



Mayor Oscar D. Montoya
Commissioner Joe Martinez
Commissioner Armando Garcia

Commissioner Rolando Garcia
Mayor Pro-Tem Dr. Ruben Saldana
Interim City Manager/Fire Chief Javier Campos

PLANNING & ZONING COMMISSION
SPECIAL MEETING
SEPTEMBER 9, 2026 – 5:00 P.M.
MERCEDES CITY HALL – COMMISSION CHAMBERS
400 S. OHIO AVE., MERCEDES, TX 78570

1. Call Meeting to Order
2. Establish Quorum
3. Invocation
4. Pledge of Allegiance
5. Open Forum
6. Approval of Minutes for Meeting(s) held on July 30, 2026
7. Rezone Request for South Campacuas Addn Ft 132 8.53ac from “RMH” Mobile Home to Class “LI” Light Industrial District
8. Subdivision: Final Approval for Redstone Heights
9. Adjournment

Notice is hereby given that the City Commissioners of the City of Mercedes, Texas will meet in a *Special Meeting* on Wednesday, September 9, 2026 at 5:00 P.M. Said meeting will be conducted in the Commission Chambers of the City Hall located at 400 S. Ohio, Mercedes, Texas for the purpose of considering and taking formal action regarding the items listed above. This notice is given in accordance with Vernon’s Texas Codes Annotated, Texas Government Code, Section 551.001 et. Seq.

WITNESS MY HAND AND SEAL OF THE CITY THIS THE 2ND DAY OF SEPTEMBER, 2026.



Denisse Hernandez, Planning Director

ATTEST:



Joselynn Castillo, City Secretary

**Minutes
Planning & Zoning Commission
July 30, 2026 @ 5:00 P.M.**

Members Present:	Leonardo Garcia Jr. Michael L. Rivera Samuel Longoria Jr Chris Desiga	Chairman Board Member Board Member Board Member
Members Absent:	Nancy K. Garza	Vice-Chairman
Staff:	Denisse Hernandez Giselle Garcia	Planning Director Planning Admin. Assistant

1.) Call Meeting to Order.

Chairman Leonardo Garcia Jr. called the meeting to order at 5:02 p.m.

2.) Establish Quorum.

Quorum was established with 4 out of 5 members present. Vice-Chairman Nancy K. Garza was noted as absent.

3.) Invocation.

Chairman Leonardo Garcia led those present in a prayerful invocation.

4.) Pledge of Allegiance.

Board Member Samuel Longoria led those present in a reverent Pledge of Allegiance.

5.) Open Forum

Chairman Leonardo Garcia read the item.

As no one signed up to address the Board, the Chairman proceeded to the next item on the agenda.

6.) Approval of Minutes for Meeting(s) held on July 22, 2026

Chairman Leonardo Garcia read the item. After the board reviewed the minutes, Board Member Samuel Longoria made a motion to approve. Board Member Michael Rivera second the motion. The motion passed unanimously.

7.) Rezone Request for Capisallo District Lot 8 Block 65 from “N” Newly Annexed to Class “R-2” Duplex-Fourplex Residential District

Chairman Leonardo Garcia read the item. Mr. Garcia opened the Public Hearing at 5:06 PM. The Chairman closed the Public Hearing at 5:09 PM. Chairman Garcia requested the city’s recommendation, Planning Director Denisse Hernandez stated that City staff recommends approval, subject to all standard City and engineering comments. A motion was made by Board Member Michael Rivera to approve the rezone request. The motion was seconded by Board Member Samuel Longoria. The motion passed unanimously.

7.) Rezone Request for Campacuas Addn Lot 13 Block 101 from “N” Newly Annexed to Class “C-1” Apartment District

Chairman Leonardo Garcia read the item. Mr. Garcia opened the Public Hearing at 5:12 PM. Sam Vargas, a resident that lives nearby, expressed concerns regarding drainage, the potential impact of agricultural dust on families, traffic, and access to his property via an existing dirt road near a canal. City staff clarified that the rezoning is only the initial step; the developer must undergo a subdivision plat process, environmental studies, and engineering reviews, which will address drainage, fire safety, and access regulations with the county and drainage district. The Chairman closed the Public Hearing at 5:22 PM. Chairman Garcia requested the city’s recommendation, Planning Director Denisse Hernandez stated that City staff recommends approval, subject to all standard City and engineering comments. A motion was made by Board Member Michael Rivera to approve the rezone request. The motion was seconded by Board Member Samuel Longoria. The motion passed unanimously.

8.) Adjournment

Board Member Michael Rivera made a motion to adjourn. Board Member Samuel Longoria second the motion. The motion to adjourn was approved by unanimous vote at approximately 5:24 p.m.

Leonardo Garcia Jr, Chairman

Nancy K Garza, Vice-Chairman

Michael Rivera, Member

Samuel Longoria Jr, Member

Chris Desiga, Member

ATTEST:

Joselynn Castillo, City Secretary

Ordinances/Resolution

DATE: September 9, 2026

FROM: Denisse Hernandez, Planning Director

ITEM: Rezone Request for South Campacuas Addn Ft 132 8.53ac from "RMH" Mobile Home to Class "LI" Light Industrial District

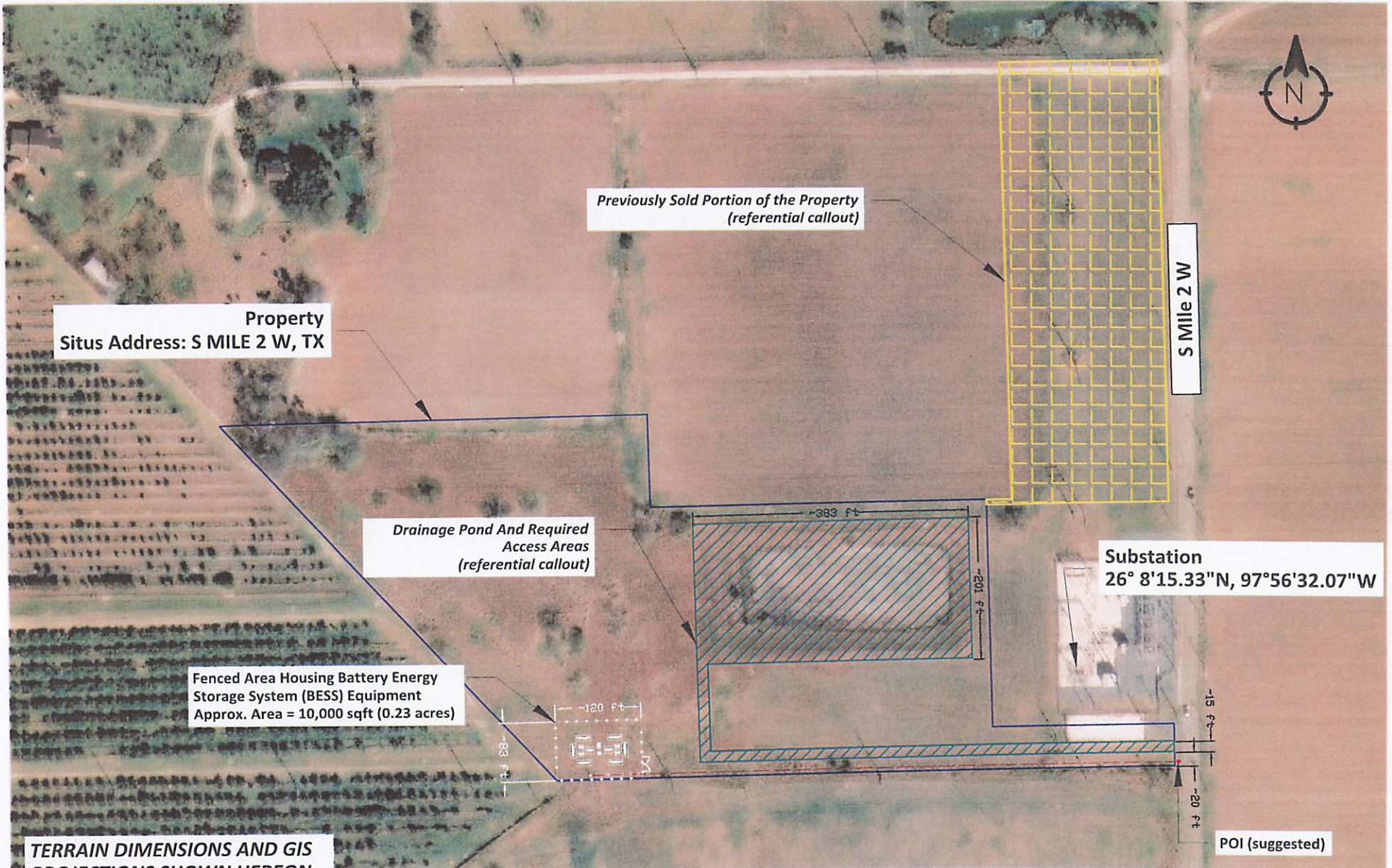
BACKGROUND INFORMATION:

- The applicant wants to change their zoning from Mobile Home to Light Industrial. Their goal is to build a 9.9 MW Battery Energy Storage System (BESS) that will connect to the nearby Wesmer Substation. As shown in the provided document, "WESM-001-01-A (1).pdf", the actual battery equipment will sit inside a small fenced area of about 10,000 square feet (or 0.23 acres).
- Even though this property is currently zoned for mobile homes, the surrounding area is already heavily institutional and industrial. More importantly, we set a precedent a few years ago when the City approved the exact same request for the property directly to the north (rezoning it to Light Industrial for a battery storage facility). Approving this request simply continues the existing trend for this street.
- Our Future Land Use Map (FLUM) officially lists this area as "Low Density Residential" (meaning single-family homes on 1/4 acre lots).
- However, zoning is allowed to differ from this map if the neighborhood has changed. Because the properties next door is already industrial and institutional, trying to force single-family homes in this specific spot no longer matches the reality of the neighborhood. Rezoning this to Light Industrial makes the most logical sense for how this area is actually developing.

ATTACHMENTS:

- Location Map
- 200ft Radius Map
- List of Residents Notified

Staff Recommendation: This item is being presented to the Planning and Zoning Board for review and determination. The Board is asked to evaluate the request based on the surrounding land uses, recent zoning precedents in the area, and the Future Land Use Map to determine the most appropriate zoning designation for the property.



TERRAIN DIMENSIONS AND GIS
PROJECTIONS SHOWN HEREON
ARE APPROXIMATE AND
PROVIDED FOR PLANNING
PURPOSES ONLY.

02 / 26 / 2026

1/16" = 1' - 0"

01

WESM-001

WESMER

Project Location

26° 8'13.40"N, 97°56'40.12"W

9.9 MW Project connecting to the Wesmer Substation

This document is prepared for the purpose of preliminary design and is not intended for construction purposes.

INITIAL DESIGN

FP 02 / 26 / 26

1487737 BC LTD

1055 DUNSMUIR ST STE 3000

VANCOUVER BC V7X 1K8

PALLADIUM ENERGY STORAGE LLC

1360 POST OAK BLVD STE 400

HOUSTON TX 77056

HARRISON JOHN MARC

1248 S MILE 2 W

MERCEDES TX 78570-7410

TEXAS A & I UNIVERSITY

PO BOX 1238

KINGSVILLE TX 78364-1238

TEJAS BUILDING & DEVELOPMENT CO INC

2401 E EXPRESSWAY 83

WESLACO TX 78599-5512

LLANO GRANDE MHRV LLC

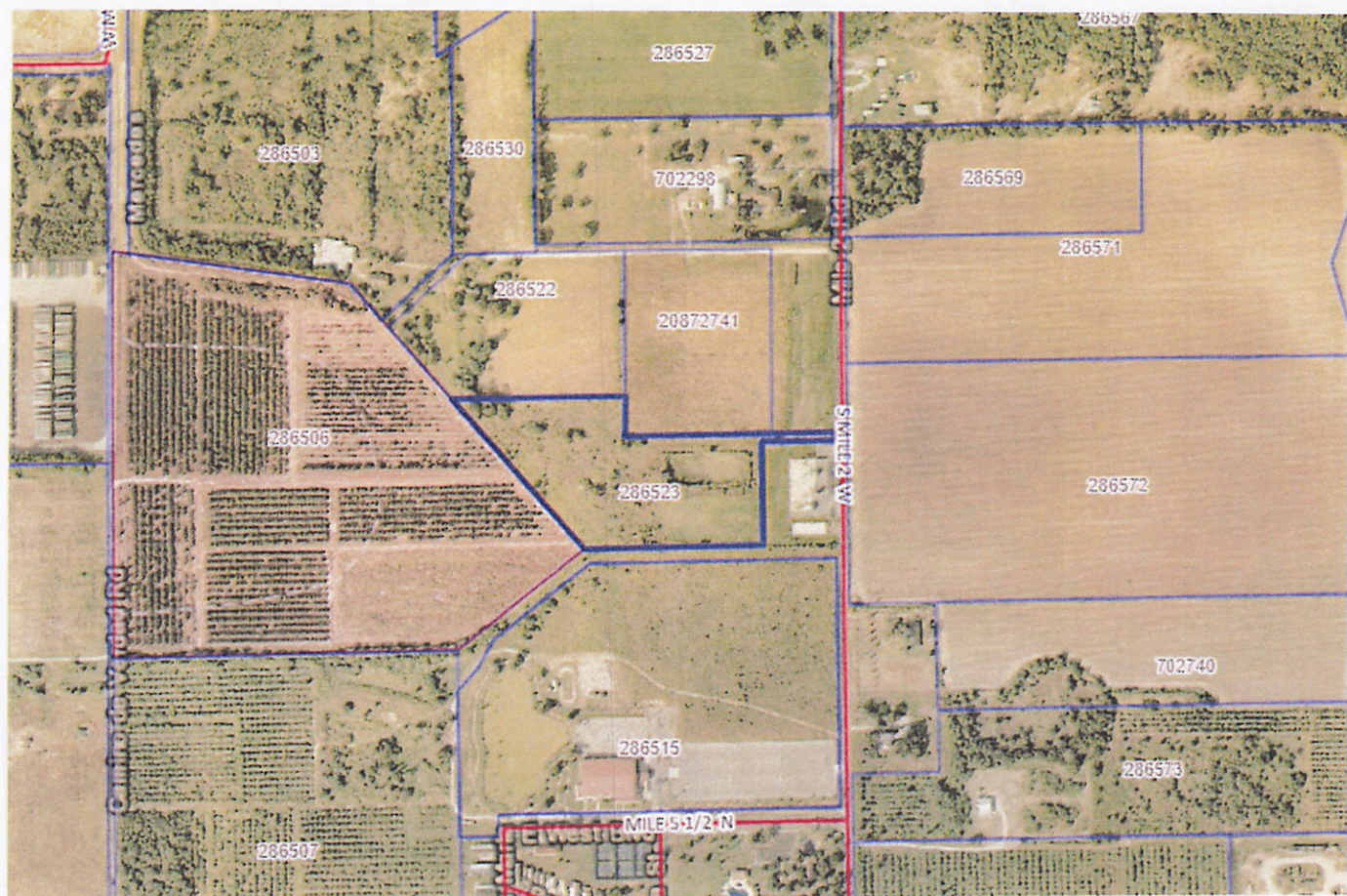
1910 TERRACINO DR

SACRAMENTO CA 95834-2454

AEP TEXAS CENTRAL COMPANY

PO BOX 16428

COLUMBUS OH 43216-6428



Ordinances/Resolution

DATE: September 9, 2026
FROM: Denisse Hernandez, Planning Director
ITEM: Subdivision: Final Approval for Redstone Heights

BACKGROUND INFORMATION:

- Redstone Heights is a 5.544-acre single-family residential subdivision containing 26 lots. The development is located off Mile 2 1/2, north of Expressway 83 in the City of Mercedes
- Preliminary plat and zoning reviews were conducted in late 2025. A variance request concerning the length of the dead-end street/cul-de-sac was approved by the Board of Adjustments on November 3, 2025.
- The City and the developer reached an agreement on a 37-foot back-to-back street width, as opposed to the developer's requested 32-foot width. Drainage plans were adjusted to shift detention ponds to the back of the property.
- A final site walkthrough was conducted on September 1, 2026, with the City Engineer and representatives from the Planning, Public Works, and Fire Departments. The project is substantially complete, with only a few minor punch-list items remaining:
 - Detention Fencing: The fence securing the detention area is still pending, but the developer is actively working on completing it.
 - Signage: Street signs have been ordered and are awaiting delivery/installation.
 - Streetlights: Light pole installations have been formally requested through AEP, and the developer is currently waiting on AEP's schedule to complete the installation.

ATTACHMENTS:

- Plat
- Drainage Report

Staff Recommendation: City Staff recommends approval subject to all city comments.

Hidalgo County Drainage District No.1
Drainage Statement

Redstone Heights Subdivision
A Proposed 28 Lot Single Family Residential Subdivision
Mercedes, Hidalgo County, Texas



REV06/01/2026

Gerardo Benavides
Gerardo Benavides, P.E., CFM

Benavides Engineering, LLC.
Texas Registered Firm F-22855

P.O. Box 832, Alamo TX 78516
jerry@benavideseng.com
956-310-8373

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**DRAINAGE STATEMENT
and
ENGINEERING CALCULATIONS**

Drainage Statement
Redstone Heights Subdivision
Mercedes, Hidalgo County, Texas

Project Description and Location

Redstone Heights Subdivision is a proposed 5.55-acre (Gross), 3.99-acre (Net) single family residential subdivision out of Lot 10, Block 114, Campacuas Subdivision, as per plat or map thereof recorded in Volume 1, Page 2, Map Records, Hidalgo County, Texas.

This proposed subdivision is located strictly within the City of Mercedes. It is located along the East Right-of-Way of West Mile 2 1/2 , approximately 1,000 feet North of US Expressway 83 intersection. The site currently vacant with agricultural rows and a small number of trees. The purpose of this subdivision is to keep the house within the proposed single lot and obtain adequate utility services.

Soil Description

The soils in this area are composed of 99.2% Mercedes Clay (**Soil 39**) with 0 to 1 percent slope, and Raymondville Clay Loam (**Soil 52**) with 0 to 1 percent slope. Mercedes Clay (**Soil 39**) belong to hydrologic **Group D** which have a very slow infiltration rate when thoroughly wet. Raymondville Clay Loam belongs to hydrologic **Group C** which has a slow infiltration rate when thoroughly wet. These soils have a very slow rate of water transmission. (See "USDA, NRCS Web Soil Survey Report" attached at the end of this report for other site-specific characteristics.)

Flood Zone

As per Federal Emergency Management Act (FEMA) Flood Insurance Rate Map (FIRM) Panel No. 480334 0450 C, map revised on June 6, 2000, this property is within Flood Zone "X". Areas on Flood Zone "X" are defined as areas to be outside the 100-year flood plain.

Existing Conditions (Pre-Development)

Existing surface stormwater runoff on this tract flows from the Western property to the Eastern property line along the East Right-of-Way of W Mile 2 1/2 , with an approximate slope of **0.15%**. The pre-development storm runoff is approximated to be **4.22** cubic feet per second based on the 10-year storm frequency, as per attached calculations.

Post-Development Conditions

The post-development surface storm runoff is approximated to be **18.23** cubic feet per second, based on the 50-year storm frequency, as per attached calculations, which is an increase of **14.01** cubic feet per second.

BENAVIDES

ENGINEERING

Proposed Drainage Plan

The proposed storm drainage system this subdivision will consist of the surface stormwater runoff generated by each lot towards the proposed curb and gutter conveying the runoff to curb catch basins that will ultimately discharge into proposed detention areas further identified as Lot D on this subdivision plat. Stormwater will then convey via underground structures and outfall via 24" RCP to existing Hidalgo and Cameron County Irrigation District No.9 drain ditch which falls under an area donated to the Hidalgo County Drainage District No.1 as per document 3744322, Official Records, Hidalgo County, Texas.

Engineering Calculations

In accordance with the **City of Mercedes** and **Hidalgo County Drainage District No.1** policies, the site will retain the difference in volume between pre-development and post-development conditions based on a 10-year pre-development and a 50-year post development. Therefore, as per the attached calculations, the required detention of **20,821 cubic feet (0.48 acre-feet)** of storm runoff shall be stored with a proposed onsite drainage ponds that should have enough volume capacity for the difference between a 10-year pre and 50-year post development prior outfalling into said existing Hidalgo and Cameron County Irrigation District No.9 drain ditch.

Pre-Development Calculations (10-year)

Q= 4.22 cfs
I= 4.23 in/hour
Tc= 39.50 minutes

Post-Development Calculations (50-year)

Q= 18.23 cfs
I= 9.14 in/hour
Tc= 14.87 minutes

☐ REJECTED	
☒ APPROVED FOR SUBMITTAL	
☐ TO H.C. PLANNING DEPT.	
☒ TO CITY	
☒ DISCHARGE PERMIT REQUIRED	
☒ DISTRICT FACILITY	
☐ CITY FACILITY	
☒ OTHER <u>HCCID#9</u>	
<u>Gerardo Benavides</u>	<u>06/02/26</u>
H.C.D.D. NO. 1	DATE



Redstone Heights Subdivision								
County:		Hidalgo				City Limits: Mercedes, Hidalgo TX		
Project No:		2023.035				No. of lots: 24		
Date:		9/17/2025						
Prepared/Submitted by:		Benavides Engineering, LLC P.O. Box 832 Alamo, Texas 78516				Phone: 956-310-8373 Email: jerry@benavideseng.com		
A Texas Registered Engineering Firm F-22855								
PRE DEVELOPMENT						ENGINEERS SEAL & SIGNATURE		
Total Area		3.990 ac (NET)						
Intercept Coefficient - "k"		0.274						
"K _u "		3.28						
Overland Flow Length - "L"		825.00 ft						
Overland Slope - "S _p "		0.15 %						
Velocity - "V"		0.35 ft/s						
Existing Time of Concentration - "T"		39.50 min.						
Existing Runoff Coefficient - "C"		0.25 (Existing - Unimproved Areas)						
Intensity of Rainfall - "I"		4.23 in/hr (10 year event)				REV06/01/26		
Existing - "Q _{10yr} "		4.22 ft ³ /s						
POST DEVELOPMENT						VOLUME INFORMATION		
Proposed Runoff Coefficient - "C"		0.50 (Proposed - Single Family Residential)				STORAGE REQUIRED 20,821 cu.ft.		
Proposed Time of Concentration - "T"		14.87 min.				STORAGE REQUIRED 0.48 ac-ft		
Proposed Intensity - "I"		9.14 in/hr (50 year event)				w / RELEASE RATE OF 4.22 cu.ft / sec		
Proposed - "Q50 _{yr} "		18.23 ft ³ /s						
Time		I _{50yr}	Q50 _{yr} in	V in	Q _{10yr} out	V out	Req'd V	Req'd V
min	hr	in/hr	ft ³ /s	ft ³	ft ³ /s	ft ³	ft ³	ac-ft
4.24	0.07	14.14	28.21	7177	4.22	2419	4758	0.11
14.24	0.24	9.32	18.60	15891	4.22	3685	12206	0.28
24.24	0.40	7.14	14.25	20729	4.22	4951	15779	0.36
34.24	0.57	5.87	11.72	24070	4.22	6217	17854	0.41
44.24	0.74	5.03	10.03	26630	4.22	7482	19148	0.44
54.24	0.90	4.42	8.82	28713	4.22	8748	19965	0.46
64.24	1.07	3.96	7.91	30476	4.22	10014	20461	0.47
74.24	1.24	3.60	7.19	32008	4.22	11280	20728	0.48
84.24	1.40	3.31	6.60	33367	4.22	12546	20821	0.48
94.24	1.57	3.07	6.12	34591	4.22	13812	20779	0.48
104.24	1.74	2.86	5.71	35706	4.22	15077	20629	0.47
114.24	1.90	2.69	5.36	36732	4.22	16343	20389	0.47
124.24	2.07	2.53	5.06	37684	4.22	17609	20074	0.46

High Point

PRE DEVELOPMENT - TIME OF CONCENTRATION						
Segment #	Ku (Constant)	Intercept Coefficient (k)	Average Slope	Velocity (ft/s)	Segment Length (ft)	Time of Concentration (min)
1 - Grass	3.28	0.274	0.15	0.348	825	39.50
Total (ft)					825	39.50

POST DEVELOPMENT - TIME OF CONCENTRATION						
Segment #	Ku (Constant)	Intercept Coefficient (k)	Average Slope	Velocity (ft/s)	Segment Length (ft)	Time of Concentration (min)
1 - Conc Gutt	3.28	0.691	0.50	1.603	230	2.39
2- RCP 24"	3.28	0.691	0.18	0.962	720	12.48
Total (ft)					950	14.87

Land Cover / Flow Regime	k
Forrest w/ heavy ground litter; hay meadow (overland flow)	0.076
Trash fallow or minimum tillage cultivation; contour or strip cropped; woodland (overland flow)	0.152
Short grass pasture (overland flow)	0.213
Cultivated straight row (overland flow)	0.274
Nearly bare and untilled (overland flow); alluvial fans in western mountain regions	0.305
Grassed waterway (shallow concentrated flow)	0.457
Unpaved (shallow concentrated flow)	0.491
Paved Area (shallow concentrated flow); small upland gullies	0.619

Land Use	C	Land Use	C
Business: Downtown areas Neighborhood areas	0.70 - 0.95 0.50 - 0.70	Lawns:	
		Sandy soil, flat, 2%	0.05 - 0.10
		Sandy soil, avg., 2-7%	0.10 - 0.15
		Sandy soil, steep, 7%	0.15 - 0.20
		Heavy soil, flat, 2%	0.13 - 0.17
		Heavy soil, avg., 2-7%	0.18 - 0.22
Residential: Single-family areas Multi units, detached Munti units, attached Suburban	0.30 - 0.50 0.40 - 0.60 0.60 - 0.75 0.25 - 0.40	Heavy soil, steep, 7%	0.25 - 0.35
		Agricultural land:	
		Bare packed soil	
		*Smooth	0.30 - 0.60
		*Rough	0.20 - 0.50
		Cultivated rows	
		*Heavy soil, no crop	0.30 - 0.60
		*Heavy soil, with crop	0.20 - 0.50
		*Sandy soil, no crop	0.20 - 0.40
		*Sandy soil, with crop	0.10 - 0.25
Industrial: Light areas Heavy areas	0.50 - 0.80 0.60 - 0.90	Pasture	
		*Heavy soil	0.15 - 0.45
		*Sandy soil	0.05 - 0.25
		Woodlands	0.05 - 0.25
Parks, cemeteries	0.10 - 0.25	Streets:	
		Asphaltic	0.70 - 0.95
		Concrete	0.80 - 0.95
Playgrounds	0.20 - 0.35	Brick	0.70 - 0.85
		Unimproved areas	0.10 - 0.30
Railroad yard areas	0.20 - 0.40	Drives and walks	0.75 - 0.85
		Roofs	0.75 - 0.95

Rainfall Intensity-Duration-Frequency Coefficients for Texas Counties

1. Select your county. 2. Enter the time of concentration

County	Coefficient	2-year	5-year	10-year	25-year	50-year	100-year
Hidalgo	e (in)	0.831	0.795	0.778	0.771	0.749	0.740
Henderson	b	74	80	87	98	99	103
Hidalgo	d (mins)	9.6	9.2	9.2	9.2	9.2	9.6
Hill	Intensity (in/hr)*	2.91	3.64	4.23	4.90	5.39	5.77
Hockley							
Hood							
Hopkins							
Houston							
Howard							
Hudspeth							

Coefficient	2-year	5-year	10-year	25-year	50-year	100-year
e (mm)	0.831	0.795	0.778	0.771	0.749	0.740
b	1880	2032	2210	2489	2515	2616
d (mins)	9.6	9.2	9.2	9.2	9.2	9.6
Intensity (mm/hr)*	73.9	92.5	107.51	124.4	136.9	146.6

* for time of Concentration = 39.5 mins

Rainfall Intensity-Duration-Frequency Coefficients for Texas Counties

1. Select your county. 2. Enter the time of concentration

County	Coefficient	2-year	5-year	10-year	25-year	50-year	100-year
Hidalgo	e (in)	0.831	0.795	0.778	0.771	0.749	0.740
Henderson	b	74	80	87	98	99	103
Hidalgo	d (mins)	9.6	9.2	9.2	9.2	9.2	9.6
Hill	Intensity (in/hr)*	5.19	6.38	7.32	8.44	9.14	9.67
Hockley							
Hood							
Hopkins							
Houston							
Howard							
Hudspeth							

Coefficient	2-year	5-year	10-year	25-year	50-year	100-year
e (mm)	0.831	0.795	0.778	0.771	0.749	0.740
b	1880	2032	2210	2489	2515	2616
d (mins)	9.6	9.2	9.2	9.2	9.2	9.6
Intensity (mm/hr)*	131.9	162.1	186.02	214.3	232.1	245.5

* for time of Concentration = **14.87** mins

PROJECT LOCATION MAP



U.S. EXPRESSWAY 83

BUS. EXPRESSWAY 83

MORELAND DR.

W MILE 2 1/2

MEDRANO SERVICE DR



FEMA FLOOD INSURANCE RATE MAP

LEGEND



SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

ZONE A No base flood elevations determined.

ZONE AE Base flood elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding; velocities also determined.

ZONE A99 To be protected from 100-year flood by federal flood protection system under construction; no base flood elevations determined.

ZONE V Coastal flood with velocity hazard (wave action); no base flood elevations determined.

ZONE VE Coastal flood with velocity hazard (wave action); base flood elevations determined.



FLOODWAY AREAS IN ZONE AE



OTHER FLOOD AREAS

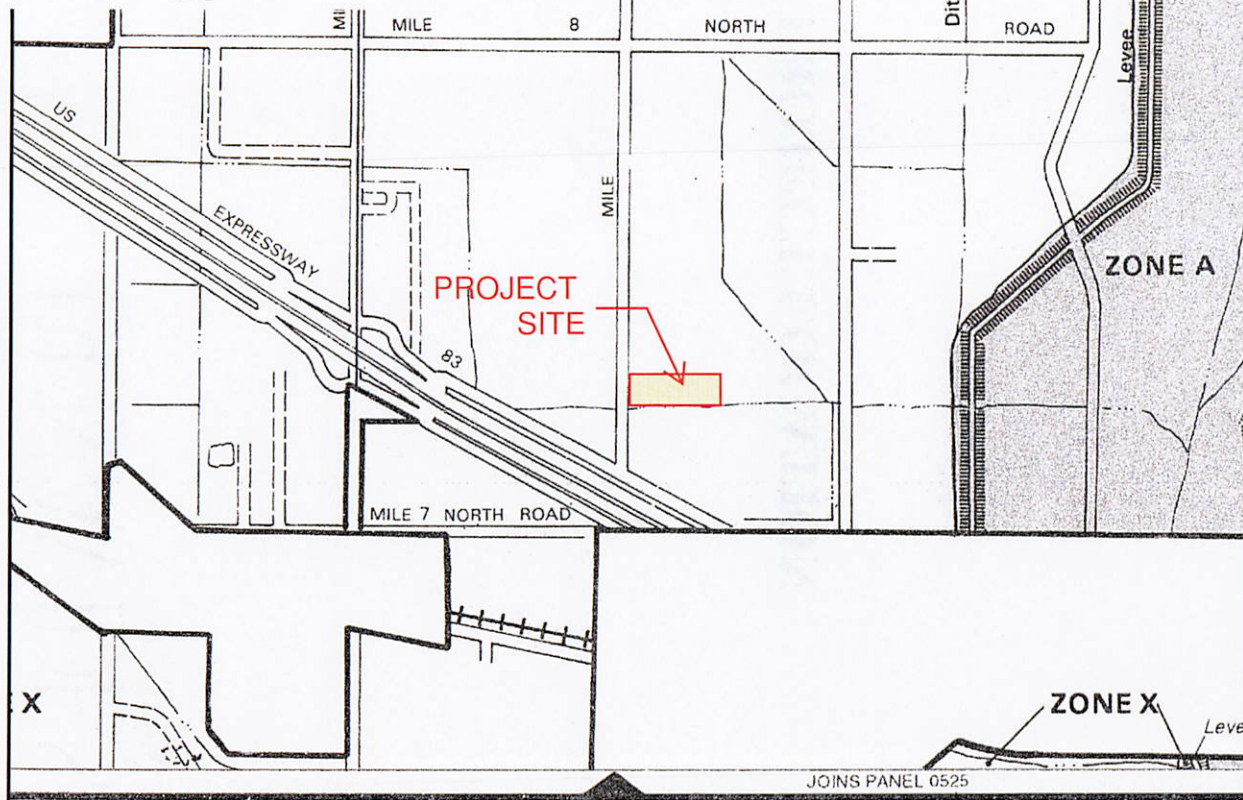
ZONE X Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.



OTHER AREAS

ZONE X Areas determined to be outside 500-year floodplain.

ZONE D Areas in which flood hazards are undetermined.



APPROXIMATE SCALE

2000 0 2000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

HIDALGO COUNTY,
TEXAS
(UNINCORPORATED AREAS)

(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER

480334 0450 C

MAP REVISED:

JUNE 6, 2000

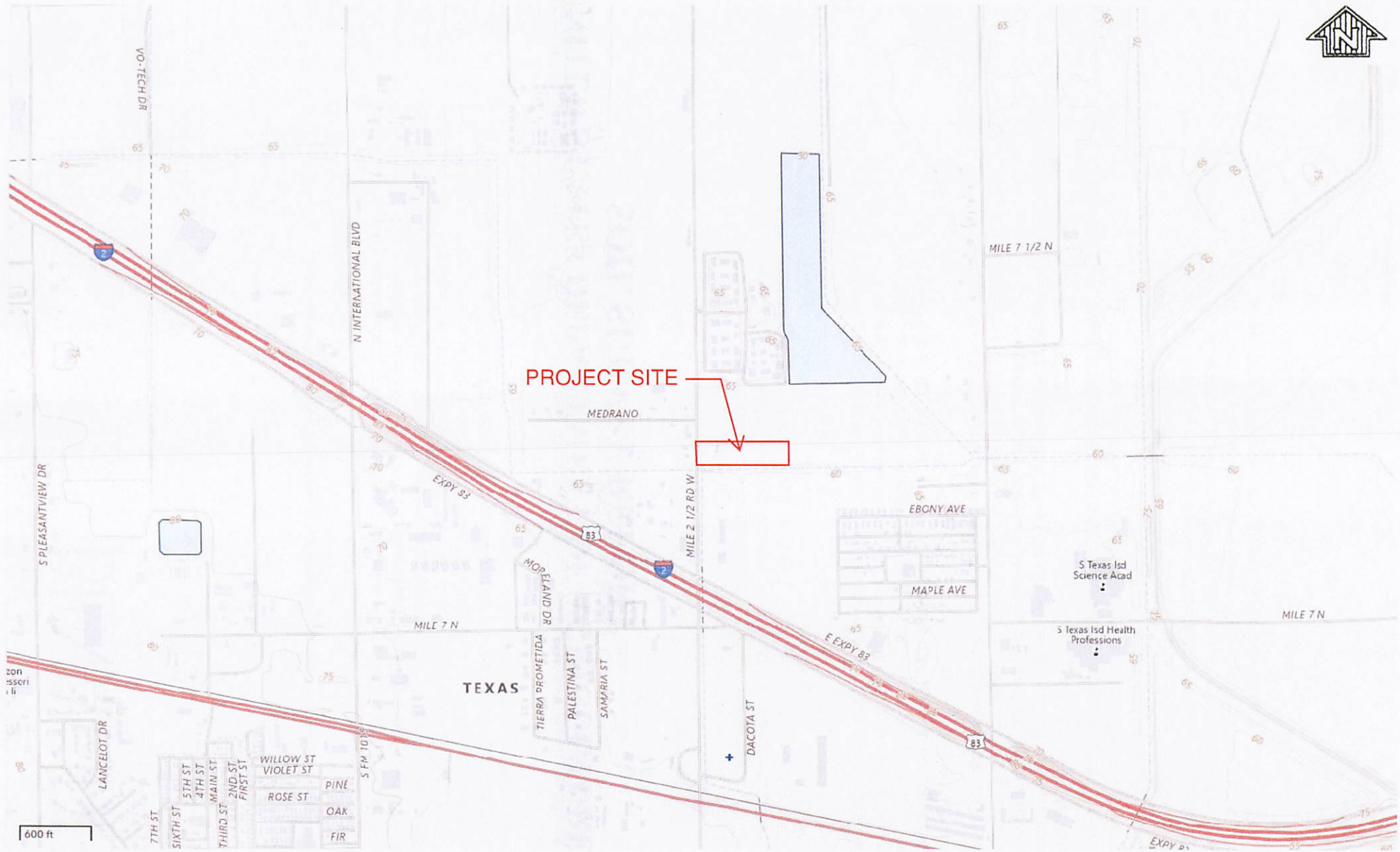


Federal Emergency Management Agency

This is an official FIRMette showing a portion of the above-referenced flood map created from the MSC FIRMette Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at <https://msc.fema.gov>.

JOINS PANEL 0525

USGS MAP and PROJECT LOCATION



**UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL SURVEY REPORT**



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Hidalgo County, Texas**

Redstone Heights Subdivision



September 15, 2025

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.

Map Scale: 1:1,280 if printed on A landscape (11" x 8.5") sheet.

0 15 30 60 90 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hidalgo County, Texas

Survey Area Data: Version 23, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 21, 2021—Mar 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
39	Mercedes clay, 0 to 1 percent slopes	5.8	99.2%
52	Raymondville clay loam, 0 to 1 percent slopes	0.0	0.8%
Totals for Area of Interest		5.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hidalgo County, Texas

39—Mercedes clay, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: dbk
Elevation: 10 to 150 feet
Mean annual precipitation: 24 to 34 inches
Mean annual air temperature: 73 to 75 degrees F
Frost-free period: 300 to 365 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Mercedes and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mercedes

Setting

Landform: Delta plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous clayey alluvium

Typical profile

H1 - 0 to 19 inches: clay
H2 - 19 to 57 inches: clay
H3 - 57 to 65 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 10 percent
Maximum salinity: Slightly saline to strongly saline (4.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 12.0
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: D
Ecological site: R083DY015TX - Saline Clay
Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 15 percent

Hydric soil rating: No

52—Raymondville clay loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: dbm1

Elevation: 20 to 200 feet

Mean annual precipitation: 23 to 33 inches

Mean annual air temperature: 72 to 73 degrees F

Frost-free period: 300 to 340 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Raymondville and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Raymondville

Setting

Landform: Delta plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous clayey alluvium

Typical profile

H1 - 0 to 15 inches: clay loam

H2 - 15 to 43 inches: clay loam

H3 - 43 to 65 inches: clay

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 8.0

Available water supply, 0 to 60 inches: Moderate (about 9.0 inches)

Custom Soil Resource Report

Interpretive groups

Land capability classification (irrigated): 2s

Land capability classification (nonirrigated): 2s

Hydrologic Soil Group: C

Ecological site: R083DY025TX - Clay Loam

Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 15 percent

Hydric soil rating: No

Soil Information for All Uses

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Hydrologic Soil Group

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

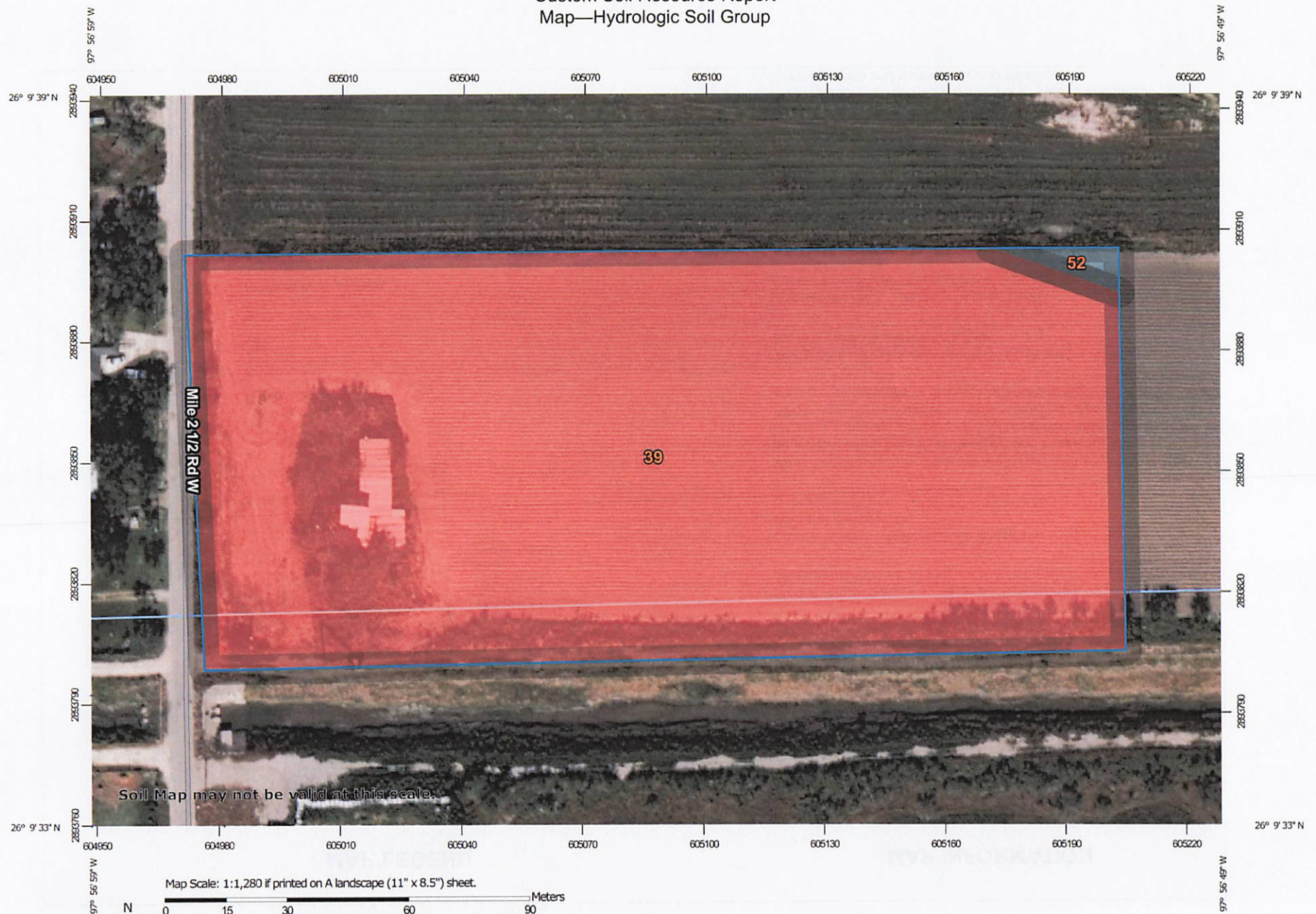
Custom Soil Resource Report

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Custom Soil Resource Report Map—Hydrologic Soil Group



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

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This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hidalgo County, Texas
 Survey Area Data: Version 23, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 21, 2021—Mar 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
39	Mercedes clay, 0 to 1 percent slopes	D	5.8	99.2%
52	Raymondville clay loam, 0 to 1 percent slopes	C	0.0	0.8%
Totals for Area of Interest			5.8	100.0%

Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

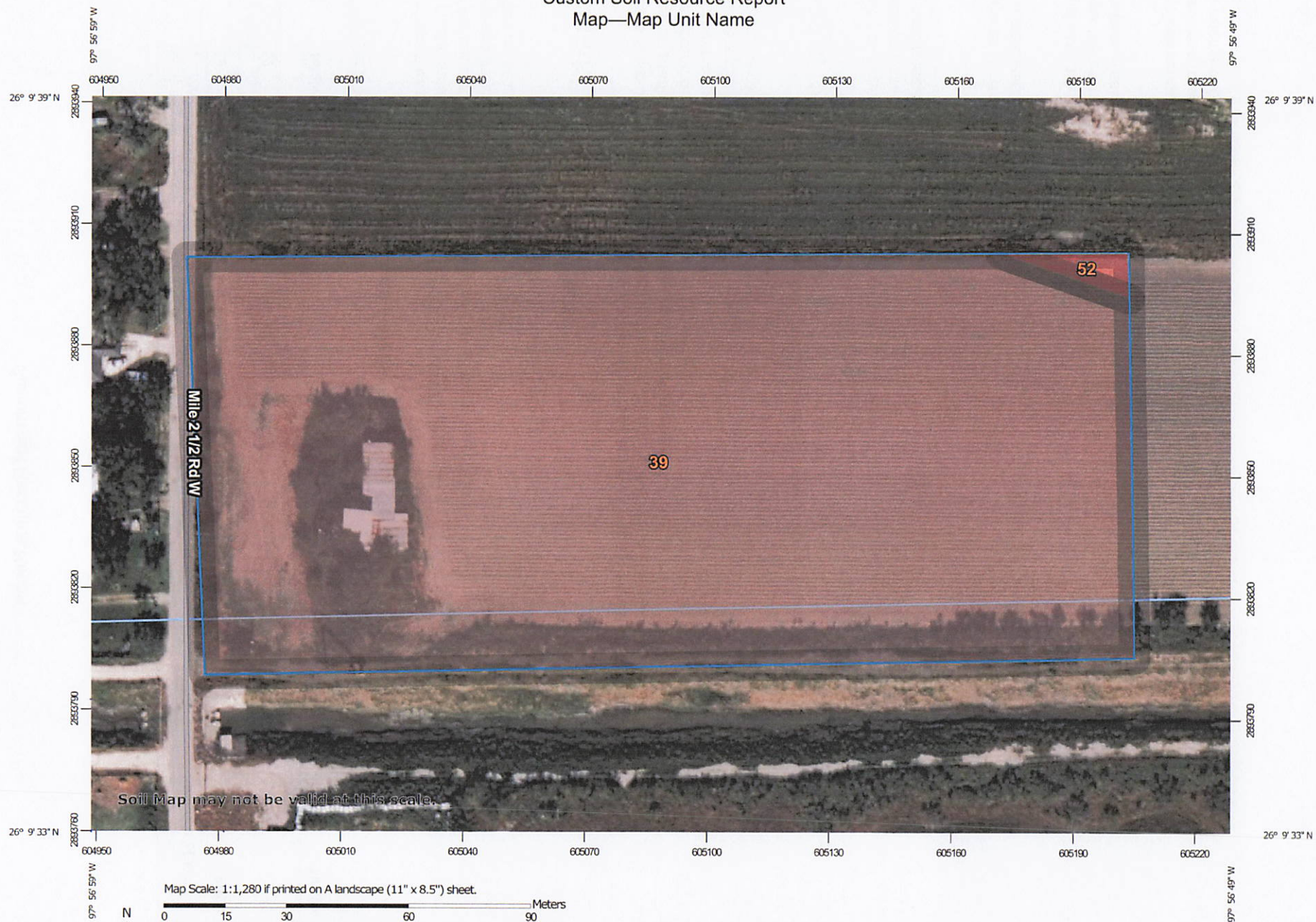
Tie-break Rule: Higher

Map Unit Name

A soil map unit is a collection of soil areas or nonsoil areas (miscellaneous areas) delineated in a soil survey. Each map unit is given a name that uniquely identifies the unit in a particular soil survey area.

Custom Soil Resource Report

Map—Map Unit Name



Map Scale: 1:1,280 if printed on A landscape (11" x 8.5") sheet.

0 15 30 60 90 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

-  Mercedes clay, 0 to 1 percent slopes
-  Raymondville clay loam, 0 to 1 percent slopes
-  Not rated or not available

Soil Rating Lines

-  Mercedes clay, 0 to 1 percent slopes
-  Raymondville clay loam, 0 to 1 percent slopes
-  Not rated or not available

Soil Rating Points

-  Mercedes clay, 0 to 1 percent slopes
-  Raymondville clay loam, 0 to 1 percent slopes
-  Not rated or not available

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways

-  US Routes
-  Major Roads
-  Local Roads
-  Background
-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hidalgo County, Texas
Survey Area Data: Version 23, Aug 30, 2024

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Date(s) aerial images were photographed: Dec 21, 2021—Mar 2, 2022

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Custom Soil Resource Report

Table—Map Unit Name

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
39	Mercedes clay, 0 to 1 percent slopes	Mercedes clay, 0 to 1 percent slopes	5.8	99.2%
52	Raymondville clay loam, 0 to 1 percent slopes	Raymondville clay loam, 0 to 1 percent slopes	0.0	0.8%
Totals for Area of Interest			5.8	100.0%

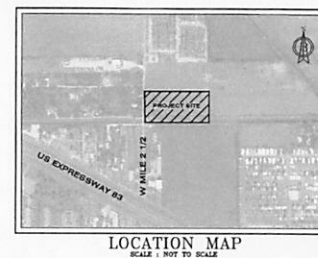
Rating Options—Map Unit Name

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

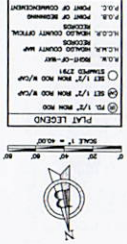
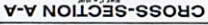
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SET of PLANS

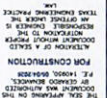


OWNER	BLENVISTA DEVELOPERS LLC	RICARDO ARIZMENDI - RUBI GUJARDO	DATE PREPARED 09/01/2025	DATE REvised 05/05/2026
ENGINEER	BENAVIDES ENGINEERING, LLC	GERARDO BENAVIDES, P.E., CFM	5901 N. DOUGER ST, PHARR TX 78577	
SUBMITTER	HOMBRO L. GUTIERREZ	HOMBRO L. GUTIERREZ, P.E., RPS	P.O. BOX 832, ALAMO TX 78516	956-316-8373
			P.O. BOX 548, McAllen TX 78505	956-316-0000

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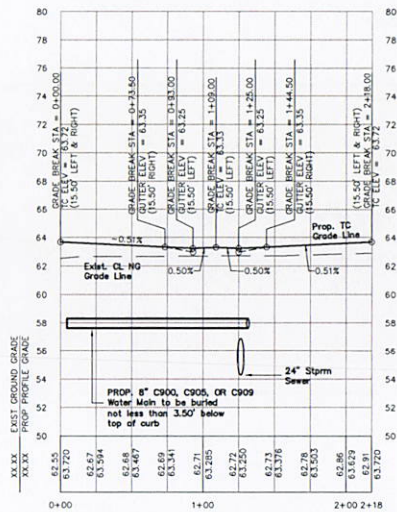
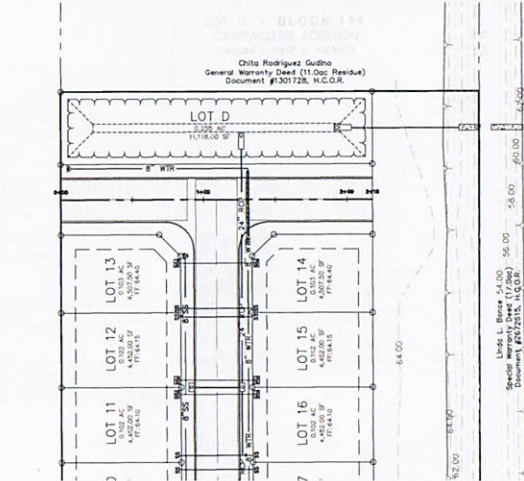
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THE LONE STAR NOTIFICATION COMPANY
AT 1-800-669-8344



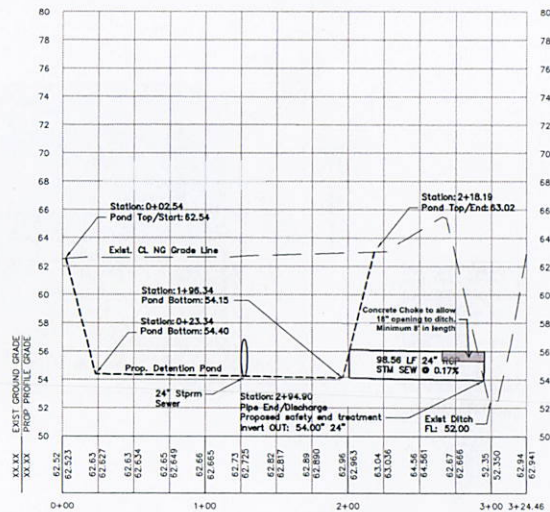
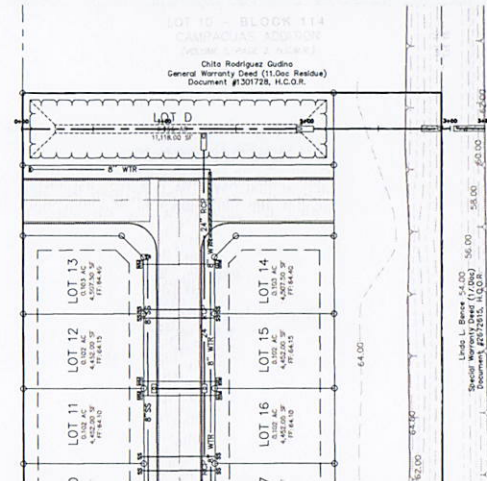
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PROJECT ADDRESS:	FIRST FLOOR OF NORTH OF I-2 LUBBOCK, TEXAS
PREPARED DATE:	08/26/2003
DRAWN BY:	ENR
CHECKED BY:	SEBASTIAN, P.
PROJECT NO.	2003.00
PAGE TITLE:	PAYING CHASING AND DEVELOPER PLAN
SHEET NUMBER:	C-5

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DETENTION POND TO PUBLIC DITCH

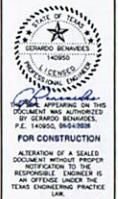


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1-800-869-8344

Know what's below. Call before you dig. **811**

THE LONE STAR NOTIFICATION COMPANY



BENAVIDES ENGINEERING

140955
12/31/2025

CLIENT: BENAVIDES DEVELOPERS LLC
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