

March 2, 2023

Marguerite Meadow, LLC 142 County Road 222, Bay City Texas, 77414

Subject: Traffic Trip Generation Memo – Meadow Oaks

19-Acre Development, 59 Single Family Lots

To Whom It May Concern,

Meadow Oaks Development is proposed on the north side of Marguerite Street between Avenue F and Nichols Avenue. The existing site is vacant. The proposed development will include 59 Single Family Homes and is assumed to be completed in 2024.

Access to the proposed site will be provided by one full access roadway on Marguerite Street, Meadow Oak Boulevard, and one proposed emergency access only roadway on Pearl Street.

Trip Generation and Distribution:

The Institute of Transportation Engineers (ITE), Trip Generation, 11th Edition, was used to estimate the traffic that will be generated by the proposed development by using Online Traffic Impact Study Software (OTISS). The following analysis periods were utilized:

- Weekday
- Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 AM
- Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 PM

Table 1 provides a summary of the estimated trips generated for the proposed development. No trip reductions were applied.

Table 1 – Trip Generation Volumes

		24-Hour AM Peak					PM Peak		
Proposed Land Use (ITE code)	Size	Two-Way Volume	Enter	Exit	Total	Enter	Exit	Total	
Single-Family Detached Housing (210)	59 Dwelling Units	620	12	35	47	38	22	60	

The directional distribution of the site generated trips was determined based on expected travel patterns in the area. Trip origins/destinations for the proposed development are expected to be 100% to/from the west via Marguerite Street from Avenue F.

TxDOT's Traffic Count Database System (TCDS) provides a historical 24-hour volume count of 4,058 vehicles, 280 vehicles in the AM Peak Hour (7:15-8:15 AM) and 373 vehicles in the PM Peak Hour (4:30-5:30 PM) on Marguerite Street east of Avenue F in 2017. A 2% annual compound growth rate was applied to the 2017 volume data to determine 24-hour, AM Peak Hour and PM Peak Hour volumes for the 2024 development completion year. The Trip Distribution Percentages, Peak Hour Site Generated Traffic Volumes, and Peak Hour Projected Volumes are attached.



The traffic impacts from the proposed development on the surrounding roadways are expected to be minimal.

Best Regards,

EMILY F. MORAN

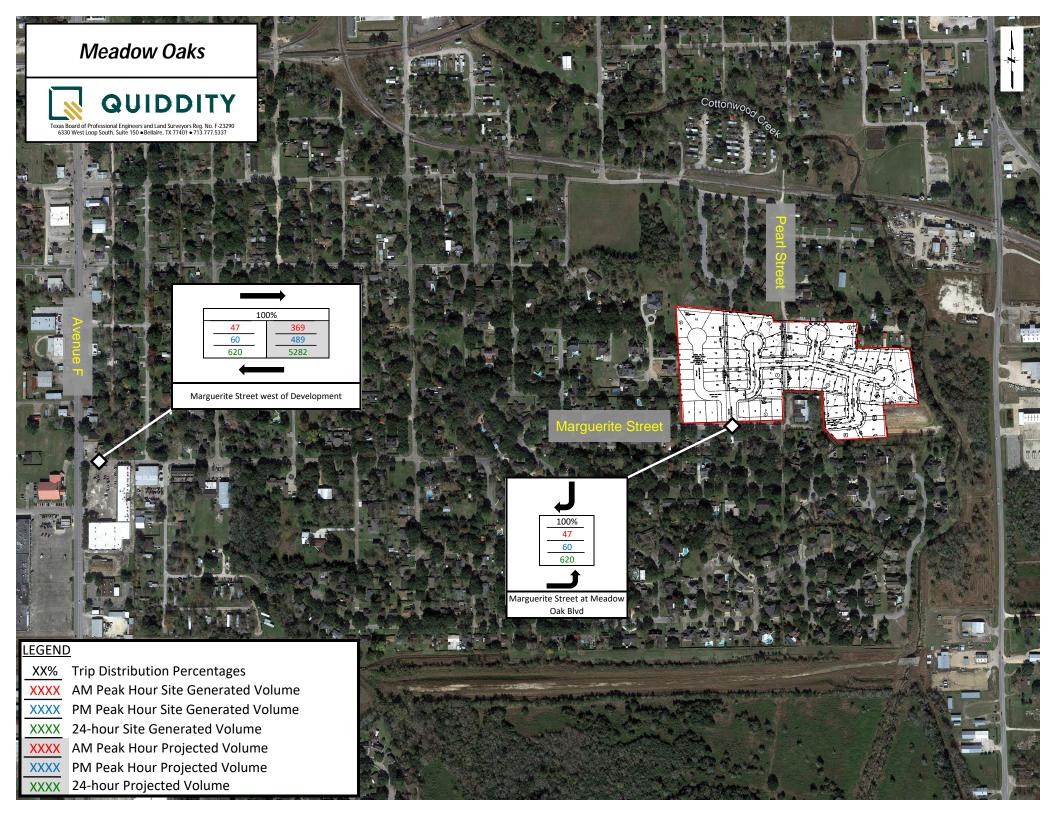
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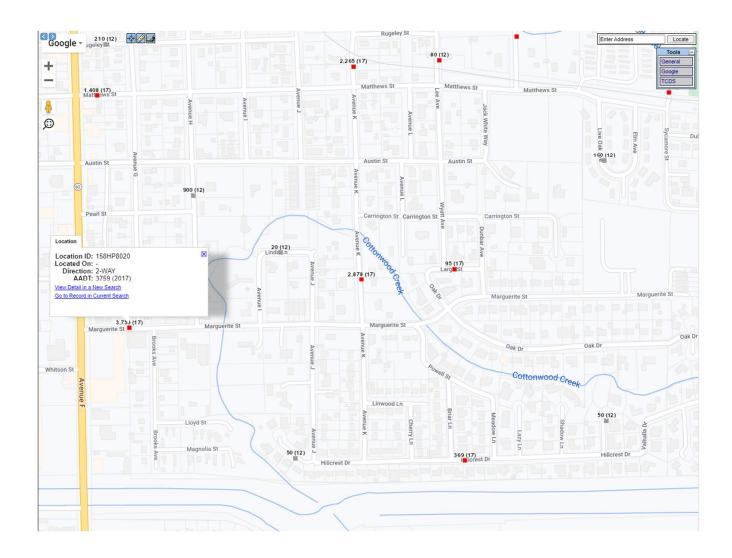
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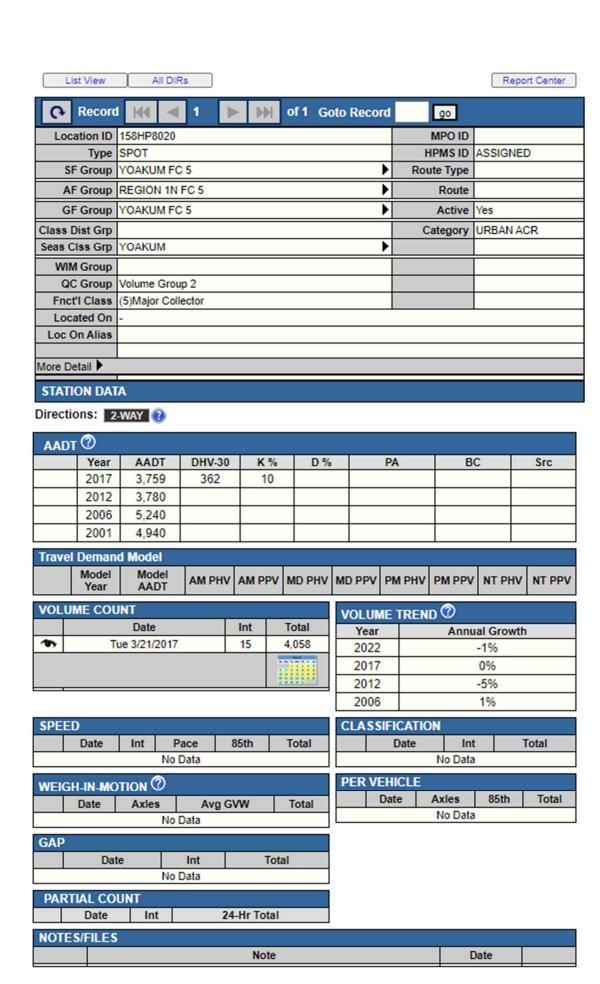
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3/2/2023

Emily F. Moran, P.E., PTOE Project Manager, Traffic Engineering







Volume Count Report

LOCATION INFO					
Location ID	158HP8020				
Туре	SPOT				
Fnct'l Class	5				
Located On	-				
Direction	2-WAY				
County	Matagorda				
Community	Bay City				
MPO ID					
HPMS ID	ASSIGNED				
Agency	Texas DOT				

COUNT DATA INF	:0
Count Status	Accepted
Holiday	No
Start Date	Tue 3/21/2017
End Date	Wed 3/22/2017
Start Time	2:30:00 PM
End Time	2:30:00 PM
Direction	
Notes	
Station	
Study	
Speed Limit	
Description	
Sensor Type	Axle/Tube
Source	
Latitude,Longitude	28.970095, -95.969203

INTERVAL:15-MIN						
	15	Hourly				
Time	1st	2nd	3rd	4th	Count	
0:00-1:00	9	5	7	2	23	
1:00-2:00	3	3	1	1	8	
2:00-3:00	1	2	2	0	5	
3:00-4:00	2	3	1	9	15	
4:00-5:00	8	5	11	4	28	
5:00-6:00	10	14	16	10	50	
6:00-7:00	23	26	23	28	100	
7:00-8:00	57	62	77	80	276	
8:00-9:00	61	36	36	55	188	
9:00-10:00	40	45	53	51	189	
10:00-11:00	54	61	49	46	210	
11:00-12:00	49	71	76	55	251	
12:00-13:00	83	65	53	49	250	
13:00-14:00	78	70	78	65	291	
14:00-15:00	64	51	75	59	249	
15:00-16:00	66	75	85	96	322	
16:00-17:00	85	84	89	87	345	
17:00-18:00	102	95	84	81	362	
18:00-19:00	87	62	64	66	279	
19:00-20:00	59	57	69	54	239	
20:00-21:00	39	44	28	42	153	
21:00-22:00	32	32	35	19	118	
22:00-23:00	14	29	19	12	74	
23:00-24:00	80	10	5	10	33	
Total	4,058					
AADT	3,759					
AM Peak	11:15-12:15 285					
PM Peak	16:30-17:30 373					

Count Navigation: | < | < Count Type: VOLUME V

Directions: 2-WAY (2)















View Calendar View in Excel

Bar Graph

Line Graph

Weekly Report Hourly Volume By Lane

Compare Count

State of Texas County of Matagorda City of Bay City

We, James Bruce Grover and John Hawkins Peden, members, acting by and through, Marquerite Meadow, LLC., owners of the 7.29 Ac. tract described in the above and foregoing map of MEADOW OAKS PHASE I SUBDIVISION, and do hereby make and establish said subdivision and development plat of said property according to all lines, dedications, restrictions and notations on said maps or plat and hereby dedicate to the use of the public forever, all streets (except those streets designated as private streets), alleys, parks, water courses, drains, easements and public places shown thereon for the purposes and considerations therein expressed; and do hereby bind myself (or ourselves), my (or our) heirs and assigns to warrant and forever defend the title to the land so dedicated.

WITNESS my (or our) hand in the City of Bay City, Texas, this 12 day of 2.17.

BEFORE ME, the undersigned authority, on this day personally appeared James Bruce Grover, member, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and considerations therein set forth.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this day of the same d

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BEFORE ME, the undersigned authority, on this day personally appeared John Hawkins Peden, member, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and considerations therein set forth.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 12 day of December, 2017 CLARENCE DAVID HOLUSEC NOTARY PUBLIC STATE OF TEXAS CLARENCE DAVID HOLUER NOTARY PUBLIC STATE OF "EXAS IQ # 13 115592-8 My Cumm Expires 35-02-262

On behalf of the City of Bay City, Texas, I hereby certify that this plat and subdivision (or development On behalf of the City of Bay City, lexxes, I nerely certify that this plut and subulysion of development plat) of MEADOW OAKS PHASE I SUBDIVISION was approved in conformance with the laws of the State of Texas and the ordinances of the City of Bay City as shown hereon; and that the dedications on this plat are hereby accepted by the City of Bay City; and authorize the recording of this plat this 1735 day of December 1, 2011, provided however, this approval shall be invalid, null and

void unless this plat is filed with the County Clerk of Magagada County within six (6) months.

Mark Bricker, Mayor

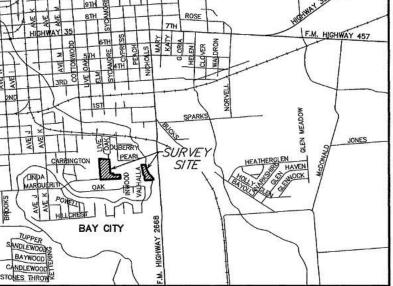
David Holubec, City Secretary

I, Janet Hickl, Clerk of the County of Matagorda County, Texas, do hereby certify that the foregoing Plat was filed for record in my office on the day of December 20 17 at 10:45 o'clock 0 m., in Plat File Number 574A

Count Stake by Deputy

This is to certify that the Bay City Planning Commission of the City of Bay City, Texas has approved this





VICINITY MAP (SCALE: 1" = 2,000')

Lyndsay J. Evans, a Professional Engineer registered in the State of Texas, do hereby certify that this plat meets all requirements of Fort Bend County, and the City of Rosenberg, Texas.

Lyndsoy J. Evans, Professional Engineer Texas License No. 126735 T.B.P.E. Firm Registration No. F—439



I, Chris D. Kalkomey, am authorized under the laws of the State of Texas to practice the profession of surveying and hereby certify that the above subdivision is true and correct; was prepared from an actual survey of the property made under my supervision on the ground; that all boundary corners, angle points, points of curvature and other points of reference have been marked with iron pipes having a minimum outside diameter of five-eights (5/8) inch and length of not less than three (3) feet.



GENERAL NOTES:

This tract lies within Zones "B" and "C" of the Flood Insurance Rate Map, Community-Panel No. 4854550005, Suffix "C" dated June 5, 1985, for Bay City, Texas.

Zone "A" is defined as Special Flood Hazard Areas inundated by 100-year flood. No base flood elevations determined.

Zone "C" is defined as areas of minimal flooding.

Zone "B" is defined as areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths of less than 1 foot or where the contributing drainage area is less than 1 square mile; or areas protected by levees from base flood.

This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor.

The location of the flood zone lines shown hereon were determined by scaling from said FIRM map. The actual location as determined by elevation contours may differ. Jones|Carter assumes no liability as to the accuracy of the location of the flood zone limits.

- All visible easements and easements of records affecting these tracts as reflected upon title report from Alamo Title Insurance Co., G.F. Number 201603095, dated March 7, 2016, shown hereon. Surveyor has relied upon the above-mentioned title commitment, with regard to any easements, setbacks, restrictions, or rights-of-way affecting the subject property. No additional research regarding the existence of easements, setbacks, restrictions, rights-of-way, or other matters of record, has been performed by the surveyor.
- 3. Elevations shown hereon on are based upon GPS observations of NGS Benchmark L-51, with a published
- The coordinates shown hereon are Texas State Plane Coordinates, South Central Zone (Grid NAD83) and may be brought to surface by applying the following combined scale factor of 0.99988524
- Project Benchmark: TBM "A" A RR Spike Set in PP being 9'± S from the SW boundary corner of subject tract = 48.63' (NAVD88).

Project Benchmark: TBM "B" - A Cotton Picker Spindle Set in PP being 12'± W from the NE boundary corner of subject tract = 50.29' (NAVD88).

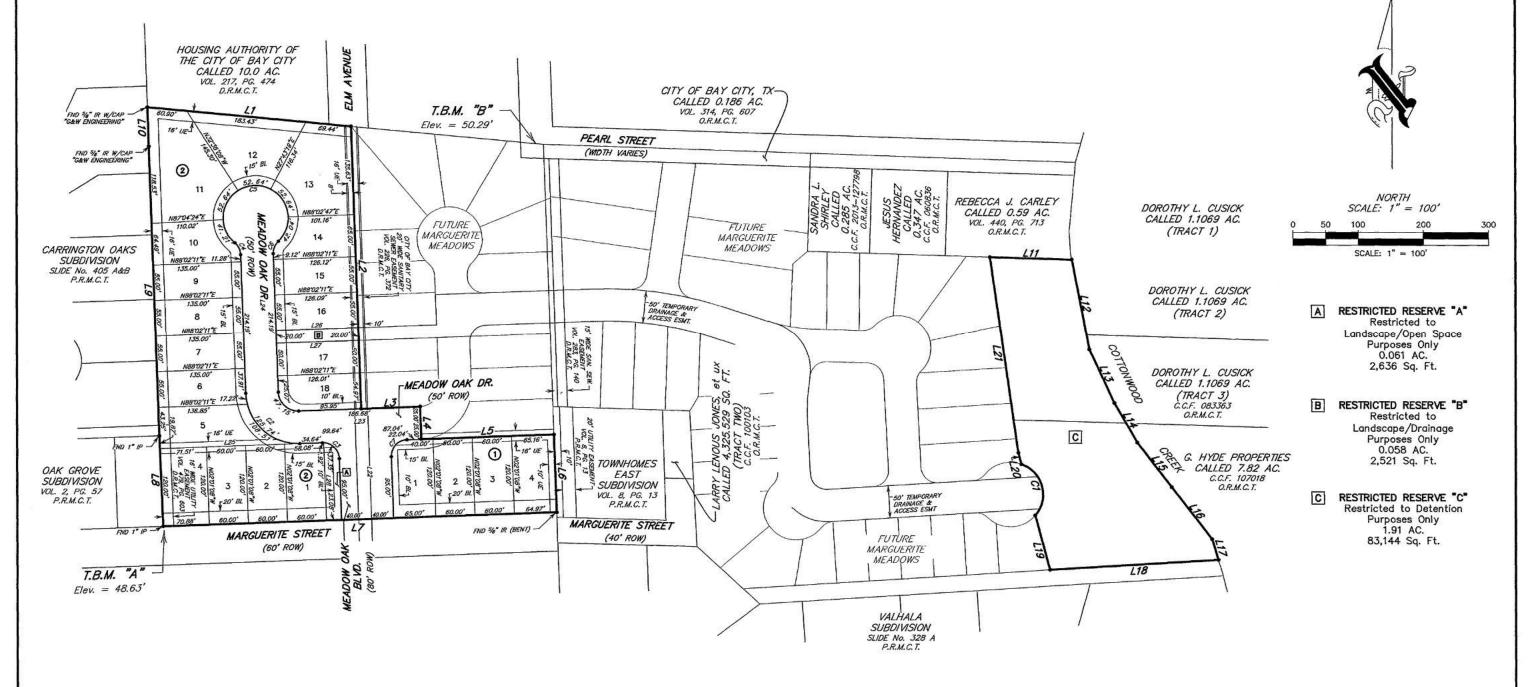
- 6. Elevations used for delineating contour lines are based upon U.S.C.&G.S. datum. NAVD88.
- Five-eights inch (5/8") iron rods three feet (3") in length are set on all perimeter boundary corners, all angle points, all points of curvature and tangency, and all block corners, unless otherwise noted.
- No owner of the land subject to an easement may place, build or construct any permanent building, structure or obstruction of any kind over, under or upon the easement, provided that such owner may cross or cover the easement with a paved driveway/parking lot under the following conditions, the driveway shall be jointed at the boundary line of the easement to limit the amount of paving that must be removed to provide access, and there shall be no obligation of the city to replace/repair any paving
- The top of all floor slabs shall be a minimum of 48.70 feet above mean sea level. The top of slab elevation at any point on the perimeter of the slab shall not be less than two (2) feet above natural
- 10. All property to drain into the drainage easement only through an approved drainage structure.
- Ownership and maintenance of the detention facilities shall be with the Meadow Oaks Subdivision Property Owners Association.
- 12. This plat lies within the City of Bay City.

FINAL PLAT MEADOW OAKS PHASE 1 SUBDIVISION

22 LOTS, 2 BLOCKS, 3 RESERVES BEING 7.29 ACRES IN THE ELISHA HALL LEAGUE, ABSTRACT 45 CITY OF BAY CITY MATAGORDA COUNTY, TEXAS NOVEMBER 29, 2017

MARGUERITE MEADOW, LLC 142 CR 222 BAY CITY, TEXAS 77414

ENGINEER/SURVEYOR: JONES CARTER



CURVE	RADIUS	DELTA ANGLE	ARC LENGTH	CHORD BEARING	CHORD LENGTH	TANGENT	LINE	BEARING	DISTANCE
C1	50.00'	110'36'16"	96.52	N14'55'55"W	82.22	72.22	L1	S84*35'41"E	313.77
C2	55.00'	90'03'19"	86.45	N46'59'28"W	77.82	55.05'	L2	S01'55'40"E	435.60'
C3	25.00'	90,00,00,	39.27	N47'01'08"W	35.36'	25.00'	L3	N87*58'52"E	90.73
C4	25.00'	48"11"23"	21.03'	N26'03'30"W	20.41	11.18'	L4	S02'01'08"E	50.00'
C5	50.00'	276"22'46"	241.19'	N88'02'11"E	66.67'	44.72	L5	N87*58'52"E	203.12
C6	25.00'	4811'23"	21.03'	N22'07'53"E	20.41	11.18'	L6	S01*55'40"E	120.00'
C7	25.00'	90,00,00,	39.27	S42*58'52"W	35.36'	25.00'	L7	S87*58'52"W	603.93'
							L8	N0219'10"W	139.87
							1.0	and a second and the	

L1	S84*35'41"E	313.77
L2	S01'55'40"E	435.60'
L3	N87*58'52"E	90.73'
L4	S02'01'08"E	50.00'
L5	N87*58'52"E	203.12
L6	S01*55'40"E	120.00'
L7	S87*58'52"W	603.93'
L8	N0219'10"W	139.87
L9	N01'57'49"W	446.27'
L10	N01°53'53"W	60.01
L11	S88*10'05"E	125.58'
L12	S10°55'35"E	141.71
L13	S24'56'42"E	90.45'
L14	S3019'32"E	70.11
L15	S37'23'42"E	86.69
L16	S37*38'35"E	101.32'
L17	S16'33'53"E	33.49'
L18	S86'30'30"W	259.23'
L19	N14'55'55"W	87.08
L20	N14'55'55"W	18.17'
L21	N08'06'14"W	304.57
L22	N02'01'08"W	145.00
L23	N87'58'52"E	186.68
L24	N01°57'49"W	270.09'
L25	N87*58'52"E	214.95
L26	N88'02'11"E	126.05
L27	N88*02'11"E	126.04
L28	N02*01'08"W	119.93'

_EGEND

D.R.M.C.T. - DEED RECORDS MATAGORDA COUNTY, TEXAS P.R.M.C.T. - PLAT RECORDS MATAGORDA COUNTY, TEXAS

PG. - PAGE

VOL. - VOLUME

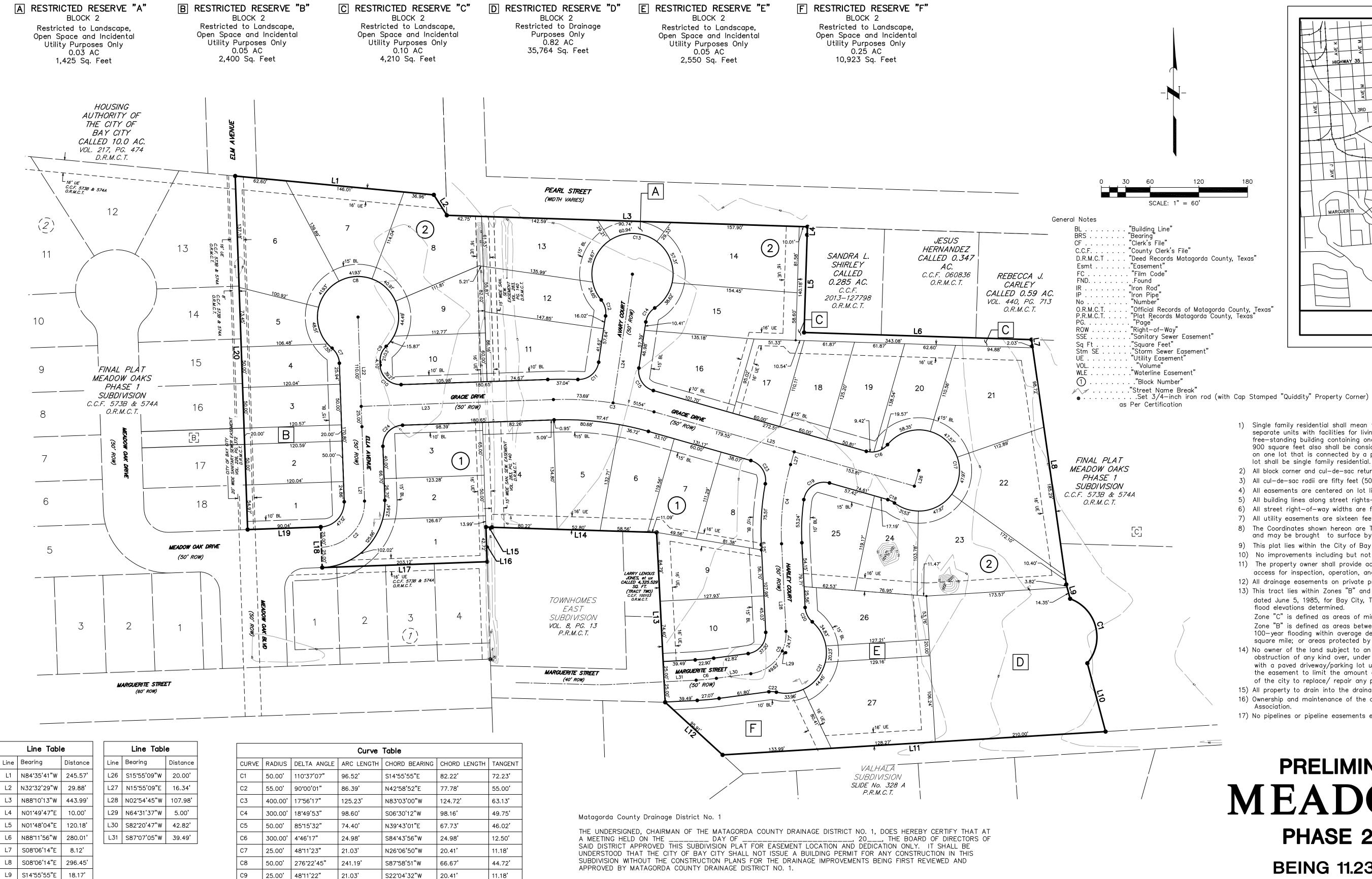
- SET 3/4" IR W/CAP "JONES|CARTER"

FINAL PLAT **MEADOW OAKS PHASE 1 SUBDIVISION**

22 LOTS, 2 BLOCKS, 3 RESERVES BEING 7.29 ACRES IN THE ELISHA HALL LEAGUE, ABSTRACT 45 CITY OF BAY CITY MATAGORDA COUNTY, TEXAS NOVEMBER 29, 2017

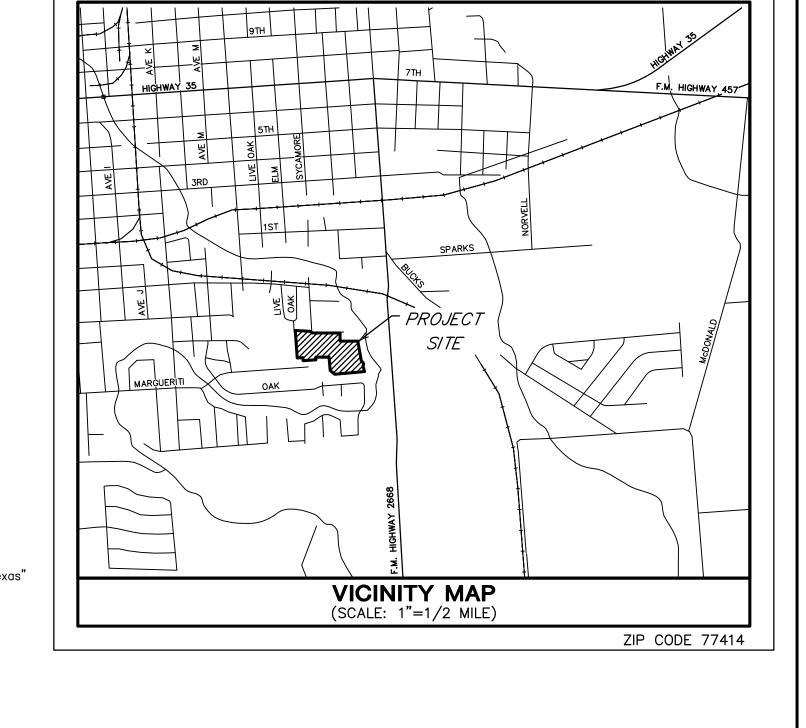
MARGUERITE MEADOW, LLC 142 CR 222 BAY CITY, TEXAS 77414

ENGINEER/SURVEYOR: JONES CARTER



BARRETT FRANZ, CHAIRMAN

THE ABOVE HAS SIGNED THESE PLANS AND/OR PLAT BASED ON THE RECOMMENDATION OF THE DISTRICT'S ENGINEER WHO HAS REVIEWED ALL SHEETS PROVIDED AND FOUND THEM TO BE IN GENERAL COMPLIANCE WITH THE DISTRICT'S "RULES AND REGULATIONS". THIS APPROVAL IS ONLY VALID FOR THREE HUNDRED SIXTY—FIVE (365) CALENDAR DAYS. AFTER THAT TIME RE-APPROVAL IS REQUIRED. PLEASE NOTE, THIS DOES NOT NECESSARILY MEAN THAT ALL THE CALCULATIONS PROVIDED IN THESE PLANS AND/OR PLATS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. PLANS SUBMITTED HAVE BEEN PREPARED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE ENGINEERING IN THE STATE OF TEXAS AND PLAT HAS BEEN SIGNED AND SEALED BY A REGISTERED PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH CONVEYS THE ENGINEER'S AND/OR SURVEYOR'S RESPONSIBILITY AND ACCOUNTABILITY.



- 1) Single family residential shall mean the use of a lot with one building for and containing not more than two separate units with facilities for living, sleeping, cooking and eating therein. A lot upon which is located a free—standing building containing one dwelling unit and a detached secondary dwelling unit of not more than 900 square feet also shall be considered single family residential. A building that contains one dwelling unit on one lot that is connected by a party wall to another building containing one dwelling unit on an adjacent lot shall be single family residential.
- 2) All block corner and cul-de-sac return to tangent radii are twenty-five feet (25').
- 3) All cul-de-sac radii are fifty feet (50'), unless otherwise indicated.
- 4) All easements are centered on lot lines unless shown otherwise.
- 5) All building lines along street rights—of—way as shown on the plat.
- 6) All street right—of—way widths are fifty feet (50') wide unless otherwise noted.
- 7) All utility easements are sixteen feet (16') wide unless otherwise noted.
- 8) The Coordinates shown hereon are Texas South Central Zone no. 4202 State Plane Grid Coordinates (NAD83) and may be brought to surface by applying the following combined scale factor of 0.99988524.
- 9) This plat lies within the City of Bay City full purpose jurisdiction.
- 10) No improvements including but not limited to buildings, fences, or landscaping shall be allowed in a drainage easement.
- 11) The property owner shall provide access to drainage and utility easements as may be necessary and shall not prohibit
- access for inspection, operation, and maintenance. 12) All drainage easements on private property shall be maintained by the property owner or his/her assigns.
- 13) This tract lies within Zones "B" and "C" of the Flood Insurance Rate Map, Community—Panel No.4854550005, Suffix "C" dated June 5, 1985, for Bay City, Texas. Zone "A" is defined as Special Flood Hazard Areas inundated by 100-year flood elevations determined.
- Zone "C" is defined as areas of minimal flooding.
- Zone "B" is defined as areas between limits of the 100—year flood and 500—year flood; or certain areas subject to 100—year flooding within average depths of less than 1 foot or where the contributing drainage area is less than 1 square mile; or areas protected by levees from base flood.
- 14) No owner of the land subject to an easement may place, build or construct any permanent building, structure or obstruction of any kind over, under or upon the easement, provided that such owner may cross or cover the easement with a paved driveway/parking lot under the following conditions. The driveway shall be joined at the boundary lines of the easement to limit the amount of paving that must be removed to provide access, and there shall be no obligation of the city to replace/ repair any paving removed in the exercise of this easement.
- 15) All property to drain into the drainage easement only through an approved drainage structure.
- 16) Ownership and maintenance of the detention facilities shall be with the Meadow Oaks Subdivision Property Owners
- 17) No pipelines or pipeline easements exist within the boundaries of this plat.

PRELIMINARY PLAT OF MEADOW OAKS

PHASE 2 SUBDIVISION

BEING 11.23 ACRES IN THE ELISHA HALL LEAGUE, A-45 CITY OF BAY CITY MATAGORDA COUNTY, TEXAS

2 BLOCKS 6 RESERVES

JANUARY 2023

MARGUERITE MEADOW, LLC 142 CR 222 BAY CITY, TEXAS 77414 979-245-2245



25.00' 90'00'00"

25.00' | 83'29'16"

C12 25.00' 48'11'23"

C14 25.00' 48'11'23"

C15 | 25.00' | 82'37'01"

C16 | 25.00' | 66'25'19"

C17 | 50.00' | 267°27'41"

C18 | 25.00' | 21°02'22"

C19 | 25.00' | 97**'**44'20"

C20 | 25.00' | 46'30'53"

C21 50.00' 152'56'03"

C22 | 25.00' | 21'09'38"

C23 25.00' 84**°**28'50"

C24 | 25.00' | 90°00'00"

C13 | 50.00' | 276**'**22'46"

39.27

36.43

21.03

36.05

28.98

9.18'

42.65

20.30

9.23

36.86

39.27

133.46

233.40'

S47°01'09"E

N50°16'47"E

N15**°**33'32"W

N81°27'51"W

S32°37'51"W

S32°46'21"E

N72°42'29"E

N06'46'20"W

N63'33'40"W

S57°02'59"W

S26°10'11"E

N27'02'24"E

N87°04'24"W

N31°50'26"W

S42°58'51"W

35.36

33.29

33.01

27.39

72.26

37.66

19.74

25.00'

22.31

11.18'

44.72

11.18'

21.97

16.37

52.27

4.64'

28.63

10.74

207.74

4.67'

22.70

25.00

L10 N14.55,55,W 87.08

L13 | S02°52'55"E | 209.46

L14 | S88°13'14"E | 202.67

L16 | N01°56'23"W | 42.72'

L17 | N87°58'52"E | 203.12'

L18 | S02°01'10"E | 50.00'

L19 N87'58'52"E 90.04'

L21 | S02°01'09"E | 91.70'

L22 | S02'01'09"E | 135.00'

L23 | S87°58'51"W | 236.69'

| L24 | S08°32'09"W | 160.58'

L25 N74°04'51"W 333.36'

L12 | S47°27'51"E |

L15 | S88°14'20"E |

N86°30'29"E | 472.26