

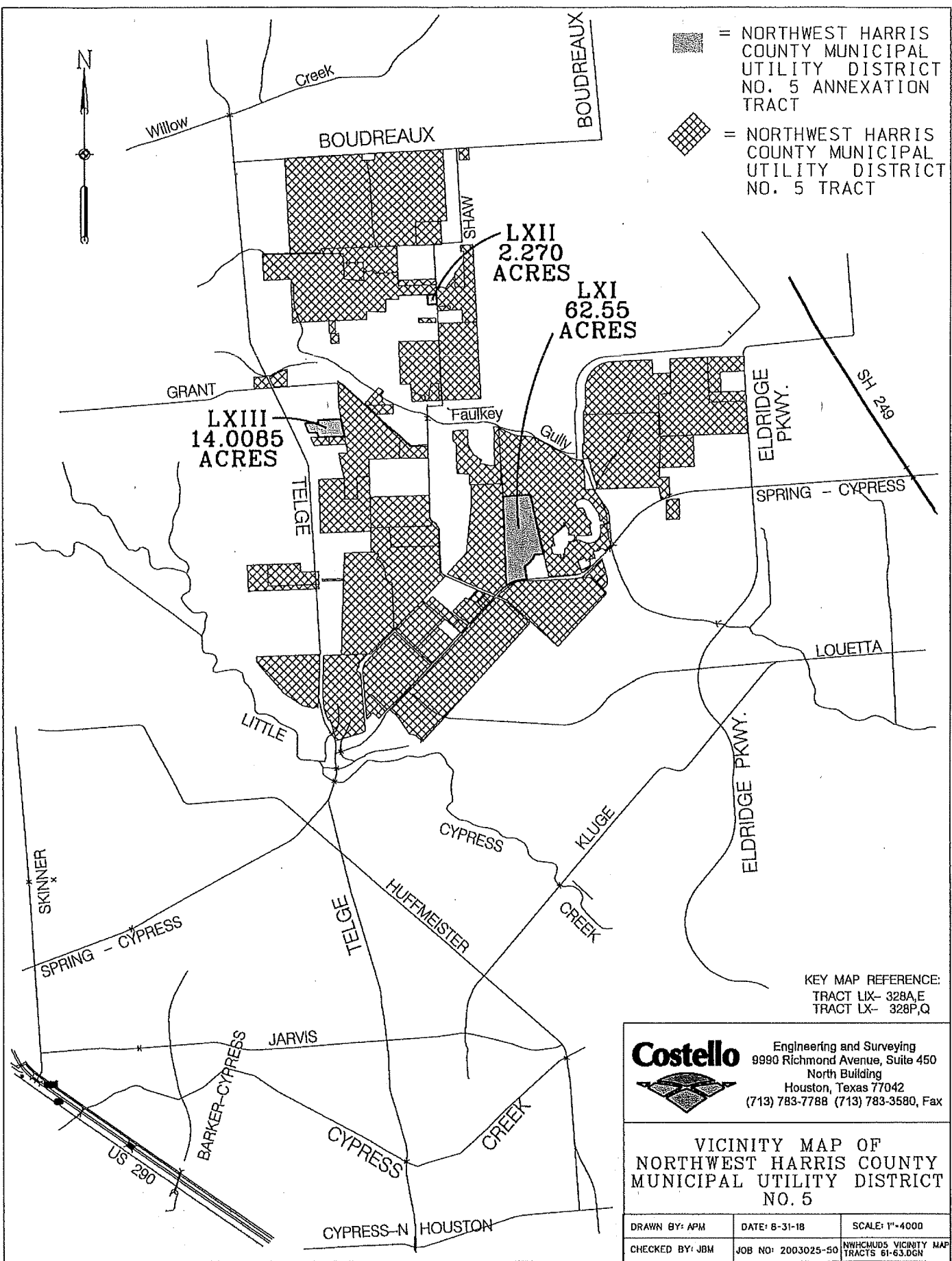




-  = NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 5 ANNEXATION TRACT
-  = NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 5 TRACT



KEY MAP REFERENCE:
 TRACT LX- 328A,E
 TRACT LX- 328P,Q

Costello Engineering and Surveying
 9990 Richmond Avenue, Suite 450
 North Building
 Houston, Texas 77042
 (713) 783-7788 (713) 783-3580, Fax

VICINITY MAP OF
 NORTHWEST HARRIS COUNTY
 MUNICIPAL UTILITY DISTRICT
 NO. 5

DRAWN BY: APM	DATE: 8-31-18	SCALE: 1"=4000
CHECKED BY: JBM	JOB NO: 2003025-50	NWHCMUDS VICINITY MAP TRACTS 61-65.DGN

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly near local drainage stations or small creeks. The community may wish to consider local coverage stations or small creeks. The community may wish to consider local coverage stations or small creeks.

To obtain more detailed information in areas where Flood Elevation (FE) and/or Floodway (FW) data were not provided, users are encouraged to contact the Flood Protection and Planning Data Center located within the Flood Insurance Study (FIS) report that covers the area. Users should be aware that the FE and FW data shown on the FIS are based on the most recent data available and may not reflect the most current information. Accordingly, flood elevation data presented on the FIS should be used in conjunction with the FIS for purposes of construction and/or floodplain management.

Certain Base Flood Elevation (BFE) shown on the map apply only to land used for residential purposes. Flood elevations may vary for other land uses. Flood elevations shown on the map are based on the most recent data available and may not reflect the most current information. Accordingly, flood elevation data presented on the FIS should be used in conjunction with the FIS for purposes of construction and/or floodplain management.

Boundaries of the Floodway were contacted at cross sections and interpolated between cross sections. The Floodway was based on hydraulic computations with regard to movement of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for the jurisdiction.

Certain areas not in Special Flood Hazard Areas may be associated with Flood Control Structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on these structures in the jurisdiction.

The projections used in the preparation of this map is Universal Transverse Mercator (UTM) Zone 16. The horizontal datum is NAD83, 8305.002 spheroid. Differences in datum, spheroid, projection or UTM zones, used in the production of FISs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIS.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be converted to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1928 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1216 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3142

To obtain current elevation, description, and/or location information for each marker shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit their website at www.ngs.noaa.gov.

Base map information shown on this FIS was acquired in digital format by the Harris Galveston Area Council and was reviewed and endorsed by Harris County.

Copyright notices shown on this map are based on the best data available at the time of publication. Because changes in ownership or other information may have occurred since the data was published, map users should contact appropriate copyright holders to verify current copyright notices.

Please refer to the separately printed Map Index for an overview map of the County showing the location of this FIS. This community may reasonably address, and a Listing of Communities within National Flood Insurance Program areas for each community as well as a listing of the panels on which each community is located.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment (change portions of this panel), and digital versions of the FIS may be available. Contact the FEMA Map Service Center at the following street addresses and Internet address for information on all issued products available from FEMA:

Phone: 800-368-9615
FAX: 800-368-9620
www.fema.gov

If you have suggestions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-332-2337) or visit the FEMA website at www.fema.gov.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIS for this jurisdiction. The Floodway and Floodway data were transferred from the previous FIS and may have been updated to conform to those new stream channel configurations. As a result, the Flood Profiles and Floodway Data shown on the Flood Insurance Study report may reflect stream channel features that differ from what is shown on this map.

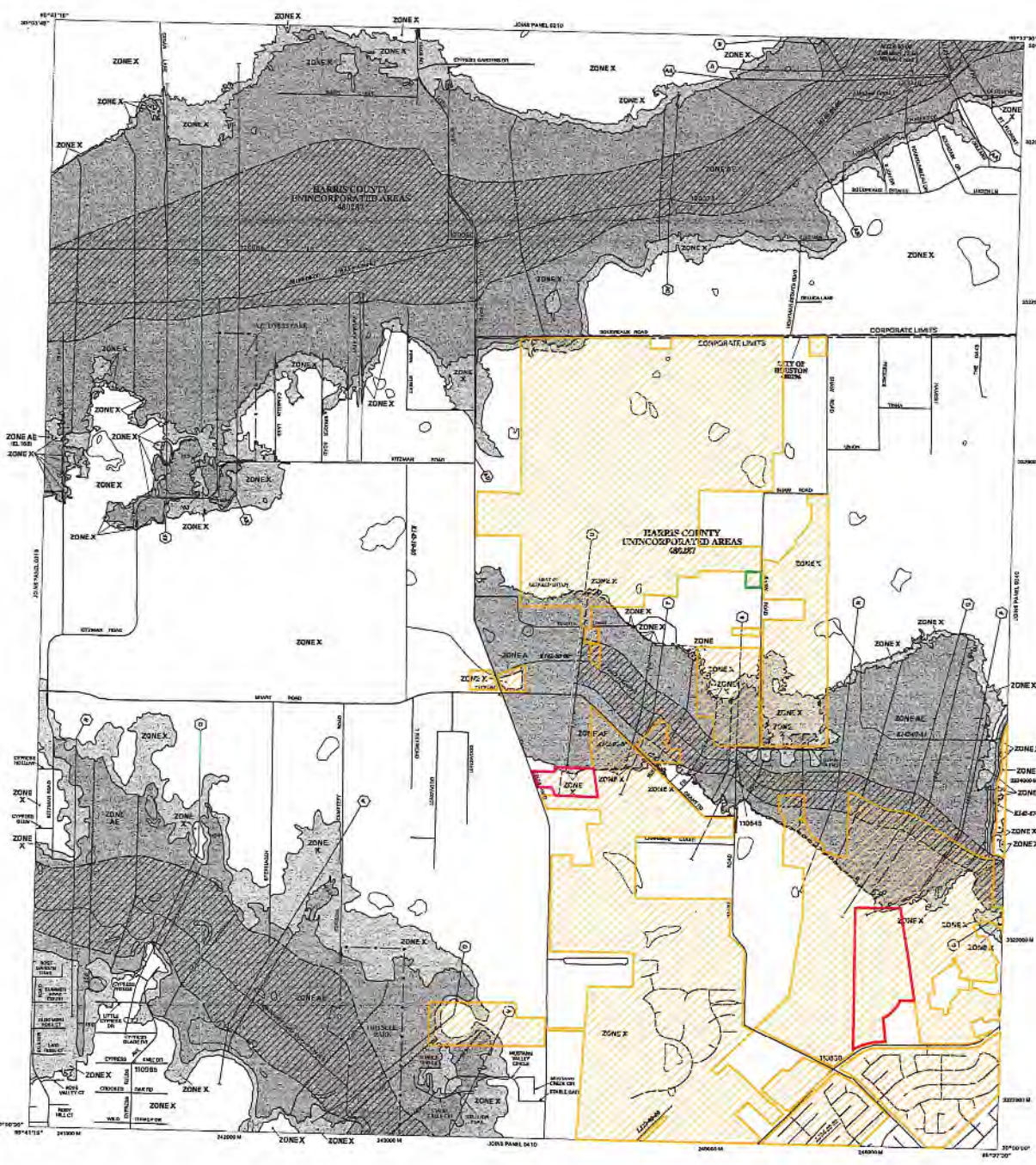
Vertical Datum Adjustment due to alterations in the 2001 adjustment.

Benchmarks shown on this map were provided by either Harris County or the National Geodetic Survey. To obtain elevation, description, and location information for benchmarks provided by Harris County, please contact the Permit Office of the Public Infrastructure Department at (713) 868-3000 or visit their website at www.ci.harriscounty-texas.gov. For information regarding the benchmarks provided by the National Geodetic Survey, please visit their website.

Some bridges and other structures shown on the detailed studied portions were not located. See accompanying flood profile for approximate elevations.

Legend

- CGW Properties Tract53
- Learning Experience Campus Tract52
- Reserve At Indian Trails Tract51
- NWHCNJUS Boundary



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT
The 1% annual chance flood (100-year flood, also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Special Flood Hazard zones include Zone AE, Zone A, Zone B, Zone C, Zone D, Zone E, Zone F, Zone G, Zone H, Zone I, Zone J, Zone K, Zone L, Zone M, Zone N, Zone O, Zone P, Zone Q, Zone R, Zone S, Zone T, Zone U, Zone V, Zone W, Zone X, Zone Y, Zone Z.

- ZONE AE: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE A: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE B: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE C: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE D: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE E: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE F: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE G: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE H: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE I: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE J: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE K: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE L: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE M: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE N: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE O: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE P: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE Q: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE R: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE S: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE T: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE U: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE V: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE W: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE X: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE Y: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.
- ZONE Z: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.

FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that will be kept free of encumbrances so that the 1% annual chance flood can be carried without substantial increases in flood height.

OTHER FLOOD AREAS
ZONE X: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.

OTHER AREAS
ZONE B: Flood depth of 1 to 3 feet (usually areas of ponding); flow from flood elevation determined.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
CBRS areas of OFAs are normally located within or adjacent to Special Flood Hazard Areas.

OTHERWISE PROTECTED AREAS (OPAs)
OPAs are areas that are not subject to flooding by the 1% annual chance flood.

- Floodway boundary
- Zone boundary
- CBRS and OFA boundary
- Boundary of Special Flood Hazard Area of different FIS
- Base Flood Elevation and water elevation
- Sea Level
- High Water
- Great Salt Lake
- Traverse Line
- Designated coordinate monument in the North American Datum of 1983
- 421/2 M
- 1000-foot interval datum
- 500-foot grid line
- North arrow
- Scale bar
- Map scale

MAP REPOSITORY
FEMA's National Flood Insurance Program (NFIP) is available in digital format. For more information on the NFIP, visit our website at www.fema.gov.

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP: SEPTEMBER 28, 2001

EFFECTIVE DATE OF REVISIONS TO THIS PANEL
EFFECTIVE DATE OF REVISIONS TO THIS PANEL: SEPTEMBER 28, 2001

REVISIONS TO THIS PANEL
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NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 220 OF 1160

2001 MAP INDEX FOR PANEL LAYOUT

DATE: 09/28/01

PREPARED BY: NATIONAL FLOOD INSURANCE PROGRAM

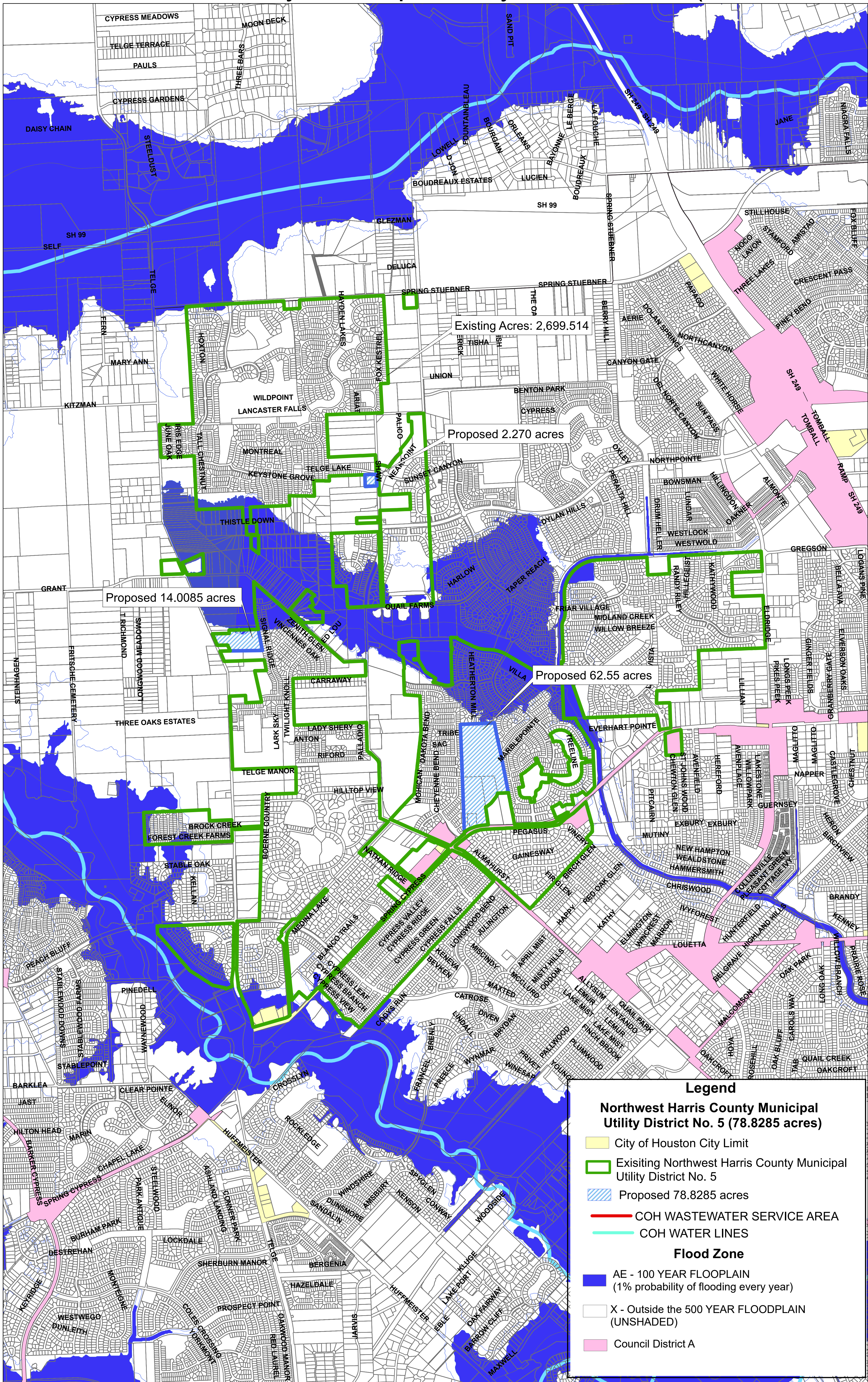
DATE: 09/28/01

MAP NUMBER 4201C0220L

MAP REVISED: JUNE 18, 2007

Federal Emergency Management Agency

Northwest Harris County Municipal Utility District No. 5 (78.8285 acres)



Existing Acres: 2,699.514

Proposed 2.270 acres

Proposed 14.0085 acres

Proposed 62.55 acres

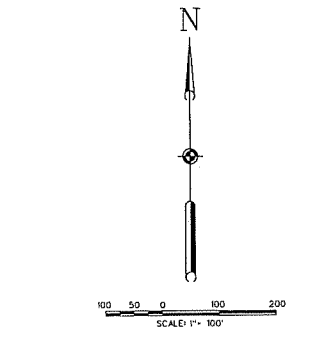
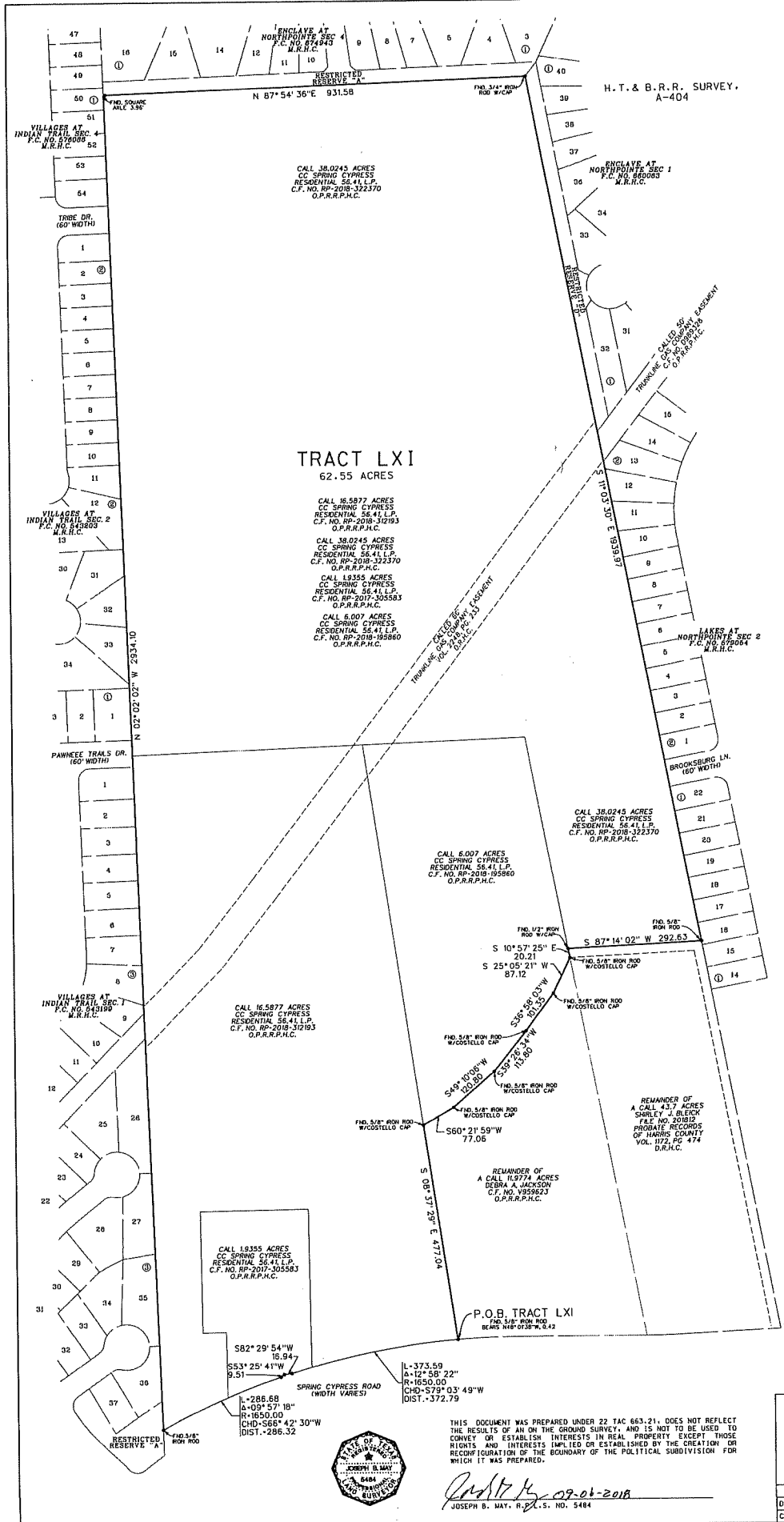
Legend

Northwest Harris County Municipal Utility District No. 5 (78.8285 acres)

- City of Houston City Limit
- Existing Northwest Harris County Municipal Utility District No. 5
- Proposed 78.8285 acres
- COH WASTEWATER SERVICE AREA
- COH WATER LINES

Flood Zone

- AE - 100 YEAR FLOODPLAIN (1% probability of flooding every year)
- X - Outside the 500 YEAR FLOODPLAIN (UNSHADED)
- Council District A



- NOTES:
1. METES AND BOUNDS PREPARED BY SEPARATE DOCUMENT.
 2. NO MONUMENTS WERE SET OR FOUND UNLESS OTHERWISE NOTED.
 3. TRACT LEXI ALL BEARINGS ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, N.A.D. 1983, SOUTH CENTRAL ZONE.

TRACT LXI
62.55 ACRES

ANNEXATION EXHIBIT
OF
TRACT LXI
CALLED 62.55 ACRES
FOR
NORTHWEST HARRIS COUNTY
MUNICIPAL UTILITY DISTRICT NO. 5

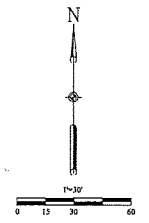
Costello Engineering and Surveying
2107 CityWest Blvd., Third Floor
Houston, Texas 77042
(713) 763-7788 (713) 763-3680, Fax
TBPE FIRM REG. No. 280
TBPLS FIRM REG. No. 100486

THIS DOCUMENT WAS PREPARED UNDER 22 TAC 663.21, DOES NOT REFLECT THE RESULTS OF AN ON THE GROUND SURVEY, AND IS NOT TO BE USED TO CONVEY OR ESTABLISH INTERESTS IN REAL PROPERTY EXCEPT THOSE RIGHTS AND INTERESTS IMPLIED OR ESTABLISHED BY THE CREATION OR RECONFIGURATION OF THE BOUNDARY OF THE POLITICAL SUBDIVISION FOR WHICH IT WAS PREPARED.

Joseph B. May, R.S.
JOSEPH B. MAY, R.S., S. NO. 5484



DRAWN BY: JPM	DWG. NO.: 2003025011 SURVEY.DGN	SCALE: 1" = 100'
CHECKED BY: JEM	JOB NO.: 2003025-ANX-10-011	DATE: 09-05-2018
		SHEET NO: 1 OF 1



- NOTES:
1. METES AND BOUNDS PREPARED BY SEPARATE DOCUMENT.
 2. NO MONUMENTS WERE SET OR FOUND UNLESS OTHERWISE NOTED.
 3. TRACT LXII ALL BEARINGS ARE REFERENCED TO THE NORTH LINE OF THE 2.270 ACRE TRACT.

THIS DOCUMENT WAS PREPARED UNDER 22 FAC 563.21. DOES NOT REFLECT THE RESULTS OF AN O.D. ON THE GROUND SURVEY, AND IS NOT TO BE USED TO CONVEY OR ESTABLISH INTERESTS IN REAL PROPERTY EXCEPT THOSE RIGHTS AND INTERESTS IMPLIED OR ESTABLISHED BY THE CREATION OR RECONFIGURATION OF THE BOUNDARY OF THE POLITICAL SUBDIVISION FOR WHICH IT WAS PREPARED.

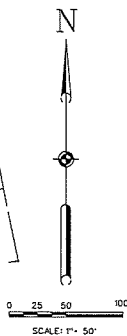
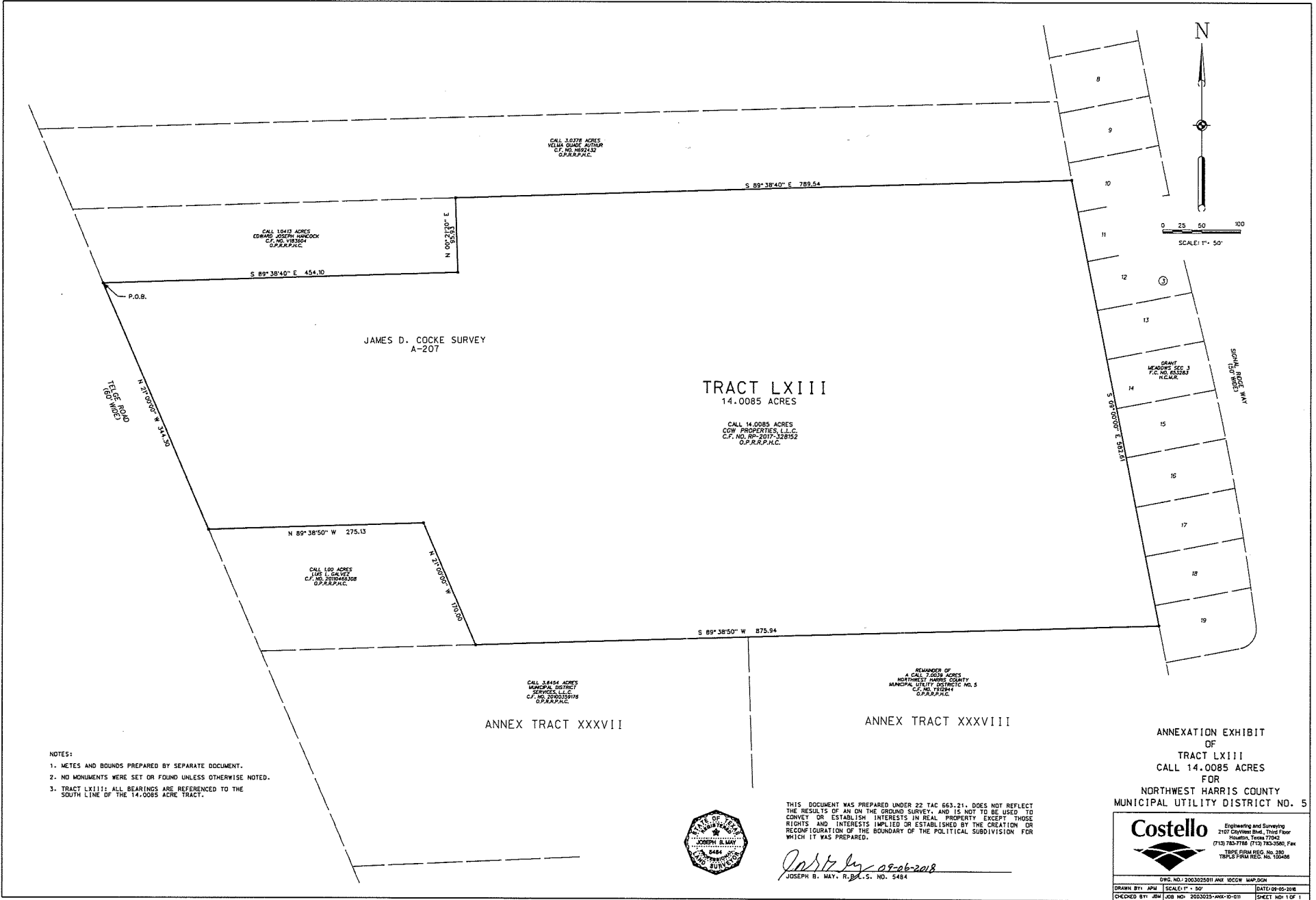
Joseph B. May
JOSEPH B. MAY A.P.L.S. NO. 5484



ANNEXATION EXHIBIT
OF
TRACT LXII
CALLED 2.270 ACRES
FOR
NORTHWEST HARRIS COUNTY
MUNICIPAL UTILITY DISTRICT NO. 5

Costello Engineering and Surveying
2107 CYPRESS LANE, Third Floor
HOUSTON, TEXAS 77042
(713) 763-7788 (713) 763-3550, Fax
TYPE FIRM REG. NO. 280
TRIPLE FIRM REG. NO. 100489

DRAWN BY: JPM	TRAC. NO.: TRACT 42 MAP 620	SCALE: 1" = 30'
CHECKED BY: JPM	JOB NO.: 2003023-ANK-10-01	DATE: 08-05-2018
		SHEET NO.: 1 OF 1



JAMES D. COCKE SURVEY
A-207

TRACT LXIII
14.0085 ACRES

CALL 14.0085 ACRES
COV. PROPERTIES, L.L.C.
C.F. NO. RP-2017-328152
O.P.R.R.P.H.C.

CALL 10413 ACRES
EDWARD JOSEPH HANCOCK
C.F. NO. 2016-004
O.P.R.R.P.H.C.

CALL 3.0378 ACRES
VELIA QUAKE BUTLER
C.F. NO. 2002132
O.P.R.R.P.H.C.

N 89° 38' 50" W 275.13

CALL 100 ACRES
TAMU 100 ACRES
C.F. NO. 2010-04008
O.P.R.R.P.H.C.

N 09° 21' 00" E
56.2133

S 89° 38' 40" E 454.10

S 89° 38' 40" E 789.54

11 1/2 FT. WIDE ROAD
N 27° 00' 00" W 344.30

N 27° 00' 00" W 100.00

S 89° 38' 50" W 875.94

S 00° 00' 00" E 282.10

10
11
12
13
14
15
16
17
18
19

DRIFT
MEMORIAL SEC. 3
T.C. NO. 100147
REAR.

SOUTH BOUND WAY

ANNEX TRACT XXXVII

ANNEX TRACT XXXVIII

CALL 3.8154 ACRES
MUNICIPAL DISTRICT
SERVICES, L.L.C.
C.F. NO. 2003020196
O.P.R.R.P.H.C.

REMAINDER OF
A CALL 7.0038 ACRES
NORTHWEST HARRIS COUNTY
MUNICIPAL UTILITY DISTRICT NO. 5
C.F. NO. 100294
O.P.R.R.P.H.C.

NOTES:

1. METES AND BOUNDS PREPARED BY SEPARATE DOCUMENT.
2. NO MONUMENTS WERE SET OR FOUND UNLESS OTHERWISE NOTED.
3. TRACT LXIII: ALL BEARINGS ARE REFERENCED TO THE SOUTH LINE OF THE 14.0085 ACRE TRACT.

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Joseph B. May
JOSEPH B. MAY, R.E., S. NO. 5484

ANNEXATION EXHIBIT
OF
TRACT LXIII
CALL 14.0085 ACRES
FOR
NORTHWEST HARRIS COUNTY
MUNICIPAL UTILITY DISTRICT NO. 5



ENGINEER AND SURVEYOR	DATE: 09-05-2018
DRAWN BY: JPM	CHECKED BY: JPM
SCALE: 1" = 50'	JOB NO: 2003025-ARK-10-011
SHEET NO: 1 OF 1	