



Pacific Power |
Rocky Mountain Power
825 NE Multnomah, Suite 1800
Portland, Oregon 97232

Electronically filed July 30, 2021

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, D.C. 20426

***Subject:* FERC Project No. P-935 (Merwin Hydroelectric Project)
License Article 413 and Shoreline Management Plan
Request for Consent to Issue Shoreline Use Permit
for Multi-Slip Boat Dock Expansions**

Dear Ms. Bose:

The purpose of this letter is to advise the Federal Energy Regulatory Commission (FERC) of an application PacifiCorp has received from an adjacent landowner, Lake Merwin Campers Hideaway (LMCH), who proposes to add the following components to its existing permitted structure currently in place on the shoreline of Merwin reservoir pursuant to an Existing Structure Shoreline Use Permit issued to them by PacifiCorp on September 29, 2017:

1. A 92' long by 6' wide gangway leading to a non-commercial 72-slip boat dock extension added to the existing 72-slip boat dock, which would create a structure containing a total of 144-boat slips, and

2. A non-commercial 20-slip boat dock extension to the existing 54-slip boat dock which would create a structure containing a total of 74-boat slips.

Together these components comprise the total proposed project ("Proposed Project"). PacifiCorp has reviewed LMCH's application packet and determined that PacifiCorp lacks license authority to authorize unilaterally the Proposed Project.

PacifiCorp finds that the Proposed Project would enhance the recreational values of the hydroelectric project and is intended to serve the 1500 recreation site memberships of the Lake Merwin Campers Hideaway community.

Under Article 413 (FERC's standard land use article) of the Merwin Hydroelectric Project FERC license, PacifiCorp is authorized to permit non-commercial piers, landings, boat docks or similar structures and facilities that can accommodate no more than 10 watercraft at a time without prior consent from the FERC. However, as LMCH proposes to construct and install non-commercial boat dock extensions containing a total of 72 slips and 20 slips, PacifiCorp does not have the authority under Article 413 to permit such use.

The security classification of each enclosed document is identified in the Enclosure Table.
If identified as *Privileged (CUI//PRIV)*, *Protected*, or *Critical Energy Infrastructure Information (CUI//CEII)*,
DO NOT RELEASE.

Accordingly, this letter shall serve as PacifiCorp's request for the FERC's review of LMCH's Proposed Project and for direction as to whether PacifiCorp is authorized: (1) to grant LMCH consent to pursue all necessary governmental approvals for the Proposed Project and; (2) to permit LMCH to construct and maintain the Proposed Project provided they receive all necessary governmental approvals and complies with the terms included in PacifiCorp's permit for the Proposed Project.

For your review, the original application packets submitted by LMCH for each multi-slip dock expansion are included with this letter, as are the supplemental plan drawings submitted by LMCH.

Should the FERC approve the Proposed Project, PacifiCorp would issue LMCH a Shoreline Use Permit, valid for a period of five (5) years and require renewal pursuant to the FERC approved Lewis River Shoreline Management Plan.

PacifiCorp seeks FERC's determination on the acceptability of the Proposed Project within 45 days so that PacifiCorp may take necessary steps to reject or further process the Proposed Project application.

Please feel free to contact Michael Lackner at 503-813-6143 if you have any questions concerning this matter.

Sincerely,

Mark Sturtevant

Mark Sturtevant (Jul 28, 2021 14:22 PDT)

Mark Sturtevant, Vice President
Renewable Resources

Encl:	Letter – Public
	20 Slip Multi Dock Expansion Application & Plans - Public
	72 Slip Multi Dock Expansion Application & Plans - Public

eFile:	Kimberly D. Bose, Secretary Via eLibrary at www.ferc.gov	eMail:	Lake Merwin Campers Hideaway
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SHORELINE USE PERMIT APPLICATION

Print or type all information requested below and return to PacifiCorp, Property Management, Hydro Team, 825 NE Multnomah Street., Suite 1700, Portland, OR 97232

1. Reservoir	Merwin	County	Clark
2. Applicant(s)	Lake Merwin Campers Hideaway		
	Name(s)	Day Telephone	Night Telephone
	Paul Golke	360-247-5589	
Mailing Address:	Street	City	State
	24706 NE Columbia Tie Rd.	Amboy	Wa.
			Zip
			98601
3. Address of Facility			
Mailing Address:	Street	City	State
	24706 NE Columbia Tie Rd.	Amboy	Wa.
			Zip
			98601
4. Full Legal Description of Location of Facility, (Applicant(s) must be legal owner(s) of property.)			
Attach Copy of the Deed.	Lot:	Block	Subdivision
			269749-000
Quarter/Quarter	Section	Township	Tax Parcel No.
	26,35	6 North	271642-000
USGS Lat/Long			
5. Proposed use as outlined on attached plans. <i>COMPLETE ALL BLANKS FOR PROPOSED USE(S). Provide additional details on separate sheets</i>			
Facility #1a) Size ___ ; b) Height ___ ; c) # Slips ___ ; d) Length of Walkway to Dock: ___ ft;			
e) Construction: ___ metal, ___ wood, ___ floating, ___ fixed; f) Floatation Brand			
g) Location: ___ feet along shoreline from (N/S/E/W) Applicant's side property line.			
Facility #2 a) Size ___ ; b) Height ___ ; c) # Slips ___ ; d) Length of Walkway to Dock			
e) Construction: ___ metal, ___ wood, ___ floating, ___ fixed; f) Floatation Brand			
g) Location: ___ feet along shoreline from (N/S/E/W) Applicant's side property line.			
f) Private Use <input type="checkbox"/> x Commercial Use <input type="checkbox"/>			
6. Three Drawings/Maps That Must Be Attached, Check List: ___ Plan ___ Profile ___ Property Plat			
7. Contractor (Name, Address, Telephone Number)			
Date		Signatures of Applicants	



LAKE MERWIN CAMPERS HIDEAWAY



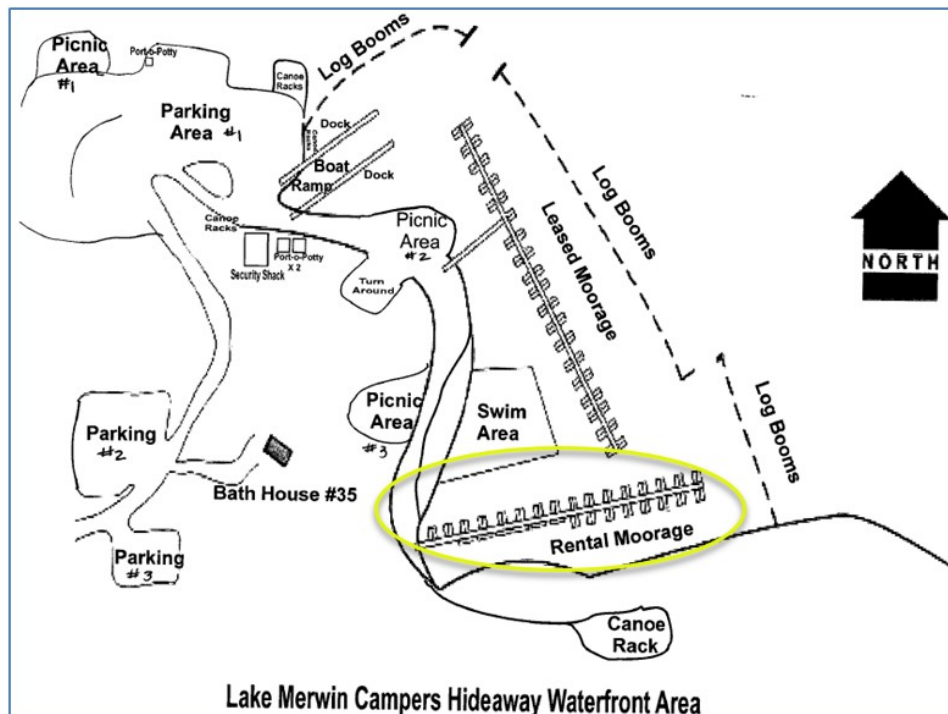
24706 NE Columbia Tie Rd, Amboy Wa, 98601 PH: (360) 247-5589

Permit Application

Lake Merwin Campers Hideaway – Rental Dock Expansion RE: Existing Shoreline Use Permit LSMP-0048

The intent of this document is to convey to PacifiCorp details of a project to be implemented by Lake Merwin Campers Hideaway. LMCH also requests PacifiCorp's advice as to any other jurisdictional agencies we must contact to request further approvals from specific to the listed projects.

The map below is marked-up to show the location of this project.



Cc:

Brian Cirelli, General Manager, campmanager@lmch.com

Bryan Sauerman, Facility Manager, facilities@lmch.com

Julie White & Jaimie Veith, Waterfront Committee Co-Chairs, waterfront@lmch.com

Rental Dock Expansion

This project entails adding 20 Rental Dock slips to the existing Rental Dock. The existing fishing platform would be removed prior to placing the additional slips, and positioned at the eastern (outer) end of the resulting dock system.

The current dock systems include a rental dock and a lease dock. This application does not address the lease dock expansion. The current rental dock has 54 slips. It is 420 feet long and 4-5 feet wide. The entire dock and walkway is self-floating, and is made of plastic rectangular sections, made by EZ Dock. An aluminum ramp is in place from the gravel path down to the dock.

The addition replicates the current rental dock design. It will add 20 slips. The shoreline is not affected by this addition.

This project includes the following:

- Move the current south log boom section eastward along the shoreline approximately 130 feet from its current location. The boom section would retain the current placement angle. New anchors and securing mechanisms would be applied.
- Place additional log(s) if required in the log boom section to close up the gap between the center boom section and the south log boom section. Additional anchors and securing mechanisms would be applied.
- Install new Rental Dock addition. The dock system would retain the current placement angle. New anchors and securing mechanisms would be applied to the addition.
- The fishing platform would be relocated to the east end of the new addition.
- Dock System Contractor: Evans Marine Solutions
2103 46th Ave. NE
Olympia, Wa. 98506
evansmarinesolutions@gmail.com
www.evansmarinesolution.com
360-480-6117



Existing Dock Systems



Proposed Dock Systems View (includes lease dock exp.)

The dock sections are made from polyethylene

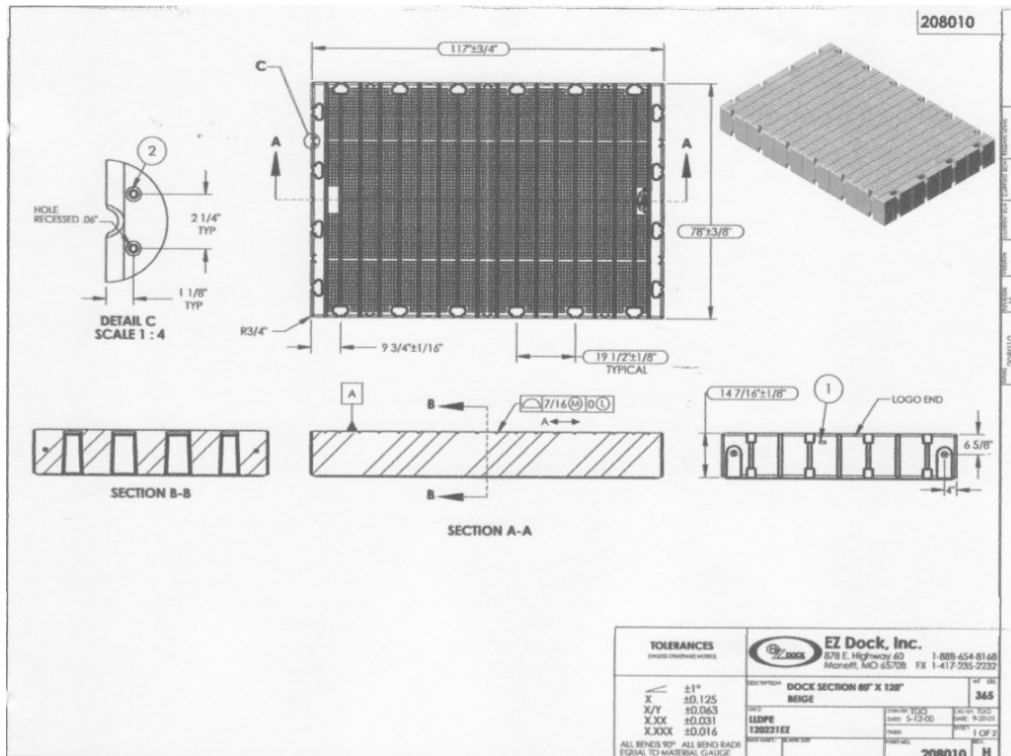
Couplers are recycled rubber

The 3/8" galvanized chain has a 20,000lb minimum breaking strength

The concrete wedge anchors are 1000lbs each

The deadweight brackets are 1/4" galvanized steel and have a holding strength of 52,000lbs each

The cross anchoring method runs under the dock and out to increase the holding capacity

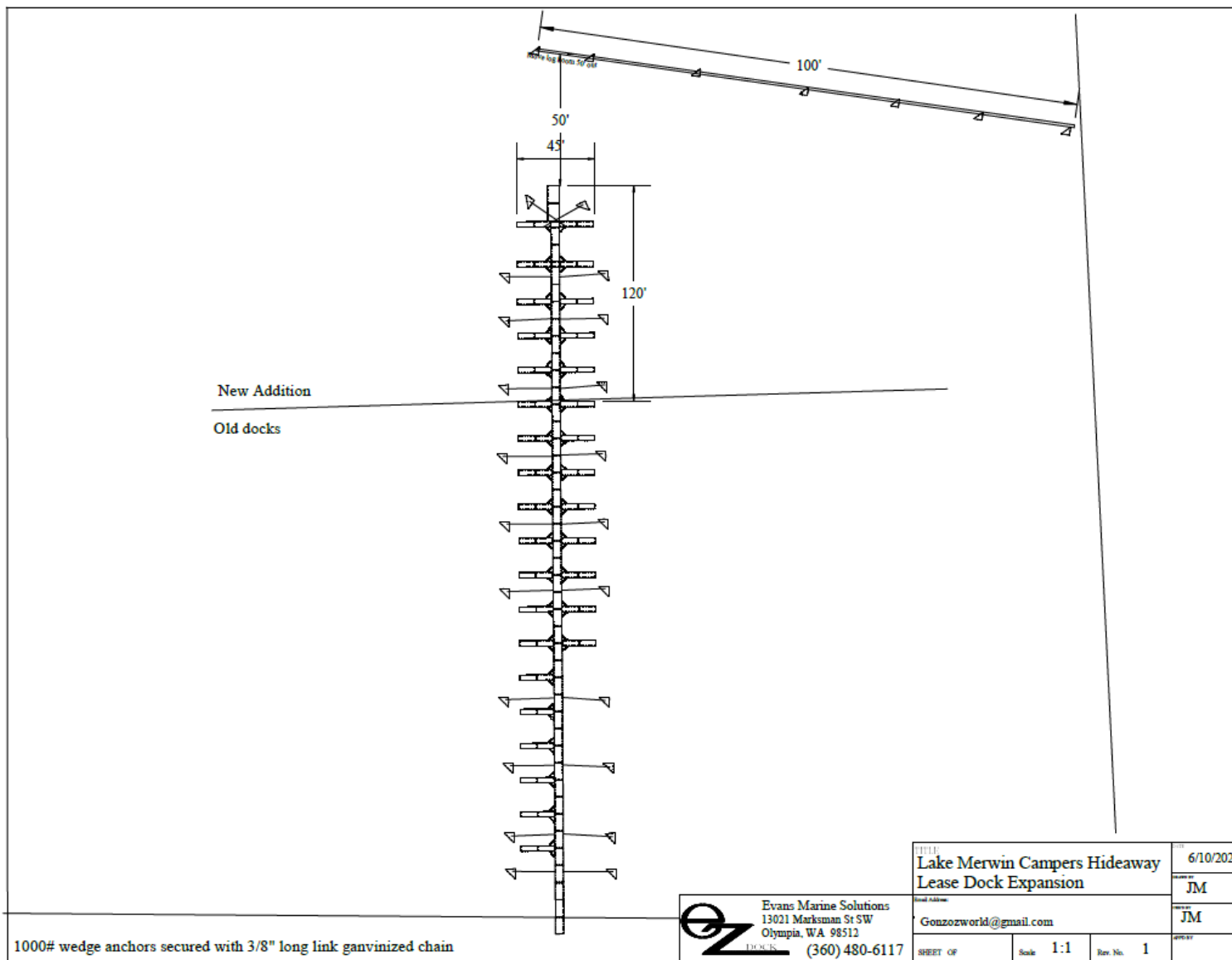


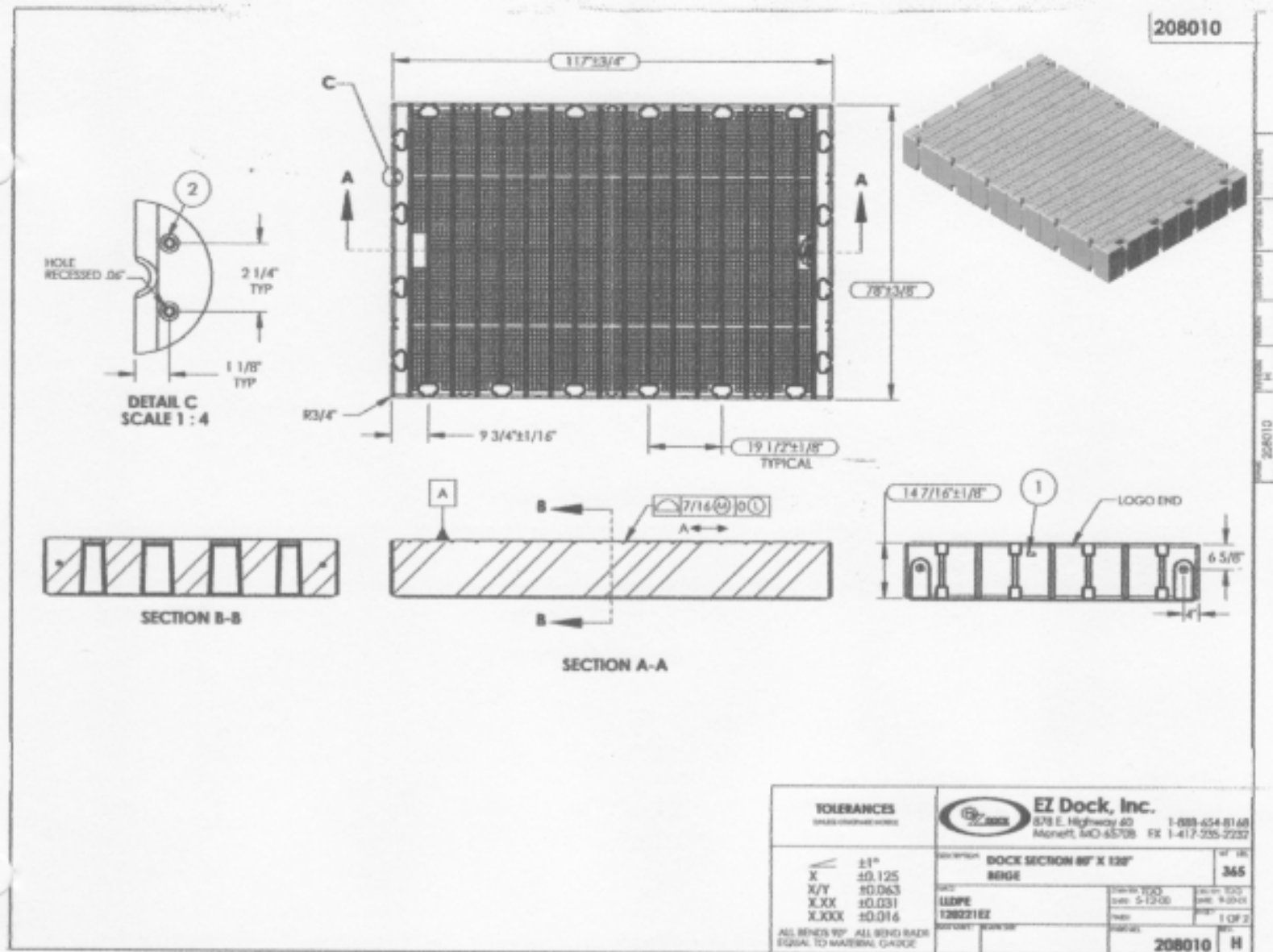


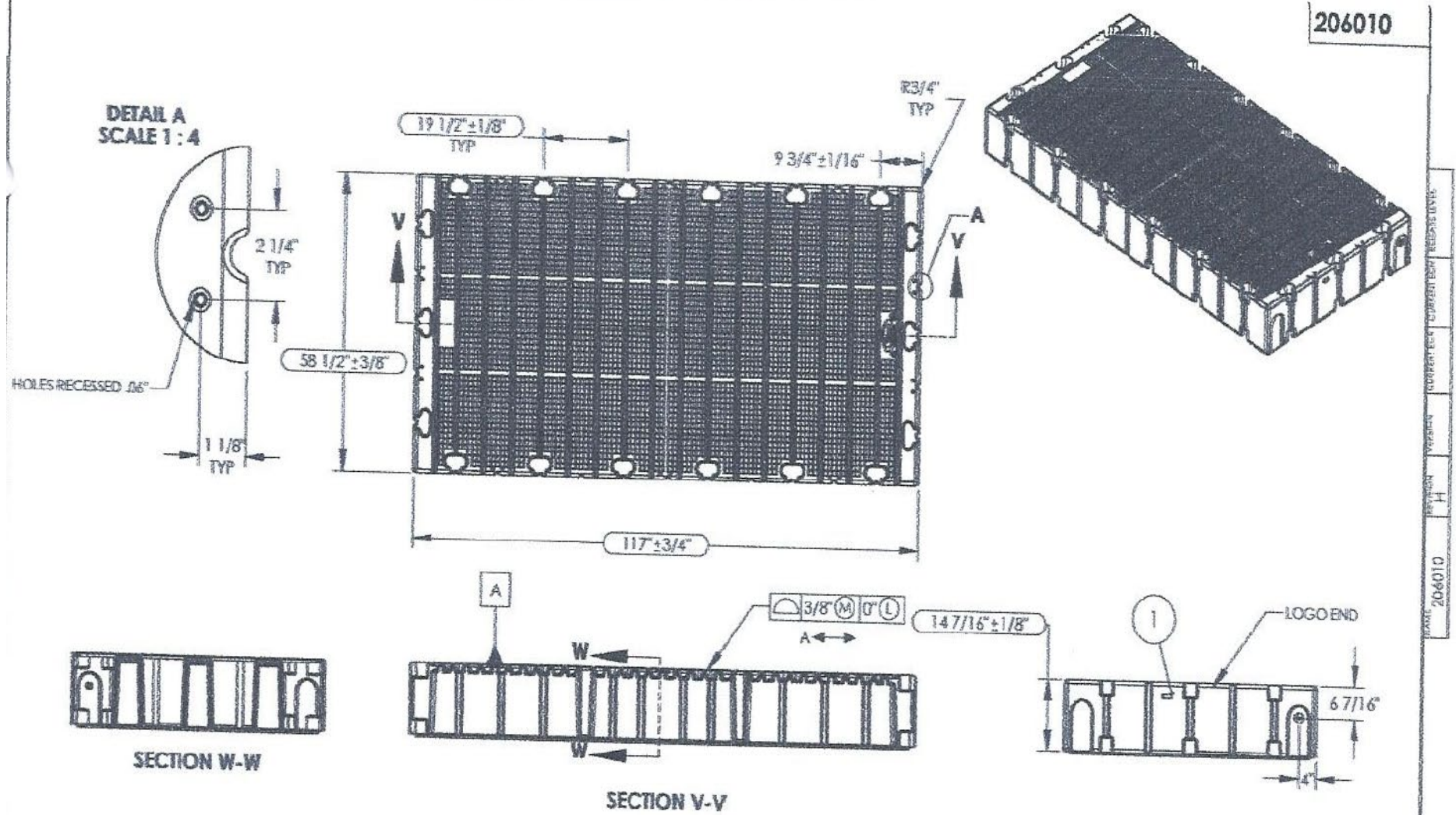
LAKE MERWIN CAMPERS HIDEAWAY LEASE DOCK EXPANSION

Evans Marine Solutions
Olympia, Washington

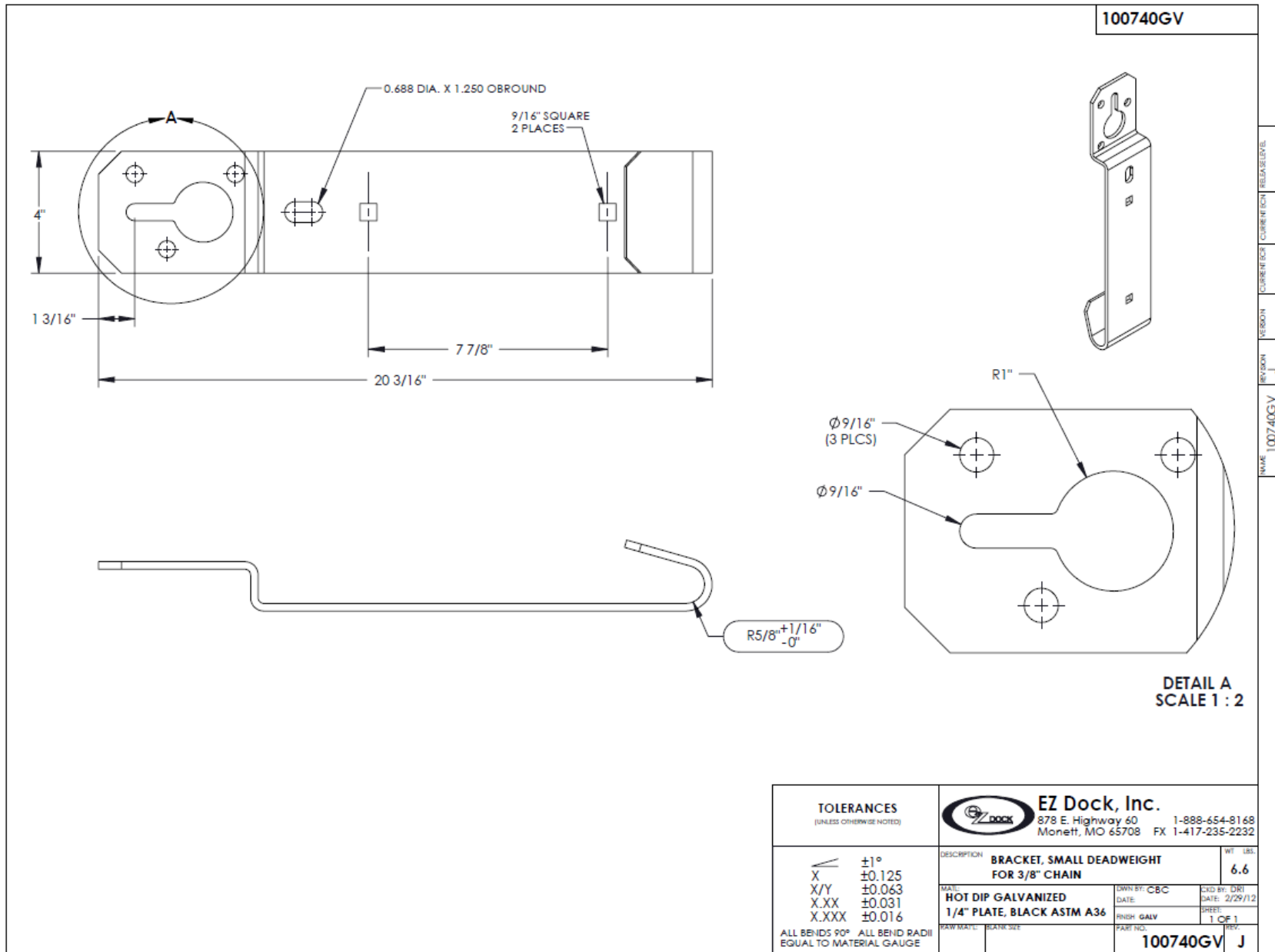
Justin Moore
evansmarinesolutions@gmail.com





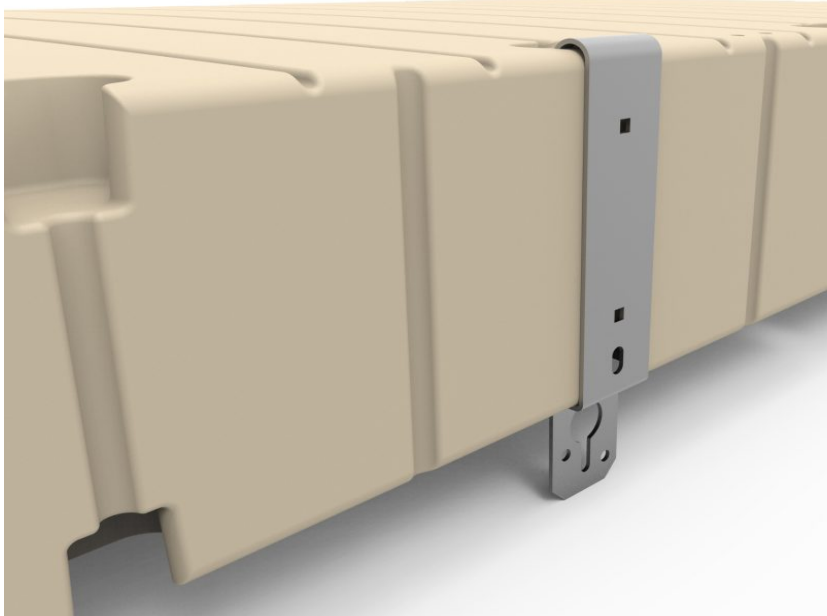


60" EZ Dock Section Drawing



NAME 100740GV J
REVISON
CURRENT CODE
CURRENT CODE
RELEASE LEVEL

Deadweight Bracket Drawing; connection from EZ Dock to anchor



Deadweight bracket connection to EZ Dock



Lease Dock Expansion at LMCH

Materials:

Ez Dock
60x10 (10)
40x10 (20)
Gussets (20)

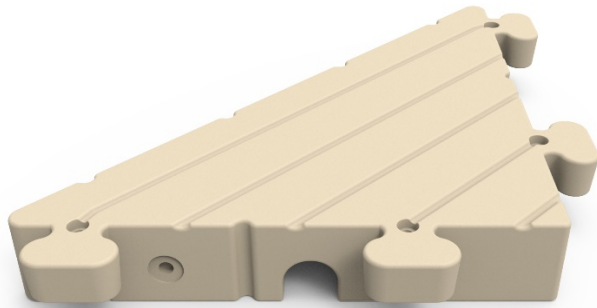
3/8" LL Galvanized chain (1200 ft)

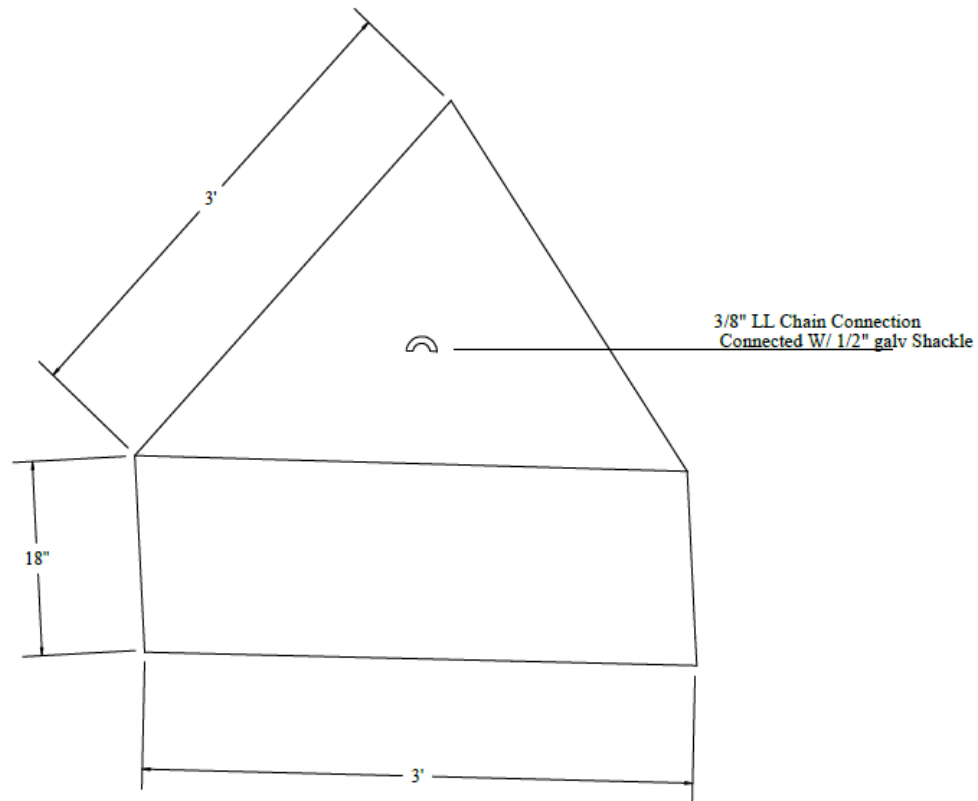
1000Lb Concrete wedge anchors (15)




EZ Dock Recycled Rubber Coupler 3300LBS holding capacity each.

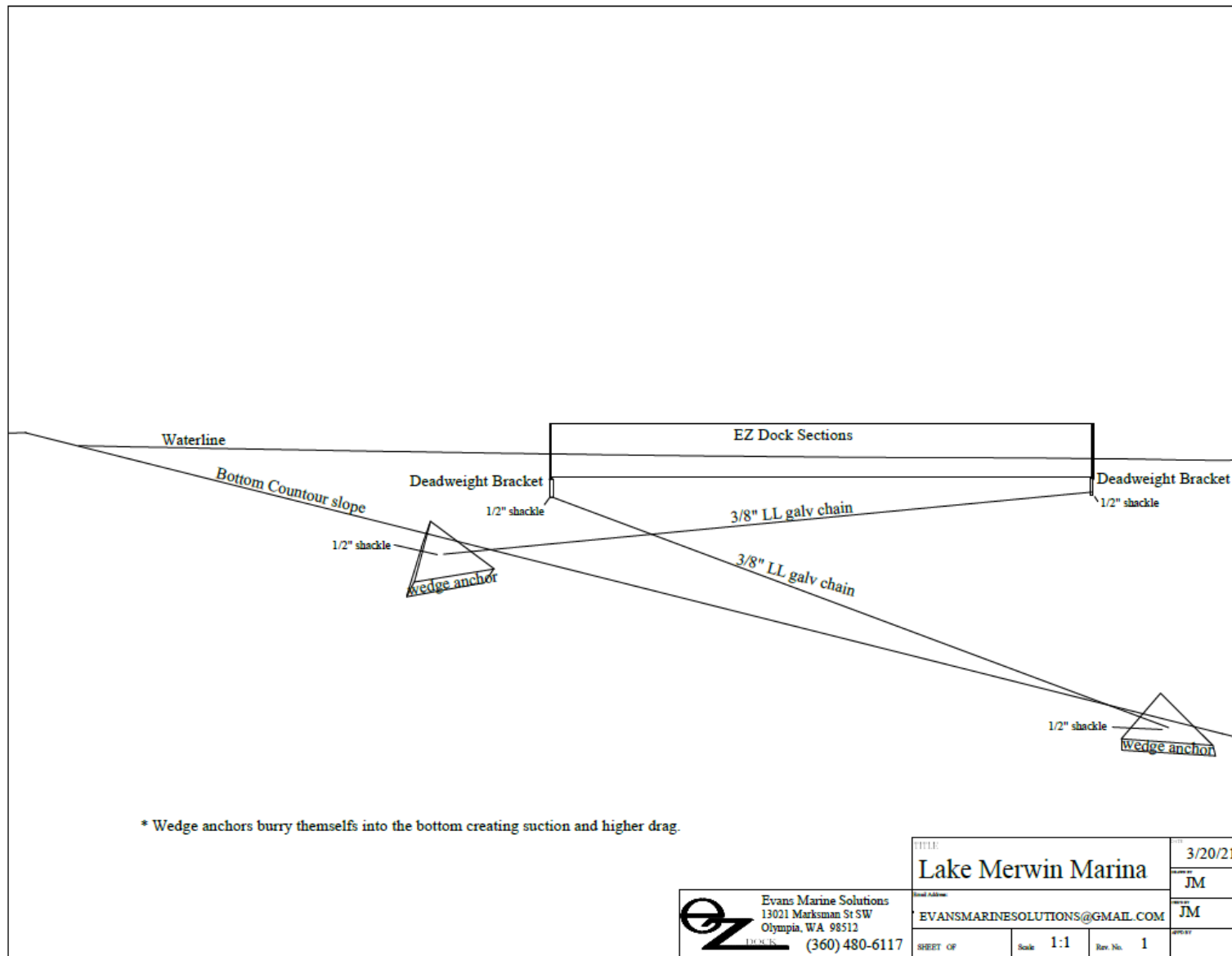
EZ Dock Corner Gusset used in boat slips provide stiffness to EZ Dock system.






 Evans Marine Solutions
 13021 Marksman St Sw
 Olympia, WA 98512
 (360) 480-6117

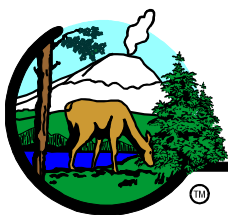
TITLE:		DATE:
1000# Wedge Anchor		3/20/21
DESIGNED BY:		JM
CHECKED BY:		JM
SHEET OF		REVISED
Scale	1:1	Rev. No. 1



SHORELINE USE PERMIT APPLICATION

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1. Reservoir	Merwin	County	Clark
2. Applicant(s)	Lake Merwin Campers Hideaway		
	Name(s)	Day Telephone	Night Telephone
	Paul Golke	360-247-5589	
Mailing Address:	Street	City	State
	24706 NE Columbia Tie Rd.	Amboy	Wa.
			Zip
			98601
3. Address of Facility			
Mailing Address:	Street	City	State
	24706 NE Columbia Tie Rd.	Amboy	Wa.
			Zip
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4. Full Legal Description of Location of Facility, (Applicant(s) must be legal owner(s) of property.)			
Attach Copy of the Deed.	Lot:	Block	Subdivision
			269749-000
Quarter/Quarter	Section	Township	Tax Parcel No.
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USGS Lat/Long			
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Facility #1a) Size ___ b) Height ___ ; c) # Slips ___ ; d) Length of Walkway to Dock: ___ ft;			
e) Construction: ___ metal, ___ wood, ___ floating, ___ fixed; f) Floatation Brand			
g) Location: ___ feet along shoreline from (N/S/E/W) Applicant's side property line.			
Facility #2 a) Size ___ ; b) Height ___ ; c) # Slips ___ ; d) Length of Walkway to Dock			
e) Construction: ___ metal, ___ wood, ___ floating, ___ fixed; f) Floatation Brand			
g) Location: ___ feet along shoreline from (N/S/E/W) Applicant's side property line.			
f) Private Use <input type="checkbox"/> x Commercial Use <input type="checkbox"/>			
6. Three Drawings/Maps That Must Be Attached, Check List: ___ Plan ___ Profile ___ Property Plat			
7. Contractor (Name, Address, Telephone Number)			
Date		Signatures of Applicants	



LAKE MERWIN CAMPERS HIDEAWAY

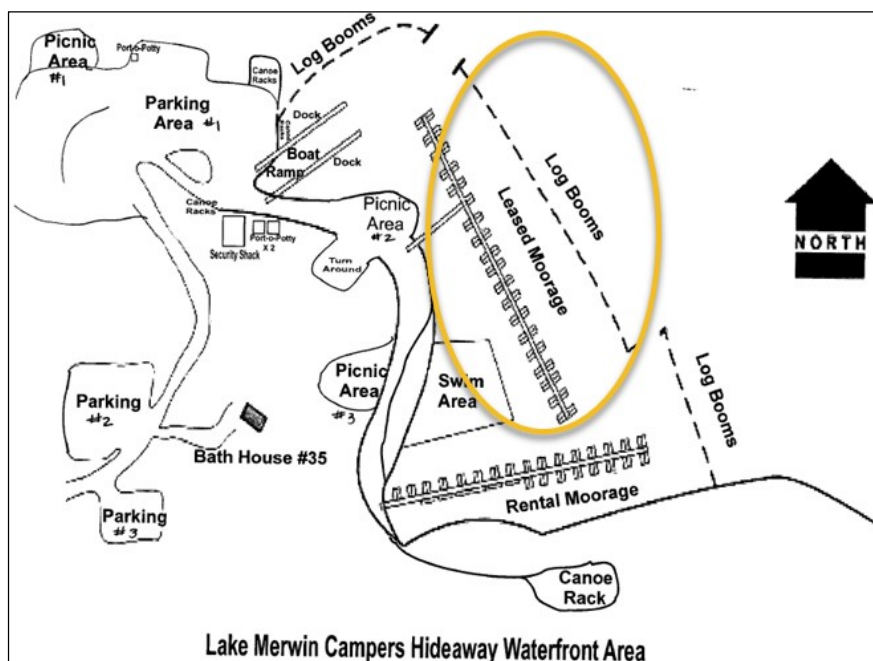
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Permit Application

Lake Merwin Campers Hideaway – Lease Dock Expansion RE: Existing Shoreline Use Permit LSMP-0048

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The map below is marked-up to show the location of this project.



Cc:

Matt Gomes, Acting Camp Manager, campmanager@lmch.com

Matt Gomes, Facility Manager, mgomes@lmch.com

Julie White & Jaimie Veith, Waterfront Committee Co-Chairs, waterfront@lmch.com

Lease Dock Expansion

This project entails doubling the number of Lease Dock slips available to our members. A new dock system, identical to the current Lease Dock system, would be linked to the current Lease Dock system. The existing Lease Dock system would be unchanged.

The current dock systems include a rental dock and a lease dock. The rental dock will be unchanged. The current lease dock has 72 slips. It is 420 feet long and 6 feet wide. The walkway to the dock is 92 feet long and is 6 feet wide. The entire dock and walkway is self-floating, and is made of plastic rectangular sections, made by EZ Dock. A 3 foot wide, 40 foot long, aluminum ramp is in place from the gravel path, near picnic area #2, down to the floating walkway.

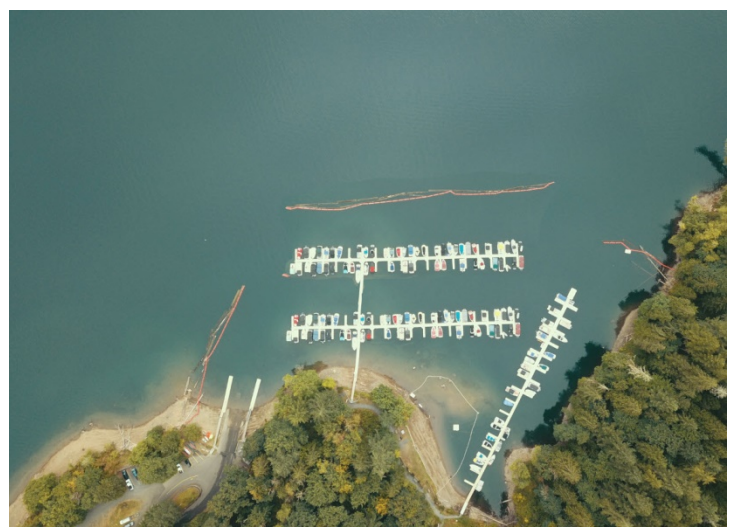
The addition replicates the current lease dock design. It will add 72 slips. The dock and walkway will have the same dimensions as the current lease dock. The new walkway will attach opposite the point where the current walkway connects to the current dock. No additional shoreline is affected by this addition.

This project includes the following:

- Move two current column buoys out beyond new location for the center boom section.
- Add one new column buoy near the center of the boom at its new location.
- Move the current center log boom section out approximately 150 feet from its current location. The boom section would retain the current placement angle. New anchors and securing mechanisms would be applied.
- Place 2-3 additional logs at each end of the center log boom section to close up the gap between the center boom section and the south and the north log boom sections. Additional anchors and securing mechanisms would be applied.
- Install new Lease Dock system. The new dock would retain the current dock placement angle. New anchors and securing mechanisms would be applied.
- Dock System Contractor: Evans Marine Solutions
2103 46th Ave. NE
Olympia, Wa. 98506
evansmarinesolutions@gmail.com
www.evansmarinesolution.com
360-480-6117



Existing Lease Dock View



Proposed Lease Dock View

The dock sections are made from polyethylene

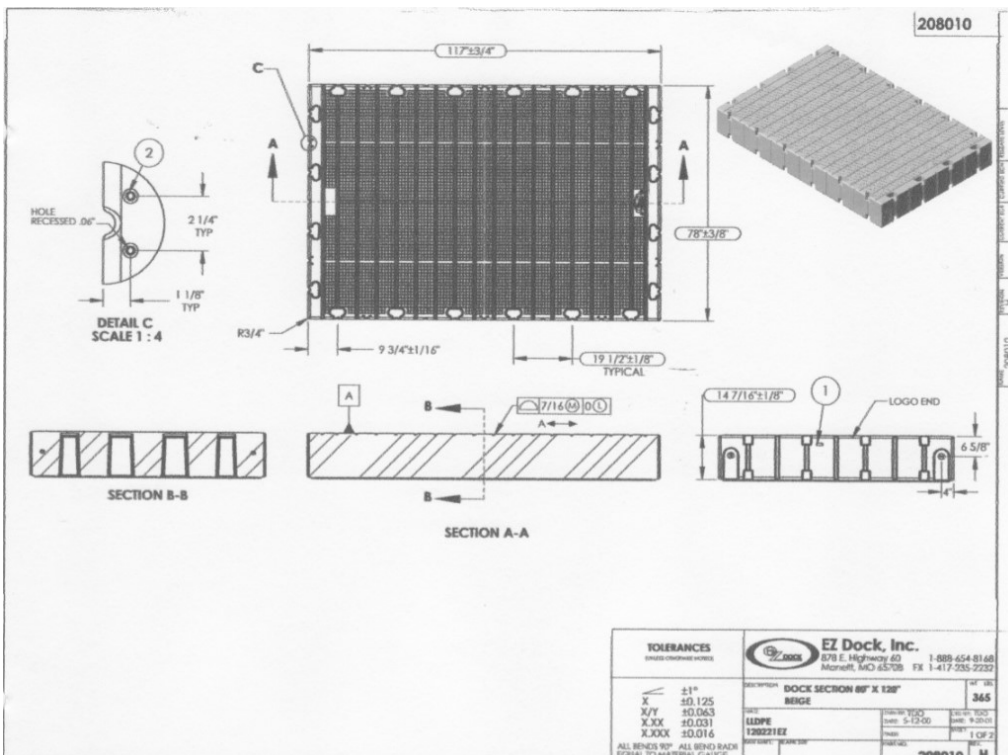
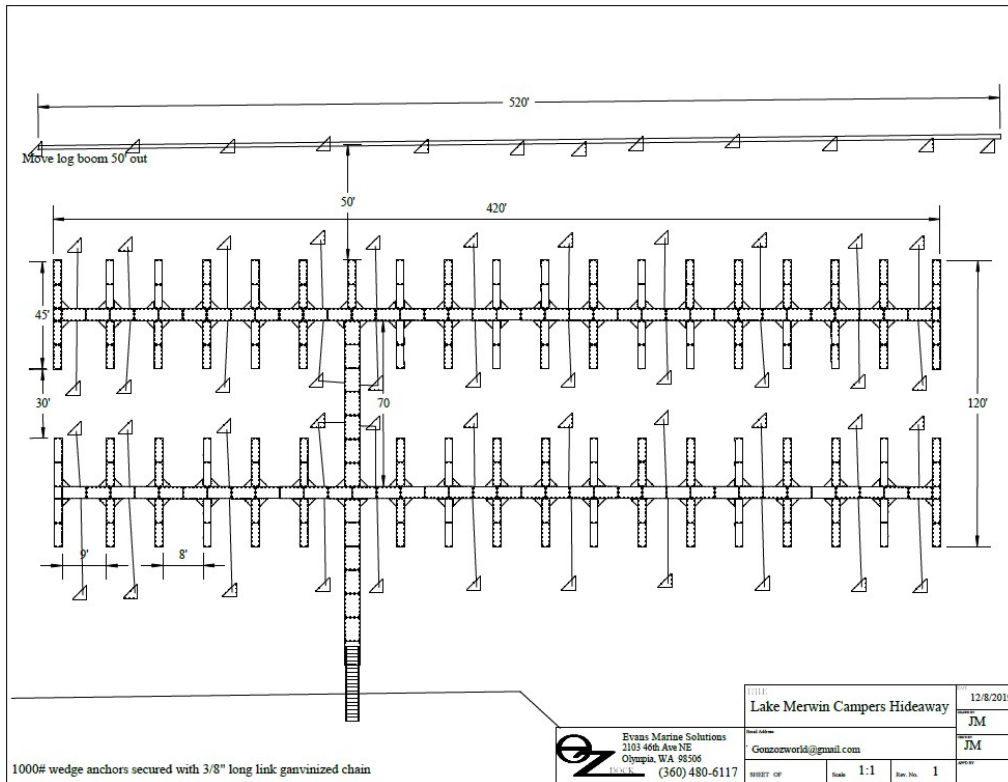
Couplers are recycled rubber

The 3/8" galvanized chain has a 20,000lb minimum breaking strength

The concrete wedge anchors are 1000lbs each

The deadweight brackets are 1/4" galvanized steel and have a holding strength of 52,000lbs each

The cross anchoring method runs under the dock and out to increase the holding capacity





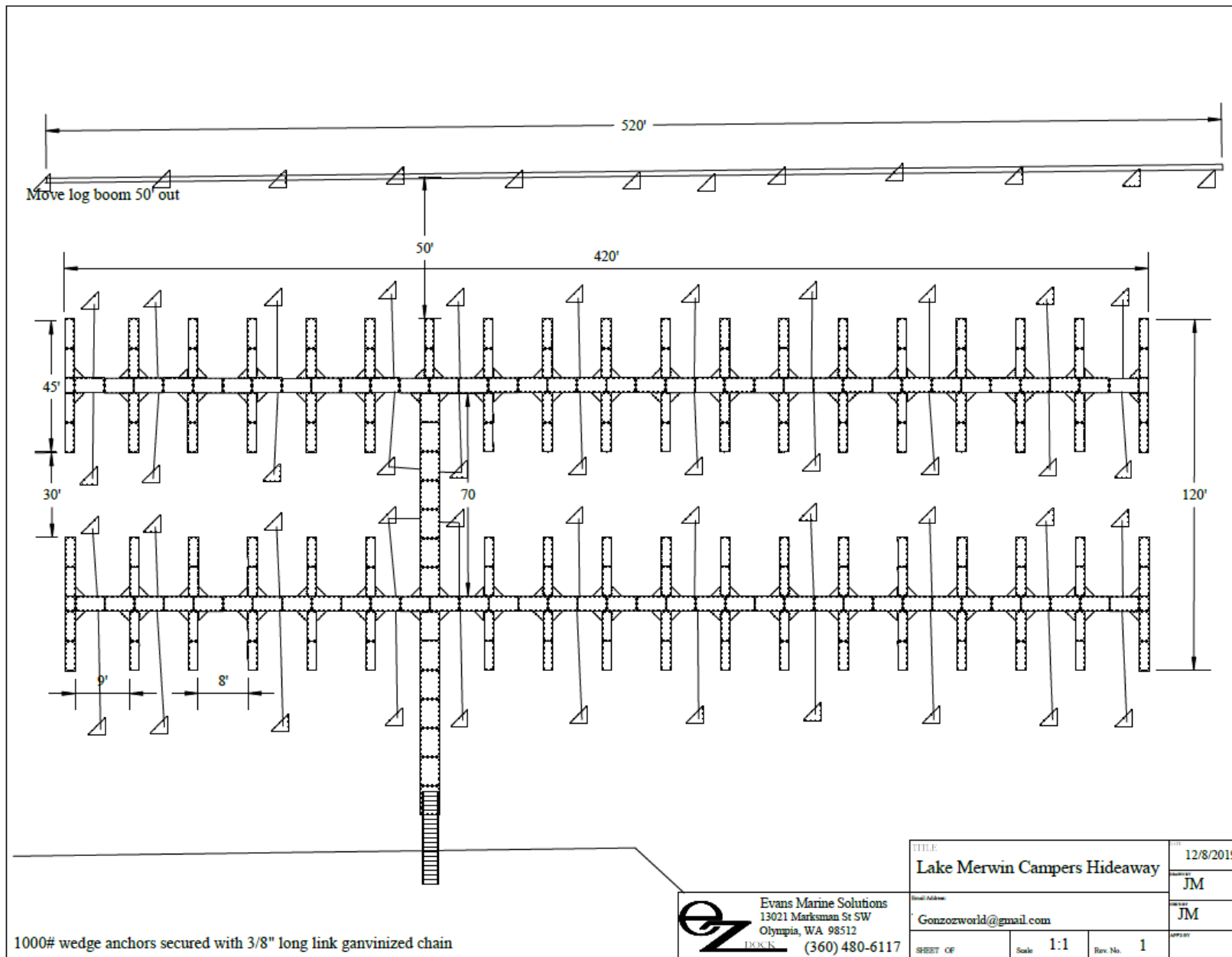
LAKE MERWIN CAMPER HIDEAWAY MARINA ADDITION

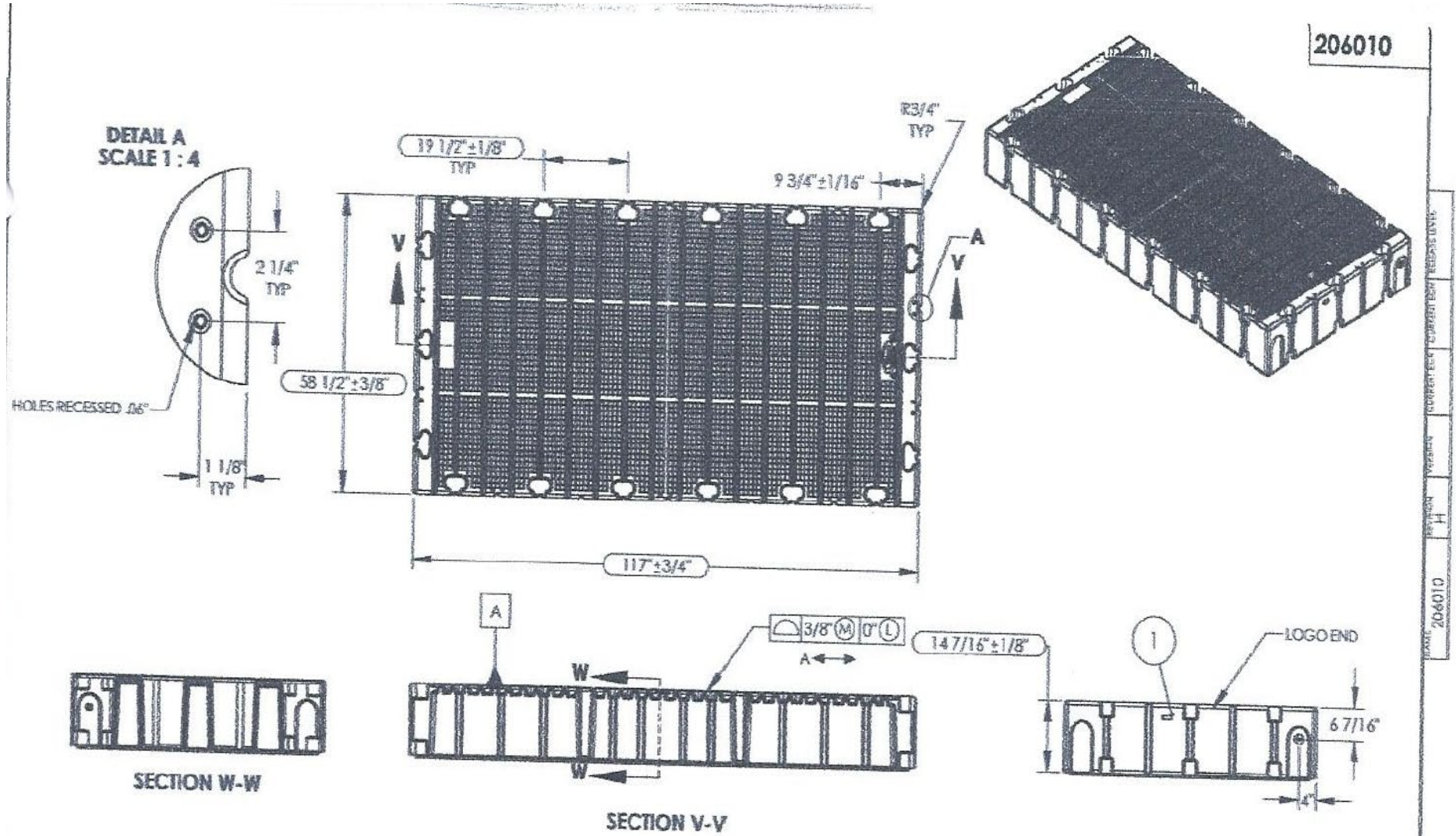
72 boat slip addition and moorings

Evans Marine Solutions

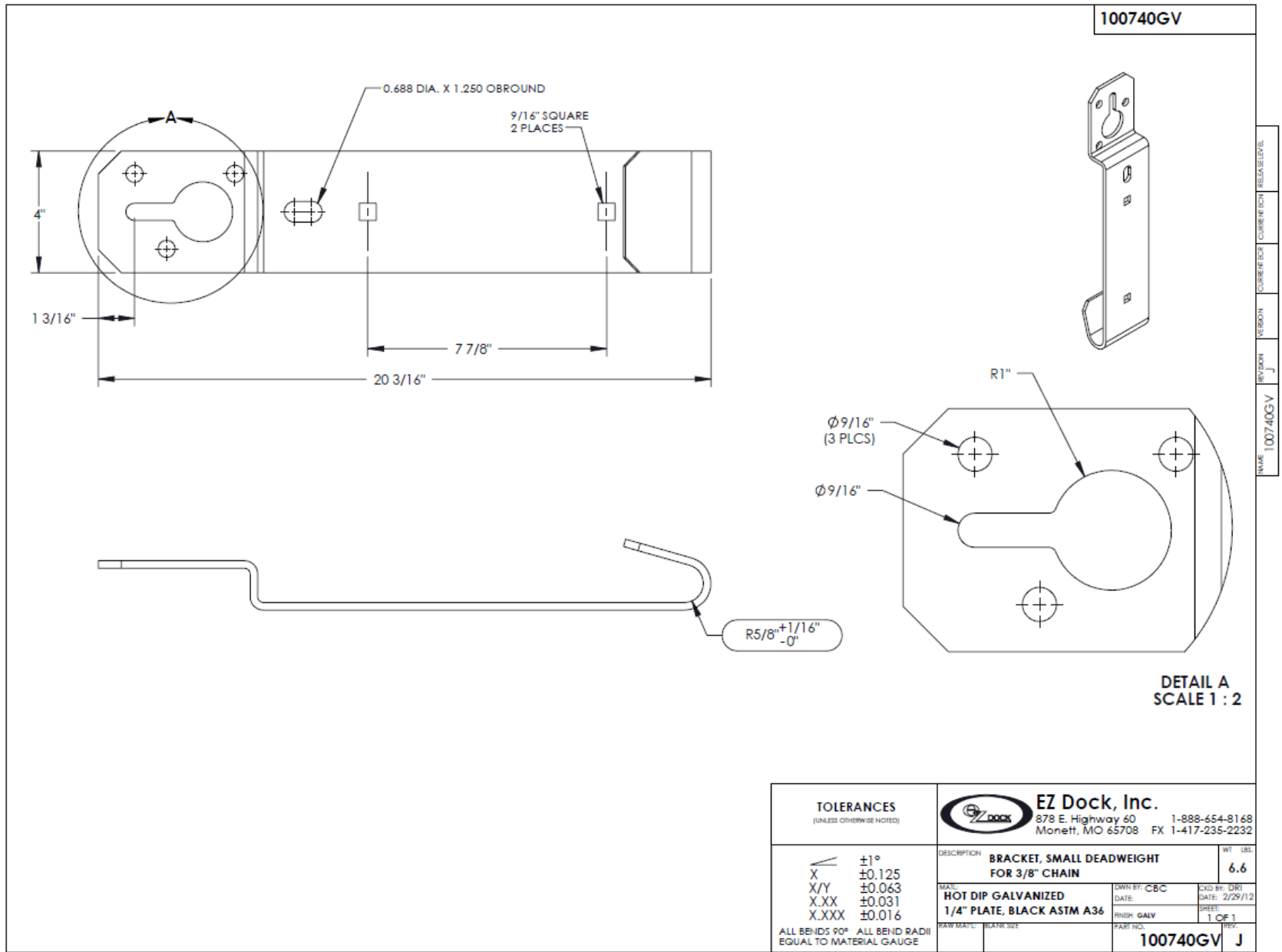
Olympia, Washington

evansmarinesolutions@gmail.com

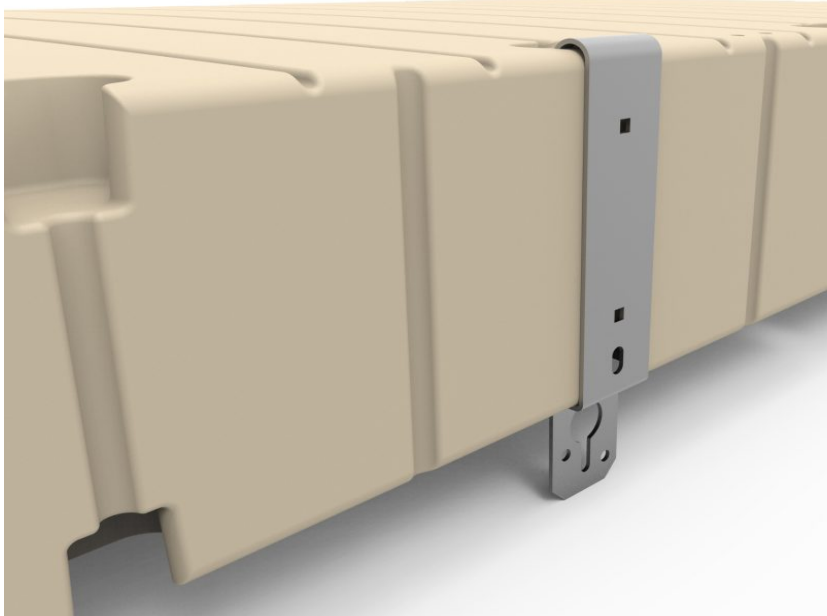




60" EZ Dock Section Drawing



Deadweight Bracket Drawing



Deadweight bracket connection to EZ Dock



Calculations for docks at LMCH

Materials:

80x10 (7)

60x10 (34)

40x10 (70)

Gussets (70)

3/8" LL chain (1600 ft)

1000Lb wedge anchors (34)

Calculations based on windward side of dock only

Average weight of docks 325 lbs ea with 3300lbs of buoyancy ea = 2975lbs positive buoyancy

Calculations based on 50mph windspeed effecting 11" of freeboard of windward side of docks

Drag coefficient of dry air 1.05 on flat object

Wind speed converted from M/s³ to N/m² = 0.012psi

x 56.83 convert to ft² = 0.39 lbs per ft²

11" freeboard = 1.71 M² per 10' section length x 34

sections long = 351,449lbs x 0.39 psf = 137,065 lbs over the 340' length

11 wedge anchors weighing 1000lbs ea, weigh 685 lbs in freshwater x 11 anchors = 7535 lbs static load.

7535 lbs x 10 for suction = 75,350lbs holding power

75,350lbs holding power x 3 for (3/1) scope on chain =

226,050 lbs total anchoring strength on windward side.

(once anchors bury down into substrate)

226,050 lbs holding power – 137,065 lbs of pressure in

50mph wind exerted by docks on anchoring system =

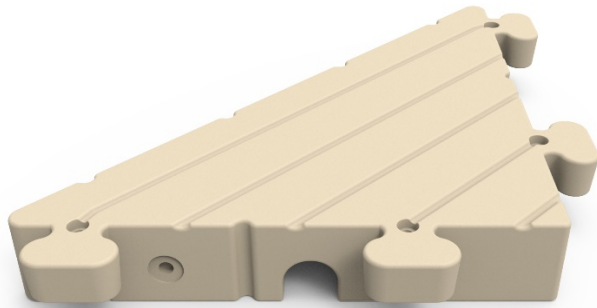
88,985 lbs of extra holding power from anchoring

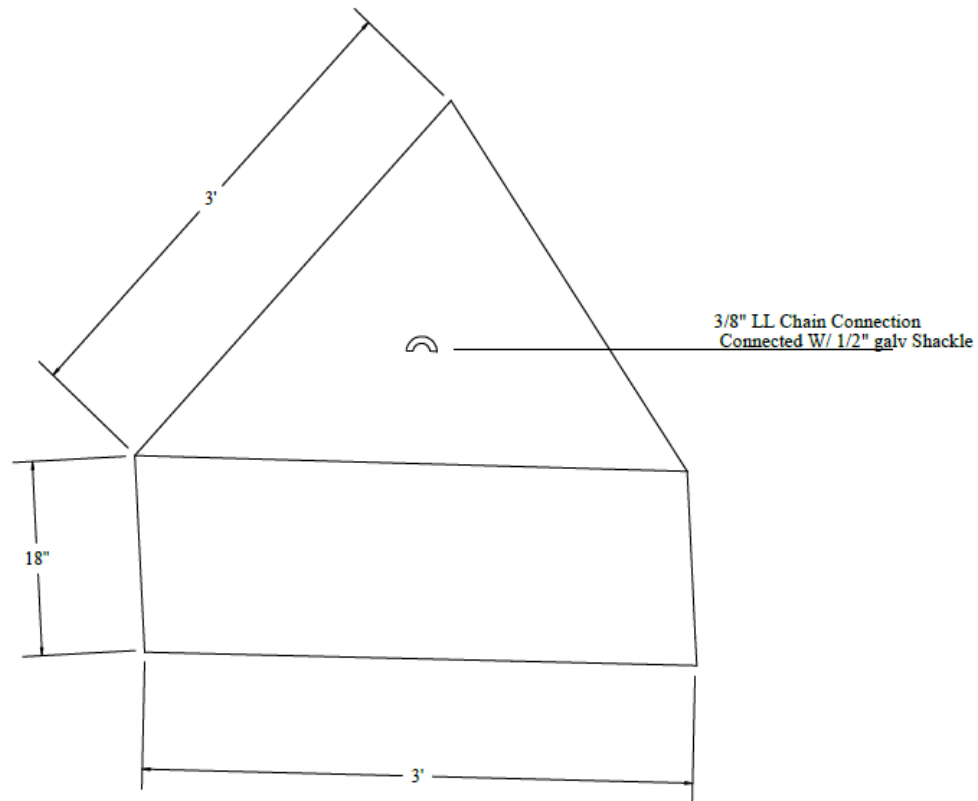
system.




EZ Dock Recycled Rubber Coupler 3300LBS holding capacity each.

EZ Dock Corner Gusset used in boat slips provide stiffness to EZ Dock system.



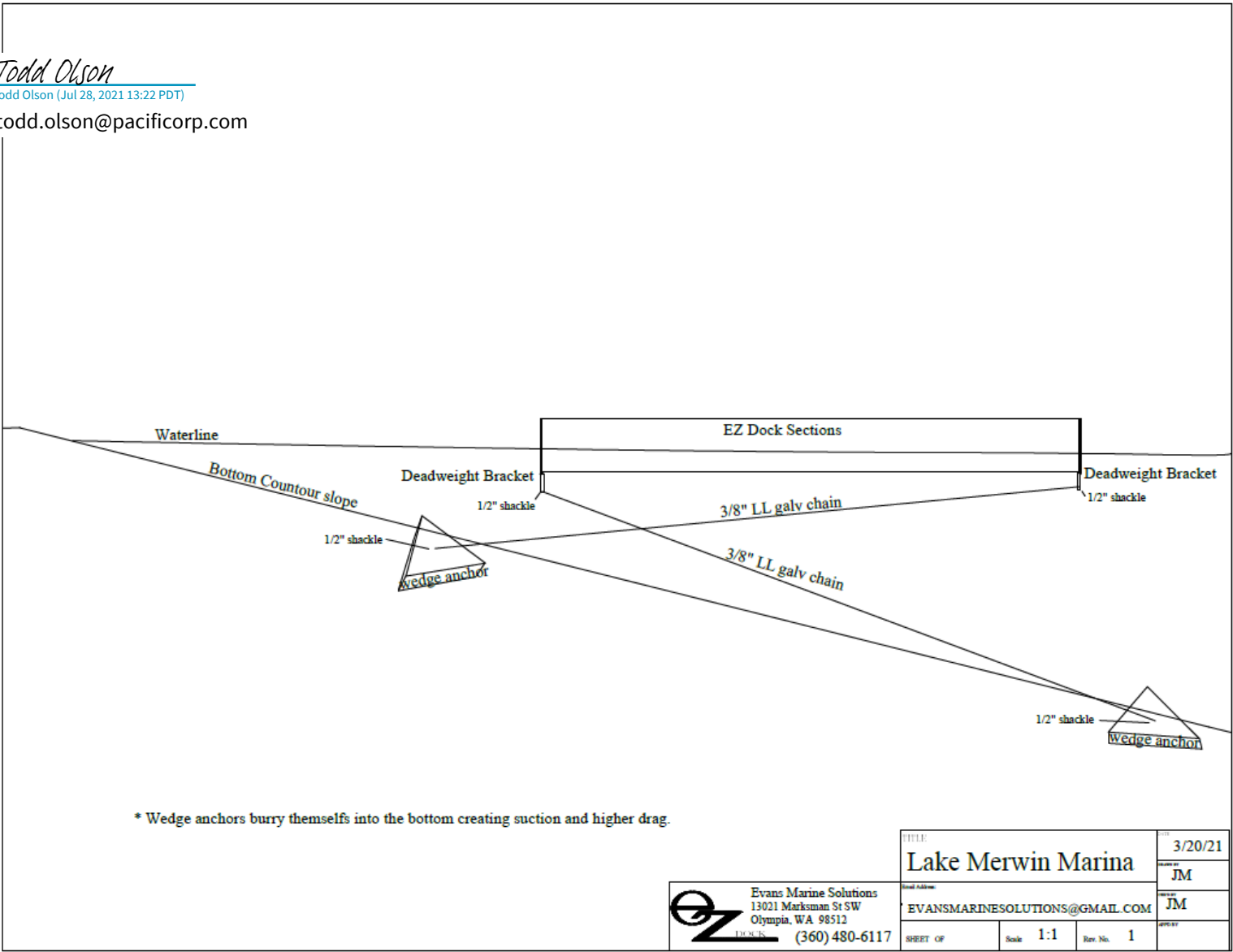



 Evans Marine Solutions
 13021 Marksman St Sw
 Olympia, WA 98512
 (360) 480-6117

TITLE:		DATE:
1000# Wedge Anchor		3/20/21
DRAWN BY:		JM
CHECKED BY:		JM
SHEET OF		REVISED
Scale	1:1	Rev. No. 1

Signature: Todd Olson
Todd Olson (Jul 28, 2021 13:22 PDT)

Email: todd.olson@pacificorp.com



Wedge Anchoring method from the side slope viewpoint.