ALPINE
ENCLOSURE SYSTEMS

CAD DETAIL SET
AES-CIT-CAD-01 · Rev C · 2026-10

Alpine Citadel typical CAD details

Typical plans, elevations, gates and foundation details for coordinating Alpine Citadel with project drawings. Seven details, each issued as DWG and DXF. Typical details. Project layouts and foundations engineered per site.

01 INDEX

NO.	DETAIL	SCALE (11 × 17)	FILES
1	**Single enclosure plan** TE-S12F, nominal 12 × 16 ft, one 12 ft clear gate	3/8" = 1'-0"	AES-CIT-CAD-01-D1-single-plan.dwg AES-CIT-CAD-01-D1-single-plan.dxf
2	**Double enclosure plan** TE-D24C, nominal 24 × 12 ft, two 12 ft clear gates	1/4" = 1'-0"	AES-CIT-CAD-01-D2-double-plan.dwg AES-CIT-CAD-01-D2-double-plan.dxf
3	**Typical bay elevation** 96 in max. bay at 8 ft; section A: slat captive in channel	1/2" = 1'-0"; A 3" = 1'-0"	AES-CIT-CAD-01-D3-typical-bay-elevation.dwg AES-CIT-CAD-01-D3-typical-bay-elevation.dxf
4	**Gate elevation** 12 ft clear, double leaf, swing out, hardware	1/2" = 1'-0"	AES-CIT-CAD-01-D4-gate-elevation-12ft-clear.dwg AES-CIT-CAD-01-D4-gate-elevation-12ft-clear.dxf
5	**Base plates and anchor pattern** Line, corner and gate plates; ¾ in anchor pattern; anchorage section	3" = 1'-0"; 5D 1½" = 1'-0"	AES-CIT-CAD-01-D5-base-plates.dwg AES-CIT-CAD-01-D5-base-plates.dxf
6	**Embedded post typical** Custom option; typical — project engineered	1" = 1'-0"	AES-CIT-CAD-01-D6-embedded-post-typical.dwg AES-CIT-CAD-01-D6-embedded-post-typical.dxf
7	**Slab and thickened edge at posts** Line/corner posts, gate posts, gate thickened zone	1" = 1'-0"	AES-CIT-CAD-01-D7-slab-thickened-edge.dwg AES-CIT-CAD-01-D7-slab-thickened-edge.dxf

02 LAYERS

A-WALL	Slat walls, channels, slab and concrete outlines
A-POST	Posts, base plates, sleeves, anchors
A-GATE	Gate leaves, swing arcs, gate hardware
A-DIMS	Dimensions
A-TEXT	Notes, labels, leaders, view titles
A-TITLE	Sheet border and title block

03 USE

- Units: inches ($INSUNITS = inches); millimetres in parentheses where useful.
- Geometry is full size in model space. Freeze A-TITLE to insert a detail into your own sheets.
- Example configurations: see the example configuration sheets AES-CIT-SS-02 and -03.
- Project layouts, bay schedules, anchors and foundations are engineered per site; request a project package.

Alpine Enclosure Systems is a division of Alpine International Trading Co. Alpine Citadel is engineered per project; these details show the typical configuration. Each project is engineered to ASCE 7-22 for its own wind speed, exposure category and risk category; member sizes, base plates, anchors and foundations are confirmed by project engineering. Do not use for construction without a project-specific layout and sealed calculations. Specifications subject to change. alpineenclosures.com · © 2026 Alpine International Trading Co.

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ALPINE ENCLOSURE SYSTEMS — Alpine Citadel

Structural steel screen walls and enclosures

TYPICAL DETAIL — NOT FOR CONSTRUCTION

PROJECT ENGINEERING GOVERNS · PUBLIC CAD SET

NOTES

1. Index of details, layers and files for this set.
2. Each detail is issued as DWG and DXF (AutoCAD R2000), model space in inches, drawn full size; the title block is on layer A-TITLE.
3. Plot at the scale shown on each sheet on 11 × 17 paper.

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4 GATE ELEVATION, 12 FT CLEAR
5 BASE PLATES AND ANCHOR PATTERN
6 EMBEDDED POST TYPICAL
7 SLAB AND THICKENED EDGE AT POSTS

GENERAL NOTE

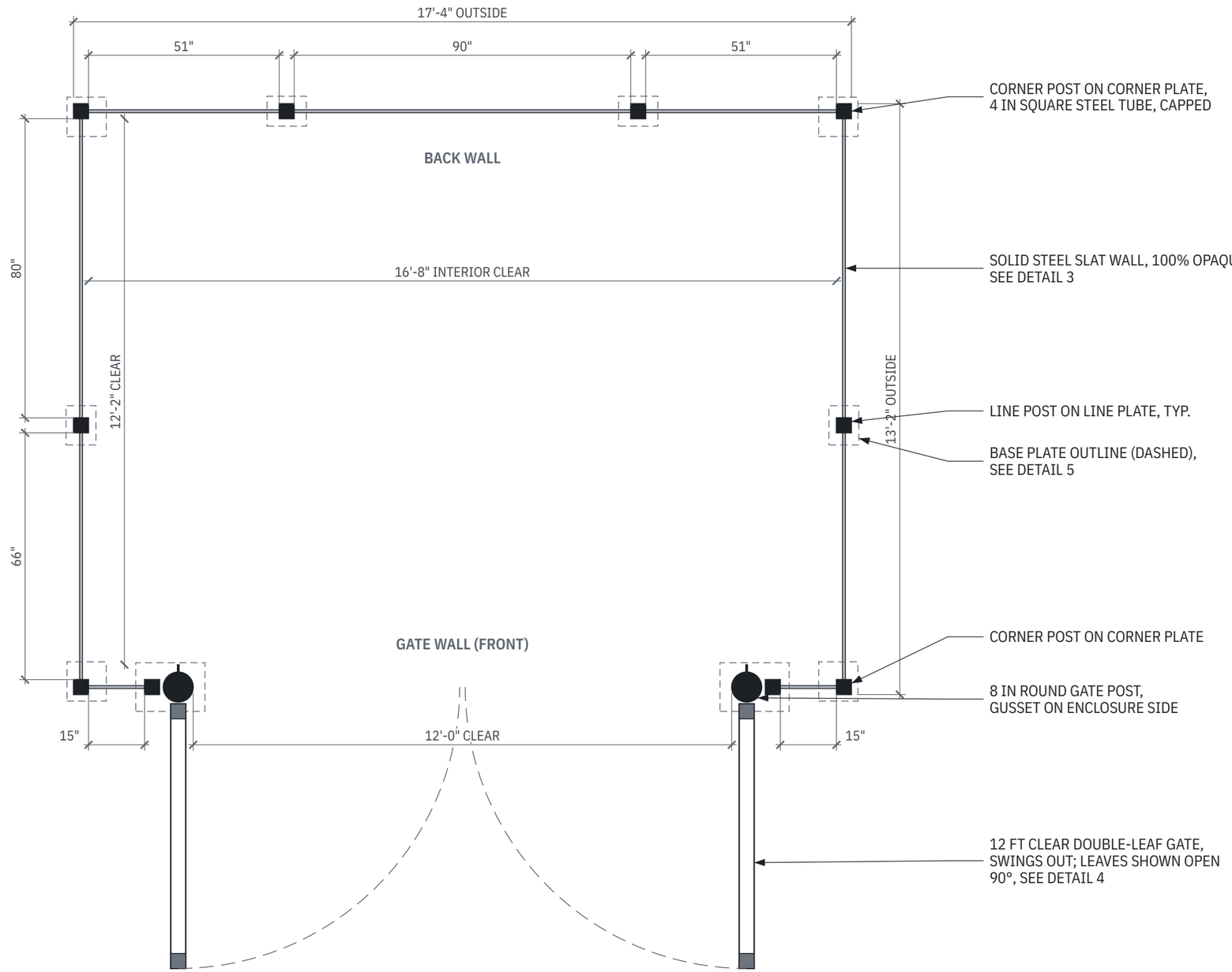
Typical details. Project layouts and foundations engineered per site.

DETAIL
COVER AND INDEX

DOC NO. AES-CIT-CAD-01	DETAIL —
REVISION C	DATE 2026-10
SCALE (11 × 17) NONE	
UNITS INCHES (MM)	SHEET 1 OF 8

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1 SINGLE ENCLOSURE PLAN

3/8" = 1'-0" · TE-S12F · 17'-4" × 13'-2" OUTSIDE · 8 FT

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TYPICAL DETAIL — NOT FOR CONSTRUCTION

PROJECT ENGINEERING GOVERNS · PUBLIC CAD SET

NOTES

1. Example single enclosure TE-S12F, nominal 12 × 16 ft, 8 ft; 6 ft and 7 ft use the same plan. Any size is laid out per project.
2. Bays are clear widths between post faces, in inches. Outside footprint dimensions are nominal, ±1 in.
3. Interior clear 16'-8" × 12'-2"; depth is measured from the back posts to the gate-post line.
4. 9 bays; 10 square posts + 2 round gate posts; 10 base plates; 48 anchors ¾ in.
5. Gate: 12 ft clear between 8 in round gate posts, two equal leaves, swing out, hold-open cane bolts.
6. Base plates, anchors and slab: details 5 and 7. Anchor type engineered per project.

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GENERAL NOTE

Typical details. Project layouts and foundations engineered per site.

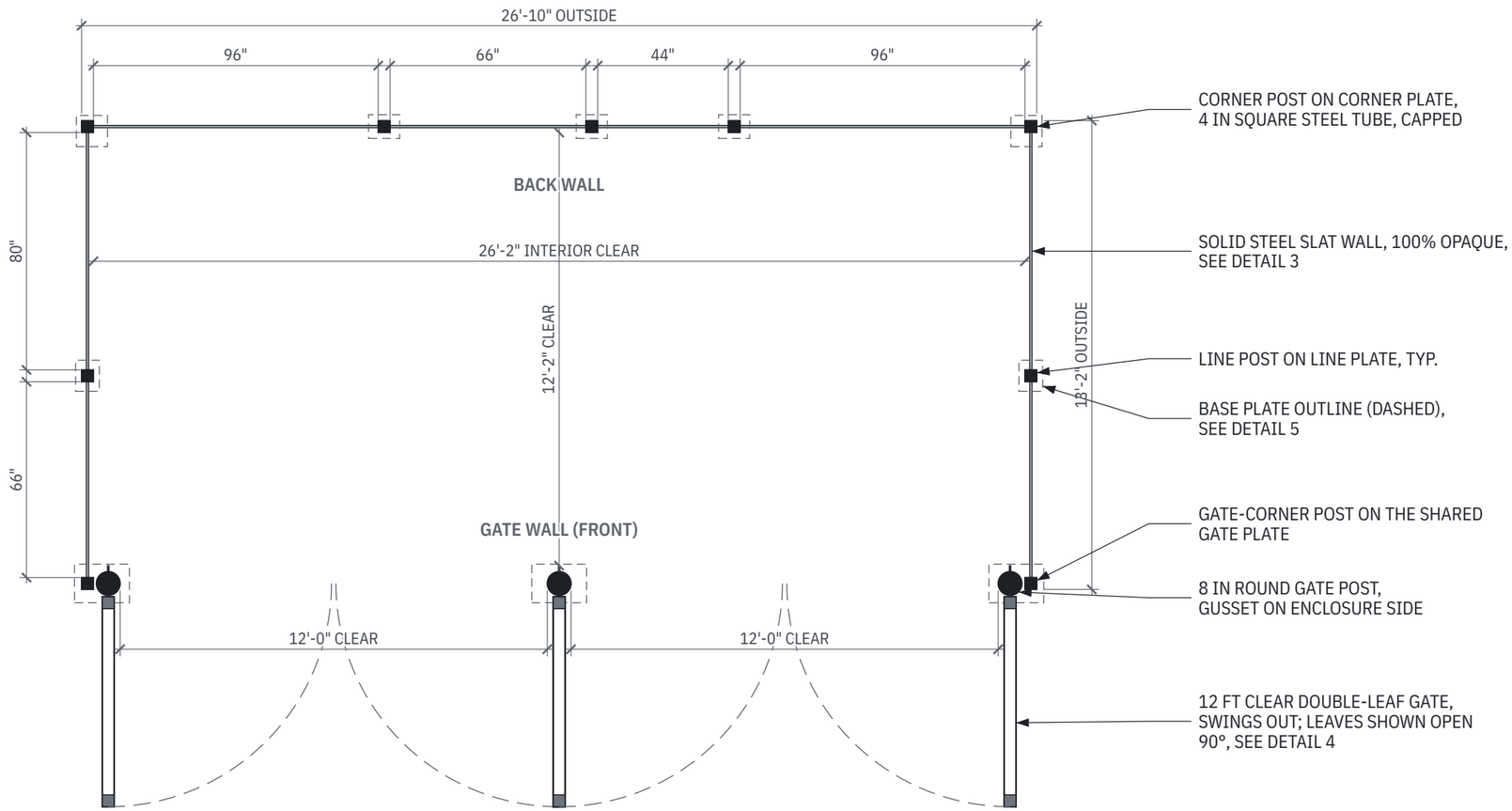
DETAIL

SINGLE ENCLOSURE PLAN

DOC NO. AES-CIT-CAD-01	DETAIL 1
REVISION C	DATE 2026-10
SCALE (11 × 17) 3/8" = 1'-0"	
UNITS INCHES (MM)	SHEET 2 OF 8

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2 DOUBLE ENCLOSURE PLAN

1/4" = 1'-0" · TE-D24C · 26'-10" × 13'-2" OUTSIDE · 8 FT

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TYPICAL DETAIL — NOT FOR CONSTRUCTION

PROJECT ENGINEERING GOVERNS · PUBLIC CAD SET

NOTES

1. Example double enclosure TE-D24C, nominal 24 × 12 ft, 8 ft; 6 ft and 7 ft use the same plan. Any size is laid out per project.
2. Bays are clear widths between post faces, in inches. Outside footprint dimensions are nominal, ±1 in.
3. Interior clear 26'-2" × 12'-2"; depth is measured from the back posts to the gate-post line.
4. 8 bays; 9 square posts + 3 round gate posts; 10 base plates; 52 anchors ¾ in.
5. Gate: 12 ft clear between 8 in round gate posts, two equal leaves, swing out, hold-open cane bolts. Two gates share the center post.
6. Base plates, anchors and slab: details 5 and 7. Anchor type engineered per project.

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GENERAL NOTE

Typical details. Project layouts and foundations engineered per site.

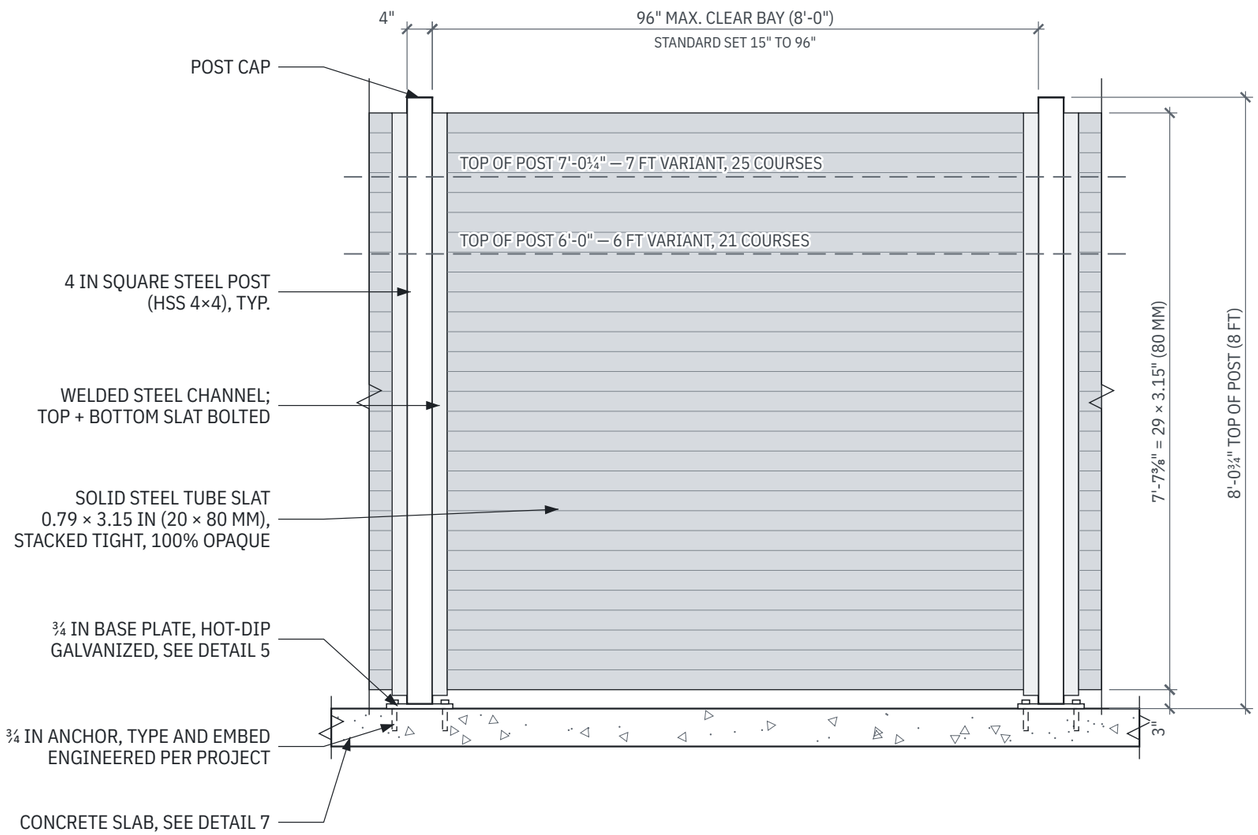
DETAIL

DOUBLE ENCLOSURE PLAN

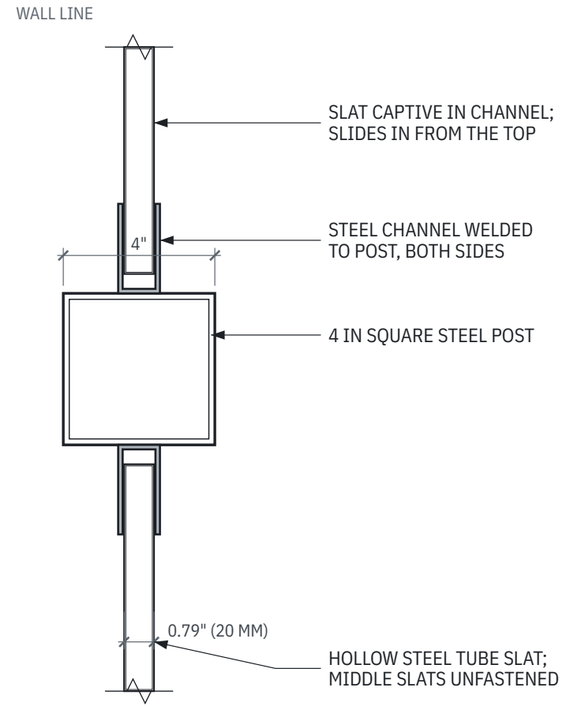
DOC NO. AES-CIT-CAD-01	DETAIL 2
REVISION C	DATE 2026-10
SCALE (11 × 17) 1/4" = 1'-0"	
UNITS INCHES (MM)	SHEET 3 OF 8

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3 TYPICAL BAY ELEVATION
1/2" = 1'-0" · 8 FT SHOWN



A SECTION A — SLAT AT POST
3" = 1'-0" · PLAN SECTION

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NOTES

1. Bays are clear widths between post faces: standard set 15 in to 96 in; 96 in bay shown. Bay widths are confirmed by project engineering.
2. Captive slats slide into welded steel channels from the top and stack tight. Middle slats are unfastened; only the top and bottom slat of each bay are bolted through the channels.
3. Bottom slat 3 in above the slab at every height. Slat courses: 29 (8 ft), 25 (7 ft), 21 (6 ft); plan, plates and anchors are the same.
4. Heights are measured from the top of the slab.
5. Custom slat spacing (airflow or visibility) and perforated metal panels available, engineered per project.
6. Finish: galvanized steel, powder coated to Qualicoat standards, superdurable polyester with UV protection; any RAL color.

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GENERAL NOTE

Typical details. Project layouts and foundations engineered per site.

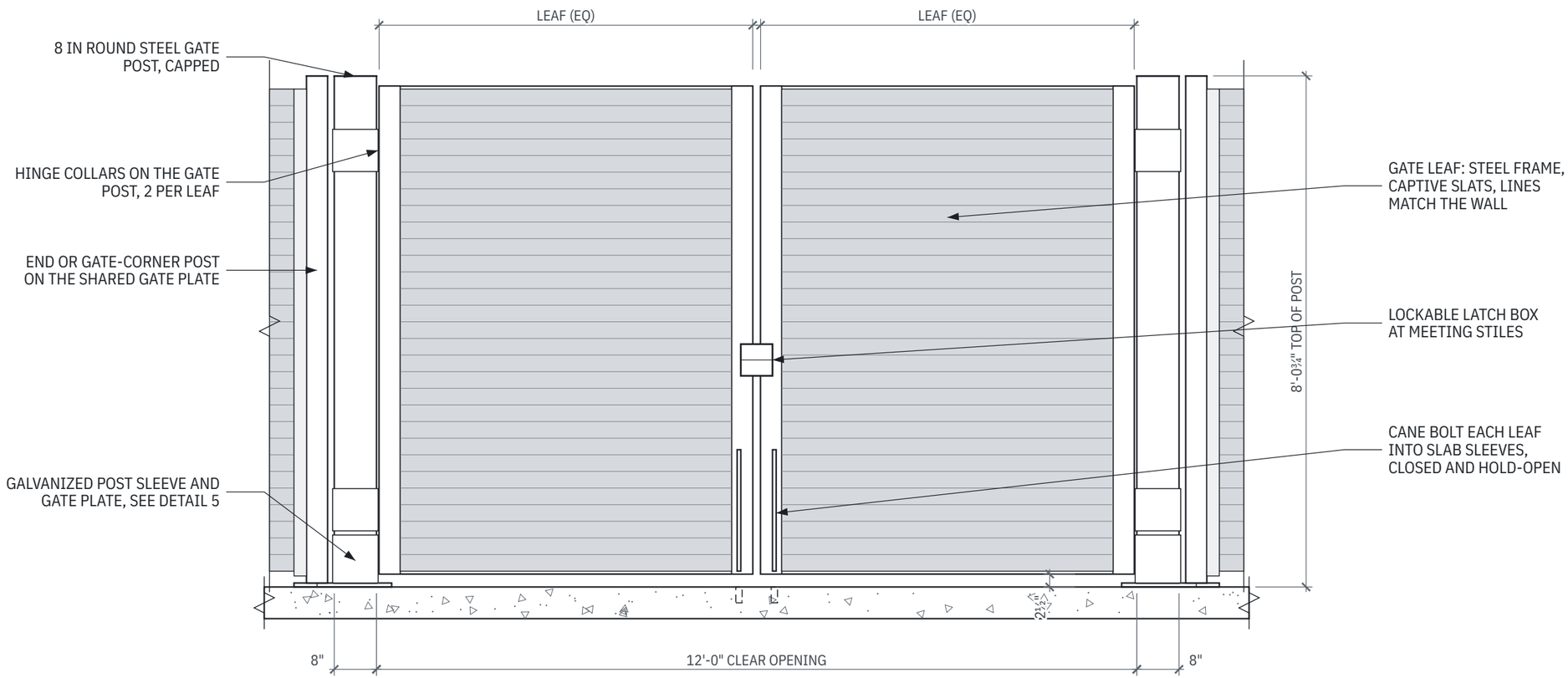
DETAIL

TYPICAL BAY ELEVATION

DOC NO. AES-CIT-CAD-01	DETAIL 3
REVISION C	DATE 2026-10
SCALE (11 × 17) 1/2" = 1'-0"; SECTION A 3" = 1'-0"	
UNITS INCHES (MM)	SHEET 4 OF 8

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4 GATE ELEVATION — 12 FT CLEAR, DOUBLE LEAF

1/2" = 1'-0" · 8 FT SHOWN, VIEWED FROM OUTSIDE

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TYPICAL DETAIL — NOT FOR CONSTRUCTION

PROJECT ENGINEERING GOVERNS · PUBLIC CAD SET

NOTES

1. Clear opening 12'-0" between 8 in round steel gate posts; two equal leaves, swing out.
2. Each round gate post shares a gate plate with the adjacent square post (end or gate-corner post); 8 anchors per gate plate.
3. Hardware: lockable latch box, cane bolts with slab sleeves, hold-open cane bolts. Every gate is function-tested before shipping.
4. Double enclosure: two gates share an 8 in round center post.
5. Standard gates: 12 ft or 16 ft clear, double leaf. Custom: 20 ft clear, 6 ft single leaf, corner-hinged and multiple gates, pedestrian gates, engineered per project.
6. 7 ft and 6 ft heights: posts and leaves shortened; slat lines match the wall.

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GENERAL NOTE

Typical details. Project layouts and foundations engineered per site.

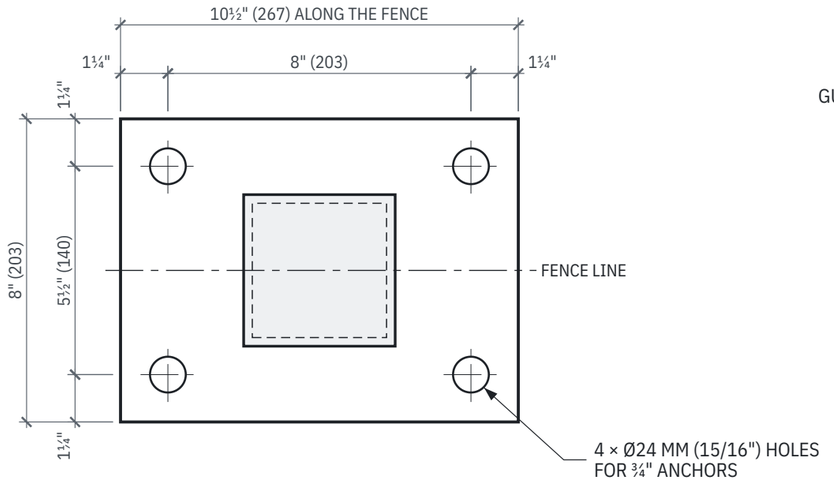
DETAIL

GATE ELEVATION 12 FT CLEAR

DOC NO. AES-CIT-CAD-01	DETAIL 4
REVISION C	DATE 2026-10
SCALE (11 × 17) 1/2" = 1'-0"	
UNITS INCHES (MM)	SHEET 5 OF 8

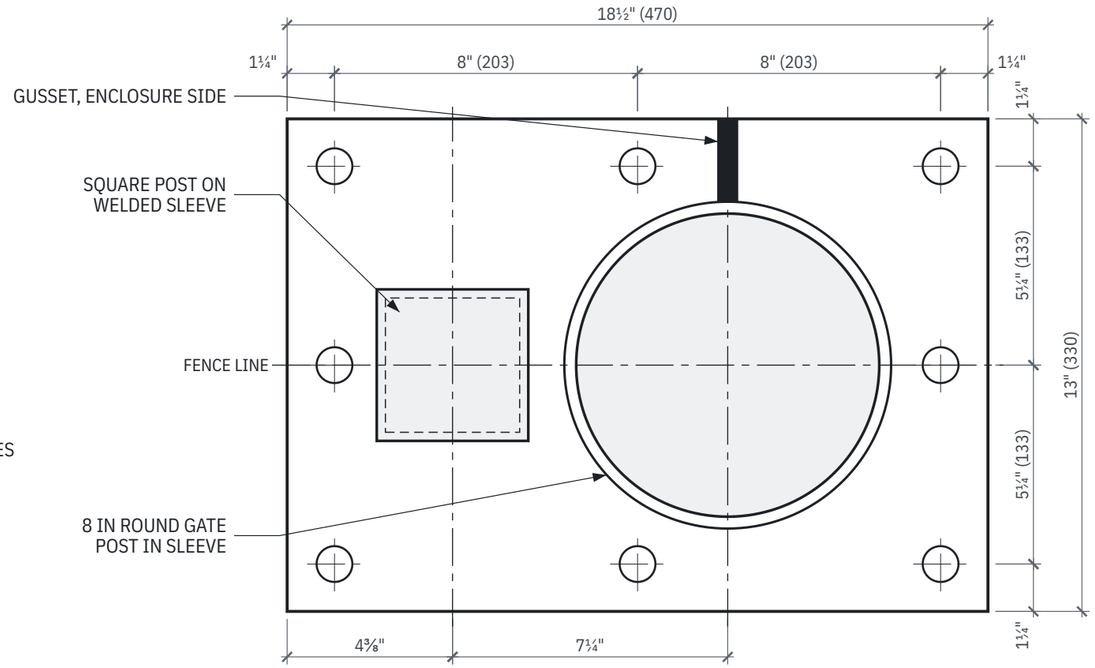
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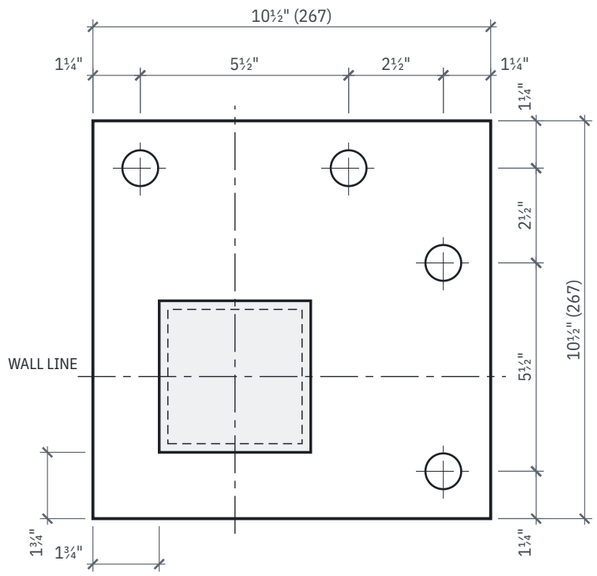
5A LINE POST PLATE

3" = 1'-0" · 10½ × 8 × ¾ IN



5C GATE POST PLATE (SHARED)

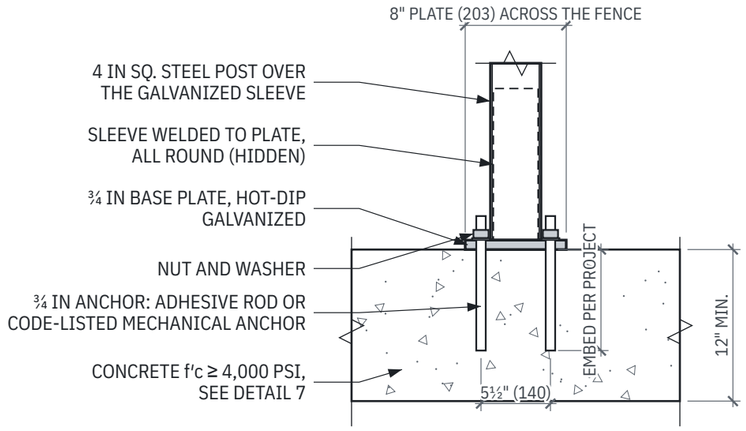
3" = 1'-0" · 18½ × 13 × ¾ IN · GUSSET ON ENCLOSURE SIDE



OUTSIDE CORNER AT LOWER LEFT; WALLS RUN UP AND RIGHT

5B CORNER POST PLATE

3" = 1'-0" · 10½ × 10½ × ¾ IN



5D TYPICAL ANCHORAGE — SECTION

1" = 1'-0" · ACROSS THE FENCE AT A LINE PLATE

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NOTES

1. Plates: ¾ in steel, hot-dip galvanized with the welded post sleeve. Square posts slide over the sleeve; gate posts are welded in a sleeve through the plate.
2. Holes Ø24 mm (15/16 in) for ¾ in anchors: 4 per line and corner plate, 8 per gate plate (3-2-3 pattern, center omitted).
3. Anchor type, embedment and edge distances engineered per project: adhesive threaded rod or code-listed mechanical anchor.
4. Line plate: the 10½ in side runs along the fence; the 8 in anchor spread is parallel to the fence and the 5½ in pair is across it.
5. Corner plate: anchor pairs straddle each wall line; post faces 1¾ in in from the two outside edges.
6. Gate plate carries the round gate post and the adjacent square post; gusset on the enclosure side; leaves swing out.
7. Dimensions in inches; millimetres in parentheses.

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GENERAL NOTE

Typical details. Project layouts and foundations engineered per site.

DETAIL

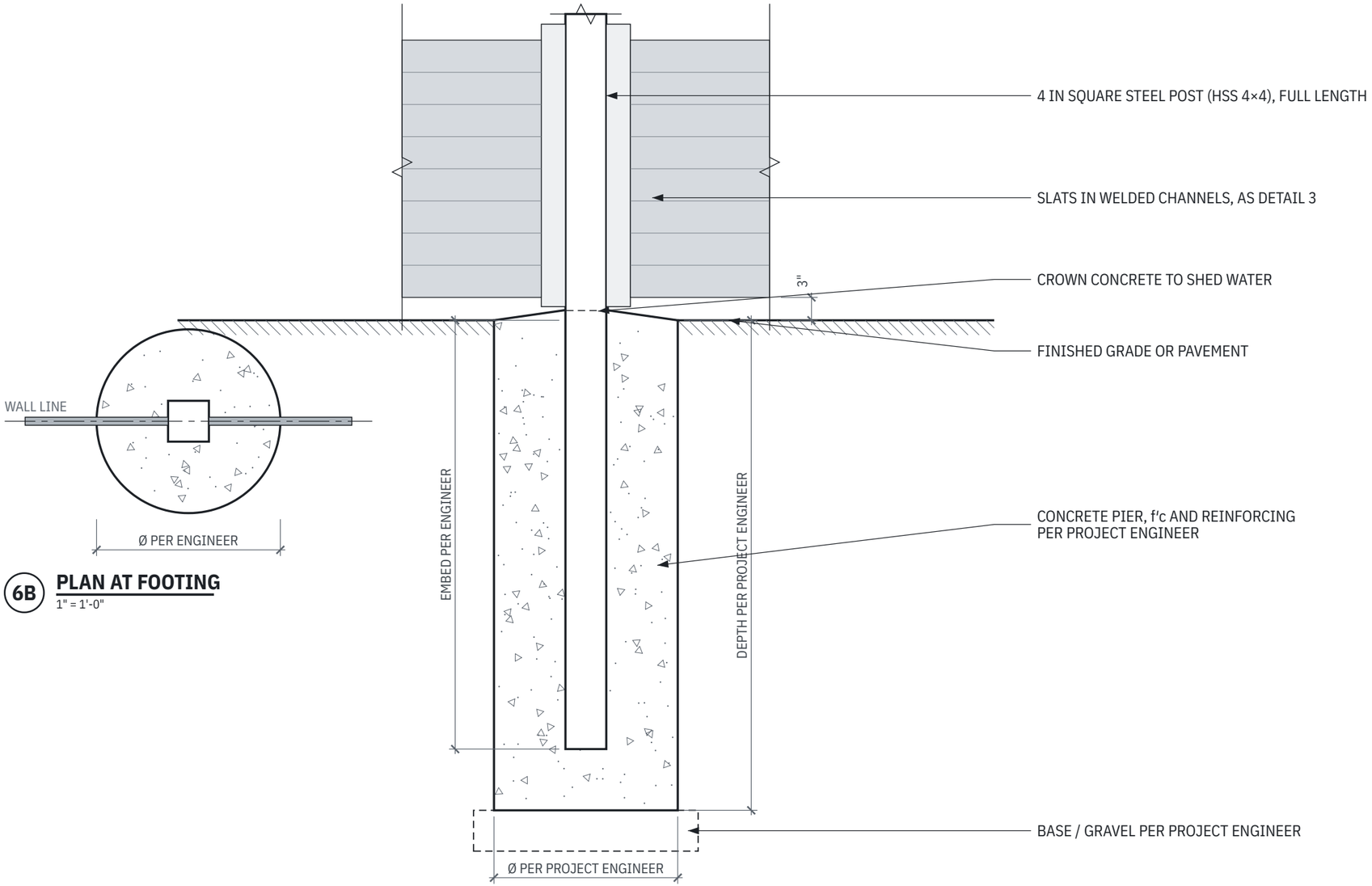
BASE PLATES AND ANCHOR PATTERN

DOC NO. AES-CIT-CAD-01	DETAIL 5
REVISION C	DATE 2026-10
SCALE (11 × 17) 3" = 1'-0"; 5D 1" = 1'-0"	
UNITS INCHES (MM)	SHEET 6 OF 8

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TYPICAL — PROJECT ENGINEERED



6B **PLAN AT FOOTING**
1" = 1'-0"

6A **EMBEDDED POST — TYPICAL SECTION**
1" = 1'-0" · CUSTOM OPTION · PROJECT ENGINEERED

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PROJECT ENGINEERING GOVERNS · PUBLIC CAD SET

NOTES

1. Embedded posts are a custom option where base plates on a slab are not used. Illustrative only; do not scale footing sizes.
2. Footing diameter and depth, embedment, concrete, reinforcing and base: by the project engineer for the site wind speed, exposure, risk category, height and soil.
3. Post length, profile and corrosion protection (hot-dip galvanizing of the entire structure where specified) confirmed per project.
4. Bottom slat 3 in above finished grade or pavement.
5. Gate posts embedded per project engineering.

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GENERAL NOTE

Typical details. Project layouts and foundations engineered per site.

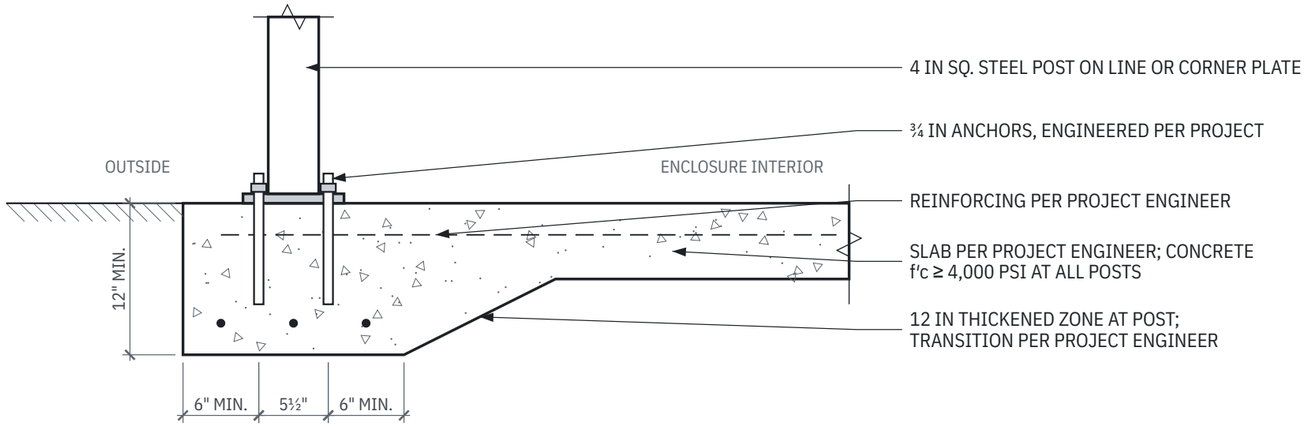
DETAIL

EMBEDDED POST TYPICAL

DOC NO. AES-CIT-CAD-01	DETAIL 6
REVISION C	DATE 2026-10
SCALE (11 × 17) 1" = 1'-0"	
UNITS INCHES (MM)	SHEET 7 OF 8

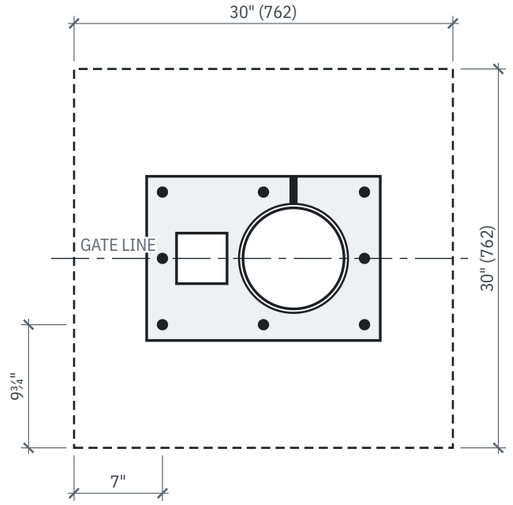
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7A **SLAB AT LINE AND CORNER POSTS — SECTION**

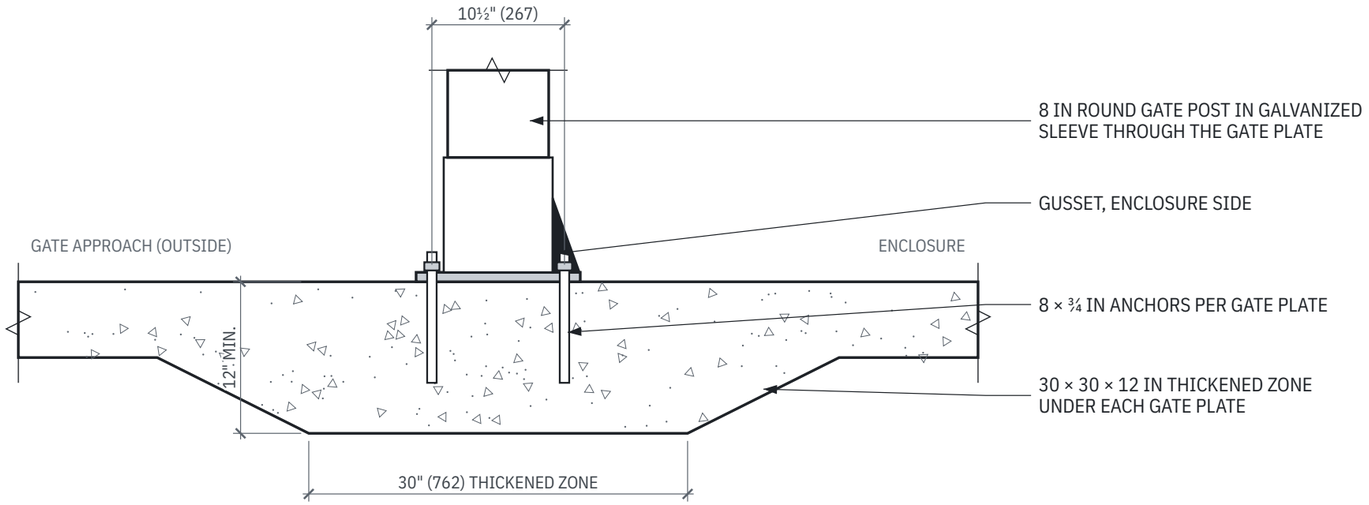
1" = 1'-0" · ACROSS THE FENCE LINE



ANCHORS AT LEAST 6 IN INSIDE THE ZONE EDGE

7C **GATE PLATE ON THICKENED ZONE — PLAN**

1" = 1'-0"



7B **SLAB AT GATE POST — SECTION**

1" = 1'-0" · ACROSS THE GATE LINE

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NOTES

1. The project engineer designs the slab, reinforcing, joints and subgrade. Alpine provides the base-plate and slab requirements shown.
2. Concrete f'c ≥ 4,000 psi, normal weight, at every post location.
3. Thickened to 12 in at line and corner posts; 30 × 30 × 12 in zone under each gate plate; transition to the typical slab per the engineer.
4. Keep the full thickened depth at least 6 in beyond the outermost anchor, and keep sawcut joints clear of anchors.
5. Typical configuration shown. Each project is engineered to ASCE 7-22 for its own wind speed, exposure category and risk category; member sizes, base plates, anchors and foundations are confirmed by project engineering.

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GENERAL NOTE

Typical details. Project layouts and foundations engineered per site.

DETAIL

SLAB AND THICKENED EDGE AT POSTS

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