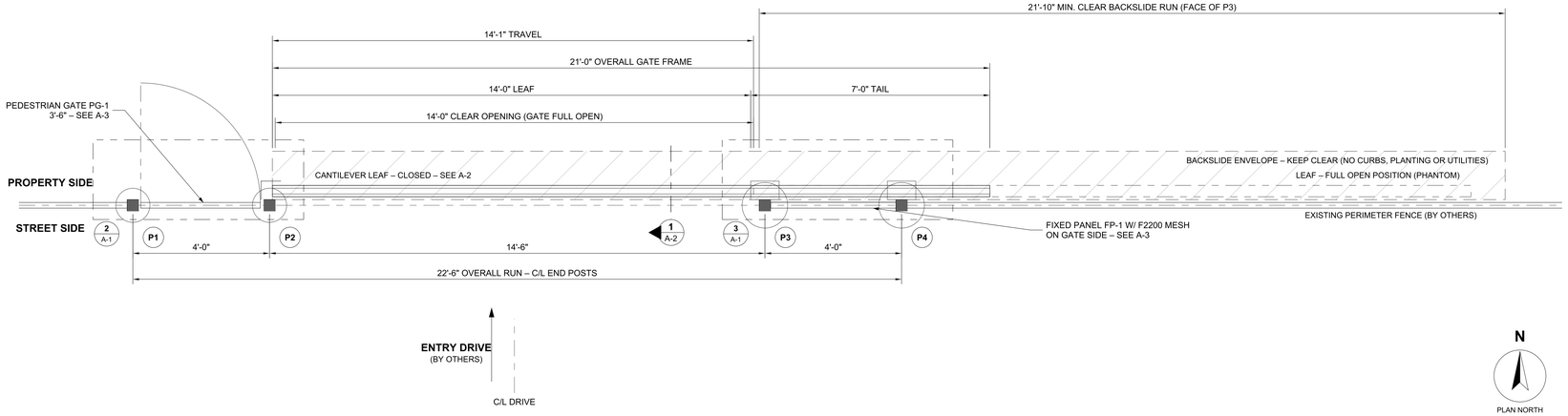
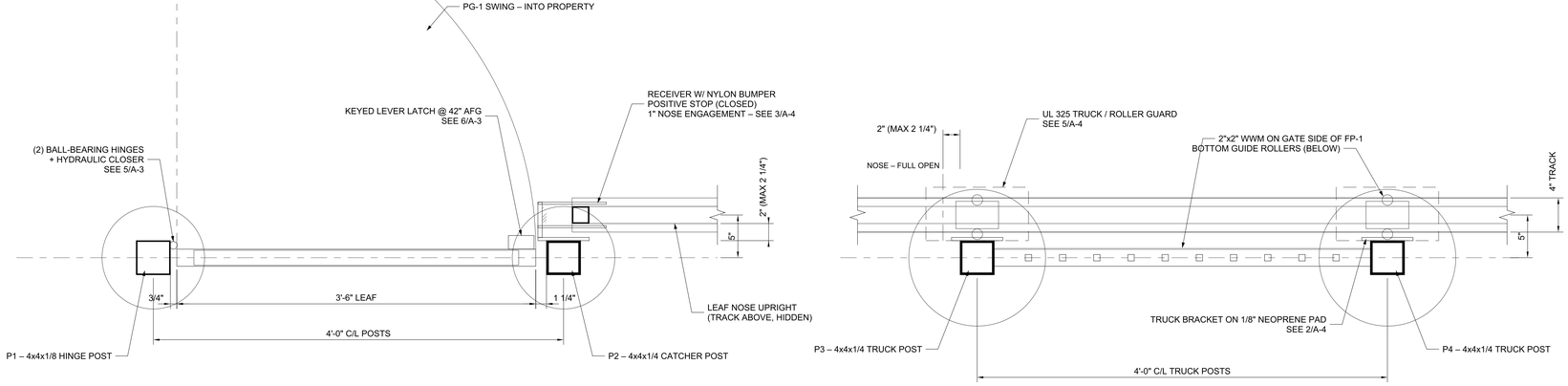


1 A-1 SITE PLAN – GATE LAYOUT & BACKSLIDE ENVELOPE

SCALE: 1/2" = 1'-0"

0 2'-0" 4'-0"



2 A-1 ENLARGED PLAN – CATCHER POST & PEDESTRIAN GATE

SCALE: 1 1/2" = 1'-0"

0 0'-6" 1'-0"

3 A-1 ENLARGED PLAN – TRUCK POSTS & FIXED PANEL

SCALE: 1 1/2" = 1'-0"

0 0'-6" 1'-0"

POST & FOOTING SCHEDULE

MARK	DESCRIPTION	POST (6063-T52)	TOP OF POST	FOOTING	EMBED	DETAIL
P1	END / HINGE POST	4"x4"x1/8"	6'-4" AFG	12" DIA. x 3'-0"	2'-6"	1/A-4
P2	CATCHER / LATCH POST	4"x4"x1/4"	6'-4" AFG	12" DIA. x 3'-6"	3'-0"	1/A-4, 3/A-4
P3	TRUCK POST – OPENING SIDE	4"x4"x1/4"	6'-10" AFG	16" DIA. x 4'-0"	3'-6"	1/A-4, 2/A-4
P4	TRUCK POST – TAIL SIDE	4"x4"x1/4"	6'-10" AFG	16" DIA. x 4'-0"	3'-6"	1/A-4, 2/A-4

LEGEND

- CONCRETE
- COMPACTED SOIL
- ALUMINUM (SECTION)
- GALV. STEEL (SECTION)
- NEOPRENE / NYLON
- VISIBLE EDGE
- HIDDEN / BELOW
- CENTERLINE
- OPEN POSITION / REFERENCE
- F2200 WELDED WIRE MESH
- 1 / A-2 — SECTION / DETAIL NUMBER, SHEET WHERE DRAWN
- P3 — POST MARK (SEE SCHEDULE)
- M1 — MEMBER MARK (SEE BOM, A-4)

GENERAL NOTES

1. PORTFOLIO SAMPLE BY BUILDPIXEL STUDIO. FICTITIOUS PROJECT – NOT FOR CONSTRUCTION, FABRICATION OR PERMIT.
2. DIMENSIONS ARE IN FEET-INCHES. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS, GRADES AND UTILITIES BEFORE FABRICATION.
3. NOMINAL RUN 22'-0" = 4'-0" + 14'-0" + 4'-0". THE DIMENSIONED RUN (22'-6" C/L END POSTS) ADDS THE POST WIDTHS AND THE TRUCK SET-BACK NEEDED FOR A TRUE 14'-0" CLEAR OPENING.
4. ALUMINUM: 6063-T52 EXTRUSIONS THROUGHOUT (ASTM B221). CONFIRM PLATE TEMPER FOR COLD BENDING WITH SUPPLIER.
5. WELDING: AWS D1.2 STRUCTURAL WELDING CODE – ALUMINUM, FILLER 4043 / 5356 PER WELD SCHEDULE ON A-4. NO WELDING TO GALVANIZED STEEL.
6. FINISH: POLYESTER POWDER COAT, COLOR BY OWNER. TOUCH UP ALL FIELD CUTS.
7. HARDWARE: GENERIC MEDIUM-DUTY CANTILEVER SYSTEM – GALVANIZED STEEL ENCLOSED TRACK BOLTED (NOT WELDED) TO THE TOP RAIL, (2) TRUCK ASSEMBLIES ON POSTS P3 / P4, BOTTOM GUIDE ROLLERS. INSTALL PER SUPPLIER.
8. ISOLATION: NYLON / NEOPRENE ISOLATION AT EVERY STEEL-TO-ALUMINUM CONTACT (PADS, SLEEVES, WASHERS) – SEE 6/A-4. BITUMINOUS COATING ON ALUMINUM IN CONTACT WITH CONCRETE.
9. FOOTINGS: CONCRETE f'_c = 3,000 PSI MIN. ON UNDISTURBED SOIL. BOTTOM BELOW LOCAL FROST DEPTH. SIZES PER SCHEDULE; ENGINEER OF RECORD TO CONFIRM FOR SITE WIND & SOIL.
10. ASTM F2200: 2"x2" WELDED WIRE MESH (OPENINGS MAX. 2 1/4") FROM TOP OF BASE PANEL TO 48" AFG ON THE GATE FRAME (LEAF + TAIL) AND ON FIXED PANEL FP-1, WHICH THE GATE COVERS WHEN OPEN.
11. ASTM F2200 / UL 325: GAP BETWEEN GATE FRAME AND POSTS MAX. 2 1/4" IN THE FULL-OPEN AND FULL-CLOSED POSITIONS.
12. UL 325: GUARD ALL TRUCKS AND ROLLERS (TRUCK GUARDS, ROLLER COVERS) – NO EXPOSED PINCH POINTS.
13. UL 325: POSITIVE STOPS AT BOTH ENDS OF TRAVEL – CATCHER RECEIVER (CLOSED), TRACK STOP BLOCK (OPEN).
14. UL 325: SEPARATE PEDESTRIAN ENTRANCE PG-1 PROVIDED. POST WARNING SIGNS BOTH SIDES OF THE VEHICULAR GATE.
15. GATE OPERATOR, CONTROLS, ENTRAPMENT-PROTECTION SENSORS, WIRING AND CONDUIT BY OTHERS.
16. KEEP THE BACKSLIDE ENVELOPE CLEAR AND LEVEL (±1" ALONG THE TRAVEL). GATE BOTTOM 2" ABOVE FINISHED GRADE.
17. FASTENERS: STAINLESS STEEL TYPE 304 U.N.O. – SEE FASTENER SCHEDULE ON A-4.

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PORTFOLIO SAMPLE
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REVISIONS

REV	DATE	DESCRIPTION	BY
0	11/05/2026	ISSUED – PORTFOLIO SAMPLE	JN

PROJECT

SAMPLE PROJECT – RESIDENTIAL COMMUNITY ENTRY GATE

Fictitious demo project – no client, no site

SCOPE

ALUMINUM CANTILEVER SLIDE GATE
14'-0" CLEAR · 6'-0" HIGH · 6063-T52
FIXED PANEL · PEDESTRIAN GATE

SHEET INDEX

A-1	SITE PLAN & GATE LAYOUT	◄
A-2	GATE LEAF ELEVATIONS & SECTIONS	
A-3	FIXED PANEL & PEDESTRIAN GATE	
A-4	DETAILS, SCHEDULES & BOM	

SHEET TITLE

SITE PLAN & GATE LAYOUT

SCALE	DATE
AS NOTED	11/05/2026
DRAWN BY	CHECKED BY
JONATHANE	—
JOB NO.	REV
BPS-SMP-1105	0

REMARKS

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ALL MATERIAL: ALUMINUM 6063-T52 U.N.O.
TRACK & TRUCK HARDWARE: GALV. STEEL, BOLTED & ISOLATED – NO WELDING.
OPERATOR BY OTHERS.

FILE

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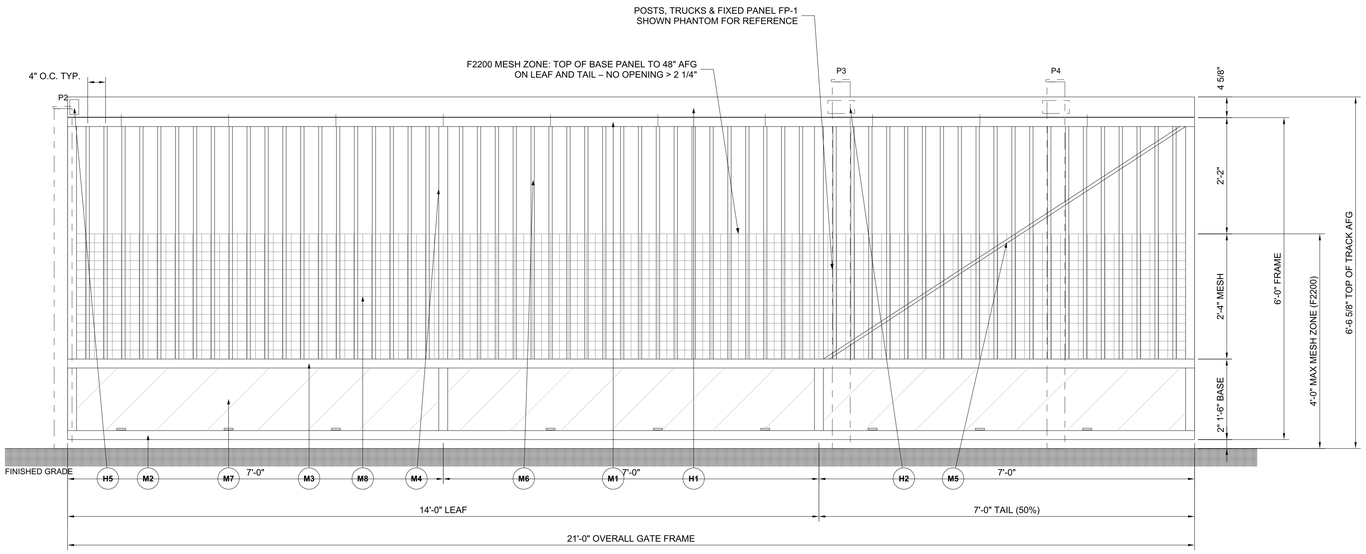
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A-1

SHEET 1 OF 4

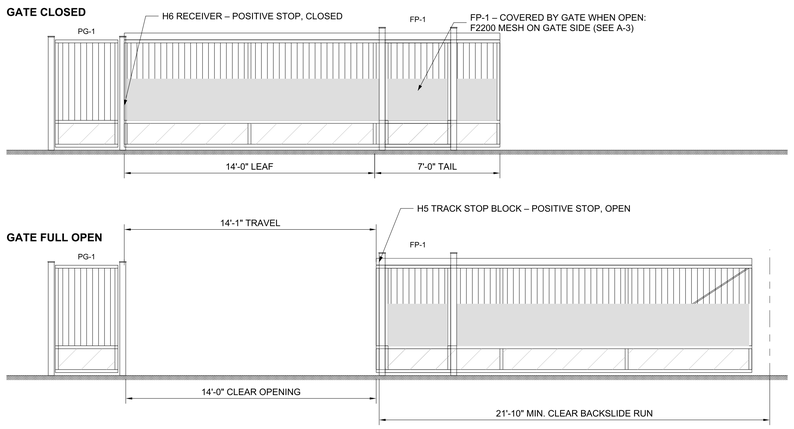
1 / A-2 GATE LEAF ELEVATION – CLOSED (VIEWED FROM STREET)

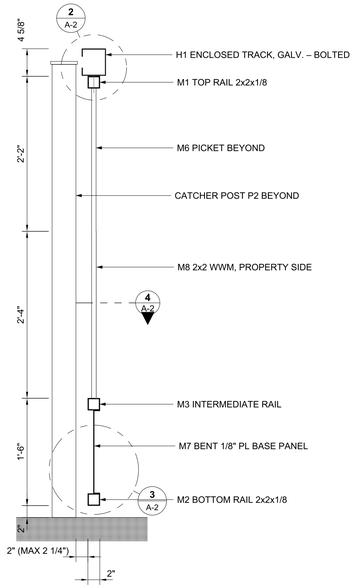
SCALE: 3/4" = 1'-0"



2 / A-2 OPERATING ELEVATION – CLOSED / OPEN (FROM STREET)

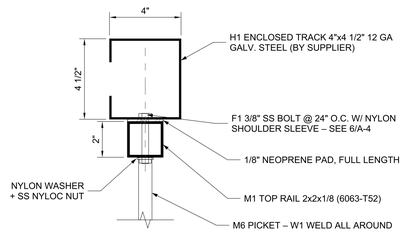
SCALE: 1/4" = 1'-0"





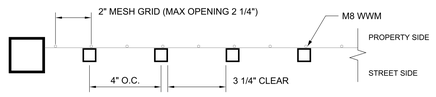
MEMBER KEY (SEE BOM, A-4)

MARK	LEAF MEMBER / HARDWARE
M1	TOP RAIL 2"x2"x1/8" TUBE
M2	BOTTOM RAIL 2"x2"x1/8" TUBE
M3	INTERMEDIATE RAIL 2"x2"x1/8" TUBE (TOP OF BASE PANEL)
M4	UPRIGHT 2"x2"x1/8" TUBE
M5	TAIL DIAGONAL BRACE 2"x2"x1/8" TUBE
M6	PICKET 3/4" SQ x .062" @ 4" O.C.
M7	BASE PANEL 1/8" PLATE BENT, 1" RETURNS
M8	WELDED WIRE MESH 2"x2" x .080" ALUM. (TO 48" AFG)
H1	ENCLOSED TRACK 4"x4 1/2" 12 GA GALV. STEEL – BOLTED
H2	TRUCK ASSEMBLY ON GALV. BRACKET (P3, P4)
H3	BOTTOM GUIDE ROLLER SET, NYLON (P3, P4)
H4	TRUCK / ROLLER GUARD (UL 325)
H5	TRACK STOP BLOCK – POSITIVE STOP, OPEN
H6	RECEIVER W/ NYLON BUMPER – POSITIVE STOP, CLOSED



2 / A-2 DETAIL – TOP RAIL & TRACK

SCALE: 3" = 1'-0"

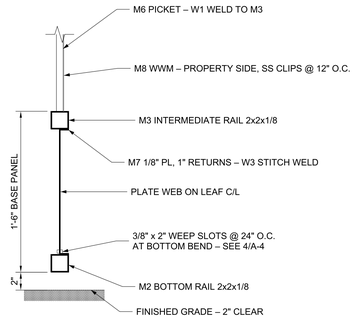


4 / A-2 PLAN SECTION @ 36" AFG – PICKETS & MESH

SCALE: 3" = 1'-0"

1 / A-2 SECTION – TYPICAL LEAF

SCALE: 1" = 1'-0"



3 / A-2 DETAIL – BASE PANEL & BOTTOM RAIL

SCALE: 1 1/2" = 1'-0"

LEAF FABRICATION NOTES

1. FRAME: ALL MEMBERS 6063-T52. RAILS CONTINUOUS FULL LENGTH, UPRIGHTS & PICKETS COPED BETWEEN RAILS.
2. TRACK H1 IS BOLTED TO THE TOP RAIL ON A FULL-LENGTH NEOPRENE PAD – DO NOT WELD. ALIGN STRAIGHT WITHIN 1/16" IN 10'.
3. SET TRUCKS SO THE LEAF HANGS PLUMB; SHIM AT BRACKETS ONLY. CAMBER TAIL 1/4" UP BEFORE LOADING (FIELD ADJUST).
4. MESH M8 ON PROPERTY FACE, SS CLIPS @ 12" O.C. EACH WAY – NO OPENING > 2 1/4" BELOW 48" AFG (ASTM F2200).
5. DRILL ALL HOLES BEFORE FINISH. SEAL TUBE ENDS WITH WELDED CAPS; 1/4" DRAIN HOLES AT LOW POINTS.

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PROJECT

SAMPLE PROJECT – RESIDENTIAL COMMUNITY ENTRY GATE

Fictitious demo project – no client, no site

SCOPE

ALUMINUM CANTILEVER SLIDE GATE
14'-0" CLEAR · 6'-0" HIGH · 6063-T52
FIXED PANEL · PEDESTRIAN GATE

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A-4 DETAILS, SCHEDULES & BOM

SHEET TITLE

GATE LEAF ELEVATIONS & SECTIONS

SCALE	DATE
AS NOTED	11/05/2026
DRAWN BY	CHECKED BY
JONATHANE	—
JOB NO.	REV
BPS-SMP-1105	0

REMARKS

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TRACK & TRUCK HARDWARE: GALV. STEEL,
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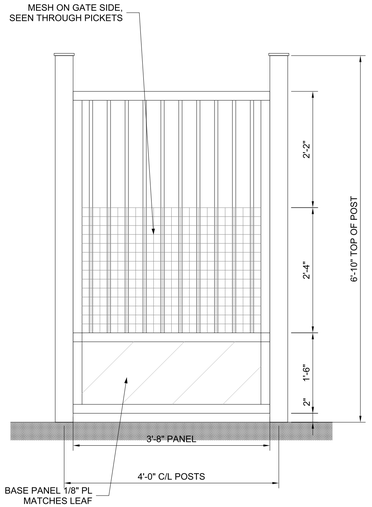
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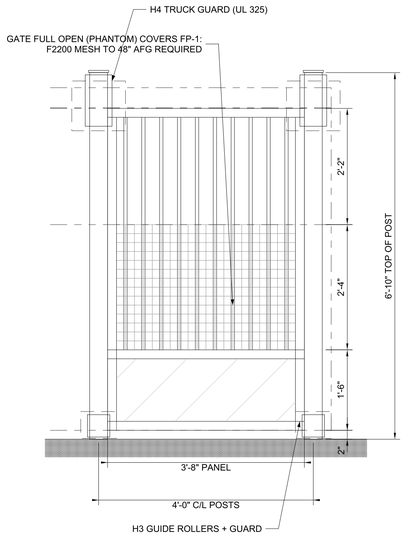
A-2

SHEET 2 OF 4



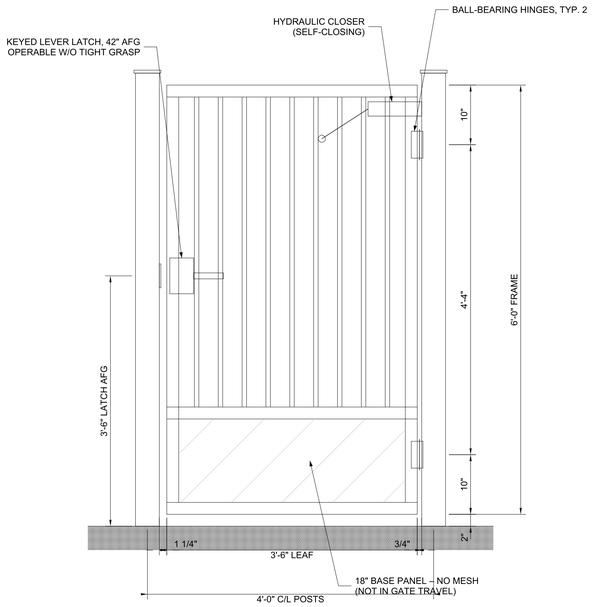
1 / A-3 FP-1 ELEVATION – STREET SIDE

SCALE: 3/4" = 1'-0"



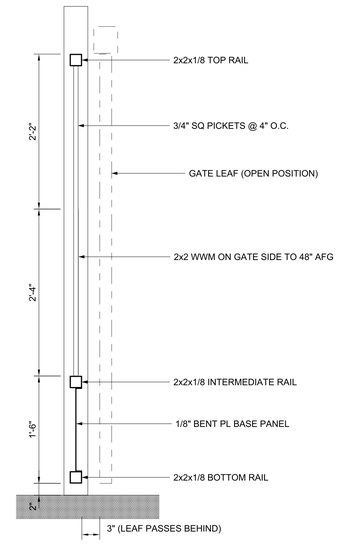
2 / A-3 FP-1 ELEVATION – PROPERTY SIDE

SCALE: 3/4" = 1'-0"



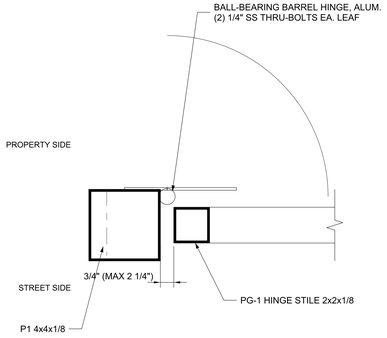
3 / A-3 PG-1 PEDESTRIAN GATE – PROPERTY SIDE

SCALE: 1" = 1'-0"



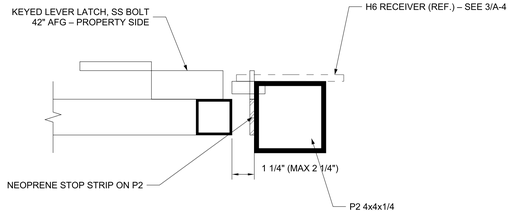
4 / A-3 SECTION – FIXED PANEL FP-1

SCALE: 1" = 1'-0"



5 / A-3 PLAN DETAIL – PG-1 HINGE

SCALE: 3" = 1'-0"



6 / A-3 PLAN DETAIL – PG-1 LATCH

SCALE: 3" = 1'-0"

PG-1 HARDWARE SCHEDULE

ITEM	QTY	DESCRIPTION	REMARKS
HINGE	2	HEAVY-DUTY BALL-BEARING BARREL HINGE, ALUMINUM	TOP & BOTTOM, SEE 5/A-3
CLOSER	1	HYDRAULIC GATE CLOSER, ADJUSTABLE SPEED & LATCH	SELF-CLOSING
LATCH	1	KEYED LEVER LATCH, SS BOLT, LEVER BOTH SIDES	42" AFG, SELF-LATCHING
STOP STRIP	1	NEOPRENE STOP STRIP ON P2, FULL HEIGHT	SEE 6/A-3
SIGN	2	"PEDESTRIAN ENTRANCE" / "VEHICLES ONLY" SIGNS	UL 325 – BY OWNER

FIXED PANEL & PEDESTRIAN GATE NOTES

1. FP-1 AND PG-1 USE THE LEAF MEMBERS (2x2x1/8 RAILS, 3/4" SQ PICKETS @ 4" O.C., 18" BENT PLATE BASE PANEL) SO THE RUN READS AS ONE FENCE LINE.
2. FP-1 IS COVERED BY THE GATE IN THE OPEN POSITION: 2"x2" WWM ON ITS GATE SIDE FROM TOP OF BASE PANEL TO 48" AFG (ASTM F2200).
3. FP-1 FRAME BOLTED TO P3 / P4 WITH ALUMINUM PANEL BRACKETS, 3 PER SIDE, 1/4" SS BOLTS – KEEP CLEAR OF TRUCK BRACKETS.
4. PG-1 SWINGS INTO THE PROPERTY, SELF-CLOSING AND SELF-LATCHING. GAPS: HINGE 3/4", LATCH 1 1/4" (MAX 2 1/4").
5. PG-1 IS THE SEPARATE PEDESTRIAN ENTRANCE REQUIRED BY UL 325 – KEEP ITS APPROACH OUTSIDE THE GATE TRAVEL.
6. HARDWARE FINISH TO MATCH POWDER COAT. ALL FASTENERS STAINLESS STEEL.

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SHEET TITLE

FIXED PANEL & PEDESTRIAN GATE

SCALE	DATE
AS NOTED	11/05/2026
DRAWN BY	CHECKED BY
JONATHANE	—
JOB NO.	REV
BPS-SMP-1105	0

REMARKS

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OPERATOR BY OTHERS.

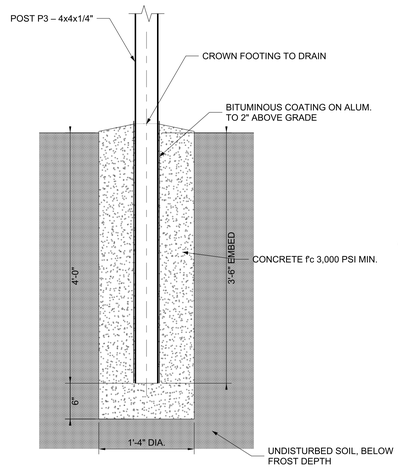
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SHEET NO.

A-3

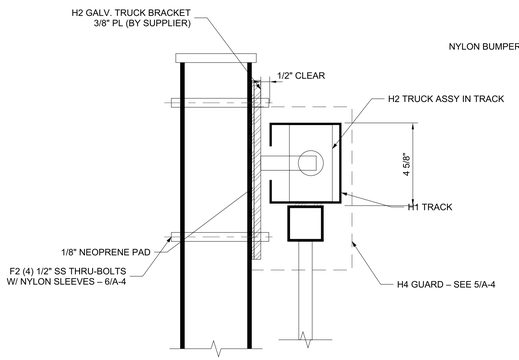
SHEET 3 OF 4



P3 / P4 SHOWN. P1 / P2: SEE POST & FOOTING SCHEDULE 1/A-1.

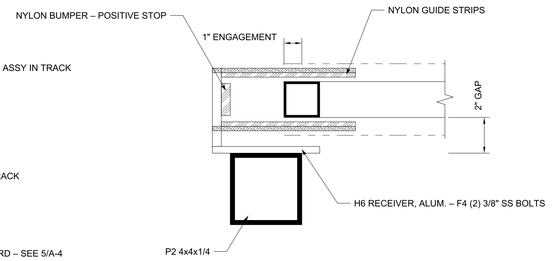
1 A-4 POST FOOTING – TYPICAL

SCALE: 1" = 1'-0"



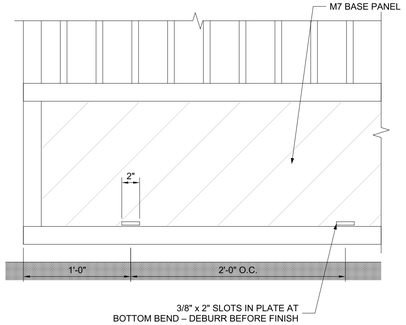
2 A-4 TRUCK BRACKET ON POST

SCALE: 3" = 1'-0"



3 A-4 CATCHER POST & RECEIVER – PLAN

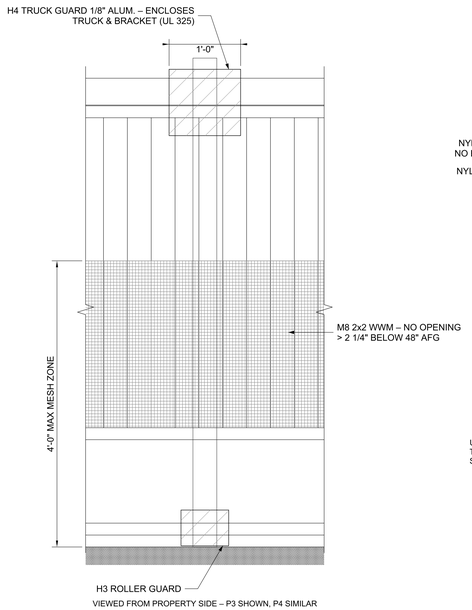
SCALE: 3" = 1'-0"



WATER ENTERING THE BASE PANEL DRAINS ON THE BOTTOM RETURN AND OUT THROUGH THE SLOTS. SEE 3/A-2 FOR SECTION.

4 A-4 BASE PANEL WEEP SLOTS

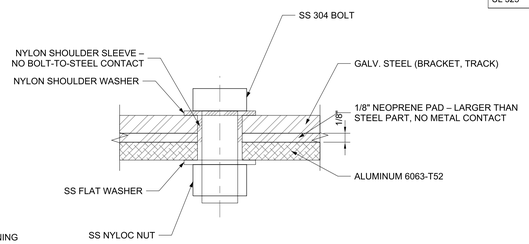
SCALE: 1 1/2" = 1'-0"



VIEWED FROM PROPERTY SIDE – P3 SHOWN, P4 SIMILAR

5 A-4 ENTRAPMENT GUARDING

SCALE: 1" = 1'-0"



USE AT EVERY STEEL-TO-ALUMINUM CONTACT: TRACK TO TOP RAIL, TRUCK BRACKETS, GUIDE-ROLLER BRACKETS. NO WELDING TO GALV. STEEL. TOUCH UP GALV. AT FIELD DRILLING WITH ZINC-RICH PAINT.

6 A-4 STEEL / ALUMINUM ISOLATION

SCALE: FULL SIZE

FASTENER SCHEDULE

MARK	CONNECTION	FASTENER	ISOLATION	SPACING
F1	TRACK TO TOP RAIL	3/8"-16 SS 304 HEX BOLT + NYLOC NUT	PAD + SLEEVE + WASHER	24" O.C.
F2	TRUCK BRACKET TO POST	(4) 1/2"-13 SS 304 THRU-BOLTS	PAD + SLEEVES + WASHERS	4 PER POST
F3	GUIDE ROLLER BRACKET	(2) 3/8"-16 SS 304 THRU-BOLTS	PAD + SLEEVES + WASHERS	2 PER POST
F4	RECEIVER TO P2	(2) 3/8"-16 SS 304 THRU-BOLTS	— (ALUM. TO ALUM.)	2
F5	GUARDS H4	#12 SS TEK SCREWS	NYLON WASHERS	6" O.C.
F6	WWM TO PICKETS	SS WIRE CLIPS / #10 SS SCREWS	—	12" O.C. EA. WAY
F7	FP-1 TO POSTS	ALUM. PANEL BRACKETS + 1/4" SS BOLTS	—	3 PER SIDE
F8	PG-1 HARDWARE	1/4"-20 SS THRU-BOLTS	PER MANUFACTURER	PER HARDWARE

WELD SCHEDULE – AWS D1.2

MARK	JOINT	WELD	FILLER	NOTES
W1	PICKETS TO RAILS	1/8" FILLET ALL AROUND	4043	BEST COLOR MATCH, CRACK RESISTANT
W2	UPRIGHTS / DIAGONAL TO RAILS	3/16" FILLET ALL AROUND	5356	HIGHER SHEAR STRENGTH
W3	BASE PANEL RETURNS TO RAILS	1/8" FILLET 1" @ 6" O.C.	4043	STITCH, BOTH SIDES
W4	POST CAPS / TUBE END CAPS	1/8" FILLET ALL AROUND	4043	SEAL WELD
W5	RECEIVER ARMS TO PLATE	3/16" FILLET ALL AROUND	5356	STRUCTURAL

GMAW (PULSE) – QUALIFIED WELDERS PER AWS D1.2. NO WELDING TO GALVANIZED STEEL HARDWARE. 6063-T52 LOSES STRENGTH IN THE HAZ – DO NOT ADD WELDS NOT SHOWN WITHOUT ENGINEER REVIEW.

BILL OF MATERIALS – ONE GATE SET

MARK	QTY	DESCRIPTION	MATERIAL	LENGTH / SIZE	REMARKS
M1	1	TOP RAIL 2x2x1/8 TUBE	6063-T52	21'-0"	LEAF
M2	1	BOTTOM RAIL 2x2x1/8 TUBE	6063-T52	21'-0"	LEAF
M3	1	INTERMEDIATE RAIL 2x2x1/8 TUBE	6063-T52	21'-0"	LEAF
M4	4	UPRIGHT 2x2x1/8 – LOWER	6063-T52	1'-2"	LEAF
M4	4	UPRIGHT 2x2x1/8 – UPPER	6063-T52	4'-4"	LEAF
M5	1	TAIL DIAGONAL 2x2x1/8 TUBE	6063-T52	8'-0 1/4"	CUT TO FIT
M6	60	PICKET 3/4 SQ x .062	6063-T52	4'-4"	@ 4" O.C.
M7	3	BASE PANEL 1/8" PL, BENT	6063-T52	PER BAY	1" RETURNS
M8	1	WWM 2x2 x .080 – LEAF	ALUM.	20'-8" x 2'-4"	F2200
FP-1	1	FIXED PANEL 3'-8" x 6'-0" (M1–M7 TYPE)	6063-T52	—	10 PICKETS
M8	1	WWM 2x2 x .080 – FP-1, GATE SIDE	ALUM.	3'-4" x 2'-4"	F2200
PG-1	1	PEDESTRIAN GATE 3'-6" x 6'-0"	6063-T52	—	9 PICKETS
P1	1	POST 4x4x1/8" TUBE + CAP	6063-T52	8'-10"	2'-6" EMBED
P2	1	POST 4x4x1/4" TUBE + CAP	6063-T52	9'-4"	3'-0" EMBED
P3	1	POST 4x4x1/4" TUBE + CAP	6063-T52	10'-4"	3'-6" EMBED
P4	1	POST 4x4x1/4" TUBE + CAP	6063-T52	10'-4"	3'-6" EMBED
H1	1	ENCLOSED TRACK 4 x 4 1/2, 12 GA	GALV. STL	21'-0"	BOLTED, F1
H2	2	TRUCK ASSY + BRACKET	GALV. STL	—	P3, P4
H3	2	BOTTOM GUIDE ROLLER SET	NYLON / GALV.	—	P3, P4
H4	4	TRUCK & ROLLER GUARDS	ALUM. 1/8"	—	UL 325
H5	1	TRACK STOP BLOCK	GALV. STL	—	STOP – OPEN
H6	1	RECEIVER W/ NYLON BUMPER	6063-T52	—	STOP – CLOSED
—	1	NEOPRENE PAD 1/8" x 2"	NEOPRENE	21'-0"	UNDER H1
—	1 SET	PG-1 HARDWARE (HINGES, CLOSER, LATCH)	—	—	SEE A-3

CODE COMPLIANCE MATRIX

STANDARD	REQUIREMENT	HOW IT IS MET	SHEET
ASTM F2200	NO OPENING > 2 1/4" UP TO 48" AFG – GATE FRAME	M8 2x2 WWM ON LEAF + TAIL	A-2
ASTM F2200	SAME, ON FIXED PANEL COVERED WHEN OPEN	M8 2x2 WWM ON FP-1, GATE SIDE	A-3
ASTM F2200	GATE-TO-POST GAP MAX 2 1/4", OPEN & CLOSED	2" OPEN; NOSE IN RECEIVER	A-1
ASTM F2200	POSITIVE STOPS BOTH ENDS OF TRAVEL	H6 RECEIVER / H5 TRACK STOP	A-2, A-4
UL 325	GUARD ALL ROLLERS & TRUCKS (PINCH POINTS)	H4 TRUCK GUARDS + ROLLER GUARDS	5/A-4
UL 325	SEPARATE PEDESTRIAN ENTRANCE	PG-1 3'-6" SELF-CLOSING GATE	A-3
UL 325	WARNING SIGNS, BOTH SIDES OF GATE	BY OWNER – LOCATIONS ON A-3	A-3
UL 325	LISTED OPERATOR + ENTRAPMENT PROTECTION	BY OTHERS (NOT IN THIS SET)	A-1

BUILDPIXEL STUDIO
CAD DRAFTING · SHOP DRAWINGS · 3D

PORTFOLIO SAMPLE
NOT FOR CONSTRUCTION

REVISIONS

REV	DATE	DESCRIPTION	BY
0	11/05/2026	ISSUED – PORTFOLIO SAMPLE	JN

PROJECT

SAMPLE PROJECT – RESIDENTIAL COMMUNITY ENTRY GATE

Fictitious demo project – no client, no site

SCOPE

ALUMINUM CANTILEVER SLIDE GATE
14'-0" CLEAR · 6'-0" HIGH · 6063-T52
FIXED PANEL · PEDESTRIAN GATE

SHEET INDEX

A-1 SITE PLAN & GATE LAYOUT
A-2 GATE LEAF ELEVATIONS & SECTIONS
A-3 FIXED PANEL & PEDESTRIAN GATE
A-4 DETAILS, SCHEDULES & BOM ◄

SHEET TITLE

DETAILS, SCHEDULES & BOM

SCALE	DATE
AS NOTED	11/05/2026
DRAWN BY	CHECKED BY
JONATHANE	—
JOB NO.	REV
BPS-SMP-1105	0

REMARKS

DIMENSIONS IN FEET-INCHES.
DO NOT SCALE DRAWINGS.
ALL MATERIAL: ALUMINUM 6063-T52 U.N.O.
TRACK & TRUCK HARDWARE: GALV. STEEL, BOLTED & ISOLATED – NO WELDING.
OPERATOR BY OTHERS.

FILE

BPS-SMP-1105_A-4.dwg

SHEET NO.

A-4

SHEET 4 OF 4