

# **City of Laredo**

## **REGULAR MEETING AGENDA**

**Thursday, March 12, 2026**

**12:00 PM**

**City of Laredo City Hall  
City Council Chambers  
1110 Houston Street  
Laredo, Texas 78040**

**Historic District / Landmark Board**

City of Laredo  
Historic District / Landmark Board  
1110 Houston Street  
Laredo, Texas, 78040  
March 12, 2026  
12:00 p.m. (Noon)

- 1. Call to Order
- 2. Roll Call
- 3. Pledge of Allegiance
- 4. Approval of Minutes

4A. Regular Meeting of November 13, 2025

[26-529](#)

5. Citizen Comments

Citizens are required to fill out a witness card and submit it to a City Planner, or designee, no later than 11:45 p.m. and identify themselves at the microphone. Comments are limited to three (3) minutes per speaker. No more than three (3) persons will be allowed to speak on any side of an issue. Should there be more than three (3) people who wish to speak on a particular issue, they need to select not more than three (3) representatives to speak for them and the presiding officer may limit the public comments further in the interest of an orderly meeting. Speakers may not pass their minutes to any other speaker. Comments should be relevant to City business and delivered in a professional manner. No derogatory remarks will be permitted.

6. Public Hearing and Consideration of the Following:

6A. Public hearing and consideration of a motion to consider the new construction of a solar panel pergola and the addition of solar panels on the existing residential structure on Lot 1, Block 201, Western Division, located at 1602 Washington Street. This property is within Saint Peter’s Historic District.

[26-526](#)

HD-004-2026  
District VIII

6B. Public hearing and consideration of a motion to consider the exterior alteration of the side façade along Lincoln Street by adding a terracotta clay mural on part of Lot 4 and all of Lot 5, Block 40, Western Division, located at 502 Convent Avenue. This property is within Old Mercado Historic District.

[26-527](#)

HD-005-2026  
District VIII

**7. Adjournment**

This notice was posted at the Municipal Government Office, 1110 Houston Street, Laredo, Texas 78040, at a place of convenient and readily accessible to the public at all time. Said notice was posted on Thursday, March 5, 2026 by 6:00 P.M.

# City of Laredo

## Historic District / Landmark Board

---

**Meeting Date:** 3/12/2026

**Action Item 4A.**

---

**CITY OF LAREDO**

**HISTORIC DISTRICT/LANDMARK BOARD**

**MINUTES OF REGULAR MEETING OF NOVEMBER 13, 2025**

The Historic District/Landmark Board of the City of Laredo convened in a regular meeting on Thursday, November 13, 2025 at 12:00 noon, at the City Council Chambers at City Hall at 1110 Houston St., in Laredo, Texas 78040, to consider the following:

**1. CALL TO ORDER**

Chair Narvaez called the meeting to order at 12:02 p.m.

**2. ROLL CALL**

Vanessa Guerra, Planning Director, called roll and verified **quorum** existed.

**Members present:** Chair Johnny Narvaez  
Vice Chair Francisco Barrientos  
Jorge Santana  
Ana Villarreal (1<sup>st</sup> Meeting)  
Wayne Nance  
Priscilla Iglesias

**Members absent:** Sara V. Garza (Excused)  
Teresa Barker (Excused)  
Marc Gonzalez (Excused)

**Staff present:** Vanessa Guerra  
Deidre Garcia  
Vanessa Fresnillo

**Others present:** Rick Solis  
Victor Montes  
Teresa Fonseca  
Joshua Black  
Leonel Garza  
Carmen P. de la Rosa  
Sofia Santos

Chair Narvaez requested a motion to excuse Members not present.

Board Member (Bm.) Barrientos made a motion to **excuse** Members not present.

Second: Bm. Nance

Minutes of the HDLB meeting of November 13, 2025

For: 6  
Against: 0  
Abstain: 0

Motion carried unanimously

**3. PLEDGE OF ALLEGIANCE**

**4. CONSIDER APPROVAL OF MINUTES OF:**

**A. Regular Meeting of August 14, 2025.**

Board Member (Bm.) Iglesias made a motion to **approve** the minutes of August 14, 2025.

Second: Bm. Barrientos  
For: 6  
Against: 0  
Abstain: 0

Motion carried unanimously

**5. CITIZEN COMMENTS**

None.

**6. PUBLIC HEARING AND CONSIERATION OF THE FOLLOWING:**

- A. Public hearing and consideration of a motion to consider façade improvements to the Plaza Theater, which includes exterior alterations, new construction, demolition, and restoration of Lots 2, 8, 9, and the west one third of Lot 3 (approximately 2,057.75 square feet), Block 46, Western Division, located at 1018 and 1012 ½ Hidalgo Street and 1013 and 1017 Farragut Street. This property is within the Old Mercado Historic District.**

**HD-001-2026**

**District VIII**

Deidre Garcia, Planning Staff, provided a brief overview on the item.

Vanessa Guerra, Planning Director, clarified that Building A, the demolition is for all of the building, except the façade.

**Staff Recommendation:** Staff **supports** the proposed scope of work for the following reasons:

- 1). Alterations, Renovations, and Repairs that will Alter the Existing Exterior Façade:
  - a. The replacement of skeletonized lighting, chrome hardware, canopy reconstruction, and lighting fixtures will reflect the Art Moderne architectural style. As per the Secretary of the Interior, the historic character of the Plaza Theater will be retained and preserved. (Standard 2: Historic Character)
  - b. The proposed scope of work appropriately restores the historic building while incorporating new materials such as stucco, a flat TPO roof, and metal that complement the existing character, materials, and spatial relationships of the property, as per the Secretary of the Interior. (Standard 9: New Additions)
- 2). Repairs and Renovations that will not Alter the Exterior Façade:
  - a. The proposed repairs, such as cleaning, replacement of grout, wood sanding/refinishing, repairing metal panels, are consistent with historic preservation standards and maintain the architectural integrity of the Plaza Theater. (Standard 2: Historic Character)
  - b. The proposed scope of work includes repair of teal tile, terrazzo flooring, and wood doors in a manner that maintains integrity and preserves all character-defining features, as per the Historic Urban Design Guidelines. (Chapter 3: Treatment of Character-Defining Features)
- 3). Partial Demolition of Building A (1012 ½ Hidalgo Street - building adjacent to the Plaza Theater)
  - a. The proposed partial demolition of Building A does not destroy historic materials, as the Plaza Theater will remain intact, as per the Secretary of the Interior. (Standard 9: New Additions)
  - b. The proposed partial demolition of Building A will maintain the streetscape and will preserve the façade materials of Building A, as per the Historic Urban Design Guidelines. (Chapter 3: Preserve Façade Materials)
- 4). New Construction to the Rear of Building A (1012 ½ Hidalgo Street - building adjacent to the Plaza Theater):
  - a. The new construction is compatible in scale, materials, and massing without creating a false historical appearance, as similar materials such as stucco, metal, and a flat TPO roof are being used, as per the Secretary of Interior. (Standard 9: New Additions)
  - b. The addition for the Plaza Theater expansion recedes approximately 15 feet from the street, is distinguishable from the existing historical environment, and remains visually compatible to the Plaza Theater as per the Historic Urban Design Guidelines. (Chapter 3: Additions to Historic Buildings)

Staff General Comments:

1. Any improvements which are approved by the Historic District Landmark Board shall also comply with all Building Code requirements and other regulations as provided in the Laredo Land Development Code.
2. Approval by the Historic District Landmark Board does not guarantee approval of a building permit or any other permit which may be required.
3. It is recommended that all existed improvements utilize the following resources as a guide:

Minutes of the HDLB meeting of November 13, 2025

- The Secretary of the Interiors' Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings
  - City of Laredo Historic Urban Design Guidelines
  - City of Laredo Historic Preservation Plan
4. No other improvements, changes to the building, site or new construction on the property shall be permitted without prior review and approval by staff and/or Historic District Landmark Board, to meet compliance.
  5. As per the Secretary of the Interior's Standards for Rehabilitation and Illustrated Guidelines for Rehabilitating Historic Buildings, all proposed scope of work should be physically and visually compatible to the original materials and features of the historical structure.

Chairman Narvaez opened the public hearing.

Rick Solis, Partner with Able City, and Victor Montes, Project Manager, addressed the Board and expressed their support for the proposed project. Mr. Solis stated that the goal is to modernize the building while preserving its historic integrity and respecting its original character. He explained that the proposed demolition work would allow for the installation of ADA-compliant restrooms, an elevator, and exit stairs, all without affecting the Plaza Theater itself.

Mr. Montes presented images of the proposed neon lighting to provide the Board with an example of the color and design, demonstrating that it would match the proposed aesthetic for the building.

Board Member Santana expressed his enthusiasm for the project and stated that he was pleased to see the work moving forward, noting that the building represents an important part of the community's history.

Mr. Montes explained that the proposed sign would utilize a skeletonized lighting system. Mr. Solis added that the design would transition from traditional neon to an LED skeletonized system due to the high cost and maintenance associated with neon lighting. He noted that the proposed system would use the same anchor points as the existing sign, making the differences between the two systems difficult to detect.

Board Member Santana commented that the systems appear nearly identical while also consuming less energy.

Mr. Montes further explained that the contractor would utilize the existing connection points where current neon lighting is damaged or disconnected in order to minimize the need to create additional holes in the structure. He also noted that other neon lights throughout the building are frequently vandalized and that neon tubing is costly to replace. For this reason, the proposal includes the use of Incision Prime Green skeletonized LED lighting, and he presented several examples for the Board's consideration.

Board Member Villarreal asked staff whether the proposed ordinance under Item 6C, which addresses the prohibition of illuminated signage within the Historic District, would affect the proposed project.

Vanessa Guerra, Planning Director, informed the Board that the applicants should already have obtained the necessary permits; therefore, the project would be considered vested under the previous ordinance.

Board Member Santana asked whether another building with similar signage installed approximately eighty (80) years ago would be considered grandfathered.

Vanessa Guerra, Planning Director, explained that if documentation exists demonstrating that the signage was installed prior to the adoption of the ordinance, it would be considered grandfathered.

Chairman Narvaez, requested a motion to close the public hearing and action for HD-001-2026.

Bm. Iglesias made a motion to close the public hearing and **approve** HD-001-2026. The motion includes to consider façade improvements to the Plaza Theater, which includes exterior alterations, new construction, demolition, and restoration.

Second:	Bm. Barrientos
For:	6
Against:	0
Abstain:	0

Motion carried unanimously

**B. Public hearing and consideration of a motion to consider façade repair and restoration on Block 10, Western Division, located at 217 San Agustin Avenue. This property is within the San Agustin de Laredo Historic District.**

**HD-002-2026**

**District VIII**

Vanessa Fresnillo, Planning Staff, provided a brief overview on the item.

**Staff Recommendation:** Staff **supports** the proposed scope of work, for the following reasons:

1. Sixty (60) windows are to be replaced with insulated windows.
  - a. The proposed installation of insulated windows will maintain the original window design and proportions, ensuring no visual change to the façade or historic character of the Santa Monica Parish Hall. Any window replacement shall not

- alter the exterior appearance or compromise the historic character of the building. (Historic Urban Design Guidelines)
- b. The replacement with insulated windows in the Santa Monica Parish Hall will help with the long-term sustainability of the building while retaining its character. Work undertaken to meet energy efficiency and sustainability goals should be compatible with the historic character of the building, replacing windows may be appropriate when thermal performance is necessary for long-term building function. (Secretary of Interior Standards)
2. Repair and restoration of fourteen (14) window frames using reclaimed Longleaf Pine or species to match existing per material testing.
    - a. Repairing the wood windows using reclaimed Longleaf Pine or a similar fine-grained species maintains this intent by retaining or reusing authentic materials. (Chapter 3: Design Guidelines for Historic Properties)
    - b. The proposed use of reclaimed Longleaf Pine aligns with this philosophy-it repairs the feature using materials that are either identical or as close as possible in species and grain to the original. (Standard 6)
  3. Salvage and replacement of forty-six (46) window frames using Clear Ponderosa Pine or suitable fine-grained lumber.
    - a. Clear Ponderosa Pine or a suitable-grained lumber is an appropriate replacement that will ensure visual continuity. Similar wood species-those with comparable grain, color, and finish-are appropriate substitutes when exact matching materials are unavailable.
    - b. Using a compatible fine-grained lumber such as Clear Ponderosa Pine fits this provision, provided that the finish, detailing, and joinery replicate the original appearance. When original materials are not available, the Standards allow “matching the old in design, color, texture, and, where possible, materials.” (Standard 6)

**Staff Recommendation:** Staff **does not support** the proposed scope of work for the following reasons:

4. Aluminum cladding of forty-six (46) window frames that will be painted to match historic color(s) of existing windows as per material testing
  - a. The Historic Urban Design Guidelines identifies aluminum-clad windows as inappropriate for historic buildings, therefore the proposed usage of aluminum-cladding on the windows introduces a non-historic material inconsistent with the original character and intent of the Historic Urban Design Guidelines.
  - b. Aluminum, being non-porous, reflective, and machine-finished, fails to replicate the tactile texture, warmth, and matte quality of wood, resulting in an incompatible appearance. (Secretary of Interior Standards)
  - c. The cladding is a permanent alteration that prevents inspection and maintenance of the underlying wood-contrary to preservation practice favoring reversible interventions. (Secretary of Interior Standards)

Staff General Comments:

1. Any improvements which are approved by the Historic District Landmark Board shall also comply with all Building Code requirements and other regulations as provided in the Laredo Land Development Code.
2. Approval by the Historic District Landmark Board does not guarantee approval of a building permit or any other permit which may be required.
3. It is recommended that all existed improvements utilize the following resources as a guide:
  - The Secretary of the Interiors' Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings
  - City of Laredo Historic Urban Design Guidelines
  - City of Laredo Historic Preservation Plan
4. No other improvements, changes to the building, site or new construction on the property shall be permitted without prior review and approval by staff and/or Historic District Landmark Board, to meet compliance.
5. As per the Secretary of the Interior's Standards for Rehabilitation and Illustrated Guidelines for Rehabilitating Historic Buildings, all proposed scope of work should be physically and visually compatible to the original materials and features of the historical structure.

Chairman Narvaez opened the public hearing.

Teresa Fonseca, Project Architect, provided a brief presentation outlining the proposed project. She explained that the building contains approximately 300 windows, many of which are beyond repair. As a result, the proposal includes replacing the north-facing second and third floor windows with aluminum clad wood windows manufactured by Marvin. She noted that the proposed windows are designed to match the existing window profiles and that the aluminum cladding would serve to protect the wood. Ms. Fonseca also stated that any materials that can be salvaged from the north second and third floor windows would be reused to repair and restore windows on the south second and third floor elevations.

Vanessa Guerra, Planning Director, informed the Commission that while health and safety considerations are important, staff must adhere to the adopted historic preservation guidelines. She noted that, according to the guidelines, the use of cladding on historic windows is generally not recommended.

Chairman Narvaez, requested a motion to close the public hearing and action for HD-002-2026.

Bm. Nance made a motion to close the public hearing, support Staff recommendation and **approve** Item No's 1 through 3, and go against Staff recommendation and **approve** Item No. 4 in HD-002-2026.

Second:	Bm. Santana
For:	6
Against:	0
Abstain:	0

Motion carried Unanimously

**C. Amending Chapter 28 of the City of Laredo Code of Ordinances, Article II to prohibit illuminated signage for all properties located along all Right-of-Ways (ROW) abutting designated historic plaza; providing a severability; establishing an effective date; and providing for publication.**

Vanessa Fresnillo, Planning Staff, provided a brief overview on the item.

Vanessa Guerra, Planning Director, informed the Board an asterisk (\*), has been added to the legend explaining “Illuminated signage shall be prohibited on all properties located along the right-of-way abutting the perimeter of designated plazas in accordance with Section 28-41 (c)”.

Staff Recommendation: Staff **supports** the proposed ordinance which will prevent illuminated signs on properties located along the Right-of-Ways abutting the perimeter of, in and adjacent to the following City of Laredo designated plazas – San Agustin Plaza, Jarvis Plaza, El Mercado Plaza, Bruni Plaza, and St. Peter’s Plaza.

Chairman Narvaez opened the public hearing.

Chairman Narvaez requested a motion to close the public hearing and action on the proposed ordinance.

Bm. Nance made a motion to close the public hearing and **supports** Staff’s recommendation.

Second:	Bm. Villarreal
For:	6
Against:	0
Abstain:	0

Motion carried Unanimously

Vanessa Guerra, Planning Director, introduced and welcomed Ana Villarreal to the Board. She also expressed her appreciation to Vanessa Fresnillo, Planner, for drafting her first ordinance and commended her for the work completed.

Board members discussed the importance of educating property owners on the rules and regulations that apply to properties located within the historic districts.

Vanessa Guerra, Planning Director, informed the Board that staff remains available to meet with property owners to address any questions or concerns. She further noted the City has invested significantly in several incentive programs intended to assist property owners within historic districts, including the Neighborhood Empowerment Zone (NEZ), the Façade Improvement

Program, and initiatives led by the Tax Increment Reinvestment Zone (TIRZ) Board to support continued improvements in the downtown area.

**7. ADJOURNMENT**

Chairman Narvaez requested the meeting be adjourned at 12:59 p.m.

Bm. Villarreal made a **motion** to adjourn the meeting.

Second:	Bm. Nance
For:	6
Against:	0
Abstain:	0

---

Vanessa Guerra,  
City Planning Director

---

Johnny Narvaez  
HDLB Chair

# City of Laredo

## Historic District / Landmark Board

---

**Meeting Date:** 3/12/2026

**Action Item 6A.**

---

### **SUBJECT**

Public hearing and consideration of a motion to consider the new construction of a solar panel pergola and the addition of solar panels on the existing residential structure on Lot 1, Block 201, Western Division, located at 1602 Washington Street. This property is within Saint Peter's Historic District.

HD-004-2026  
District VIII

### **BACKGROUND**

Initiated by: Ruth Chatelain, Owner; Peg Energy, Applicant

Previous Action:  
None.

Current Proposed Scope of Work:

The applicant proposes:

1. Construction of a new solar panel pergola in the front yard of the residence
2. Installation of solar panels on the existing roof of the historic structure.

Building Type:

- The subject property is a one-story, wood-frame vernacular residential structure, originally constructed circa 1900. According to the February 1925 Sanborn Fire Insurance Maps, the dwelling is identified as a single-story residence with a roof composed of mixed materials, including shingles and either slate or tin. The 1981 Cultural Resources Survey further classifies the structure as a wood-frame vernacular building, consistent with common residential construction methods of the late nineteenth to early twentieth century.

Site: The property is an H-RO (Historic Residential Office District) zoning district.

Letters sent to the surrounding property owners: 18

For: 0

Against: 0

Granting or Denying an Application:

- As per the Laredo Land Development Code, Section 24.1.2.2(2), the Historic District Landmark Board shall utilize the Secretary of the Interior's Standards for Rehabilitation and Illustrated Guidelines for Rehabilitating Historic Buildings; and the City of Laredo, Texas, Historic Urban Design Guidelines

Secretary of the Interior’s Standards:

1. A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces and spatial relationships.
2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces and spatial relationships that characterize a property will be avoided.
3. Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
4. Changes to a property that have acquired historic significance in their own right will be retained and preserved.
5. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.
6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.
7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.
8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.
9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.
10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

**STAFF RECOMMENDATION**

\*THE PURPOSE OF THIS APPLICATION REVIEW BEFORE THE HISTORIC DISTRICT/LANDMARK BOARD (HDLB) IS FOR HISTORIC COMPLIANCE ONLY. APPROVAL FROM THE HDLB DOES NOT GUARANTEE A CONSTRUCTION PERMIT, OR ANY OTHER TYPE OF PERMIT THAT MIGHT BE REQUIRED FOR THIS PROJECT.

Staff supports the proposed new construction of the solar panel pergola for the following reasons:

1. Construction of a new solar panel pergola in the front yard will not adversely affect the historic character, setting, and spatial relationships of the property.
  - The proposed solar panel pergola is a freestanding structure and does not require alterations to the historic materials, features, or architectural elements of the residence. As such, the defining characteristics of the historic home will remain intact. (Standard 2)
  - The proposed pergola structure is not physically attached to the historic residence. As a result, if the pergola were to be removed in the future, the essential form, materials, and integrity of the historic residential structure and its environment would remain unimpaired. (Standard 10)

Staff supports the installation of the solar panels on the existing roof for the following reasons:

1. Installation of solar panels on the existing roof are low-profile, minimally visible, reversible, and do not require removal of significant historic materials.

- Roof-mounted panels should not require removal of historic roofing materials beyond what is necessary for attachment and should avoid altering the historic roof form, pitch, or visible architectural detailing. (Standard 2 and 5)

- Solar panels will be low-profile, mounted flush with the roof plane, and placed in a manner that minimizes visibility from the public right-of-way, particularly on primary elevations. (Standard 9)

- The panels and mounting system should be installed so that, if removed in the future, the essential form and integrity of the historic roof would remain intact. (Standard 10)

Staff General Comments:

1. Any improvements which are approved by the Historic District Landmark Board shall also comply with all Building Code requirements and other regulations as provided in the Laredo Land Development Code.

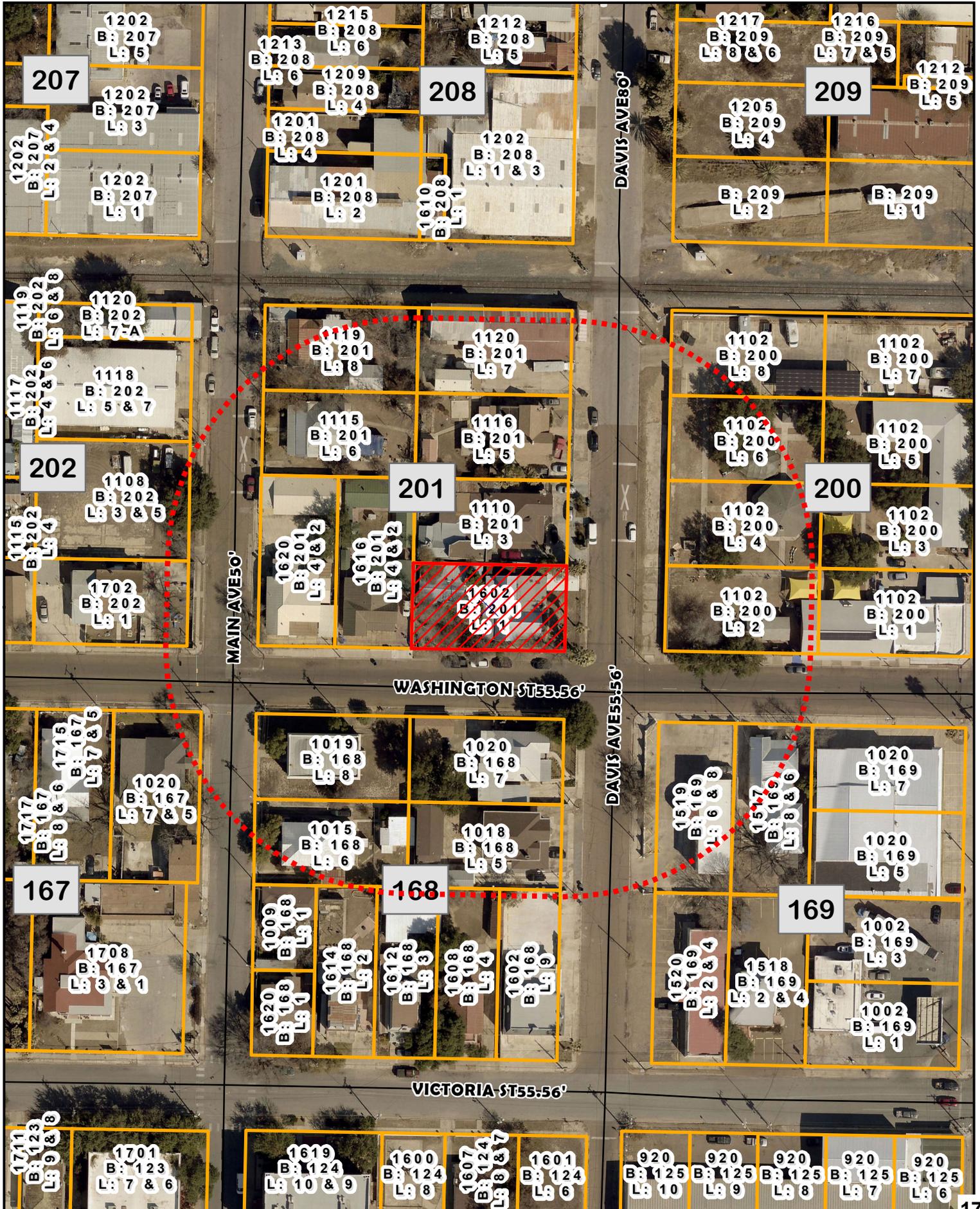
2. Approval by the Historic District Landmark Board does not guarantee approval of a building permit or any other permit which may be required.

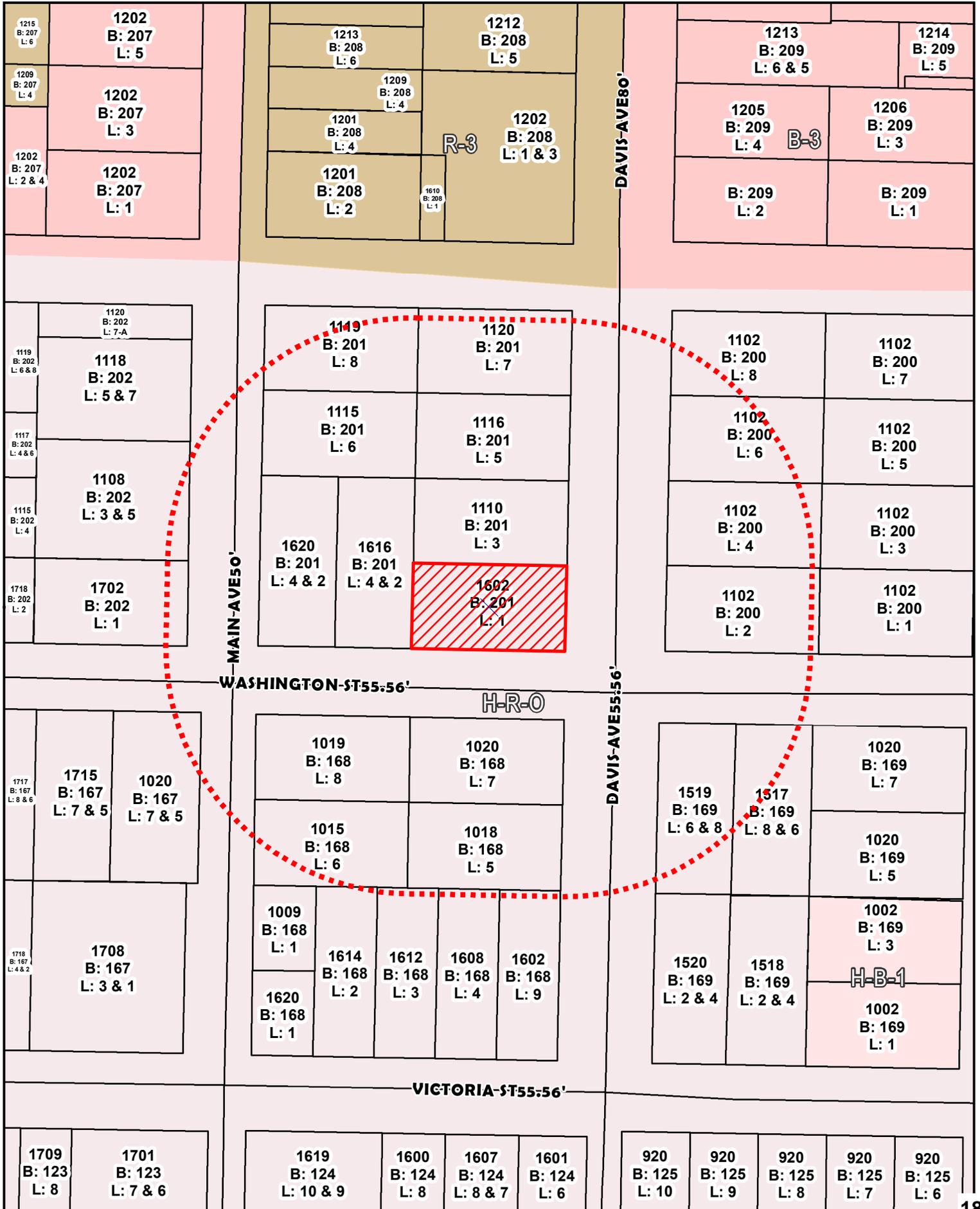
3. It is recommended that all existed improvements utilize the following resources as a guide:

- The Secretary of the Interiors' Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings
- City of Laredo Historic Urban Design Guidelines
- City of Laredo Historic Preservation Plan

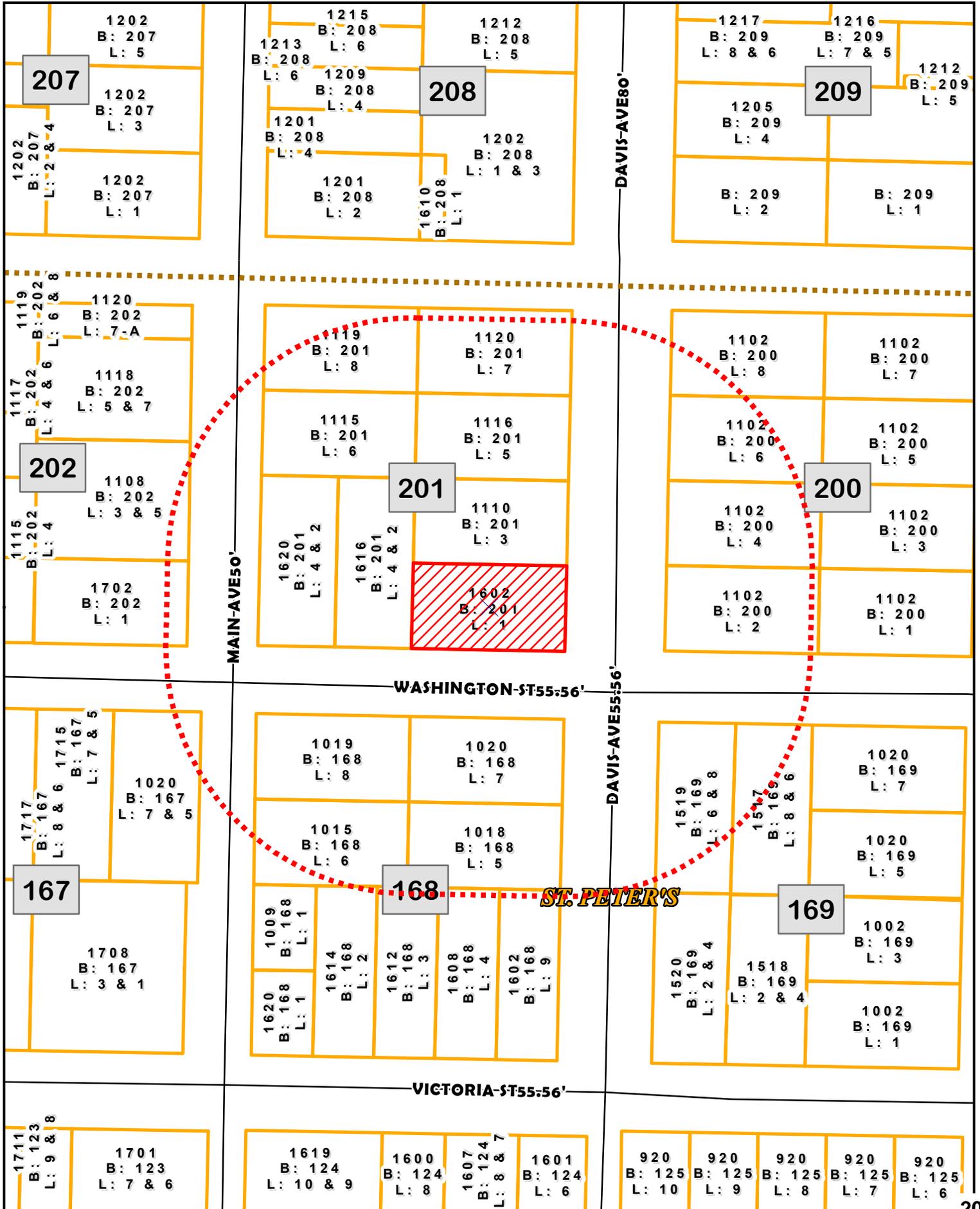
4. No other improvements, changes to the building, site or new construction on the property shall be permitted without prior review and approval by staff and/or Historic District Landmark Board, to meet compliance.

5. As per the Secretary of the Interior's Standards for Rehabilitation and Illustrated Guidelines for Rehabilitating Historic Buildings, all proposed scope of work should be physically and visually compatible to the original materials and features of the historical structure.





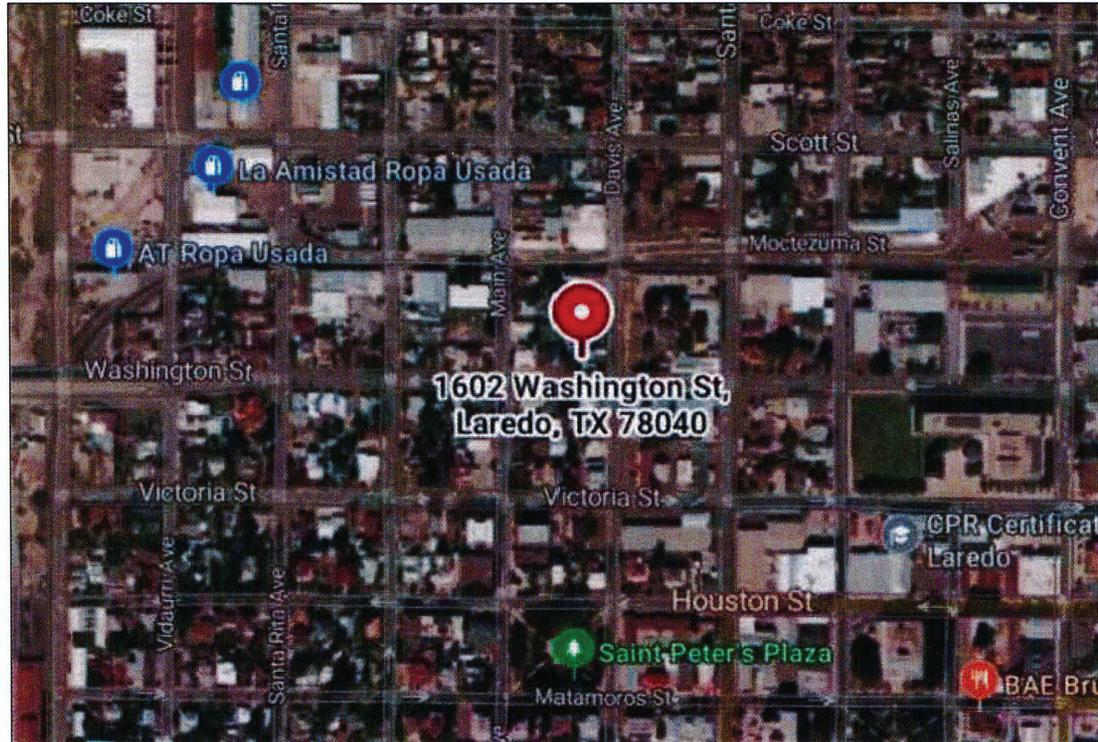




# 1602 WASHINGTON STREET 6.10 KW DC PHOTOVOLTAIC SYSTEM

TABLE OF CONTENTS:

E1.1	THREE-LINE DIAGRAM
E1.2	BUILDING ELEVATIONS
E2.1	SITE PLAN
E2.2	LABELS
E2.3	STREET VIEW
E3.1	MODULE DATA SHEET
E3.2	RSD DATA SHEET
E3.3	INVERTER DATA SHEET



VICINITY MAP

PROJECT SITE:  
1602 WASHINGTON STREET,  
LAREDO, TX 78040

PEG ENERGY 7800 IH 10, SUITE 610 SAN ANTONIO, TX 78230 (956) 203-0669	
PROJECT: <b>6.10 KW-DC PV SYSTEM</b> 1602 WASHINGTON STREET, LAREDO, TX 78040	
SUBMITTAL DATE: 01-26-2026	REVISION DATE: REVISION DATE:
DESIGNED BY: A.E.Z.	DRAWN BY: A.E.Z. CHECKED BY:
SHEET TITLE: <b>TITLE SHEET</b>	
SHEET ID: <b>E0</b>	

EQUIPMENT SCHEDULE				
○ TAG	DESCRIPTION	COUNT	PART NUMBER	NOTES
1	SOLAR MODULE	21	JAP6-72-305/388	JINKO SOLAR
2	RSD	11	RSD-D-20	APSMART
3	JBOX	1	278304	KRALOY
4	GROWATT INVERTER	1	MIN 6000L-XH-US	GROWATT
5	AC DISC SWITCH	1	DG22URB	EATON 60A/2P/NF
6	EXIST. MAIN SERVICE PANEL	1	-	-
7	PV BREAKER	1	-	60A/2P
8	EXIST. GROUNDING ELECTRODE	1	-	VERIFY EXISTING GROUNDING ELECTRODE SYSTEM, UPGRADE IF REQUIRED
9	SUPPLEMENTAL GROUND ROD	1	-	5/8" XB" COPPER GROUND

CONDUIT AND CONDUCTOR SCHEDULE					
△ TAG	DESCRIPTION OR CONDUCTOR TYPE	COND. GAUGE	NUMBERS OF CONDUCTORS	CONDUIT TYPE	CONDUIT SIZE
1	PV CABLE	#10/#8G	6/1	EMT	3/4"
2	THWN-2	#10/#10G	6/1	PVC	3/4"
3	THWN-2	#10/#10G	6/1	EMT	3/4"
4	THWN-2	#6/#8G	3/1	EMT	3/4"
5	EXIST. BARE COPPER WIRE	#6	1	PVC	3/4"
6	BARE COPPER WIRE	#6	1	N/A	3/4"

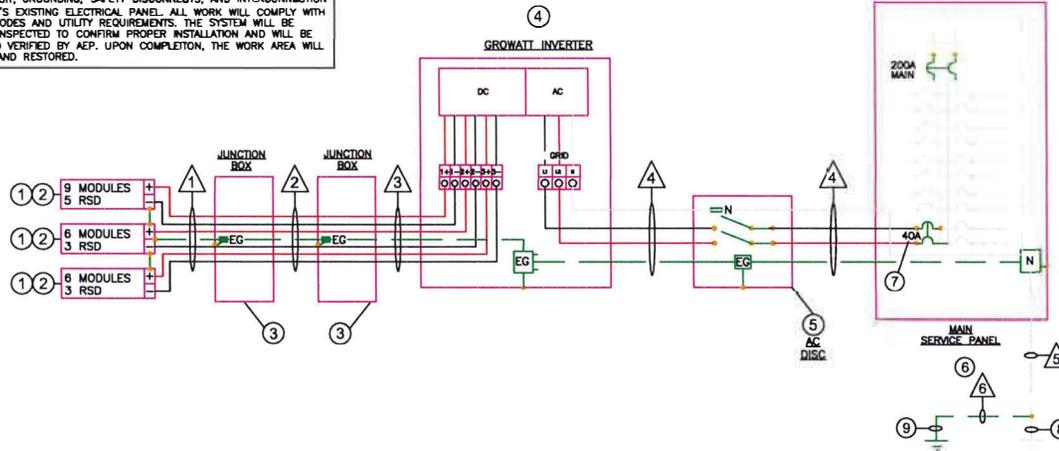
PV MODULES RATING @STC	
MODULE MAKE	JIA SOLAR
MODULE MODEL	JAP6-72-305/388
MAX POWER POINT CURRENT [Imp]	8.83A
MAX POWER POINT VOLTAGE [Vmp]	36.71V
OPEN-CIRCUIT VOLTAGE [Voc]	45.35V
SHORT-CIRCUIT CURRENT [Isc]	8.78A
MAXIMUM POWER [Pmax]	325W

INVERTER RATING	
INVERTER MFG	GROWATT
INVERTER MODEL	MIN 6000L-XH-US
MAX INPUT DC VOLTAGE	600V
MAX INPUT DC CURRENT (MODULE ISC)	15.9A
NOMINAL OUTPUT AC VOLTAGE	240V
PEAK OUTPUT AC CURRENT	25A
DC-DC INVERTER EFFICIENCY	97.00%

LABELS	
PHOTOVOLTAIC AC DISCONNECT	
AC OUTPUT CURRENT	25 A
NOMINAL AC VOLTAGE	240 V
LABEL AT 60A/2P DISC SW	

*scope of work*

NOTE: THIS PROJECT INCLUDES THE INSTALLATION OF A NEW SOLAR PHOTOVOLTAIC (PV) SYSTEM CONSISTING OF FREESTANDING SOLAR PERGOLA AND ADDITIONAL SOLAR MODULES INSTALLED ON THE ROOFTOP OF THE EXISTING RESIDENCE, ALL CONNECTED TO THE UTILITY GRID. THE SOLAR PERGOLA WILL BE FREESTANDING AND NOT ATTACHED TO ANY EXISTING STRUCTURES. WORK WILL INCLUDE LAYOUT VERIFICATION AND INSTALLATION OF PERGOLA FOOTINGS, STRUCTURAL SUPPORTS, AND FRAMING DESIGNED TO SUPPORT SOLAR MODULES. SOLAR MODULES WILL BE MOUNTED ON THE SOLAR PERGOLA STRUCTURE AND ON DESIGNATED ROOF AREAS OF THE HOME USING APPROVED MOUNTING SYSTEMS. THE PROJECT INCLUDES INSTALLATION OF INVERTER(S), REQUIRED MOUNTING HARDWARE, ELECTRICAL WIRING, CONDUIT, GROUNDING, SAFETY DISCONNECTS, AND INTERCONNECTION TO THE HOME'S EXISTING ELECTRICAL PANEL. ALL WORK WILL COMPLY WITH APPLICABLE CODES AND UTILITY REQUIREMENTS. THE SYSTEM WILL BE TESTED AND INSPECTED TO CONFIRM PROPER INSTALLATION AND WILL BE REVIEWED AND VERIFIED BY AEP. UPON COMPLETION, THE WORK AREA WILL BE CLEANED AND RESTORED.



1 ELECTRICAL THREE - LINE DIAGRAM

Scale: N.T.S.

PEG ENERGY  
7800 H 10, SUITE 610  
SAN ANTONIO, TX 78230  
(956) 203-0669

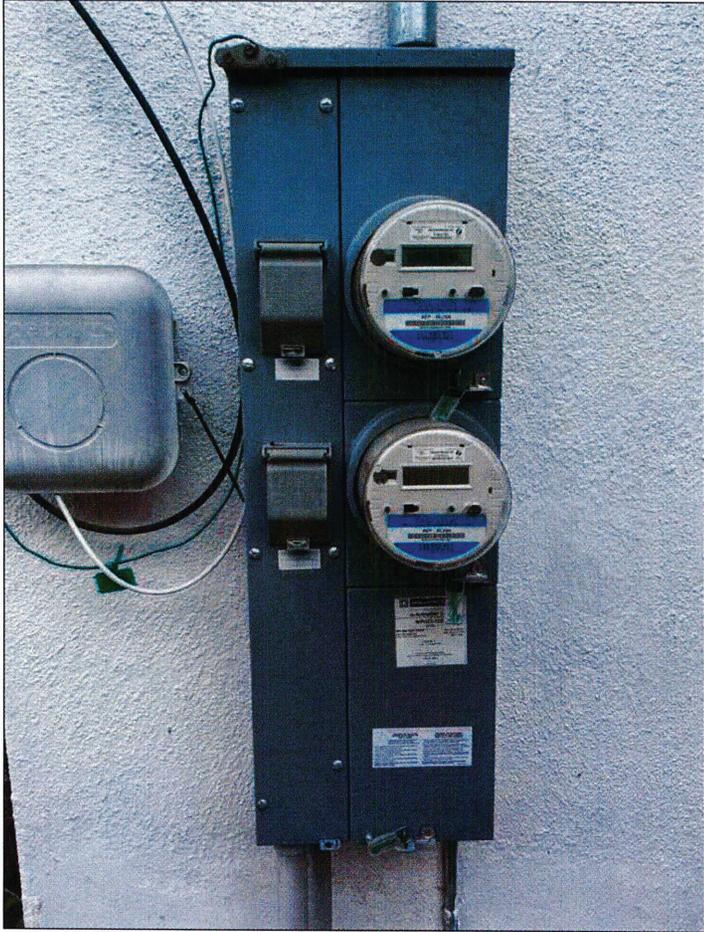
PROJECT:  
6.10 KW-DC PV SYSTEM  
1602 WASHINGTON STREET,  
LAREDO, TX 78040

SUBMITTAL DATE:  
01-28-2026  
REVISION DATE:  
REVISION DATE:

DESIGNED BY:  
A.E.Z.  
DRAWN BY:  
A.E.Z.  
CHECKED BY:

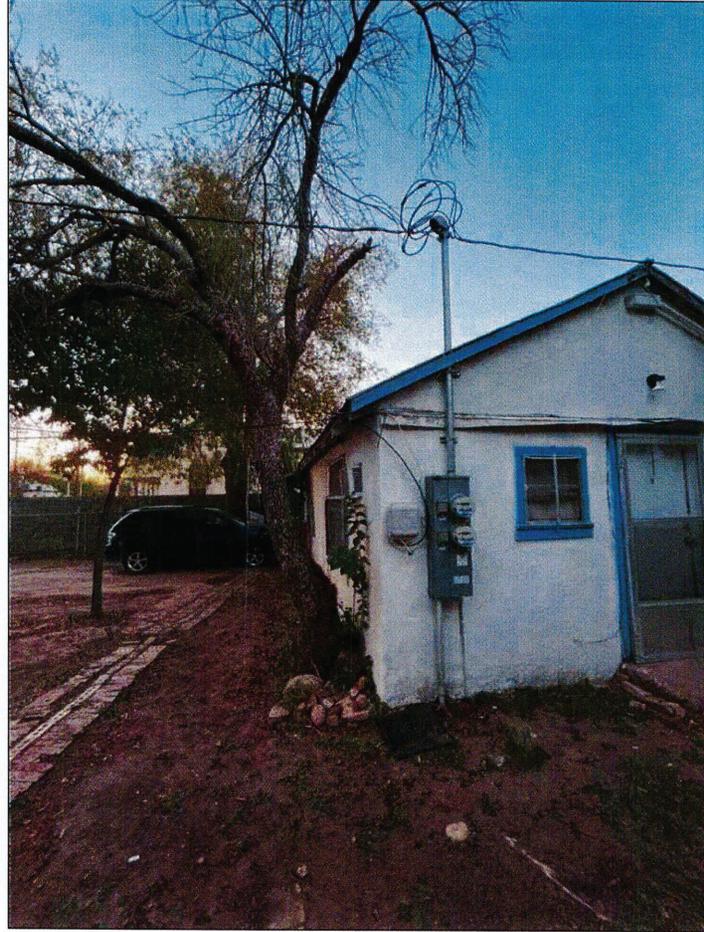
SHEET TITLE:  
THREE LINE  
DIAGRAM

SHEET ID:  
E1.1



1 EXISTING ELECTRICAL SERVICE

Scale: N.T.S.



2 EXISTING EAST BLDG ELEVATION

Scale: N.T.S.

PEG ENERGY  
7800 IH 10, SUITE 610  
SAN ANTONIO, TX 78230  
(956) 203-0669

PROJECT:  
6.10 KW-DC PV SYSTEM  
1602 WASHINGTON STREET,  
LAREDO, TX 78040

DESIGNED BY: A.E.Z.	SUBMITTAL DATE: 01-28-2026
DRAWN BY: A.E.Z.	REVISION DATE:
CHECKED BY:	REVISION DATE:

SHEET TITLE:  
BLDG  
ELEVATIONS

SHEET ID:  
E1.2



FIGURE 2000.6  
LABELING REQUIREMENTS FOR TYPICAL PHOTOVOLTAIC (PV) SYSTEMS

LABELS LISTED BELOW REPRESENT BASIC LABELING ASSOCIATED WITH A TYPICAL PHOTOVOLTAIC (PV) SYSTEM INSTALLATION AND IS NOT INTENDED TO INCLUDE ALL LABELING WHICH MAY BE REQUIRED BY THE NEC AND AHJ.

**PV DC DISCONNECT**  
(2017 NEC ARTICLES: 690.53)

**PV SYSTEM DC DISCONNECT**

MAXIMUM VOLTAGE: XXX  
 MAXIMUM CIRCUIT CURRENT: XXX  
 MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC TO DC CONVERTER (IF INSTALLED): XXX

**PV AC DISCONNECT**  
(2017 NEC ARTICLE 690.13 (B))

**PV SYSTEM AC DISCONNECT**

RATED AC OUTPUT CURRENT: XXX  
 NOMINAL OPERATING AC VOLTAGE: XXX

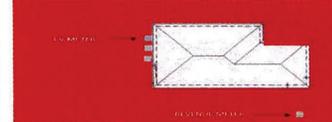
**PV METER SOCKET**

**PV METER**

**CPS ENERGY REVENUE METER SOCKET:**

**REVENUE METER**

**NOTE:** PLACARD BELOW REQUIRED ON BOTH REVENUE AND PV METER SOCKETS WHERE METERS HAVE BEEN APPROVED TO BE REMOTE FROM ONE ANOTHER.



**INVERTER OUTPUT CONNECTION:**  
(2017 NEC ARTICLE 705.12 (B) (2) (3) (b))

**WARNING: INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE**

**RACEWAYS/ENCLOSURES CONTAINING DC CONDUCTORS:**

**WARNING: PHOTOVOLTAIC POWER SOURCE**

**NOTES:**

- 1- LABELING SHALL BE PERMANENTLY AFFIXED AND SUITABLE FOR THE ENVIRONMENT AND IN ACCORDANCE WITH 2017 NEC, ARTICLE 110.21 (B).
- 2- PV METER SHALL BE LOCATED ADJACENT TO THE REVENUE METER UNLESS PRE-APPROVED BY CPS ENERGY TO BE LOCATED REMOTELY DUE TO SPECIAL CIRCUMSTANCES.

**CUSTOMER SERVICE PANEL**  
DIRECTORY/POLAQUE (2017 NEC ARTICLE 705.10)

**CAUTION**

PLACED ON SERVICE PANEL AND ON SYSTEM DISCONNECTS FOR OTHER ELECTRIC POWER PRODUCTION SOURCES WHEN NOT GROUPED

**RAPID SHUTDOWN PLACARD (2017 NEC ARTICLE 690.56)**

**SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN**

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY

PLACED ON SERVICE PANEL FOR SYSTEMS THAT SHUTDOWN THE ARRAY AND CONDUCTORS LEAVING ARRAY.

**RAPID SHUTDOWN PLACARD (2017 NEC ARTICLE 690.56)**

**SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN**

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM. CONDUCTORS WITHIN ARRAY REMAIN ENERGIZED IN SUNLIGHT

PLACED ON SERVICE PANEL FOR SYSTEMS THAT ONLY SHUT DOWN CONDUCTORS WITHIN 10 FT OF LEAVING THE ARRAY.

**RAPID SHUTDOWN SWITCH:**  
(2017 NEC ARTICLE 690.12 (C))

**RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM**

PLACED ON INVERTER DC DISCONNECT SWITCH WHEN SWITCH SHUTS DOWN THE ARRAY AND CONDUCTORS LEAVING ARRAY

**PV/AC AGGREGATE PANEL:**

**PV/AC AGGREGATE PANEL: DO NOT REMOVE, ADD OR RELOCATE ANY CIRCUITS FROM THIS PANEL**

PROVIDE THIS LABEL FOR SOLAREEDGE AND MICRO-INVERTER SYSTEMS ONLY.

PROVIDE THIS LABEL FOR ALL OTHERS EXCEPT SOLAREEDGE AND MICRO-INVERTER SYSTEMS.

PEG ENERGY  
7800 IH 10, SUITE 610  
SAN ANTONIO, TX 78230  
(956) 203-0669

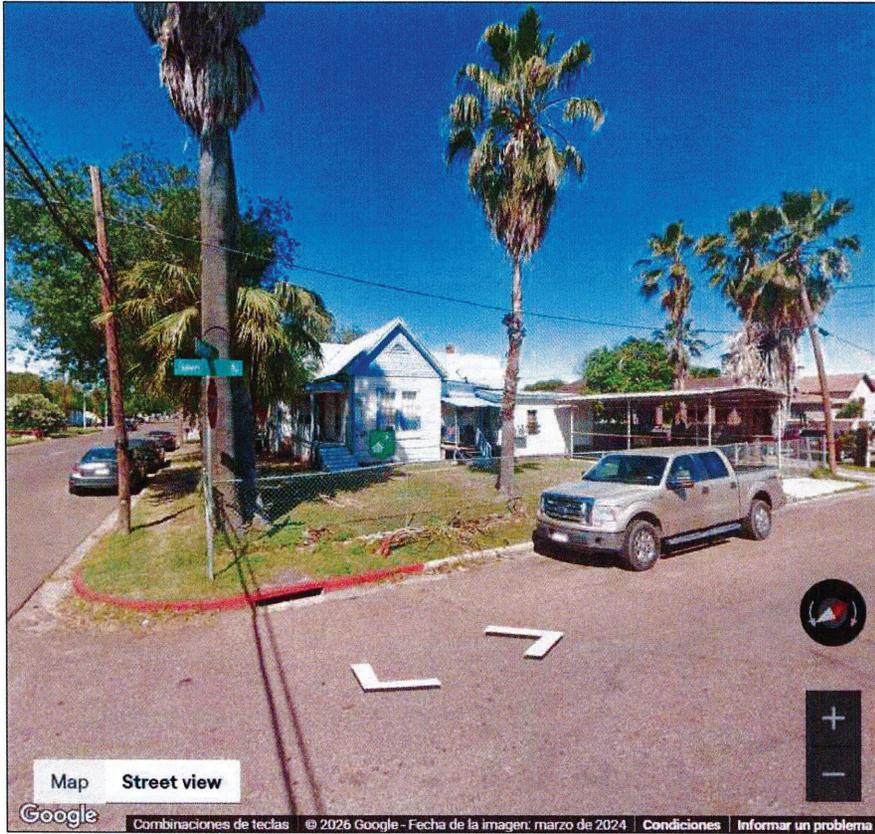
PROJECT:  
**6.10 KW-DC PV SYSTEM**  
1602 WASHINGTON STREET,  
LAREDO, TX 78040

SUBMITTAL DATE: 01-28-2026	REVISION DATE:	REVISION DATE:
-------------------------------	----------------	----------------

DESIGNED BY: A.E.Z.	DRAWN BY: A.E.Z.	CHECKED BY:
------------------------	---------------------	-------------

SHEET TITLE:  
**LABELS**

SHEET ID:  
**E2.2**



1 STREET VIEW

PEG ENERGY  
7800 IH 10, SUITE 610  
SAN ANTONIO, TX 78230  
(956) 203-0669

PROJECT:  
6.10 KW-DC PV SYSTEM  
1802 WASHINGTON STREET,  
LAREDO, TX 78040

DESIGNED BY: A.E.Z.	SUBMITTAL DATE: 01-28-2026
DRAWN BY: A.E.Z.	REVISION DATE:
CHECKED BY:	REVISION DATE:

SHEET TITLE:  
**STREET VIEW**

SHEET ID:  
**E2.3**



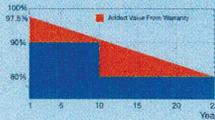
### JA Solar Holdings Co., Ltd.

JA Solar Holdings Co., Ltd. is a world-leading manufacturer of high-performance photovoltaic products that convert sunlight into electricity for residential, commercial, and utility-scale power generation. The company was founded on May 18, 2005, and was publicly listed on NASDAQ on February 7, 2007. JA Solar is one of the world's largest producers of solar cells and modules. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry.

A d d : NO.36, Jiang Chang San Road, Zhabei, Shanghai 200438, China  
 T e l : +86 21 6095 5888 / +86 21 6095 5999  
 F a x : +86 21 6095 5858 / +86 21 6095 5959  
 Email: sales@jasolar.com, market@jasolar.com

### Superior Warranty

- 10-year product warranty
- 25-year linear power output warranty



www.jasolar.com

JA SOLAR

# JAP6

-72/300-320/3BB

MULTICRYSTALLINE SILICON MODULE

### Key Features

- Multicrystalline modules designed for commercial and solar farm grid-tied applications
- High output, 16.51% highest conversion efficiency
- Designed for IEC DC 1000V applications
- Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- Outstanding performance in low-light irradiance environments
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)
- High salt and ammonia resistance certified by TUV NORD

### Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defect-free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

### Comprehensive Certificates

- IEC 61215, IEC 61730, UL1703, CEC Listed, MCS and CE
- ISO 9001: 2008: Quality management systems
- ISO 14001: 2004: Environmental management systems
- BS OHSAS 18001: 2007: Occupational health and safety management systems
- Environmental policy: The first solar company in China to complete Intertek's carbon footprint evaluation program and receive green leaf mark verification for our products

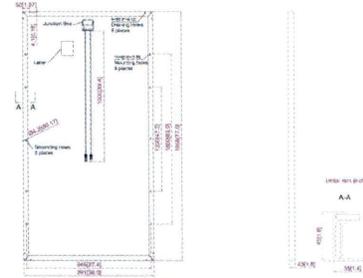
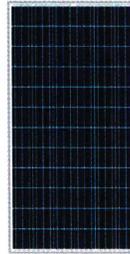


Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.

# JAP6

-72/300-320/3BB

Engineering Drawings



■ customized cable length available upon request

### MECHANICAL PARAMETERS

Cell (mm)	Poly 156x156
Weight (kg)	26 (approx)
Glass Thickness	4 mm
Dimensions (LxWxH) (mm)	1956x991x45
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connectors	72 (6x12)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	23 Per Pallet

### WORKING CONDITIONS

Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	15A
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Application Class	Class A

### ELECTRICAL PARAMETERS

TYPE	JAP6-72-300/3BB	JAP6-72-305/3BB	JAP6-72-310/3BB	JAP6-72-315/3BB	JAP6-72-320/3BB
Rated Maximum Power at STC (W)	300	306	310	315	320
Open Circuit Voltage (Voc) [V]	45.20	45.35	45.45	45.60	45.82
Maximum Power Voltage (Vmp) [V]	36.41	36.71	37.00	37.28	37.56
Short Circuit Current (Isc) [A]	8.73	8.79	8.85	8.91	9.03
Maximum Power Current (Imp) [A]	8.24	8.31	8.38	8.45	8.52
Module Efficiency [%]	15.48	15.73	15.99	16.25	16.51
Power Tolerance (W)	-0 ~ +5W				
Temperature Coefficient of Isc (αisc)	+0.058%/°C				
Temperature Coefficient of Voc (αVoc)	-0.330%/°C				
Temperature Coefficient of Pmax (αPmax)	-0.410%/°C				
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5				

### NOCT

TYPE	JAP6-72-300/3BB	JAP6-72-305/3BB	JAP6-72-310/3BB	JAP6-72-315/3BB	JAP6-72-320/3BB
Max Power (Pmax) [W]	217.80	221.43	225.06	228.69	232.32
Open Circuit Voltage (Voc) [V]	42.31	42.47	42.58	42.63	42.78
Max Power Voltage (Vmp) [V]	33.77	33.91	34.05	34.08	34.28
Short Circuit Current (Isc) [A]	6.89	6.93	6.99	7.05	7.16
Max Power Current (Imp) [A]	6.45	6.53	6.61	6.71	6.78

Condition Under Normal Operating Cell Temperature, Irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

JA Solar 01.2015

JA SOLAR

PEG ENERGY  
 7800 IH 10, SUITE 610  
 SAN ANTONIO, TX 78230  
 (956) 203-0689

PROJECT:  
 6.10 KW-DC PV SYSTEM  
 1602 WASHINGTON STREET,  
 LAREDO, TX 78040

SUBMITTAL DATE:  
 01-28-2016  
 REVISION DATE:  
 REVISION DATE:

DESIGNED BY:  
 A.E.Z.  
 DRAWN BY:  
 A.E.Z.  
 CHECKED BY:

SHEET TITLE:  
**MODULES  
 DATA SHT**

SHEET ID:  
**E3.1**



Raising the bar in innovative DC MLPE solar power systems

# RSD-D

- Meets NEC 2017, 2020&2023 (690.12) requirements
- Executes rapid shutdown of system when Transmitter signal is absent
- Meets SunSpec requirements
- Dual input channel

RSD-D meets SunSpec requirements, maintaining normal function by continually receiving a heartbeat signal from the APsmart Transmitter. The RSD-D executes rapid system shutdown when the Transmitter signal is absent. Users can manually execute rapid shutdown using Transmitter breaker switch.<sup>(1)(2)</sup>

## RSD-D TECHNICAL DATA

MODEL	RSD-D-15		RSD-D-20
<b>INPUT DATA (DC)</b>			
Range of Input Operating Voltage	8-65V Per Channel		
Maximum Cont. Input Current (Imax)	15A Per Channel	25A	20A Per Channel
Maximum Short Circuit Current (Isc)			
<b>OUTPUT DATA (DC)</b>			
Range of Output Operating Voltage	16-130V		
Maximum Cont. Output Current	15A		20A
Maximum System Voltage	1000V/1500V		
Maximum Series Fuse Rating	30A		
<b>MECHANICAL DATA</b>			
Operating Ambient Temperature Range	-40 oF to +167 oF (-40 °C to + 75 °C)		
Dimensions (without cable & connectors)	5.5" x 2" x 0.8"(140 mm x 50.6 mm x 20 mm)		
Cable Length	Input 500mm/Output 2400mm		
Cable Cross Section Size	TUV 4mm <sup>2</sup> /UL12AWG		
Connector	Input: Stäubli MC4 PV-KBT4&KST4 or Customize Output: APsystems specified or Customized		
Enclosure Rating	NEMA Type 6P/IP68		
Protection Temperature	100°C		
<b>FEATURES &amp; COMPLIANCE</b>			
Communication Compliance	PLC		
Safety Compliance	NEC 2017, 2020&2023 (690.12); UL1741; CSA C22.2 No. 330-17; IEC/EN62109-1		
EMC Compliance	FCC Part15; ICES-003		



© All Rights Reserved

<sup>(1)</sup> RSD-D does not have automatic shutdown function for arc detection. When the system is abnormal, the transmitter signal is cut off by pulling the gate, which triggers shutdown.  
<sup>(2)</sup> RSD-D is designed to reduce the risk of fire suppression but does not solve the risk of an arc fire.

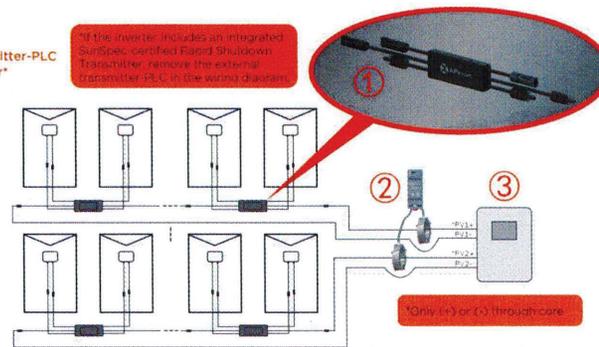
REV.3 2023-10-07



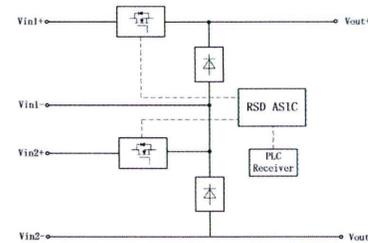
## RSD-D WIRING DIAGRAM

- 1 RSD-D
- 2 Transmitter-PLC
- 3 Inverter\*

\*The inverter includes an integrated SunSpec-certified Rapid Shutdown Transmitter, remove the external transmitter-PLC in the wiring diagram.



## WORKING SCHEMATIC DIAGRAM



## ORDERING INFORMATION

426101	1500V UL/1000V TUV, 15A, 2.4m cable, Stäubli MC4 PV-KBT4&KST4
446101	1500V UL/1000V TUV, 20A, 2.4m cable, Stäubli MC4 PV-KBT4&KST4
4261xx*	15A, 2.4m cable, Customize connector
4461xx*	20A, 2.4m cable, Customize connector

\*Please see the RSD Series Ordering information



8627 N Mopac Expy, Suite 150, Austin, TX 78759 | +1-737-218-8486 |  
+1-866-374-8538 | support@APsmartGlobal.com | APsmartGlobal.com

REV.3 2023-10-07

PEG ENERGY  
7800 IH 10, SUITE 610  
SAN ANTONIO, TX 78230  
(956) 203-0669

PROJECT:  
6.10 KW-DC PV SYSTEM  
1602 WASHINGTON STREET,  
LAREDO, TX 78040

SUBMITTAL DATE:  
01-28-2026

REVISION DATE:

REVISION DATE:

DESIGNED BY:  
A.E.Z

DRAWN BY:  
A.E.Z

CHECKED BY:

SHEET TITLE:  
MODULES  
DATA SHEET

SHEET ID:  
E3.2

# MIN 3000~7600TL-XH-US

- Battery Ready for DC Coupled and AC Coupled systems
- With backup power and dark start operations
- Support RSD and AFCI
- Support multiple energy management modes: Self-consumption, Zero Export, TOU and Off-grid
- Comply with UL1741SA/SB, CA Rule 21 & HECO



**GROWATT**

<https://us.growatt.com>

P O W E R  
- I N G  
T O M O R R O W

Datasheet	MIN 3000TL-XH-US	MIN 3800TL-XH-US	MIN 5000TL-XH-US	MIN 6000TL-XH-US	MIN 7600TL-XH-US
<b>Input Data (PV)</b>					
Max. Recommended PV Power(GTCT)	6000W	7600W	10000W	12000W	15200W
DC/AC Ratio			2		
Max. DC System Voltage			600V		
Startup Voltage			80V		
Full load Voltage range	120-500V	150-500V	200-500V	140-500V	200-500V
Nominal Voltage			360V		
Operating Voltage Range			Growatt Battery 50~550V/LG Battery 50~450V		
No. of MPPT	2	2	2	3	3
No. of PV Strings per MPPT	2/2	2/2	2/2	2/2/2	2/2/2
Max. Input Current per MPPT			13.5A		
Max. Short-circuit Current per MPPT			16.9A		
<b>Input/Output Data (Battery)</b>					
I/O Voltage Range	Growatt APX Battery 380V~550V / Growatt ARO Battery 360V~550V/LG Battery 360V~450V				
Nominal DC Voltage	400V				
I/O DC Current	8.9A	11.1A	14.4A	17.2A	21.7A
I/O DC Power	3200W	4000W	5200W	6700W	8500W
Battery Technology	LFP				
Battery Capacity per Module	APX 8kWh / ARO 3.3kWh / LG 10kWh, 16kWh / LG enblock S10: 10.6kWh / LG enblock S14: 14.1kWh / LG enblock S17: 17.7kWh				
Scalability	APX 50~300kWh / ARO 6.6~39kWh / LG Prime 10H 10~20kWh 16H 16~32kWh / LG enblock S10: 10.6~21.2kWh S14: 14.1~28.2kWh S17: 17.7~35.4kWh				
Compatible Batteries	Growatt APX HV Battery / Growatt ARO HV Battery / LG 10H Prime / LG 16H Prime / LG enblock S10 / LG enblock S14 / LG enblock S17				
<b>Output Data (AC)</b>					
AC Nominal Power@240V AC	3000W	3800W	5000W	6000W	7600W
AC Nominal Power@208V AC	2400W	3200W	4200W	5200W	6500W
Max. AC Apparent Power	3000VA	3800VA	5000VA	6000VA	7600VA
Nominal AC Voltage	208V/240V				
AC Voltage Range @208V AC @240V AC	181V~229V/211V~264V				
AC Grid Frequency	50/60Hz				
AC Grid Frequency Range	±1%				
Max. Output Current	12.5A	16A	21A	25A	32A
Max. Output Overcurrent Protection	20A	26A	30A	40A	40A
Power Factor@(Nominal Power)	>0.99				
Adjustable Power Factor	0.8 Leading~0.8 Lagging				
THD	< 3%				
AC Grid Connection Type	L1/L2/N/PE				
<b>Output Data (Backup)</b>					
AC Nominal Power	3000W	3800W	5000W	6000W	7600W
Max. AC Power Output	4700VA	6000VA	7900VA	9400VA	12000VA
Nominal AC Voltage	240V				
Max. Output Current	20A	25A	33A	40A	50A
THD	2% linear load, 5% non-linear load				
AC Port-V2 inverter	2AC Ports, 1 for ON Grid, 1 for Backup(EPS) compatible with ATS-US for Partial Home Backup				
AC Port-V3 inverter	1AC Port for 1 ON Grid compatible with SYN200-US for Whole Home Backup				
<b>Efficiency</b>					
Max Efficiency	98.0%		98.2%	98.4%	98.4%
CEC Efficiency@240V AC	97.0%	97.0%	97.5%	97.0%	97.5%
CEC Efficiency@208V AC	96.5%	97.0%	97.5%	97.0%	97.0%
<b>Protection Devices</b>					
DC Reverse-polarity Protection	Yes				
DC Switch	Yes II				
DC Surge Protection	Type II				
Insulation Resistance Monitoring	Yes				
AC Surge Protection	Type III				
AC Short-circuit Protection	Yes				
Ground Fault Monitoring	Yes				
Grid Monitoring	Yes				
Anti-islanding Protection	Yes				
Residual-current Monitoring Unit	Yes				
AFCI Protection	Yes				
<b>General Data</b>					
Dimensions (W / H / D)	15.75/22.41/6.98 inch (400/569/170 mm)				
Weight	32.3lbs (14.65kg)				
Operating Temperature Range	-13°F ~ +140°F (-25°C ~ +60°C) de-rating above 113°F				
Altitude	9843ft (3000m)				
Internal Consumption at Night	~1W (for PV inverter)~5W (for storage inverter)				
Cooling	Natural Convection				
Electronics Protection Degree	NEMA4X (IP65)				
Relative Humidity	0~95%				
<b>Interfaces</b>					
RS485	Yes				
WiFi/4G Communication	Optional				
Warranty: 10 Years	Yes/optional for extended 15 and 20 years warranty)				
Revenue Grade Meter	ANSI C12.20 (meet 0.5% accuracy)				
*Support up to 50HP motor load					
*The above parameters are established in accordance with APX, LG battery					
*Due to the characteristics of the LG enblock S10 / LG enblock S14 / LG enblock S17, when the PV is disconnected the inverter of BESS system will disconnect the grid and restart					
*Optional built-in AFI transmitter (N.C is Surge RSD certified)					

GROWATT USA INC. Address: 9227 Reseda Blvd. #435 Northridge, CA 91324. Sales Hotline: 818 800 9455 Service Hotline: 1866 684 0298 Email: usa@growatt.com

PROJECT:  
PEG ENERGY  
7800 IH 10, SUITE 610  
SAN ANTONIO, TX 78230  
(956) 203-0669

6.10 KW-DC PV SYSTEM  
1602 WASHINGTON STREET,  
LAREDO, TX 78040

SUBMITTAL DATE:  
01-28-2026  
REVISION DATE:

DESIGNED BY:  
A.E.Z.  
DRAWN BY:  
A.E.Z.  
CHECKED BY:

SHEET TITLE:  
INVERTER  
DATA SHEET

SHEET ID:  
E3.3

June 4, 2019

Sol Attach, LLC  
535 Shady Hollow  
New Braunfels, TX 78132



Attn: Kevin Stapleton, CEO

RE: Solar Mounting System for Pitched Rooftops with Sol Attach Roof Mounting System in Texas

To Whom It May Concern:

Anchor Engineering, Inc. has reviewed the Sol Attach Roof Mounting System for the design assumptions outlined below and we have concluded that the Sol Attach Roof Mounting System is in compliance with the following codes/standards.

1. ASCE 7-05 – Minimum Design Loads for Buildings and Other Structures, by ASCE/SEI, 2005.
2. ASCE 7-10 – Minimum Design Loads for Buildings and Other Structures, by ASCE/SEI, 2010.
3. ASCE 7-16 – Minimum Design Loads for Buildings and Other Structures, by ASCE/SEI, 2018.
4. 2006 IBC/ 2009 IBC/ 2012 IBC/ 2015 IBC, 2018 IBC by International Code Council, 2006/2009/2012/2015/2018.
5. 2006 IRC/ 2009 IRC/ 2012 IRC/ 2015 IRC, 2018 IRC by International Code Council, 2006/2009/2012/2015/2018.

Design Assumptions:

- Maximum mean roof height of no more than 30'-0" as defined by ASCE 7-05/ASCE 7-10/ASCE7-16.
- Importance Factor of no more than 1.0 as defined by ASCE 7-05/ASCE 7-10/ASCE7-16.
- Dry service conditions.
- Array may be located within roof zones 1, 2, or 3.
- Analysis of the mount is based upon the maximum effects of either the largest gravity loads or wind uplift loads. The point loads (either positive or negative) can act in either direction depending upon the type of loading (i.e. wind, snow...etc.).
- Fasteners installed per manufacturer specifications.
- When using the Sol Attach, four PV mounts per PV module such that adjacent modules share two PV mounts.
- Use two Sol Attach per side unless noted otherwise (See charts below).
- At end clamp locations the Sol Attach Mount is only activated by one half of the panel.
- Snow load = 5 psf.

Product Specifications:

- Aluminum alloy is 6061-T6.
- Kwikseal II Woodbinder Screws. The screws must penetrate the sheathing fully and have a minimum of three threads exposed.
- (3) screws per Sol Attach Mount at end clamp locations.

Module Specifications:

- Modules may be installed in landscape or portrait orientation.
- Modules may have a maximum short side dimension of 39.1".
- Modules may have a maximum long side dimension of 77.1".
- Modules may be a maximum of 59.5lb.

❖ 2535 17<sup>th</sup> STREET, DENVER, CO 80211 ❖ 303-783-4797 ❖ 303-830-9133 FAX ❖



Roof Pitch: 7-27°			
Wind Speed, (V <sub>ult</sub> )	Wind Speed, (V <sub>wnd</sub> )	Exposure	Fastener Req'd per Sol Attach w/ 7/16" OSB
155 mph ≥ x	120 mph ≥ x	C	(6) Screws
155 mph ≥ x > 148 mph	120 mph ≥ x > 115 mph	B	(6) Screws
148 mph ≥ x	115 mph ≥ x	B	(4) Screws

Roof Pitch: 27-45°			
Wind Speed, (V <sub>ult</sub> )	Wind Speed, (V <sub>wnd</sub> )	Exposure	Fastener Req'd per Sol Attach w/ 7/16" OSB
155 mph ≥ x >	120 mph ≥ x	B, C	(4) Screws

Please see attached data sheets for the Sol Attach Roof Mounting System specification sheet.

The Sol Attach Roof Mounting System was evaluated for pull-out resistance of the fasteners and punching shear in the OSB. Review of any building structural element is outside the scope of this letter.

Should questions arise, or if further information is required, please contact our office.

Sincerely,  
Anchor Engineering, Inc.



Firm # 1979

Jason Stebbins, P.E.  
Project Manager

❖ 2535 17<sup>th</sup> STREET, DENVER, CO 80211 ❖ 303-783-4797 ❖ 303-830-9133 FAX ❖

PEG ENERGY  
7800 IH 10, SUITE 610  
SAN ANTONIO, TX 78230  
(956) 203-0669

PROJECT:  
6.10 KW-DC PV SYSTEM  
1602 WASHINGTON STREET,  
LAREDO, TX 78040

DESIGNED BY: A.E.Z.	SUBMITTAL DATE: 01-26-2018
DRAWN BY: A.E.Z.	REVISION DATE:
CHECKED BY:	REVISION DATE:

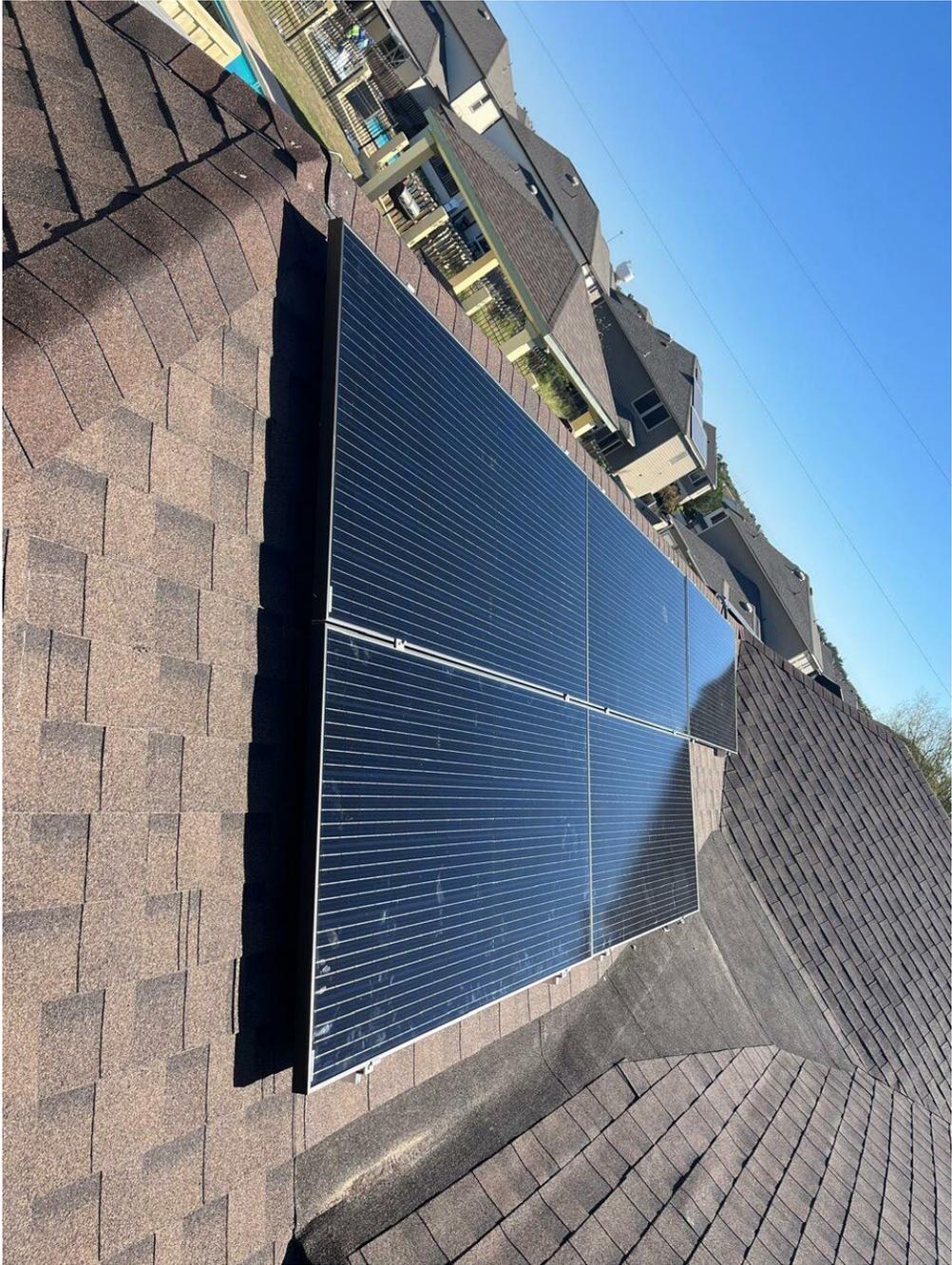
SHEET TITLE:  
COMPLIANCE  
LETTER

SHEET ID:  
E3.4

# EXAMPLES OF THE SOLAR PANEL PERGOLA TO BE INSTALLED



**EXAMPLE OF THE SOLAR PANELS TO BE INSTALLED**



# City of Laredo

## Historic District / Landmark Board

---

**Meeting Date:** 3/12/2026

**Action Item 6B.**

---

### **SUBJECT**

Public hearing and consideration of a motion to consider the exterior alteration of the side façade along Lincoln Street by adding a terracotta clay mural on part of Lot 4 and all of Lot 5, Block 40, Western Division, located at 502 Convent Avenue. This property is within Old Mercado Historic District.

HD-005-2026  
District VIII

### **BACKGROUND**

Initiated by: KRI Investments, Owner; Mona Dadlani, Representative

#### Previous Action:

On March 26, 1996, the Historic District Landmark Board approved the proposed scope of work, which included, 2 canopy signs measuring 40" x 18" and one painted wall sign not to exceed 60 square feet; the wall sign shall be centered over the business and the yellow board shall be reduced to comply with the 60 square foot signage area. Messages on signs shall state "1\$ Plus". (Historic Order No. 144).

On September 16, 1999, the Historic District Landmark Board approved the proposed scope of work, which included, a change to the canopy style per plans presented to the board. The change included:

1. Roof counter flashing to be painted to match the existing exterior wall color in order to minimize its visual impact.
  2. Freon connection on the south wall to be painted to match the existing wall color in order to minimize its visual impact.
- (Historic Order No. 318).

**Current Proposed Scope of Work:** The applicant proposes installation of a mural on the side elevation of the building. The mural includes applied terracotta clay pieces, which would create a three-dimensional surface and alter the existing wall texture. The current exterior finish of the wall is stucco.

**Building Type:** As per the Historic Urban Design Assessment Report (1996):

- "This is a single-story brick masonry commercial building. It has storefront windows that have tile on the base and on the columns. Today, these windows have an overhead security grill. This building has a recent metal canopy that covers up what could be clerestory windows beneath it. The frieze is a brick pattern punctuated by the air vents openings. The parapet is capped by a linear brick raised coursing."

Site: The property is an H-CBD (Historic Central Business District) zoning district.

Letters sent to the surrounding property owners: 38

For: 0

Against: 0

Granting or Denying an Application:

- As per the Laredo Land Development Code, Section 24.1.2.2(2), the Historic District Landmark Board shall utilize the Secretary of the Interior's Standards for Rehabilitation and Illustrated Guidelines for Rehabilitating Historic Buildings; and the City of Laredo, Texas, Historic Urban Design Guidelines

Secretary of the Interior's Standards:

1. A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces and spatial relationships.
2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces and spatial relationships that characterize a property will be avoided.
3. Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
4. Changes to a property that have acquired historic significance in their own right will be retained and preserved.
5. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.
6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.
7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.
8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.
9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.
10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

**STAFF RECOMMENDATION**

\*THE PURPOSE OF THIS APPLICATION REVIEW BEFORE THE HISTORIC DISTRICT/LANDMARK BOARD (HDLB) IS FOR HISTORIC COMPLIANCE ONLY. APPROVAL FROM THE HDLB DOES NOT GUARANTEE A CONSTRUCTION PERMIT, OR ANY OTHER TYPE OF PERMIT THAT MIGHT BE REQUIRED FOR THIS PROJECT.

Staff supports the proposed scope of work for the following reasons:

1. The mural does not require removal of historic architectural features, openings, or defining structural elements. The existing stucco will remain intact. The installation is limited to a side elevation and does not obscure primary façade detailing. As proposed, the historic character of the property will be retained and preserved. (Secretary of Interior Standards - Standard 2)

2. In addition, the mural shall be installed in a manner that, if removed in the future, the essential form and integrity of the historic property would remain intact. Removal must be undertaken with the gentlest means possible, avoiding abrasive methods, harsh chemical treatments, or mechanical procedures that would damage the stucco. Any future removal shall include careful patching and repair to restore the original stucco finish. (Secretary of Interior Standards - Standard 10)

Staff General Comments:

1. Any improvements which are approved by the Historic District Landmark Board shall also comply with all Building Code requirements and other regulations as provided in the Laredo Land Development Code.

2. Approval by the Historic District Landmark Board does not guarantee approval of a building permit or any other permit which may be required.

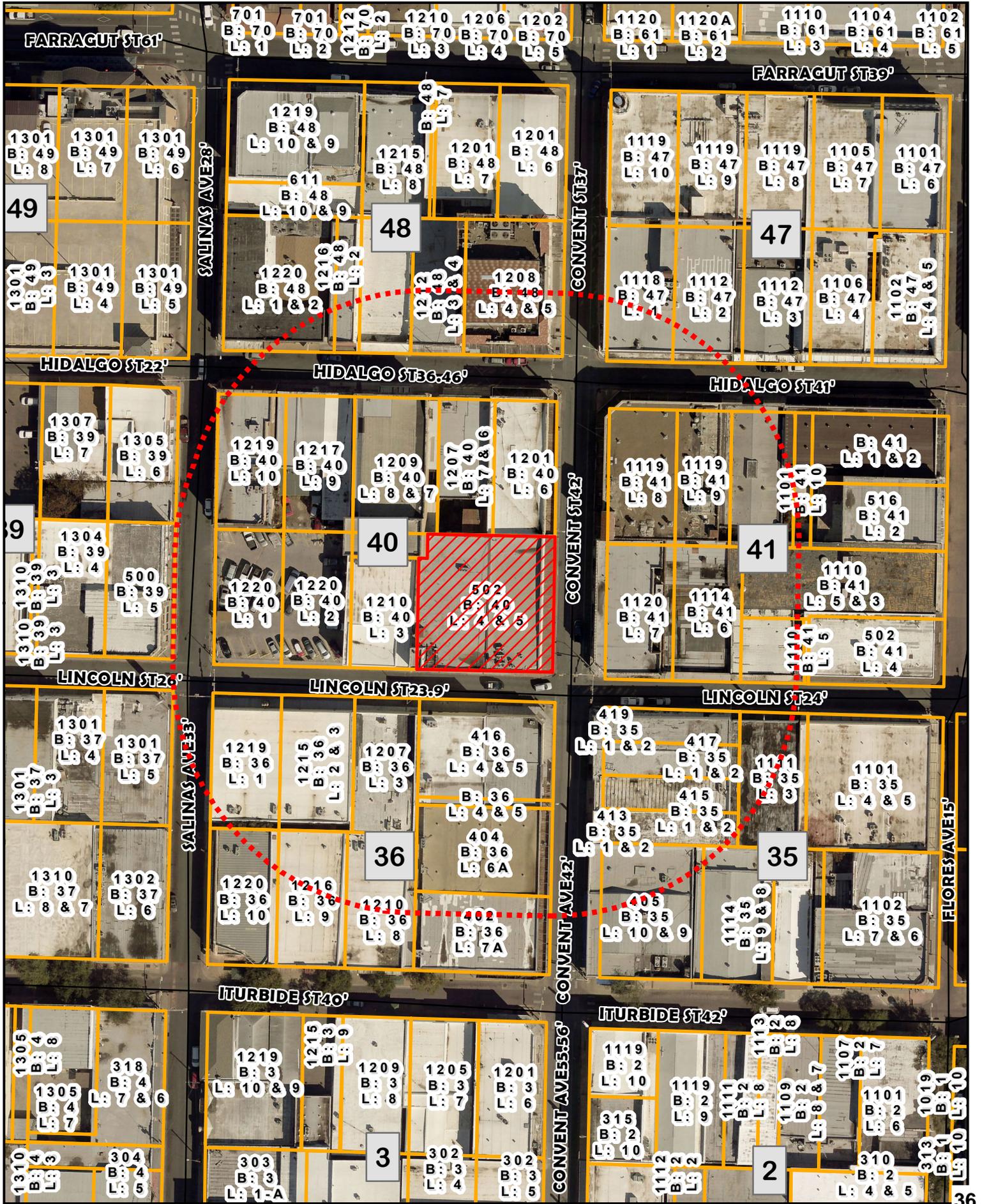
3. It is recommended that all existed improvements utilize the following resources as a guide:

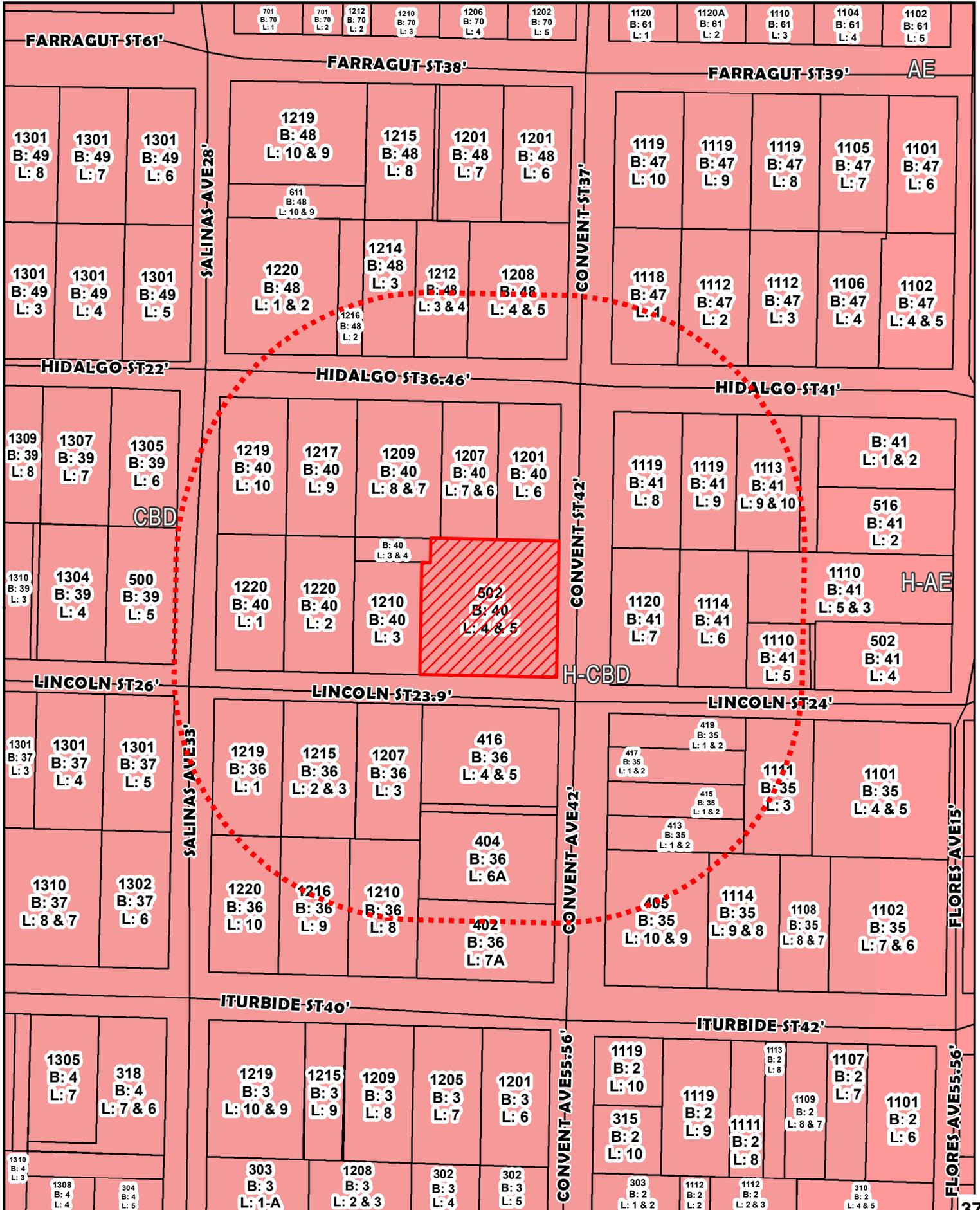
- The Secretary of the Interiors' Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings
- City of Laredo Historic Urban Design Guidelines
- City of Laredo Historic Preservation Plan

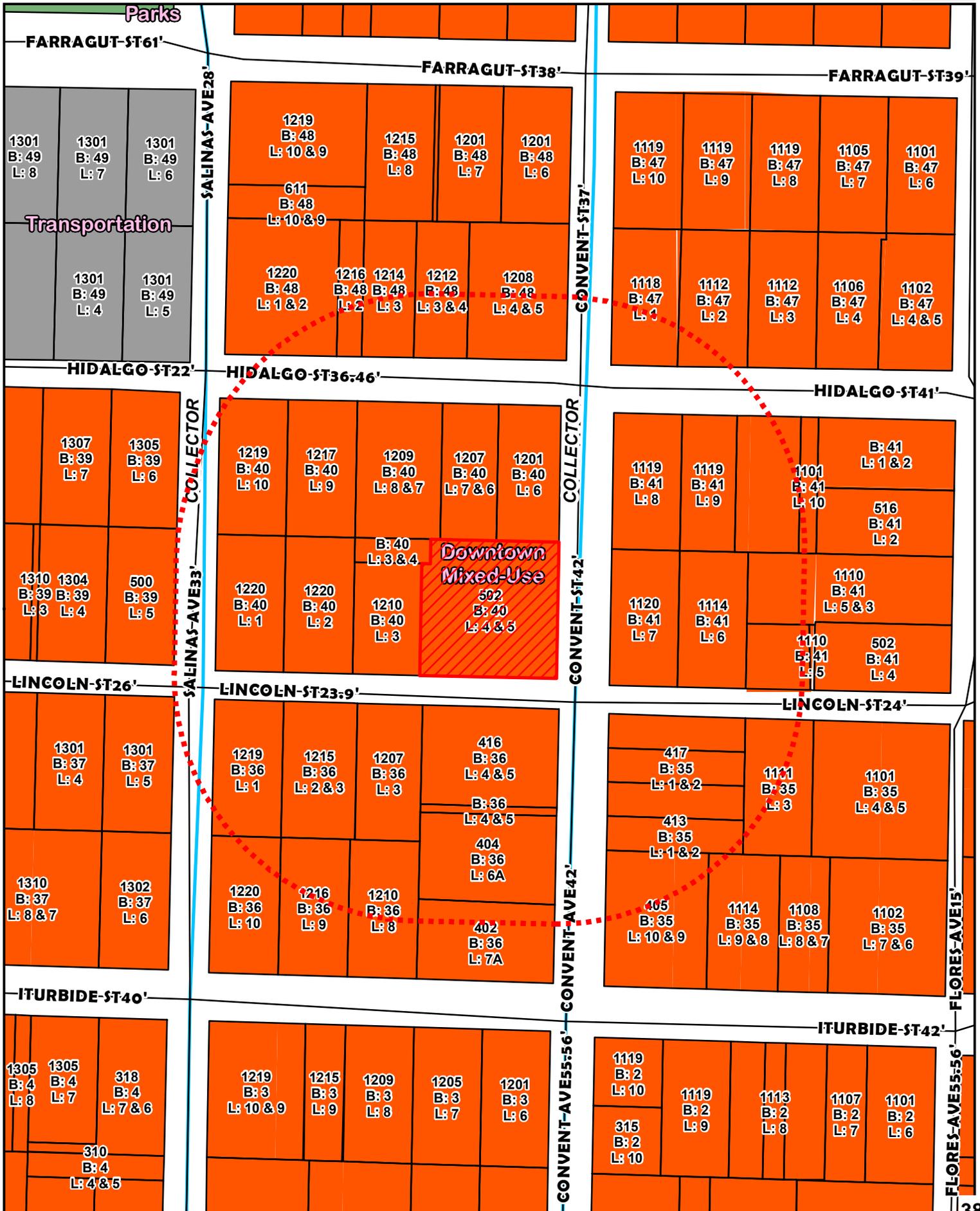
4. No other improvements, changes to the building, site or new construction on the property shall be permitted without prior review and approval by staff and/or Historic District Landmark Board, to meet compliance.

5. As per the Secretary of the Interior's Standards for Rehabilitation and Illustrated Guidelines for Rehabilitating Historic Buildings, all proposed scope of work should be physically and visually compatible to the original materials and features of the historical structure.

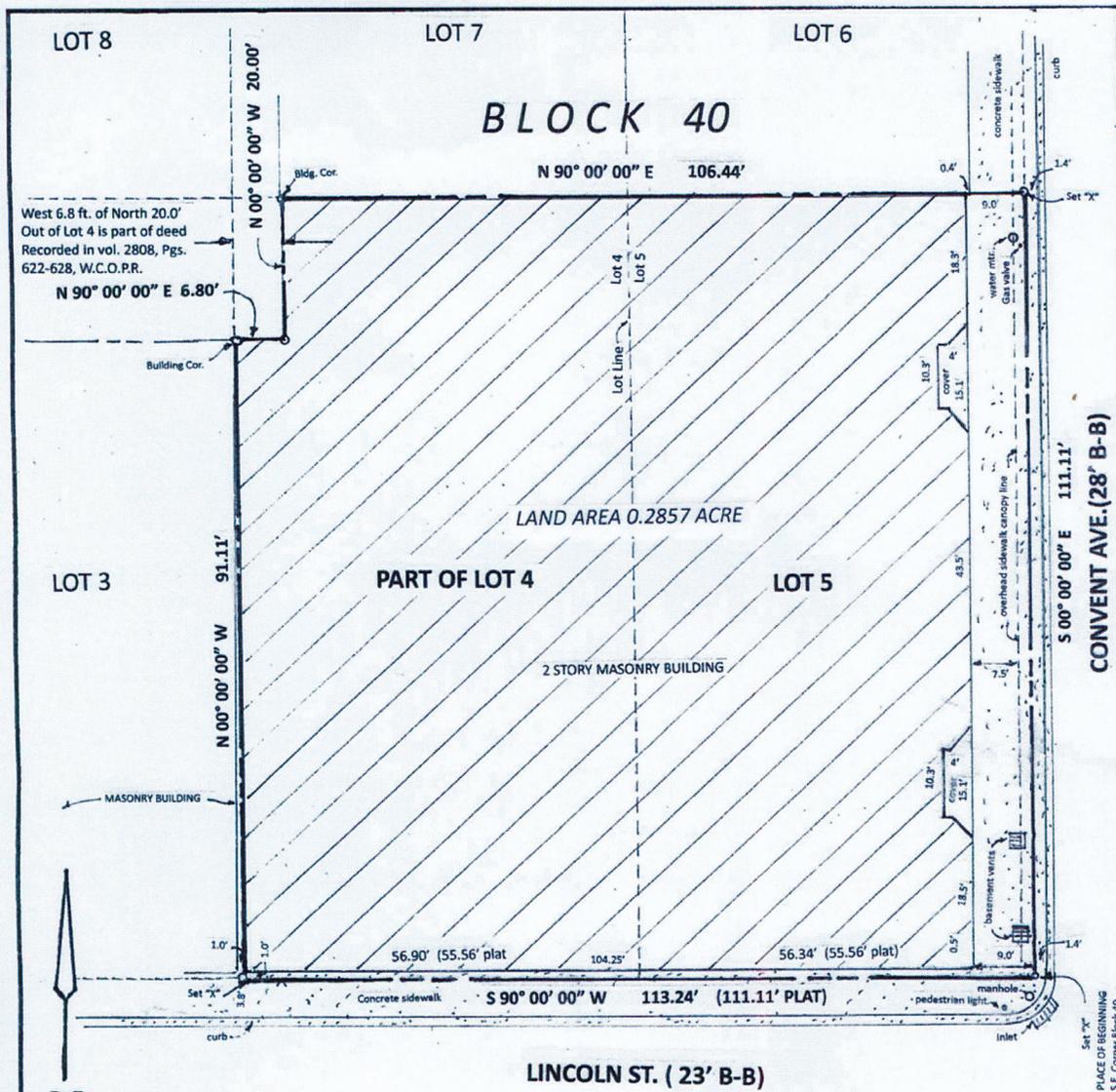
---











**LEGEND**

I.P.- Iron Pin      D.E.- Drainage easement  
 P.L.- Property Line      B.L.- Building Line  
 U.E.- Utility Easement

**NOTES:**

1) Utilities in easements are not shown. 2) This survey has been prepared with the reasonable expectation that it will be paid within 30 days of date below. 3) This survey is copyrighted material and may not be reproduced without the written permission of the undersigned surveyor, except as necessary for the transaction for which it is intended. 4) This survey shall consist entirely of this document with the original "wet" seal and blue ink signature. 5) Properties not described as complete lots or described by Metes & Bounds may need to be platted or replatted in order to obtain utility & building permits.

Subject to recorded restrictive covenants and/or easements as follows: Per Title Commitment      Dated :  
 5-15-25      GPF#      2590501

Vol. \_\_\_\_\_ Pg. \_\_\_\_\_ Records  
 Vol. \_\_\_\_\_ Pg. \_\_\_\_\_ Records  
 Vol. \_\_\_\_\_ Pg. \_\_\_\_\_ Records  
 Vol. \_\_\_\_\_ Pg. \_\_\_\_\_ Records

Bearing basis: Convent Ave. R.O.W. per subd. Plat N 00° 00' 00" W.

This survey was prepared exclusively for the following borrowers:

KRI INVESTMENT, LLC

**SURVEY OF**

PART OF LOT 4 AND ALL OF LOT 5, BLOCK 40, WESTERN DIVISION, CITY OF LAREDO, PER PLAT RECORDED IN VOLUME 7, PAGE 15, OF THE WEBB COUNTY, TEXAS, PLAT RECORDS. (METES AND BOUNDS ATTACHED)  
 ADDRESS: 502-506 CONVENT AVE.

**SURVEY NO.** 21956      **Scale:** 1" = 20'      This property  is  is not located within a flood hazard area and is within Zone   x   according to Flood Insurance Rate Map No. 48479C1195C, F.I.R.M. Date: APRIL 2, 2008

**SURVEYOR'S CERTIFICATION**

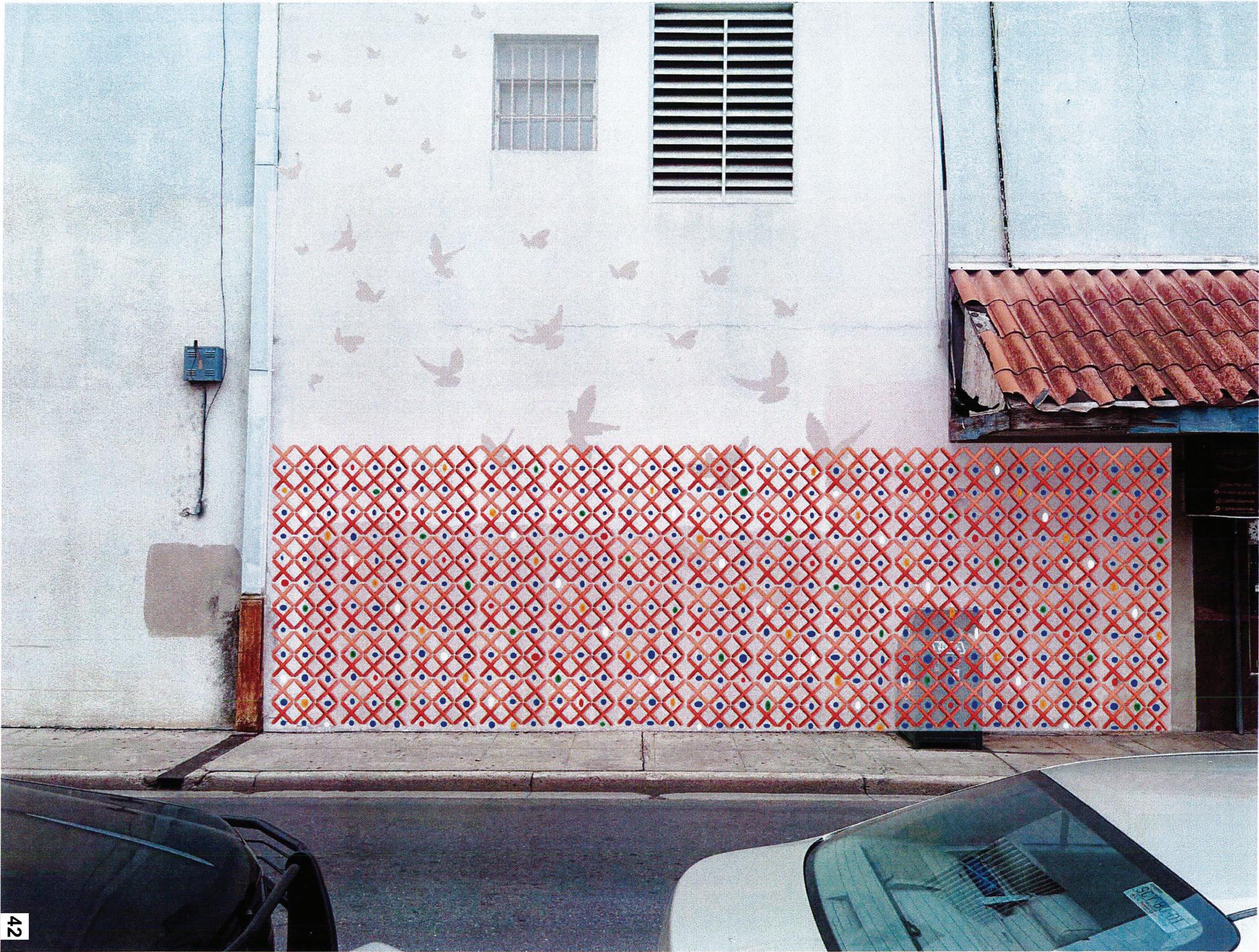
I hereby certify that this survey is true and correct and was prepared from an actual survey of the property made on the ground under my supervision, this   28   TH day of   MAY  , 2025.



Signed: J. Ricardo Sanchez  
 J. Ricardo Sanchez  
 R.P.L.S. # 4232

**SANCHEZ ENGINEERING, INC.**  
 P.O. BOX 2654  
 LAREDO, TEXAS 78044  
 (956) 723-5578  
 Texas Land Surveying Firm No. 10111000





Glazes > Underglazes > Browse by Color (Underglaze) > Greens (Underglaze) > Hunter Green (V-376)



### Hunter Green (V-376)

\$7.95 - \$30.75

Saturated color, dependability, and versatility make Amaco's Velvet Underglazes as popular for professionals as they are for children. Velvets fire true-to-color as a Cone 05/06 underglaze or fired to Cone 6. Some colors remain true as high as Cone 10.

Try two finish possibilities: When left unglazed these colors have the rich textural appearance of velvet, when covered with AMACO clear transparent matte or Clear Gloss they intensify in color. Can be easily applied to wet clay, greenware, or mature Cone 04 bisque (1971F / 1077C)

- Saturated Color
- Apply to unfired clay or bisque
- True to color
- Can be used with or without glaze- Food Safe with proper glaze.
- Cone 05 to 10
- Sprayable



Glazes > Underglazes > Browse by Color (Underglaze) > Blues (Underglaze) > Electric Blue (V-386)



### Electric Blue (V-386)

\$7.95 - \$30.75

Saturated color, dependability, and versatility make Amaco's Velvet Underglazes as popular for professionals as they are for children. Velvets fire true-to-color as a Cone 05/06 underglaze or fired to Cone 6. Some colors remain true as high as Cone 10.

Try two finish possibilities: When left unglazed these colors have the rich textural appearance of velvet, when covered with AMACO clear transparent matte or Clear Gloss they intensify in color. Can be easily applied to wet clay, greenware, or mature Cone 04 bisque (1971F / 1077C)

- Saturated Color
- Apply to unfired clay or bisque
- True to color
- Can be used with or without glaze- Food Safe with proper glaze.
- Cone 05 to 10
- Sprayable

Size

Glazes > Underglazes > Browse by Color (Underglaze) > Reds (Underglaze) > Bright Red (V-387)



### Bright Red (V-387)

\$11.15 - \$62.00

Saturated color, dependability, and versatility make Amaco's Velvet Underglazes as popular for professionals as they are for children. Velvets fire true-to-color as a Cone 05/06 underglaze or fired to Cone 6. Some colors remain true as high as Cone 10.

Try two finish possibilities: When left unglazed these colors have the rich textural appearance of velvet, when covered with AMACO clear transparent matte or Clear Gloss they intensify in color. Can be easily applied to wet clay, greenware, or mature Cone 04 bisque (1971F / 1077C)

- Saturated Color
- Apply to unfired clay or bisque
- True to color
- Can be used with or without glaze- Food Safe with proper glaze.
- Cone 05 to 10
- Sprayable



Glazes > Lusters (017-020) > Opaline Luster 4g



### Opaline Luster 4g

\$36.00

SKU: LC205

4 grams Opaline Luster.

Adds an opal finish when applied over matured glossy glazes.

Always work in a well ventilated area and wear a NIOSH approved respirator.

**Note: Ware decorated with metallic overglazes should not be used in microwave ovens**

Fire to Cone 018

Fire to Cone 018

Glazes > Lusters (017-020) > Gold Coast Luster 5g



### Gold Coast Luster 5g

\$130.00

SKU: LC201

5 grams Gold Luster.

Adds a genuine gold finish when applied over matured glossy glazes.

Always work in a well ventilated area and wear a NIOSH approved respirator.

**Note: Ware decorated with metallic overglazes should not be used in microwave ovens**

Fire to Cone 018

Quantity  
1 1 available

Add to Cart



▲04

SW 6015 overall wall color  
**Vaguely Mauve**

SW 6017  
**Intuitive**  
birds and butterflies

SW 6016  
**Chaise Mauve**  
birds and butterflies



**MATERIAL EXAMPLE OF THE TERRICOTTA CLAY PROPOSED TO BE INSTALLED  
ON THE MURAL**

