

# JOINT PUBLIC NOTICE

June 17, 2013

United States Army  
Corps of Engineers  
New Orleans District  
Regulatory Branch  
Post Office Box 60267  
New Orleans, La. 70160-0267

(504) 862-2224 FAX (504) 862-2574  
Project Manager  
Bobby Quebedeaux  
Permit Application Number  
MVN-2013-0325-WJJ

State of Louisiana  
Department of Environmental Quality  
Post Office Box 4313  
Baton Rouge, LA 70821-4313

(225) 219- 3225 FAX (225) 325-8250  
Project Manager  
Jamie Phillippe  
Application Number  
WQC 130614-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to:  Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or  Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS 30:2074 A(3) and provisions of Section 401 of the Clean Water Act.

## **Construct a crude oil transportation terminal in St. Mary Parish**

**NAME OF APPLICANT:** Gavilon Midstream Energy, L.L.C., Attn: Charles Firth, 1331 Lamar Street, Suite 1650, Houston, Texas 77010

**LOCATION OF WORK:** LA Hwy 317 in Centerville, Louisiana, in St. Mary Parish (29.68234, -91.46409, Bayou Teche Watershed, HUC: 08080102), as shown in the attached drawings dated March 20, 2013.

**CHARACTER OF WORK:** Construct a crude oil transportation terminal, with dredging of approximately 8,930 cubic yards from an existing slip (to be trucked to an upland site). Project as proposed would impact approximately 0.39 acres of "other waters" and no wetlands.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed, so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. **Individuals or parties may request an extension of time in which to comment on the proposed work by writing to the project manager or clicking on the project manager's name on the public notice grid on the web page. Any request must be specific and substantively supportive of the requested extension and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.** Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

No properties listed on the National Register of Historic Places are near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and the State Historic Preservation Officer.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of **0.39 acre(s)** of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate water quality standards will be required from the Department of Environmental Quality before a permit is issued.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

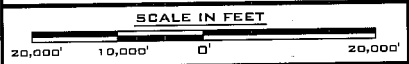
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara  
Chief, Western Evaluation Section  
Regulatory Branch

Enclosure

ST. MARY PARISH,  
LOUISIANA



SHEET 1 OF 3

VICINITY MAP

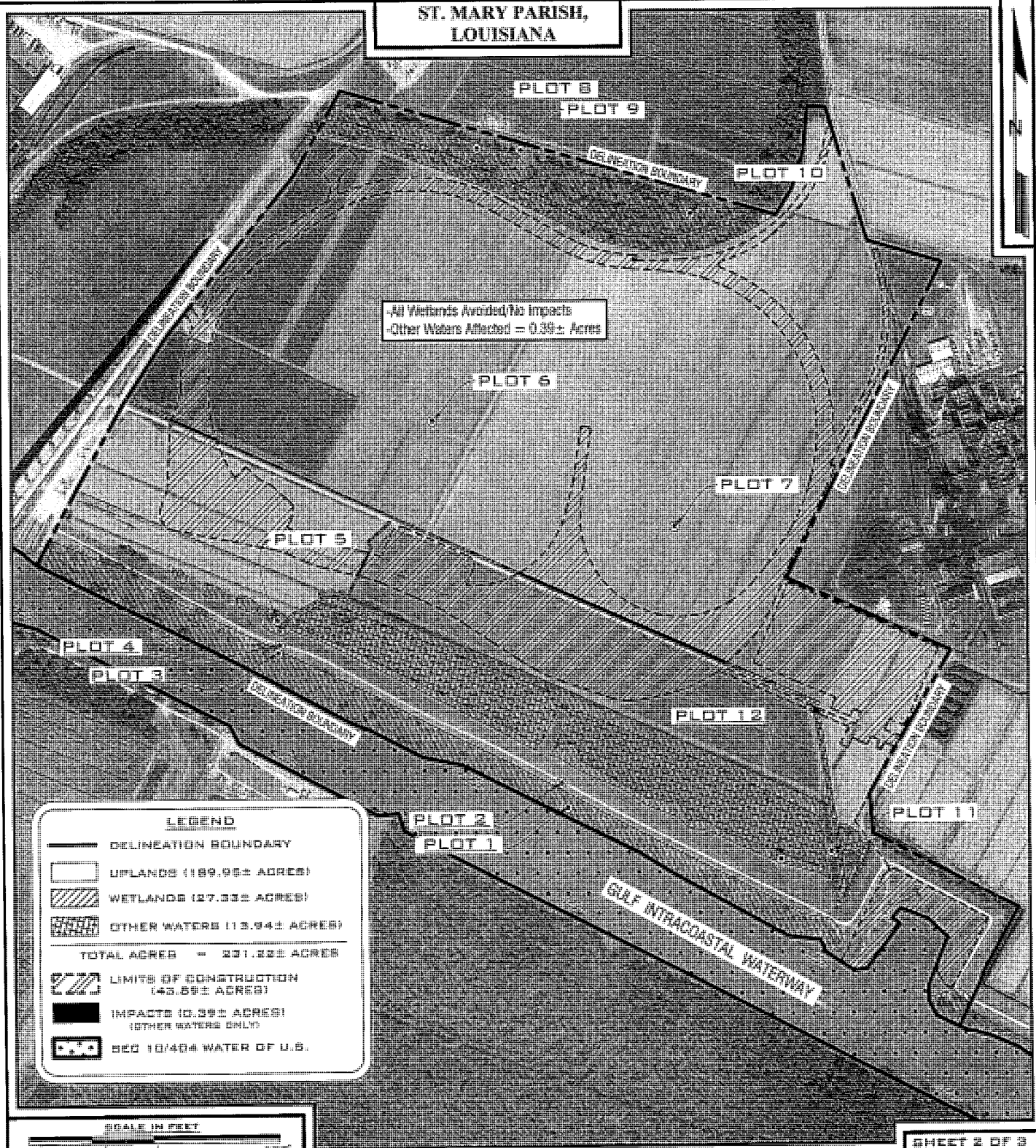
GAVILON MIDSTREAM ENERGY, L.L.C.  
WETLAND DELINEATION  
LOCATED IN SECTIONS 1 & 4, T16S-R10E  
ST. MARY PARISH,  
LOUISIANA



SCALE: 1"=20,000'  
DATE: 06-12-13



ST. MARY PARISH,  
LOUISIANA



-All Wetlands Avoided/No Impacts  
-Other Waters Affected = 0.39± Acres

**LEGEND**

- DELINEATION BOUNDARY
- UPLANDS (189.96± ACRES)
- WETLANDS (27.33± ACRES)
- OTHER WATERS (13.94± ACRES)
- TOTAL ACRES = 231.22± ACRES**
- LIMITS OF CONSTRUCTION (43.59± ACRES)
- IMPACTS (0.39± ACRES) (OTHER WATERS ONLY)
- SEC 10/404 WATER OF U.S.



SHEET 2 OF 3

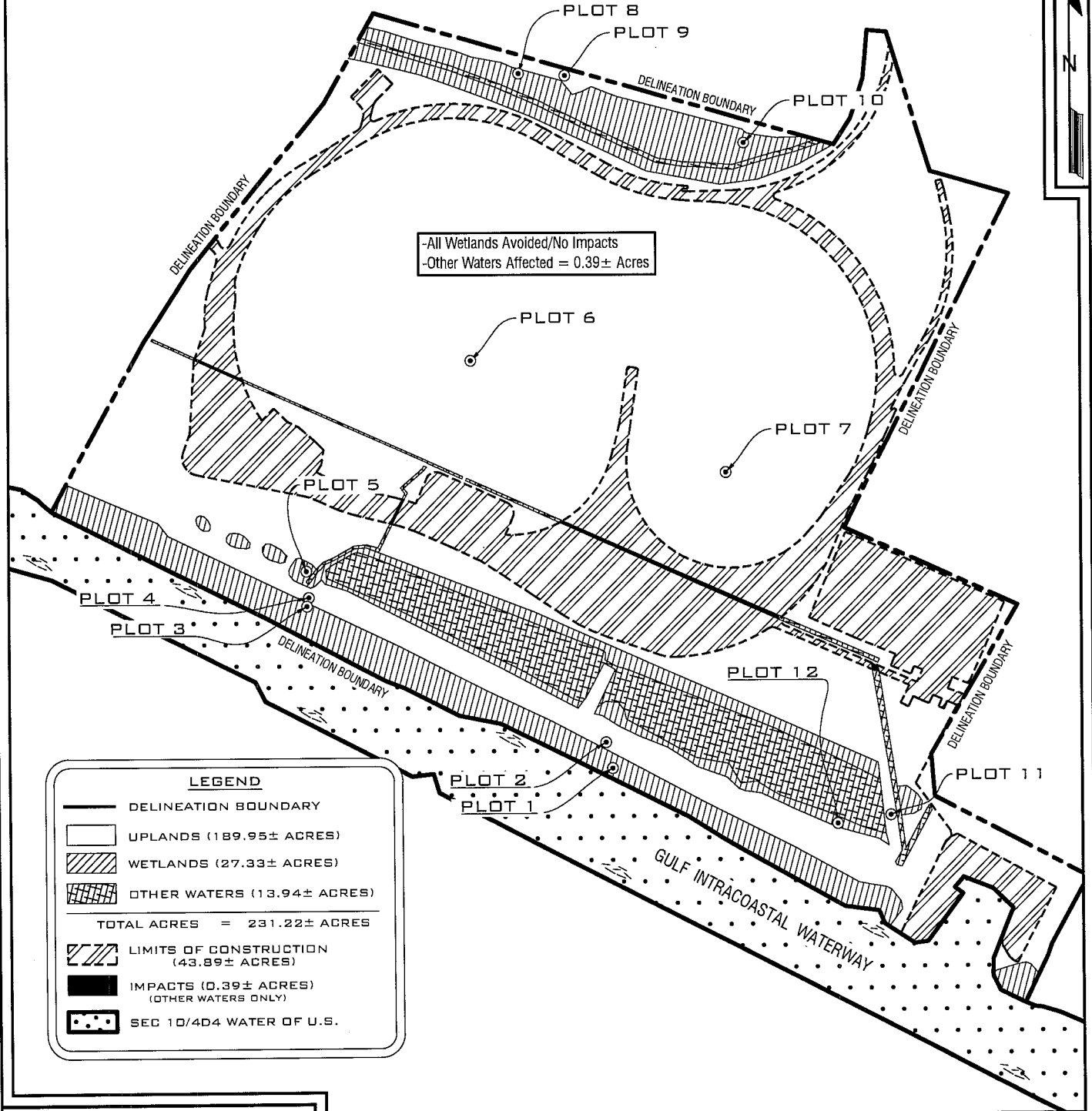
**WETLAND DELINEATION-AERIAL VIEW**

**GAVILON MIDSTREAM ENERGY, L.L.C.**  
WETLAND DELINEATION  
LOCATED IN SECTIONS 1 & 4, T16S-R10E  
ST. MARY PARISH,  
LOUISIANA



SCALE: 1"=600'  
DATE: 06-12-13

ST. MARY PARISH,  
LOUISIANA



-All Wetlands Avoided/No Impacts  
-Other Waters Affected = 0.39± Acres

**LEGEND**

- DELINEATION BOUNDARY
- UPLANDS (189.95± ACRES)
- ▨ WETLANDS (27.33± ACRES)
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- TOTAL ACRES = 231.22± ACRES
- ▧ LIMITS OF CONSTRUCTION (43.89± ACRES)
- IMPACTS (0.39± ACRES) (OTHER WATERS ONLY)
- ◻ SEC 10/4D4 WATER OF U.S.



SHEET 3 OF 3

**WETLAND DELINEATION-PLAN VIEW**

**GAVILON MIDSTREAM ENERGY, L.L.C.**  
WETLAND DELINEATION  
LOCATED IN SECTIONS 1 & 4, T16S-R10E  
ST. MARY PARISH,  
LOUISIANA



SCALE: 1"=600'  
DATE: 06-12-13

June 13, 2013

**Gavilon Midstream Energy, L.L.C.**  
**USACE Permit Application: MVN-2013-0325-WJJ**

Narrative to Preliminary Jurisdictional Determination

Based on the facility footprint on the subject property, all wetlands will be avoided and no wetland impacts will occur for construction and operation of the facility.

A total of +/- 0.39 acres of other waters will be impacted. Maintenance dredging of an existing slip will consist of the removal of 8,930 cubic yards of material from an area measuring 2.3 acres.

**LDNR/USACE Joint Permit Application Additional Information  
Gavilon Midstream Energy, L.L.C.**

Step 5a: Describe the Project:

The project consists of constructing of a crude oil transportation terminal consisting of loading and unloading facilities for marine barges and unloading facilities for railcars and tank trucks.

The facility will construct the following structures: railroad with an unloading rack, truck unloading pad, site access road, tank farm access road, operations/control buildings, parts and storage buildings, pump stations, railcar spill containment basin, tank farm with containment, flares and associated underground and aboveground piping. Each of the above mentioned structures are described below:

Railroad with an unloading rack: 23,810' of railroad tracks and turnouts will be constructed on compact subgrade, subballast and ballast. The unloading rack will consist of two tracks and an access road on both sides of the rack. A portion of the railroad system will consist of six tracks to facilitate bad order tracks and turnarounds. (See Sheets 3, 4, 5, 15) The unloading rack will have associated aboveground and buried piping for moving oil to the tank battery and for spill containment. (See Sheet 27) The unloading rack will consist of a concrete slab built on a compacted subgrade, subballast, and ballast. (See Sheet 15)

Tank Farm: The tank farm will be approximately 670' x 302' with a 6' containment wall. It will be constructed of native soil and a 60 mil liner. Three options are being designed for the tank base consisting of compacted sand fill on native soil, excavation of native soil and replaced with 30' of compacted sand, or the installation of 1' diameter x 90' length piles on a 5' grid. (See Sheet 6) Two, steel tanks with a 125' diameter and each with a volume of 125,000 bbls will be constructed inside of the tank farm containment. The containment is being constructed to accommodate the future construction of two additional tanks if needed. Security lighting and a 6' security fence will be installed around the tank battery.

Containment Basin: The containment basin for the railcar and truck unloading area will consist of an area 91' x 320' with a 6' containment wall. The containment basis will be constructed of native soil with a 60 mil liner. The containment will be utilized to contain any spillage from the unloading area of the facility. (See Sheet 7)



Truck Unload Pad: The truck unload pad will consist of a curbed concrete pad with a drain to the spill containment basis and a 4" unloading pipe to the tank battery. The pad will be constructed on compacted soil and granular base. (See Sheet 8)

Pump Stations: The facility will construct four pump station pads to facilitate the pumping of crude oil to and from the tank battery from the railcar, truck and barge loading and unloading areas. The pads will consist of concrete pads constructed on compacted soil and compacted sand. (See Sheets 9, 10, 11 and 12) A MCC building will be constructed on concrete column foundations at each pump station. (See Sheet 13 and 14)

Operations Buildings and Parts and Storage Buildings: Two operation buildings and two parts and storage building will be constructed on piers at the facility. One set will be built near the unloading rack and the one set will be built near the tank farm. The foundations will consist of 2'-6" x 2'-6" x 4' piers (10 each) and a 6" reinforced concrete slab. (See Sheets 16, 17, 18, and 19)

Flare Pad and Blower Pad: A 40' x 40' concrete pad will be constructed on compacted soil and sand for two flares and a blower. (See Sheet 20)

Steam Boiler Pad: A 25' x 25' concrete pad will be constructed on compacted soil and sand for a steam boiler unit. (See Sheet 21)

Access Roads: The site access road will consist of a 38' wide road constructed of compacted soil and rock. A 24' diameter x 53' pipe will be installed in the drainage ditch along the parish roadway. (See Sheet 22) The side access road will be approximately 100' in length.

The access road around the track will be approximately 13' wide x 7,700' in length and constructed compacted subgrade and subballast. (See Sheets 3, 4 and 5)

Tank Farm Access Road: The tank farm access road will be 25' wide x 1,700' in length and constructed of compacted soil and compacted rock. (See Sheet 23)

Pipeline Crossings: The railroad and access roads will cross 8 buried pipelines consisting of 2 petroleum lines and 5 natural gas lines. Two separate pipeline crossing details are contained in the drawings. (See Sheets 25 and 26)

Pipe Supports and Light Supports: Pipe supports will be placed every 20' for aboveground piping. Pipe supports will be buried approximately 5' deep and vary in height. Light supports will be placed as needed to provide sufficient lighting for the facility. Light supports will be buried approximately 5' deep and vary in height. (See Sheet 28)

On-site Borrow Pit: An on-site borrow pit will be excavated to provide fill for structures. Approximately 132,086 cubic yards will be excavated from the borrow pit with 107,568 cubic yards as usable material. (See Sheet 37)

Levee Crossing: A concrete box culvert will be installed on top of the existing levee to facilitate the crossing of pipelines for the barge loading and unloading area. Fill material will be placed on both side of the levee crossing and on top to maintain road access on the levee. (See Sheet 41 and 42) Pipe support details, pipe trench details and utility pole details are located on Sheets 47, 48 and 49. Approximately 3,973' of overhead utility lines will be installed on site.

Access Road Crossing: A concrete box culvert will be installed in the existing access road for the barge loading and unloading area to facilitate the crossing of pipelines for the barge loading and unloading area. Fill material will be placed on both side of the access road crossing and on top to maintain the road access. (See Sheet 41 and 43)

Barge Loading and Unloading Slip: An existing slip will be utilized for loading and unloading barges. Two, 54' x 300' marine barges can be loaded or unloaded at a time. The barges will have a 9.5' draft. (See Sheet 41) Five, 5-pile mooring clusters will be installed on the western side of the slip. Dock safety skids measuring 8' x 12' x 6" concrete pads over 6" of compacted aggregate will be constructed on the east side and west side of the slip. Valve manifolds and associated underground piping will be constructed on the east and west side of the slip. A hose hoist will be constructed of a 24" diameter steel pipe pile 60' in length on the east and west side of the slip. (See Sheet 44)

Slip Dredging: The slip will be maintenance dredged to a depth of -13.06' NAVD88 (-12.78' NGVD) to facilitate the loading and unloading of the marine barges. Approximately 8,930 cubic yards of material will be removed from the slip and hauled by dump truck on existing roadways and stored on site in a non-wetland area approximately 150' x 300'. (See Sheets 45 and 46)

Rail Unloading Pipelines: The rail unloading area will have the following pipelines aboveground and buried to the tank farm:

Crude Oil Lines:

2 - 2650' - 20" O.D. Steel Pipelines

1 - 2650' - 36" O.D. Steel Pipeline

Steam Line:

1 - 2650' - 4.5" O.D. Steel Pipeline

Condensate Return Line:

1 - 2650' - 2.375" O.D. Steel Pipeline

Barge Unloading Pipelines: The barge loading/unloading area will have the following pipelines aboveground and buried to the tank farm:

Crude Oil Lines:

3 - 1002' - 18" O.D. Steel Pipelines

Steam Line:

1 - 560' - 4.5" O.D. Steel Pipeline

Condensate Return Line:

1 - 560' - 2.375" O.D. Steel Pipeline

Vapor Piping:

1 - 750' - 8" O.D. Steel Pipeline

Step 8e: Why is the proposed project needed?

The proposed project is needed to facilitate the transportation of crude oil to refineries via rail and marine transportation.

Step 11b: What alternative locations, methods and access routes were considered to avoid impact to wetlands and/or waterbottoms?

Alternative locations were identified throughout Coastal Louisiana that could facilitate rail and marine transportation. Few properties are available that both a navigable waterway and railway access. A property near the Port of West St. Mary was evaluated but contained more wetlands than the selected site.

Another property was evaluated in Terrebonne Parish, but the property did not have adequate space for the placement of the railway needed to facilitate the number of rail cars from trains utilizing the facility.

Another alternative evaluated was the use of land transportation only via pipelines or tank trucks. The pipeline option would have impacted more wetlands than the existing site. The tank truck only option was not feasible due to the unavailability of trucking companies that can haul the amount of crude oil that the facility will be accepting. Also, the

environmental impact (air emissions) with trucking is much greater than rail or marine transportation.

Step 11c: What efforts were made to minimize impact to wetlands and/or waterbottoms.

Site selection for the facility was based on the amount of wetlands that would be impacted from the construction of the facility. Gavilon was able to negotiate with a neighboring company to utilize an existing slip to minimize wetland and waterbottom impacts from the construction of a new slip to facilitate the barge loading and unloading facility.

Step 11d: How are unavoidable impacts to vegetated wetlands to be mitigated?

If unavoidable impacts to vegetated wetlands occur, they will be mitigated in accordance to recommendations by the LDNR/USACE, most notably via mitigation banking or compensation to the Louisiana Wetlands Conservation and Restoration Fund.

Step 12 c: Does the project involve drilling, production and/or storage of oil and gas?

The facility will have the capacity to store 250,000 barrels of crude oil. The tank farm will be constructed in accordance to Louisiana Department of Environmental Quality (LDEQ) (LAC 33: IX. Chapter 9) and U. S. Environmental Protection Agency (USEPA) (40 CFR 112) standards in their respective Spill Prevention, Containment and Countermeasure regulations. The SPCC plans will be certified by a licensed, Louisiana Professional Engineer. The facility will also prepare the required Facility Response Plans as required by the USEPA and the U.S. Coast Guard.



April 18, 2013

Ms. Sharon McCarthy  
LDNR - Office of Coastal Management  
P.O. Box 44487  
Baton Rouge, Louisiana 70804-4487

**RE: REQUEST FOR INFORMATION  
P20130418, Coastal Use Permit Application  
Gavilon Midstream Energy, L.L.C.  
St. Mary Parish**

Dear Ms. McCarthy:

KEE Environmental Services, L.L.C. (KES) has received your letter dated April 12, 2013 requesting additional information on the above referenced Coastal Use Permit.

As per your request under the general requirements, KES contacted Mr. Dave Butler with the Louisiana Department of Wildlife and Fisheries (LDWF) on April 16, 2013 to discuss any concerns LDWF may have with the project. Mr. Butler advised that he had not received a copy of the CUP application since the application has not been placed on public notice. I asked Mr. Butler to please call me after he had review the CUP application to discuss any issues the LDWF may have with the project. I also asked Mr. Butler to please contact you after his review to discuss any issues that the LDWF may have with the project.

As per your request under project specific requirements, the CUP application was updated online today, April 18, 2013 as per the following:

- Step 10a: Acres of Excavation: 69.43 acres
- Step 10b: Acres of Fill: 44.54 acres
- Step 11a: Revised to from 1.25 acres to 1.88 acres to include waterbottom excavation from within the slip.

Thank you for your assistance with obtaining our CUP. Please contact me at 985-855-4594 or via email at [eeuesjr@bellsouth.net](mailto:eeuesjr@bellsouth.net) if you have any questions or concerns.

*Member of the National Registry of Environmental Professionals*

1463 St. Charles Street, Suite 800

Houma, LA 70360

Phone: 985-872-5363

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OFFICE OF COASTAL MANAGEMENT

P20130418  
Gavilon Midstream Energy, L.L.C.

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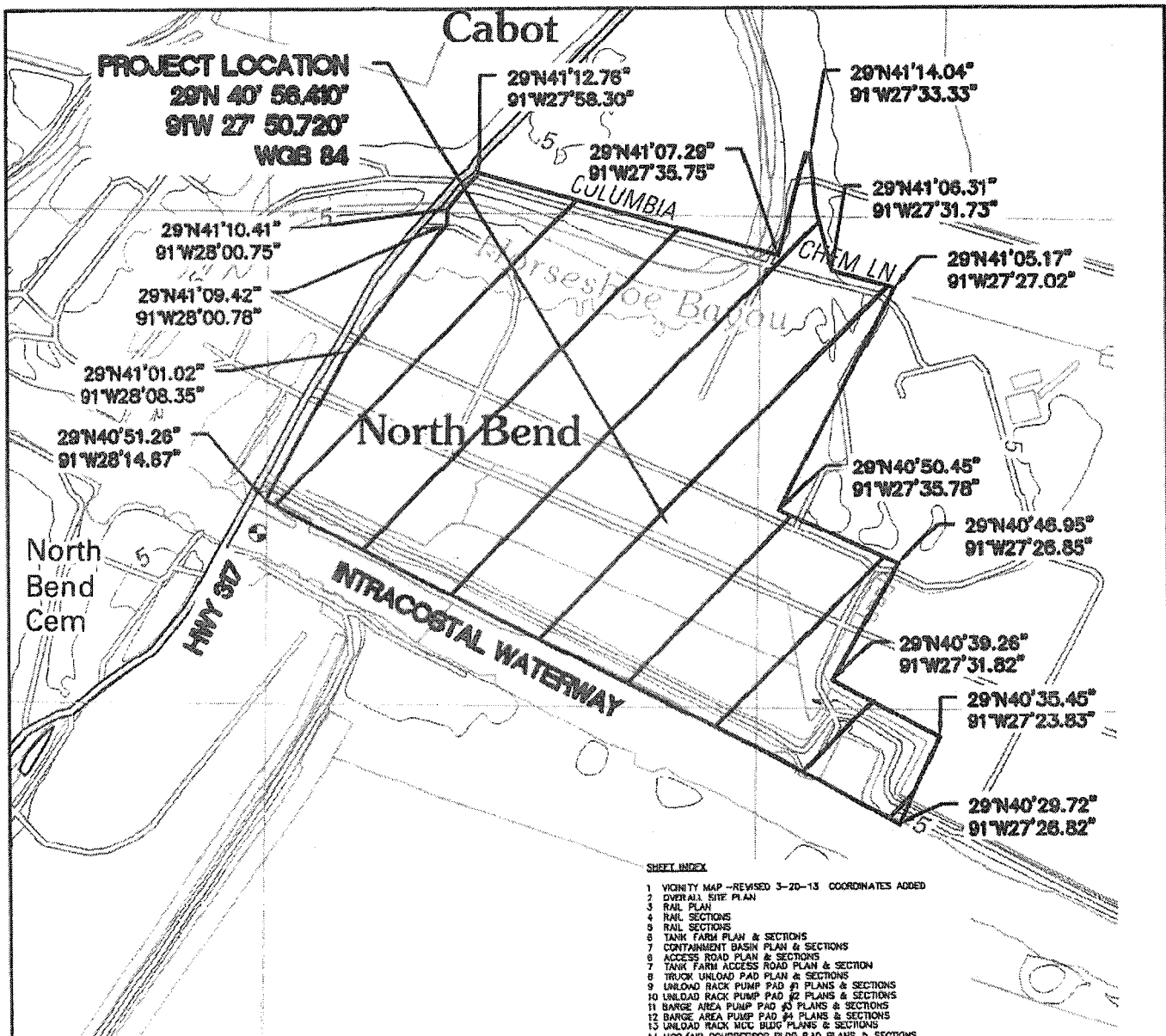
Sincerely,



Earl J. Eues, Jr., REM  
Client Manager

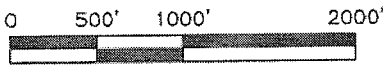
Cc: Mr. Charles Firth, P.E.  
Gavilon Midstream Energy, L.L.C.





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**FOR PERMIT USE ONLY**

**STROBEL STAROSTKA**  
CONSTRUCTION LLC  
1000 S. 10TH, CLARKS, NE 68628  
402-884-0000 FAX 402-884-0000

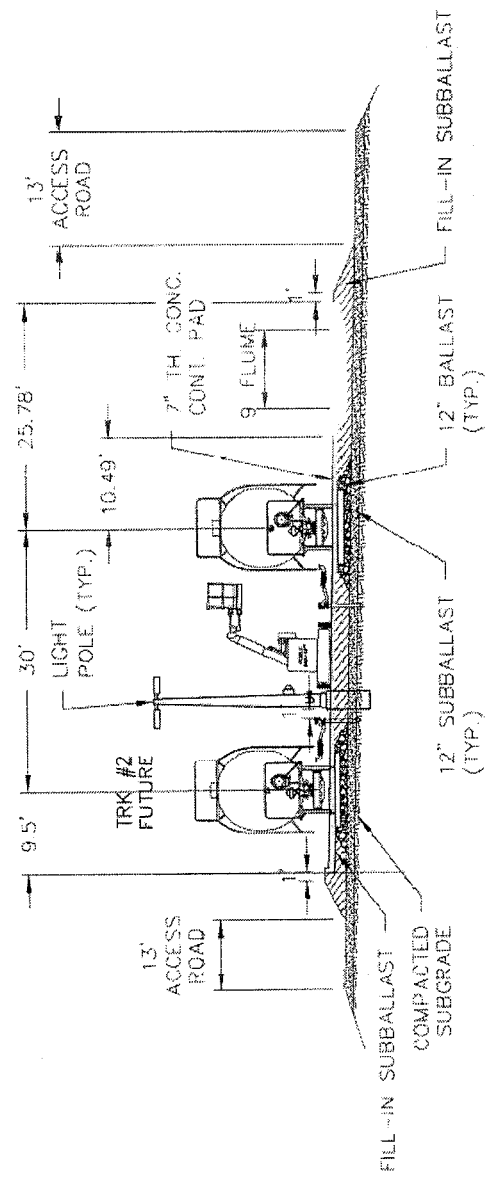
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CLARKS, NEBRASKA 68628

**GAVILON MIDSTREAM**  
**ENERGY, LLC**  
(SITE LOCATION) INTERSECTION CABOT RD &  
COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.

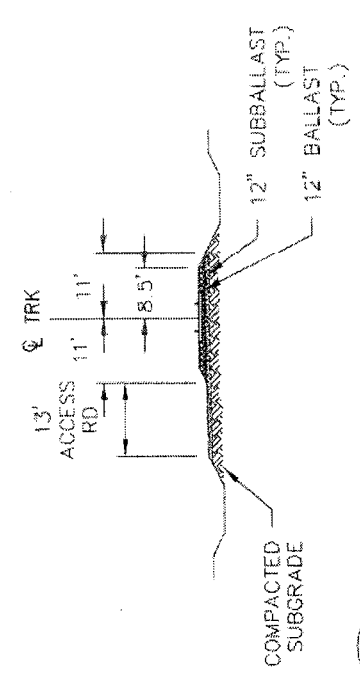
**GAVILON**  
**SITE VICINITY MAP**





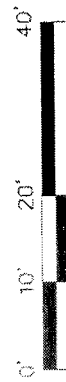


**A-A**  
UNLOAD RACK AREA  
Scale: 1" = 20'



**B-B**  
SINGLE TRACK  
Scale: 1" = 30'

NOTE: ALL DITCH SLOPES ARE 3:1



**STROBEL STAROSTKA**  
CONSTRUCTION, LLC  
COMMERCIAL & INDUSTRIAL CONSTRUCTION  
P.O. BOX 187, CLARKS, NE, 68526  
(308)548-2284 FAX (308)548-2164

QUANTITIES SHOWN ARE ESTIMATED FOR THE C.O.E. PERMIT APPLICATION ONLY AND ARE SUBJECT TO CHANGE DURING FINAL DESIGN.

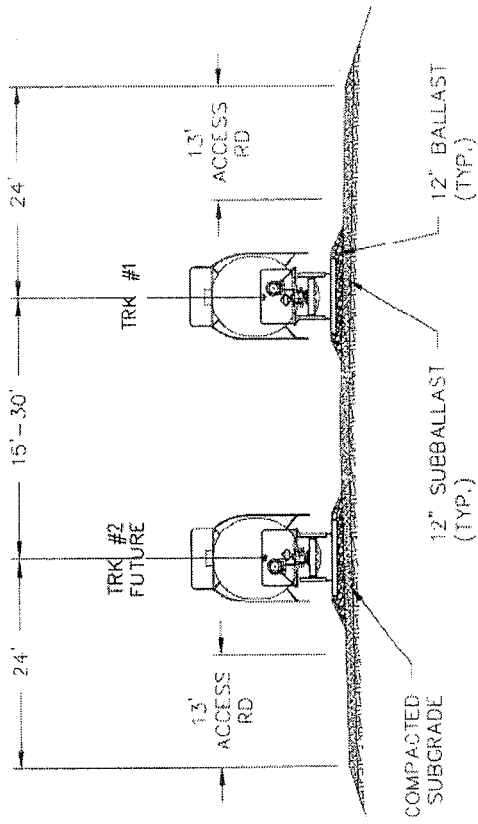
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**GAVILON MIDSTREAM ENERGY, LLC**

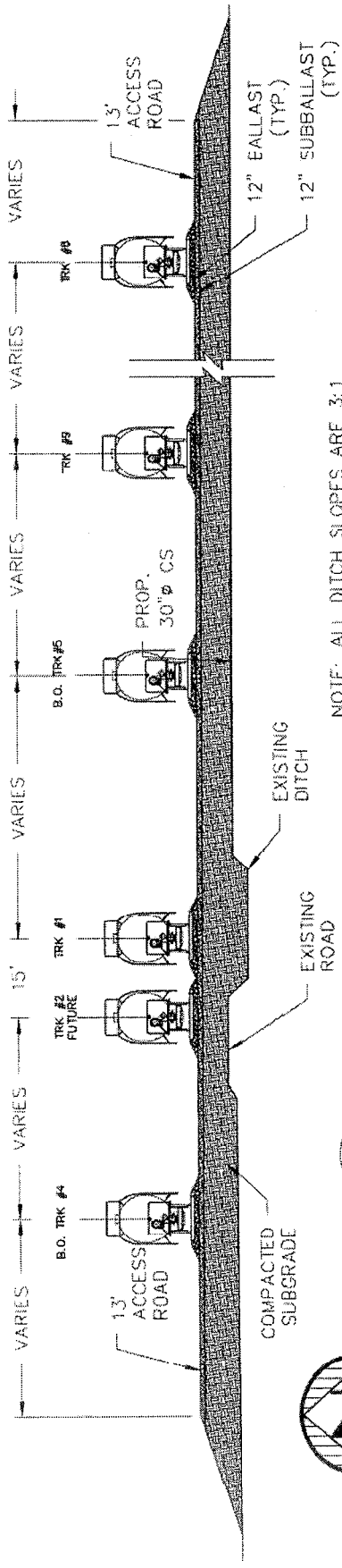
(SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.

**GAVILON**  
RAIL SECTIONS



**C-C** DOUBLE TRACK OUTSIDE LOADRACK AREA

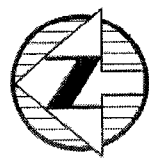
Scale: 1" = 20'



NOTE: ALL DITCH SLOPES ARE 3:1

**D-D** SIX TRACK SECTION

Scale: N.T.S.

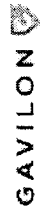


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**STROBEL STAROSTKA**  
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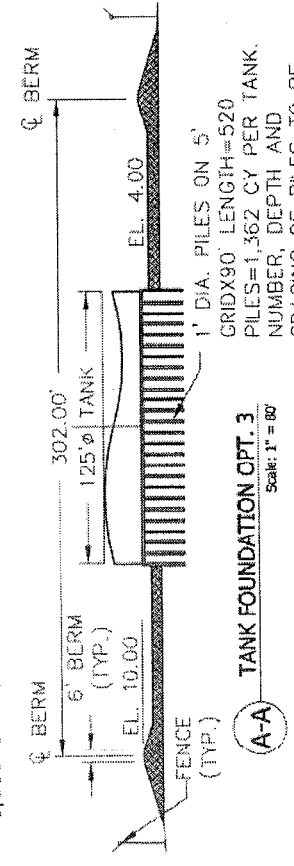
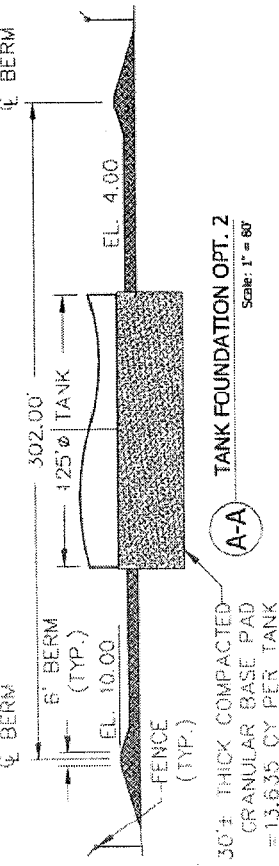
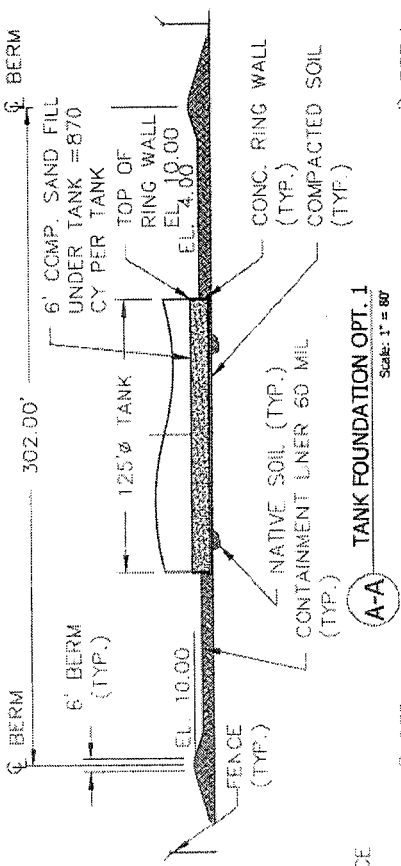


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(SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

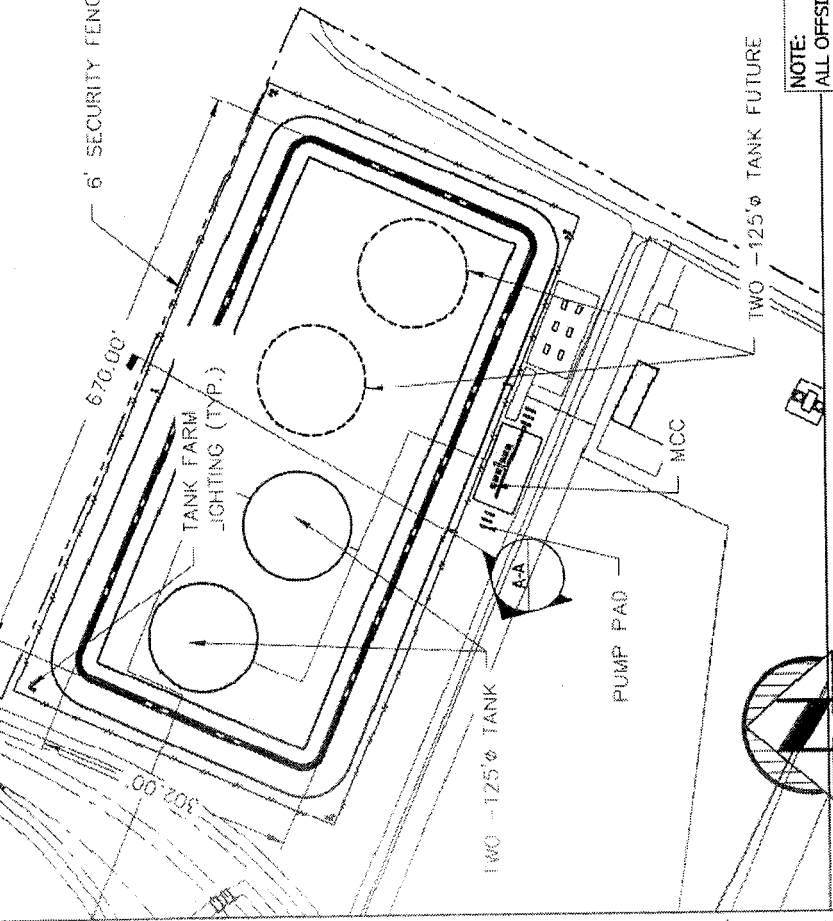
**RAIL SECTIONS**

TANK FARM GRADING  
 9,729 CY 1' STRIPPING  
 54,253 CY BORROW REQUIRED  
 OPTION 1  
 SAND FILL=870 CY(2 TANKS)=1,740 CY  
 OPTION 2  
 EXCAVATION=27,270 CY  
 GRANULAR FILL=13,635 CY(2 TANKS)=27,270 CY  
 OPTION 3  
 EXCAVATION=2,724 CY  
 CONC. PILING=1,362 CY(2 TANKS)=2,724 CY



NOTE:  
 ALL OFFSITE BORROW MATERIAL  
 SHALL BE PROPERLY PERMITTED.

NOTE: ALL SLOPES ARE 3:1



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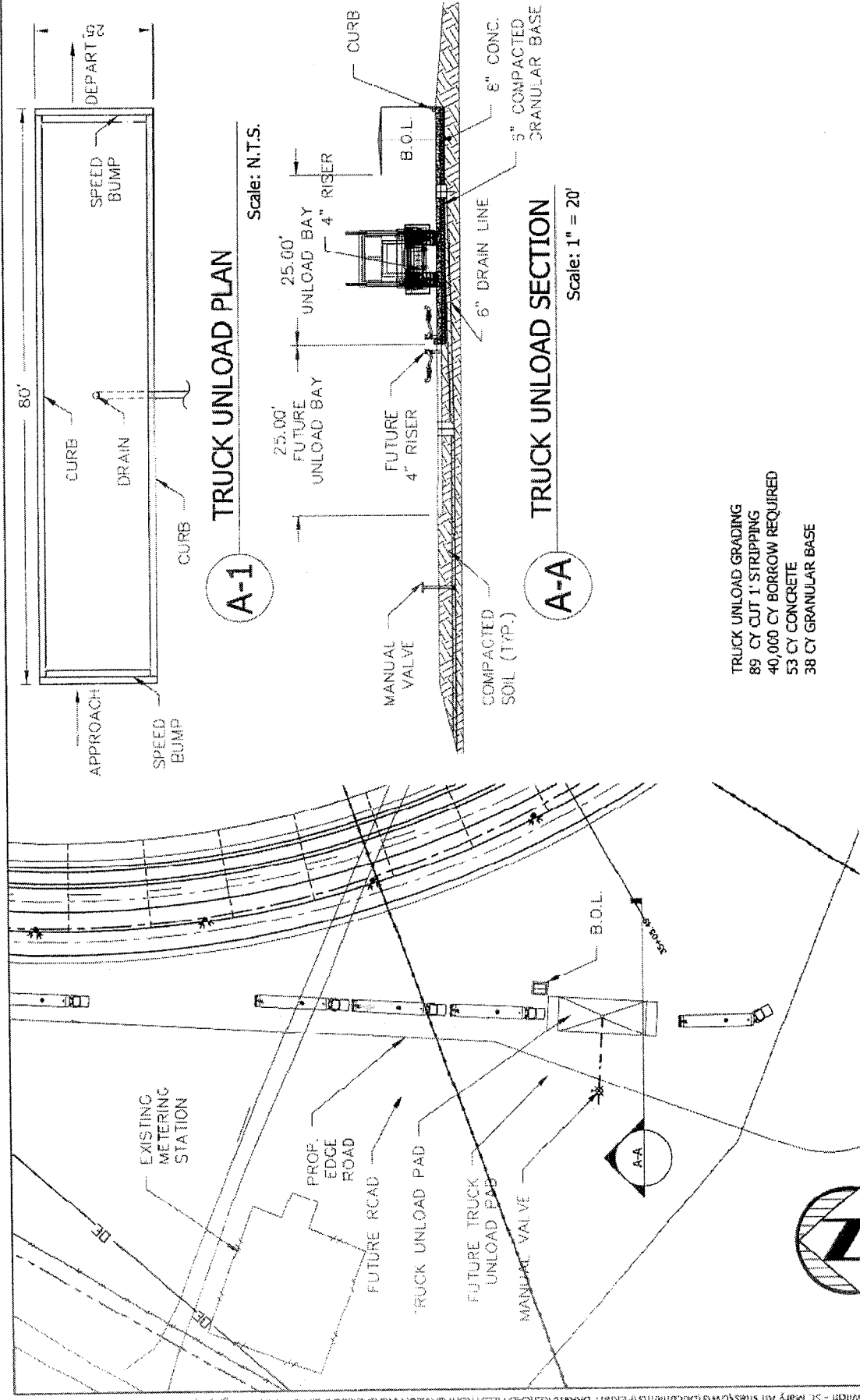
(SITE LOCATION) INTERSECTION CABOT RD. &  
 COLUMBIA CHEMICAL LANE  
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**GAVILON**

**TANK FARM PLAN & SECTIONS**







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(308)548-2284 FAX (308)548-2164

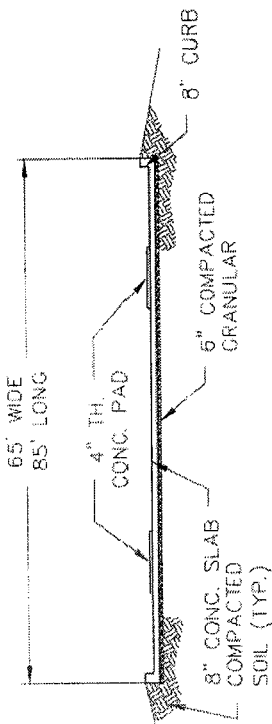
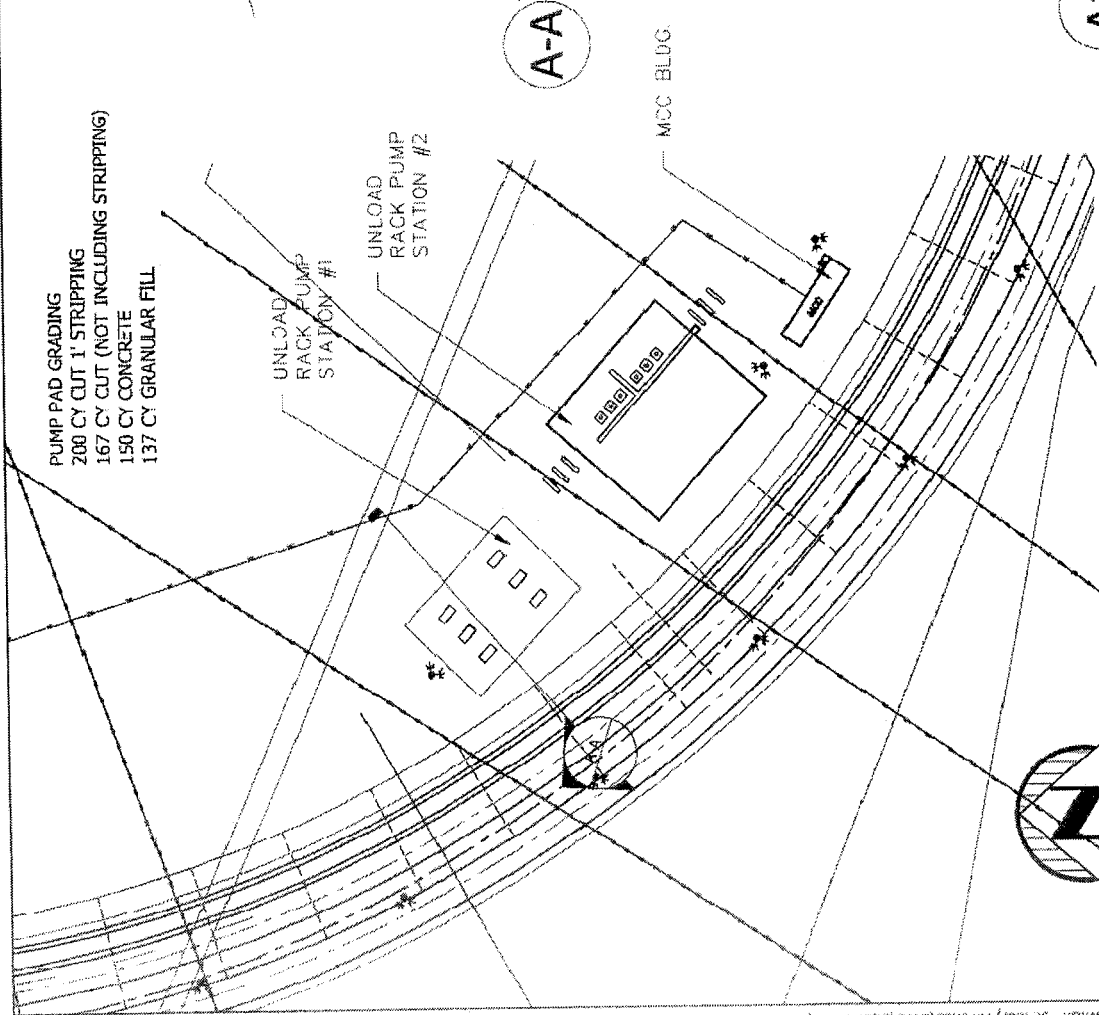
**GAVILON**

**GAVILON MIDSTREAM ENERGY, LLC**  
(SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.

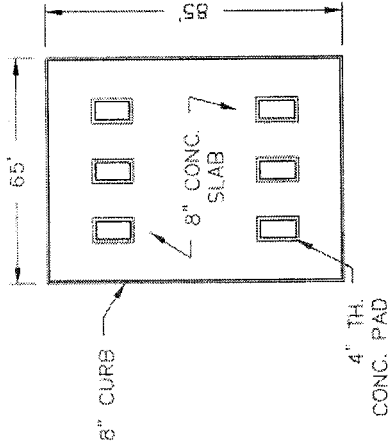
**TRUCK UNLOAD PAD PLAN & SECTIONS**  
8 OF 49

PUMP PAD GRADING  
 200 CY CUT 1' STRIPPING  
 167 CY CUT (NOT INCLUDING STRIPPING)  
 150 CY CONCRETE  
 137 CY GRANULAR FILL

UNLOAD RACK PUMP STATION #1  
 UNLOAD RACK PUMP STATION #2  
 MCC BLDG.



**A-A** UNLOAD RACK PUMP STATION #1 SECTION  
 Scale: 1" = 20'



**A1** UNLOAD RACK PUMP STATION #1 PLAN  
 Scale: 1" = 50'

GAVILON MIDSTREAM ENERGY, LLC

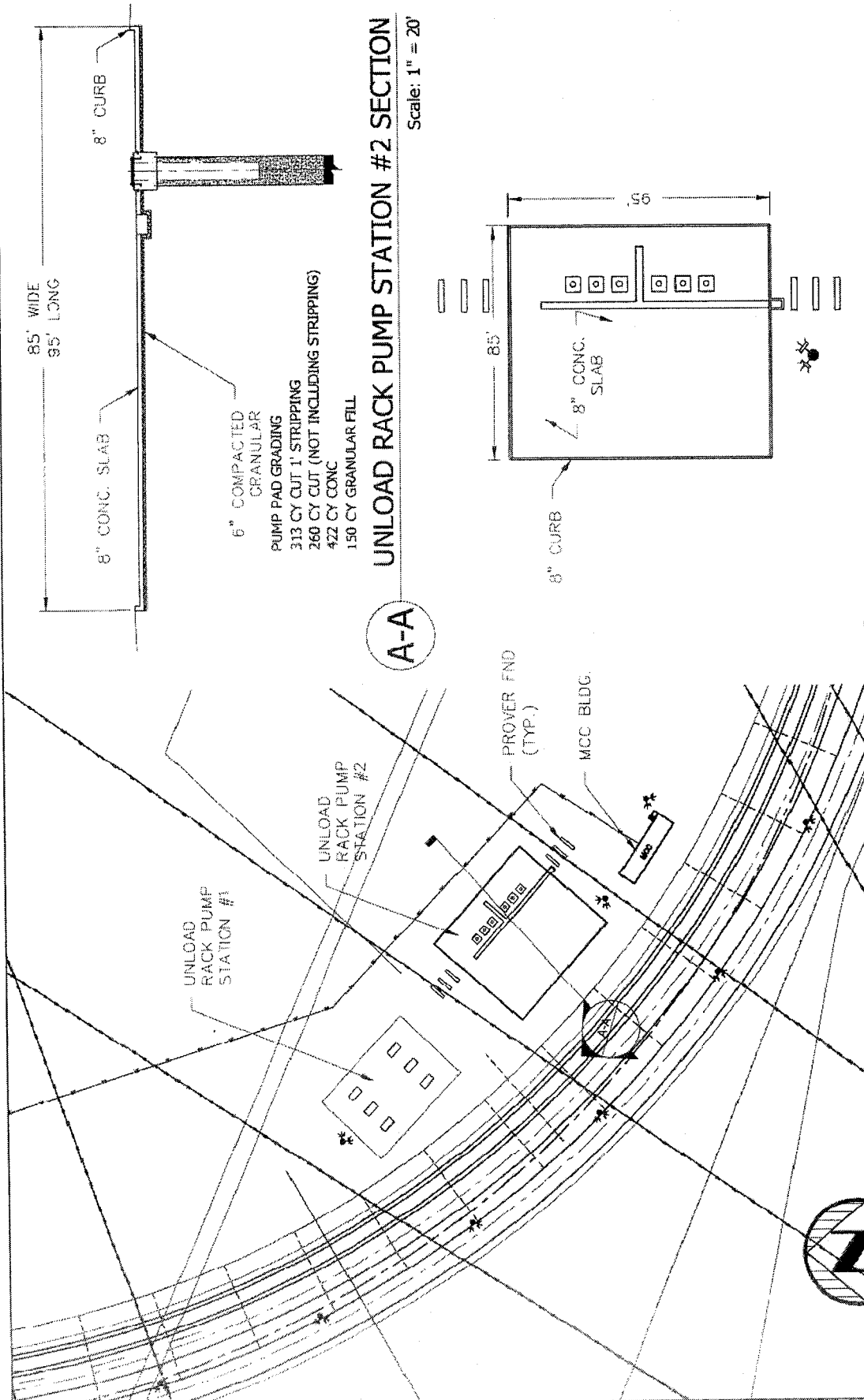
UNLOAD RACK PUMP PAD #1  
 PLAN & SECTIONS 9 OF 49  
 (SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

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**A-A**  
**UNLOAD RACK PUMP STATION #2 SECTION**  
 Scale: 1" = 20'

85' WIDE  
 95' LONG

8" CONC. SLAB

8" CURB

6" COMPACTED GRANULAR PUMP PAD GRADING

313 CY CUT 1' STRIPPING

260 CY CUT (NOT INCLUDING STRIPPING)

422 CY CONC

150 CY GRANULAR FILL

**A1**

83'

16'

8" CONC. SLAB

8" CURB

**A1**  
**UNLOAD RACK PUMP STATION #2 PLAN**  
 Scale: 1" = 50'

**GAVILON**

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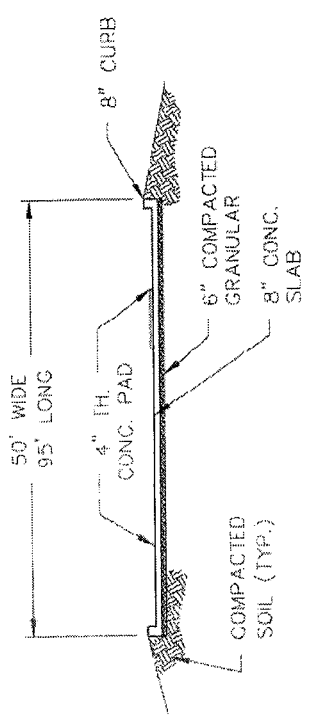
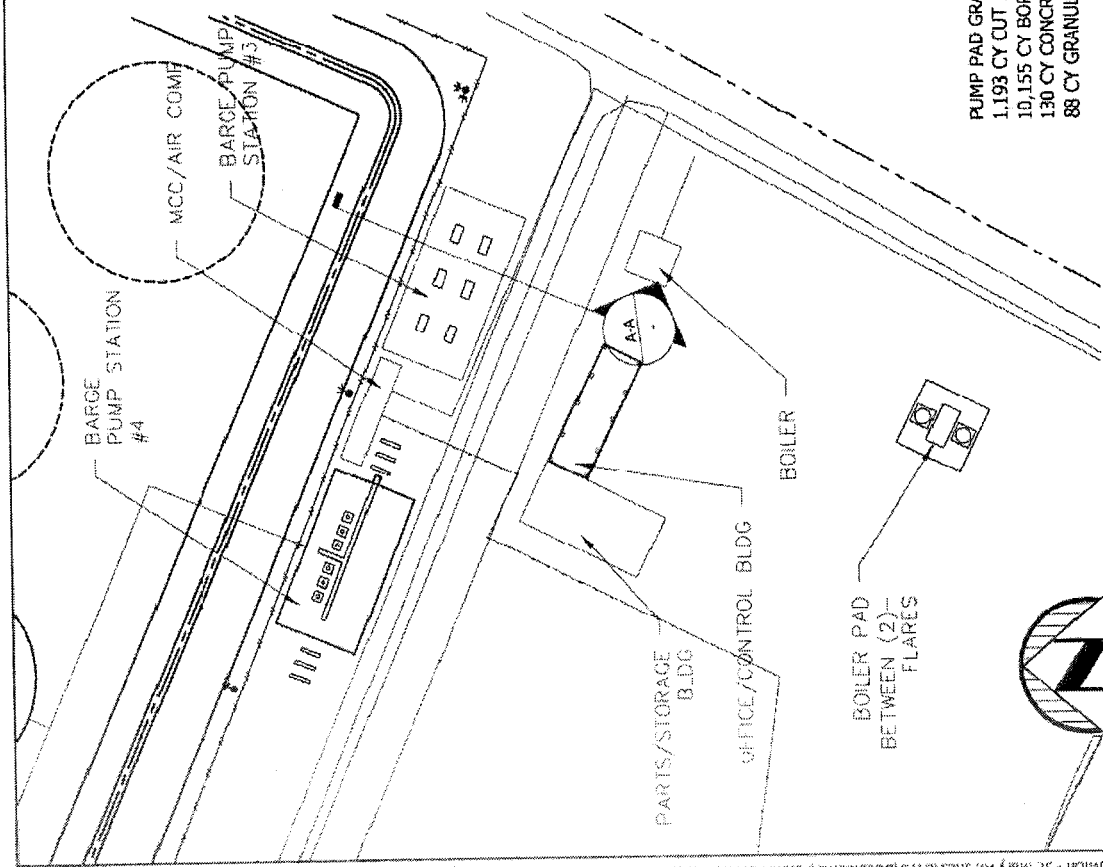
UNLOAD RACK PUMP PAD #2  
 PLAN & SECTIONS 10 OF 49

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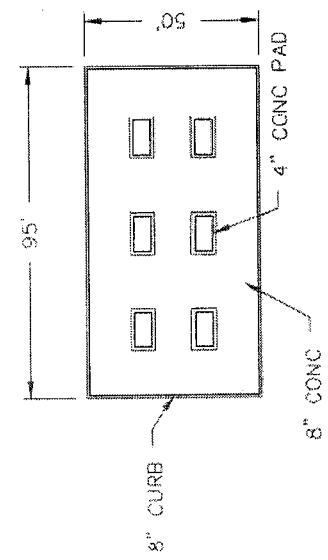
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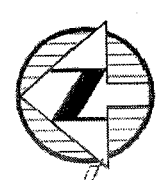


**A-A** BARGE AREA PUMP STATION #3 SECTION  
Scale: 1" = 20'



PUMP PAD GRADING  
 1.193 CY CUT 1' STRIPPING  
 10.155 CY BORROW REQUIRED (INCLUDES MCC AND PUMP PAD #4)  
 130 CY CONCRETE  
 88 CY GRANULAR FILL

**A1** BARGE AREA PUMP STATION #3 PLAN  
Scale: 1" = 50'



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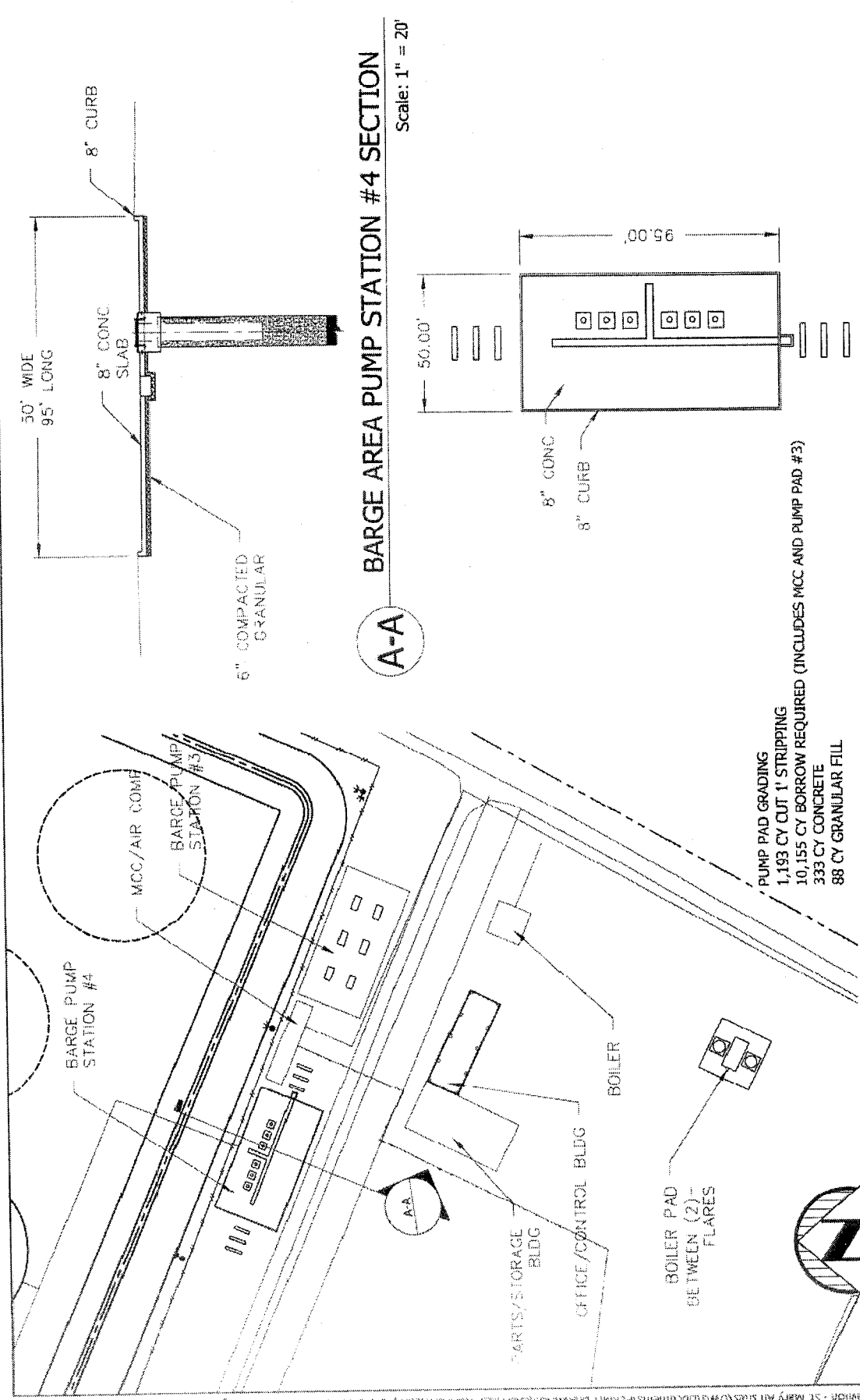
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 GAVILON MIDSTREAM ENERGY, LLC  
 (SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

**BARGE AREA PUMP PAD #3 PLAN & SECTIONS**  
 11 OF 49



**A-A** BARGE AREA PUMP STATION #4 SECTION  
Scale: 1" = 20'

**A1** BARGE AREA PUMP STATION #4 PLAN  
Scale: 1" = 50'

PUMP PAD GRADING  
1,193 CY CUT 1' STRIPPING  
10,155 CY BORROW REQUIRED (INCLUDES MCC AND PUMP PAD #3)  
333 CY CONCRETE  
88 CY GRANULAR FILL

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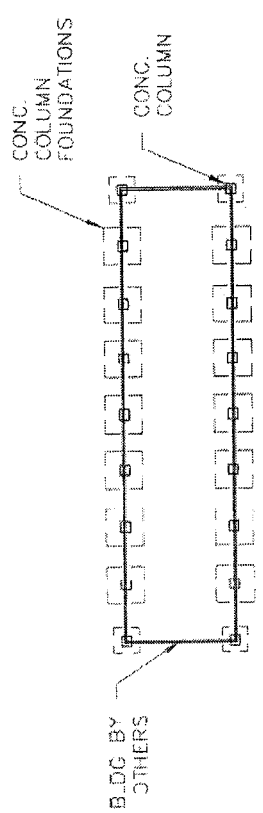
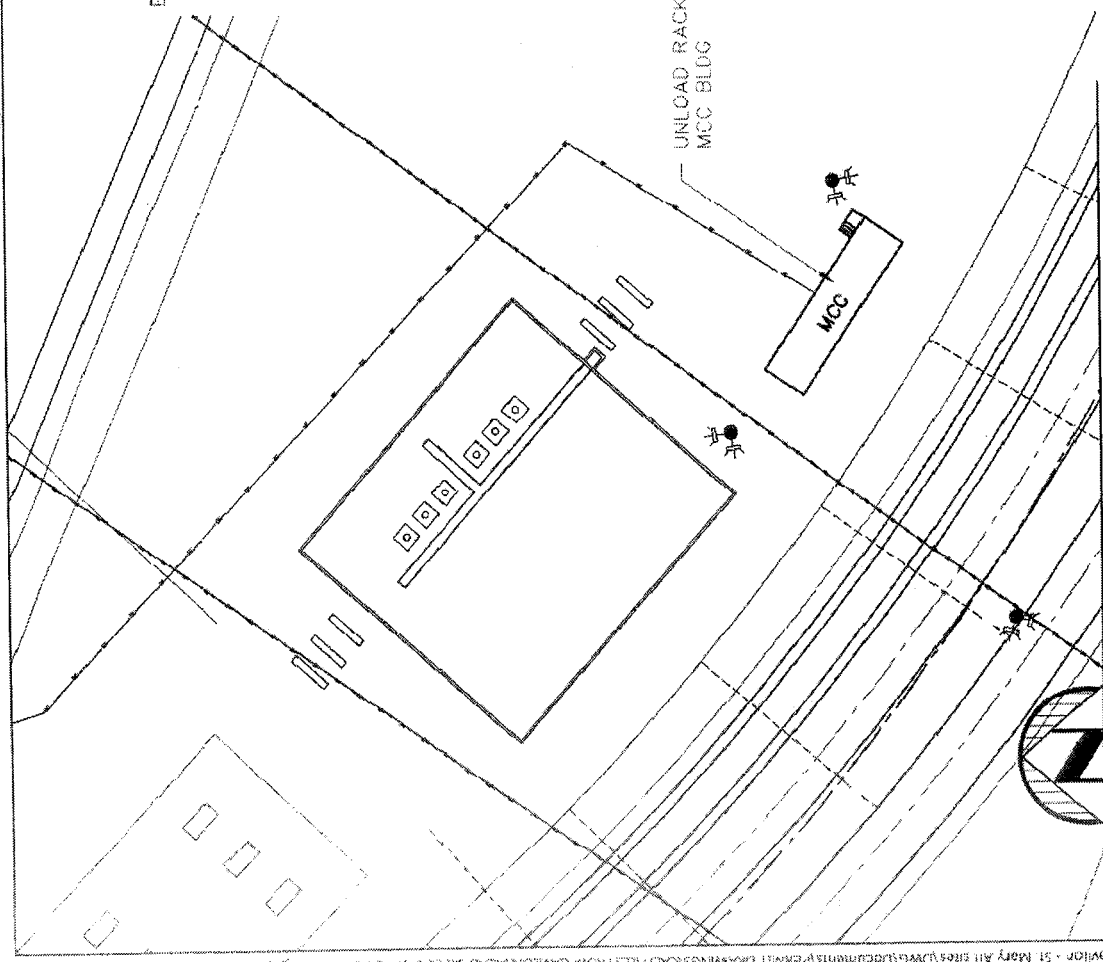
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**BARGE AREA PUMP PAD #4 PLAN & SECTIONS**

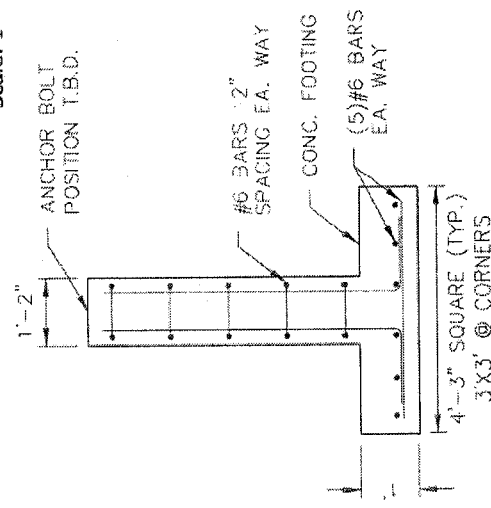




**UNLOAD RACK MCC BLDG FND. PLAN**

Scale: 1" = 20'

**A-A**



**FOOTING DETAIL**

Scale: 1" = 3'

**A1**

UNLOAD RACK MCC BLDG GRADING  
 206 CY CUT 1' STRIPPING  
 26,821 CY BORROW REQUIRED  
 110 CY CONCRETE

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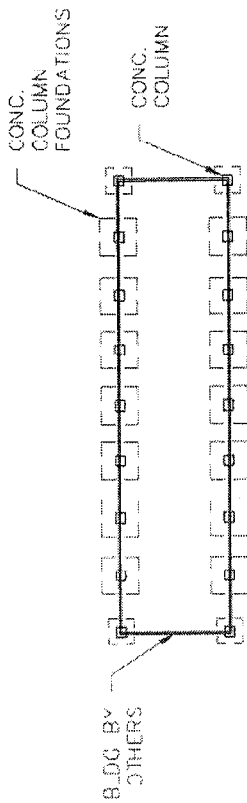
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**GAVILON**

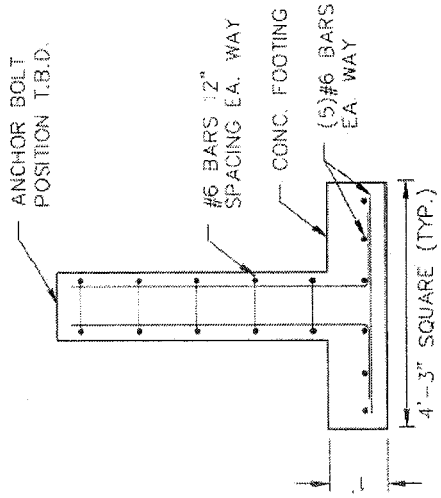
UNLOAD RACK MCC BLDG  
 PAD PLANS & SECTIONS  
 13 OF 49



**UNLOAD RACK MCC BLDG FOUNDATION**

Scale: 1" = 20'

**A-A**

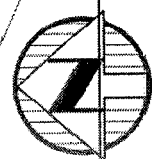
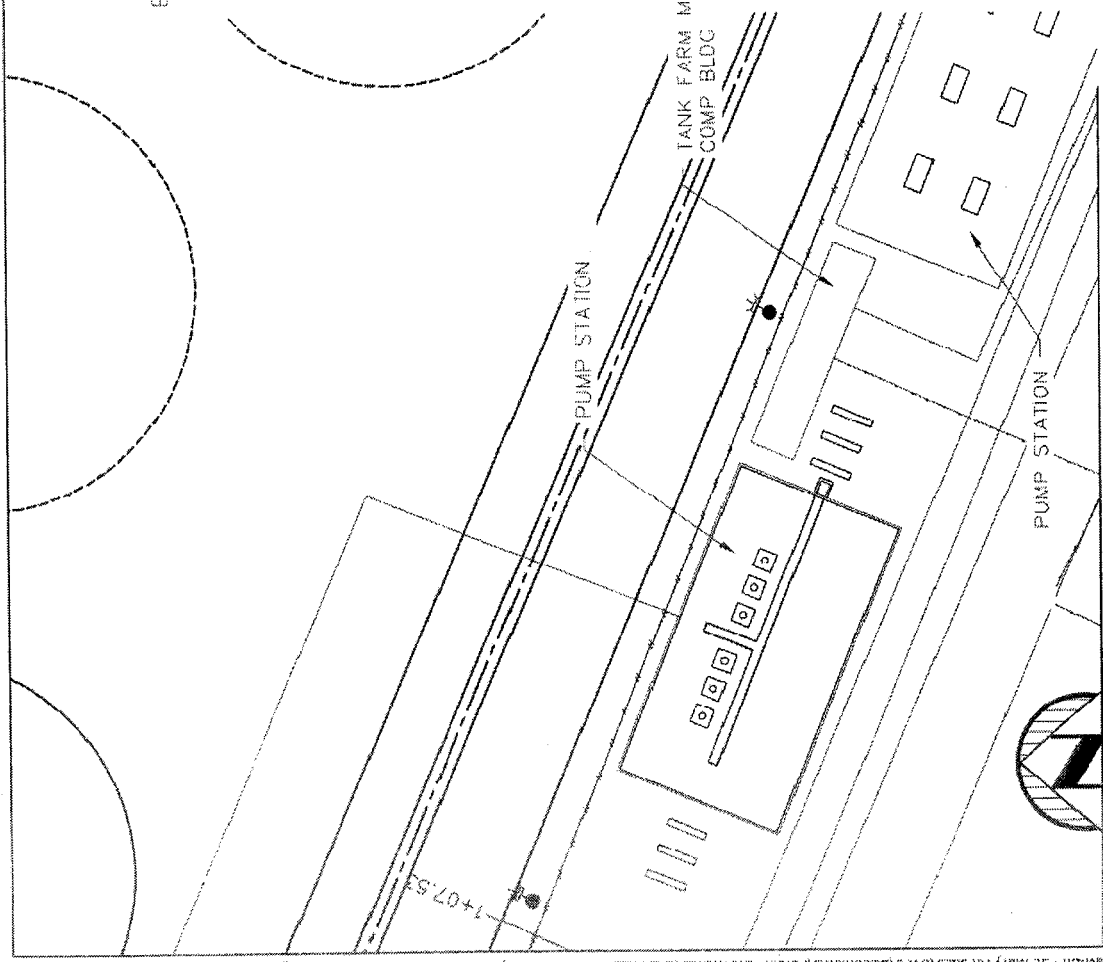


**FOOTING DETAIL**

Scale: 1" = 3'

**A1**

MCC/ AIR COMPRESSOR BLDG GRADING  
 206 CY CUT 1' STRIPPING  
 10,155 CY BORROW REQUIRED (INCLUDES PUMP PADS #3 AND #4)  
 1,10 CY CONCRETE



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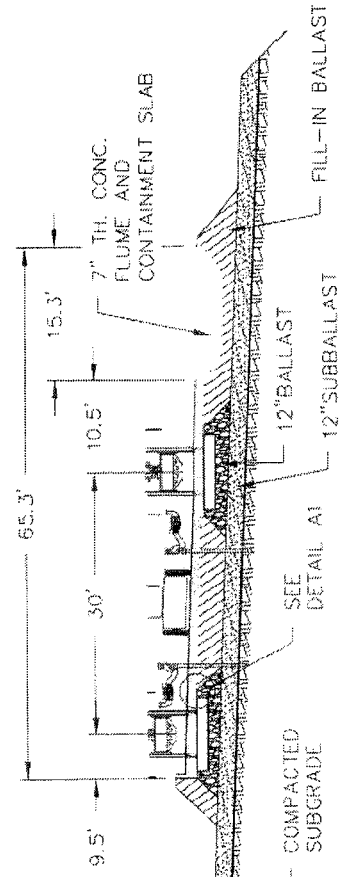
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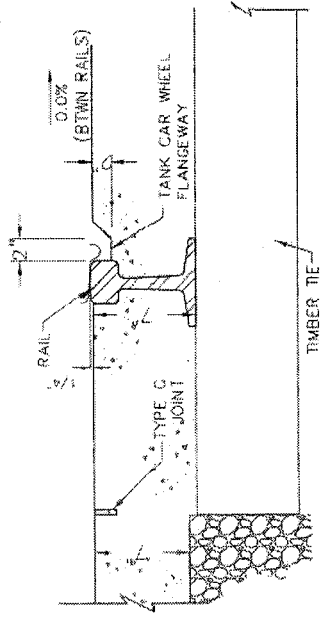
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**GAVILON**

MCC/AIR COMP BLDG PAD  
 PLANS & SECTIONS  
 14 OF 49



**A-A** UNLOAD RACK SLAB DETAIL  
N.T.S.

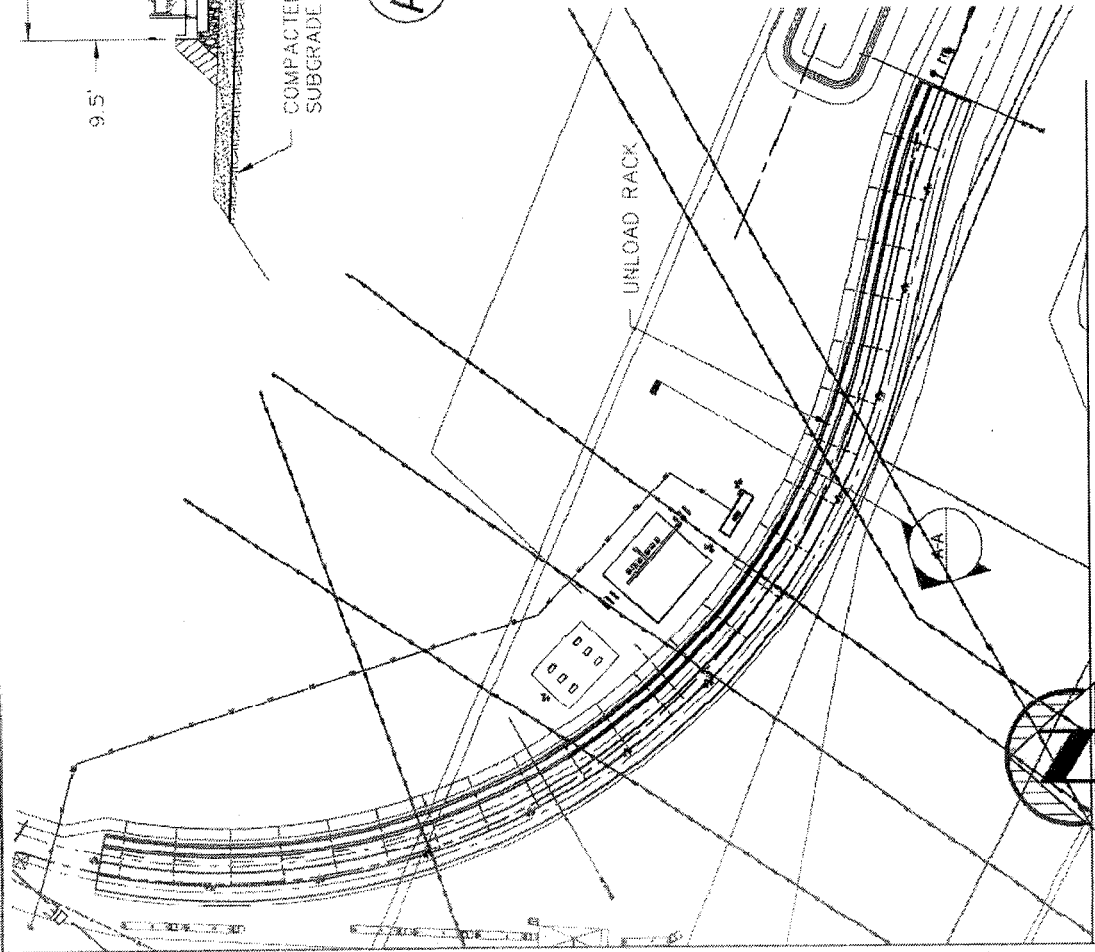


**A1** UNLOAD RACK SLAB DETAIL  
N.T.S.

UNLOAD PAD  
2,294 CY CONCRETE  
3,462 CY FILL-IN BALLAST

**GAVILON**  
UNLOAD PAD  
PLANS & SECTIONS  
15 OF 49

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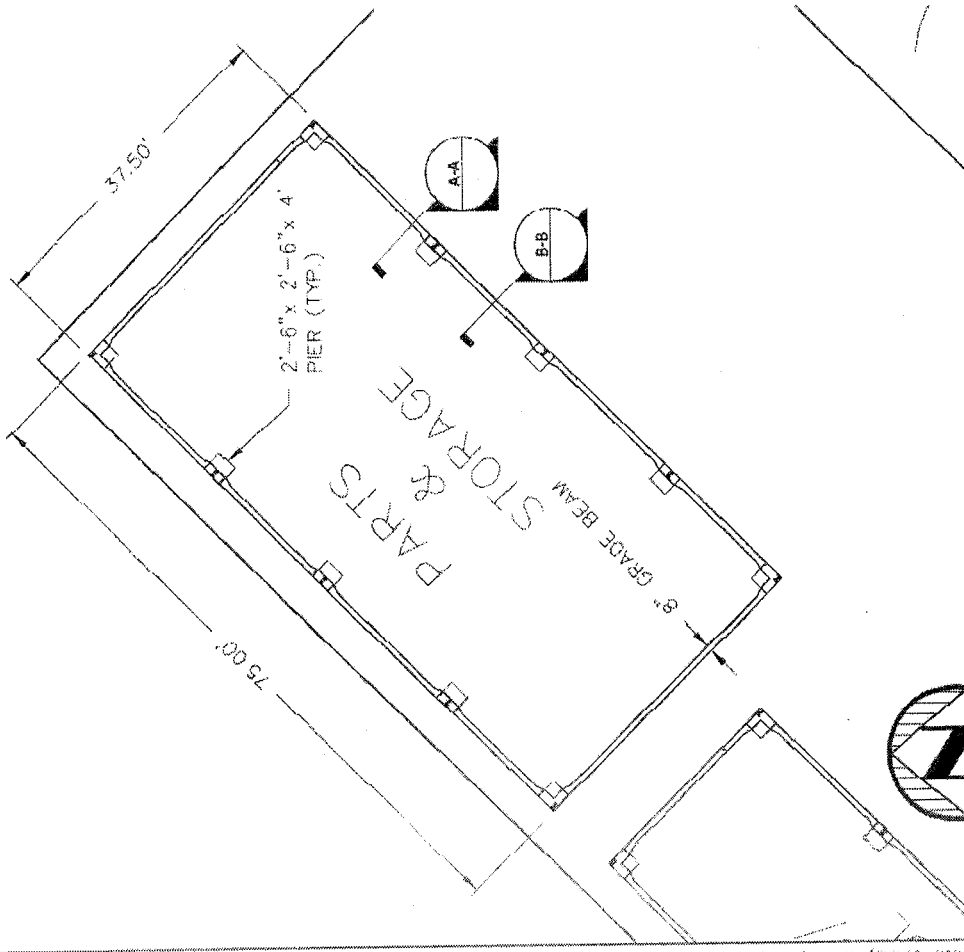
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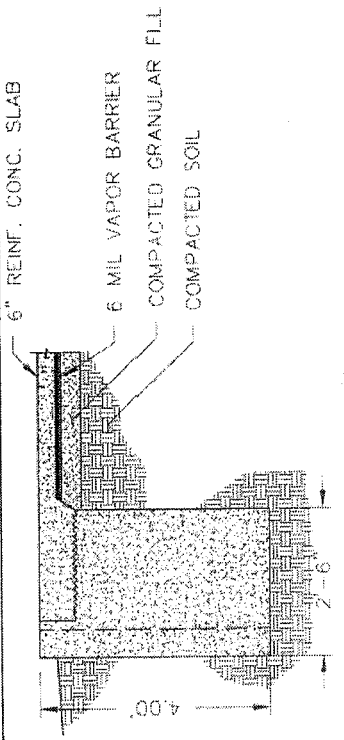


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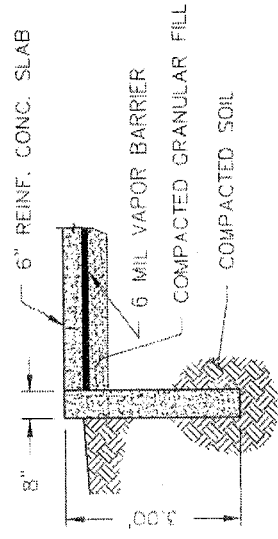
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**A-A**  
**TYP. PIER SECTION**  
 Scale: 1" = 3'



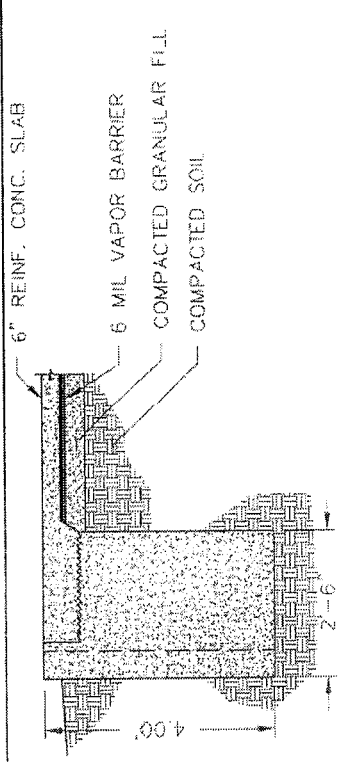
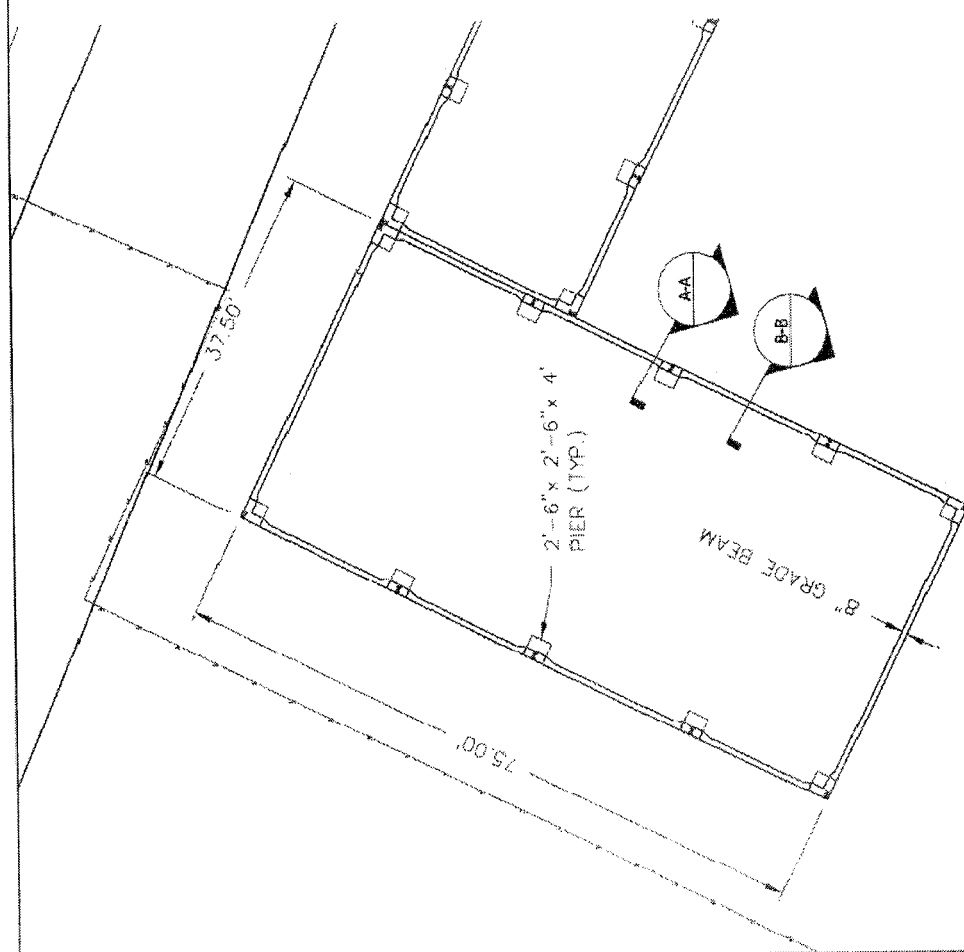
**B-B**  
**GRADE BEAM SECTION**  
 Scale: 1" = 3'

- PARTS & STORAGE PAD GRADING
- 62 CY CONCRETE
- 65 CY COMPACTED GRANULAR FILL
- 105 CY CUT 1' STRIPPING
- 1,850 CY BORROW NEEDED FOR BLDG. & HALF O- ROCK
- PARKING PAD (ON SITE)

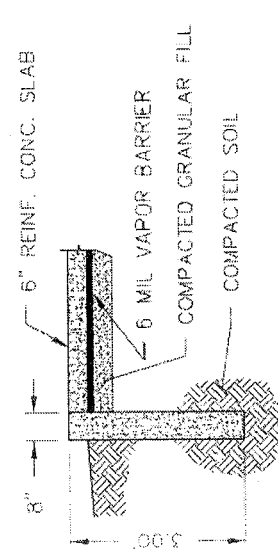
NOTE:  
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 SHALL BE PROPERLY PERMITTED.

**GAVILON**  
 GAVILON MIDSTREAM  
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 (SITE LOCATION) INTERSECTION CABOT RD. &  
 COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA

UNLOAD RACK PARTS &  
 STORAGE PAD PLANS &  
 SECTIONS 16 OF 49



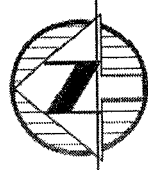
**A-A**  
TYP. PIER SECTION  
Scale: 1" = 3'



**B-B**  
GRADE BEAM SECTION  
Scale: 1" = 3'

- PARTS & STORAGE PAD GRADING
- 62 CY CONCRETE
- 65 CY COMPACTED GRANULAR FILL
- 393 CY CUT 1' STRIPPING
- 2,100 CY BORROW NEEDED FOR BLDG. (ON SITE)

NOTE:  
ALL OFFSITE BORROW MATERIAL  
SHALL BE PROPERLY PERMITTED.



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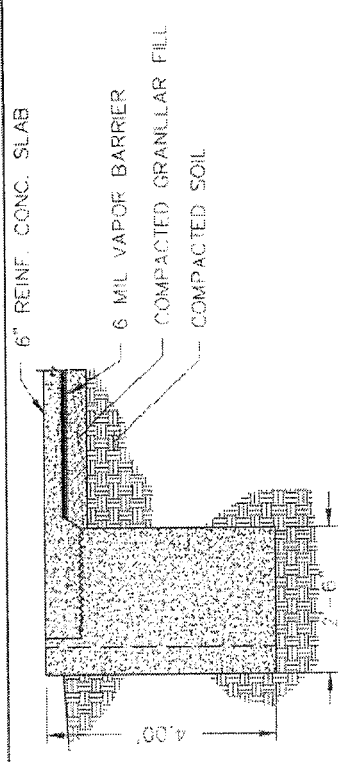
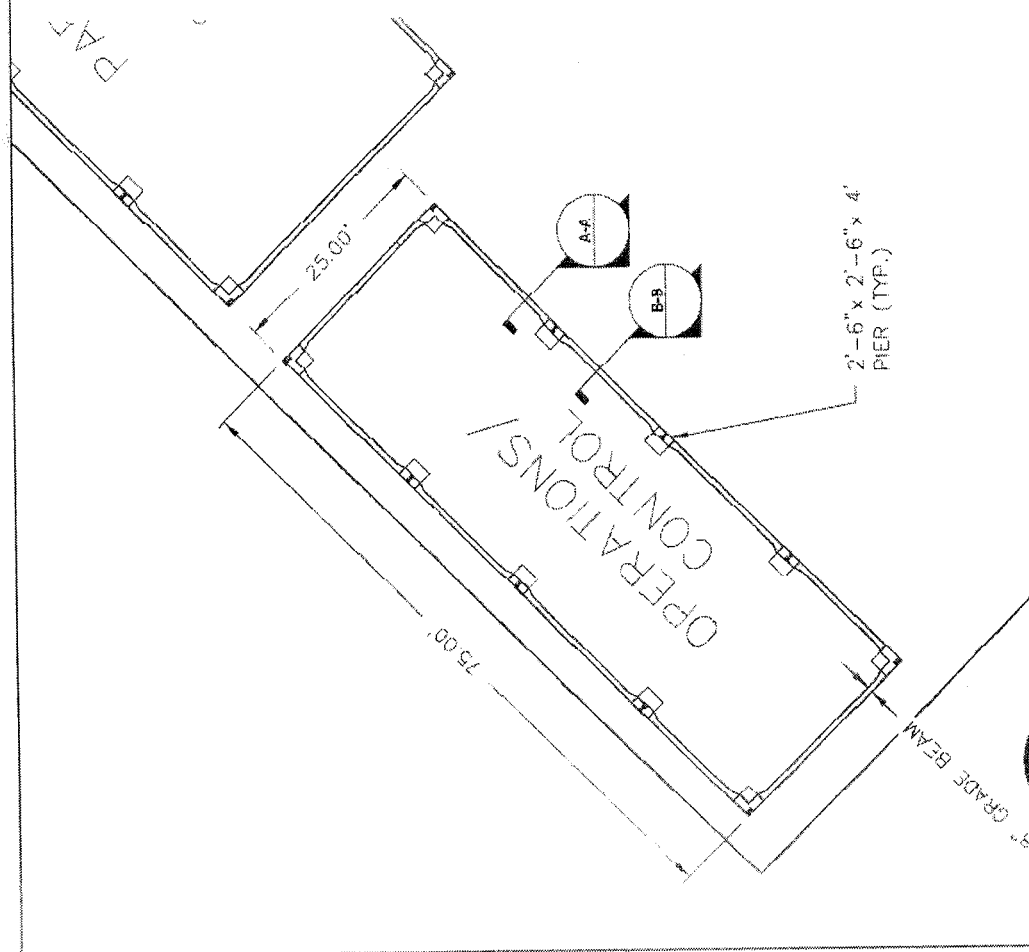
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**GAVILON**  
TANK FARM PARTS &  
STORAGE PAD PLANS &  
SECTIONS 17 OF 49

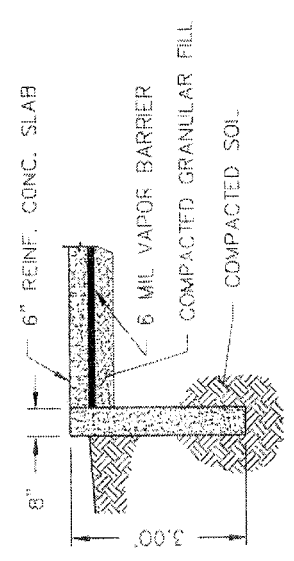
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COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.



**TYP. PIER SECTION**

Scale: 1" = 3'

**A-A**



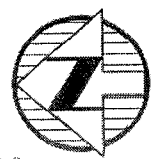
**GRADE BEAM SECTION**

Scale: 1" = 3'

**B-B**

- OPERATIONS PAD GRADING
- 46 CY CONCRETE
- 42 CY COMPACTED GRANULAR FILL
- 69 CY CUT 1' STRIPPING
- 1,850 CY BORROW NEEDED FOR BLDG. & HALF OF ROCK
- PARKING PAD (ON SITE)

NOTE:  
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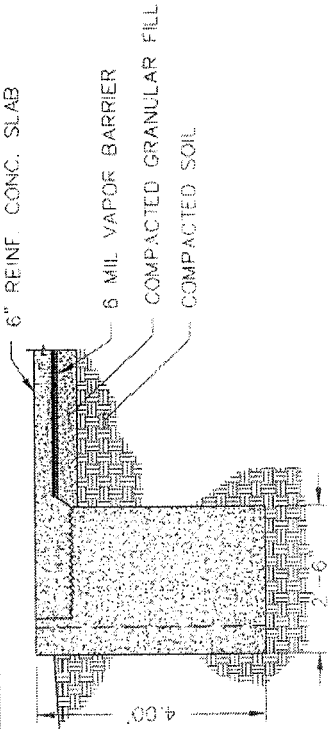
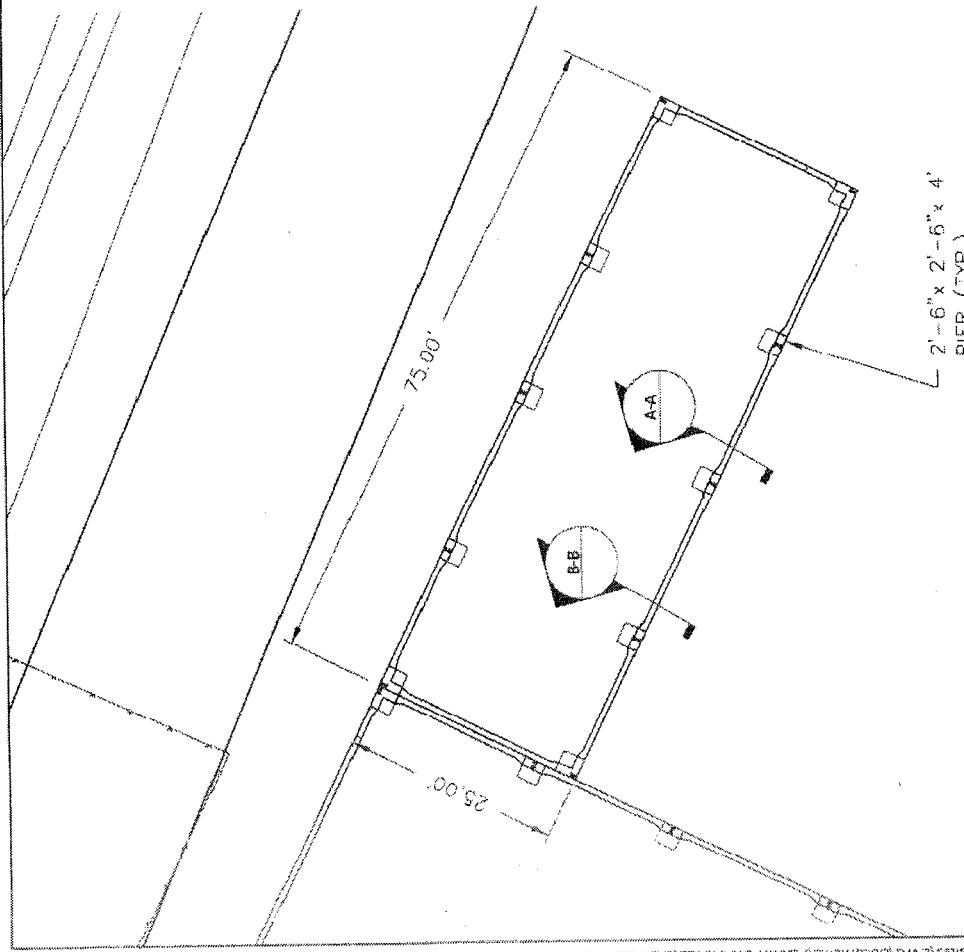
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Commercial & Industrial Construction  
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(308)548-2264 FAX (308)548-2194



**GAVILON MIDSTREAM ENERGY, LLC**  
(SITE LOCATION) INTERSECTION CABOT RD. &  
COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.

**UNLOAD RACK OPERATIONS BUILDING PAD PLANS & SECTIONS**  
18 OF 49

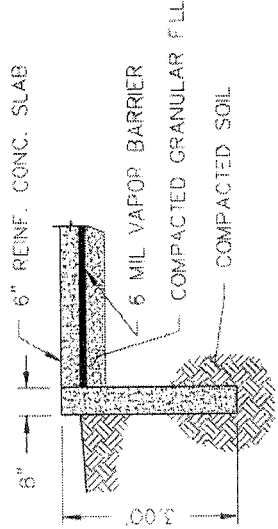




**TYP. PIER SECTION**

Scale: 1" = 3'

**A-A**



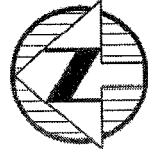
**GRADE BEAM SECTION**

Scale: 1" = 3'

**B-B**

- OPERATIONS PAD GRADING
- 46 CY CONCRETE
- 42 CY COMPACTED GRANULAR FILL
- 393 CY CUT 1' STRIPPING
- 2,100 CY BORROW NEEDED FOR BLDG. (ON SITE)

NOTE:  
ALL OFFSITE BORROW MATERIAL  
SHALL BE PROPERLY PERMITTED.



QUANTITIES SHOWN ARE ESTIMATED FOR THE C.O.E. PERMIT APPLICATION ONLY AND ARE SUBJECT TO CHANGE DURING FINAL DESIGN.

**FOR PERMIT USE ONLY**

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COMMERCIAL & INDUSTRIAL CONSTRUCTION  
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(308)548-2284 FAX (308)548-2164

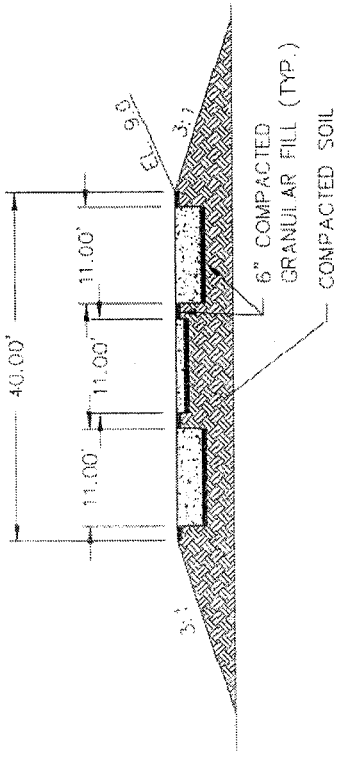
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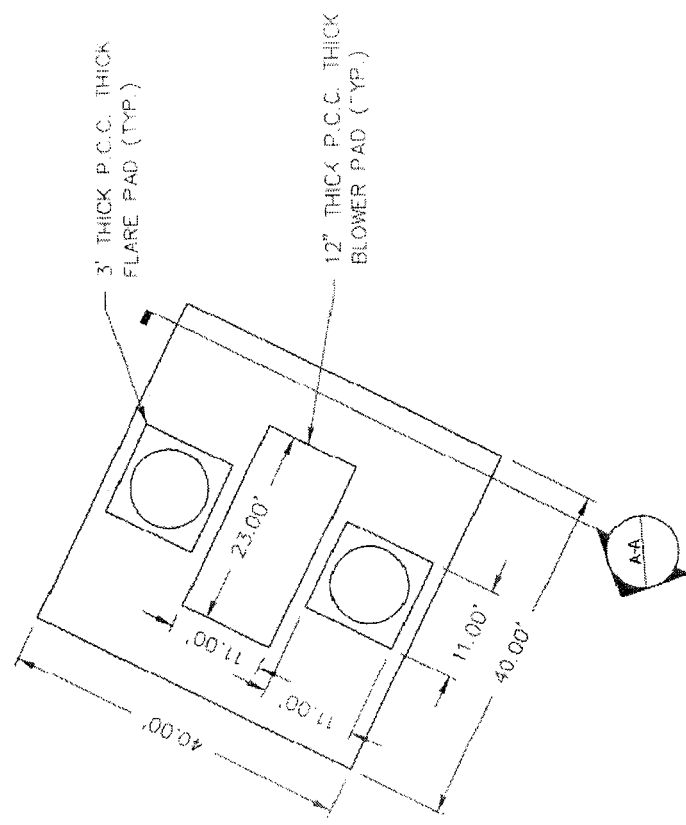
(SITE LOCATION) INTERSECTION CABOT RD. &  
COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.



**TANK FARM OPERATIONS BUILDING PAD PLANS & SECTIONS**



**TYP. PEIR SECTION**  
 Scale: 1" = 20'



- FLARE PAD GRADING  
 (2)-FLARE PADS 13.44 CY CONCRETE / EACH  
 (1) BLOWER PAD 10 CY CONCRETE  
 30 CY COMPACTED GRANULAR FILL  
 285 CY CUT 1' STRIPPING  
 1,700 CY BORROW NEEDED (ON SITE)

NOTE:  
 ALL OFFSITE BORROW MATERIAL  
 SHALL BE PROPERLY PERMITTED.



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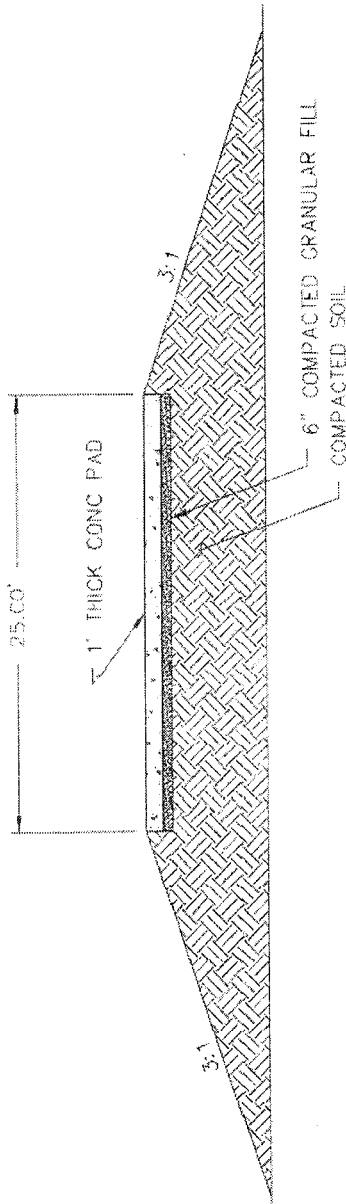
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**GAVILON**  
 ENERGY, LLC  
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 COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

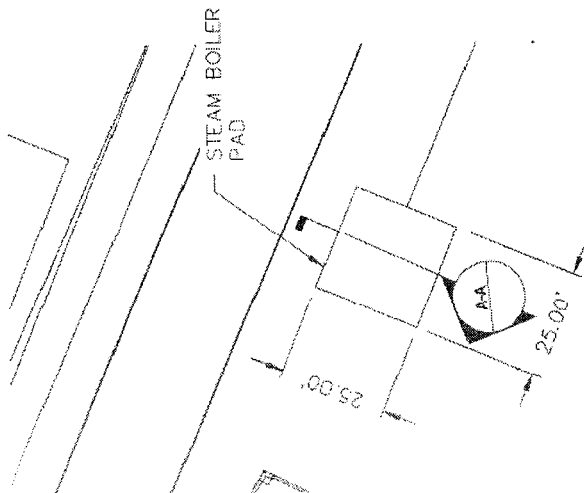
**FLARE PAD & BLOWER PAD  
 PLAN & SECTION**

20 OF 49



**STEAM BOILER PAD SECTION**

Scale: 1" = 10'



STEAM BOILER PAD GRADING  
 165 CY CUT 1' STRIPPING  
 818 CY BORROW NEEDED (ON SITE)  
 23 CY CONCRETE  
 12 CY GRANULAR FILL



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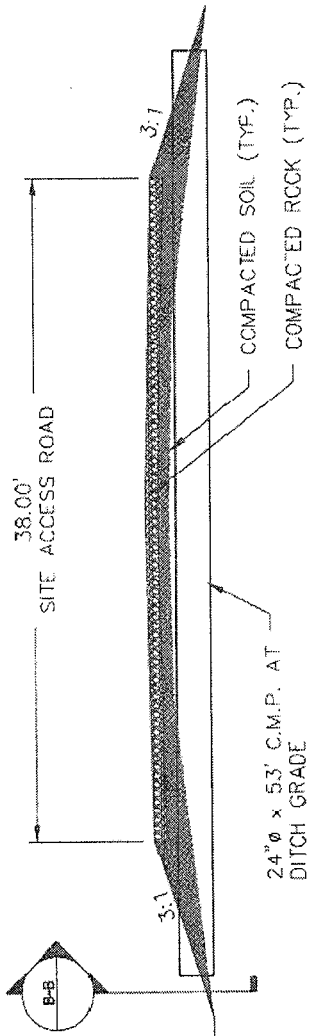
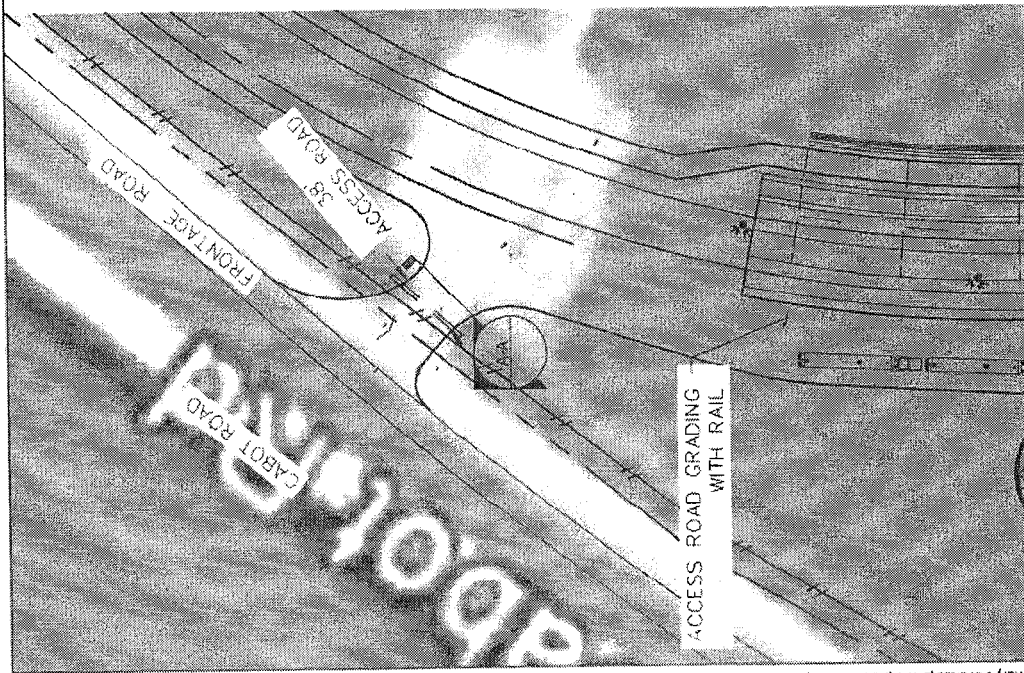
**STROBEL STAROSTKA**  
 CONSULTING ENGINEERS  
 P.O. BOX 187, CLARKS, NE 68628  
 (308)548-2264 FAX (308)548-2164



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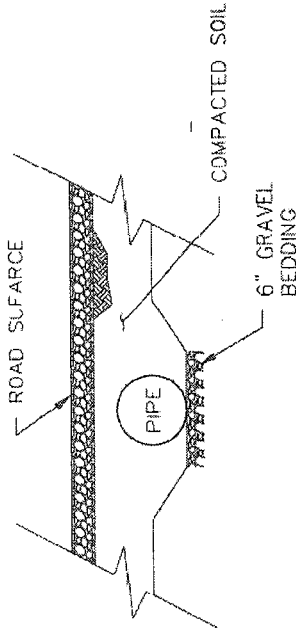
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 FRANKLIN, ST. MARY PARISH, LA.

**STEAM BOILER PAD PLAN & SECTION**



**A-A** ACCESS ROAD SECTION

Scale: 1" = 10'



**B-B** TYP END SECTION

Scale: 1" = 5'

- SITE ACCESS ROAD GRADING**
- 117 CY COMPACTED ROCK
  - 1250 CY BORROW NEEDED (ON SITE)
  - 16.0 CY GRAVEL BEDDING

**NOTE:**  
ALL OFFSITE BORROW MATERIAL SHALL BE PROPERLY PERMITTED.

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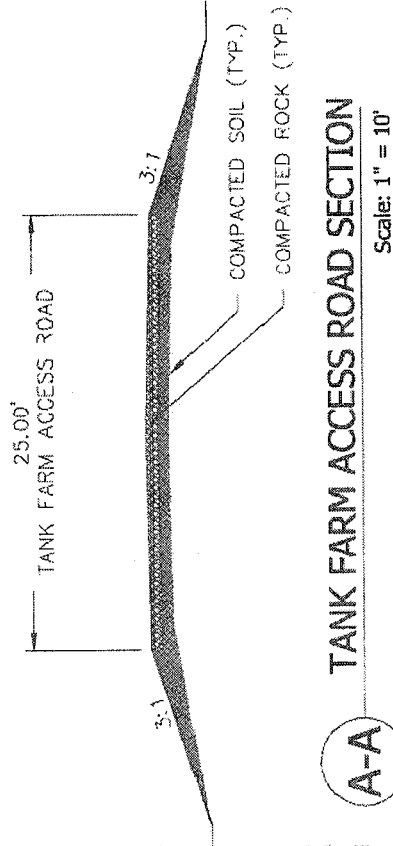
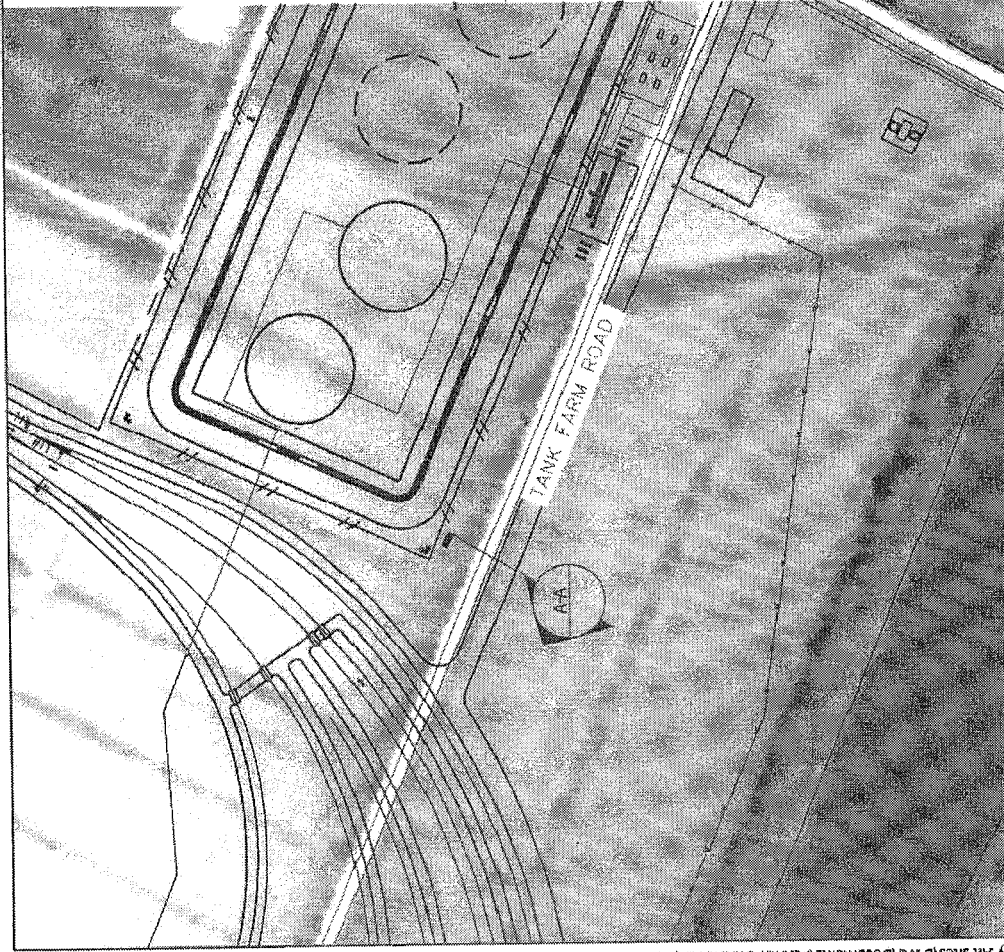
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 (308)548-2264 FAX (308)548-2184

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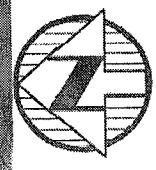
**GAVILON**

ACCESS ROAD PLAN & SECTION



**TANK FARM ACCESS ROAD SECTION**  
Scale: 1" = 10'

SITE ACCESS ROAD GRADING  
840 CY STRIPPING  
1,433 CY COMPACTED ROCK  
13,472 CY BORROW NEEDED (ON SITE)



**NOTE:**  
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SHALL BE PROPERLY PERMITTED.

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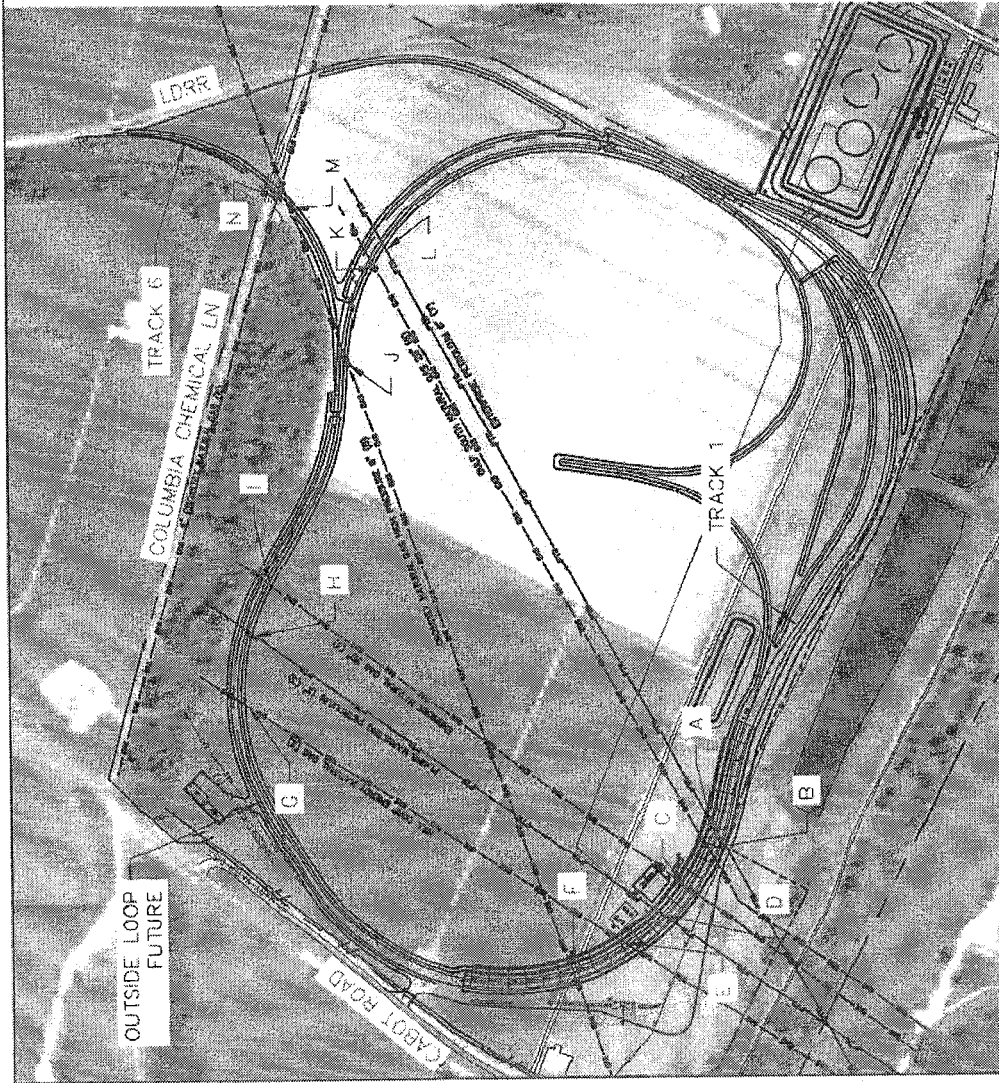
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(505)548-2264 FAX (505)548-2164

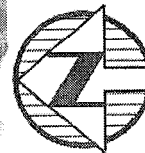
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FRANKLIN, ST. MARY PARISH, LA.

**GAVILON**  
TANK FARM ACCESS ROAD PLAN & SECTION  
23 OF 49



NOTE:  
SEE SHEETS 26 & 27 FOR TYPES

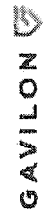
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 FRANKLIN, ST. MARY PARISH, LA.

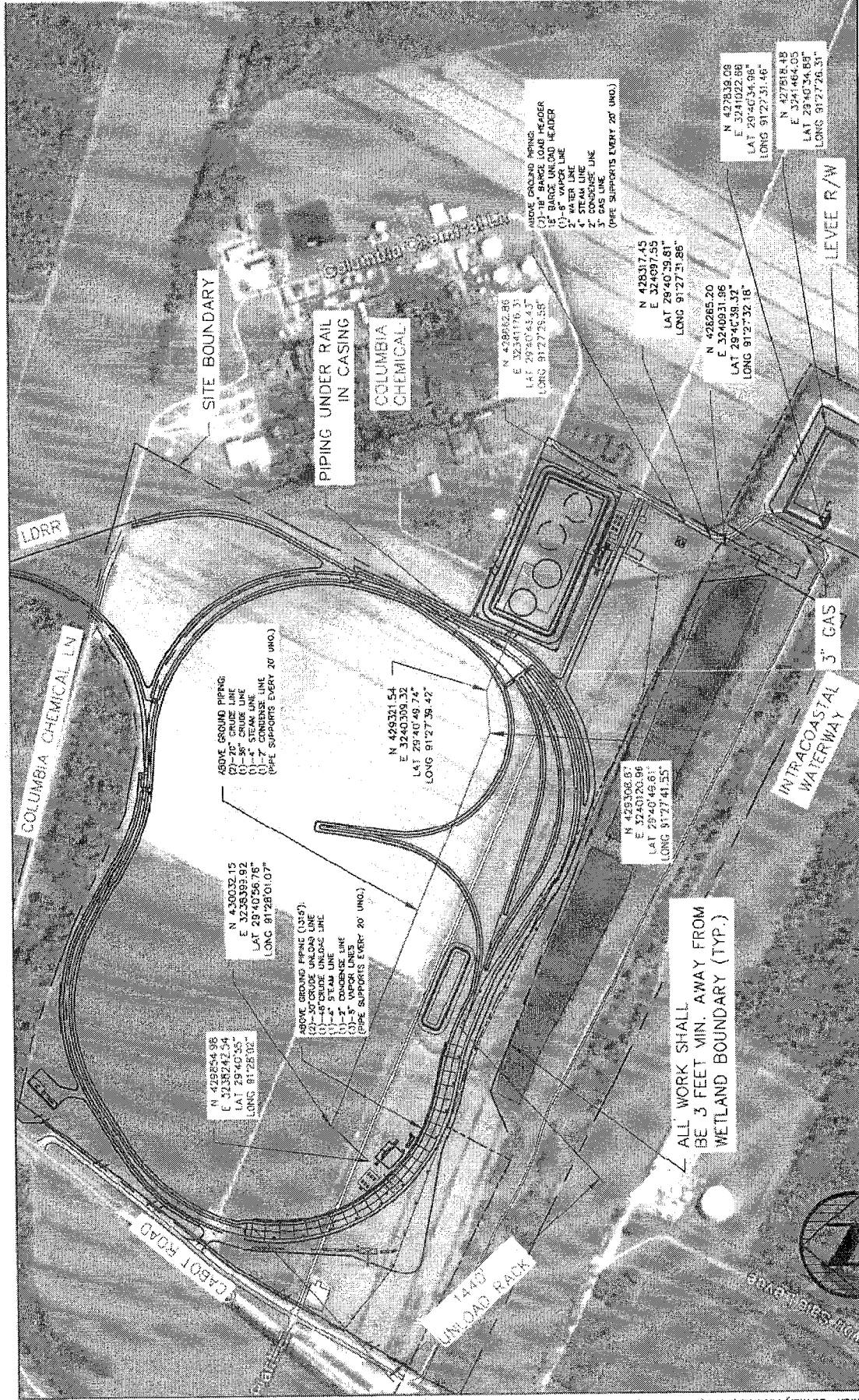
**EXISTING PIPE LINE CROSSINGS PLAN**











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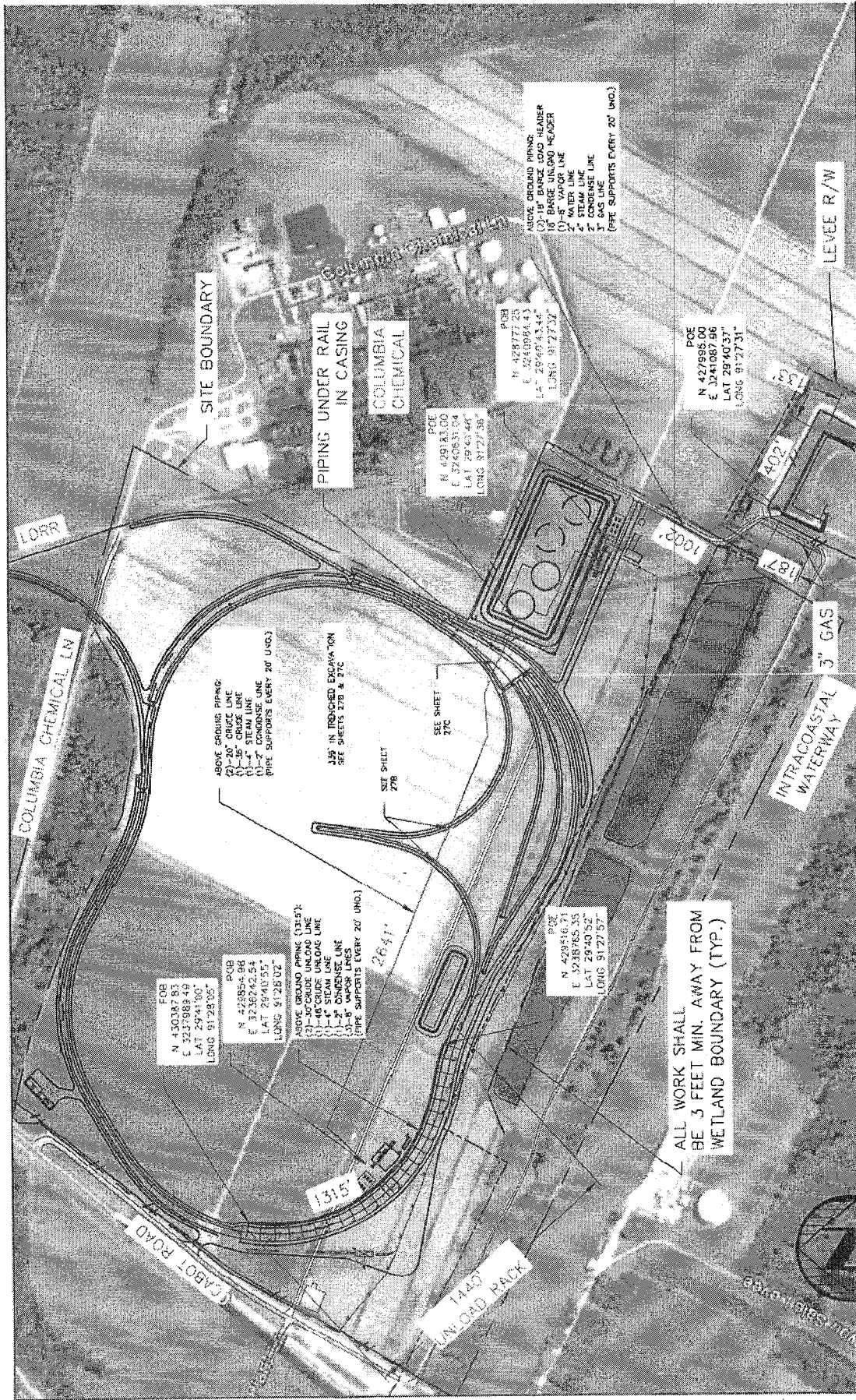
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 C. O. M. S. T. C. O. N. S. T. R. U. C. T. I. O. N. L. L. C.  
 P.O. BOX 1457, CLARKS, NE, 68628  
 (308)545-2264 FAX (308)545-2184



**GAVILON ENERGY, LLC**  
**NEW PIPING LAYOUT**

(SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

\\fd-poly\civ\3d Projects\Strobel-Gavilon - St. Mary Alt sites\DWG\Documents\PERMIT DRAWINGS\CAD FILES FROM GAVI\MA\CAD-sheets 15-10-REV SHEET 27.dwg 3/20/2013 2:45:20 PM, RJK



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 POB = POINT OF BEGINNING  
 POE = POINT OF END  
 GAVILON MIDSTREAM ENERGY, LLC  
 (SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

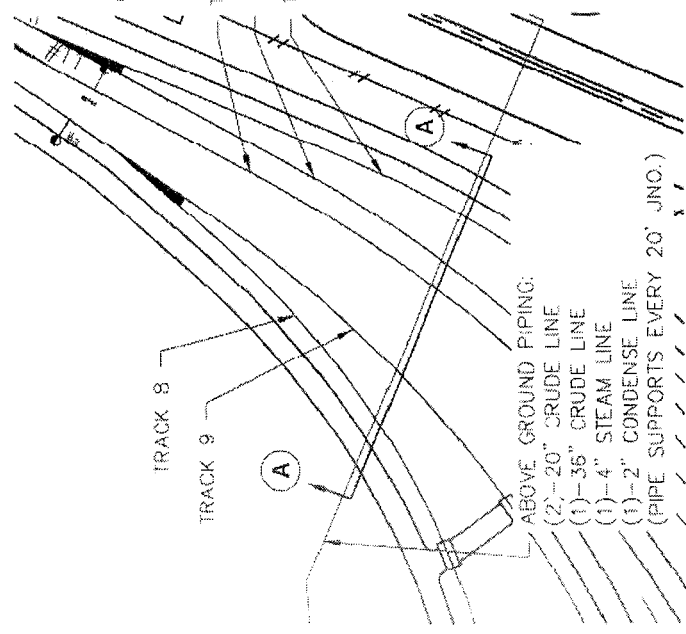
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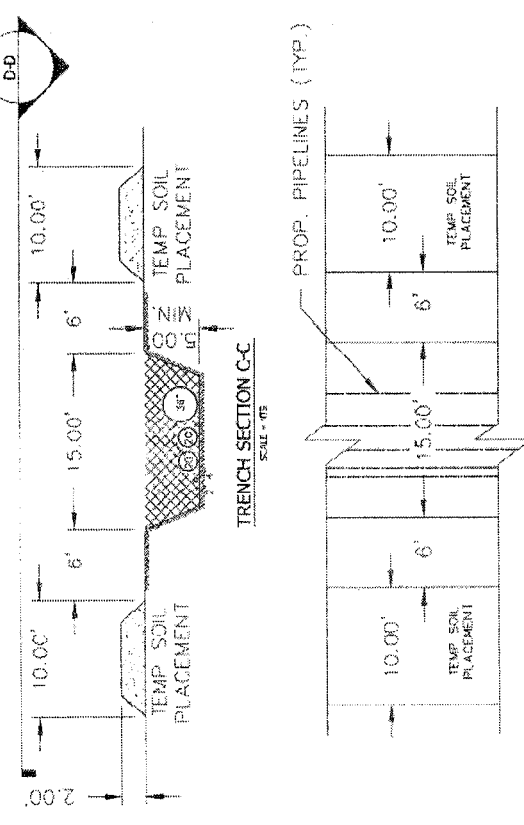
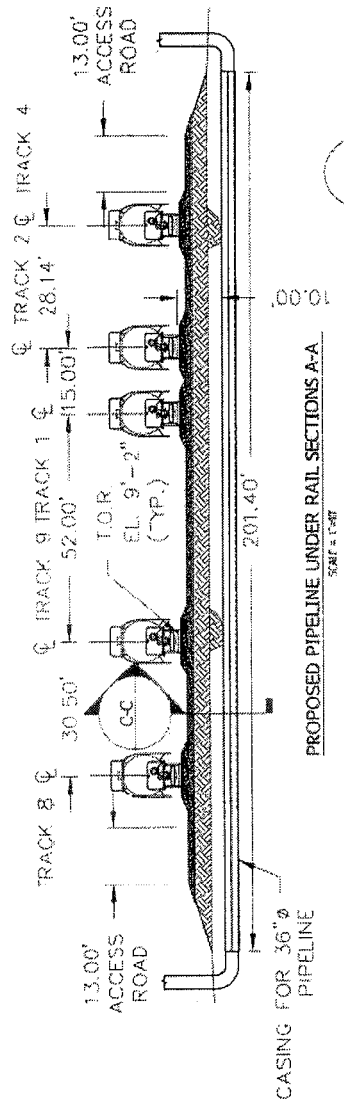
GAVILON  
 NEW PIPE RUNS  
 27A OF 49



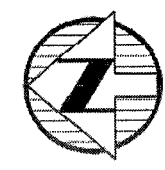




ABOVE GROUND PIPING:  
 (2) - 20" CRUDE LINE  
 (1) - 36" CRUDE LINE  
 (1) - 4" STEAM LINE  
 (1) - 2" CONDENSE LINE  
 (PIPE SUPPORTS EVERY 20' JNO.)



TRENCH PLAN D-D  
SCALE = 1"=40'



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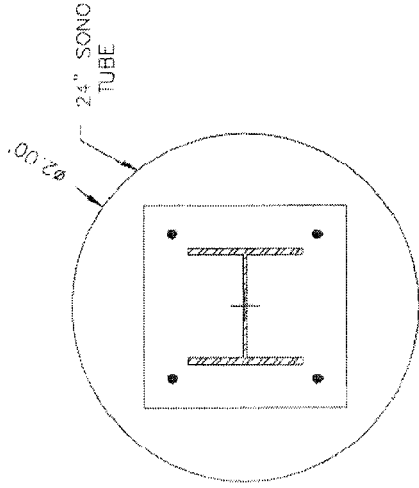
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EXCAVATION \$61 C.Y.

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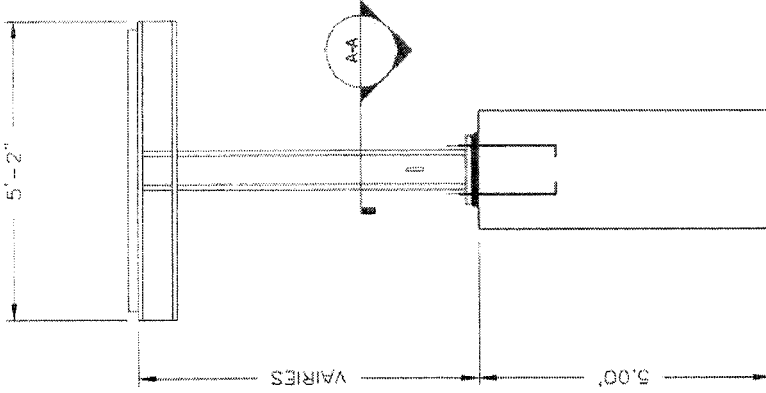
(SITE LOCATION) INTERSECTION CABOT RD. & PIPELINE UNDER RAIL TRENCH  
 PLAN & SECTION  
 FRANKLIN, ST. MARY PARISH, LA.  
 27C OF 49



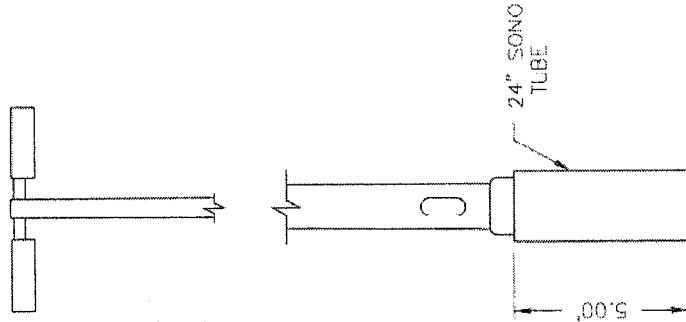


SECTION A-A  
SCALE: 1"=1'

NOTE: PIPE SUPPORTS EVERY 20' U.N.O.



TYP. PIPE SUPPORT  
SCALE: 1"=1'



TYP. LIGHT SUPPORT  
SCALE: 1"=1'

EXCAVATION OF LIGHT POLES AND PIPE  
SUPPORTS 350 CY OF EXCAVATIONS

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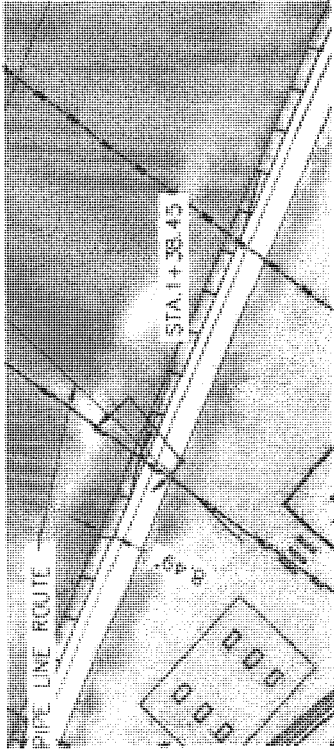
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FRANKLIN, ST. MARY PARISH, LA.

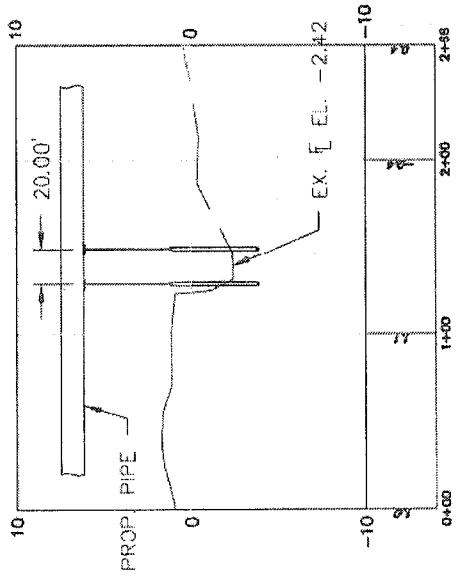
**GAVILON**  
PIPE SUPPORT/  
LIGHT SUPPORT

PROPOSED PIPE LINE ROUTE



NOTE:  
ALL WORK SHALL  
BE 3 FEET MIN. AWAY FROM  
WETLAND BOUNDARY (TYP.)

PIPE DITCH CROSSING PLAN  
SCALE = 1"=100'



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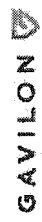
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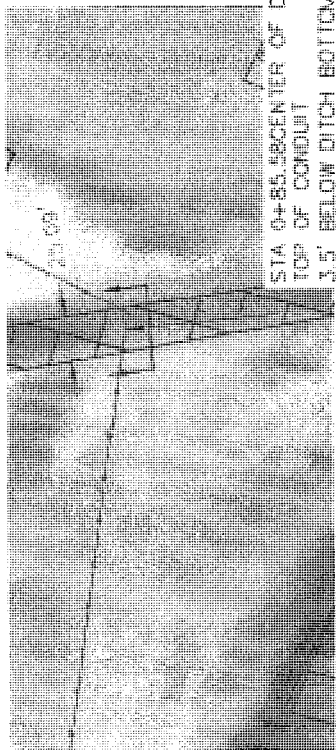
PIPE DITCH CROSSING PROFILE  
SCALE = 1"=100' HORIZ. 1"=10' VERT.

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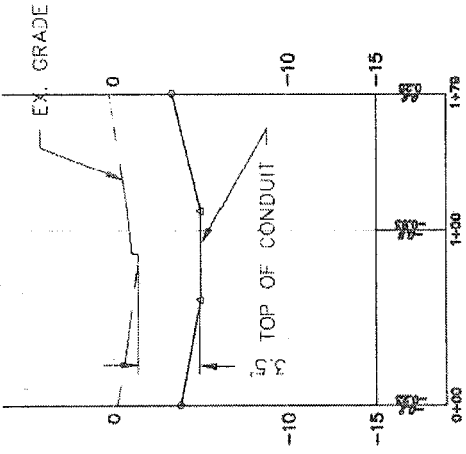
**PIPE SUPPORT DITCH CROSSING 1**

NOTE:  
ALL WORK SHALL  
BE 3 FEET MIN. AWAY FROM  
WETLAND BOUNDARY (TYP)



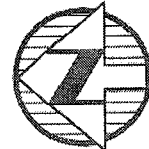
STA 0+55.58 CENTER OF DITCH  
TOP OF CONDUIT  
3.5' BELOW DITCH BOTTOM

UNDERGROUND ELECTRIC CONDUIT PLAN  
SCALE = 1"=30'



UNDERGROUND ELECTRIC CONDUIT PROFILE  
SCALE = 1"=150' HORZ. 1"=10' VERT.

2



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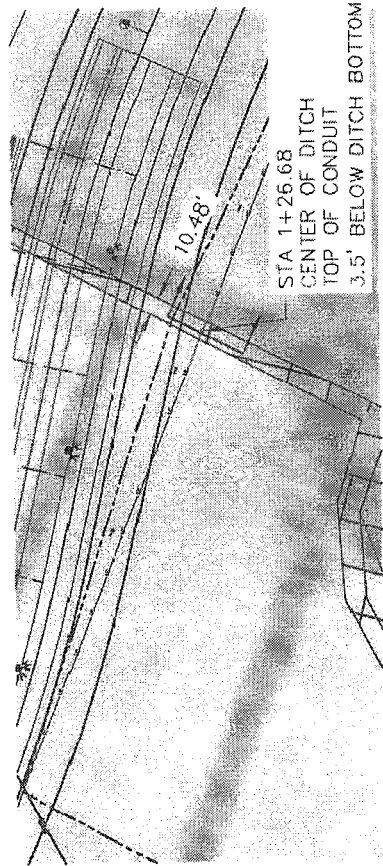
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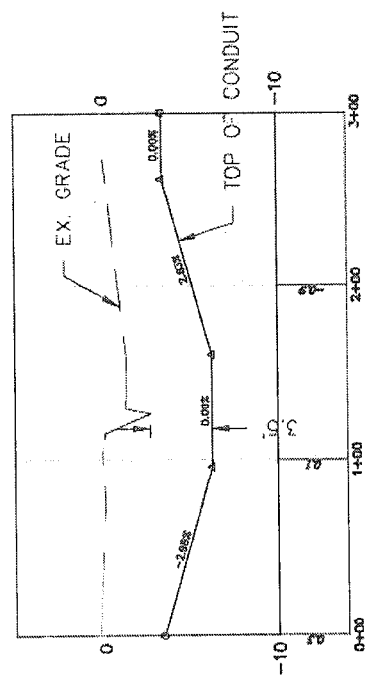


UNDERGROUND ELECTRIC CONDUIT CROSSING  
30 OF 49

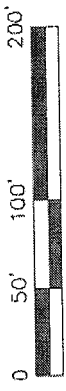
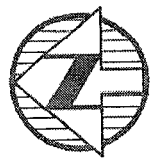
NOTE  
ALL WORK SHALL  
BE 3 FEET MIN. AWAY FROM  
WETLAND BOUNDARY (TYP.)



UNDERGROUND ELECTRIC CONDUIT PLAN  
SCALE = 1"=20'



UNDERGROUND ELECTRIC CONDUIT PROFILE  
SCALE = 1"=10' HORIZ. 1"=10' VERT.



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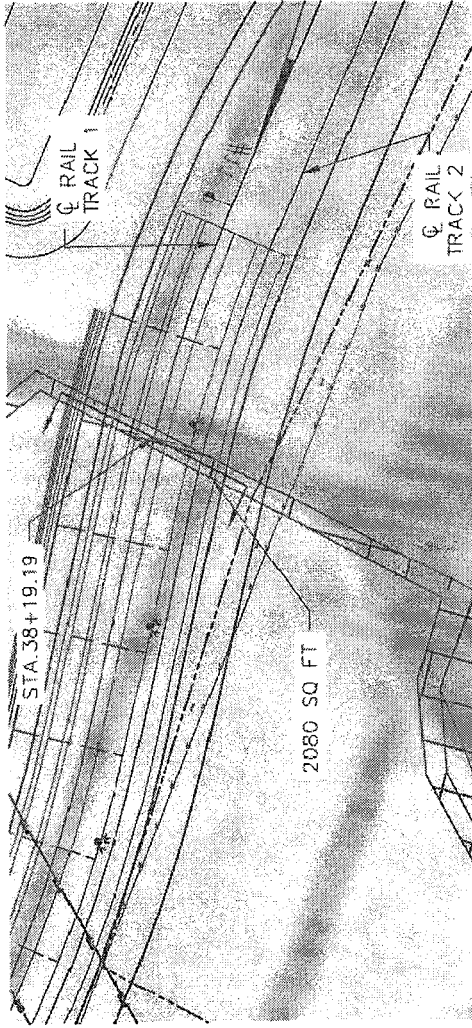
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ENERGY, LLC  
GAVILON MIDSTREAM  
ENERGY, LLC  
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COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.

UNDERGROUND ELECTRIC  
CONDUIT CROSSING

31 OF 49

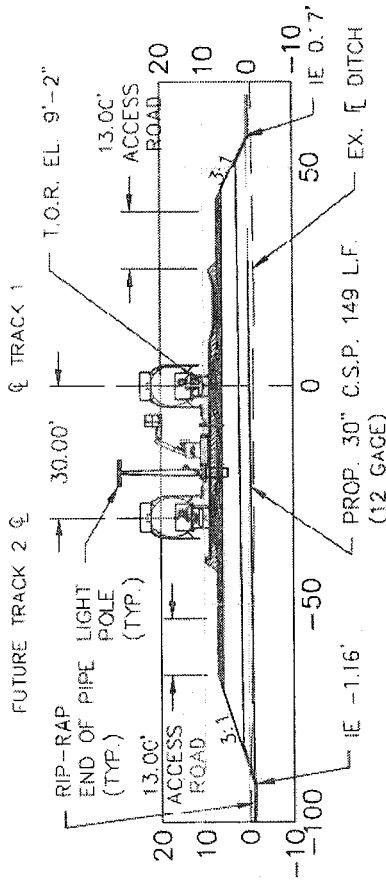




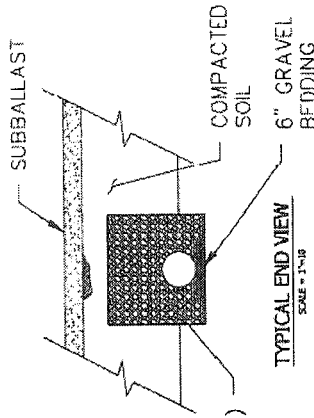


SECTION 1 PLAN  
SCALE = 1"=80'

149 L.F. C.S.P. (12 GAGE)  
45.25 CY EXCAVATION  
45.25 CY PIPE BEDDING  
8.0 CY RIP-RAP

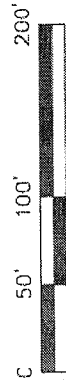
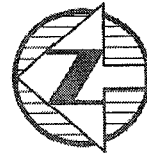


SECTION 1  
SCALE = 1"=40' HORIZ. & VERT.



TYPICAL END VIEW  
SCALE = 1"=18"

RIP-RAP PROTECTION (TYP.)



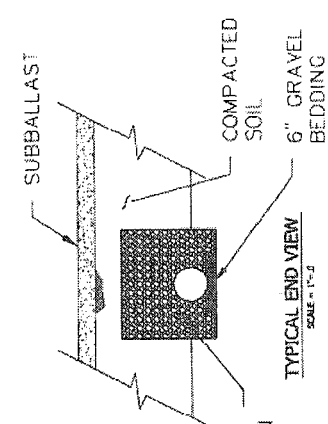
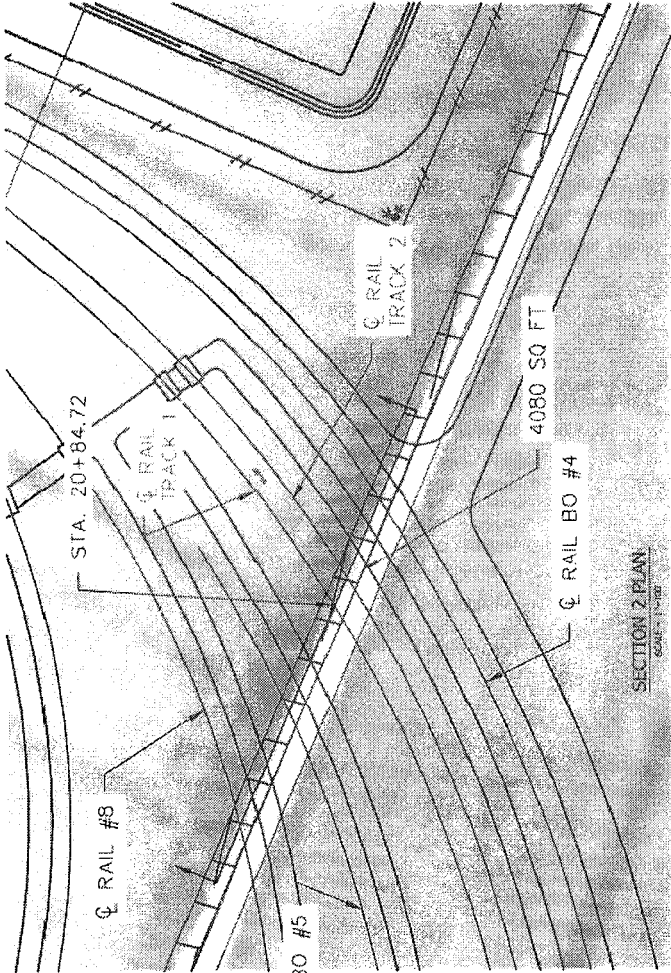
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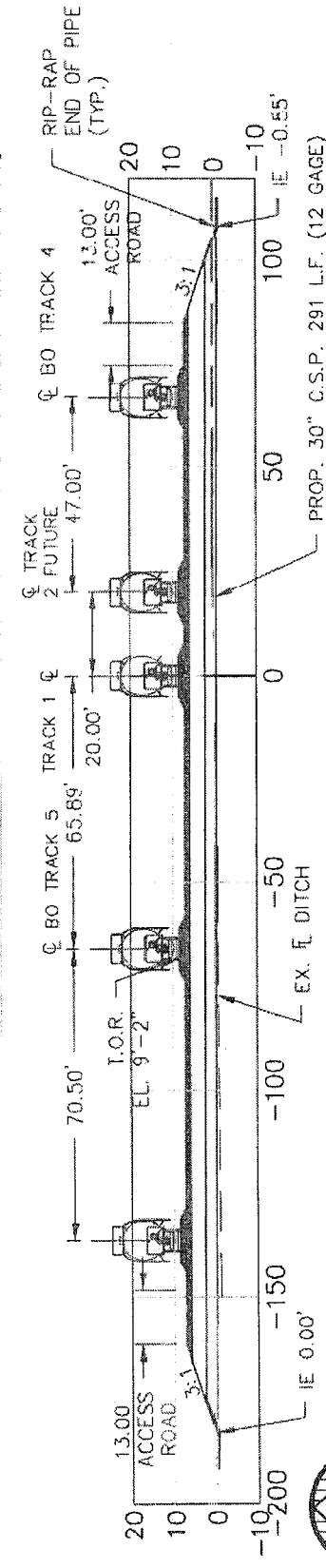
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COMMERCIAL & INDUSTRIAL CONSTRUCTION  
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(308)548-2204 FAX (308)548-2184

**GAVILON MIDSTREAM ENERGY, LLC**  
WETLAND SECTION 1  
(SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.



RIP-RAP PROTECTION (TYP.)



291 L.F. C.S.P. (12 GAGE)  
88.37 CY EXCAVATION  
88.37 CY PIPE BEDDING  
8.0 CY RIP-RAP

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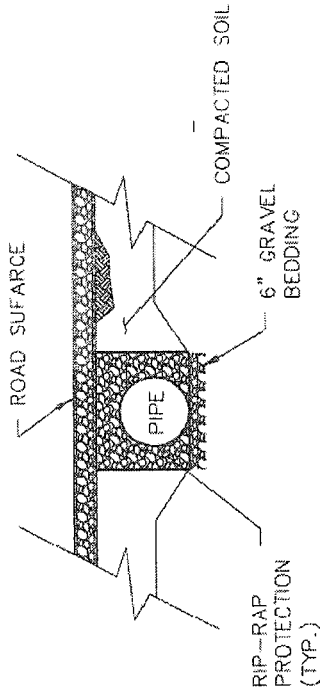
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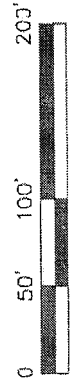
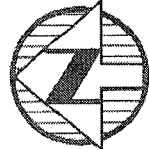
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FRANKLIN, ST. MARY PARISH, LA.

**GAVILON**  
WETLAND SECTION 2  
34 OF 49



68 L.F. C.S.P. (12 GAGE)  
 20.65 CY EXCAVATION  
 20.65 CY PIPE BEDDING  
 8.0 CY RIP-RAP

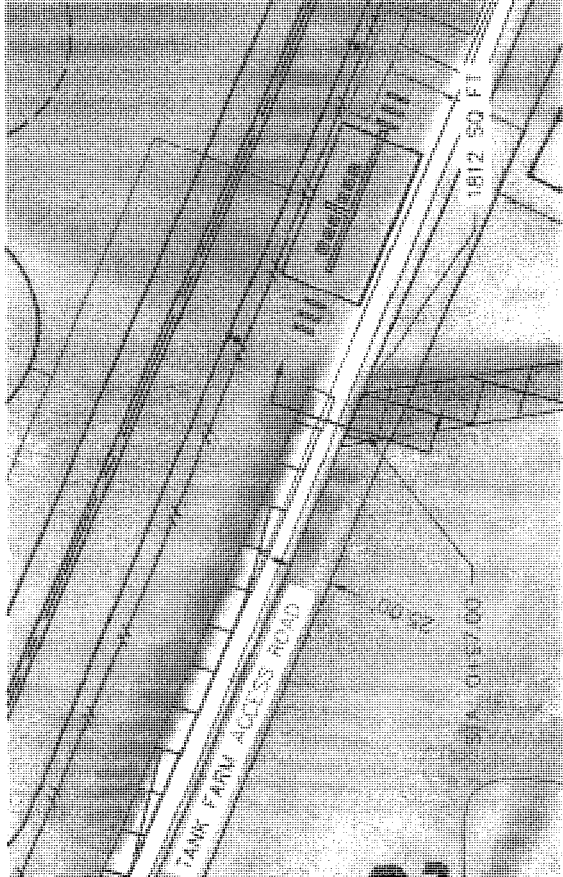


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 P.O. BOX 197, CLARKS, NE, 68628  
 (508)948-2284 FAX (308)948-2184

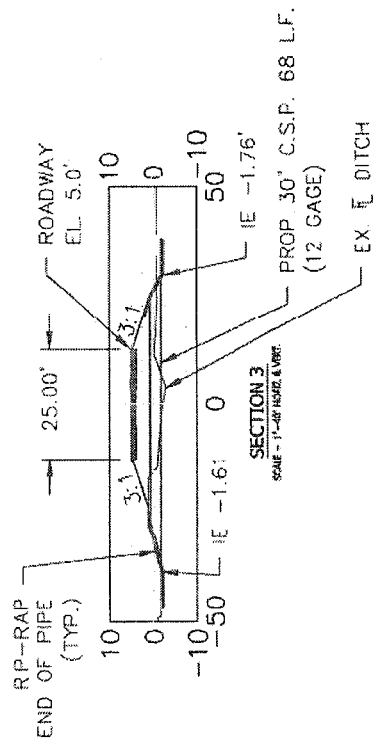
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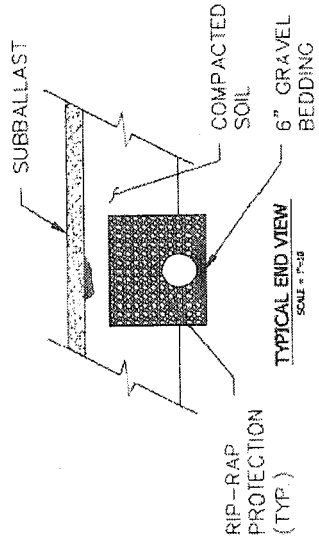
SECTION 3 PLAN  
 SCALE - 1"=100'



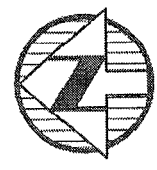
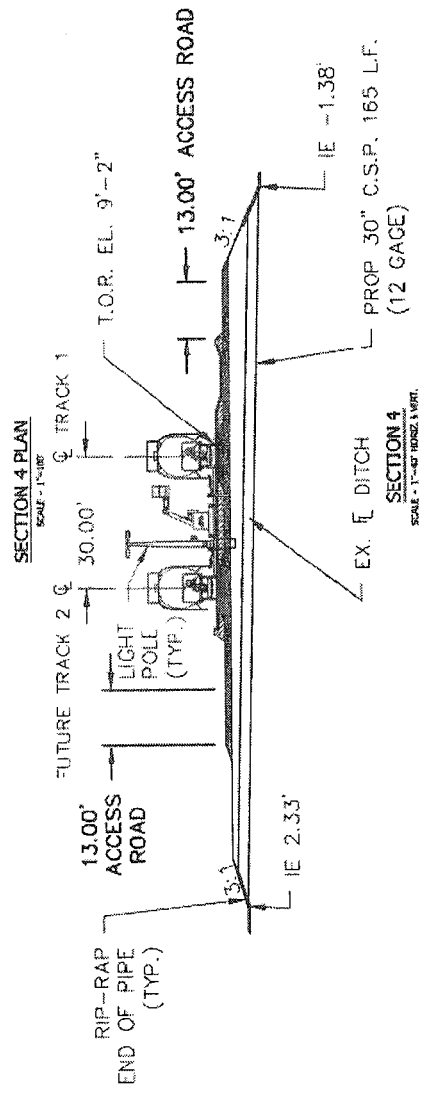
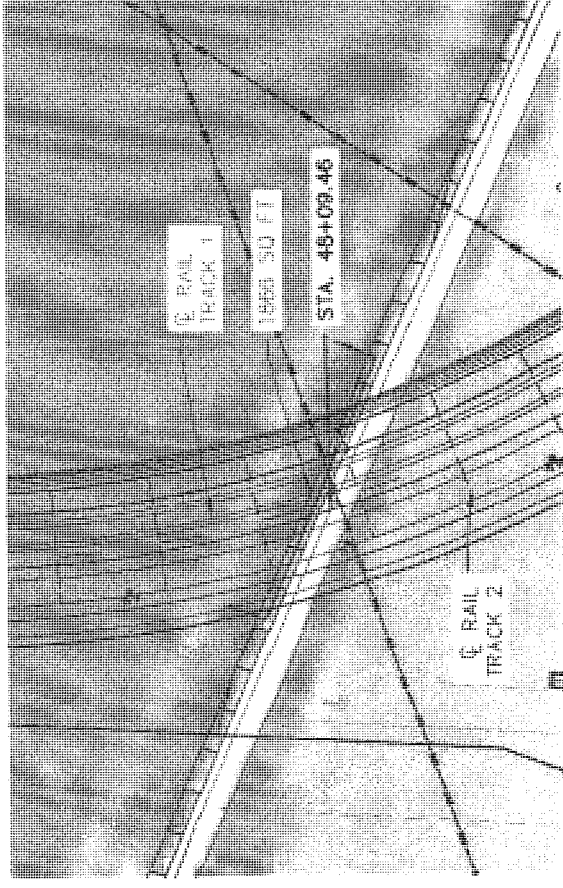
SECTION 3  
 SCALE - 1"=20' HORIZ. & VERT.

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 (SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

**GAVILON**  
 WETLAND SECTION 3



- 165 L.F. C.S.P. (12 GAGE)
- 50.1 CY EXCAVATION
- 50.1 CY PIPE BEDDING
- 8.0 CY RIP-RAP



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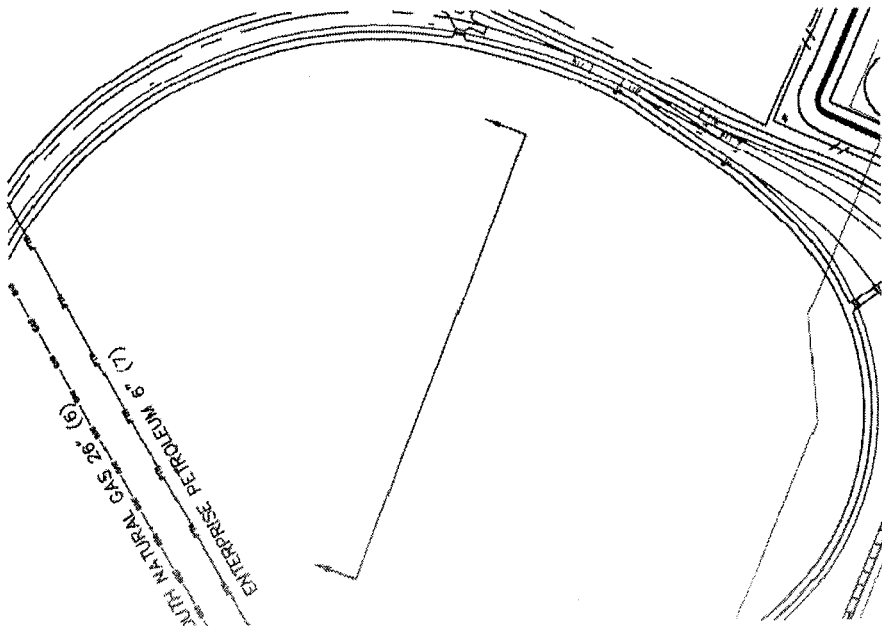
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 FRANKLIN, ST. MARY PARISH, LA.

**GAVLON**  
 WETLAND SECTION 4  
 36 OF 49



ON SITE BORROW PIT PLAN  
SCALE = 1\"/>

132,086 CY TOTAL CUT  
24,518 CY STRIPPING 1' DEEP  
107,568 CY USABLE CUT

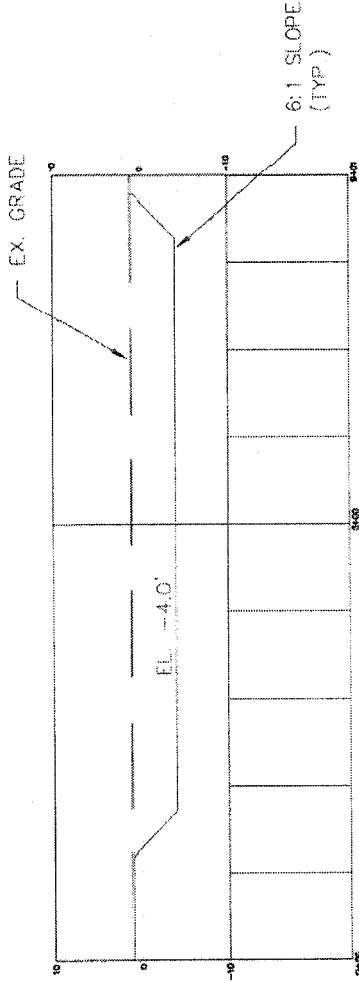


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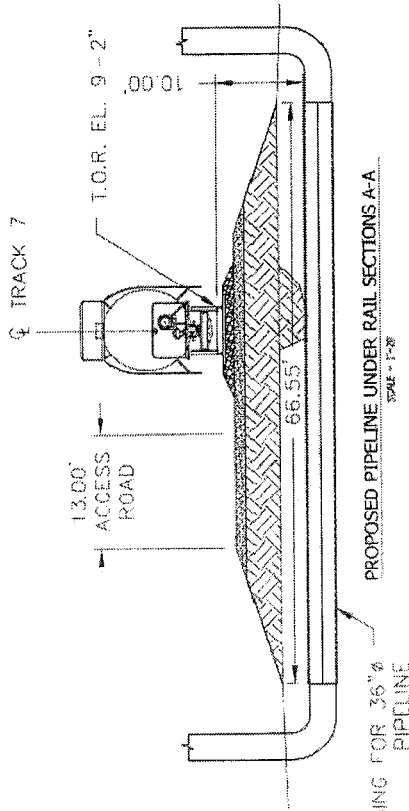
ON SITE BORROW PIT SECTION  
SCALE = 1\"/>



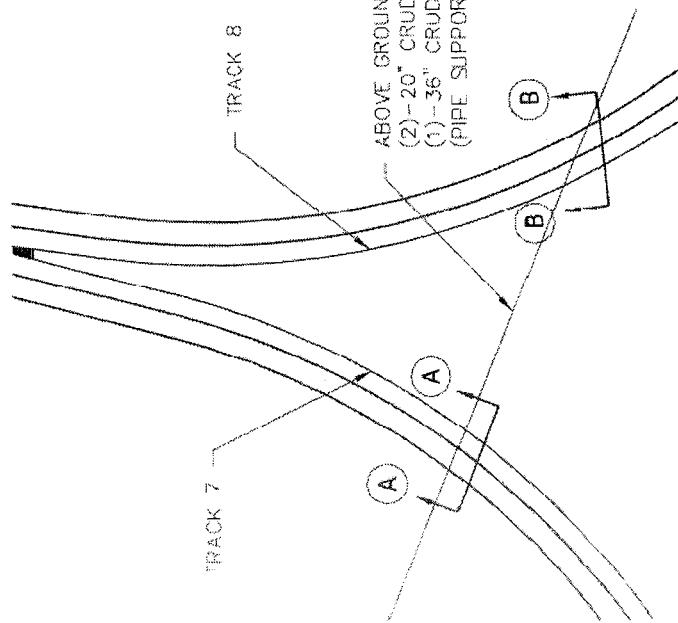
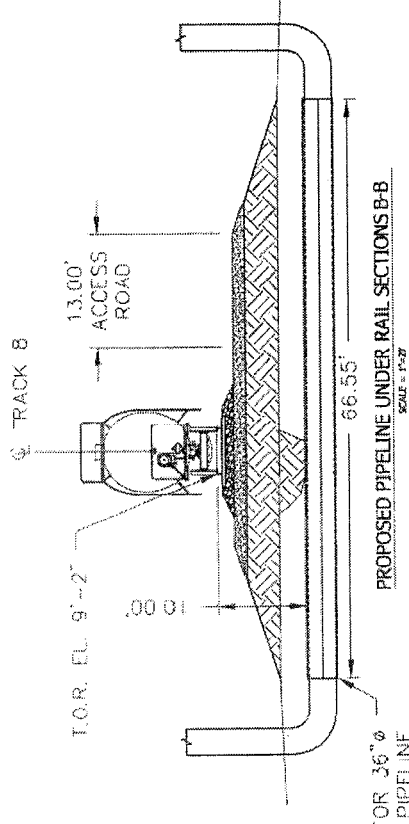
GAVILON MIDSTREAM  
ENERGY, LLC

(SITE LOCATION) INTERSECTION CABOT RD. &  
COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.

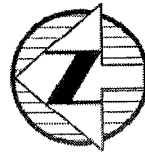
ON SITE BORROW PIT  
PLAN & SECTION



ABOVE GROUND PIPING:  
 (2) - 20" CRUDE LINE  
 (1) - 36" CRUDE LINE  
 (PIPE SUPPORTS EVERY 20' UNO.)



PIPELINE UNDER RAIL PLAN  
 SCALE = 1"=20'



EXCAVATION 186 C.Y. FOR EACH  
 PIPELINE CROSSING

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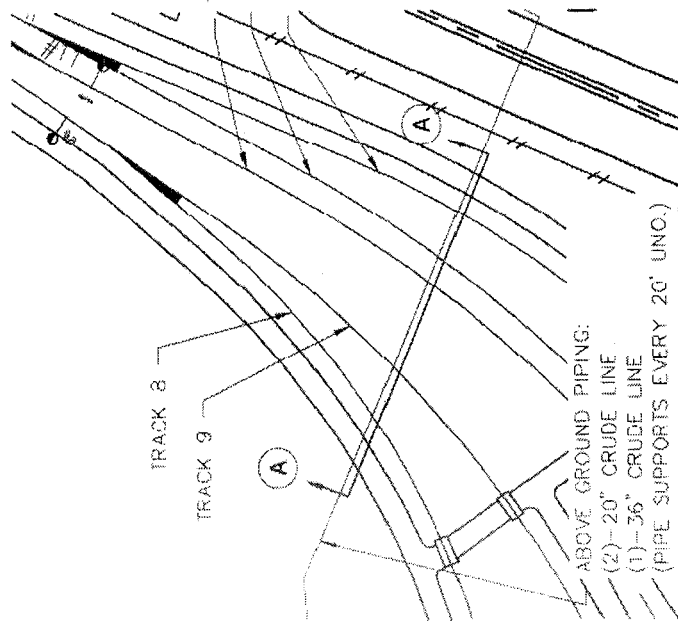
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 (SITE LOCATION) INTERSECTION CABOT RD. &  
 COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.

**GAVILON**  
 PIPELINE UNDER RAIL  
 PLAN & SECTION  
 38 OF 49



ABOVE GROUND PIPING:  
 (2)-20" CRUDE LINE  
 (1)-36" CRUDE LINE  
 (PIPE SUPPORTS EVERY 20' UNO.)

PIPELINE UNDER RAIL PLAN  
 SCALE = 1"=40'



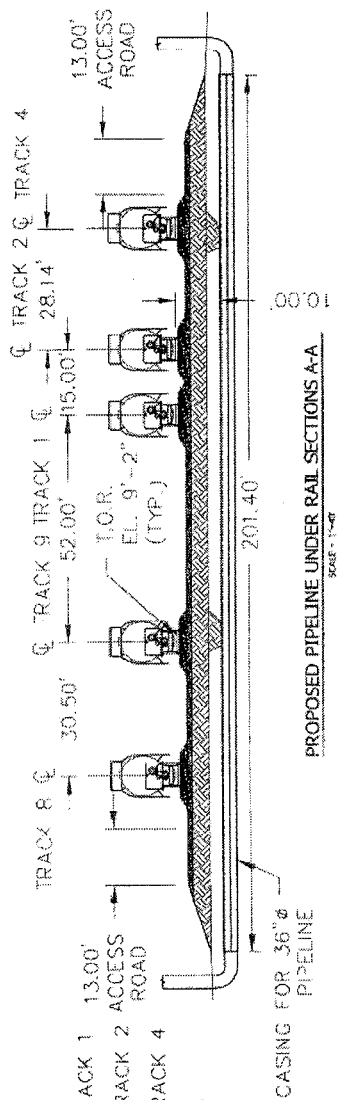
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EXCAVATION 561 C.Y.

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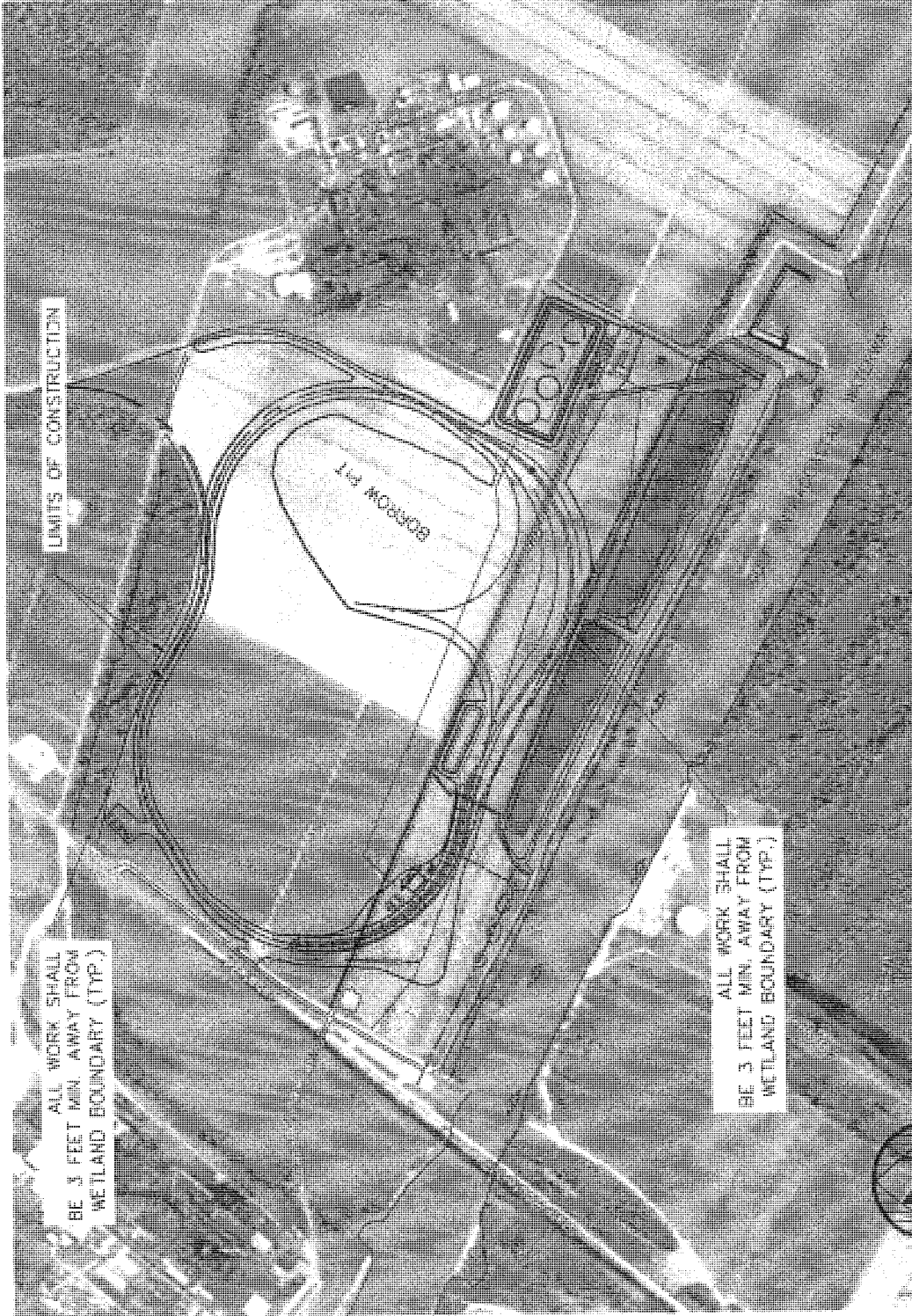


PROPOSED PIPELINE UNDER RAIL SECTIONS A-A  
 SCALE = 1"=40'

**GAVILON**  
 ENERGY, LLC  
 PIPELINE UNDER RAIL  
 PLAN & SECTION

(SITE LOCATION) INTERSECTION CABOT RD. & COLUMBIA CHEMICAL LANE  
 FRANKLIN, ST. MARY PARISH, LA.





67.9 A.C IN CONSTRUCTION LIMITS



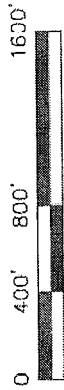
GAVILON ENERGY, LLC  
LIMITS OF CONST.

(SITE LOCATION) INTERSECTION CABOT RD. &  
COLUMBIA CHEMICAL LANE  
FRANKLIN, ST. MARY PARISH, LA.

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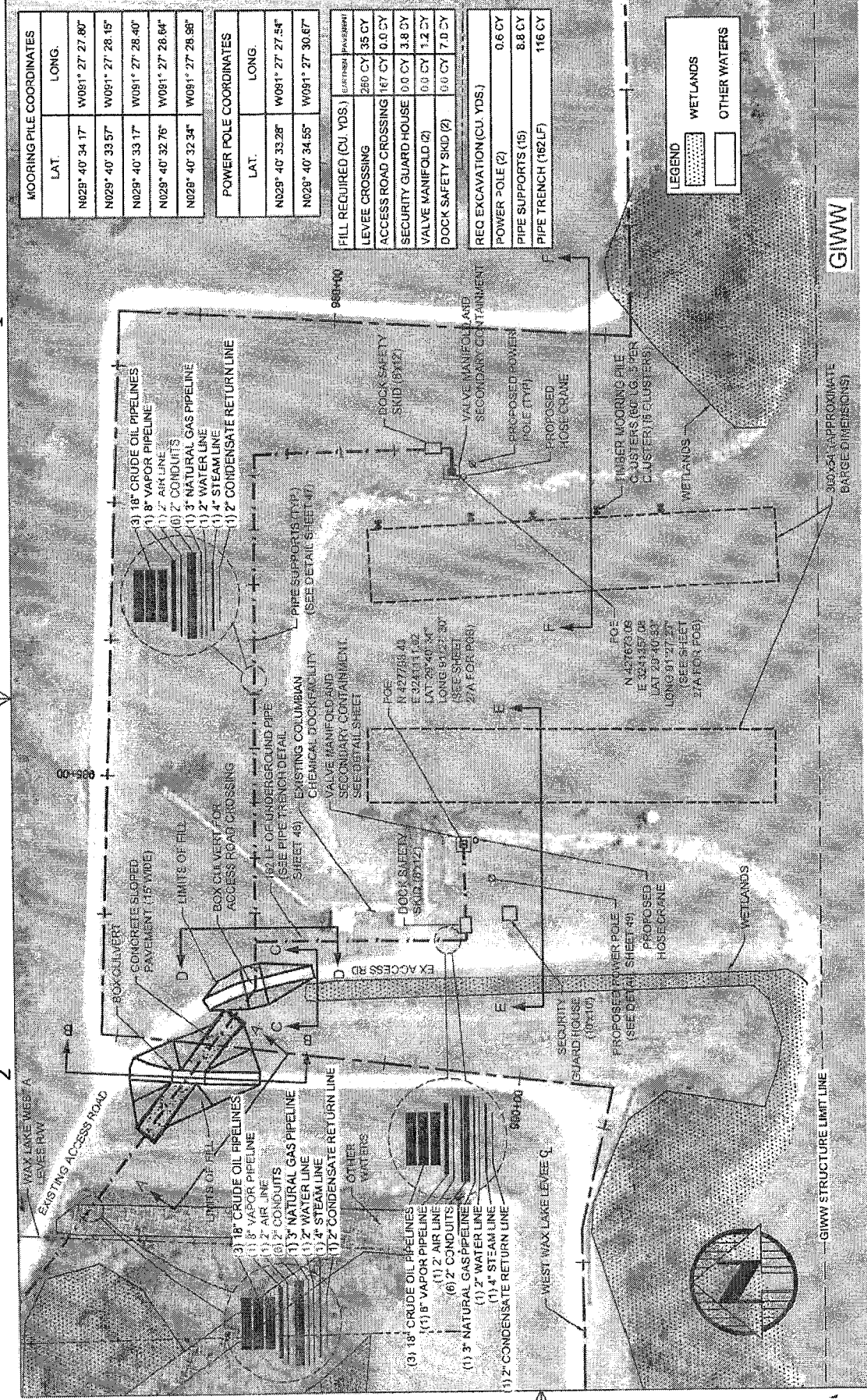
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COLUMBIA CHEMICAL CORP. 68628  
P.O. BOX 1874 CLARKS, NE  
(308)548-2284 FAX (308)548-2164

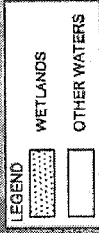
2 1



MOORING PILE COORDINATES	
LAT.	LONG.
N029° 40' 34.17"	W091° 27' 27.80"
N029° 40' 33.57"	W091° 27' 28.15"
N029° 40' 33.17"	W091° 27' 28.40"
N029° 40' 32.76"	W091° 27' 28.64"
N029° 40' 32.34"	W091° 27' 28.88"

POWER POLE COORDINATES	
LAT.	LONG.
N029° 40' 33.28"	W091° 27' 27.54"
N029° 40' 34.55"	W091° 27' 30.67"

FILL REQUIRED (CU. YDS.)	
Item	Quantity
LEVEE CROSSING	260 CY
ACCESS ROAD CROSSING	167 CY
SECURITY GUARD HOUSE	0.0 CY
VALVE MANIFOLD (2)	0.0 CY
DOCK SAFETY SKID (2)	0.0 CY
REQ. EXCAVATION (CU. YDS.)	
POWER POLE (2)	0.6 CY
PIPE SUPPORTS (15)	8.8 CY
PIPE TRENCH (162LF)	116 CY



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 1420744, 1913, 11-01055403

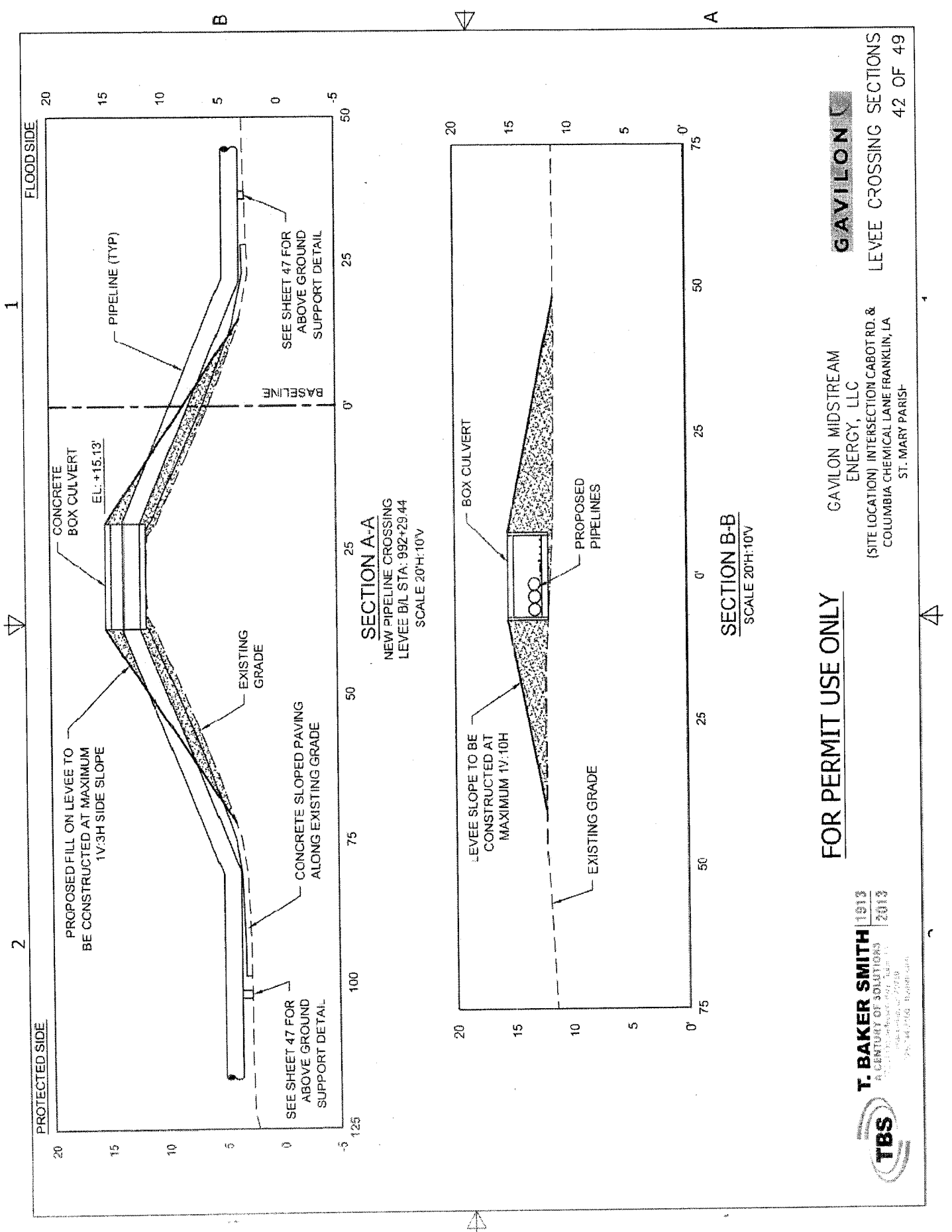


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 ST. MARY PARISH

SITE PLAN



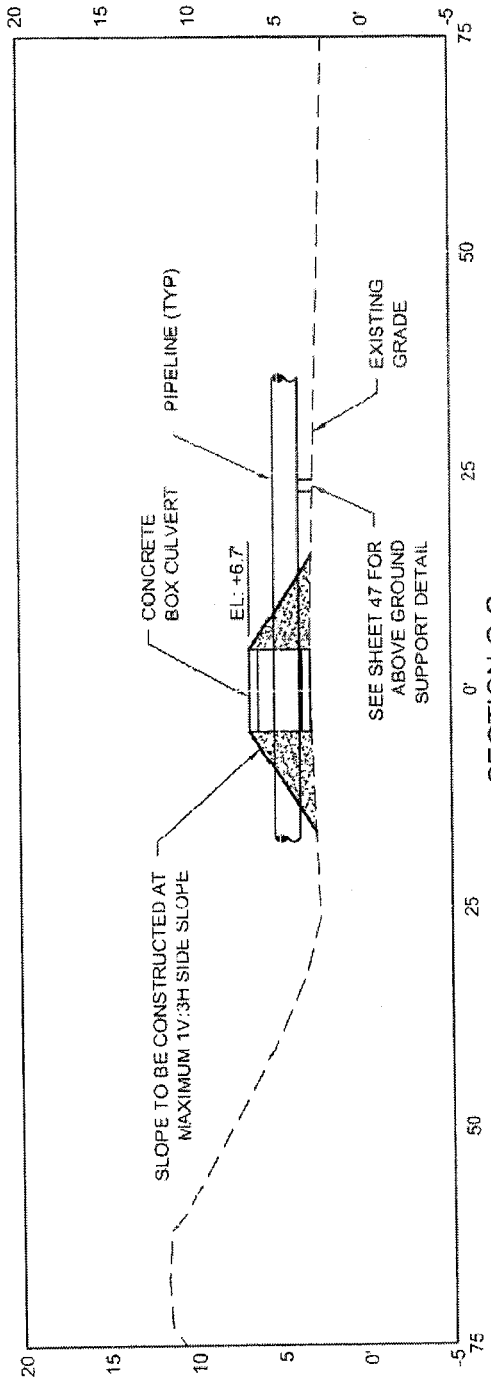
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 LEVEE CROSSING SECTIONS  
 42 OF 49

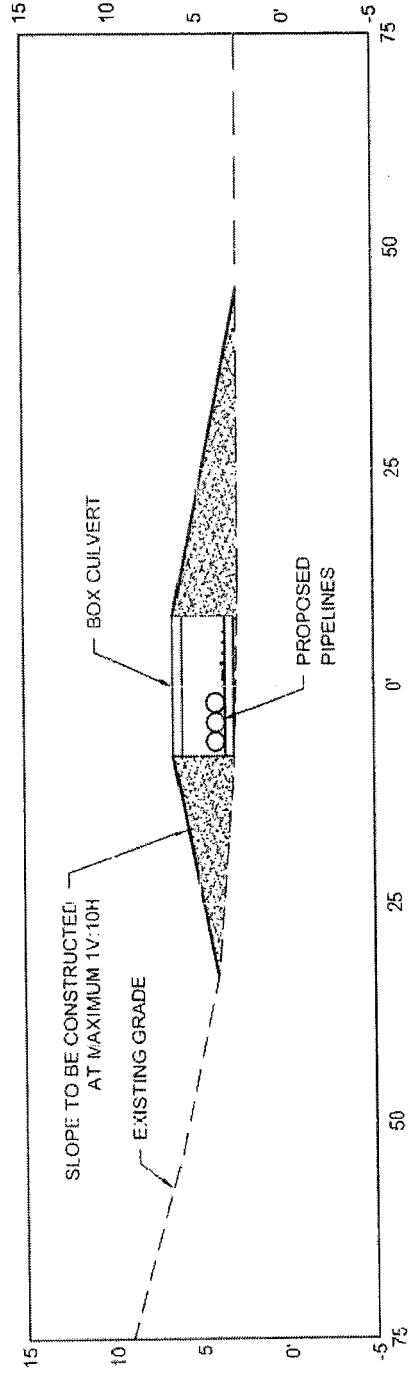
1

2



SEE SHEET 47 FOR ABOVE GROUND SUPPORT DETAIL

**SECTION C-C**  
ACCESS ROAD CROSSING  
SCALE 20'H:10'V



SLOPE TO BE CONSTRUCTED AT MAXIMUM 1V:10H EXISTING GRADE

**SECTION D-D**  
ACCESS ROAD CROSSING  
SCALE 20'H:10'V

B

A

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1001 CALIFORNIA HWY. SUITE 100  
HOUSTON, TX 77036  
Tel: 281.416.1000  
Fax: 281.416.1001  
www.tbbsolutions.com

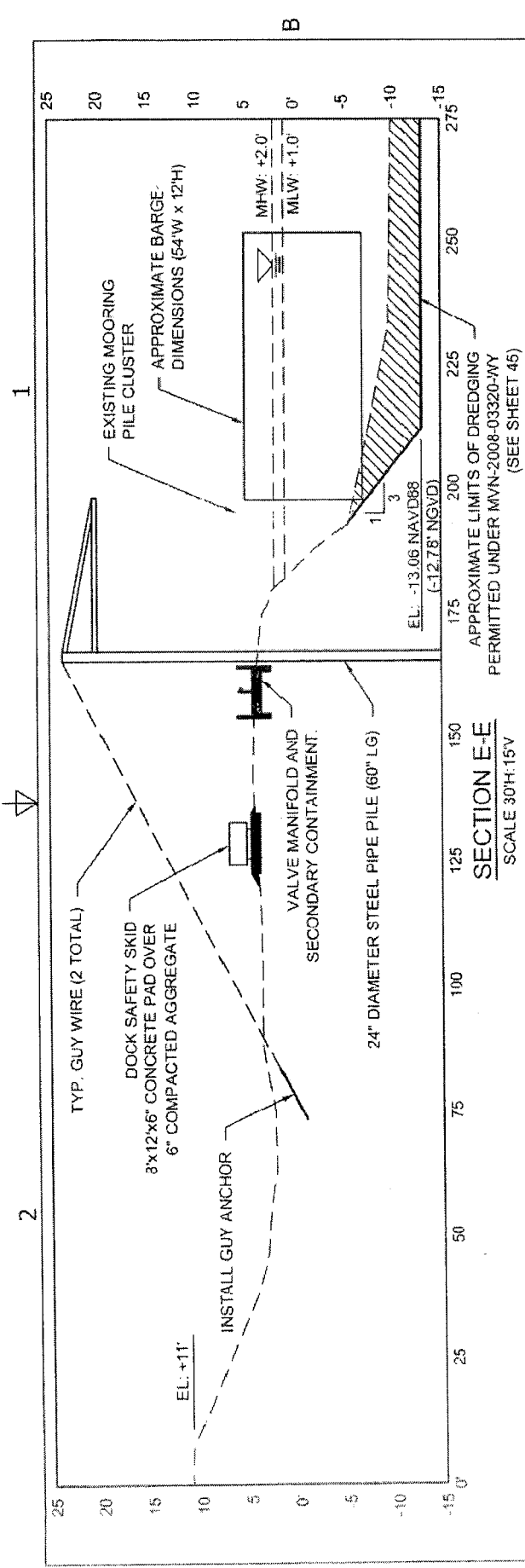


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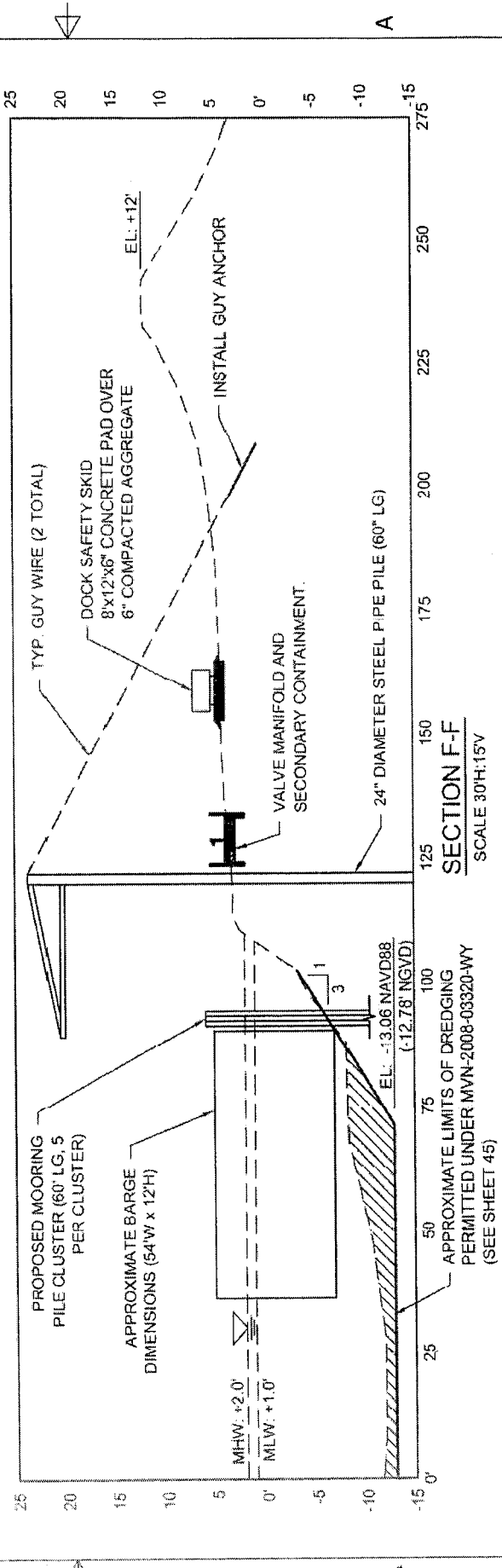
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ACCESS CROSSING SECTIONS  
43 OF 49



**SECTION E-E**  
SCALE 30H:15V



**SECTION F-F**  
SCALE 30H:15V

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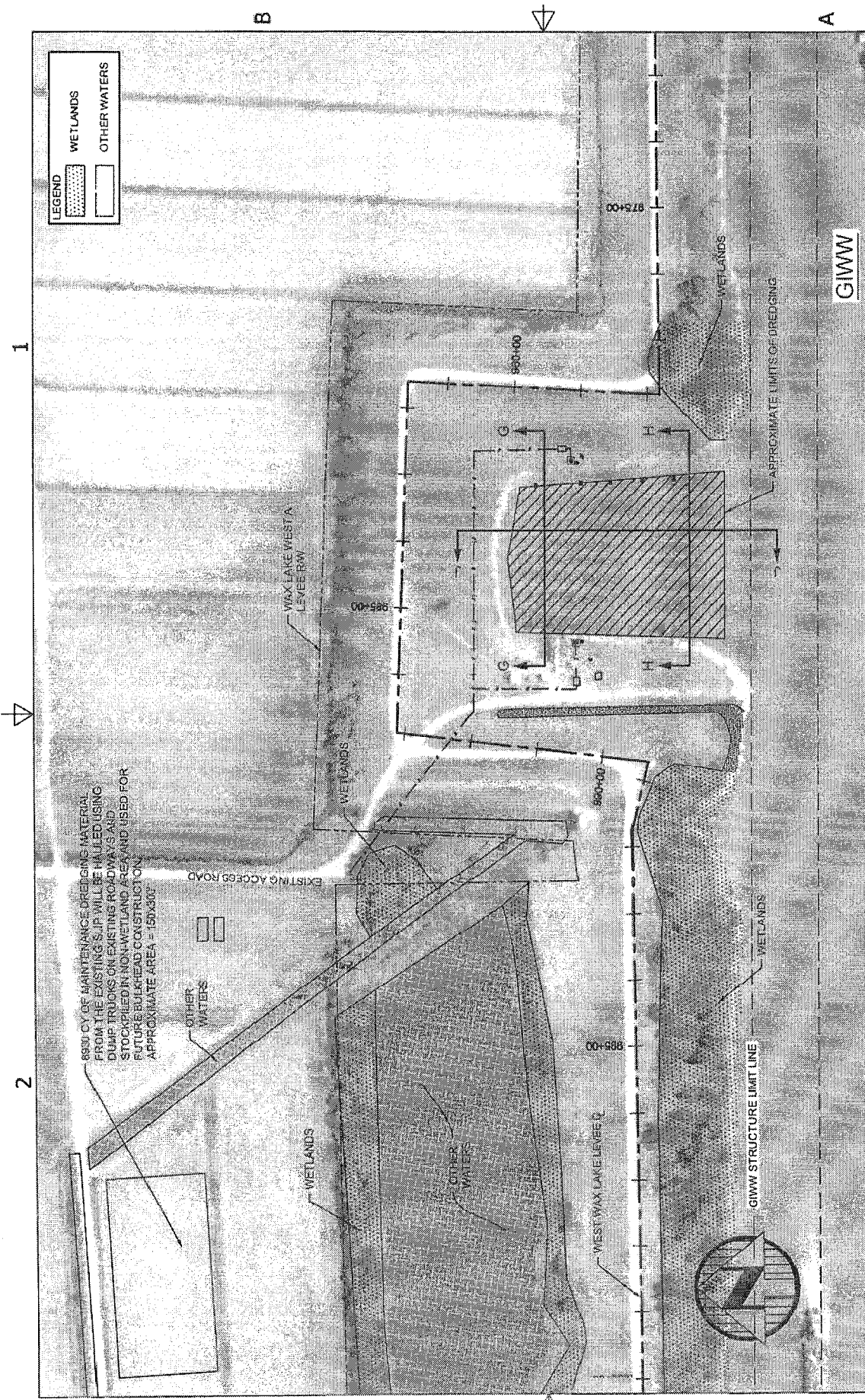
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2013  
1000 Lakeshore Drive  
Baton Rouge, LA 70803  
504.383.3333

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SLIP SECTION VIEW  
44 OF 49



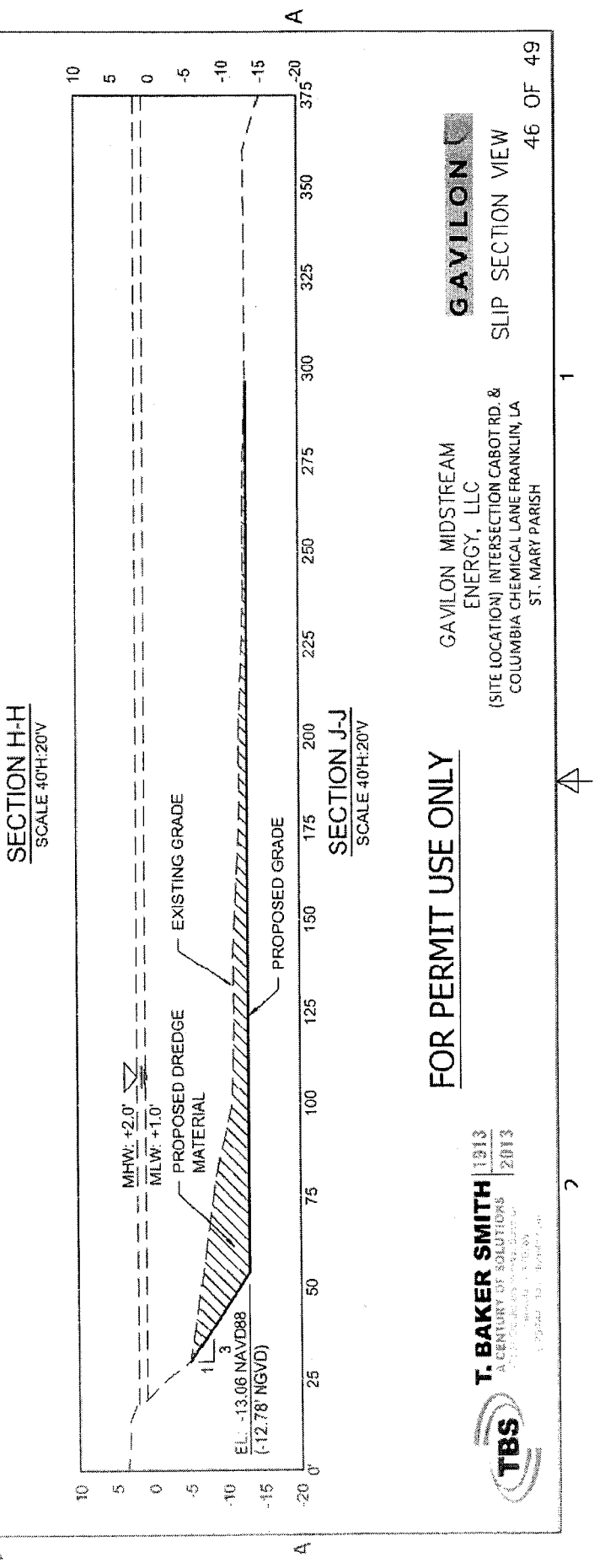
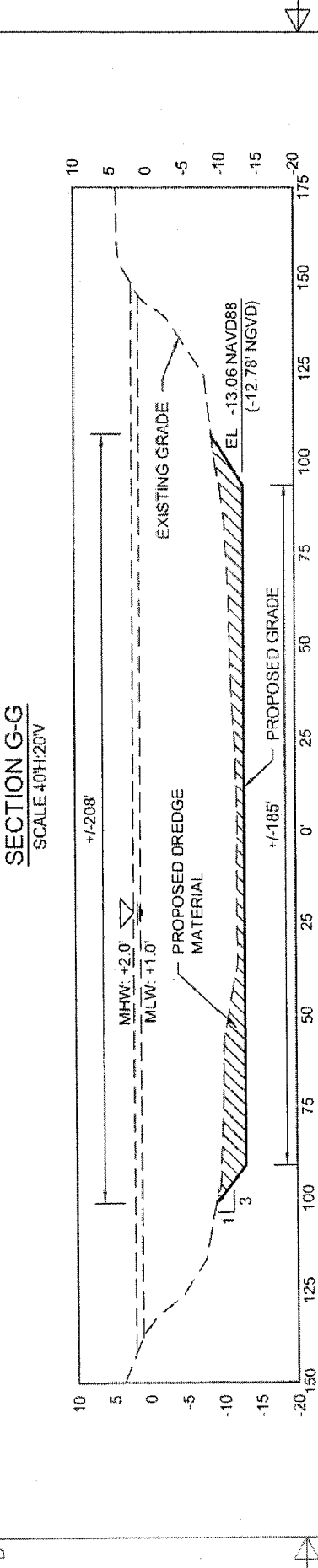
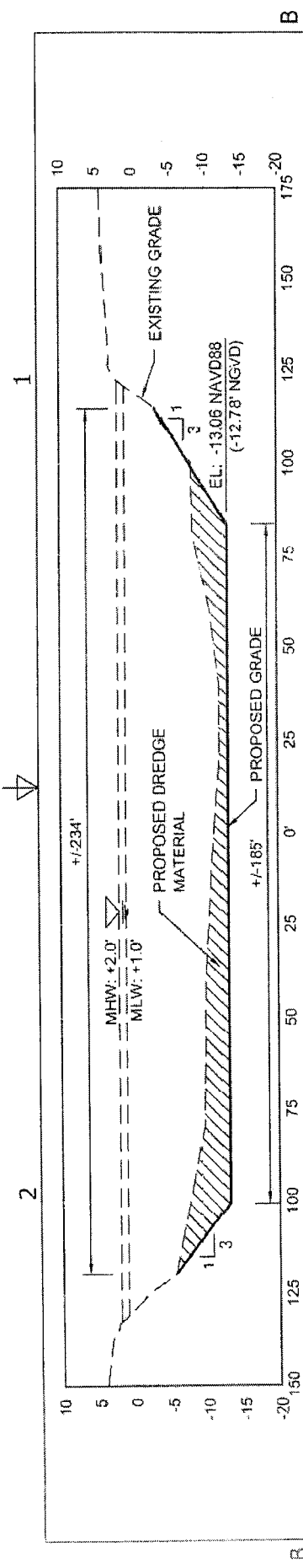


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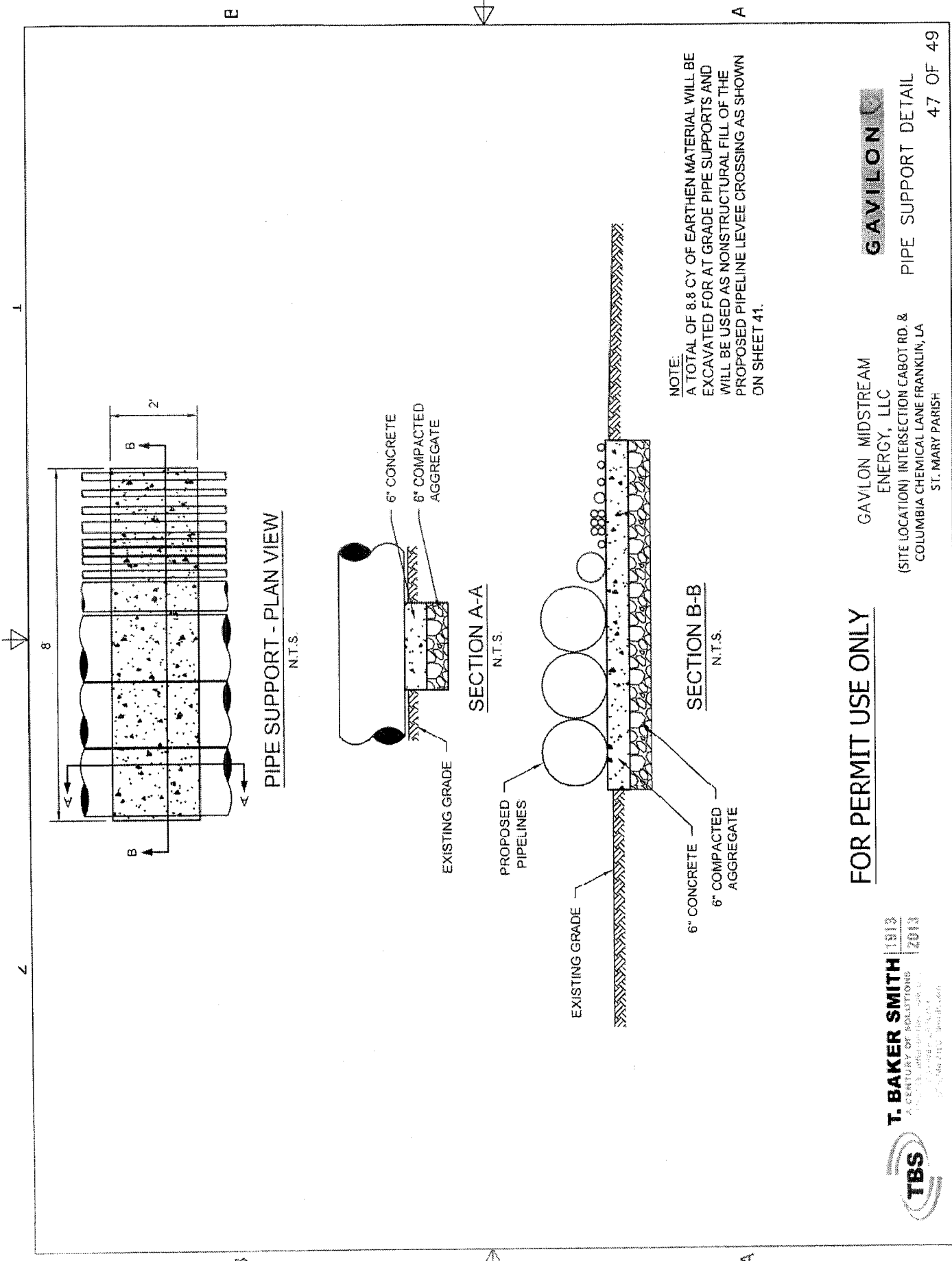
**DREDGING PLAN**



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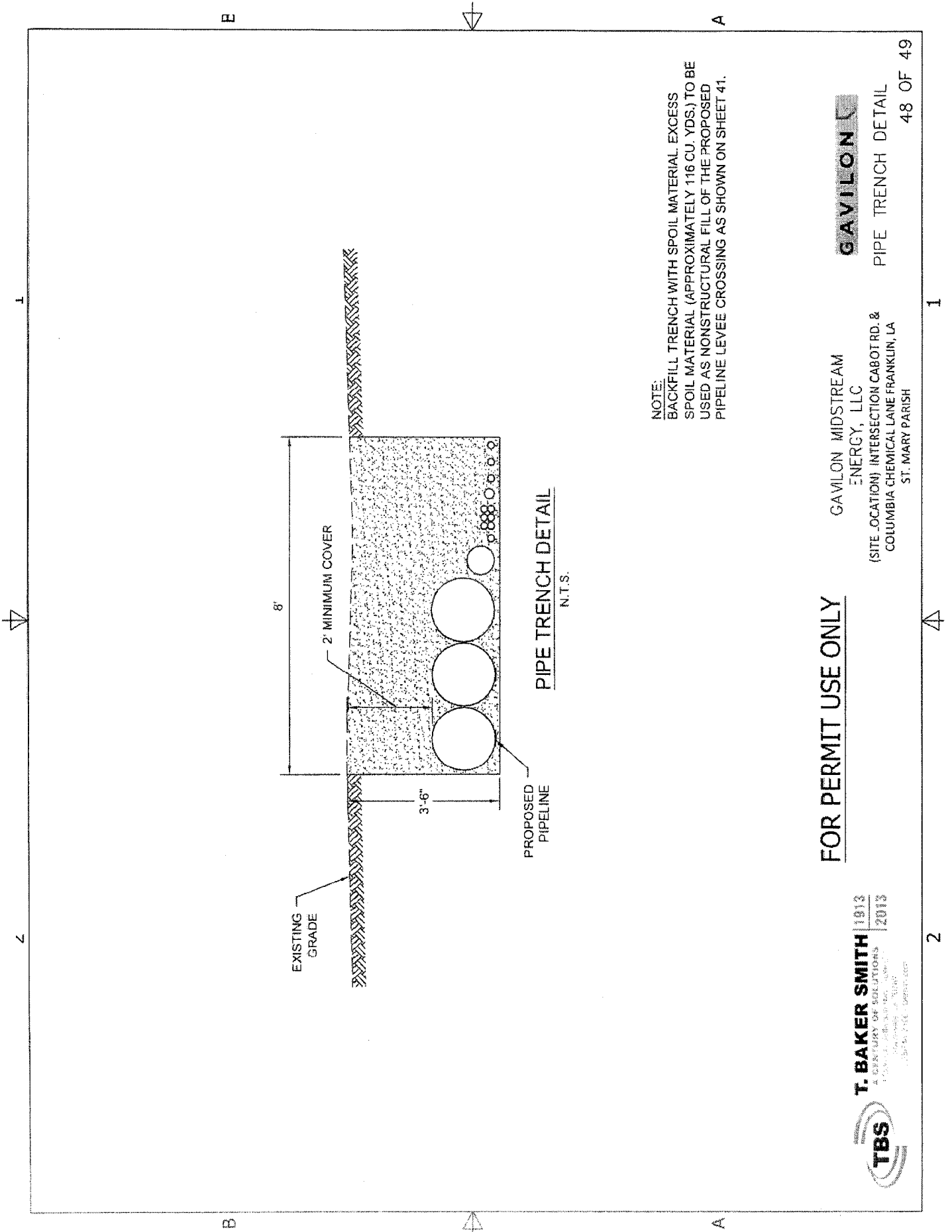
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 ST. MARY PARISH

**GAVILON**

PIPE SUPPORT DETAIL

47 OF 49





**PIPE TRENCH DETAIL**  
N.T.S.

**NOTE:**  
BACKFILL TRENCH WITH SPOIL MATERIAL EXCESS  
SPOIL MATERIAL (APPROXIMATELY 116 CU. YDS.) TO BE  
USED AS NONSTRUCTURAL FILL OF THE PROPOSED  
PIPELINE LEVEE CROSSING AS SHOWN ON SHEET 41.

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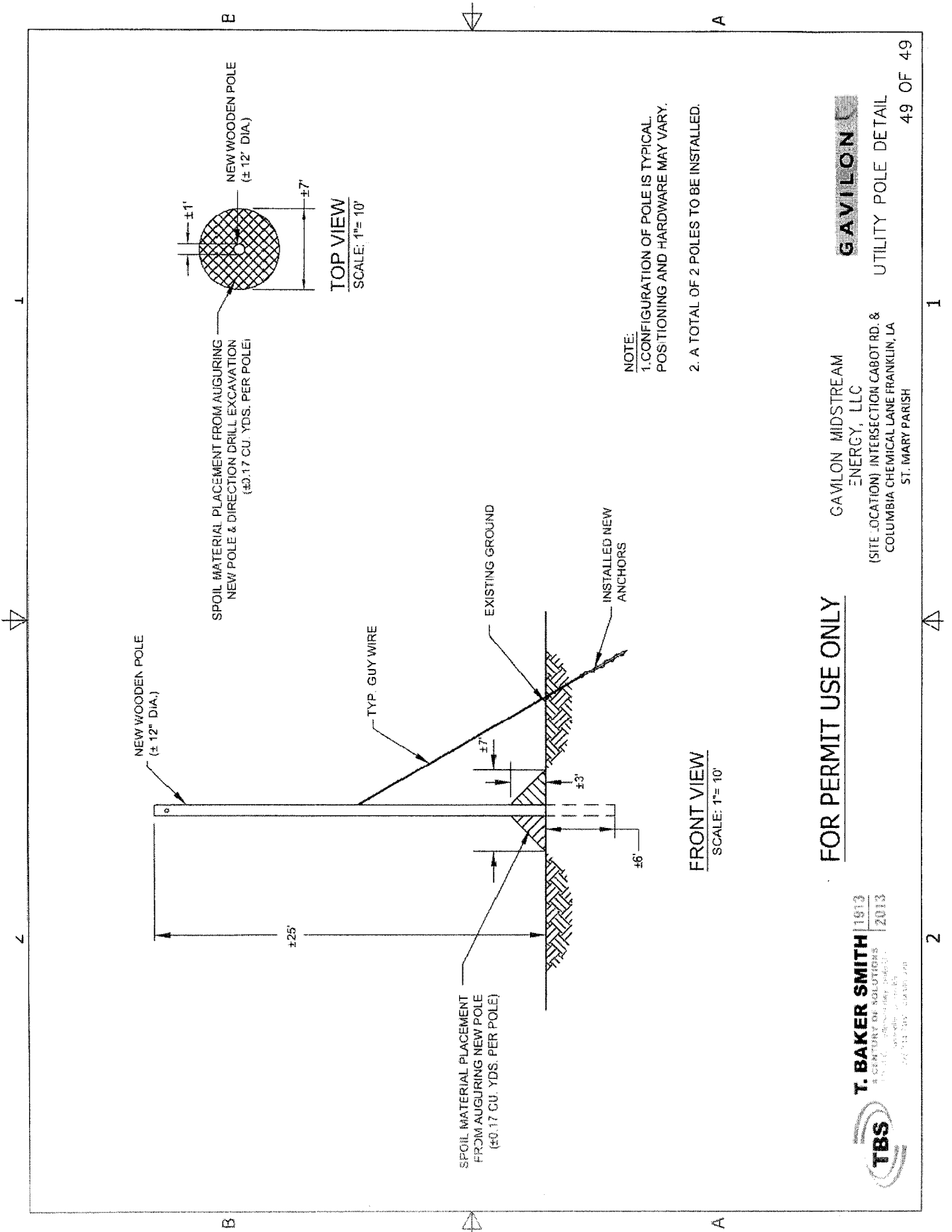
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PIPE TRENCH DETAIL

48 OF 49



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**GAVILON**  
 UTILITY POLE DETAIL