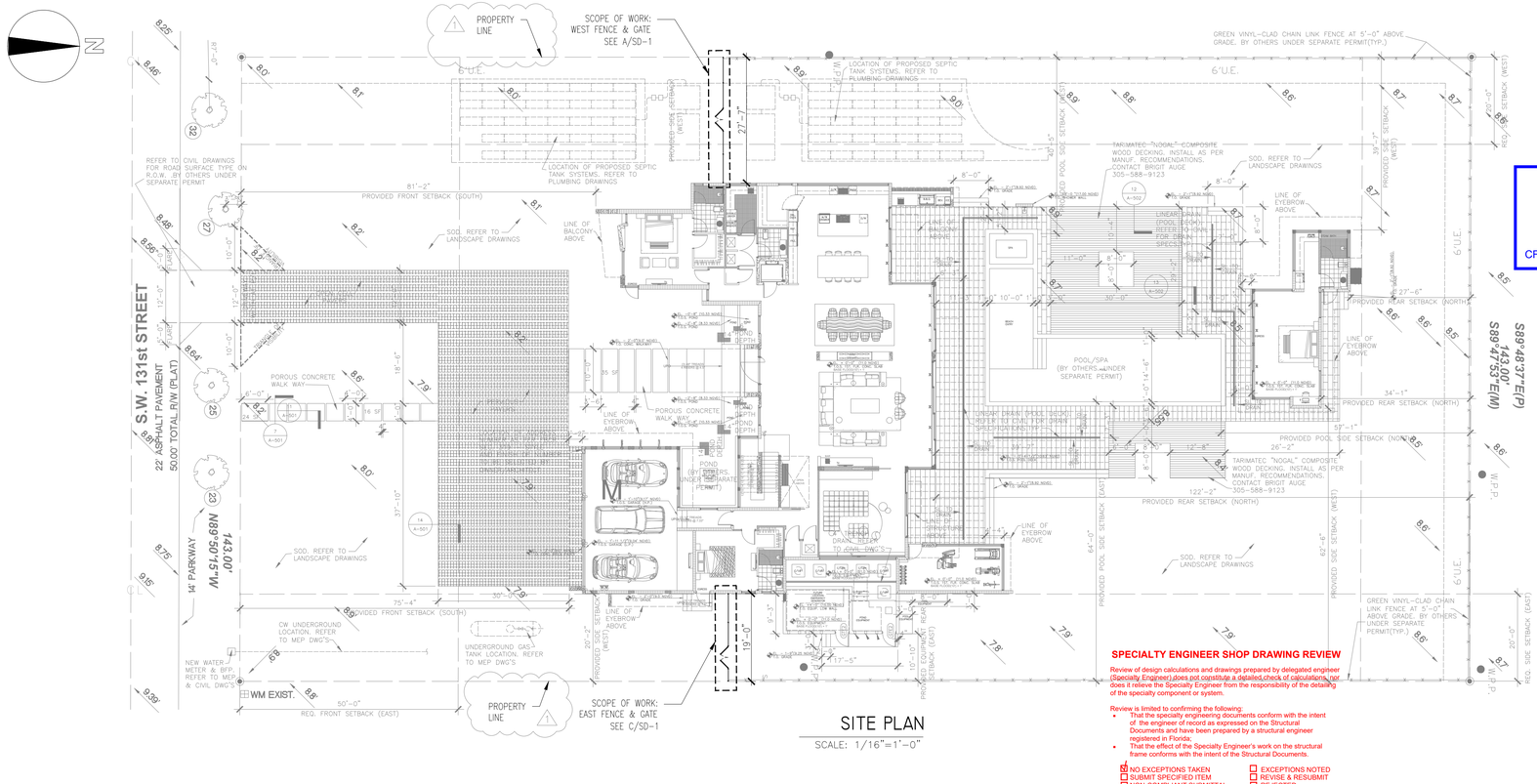
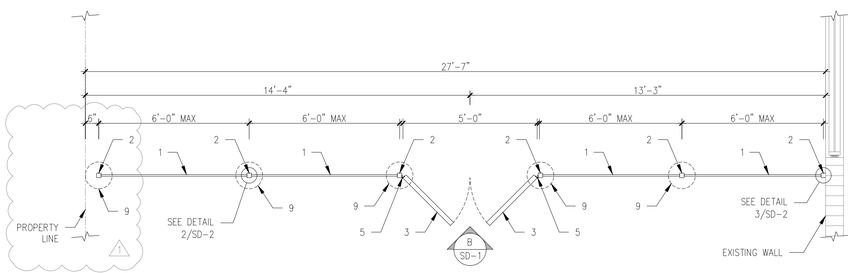


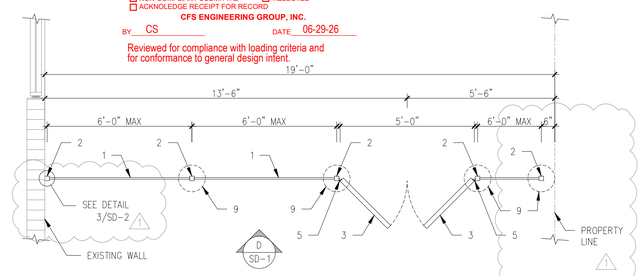
SITE PLAN

SCALE: 1/16"=1'-0"



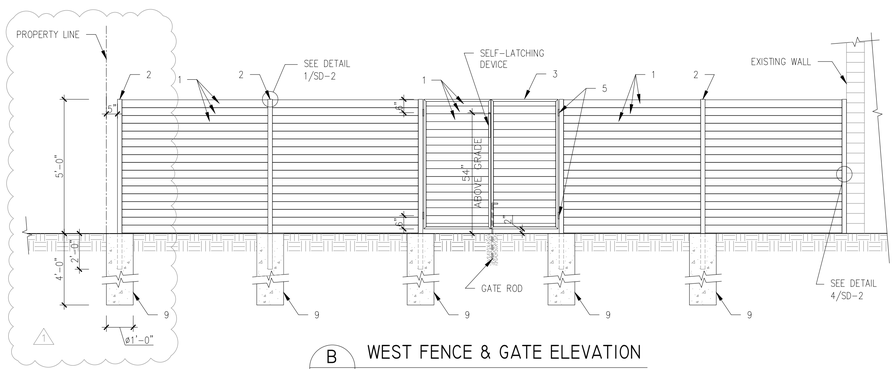
A SD-1 WEST FENCE & GATE PLAN VIEW

SCALE: 3/8"=1'-0"



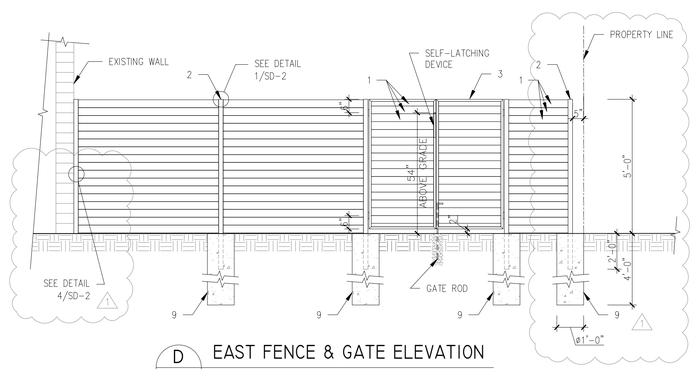
C SD-1 EAST FENCE & GATE PLAN VIEW

SCALE: 3/8"=1'-0"



B SD-1 WEST FENCE & GATE ELEVATION

SCALE: 3/8"=1'-0"



D SD-1 EAST FENCE & GATE ELEVATION

SCALE: 3/8"=1'-0"

SPECIALTY ENGINEER SHOP DRAWING REVIEW

Review of design calculations and drawings prepared by delegated engineer (Specialty Engineer) does not constitute a detailed check of calculations, nor does it relieve the Specialty Engineer from the responsibility of the detailing of the specialty component or system.

Review is limited to confirming the following:

- That the specialty engineering documents conform with the intent of the engineer of record as expressed on the Structural Documents and have been prepared by a structural engineer registered in Florida;
- That the effect of the Specialty Engineer's work on the structural frame conforms with the intent of the Structural Documents.

☒ NO EXCEPTIONS TAKEN ☐ EXCEPTIONS NOTED
☐ SUBMIT SPECIFIED ITEM ☐ REVISE & RESUBMIT
☐ NON-COMPLIANT SUBMITTAL ☐ REJECTED
☐ ACKNOWLEDGE RECEIPT FOR RECORD

CFS ENGINEERING GROUP, INC.

BY CS DATE 06-29-26

Reviewed for compliance with loading criteria and for conformance to general design intent.

RECEIVED
06/29/2026
CFS Engineering Group, Inc.

LEGEND:

1. 1" x 4" IPE WOOD SLATS.
2. ALUM. POST ST 2" x $\frac{1}{4}$", ALLOY 6061-T6.
3. ALUM. GATE FRAME RT 1" x 2"x $\frac{1}{8}$", ALLOY 6061-T6.
4. ALUM. CHANNEL C 1" x 1" x $\frac{1}{8}$", ALLOY 6061-T6.
5. SELF-CLOSING HINGES TO RESIST 250 LBS MIN.
6. PROVIDE ALUM. END CAP AT ALL EXPOSED ENDS OR TOPS, SIZE AND SHAPE TO BE ADAPTED TO EACH SPECIFIC MEMBER OR CONDITION.
7. #12-14 x 1" LONG. UNDERCUT FLAT HEAD SELF-DRILLING SCREW @12".
8. $\frac{3}{8}$" RED HEAD TAPCON @12" W/ 1" MIN. EMBEDMENT, 4" MIN. EDGE DISTANCE.
9. ø12" x 48" DEEP CONCRETE FOOTING, F'c=3000 PSI MIN. 1

NOTES:

- CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR FABRICATION AND INSTALLATION.
- 4'-0" HIGH SELF CLOSING ENTRY GATE SHALL SWING OUTWARD AWAY FROM POOL W/ SELF LATCHING DEVICE MIN. 54" A.F.F. 2

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSION AND CONDITIONS IN THE FIELD PRIOR TO START OF WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY IN THE DRAWINGS AND OBTAIN HIS APPROVAL BEFORE PROCEEDING WITH WORK.
2. UNLESS NOTED OTHERWISE (U.N.O) ON DRAWINGS OR THE SPECIFICATIONS, THESE NOTES SHALL APPLY TO THIS PROJECT.
3. IF ANY ERRORS OR MISSIONS APPEAR ON THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILURE TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
4. THIS DESIGN COMPLIES WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA BUILDING CODE & OTHER REFERENCES CODES & SPECIFICATION. ALL REFERENCED CODES AND SPECIFICATIONS SHALL BE THE LATEST EDITION AT TIME OF PERMIT. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
5. THIS WORK REQUIRES A BUILDING PERMIT. CONTRACTOR TO OBTAIN THE APPROPRIATE BUILDING PERMITS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS CONSTRUCTION, AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.
6. LOCATION AND SIZES OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL VERIFY ALL UTILITIES IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION OPERATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE ALL DAMAGES.
7. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN ON PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE SERVICES IS CONTRACTOR RESPONSIBILITY.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
9. THE CONTRACTOR SHALL MAKE REQUIRED ARRANGEMENTS, SECURE AND PAY FOR ALL BARRICADES, ENCLOSURES, AND FENCING AS NEEDED FOR AND DURING THE PROGRESS TO PROTECT ADJACENT PROPERTIES. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS EXPOSED OR OPEN AT THE END OF THE WORKING DAY WHEN THE CONTRACTOR IS NOT WORKING, UNLESS ANY TRENCH IS COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN TRAFFIC.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN PLANS, SECTIONS AND DETAILS OR THE APPLICABLE CODES OR REGULATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER DURING BIDDING OR BEFORE WORK BEGINS IN ORDER TO CLARIFY THE REQUIREMENTS AND TO EFFECT THE NECESSARY MODIFICATIONS, CHANGES AND/OR INSTRUCTIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL DISTURBED CONDITIONS AND PROPER DISPOSAL OF ANY MATERIAL & GARBAGE FROM THE SITE AFTER COMPLETION OF WORK. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)
13. DRAWINGS AND DIMENSIONS ARE BASED UPON DRAWINGS SUPPLIED BY THE CLIENT. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ERRORS OR MISINTERPRETATIONS OF THE SYSTEM DESIGNED BY THE ENGINEER BASED ON CLIENT CONFIRMED DESIGN AND DIMENSIONS. ADDITIONAL DRAFTING TIME EMPLOYED IN THE CHANGE OF THE DESIGN AFTER SIGNING AND SEALING OF DRAWINGS WILL RESULT IN ADDITIONAL COST.
14. DO NOT SUBSTITUTE MATERIALS, EQUIPMENTS OR METHODS OF CONSTRUCTION UNLESS SUCH SUBSTITUTIONS OR CHANGES HAVE BEEN APPROVED IN WRITING BY THE OWNER.
15. THE ENGINEER HAS GENERATED THESE SHOP DRAWINGS BASED ON A PROVIDED DESIGN THAT HAS BEEN DEVELOPED BY A LICENSED ARCHITECT OR A COMPETENT LICENSED DESIGN PROFESSIONAL WHO CONFIRMED COMPLIANCE WITH ALL APPLICABLE NATIONAL AND FLORIDA BUILDING CODES.
16. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 318) AND WITH " DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315). ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
17. ANCHORING CEMENT WITH A COMPRESSION STRENGTH OF 10 KSI AT THE END OF 7 DAYS.
18. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
19. DO NOT SCALE DRAWINGS, DIMENSIONS ALWAYS GOVERN.
20. DETAILS LABELED "TYPICAL (TYP.)" SHALL APPLY TO ALL SITUATIONS THAT ARE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. TYPICAL DETAILS SHALL APPLY WETHER OR NOT THEY ARE SPECIFICALLY KEYED AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.
21. THE QUANTITIES AND DIMENSION SHOWN ON DRAWINGS ARE BASED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSION TO BE SITE VERIFIED BY GENERAL CONTRACTOR/ SUBCONTRACTOR.
23. ENGINEER'S VISITS TO THE SITE DURING CONSTRUCTION SHALL BE SCHEDULED WITHIN 48 HOURS PRIOR TO INSPECTION.
24. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY THE ENGINEER IS PROHIBITED.

ALUMINUM NOTES:

1. ALL FASTENER, UNLESS DETAILED OTHERWISE, SHALL BE 316 STAINLESS STEEL. ALUMINUM BOLTS, WHERE SPECIFIED, SHALL BE 2024-T4 OR 6061-T6 ALLOY.
2. ALL WELDING SHALL BE CONFORM WITH AWS D1.2, LATEST STRUCTURAL WELDING CODE-ALUMINUM. WELD FILLER ALLOY 5356. CLEANING: SSPC-SP2 "HAND TOOL CLEANING".
3. WHERE THE CONTACT OF DISSIMILAR MATERIAL MAY CAUSE ELECTROLYSIS OR WHERE ALUMINUM WILL COME IN CONTACT WITH CONCRETE, MORTAR OR PLASTER, THE CONTACT SURFACE OF ALUMINUM SHALL BE COATED 1 COAT OF ZINC CROMATED PRIMER AND ONE HEAVY COAT OF ALUMINUM PIGMENTED ASPHALT PAINT OR ALKALI-RESISTANT COATINGS, SUCH AS HEAVY-BODIED BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER.
4. STRUCTURAL ALUMINUM SHALL BE DOMESTIC ALLOY 6061-T6, DESIGNED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATIONS FOR ALUMINUM STRUCTURES.

ALLOY	Fb	Fb(WELDED)	Fv	Fv(WELDED)
6061-T6(TUBES & SHAPES)	19.0 KSI	9.0 KSI	12.0 KSI	5.0 KSI
6061-T6(ROUND & OVAL)	24.0 KSI	10.5 KSI	12.0 KSI	5.0 KSI

5. ALUMINUM FRAME, EXTRUSIONS OR VENT EXTRUSIONS MUST MEET THE MINIMUM REQUIREMENTS U.N.O ON THE DRAWINGS.

TYPE	Fb	Fb(WELDED)	Fv	Fv(WELDED)
6063-T5(TUBES & SHAPES)	9.5 KSI	4.8 KSI	5.5 KSI	2.8 KSI
6063-T5(ROUND& OVAL)	11.5 KSI	5.5 KSI	5.5 KSI	2.8 KSI
6063-T6(TUBES & SHAPES)	15.0 KSI	4.8 KSI	8.5 KS	2.8 KSI
6063-T6(ROUND & OVAL)	18.0 KSI	5.5 KSI	8.5 KSI	2.8 KSI
6005-T5(TUBES & SHAPES)	19.0 KSI	8.0 KSI	12.0 KSI	4.5 KSI
6005-T5(ROUND & OVAL)	24.0 KSI	9.0 KSI	12.0 KSI	4.5 KSI

6. WHERE ALUMINUM MEMBERS ARE IN DIRECT CONTACT WITH SOIL, PROVIDE PROTECTIVE COATING AT BURIED PORTIONS CONSISTING OF EITHER:
(A) HIGH-BUILD EPOXY OR EPOXY MASTIC SUITABLE FOR DIRECT SOIL CONTACT (MINIMUM 16 MILS DFT), OR
(B) HEAVY-BODIED BITUMINOUS COATING SUITABLE FOR BELOW-GRADE SERVICE.
EXTEND PROTECTION MINIMUM 6 INCHES ABOVE FINISHED GRADE AND APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

EGV Engineering
12090 SW 116th St,
Miami, FL 33186
PE #92192

SEAL

Digitally signed by Erick Guillen
Location: Casa Robles Ground Floor Fence & Gate
Reason: This item has been digitally signed & sealed by Erick Guillen, PE on 07/28/2026.
Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.
Date: 2026.07.28 23:29:49-04'00'

ERICK GUILLEN LICENSE No. 92192 STATE OF FLORIDA PROFESSIONAL ENGINEER

ENGINEER SIGNATURE

REVISIONS:

1	REV 06-28-2026
2	REV 07-28-2026

SHEET NAME: PLAN VIEW & ELEVATIONS

PROJECT NAME: CASA ROBLES ALUMINUM FENCE & GATE

PROJECT ADDRESS: 6545 SW 131 STREET, PINECREST, FL 33156

PROJECT No.: 260210
DRAWN & DESIGN:
CHECKED:
ISSUE DATE: 06/25/2026
SHEET NAME: SD-1

LEGEND:

1. 1" x 4" IPE WOOD SLATS.
2. ALUM. POST ST 2" x $\frac{1}{4}$", ALLOY 6061-T6.
3. ALUM. GATE FRAME RT 1" x 2"x $\frac{1}{8}$", ALLOY 6061-T6.
4. ALUM. CHANNEL C 1" x 1" x $\frac{1}{8}$", ALLOY 6061-T6.
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8. ø$\frac{1}{8}$" RED HEAD TAPCON @12" W/ 1" MIN. EMBEDMENT, 4" MIN. EDGE DISTANCE.
9. ø12" x 48" DEEP CONCRETE FOOTING, F'c=3000 PSI MIN. 1

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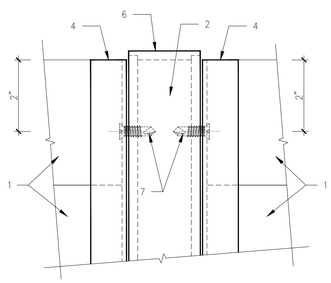
☒ NO EXCEPTIONS TAKEN
☐ SUBMIT SPECIFIED ITEM
☐ NON-COMPLIANT SUBMITTAL
☐ ACKNOLEDGE RECEIPT FOR RECORD
☐ EXCEPTIONS NOTED
☐ REVISE & RESUBMIT
☐ REJECTED

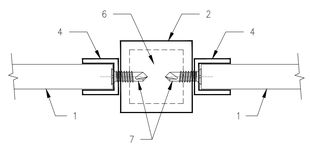
CFS ENGINEERING GROUP, INC.

BY CS DATE 06-29-26

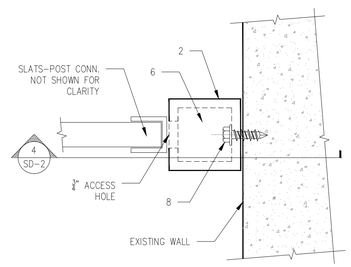
Reviewed for compliance with loading criteria and for conformance to general design intent.



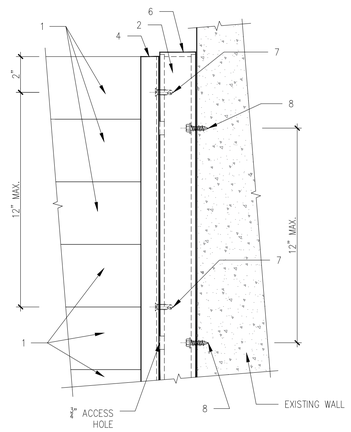
1 SD-2 SLATS-POST CONN.
SCALE: 6"=1'-0"



2 SD-2 SLATS-POST CONN.
SCALE: 6"=1'-0"



3 SD-2 POST-WALL CONN.
SCALE: 6"=1'-0"



4 SD-2 POST-WALL CONN.
SCALE: 3"=1'-0"

EGV Engineering
12090 SW 116th St,
Miami, FL 33186
PE #92192

SEAL

Digitally signed by Erick Guillen
Location: Casa Robles Ground Floor Fence & Gate
Reason: This item has been digitally signed & sealed by Erick Guillen, PE on 07/28/2026.
Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.
Date: 2026.07.28 23:30:02-04'00'

ERICK GUILLEN
LICENSE
No. 92192
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ENGINEER SIGNATURE

REVISIONS:

1	REV 06-28-2026
2	REV 07-28-2026

SHEET NAME: DETAILS

PROJECT NAME: CASA ROBLES ALUMINUM FENCE & GATE

PROJECT ADDRESS: 6545 SW 131 STREET, PINECREST, FL 33156

PROJECT No.: 260210
DRAWN & DESIGN:
CHECKED:
ISSUE DATE: 06/25/2026
SHEET NAME: SD-2