MONSANTO — TEXAS CITY

Rolled Sketch
File No. 28
Galveston County
1858 Shoreline - Texas City
As agreed by G.L.O. & Landowners
Filed 7-28- 19 77
BOB ARMSTRONG, Com'r
By James E. McCarty

counter 45093

D-614

CHAS. R. HAILE ASSOCIATES, INC. consulting engineers

819 Ninth Avenue North

P.O. Box 2179 • Texas City, Texas 77590

AC—713—945-3456
Houston Line—AC—713—488-0874

April 10, 1978

Mr. W. Tee Hawes
#5 Chimney Corners
La Marque, Texas 77568

Re: Job No. 2-77-5(81) and
Job No. 2-77-5(81)A

Dear Mr. Hawes:

Enclosed are copies of our field notes and computations to establish the base line necessary for locating the original survey lines in the Monsanto - Texas City Terminal area.

Since we did all of these computations by computer, we do not have any "D.M.D. Sheets". As you can see, We have used the Lambert Coordinate System as established by Corps of Engineers monuments. If there are any changes, or corrections that you feel necessary, please inform us at your earliest convenience.

Very truly yours,

ROBERT ADAMS
Surveyor

RA:rkp
Encls.

cc w/Encls: Mr. Bill Wimberly
Mr. Herman Forbes

cc: Chas. R. Haile Assoc., Inc. - Houston

counter 45130

D-885

A survey to determine the location of a portion of the West shoreline of Galveston Bay as it existed in 1850, same shoreline being the East boundary of the Sylvester Bowen Survey, Patent #47, Vol. 8, No. 1.5 on the County Maps the John Grant Survey, Patent #552, Vol. 6, No. 1.14 on the County Maps; the George Preacher Survey #3.16 on the County Maps, recorded by the County Surveyor in Book "F", Page 545; and a portion of the H. B. Littlefield Survey, Headright Certificate No. 1275/1377, No. 20 on the County Maps, in the County Surveyors Record Book "A", Page 78; all in Galveston County, Texas, being North forty-five (45) degrees West and 14,750 varas distant from said County Seat.

This survey was done at the request of the adjoining land owner, the Texas City Terminal Railway Company in order to determine their East boundary.

The original shoreline has been totally obliterated by erosion, filling, and dredging, so conventional methods could not be used.

With permission of the General Land Office, we established a base line near the existing shoreline, based on monumentation established by Boyles in 1965 and existing U.S.C. & G.S. triangulation stations established in 1960 and used by Boyles. This base line was given Texas Plane Coordinate System values for ease of calculation and coordination. Lambert North Magnetic Declanation is ten (10) degrees, twenty-nine (29) minutes.

Using aerial photography this base line was digitally plotted on a photo positive.

From the National Archives we obtained a copy of a coastal map made in 1848 - 52. This shoreline was then digitally plotted on the same photo positive, after orienting latitude and longitude of the 1852 map to the Texas Plane Coordinate System. The Texas Plane Coordinate System grid was also plotted on the photo positive, all of the above was done on a scale of 1" = 200'.

We then visually determined the points of intersection along the meanders of the shoreline and established their coordinate values by scale distance from the grid lines.

By computation we generated the following field notes.

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being 1,759.92 Vs East of the Northwest corner of the Sylvester Bowen Survey.

THENCE: Following the meanders of the shoreline as follows:
South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of nineteen and eight one-hundredths (19.08) Vs;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of two hundred nineteen and sixty-four one-hundredths (219.64) Vs;

G'

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY
July 23, 1979

counter 45131

D-885

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds a distance of seventy-five and ninety-three one-hundredths (75.93) Vs to a Point of Beginning in the East line of the Sylvester Bowen Survey;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East, at one hundred ninety-four and thirty-seven one-hundredths (194.37) Vs passing the Southeast corner of the Sylvester Bowen Survey, same being the most easterly Northeast corner of the John Grant Survey, in all a distance of two hundred forty-one and thirty-six one-hundredths (241.36) Vs;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of four hundred twelve and fourteen one-hundredths (412.14) Vs;

South twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds East, at forty and fifty-eight one-hundredths (40.58) Vs passing the Southeast corner of the John Grant Survey, same being the Northeast corner of the George Preacher Survey, in all a distance of two hundred seventeen and fourteen one-hundredths (217.14) Vs;

South eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds East a distance of four hundred eighty and nineteen one-hundredths (480.19) Vs;

South fifteen (15) degrees, eighteen (18) minutes, twenty-two (22) seconds East a distance of one hundred seventy-seven and twenty-nine one-hundredths (177.29) Vs;

South eleven (11) degrees, forty-two (42) minutes, ten (10) seconds East a distance of one hundred fifty-four and forty-one one-hundredths (154.41) Vs;

South one (01) degree, three (03) minutes, thirty-six (36) seconds West a distance of thirty-eight and eighty-nine one-hundredths (38.89) Vs;

South forty-two (42) degrees, thirty-six (36) minutes, fifty (50) seconds East, at fifteen and thirty-six one-hundredths (15.36) Vs passing the Southeast corner of the George Preacher Survey, same being the Northeast corner of the H. B. Littlefield Survey, in all a distance of sixty-one and fifteen one-hundredths (61.15) Vs;

South twelve (12) degrees, fifty-two (52) minutes, thirty (30) seconds West a distance of sixty-four and sixty-two one-hundredths (64.62) Vs;

South thirteen (13) degrees, twenty-three (23) minutes, thirty-three (33) seconds East a distance of seventy-seven and seventy-one one-hundredths (77.71) Vs;

G2

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY
Job No. 2-77-5(81)

Counter 45132

South thirty-five (35) degrees, thirteen (13) minutes, three (03) seconds East a distance of sixty-one and eight tenths (61.8) Vs. to its point of intersection with the South property line of the Texas City Terminal Railway Company.

STATE OF TEXAS I

COUNTY OF GALVESTON I

I, W. T. HAWES, State Licensed Land Surveyor, of the said County swear the above survey was done under my direct supervision according to law and the same was done in February, 1979.

W. T. HAWES
Licensed State Land Surveyor

LICENSED STATE LAND SURVEYOR TEXAS

Chain Carriers:

R. M. Byers
Eugene Redden

counter 45133

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

G3

D Rolled Sketch

File No. 28

Galveston County

Survey to determine 1850 shoreline

Filed 7-28- 1979

BOB ARMSTRONG, Com'r

By James E. McCarty

COUNTER 82269

Texas City

A traverse to determine the location of the original east lines of the James B. Wells, Norman Hurd, Sylvester Bowen, John Grant, George Preacher and the H.B. Littlefield Surveys;

This traverse has been established by using the original call distances given in the original land grants; however, the bearings have been adjusted to the Texas Plane Coordinate System to facilitate tie-ins with known monumentation.

We traversed as follows:

BEGINNING: At an iron rod that is south zero (00) degrees, twenty-five (25) minutes west (original call) a distance of fifty and four tenths (50.4) feet from the location of a concrete monument (now destroyed) and being located by subdivision plat of record in Volume 254A, Page 6-A in the office of the County Clerk of Galveston County, Texas and marking the southwest corner of the James B. Wells Survey, same being the most northerly west corner of the John Grant Survey;

THENCE: South two (02) degrees, twenty-four (24) minutes, fifty-eight (58) seconds east a distance of fifty (50) feet to a point in the centerline of Texas Avenue, said right-of-way having been deeded to the County of Galveston by Deed of Record in Book 176, Page 198 and the location of said centerline having been established by Deed of Record in Book 196, Page 164;

THENCE: North eighty-seven (87) degrees, thirty-five (35) minutes, two (02) seconds east along the centerline of Texas Avenue a distance of ten thousand seven hundred fifty-five and sixty-two one-hundredths (10,755.62) feet to a point in the east line of the Texas City First Division, said point being south zero (00) degrees, one (01) minute, fifty-eight (58) seconds east a distance of twenty-eight and forty-four one-hundredths (28.44) feet from the south line of the James B. Wells Survey and having the following coordinates: X = 3307,541.278; Y = 586,712.997;

THENCE: (Using Corps of Engineers Monuments #R4-2, R4-3 and R4-4 established in 1965 in the old Texas City Seawall for reference) south zero (00) degrees, fifty-three (53) minutes, fifty-one (51) seconds east a distance of one thousand eighty-four and ninety-one one-hundredths (1983.91) feet to a point;

THENCE: South zero (0) degrees, forty (40) minutes, seventeen (17) seconds east a distance of nine hundred sixty-four and seventy-three one-hundredths (964.73) feet to a point;

THENCE: South one (01) degree, forty-four (44) minutes, twenty-four (24) seconds east a distance of one thousand one hundred ninety-nine and eleven one-hundredths (1,199.11) feet to a point;

THENCE: South seven (07) degrees, thirty-three (33) minutes, thirty-four (34) seconds west a distance of three hundred ninety-four and twenty-nine one-hundredths (394.29) feet to a found monument with a 4" brass plate, coordinates being X = 3307,537.106; Y = 584,158.723;

THENCE: South zero (00) degrees, fifty-eight (58) minutes, twenty-three (23) seconds east a distance of five hundred fifty-eight and forty-eight one-hundredths (558.48) feet to a nail and cap for a point having a coordinate of X = 3307,546.589; Y = 583,600.313;

THENCE: South seven (07) degrees, thirty-nine (39) minutes, thirteen (13) seconds east a distance of one thousand nine hundred seventy-seven and four one-hundredths (1,977.04) feet to a nail and cap set in the centerline of the Corps of Engineers earthen seawall having a coordinate of X = 3307,809.899; Y = 581,640.886;

counter 45128

F'

THENCE: South zero (00) degrees, thirty-eight (38) minutes, ten (10) seconds west a distance of nine hundred twenty-five and seventy-seven one-hundredths (925.77) feet to a railroad spike having a coordinate of X = 3307,799.681; Y = 580,715.173;

THENCE: South two (02) degrees, thirty-two (32) minutes, twenty (20) seconds west a distance of one thousand one hundred ninety-eight and fourteen one-hundredths (1,198.14) feet to a point;

Then, triangulating from these last two points, we closed to the Wah Chang Stack (X = 3292,477.46; Y = 576,562.79), foresight distances being fifteen thousand eight hundred sixty-one and thirteen one-hundredths (15,861.13) feet and fifteen thousand six hundred one and fifty-six one-hundredths (15,601.56) feet (computer) with an error of closure being zero (00) degrees, zero (00) minutes, fifty-one (51) seconds angular and forty-one one-hundredths (0.41) feet in distance;

The above traverse is roughly parallel to the original called survey line.

By bearing - bearing computation we established from our coordinate X = 3,307,541.278; Y = 586,712.997 the coordinate where the south line of the James B. Wells Survey crosses the east line of the Texas City First Division (X = 3307,540.079; Y = 586,741.412), the south line of the James B. Wells Survey has a geographical bearing of south eighty-nine (89) degrees, thirty-seven (37) minutes east as occupied in relation to its north and west lines. From this point, using the original land grant call distances with the north-south call being converted to Lambert, we established the coordinate values as follows:

Southeast corner of James B. Wells Survey:	X = 3308201.579 Y = 586,741.790
Southeast corner of the Norman Hurd Survey:	X = 3308,262.374 Y = 585,352.900
Southeast corner of the Sylvester Bowen Survey:	X = 3308,203.168 Y = 583,964.010
Southeast corner of the John Grant Survey:	X = 3308,012.293 Y = 582,575.011
Southeast corner of the George Preacher Survey:	X = 3308,721.331 Y = 579,793.118

I hereby certify the above work was done by me under the supervision of W. Tee Hawes, County Surveyor.

STATE OF TEXAS
ROBERT ADAMS
1002
REGISTERED PUBLIC SURVEYOR

Robert Adams
ROBERT ADAMS
Registered Public Surveyor No. 1002

I hereby certify the above work was done under my supervision.

May 2, 1978

W. Tee Hawes
W. TEE HAWES
Galveston County Surveyor

counter 45129

F2

COUNTER 87248

Page 28

File No. 28 County Galveston

Traverse to determine subdivision lines

Filed 7-28- 19 77

BOB ARMSTRONG, Com'r.

By _____

THENCE: South zero (00) degrees, fifty-eight (58) minutes, eighty-nine (89) seconds West a distance of nine hundred twenty-five and seventy-hundredths (925.70) feet to a railroad spike marking a coordinate of X = 3308,[illegible].00 Y = 282,975.082;

THENCE: South two (02) degrees, fifty-two (52) minutes, twenty (20) seconds West a distance of one thousand one hundred nine-ty-eight and two-hundredths (1,198.02) feet to a point;

Then, from these last two points, we closed to the Walk Chand Check (X = 3525,414.48; Y = 278,582.61), forescribe distances being fifteen thousand eight hundred six-ty-one and fifteen one-hundredths (15,861.15) feet and fifteen thousand six hundred one and fifty-six one-hundredths (15,601.56) feet (combined) with an error of closure being zero (00) degrees, zero (00) minutes, fifty-one (51) seconds and four-one one-hundredths (0.04) feet in distance;

The above traverse is tondmly bargified to the original called survey line.

By bearing - bearing combnfgation we esfablifshed from our coordinate X = 3,301,241.518; Y = 282,512.996 the coordinate where the south line of the James B. Wells Survey crosses the east line of the Texas City Ferry Division (X = 3301,240.7010; Y = 278,582.181), the south line of James B. Wells Survey has a geographical bearing of south eighty-nine (89) degrees, fifty-seven (57) minutes east as occupied in relation to its north and west lines. From this point, using the original land grant call distances with the north-south call being converted to Lambert, we esfablifshed the coordinate values as follows:

Southeast corner of James B. Wells Survey: X = 3308,102.512
Y = 282,181.382

Southeast corner of the Norman Hurd Survey: X = 3308,505.141
Y = 282,325.009

Southeast corner of the John Grant Survey: X = 3308,510.593
Y = 283,459.010

Southeast corner of the Sylvester Bowen Survey: X = 3308,503.198
Y = 283,896.010

I hereby certify the above work was done by me under the supervision of W. Lee Hames, County Surveyor.

W. LEE HAMES
Galveston County Surveyor

May 2, 1978

I hereby certify the above work was done under my supervision.

ROBERT ADAMS
Registered Public Surveyor No. 1005



D-885

TRACT #1

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point bine the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey, and having Lambert coordinates of North 585,326.88, East 3307,585.65;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of one thousand one hundred forty-four and eighty-four one-hundredths (1144.84) feet;

South twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds East a distance of six hundred three and eighteen one-hundredths (603.18) feet;

South eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds East a distance of one thousand three hundred thirty-three and eighty-five one-hundredths (1333.85) feet;

South fifteen (15) degrees, eighteen (18) minutes, twenty-two (22) seconds East a distance of four hundred ninety-two and forty-seven one-hundredths (492.47) feet;

South eleven (11) degrees, forty-two (42) minutes, ten (10) seconds East a distance of four hundred twenty-eight and ninety-two one-hundredths (428.92) feet;

South one (01) degree, three (03) minutes, thirty-six (36) seconds West a distance of seventy-six and eighty-eight one-hundredths (76.88) feet to the Point of Beginning;

THENCE: North sixty-six (66) degrees, fifty-eight (58) minutes, forty-one (41) seconds East a distance of six hundred thirty-two

D'

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

counter 45094

Job No. 2-77-5(81)
July 16, 1979

and eleven one-hundredths (632.11) feet to a point for corner on the U.S. Harbor line;

THENCE: Following the Harbor line along the arc of a curve having a radius of one thousand six hundred seventy-five (1675.00) feet, a delta of twenty-four (24) degrees, forty-four (44) minutes, nine (09) seconds, a length of seven hundred twenty-three and thirteen one-hundredths (723.13) feet, a chord bearing of South forty-three (43) degrees, thirty-one (31) minutes, six (06) seconds West, and a chord length of seven hundred seventeen and fifty-three one-hundredths (717.53) feet to a point for corner on the 1850 shoreline;

THENCE: Along the shoreline North twelve (12) degrees, fifty-two (52) minutes, thirty (30) seconds East a distance of one hundred twenty (120.0) feet to a point for corner;

THENCE: Along the shoreline North forty-two (42) degrees, thirty-six (36) minutes, fifty (50) seconds West a distance of one hundred sixty-nine and eighty-five one-hundredths (169.85) feet to a point for corner;

THENCE: Along the shoreline North one (01) degree, three (03) minutes, thirty-six (36) seconds East a distance of thirty-one and fourteen one-hundredths (31.14) feet to the Point of Beginning.

Said tract contains 101,967 square feet, More or Less

101,965 ± FT.
2.3408 AC.

F/N OK
8-3-79
BM

D2

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

Counter 45095

D-885

TRACT #2&3

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey, and having Lambert coordinates of North 585,326.88 East 3307,585.65;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of one thousand one hundred forty-four and eighty-four one-hundredths (1144.84) feet;

South twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds East a distance of six hundred three and eighteen one-hundredths (603.18) feet;

South eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds East a distance of one thousand three hundred thirty-three and eighty-five one-hundredths (1333.85) feet;

South fifteen (15) degrees, eighteen (18) minutes, twenty-two (22) seconds East a distance of two hundred eighty (280.0) feet to the Point of Beginning;

THENCE: North sixty-six (66) degrees, fifty-eight (58) minutes, forty-one (41) seconds East a distance of seven hundred forty-seven and seventy-two one-hundredths (747.72) feet to a point for corner on the U. S. Harbor line;

THENCE: Along the Harbor line South five (05) degrees, thirty-six (36) minutes, twenty-three (23) seconds East a distance of six hundred ninety-four and six one-hundredths (694.06) feet to a point for corner;

D3

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

Job No. 2-77-5(81)

counter 45096

THENCE: Following the Harbor line along the arc of a curve having a radius of one thousand six hundred seventy-five (1675.0) feet; a delta of two (02) degrees, thirteen (13) minutes, twenty-five (25) seconds a distance of sixty-five and one one-hundredth (65.01) feet; a chord bearing of South thirty (30) degrees, two (02) minutes, thirty-seven (37) seconds West and a chord length of sixty-five (65.0) feet to a point for corner;

THENCE: South sixty-six (66) degrees, fifty-eight (58) minutes, forty-one (41) seconds West a distance of six hundred thirty-two and eleven one-hundredths (632.11) feet to a point for corner on the 1850 shoreline;

THENCE: Along the shoreline North one (01) degree, three (03) minutes, thirty-six (36) seconds East a distance of seventy-six and eighty-eight one-hundredths (76.88) feet to a point for corner;

THENCE: Along the shoreline North eleven (11) degrees, forty-two (42) minutes, ten (10) seconds West a distance of four hundred twenty-eight and ninety-two one-hundredths (428.92) feet to a point for corner;

THENCE: North fifteen (15) degrees, eighteen (18) minutes, twenty-two (22) seconds West a distance of two hundred twelve and forty-seven (212.47) feet to the Point of Beginning.

Said tract contains 488,192 gross square feet, More or Less

Dock area is 6781 square feet, More or Less.

488200 sq ft.
11.2025 AC

F/NS OK
8-3-79
RVM

counter 45097

D4

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D-885

TRACT #4

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the north line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of one thousand one hundred forty-four and eighty-four one-hundredths (1144.84) feet;

South twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds East a distance of six hundred three and eighteen one-hundredths (603.18) feet;

South eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds East a distance of one thousand one hundred forty-one and sixty-one one-hundredths (1141.61) feet to the Point of Beginning;

THENCE: North eighty-six (86) degrees, seven (07) minutes, thirty-four (34) seconds East a distance of eight hundred three and forty one-hundredths (803.40) feet to a point for corner on the U. S. Harbor line;

THENCE: South five (05) degrees, thirty-six (36) minutes, twenty-three (23) seconds East a distance of two hundred fifteen and forty-two one-hundredths (215.42) feet to a point for corner;

THENCE: South sixty-six (66) degrees, fifty-eight (58) minutes, forty-one (41) seconds West a distance of seven hundred forty-seven and seventy-two one-hundredths (747.72) feet to a point for corner on the 1850 shoreline;

D5

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

counter 75098

THENCE: Along the shoreline North fifteen (15) degrees, eighteen (18) minutes, twenty-two (22) seconds West a distance of two hundred eighty (280.0) feet to a point for corner;

THENCE: Along the shoreline North eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds West a distance of one hundred ninety-two and twenty-four one-hundredths (192.24) feet to the Point of Beginning.

Said tract contains 260,430 square feet, More or Less.

260425 sq ft
5.9785 Ac.

P/NSOL
8-3-79
RVM

counter 75099

D6

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY
Job No. 2-77-5(81)

D-885

TRACT #5

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of one thousand one hundred forty-four and eighty-four one-hundredths (1144.84) feet;

South twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds East a distance of six hundred three and eighteen one-hundredths (603.18) feet;

South eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds East a distance of five hundred seventy-one (571.0) feet to the Point of Beginning;

THENCE: North eighty-nine (89) degrees, forty-five (45) minutes, forty-eight (48) seconds East a distance of two hundred thirty-one and twenty-one one-hundredths (231.21) feet to a point for corner;

THENCE: North twenty (20) degrees, eighteen (18) minutes, forty (40) seconds East a distance of one hundred sixty-four and twenty-one one-hundredths (164.21) feet to a point for corner;

THENCE: South forty (40) degrees, fourteen (14) minutes, forty-nine (49) seconds East a distance of three hundred fifteen and seventy-five one-hundredths (315.75) feet to a point for corner;

D7

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY
Job No. 2-77-5(81)

counter 95/00

THENCE: South six (06) degrees, six (06) minutes, fifty-six (56) seconds East a distance of three hundred thirty-seven and ninety-two one-hundredths (337.92) feet to a point for corner;

THENCE: South eighty-one (81) degrees, eleven (11) minutes, fourteen (14) seconds West a distance of two hundred sixty-one and eight one-hundredths (261.08) feet to a point for corner;

THENCE: South four (04) degrees, forty-one (41) minutes, fifty-five (55) seconds East a distance of seventy-three and twenty-five one-hundredths (73.25) feet to a point for corner;

THENCE: South eighty-six (86) degrees, seven (07) minutes, thirty-four (34) seconds West a distance of ninety-six and seventy-five one-hundredths (96.75) feet to a point for corner on the 1850 shoreline;

THENCE: North eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds West a distance of five hundred seventy and sixty-one one-hundredths (570.61) feet to the Point of Beginning.

Said tract contains 214,108 square feet, More or Less.

214105 sq ft-

4.9152 ac.

P/NS dc

8-3-79

RM

D8

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY
Job No. 2-77-5(81)
July 16, 1979

counter 45101

D-885

TRACT #6

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of one thousand one hundred forty-four and eighty-four one-hundredths (1144.84) feet;

South twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds East a distance of three hundred fifteen and eighteen one-hundredths (315.18) feet to the Point of Beginning;

THENCE: North eighty-six (86) degrees, thirty (30) minutes, thirty-three (33) seconds East a distance of three hundred twenty-four and sixty-seven one-hundredths (324.67) feet to a point for corner;

THENCE: South sixty (60) degrees, thirty-four (34) minutes, twenty-one (21) seconds East a distance of two hundred twenty-three and eighty-nine one-hundredths (223.89) feet to a point for corner;

THENCE: South zero (0) degrees. fifty-five (55) minutes, twenty-seven (27) seconds West and one hundred twenty-four and two one-hundreths (124.02) feet;

THENCE: South eighty-five (85) degrees, forty-two (42) minutes, thirty-nine (39) seconds East a distance of three hundred twenty and ninety one-hundredths (320.90) feet to a point for corner;

THENCE: North thirty (30) degrees, fifty (50) minutes, sixteen (16) seconds East a distance of three hundred ninety and sixteen one-hundredths (390.16) feet to a point for corner;

D9

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

counter 45102

Job No. 2-77-5(81)

THENCE: North eighty-four (84) degrees, twenty-three (23) minutes, thirty-seven (37) seconds East a distance of forty-seven and sixty-seven one-hundredths (47.67) feet to a point for corner in the U. S. Harbor line;

THENCE: Along the Harbor line South five (05) degrees, thirty-six (36) minutes, twenty-three (23) seconds East a distance of one thousand four hundred eighteen and seventy-one one-hundredths (1418.71) feet to a point for corner;

THENCE: South eighty-six (86) degrees, seven (07) minutes, thirty-four (34) seconds West a distance of seven hundred six and sixty-five one-hundredths (706.65) feet to a point for corner;

THENCE: North four (04) degrees, forty-one (41) minutes, fifty-five (55) seconds West a distance of seventy-three and twenty-five one-hundredths (73.25) feet to a point for corner;

THENCE: North eighty-one (81) degrees, eleven (11) minutes, fourteen (14) seconds East a distance of two hundred sixty-one and eight one-hundredths (261.08) feet to a point for corner;

THENCE: North six (06) degrees, six (06) minutes, fifty-six (56) seconds West a distance of three hundred thirty-seven and ninety-two one-hundredths (337.92) feet to a point for corner;

THENCE: North forty (40) degrees, fourteen (14) minutes, forty-nine (49) seconds West a distance of three hundred fifteen and seventy-five one-hundredths (315.75) feet to a point for corner;

THENCE: South twenty (20) degrees, eighteen (18) minutes, forty (40) seconds West a distance of one hundred sixty-four and twenty-one one-hundredths (164.21) feet to a point for corner;

THENCE: South eighty-nine (89) degrees, forty-five (45) minutes, forty-eight (48) seconds West a distance of two hundred thirty-one and twenty-one one-hundredths (231.21) feet to a point for corner on the 1850 shoreline;

THENCE: Along the shoreline North eighteen (18) degrees, twenty-one (21) minutes, twelve (12) seconds West a distance of five hundred seventy-one (571.0) feet to a point for corner;

THENCE: North twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds West a distance of two hundred eighty-eight (288.0) feet to the Point of Beginning.

Said Tract contains 993,687 square feet, More or Less.

993,680 sq ft
22.8118 AC.

F/NS OK
8-3-79
RVM

counter 45103

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY
Job No. 2-77-5(81)

D10

D-885

JOB NO. 2-77-5(81)
TRACT NO. 7
JULY 13, 1979

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of one thousand one hundred forty-four and eighty-four one-hundredths (1144.84) feet;

South twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds East a distance of fifty-nine and eighty-seven one-hundredths (59.87) feet to the Point of Beginning;

THENCE: South eighty-one (81) degrees, one (01) minute, forty-two (42) seconds East a distance of two hundred eighty-five and fifty-nine one-hundredths (285.59) feet to a point for corner;

THENCE: North eighty-five (85) degrees, twenty (20) minutes, fifty-nine (59) seconds East a distance of two hundred nine and sixty-nine one-hundredths (209.69) feet to a point for corner;

THENCE: North one (01) degree, twenty-three (23) minutes, fifty (50) seconds East a distance of forty-one and one one-hundredth (41.01) feet to a point for corner;

THENCE: North eighty-seven (87) degrees, thirty-two (32) minutes, forty (40) seconds East a distance of five hundred thirteen and forty-seven one-hundredths (513.47) feet to a point for corner;

D11

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

counter 45104

D-885

THENCE: North seventeen (17) degrees, forty-one (41) minutes, forty-nine (49) seconds East a distance of three hundred thirty-six and eighteen one-hundredths (336.18) feet to a point for corner on the U. S. Harbor line;

THENCE: Along the Harbor line South two (02) degrees, twenty-four (24) minutes, thirty-one (31) seconds East a distance of three hundred six and seventy-five one-hundredths (306.75) feet to a point for corner;

THENCE: Along the Harbor line South five (05) degrees, thirty-six (36) minutes, twenty-three (23) seconds East a distance of one hundred ninety-eight and eight one-hundredths (198.08) feet to a point for corner;

THENCE: South eighty-four (84) degrees, twenty-three (23) minutes, thirty-five (35) seconds West a distance of forty-seven and sixty-seven one-hundredths (47.67) feet to a point for corner;

THENCE: South thirty (30) degrees, fifty (50) minutes, sixteen (16) seconds West a distance of three hundred ninety and sixteen one-hundredths (390.16) feet to a point for corner;

THENCE: North eighty-five (85) degrees, forty-two (42) minutes, thirty-nine (39) seconds West a distance of three hundred twenty and ninety one-hundredths (320.90) feet to a point for corner;

THENCE: North zero (00) degrees, fifty-five (55) minutes, twenty-seven (27) seconds East a distance of one hundred twenty-four and two one-hundredths (124.02) feet to a point for corner;

THENCE: North sixty (60) degrees, thirty-four (34) minutes, twenty-one (21) seconds West a distance of two hundred twenty-three and eighty-nine one-hundredths (223.89) feet to a point for corner;

THENCE: South eighty-six (86) degrees, thirty (30) minutes, thirty-three (33) seconds West a distance of three hundred twenty-four and sixty-seven one-hundredths (324.67) feet to a point for corner on the 1850 shoreline;

THENCE: Along the shoreline North twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds West a distance of two hundred fifty-five and thirty-one one-hundredths (255.31) feet to the Point of Beginning.

Said Tract contains 382,810 more or less square feet.

382795 sq ft
8.787884c
F/N/S OK
8-3-79
RVM
counted 45105

D12

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D-885

JOB NO. 2-77-5(81)
TRACT NO. 8
JULY 13, 1979

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of two hundred thirty-eight and eleven one-hundredths (238.11) feet to the Point of Beginning;

THENCE: North eighty-seven (87) degrees, fifty-eight (58) minutes, three (03) seconds East a distance of one thousand one hundred forty-two and seven one-hundredths (1142.07) feet to a point for corner;

THENCE: South two (02) degrees, fifty-nine (59) minutes, thirty-two (32) seconds East a distance of three hundred sixty-five and fifty-six one-hundredths (365.56) feet to a point for corner;

THENCE: North eighty-six (86) degrees, thirty-three (33) minutes, nine (09) seconds East a distance of eighty-three and fifty-eight one-hundredths (83.58) feet to a point for corner on the U. S. Harbor line;

THENCE: Along the U. S. Harbor line South two (02) degrees, twenty-four (24) minutes, thirty (30) seconds East a distance of two hundred eighty (280.0) feet to a point for corner;

THENCE: South seventeen (17) degrees, forty-one (41) minutes, forty-nine (49) seconds West a distance of three hundred thirty-six and eighteen one-hundredths (336.18) feet to a point for corner;

D 13

counter 45104

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D-885

THENCE: South eighty-seven (87) degrees, thirty-two (32) minutes, forty (40) seconds West a distance of five hundred thirteen and forty-seven one-hundredths (513.47) feet to a point for corner;

THENCE: South one (01) degree, twenty-three (23) minutes, fifty (50) seconds West a distance of forty-one and one one-hundredth (41.01) feet to a point for corner;

THENCE: South eighty-five (85) degrees, twenty (20) minutes, fifty-nine (59) seconds West a distance of two hundred nine and sixty-nine one-hundredths (209.69) feet to a point for corner;

THENCE: North eighty-one (81) degrees, one (01) minute, forty-two (42) seconds West a distance of two hundred eighty-five and fifty-nine one-hundredths (285.59) feet to a point for corner on the 1850 shoreline;

THENCE: Along the shoreline North twelve (12) degrees, twenty-six (26) minutes, forty-seven (47) seconds West a distance of fifty-nine and eighty-seven one-hundredths (59.87) feet to a point for corner;

THENCE: Along the shoreline North eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds West a distance of nine hundred six and seventy-three one-hundredths (906.73) feet to the Point of Beginning.

Said Tract contains 1,099,548 more or less square feet.

1,099,550 sq ft.

25.2422 Ac.

Plus OK

8-3-79

Rum

D'4

counter 45107

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D-885

JOB NO. 2-77-5(81)
TRACT NO. 9
JULY 13, 1979

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of eight hundred eighty-one and thirty-seven one-hundredths (881.37) feet;

South eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds East a distance of twenty-eight and eleven one-hundredths (28.11) feet to the Point of Beginning;

THENCE: North eighty-seven (87) degrees, fifty-eight (58) minutes, three (03) seconds East a distance of one thousand two hundred fifty-one and ninety-eight one-hundredths (1251.98) feet to a point for corner on the U. S. Harbor line;

THENCE: Along the Harbor line South two (02) degrees, twenty-four (24) minutes, thirty (30) seconds East a distance of five hundred seventy-two and nine one-hundredths (572.09) feet to a point for corner;

THENCE: South eighty-six (86) degrees, thirty-three (33) minutes, nine (09) seconds West a distance of eighty-three and fifty-eight one-hundredths (83.58) feet to a point for corner;

THENCE: North two (02) degrees, fifty-nine (59) minutes, thirty-two (32) seconds West a distance of three hundred sixty-five and fifty-six one-hundredths (365.56) feet to a point for corner;

THENCE: South eighty-seven (87) degrees, fifty-eight (58) minutes, three (03) seconds West a distance of one thousand one hundred forty-two and seven one-hundredths (1142.07) feet to a point for corner on the 1850 shoreline;

D15

counter 75/108

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D-885

JOB NO. 2-77-5(81)
TRACT NO. 9
PAGE 2

THENCE: Along the shoreline North eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds West a distance of two hundred ten (210.0) feet to the Point of Beginning.

Said Tract contains 289,947 more or less square feet.

289,980 sq ft.
6.6570 AC.

P/RS OK
8-3-79
RWM

counter 75109

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

016

D-885

JOB NO. 2-77-5(81)
TRACT NO. 10
JULY 13, 1979

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of four hundred nine and twenty one-hundredths (409.20) feet to the Point of Beginning;

THENCE: North eighty-seven (87) degrees, fifty-eight (58) minutes, thirty-seven (37) seconds East a distance of one thousand two hundred sixty-one and forty-three one-hundredths (1261.43) feet to a point for corner on the U. S. Harbor line;

THENCE: Along the U. S. Harbor line South two (02) degrees, twenty-four (24) minutes, thirty (30) seconds East a distance of four hundred ninety-nine and eighty-one one-hundredths (499.81) feet to a point for corner;

THENCE: South eighty-seven (87) degrees, fifty-eight (58) minutes, three (03) seconds West a distance of one thousand two hundred fifty-one and ninety-eight one-hundredths (1251.98) feet to a point for corner on the 1850 shoreline;

THENCE: Along the shoreline North eight (08) degrees, thirty-five (35) minutes, twenty-five (25) seconds West a distance of twenty-eight and eleven one-hundredths (28.11) feet to a point for corner;

THENCE: Along the shoreline North three (03) degrees, eleven (11) minutes, thirteen (13) seconds West a distance of four hundred seventy-two and seventeen one-hundredths (472.17) feet to the Point of Beginning.

Said Tract contains 628,847 more or less square feet.

628,855 sq ft.
14.4365 Ac
Plats OK
8-3-79 RVM
Coverted 45110

D17

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D-885

JOB NO. 2-77-5(81)
TRACT NO. 11
JULY 13, 1979

A tract of land situated in the City of Texas City, Galveston County, Texas described by metes and bounds as follows:

COMMENCING: At a point in the North line of the Sylvester Bowen Survey, No. 1.5 on the County Maps, said point being the intersection of the said North line of the Sylvester Bowen Survey with the West shoreline of Galveston Bay as it existed in 1850 and being one thousand seven hundred fifty-nine and ninety-two one-hundredths (1759.92) Vs. East of the Northwest corner of the Sylvester Bowen Survey;

THENCE: Following the meanders of the shoreline as follows:

South five (05) degrees, zero (00) minutes, fourteen (14) seconds East a distance of twenty-six and ninety-eight one-hundredths (26.98) feet;

South one (01) degree, seven (07) minutes, thirty-seven (37) seconds East a distance of six hundred ten and twelve one-hundredths (610.12) feet;

South three (03) degrees, eleven (11) minutes, thirteen (13) seconds East a distance of two hundred ten and ninety-one one-hundredths (210.91) feet to the Point of Beginning;

THENCE: North eighty-seven (87) degrees, thirty-seven (37) minutes, thirteen (13) seconds East a distance of three hundred eighty-nine and eighty-four one-hundredths (389.84) feet to a point for corner;

THENCE: South two (02) degrees, twenty-two (22) minutes, forty-seven (47) seconds East a distance of forty-nine (49.0) feet to a point for corner;

THENCE: North eighty-seven (87) degrees, thirty-seven (37) minutes, thirteen (13) seconds East a distance of eight hundred seventy-four and twenty-seven one-hundredths (874.27) feet to a point for corner on the U. S. Harbor line;

THENCE: Along the U. S. Harbor line South two (02) degrees, twenty-four (24) minutes, thirty (30) seconds East a distance of one hundred fifty-seven and twelve one-hundredths (157.12) feet to a point for corner;

THENCE: South eighty-seven (87) degrees, fifty-eight (58) minutes, thirty-seven (37) seconds West a distance of one thousand two hundred sixty-one and forty-three one-hundredths (1261.43) feet to a point for corner on the 1850 shoreline;

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D18

counter 45/11

THENCE: Along the shoreline North three (03) degrees, eleven (11) minutes, thirteen (13) seconds West a distance of one hundred ninety-eight and twenty-nine one-hundredths (198.29) feet to the Point of Beginning.

Said Tract contains 212,471 more or less square feet.

212,470 sq ft.
4.8776 Ac.

F/N S OK
4-3-79
EVM

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON NEDERLAND TEXAS CITY

D19

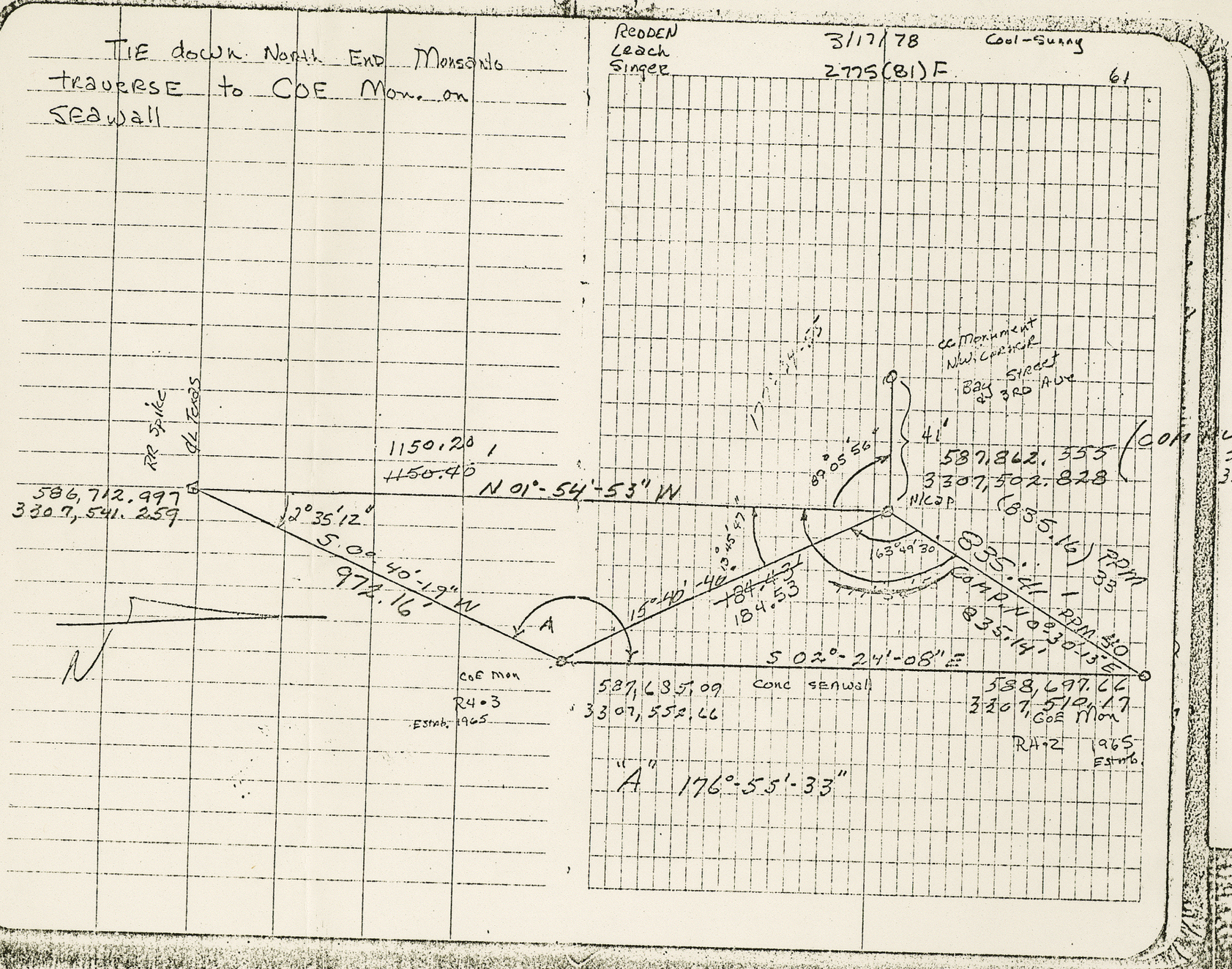
counter 75112

TIE down North End Monsanto
traverse to COE Mon. on
seawall

REODEN
Leach
Singer

3/17/78 Cool-Sunny
2775(81) F

61



Book 537

D-614

Counter 45124

CHECK MONSANTO TRAVERSE

BYERS
REOPEN
LEACH
SINGER

2775 (81) F CLEAR
4-4-78 WINDY

64

(FROM PG 63 THIS BK)

L.O.E. MON. (FROM PAGE 63)
(UNMARKED)

584,158.713
3307,537.105

394.29

S 07° 33'-34" W

171°-26'-03"

N/C INSIDE MONSANTO

170° 42'-02"

MONSANTO

N/C FRONT MON. MAIN GATE
RESET THIS DATE

501° 44'-24" E

1199.11

584,549.576
3307,588.976

178°-55'-53"

585,748.133
3307,552.542

964.93

S 0°-40'-17" E

120°-13'-34"

P.P. SINGER & TEX. AVE.

C.O.C. MON R4.2
(BAY ST. & 15TH AVE)
ON CL CLEANOUT

586,712.997 (PG 61)
3307,541.259
COMP. S 00°-53'-51" E
1984.906

588697.66
3307510.17

counter 45/25

Book 537

MONSANTO TRAVERSE

~~H/T~~ ~~TOP/EMB~~ N/C EDGE PAVMT ON RAMP

N/C T/E C.O.E. LEVEE (N. END)

R.R. SPIKES ON C.O.E. LEVEE

82
11°-39
77-21
9

EYERS
FOODEN
LEACH
SINGER

2775(81)F
4-3-78

CLDY, WINDY

63

F.S. U/C

N/C INSIDE MONSANTO

C/L FENCE

MON (UNMARKED)

171°-28'-03"

500°-58'-23"E

173°-19'-10"

TO STAK
153°-31'-04"

1850.52

583,400.323 E

3307,546.590 N

S 9°-39'-13" E

171°-42'-37"

581,640.896 E

3307,809.900 N

862

925.37'

S 0°-38'-19" W

8004.53

FLARE

26.88

580715.183

3307,799.622

535

90°-49'-22"
19°-48'-06
69°-22'-32

counter 45124

FLARE

E3

RECHECK TRAVERSE (REF. PG. 59)

BYERS
BERRY

2775 (SP1) CLOY, COOL
4-6-78

65

WAH CHANG STACK
CALL 576,562.792
3292,477.458

MEAS. S 74°-49'-21" W
COMP. S 74° 50'-12.39 W

MEAS. S 79°-02'-05" W
COMP. S 79°-02'-43.95 W

256°-29'-45" MEAN
256°-29'-39"
256°-29'-51"

579,518.209
330.7+746.542

1198.11

1184.23

120.05'

90°

1198.11'

S 02°-32'-20" W

104°-14'-21" (TO R.R. SPIKE)

N/C @ N. END C.D.E. LEVEE & ROAD

50°-38'-10" W

F.S.

580,715.173
3307,799.621

L1 254°-11'-11"

L2 181°-54'-10"

FORCE CLOSURE USING
COMPUTER BEARINGS
WAH CHANG = 576,562.871
3292,477.862

(0.41')

coenter 45127

Book 537

MONSANTO S.C.
Job.

COGO 1

STARTING FILE 11

LIST

1	3219.606	3016.535
2	2564.604	4258.703
3	2562.959	4257.233
4	2564.853	4258.642
6	1645.508	4264.603
10	11151.967	2347.393
11	14027.735	1456.970
12	6910.839	4109.550
13	6856.959	4172.805
14	6264.387	4868.487
15	1688.728	3406.202
17	1686.715	3107.243
18	1686.256	3039.081
19	1685.798	2971.083
25	585794.300	585794.300
26	585403.320	3308823.250
27	585794.300	3307549.860
28	584651.630	3307591.300
29	587685.090	3307552.660

LIST (12)

51	2567.571	4259.160
52	1643.764	4258.485
53	1637.838	3399.505
54	1789.726	3405.505
55	1639.729	3406.540
56	1645.514	4265.520
57	1637.664	3107.011
58	1787.721	3107.718
59	6903.600	3055.196
60	3921.380	3076.626
61	4021.366	3075.544
62	3921.631	3075.663
63	3943.114	3075.515
64	3894.366	3075.851
65	3921.272	3023.664
66	3220.048	3080.503
67	3229.592	4464.210
68	1787.254	3038.385
70	3921.272	3078.664
71	3487.972	3026.653
72	3713.906	3058.090
73	6856.901	4117.909
74	5851.401	3758.635
75	3982.855	3080.641
76	4176.378	3129.864
77	4684.803	3231.488
78	5132.269	3370.900
79	5580.468	3582.188
80	6102.684	3882.290
81	6286.637	3975.351
82	6500.136	4057.460
83	6696.465	4105.215
84	5851.462	3023.825
85	6856.992	3023.909
86	7071.638	4084.630
87	3893.016	3075.861
88	4843.799	3432.283
89	4982.452	3478.294
90	4981.356	3323.881
91	3219.689	3028.504
92	3115.098	3088.227
93	3114.691	3029.228
94	3220.096	3087.503
100	3374.555	3014.435

LIST (13)

101	3219.606	3016.535
102	2564.604	4258.703
103	2562.959	4257.233
104	2564.853	4258.642
106	1645.508	4264.603
110	11151.967	2347.393
111	14027.735	1456.970
112	6910.839	4109.550
113	6856.959	4172.805
114	6264.387	4868.487
115	1688.728	3406.202
117	1686.715	3107.243
118	1686.256	3039.081
119	1685.798	2971.083
125	585794.300	585794.300
126	585403.320	3308823.250
127	585794.300	3307549.860
128	584651.630	3307591.300
129	587685.090	3307552.660

LIST 130-150
LIST 151-200 (14)

LIST (15)

201	3000.000	3000.000
202	6903.565	3055.094
203	5903.140	3062.093
204	4889.509	3069.111
205	4979.543	3068.608
206	4121.375	3075.246
207	3942.617	3003.555
208	3918.028	3023.639
209	3893.871	3004.078
210	3839.284	3330.170
211	3203.588	3080.616
212	2984.892	3217.085
213	1855.950	3001.370
214	2402.671	3000.715
215	1824.012	3001.408
216	1757.886	3001.498
217	1826.313	3107.452
218	1812.046	3107.832
219	2382.586	3110.517
220	4102.434	3320.523
221	3726.487	3294.594
222	4921.881	3086.394
223	4982.441	3478.290
224	4929.826	3476.574
225	4843.747	3432.596
226	6949.096	4829.770
227	4992.832	4940.388
228	811.858	2923.485
229	-1159.986	3113.979
230	6260.986	3059.564
231	6832.920	4173.992
232	7247.043	4067.770
233	7217.750	3922.355
234	7286.989	3860.306
235	7528.185	3730.255
236	7745.460	3604.049
237	7995.015	3653.378

Galveston Co. Rd. Sk. #98

LIST (16)

265	3921.272	3023.664
270	3921.272	3078.664
275	3982.855	3080.641
288	4843.799	3432.283
289	4982.452	3478.294

LIST (17)

301	3219.606	3016.535
302	2564.604	4258.703
303	2562.959	4257.233
304	2564.853	4258.642
306	1645.508	4264.603
310	11151.967	2347.393
311	14027.735	1456.970
312	6910.839	4109.550
313	6856.959	4172.805
314	6264.387	4868.487
315	1688.728	3406.202
317	1686.715	3107.243
318	1686.256	3039.081
319	1685.798	2971.083
325	585794.300	585794.300
326	585403.320	3308823.250
327	585794.300	3307549.860
328	584651.630	3307591.300
329	587685.090	3307552.660

LIST (18)

399	3944.522	3023.664
400	3944.522	3079.410

LIST (19)

401	3944.522	3309.632
402	2556.756	3141.333
403	4929.503	3460.723

LIST (20)

County 75-136

```
MEMORY OVERFLOW
09815-13514 (E)
CODE 1

STARTING FILE 16

STRT
PT                156
N.          2556.756
E.          3291.236

INV
N+W          89.5960
DIST          149.949

PT                175
N.          3944.522
E.          3309.632

STRT
PT                176
N.          3944.522
E.          3079.410

PT                160
N.          3944.522
E.          3078.294

STRT
PT                 89
N.          4982.452
E.          3478.294

INV
S+W          77.1210
DIST          419.606

PT                  4
N.          4889.509
E.          3069.111

B-B
N+E         54.2032
DIST          73.268

PT                 11
N.          8380047.044
E.          4549089.887

S+W         31.1222
DIST          388.418

PT                 10
N.          8377757.592
E.          4548114.547

STRT
PT                 10
N.          8377757.592
E.          4548114.547

E*M
PT                  6
N.          8380004.333
E.          4549330.356

E*M
PT                 84
N.          8358859.035
E.          4536308.818

STRT
PT                 84
N.          8358859.035
E.          4536308.818

PT                 84

INV
S+W          42.0006
DIST          21.342

PT                 41
N.          8358724.895
E.          4536445.099

INV
N+E          42.0006
DIST          21.342

B-B
N+W          89.5960
DIST          263.949

E*M
PT                 20
N.          4102.434
E.          3320.523

INV
S+W          89.5960
DIST          230.221

STRT
PT                176
N.          3944.522
E.          3309.632

INV
N+E          3.5644
DIST          158.287

PT                 20
N.          4102.434
E.          3320.523

STRT
PT                 84
N.          8358859.035
E.          4536308.818

INV
S+W          42.0006
DIST          21.342

PT                 84

STRT
PT                 84
N.          8358859.035
E.          4536308.818

INV
N+E          42.0006
DIST          21.342

PT                 41
N.          8358724.895
E.          4536445.099

INV
N+E          29.1047
DIST          241.173

PT                 68
N.          8359564.757
E.          4536353.992

STRT
PT                 40
N.          8356567.251
E.          4534772.549

STRT
PT                250
N.            0.000
E.            0.000

INV
N+E          39.3151
DIST          248.857

STRT
PT                 40
N.          8356567.251
E.          4534772.549

B-B
N+E         39.4334
DIST          73.039

PT                250
N.          8357223.426
E.          4535319.230

INV
N+E          29.1047
DIST          35.235

PT                 67
N.          8357554.189
E.          4535536.409

STRT
PT                 67
N.          8357554.189
E.          4535536.409

INV
S+W          24.1932
DIST          1010.391

PT                 10
N.          8377757.592
E.          4548114.547

STRT
PT                 10
N.          8377757.592
E.          4548114.547

E*M
PT                  6
N.          8380004.333
E.          4549330.356

STRT
PT                 40
N.          8356567.251
E.          4534772.549

INV
S+W          77.1210
DIST          419.606

PT                  4
N.          4889.509
E.          3069.111

STRT
PT                 89
N.          4982.452
E.          3478.294

INV
S+W          89.5960
DIST          263.949

PT                 20
N.          4102.434
E.          3320.523

INV
N+W          89.5960
DIST          230.221

STRT
PT                176
N.          3944.522
E.          3309.632

INV
N+E          3.5644
DIST          158.287

PT                175
N.          2556.756
E.          3141.287

STRT
PT                 12
N.          2984.903
E.          3216.927

INV
N+W          86.0108
DIST          217.452

PT                  1
N.          3000.000
E.          3000.000

STRT
PT                158
N.          3944.522
E.          3573.581

INV
N+W           0.0000
DIST          1038.606

PT                157
N.          4983.128
E.          3573.581

INV
S+W         25.2643
DIST          1150.127

PT                160
N.          3944.522
E.          3079.410

STRT
PT                158

COUNTERS/41

COGO 1

STARTING FILE 24

STRT
PT                144
N.          1757.495
E.          1902.831

INV
N+E          50.2911
DIST          375.214

PT                145
N.          1781.229
E.          1931.299

INV
S+W          49.1640
DIST          758.406

PT                146
N.          1731.452
E.          1874.516

STRT
PT                 39
N.          8354.345
E.          4531.711

INV
N+E          49.5126
DIST          375.226

PT                 40
N.          8356.567
E.          4534.549

STRT
PT                 40
N.          8356.567
E.          4534.549

B-B
N+E         39.4334
DIST          269.980

INV
N+E          39.4334
DIST          269.980

PT                 41
N.          8358.724
E.          4536.445

INV
N+E          51.2551
DIST          60.745

PT                 42
N.          8359.127
E.          4536.592
```

CORPS OF ENGINEERS

U. S. ARMY

GALVESTON Co. Pd. SK. #28

596,000

3,295,000

3,296,000

94°55'

3,300,000

3,304,000

94°54'

3,308,000

3,310,000

29° 24'

592,000

588,000

587,000

29° 23'

Sta. 3 △

P.I. 0

P.I. 1

P.I. 2
P.I. 3
P.I. 4
P.I. 5
P.I. 6
P.I. 7
P.I. 8
P.I. 9
P.I. 10
P.I. 11
P.I. 12
P.I. 13
P.I. 14
P.I. 15
P.I. 16
P.I. 17
P.I. 18
18-19
P.I. 19
P.I. 20
P.I. 21
21-22 A
21-22 B
P.I. 22
22-23 NBL
P.I. 23

GALVESTON BAY

Concrete Seawall

Road to Dike

Sta. 5 △

Seventh Ave. N.

Stackhouse Sta. 16

Sta. 4-1 △

Sta. 4-2 △

Fifth Ave. N.

Fourth Ave. N.

Third Ave. N.

Monsanto Corner Sta. 4-3 △

Second Ave. N.

First Ave. N.

MONSANTO CO.
Tract No. 2 - 66.968 Ac.

N

800 600 400 200 0 800
Scale Of Feet

TEXAS CITY, TEXAS
HURRICANE-FLOOD PROTECTION

1850 SHORELINE LOCATION WEST SIDE GALVESTON BAY

SCALE AS SHOWN

U. S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

DATE: AUGUST, 1965

J. STUART BOYLES and ASSOCIATES
AND
WILLIAM H. WILSON, CONSULTING ENGINEER

SHEET No.

FILE:

counter 45/13

CORPS OF ENGINEERS

U. S. ARMY

GALVESTON Co. RLD. SK. #28

587,000

3,295,000

3,296,000

3,300,000

94°55'

3,304,000

94°54'

3,308,660

3,310,000

29° 23'

584,000

29° 22'

580,000

578,000

(Not Found) Old Cor.

P.I. 24

Texas Ave.

Sta. 17

Sta. 4-4

Texas City Channel Cut B Inner Range Rear Light

P.I. 25

First Ave. S.

Sta. 5

Second Ave. S.

Sta. A

Sta. 13

Sta. B

P.I. 26

Sta. B-1

P.I. 27

Sta. C

Monsanto W.T.

Sta. D

Property Cor.

27-28A

27-28B

Monsanto - T.C.T. RR. Co. Property Line

GALVESTON

Sta. 12

Old Cor.

Sta. E

27-28C

P.I. 28

28-29

Sta. 23

P.I. 29

Sta. F

P.I. 30

P.I. 31

Sta. 24

P.I. 32

32-33

P.I. 33

34-35

Sta. 24-1

P.I. 34

Sta. 24-2

P.I. 35

Sta. 24-3

P.I. 36

BAY

P.I. 37

2" I.P.-T.C.T. Ry Base Line

Sta. 25

P.I. 38

P.I. 39

P.I. 40

P.I. 41

P.I. 42

43-44

P.I. 43

P.I. 44

Sta. 6

44-45

P.I. 45

P.I. 46

P.I. 47

P.I. 48

P.I. 49

P.I. 50

P.I. 51

P.I. 52

P.T.

Sta. 11

Sta. K

Sta. J

Sta. I

Sta. H

2" I.P.-T.C.T. Ry Base Line

UNION CARBIDE CORPORATION

104.184 Ac.

U.C. Base Line

I. Rod

I. Rod

I.P. in Concrete for Corner

N

800 400 0 800

Scale Of Feet

TEXAS CITY, TEXAS
HURRICANE-FLOOD PROTECTION

1850 SHORELINE LOCATION WEST SIDE GALVESTON BAY

SCALE AS SHOWN

U. S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

DATE · AUGUST, 1965

J. STUART BOYLES and ASSOCIATES
AND
WILLIAM H. WILSON, CONSULTING ENGINEER

SHEET No.

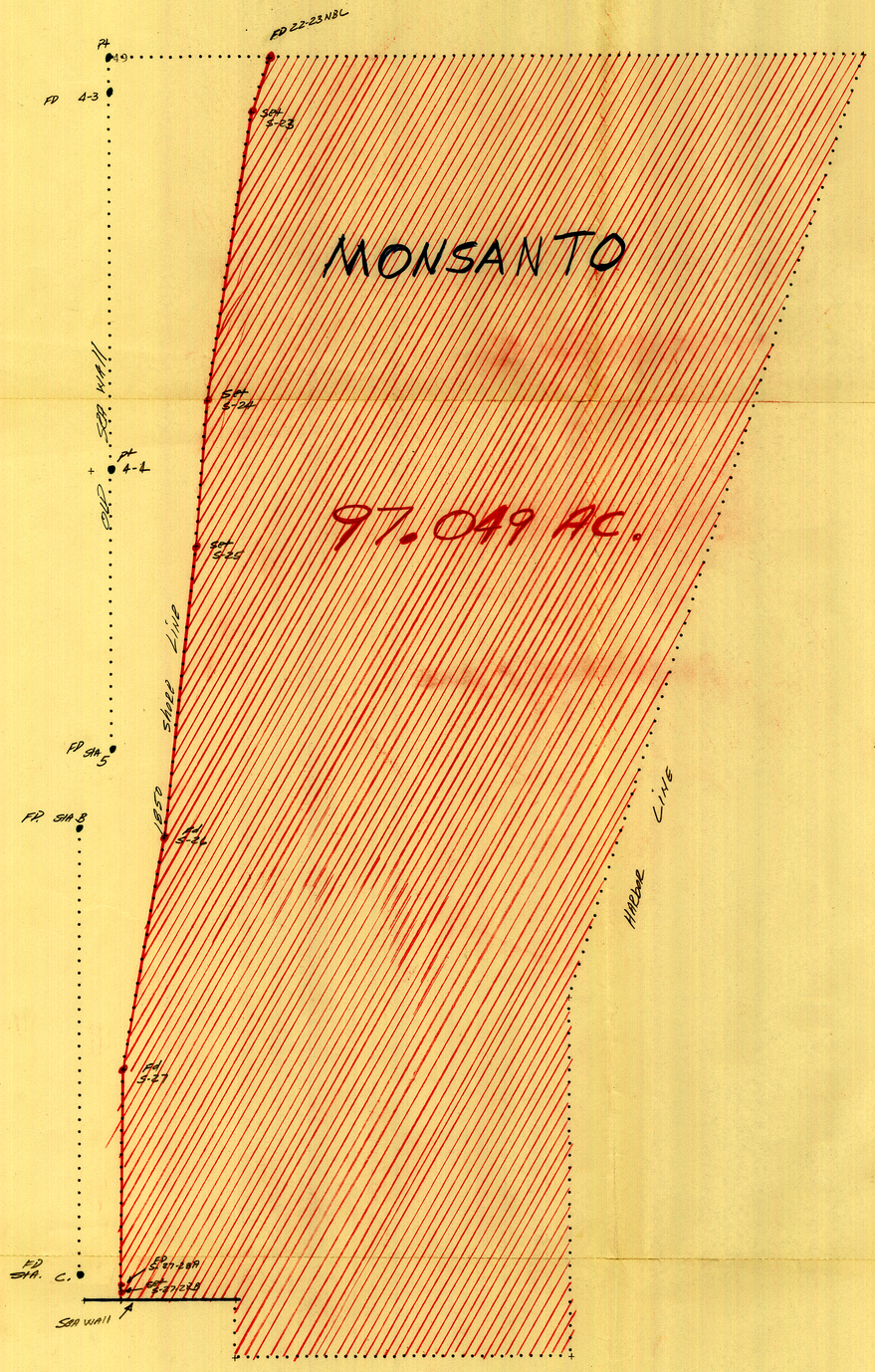
FILE:

counter 45174

345

PT-PT AREA
23
50
51
56
55
54
53
19
12
21
20
25
23

AREA 4227445 SF 97.0488 ACRES



counter 45146

Monsanto

MONSANTO CHEMICAL INTERMEDIATES CO.
P. O. Box 1311
Texas City, Texas 77590
Phone: (713) 945-4431

December 6, 1979

Mr. Herman Forbes
Surveying Division
General Land Office
Stephen F. Austin Building
Austin, Texas 78701

Dear Mr. Forbes:

Enclosed are photographs requested by Mr. Mortensen showing the various markers indicating the stations and P.I. points of the Boyles Survey of the 1850 shoreline. I have labeled each photograph with the identification called out on the Boyles Survey map and have indicated the direction or given a location with respect to a building or street intersection.

It was a pleasure working with Messrs. Mortensen, Molina and Connally. If you require additional information please let us know.

Regards,

A. J. Stroud

:bks
attachments

141

counter 45113

X IN OLD CONC. SEAWALL MONSANTO CO NORTH PROPERTY LINE



LOOKING EAST

STA 4-3

BAY ST.



LOOKING NORTH

1850 SR. LN. STA. 22-23 NBL



LOOKING NORTH

corentel 45114

60 POLACOLOR ® TYPE 108

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Approved By G L Tomlin

Date: 12/5/79

Counter 45115

2 POLACOLOR ® TYPE 108

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Approved By G L Tomlin

Date: 12/5/79

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Approved By G L Tomlin

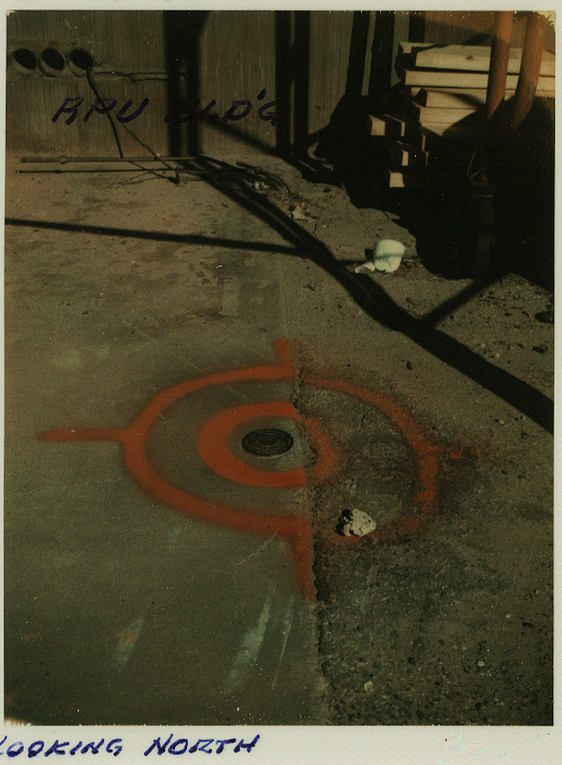
Date: 12/5/79

S-27-28 B (RESTORED)



LOOKING NORTH

S-27-28 A



LOOKING NORTH

P1 - 23 (RESTORED)



LOOKING WEST

counter 45/14

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Approved By G L Tomblin

Date: 12/5/79

Counter 45117

E 91964 2

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Approved By G L Tomblin

Date: 12/5/79

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Approved By G L Tomblin

Date: 12/5/79

P.I. 24 (RESTORED)



LOOKING EAST - NORTH EAST

STA - C



AT INTERSECTION OF MONSANTO AVE AND SOUTH STREET

STA. B-1



NEAR INTERSECTION MONSANTO AVE & MAIN STREET

POLACOLOR ® TYPE 108

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Approved By G. L. Tomlin

Date: 12/5/79

counter 45119

POLACOLOR ® TYPE 108

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Approved By G. L. Tomlin

Date: 12/5/79

POLACOLOR ® TYPE 108

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Approved By G. L. Tomlin

Date: 12/5/79

PI - 27 CARPORT



LOOKING SOUTH

PI 26



LOOKING NORTH

Counter 45/20

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Approved By M L Scanlon

Date: 12/5/79

POLACOLOR ® TYPE 108

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Approved By M L Scanlon

Date: 12/5/79

POLACOLOR ® TYPE 108

counter 4578


FLAG POLE
STA. B LOOKING SOUTH-WEST


PI 25 (RESTORED)
FUEL OIL TK
LOOKING EAST
ORIENTED 45°22

2

POLACOLOR ® TYPE 108

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Approved By G. L. Tomlin

Date: 12/5/79

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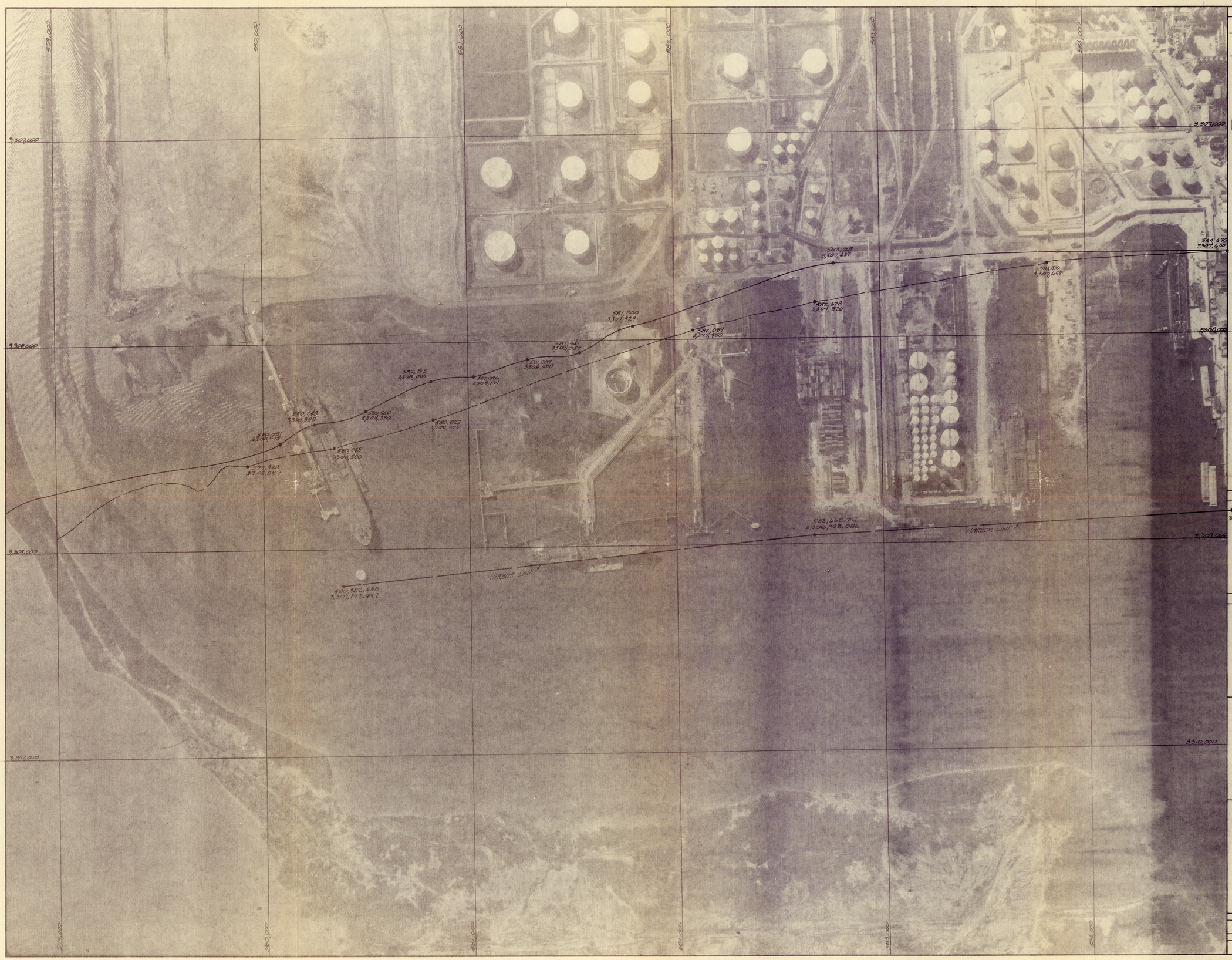
Approved By G. L. Tomlin

Date 12/5/79

POLACOLOR ® TYPE 108

STA-25

counter 45123



GENERAL NOTES

1852 SHORELINE PER GLO.

1852 SHORELINE AS DETERMINED BY COASTAL GEODETIC

REFERENCE DRAWINGS

REVISIONS	DATE	BY	CH'KD

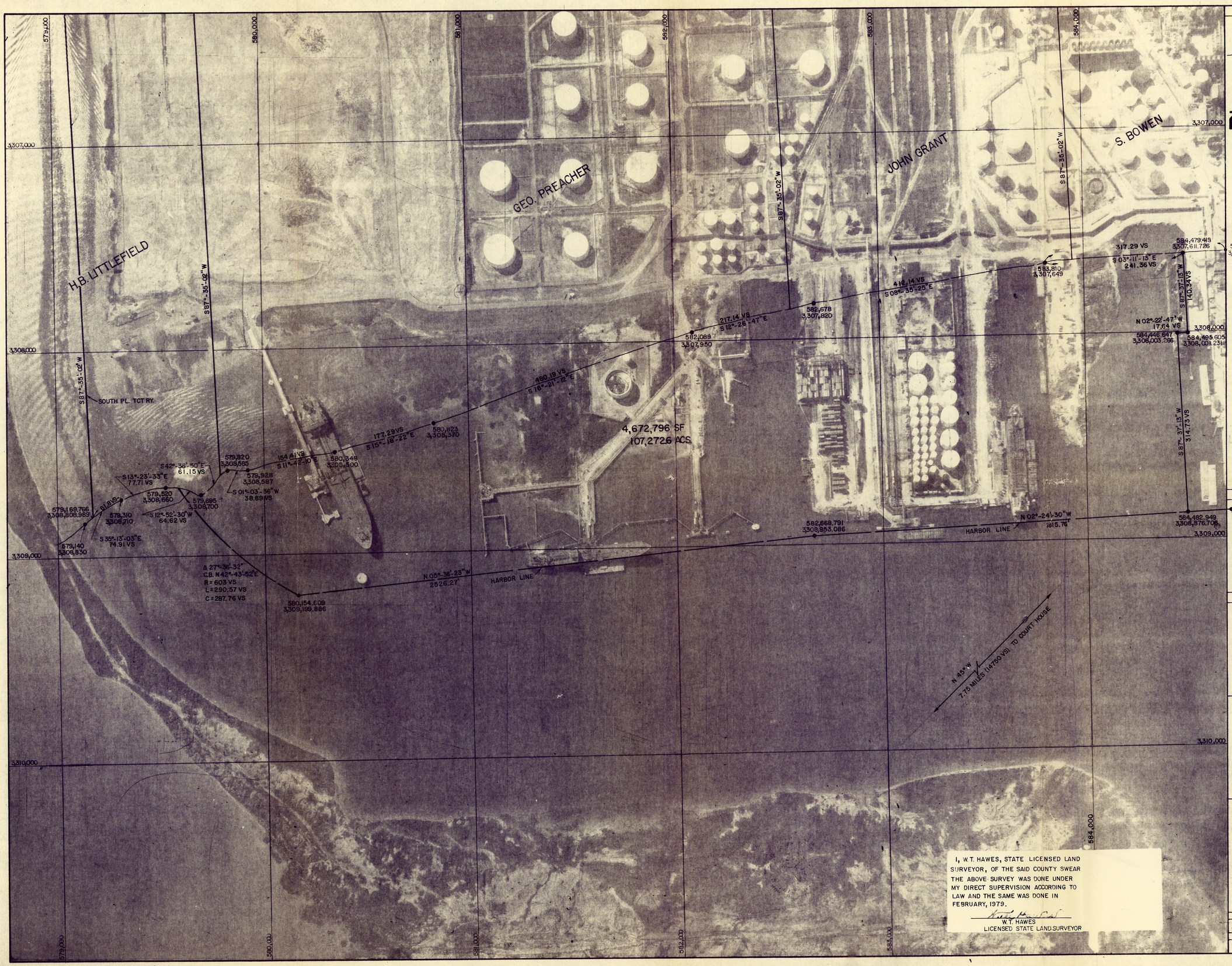
CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS

HOUSTON
TEXAS CITY NEDERLAND

1852 GALVESTON BAY SHORELINE OVERLAY BY DIGITIZING

DATE	DRAWN	CHECKED	JOB NO.
11/6/'78	AS	AS	2775(81)
SCALE	DRAWING NO.		FILE NO.
1 = 200	2		

counter 45138



GENERAL NOTES

1852 SHORELINE AS DETERMINED BY COASTAL GEODETIC

MAGNETIC NORTH N10°-29'E

ALL BEARINGS & COORDINATES ARE TEXAS PLANE COORD SYSTEM. (LAMBERT)

ACCEPTED FOR FILING IN GALVESTON COUNTY SURVEYOR'S OFFICE 6/18/79

COUNTY OF GALVESTON COUNTY SURVEYOR STATE OF TEXAS

REFERENCE DRAWINGS

584,697.679
3308,867.755

REVISIONS	DATE	BY	CH'KD
REV-1	7-23-79	TRM	RA

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS

HOUSTON
TEXAS CITY
NEDERLAND

1852 SHORELINE OVERLAY BY DIGITIZING

REQUESTED BY T.C.T. RY. CO., ADJOINING PROPERTY OWNERS

GALVESTON CO.

DATE	DRAWN	CHECKED	JOB NO.
APRIL 1979	A S	AS	2-77-5(81)
SCALE	DRAWING NO.		FILE NO.
1 = 200	2		345

I, W.T. HAWES, STATE LICENSED LAND SURVEYOR, OF THE SAID COUNTY SWEAR THE ABOVE SURVEY WAS DONE UNDER MY DIRECT SUPERVISION ACCORDING TO LAW AND THE SAME WAS DONE IN FEBRUARY, 1979.

W.T. HAWES
LICENSED STATE LAND SURVEYOR

counter 95139 D-885

RECEIVED
JUL 2 8 1979
General Land Office

(H) Rolled Sketch

File No. 28

Galveston County

Survey 1852 Shoreline

Filed 7-28- 1979

BOB ARMSTRONG, Com'r

By James E. McCarty

COUNTER 82270



GENERAL NOTES

——1852 SHORELINE AS DETERMINED BY COASTAL GEODETIC

MAGNETIC NORTH
N 10°-25' E

ALL BEARINGS SHOWN ARE BASED ON THE TEXAS PLANE CO-ORDINATE SYSTEM (LAMBERT)

Accepted for Filing
in Galveston County
Surveyor's Office
6/18/79

REFERENCE DRAWINGS

REVISIONS	DATE	BY	CH'KD
REV.- 1	7-27-79	TRM	RA

I, W.T. HAWES, STATE LICENSED LAND SURVEYOR, OF THE SAID COUNTY SWEAR THE ABOVE SURVEY WAS DONE UNDER MY DIRECT SUPERVISION ACCORDING TO LAW AND THE SAME WAS DONE IN FEBRUARY, 1979.

W.T. HAWES
LICENSED STATE LAND SURVEYOR

CHAS. R. HAILE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON
TEXAS CITY
NEDERLAND

1852 SHORELINE OVERLAY BY DIGITIZING REQUESTED BY T.C.T. RY. CO. & MONSANTO

ADJOINING PROPERTY OWNERS

GALVESTON CO.

DATE	DRAWN	CHECKED	JOB NO.
APR 1979	AS	AS	2775 (81)
SCALE	DRAWING NO.		FILE NO.
1 = 200	1		345

counter 45137 D-885

Rolled Sketch

File No. 28

Galveston County

Overlay 1852 Shoreline

Filed 7-28- 19 79

BOB ARMSTRONG, Com'r.

By James E. McCarty

counter #540

RECEIVED
JUL 2 8 1979
General Land Office

GENERAL NOTES

1852 SHORELINE AS DETERMINED BY COASTAL GEODETIC

MAGNETIC NORTH N 10½ E

ALL BEARINGS SHOWN ARE BASED ON THE TEXAS PLANE CO-ORDINATE SYSTEM (LAMBERT)

Accepted for Future Shoreline Determinations Office
7/18/79

REFERENCE DRAWINGS

REVISIONS	DATE	BY	APP'D
REV.-1	7-27-79	TRM	RA

CHAS. R. HALE ASSOCIATES, INC.
CONSULTING ENGINEERS
HOUSTON
TEXAS CITY LEDERLAND

1852 SHORELINE
OVERLAY BY DIGITIZIN
REQUESTED BY
T.C.T. RY. CO. & MONSANTO

ADJOINING PROPERTY OWNERS

GALVESTON CO.

DATE	DRAWN	CHECKED	APP'D
Dec 1979	AS		B.R.H. (JR)

SCALE	DRAWING NO.	FILE NO.
1" = 200'	1	885

I, W.T. HAWES, STATE LICENSED LAND SURVEYOR, OF THE SAID COUNTY SWEAR THE ABOVE SURVEY WAS DONE UNDER MY DIRECT SUPERVISION ACCORDING TO LAW AND THE SAME WAS DONE IN FEBRUARY, 1979.

W.T. HAWES
LICENSED STATE LAND SURVEYOR

C-885

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

TEXAS CITY QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

6943 II SE (LEAGUE CITY) · 7043 III SW (BACLIFF) · 7043 II SE (SMITH POINT)

95°00' · 29°30' · 57'30" · 94°52'30" · 29°22'30"

3 308 000m. E. · 309 · 310 · 311 · 313 · 314 55' · 315 · 316 · 317 · 3 310 000 FEET

3264 000m. N. · 3263 · 3262 · 620 000 FEET · 3261 · 27'30" · 3260 · 3259 · 3257 · 3256 · 25' · 3255 · 3254 · 590 000 FEET · 3253 · 3252 · 3251 000m. N.

LA PORTE 12 MI. SEABROOK 5 MI. · BACLIFF 2.6 MI. · DICKINSON 3.3 MI. · HOUSTON 33 MI. DICKINSON 46 MI. · 12 MI. TO TEX. 341 (VIRGINIA POINT) 7042 IV SW · 1.5 MI. TO TEX. 341 GALVESTON 14 MI. · 11 MI. TO TEX. 341 3.2 MI. TO U.S. 75 · (HITCHCOCK) 6942 I SE · (GALVESTON) 7042 IV SE · 6942 I NE (DICKINSON) · (PORT BOLIVAR) 7042 IV NE

Wells and Pipelines Obstruction Area · CHAMBERS CO · GALVESTON CO · BAYSHORE DRIVE · Eagle Pt · San Leon · Community Ch · Cem. · Spars · Piles · Shells · Submerged Pipes · Mud · Mud Shells · Mud · Substa · Oil Derrick · SAN LEON ROAD · Salt Bayou · Factory Bayou · Salt Lake · DICKINSON BAY · Cat Pt · April Fool Pt · SOUTHERN PACIFIC · SAN LEON ROAD · DICKINSON · Oil Tanks · Gas Tanks · San Leon Station · Oil Tank · Spoil Area · PROJECT DEPTH 9 FEET · GALVESTON BAY · SEAWALL · Post · Shell Island · Miller Pt · Pipe · Pipeline · Area · Humble Camp · Galveston County Industrial Water Reservoir · Water Tank · BAYOU · Moses Lake · Edwards Pt · Dollar Pt · Silo · Pipe · Masts Exposed · Sewage Disposal · PIPELINE · Moses Bayou · Moses · Tower · Off Tanks · Substa · GALVESTON HOUSTON AND HENDERSON · UNDER CONSTRUCTION · Water Tank · Galveston County Memorial Hospital · Heights · Nadeau · Temple Ch · Peace Ch · Grace Ch · North Side Ch · Franz Kofeldt Sch · Swimming Pool · Water Tanks · Playground · Tanks · STORM SEWER · TERMINAL · TEXAS CITY · High Sch · Franklin Roosevelt Sch · Woodrow Wilson Sch · TEXAS CITY · Golf Course · City Hall · St Marys Ch · PO · Danforth Sch · Stadium · TEXAS CITY DIKE · SEAWALL · PROJ DEPTH 36 FT · TEXAS CITY SHIP CHANNEL · TURNING BASIN DEPTH 36 FT · Pier O · Pier A · Pier B · Sand · Snake Island · LA MARQUE · County Park · 6 LANE · 4 LANE · LOOP 197 · 1764 · 1765 · 348 · 146 · 517 · 3 · INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1977

Mapped by the Army Map Service
Published for civil use by the Geological Survey

Control by NOS/NOAA, USCE and TVA

Topography from aerial photographs by multiplex methods and by planetable surveys 1943. Revised by photogrammetric methods from aerial photographs taken 1952. Field check 1954

Hydrography compiled from USC&GS charts 886 and 1282 (1953)

Polyconic projection. 1927 North American datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Red tint indicates areas in which only landmark buildings are shown

UTM GRID AND 1974 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
GN · MN · 0°57' 17 MILS · 7½° 133 MILS

Revisions shown in purple compiled by the Geological Survey from aerial photographs taken 1969 and 1974. This information not field checked

Purple tint indicates extension of urban areas

SCALE 1:24 000
1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

DEPTH CURVES AND SOUNDINGS IN FEET-DATUM IS MEAN LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 1 FOOT

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route · U. S. Route · State Route

TEXAS CITY, TEX.
N2922.5–W9452.5/7.5

1954
PHOTOREVISED 1969 AND 1974
AMS 7042 IV NW–SERIES V882

2994-233

Galveston Co. Rd. Sk. #28

counter 15145

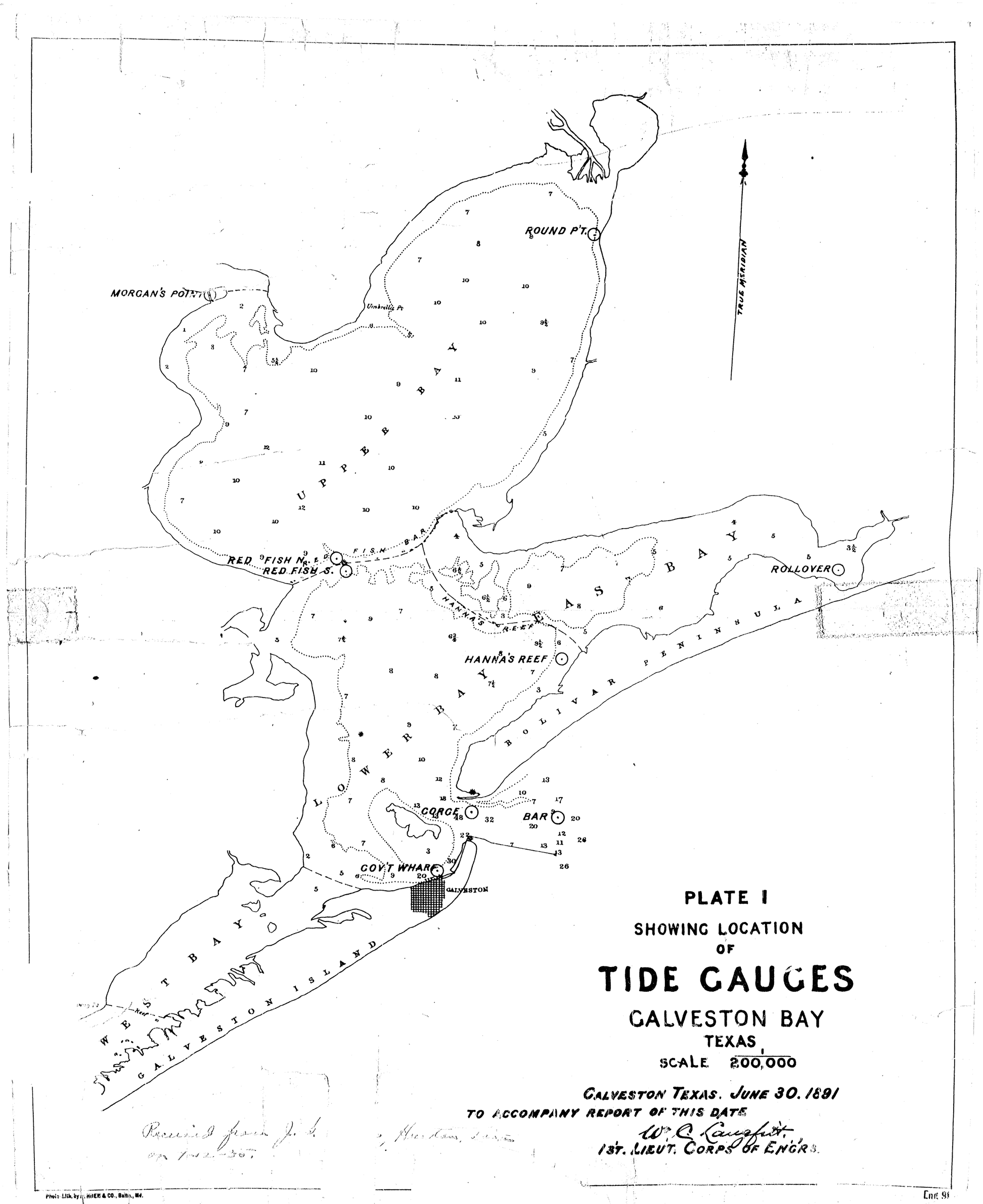


PLATE I

SHOWING LOCATION OF

TIDE GAUGES

GALVESTON BAY

TEXAS

SCALE 1/200,000

CALVESTON TEXAS. JUNE 30. 1891

TO ACCOMPANY REPORT OF THIS DATE

W. C. Langfitt.
1ST. LIEUT. CORPS OF ENG'RS.

Received from [illegible]
on June 30.

Photo-Lith. by W. HIEN & CO., Balto., Md.

Eng 91

ROLLED SKETCH NO. 28
COUNTY Galveston

lveston County Rolled Sk. "28"
ious Info
alvesto
Filed ,