

ADDENDUM NO. 2

June 1, 2010

JACK BROOKS REGIONAL AIRPORT WEST DITCH IMPROVEMENTS

Jefferson County, Texas

Job No. JEF-120, CONTRACT NO. 1

This document constitutes ADDENDUM NO. 2 to the JACK BROOKS REGIONAL AIRPORT WEST DITCH IMPROVEMENTS PROJECT issued for bidding by Jefferson County, Texas. **BIDDER MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON HIS BID FORM**.

CONTRACT DOCUMENTS

- REPLACE "SECTION C" STANDARD FORM OF AGREEMENT with the REVISED "SECTION C" STANDARD FORM OF AGREEMENT (attached). Changes included are the addition and deletion of BASE BID PAY ITEMS and CHANGES TO QUANTITIES.
- 2. DELETE SPECIAL PROVISION NO. 1 TO ITEM NO. P-151.
- 3. REPLACE SPECIAL PROVISION NO. 1 TO ITEM NO. T-901 with the REVISED SPECIAL PROVISION NO. 1 TO ITEM NO. T-901 (attached). Changes include the addition of "Bermuda grass at a rate of 2.7 lbs. PLS/ac."
- 4. **ADD** to the project specifications. **GEOTECHNICAL REPORT NO. 78-216** (for informational purposes only) prepared by McBride Ratcliff & Associates, Inc.



CONSTRUCTION PLANS

1. **REPLACE** the following **PLAN SHEETS** with the attached **REVISED PLAN SHEETS**

PLAN SHEETS - 2, 4, 5, 6, 7, 28, 29, 30, AND 31

2. **DELETE** the following **PLANS SHEETS:**

PLAN SHEETS - 34, 35, 36, AND 37

3. **ADD** the following **PLAN SHEETS:**

PLAN SHEETS - 7A AND 7B

NO OTHER CONDITIONS OF THE CONTRACT ARE HEREBY CHANGED
[END OF ADDENDUM NO. 2]

EJCDC STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR ON THE BASIS OF A STIPULATED PRICE

THIS AGREEMENT is by and between	JEFFERSON COUNTY	
(hereinafter called OWNER) and		
(hereinafter called CONTRACTOR).		
OWNER and CONTRACTOR, in consideration of the mutu	ual covenants hereinafter set forth, agree as follows:	

ARTICLE 1 - WORK

1.01 CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

The construction of Airport West ditch improvements for the Jack Brooks Regional Airport.

ARTICLE 2 - THE PROJECT

2.01 The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

JACK BROOKS REGIONAL IMPROVEMENTS TO AIRPORT WEST DITCH.

ARTICLE 3 - ENGINEER

3.01 The Project has been designed by **Arceneaux & Gates Consulting Engineers**, **Inc.** who is hereinafter called ENGINEER and who is to act as OWNER's representative, assume all duties and responsibilities, and have the rights and authority assigned to ENGINEER in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 - CONTRACT TIMES

- 4.01 Time of the Essence
- 4.02 Days to Achieve Substantial Completion and Final Payment
- A. The Work will be substantially completed within <u>150 WORKING DAYS</u> after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with paragraph 14.07 of the General Conditions.

4.03 Liquidated Damages

A. CONTRACTOR and OWNER recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not completed within the times specified in paragraph 4.02 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration preceding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but

not as a penalty), <u>CONTRACTOR SHALL PAY OWNER \$500</u> for each day that expires after the time specified in paragraph 4.02 for Substantial Completion until the Work is substantially complete.

ARTICLE 5 - CONTRACT PRICE

5.01 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to paragraphs 5.01.A, below:

A. For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated in this paragraph 5.01.A:

UNIT PRICE WORK

Item No.	Approx. Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
		Ī			
1.	1	L.S.	Mobilization, Including Bonds, Insurance, Outside Facilities, Complete.	\$	\$
			Per Lump Sum	Ψ	
2.	36	AC.	Clearing and Grubbing, Alignment "A" Sta. 0+00 to Sta. 97+19, Complete in Place. @ Per Acre	\$	\$
			Drainage Excavation, Alignment "A" Sta.		
3.	54,981	C.Y.	0+60 to Sta. 96+93, Complete in Place. @ Per Cubic Yard	\$	_ \$
4.	16,695	C.Y.	Embankment in Place, Alignment "A" Sta. 0+60 to Sta. 96+93, Complete in Place.	\$	\$
			Per Cubic Yard		
5.	100	C.Y.	Drainage Excavation, Alignment "C" Sta. 0+00 to Sta. 29+56, Complete in Place. Per Cubic Yard	\$	\$

Item No.	Approx. Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
6.	11,715	C.Y.	Embankment in Place, Alignment "C" Sta. 0+00 to Sta. 29+56, Complete in Place. @ Per Cubic Yard	\$	\$
7.	60	L.F.	12' x 6' Reinforced Concrete Box, C-1433 with required Bedding and Backfill, Complete in Place. @ Per Linear Foot	\$	\$
8.	30	L.F.	12' x 5' Reinforced Concrete Box, C-1433 with required Bedding and Backfill, Complete in Place. @	\$	\$
9.	30	L.F.	8' x 5' Reinforced Concrete Box, C-1433 with required Bedding and Backfill, Complete in Place. @	\$	\$
10.	1,621	L.F.	7' x 5' Reinforced Concrete Box, C-1433 with required Bedding and Backfill, Complete in Place. @	\$	\$
11.	30	L.F.	5' x 5' Reinforced Concrete Box, C-1433 with required Bedding and Backfill, Complete in Place. @ Per Linear Foot	\$	\$
12.	445	L.F.	30-Inch Reinforced Concrete Pipe, C-76, Class III, with required Bedding and Backfill. Complete in Place. Per Linear Foot	\$	\$

Item No.	Approx. Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
13.	138	L.F.	24-Inch Reinforced Concrete Pipe, C-76, Class III, with required Bedding and Backfill. Complete in Place. @ Per Linear Foot	\$	\$
14.	519	L.F.	18-Inch Reinforced Concrete Pipe, C-76, Class III, with required Bedding and Backfill. Complete in Place. @ Per Linear Foot	\$	\$
15.	2	EA.	Type "C" Grate Inlet, Complete in Place. @ Per Each	\$	\$
16.	1	EA.	Saddle Inlet, Complete in Place. @ Per Each	\$	\$
17.	1	EA.	Reinforced Concrete Wingwall with Parallel Wings, Complete in Place. @ Per Each	\$	\$
18.	5	EA.	Reinforced Concrete Wingwall with 3:1 Flare Wings, Complete in Place. @ Per Each	\$	\$
19.	1,798	S.Y.	Aggregate Base Course Driveway, Complete in Place. @ Per Square Yard	\$	\$
20.	7	C.Y.	Reinforced Concrete Riprap, 4-Inch Thick, Complete in Place. @ Per Cubic Yard	\$	\$

Item No.	Approx. Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
21.	2,567	L.F.	Six Foot (6') Chain Link Fence with Hot Dipped Galvanized 9 Gauge Wire Mesh, Three (3) Strands, 14 Gauge Barbed Wire, Reuse Existing Fabric, Complete in Place. @ Per Linear Foot	\$	\$
22.	135	L.F.	Remove and Dispose of 48-Inch Reinforced Concrete Pipe, Backfill to Existing Grades, Complete in Place. @ Per Linear Foot	\$	\$
23.	2,744	L.F.	Remove and Dispose of 36-Inch Reinforced Concrete Pipe, Complete in Place. @ Per Linear Foot	\$	\$
24.	75	L.F.	Remove and Dispose of 24-Inch Reinforced Concrete Pipe, Complete in Place. @ Per Linear Foot	\$	
25.	378	L.F.	Remove and Dispose of 18-Inch Reinforced Concrete Pipe, Complete in Place. @ Per Linear Foot	\$	\$
26.	1	EA.	Remove and Dispose of existing Storm Sewer Inlet, Complete in Place. @ Per Each	\$	\$
27.	4,676	L.F.	Remove and Dispose of Chain Link Fence, Complete in Place. @ Per Linear Foot	\$	\$

Item No.	Approx. Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Amount
28.	38	S.Y.	Remove and Replace Perimeter Access Road, Complete in Place. @ Per Square Yard	\$	\$
29.	82	AC.	Permanent Broadcast Seeding, Complete in Place. @ Per Acre	\$	\$
30.	82	AC.	Vegetative Watering, Complete in Place. @ Per Acre	\$	\$
31.	82	AC.	Fertilizing, Complete in Place. @ Per Acre	\$	\$
35.	8	EA.	Type 1 Rock Filter Dam, Complete in Place. @ Per Each	\$	\$

TOTAL AMOUNT BID \$	
PIDDED asknowledges receipt of the following ADDENDIM:	
BIDDER acknowledges receipt of the following ADDENDUM:	
	-

As provided in paragraph 11.03 of the General Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by ENGINEER as provided in paragraph 9.08 of the General Conditions. Unit prices have been computed as provided in paragraph 11.03 of the General Conditions.

ARTICLE 6 - PAYMENT PROCEDURES

6.01 Submittal and Processing of Payments

A. CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by ENGINEER as provided in the General Conditions.

6.02 Progress Payments; Retainage

- A. OWNER shall make progress payments on account of the Contract Price on the basis of CONTRACTOR'S Applications for Payment on or about the 25th day of each month during performance of the Work as provided in paragraphs 6.02.A.1 and 6.02.A.2 below. All such payments will be measured by the schedule of values established in paragraph 2.07.A of the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements:
 - 1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as ENGINEER may determine or OWNER may withhold, in accordance with paragraph 14.02 of the General Conditions:
 - a. 95 % of Work completed (with the balance being retainage). If the Work has been 50% completed as determined by ENGINEER, and if the character and progress of the Work have been satisfactory to OWNER and ENGINEER, OWNER, on recommendation of ENGINEER, may determine that as long as the character and progress of the Work remain satisfactory to them, there will be no retainage on account of Work subsequently completed, in which case the remaining progress payments prior to Substantial Completion will be in an amount equal to 100% of the Work completed less the aggregate of payments previously made; and
- b. 95 % of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

6.03 Final Payment

A. Upon final completion and acceptance of the Work in accordance with paragraph 14.07 of the General Conditions, OWNER shall pay the remainder of the Contract Price as recommended by ENGINEER as provided in said paragraph 14.07.

ARTICLE 7 - INTEREST

ARTICLE 8 - CONTRACTOR'S REPRESENTATIONS

- 8.01 In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations:
- A. CONTRACTOR has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.
- B. CONTRACTOR has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

- C. CONTRACTOR is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. CONTRACTOR has obtained and carefully studied (or assumes responsibility for having done so) all, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by CONTRACTOR, and safety precautions and programs incident thereto
- E. CONTRACTOR does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
- F. CONTRACTOR is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Contract Documents.
- G. CONTRACTOR has correlated the information known to CONTRACTOR, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- H. CONTRACTOR has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that CONTRACTOR has discovered in the Contract Documents, and the written resolution thereof by ENGINEER is acceptable to CONTRACTOR.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

ARTICLE 9 - CONTRACT DOCUMENTS

9.01 Contents

- A. The Contract Documents consist of the following:
 - 1. This Agreement;
 - 2. Performance Bond;
 - 3. Payment Bond;
 - General Conditions:
 - 5. Supplementary Conditions;
 - 6. Specifications as listed in the table of contents of the Project Manual;
 - 7. Drawings consisting of a cover sheet and sheets numbered <u>1</u> through <u>33</u> and <u>38</u> through <u>69</u>, inclusive, with each sheet bearing the following general title: <u>JACK_BROOKS_REGIONAL_AIRPORT_IMPROVEMENTS_TO_AIRPORT_WEST_DITCH</u>;
 - 9. Addenda;
 - 10. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
 - a. Written Amendments;

- b. Work Change Directives;
- c. Change Order(s).
- B. The documents listed in paragraph 9.01.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 9.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in paragraph 3.05 of the General Conditions.

ARTICLE 10 - MISCELLANEOUS

10.01 Terms

A. Terms used in this Agreement will have the meanings indicated in the General Conditions.

10.02 Assignment of Contract

A. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns

A. OWNER and CONTRACTOR each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 Severability

A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon OWNER and CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 Other Provisions

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in duplicate. One counterpart each has been delivered to OWNER and CONTRACTOR. All portions of the Contract Documents have been signed or identified by OWNER and CONTRACTOR or on their behalf.

This Agreement will be effective on,	(which is the Effective Date of the Agreement).
OWNER:	CONTRACTOR:
By:	Ву:
[CORPORATE SEAL]	[CORPORATE SEAL]
Attest	Attest
Address for giving notices:	Address for giving notices:
(If OWNER is a corporation, attach evidence of authority to sign. If OWNER is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of OWNER-CONTRACTOR Agreement.)	License No(Where applicable) Agent for service of process:
	(If CONTRACTOR is a corporation or a partnership, attach evidence of authority to sign.)
Designated Representative:	Designated Representative:
Name:	Name:
Title:	Title:
Address:	Address:
Phone:	Phone:
Facsimile:	Facsimile:

JOB NO. JEF-120 DATE: JUNE 2010

SPECIAL PROVISION NO. 1 TO ITEM NO. T-901

1. Replace Paragraph T-901-2.1 with the following:

901-2.1 SEED The species and application rates of grass, legume, and cover-crop seed furnished shall be those stipulated herein. Seed shall conform to the requirements of Fed. Spec. A-A-2671.

Seed shall be furnished separately or in mixtures in standard containers with the seed name, lot number, net weight, percentages of purity and of germination and hard seed, and percentage of maximum weed seed content clearly marked for each kind of seed. The Contractor shall furnish the Engineer duplicate signed copies of a statement by the vendor certifying that each lot of seed has been tested by a recognized laboratory for seed testing within 6 months of date of delivery. This statement shall include: name and address of laboratory, date of test, lot number for each kind of seed, and the results of tests as to name, percentages of purity and of germination, and percentage of weed content for each kind of seed furnished, and, in case of a mixture, the proportions of each kind of seed.

Seeds shall be applied as follows:

Bermuda grass at a rate of 2.7 lbs. PLS/ac.

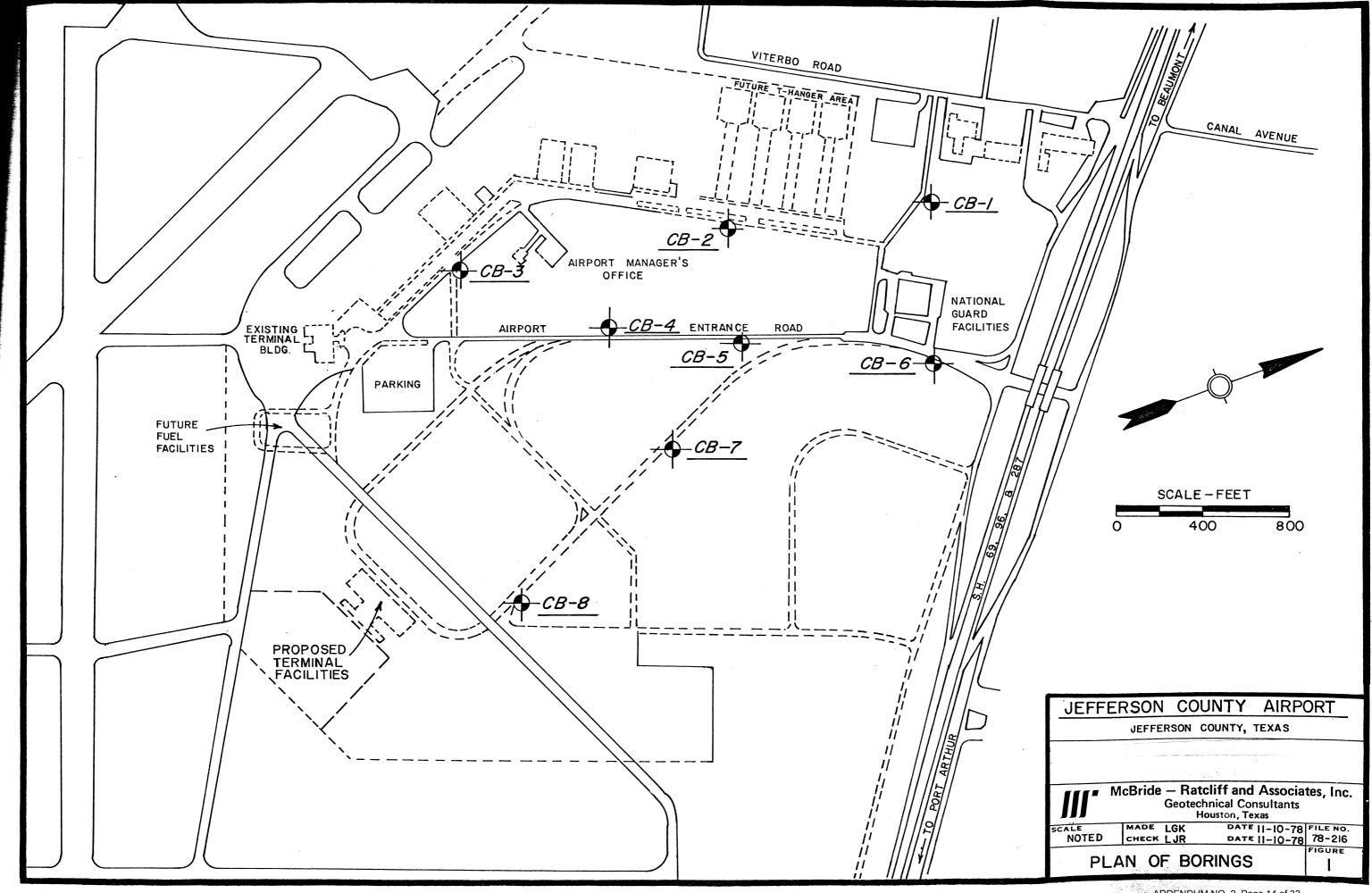
Seeding shall be performed during the period between spring and fall inclusive, unless otherwise approved by the Engineer.

2. Replace <u>Paragraph T-901-5.1</u> with the following:

901-5.1 Payment shall be made at the contract unit price per **acre** or fraction thereof, which price and payment shall be full compensation for furnishing and placing all material and for all labor, equipment, tools, and incidentals necessary to complete the work prescribed in this item.

Payment will be made under:

Item 901-5.1 Seeding, Fertilizer, and Watering per acre



PROJECT:

Water and Wastewater Improvements

Jefferson County Airport

BORING NO. CB-1 FILE NO.78-216 DATE 11/8/78

CLIENT :

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SOIL SYMBOL	DEPTH	(fest)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SQ.FT.)	Compressive Strength (tons/sq.ft.)	Moisture Content (%)	Dry Density (ibs/cu.ft.)	Liquid Limit (%)	Plasticity Index (%)	WASH BORED No free water encountered DESCRIPTION OF STRATUM
			ď							
				4.5+						Very stiff gray, tan & red CLAY (CH)
	-		ł	3.5						with roots stiff tan and red @ 3 ft.
	5		ł	2.0	0.71*	42	76			selli tan ana rea (5 re.
	┝╸	, ,	1	1.5						light gray, tan & red @ 5 ft.
				1 75	0.36*	2.4	0.7			
	<u> </u>		ł	1.75	0.36"	34	87			with ferrous nodules @ 9 ft.
	۲,		┫	1.75						with fellous hounted & 5 le.
		0	1							
				2.25	0.48*	28	92			with calcareous nodules @ 11 ft.
	\vdash		$\ \ $							Bottom @ 12 ft.
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UNDISTURBED STANDARD SAMPLE









*slickensided failure POCKET PENETROMETER- ESTIMATE OF UNCONFINED COMPRESSIVE STRENGTH

PROJECT:

Water and Wastewater Improvements

Tofferen Carry Airport

CLIENT :



F	IELO	DATA	LAB	ORAT	ORY	DATA		DRY AUGERED 0 to 12 ft.
SOIL SYMBOL DEPTH (feet)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SQ.FT.)	Compressive Strength (tons/sq.ft.)	Moisture Content (%)	Dry Density (lbs/cu.ft.)	Liquid Limit (%)	Plasticity index (%)	No free water encountered DESCRIPTION OF STRATUM
M	1	4.5+						Very stiff gray and tan SILTY CLAY (CL) with roots
		3.0	2.48	22	103			Stiff gray and tan CLAY (CH) with silt seams
5	-	1.5 1.5	0.77	27	94			with ferrous nodules @ 7 ft.
		1.75		'				light gray, tan and red with silt
1	0 -	3.0	1.73	26	97			seams and pockets
-1	5 -							Bottom @ 12 ft.



UNDISTURBED STANDARD NO SAMPLE PENETRATION RECOVERY









PROJECT:

Water and Wastewater Improvements

Jefferson County Airport

FILE NO.78-216
DATE 11/8/78

CLIENT :

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	FI	ELI	DATA	LAE	ORAT	ORY	DATA		DRY AUGERED
SOIL SYMBOL	DEPTH (feet)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SO.FT.)	Compressive Strength (tons/sq.ft.)	Moisture Content (%)	Dry Density (lbs/cu.ft.)	Liquid Limit (%)	Plasticity index (%)	
2			2.25						Stiff dark gray SANDY CLAY(CL) "FILL"
			2,•,25		i i	Ì			Delli dalk glay binibi cini (ci) lili
			2.0	1.20	27	92			Stiff gray and tan CLAY (CH)
	- 5	┫	2.5						
		1	2.5	1.13*	25	98			with ferrous and calcareous nodules @ 7 ft.
	- 10		2.0						
	}	▐	3.0	1.56	29	96			
									Bottom @ 12 ft. * slickensided failure

UNDISTURBED STANDARD NO SAMPLE PENETRATION RECOVERY

NO NO

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POCKET PENETROMETER-ESTIMATE OF
UNCONFINED COMPRESSIVE STRENGTH

PROJECT:

Water and Wastewater Improvements

Jefferson County Airport

FILE NO.78-216
DATE 11/8/78

CLIENT :

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1	F	EL	D DATA	LAE	ORAT	ORY	DATA		DRY AUGERED 0 to 12 ft.
SOIL SYMBOL	DEPTH (feet)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SQ.FT.)	Compressive Strength (tons/sq.ft.)	Moisture Content (%)	Dry Density (lbs/cu.ft.)	Liquid Limit (%)	Plasticity index (%)	WASH BORED No free water encountered Seepage into bottom of hole DESCRIPTION OF STRATUM
		1	4.5+						Very stiff red and tan CLAY (CH)
		4	2.5						stiff @ 1 ft.
		1		. 07	25	100			light gray and tan 0 3 ft.
K		1		1.07	25	100			
		1	3.5	-					Stiff light gray and tan SANDY CLAY(CL) with ferrous nodules
			2.0	1.15	22	105			with silt seams and layers and calcareous nodules @ 7 ft.
	10	1	2.0 3.0	1.34	26	98			
	- 15								Bottom @ 12 ft.

SAND

UNDISTURBED STANDARD NO SAMPLE PENETRATION RECOVERY

POCKET PENETROMETER- ESTIMATE OF UNCONFINED COMPRESSIVE STRENGTH

* slickensided failure

PROJECT:

Water and Wastewater Improvements

Jefferson County Airport

BORING NO. CB-5 FILE NO. 78-216 DATE 11/8/78

CLIENT :

_	e:	E 1 1	D DATA	1 40	ORAT	ORY	DATA							
ر ا	-	ELI		LAB	ONAI	OK!			DRY AUGERED 0 to 22 ft.					
SOIL SYMBOL	DEPTH (feet)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SQ.FT.)	Compressive Strength (tons/sq.ft.)	doisture Content (%)	Dry Density (ibs/cu.ft.)	Liquid Limit (%)	Plasticity Index (%)						
	<u> </u>	\mathcal{M}	PO PE						DESCRIPTION OF STRATUM					
		1	4.0						Stiff dark gray and tan SANDY CLAY (CL) with roots					
		1	1.5	0.79	28	92			Stiff light gray and tan CLAY (CH)					
	_ 5		1.75 1.75 2.0	1.28	26	100		,	with calcareous nodules @ 6 ft.					
	10	1	2.5	1.47	25	99			with ferrous nodules and sand pockets @ 11 ft					
	- 15		3.0 3.5	0.98		105			Stiff light gray and tan SANDY CLAY (CL) (wet) with ferrous nodules @ 21 ft.					
13		1							with leffous hoddles & 21 it.					
									### Bottom @ 22 ft. WATERTABLE OBSERVATIONS Depth (ft) Time (min)					

UNDISTURBED STANDARD

SAMPLE



PENETRATION RECOVERY







PROJECT:

Water and Wastewater Improvements Jefferson County Airport

FILE NO.78-216

CLIENT :

BORING NO. CB-6 DATE 11/8/78

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	F	EL	DATA	LAB	ORAT	UKY	DATA		DRY AUGERED 0 to 12 ft.						
SOIL SYMBOL	DEPTH (feet)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SO.FT.)	Compressive Strength (tons/sq.ft.)	Moisture Content (%)	Dry Density (ibs/cu.ft.)	Liquid Limit (%)	Plasticity Index (%)	WASH BORED No free water encountered DESCRIPTION OF STRATUM						
		¥													
			2.0						Stiff tan and gray CLAY (CH)						
			2.0	0.96	27	94			with ferrous and calcareous nodules						
	<u> </u>	-	2.0	0.50	2,	74									
	- 5	1	2.0						light gray and tan @ 5 ft.						
			2.0	0.68*	23	100			slickensided @ 7 ft.						
	10		2.5												
	<u> </u>	-	2.5	0.92*	35 ⁻	88			=						
		П													
		41							·						
	- 15	41							Bottom @ 12 ft.						
		11							·						
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slickensided failure
POCKET PENETROMETER-ESTIMATE OF UNCONFINED COMPRESSIVE STRENGTH

PROJECT:

Water and Wastewater Improvements

Jefferson County Airport

BORING NO. CB-7 FILE NO.78-216 DATE 11/8/78

CLIENT :

	-	511	DATA	LAR	ORAT	ORY	DATA	\	
				LAD					DRY AUGERED 0 to 12 ft.
SOIL SYMBOL	DEPTH (feet)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SO.FT.)	Compressive Strength (tons/sq.ft.)	Moisture Content (%)	Dry Density (ibs/cu.ft.)	Liquid Limit (%)	Plasticity Index (%)	WASH BORED No free water encountered DESCRIPTION OF STRATUM
		1	4.5+						Very stiff dark gray SANDY CLAY (CL) with roots
		1	2.0	1.06	29	91			Stiff tan and red CLAY (CH)
	- 5	1	2.0						light gray and gray
			2.75	1.42	25	101			
	- 10	1	2.75						Stiff light gray and tan SILTY CLAY (CL)
		1	3.0	1.31	25	97			w/clay pockets and silt seams @ 12 ft.
	- 15								Bottom @ 12 ft.

UNDISTURBED STANDARD NO SAMPLE PENETRATION RECOVERY







PROJECT:

Water and Wastewater Improvements

Jefferson County Airport

BORING NO. CB-8 FILE NO.78-216 DATE 11/8/78

CLIENT :

_	FI	FIC	DATA	LAB	ORAT	ORY	DATA		
SOIL SYMBOL	DEPTH (feet)	SAMPLES	PENETRATION RESISTANCE (BLOWS/FOOT) OR POCKET PENETROMETER (TONS/SQ.FT.)	Compressive Strength (tons/sq.ft.)		Dry Density (lbs/cu.ft.)	Liquid Limit (%)	×	DRY AUGERED 0 to 12 ft. WASH BORED No free water encountered DESCRIPTION OF STRATUM
	_ 5		2.5 2.5 2.0 2.0 2.5 2.75	1.04 1.15	28 24 27	95 97 95			Stiff tan and red CLAY (CH) with roots light gray and tan @ 5 ft. with ferrous and calcareous nodules @ 10 ft.
				e					Bottom @ 12 ft.



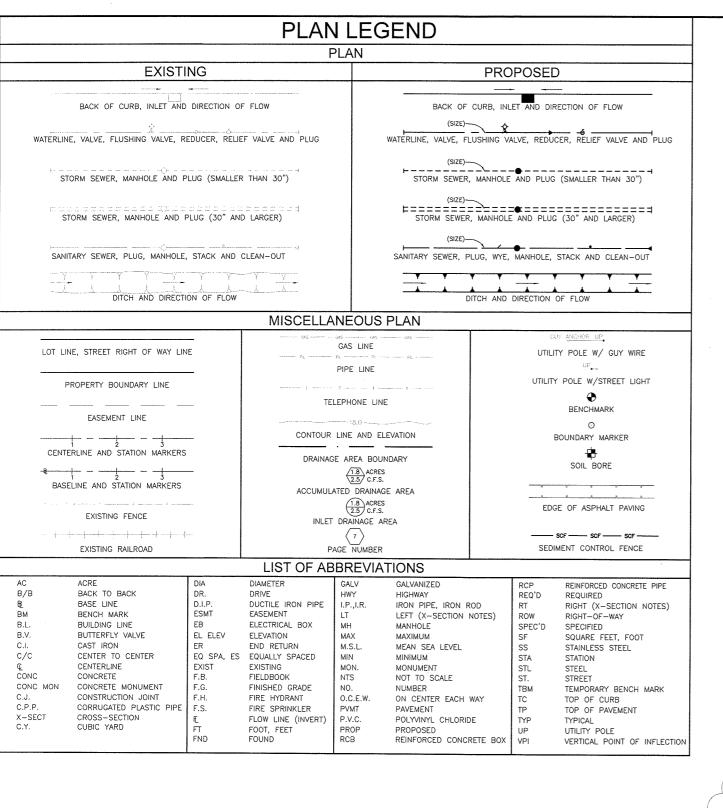












GENERAL CONSTRUCTION NOTES

- 1. ALL ELEVATIONS SHOWN ARE M.S.L. DATUM PLUS 100 FEET.
 2. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES.
 3. SPOIL FROM CONSTRUCTION SHALL BE SPERAD WITHIN PROPERTY LIMITS OR AS DESIGNATED THE BY OWNER IN A MANNER TO PREVENT BONDING FROM RAINFALL AND IN CONFORMANCE WITH THE SITE GRADING PLAN APPROVED BY THE SOUTHEAST IEXAS REGIONAL AIRPORT.
 4. CONTOURS SHOWN INDICATE EXISTING NATURAL GROUND PRIOR TO CLEARING AND CHIERDING.
- AND GRUBBING.

 CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION IN AREA OF POSSIBLE UNDERGROUND UTILITIES WHICH MAY NOT BE SHOWN ON DRAWING.

 CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH EXISTING FACILITIES IN AREA OF CONSTRUCTION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION IN THAT AREA. THE FOLLOWING IS A PARTIAL LIST OF CONTACTS:

TEXAS GAS SERVICE MR. KEITH HARPER 409-963-7110 ENTERGY MR. PHILLIP SCOTT 409-982-5830 SOUTHWESTERN BELL MR HAYWARD GREEN (PORT ARTHUR, GROVES) 409-839-7887 TIME WARNER COMMUNICATIONS MR. HERCEL STRACENER JEFFERSON COUNTY MR. DON RAO ENGINEERING DEPARTMENT 409-835-8584 TEXAS DEPARTMENT OF TRANSPORTATION MR. DUANE BROWNING, PE 409-722-8377 JEFFERSON COUNTY D.D. #7 MR. RALPH MITCHELL 409-985-4369 KINDER MORGAN PIPELINE CO JACK BROOKS REGIONAL AIRPORT MR. DUKE YOUMANS 409-284-1241

1-800-245-4545

1-800-344-8377

STORM SEWER CONSTRUCTION NOTES

TEXAS ONE CALL SYSTEM

DIG-TESS

- ALL RCP STORM SEWER AND LEADS TO BE A.S.T.M., C-76, CLASS III, REINFORCED CONCRETE PIPE, INSTALLED WITH CLASS "A" BEDDING AS SHOWN ON PLANS
- DEDUNING AS SHOWN ON PLANS.
 CONCRETE BOX CULVERT SHALL CONFORM TO ASTM C1433 AND
 MEET THE REQUIREMENTS SET IN ITEM 462 OF THE 2004 TEXAS
 DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR
 CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES. INSTALL
- DESIGNATED SPOIL AREA AS SHOWN ON PROJECT LOCATION MAP.
 ROUGH GRADE SPOIL SO THAT NO WATER WILL POND. NO
 SEPARATE PAY FOR HAULING AND SPREADING.
 CONTRACTOR SHALL USE JEFFERSON COUNTY DRAINAGE DISTRICT
- NO. 7'S PIPE ENTRANCE DRAWING NO. 2007SD-01-501.8 FOR ALL PIPE ENTRANCES ON ALIGNMENT "A" FROM STATION 0+00 TO
- CONTRACTOR SHALL USE JEFFERSON COUNTY DRAINAGE DISTRICT NO. 7'S PIPE ENTRANCE DRAWING NO. 2005SD-08-501.6 FOR ALL PIPE ENTRANCES ON ALIGNMENT "A" FROM STATION 55+50 TO STATION 96+00.
- CONTRACTOR SHALL UTILIZE DRIVEWAY PAVING SECTION SHOWN ON SHEET 24 FOR ALL DRIVEWAY CROSSING LOCATED ON ALIGNMENT
- A.L. CONCRETE WINGWALLS SHALL BE CONSTRUCTED WITH CONCRETE FOOTING AS SHOWN ON SHEET 24.

MISCELLANEOUS CONSTRUCTION NOTES

- THE GRUBBING OF ALL STUMPS WITHIN PROPOSED FASEMENT

- 1. THE GRUBBING OF ALL STUMPS WITHIN PROPOSED EASEMENT SHALL BE REQUIRED.
 2. CONTRACTOR SHALL CLEAR ALL VEGETATION WITHIN AREAS OF EMBANKMENT AND OUTSIDE OF THE PROPOSED EASEMENT TO A MINIMUM OF TWO FEET BELOW FINAL GRADE.
 3. CONTRACTOR SHALL SPREAD ALL CUT UP MATERIALS WITHIN THE AIRPORT ROPERTY AND OUTSIDE OF THE PROPOSED EASEMENT AS DIRECTED BY THE AIRPORT REPRESENTATIVES.
 4. CONTRACTOR SHALL BE ALLOWED UP TO FIVE TEMPORARY GATES AT NO ADDITIONAL COST TO THE AIRPORT. THE GATES CAN BE UP TO TWENTY FEET IN WIDTH AND MATCH THE SPECIFICATIONS OF THE EXISTING GATES. THESE GATES MUST BE CHAINED AND LOCKED AT THE END OF EACH DAY. THE LOCATION OF THE TEMPORARY GATES SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE AIRPORT REPRESENTATIVE.
 5. CONTRACTOR SHALL REMOVE ALL TEMPORARY GATES AND REPAIR THE CHAINLINK FENCE TO ORIGINAL OR BETTER CONDITION AT THE CONCLUSION OF THE PROJECT. THIS INCLUDES REPAIRING DAMAGE TO EXISTING FENCE AND DRAINAGE SWALES DURING CONSTRUCTION.

AIRPORT FENCE CONSTRUCTION NOTES

- POSTS, RAILS, AND BRACES SHALL BE HOT-DIPPED GALVANIZED AND CONFORM TO REQUIREMENTS OF GROUP 1A (SCHEDULE 40) COATINGS CONFORMING TO TYPE A OR GROUP 1C, EXTERNAL COATING TYPE B AND INTERNAL COATING TYPE B OR D.
 LATCH FORKED TYPE 10 PERMIT OPERATION FROM EITHER SIDE, PROVIDING PADLOCK EYE.

 PROPER WIPPER AS EXTENDED AS A CONTROL OF THE PROPERTY OF THE PROP
- 3. BARBED WIRE: 3-2 STRAND 12 1/2 GA. 4P POINT BARBS SPACED
- 5" O.C. GALV.

 STRETCHER BAR: CROSS SECTION 3/16 x 3/4 ONE PIECE
 LENGTHS TO FILL HEIGHT OF FABRIC. PROVIDE ONE BAR FOR
 EACH GATE AND END POST, 2 FOR CORNERS.

 ALL CONCRETE IS TO BE CLASS "A" 3000 PSI CONCRETE.

 MET BAR NO. 5 SMOOTH BAR TO BE PLACED AS LOCKING PIECE
- TO KEEP GATE FROM SWINGING WHEN LOCKED.
 TENSION WIRE TO BE 7GA. MARCELLED GALVANIZED STEEL WIRE.
 CLEARANCE FROM GATES TO FINISHED GRADE TO BE 4".

- CLEARANCE FROM GATES TO FINISHED GRADE TO BE 4".
 CONTRACTOR TO PROVIDE NO. 2 MASTER LOCK, OR EQUAL FOR EACH GATE. ALL LOCKS TO BE KEYED TO A MASTER KEY.
 WHERE FENCE POSTS ARE TO BE INSTALLED IN PAVED AREAS, CONTRACTOR SHALL MAKE NEAT CYLINDRICAL CUTS IN CONCRETE FOR INSTALLING POST ANCHOR FOOTINGS.
 FENCING INDICATED FOR DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OFFSITE. DEMOLITION SHALL INCLUDE REMOVAL OF POSTS, FABRIC RAILS, AND FOOTINGS.

INDEX TO SHEETS

- COVERSHELI
 LEGEND AND CONSTRUCTION NOTES
 PERIMETER SECURITY FENCE GENERAL NOTES
 SUMMARY OF STORM SEWER QUANTITIES SUMMARY OF STORM SEWER QUANTITIES
 SUMMARY OF REMOVAL
 PROJECT LOCATION MAP
 FILL AREA LAYOUT
 CLEARING AND GRUBBING LAYOUT
 EXISTING DITCH FILL LOCATION
 PROPOSED DD7 DRAINAGE EASEMENTS
 PERIMETER SECURITY FENCE AIRPORT SAFETY PLAN
 PROPAGED DITCH A ILEMMENTS

- PERIMETER SECURITY FENCE AIRPORT SAFETY PLAN PROPOSED DITCH ALIGNMENTS ALIGNMENTS ALIGNMENT "A" PLAN AND PROFILE STA. 0+00 TO 7+50 ALIGNMENT "A" PLAN AND PROFILE STA. 7+50 TO 15+50 ALIGNMENT "A" PLAN AND PROFILE STA. 15+50 TO 23+50 ALIGNMENT "A" PLAN AND PROFILE STA. 23+50 TO 31+50 ALIGNMENT "A" PLAN AND PROFILE STA. 31+50 TO 39+50 ALIGNMENT "A" PLAN AND PROFILE STA. 39+50 TO 47+50 ALIGNMENT "A" PLAN AND PROFILE STA. 39+50 TO 47+50 ALIGNMENT "A" PLAN AND PROFILE STA. 47+50 TO 55+50 ALIGNMENT "A" AND PROFILE STA. 47+50 TO 55+50 ALIGNMENT "AND PROFILE STA. 47+50
- ALIGNMENT "A" PLAN AND PROFILE STA. 55+50 TO 63+50 ALIGNMENT "A" PLAN AND PROFILE STA. 63+50 TO 71+50
- ALIGNMENT "A" PLAN AND PROFILE STA. 71+50 TO 79+50 ALIGNMENT "A" PLAN AND PROFILE STA. 79+50 TO 87+50
- ALIGNMENT "A" PLAN AND PROFILE STA. 87+50 TO 95+50
 ALIGNMENT "A" PLAN AND PROFILE STA. 95+50 TO END

- ALIGNMENT "A" PLAN AND PROFILE STA. 95+50 TO END ALIGNMENT "B" PLAN AND PROFILE STA. 0+00 TO 7+50 ALIGNMENT "B" PLAN AND PROFILE STA. 1+50 TO 14+50 ALIGNMENT "B" PLAN AND PROFILE STA. 14+50 TO END ALIGNMENT "C" PLAN AND PROFILE STA. 0+00 TO 7+50 ALIGNMENT "C" PLAN AND PROFILE STA. 7+50 TO 15+50 ALIGNMENT "C" PLAN AND PROFILE STA. 15+50 TO 23+50 ALIGNMENT "C" PLAN AND PROFILE STA. 23+50 TO END ALIGNMENT "C" PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "D" PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "E" PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END ALIGNMENT "F. PLAN AND PROFILE STA. 0+00 TO END "PLAN AND "PLAN AND PROFILE STA. 0+00 TO END "PLAN AND "PLAN AND PROFILE STA. 0+00 TO END "PLA WITH CLASS "A" BEDDING.
 SPOIL FROM CHANNEL EXCAVATION TO BE HAULED AND SPREAD AT
 - 34 ALIGNMENT 16/34 NORTH PLAN AND PROFILE
 35 ALIGNMENT 16/34 SOUTH PLAN AND PROFILE 36 ALIGNMENT 12/30 NORTH PLAN AND PROFILE 37 ALIGNMENT 12/30 SOUTH PLAN AND PROFILE

1

- STORM WATER POLLUTION PREVENTION PLAN
 CONSTRUCTION DETAILS
 DRAINAGE DISTRICT NO. 7 DETAILS
- 41-66 DITCH CROSS SECTIONS
- DITCH CRUSS SECTIONS
 TEMPORARY EROSION SEDIMENT AND WATER POLLUTION CONTROL MEASUREMENTS
 CONCRETE WINGWALLS WITH FLARED WINGS FOR 0' SKEW BOX CULVERTS
 CONCRETE WINGWALLS WITH PARALLEL WINGS FOR SKEWED AND NON-SKEWED BOX



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JEFFERSON COUNTY, TEXAS

IMPROVEMENT
ONAL AIRPORT

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TEXAS REGISTERED ENGINEERING FIRM F-30 *

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> Consulting Engi

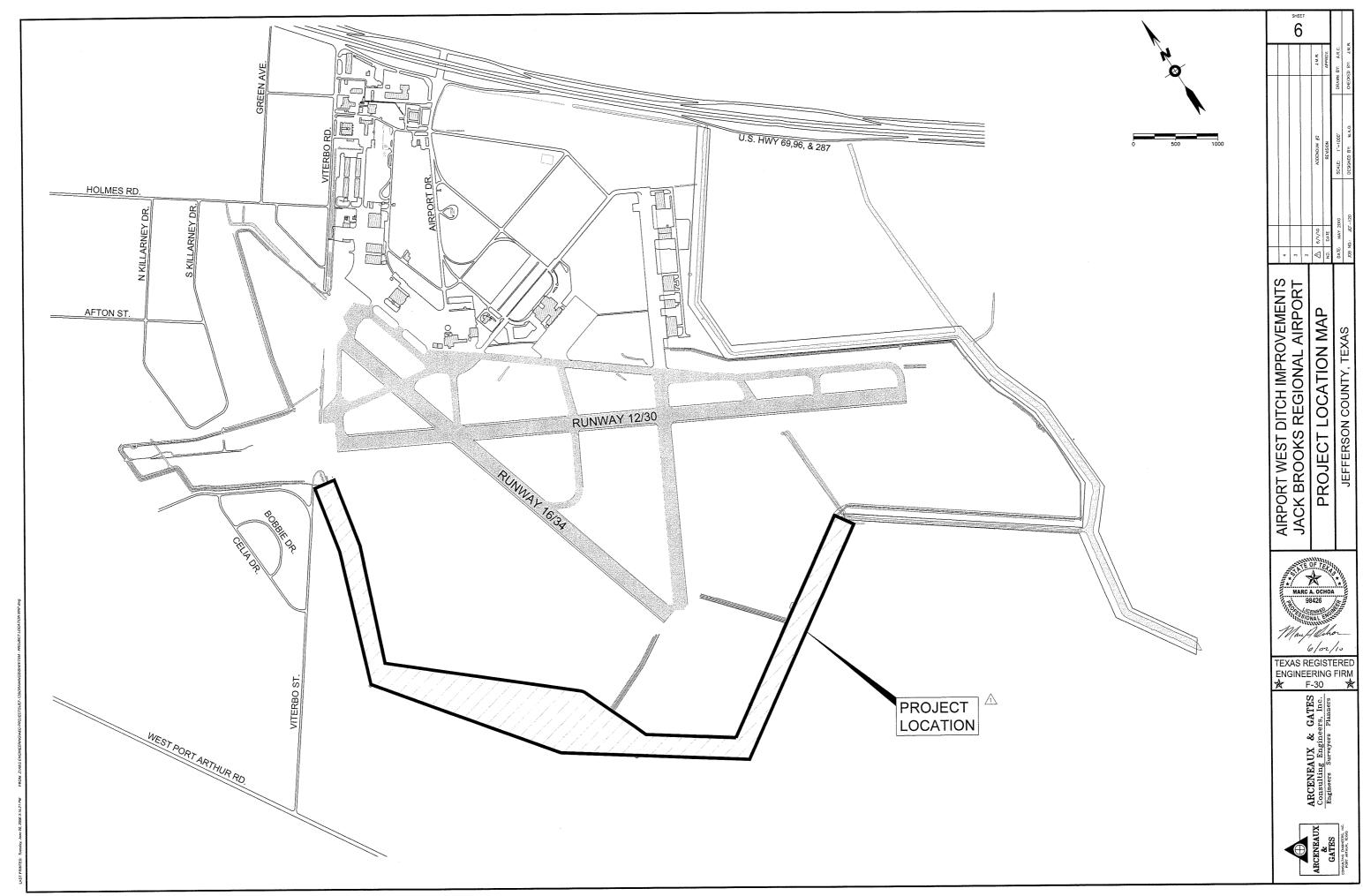


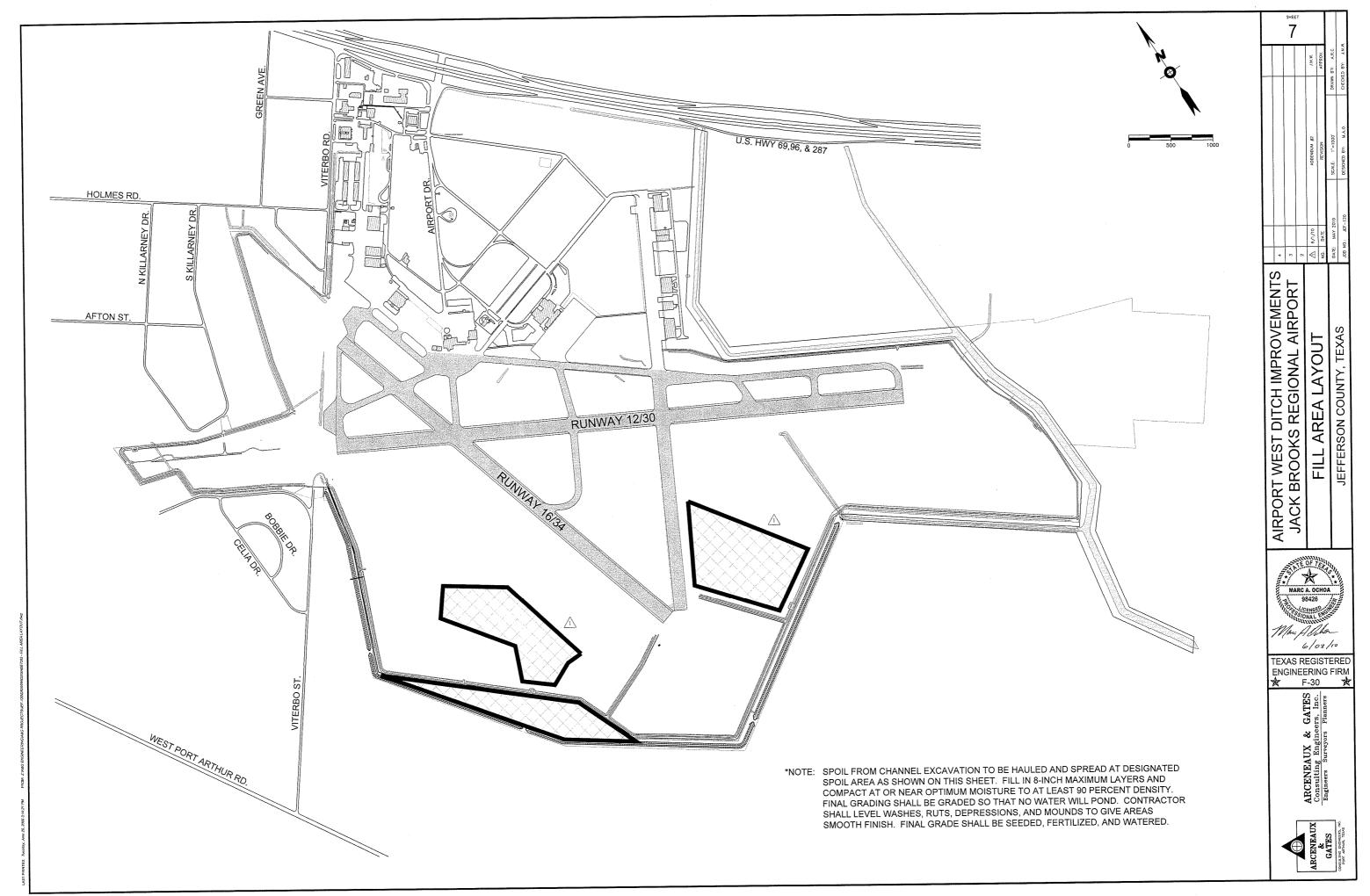
A CONTRACTOR OF THE PARTY OF TH	A CONTRACTOR OF THE PROPERTY O			10.00	.,	SUM	MARY O	F STOF	RM SEV	VER Q	UANTI	TIES								
ALIGNMENT	SHEET NUMBE R	STATION TO STATION	EXCAV	EMBAN K	REPL PRMTR RD	CL FEN W/ BW	DRVWAYS	CONC W-WALL W/ PW	CONC W-WALL W/ FW	4" CONC RIPRAP	REINF CONC BOX (12'x6')	REINF CONC BOX (12'x5')	REINF CONC BOX (8'x5')	REINF CONC BOX (7'x5')	REINF CONC BOX (5'x5')	RC PIPE (CL III) (30')	RC PIPE (CL III) (24')	RC PIPE (CL III) (18')	SADDLE INLET	GRATE INLET
	K		(C.Y.)	(C.Y.)	(S.Y.)	(L.F.)	(S.Y.)	(EACH)	(EACH)	(C.Y.)	(L.F.)	(L.F.)	(L.F.)	(L.F.)	(L.F.)	(L.F.)	(L.F.)	(L.F.)	(EACH)	(EACH)
	12	Sta. 0+00 to 7+50	2,047	1,381			578	1	1		60							74		
	13	Sta. 7+50 to 15+50	3,143	1,870																
	14	Sta. 15+50 to 23+50	3,079	2,229	38															
	15	Sta. 23+50 to 31+50	2,286	2,820			509					30						166		
	16	Sta. 31+50 to 39+50	1,872	3,675														79		
	17	Sta. 39+50 to 47+50	5,993	966													74			
	18	Sta. 47+50 to 55+50	10,613	0			390							40						
"A"	19	Sta. 55+50 to 63+50	9,729	0																
	20	Sta. 63+50 to 71+50	7,404	733																
	21	Sta. 71+50 to 79+50	2,875	1,137		680	321						30				64	-		
	22	Sta. 79+50 to 87+50	2,893	1,134		800												141		
	23	Sta, 87+50 to 95+50		619		810												59		
	24	Sta. 95+50 to 97+01		131	*	277			4						30					1
		ment "A" Total	54,981	16,695	38	2,567	1,798	1	5	0	60	30	30	40	30	0	138	519	0	1
	25	Sta. 0+00 to 7+50												1,581						1
	26	Sta. 7+50 to 14+50																	1	
	27	Sta. 14+50 to 15+93																		
"B"		ment "B" Total	0	0		0	0	0	0	0	0	0	0	1,581	0	0	0	0	1	1
	28	Sta. 0+00 to 7+50	19	2,980 🗥	<u> </u>															
	29	Sta. 7+50 to 15+50	22	3,175 🗥	4															
	30	Sta. 15+50 to 23+50	36	3,175 🗥	\$															
"C"	31	Sta. 23+50 to End	23	2,385 🗥	7															
	Align	ment "C" Total	100	11,715 🗥	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	32	Sta. 0+00 to End								4						289				
"D"	Align	ment "D" Total	0	0		0	0	0	0	4	0	0	0	0	0	289	0	0	0	0
ne.	33	Sta. 0+00 to End								3	-					156				
"E"	Align	ment "E" Total	0	0		0	0	0	0	3	0	0	0	0	0	156	0	0	0	0
"16/34 N"	34	Sta. 0+00 to End		0									_					0	0	0
10/34 11	Alignment	"16/34 North" Total	0	0		0	0	0	0	0	0	0	0	0	0	0	0	U	0	0
"16/34 S"	35	Sta. 0+00 to End		0						_	<u> </u>	+ _			0	0	0	0	0	0
10,0 7 0		"16/34 South" Total	0	0		0	0	0	0	0	0	0	0	0	0	U	J	-		
"12/30 N"	36	Sta. 0+00 to End		0								0	0	0	0	0	0	0	0	0
		: "12/30 North" Total	0	0		0	0	0	0	0	0	U	U	U	0					
"12/30 S"	37	Sta. 0+00 to End		0					0	0	0	0	0	0	0	0	0	0	0	0
	Alignment	"12/30 South" Total	0	0		0	0	0	U	U										
	TOTAL		55,081	28,410	38	2,567	1,798	1	5	7	60	30	30	1,621	30	445	138	519	1	2

			SUMMA	RY OF F	REMOVA	\L			
ALIGNMENT	SHEET NUMBER	STATION TO STATION	REMV OF FEN	REMV PRMTR RD	REMV RC PIPE (48")	REMV RC PIPE (36")	REMV RC PIPE (24")	REMV RC PIPE (18")	REMV EXIST STM INLET
			(L.F.)	(S.Y.)	(L.F.)	(L.F.)	(L.F.)	(L.F.)	(EACH)
	12	Sta. 0+00 to 7+50			74			44	
	13	Sta. 7+50 to 15+50							
	14	Sta. 15+50 to 23+50		38		1,372			
	15	Sta. 23+50 to 31+50						31	
	16	Sta. 31+50 to 39+50	-					45	
	17	Sta. 39+50 to 47+50	The second secon					72	
	18	Sta. 47+50 to 55+50	The state of the s						
"A"	19	Sta. 55+50 to 63+50	or o		en and an and an	-			***
	20	Sta. 63+50 to 71+50	- Company of the Comp						
	21	Sta. 75+00 to 79+50	1,244					28	
	22	Sta. 79+50 to 87+50	1,600					84	
	23	Sta. 87+50 to 95+50	1,620					42	
	24	Sta. 95+50 to 97+01	212						
	Alig	nment "A" Total	4,676	38	74	1,372	0	346	0
	25	Sta. 0+00 to 7+50				1,372			1
	26	Sta. 7+50 to 14+50			No. of the latest section of the latest sect				
"B"	27	Sta. 14+50 to 15+93							
	Alig	nment "B" Total	0	0	0	1,372	0	0	1
201000000000000000000000000000000000000	28	Sta. 0+00 to 7+50			22 🕦				
	29	Sta. 7+50 to 15+50			39 🛕				
"C"	30	Sta. 15+50 to 23+50						32 🛕	
	31	Sta. 23+50 to End					50 🔨		
	Alig	nment "C" Total	0	0	61 🗥	0	50 🔨	32 🕦	0
	32	Sta. 0+00 to End			The state of the s	-			
"D"	Alig	nment "D" Total	0	0	0	0	0	0	0
	33	Sta. 0+00 to End					25		
"E"	Alig	nment "E" Total	0	0	0	0	25	0	0
	34	Sta. 0+00 to End							
"16/34 N"	Alignmer	nt "16/34 North" Total	0	0	0	0	0	0	0
	35	Sta. 0+00 to End							
"16/34 S"	Alignmen	nt "16/34 South" Total	0	0	0	0	0	0	0
	36	Sta. 0+00 to End							
"12/30 N"	Alignmer	nt "12/30 North" Total	0	0	0	0	0	0	0
	37	Sta. 0+00 to End						4") PIPE (18") (L.F.) 44 31 45 72 28 84 42 346 0 0 0 0 0 0 0	
"12/30 S"	Alignmer	nt "12/30 South" Total	0	0	0	0	0	0	0
	TOTAL		4,676	38	135 🔨	2,744	75 🔨	378 🛕	1

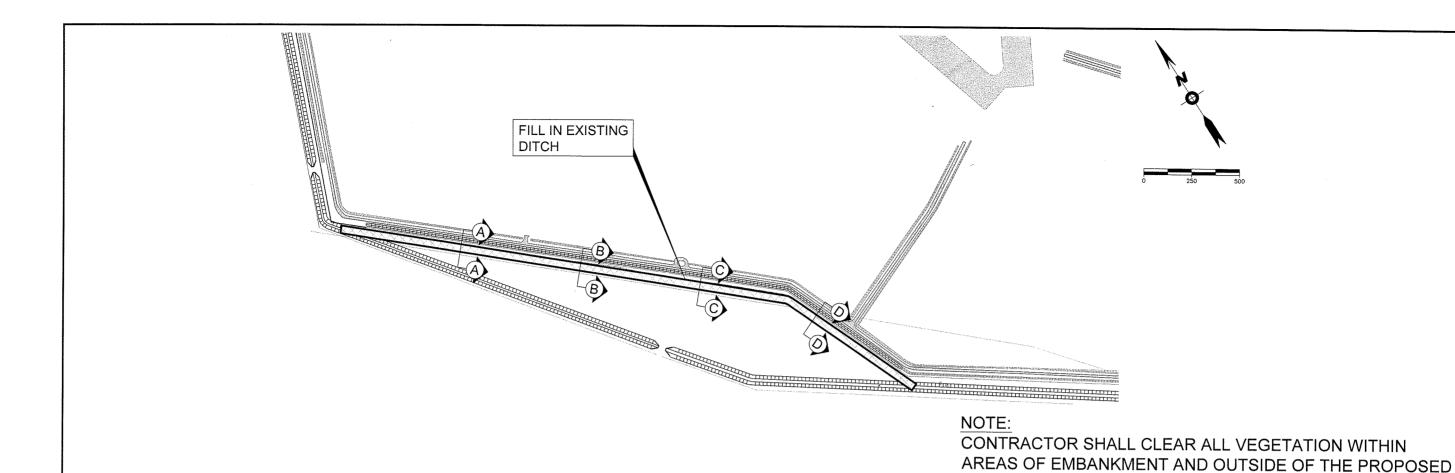
SUMMARY OF MICELLANEOUS								
DESCRIPTION	UNIT	QUANTITY						
FERTILIZING	AC.	82 🔨						
VEG WATERING	AC.	82 🛆						
TEMP DAMS	EACH	8						
PERM BRDCST SEEDING (WET APP)	AC.	82 🗥						
MOBILIZATION	L.S.	1						





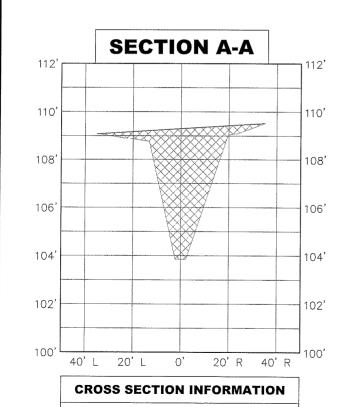






SCALE: H. 1"=80' V. 1"=8'

EASEMENT TO A MINIMUM OF TWO FEET BELOW FINAL

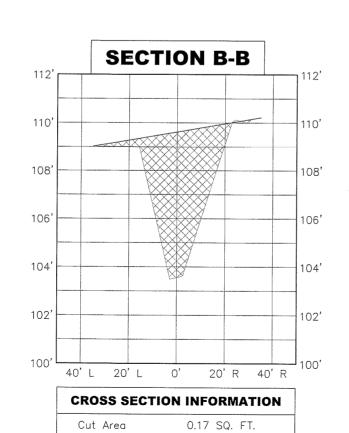


0.00 SQ. FT.

116.63 SQ. FT.

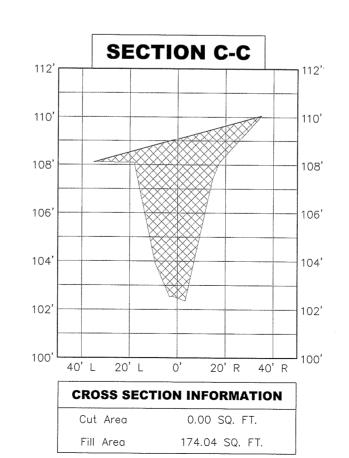
Cut Area

Fill Area

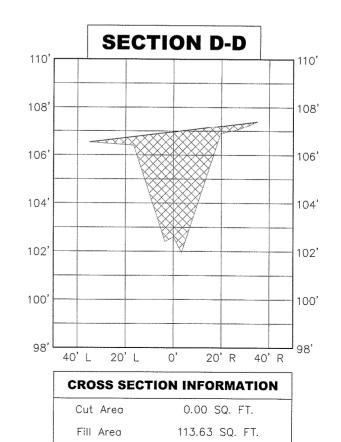


139.06 SQ. FT.

Fill Area



GRADE.





JEFFERSON COUNTY, TEXAS

7B

