

KNOTWOOD - GENERIC FENCE SHOP DRAWINGS

PROPERTY MANAGER: PER ARCHITECT / ENGINEER

DESIGN ENGINEER:

COMPLETE JOINT PENETRATION

CLR

PVE, LLC2000 GEORGETOWN DRIVE, SUITE 101
SEWICKLEY, PA 15143

ELEVATOR

EMBEDMENT

DRAWII	NG LI	<u>ST</u>	LATEST REVISION	DATE
T-100	-	TITLE SHEET		
G-100	-	GENERAL NOTES		
A-100	-	HORIZONTAL FENCING 2-WAY POST		
A-101	-	HORIZONTAL FENCING 2-WAY POST DETAILS		
A-200	-	VERTICAL FENCING 2-WAY POST		
A-201	-	VERTICAL FENCING 2-WAY POST & CONT. RAIL		
A-202	-	VERTICAL FENCING 2-WAY POST DETAILS		
A-300	-	HORIZONTAL FENCING 4X4 POST		
A-301	-	HORIZONTAL FENCING 4X4 POST DETAILS		
A-400	-	VERTICAL FENCING 4X4 POST		
A-401	-	VERTICAL FENCING 4X4 POST DETAILS		

STEEL JOIST INSTITUTE

SHORT LED (DIM) VERTICAL

<u>ABBREVI</u>	ATIONS:	<u>ABBREVI</u>	ATIONS (CONT.):	<u>ABBREV</u>	IATIONS (CONT.):	<u>ABBREVIA</u>	ATIONS (CONT.):	<u>ABBREVI</u>	ATIONS (CONT.):	<u>ABBREVI</u>	ATIONS (CONT.):
ABV	ABOVE	CLSM	CONTROLLED LOW STRENGTH MATERIAL	EOS	EDGE OF SLAB	kN	KILONEWTON	(N)	NEW	SOG	SLAB-ON-GRADE
ACI	AMERICAN CONCRETE INSTITUTE	CMU	CONCRETE MASONRY UNIT	EQ	EQUAL	kPa	KILOPASCAL	OC	ON CENTER	STD	STANDARD
ACIP	AUGERED CAST-IN-PLACE PILES	CO	CLEAN OUT	EQUIP	EQUIPMENT	I	LITER	OPNG	OPENING	STL	STEEL
ADD'L	ADDITIONAL	COL	COLUMN	EW	EACH WAY	L	LENGTH	OPP	OPPOSITE	STRUCT	STRUCTURAL
AE	AIR-ENTRAINED	CONC	CONCRETE	EXIST	EXISTING	LBS	POUNDS	O.F.	OUTER FACE	T	TOP OF TREAD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CONT	CONTINUOUS	EXP	EXPANSION	Ld	REINF BAR DEVELOPMENT LENGTH	PJP	PARTIAL JOINT PENETRATION	T/	TOP OF
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	COORD	COORDINATE	FT	FOOT/FEET	LLH	LONG LEG HORIZ	PSF	POUNDS PER SQUARE FOOT	TOF	TOP OF FOOTING
APPROX	APPROXIMATELY	COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE	FTG	FOOTING	LLV	LONG LEG VERT	PSI	POUNDS PER SQUARE INCH	TOS	TOP OF STEEL
AR	ANCHOR ROD	db	REINFORCING BAR DIAMETER	FE	FIRE ESCAPE	LP	LOW POINT	PT	POST-TENSION	THK	THICK
ARCH	ARCHITECTURAL	DIA	DIAMETER	GALV	GALVANIZE	LTWT	LIGHT WEIGHT	R	RISER	TMS	THE MASONRY SOCIETY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	DN	DOWN	GL	GRIDLINE	m	METER	REF	REFERENCE	TYP	TYPICAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	DTLS	DETAILS	Н	HIGH	mm	MILLIMETER	REINF	REINFORCING OR REINFORCEMENT	UNO	UNLESS NOTED OTHERWISE
AWS	AMERICAN WELDING SOCIETY	DWG	DRAWING	HORIZ	HORIZONTAL	MAX	MAXIMUM	REQ'D	REQUIRED	VERT	VERTICAL
В	воттом	DWLS	DOWELS	HP	HIGH POINT	MANUF	MANUFACTURER	SCHED	SCHEDULE	W/C	WATER-CEMENTITIOUS MATERIAL RATIO
B/	BOTTOM OF	Е	EXISTING	HS	HIGH STRENGTH	MECH	MECHANICAL	SC	SLIP CRITICAL	W	WIDTH
ВН	BULKHEAD	EA	EACH	HSA	HEADED SHEAR ANCHOR	MEP	MECH/ELECT/PLUMBING	SDI	STEEL DECK INSTITUTE	WD	WOOD
BLDG	BUILDING	EF	EACH FACE	IN	INCH(ES)	MIN	MINIMUM	SDL	SUPERIMPOSED DEAD LOAD	WP	WORK POINT
BM	BEAM	EL	ELEVATION	IP	INFLECTION POINT	MPa	MEGAPASCAL	SEC	SECONDS	WWR	WELDED WIRE REINFORCEMENT
ВОТ	воттом	ELECT	ELECTRICAL	I.F.	INSIDE FACE	MTL	METAL	SIM	SIMILAR		

KIPS (1000 POUNDS)

NEWTON

NORMAL WEIGHT

PREPARED FOR:	
K	KNOTWOOD Stunning Aluminum 5555 W Roosevelt St Phoenix, AZ 85043
ISSUED FOR:	
ISSUED DATE:	05/15/2024

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PROJECT NAME:

KNOTWOOD - GENERIC FENCE SHOP DRAWINGS

PROJECT LOCATION:

DRAWING NAME:

TITLE SHEET

SEAL & SIGNATURE

PROJECT NO:

2110314

DRAWN BY:

CHECKED BY:

DRAWING NO:

T_100

GENERAL NOTES:

1. **DRAWING REFERENCE:**

N/A

- 2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO INSTALLATION. DO NOT SCALE OFF DRAWINGS.
- 3. ALL MEMBERS SHALL BE SAW CUT IN FIELD AS REQUIRED.
- 4. NO SPLICES SHALL BE PERMITTED UNLESS INDICATED OTHERWISE ON DRAWINGS.
- TOUCH UP ALL SCRATCHES WITH DEALER PROVIDED COLORS TO MATCH.
- 6. WELDING IS NOT PERMITTED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 7. THE CONTENTS SHOW THE APPLICATION OF ALUMINUM KNOTWOOD FRAMING COMPONENTS ONLY. THE INSTALLING CONTRACTOR IS TO REFER TO THE PROJECT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
- DIMENSIONS HEREIN ARE FOR ENGINEERING PURPOSES ONLY AND MUST BE REVIEWED FOR THE PURPOSE OF APPROVAL. ALL CONDITIONS ARE SUBJECT TO APPROVAL AND TO FIELD VERIFICATION PRIOR TO FABRICATION OR INSTALLATION.
- BEFORE ORDERING, FABRICATING OR ERECTING ANY MATERIAL, MAKE ANY NECESSARY SURVEYS AND MEASUREMENTS TO VERIFY THAT IN PLACE WORK HAS BEEN BUILT ACCORDING TO THE CONTRACT DOCUMENTS AND ARE WITHIN ACCEPTABLE TOLERANCES. THIS INCLUDES THE ORIGINAL BUILDINGS AND ALL ADDITIONS THERETO. NOTIFY THE A/E AND OWNER'S REPRESENTATIVES OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 10. TEMPORARY BRACING OF THE SYSTEM AND SAFETY DURING CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING OF THE SYSTEM SHALL REMAIN IN PLACE UNTIL THE SYSTEM IS TOTALLY IN PLACE. CONTRACTOR SHALL COORDINATE LOCATIONS OF TEMPORARY BRACING WITH OTHER CONTRACTORS. REFER TO DRAWINGS FOR ADDITIONAL CRITERIA.
- 11. THIS SUBMITTAL IS SUBJECT TO THE REVIEW AND APPROVAL OF THE PROJECT ARCHITECT/ENGINEER OF RECORD PRIOR TO INSTALLATION.

BUILDING LOADS:

1. SUPERIMPOSED DEAD LOAD AND LIVE LOADS

a. DEAD LOAD

	LOAD	
1.	KESG100100	2.77 PLF
2.	KESP2W6565	1.72 PLF
3.	KESP2C6565EF	1.37 PLF
4.	KESP1W6525	0.96 PLF
5.	KESP3030	0.39 PLF
6.	KES15016	0.90 PLF
7.	KES10016	0.60 PLF

- b. LIVE LOADS
- 1. N/A NO LIVE LOADS CONSIDERED FOR TYP. FENCING
- 2. SNOW LOADS
 - a. N/A SNOW LOADS NEGLECTED
- 3. WIND
 - WIND PRESSURES CONSIDERED SEE A-100, A-200, A-300, & A-400
- 4. SEISMIC
 - a. N/A SEISMIC LOADS NEGLECTED

CODES AND STANDARDS:

- 1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFFERENCED WITHIN, APPLY TO THE DESIGN AND CONSTRUCTION OF THIS PROJECT WITH LATEST EDITION PER GOVERNING BUILDING CODE TO BE USED:
 - a. ASCE 7-16, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
 - b. ASCE 7-10, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
 - c. IBC 2018. "INTERNATIONAL BUILDING CODE"
 - d. IBC 2015, "INTERNATIONAL BUILDING CODE"
 - e. 7TH EDITION 2020 FLORIDA BUILDING CODE (IBC 2018)
 - AA ADM-2015 "ALUMINUM DESIGN MANUAL"

 - AA ADM-2010 "ALUMINUM DESIGN MANUAL"
 - h. ACI 318-14. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

ALUMINUM NOTES:

1. ALL STRUCTURAL ALUMINUM COMPONENTS SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE AND ADM-2015.

2. MATERIAL NOTES:

ALL SHAPES SHALL BE ONE OF THE FOLLOWING ALUMINUM ALLOYS AND **TEMPERS:**

6061-T6	6063-T6	6063-T5
F _y : 35 KSI	F _y : 25 KSI	F _y : 16 KSI
F _u : 38 KSI	F _u : 30 KSI	F _u : 22 KSI
E: 10x10 ³ KSI	E: 10x10 ³ KSI	E: 10x10 ³ KSI

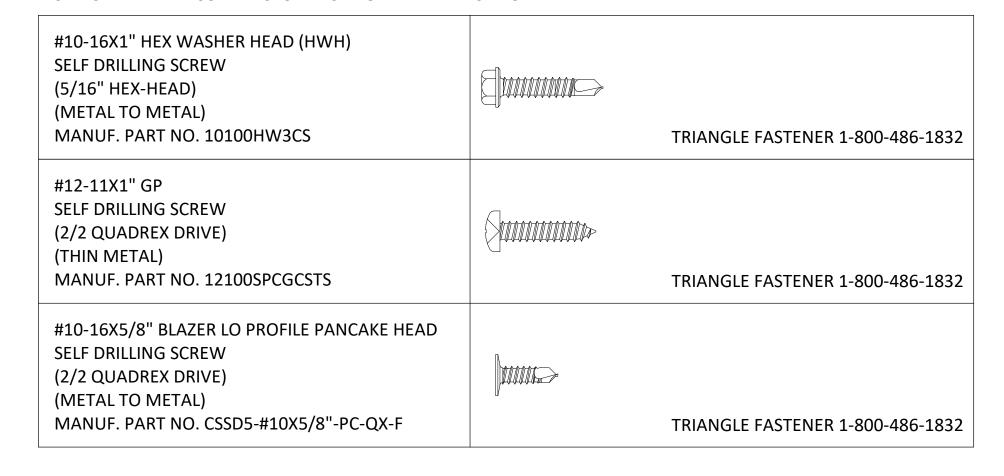
3. SCREWS:

SELF-TAPPING METAL SCREWS (AS NOTED) - #10 MINIMUM GALVANIZED UNLESS NOTED OTHERWISE ALUMINUM WHERE NOTED AT HIGH/SALT EXPOSURE

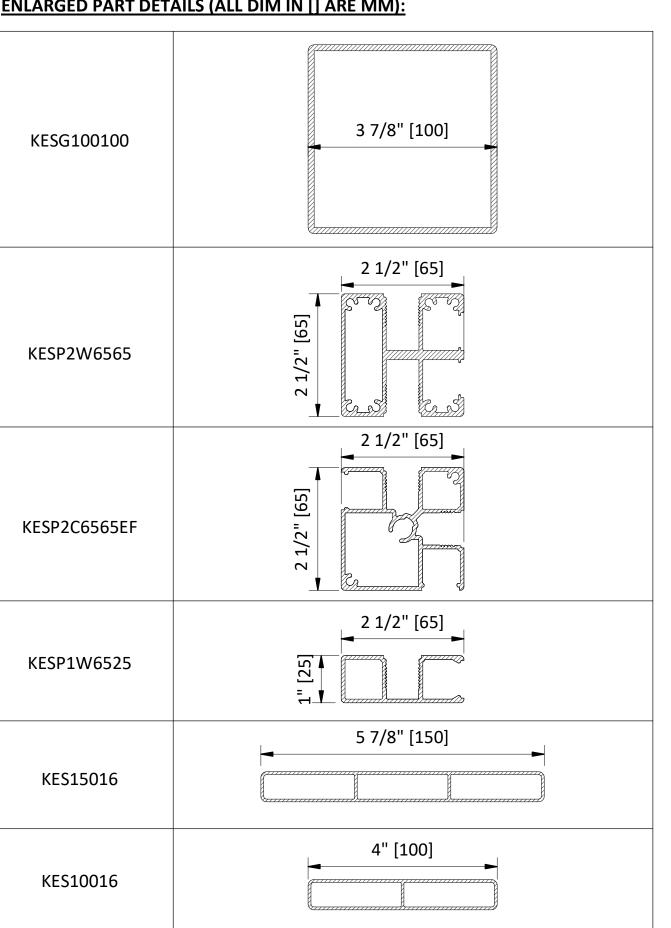
- WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS TELL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
- UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED METALS EXCEPT 300 SERIES STAINLESS, ZINC, OR CADMIUM.
- ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER SHALL BE PAINTED.
- 7. ALUMINUM SURFACES SHALL BE PAINTED IF THEY ARE TO BE PLACED IN CONTACT WITH CONCRETE OR MASONRY UNLESS THE CONCRETE OR MASONRY REMAINS DRY AFTER CURING AND NO CORROSIVE ADDITIVES SUCH AS CHLORIDES ARE USED.
- ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE WITH CORROSIVE ADDITIVES SUCH AS CHLORIDES IF THE ALUMINUM IS ELECTRICALLY CONNECTED TO STEEL. ALUMINUM EMBEDDED IN CONCRETE SHALL BE WRAPPED WITH 10 MIL PIPE WRAP OR PLASTIC TAPE. WRAP MUST PROTECT ALL ALUMINUM SURFACES FROM EXPOSURE TO CONCRETE.
- AS AN ALTERNATIVE TO THE PREVIOUS REQUIREMENTS FOR ALUMINUM IN CONTACT WITH OTHER MATERIALS, ALUMINUM SHALL BE SEPARATED FROM THE MATERIALS OF THIS SECTION BY A NONPOROUS ISOLATOR COMPATIBLE WITH THE ALUMINUM AND THE DISSIMILAR MATERIAL.
- 10. STEEL FASTENERS WITH A MINIMUM TENSILE ULTIMATE STRENGTH GREATER THAN 120 KSI IN THE LOAD BEARING PORTION OF THE SHANK SHALL NOT BE USED IN CONTACT WITH ALUMINUM. ALL FASTENERS SHALL BE LOCATED AT A SPACING THAT CONFORMS TO AISC STANDARD GAGE AND PITCH.
- 11. BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16" (U.O.N.).
- 12. PREDRILL ALL HOLES FOR MATERIAL THICKER THAN 3/16".
- 13. NOMINAL DIAMETER OF UNTHREADED HOLES FOR SCREWS SHALL NOT EXCEED THE NOMINAL DIAMETER OF THE SCREWS BY MORE THAN 1/16".
- 14. THE SPACING BETWEEN SCREW CENTERS SHALL NOT BE LESS THAN 2.5 TIMES THE NOMINAL DIAMETER OF THE SCREWS.
- 15. THE DISTANCE FROM THE EDGE OF A PART TO THE CENTER OF THE SCREWS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL DIAMETER OF THE SCREW.
- 16. WASHERS SHALL HAVE A NOMINAL DIAMETER NOT LESS THAN 5/16" AND SHALL HAVE A NOMINAL THICKNESS NOT LESS THAN 0.050".

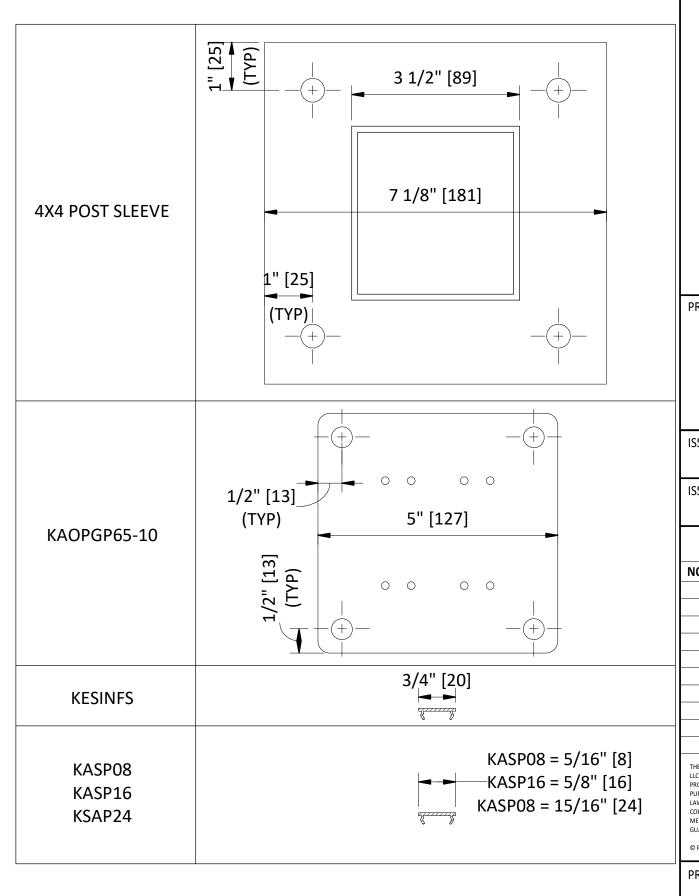
TYPICAL SCREW FASTENER LEGEND:

NOTE: SCREWS SHOWN BELOW ARE TYPICAL EXAMPLES AND ALL MAY NOT BE USED IN PROJECT. CONTRACTOR MAY ELECT TO USE OTHER TYPES. SCREW MATERIAL PER THE GENERAL NOTES AND MINIMUM SCREW DIAMETER PER THE DETAILS MUST BE MAINTAINED. DRILL POINT, HEAD STYLE, AND THREAD COUNT PER INCH SHALL BE SELECTED BY THE CONTRACTOR BASED ON THE APPLICATION.



ENLARGED PART DETAILS (ALL DIM IN [] ARE MM):





	PREP/	ARED FOR:	ZNOTWOON™				
		55	KNOTWOOD tunning Aluminum 555 W Roosevelt St Phoenix, AZ 85043				
	ISSUED FOR:						
	O5/15/2024 PLAN REVISIONS						
	NO.	DATE	DESCRIPTION				
[8] 16] [24]	THE DESIGN CONCEPTS, IDEAS, AND ALL ASSOCIATED INFORMATION DEPICTED HEREIN IS THE SOLE PROPERTY O LLC. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR BENEFIT OF THE PERSON(S) NAMED ABOVE AND FOR TH PROJECT NOTED ON THIS DOCUMENT. THE REPRODUCTION, ALTERATION, USE BY ANY THIRD PARTY, OR USE FO PURPOSE OTHER THAN SPECIFIED, WITHOUT WRITTEN CONSENT FROM PVE LLC, IS PROHIBITED AND A VIOLATIC LAW. USE OF THIS DOCUMENT IS WITH FULL RESPONSIBILITY OF ALL INHERENT ERRORS OR OMISSIONS. ELECTRIC COPIES OF THIS DOCUMENT SHALL BE SUBJECT TO THE SAME COPYRIGHT CONDITIONS AS STATED ABOVE. ELECT MEDIA MAY CONTAIN ERRORS OR SYSTEM INCOMPATIBILITIES. PVE, LLC. IN ISSUANCE OF THIS DOCUMENT, MAI GUARANTEES AS TO THE ACCURACY OF THE ELECTRONIC DATA OR THE GENERAL WORKABILITY OF THIS DOCUMENT.						
	PROJE	ECT NAME:					

DRAWINGS PROJECT LOCATION: DRAWING NAME: **GENERAL NOTES**

KNOTWOOD - GENERIC FENCE SHOP

SEAL & SIGNATURE PROJECT NO:

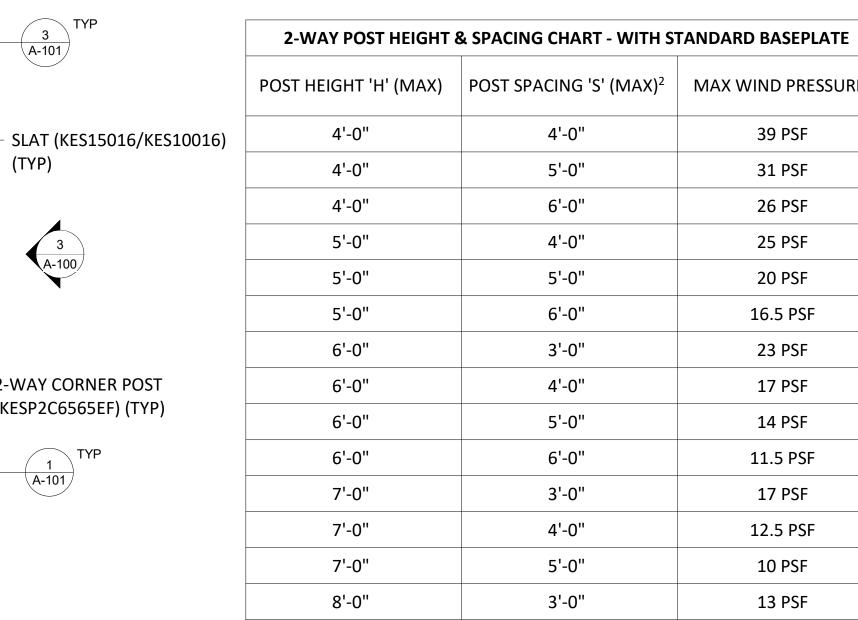
> DRAWN BY: CHECKED BY:

G-100

2110314



1. FINAL LAYOUT MAY VARY, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK.



POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE ¹
4'-0"	4'-0"	39 PSF
4'-0"	5'-0"	31 PSF
4'-0"	6'-0"	26 PSF
5'-0"	4'-0"	25 PSF
5'-0"	5'-0"	20 PSF
5'-0"	6'-0"	16.5 PSF
6'-0"	3'-0"	23 PSF
6'-0"	4'-0"	17 PSF
6'-0"	5'-0"	14 PSF
6'-0"	6'-0"	11.5 PSF
7'-0"	3'-0"	17 PSF
7'-0"	4'-0"	12.5 PSF
7'-0"	5'-0"	10 PSF
8'-0"	3'-0"	13 PSF
8'-0"	4'-0"	9.75 PSF

1. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7.

2. MAX POST SPACING BASED ON SOLID FENCING.

8'-0" 4'-0" 12.25 PSF 1. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7. 2. MAX POST SPACING BASED ON SOLID FENCING.

2-WAY POST HEIGHT & SPACING CHART - WITH EMBEDDED POST

POST HEIGHT 'H' (MAX) POST SPACING 'S' (MAX)² MAX WIND PRESSURE¹

4'-0"

5'-0"

6'-0"

4'-0"

5'-0"

6'-0"

3'-0"

4'-0"

5'-0"

6'-0"

3'-0"

4'-0"

5'-0"

3'-0"

49 PSF

39 PSF

32 PSF

31 PSF

25 PSF

20 PSF

29 PSF

21 PSF

17 PSF

14.5 PSF

21 PSF

16 PSF

12.5 PSF

16.25 PSF

4'-0"

4'-0"

4'-0"

5'-0"

5'-0"

5'-0"

6'-0"

6'-0"

6'-0"

6'-0"

7'-0"

7'-0"

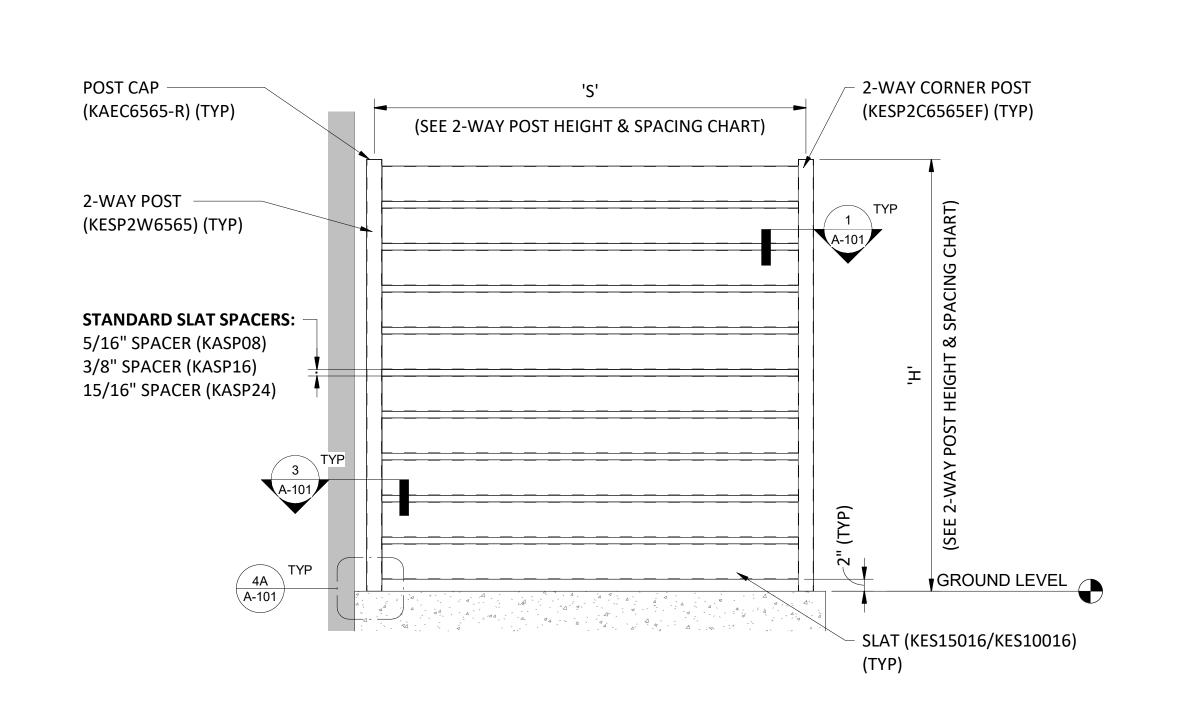
7'-0"

8'-0"

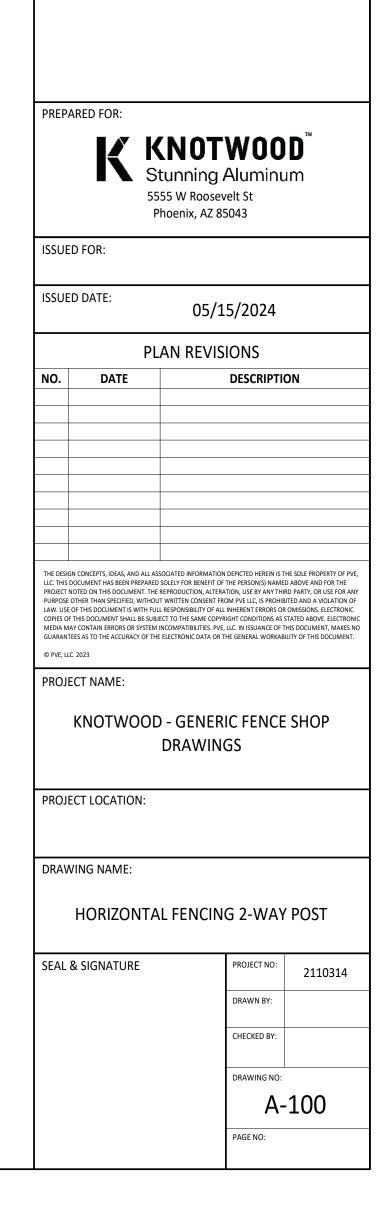
A-100 - HEIC			A-100
Y POST			
2-WAY	2-WAY POST		/ 2-WAY CORNER POST
(SEE	(KESP2W6565) (TYP)		(KESP2C6565EF) (TYP)
			TYP 1
		TYP	A-101
	'S'	A-101 'S'	
	(SEE 2-WAY POST HEIGHT & SPACING CHART)	(SEE 2-WAY POST HEIGHT & SPACING CHART)	
	A-10	00/	
2-WAY POST FENCE - F	PLAN VIEW		
3/4" = 1'-0"			

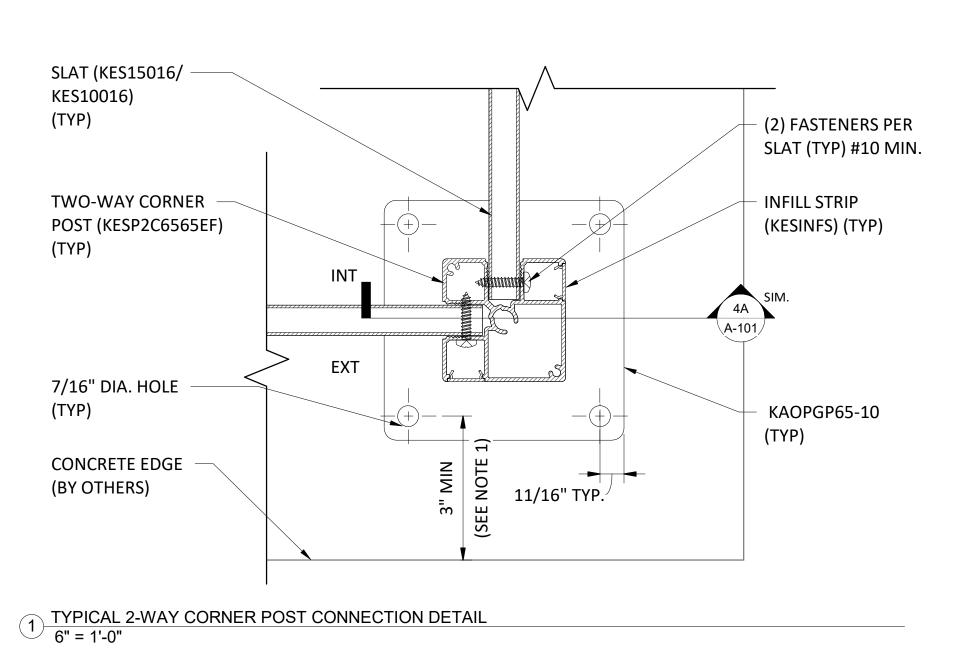
POST CAP (KAEC6565-R) (TYP) (SEE 2-WAY POST HEIGHT & SPACING CHART) (SEE 2-WAY POST HEIGHT & SPACING CHART) STANDARD SLAT SPACERS: 5/16" SPACER (KASP08) 3/8" SPACER (KASP16) 15/16" SPACER (KASP24) 2-WAY CORNER POST (KESP2C6565EF) (TYP) __2-WAY POST (KESP2W6565) (TYP) SLAT (KES15016/KES10016) GROUND LEVEL

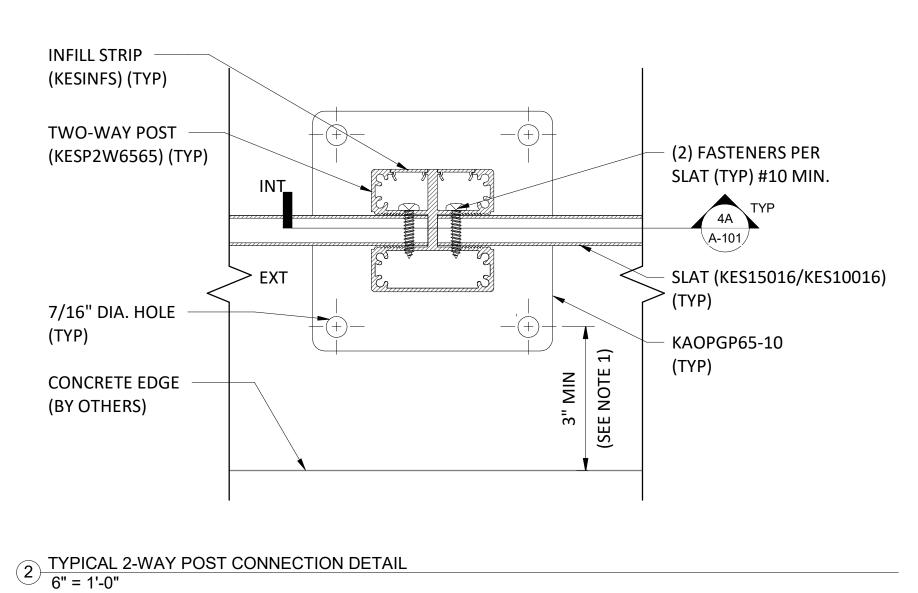
2-WAY POST FENCE - ELEVATION I
3/4" = 1'-0"

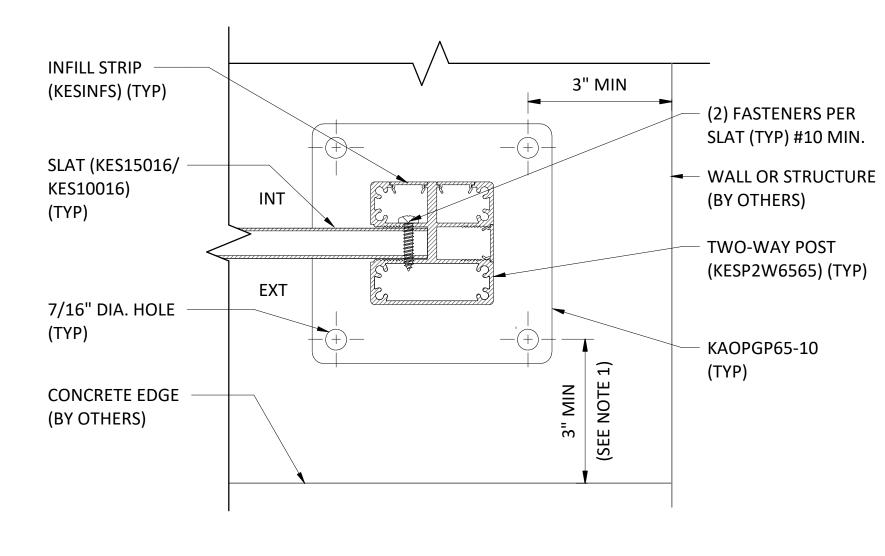


3 2-WAY POST FENCE - ELEVATION II 3/4" = 1'-0"

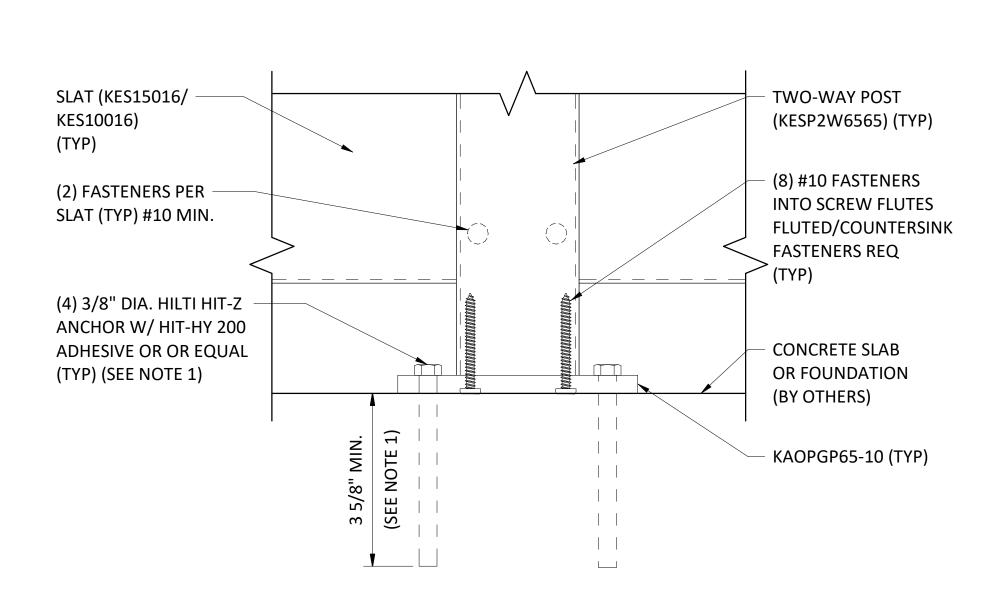




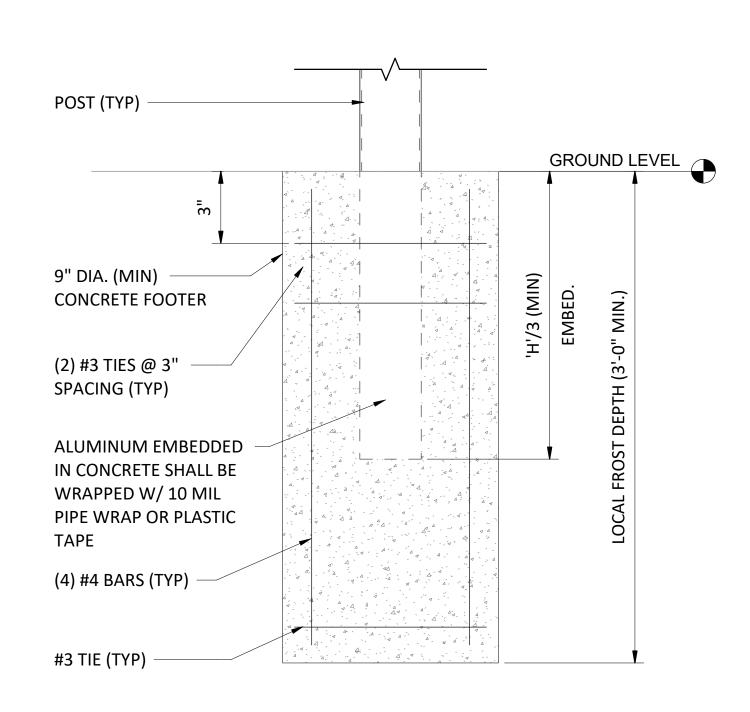




3 TYPICAL 2-WAY POST END CONNECTION DETAIL 6" = 1'-0"



TYPICAL 2-WAY POST ANCHOR DETAIL
6" = 1'-0"



TYPICAL 2-WAY POST EMBEDMENT ALTERNATE DETAIL

3" = 1'-0"

PREPARED FOR:
KNOTWOOL Stunning Aluminun 5555 W Roosevelt St Phoenix, AZ 85043
ISSUED FOR:

ANCHORAGE DESIGN IS BASED ON

MAXIMUM MOMENT ALLOWED

ANCHORAGE CAN BE DESIGNED

FOR REDUCED LOADS BASED ON

BY BASEPLATE WITH 6" MIN.

THICK 4000 PSI CONCRETE.

LOCAL CONDITIONS BY EOR.

ISSUED	DATE:	05/15/2024
	PLAN	I REVISIONS
NO.	DATE	DESCRIPTION

LLC. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR BENEFT OF THE PERSON(S) NAMED ABOVE AND FOR THE PROJECT OF PVE, LLC. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR BENEFT OF THE PERSON(S) NAMED ABOVE AND FOR THE PROJECT NOTED ON THIS DOCUMENT. THE REPRODUCTION, ALTERATION, USE BY ANY THIRD PARTY, OR USE FOR ANY PURPOSE OTHER THAN SPECIFIED, WITHOUT WRITTEN CONSENT FROM PVE LLC, IS PROHIBITED AND A VIOLATION OF LAW. USE OF THIS DOCUMENT IS WITH FULL RESPONSIBILITY OF ALL INHERENT ERRORS OR OMISSIONS. ELECTRONIC COPIES OF THIS DOCUMENT SHALL BE SUBJECT TO THE SAME COPYRIGHT CONDITIONS AS STATED ABOVE. ELECTRONIC MEDIA MAY CONTAIN ERRORS OR SYSTEM INCOMPATIBILITIES. PVE, LLC. IN ISSUANCE OF THIS DOCUMENT, MAKES NO GUARANTEES AS TO THE ACCURACY OF THE ELECTRONIC DATA OR THE GENERAL WORKABILITY OF THIS DOCUMENT.

PROJECT NAME:

KNOTWOOD - GENERIC FENCE SHOP DRAWINGS

PROJECT LOCATION:

DRAWING NAME:

HORIZONTAL FENCING 2-WAY POST DETAILS

SEAL & SIGNATURE

PROJECT NO:

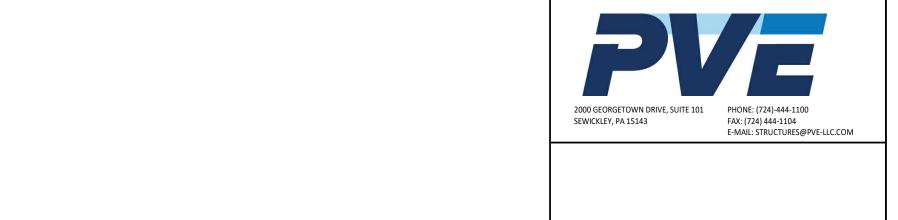
2110314

DRAWN BY:

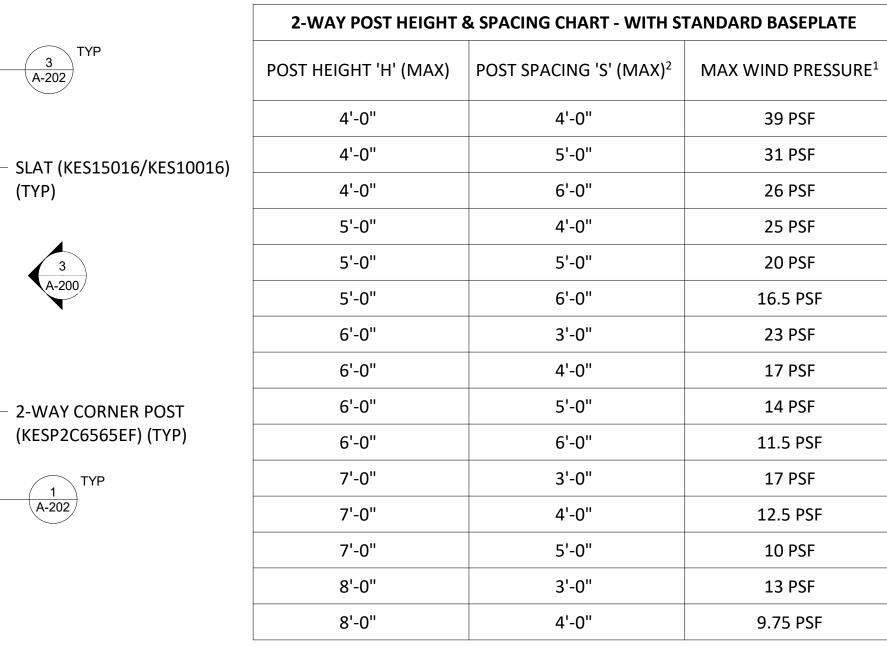
CHECKED BY:

DRAWING NO:

A-101



1. FINAL LAYOUT MAY VARY, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK.



 $\begin{array}{|c|c|}
\hline
 & 3 \\
\hline
 & A-200
\end{array}$

- 2-WAY CORNER POST

(KESP2C6565EF) (TYP)

. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DE	FINED BY ASCE 7.
. MAX POST SPACING BASED ON SOLID FENCING.	

2-WAY POST HEIGHT & SPACING CHART - WITH EMBEDDED POST				
POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE		
4'-0"	4'-0"	49 PSF		
4'-0"	5'-0"	39 PSF		
4'-0"	6'-0"	32 PSF		
5'-0"	4'-0"	31 PSF		
5'-0"	5'-0"	25 PSF		
5'-0"	6'-0"	20 PSF		
6'-0"	3'-0"	29 PSF		
6'-0"	4'-0"	21 PSF		
6'-0"	5'-0"	17 PSF		
6'-0"	6'-0"	14.5 PSF		
7'-0"	3'-0"	21 PSF		
7'-0"	4'-0"	16 PSF		
7'-0"	5'-0"	12.5 PSF		
8'-0"	3'-0"	16.25 PSF		
8'-0"	4'-0"	12.25 PSF		

1. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7.

2. MAX POST SPACING BASED ON SOLID FENCING.

	'S'	'S'	
SPACING CHART)	(SEE 2-WAY POST HEIGHT & SPACING CHART) TYP 2-WAY POST 2-WAY POST	(SEE 2-WAY POST HEIGHT & SPACING CHART) TYP A-202 A-202	POST CAP (KAEC6565-R) (TYP) 1-WAY POST (KESP1W6525) (TYP) 2-WAY CORNER POST (KESP2C6565EF) (TYP)
'H' (SEE 2-WAY POST HEIGHT &	(KESP2W6565) (TYP) A-202		SLAT (KES15016/KES10016) (TYP) 1-WAY POST (KESP1W6525) (TYP) GROUND LEVEL
5/ 3/	TANDARD SLAT SPACERS: 716" SPACER (KASP08) 78" SPACER (KASP16) 5/16" SPACER (KASP24)	TYP	4

2-WAY POST

(KESP2W6565) (TYP)

(SEE 2-WAY POST HEIGHT & SPACING CHART)

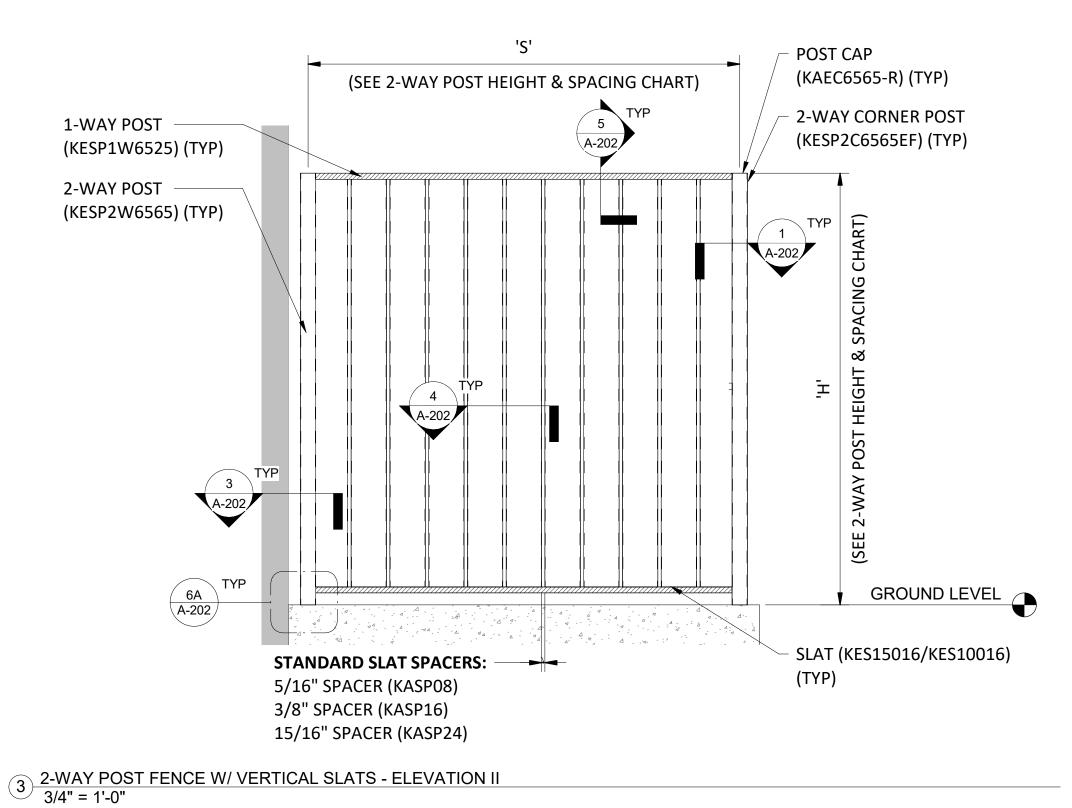
1 2-WAY POST FENCE W/ VERTICAL SLATS - PLAN VIEW 3/4" = 1'-0"

1-WAY POST

(SEE 2-WAY POST HEIGHT & SPACING CHART)

(KESP1W6525) (TYP)

2-WAY POST FENCE W/ VERTICAL SLATS - ELEVATION I
3/4" = 1'-0"



						PREP <i>A</i>	5555	NOTWOO unning Aluminu 5 W Roosevelt St penix, AZ 85043	D ™
	4	'S'	POST	CAP C6565-R) (TYP)		ISSUE	D FOR:		
	(SEE 2-WAY POST HE	EIGHT & SPACING CHART) TYP A-202		Y CORNER POST 2C6565EF) (TYP)		ISSUE	D DATE:	05/15/2024	
TYP	TYP A-202		TYP A-202	(SEE 2-WAY POST HEIGHT & SPACING CHART) OU TI TI TI TI TI TI TI TI TI T		LLC. THIS E PROJECT N PURPOSE (LAW, USE COPIES OF MEDIA M GUARANTI © PVE, LLC PROJE	N CONCEPTS, IDEAS, AND ALL ASSOC OCCUMENT HAS BEEN PREPARED SO OTEO ON THIS DOCUMENT. THE REF OTHER THAN SPECIFIED, WITHOUT WE THIS DOCUMENT IS WITH FULL RITHIS DOCUMENT SHALL BE SUBJECT Y CONTAIN ERRORS OR SYSTEM INC EST AS TO THE ACCURACY OF THE ELL. 2023 CT NAME: KNOTWOOD -	LELY FOR BENEFIT OF THE PERSON(S) NAMEI PRODUCTION, ALTERATION, USE BY ANY THIR PRITTEN CONSENT FROM PVE LLC, IS PROHIB ESPONSIBILITY OF ALL INHERENT ERRORS OR TO THE SAME COPYRIGHT CONDITIONS AS S OMPATIBILITIES. PVE, LLC. IN ISSUANCE OF T	THE SOLE PROPERTY OF D ABOVE AND FOR THE RD PARTY, OR USE FOR R OMISSIONS. ELECTRO STATED ABOVE. ELECTR HIS DOCUMENT, MAKI ILITY OF THIS DOCUME
5/16 3/8'	NDARD SLAT SPACERS: — 5" SPACER (KASP08) ' SPACER (KASP16) L6" SPACER (KASP24)		SLAT (TYP)	(KES15016/KES10016)		DRAW	VING NAME:	ENCING 2-WAY P	'OST
'ERTICA	AL SLATS - ELEVATION II				_	SEAL 8	§ SIGNATURE	PROJECT NO: DRAWN BY:	2110314
								DRAWING NO: PAGE NO:	-200
								TAGENO.	



1. FINAL LAYOUT MAY VARY, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK.

	2-WAY POST HEIGHT	& SPACING CHART - WITH S	TANDARD BASEPLATE
3 A-202	POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE
(1-202)	4'-0"	4'-0"	39 PSF
	4'-0"	5'-0"	31 PSF
/- SLAT (KES15016/KES10016)	4'-0"	6'-0"	26 PSF
(TYP)	5'-0"	4'-0"	25 PSF
TYP	5'-0"	5'-0"	20 PSF
A-201	5'-0"	6'-0"	16.5 PSF
•	6'-0"	3'-0"	23 PSF
	6'-0"	4'-0"	17 PSF
2 WAY CORNER BOST	6'-0"	5'-0"	14 PSF
2-WAY CORNER POST (KESP2C6565EF) (TYP)	6'-0"	6'-0"	11.5 PSF
TYP	7'-0"	3'-0"	17 PSF
1 A-202	7'-0"	4'-0"	12.5 PSF
	7'-0"	5'-0"	10 PSF
	8'-0"	3'-0"	13 PSF
	8'-0"	4'-0"	9.75 PSF
	•	•	

. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7	7 .
. MAX POST SPACING BASED ON SOLID FENCING.	

2-WAY POST HEIGHT & SPACING CHART - WITH EMBEDDED POST			
POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE	
4'-0"	4'-0"	49 PSF	
4'-0"	5'-0"	39 PSF	
4'-0"	6'-0"	32 PSF	
5'-0"	4'-0"	31 PSF	
5'-0"	5'-0"	25 PSF	
5'-0"	6'-0"	20 PSF	
6'-0"	3'-0"	29 PSF	
6'-0"	4'-0"	21 PSF	
6'-0"	5'-0"	17 PSF	
6'-0"	6'-0"	14.5 PSF	
7'-0"	3'-0"	21 PSF	
7'-0"	4'-0"	16 PSF	
7'-0"	5'-0"	12.5 PSF	
8'-0"	3'-0"	16.25 PSF	
8'-0"	4'-0"	12.25 PSF	

1. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7. 2. MAX POST SPACING BASED ON SOLID FENCING.

	'S' (SEE 2-WAY POST HEIGHT & SPACING CHART) TYP A-202	(SEE 2-WAY POST HEIGHT & SPACING CHART) TYP A-202	1-WAY POST (KESP1W6525) (TYP)
'H' (SEE 2-WAY POST HEIGHT & SPACING CHART)	2-WAY POST (KESP2W6565) (TYP) A-202 A-202 A-202		2-WAY CORNER POST (KESP2C6565EF) (TYP) TYP A-202 SLAT (KES15016/KES10016) (TYP) 1-WAY POST (KESP1W6525) (TYP) GROUND LEVEL
5, 3,	TANDARD SLAT SPACERS: 716" SPACER (KASP08) 78" SPACER (KASP16) 75/16" SPACER (KASP24)	6A A-202	

2-WAY POST

(KESP2W6565) (TYP)

(SEE 2-WAY POST HEIGHT & SPACING CHART)

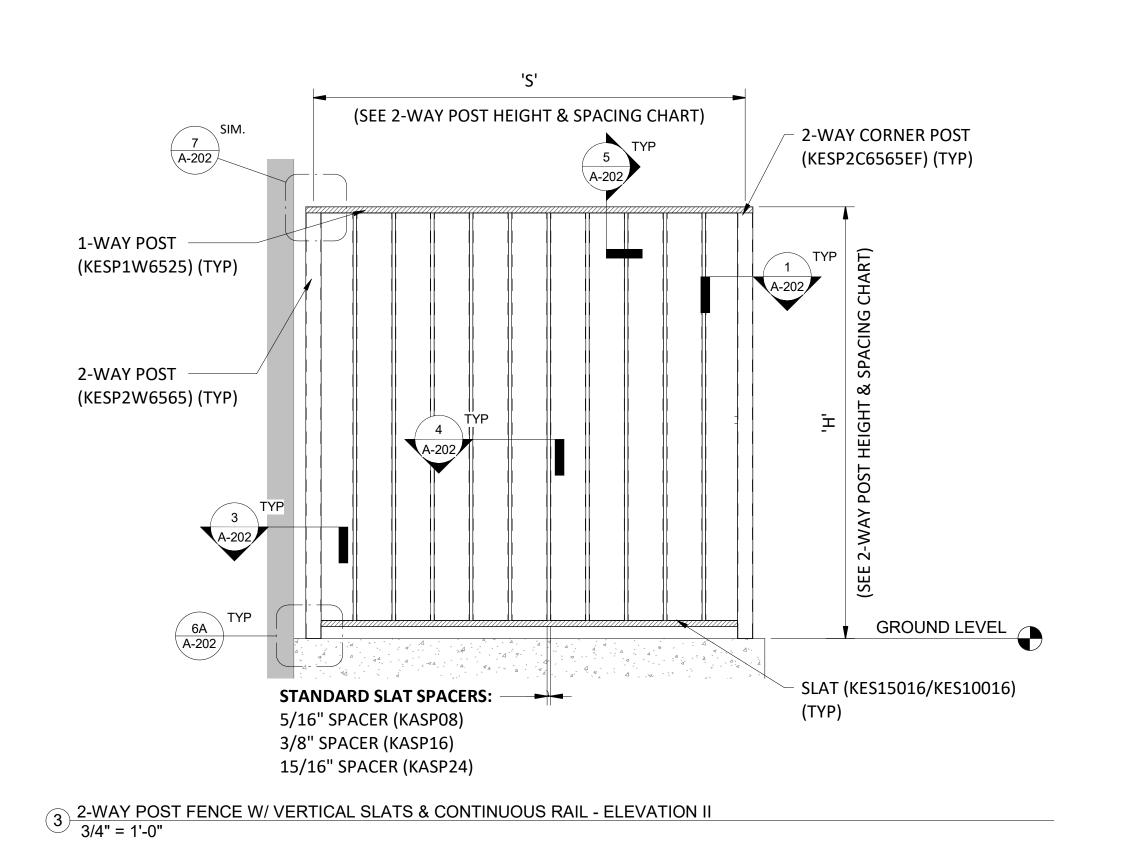
1 2-WAY POST FENCE W/ VERTICAL SLATS - PLAN VIEW 3/4" = 1'-0"

2-WAY POST FENCE W/ VERTICAL SLATS & CONTINUOUS RAIL - ELEVATION I
3/4" = 1'-0"

1-WAY POST

(KESP1W6525) (TYP)

(SEE 2-WAY POST HEIGHT & SPACING CHART)



KNOTWOOD ■ Stunning Aluminum 5555 W Roosevelt St Phoenix, AZ 85043 ISSUED FOR: ISSUED DATE: 05/15/2024 PLAN REVISIONS NO. DATE DESCRIPTION THE DESIGN CONCEPTS, IDEAS, AND ALL ASSOCIATED INFORMATION DEPICTED HEREIN IS THE SOLE PROPERTY OF PVE, LLC. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR BENEFIT OF THE PERSON(S) NAMED ABOVE AND FOR THE PROJECT NOTED ON THIS DOCUMENT. THE REPRODUCTION, ALTERATION, USE BY ANY THIRD PARTY, OR USE FOR ANY PROJECT NOTED IN THIS DOCUMENT. THE REPRODUCTION, ALTERNATION, OSE 9 THAY THIND PARITY, OR USE YOR AND PURPOSE OTHER THAN SPECIFIED, WITHOUT WRITTEN CONSENT FROM PVE LLC, IS PROHIBITED AND A VIOLATION OF LAW, USE OF THIS DOCUMENT IS WITH FULL RESPONSIBILITY OF ALL INHERENT ERRORS OR OMISSIONS, ELECTRONIC COPIES OF THIS DOCUMENT SHALL BE SUBJECT TO THE SAME COPYRIGHT CONDITIONS AS STATED ABOVE. ELECTRONIC MEDIA MAY CONTAIN ERRORS OR SYSTEM INCOMPATIBILITIES, PVE, LLC. IN ISSUANCE OF THIS DOCUMENT, MAKES NO GUARANTEES AS TO THE ACCURACY OF THE ELECTRONIC DATA OR THE GENERAL WORKABILITY OF THIS DOCUMENT. PROJECT NAME: KNOTWOOD - GENERIC FENCE SHOP **DRAWINGS** PROJECT LOCATION: DRAWING NAME: VERTICAL FENCING 2-WAY POST & CONT. SEAL & SIGNATURE PROJECT NO: 2110314 DRAWN BY: CHECKED BY: A-201



MAXIMUM MOMENT ALLOWED BY BASEPLATE WITH 6" MIN. THICK 4000 PSI CONCRETE. ANCHORAGE CAN BE DESIGNED FOR REDUCED LOADS BASED ON LOCAL CONDITIONS BY EOR.

ANCHORAGE DESIGN IS BASED ON



I✓ KNOTWOOD Stunning Aluminum 5555 W Roosevelt St Phoenix, AZ 85043

ISSUED FOR:

ISSUED DATE: 05/15/2024

NO. DATE DESCRIPTION

PLAN REVISIONS

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PROJECT NAME:

KNOTWOOD - GENERIC FENCE SHOP DRAWINGS

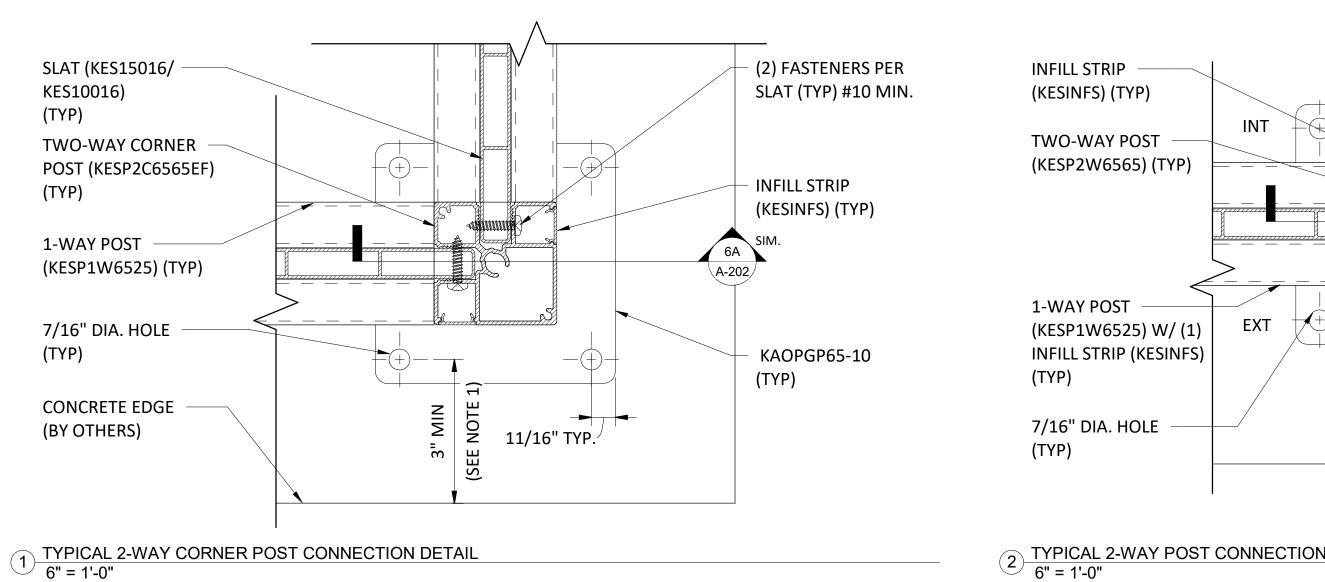
PROJECT LOCATION:

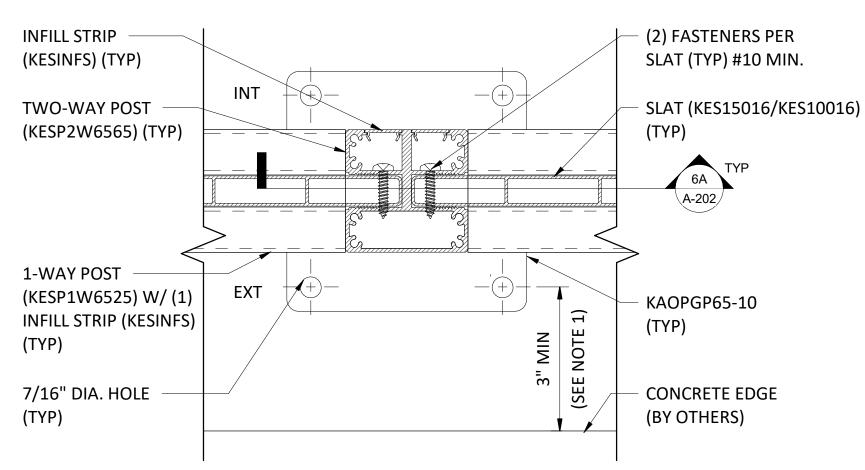
DRAWING NAME:

VERTICAL FENCING 2-WAY POST DETAILS

SEAL & SIGNATURE PROJECT NO: 2110314 DRAWN BY: CHECKED BY: DRAWING NO:

A-202





(2) FASTENERS PER SLAT (TYP) #10 MIN.

- 2-9/16" ONE WAY

2-9/16" ONE WAY

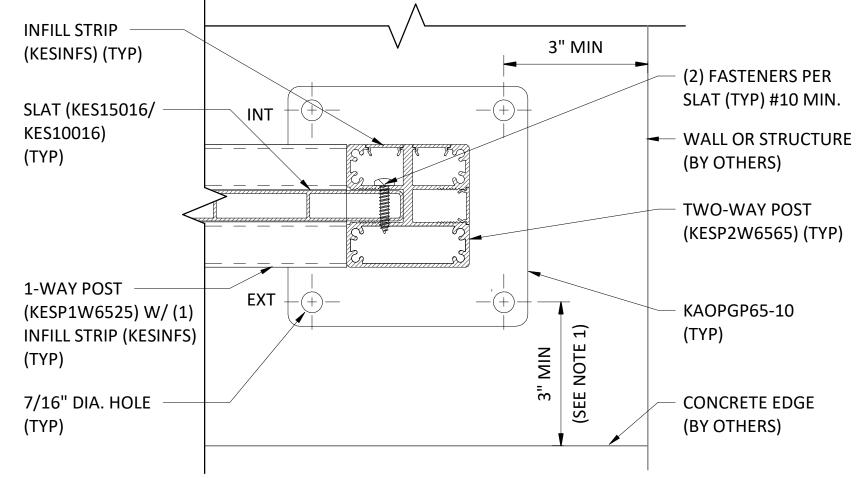
STRIP (KESINFS) (TYP)

(KESP1W6525) W/ (1)INFILL

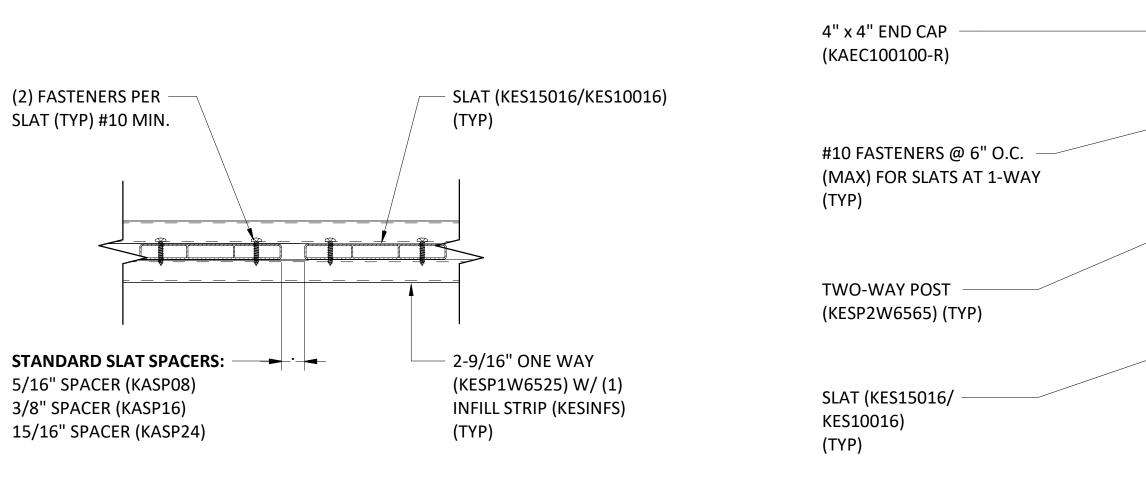
(TYP)

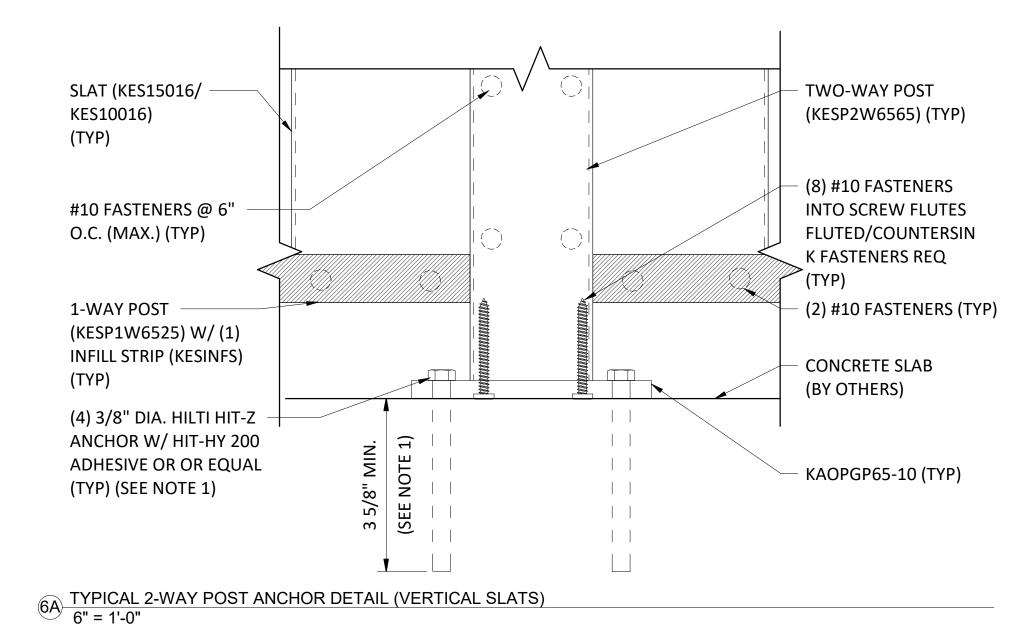
(KESP1W6525) W/ (1)

INFILL STRIP (KESINFS)



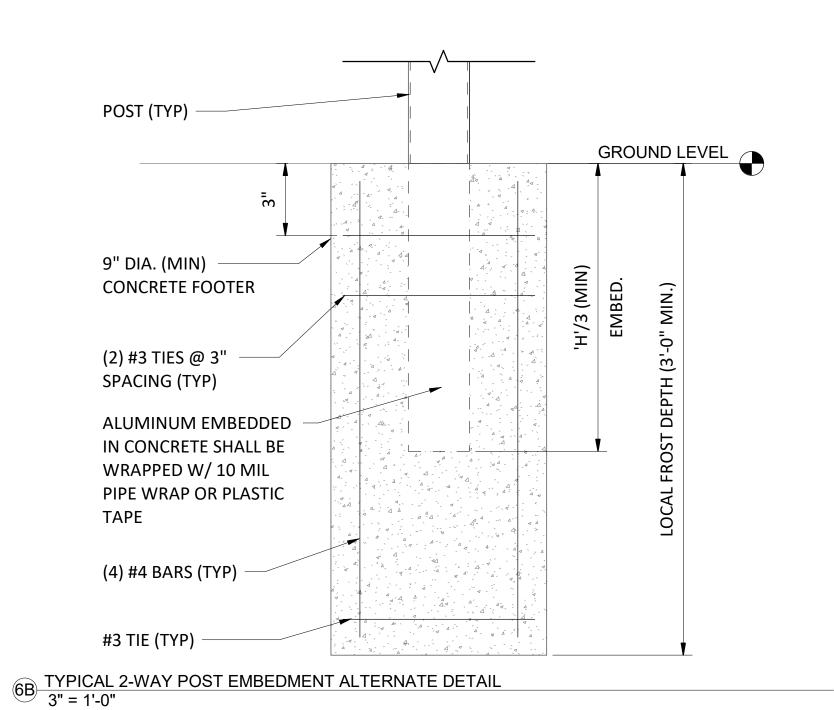
2 TYPICAL 2-WAY POST CONNECTION DETAIL (VERTICAL SLATS) 6" = 1'-0"





3 TYPICAL 2-WAY POST END CONNECTION DETAIL 6" = 1'-0"

5 TYPICAL TOP SLAT CONNECTION DETAIL (BOTTOM SIMILAR) 6" = 1'-0"



SLAT (KES15016/

TWO-WAY CORNER

POST (KESP2C6565EF)

(KESP1W6525) (TYP)

KES10016)

1-WAY POST

7/16" DIA. HOLE

CONCRETE EDGE

(2) FASTENERS PER -

4 TYPICAL SLAT CONNECTION DETAIL
3" = 1'-0"

(BY OTHERS)

(TYP)

(TYP)

(TYP)

1-WAY POST (2) #10 FASTENERS (TYP) (KESP1W6525) W/ (1) INFILL STRIP (KESINFS) (TYP) - SLAT (KES15016/KES10016) (TYP) #10 FASTENERS @ 6" TWO-WAY POST O.C. (MAX.) (TYP) (KESP2W6565) (TYP)

7 TYPICAL 2-WAY POST & 1 WAY RAIL TOP CONNECTION DETAIL (VERTICAL SLATS)
6" = 1'-0"



1. FINAL LAYOUT MAY VARY, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK.

4x4 POST HEIGHT & SPACING CHART - WITH STANDARD BASEPLATE					
POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE ¹			
6'-0"	4'-0"	45 PSF			
6'-0"	5'-0"	36 PSF			
6'-0"	6'-0"	30 PSF			
8'-0"	3'-0"	34 PSF			
8'-0"	4'-0"	25.5 PSF			
8'-0"	5'-0"	20.25 PSF			
8'-0"	6'-0"	17 PSF			
10'-0"	3'-0"	21.75 PSF			
10'-0"	4'-0"	16.25 PSF			
10'-0"	5'-0"	13 PSF			

- SLAT (KES15016/KES10016)

(TYP)

- 4" x 4" POST

(KESG100100) (TYP)

MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7.
 MAX POST SPACING BASED ON SOLID FENCING.

10'-0"

10.75 PSF

4x4 POST HEIGHT & SPACING CHART - WITH EMBEDDED POST				
POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE ¹		
6'-0"	4'-0"	80 PSF		
6'-0"	5'-0"	65 PSF		
6'-0"	6'-0"	55 PSF		
8'-0"	3'-0"	62 PSF		
8'-0"	4'-0"	46 PSF		
8'-0"	5'-0"	37 PSF		
8'-0"	6'-0"	31 PSF		
10'-0"	3'-0"	40 PSF		
10'-0"	4'-0"	30 PSF		
10'-0"	5'-0"	24 PSF		
10'-0"	6'-0"	20 PSF		

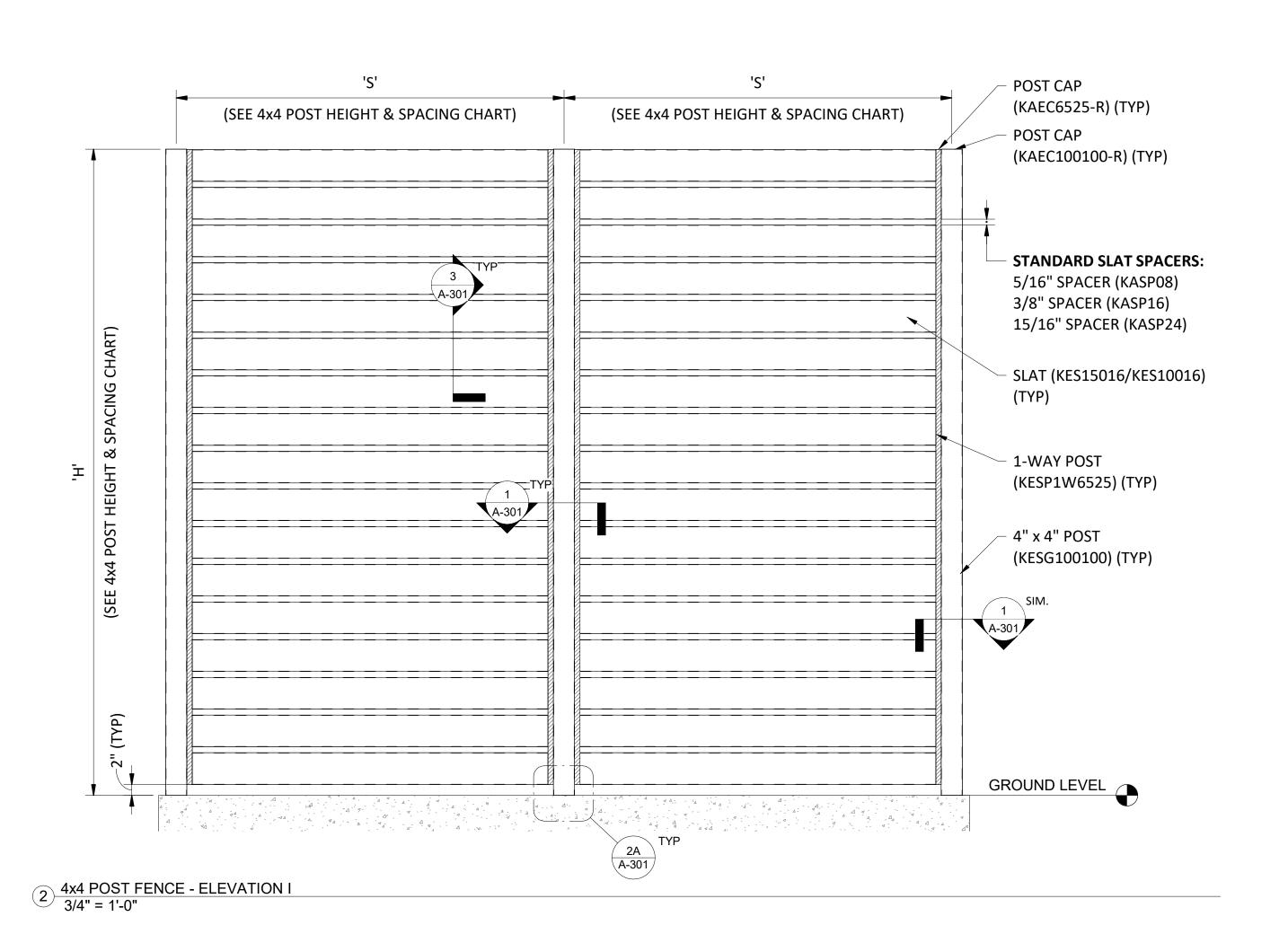
MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7.
 MAX POST SPACING BASED ON SOLID FENCING.

1 4x4 POST FENCE - PLAN VIEW 3/4" = 1'-0"

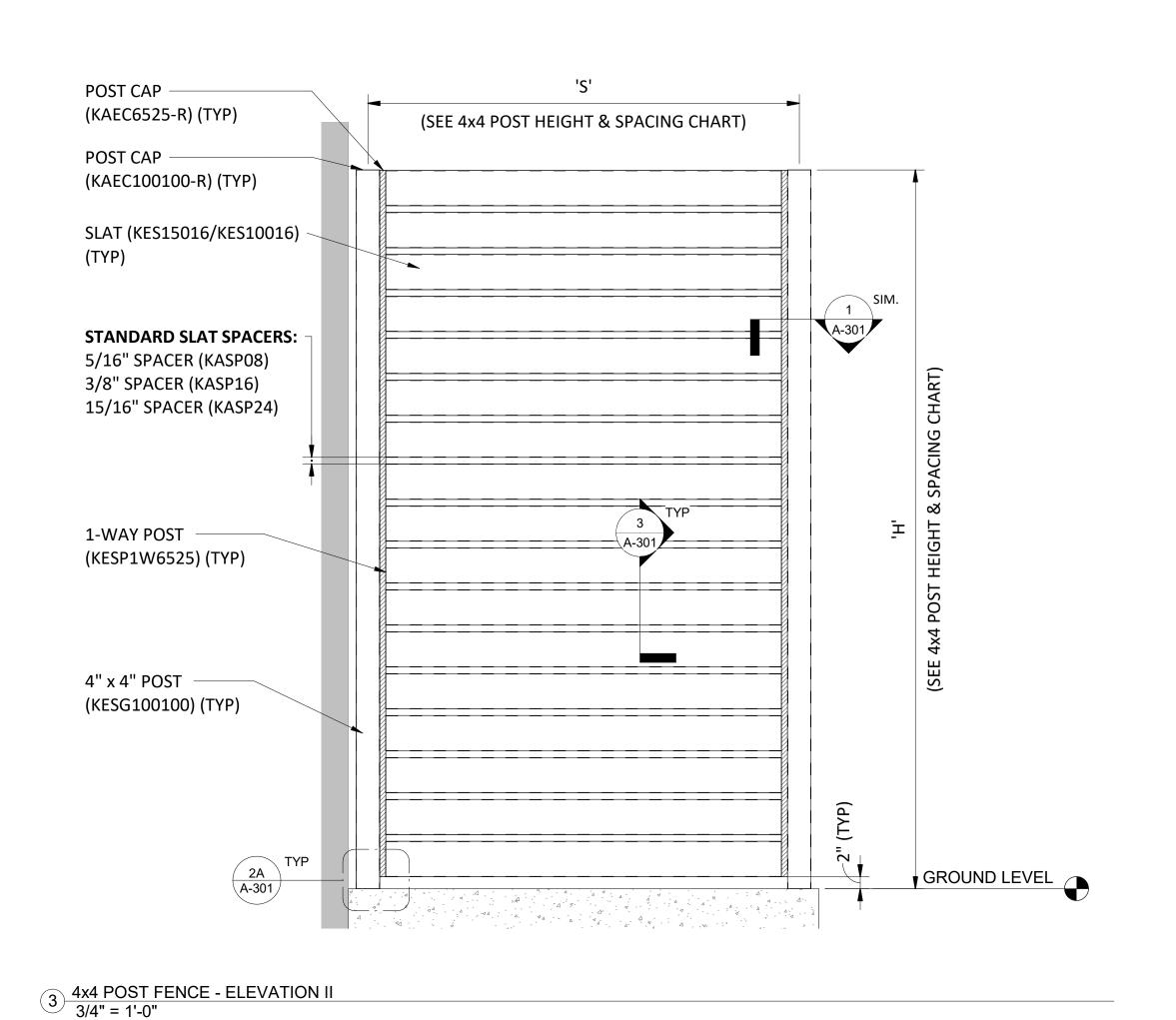
1-WAY POST

(SEE 4x4 POST HEIGHT & SPACING CHART)

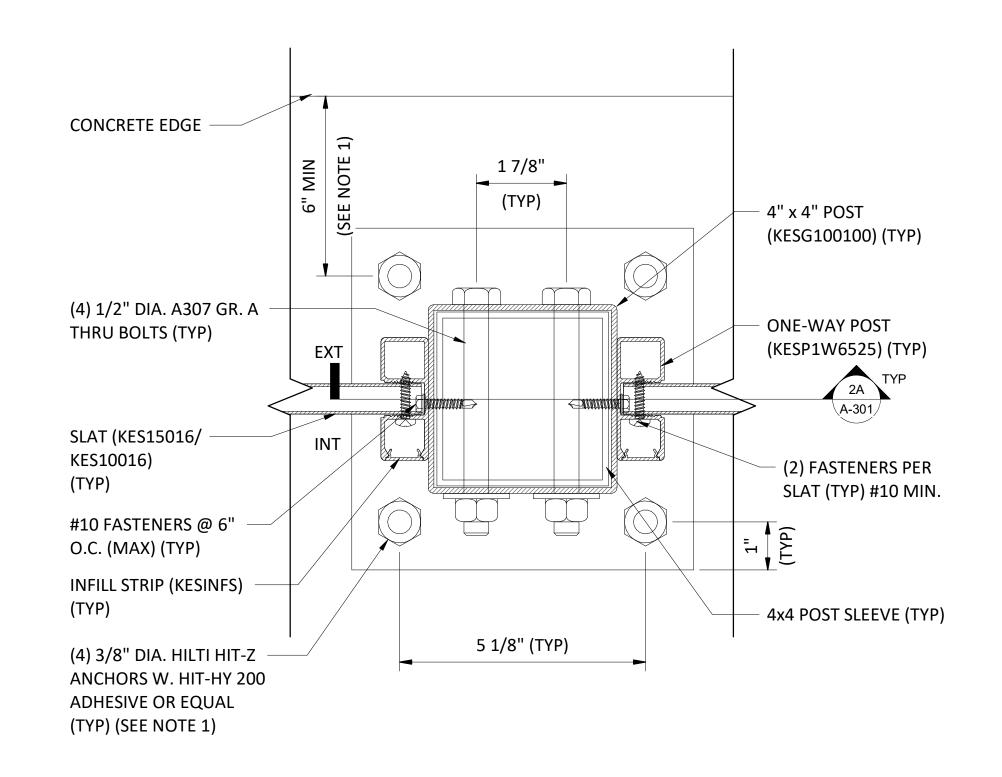
(KESP1W6525) (TYP)

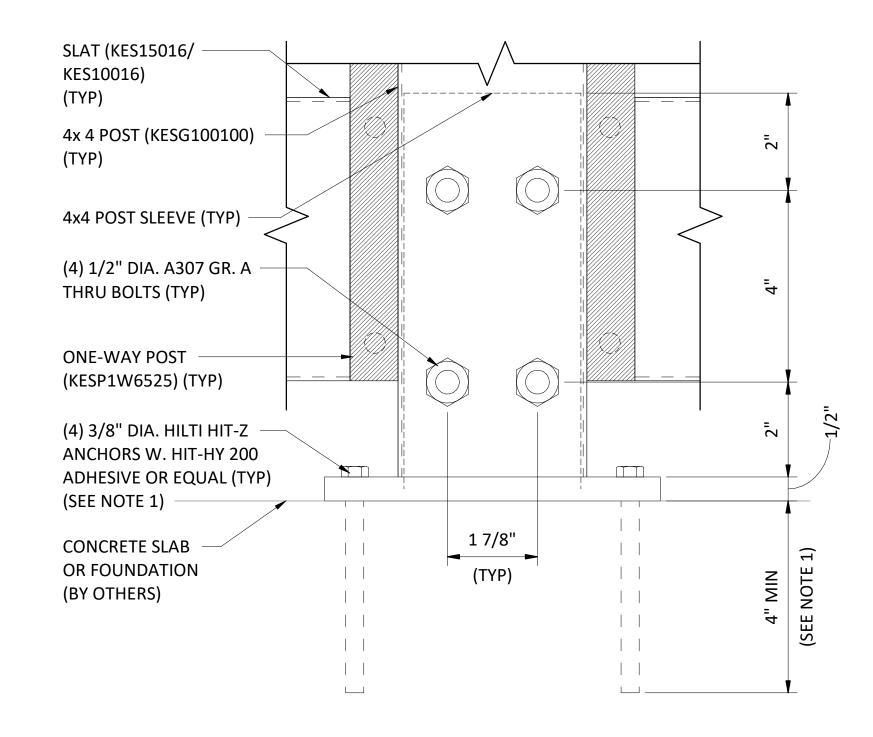


(SEE 4x4 POST HEIGHT & SPACING CHART)

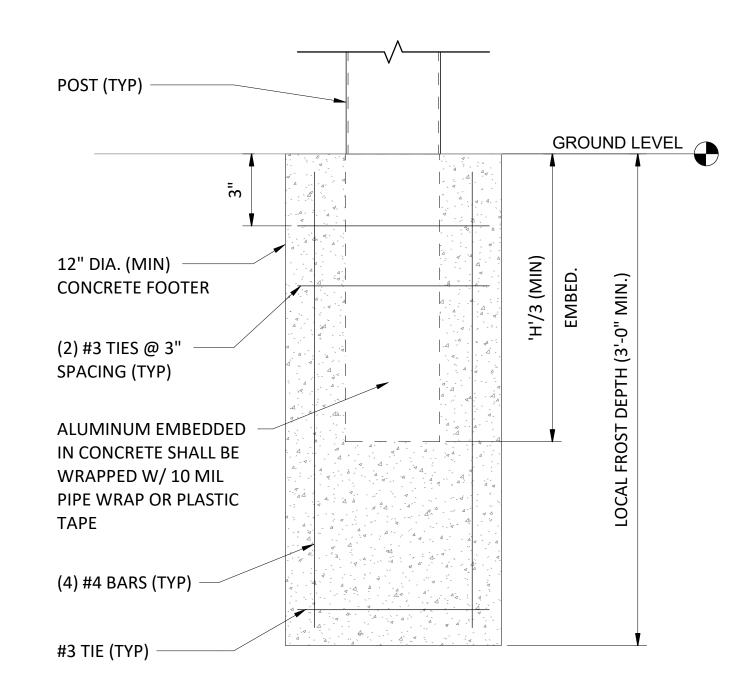


KNOTWOOD KNOTWOOD KNOTWOOD Stunning Aluminum 5555 W Roosevelt St Phoenix, AZ 85043 ISSUED FOR: ISSUED DATE: 05/15/2024 PLAN REVISIONS NO. DATE DESCRIPTION THE DESIGN CONCEPTS, IDEAS, AND ALL ASSOCIATED INFORMATION DEPICTED HEREIN IS THE SOLE PROPERTY OF PVE, LLC. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR BENEFIT OF THE PERSON(S) NAMED ABOVE AND FOR THE PROJECT NOTED ON THIS DOCUMENT. THE REPRODUCTION, ALTERATION, USE BY ANY THIRD PARTY, OR USE FOR ANY PURPOSE OTHER THAN SPECIFIED, WITHOUT WRITTEN CONSENT FROM PVE LLC, IS PROHIBITED AND A VIOLATION OF LAW. USE OF THIS DOCUMENT IS WITH FULL RESPONSIBILITY OF ALL INHERENT ERRORS OR OMISSIONS. ELECTRONIC COPIES OF THIS DOCUMENT SHALL BE SUBJECT TO THE SAME COPYRIGHT CONDITIONS AS STATED ABOVE. ELECTRONIC MEDIA MAY CONTAIN ERRORS OR SYSTEM INCOMPATIBILITIES. PVE, LLC. IN ISSUANCE OF THIS DOCUMENT, MAKES NO GUARANTEES AS TO THE ACCURACY OF THE ELECTRONIC DATA OR THE GENERAL WORKABILITY OF THIS DOCUMENT. PROJECT NAME: KNOTWOOD - GENERIC FENCE SHOP **DRAWINGS** PROJECT LOCATION: DRAWING NAME: HORIZONTAL FENCING 4X4 POST SEAL & SIGNATURE PROJECT NO: 2110314 DRAWN BY: CHECKED BY: DRAWING NO: A-300



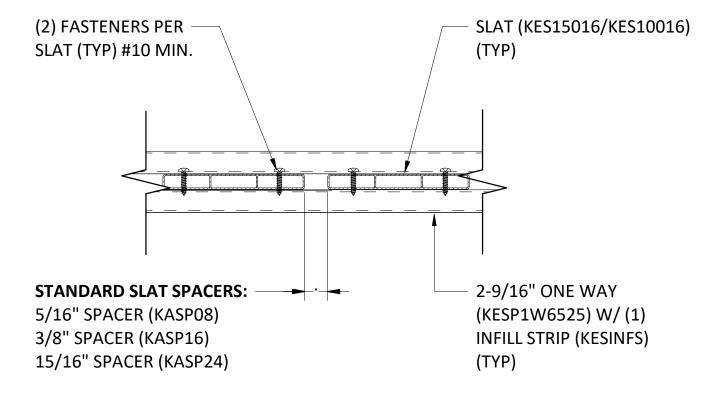


2A TYPICAL 4x4 POST ANCHOR DETAIL 6" = 1'-0"



2B TYPICAL 4x4 POST EMBEDMENT ALTERNATE DETAIL 3" = 1'-0"

1 TYPICAL ONE-WAY TO 4x4 POST CONNECTION DETAIL 6" = 1'-0"



3 TYPICAL SLAT CONNECTION DETAIL 3" = 1'-0"



ANCHORAGE DESIGN IS BASED ON

MAXIMUM MOMENT ALLOWED

ANCHORAGE CAN BE DESIGNED

FOR REDUCED LOADS BASED ON

BY BASEPLATE WITH 8" MIN.

THICK 4000 PSI CONCRETE.

LOCAL CONDITIONS BY EOR.

	_	Ocarining / war
		5555 W Roosevelt St
		Phoenix, AZ 85043
ISSUED FOR:		

ISSUED DATE: 05/15/2024

PLAN REVISIONS DESCRIPTION

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PROJECT NAME:

KNOTWOOD - GENERIC FENCE SHOP **DRAWINGS**

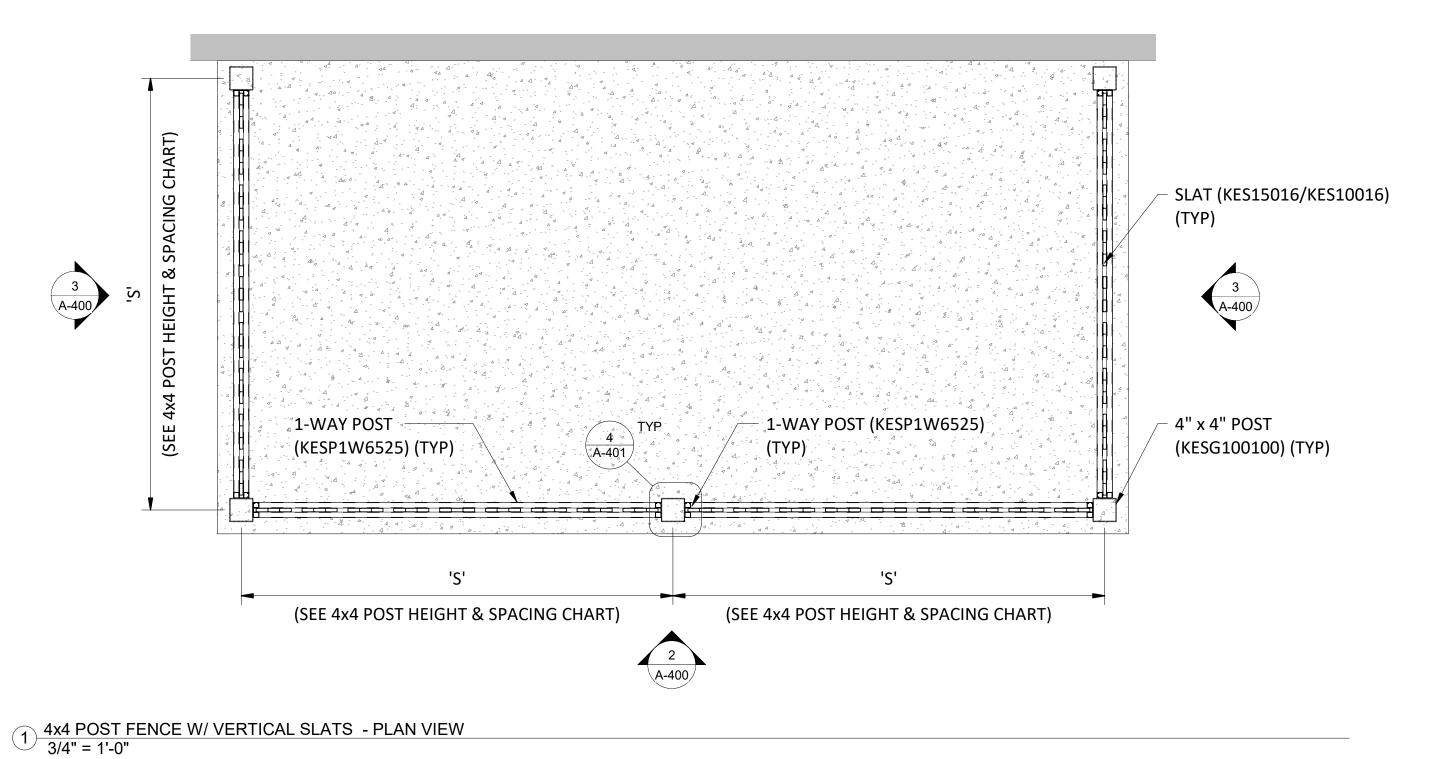
PROJECT LOCATION:

DRAWING NAME:

HORIZONTAL FENCING 4X4 POST DETAILS

SEAL & SIGNATURE DRAWN BY: CHECKED BY: DRAWING NO:

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4x4 POST HEIGHT & SPACING CHART - WITH STANDARD BASEPLATE				
POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE ¹		
6'-0"	4'-0"	45 PSF		
6'-0"	5'-0"	36 PSF		
6'-0"	6'-0"	30 PSF		
8'-0"	3'-0"	34 PSF		
8'-0"	4'-0"	25.5 PSF		
8'-0"	5'-0"	20.25 PSF		
8'-0"	6'-0"	17 PSF		
10'-0"	3'-0"	21.75 PSF		
10'-0"	4'-0"	16.25 PSF		
10'-0"	5'-0"	13 PSF		
10'-0"	6'-0"	10.75 PSF		

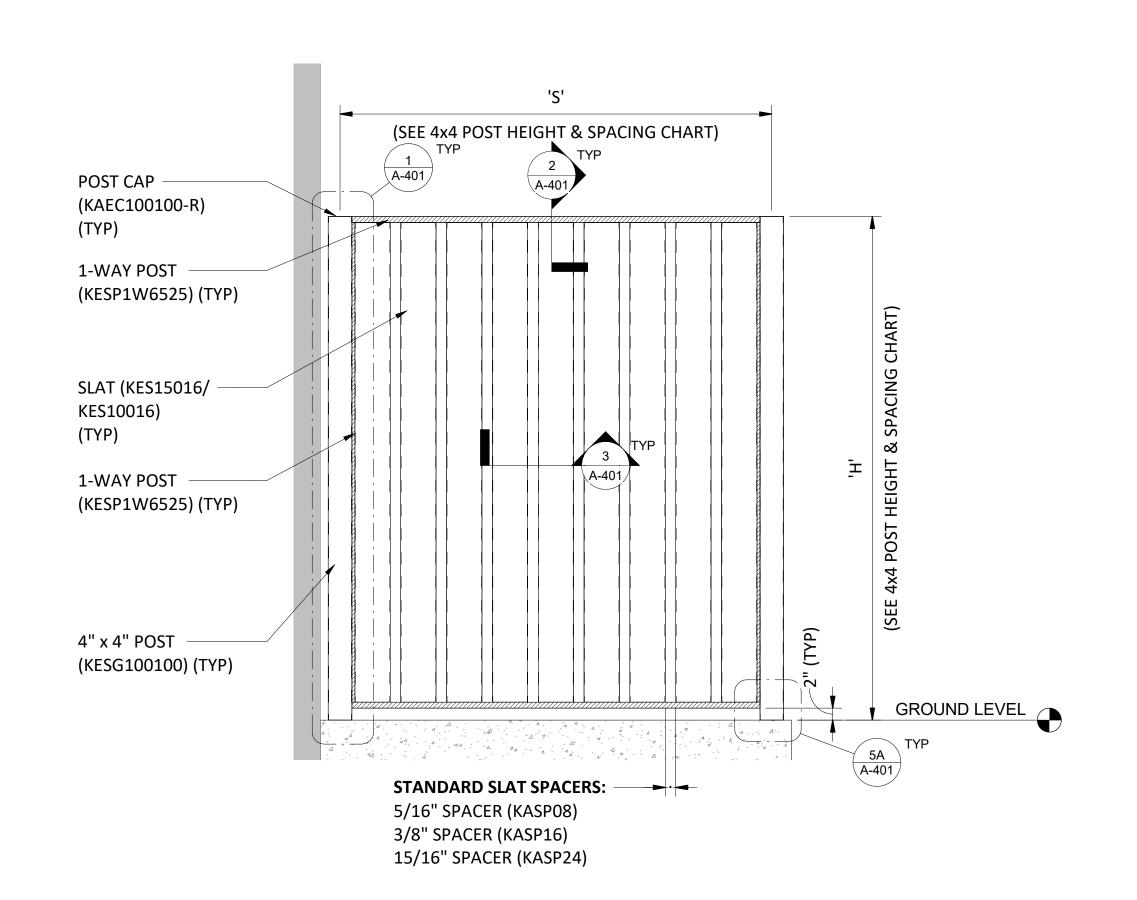
- 1. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7.
- 2. MAX POST SPACING BASED ON SOLID FENCING.

4x4 POST HEIGHT & SPACING CHART - WITH EMBEDDED POST				
POST HEIGHT 'H' (MAX)	POST SPACING 'S' (MAX) ²	MAX WIND PRESSURE ¹		
6'-0"	4'-0"	80 PSF		
6'-0"	5'-0"	65 PSF		
6'-0"	6'-0"	55 PSF		
8'-0"	3'-0"	62 PSF		
8'-0"	4'-0"	46 PSF		
8'-0"	5'-0"	37 PSF		
8'-0"	6'-0"	31 PSF		
10'-0"	3'-0"	40 PSF		
10'-0"	4'-0"	30 PSF		
10'-0"	5'-0"	24 PSF		
10'-0"	6'-0"	20 PSF		

- 1. MAXIMUM ULTIMATE WIND PRESSURE FOR FENCING AS DEFINED BY ASCE 7.
- 2. MAX POST SPACING BASED ON SOLID FENCING.

	'S'	'S'	
	(SEE 4x4 POST HEIGHT & SPACING CHART)	(SEE 4x4 POST HEIGHT & SPACING CHART)	
	TYP A-401	A-401 TYP	POST CAP (KAEC100100-R)
'H' (SEE 4x4 POST HEIGHT & SPACING CHART) (TYP)	3 A-401		(TYP) 1-WAY POST (KESP1W6525) (TYP) SLAT (KES15016/KES10016) (TYP) 4" x 4" POST (KESG100100) (TYP) 1-WAY POST (KESP1W6525) (TYP)
= 2			GROUND LEVEL
5/1 3/8	ANDARD SLAT SPACERS: 6" SPACER (KASP08) "SPACER (KASP16) "16" SPACER (KASP24)	TYP A-401	4

2 4x4 POST FENCE W/ VERTICAL SLATS - ELEVATION I
3/4" = 1'-0"



3 4x4 POST FENCE W/ VERTICAL SLATS - ELEVATION II
3/4" = 1'-0"



1. FINAL LAYOUT MAY VARY, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK.

PARED FOR:	
	KNOTWOOD [™] tunning Aluminum
	555 W Roosevelt St Phoenix, AZ 85043
JED FOR:	
JED DATE:	05/15/2024
PL	AN REVISIONS
DATE	DESCRIPTION
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DJECT NAME:	
KNOTWOOD	- GENERIC FENCE SHOP
	DRAWINGS
DJECT LOCATION:	
WING NAME:	

VERTICAL FENCING 4X4 POST

PROJECT NO:

DRAWN BY:

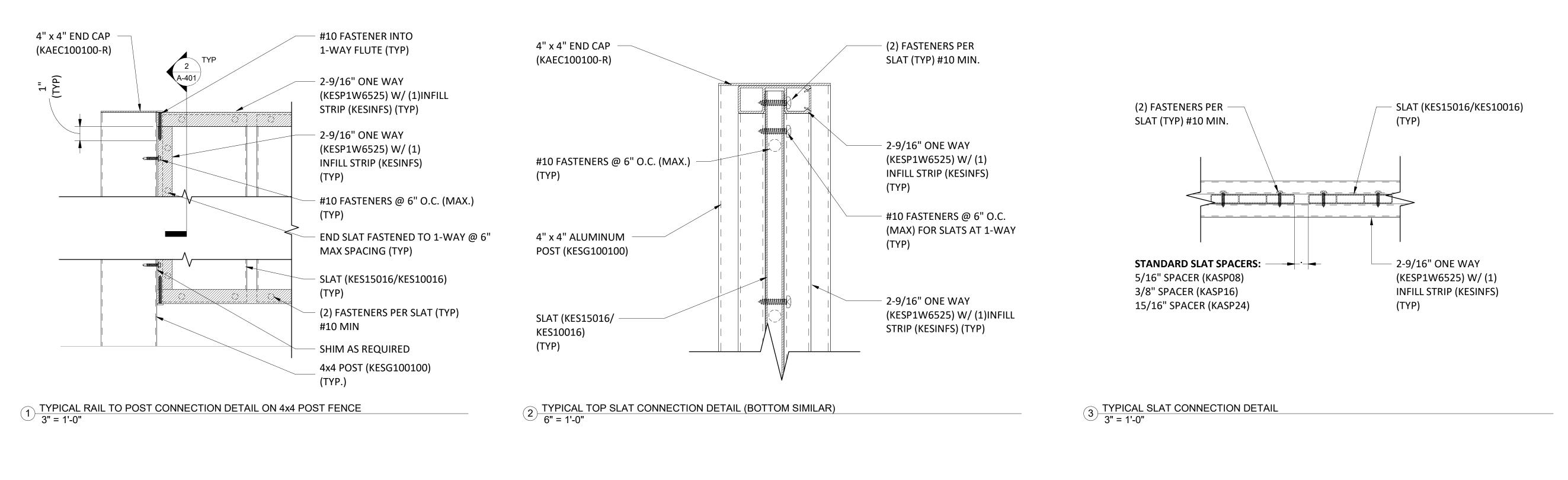
CHECKED BY:

DRAWING NO:

A-400

2110314

SEAL & SIGNATURE



SLAT (KES15016/

4x 4 POST (KESG100100)

4x4 POST SLEEVE (TYP)

2-9/16" ONE WAY

THRU BOLTS (TYP)

ONE-WAY POST

(SEE NOTE 1)

(BY OTHERS)

CONCRETE SLAB

(KESP1W6525) (TYP)

(4) 3/8" DIA. HILTI HIT-Z

ANCHORS W. HIT-HY 200

ADHESIVE OR EQUAL (TYP)

5A TYPICAL 4x4 POST ANCHOR DETAIL 6" = 1'-0"

1 7/8"

(TYP)

(KESP1W6525) (TYP)

(4) 1/2" DIA. A307 GR. A

KES10016)

(TYP)

(TYP)

- 4" x 4" POST

(KESG100100) (TYP)

2-9/16" ONE WAY

(KESP1W6525) (TYP)

(2) FASTENERS PER

SLAT (TYP) #10 MIN.

4x4 POST SLEEVE (TYP)

CONCRETE EDGE

(4) 1/2" DIA. A307 GR. A

THRU BOLTS (TYP)

SLAT (KES15016/

O.C. (MAX) (TYP)

#10 FASTENERS @ 6" $\,-\,$

INFILL STRIP (KESINFS)

(4) 3/8" DIA. HILTI HIT-Z

ADHESIVE OR EQUAL

(TYP) (SEE NOTE 1)

ANCHORS W. HIT-HY 200

4 TYPICAL 4x4 POST CONNECTION DETAIL 6" = 1'-0"

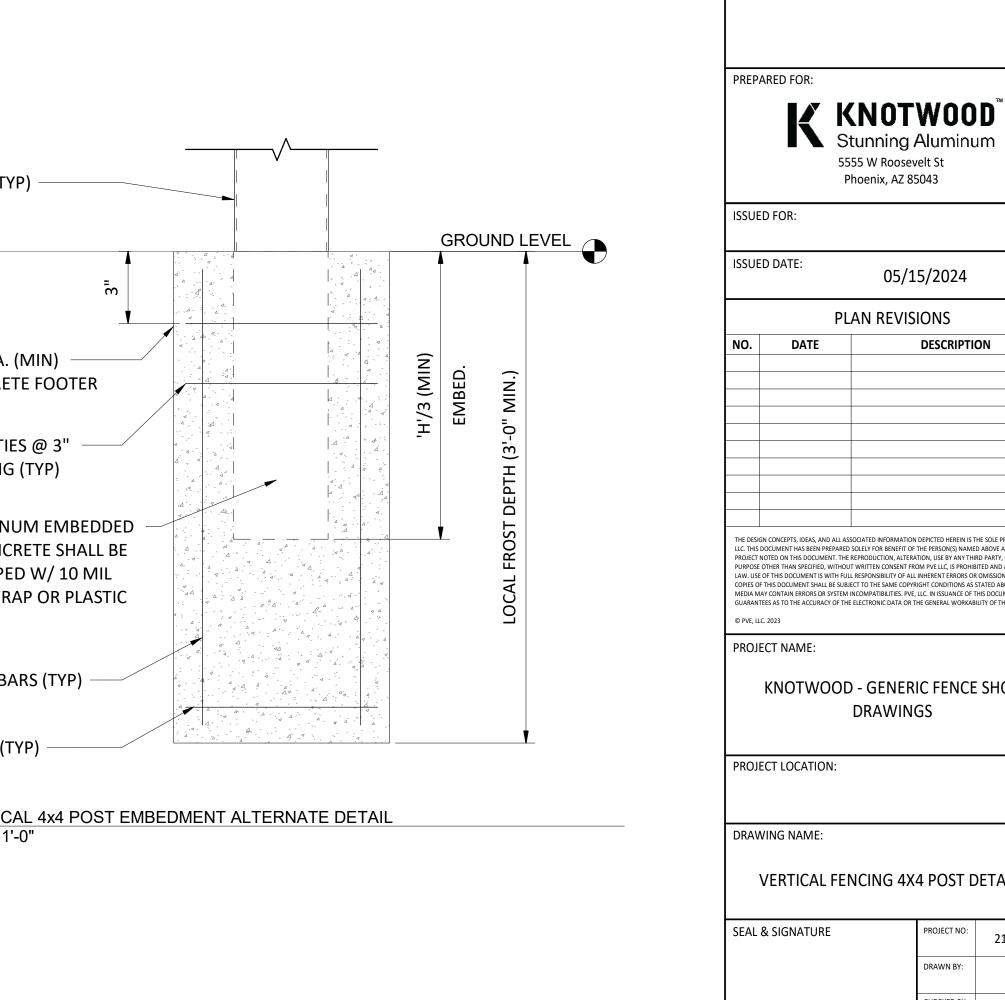
KES10016)

(TYP)

1 7/8"

(TYP)

5 1/8" (TYP)



ANCHORAGE DESIGN IS BASED ON MAXIMUM MOMENT ALLOWED

BY BASEPLATE WITH 8" MIN. THICK 4000 PSI CONCRETE.

LOCAL CONDITIONS BY EOR.

ANCHORAGE CAN BE DESIGNED

FOR REDUCED LOADS BASED ON

