mississippi segment of the project starts at the Eli Dudley Road at the Alabama/Mississippi state line at 30.622880 North, -88.407197 West, follows an existing utility corridor to the west, crosses twice under Section 10 reaches of the Escatawpa River, and ends at the Chevron facility at 30.355411 North, -88.488546 West, Pascagoula, Mississippi.

DA permit authorization is necessary because your pipeline project requires trenching of 11 stream crossings causing temporary impacts to a total of 278 linear feet of stream, and crosses 128 wetland polygons causing temporary impacts to a total of 105.49 acres of wetlands as a result of mechanized land-clearing, temporary trenching and side-casting of fill, and temporary and permanent conversion of bottomland hardwood wetlands to shrub-scrub and emergent wetlands. To minimize impacts to larger navigable waters, horizontal directional drilling will be used to place the pipeline across the Escatawpa River at 2 locations as well as under Little Black Creek and Black Creek, which are all Section 10 waters. All temporary stream impacts are within tributaries to the Escatawpa River, tributaries to Black Creek, tributaries to Little Black creek, tributaries to Bayou Cumbest, and tributaries to Bangs Lake. The wetland impacts are within the larger wetland systems adjacent to these waterbodies. The attached Table 1 identifies the permanent and temporary impacts to waters of the U.S. for the Mississippi segment of the pipeline. The attached Table 2 identifies all permanent habitat conversion impacts to bottomland hardwood wetlands requiring compensatory mitigation in accordance with the Mobile District's mitigation guidance for Converted Wetland Habitat Right-of-way for a Typical Linear Project with

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Typical Recommendation for Compensation due to Vegetation Conversion. The applicant provides that they will purchase the required 56.64 bottomland hardwood compensatory mitigation credits reflected on Table 2 from the Wetland Solutions George County Mitigation Bank in George County, Mississippi.

Based upon the information and plans you provided, we hereby verify that the work described above, which would be performed in accordance with the attached drawings, is authorized by Nationwide Permit (NWP) 12, *Utility Line Activities*, in accordance with 33 CFR Part 330 of our regulations. As detailed in the enclosed Table 1, sixteen separate NWP 12 verifications are provided. All impacts and crossings of a single water of the United States at a specific location is considered a single and complete project. Impacts associated with each waterbody and adjacent wetland was verified as a single and complete project. NWP 12 project verification numbers are identified in column one of Table 1. NWP 12 and its associated regional and general conditions are available at: [www.sam.usace.army.mil/rd/reg/](http://www.sam.usace.army.mil/rd/reg/).

You must comply with all of the regional and general conditions and any project specific conditions of these verifications or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verifications may be required. These verifications are valid for **two years** from the date of this document and are subject to all terms and conditions associated with NWP 12, as well as with the special conditions. The following special conditions apply to each of the sixteen NWP 12 verifications identified in Table 1:

a. You shall comply with all the terms and conditions of the Mississippi Department of Environmental Quality Section 401 Water Quality Certification for Nationwide Permit 12. This document can be viewed and downloaded from our website at [www.sam.usace.army.mil/RD/reg/nwp.htm](http://www.sam.usace.army.mil/RD/reg/nwp.htm) for your review and compliance, or at your request a paper copy will be provided to you.

b. No work may begin until you have obtained a Coastal Use Permit or waiver from the Mississippi Department of Marine Resources.

c. Prior to any impacts to waters of the United States, the permittee shall submit to this office of the U.S. Army Corps of Engineers proof-of-purchase of the 56.64 bottomland hardwood wetland mitigation credits from an approved wetland mitigation bank in Mississippi. As shown in the attached Table 2, mitigation shall compensate for the following: 1) temporary impacts to 32.118175 acres of bottomland hardwood wetlands allowed to return to bottomland hardwood wetlands at a ratio of 0.25:1, 3) impacts to 17.159058 acres of bottomland hardwood wetlands permanently converted to scrub-shrub wetlands at a ratio of 0.5:1, and 4) impacts to 40.026231 acres of bottomland hardwood wetlands permanently converted to emergent wetlands at a ratio of 1:1.

d. The project shall avoid impacts to larger Section 10 waterbodies using horizontal directional drilling. These waterbodies include Black Creek, Little Black Creek, and the Escatawpa River at two locations. All entry work pads (200' by 200"), and exit work pads

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(250' by 200') will be removed and the wetlands fully restored unless it is located in the permanently maintained right-of-way and requires wetland conversion mitigation. See condition e.3. regarding temporary impacts in tidal marsh.

1) The pipeline shall cross under the upper Escatawpa River at 30° 25'18.30" North, 88° 29'17.26" West. Direction drilling will start at 30° 25'12.61" North, 88° 29'14.06" West, directional bore 25 feet below the river bottom, and resurface at 30° 25'21.84" North, 88° 29'19.26" West.

2) The pipeline shall cross under the lower Escatawpa River at 30° 25'18.07" North, 88° 29'13.21" West. Direction drilling will start at 30° 24'58.107" North, 88° 28'58.269" West, directional bore 69.5 feet below the river bottom, and resurface at 30° 25'35.748" North, 88° 29'27.272" West.

3) The pipeline shall cross under Little Black Creek at 30° 26'30.15" North, 88° 29'42.71" West. Direction drilling will start at 30° 26'18.34" North, 88° 29'41.67" West, directional bore 25 feet below the river bottom, and resurface at 30° 26'36.37" North, 88° 29'43.26" West.

4) The pipeline shall cross under Black Creek at 30° 29'57.69" North, 88° 29'49.05" West. Direction drilling will start at 30° 29'47.06" North, 88° 29'50.86" West, directional bore 31 feet below the river bottom, and resurface at 30° 29'59.52" North, 88° 29'47.43" West.

5) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

6) You must notify the National Ocean Service, in writing, at least two weeks before work begins, and upon completion. You may contact them at Charting and Geodetic Services N/CG222, National Ocean Service NOAA, Rockville, Maryland 20852.

e. No permanent wetland fill impacts are authorized. All temporary impacts to waters of the United States reflected on Table 1 that are not mitigated for as shown on Table 2, shall be fully restored to pre-impact elevation, contours, and ecological condition.

1) For all temporary trenching impacts in wetlands, the top 6 to 12 inches of removed topsoil will be backfilled as topsoil. Wetlands will be restored to pre-impact elevation, contours, and ecological condition. Sites will be allowed to revegetate naturally unless monitoring reflects the site is not returning to pre-impact ecological condition and requires active management. If active management is necessary, the applicant will develop a wetland mitigation plan for restoring these areas. No exotic invasive species shall be present.

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2) Each temporarily impacted stream must be restored to pre-impact pattern, profile, and dimension. For each stream crossing, stream banks will be immediately stabilized upon completion of the utility line installation.

3) For projects impacts requiring restoration of tidal marsh wetlands, the restoration area will be sprigged with black needle rush (Juncus roemarianus) or other marsh species found in wetlands contiguous to the site. Initial plant spacing will not exceed 4 feet apart. No more than one sprig per square yard shall be taken from adjacent donor marshes. Sprigs will not exceed 4 by 4 inches wide by 6 inches deep. Sharpshooter shovels or bulb planters will be utilized to transplant sprigs. The restored site shall have 95% coverage of tidal marsh plants at the end of 5 years.

4) Annual monitoring reports shall be provided for 5 years demonstrating all temporary impacts to wetlands and streams are been returned to pre-impact elevation, contours, and ecological condition. The USACE shall be responsible for making the determination on the success of these areas returning to pre-impact condition. If the temporary impacts to wetlands and streams are not demonstrating achieving this goal, the permittee shall provide an alternative mitigation strategy which may include the purchase of additional mitigation credits from an approved wetland mitigation bank.

f. Should artifacts or archaeological features be encountered during project activities, work shall cease and the permittee shall immediately contact this office at 251-694-3771. The Mobile District will coordinate any findings with the Mississippi State Historic Preservation Officer. This stipulation shall be placed on the construction plans, and it is the permittee's responsibility to ensure that contractors are aware of this requirement.

g. All excavation and fill activities shall be performed in a manner that minimizes disturbance and turbidity increases in "waters of the United States" and wetlands; and shall be retained in a manner to preclude its erosion into any adjacent wetlands or waterway. Appropriate erosion and siltation control measures must be used and maintained in effective operating condition during construction and until such time as the disturbed wetlands and stream banks are revegetated with native wetland species either through natural processes or artificial planting.

h. Material resulting from trench excavation may be temporarily side cast into waters of the United States for no more than three months, and must be placed and stabilized in such a manner that it will not be dispersed by currents or other forces. Onsite soils from the excavated trench should be used as backfill material. After returning the impacted areas to pre-impact elevation and contours, excess soils must be deposited in an upland disposal site.

i. The disposal of trees, brush and other debris in any stream corridor, wetland or surface water is prohibited. No sewage, oil, refuse, or other pollutants shall be discharged into the watercourse.

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j. The movement of equipment within wetlands shall be limited to the minimum necessary to accomplish the work authorized herein. All equipment required to traverse through wetland areas shall be supported on mats or other appropriate measures shall be implemented to minimize soil compaction, rutting, and other damage to wetlands.

k. Project construction shall be conducted in such a manner the passage of normal and expected high flows of surface water runoff outside the project boundaries is not restricted or otherwise altered.

l. It is the responsibility of the permittee to ensure that all contractors working on this project are aware of all regional, general, and project specific conditions of this NWP. A copy of the permit and its general and special conditions shall remain on site at all times during construction.

If you commence or are under contract to commence this activity before the date the relevant NWP is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP permit. The statements contained herein do not convey any property rights, or any exclusive privileges and does not authorize any injury to property or obviate the requirements to obtain other local, State or Federal assent required by law. Nothing in this letter shall be construed as excusing you from compliance with other Federal, State, or local statutes, ordinances, or regulations which may affect this work.

Please note, NWP General Condition 26 (*Compliance Certification*) requires that every permittee who has received NWP verification must submit a signed certification regarding the completed work and any required mitigation within 60 days of having completed the authorized work. The enclosed Compliance Certification card may be utilized for that purpose.

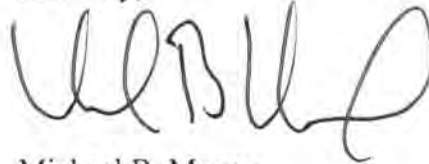
The permittee shall also notify the U.S. Army Corps of Engineers, Mobile District Regulatory Division in writing upon commencement of work authorized by this permit. The enclosed Commencement Certification card may be use for that purpose. Such notification must be provided within 5 days of initiation of the authorized work. The enclosed yellow Notice of Authorization card must be posted at the site during construction of the authorized activity.

A copy of this permit is being provided to the Mississippi Department of Marine Resources, Bureau of Wetlands Permitting and Mitigation, Attention: Mr. Greg Christodoulou, 1141 Bayview Avenue, Biloxi, Mississippi 39530; and Charting and Geodetic Services N/CG222, National Ocean Service NOAA, Rockville, Maryland 20852.

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Please contact me at (251) 694-3771, or by e-mail at Michael.b.moxey@usace.army.mil if you have any questions. For additional information about our Regulatory Program, visit our web site at [www.sam.usace.army.mil/Missions/Regulatory.aspx](http://www.sam.usace.army.mil/Missions/Regulatory.aspx), and please take a moment to complete our customer satisfaction survey while you're there. Your responses are appreciated and will allow us to improve our services.

Sincerely,



Michael B. Moxey  
Team Leader, Inland South  
Regulatory Division

Enclosures

MSW 2/12/2013  
M. MOXEY/3771/awr

FILE

When the structures or work authorized by this nationwide permit SAM-2012-01165-MBM are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFEREE)

\_\_\_\_\_  
(DATE)

NWP #	Waters_Name	Local_Waterway	Cowardin_Code	HGM_Code	Amount	Units	Waters_Types	Latitude	Longitude
1	WBA001	Tributary to Bangs Lake	E2	RIVERINE	0.039236	ACRE	RPW	30.362182	-88.48339
2	WBA002	Little Black Creek	R1	RIVERINE	0.543211	ACRE	TNW	30.441708	-88.495197
2	WBA003	Tributary To Black Creek	E2	RIVERINE	0.011978	ACRE	RPW	30.453436	-88.496383
2	WETA010-E0	Little Black Creek	PEM	RIVERINE	1.049453	ACRE	RPWWD	30.440285	-88.495076
2	WETA010-E1	Little Black Creek	PEM	RIVERINE	0.056191	ACRE	RPWWD	30.442042	-88.495287
2	WETA011-E0	Little Black Creek	PEM	DEPRESS	0.011453	ACRE	NRPPWW	30.443978	-88.495433
2	WETA012-E0	Little Black Creek	PEM	RIVERINE	0.396934	ACRE	NRPPWW	30.445744	-88.495528
2	WETA013-E0	Tributary To Black Creek	PEM	RIVERINE	0.392974	ACRE	NRPPWW	30.447735	-88.495693
2	WETA015-E0	Tributary To Black Creek	PEM	MINSOILFLT	0.216332	ACRE	NRPPWW	30.457139	-88.496995
2	WETA016-E0	Tributary To Black Creek	PEM	MINSOILFLT	0.362438	ACRE	NRPPWW	30.459757	-88.497489
2	WETA017-E0	Tributary To Black Creek	PEM	RIVERINE	0.095255	ACRE	NRPPWW	30.46169	-88.497469
2	WETA018-E0	Tributary To Black Creek	PEM	LACUSTRINF	0.250255	ACRE	NRPPWW	30.464251	-88.497492
2	WETA019-E0	Tributary To Black Creek	PEM	RIVERINE	0.004676	ACRE	NRPPWW	30.467774	-88.497582
2	WETA020-E0	Tributary To Black Creek	PEM	RIVERINE	0.079487	ACRE	NRPPWW	30.473183	-88.497439
2	WETA010-F0	Little Black Creek	PFO	RIVERINE	0.037304	ACRE	RPWWN	30.439109	-88.49493
2	WETA011-F0	Little Black Creek	PFO	DEPRESS	0.183765	ACRE	NRPPWW	30.444467	-88.49542
2	WETA013-F0	Tributary To Black Creek	PFO	RIVERINE	0.196485	ACRE	NRPPWW	30.447669	-88.495692
2	WETA015-F0	Tributary To Black Creek	PFO	MINSOILFLT	0.161557	ACRE	NRPPWW	30.45683	-88.496877
2	WETA016-F0	Tributary To Black Creek	PFO	MINSOILFLT	0.235135	ACRE	NRPPWW	30.459863	-88.497403
2	WETA017-F0	Tributary To Black Creek	PFO	RIVERINE	0.364629	ACRE	NRPPWW	30.462052	-88.497486
2	WETA019-F0	Tributary To Black Creek	PFO	RIVERINE	1.436872	ACRE	NRPPWW	30.469093	-88.49745
2	WETA020-F0	Tributary To Black Creek	PFO	RIVERINE	0.499755	ACRE	NRPPWW	30.472718	-88.497456
2	WETA021-F0	Tributary To Black Creek	PFO	RIVERINE	0.369242	ACRE	RPWWD	30.481021	-88.499277
2	WETA010-S0	Little Black Creek	PSS	RIVERINE	0.0499	ACRE	RPWWD	30.441587	-88.495169
2	WETA010-S1	Little Black Creek	PSS	RIVERINE	0.359759	ACRE	RPWWD	30.442305	-88.49524
3	WBA004	Tributary To Escatampa River	E2	RIVERINE	0.064011	ACRE	RPW	30.480699	-88.49896
3	WETA007-E0	Tributary To Escatampa River	PEM	ORGSOILFLT	0.474504	ACRE	RPWWN	30.431844	-88.49427
3	WETA008-E0	Tributary To Escatampa River	PEM	DEPRESS	0.24165	ACRE	NRPPWW	30.43346	-88.494469
3	WETA009-E0	Tributary To Escatampa River	PEM	ORGSOILFLT	0.725599	ACRE	NRPPWW	30.435953	-88.494658
3	WETA007-F0	Tributary To Escatampa River	PFO	MINSOILFLT	0.392852	ACRE	RPWWN	30.431225	-88.493924
3	WETA008-F0	Tributary To Escatampa River	PFO	DEPRESS	0.114998	ACRE	NRPPWW	30.433225	-88.494449
4	WBA007	Trib to Escatampa	E2	RIVERINE	0.02544	ACRE	RPW	30.541568	-88.471532
5	WETB003-E0	Escatampa River	PEM	RIVERINE	0.282325	ACRE	NRPPWW	30.582393	-88.450722
5	WETB005-E0	Escatampa River	PEM	RIVERINE	0.007548	ACRE	NRPPWW	30.57315	-88.454164
5	WETB007-E0	Escatampa River	PEM	RIVERINE	0.019697	ACRE	NRPPWW	30.570067	-88.455222
5	WETB008-E0	Escatampa River	PEM	RIVERINE	0.302254	ACRE	RPWWN	30.602683	-88.436931
5	WETB009-E0	Escatampa River	PEM	DEPRESS	0.025485	ACRE	NRPPWW	30.614783	-88.422012
5	WETC028-E0	Escatampa River	PEM	RIVERINE	0.106415	ACRE	NRPPWW	30.588061	-88.448668
5	WETC030-E0	Escatampa River	PEM	RIVERINE	1.483488	ACRE	RPWWD	30.5956	-88.445599
5	WETC030-E1	Escatampa River	PEM	RIVERINE	0.006358	ACRE	RPWWD	30.598805	-88.442462
5	WETC030-E2	Escatampa River	PEM	RIVERINE	0.08224	ACRE	RPWWD	30.599426	-88.441593
5	WETB003-F0	Escatampa River	PFO	RIVERINE	1.07348	ACRE	NRPPWW	30.582502	-88.45055
5	WETB004-F0	Escatampa River	PFO	RIVERINE	1.265763	ACRE	RPWWD	30.576724	-88.452742
5	WETB004-F1	Escatampa River	PFO	RIVERINE	0.049036	ACRE	RPWWD	30.578248	-88.452185

Table 1

Waters of U.S.

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5	WETB004-F2	Escatawpa River	PFO	RIVERINE	0.03734	ACRE	RPWWD	30.578351	-88.452137
5	WETB004-F3	Escatawpa River	PFO	RIVERINE	0.06832	ACRE	NRPWV	30.578483	-88.452087
5	WETB004-F4	Escatawpa River	PFO	RIVERINE	0.086014	ACRE	NRPWV	30.57868	-88.452028
5	WETB006-F0	Escatawpa River	PFO	RIVERINE	0.179267	ACRE	NRPWV	30.571028	-88.454834
5	WETB008-F0	Escatawpa River	PFO	RIVERINE	4.442759	ACRE	RPWWD	30.603653	-88.435373
5	WETB009-F0	Escatawpa River	PFO	DEPRESS	0.526511	ACRE	NRPWV	30.614325	-88.42225
5	WETC028-F0	Escatawpa River	PFO	RIVERINE	0.336623	ACRE	NRPWV	30.587937	-88.448587
5	WETC030-F0	Escatawpa River	PFO	RIVERINE	3.624847	ACRE	RPWWD	30.594986	-88.445842
5	WETC030-F1	Escatawpa River	PFO	RIVERINE	0.01204	ACRE	RPWWD	30.598906	-88.442272
5	WETC030-F2	Escatawpa River	PFO	RIVERINE	0.857707	ACRE	RPWWD	30.599512	-88.441345
5	WETB005-S0	Escatawpa River	PSS	RIVERINE	0.400504	ACRE	NRPWV	30.573502	-88.453955
5	WETB007-S0	Escatawpa River	PSS	RIVERINE	0.8715	ACRE	NRPWV	30.569482	-88.454925
5	WBB001	Upper Escatawpa River	R1	RIVERINE	0.273699	ACRE	TNW	30.600429	-88.440052
6	WBG006	Black Creek	R1	RIVERINE	0.543211	ACRE	TNW	30.49824	-88.49695
6	WBC004	Black Creek	E2	RIVERINE	0.005642	ACRE	RPV	30.502095	-88.495605
6	WETA022-E0	Black Creek	PEM	DEPRESS	0.176541	ACRE	NRPWV	30.490198	-88.49857
6	WETA022-E1	Black Creek	PEM	DEPRESS	0.80707	ACRE	NRPWV	30.491761	-88.498159
6	WETA022-E0	Black Creek	PEM	DEPRESS	0.006201	ACRE	NRPWV	30.517697	-88.482751
6	WETA022-E0	Black Creek	PEM	DEPRESS	1.899604	ACRE	NRPWV	30.525149	-88.482924
6	WETA022-E0	Black Creek	PEM	DEPRESS	0.183708	ACRE	NRPWV	30.526788	-88.481729
6	WETA022-E0	Black Creek	PEM	DEPRESS	0.044581	ACRE	NRPWV	30.529116	-88.478395
6	WETA022-E0	Black Creek	PEM	DEPRESS	0.006201	ACRE	NRPWV	30.529116	-88.478395
6	WETA022-F0	Black Creek	PFO	DEPRESS	2.250672	ACRE	NRPWV	30.48817	-88.49911
6	WETA022-F1	Black Creek	PFO	DEPRESS	0.511197	ACRE	NRPWV	30.490734	-88.498419
6	WETA023-F0	Black Creek	PFO	RIVERINE	0.272844	ACRE	RPWWD	30.494282	-88.498115
6	WETA023-F1	Black Creek	PFO	RIVERINE	0.517442	ACRE	RPWWD	30.495018	-88.497904
6	WETA024-F0	Black Creek	PFO	RIVERINE	0.101816	ACRE	RPWWD	30.497525	-88.49718
6	WETA024-F1	Black Creek	PFO	RIVERINE	0.225167	ACRE	RPWWD	30.49793	-88.497067
6	WETA024-F2	Black Creek	PFO	RIVERINE	0.234651	ACRE	RPWWD	30.498524	-88.4969
6	WETA024-F3	Black Creek	PFO	RIVERINE	0.025082	ACRE	RPWWD	30.498825	-88.496858
6	WETA024-F0	Black Creek	PFO	RIVERINE	0.123066	ACRE	NRPWV	30.525218	-88.482971
6	WETA013A-E0	Black Creek	PFO	DEPRESS	0.154254	ACRE	NRPWV	30.48846	-88.499033
6	WETA013A-F0	Black Creek	PFO	DEPRESS	0.000506	ACRE	NRPWV	30.502156	-88.495592
6	WETA022-S0	Black Creek	PSS	MINSOILFLT	5.699956	ACRE	NRPWV	30.505973	-88.493337
6	WETA011-S1	Black Creek	PSS	MINSOILFLT	1.289703	ACRE	NRPWV	30.50881	-88.48887
6	WETA011-S2	Black Creek	PSS	MINSOILFLT	4.113781	ACRE	NRPWV	30.516843	-88.48249
6	WETA012-S0	Black Creek	PSS	MINSOILFLT	1.934126	ACRE	NRPWV	30.527758	-88.48114
6	WETA013B-S0	Black Creek	PSS	MINSOILFLT	1.934126	ACRE	NRPWV	30.529825	-88.473622
7	WBC005	Tributary To Escatawpa River	E2	RIVERINE	0.18916	ACRE	RPV	30.529825	-88.473622
7	WETC015-E0	Tributary To Escatawpa River	PEM	DEPRESS	0.104281	ACRE	RPWWD	30.529608	-88.474354
7	WETC015-E1	Tributary To Escatawpa River	PEM	DEPRESS	0.103253	ACRE	RPWWD	30.529658	-88.473651
7	WETD008-E0	Tributary To Escatawpa River	PEM	MINSOILFLT	0.131962	ACRE	RPWVW	30.552386	-88.471209
7	WETD009-E0	Tributary To Escatawpa River	PEM	MINSOILFLT	0.832893	ACRE	NRPWV	30.556217	-88.46759
7	WETD009-E1	Tributary To Escatawpa River	PEM	MINSOILFLT	0.09838	ACRE	NRPWV	30.561872	-88.46224
7	WETA025-F0	Tributary To Escatawpa River	PFO	MINSOILFLT	3.372373	ACRE	NRPWV	30.533446	-88.471446
7	WETA026-F0	Tributary To Escatawpa River	PFO	RIVERINE	2.482972	ACRE	RPWWD	30.539553	-88.471496

7	WETA026-F1	Tributary To Escatawpa River	PFO	RIVERINE	0.222318	ACRE	RPWWD	30.541749	-88.471514
7	WETC015-F0	Tributary To Escatawpa River	PFO	DEPRESS	0.136076	ACRE	RPWWD	30.529738	-88.473385
7	WETC015-F1	Tributary To Escatawpa River	PFO	DEPRESS	0.410048	ACRE	RPWWD	30.529817	-88.474133
7	WETD005-F0	Tributary To Escatawpa River	PFO	RIVERINE	1.034792	ACRE	NRPWW	30.544245	-88.47154
7	WETD006-F0	Tributary To Escatawpa River	PFO	RIVERINE	0.50567	ACRE	RPWWD	30.546173	-88.471564
7	WETD006-F1	Tributary To Escatawpa River	PFO	RIVERINE	0.090098	ACRE	RPWWD	30.546525	-88.471622
7	WETD006-F2	Tributary To Escatawpa River	PFO	RIVERINE	0.005804	ACRE	RPWWD	30.546699	-88.471424
7	WETD007-F0	Tributary To Escatawpa River	PFO	MINSOILFLT	0.000093	ACRE	RPWWD	30.549764	-88.471767
7	WETD008-F0	Tributary To Escatawpa River	PFO	MINSOILFLT	0.920156	ACRE	RPWWN	30.551834	-88.471281
7	WETD009-F0	Tributary To Escatawpa River	PFO	MINSOILFLT	1.891344	ACRE	NRPWW	30.555128	-88.468466
7	WETD009-F1	Tributary To Escatawpa River	PFO	MINSOILFLT	0.693853	ACRE	NRPWW	30.559647	-88.464199
7	WETD009-F2	Tributary To Escatawpa River	PFO	MINSOILFLT	0.0944534	ACRE	NRPWW	30.563393	-88.46065
7	WETD009-F3	Tributary To Escatawpa River	PFO	MINSOILFLT	0.242171	ACRE	NRPWW	30.564215	-88.459867
7	WETD008-S0	Tributary To Escatawpa River	PSS	MINSOILFLT	0.127466	ACRE	RPWWN	30.552008	-88.471431
7	WETD009-S0	Tributary To Escatawpa River	PSS	MINSOILFLT	1.826189	ACRE	NRPWW	30.557914	-88.465834
7	WETD009-S1	Tributary To Escatawpa River	PSS	MINSOILFLT	2.238561	ACRE	NRPWW	30.561906	-88.462055
7	WETD009-S2	Tributary To Escatawpa River	PSS	MINSOILFLT	0.489641	ACRE	NRPWW	30.563761	-88.460295
8	WBD001	Bayou Cumbest	E2	RIVERINE	0.008219	ACRE	RPV	30.408922	-88.483665
8	WETA005-E0	Bayou Cumbest	PEM	MINSOILFLT	0.928868	ACRE	RPWNN	30.402456	-88.480487
8	WETA006-E0	Bayou Cumbest	PEM	MINSOILFLT	0.000006	ACRE	RPWNN	30.405758	-88.482866
8	WETD001-E0	Bayou Cumbest	PEM	RIVERINE	0.001734	ACRE	NRPWW	30.409222	-88.483729
8	WETA005-F0	Bayou Cumbest	PFO	MINSOILFLT	0.816381	ACRE	RPWNN	30.399605	-88.480215
8	WETA005-F1	Bayou Cumbest	PFO	MINSOILFLT	1.039646	ACRE	RPWNN	30.401163	-88.480189
8	WETA005-F2	Bayou Cumbest	PFO	MINSOILFLT	0.869498	ACRE	RPWNN	30.402914	-88.48038
8	WETA005-F3	Bayou Cumbest	PFO	MINSOILFLT	1.370994	ACRE	RPWNN	30.404657	-88.481776
8	WETA006-F0	Bayou Cumbest	PFO	MINSOILFLT	0.073732	ACRE	RPWNN	30.405726	-88.482742
8	WETD001-F0	Bayou Cumbest	PFO	RIVERINE	0.07682	ACRE	NRPWW	30.409188	-88.483596
9	WBD002	Tributary To Escatawpa River	E1	RIVERINE	0.273201	ACRE	TNW	30.417539	-88.482813
10	WBD003A	Tributary To Escatawpa River	E2	RIVERINE	0.012823	ACRE	RPV	30.546504	-88.471538
11	WBD004A	Tributary To Escatawpa River	E2	RIVERINE	0.082912	ACRE	RPV	30.54828	-88.471461
12	WETG001-E0	Escatawpa River	E2EM	ORGSOILFLT	2.306704	ACRE	TNWW	30.425325	-88.490205
12	WETG002-E0	Escatawpa River	E2EM	ORGSOILFLT	1.480351	ACRE	RPWWD	30.429894	-88.493077
12	WETD003-F0	Tributary To Escatawpa River	PFO	ORGSOILFLT	2.372595	ACRE	RPWNN	30.415524	-88.4828
12	WBG007	Lower Escatawpa River	R1	RIVERINE	0.306914	ACRE	TNW	30.421556	-88.488021
13	WBG008	Tributary To Escatawpa River	E2	RIVERINE	0.03972	ACRE	TNV	30.428796	-88.492387
14	WBG011	Tributary To Bangs Lake	E2	RIVERINE	0.020695	ACRE	RPV	30.355996	-88.487114
15	WBG012	Tributary To Bangs Lake	E2	RIVERINE	0.02058	ACRE	RPV	30.355345	-88.488546
16	WETA002-E0	Bangs Lake	PEM	MINSOILFLT	0.020132	ACRE	TNWW	30.355914	-88.483128
16	WETA003-E0	Bangs Lake	PEM	MINSOILFLT	0.134436	ACRE	TNWW	30.369475	-88.48335
16	WETA003-E1	Bangs Lake	PEM	MINSOILFLT	3.666266	ACRE	RPWNN	30.387883	-88.480184
16	WETG005-E0	Bangs Lake	PEM	MINSOILFLT	0.062469	ACRE	RPWWD	30.355411	-88.488546
16	WETG005-E1	Bangs Lake	PEM	MINSOILFLT	0.241702	ACRE	RPWWD	30.355136	-88.488547
16	WETG005-E2	Bangs Lake	PEM	MINSOILFLT	0.039566	ACRE	RPWWD	30.354811	-88.488548
16	WETA002-F0	Bangs Lake	PFO	MINSOILFLT	2.971802	ACRE	TNWW	30.35954	-88.483321

16	WETA003-F0	Bangs Lake	PFO	MINSOILFLT	3.973211	ACRE	TNWW	30.366186	-88.483325
16	WETA003-F1	Bangs Lake	PFO	MINSOILFLT	0.027821	ACRE	TNWW	30.369468	-88.483355
16	WETA003-F2	Bangs Lake	PFO	MINSOILFLT	2.61661	ACRE	TNWW	30.376162	-88.480005
16	WETA003-F3	Bangs Lake	PFO	MINSOILFLT	2.995657	ACRE	RPWWN	30.381341	-88.480093
16	WETA003-F4	Bangs Lake	PFO	MINSOILFLT	0.077068	ACRE	RPWWN	30.384325	-88.48026
16	WETA003-F5	Bangs Lake	PFO	MINSOILFLT	2.025548	ACRE	RPWWN	30.38626	-88.480261
16	WETA003-F6	Bangs Lake	PFO	MINSOILFLT	2.811363	ACRE	RPWWN	30.391311	-88.480315
16	WETA003-F7	Bangs Lake	PFO	MINSOILFLT	1.896313	ACRE	RPWWN	30.397463	-88.480264
16	WETA002-S0	Bangs Lake	PSS	MINSOILFLT	0.904027	ACRE	TNWW	30.356455	-88.483245
16	WETA003-S0	Bangs Lake	PSS	MINSOILFLT	3.133356	ACRE	TNWW	30.3717	-88.481736
16	WETA003-S0	Bangs Lake	PSS	MINSOILFLT	0.826683	ACRE	TNWW	30.355988	-88.484306
16	WETA005-S1	Bangs Lake	PSS	MINSOILFLT	0.972171	ACRE	RPWWWD	30.355993	-88.4862
16	WETA005-S3	Bangs Lake	PSS	MINSOILFLT	1.218603	ACRE	RPWWWD	30.35589	-88.488086

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Plains Southcan Pipeline  
 Table 2  
 Corps Mitigation  
 1/2

NWP 12 Project No.	FGT Wetland/Waterbody ID	Local Waterway	Jurisdictional Type (Wetland/Stream)	Wetland/Stream Type	Latitude (dd NAD83)	Longitude (dd NAD83)	PFO Wetlands to revert to PFO (0.25:1)	PFO Wetlands converted to PSS (0.5:1)	PFO Wetlands converted to PEM (1:1)	Total Credits 0.25:1	Total Credits 0.5:1	Total Credits 1:1	Total Mitigation Credits	state
2	WETA010-F0	Escatawpa River	Wetland	PFO	30.439109	-88.49493	0	0	0.037304	0	0	0.037304	0.037304	MS
2	WETA010-S0	Escatawpa River	Wetland	PSS	30.441587	-88.495169	0	0.0499	0	0	0.02495	0	0.02495	MS
2	WETA010-S1	Escatawpa River	Wetland	PSS	30.442305	-88.49524	0	0.359758	0	0	0.179879	0	0.179879	MS
2	WETA011-F0	Escatawpa River	Wetland	PFO	30.444467	-88.49542	0.044976	0	0.138789	0.011244	0	0.138789	0.150033	MS
2	WETA013-F0	Black Creek	Wetland	PFO	30.447669	-88.495692	0.056336	0	0.14013	0.014089	0	0.14013	0.154219	MS
2	WETA015-F0	Black Creek	Wetland	PFO	30.455683	-88.496877	0.06991	0	0.091647	0.017478	0	0.091647	0.109124	MS
2	WETA016-F0	Black Creek	Wetland	PFO	30.459863	-88.497403	0.120866	0	0.114269	0.030217	0	0.114269	0.144485	MS
2	WETA017-F0	Black Creek	Wetland	PFO	30.462052	-88.497486	0.111436	0	0.253192	0.027859	0	0.253192	0.281052	MS
2	WETA019-F0	Black Creek	Wetland	PFO	30.469093	-88.49745	0.588815	0	0.848053	0.147204	0	0.848053	0.995257	MS
2	WETA020-F0	Black Creek	Wetland	PFO	30.472718	-88.497456	0.181169	0	0.318586	0.045292	0	0.318586	0.363878	MS
2	WETA021-F0	Black Creek	Wetland	PFO	30.481021	-88.499277	0.128988	0	0.240254	0.032247	0	0.240254	0.272501	MS
3	WETA007-F0	Escatawpa River	Wetland	PFO	30.431225	-88.493924	0.132514	0	0.260339	0.033128	0	0.260339	0.293467	MS
3	WETA008-F0	Escatawpa River	Wetland	PFO	30.433225	-88.494449	0.021737	0	0.09326	0.005434	0	0.09326	0.098695	MS
5	WETA003-F0	Escatawpa River	Wetland	PFO	30.582502	-88.45055	0.481812	0	0.591668	0.120453	0	0.591668	0.712121	MS
5	WETA004-F0	Escatawpa River	Wetland	PFO	30.576724	-88.452742	0	0	1.265763	0	0	1.265763	1.265763	MS
5	WETA004-F1	Escatawpa River	Wetland	PFO	30.578248	-88.452185	0	0	0.049036	0	0	0.049036	0.049036	MS
5	WETA004-F2	Escatawpa River	Wetland	PFO	30.578351	-88.452137	0	0	0.03734	0	0	0.03734	0.03734	MS
5	WETA004-F3	Escatawpa River	Wetland	PFO	30.578483	-88.452087	0	0	0.068319	0	0	0.068319	0.068319	MS
5	WETA004-F4	Escatawpa River	Wetland	PFO	30.57868	-88.452028	0	0	0.086014	0	0	0.086014	0.086014	MS
5	WETA005-F0	Escatawpa River	Wetland	PSS	30.575502	-88.453955	0	0.400504	0	0	0.200252	0	0.200252	MS
5	WETA006-F0	Escatawpa River	Wetland	PFO	30.571028	-88.454834	0.070375	0	0.108892	0.017594	0	0.108892	0.126486	MS
5	WETA007-S0	Escatawpa River	Wetland	PSS	30.569482	-88.454925	0.290602	0.580898	0	0.072651	0.290449	0	0.363099	MS
5	WETA008-F0	Escatawpa River	Wetland	PFO	30.603653	-88.435373	1.142489	0	3.300276	0.285622	0	3.300276	3.585898	MS
5	WETA009-F0	Escatawpa River	Wetland	PFO	30.614325	-88.42225	0.16864	0	0.357871	0.04216	0	0.357871	0.400031	MS
5	WETA028-F0	Bayou Cumbest	Wetland	PFO	30.587937	-88.448587	0.1408	0	0.195823	0.0352	0	0.195823	0.231023	MS
5	WETA030-F0	Bayou Cumbest	Wetland	PFO	30.594986	-88.445842	1.473222	0	2.201625	0.355805	0	2.201625	2.557431	MS
5	WETA030-F1	Bayou Cumbest	Wetland	PFO	30.598906	-88.442272	0	0	0.01204	0	0	0.01204	0.01204	MS
5	WETA030-F2	Bayou Cumbest	Wetland	PFO	30.599512	-88.441345	0	0	0.857707	0	0	0.857707	0.857707	MS
6	WETA022-F0	Black Creek	Wetland	PFO	30.48817	-88.49911	0.741887	0	1.508787	0.185472	0	1.508787	1.694259	MS
6	WETA022-F1	Black Creek	Wetland	PFO	30.490734	-88.498419	0.186715	0	0.324482	0.046679	0	0.324482	0.371161	MS
6	WETA022-S0	Black Creek	Wetland	PSS	30.48846	-88.499033	0.049813	0.104442	0	0.012453	0.052221	0	0.064674	MS
6	WETA023-F0	Black Creek	Wetland	PFO	30.494282	-88.498115	0.09145	0	0.181394	0.022862	0	0.181394	0.204257	MS
6	WETA023-F1	Black Creek	Wetland	PFO	30.495018	-88.497904	0.140745	0	0.376696	0.035186	0	0.376696	0.411882	MS
6	WETA024-F0	Black Creek	Wetland	PFO	30.497525	-88.49718	0	0	0.101816	0	0	0.101816	0.101816	MS
6	WETA024-F1	Black Creek	Wetland	PFO	30.49793	-88.497067	0	0	0.225167	0	0	0.225167	0.225167	MS
6	WETA024-F2	Black Creek	Wetland	PFO	30.498524	-88.4969	0	0	0.234651	0	0	0.234651	0.234651	MS
6	WETA024-F3	Black Creek	Wetland	PFO	30.498825	-88.496858	0	0	0.025082	0	0	0.025082	0.025082	MS
6	WETA011-S0	Black Creek	Wetland	PSS	30.502156	-88.495592	0.000506	0	0	0.000127	0	0	0.000127	MS
6	WETA011-S1	Black Creek	Wetland	PSS	30.505973	-88.493337	1.900726	3.799229	0	0.475182	1.899615	0	2.374796	MS
6	WETA011-S2	Black Creek	Wetland	PSS	30.50881	-88.48887	0.434887	0.854816	0	0.108722	0.427408	0	0.53613	MS
6	WETA012-S0	Black Creek	Wetland	PSS	30.516843	-88.48249	2.002779	2.111002	0	0.500695	1.055501	0	1.556196	MS
6	WETA013A-F0	Black Creek	Wetland	PFO	30.525218	-88.482971	0.01038	0	0.112685	0.002595	0	0.112685	0.11528	MS
6	WETA013B-S0	Black Creek	Wetland	PSS	30.527758	-88.48114	0.704456	1.22967	0	0.176114	0.614835	0	0.790949	MS

7	WETA025-F0	Black Creek	Wetland	PFO	30.533446	-88.471446	1.202443	0	2.169936	0.300611	0	2.169936	2.470547	MS
7	WETA026-F0	Black Creek	Wetland	PFO	30.533953	-88.471496	0.831017	0	1.651955	0.207754	0	1.651955	1.859709	MS
7	WETA026-F1	Black Creek	Wetland	PFO	30.541749	-88.471514	0.063298	0	0.15902	0.015824	0	0.15902	0.174845	MS
7	WETA015-F0	Black Creek	Wetland	PFO	30.529738	-88.473585	0.045568	0	0.090507	0.011392	0	0.090507	0.101899	MS
7	WETA015-F1	Black Creek	Wetland	PFO	30.529817	-88.474133	0.274421	0	0.135627	0.068605	0	0.135627	0.204233	MS
7	WETA005-F0	Black Creek	Wetland	PFO	30.544245	-88.47154	0.355599	0	0.679193	0.0889	0	0.679193	0.768093	MS
7	WETA006-F0	Black Creek	Wetland	PFO	30.546173	-88.471564	0.206556	0	0.299134	0.051634	0	0.299134	0.350788	MS
7	WETA006-F1	Black Creek	Wetland	PFO	30.546525	-88.471622	0.056145	0	0.033953	0.014036	0	0.033953	0.04799	MS
7	WETA006-F2	Black Creek	Wetland	PFO	30.546699	-88.471424	0	0	0.005804	0	0	0.005804	0.005804	MS
7	WETA008-F0	Black Creek	Wetland	PFO	30.549764	-88.471767	0.000093	0	0.000023	0	0	0.000023	0.000023	MS
7	WETA008-F0	Black Creek	Wetland	PFO	30.551834	-88.471281	0.433107	0	0.487049	0.108277	0	0.487049	0.555326	MS
7	WETA008-S0	Black Creek	Wetland	PSS	30.552008	-88.471431	0.020054	0	0.005013	0	0	0.005013	0.058719	MS
7	WETA009-F0	Escatawpa River	Wetland	PFO	30.555128	-88.468466	0.797007	0	1.094337	0.199252	0	1.094337	1.293589	MS
7	WETA009-F1	Escatawpa River	Wetland	PFO	30.559647	-88.464199	0.244048	0	0.449806	0.061012	0	0.449806	0.510817	MS
7	WETA009-F2	Escatawpa River	Wetland	PFO	30.563393	-88.46065	0.028701	0	0.065833	0.007175	0	0.065833	0.073008	MS
7	WETA009-F3	Escatawpa River	Wetland	PFO	30.564215	-88.459867	0.080891	0	0.16128	0.020223	0	0.16128	0.181503	MS
7	WETA009-S0	Escatawpa River	Wetland	PSS	30.557914	-88.465834	0.701628	1.124561	0	0.175407	0.562281	0	0.737688	MS
7	WETA009-S1	Escatawpa River	Wetland	PSS	30.561906	-88.462055	0.777868	1.460693	0	0.194467	0.730347	0	0.924814	MS
7	WETA009-S2	Escatawpa River	Wetland	PSS	30.563761	-88.460295	0.168901	0.320741	0	0.042225	0.16037	0	0.202595	MS
8	WETA005-F0	Bayou Cumbest	Wetland	PFO	30.399605	-88.480215	0.370981	0	0.4454	0.092745	0	0.4454	0.538145	MS
8	WETA005-F1	Bayou Cumbest	Wetland	PFO	30.401163	-88.480189	0.493009	0	0.546637	0.123252	0	0.546637	0.669889	MS
8	WETA005-F2	Bayou Cumbest	Wetland	PFO	30.402914	-88.48038	0.351871	0	0.517627	0.087968	0	0.517627	0.605595	MS
8	WETA005-F3	Bayou Cumbest	Wetland	PFO	30.404657	-88.481776	0.541241	0	0.829754	0.13531	0	0.829754	0.965064	MS
8	WETA006-F0	Bayou Cumbest	Wetland	PFO	30.405726	-88.482742	0	0	0.073732	0	0	0.073732	0.073732	MS
8	WETA001-F0	Bayou Cumbest	Wetland	PFO	30.409188	-88.483596	0.032127	0	0.044693	0.008032	0	0.044693	0.052725	MS
12	WETA003-F0	Escatawpa River	Wetland	PFO	30.415524	-88.4828	1.346475	0	0.912653	0.336619	0	0.912653	1.249252	MS
12	WETA004-F0	Escatawpa River	Wetland	PFO	30.419177	-88.48561	1.324994	0	2.549677	0.331249	0	2.549677	2.880925	MS
16	WETA002-F0	Bangs Lake	Wetland	PFO	30.35954	-88.483321	1.080201	0	1.891601	0.27005	0	1.891601	2.161651	MS
16	WETA002-S0	Bangs Lake	Wetland	PSS	30.356455	-88.483245	0.30612	0.597908	0	0.07653	0.298954	0	0.375484	MS
16	WETA003-F0	Bangs Lake	Wetland	PFO	30.366186	-88.483325	1.32569	0	2.647521	0.331423	0	2.647521	2.978944	MS
16	WETA003-F1	Bangs Lake	Wetland	PFO	30.369468	-88.483355	0.005969	0	0.021853	0.001492	0	0.021853	0.023345	MS
16	WETA003-F2	Bangs Lake	Wetland	PFO	30.376162	-88.480005	1.103126	0	1.513484	0.275782	0	1.513484	1.789265	MS
16	WETA003-F3	Bangs Lake	Wetland	PFO	30.381341	-88.480093	1.206875	0	1.788776	0.301719	0	1.788776	2.056184	MS
16	WETA003-F4	Bangs Lake	Wetland	PFO	30.384325	-88.48026	0.027846	0	0.049222	0.006961	0	0.049222	0.056184	MS
16	WETA003-F5	Bangs Lake	Wetland	PFO	30.38626	-88.480261	0.675378	0	1.350161	0.168845	0	1.350161	1.519005	MS
16	WETA003-F6	Bangs Lake	Wetland	PFO	30.391311	-88.480315	1.337033	0	1.47433	0.334258	0	1.47433	1.808588	MS
16	WETA003-F7	Bangs Lake	Wetland	PFO	30.397463	-88.480264	0.769573	0	1.126739	0.192393	0	1.126739	1.319133	MS
16	WETA003-S0	Bangs Lake	Wetland	PSS	30.3717	-88.481736	1.039105	2.094251	0	0.259776	1.047126	0	1.306902	MS
16	WETG005-S0	Bangs Lake	Wetland	PSS	30.355988	-88.484306	0.275836	0.550847	0	0.0068959	0.275423	0	0.344382	MS
16	WETG005-S1	Bangs Lake	Wetland	PSS	30.355993	-88.4862	0.324231	0.647941	0	0.081058	0.32397	0	0.405028	MS
16	WETG005-S3	Bangs Lake	Wetland	PSS	30.35589	-88.488086	0.454118	0.764485	0	0.113529	0.382242	0	0.495772	MS
GRAND TOTAL					32.118175	17.159058	40.026231	8.029544	8.579529	40.026231	56.655306			

**SWCA**  
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SWCA, Development Consultant  
7555 Langley, Suite 100  
Tomball, Texas 77375  
(713) 834-9999 fax  
www.swca.com



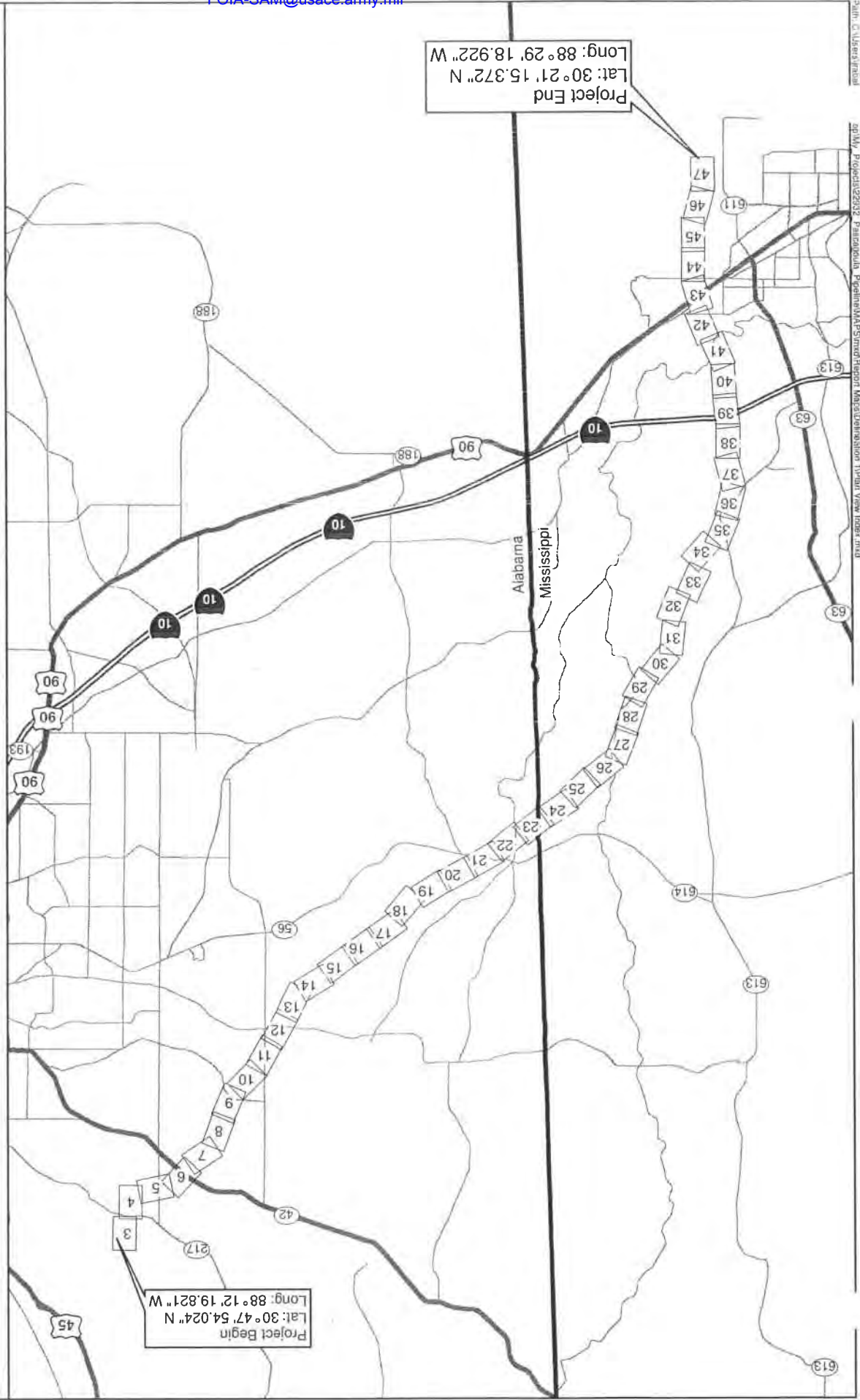
North Arrow  
U.S. Survey Feet  
Scale 1:50,000

Background Data:  
Topographic Data Source: (50% Base Map)  
Map Date: 08/2012  
Approved By: SWCA  
SWCA Project No: 22813  
Data Produced: 08/2012  
Revision Date:



Plan View  
**LEGEND**

**PLAINS**  
**SOUTHCAP L.L.C.**  
**PLAN VIEW INDEX**  
**41-MILE-LONG TEN-MILE**  
**PIPELINE PROJECT**  
**JACKSON COUNTY, MS**  
**MOBILE COUNTY, AL**  
Page 2 of 47



Project End  
Lat: 30° 21' 15.372" N  
Long: 88° 29' 18.922" W

Project Begin  
Lat: 30° 47' 54.024" N  
Long: 88° 12' 19.821" W

g:\M\Projects\2012\_Pascagoula\_Pipeline\Map\MapIndex\Plan View Index.mxd  
John C. Waters/Janet

**SWCA**  
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Sheet 23 of 47

**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**MISSISSIPPI / ALABAMA**

	Centerline		Permanent ROW
	Temporary ROW		PEM
	Additional Workspace		PFO
	200' Survey		PSS
	Unsurveyed Areas		EEM
	Streams		Sample Point
	Milepost		HDD Entry/Exit

COMMENT  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2013)  
Approved By: Preliminary Draft  
SWCA Project No: 22932  
Date Produced: Revision 03/13

Scale: 1 inch = 500 feet



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Sheet 24 of 47

**PLAINS SOUTHCAP L.L.C.**  
PLAN VIEW  
41-MILE-LONG TEN-MILE FACILITY TO  
PASCAGOULA PIPELINE PROJECT  
JACKSON COUNTY, MS

	Centerline		PEM		Sample Point
	Permanent ROW		PFO		Milepost
	Temporary ROW		PSS		HDD Entry/Exit
	Additional Workspace		EEM		
	200' Survey		Streams		
	Unsurveyed Areas				

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Paulina P. Smith  
SWCA Project No: 22032  
Date Produced: 8/20/2012  
Revision Date:  
300 Feet  
0 250 500  
Coordinate System: NAD 1983 (2011) Zone 16N





**SWCA**  
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Sheet 25 of 47

**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

	Centerline		PEM		Sample Point
	Permanent ROW		PFO		Milepost
	Temporary ROW		PSS		HDD Entry/Exit
	Additional Workspace		EEM		
	200' Survey		Streams		
	Unsurveyed Areas				

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Pauline J. J...  
SWCA Project No: 22932  
Date Produced: 8/20/2012  
Revision Date:  
300 Feet  
0 300 600  
Coordinate System: NAD 83 (1174 Zone 18E)  
Units: Feet US



**SWCA**  
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Sheet 25 of 47

**PLAINS SOUTHCAP L.L.C.**  
PLAN VIEW  
**41-MILE-LONG TEN-MILE FACILITY TO PASCAGOULA PIPELINE PROJECT JACKSON COUNTY, MS**

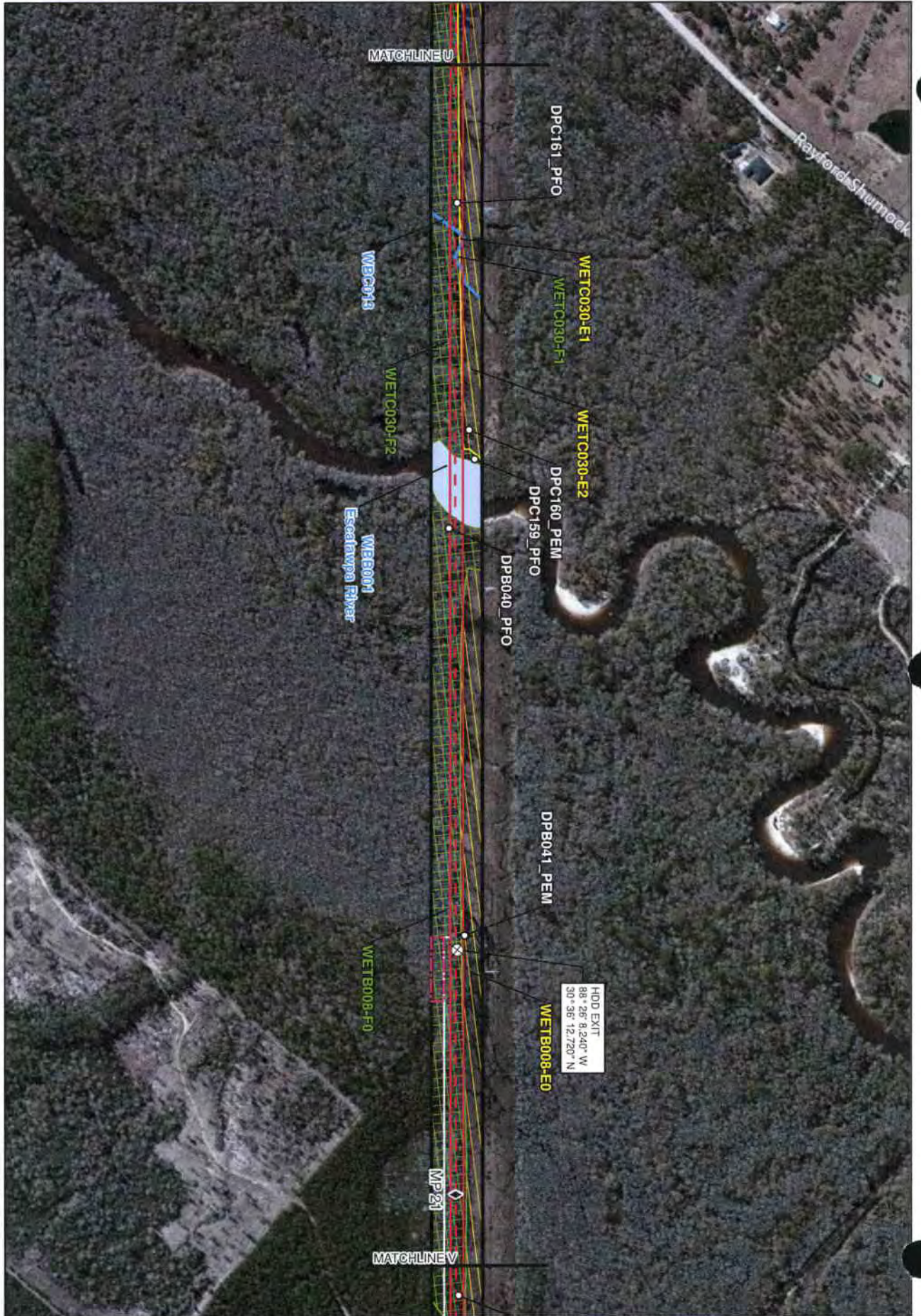
	Centerline		Permanent ROW
	Temporary ROW		PEM
	Additional Workspace		PFD
	200' Survey		PSS
	Unsurveyed Areas		EEM
			Sigcons

	Sample Point
	Milepost
	HDD Entry/Exit

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Mapset: JH  
Approved By: Pauline  
SWCA Project No.: 22932  
Date Produced: 8/20/2012  
Revision Date:  
Scale: 1" = 300'



**SWCA**  
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Sheet 27 of 47

**PLAINS SOUTHCAP L.L.C.**  
PLAN VIEW  
41-MILE-LONG TEN-MILE FACILITY TO  
PASCAGOULA PIPELINE PROJECT  
JACKSON COUNTY, MS

--- Contourline  
--- Permanent ROW  
--- Temporary ROW  
--- Additional Workspace  
--- 2017 Survey  
--- Unsurveyed Areas

PEM  
PRO  
PSS  
EEM  
--- Sloicams

○ Sample Point  
◆ Milepost  
◆ HDD Entry/Exit

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Pauline M. Hester  
SWCA Project No: 22932  
Date Produced: 8/20/2012  
Revision: 046

0 200 300 Feet  
Coordinate System: NAD 83 UTM Zone 18N



Path: C:\Users\jabin\Desktop\My\_Projects\22932\_Pascagoula\_Pipeline\Map\Report Maps\PCN Plan Views.mxd



**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

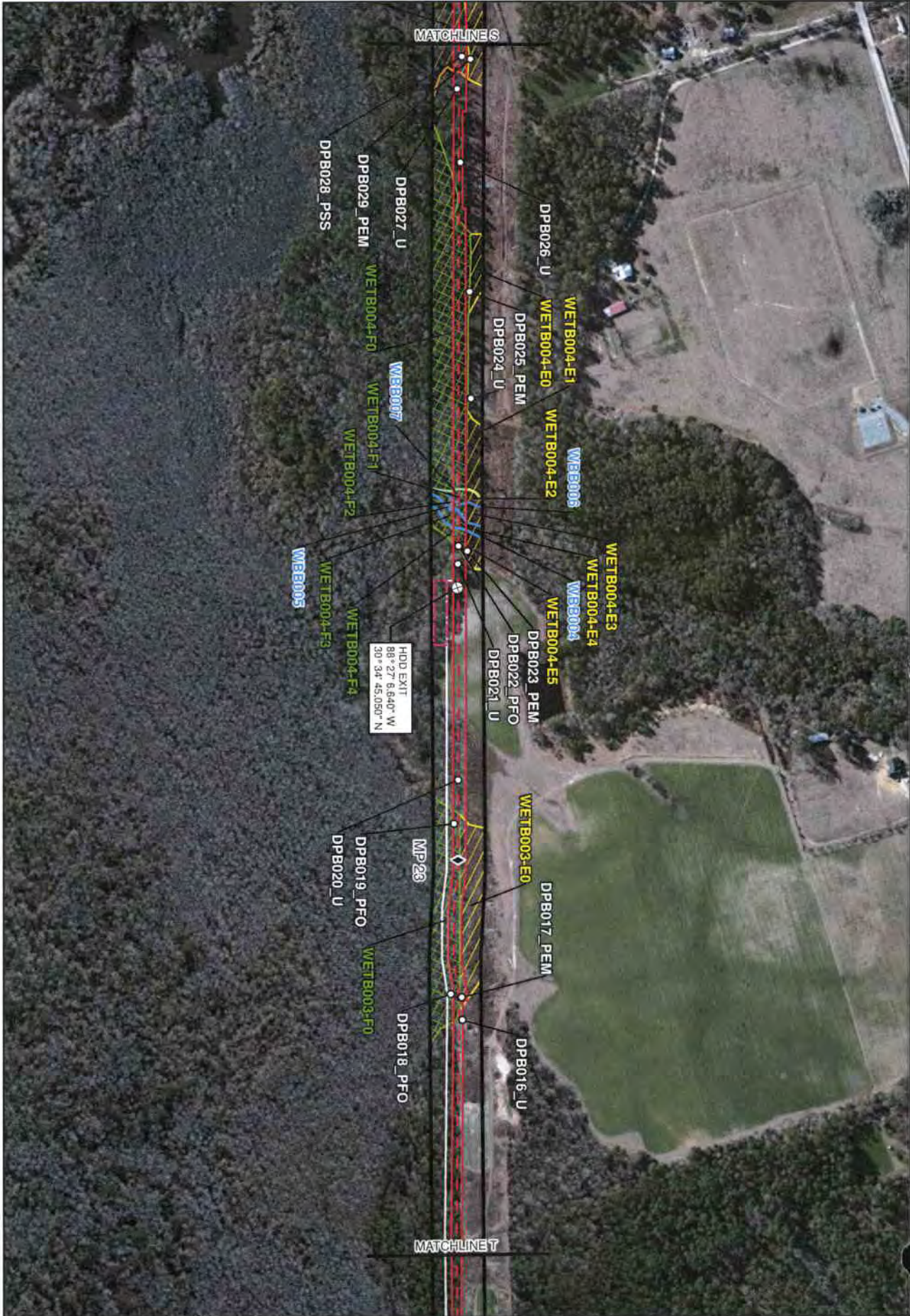
	Centerline
	Permanent ROW
	Temporary ROW
	Additional Workspaces
	2007 Survey
	Unsurveyed Areas
	PEM
	PFO
	PSS
	EEM
	Streams
	Sample Point
	Milepost
	HDD Entry/Exit

COMMENT:  
 USAGE: MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
 Approved By: Preliminary Draft  
 SWCA Project No: 22932  
 Date Produced: 8/20/2012  
 Revision: 0001  
 Revision Date:

0 250 500 Feet

Cardinal System: WAD 190117101.com 1811



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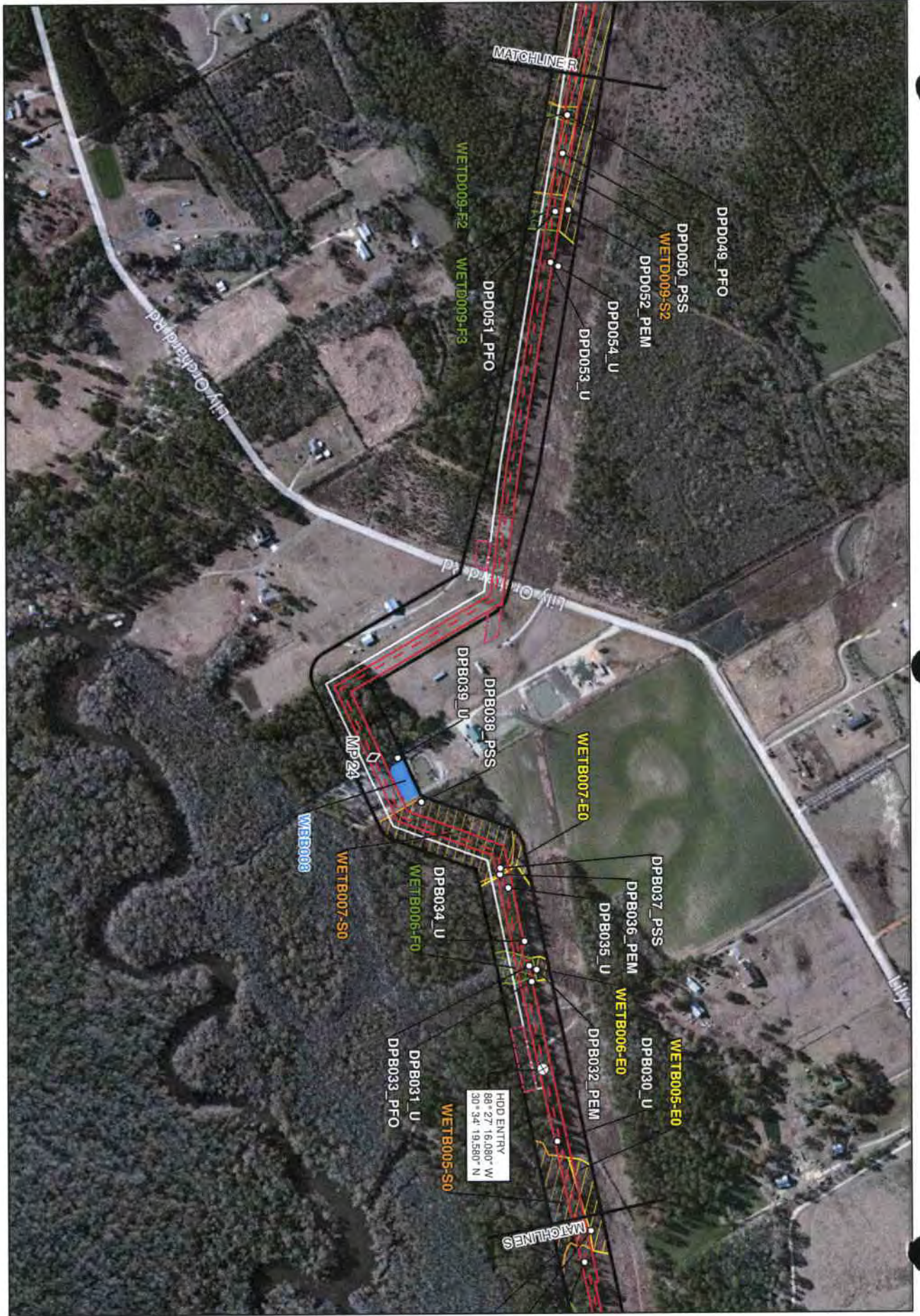
**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

- Centerline
- Permanent ROW
- Temporary ROW
- Additional Workspace
- 200' Survey
- Unsurveyed Areas
- PEM
- PFO
- PSS
- EEM
- Streams
- Sample Point
- Milepost
- HDD Entry/Exit

COMMENT:  
 USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
 Approved By: Preliminary Draft  
 SWCA Project No: 22932  
 Date Printed: 11/11/11  
 Revision: 01/11/11

Scale: 0, 200, 400 Feet  
 Coordinate System: NAD 1983 UTM Zone 18N





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**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

	Geneline
	Permanent Flow
	Temporary Flow
	Additional Workspace
	200' Survey
	Unsurveyed Areas

	PEM
	PFO
	PSS
	EEM
	Streams

	Sample Point
	Milepost
	HDD Entry/Exit

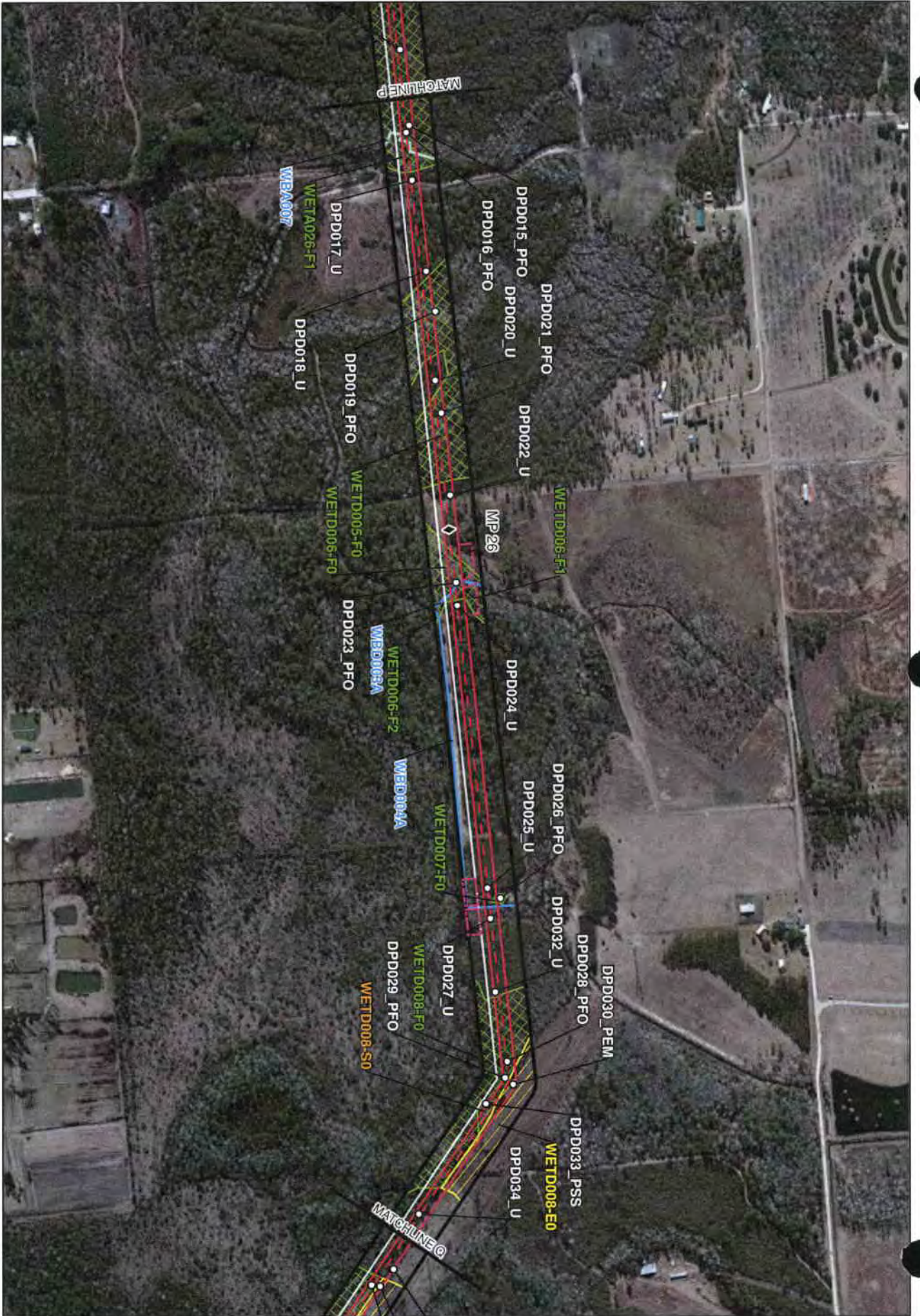
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 USACE MOBILE DISTRICT



Background: Bing Maps Hybrid (01/12)  
 Approved By: Project Manager, JRM  
 SWCA Project No: 22002  
 Date Produced: 8/31/2012  
 Revision: 0001

0 200 400 Feet





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**PLAINS SOUTHCAP L.L.C.**  
PLAN VIEW  
41-MILE-LONG TEN-MILE FACILITY TO  
PASCAGOULA PIPELINE PROJECT  
JACKSON COUNTY, MS

	Centerline		Permanent ROW
	Temporary ROW		PEM
	Additional Workspace		PFO
	20th Survey		PSS
	Unsurveyed Areas		EEM
			Streams
	Sample Point		Milepost
	HDD Entry/Exit		

COMMENT:  
USAGE: MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Preliminary Draft  
SWCA Project No: 22932  
Date Produced: 02/02/12  
Revision: 001  
Scale: 1" = 300'

3  
0 150 300  
Feet  
Scale: 1" = 300'

Path: C:\Users\jacobalae\Desktop\My\_Projects\22932\_Pascagoula\_Pipeline\MAPS\mg\Report\Map\PCN Plan Views.mxd

FOIA-SAM@usace.army.mil



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Sheet 32 of 47

**PLAINS SOUTHCAP L.L.C.**

**PLAN VIEW**

**41-MILE-LONG TEN-MILE FACILITY TO PASCAGOULA PIPELINE PROJECT JACKSON COUNTY, MS**

--- Centerline  
 Permanent Row  
 Temporary Row  
 Additional Workspace  
 200' Survey  
 Unsurveyed Areas

PEM  
 PFO  
 PSS  
 EEM  
 Streams

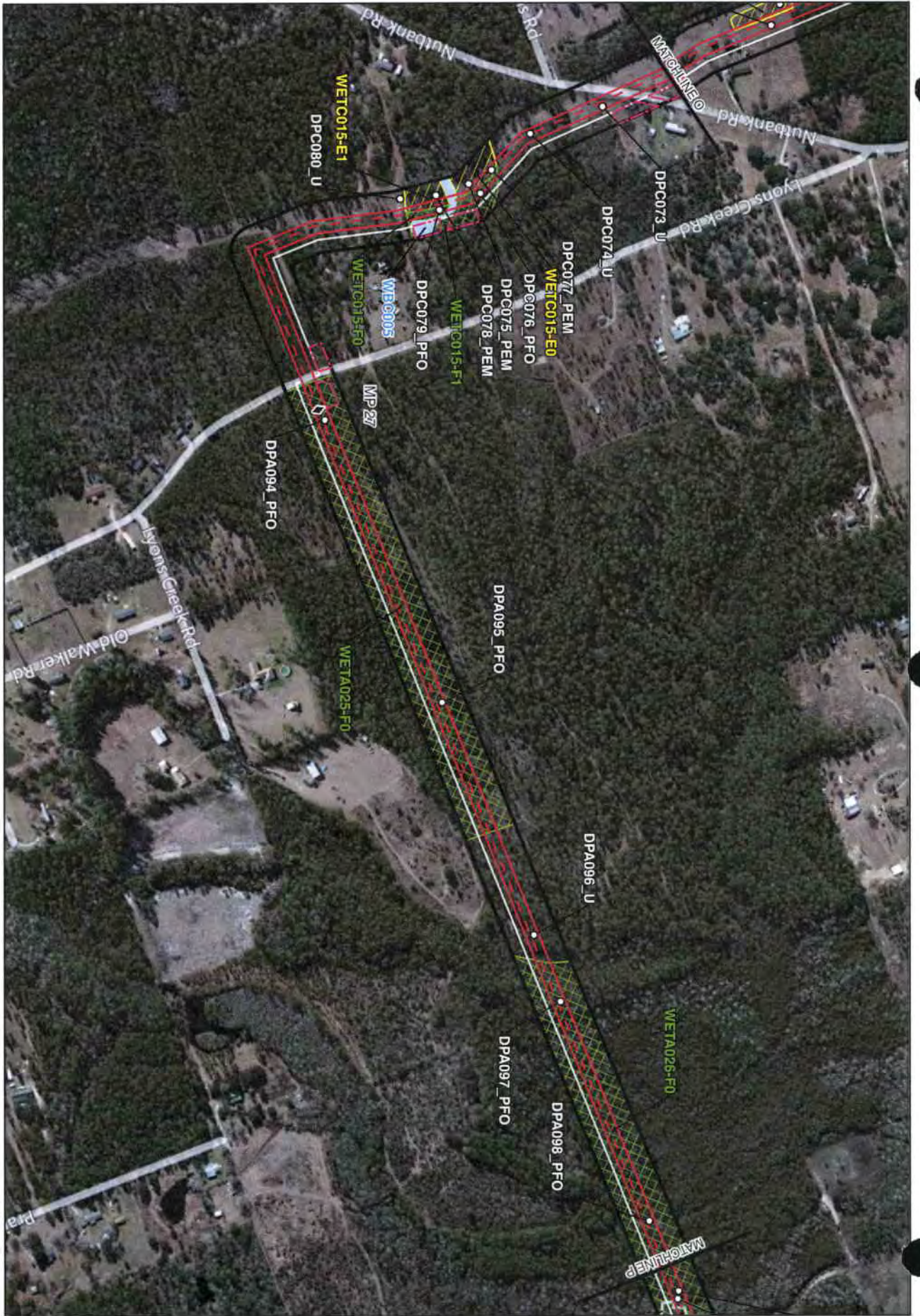
○ Sample Point  
 ◆ Milepost  
 ◆ HDD Entry/Exit

COMMENT:  
 USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
 Approved By: Pauline J.H.  
 SWCA Project No: 22932  
 Date Produced: 02/20/12  
 Revision: None

Mapet: J.H.  
 Date: 02/20/12  
 Scale: 1" = 100'





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**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

	Centerline
	Permanent flow
	Temporary flow
	Additional workspace
	2007 Survey
	Unsurveyed Areas
	PEM
	PFO
	PSS
	EEM
	Streams
	Sample Point
	Milestone
	HDD Entry/Exit

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Preliminary Draft  
SWCA Project No: 22932  
Date Produced: 8/20/2012  
Revision Date:  
Scale: 1" = 100'  
Coordinate System: NAD 83 / UTM Zone 18N  
Units: Feet



Path: C:\Users\jgabalo@usace\Documents\47\_Pascagoula\_Trip\Info\MAP\5\env\Flight Master\47-PCN Plan Views.mxd

FOIA-SAM@usace.army.mil

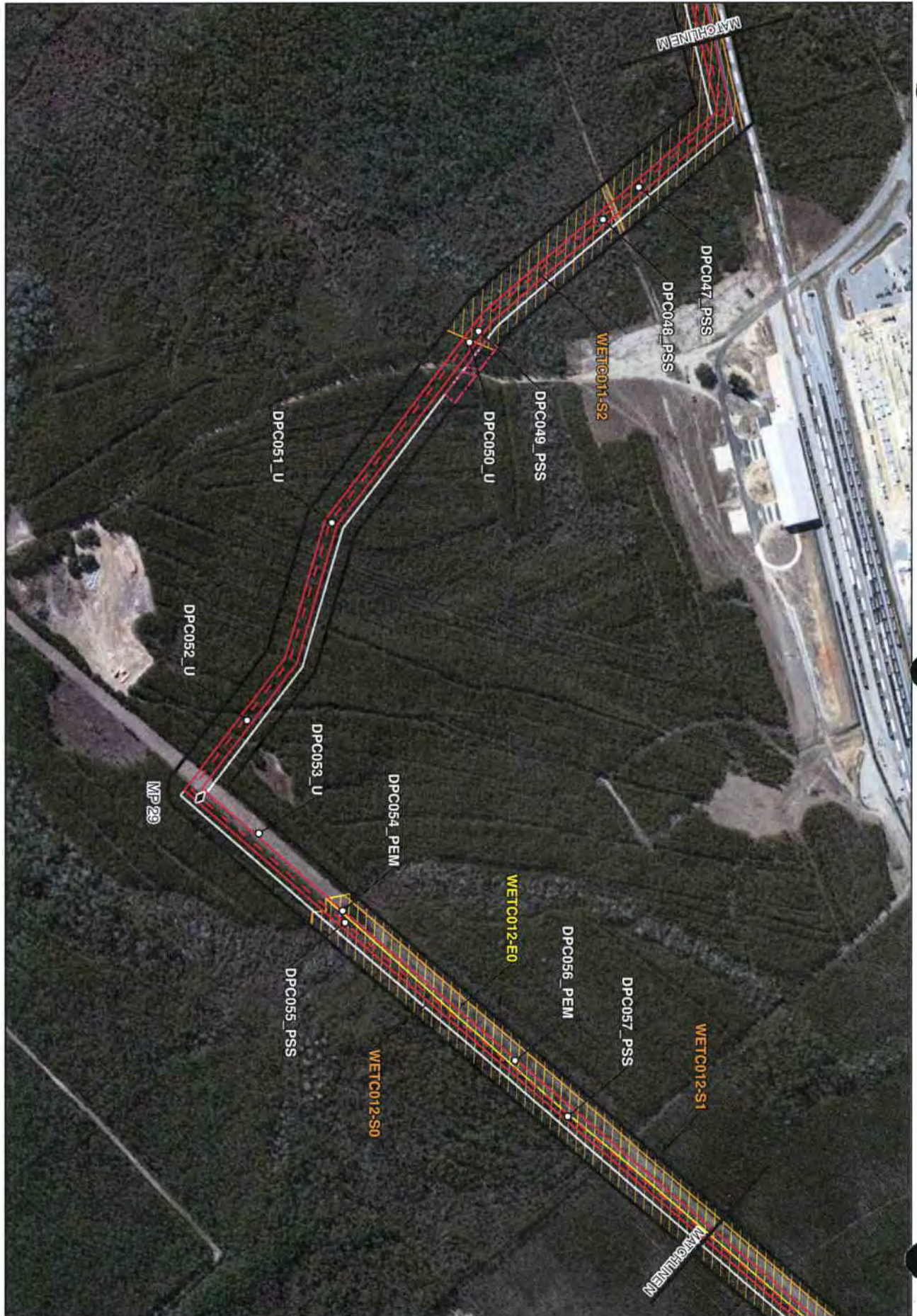
**SWCA**  
ENVIRONMENTAL CONSULTANTS  
Sheet 34 of 47

**PLAINS SOUTHCAP L.L.C.  
PLAN VIEW  
41-MILE-LONG TEN-MILE FACILITY TO  
PASCAGOULA PIPELINE PROJECT  
JACKSON COUNTY, MS**

	Contourline		Permanent Row		PEM		Sample Point
	Temporary Row		Additional Workspaces		PFO		Milepost
	2010 Survey		Streams		PSS		HDD Entry/Exit
	Unsurveyed Areas				EM		

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Paulina M. Hopper-Johnson  
SWCA Project No. 220012  
Date Produced: 8/20/2012  
Northern Hemisphere  
Scale: 1:50,000  
North Arrow  
Graphic Scale: 0, 100, 200, 300 Feet





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ENVIRONMENTAL CONSULTANTS  
Sheet 35 of 47

**PLAINS SOUTHCAP L.L.C.**  
PLAN VIEW  
41-MILE-LONG TEN-MILE FACILITY TO  
PASCAGOULA PIPELINE PROJECT  
JACKSON COUNTY, MS

	Centerline		PEM		Sample Point
	Permanent Row		PFO		Milepost
	Temporary Row		PSS		HDD Entry/Exit
	Additional Workspace		EEM		
	200' Survey		Streams		
	Unsurveyed Areas				

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Preliminary Draft  
SWCA Project No: 22932  
Date Produced: 03/20/12  
Revised: 03/20/12  
Scale: 1" = 300'

**SWCA**  
ENVIRONMENTAL CONSULTANTS  
Sheet 36 of 47

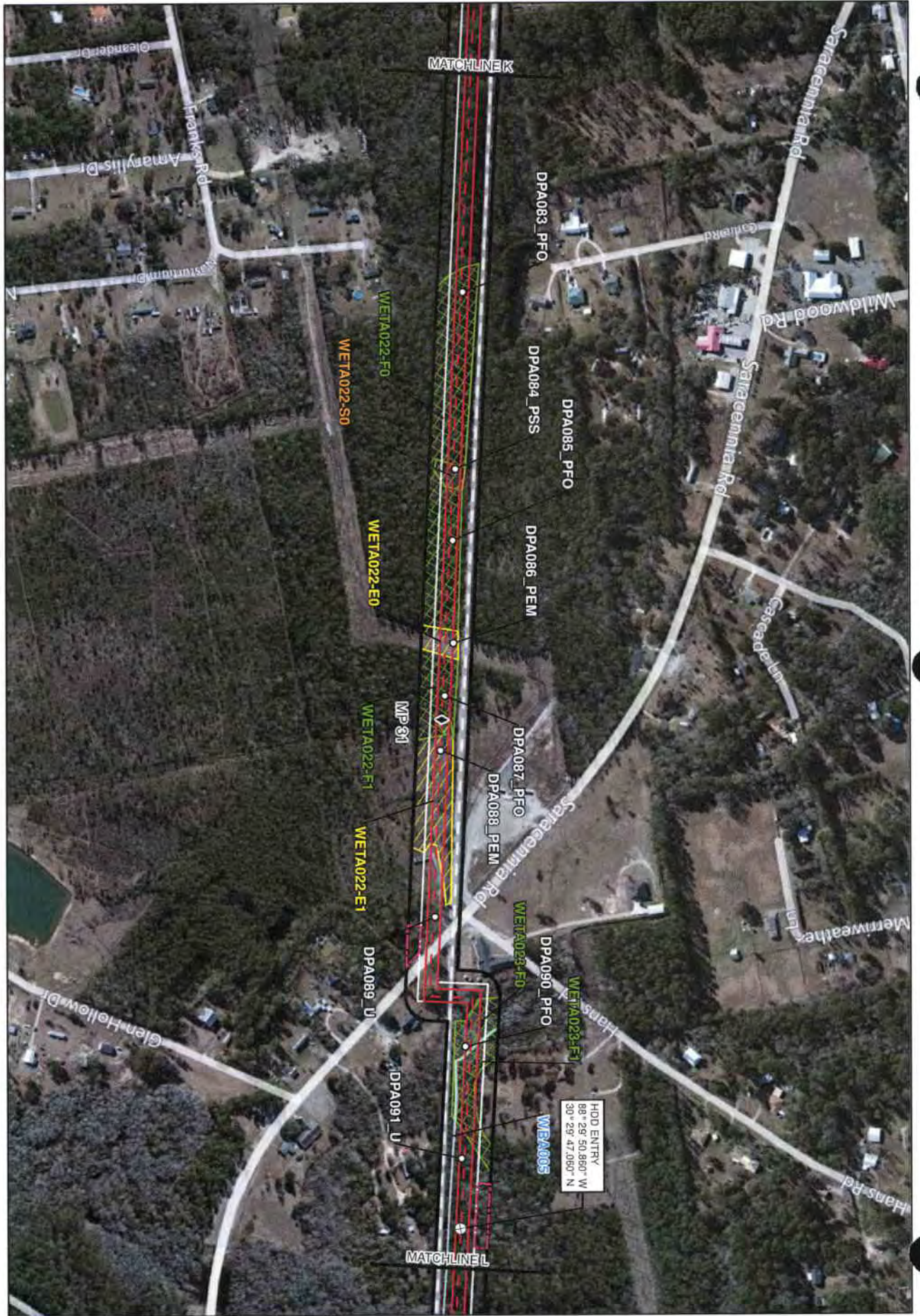
**PLAINS SOUTHCAP L.L.C.  
PLAN VIEW  
41-MILE-LONG TEN-MILE FACILITY TO  
PASCAGOULA PIPELINE PROJECT  
JACKSON COUNTY, MS**

	Centerline		PEM		Sample Point
	Permanent ROW		PFO		Milepost
	Temporary ROW		PSS		HDD Entry/Exit
	Additional Workspace		EEM		
	2007 Survey		Streams		
	Unsurveyed Areas				

COMMENT:  
USACE MOBILE DISTRICT

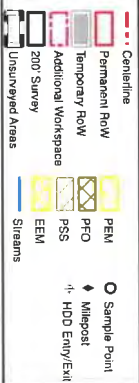
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Approved By: Preliminary Draft  
SWCA Project No: 22932  
Date Printed: 11/11/2013  
Revision Date:

Graphic Scale: 1" = 500 Feet  
Scale: 1:50,000  
Date: 11/11/2013





**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**



COMMENT:  
USACE MOBILE DISTRICT



Background: Bing Maps Hybrid (8/13)  
Approved By: Preliminary Data  
SWCA Project No: 22932  
Date Printed: 10/20/2011  
Revision Date:



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**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

Sheet 38 of 47

---

**Legend**

- Centerline
- Permanent ROW
- Temporary ROW
- Additional Workspace
- 200 Survey
- Uncultivated Areas
- PEM
- PFO
- PSS
- EEM
- Streams
- Sample Point
- ◆ Milepost
- + HDD Entry/Exit

**COMMENT:**  
 USACE MOBILE DISTRICT

Background: Bing Maps Hybrid, 2012  
 Approved By: Preliminary Draft  
 SWCA Project No: 22932  
 Date Produced: 11/11/14  
 Revision Date:

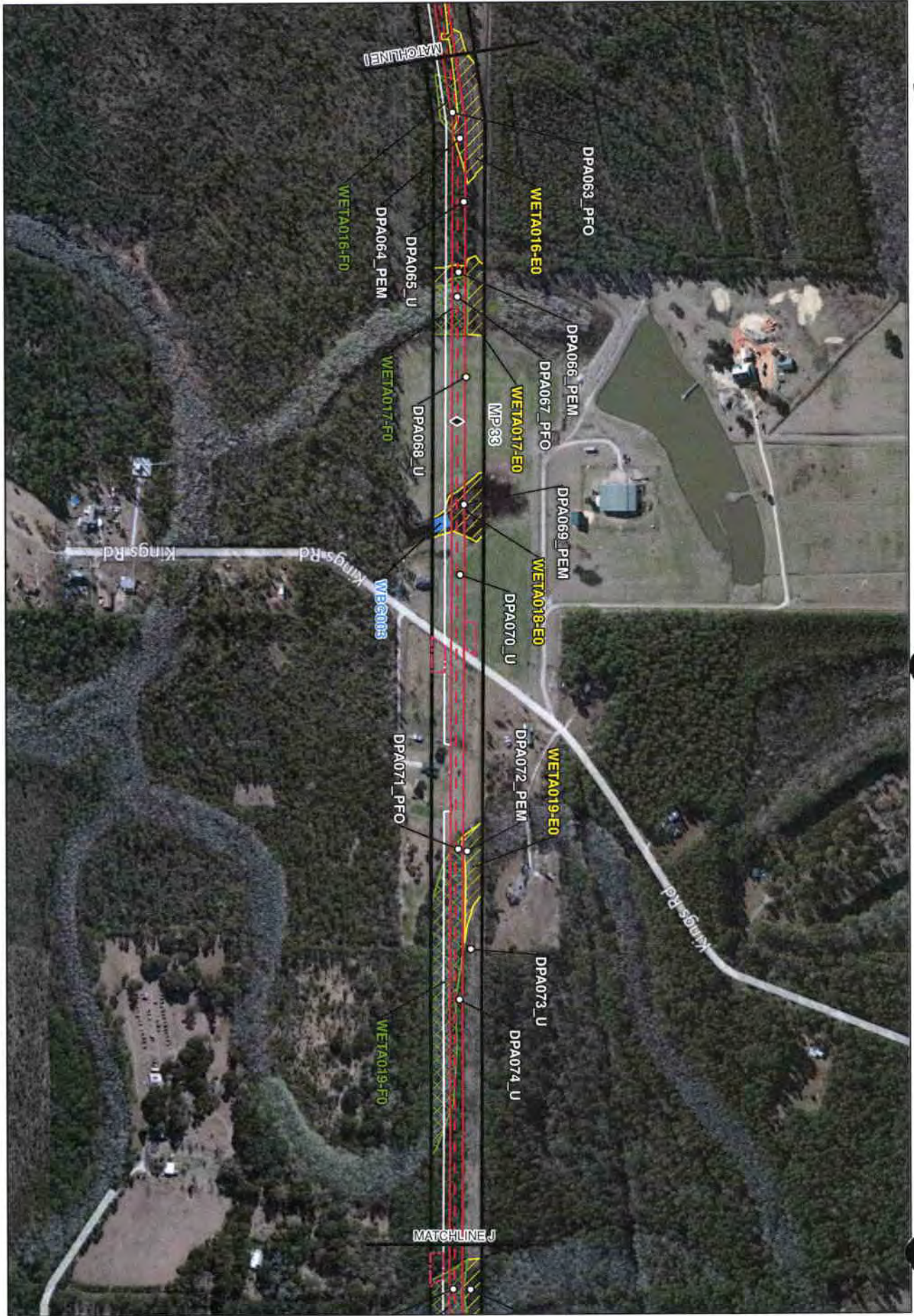
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Graphic Scale: 1" = 500'

0 100 200 300 400 500 Feet



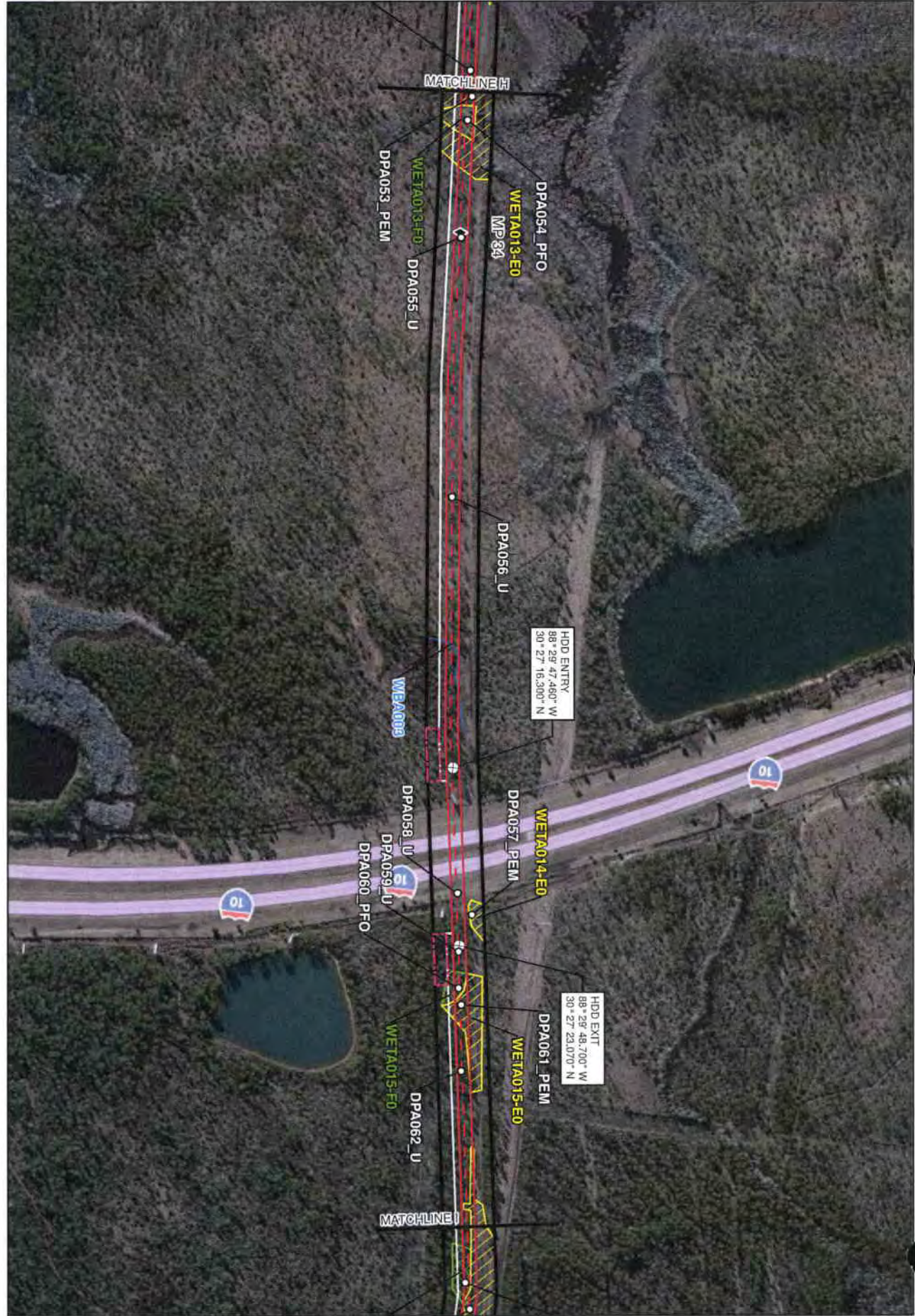
**SWCA**  
ENVIRONMENTAL CONSULTANTS  
Sheet 39 of 47


**PLAINS SOUTHCAP L.L.C.**  
PLAN VIEW  
**41-MILE-LONG TEN-MILE FACILITY TO PASCAGOULA PIPELINE PROJECT JACKSON COUNTY, MS**

Centerline  
 Permanent Row  
 Temporary Row  
 Additional Workspace  
 2007 Survey  
 Unsurveyed Areas  
 PEM  
 PFC  
 PSS  
 EEM  
 Sitings  
 Sample Point  
 Milepost  
 HDD Entry/Exit

**COMMENT:**  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
 Mapper: JH  
 Approved By: [Signature]  
 SWCA Project No: 22932  
 Date Produced: 02/02/12  
 Revision Date:  
 Revision Date:  
 Revision Date:  
 Scale: 1" = 1000'  
 Date: 02/02/12





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**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

Sheet 40 of 47

---

Centerline  
 Permanent Row  
 Temporary Row  
 Additional Workspace  
 2007 Survey  
 Unsurveyed Areas

PEM  
 PFO  
 PSS  
 EEM  
 Strongs

Sample Point  
 Milepost  
 HDD Entry/Exit

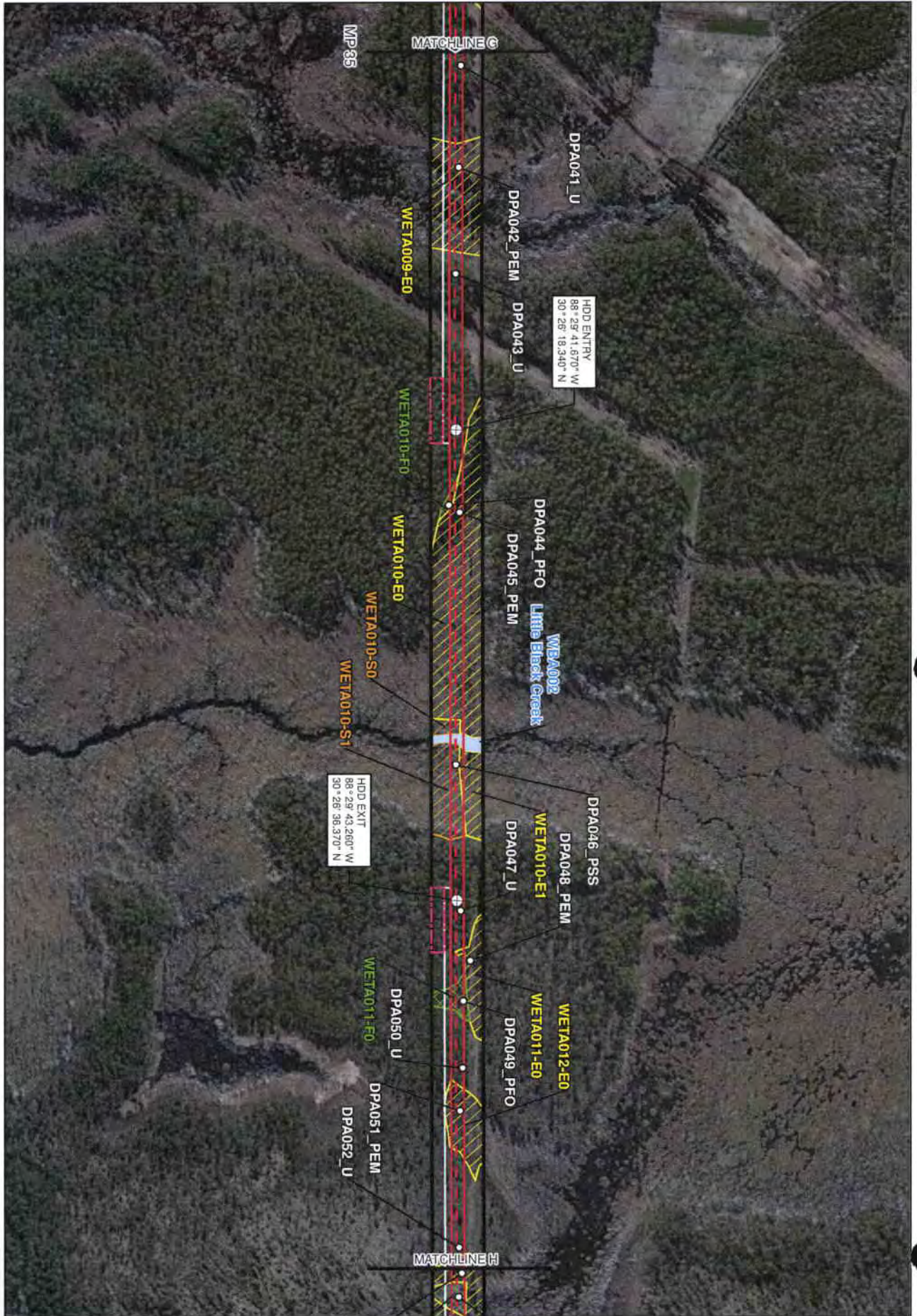
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COMMENT  
 USACE MOBILE DISTRICT

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Background: Bing Maps Hybrid (2012)  
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 SWCA Project No: 22932  
 Date Produced: 8/20/2012  
 Revision: 01/03

0 200 400 Feet  
 0 200 400 Meters





Path: H:\22932\_Pascagoula\_Pipeline\MAPS\22932\_Pascagoula\_Pipeline\_MAP\_41\_of\_47.mxd



Sheet 41 of 47

**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEWS**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

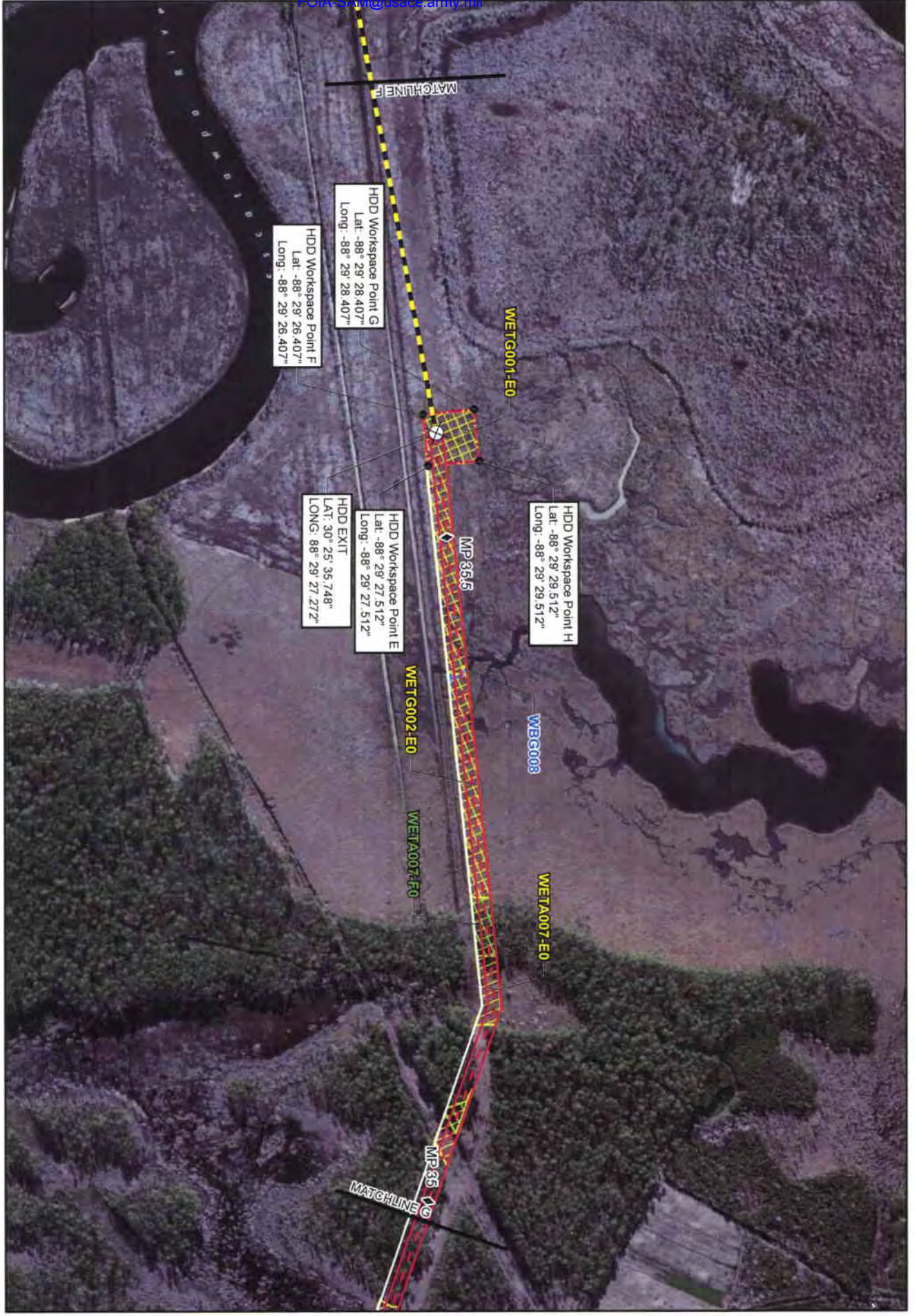
**COMMENT**  
 USACE MOBILE DISTRICT

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Background Bing Maps Hybrid (2012)  
 Mapper JK  
 Approved By Preliminary Data  
 Date Produced 12/6/2012  
 Revision Date 1/16/2012



0 200 500 Feet



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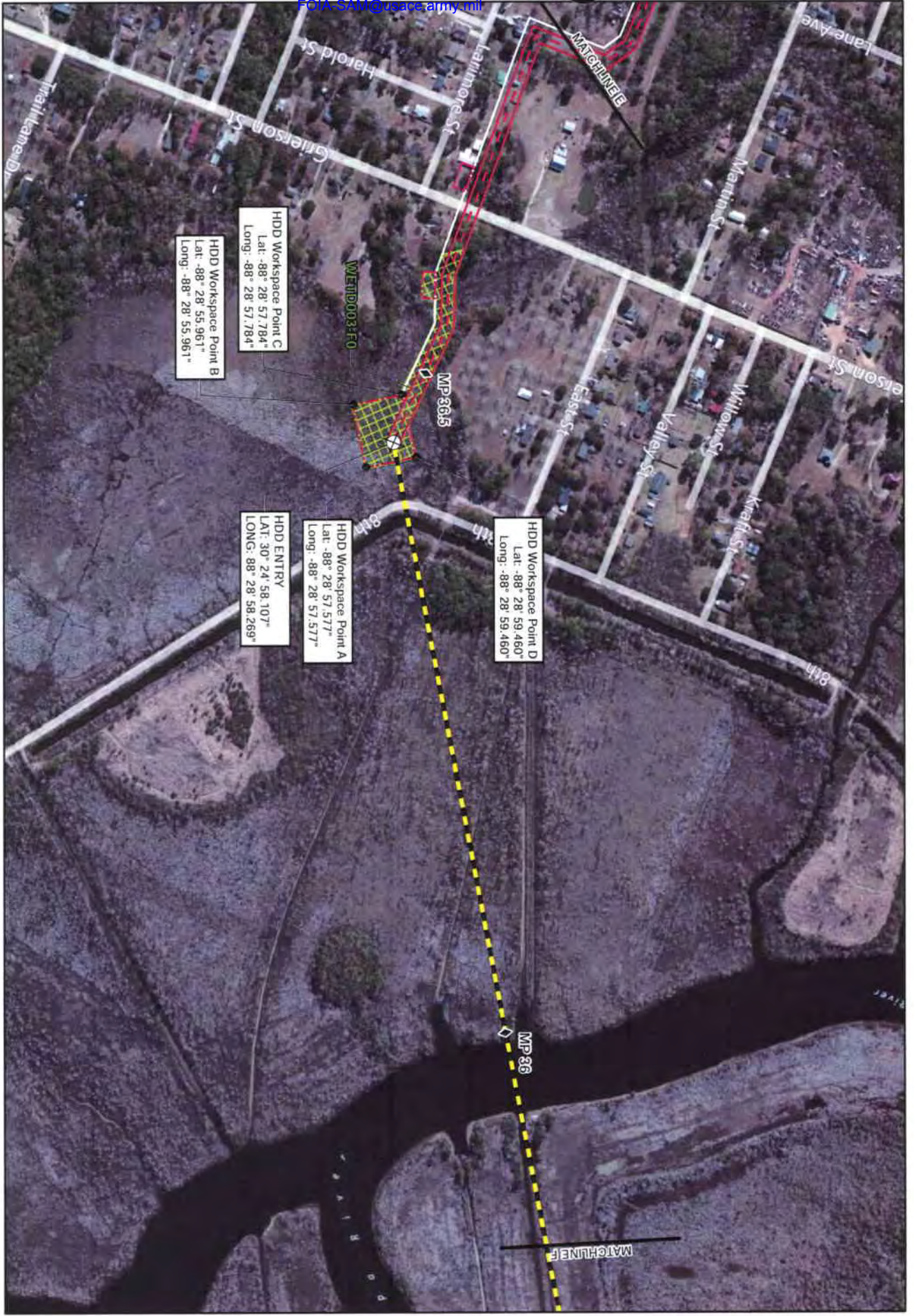
**SWCA**  
 ENVIRONMENTAL CONSULTANTS  
 Sheet 42 of 47

**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEWS**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

	Milepost		Centerline
	HDD Centerline		Perennial
	Additional		Ephemeral
	Pond		EDEM
	PEM		PFO
	PSS		

COMMENT:  
 USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
 Mapper: JR  
 Approved By: Preliminary Draft  
 Date Produced: 12/6/2012  
 Revision Date: 1/16/2012  
 250  
 500 Feet  
 0  
 Contour Interval: 10 Feet  
 Contour Interval: 10 Feet



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Sheet 43 of 47

**PLAINS SOUTHCAP L.L.C.  
PLAN VIEW  
41-MILE-LONG TEN-MILE FACILITY TO  
PASCAGOULA PIPELINE PROJECT  
JACKSON COUNTY, MS**

	Centerline		PEM		Sample Point
	Permanent ROW		PFO		Milepost
	Temporary ROW		PSS		HDD Entry/Exit
	Additional Workspace		EEM		
	200' Survey		Streams		
	Unsurveyed Areas				

COMMENT:  
USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
Approved By: Preliminary Draft  
SWCA Project No: 22932  
Date Produced: 05/05/12  
15:11:11  
15:11:11  
15:11:11

Scale: 1" = 300'  
Coordinate System: NAD 1983 UTM Zone 18N  
Units: Feet





**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**


	Centerline
	Permanent ROW
	Temporary ROW
	Additional Workspace
	2017 Survey
	Unsurveyed Areas
	PEM
	PFO
	PSS
	EEM
	Streams
	Sample Point
	Milepost
	HDD Entry/Exit

COMMENT:  
 USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
 Approved By: Preliminary Draft  
 SWCA Project No: 22932  
 Date Produced: 8/20/2012  
 Revision: 046  
 Scale: 1" = 100'

0 100 200 Feet





ENVIRONMENTAL CONSULTANTS

**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

Centerline  
 Permanent ROW  
 Temporary ROW  
 Additional Workspace  
 200' Survey  
 Unsurveyed Areas

PEM  
 PFO  
 PSS  
 EEM

Stipems

Sample Point  
 Milepost  
 HDD Entry/Exit

COMMENT:  
 USACE MOBILE DISTRICT

Background: Bing Maps Hybrid (2012)  
 Map Date: 8/20/12  
 Approved By: Pauline  
 SWCA Project No: 22932  
 Date Produced: 8/20/2012  
 Revision Date:



Path: C:\Users\yabalais\Desktop\My\_Projects\22932\_Pascagoula\_Pipeline\MAPS\svcs\Report Maps\PCN\PCN Plan Views.mxd

FOIA-SAM@usace.army.mil

**SWCA**  
ENVIRONMENTAL CONSULTANTS  
Sheet 46 of 47

**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

	Centerline
	Permanent Row
	Temporary Row
	Additional Workspace
	2007 Survey
	Unsurveyed Areas
	PEM
	PFO
	PSS
	EEM
	Streams
	Sample Point
	Milepost
	HDD Entry/Exit

COMMENT:  
USACE MOBILE DISTRICT

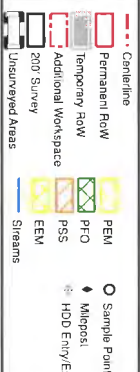
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Approved By: Preliminary Draft  
SWCA Project No: 22932  
Date Produced: 8/20/2012  
NATIONAL DATA  
30' NAD

0 200 300 Feet  
USACE MOBILE DISTRICT



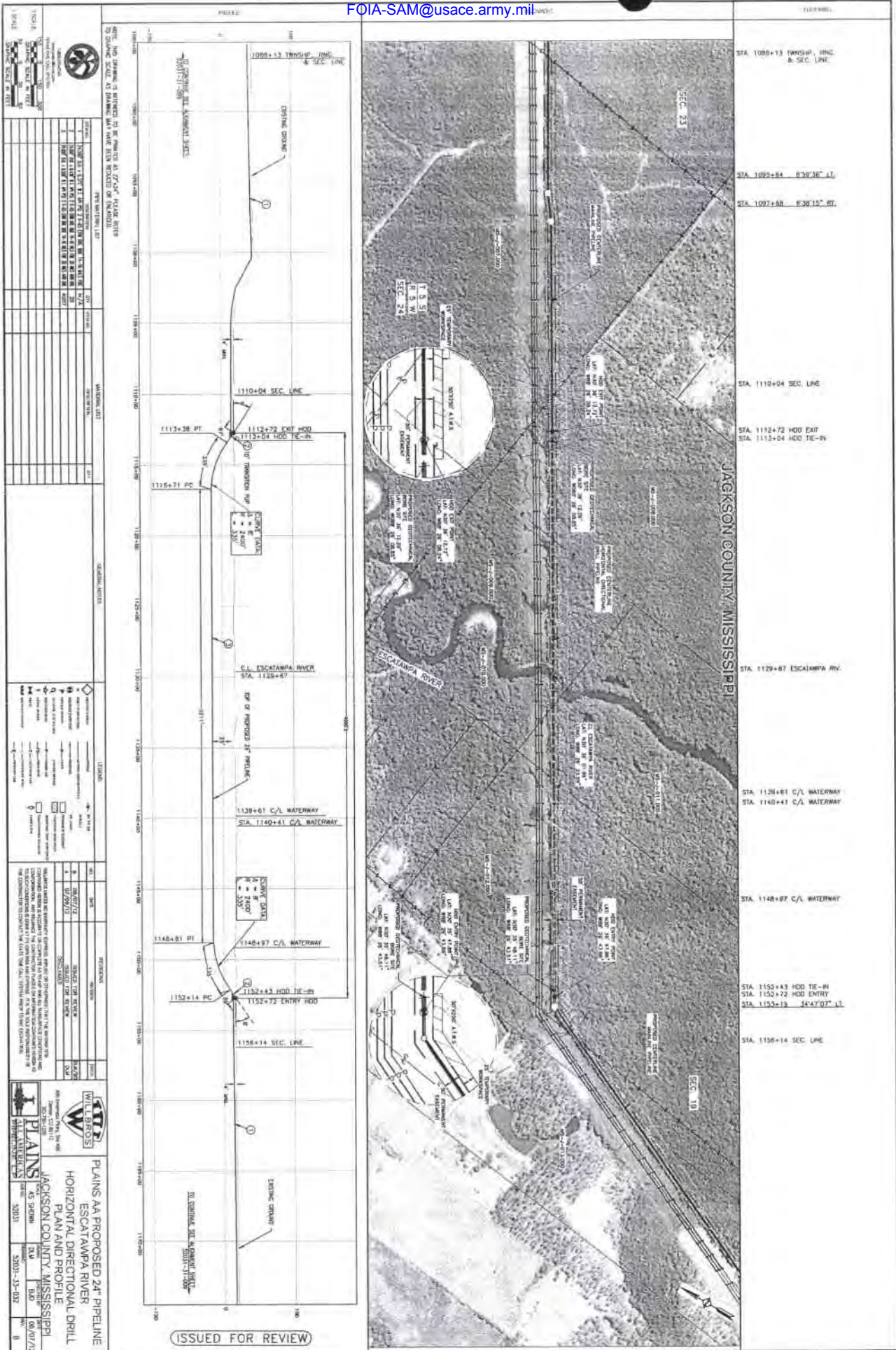


**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEW**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**



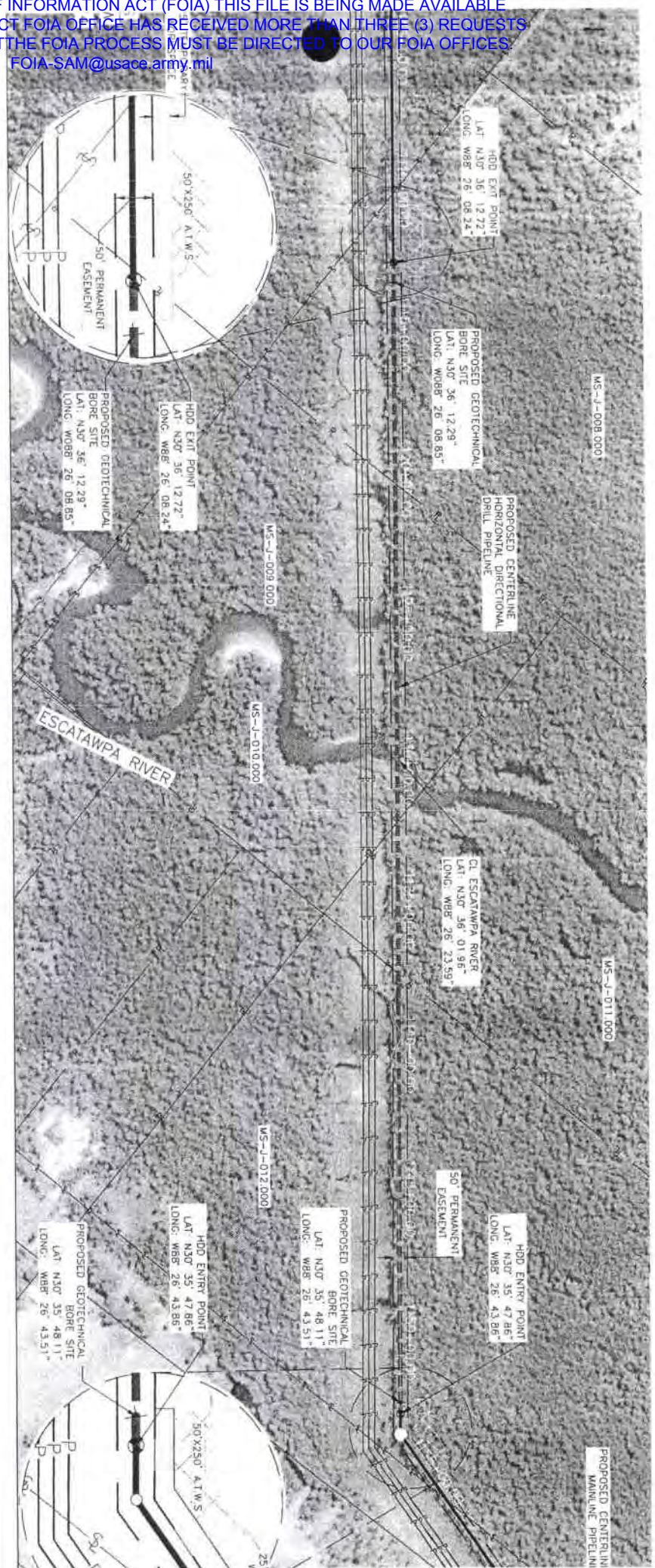
COMMENT  
USACE MOBILE DISTRICT

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SWCA Project No: 22932  
Date Produced: 8/20/13  
Revision Date:  
SWCA  
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Scale: 1:50,000  
North Arrow  
Date: 8/20/13



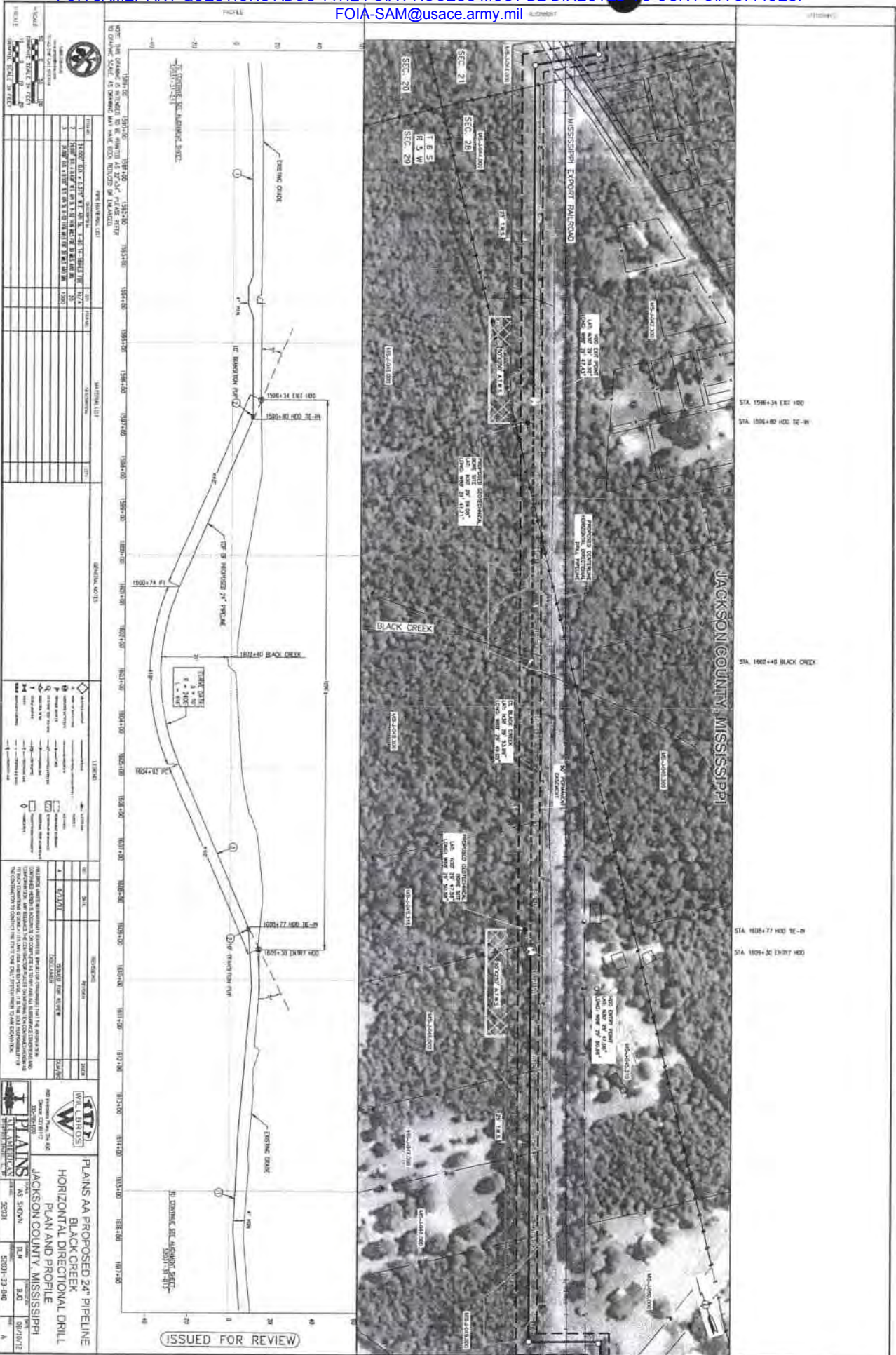
*Apple Escatawpa  
HDO 1/2*





Upper Escatawpa HDD #12

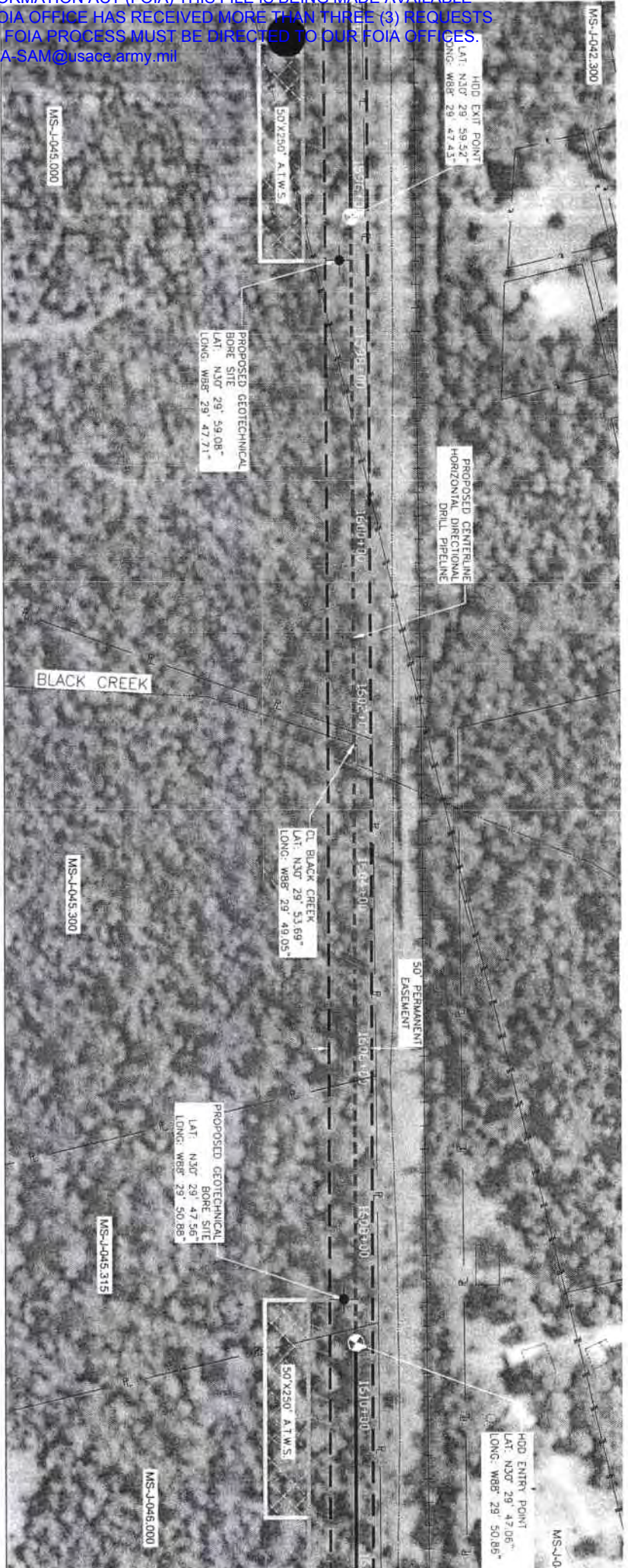
Upper Escatawpa River



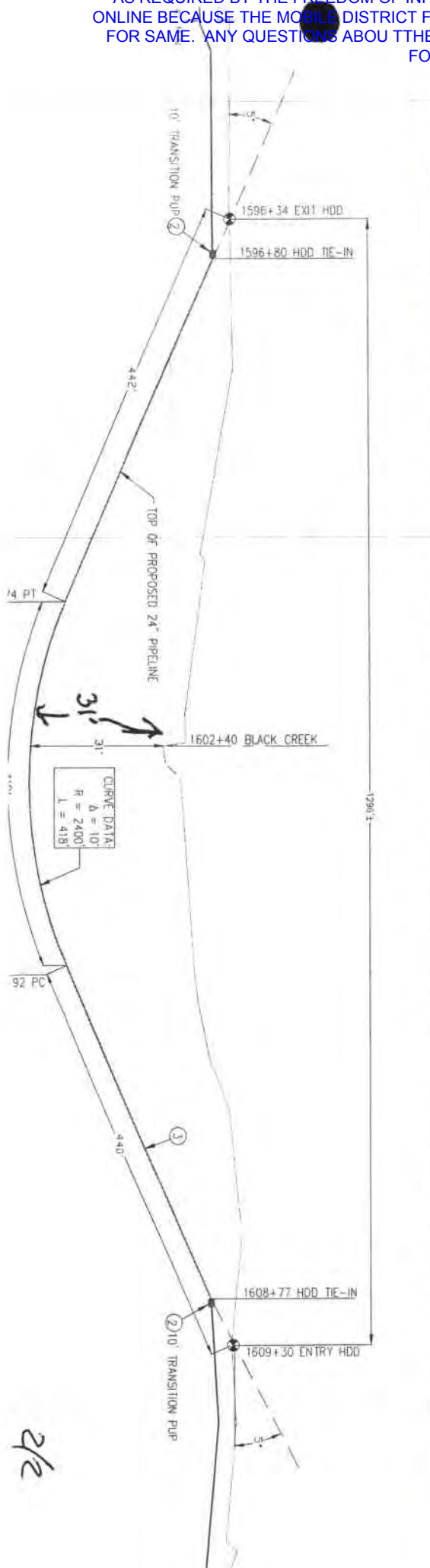
<p>PROJECT: MISSISSIPPI EXPORT RAILROAD</p> <p>SECTION: 21</p> <p>DATE: 11/17/10</p> <p>SCALE: 1"=40'</p>	
<p>DESIGNED BY: [Redacted]</p> <p>CHECKED BY: [Redacted]</p> <p>APPROVED BY: [Redacted]</p>	
<p>PROJECT LOCATION: JACKSON COUNTY, MISSISSIPPI</p> <p>PROJECT NUMBER: 2301</p> <p>DATE: 11/17/10</p>	
<p>PROJECT DESCRIPTION: PROPOSED 24\"/&gt; </p>	
<p>PROJECT STATUS: ISSUED FOR REVIEW</p>	

*HDD Black Creek  
1/2*

MS-J-042.300

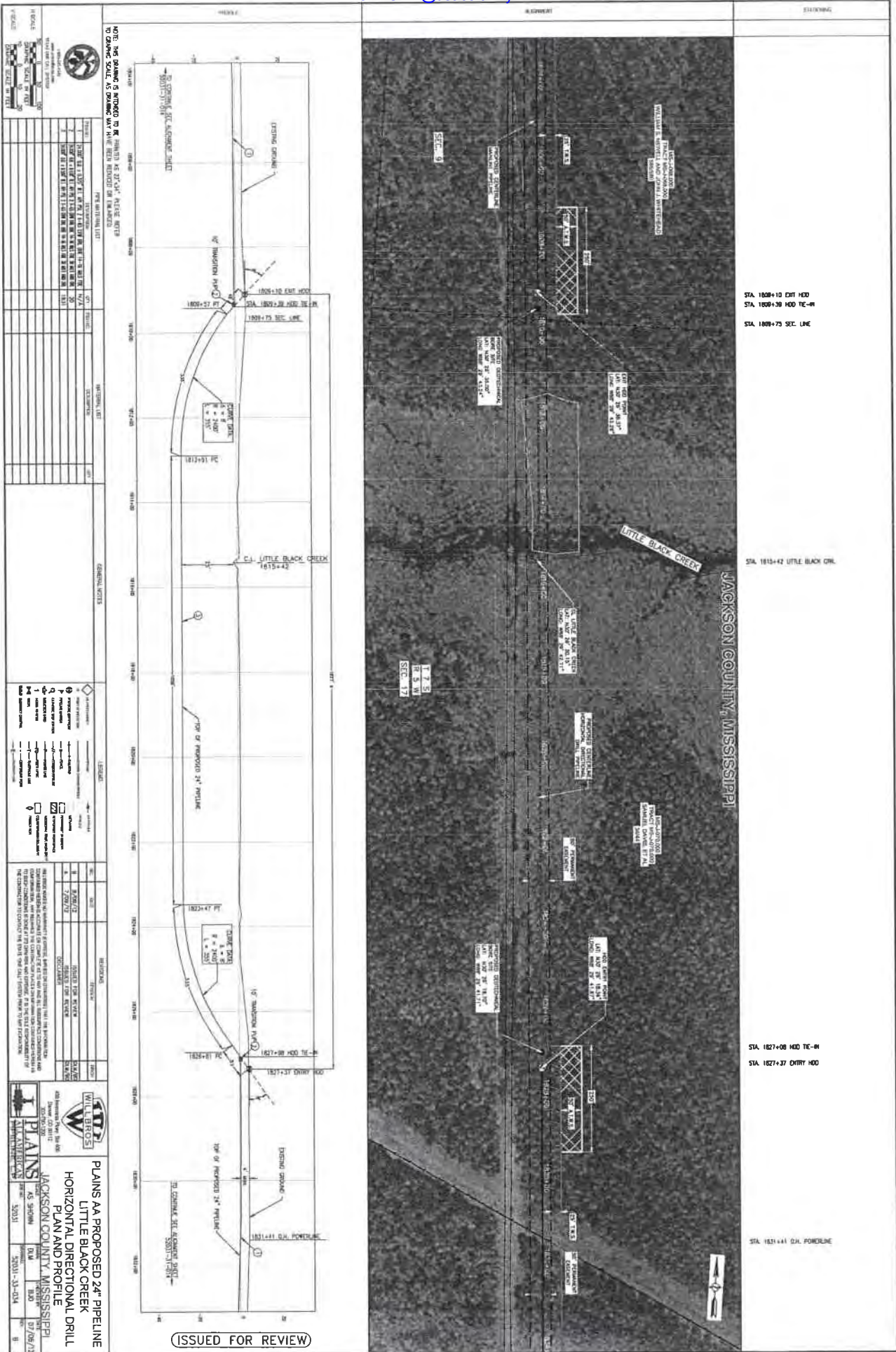


HDD Black Creek



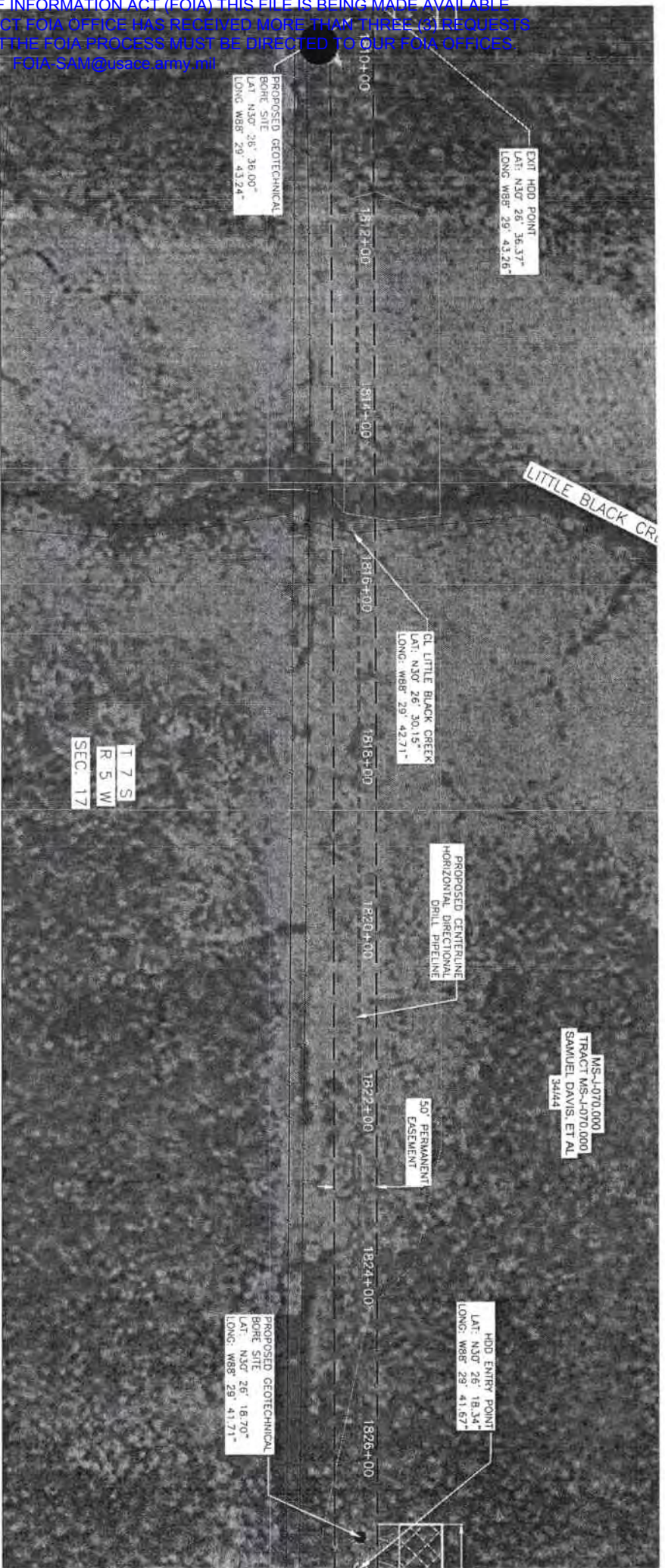
Black Creek HDD

r/c

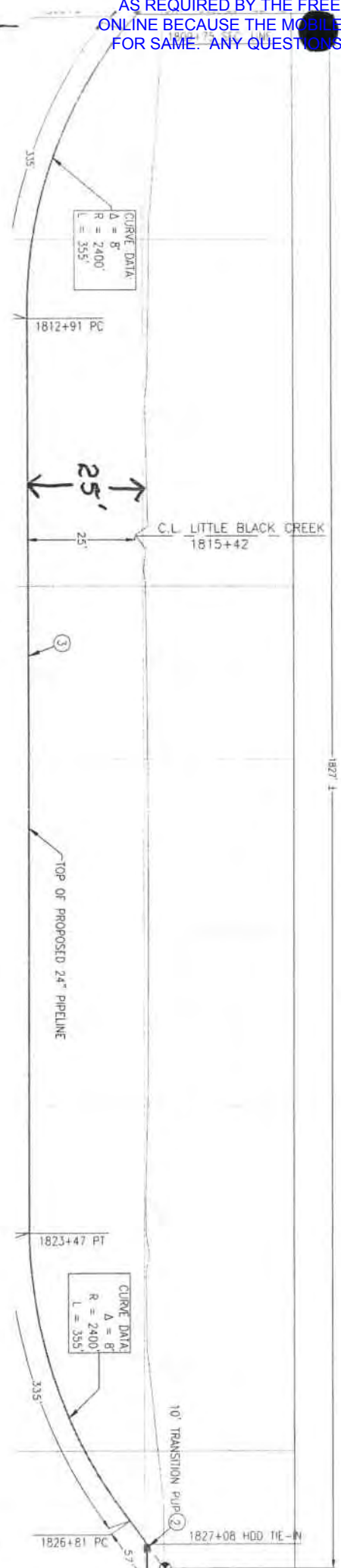


L.H., Black Creek HDD 1/2

ISSUED FOR REVIEW



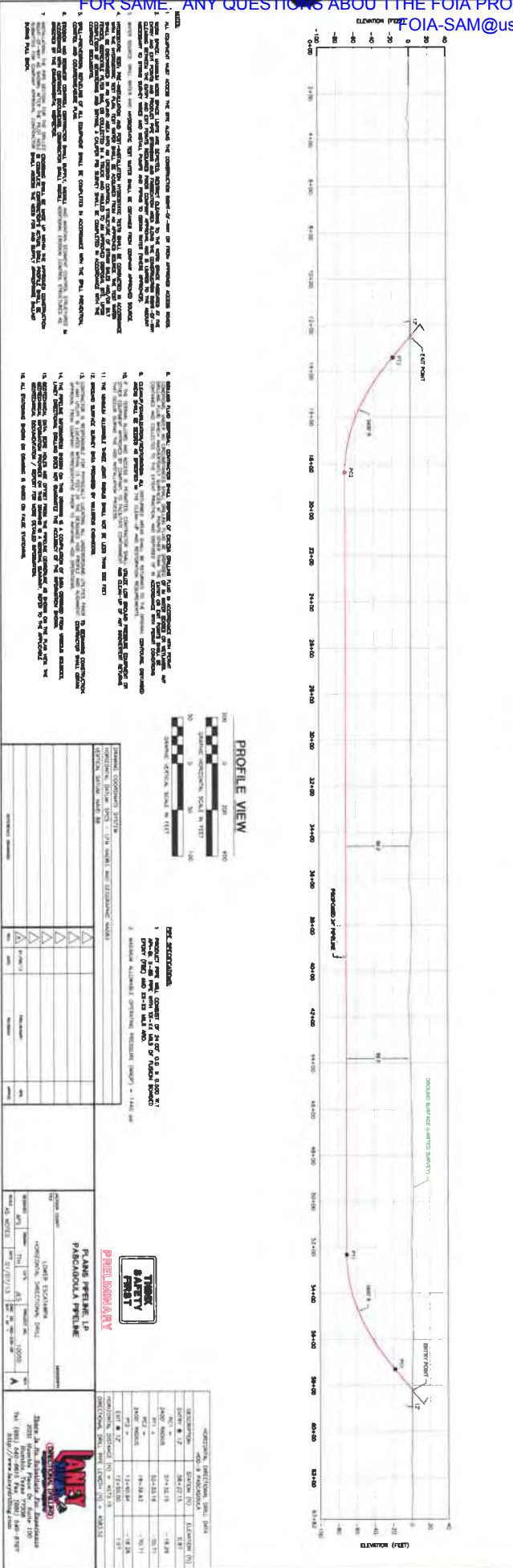
*Little Black Creek*



*Little Black Creek HDD 2/12*

REQUESTED BY THE FREEDOM OF INFORMATION ACT (FOIA) THIS FILE IS BEING MADE AVAILABLE ONLINE BECAUSE THE MOBILE DISTRICT FOIA OFFICE HAS RECEIVED MORE THAN THREE (3) REQUESTS FOR SAME. ANY QUESTIONS ABOUT THE FOIA PROCESS MUST BE DIRECTED TO OUR FOIA OFFICES.  
 FOIA-SAM@usace.army.mil

## JACKSON COUNTY, MISSISSIPPI



1. THE PROPOSED PROFILE SHALL BE CONSTRUCTED TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
2. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
3. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
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6. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
7. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
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9. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
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14. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
15. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.
16. THE PROPOSED PROFILE SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM EXPECTED LOADS AND TO PROVIDE A SAFE AND SOUND STRUCTURE FOR THE PROPOSED LOWER ESCATAWPA RIVER DAM.

STATIONING	ELEVATION	DESCRIPTION
14+00	50.0	START POINT
16+00	30.0	RAMP
20+00	40.0	RAMP
24+00	50.0	RAMP
28+00	50.0	RAMP
31+00	50.0	ENTRY POINT

PLANS PREPARED BY  
 PACIFIC COLLEGE  
 JACKSON, MISSISSIPPI

DATE: 07/20/13

SCALE: AS SHOWN

**THINK SAFETY FIRST**

PROJECT: LOWER ESCATAWPA RIVER DAM

CONTRACT NO.: 1130000

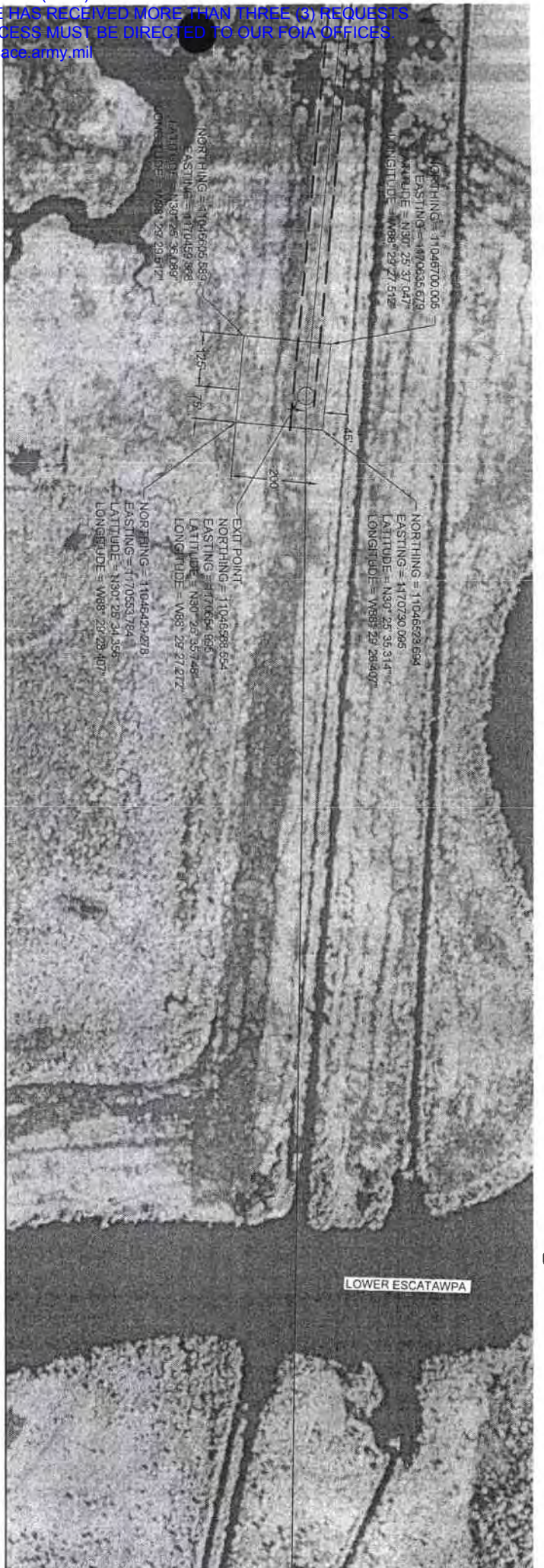
DISTRICT: JACKSON

DESIGNED BY: [Name]

CHECKED BY: [Name]

DATE: 07/20/13

Lower Escatawpa  
 ADD 1/6



Lower Escatawpa River



4+00 6+00 8+00 10+00 12+00 14+00 16+00 18+00 20+00 22+00 24+00 26+00 28+00 30+00 32+00 34+00 36+00 38+00



69.5'

59.5'

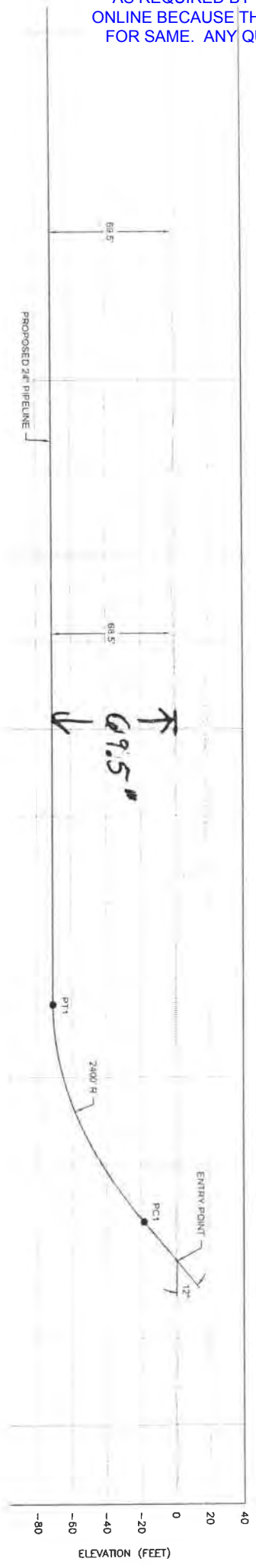
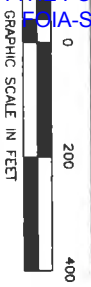
PROPOSED 24" PIPELINE

Lower Escatawpa 2/3



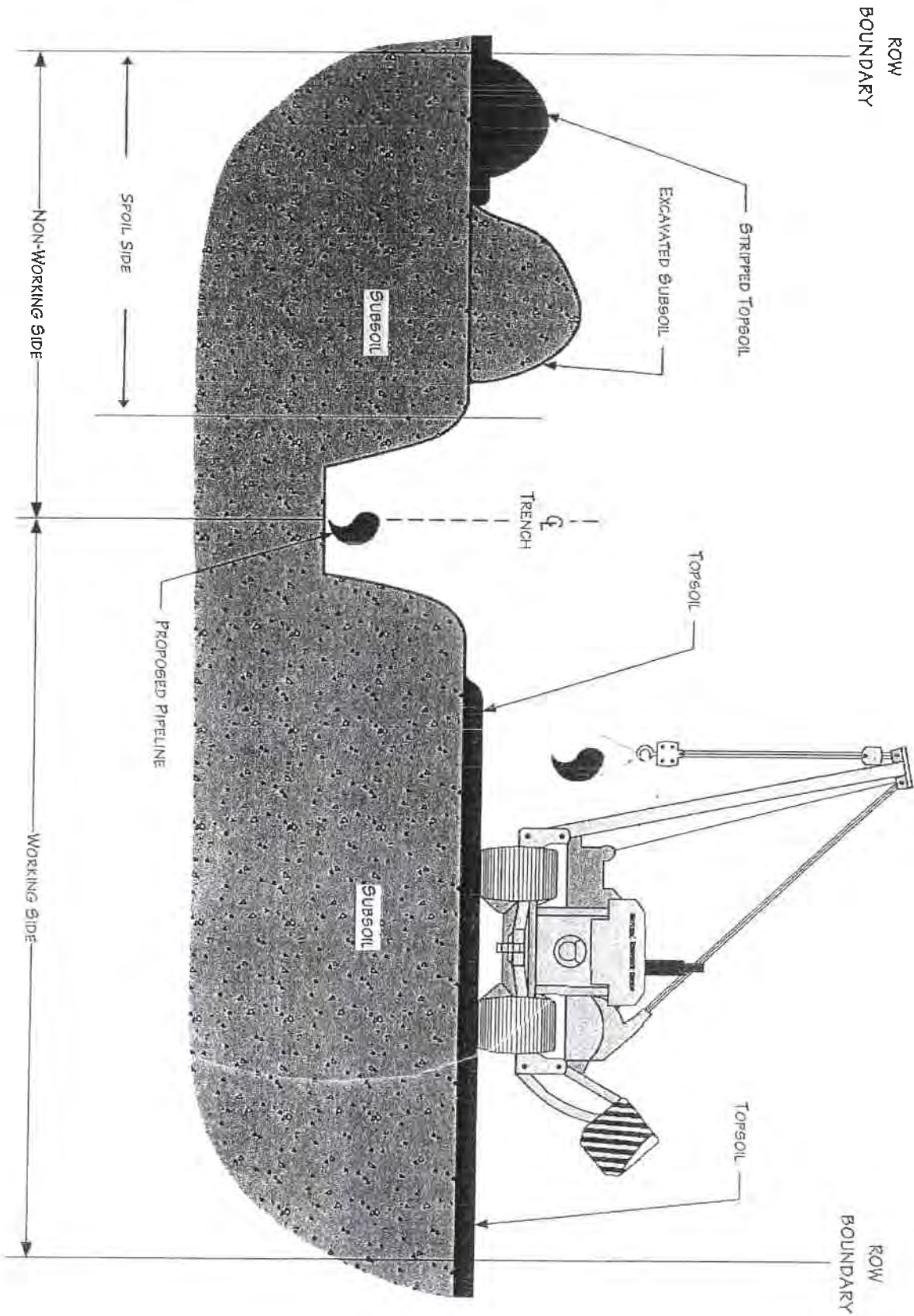
*Lower Escatawpa River*

**PLAN VIEW**



*Lower Escatawpa HDD 3/3*

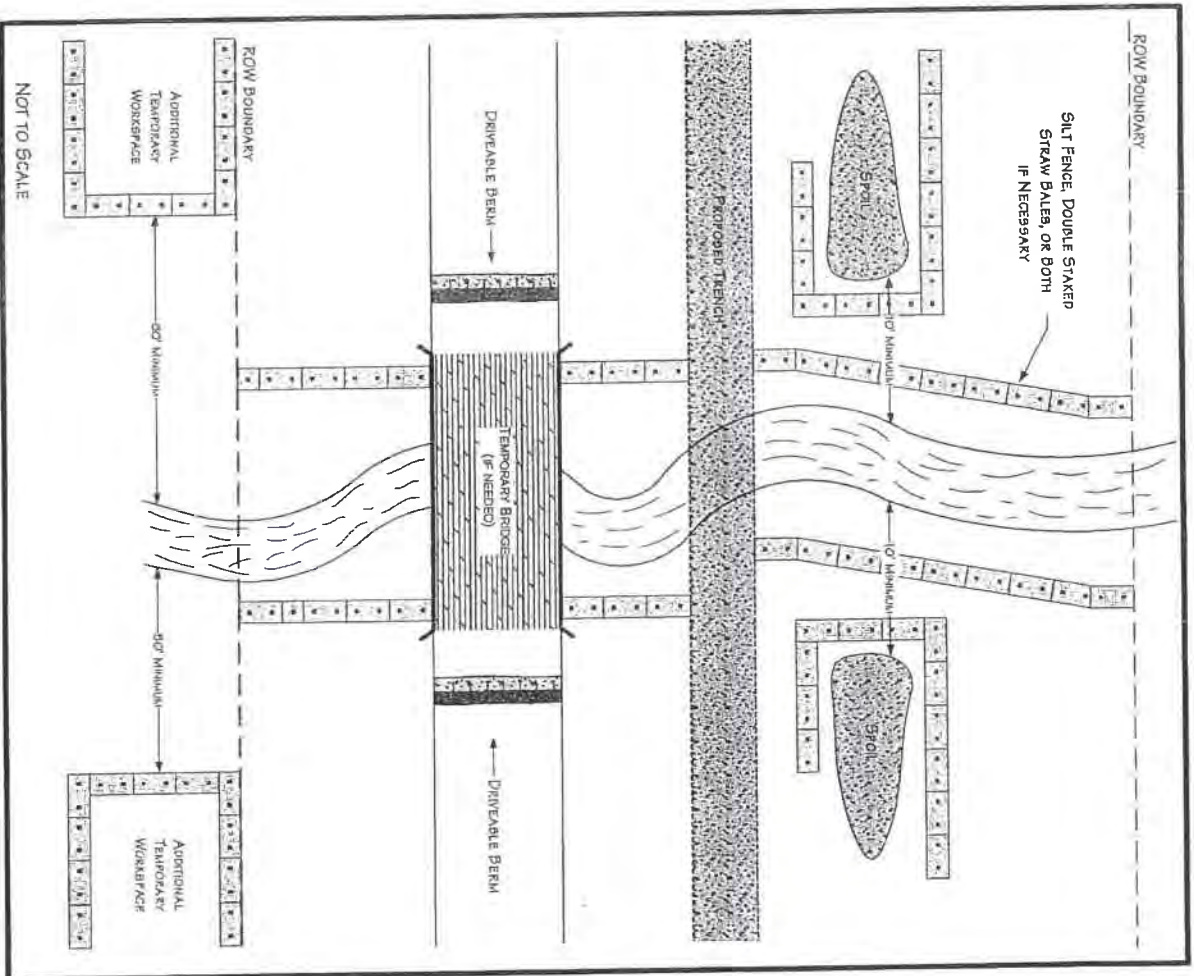




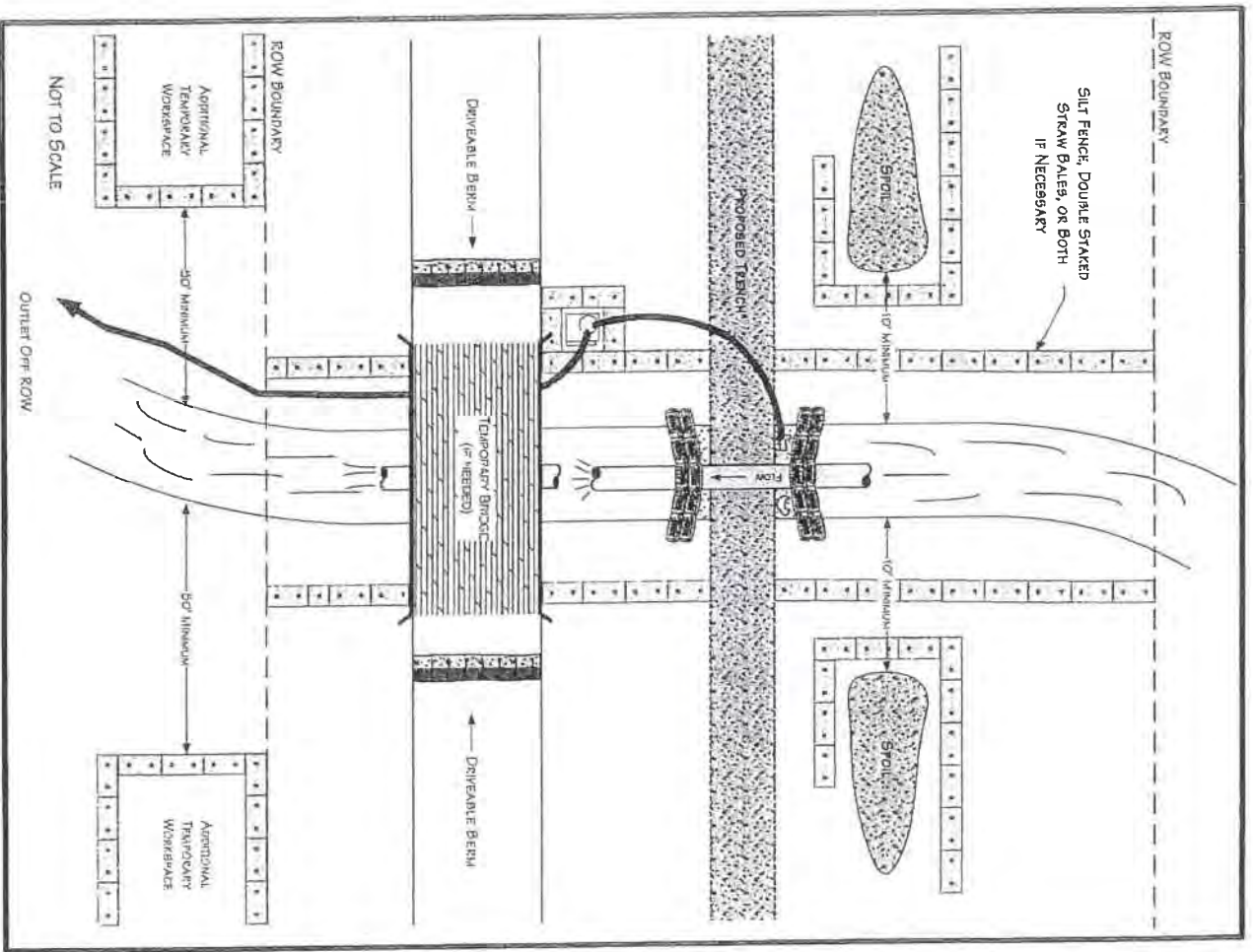
NOT TO SCALE

# Trench and Spoil Side Method

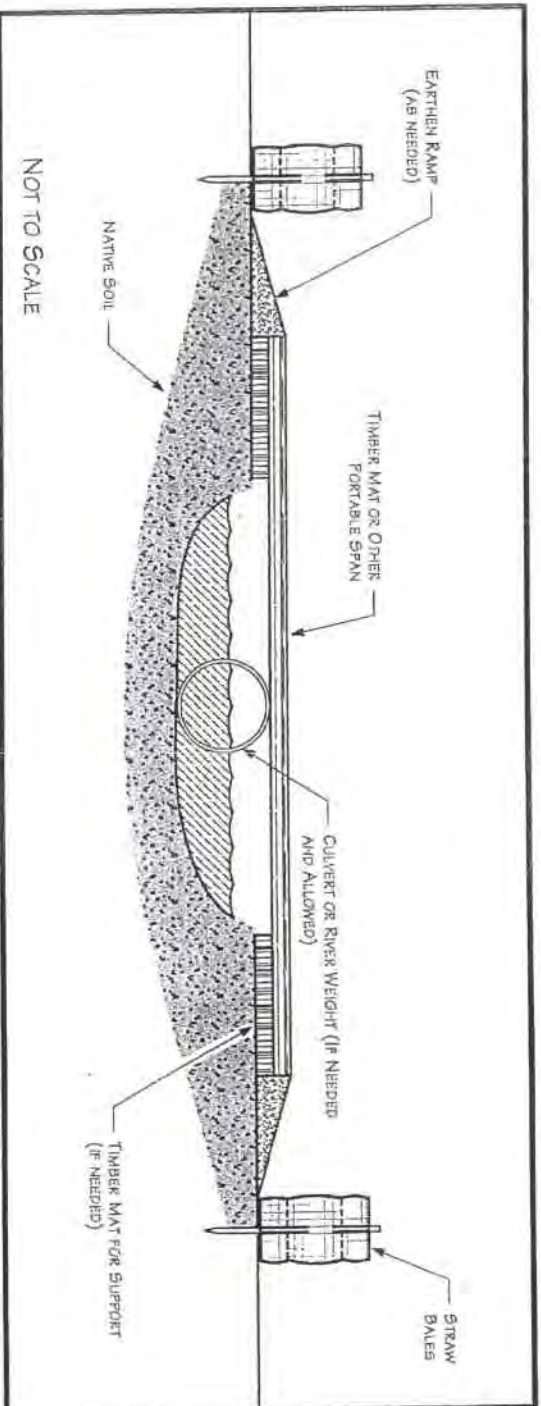
# Open-Cut Waterbody Crossing Method



# Flumed Waterbody Crossing Method



# Equipment Bridge



## Performance Criteria

- Design, construct, and maintain to
  - Provide unrestricted flow
  - Withstand and pass highest expected flows
  - Prevent soil from entering waterbody
- Align culverts to prevent bank erosion or streambed scour
- Install energy-dissipating devices downstream of culverts, if necessary



**MISSISSIPPI  
DEPARTMENT OF MARINE RESOURCES**

March 15, 2013

Plains South Cap, LLC  
Attn: Steve Lee  
333 Clay Street, Suite 1600  
Houston, TX 77210-4648

RE: DMR-130181; SAM-2012-01165-MBM

Dear Mr. Lee:

The Department of Marine Resources (DMR) has reviewed your request to construct a crude oil pipeline from the Ten Mile Crude Oil Terminal approximately 11 miles northwest of Mobile, AL to the Chevron Refinery located in Pascagoula, Jackson County, MS.

In accordance with the provisions of the Mississippi Coastal Wetlands Protection Law and our findings made in compliance with Chapter Eight, Section 2, Part II.D. of the Mississippi Coastal Program, a Certificate of Waiver is issued to you this day. This Waiver does not release you from the responsibility of compliance with other state and federal regulations. These activities shall be conducted in a manner resulting in the least damaging impacts to wetlands and the coastal environment. This Waiver is hereby granted by the Executive Director on this date, provided the following conditions are agreed upon and adhered to in completing the proposed work:

1. Approximately 4,600 linear feet of 24-inch diameter crude oil pipeline shall be installed by means of horizontal directional boring beneath the Lower Escatawpa River and adjacent wetlands with entry at 30° 24' 58.107" N, -88° 28' 58.269" W and exit at 30° 25' 35.748" N, -88° 29' 27.272" W as indicated on the attached diagrams;
2. Approximately 1,800 linear feet of 24-inch diameter crude oil pipeline shall be installed by means of horizontal directional boring beneath Little Black Creek and adjacent wetlands with entry at 30° 26' 18.340" N, -88° 29' 41.670" W and exit at 30° 26' 36.370" N, -88° 29' 43.260" W as indicated on the attached diagrams;
3. Approximately 1,800 linear feet of 24-inch diameter crude oil pipeline shall be installed by means of open trenching of tidal wetlands adjacent to the Escatawpa River commencing at 30° 25' 35.748" N, -88° 29' 27.272" W and ending at approximately 30° 25' 51.87" N, -88° 29' 36.79" W as indicated on the attached diagrams;
4. Approximately 2,800 linear feet of 24-inch crude oil pipeline shall be installed by means of open trenching of non-tidal wetlands adjacent to Little Black Creek commencing at 30° 25' 51.87" N, -88° 29' 36.79" W and ending at 30° 26' 18.340" N, -88° 29' 41.670" W as indicated on the attached diagrams;
5. All excess excavated material should be deposited in an approved upland disposal site, and there will be no change in preconstruction contours, elevation, or grade. In tidal marsh areas adjacent to the Escatawpa River, impacted areas should be restored based on the requirements set forth in the attached document titled: *Marsh Restoration Success Guidelines*. A written report shall be provided to DMR upon pipe installation documenting pre- and post- installation site conditions with fixed photo stations every 600 feet of the 1,800 feet open-trenched marsh area. Thereafter, marsh restoration monitoring reports

shall be submitted yearly until all success criteria have been satisfied. These reports shall be received in the DMR offices by October 1 of each year;

6. Including the above authorized impacts, approximately 105.49 acres of non-tidal wetlands shall be impacted as a result of mechanized land clearing, temporary trenching and side-casting of fill, and temporary and permanent conversion of forested wetlands to scrub-shrub/herbaceous/emergent wetlands;
7. As mitigation for the impacts authorized in condition #6 above, the applicant shall purchase the appropriate number of mitigation credits to offset the above authorized temporary impacts and temporary/permanent conversion of wetlands. The credit purchase must be completed prior to commencement of construction and proof of purchase of mitigation credits from an approved mitigation bank within the service area (as determined by the Mitigation Bank Review Team) must be submitted to this office;
8. All temporary work pads, access roads, and mats shall be removed following completion of pipeline installation;
9. Impacted areas must be replanted with naturally occurring indigenous species if the area has not re-vegetated to pre-project conditions within 1 year of project completion;
10. No additional crude oil pipelines, natural gas pipelines, electrical transmission lines, water/sewer transmission lines, fiber-optic cable, etc. within the crude oil pipeline right-of-way described in the submitted application is authorized by this Waiver;
11. Prior to the commencement of construction, permittee must submit to the DMR a copy of the Tidelands Lease as required by the Secretary of State and as filed in the subject County Land Records, or a statement from the Secretary of State that the permitted activity does not require a Tidelands Lease;
12. Best Management Practices shall be used at all times during construction;
13. No construction debris or unauthorized fill material shall be allowed to enter coastal wetlands or waters; and,
14. Vegetated wetlands outside of the pipeline right-of-way and right-of-way access areas shall not be impacted and no permanent wetland impacts are authorized by this Waiver.

**This authorization is contingent on Water Quality Certification from the Mississippi Department of Environmental Quality (DEQ) and the Permittee shall maintain all water quality standards, regulations, and restrictions as set forth by the DEQ.**

**Any deviations beyond the restrictive conditions as set forth in your permit shall be considered a violation and may result in the revocation of the permit. Violations of these conditions may be subject to fines, project modifications and/or site restoration. Both the permittee and the contractor may be held liable for conducting unauthorized work. A modification to these conditions may be requested by submitting a written request along with a revised project diagram to DMR. Proposed modifications to dimensions, project footprint, and/or procedures must be approved in writing prior to commencement of work.**

Issuance of this certification by DMR and acceptance by the applicant does not release the applicant from other legal requirements including but not limited to other applicable federal, state or local laws, ordinances, zoning codes or other regulations.

**This certification conveys no title to land and water, does not constitute authority for reclamation of coastal wetlands and does not authorize invasion of private property or rights in property.**

DMR-130181; Certificate of Waiver; Plains South Cap, LLC

March 15, 2013

Please notify this Department upon completion of the permitted project so that compliance checks may be conducted by DMR staff.

This certification shall become effective upon acceptance by the applicant and receipt of the executed copy by the Director.

Please execute this certification by signing both documents and returning the copy to the Department of Marine Resources.

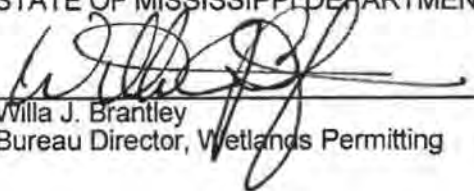
Work authorized by this certification must be completed on or before **March 15, 2018**.

Enclosed is a "Notice of Compliance" which must be conspicuously displayed at the site during construction of the permitted work.

The Department of Marine Resources has also coordinated a review of your project through the Coastal Program review procedures and determined that the project referenced above is consistent with the Mississippi Coastal Program, provided that you comply with the noted conditions and reviewing coastal program agencies do not disagree with said plans. By copy of this certification, we are notifying the U.S. Army Corps of Engineers of this determination.

THE PERMITTEE BY ACCEPTANCE OF THIS PERMIT AGREES TO ABIDE BY THE STIPULATIONS AND CONDITIONS CONTAINED HEREIN AND AS DESCRIBED BY THE PLANS AND SPECIFICATIONS SUBMITTED AS PART OF THE COMPLETED APPLICATION.

STATE OF MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

  
Willa J. Brantley  
Bureau Director, Wetlands Permitting

Accepted this the \_\_\_\_\_ day of \_\_\_\_\_, A.D., 20\_\_\_\_\_

By: \_\_\_\_\_  
Applicant

WJB/gsc

Enclosures

cc: Mr. Mike Moxey, USACE  
Ms. Florance Watson, OPC  
Mr. Raymond Carter, SOS

1/21/03

### Marsh Restoration Success Guidelines

1. The site must have access to normal hydrology from regular tidal inundations.
2. Marsh grade should be restored to pre-impact level using the least destructive method possible such as hand tools.
3. The restoration area should be sprigged with Black Needle Rush (*Juncus roemarianus*) or other appropriate wetlands species as approved by DMR staff. Plant spacing should not exceed 4 feet. No more than 1 sprig per square yard shall be taken from an existing marsh. Sprigs should not exceed 4 by 4 inches wide by 6 inches deep. Bulb planters or sharp shooter shovels can be used to obtain and plant sprigs.
4. The herbaceous layer should have a minimum of 95% coverage of Black Needle Rush (*Juncus roemarianus*) or other appropriate wetlands species as approved by DMR staff after a period of 5 years.
5. The site should be monitored for 5 years during the spring and fall with reports generated once a year and received at the DMR office by October 1<sup>st</sup> for the preceding year's monitoring. Permit number and applicant name must be noted on the monitoring report cover. If success criteria are met prior to the 5-year deadline, monitoring and annual reports may be discontinued with written approval of DMR staff.

### Marsh Creation Success Guidelines

1. The site must have access to normal hydrology from regular tidal inundations.
2. Marsh creation area must be graded to the level of adjacent tidal marsh, or approximately 0.21 m from MLW. The elevation should be sufficient to allow inundation of the site at least weekly in most cases. Site should be graded to have a gentle slope from landward edge to water. Work should be done using the least destructive method possible.
3. The creation area should be sprigged with Black Needle Rush (*Juncus roemarianus*) or other appropriate wetlands species as approved by DMR staff. Plant spacing should not exceed 4 feet. No more than 1 sprig per square yard shall be taken from an existing marsh. Sprigs should not exceed 4 by 4 inches wide by 6 inches deep. Bulb planters or sharp shooter shovels can be used to obtain and plant sprigs.
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5. The site should be monitored for 5 years during the spring and fall with reports generated once a year and received at the DMR office by October 1<sup>st</sup> for the preceding year's monitoring. Permit number and applicant name must be noted on the monitoring report cover. If success criteria are met prior to the 5-year deadline, monitoring and annual reports may be discontinued with written approval of DMR staff.



# MISSISSIPPI



## Department of Marine Resources

**NOTICE OF COMPLIANCE  
DMR- 130181 GENERAL PERMIT  
THIS NOTICE ACKNOWLEDGES THAT:**

**DATE: March 15, 2013**

**Plains South Cap, LLC  
Attn: Steve Lee  
333 Clay Street, Suite 1600  
Houston, TX 77210-4648**

**HAS, THROUGH APPLICATION TO THIS DEPARTMENT, DULY COMPLIED WITH THE MISSISSIPPI COASTAL WETLANDS PROTECTION LAW TO:**

1. Approximately 4,600 linear feet of 24-inch diameter crude oil pipeline shall be installed by means of horizontal directional boring beneath the Lower Escatawpa River and adjacent wetlands with entry at 30° 24' 58.107" N, -88° 28' 58.269" W and exit at 30° 25' 35.748" N, -88° 29' 27.272" W as indicated on the attached diagrams;
2. Approximately 1,800 linear feet of 24-inch diameter crude oil pipeline shall be installed by means of horizontal directional boring beneath Little Black Creek and adjacent wetlands with entry at 30° 26' 18.340" N, -88° 29' 41.670" W and exit at 30° 26' 36.370" N, -88° 29' 43.260" W as indicated on the attached diagrams;
3. Approximately 1,800 linear feet of 24-inch diameter crude oil pipeline shall be installed by means of open trenching of tidal wetlands adjacent to the Escatawpa River commencing at 30° 25' 35.748" N, -88° 29' 27.272" W and ending at approximately 30° 25' 51.87" N, -88° 29' 36.79" W as indicated on the attached diagrams;
4. Approximately 2,800 linear feet of 24-inch crude oil pipeline shall be installed by means of open trenching of non-tidal wetlands adjacent to Little Black Creek commencing at 30° 25' 51.87" N, -88° 29' 36.79" W and ending at 30° 26' 18.340" N, -88° 29' 41.670" W as indicated on the attached diagrams;
5. All excess excavated material should be deposited in an approved upland disposal site, and there will be no change in preconstruction contours, elevation, or grade. In tidal marsh areas adjacent to the Escatawpa River, impacted areas should be restored based on the requirements set forth in the attached document titled: *Marsh Restoration Success Guidelines*. A written report shall be provided to DMR upon pipe installation documenting pre- and post- installation site conditions with fixed photo stations every 600 feet of the 1,800 feet open-trenched marsh area. Thereafter, marsh restoration monitoring reports shall be submitted yearly until all success criteria have been satisfied. These reports shall be received in the DMR offices by October 1 of each year;
6. Including the above authorized impacts, approximately 105.49 acres of non-tidal wetlands shall be impacted as a result of mechanized land clearing, temporary trenching and side-casting of fill, and temporary and permanent conversion of forested wetlands to scrub-shrub/herbaceous/emergent wetlands;
7. As mitigation for the impacts authorized in condition #6 above, the applicant shall purchase the appropriate number of mitigation credits to offset the above authorized temporary impacts and temporary/permanent conversion of wetlands. The credit purchase must be completed prior to commencement of construction and proof of purchase of mitigation credits from an approved mitigation bank within the service area (as determined by the Mitigation Bank Review Team) must be submitted to this office;
8. All temporary work pads, access roads, and mats shall be removed following completion of pipeline installation;
9. Impacted areas must be replanted with naturally occurring indigenous species if the area has not re-vegetated to pre-project conditions within 1 year of project completion;
10. No additional crude oil pipelines, natural gas pipelines, electrical transmission lines, water/sewer transmission lines, fiber-optic cable, etc. within the crude oil pipeline right-of-way described in the submitted application is authorized by this Waiver;
11. Prior to the commencement of construction, permittee must submit to the DMR a copy of the Tideland Lease as required by the Secretary of State and as filed in the subject County Land Records, or a statement from the Secretary of State that the permitted activity does not require a Tideland Lease;
12. Best Management Practices shall be used at all times during construction;
13. No construction debris or unauthorized fill material shall be allowed to enter coastal wetlands or waters; and,
14. Vegetated wetlands outside of the pipeline right-of-way and right-of-way access areas shall not be impacted and no permanent wetland impacts are authorized by this Waiver.

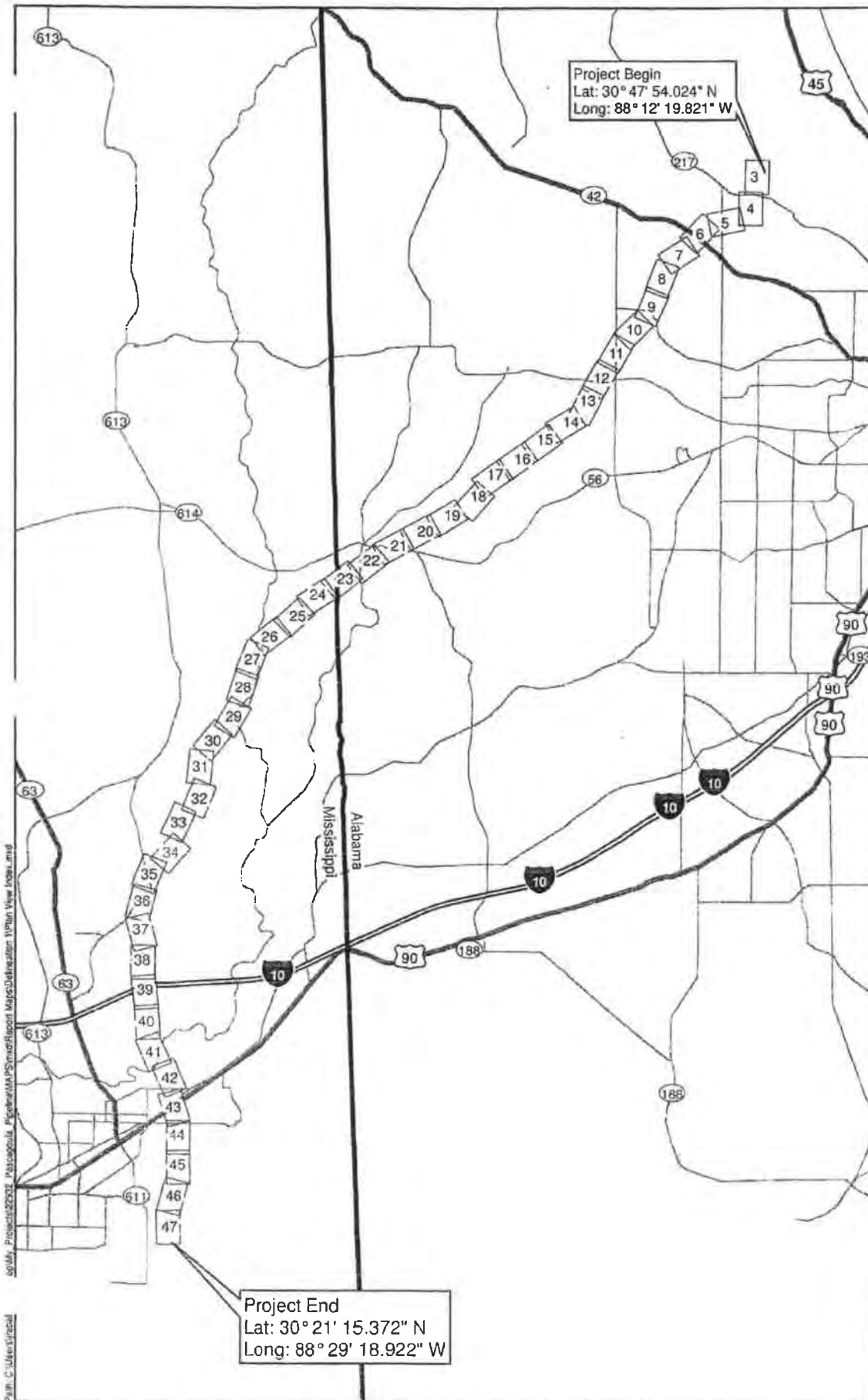
Lower Escatawpa River (and adjacent tidal wetlands), Little Black Creek, and non-tidal USACE jurisdictional wetlands and Section 10 waters located in Jackson County, Mississippi.

**No construction debris or unauthorized fill material shall be allowed to enter coastal wetlands or waters.**

**FURTHERMORE, THIS PROJECT AS PROPOSED HAS BEEN FOUND TO BE CONSISTENT WITH ALL GUIDELINES FOR CONDUCT OF REGULATED ACTIVITIES IN COASTAL WETLANDS AS SET FORTH IN THE MISSISSIPPI COASTAL PROGRAM.**

  
Bureau Director, Wetlands Permitting

**POST THIS NOTICE CONSPICUOUSLY AT SITE OF WORK**



Project Begin  
 Lat: 30° 47' 54.024" N  
 Long: 88° 12' 19.821" W

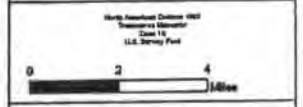
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 Long: 88° 29' 18.922" W

**PLAINS  
 SOUTHCAP L.L.C.**  
**PLAN VIEW INDEX  
 41-MILE-LONG TEN-MILE  
 FACILITY TO PASCAGOULA  
 PIPELINE PROJECT**  
**JACKSON COUNTY, MS  
 MOBILE COUNTY, AL**  
 Page 2 of 47

**LEGEND**  
 Plan View



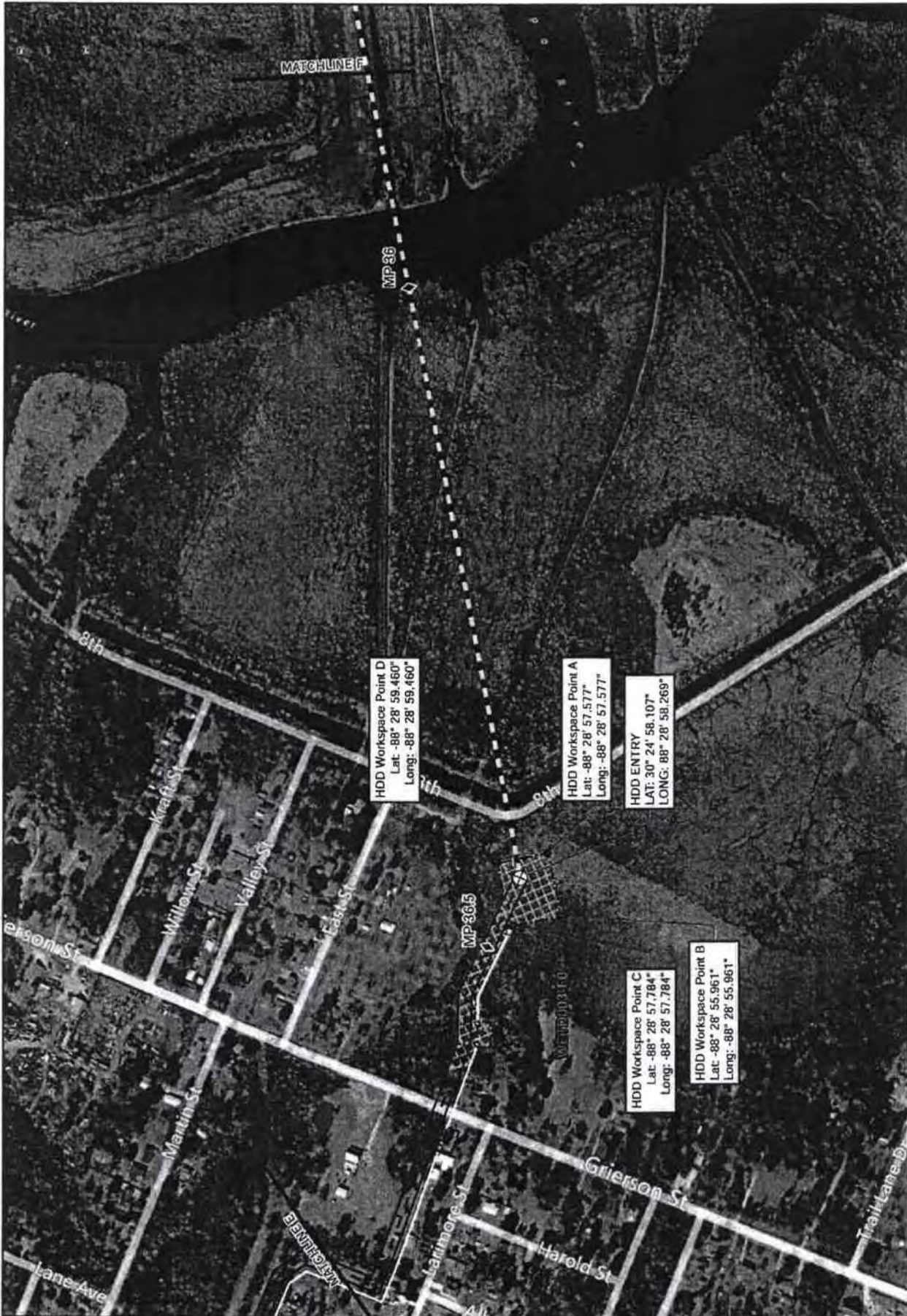
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 Approved By: EM  
 SWCA Project No: 22822  
 Data Produced: 06/22/2015  
 Revision Date:



SWCA, Environmental Consultants  
 7200 Langtry, Suite 300  
 Houston, Texas 77040  
 (713) 864-3900 phone  
 (713) 864-8990 fax  
 www.swca.com

**SWCA**  
 ENVIRONMENTAL CONSULTANTS

6/24/15, Project 22822, Pascagoula, Pipeline/Map/PS/Model/Report Maps/Delineation/Plan View (copy.mxd)  
 Paul C. Williams/jrncal



HDD Workspace Point D  
 Lat: -88° 28' 59.460"  
 Long: -88° 28' 59.460"

HDD Workspace Point A  
 Lat: -88° 28' 57.577"  
 Long: -88° 28' 57.577"

HDD ENTRY  
 LAT: 30° 24' 58.107"  
 LONG: 88° 28' 58.269"

HDD Workspace Point C  
 Lat: -88° 28' 57.784"  
 Long: -88° 28' 57.784"

HDD Workspace Point B  
 Lat: -88° 28' 55.961"  
 Long: -88° 28' 55.961"

Background: Bing Maps Hybrid (01/12)  
 Appointed By: Project Manager, JR  
 SWCA Project No: 22042  
 Date Produced: 1/26/2012  
 Revision Date: 1/16/2012  
 Scale: 1" = 100'  
 Contour Interval: 10'  
 Contour Elevation: 100'  
 Contour Color: Blue

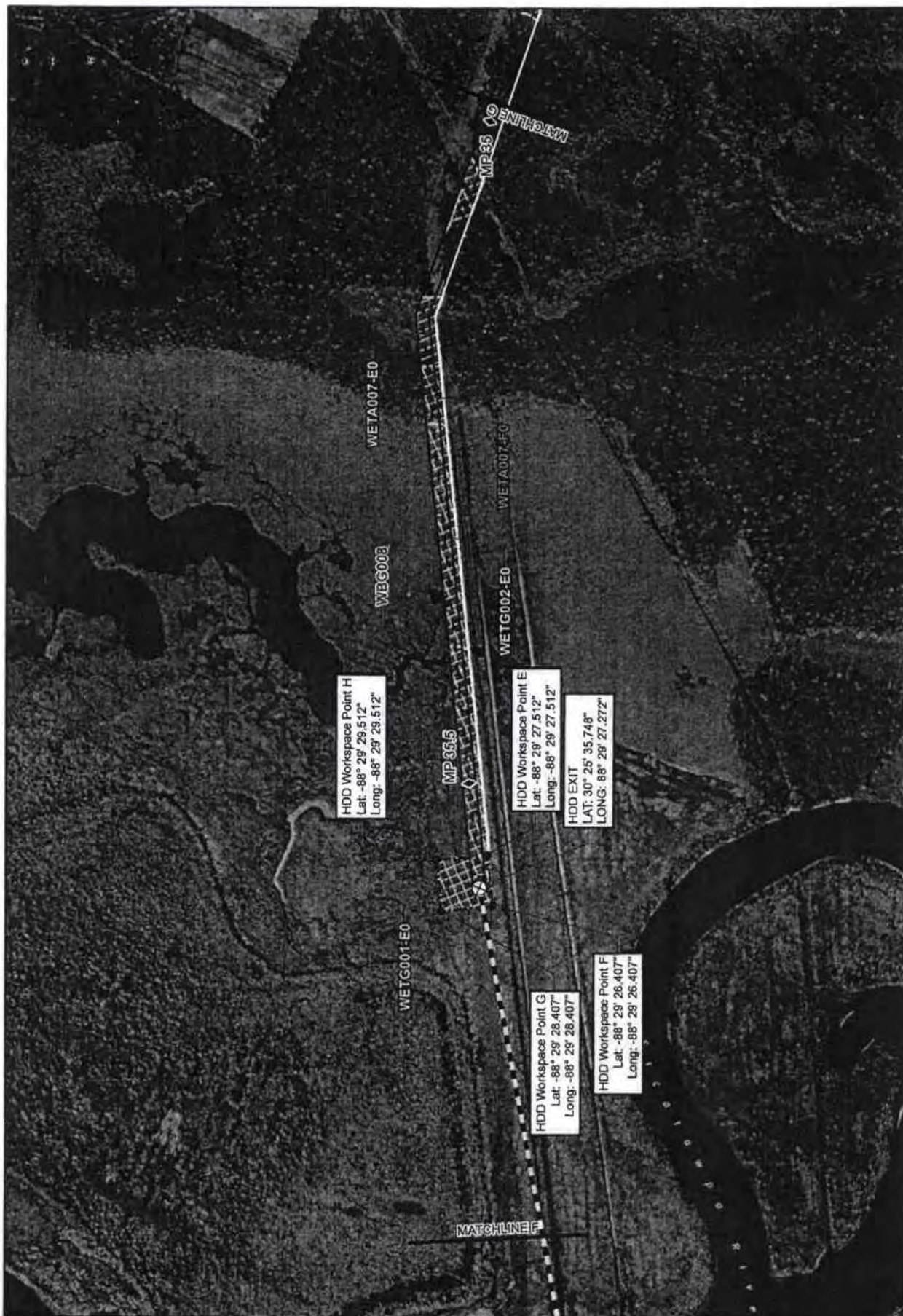
COMMENT:  
 USACE MOBILE DISTRICT

Legend:

- Milepost: Centerline, HDD Centerline, Permanent, Additional
- Temporary: Intertidal, Perennial, Intermittent, Ephemeral
- Pond: EDEM, PEM, PFO, PSS

**PLAINS SOUTHCAP L.L.C.  
 PLAN VIEWS  
 41-MILE-LONG TEN-MILE FACILITY TO  
 PASCAGOULA PIPELINE PROJECT  
 JACKSON COUNTY, MS**

**SWCA**  
 ENVIRONMENTAL CONSULTANTS  
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HDD Workspace Point H  
 Lat: -88° 29' 29.512"  
 Long: -88° 29' 29.512"

HDD Workspace Point E  
 Lat: -88° 29' 27.512"  
 Long: -88° 29' 27.512"

HDD EXIT  
 LAT: 30° 25' 35.748"  
 LONG: 88° 29' 27.272"

HDD Workspace Point G  
 Lat: -88° 29' 28.407"  
 Long: -88° 29' 28.407"

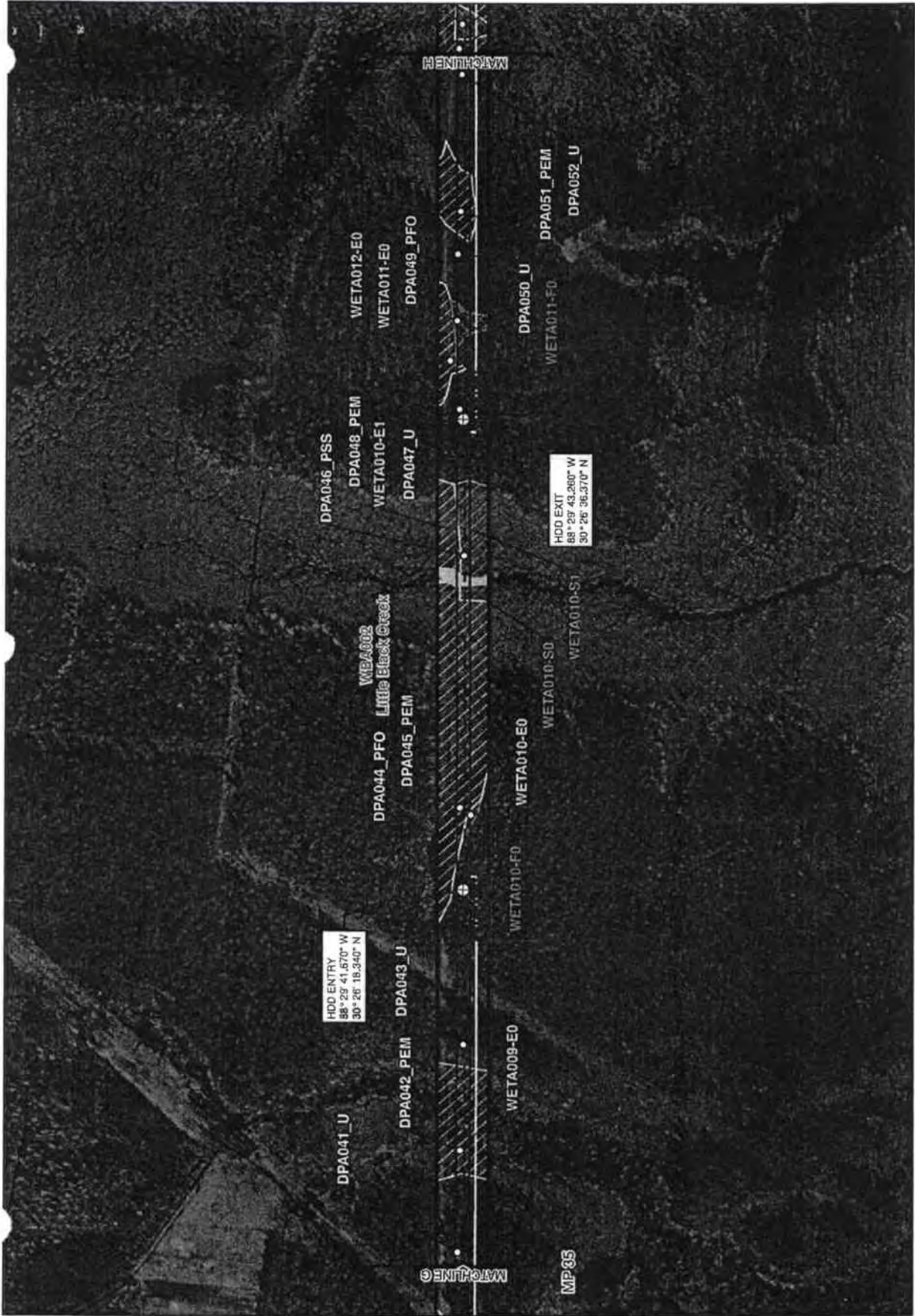
HDD Workspace Point F  
 Lat: -88° 29' 26.407"  
 Long: -88° 29' 26.407"

**SWCA**  
 ENVIRONMENTAL CONSULTANTS

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**PLAINS SOUTHCAP L.L.C.**  
**PLAN VIEWS**  
**41-MILE-LONG TEN-MILE FACILITY TO**  
**PASCAGOULA PIPELINE PROJECT**  
**JACKSON COUNTY, MS**

<ul style="list-style-type: none"> <li>◆ Milepost</li> <li>- Centerline</li> <li>○ HDD Centertine</li> <li>□ Permanent</li> <li>▭ Additional</li> </ul>	<ul style="list-style-type: none"> <li>Temporary</li> <li>Intermittent</li> <li>Perennial</li> <li>Intermittent</li> <li>Ephemeral</li> </ul>	<ul style="list-style-type: none"> <li>Pond</li> <li>EZEM</li> <li>PEM</li> <li>PFO</li> <li>PSS</li> </ul>	<p>USACE MOBILE DISTRICT</p> <p>Background: Bing Maps Hybrid (2012)              Mapper: dg              Approved By: Project Manager              SWCA Project No: 22922              Date Produced: 10/09/12              Navigation Date: 11/20/12</p> <p>Scale: 1" = 100 Feet</p>
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<p><b>SWCA</b> ENVIRONMENTAL CONSULTANTS</p> <p>Sheet 40 of 47</p>	<p><b>PLAINS SOUTHCAP L.L.C.</b> <b>WETLAND DELINEATION MAP</b> <b>41-MILE-LONG TEN-MILE FACILITY TO</b> <b>PASCAGOULA PIPELINE PROJECT</b> <b>JACKSON COUNTY, MS</b></p>	<p><b>SOURCE:</b> USACE MOBILE DISTRICT</p> <p><b>Legend:</b></p> <ul style="list-style-type: none"> <li>--- Contour</li> <li>Permanent Flow</li> <li>Temporary Flow</li> <li>Additional Wetlands</li> <li>2007 Survey</li> <li>Unsurveyed Areas</li> <li>PEM</li> <li>PFD</li> <li>PSS</li> <li>EEM</li> <li>Sigrams</li> <li>Sample Point</li> <li>Milepost</li> <li>HDD Entry/Exit</li> </ul>	<p><b>Background:</b> Bing Maps Hybrid (2012)</p> <p><b>Prepared by:</b> Preliminary Draft</p> <p><b>Date Produced:</b> 8/20/2012</p> <p><b>Revision Date:</b></p> <p><b>Scale:</b> 1" = 100'</p> <p><b>North Arrow</b></p>
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