

November 18, 2022

SOLICITATION ADDENDUM NO. 2

ITB 22-0019

New Generators- Fir Grove Elementary/Sexton Mountain Elementary

THE FOLLOWING CHANGES/ADDITIONS TO THE ABOVE CITED SOLICITATION ARE ANNOUNCED:

This Addendum modifies the Invitation to Bid (ITB) document(s) only to the extent indicated herein. All other areas not changed or otherwise modified by this Addendum shall remain in full force and effect. This Addendum is hereby made an integral part of the ITB document. Bidder must be responsive to any requirements of this Addendum as if the requirements were set forth in the ITB. Failure to do so may result in Bid rejection. See the ITB regarding requests for clarification or change and protests of this Addendum, and the deadlines for the foregoing.

This addendum is to be acknowledged in the space provided on the Bidder Certification form supplied in the solicitation document. Failure to acknowledge receipt of this addendum may be cause to reject your offer.

The closing date is:

November 22, 2022 at 2:00 PM Pacific Time

CLARIFICATIONS/QUESTIONS

CLARIFICATIONS:

1. Fir Grove- RELOCATE Panel 2LS2 from the MDF room to adjacent work room south of the MDF room. Panel in MDF room should be labeled 2LSS2.
2. Fir Grove- ADD Panel 4E1 is new and rated at 100A. Provide 1-30A -3P breaker and 3-20A-1P breakers.
3. Bidders Must Use the Revised Bid Schedule Attached

QUESTIONS:

Question: The lead times for the generators are nearly 1 year out. How do you anticipate this effecting the project?

Answer: **We understand that the lead times for the generators are substantial. The projects were designed so that bulk of the work can be completed, and the generator placed and connected once it arrives. The ATS's appear to fall in line with the summer construction.**

Question: Can you confirm that Pansheild is correct manufacturer for the louvers- (Sexton Mountain)?

12. PROVIDE AND INSTALL ARCHITECTURAL LOUVERED SCREEN. 5"X5"X72" HIGH VINYL POSTS WITH 60" WIDE X 72" HIGH COMPOSITE LOUVERED PANEL, SYSTEM TO BE ENGINEERED AND PROVIDED BY PANSHEILD. LOUVERS SHALL BE 6"X1" PROFILE. COLOR TO BE SELECTED BY OWNER.

Answer: **The manufacturer's name is, PalmSHIELD**

Question: Please confirm AIC rating for the Fir Grove 800A service and downstream equipment.

Answer: **I have done some calculations that the gear will be under 22,000 AIC with 3-75 KVA transformers on the pole. I will need to confirm this with PGE in the near future. See attached.**

Question: Note 13, sheet E1 for Fir Grove calls out a pad for a Garbage Dumpster. Is that in addition to the generator pad

or should that read for “Generator”? if it is in addition, can you provide the location?

Answer: **The concrete pad is for a generator and not garbage dumpsters.**

Question: There is a discrepancy on Barrier Posts for Fir Grove, Detail 4 shows 48” above grade, and Detail 6 calls out “72” above/48” below”. Please verify the correct height.

Answer: **Detail 5, Barrier Posts, on sheet E2 is correct. 48” above grade and 36” below grade.**

Question: Fir Grove: Sheet E1 Note 14 states 8’-0” high fence with slats. Sheet E2 Note 14 states 6’-0” high fence with posts. What is fence height? What is slat size?

Answer: **The fence will be 6’ tall. See attached spec section for more information.**

Question: Sexton Mnt: Sheet E1 Note 12 references Panshield. Can not find any product data or reference online for this. Please specify manufacturer, gauge, style, and gate size.

Answer: **See attached Sexton Mountain generator fence info.**

Question: Sexton Mnt: Sheet E1 detail 3 – Post Size & Height

Answer: **See attached Sexton Mountain generator fence info.**

End of Addendum

[Type here]



SECTION V – ATTACHMENTS
ATTACHMENT B
Solicitation No. ITB 22-0019

BID SCHEDULE

(Contractor)

TOTAL BASE BID: including the Work as defined in the Project Manual, Drawings and Addenda (if any), the TOTAL SUM OF:

_____ DOLLARS (\$_____)

Please separate the costs as follows, as the District tracks assets per school.

- **Fir Grove Elementary School** (Base Bid):

_____ DOLLARS (\$_____)

Add Alternate 1: Fencing/Gates

_____ DOLLARS (\$_____)

- **Sexton Mountain Elementary School** (Base Bid):

_____ DOLLARS (\$_____)

Add Alternate 1: Fencing/Gates

_____ DOLLARS (\$_____)

NOTE: Contractor will be required to develop a schedule of values for payment and accounting purposes prior to the initial request for payment in a form acceptable to the District.

*** Add additional sheets if you would like additional information added.

COMMERCIAL LEGEND
NEW PGE FACILITIES TO BE INSTALLED

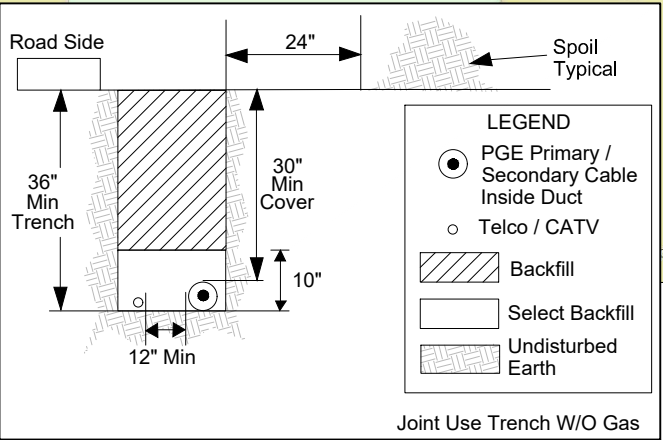
(UNLESS OTHERWISE SPECIFIED)

REMOVE FACILITIES

INSTALL 1-350 AL-QX UG SECONDARY IN 2 OF 3-3" PVC CONDUITS, PROVIDED & INSTALLED BY CUSTOMER

CONSTRUCTION NOTES: CMDEV

- CUSTOMER IS RESPONSIBLE FOR ALL TRENCH, CONDUIT, VAULTS, PADS AND ROAD CROSSINGS. ALL CONDUIT TO BE INSTALLED WITH 36 INCHES (MIN) COVER AT TOP OF CONDUIT FROM FINAL GRADE.
- A PGE STANDBY CREW IS REQUIRED FOR OPENING ALL ENERGIZED PGE VAULTS, JUNCTION BOXES, AND EQUIPMENT/FACILITIES, INCLUDING CONNECTION OR INSTALLATION OF CONDUITS AND PULL STRINGS. CALL SERVICE COORDINATION AT 503-323-6700 TO SCHEDULE A PGE STANDBY CREW.
- ALL PGE CONDUCTORS TO BE INSTALLED IN GRAY, SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN. 500 LBS. TEST). PGE TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. MAINTAIN 12 VERTICAL INCHES AND 24 HORIZONTAL INCHES CLEARANCE BETWEEN GAS AND OTHER UTILITIES. ALL ELBOWS 4 INCH & SMALLER TO BE 36 INCH RADIUS. ALL BENDS MUST BE FACTORY MADE. ALL ELBOWS LARGER THAN 4 INCH TO BE 60 INCH RADIUS. RIGID STEEL OR PGE APPROVED. FIBERGLASS BENDS ARE REQUIRED FOR RUNS OF 151 FEET OR LONGER, OR FOR ANY LENGTH RUN WITH MORE THAN 180 DEGREES IN BENDS. PVC SCHEDULE 40 BENDS ARE ACCEPTABLE FOR RUNS OF 150 FEET OR LESS. THE MAXIMUM TOTAL BENDS IN ANY CONDUIT RUN IS 270 DEGREES.
- DIRECTIONAL BORING REQUIREMENTS: BLACK HDPE (HIGH DENSITY POLYETHYLENE) DUCT OR SCHEDULE 40 PVC WITH A MECHANICAL CONNECTION (CERTA-LOK OR LIKE MECHANICAL CONNECTION PRODUCT) AS AN ALTERNATIVE TO HDPE DUCT. HDPE SHALL MEET THE REQUIREMENTS OF PGE SPECIFICATION L22501 (AVAILABLE ON REQUEST FROM PGE PROJECT MANAGER). FOR SAFETY REASONS THE DUCT SHALL BE BLACK WITH THREE EQUALLY SPACE EXTRUDED RED STRIPES (WHICH IS A SPECIFICATION REQUIREMENT). MANDREL TEST OF HDPE PIPE IS REQUIRED AFTER INSTALLATION WITH PGE INSPECTOR PRESENT.
- ALL PGE TRANSFORMERS TO BE INSTALLED 8 FEET (MIN) FROM ANY COMBUSTIBLE BUILDING, WALL OR OVERHANG AND 4 FEET (MIN) FROM ANY FIRE HYDRANT. PGE TRANSFORMERS MUST BE WITHIN 15 FEET OF A DRIVEABLE AREA. ALWAYS MAINTAIN 10 FEET CLEARANCE IN FRONT OF ALL TRANSFORMERS.
- TRANSFORMER PADS ARE TO BE SET SO THAT THE TOP IS 2 INCHES ABOVE FINAL GRADE. CONDUIT IS TO BE INSTALLED IN PAD AS INDICATED IN DETAIL AND TO EXTEND 1 INCH ABOVE THE PAD.
- STEEL BARRIER POSTS ARE REQUIRED AROUND TRANSFORMERS THAT ARE EXPOSED TO VEHICLES.
- ALL SWITCH VAULTS TO BE SET AT FINAL GRADE WITH 6 INCH GRAVEL BASE AND CONDUITS ALIGNED TO ENTER THE VAULT END LOWER KNOCKOUTS (TERM-A-DUCTS). (SEE DETAILS ON SKETCH)
- PGE TO BE NOTIFIED AND INSPECT ALL CONDUIT, VAULT AND PAD INSTALLATIONS BEFORE BACKFILL. ALL NEW VAULT & PAD LOCATIONS TO BE FIELD VERIFIED WITH PGE AND CUSTOMER REPRESENTATIVE.
- REFER TO PGE ELECTRICAL SERVICE REQUIREMENTS BOOK FOR FURTHER DETAILS & SPECIFIC REQUIREMENTS. LINK TO WWW.PORTLANDGENERAL.COM/REQBOOK
- DESIGN IS BASED ON STANDARD UNDERGROUND EQUIPMENT. NON-STANDARD UNDERGROUND EQUIPMENT MAY BE AN OPTION AT AN ADDITIONAL COST TO THE CUSTOMER.
- THE POINT OF DELIVERY AND DIVISION OF OWNERSHIP BETWEEN THE CUSTOMER AND PGE WILL BE AT THE LINE SIDE OF THE NEW CUSTOMER PROVIDED SWITCH GEAR.



CONTACT SERVICE COORDINATOR
FOR TRENCH AND CONDUIT INSPECTION PRIOR TO BACKFILL. PGE WILL NOT INSTALL WIRE UNTIL TRENCH IS 100% BACKFILLED.
SERVICE COORDINATOR
503-323-6700 OR 800-542-8818

ANY DEVIATION FROM THIS DESIGN MUST BE APPROVED BY PGE PROJECT MANAGER

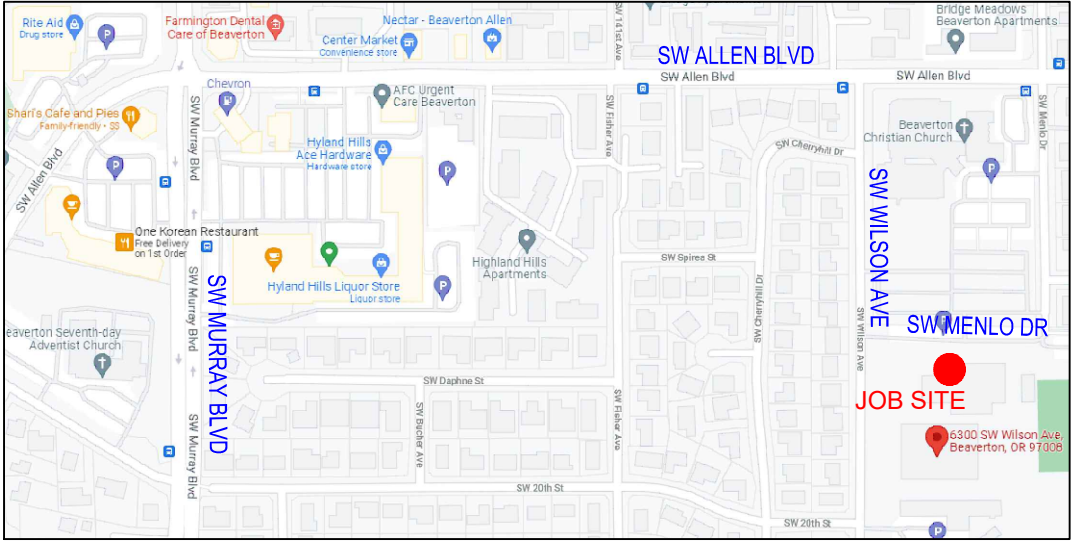
CALL 811 BEFORE YOU DIG


ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0001 THROUGH 952-001-0100. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE OREGON UTILITY NOTIFICATION CENTER ADMINISTRATION @ (503-232-1987)

TO REQUEST UTILITY LOCATES CALL THE OREGON UTILITY NOTIFICATION CENTER, 811 AT LEAST 2 BUSINESS DAYS PRIOR TO EXCAVATION.



Know what's below.
Call before you dig.



PGE CONSTRUCTION DRAWING				
DATE: 2/15/2022	SCALE: NTS	ACCOUNT: 1070001	AWO: 1000004599	JOB NO: M3100841
 BEAVERTON LINE CREW CENTER 2213 SW 153RD DR BEAVERTON, OR 97006	TITLE: Beaverton School Dist 48			
	CIRCUIT: TEKTRONIX-SOUTH			SIZE: 11X17
	LOCATION: 6300 SW Wilson Ave, BEAVERTON			
	DESCRIPTION: Relocate existing 800a 277/480v 3ph UG to Existing Commercial Service for school			
	COUNTY: WASHINGTON	SECTION (S): C11-21B	WORK WITH:	SHEET: 1 of 1
DESIGN BY: Manny Trujillo PHONE: (503) 672-5475 DRAWN BY: LANE WHITNEY				
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following:

- Contractor grade alkyd striping paint for existing asphalt and concrete pavements or restriping, Ennis paint or equal with approval by BSD Representative.
- Apply two zone marking coats of alkyd paint at eight dry mils per coat.
- Follow all paint manufacturer recommendation for adherence due to weather conditions.
- If placing over new asphalt/concrete a minimum of fourteen days cure time is required prior to any applications.

Minimum Dimensions:

- Standard parking stalls shall have 4" stripe
- Crosswalks shall be 8' wide (outside dimension) with a 1' thick line
- Mile per hour stencils shall have a minimum of 2'6" height with a 3" thick line
- All letter and number stencils shall be a minimum of 1' high, 2" thick
- Directional arrows shall be a minimum of 5' in length, 3' wide and 1' thick

F. ATHLETIC AND RECREATIONAL SURFACING

1. Playground Protective Surfacing

Unitary surfacing systems are preferred. Shop drawings shall include adequate drainage system, and cross section with playground equipment foundations to ensure adequate fall protection.

- a) SMARTE Turf is the basis of design for playground protective surfacing in new elementary school construction. Other products or systems may be reviewed by BSD to verify adequate warranty, maintainability, and shock attenuation.
- b) Poured-in-Place (PIP) fall protection is permitted only with district approval.
- c) Engineered Wood Fiber (EWF) is an acceptable surfacing material for existing playgrounds if unitary surfacing is not a viable option.
 - Ensure 12" minimum EWF coverage after settlement, including atop concrete foundations of playground equipment and concrete-mounted signs.
 - Provide adequate drainage below the EWF.
 - Concrete curbs are preferred but not required along the perimeter of the play area.
 - Non-compliant ramps into EWF shall be removed and replaced with ADA compliant curb ramps. Provide additional ramps as needed to reduce travel distance to areas of activity.

III. SITE IMPROVEMENTS

A. FENCES AND GATES

1. Chain Link Fences and Gates

a) Gates

Gates will comply with ASTM F1043 Group 1-C, ASTM F900, and will have commercial grade hardware.

- Access - Maintenance access shall have a minimum of a 10' opening. Any opening over 10' shall be a double gate. Pedestrian access shall be 24" with offset post to keep motorized vehicles off of school grounds.
- Latches - Commercial grade fork latches are to be installed on gates and must be able to accommodate District and Fire Department padlocks.
- Single gate latches shall be capable of retaining the gate in a closed position and shall have a provision for a padlock.

- Double gate latches shall be a drop rod or plunger bar arranged to engage the gate stop. Center drop rod or plunger bar shall not be used in areas with gravel. The latching devices shall have a provision for a padlock.
 - Hinges - The hinges shall be designed to permit the gate to swing a full 180 degrees. For safety considerations, avoid the use of slide gates when possible. When a sliding style gate is necessary, a cantilever style slide gate with the appropriate safety covers will be required.
 - Keepers – Provide keepers for each gate over 5' so that they do not swing unintentionally.
- b) Fence Fabric
- Fabric will have a knuckle/knuckle selvage. The standard diamond size will be 2". In high-stress applications, a 1 ½" diamond size will be used. Fabric ends shall occur only at terminal, corner, or pull posts. Attach fabric to terminal, corner, or pull posts with tension bars and tension bar clips with maximum 12" on center. Fasten fabric to line posts, top, brace, and bottom rails with tension wire with maximum 15" on center. Runs of fence more than 500' in length shall have at least one intermediate 3" outside diameter (O.D.) pull post with braces in two directions. Maximum distance between intermediate posts is 500'. Fabric shall be installed taut, on outside of posts and rails, uniformly 1" above ground level.
- Galvanized chain link fabric to be galvanized before weave and meet ASTM A 392 Class 1 (1.2 oz.) as manufactured by Pacific Fence & Wire Company or approved equal. The wire will have a minimum 9-gauge finish. In high-stress applications such as backstops 10' and below, track perimeters, trash enclosures, soccer practice areas, etc., the mesh will have a 6-gauge finish.
 - Vinyl coated chain link fabric shall meet ASTM F 668 Class 2B, Fused-Bonded, as manufactured by Pacific Fence & Wire Company or approved equal. Color will be black or as required by Authority Having Jurisdiction (AHJ). Wire will have a minimum of a 9-gauge core/8-gauge finish. Where applicable the mesh will have a 6-gauge core/5-gauge finish.
- c) Posts and Rail
- Top rails shall be installed through line post caps and spliced with 6" sleeves. Bottom rail or tension wire shall be installed uniformly 1" above finish grade.
 - Posts and rail 4" and under will meet ASTM F 1043 Group 1-C
 - Posts 6 5/8" and 8 5/8" O.D. will meet ASTM F 1043 Group 1-A
 - Black or Green posts will have a powder-coated finish over the galvanized pipe
 - Bollard posts will be 4" x 7' or 6 5/8" x 7' as specified and comply with the ASTM specifications as listed above.
- d) Post Footings
- Posts shall be set in concrete with fence post extending through bottom of concrete. Fences 6' and under will have:
- 36" x 10" Terminal/Gate post footings
 - 24" x 8" Line post footings
- e) Tension Wire
- Galvanized tension wire will have a 7-gauge finish and meet ASTM A 824 Type II and will be marcelled
 - Vinyl coated tension wire will have a 6-gauge finish/9-gauge core and will be Marcelled
 - Vinyl coated tension wire will meet ASTM F 1664 Class 2a
 - Galvanized hog rings will be 9-gauge Class III
 - Vinyl Coated hog rings will have a 9-gauge finish
 - Hog rings will be spaced at a minimum of 24"

f) Fence Fittings

- Standard Fence Fittings will meet ASTM F 626 (Domestic)
- Heavy Brace and Tension Bands 1/8" x 1" are required
- Fence ties are to be 11-gauge steel with frequency outlined in ASTM standard
- Vinyl coated fence ties will have a 9-gauge finish with an 11-gauge core wire
- Black and Green Fence fittings will be powder-coated

g) Chain Link Backstops

All baseball and softball back stops shall have the bottom 10' from the ground in 6-gauge steel. All end posts for back stops shall be set to a minimum 4' depth or greater so that backstops can tolerate strong winds and weight of ice.

2. Decorative Metal Fences and Gates

If ornamental fencing is used, it shall be powder coated tubular steel. No powder coated aluminum or aluminum chain link shall be used.

B. RETAINING WALLS

All retaining walls shall be treated at the time of installation to waterproof and aid in graffiti cleanup. Use Degussa Protectosil or equal as stated in the Division 9: Paint and Finishes.

For top cap installation, use Super Wet Type 3 (foaming) adhesive or equal.

Retaining wall plantings may include low maintenance dwarf plants. No deciduous trees shall be used. Provide a 12" wide concrete mow strip on low side of retaining walls, and at top of walls if turf is present.

C. SITE FURNISHINGS

1. Bicycle Racks

Bike racks shall be freestanding, heavy gauge steel with galvanized or rust proof powder coated finish. Bike racks shall be anchored for security and stability. Specify anchor kits when used.

2. Trash and Litter Receptacles

Trash receptacles shall be provided by the District, with the exception of large site (concrete) containers. Receptacles shall not be placed in mowing or landscaped areas.

3. Seating and Tables

Picnic tables and benches shall be placed on a concrete pad and secured with a locking mechanism. Concrete pads must be flush with turf. Extend concrete pads per ADA code past the outer portion of the table or bench. The total weight of the picnic table is not to exceed 350 pounds. Distribute required Accessible seating. Tables shall be one piece design made of perforated or expanded metal, preferably with a thick plastisol coating, or equivalent, on top. Frames for picnic tables shall be heavy duty steel with a rust resistant powder coated finish.

D. SITE SPECIALTIES

1. Metal Bollards

Provide bollards to protect utilities. Where bollards block access by service vehicles, the center bollard shall be sleeved to allow removal.

Bollards shall be 6" diameter concrete-filled galvanized steel pipe and set to a minimum depth of 3'-0". Removable bollards are to be 4" diameter maximum. Bollards shall be powder coated safety yellow. For safety reasons, bollards shall have no protrusions or handles, unless required by Fire

BSD
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ATLAS LOUVERED SWING GATES

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[CAD Drawings](#)

[Color Chart](#)

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PalmSHIELD ATLAS gate collection is the ultimate solution louvered architectural screening applications when appearance matters. Our ATLAS gates resemble bank vault doors with our 4" x 2" tubular outer framework encapsulating our 3" x 3" interior angle framework. This is an industrial gate design when aesthetics are critical. Supporting our Atlas industrial louvers, our Atlas gates must continue to provide solid air flow and no visibility. Unlike any other commercial and industrial gate manufacture, ATLAS commercial gates are sweep blasted and powder coated. We offer an endless number of colors.

PalmSHIELD ATLAS gates are custom designed and engineered to your tallest and widest commercial and industrial openings. We apply a series of engineering principles, accounting for the effects of the cantilevered load and wind load. With our double framework design and cable trussing system, no need to worry about future failed or sagging gates. PalmSHIELD has successfully built thousands of industrial louvered gates over the last thirty years.

PalmSHIELD understands commercial and industrial gates rely on the little things for continued operation. PalmSHIELD incorporates their own custom designed Gorilla hinges. These are not your ordinary hinges. Our industrial gate hinges utilize half inch thick bearing plates attached to a two inch wide stainless steel barrel. Our commercial gates are too good for unsightly padlocks and wearing slide bolts. Only PalmSHIELD offers an internal commercial locking system with our Locinox re-keyable stainless steel and brushed aluminum locks. To hold our gates in-place, PalmSHIELD incorporates a one inch schedule forty and padlock-able drop pin on every commercial and industrial gate leaf.

- Bank vault-like doors. Four inches wide. Smooth contemporary finish.
- Designed exclusively to support our architectural Atlas Louvers
- Powder coated all aluminum framework and louvers
- Professional internal locking systems and heavy-duty proprietary Gorilla hinges.

Widths: Standard widths are 10, 12, 16 & 20. However, we offer unlimited opening sizes based on our engineering.

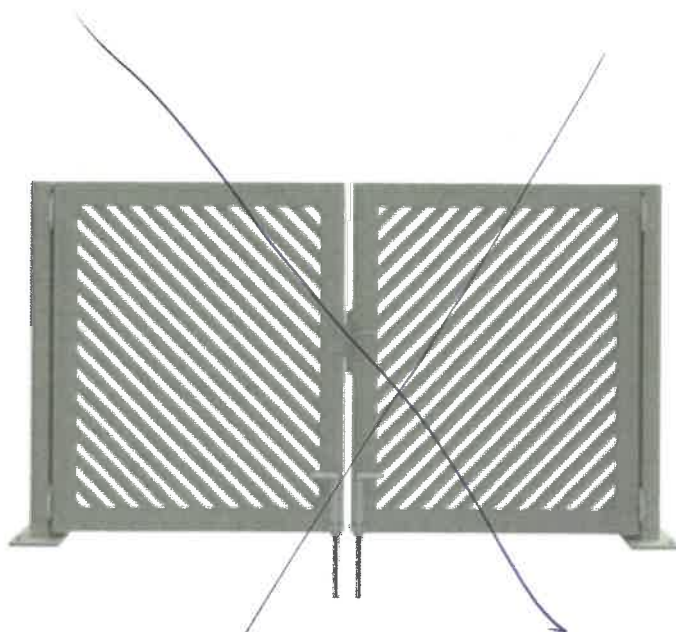
Heights: Standard heights are 6', 8', & 10'. However, we offer unlimited heights sizes based on our engineering.

Frame: 3" x 3" angle panel frame encased in 4" x 2" tubular gate frame.

PANEL INFILL OPTIONS



DIAGONAL



Looking for a more contemporary gate design? PalmSHIELD's diagonal louvered gates provide a real eye-catching appeal. When architects and designers are looking for that really unique design that may be the focal point, diagonal louvered gates are perfect for enclosing outdoor patios and cafes'.



PalmSHIELD horizontal louvered gates are perfect for providing excellent ventilation while keeping items out of sight from others. Horizontal louvered gates are custom fabricated to each application, allowing end users to select the amount of visibility and air flow by varying louver spacing.

Louver dimensions: 1/8" x 3"

Installed louver profile: 2" x 2.873"

Openness: 64%

VERTICAL

MINI LOUVER



Vertical louvered gates are very popular for architectural screen enclosures when designers and architects want to match an existing design. At any angle, vertical louvered gates have 100% coverage yet still maintain good air flow. The louvers may be adjusted to increase air flow and establish some visibility or to allow light to pass.

Louver dimensions: $1\frac{3}{4}" \times 1\frac{3}{4}"$ angle

Installed louver profile: $1\frac{1}{4}"$

Openness: 33%

SINGLE GATE
60" WIDE (S-O)



1" wide louvers as part of a perforated back panel. This is a perfect application requiring a thinner appearance and no visibility. The back panel provides screening from small intruders.

Design: Single extrusion combination of louvers and perforated back panel. Very little visibility as the louvers slightly overlap in combination with the perforated sheet.

Thickness: 1" wide

Width: 6" tall panels are interlocking to form a consistent louver design.

HARDWARE

LOCINOX LATCH

PalmSHIELD incorporates the Locinox FortyLock mortise lock into all of our gates with lockable drop rods.

PRODUCT DETAILS

PANIC BARS

PalmSHIELD utilizes DAC Industries, Inc. for their wide selection of panic bar options. You can find one that's perfect for your project with their reliable and versatile product lines.

BSD
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SEXTON MIN

ECONOMIC LOUVERS

Fluid | Simple | Budget Minded

PalmSHIELD's Mercury Louver architectural screening series includes aluminum, vinyl and composite horizontal planks. Aluminum and vinyl posts routed to receive the planks. This clean and simple architectural screening makes it easy for fast installations and field adjustable.

PalmSHIELD has partnered with Woodland composite series materials that provide a wide range of colors and consistency throughout the solid planks. The composite planks and aluminum columns are an exceptional choice when contrasting the look of architectural wood products in combination with a modern metal framework. The dark wood tones contrast well up against the powder coated framework. 6" wide planks are field installed, allowing for some flexibility in column spacing. All of our composite planks require no sanding, staining or painting. These composite vinyl based planks will resist stains, scratches and mold while holding the original color.

The Mercury aluminum plank and aluminum framework provide a more modern commercial design for architectural screening. The Mercury louver screening is available in a 6" wide plank overlapping providing 100% direct visual screening.

PalmSHIELD uses exclusively the Ply Gem Woodland Select planks. PlyGem uses the highest grade resins and extrusion processes. Ply Gem Woodland Select planks are the best in the vinyl industry. The vinyl planks are a 6" wide and come in a wide array of colors and textures. From Chestnut Brown to Weathered Cedar, the vinyl planks are an excellent combination with our aluminum or vinyl columns.

are engineered to meet all the UBC and IBC standards for wind loading.

Like all of our PalmSHIELD architectural screening products, Asia Commercial horizontal louvers are media blasted and powder coated, providing the best in the industry durable coatings. Asia Commercial is available in all of our standard colors and any customer requested color.

Asia Commercial horizontal louvers continue in the tradition of providing outstanding structural slide and swing gates with fully welded structural tube framework. Only PalmSHIELD provides this unique locking system matching the highest quality industrial door and security hardware which is internal and re-keyable.

All of PalmSHIELD's architectural screening products are fully shop fabricated, assembled, disassembled and packaged to assure all components fully align in the field. Asia Commercial horizontal louvers is no exception to this standard of quality and customer service. All of our gate hardware is fully assembled and installed prior to shipping.



Asia Commercial Horizontal

- 100% direct visual screening
- Louvered screening made easy and affordable
- Contemporary horizontal plank system
- A wide range of louver options: vinyl, composite and aluminum
- HVAC screens
- Outside dining
- Generators
- Hot tubs
- Transformers
- Employee parking
- Pool equipment
- Courtyards
- Gardens
- Walkways

PANEL INFILL OPTIONS

ASIA COMMERCIAL HORIZONTAL

Material: Aluminum

Louver dimensions: 1/8" x 3"

Installed louver profile: 2" x 2.873"

Louver spacing o.c.: 2.65"

Visibility: 100% direct visual screening.

Openness: 64%

Vertical supports: 2 1/4" x 7/8" x 1/8" channel

Intermediate supports: 1/8" x 3/4" flat bar. Not to exceed 24" O.K.

Structure: PalmSHIELD welded fully fabricated panels

Panel width: Unlimited. Standard is 48" to 60".

Panel height: Unlimited. Standard is up to 12'.

Post and Panel Colors: Unlimited RAL Colors

6'-0" ←

PalmSHIELD's Asia Commercial horizontal louvers is a clean and simple louver screening. Asia is our commercial version of our horizontal louver series for more budget minded projects but still incorporates our industry widest louver. Providing 100% direct visual screening and exceeding 60% openness, each louver is incorporated into a single panel. Asia Commercial horizontal louvers incorporate a wide vertical channel on each side of the louver, forming a fully fabricated panel. This unique louver system provides a clean appearance utilizing only louvers between each column.

Asia Commercial horizontal louvers utilizes a 1/8" x 3/4" aluminum flat bar not to exceed 24" on center to support the louvers between the vertical end

PalmSHIELD manufactures architectural screen systems, walls and fences. All of our louvered screen and mechanical equipment screening products include gates, railings, fence, rooftop and wall mounted options. Operating in an eighty thousand square foot facility, our team is seasoned and certified. We specialize in custom fabricated equipment screening products.

Our Company

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