

### Joint Work Session Agenda Warrenton City Commission Marina Advisory Committee Tuesday, March 11, 2025 – 4:30 pm City Hall, 225 S. Main Warrenton, OR 97146

\*\*\*The meeting will be broadcast via Zoom at the following link\*\*\* https://us02web.zoom.us/j/5332386326?pwd=VHNVVXU5blkxbDZ2YmxISWpha0dhUT09#success Meeting ID: 533 238 6326 | Passcode: 12345 | Dial-in Number: 253-215-8782

- 1. Call to order
- 2. Roll Call
- 3. Warrenton & Hammond Marina Redesign Presentation and Discussion
- 4. Adjourn

#### **City Commission Agenda Memo**



Meeting Date: From: Subject:

March 11, 2025 Jessica McDonald, Harbormaster Warrenton & Hammond Marina Redesign Work Session

#### Summary:

With support and direction from the Warrenton City Commission and City Manager Esther Moberg in 2023 and 2024, staff began a comprehensive review of the critical aging infrastructure in the Warrenton and Hammond Marinas.

In FY 2023-2024, staff contracted HDR Engineering, Inc. to conduct a full assessment of the Warrenton Inner Basin, which estimated that a full replacement would cost approximately \$40 million. In response, maintenance staff immediately prioritized the most critical areas for renovation and repair, while administrative staff partnered with North Coast Civil Design to develop redesign plans for both marinas. These redesigns aim to address infrastructure issues and establish a long-term, phased approach for full dock replacements. This strategy ensures that the marinas remain operational while balancing the need for future infrastructure improvements.

#### Warrenton Marina Redesign Goals:

- Review the 2010 Master Plan to identify opportunities for phased implementation of its goals and dock layouts.
- Ensure that no slips are under 30 feet to better accommodate modern vessels.
- Develop realistic phased improvements that align with the marina's limited budget.
- Evaluate best construction materials for the region and intended use while providing cost estimates.

#### Hammond Marina Master Plan Review & Goals:

After reviewing the 2005 Master Plan for the Hammond Marina, the redesign focuses on:

- Creating a cohesive layout that improves traffic flow, safety, and congestion at the launch ramp and Iredale Street.
- Address boat launch congestion issues with improvements to C Dock and ensure no slips under 30 feet.
- Enhancing marina facilities, including restrooms, fish cleaning stations, and crab cooking areas.
- Exploring potential layouts for a future recreational fishing pier, ensuring it integrates effectively with traffic and overall marina design.

These efforts will help modernize and enhance both marinas while maintaining their operational capacity and ensuring long-term sustainability.

#### **Recommendation/Suggested Motion:**

NA discussion review of Warrenton & Hammond Redesigns

#### Alternative:

Other action as deemed appropriate by the City Commission and Marinas Advisory Board OR

None recommended

#### **Fiscal Impact:**

Redesigns will allow staff to explore funding options and begin planning for the full fiscal impacts on the Warrenton and Hammond Marinas. This proactive approach ensures that future infrastructure improvements are financially sustainable while maintaining essential marina operations.

#### **Attachments:**

Presentation from North Coast Civil Design •

Approved by City Manager:

# WARRENTON\_HAMMOND MARINA ELEMENTS – VISION 2025





JESSICA MCDONALD-HARBOSCOMMISSION Packet JEWS Page 4 of 35

# LOOKING AT WARRENTON MARINA FIRST - ELEMENTS:

- INCREASE 30'+ SLIPS IN WARRENTON MARINA

- MARINA RECONFIGURATION – WALKER-MACY MASTER PLAN, 2010

- SHOWING TYPICAL LAYOUTS

- LOOKING AT DECKING MATERIALS

- COSTS

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# Modern Marina Layout & Design

Certain characteristics of recreational boats — mainly beam and draft — heavily influence slip layout and basin dredging depth criteria in marina design.

#### DUNCAN C. MELLOR

The perception exists that new recreational boats are enclosing more volume in a given length, with greater beams, higher superstructures and more draft. Is this situation really occurring, or are marina operators simply putting the largest boats possible into marina slips?

Figures 1 and 2 illustrate how a marina operator, tempted by higher revenue, can squeeze oversize boats into slips designed for smaller vessels. These overlength boats extend far beyond the slip fingers, restricting the fairway width for other boats. The boat shown in Figure 2 does not have sufficient slip width clearance, and fenders barely fit between the finger docks and hull. Note that there are exhaust appendages near the waterline on either side of the hull, increasing the beam of this vessel. It is not surprising that the skipper of this boat had to wedge the boat into the slip bow first. Despite the evidence of some slip overloading, a comparison of boat dimensions from the past few decades does indicate a trend toward increasing beam and draft for powerboats and sailboats.

With boat beam and draft increasing, do existing marina design guidelines need revising? To check existing guidelines and to extract additional marina design information, two databases were recently compiled for recreational powerboats and sailboats of lengths likely to be found in a marina. Data on the critical dimensions and other key features of many different recreational powerboat and sailboat designs were compiled from magazine advertisements, boat brochures and sales listings both in this country and overseas. These characteristic boat dimensions, and their relationship to dock layout, are illustrated in Figures 3 and 4. Boat or slip length is given as L; slip width (clear width) is given as W.

The powerboat database consists of 1,500 different designs of boats from 6.1 m (20 ft) to 65 m (213 ft) in length. Such features as overall length, beam, draft, displacement, standard fuel type and capacity were recorded, if available.

A similar sailboat database was compiled from 1,100 designs of boats from 2.4 m (8 ft) to 48.5 m (159 ft) in length. Sailboat information included overall length, waterline length, beam, minimum and maximum drafts (with available keel options), and fuel capacity.

CIVIL ENGINEERING PRACTICE SPRING 1992 87

## EXAMPLE OF REFERENCE USED FOR MARINA LAYOUT & APPURTENANCES

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# Layout & Design Guidelines for Boat Launching Facilities



ANOTHER EXAMPLE OF REFERENCE MATERIAL TO DETERMINE MARINA LAYOUT – APPURTENANCES

NEWER BOATS NEED LARGER SLIPS – LARGER SLIPS MEAN MORE USE OF MARINA!



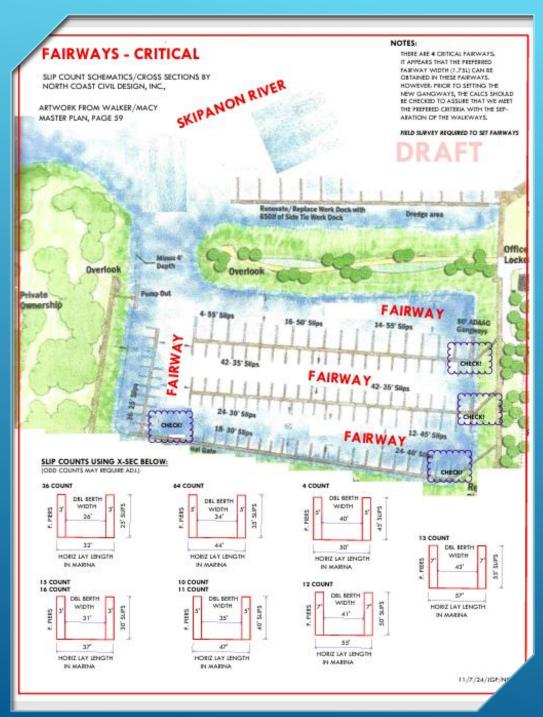
CALIFORNIA DEPARTMENT OF PARKS AND RECREATION DIVISION OF BOATING AND WATERWAYS

2021



166 PAGES!

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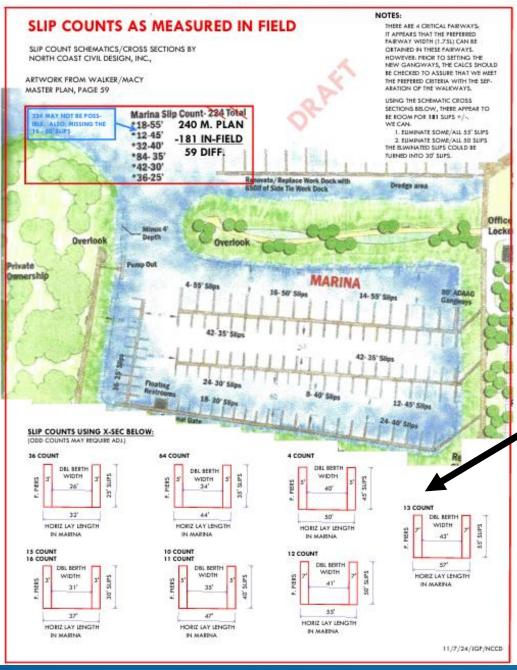


ANOTHER EXAMPLE OF REFERENCE MATERIAL TO DETERMINE MARINA LAYOUT – APPURTENANCES

WHATEVER THE LAYOUT IS FINALIZED TO BE – THE FAIRWAYS ARE CRITICAL TO BOAT MANEUVERING!

EXAMPLES OF FAIRWAYS – THERE ARE 4 SHOWN HERE (LAYOUT IS FROM WALKER-MACY MASTER PLAN, 2010) BIGGER BOATS = BIGGER FAIRWAYS NOTE THE SINGLE GANGWAY/SINGLE DOCKS

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THE RED SCHEMATIC DRAWINGS REPRESENT THE "LAY-LENGTH" IN THE MARINA, THAT EACH SIZE OF BOAT WOULD TAKE UP, IN A GENERAL SENSE – ALSO CONSIDERING THE LENGTH OF THE FAIRWAYS INCREASING WITH THE LENGTH OF THE BOATS

NEXT SLIDE SHOWS TYPICAL ANALYSIS

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#### PHOTO CREDIT - WALKER-MACY MASTER PLAN, 2010

ULTIMATELY – THE DECISION WAS TO LEAVE THE MARINA LAYOUT "AS IS" AND FOCUS ON RE-BUILDING THE "C" DOCK, (+/-56 BERTHS) WITH SLIGHTLY LARGER BERTHS – **MIN. 30' – AS PHASE 1.** 



**CAUTION: CALCULATE FAIRWAYS!** 

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# PRELIMINARY/ESTIMATED COSTS

PLEASE NOTE THAT NC CIVIL CANNOT BE RESPONSIBLE FOR DOCK CONSTRUCTION METHODS OR OPERATIONAL PROCEDURES. WE ARE MERELY PROVIDING A SERVICE TO OUR CLIENTS FOR TYPES OF IMPROVEMENTS AND COSTS. THE SKETCHES AND COST ESTIMATES ARE ONLY PROVIDED FOR THE CITY OF WARRENTON AND THEIR MARINAS FOR THIS PROJECT - NO ONE ELSE.

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WARR	ENTON MARIN	IA RENOVATIO	ON - EXISTING C DOCK REP	LACEME	NT	÷		_
POTE	NTIAL COST E	STIMATION @	PRLIM LEVEL				-	
BY: JGF	REV BY:	_	DRAFT		NO	RTH C	OAST	
DATE: 111	1124		DRAFT			CIVIL DES	IGN	
PHASE 1 - EXISTING C DOCK REPLACEMENT								
	•	ITEM DES	CRIPTION	UNIT	QUANTITY	UNIT PRICE	тоти	۱L
1	MOBILIZATION,	DEMOB, BONDIN	IG	LS	1			
2	GEOTECHNICAI	LIDRILLING/EST.	BOTTOM CONDITIONS	LS	1			
3	SURVEY WORK	(EXISING PILINGS	, DOCKS, DIKE X SEC)	LS	1			
4	PROJECT SIGN	(FUNDING AGEN	CY)	LS	1			
5	DEMOLITION, EX	KISTING DOCKS, I	PILINGS (CRANE/BARGE)	LS	1			
6	WASTEHAUL DE	MOLITION MATE	RIALS TO CITY SITE/DUMP	CY	160			
7		YS (REUSE) CRAI		LS	2			
8	•		PER PLANS, COMPLETE	LS	- 1			
9			FDC, COMPLETE	EA	1			
10		WALKWAY PILIN		EA	22			
11		R FLOAT PILINGS		EA	38			
		WALKWAY MAIN			•			
12				EA	22			
13			ECKING FOR WALKWAY (7' X 840)		5880			
14	F&I NEW FINGER			EA	22			
15		VAY LANDING FL		EA	2			
16			ECKING, FINGER F. ((5'X32')X22)	SF	3520			
17	F&I NEV DOCK(	S) WATER SYSTE	M (WIDDDC VALVING)	LS	16			
18	F&I NEW FIRE H	YDRANTS (W/SIG	NAGE/HOSE C.)	EA	2			
19	F&I NEW ELECTI	RICAL & LIGHTIN	G SYSTEM, DOCKS	LS	1			
20	F&I ELEC. CABIN	NET, GFIC LOOPS	, SHORESIDE, INSTALL CONDUITS	LS	1			
21	F&I NEW LIFE-RI	NGS & SAFETY L	ADDERS (PACKAGE)	LS	2			
					estimate	d sub-total>	\$	
					continge	ncy @ 10%>	\$	
	· ·	RELIMINA	RY PHASE COSTS >	Engineering/Const Mamnt@15%>			\$	
	' ESTIMATED PHASE COST			E COST >	\$			
NOTES	5							
1	FIRE DEPARTMEN	IT SHOULD REVIEW	& APPROVE PLANS PRIOR TO CONSTR	RUCTION	N	OTES A	RE	
2			/ & APPROVE METER(S) TO DOCK(S)					
3			., CITY/MARINA RESPONSIBILITY					
4			RINA RESPONSIBILITY	*1FOK EST				

MAY REQUIRE ELEC AND WTR SCHEMATIC FOR DOCKS A, B, G, H, ADDER=\$150K EST.

EXAMPLES OF TYPICAL COSTS FOR "C" DOCK APPROXIMATELY \$2.2M

WHILE WE TRY TO BE CURRENT WITH COSTS, THEY FLUXUATE GREATLY. THEREFORE SOME PLACEHOLDERS ARE USED

WHAT DOES THE NEW DOCK LOOK LIKE?

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HDPE PIPE/STYROFOAM FILLED LINEAR FLOATS WOOD CLADDING ABOVE WATER-W/RUB STRIP FIBERGRATE\_FISH FRIENDLY GRATING

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TYPICAL FINGER FLOATS OFF OF WALKWAY NOTICE THE EATON POWER/UTILITY STANDARDS

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WITH THE "C" DOCK DONE – AND THE UTILITY UP-GRADES OR SCHEMATIC BLOCK UPGRADES – THERE IS AN ECONOMY OF SCALE. (REMEMBER SLIDE 7 – POTENTIAL PHASING)

CAN UP-GRADE EITHER THE A, B OR THE G, H. HOWEVER, WE WOULD RECOMMEND UP-GRADING THE G, H AND THE M,N, WORKING OR "PAINTING" YOUR WAY OUT OF THE BASIN.

BY DOING THIS, THE PILE DRIVING BARGES, THE WORK BARGE CAN OPERATE FREELY, WITHOUT HAVING TO MAKE COSTLY CHANGES TO THE METHOD OF DRIVING

WALKER-MACY ONLY HAD ONE DOCK PER GANGWAY THEREFORE NO CROSSING OVER OR REDOING WORK

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END OF WARRENTON PORTION OF THE PRESENTATION

# **INTERMISSION/QUESTIONS**

**BEGIN THE HAMMOND PRESENTATION** 

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# HAMMOND MARINA – VISION 2025 ELEMENTS

**IMPROVEMENTS TO "C" DOCK & FINGER PIERS** 

**ADDITION OF 2 COVERED FISH/CRAB CLEANING STATIONS** 

HARD SURFACE WALKING PATH BETWEEN CLEANING STATION AND ADA

**ADDITION OF ONE ADA FISHING PIER ON EASTERN JETTY** 

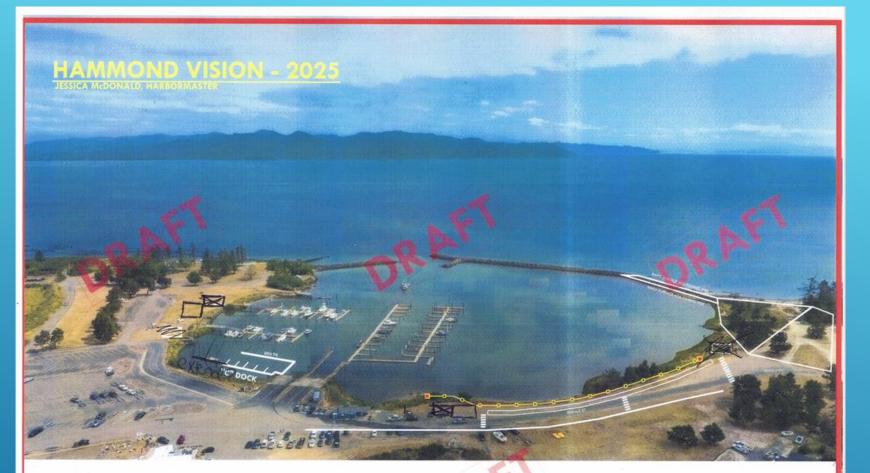
WIDENING IREDALE STREET 10'-12' TO SOUTH

ADDITION OF BOLLARDS/CHAIN FOR PEDESTRIAN/VEHICLE PROTECTION

ADDITION OF 2 RESTROOMS, ONE ON WEST SIDE, ONE ON EAST AS SHOWN

CITY/MARINE BOARD/TO SET PRIORITIES/FUNDING

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#### TYPICAL 30' SLIP FOR "C" DOCK



#### IMPROVEMENTS LISTED



#### ADA FISHING PEIR - PLATFORM - PARKING

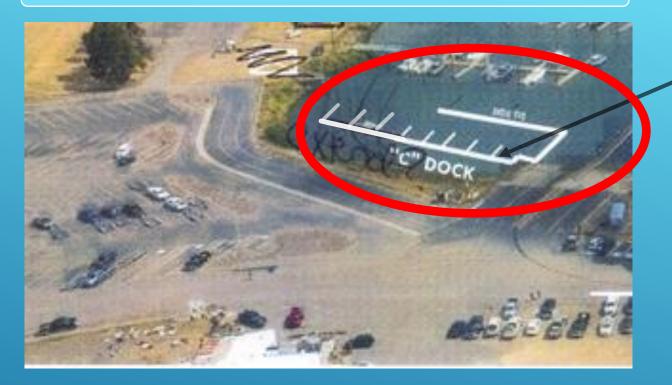
NUMERIC PLAY-DINK, PER AND PARTING NUST COMMIT YORK THE ANTIBOLIS WITH INTERNITS ATC. THE ARX ACCONTINUENT COMPLETE SAMAGES THE STANARD AFTER TO MARINE AND AND ACCONTINUENT COMPLETE SAMAGES AND PLAY OWNE, ARE AND/YO THE FACULATE REQUIRED TO COMMIT WITH THE ADA.

SOTE THAT IF IT HE VEROLITIKEL BOTH ADA AND STALEARD PARTIES ARE ACCOMODATED FOR THE BUILDED OF THIS WITH DATABASED.

#### DOES NOT SHOW SEAWALL OR EAST SIDE DEVELOPMENT

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#### **IMPROVEMENTS TO C DOCK AND FINGER PIERS**

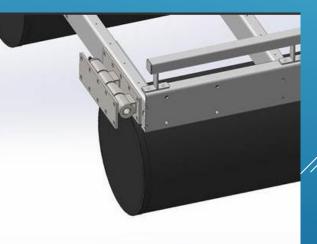


NO UTILITYS ON WALKWAYS OR FINGER PIERS

MAY NOT HAVE QUITE AS MANY FINGER PIERS AS SHOWN

MAY REQUIRE LOCALIZED DREDGING ON WEST END





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# COST TO RE-PLACE AND EXPAND "C" DOCK: APPROX \$1.0M

LINE ITEM	ITEM DESCRIPTION	UofM	QUANTITY	UNIT PRICE	EXTENSION
1	MOBILIZATION/DEMOBILIZATION/BONDING	EA	1		
2	GEOTECHNICAL SERVICES	LS	1		
3	DEBRIS CONTROL BOOMS/WATAER QUALITY + PERMIT REPORTS, TIME & MATERIALS BASIS	EA	1		
4	SHORESIDE CRANE SERVICE, WICREW	WKS	1		
5	MARINE BARGE CRANE SERVICE/PILE DRIVING, W/CREW	WKS	1		
6	DEMO/REMOVE AND WASTEHAUL EXISTING PILINGS (INCLUDES BROKEN PILINGS)	EA	7		
7	F&I NEW 12" STEEL PILINGS (MAY REQUIRE 16"-18")	EA	11		
8	DEMO AND WASTEHAUL FLOATING DOCKS/FINGER PIERS, COMPLETE REMOVAL	SF	2,650		
9	F&INEW WALKWAY FLOATS - COMPLETE/W/PILING HOOP ATTACHMENTS (1.5 MULTI)	EA	8		
10	F&INEW FINGER PIERS/FLOATS - COMPLETE/W/PILING ATTACHMENTS, STRONGARMS	EA	7		
11	F&I WALKWAY SAFETY EQUIP, SIGNAGE, LADDER, LIFE RINGS, PER PLANS	LS	1		
12	FURNISH RECORD DRAWINGS (REQUIRED COMPLETE BY PROJECT COMPLETION)	LS	1		
BASE BID TOTAL:					

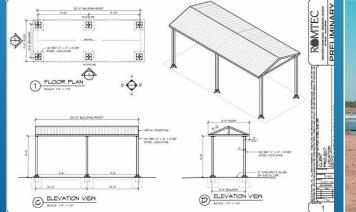
NO UTILITIES AND MAY REQUIRE LOCALIZED DREDGING

## TYPICAL QUESTVBID WORKSHEET – ELECTRONIC BIDDING

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## ADDITION OF 2 COVERED FISH/CRAB CLEANING STATIONS







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#### (STEEL SHELTERS-COURTESY OF ROMTEC)

## COST TO ADD 2 FISH/CRAB CLEANING STATIONS: APPROX \$0.6M

ITEM	ITEM DESCRIPTION	UofM	QUANTITY	UNIT PRICE	EXTENSION
1	MOBILIZATION/DEMOBILIZATION/BONDING	EA	1		
2	CONSTRUCTION STAKING OF BUILDING PAD & BUILDING	LS	1		
3	EROSION CONTROL, PER PLANS	LS	1		
4	CLEARING, GRUBBING, ROUGH GRADING (50x50) PRELIMINARILY	LS	1		
5	STRUCTURE EXCAVATION AND BACKFILL, COMPLETE PER PLANS	EA	1		
6	F&I BASE AGGREGATE, (3/4"-0") PER PLANS, COMPACTED, 50x50x1, COMPLETE PER PLANS	TONS	60		
7	F&I FISH CLEANING SHELTER PACKAGE, CONCRETE BASE, PLUMBING, ELECTRICAL/WATER, POST/ROOF FRAMING, COMPLETE	EA	1		
8	F&I 2" WATER MAIN TO CLEANING STATION (INCL FREEZE PROTECTION)	LF	100		
9	F&I WATER METER/RP DEVICE, COMPLETE PER PLANS	LS	1		
10	F&I ELECTRICAL EQUIPMENT, COMPLETE, INCL TRENCHING, PER ELEC/CIVIL PLANS	LS	1		
11	F&I NEW LUMINAIRES, INCLUDING BASE/ELEC CONNECTIONS, COMPLETE	EA	2		
12	F&I STAINLESS STEEL (MIN316SS) FISH CLEANING TABLE, 6' x 10' W/HOSE CONN., COMPLETE	EA	1		
13	STORM SEWER CONN. ALLOWANCE, INCL TRENCHING, PIPE, CONNECTIONS, COMPLETE PER PLANS	LS	1		
14	FURNISH RECORD DRAWINGS (REQUIRED COMPLETE BY PROJECT COMPLETION)	LS	1		
15	SHIPPING OF BUILDING PACKAGE TO HAMMOND (EST)	LS	1		
	BASE BID TOT				

NOTE: DOES NOT INCLUDE ENGINEERING, CONTINGENCY OR PERMITTING – THIS SPREADSHEET IS ONLY A MATERIALS ESTIMATION.

BE SURE TO DOUBLE BASE BID TOTAL FOR 2 SHELTERS

### TYPICAL QUESTVBID WORKSHEET - ELECTRONIC BIDDING

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GO TO HARD SURFACE WALKING PATH

#### HARD SURFACE WALKING PATH BETWEEN CLEANING STATION AND ADA FISHING PIER



COST FOR WALKING PATH – WITH ADA APPROACHES: \$80K-90K NOTE THAT THIS INCLLUDES CONTINENTAL CROSS-WALKS, NEXT SLIDE.

MATERIALS: ASPHALT, CONCRETE RAMPS (3)ADA, LANDINGS (NOT ILLUMINATED-ADDS COST)

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## HARD SURFACE WALKING PATH (ADA) BETWEEN CLEANING STATIONS

_						
	1	MOBILIZATION/DEMOBILIZATION/BONDING	1	EA		
	2	CONSTRUCTION STAKING OF PATHWAY	1	LS		
	3	EROSION CONTROL, PER PLANS	1	LS		
	4	CLEARING, GRUBBING, ROUGH GRADING (500x20) PRELIMINARILY	0.23	AC		
	5	PATHWAY EXCAVATION AND BACKFILL, COMPLETE PER STAKING & PLANS (500x20x.5)	1	LS		
	6	F&I BASE AGGREGATE, (3/4"-0") PER PLANS, COMPACTED, (500x20x0.25), COMPLETE PER PLANS	120	TONS		
	7	F&I ASPHALT SURFACING, 3" COMPACTED, LEVEL 2, COMPLETE PER PLANS (500x10)	97	TONS		
	8	F&I ASPHALT SURFACING, ADA LANDING, BOTH ENDS, FORM PER PLANS, COMPLETE	3	EA		
	9	F&I SHOULDER AGGREGATE, (3/4"-0") PER PLANS, COMPACTED	25	TONS		
1	10	F&I CONTINENTAL CROSS WALKS, 2' WHITE LINE, STAGGERED, PER PLANS, COMPLETE (TORCHDOWN) OPTAMARK OR EQUAL	3	EA		
1	11	FURNISH RECORD DRAWINGS (REQUIRED COMPLETE BY PROJECT COMPLETION)	1	LS		
subtotal >					\$ -	

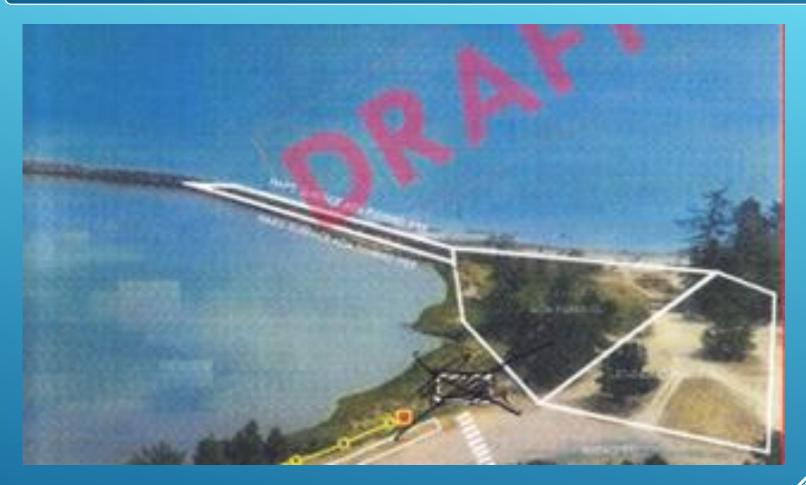
DOES NOT INCLUDE ENGINEERING, CONTINGENCY OR PERMITTING – THIS SPREADSHEET IS ONLY A MATERIALS ESTIMATION.

HARD SURFACE INCLUDES THE 3 CONTINENTAL CROSS WALKS AS SHOWN – ADA RAMPS OFF HARD SURFACE

COST EST.: HARD SURFACE, ADA AND CONTINENTAL X-WALKS, \$80K-\$90K

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# ADDITION OF ONE ADA FISHING PIER ON EASTERN JETTY + PARKING



# COST: BUDGETARY ESTIMATE - \$1.8M - \$2.0M

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### ADDITION OF ONE ADA FISHING PIER ON EASTERN JETTY + PARKING

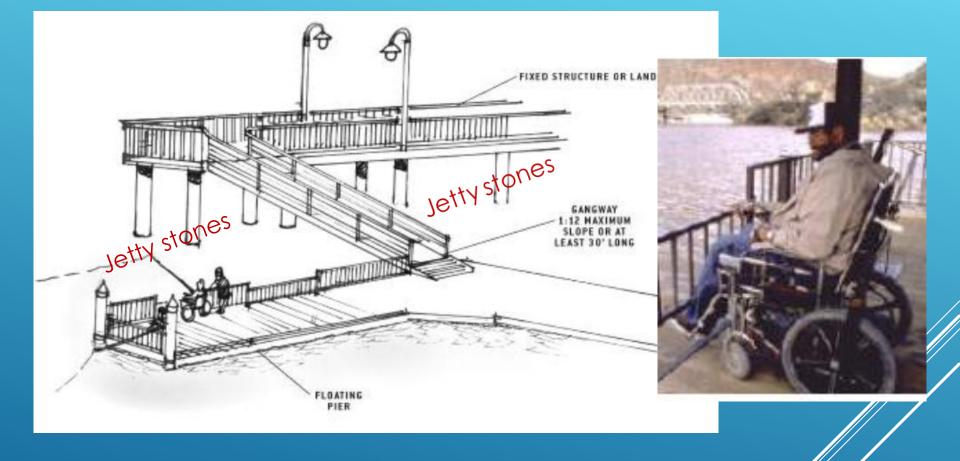
ITEM	ITEM DESCRIPTION	UofM	QUANTITY	UNIT PRICE	EXTENSION
1	MOBILIZATION/DEMOBILIZATION/BONDING	EA	1		
2	GEOTECHNICAL SERVICES	LS	1		
3	DEBRIS CONTROL BOOMS/WATAER QUALITY + PERMIT REPORTS, TIME & MATERIALS BASIS	EA	1		
4	SHORESIDE CRANE SERVICE, W/CREW	VKS	4		
4	MARINE BARGE CRANE SERVICE/PILE DRIVING, W/CREW	WKS	2		
5	F&I NEW 12" STEEL PILINGS (MAY REQUIRE 16"-18")	EA	28		
6	F&I NEW HOT-DIPPED GALVANIZED DECKING - COMPLETE/W/PILING ATTACHMENTS, ADAAG	EA	1		
7	F&I NEW HOT-DIPPED GALVANIZED GUARD RAIL SYSTEM - COMPLETE WIDECK ATTACHMENTS	EA	1		
8	F&I NEW HOT-DIPPED GALVANIZED TOE/KICK - COMPLETE W/DECK ATTACHMENTS	EA	1		
9	F&INEW GANGWAY-COMPLETE W/DECK AND BASE ATTACHMENTS, ADAAG	EA	1		
10	F&I NEW GANGWAY LANDING, BASE, INCLUDING GUARD-RAILS, COMPLETE, ADAAG	EA	1		
11	F&I NEW LUMINAIRES, INCLUDING BASE/ELEC CONNECTIONS, COMPLETE, ADA	EA	6		
12	F&I ELECTRICAL EQUIPMENT, COMPLETE PER ELEC/CIVIL PLANS	LS	1		
13	F&I 2" WATER MAIN TO MAIN WALKWAY FISH CLEANING (INCL. FREEZE PROTECTION)	LF	100		
14	F&I WATER METER/RP DEVICE, COMPLETE PER PLANS	LS	1		
15	F&I BASE AGGREGATE, PER PLANS, COMPACTED, 90×50×0.5, (BASE FOR ADA HARD SURFACE COMPLETE PER PLANS)	TONS	108		
16	F&I AC HARD SURFACE, TO DRAIN, ADA PAINT/PER PLANS (FED ADAAG)	TONS	75		
17	F&I CONCRETE HARD SURFACE, TO DRAIN, ADA PAINT/PER PLANS (FED ADAAG)	CY	11		
18	F&I WALKWAY SAFETY EQUIP, SIGNAGE (4), LADDER, LIFE RINGS, HOSE KEEPER, PER PLANS	LS	1		
19	FURNISH RECORD DRAWINGS (REQUIRED COMPLETE BY PROJECT COMPLETION)	LS	1		
BASE BID TOTAL > \$ -					

ADA FISHING PIER - DOES NOT INCLUDE ENGINEERING, CONTINGENCY OR PERMITTING – THIS SPREADSHEET IS ONLY A MATERIALS ESTIMATION.

SHOULD EXPECT PLANNING INVOLVEMENT FOR THIS STRUCTURE

NOTE THE REQUIREMENTS FOR ADAAG CONSTRUCTION – CONTRACTORS MUST BE PRE-QUALIFIED

## ADDITION OF ONE ADA FISHING PIER ON EASTERN JETTY



FROM: USA PUBLICATION: "Guide to the ADA Accessibility Standards"

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GO TO WIDENING IREDALE ST

### WIDENING IREDALE STREET 10'-12' TO SOUTH

#### NOTE THAT THIS IS DONE FOR MORE EFFICIENT MOVEMENT OF TRAFFIC



ITEM	ITEM DESCRIPTION	UofM	QUANTITY	UNIT PRICE	EXTENSION
1	MOBILIZATION/DEMOBILIZATION/BONDING	EA	1		
2	CONSTRUCTION STAKING OF WIDENING	LS	1		
3	EROSION CONTROL, PER PLANS	LS	1		
4	CLEARING, GRUBBING, ROUGH GRADING (750x20, 10' EA SIDE) PRELIMINARILY	AC	0.34		
5	F&I BASE AGGREGATE, (3/4"-0") PER PLANS, COMPACTED, (750x20x0.25), COMPLETE PER PLANS	TONS	181		
6	F&I ASPHALT SURFACING, 3" COMPACTED, LEVEL 2, COMPLETE PER PLANS (750x20)	TONS	292		
7	F&I SHOULDER AGGREGATE, (3/4"-0") PER PLANS, COMPACTED	TONS	36		
8	F&I EMULSIFIED AC FOG/SEA COAT, COMPLETE PER PLANS (\$2.00/SF) (750Lx45W=37,350SF)	SF	37350		
9	F&I STRIPING,4" DOUBLE YELLOW CENTER LINE (THERMOPLASTIC SPRAYED)	LF	1500		
10	F&I STRIPING, 4" WHITE, SHOULDER, EACH SIDE (THERMOPLASTIC SPRAYED)	LF	1500		
11	FURNISH RECORD DRAWINGS (REGUIRED COMPLETE BY PROJECT COMPLETION)	LS	1		
subtotal >					s -

WIDENING - DOES NOT INCLUDE ENGINEERING, CONTINGENCY OR PERMITTING – THIS SPREADSHEET IS ONLY A MATERIALS ESTIMATION.

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# COST ESTIMATION, \$200K-\$250K

GO TO BOLLARDS AND CHAIN

# ADDITION OF BOLLARDS/CHAIN FOR PEDESTRIAN/VEHICLE PROTECTION



#### +/- 650 LINEAL FEET – APPROX \$50K-\$60K

GO TO RESTROOMS

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# ADDITION OF 2 PUBLIC RESTROOMS, WEST AND SOUTH



#### NOTE THAT THESE ARE GENERAL LOCATIONS FOR THE RESTROOMS

#### WHAT WILL THEY LOOK LIKE?

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GO TO RESTROOM SLIDES



(COURTESY OF PUBLIC RESTROOM COMPAY)

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(COURTESY OF ROMTEC)

#### **BREAKDOWN OF ESTIMATED PARTS FOR ONE PUBLIC RESTROOM – 6 STALLS PER**

ITEM	ITEM DESCRIPTION	UofM	QUANTITY	UNIT PRICE	EXTENSION
1	MOBILIZATION/DEMOBILIZATION/BONDING	EA	1		
2	CONSTRUCTION STAKING OF BUILDING PAD & BUILDING	LS	1		
3	EROSION CONTROL, PER PLANS	LS	1		
4	CLEARING, GRUBBING, ROUGH GRADING (50x50) PRELIMINARILY	LS	1		
5	STRUCTURE EXCAVATION AND BACKFILL, COMPLETE PER PLANS	EA	1		
6	F&I BASE AGGREGATE, (3/4"-0") PER PLANS, COMPACTED, 50x50x1, COMPLETE PER PLANS	TONS	60		
7	F&I BUILDING PACKAGE, CONCRETE BASE, PLUMBING, ELECTRICAL/WATER, FRAMING, COMPLETE	EA	1		
8	F&I 2" WATER MAIN TO RESTROOM (INCL FREEZE PROTECTION)	LF	100		
9	F&I WATER METER/RP DEVICE, COMPLETE PER PLANS	LS	1		
10	F&I ELECTRICAL EQUIPMENT, COMPLETE, INCL TRENCHING, PER ELEC/CIVIL PLANS	LS	1		
11	F&I AC HARD SURFACE, TO DRAIN, ADA PAINT/PER PLANS	TONS	100		
12	F&I NEW LUMINAIRES, INCLUDING BASE/ELEC CONNECTIONS, COMPLETE	EA	2		
13	SAN SEWER CONN. ALLOWANCE, INCL TRENCHING, PIPE, CONNECTIONS, COMPLETE PER PLANS	LS	1		
14	STORM SEWER CONN. ALLOWANCE, INCL TRENCHING, PIPE, CONNECTIONS, COMPLETE PER PLANS	LS	1		
15	FURNISH RECORD DRAWINGS (REQUIRED COMPLETE BY PROJECT COMPLETION)	LS	1		
16	SHIPPING OF BUILDING PACKAGE TO HAMMOND (EST)	LS	1		
subtotal >					\$ -

NOTE THE REQUIREMENTS FOR ADAAG CONSTRUCTION – THIS ESTIMATION OF MATERIALS DOES NOT INCLUDE ENGINEERING, CONTINGENCY OR PERMITTING – THIS SPREADSHEET IS ONLY A MATERIALS ESTIMATION.

ADAAG CONSTRUCTION WILL REQUIRE BIDDER PREQUALIFICATION

### COSTS FOR 2 – 6-STALL RESTROOMS: APPROX \$2.4M

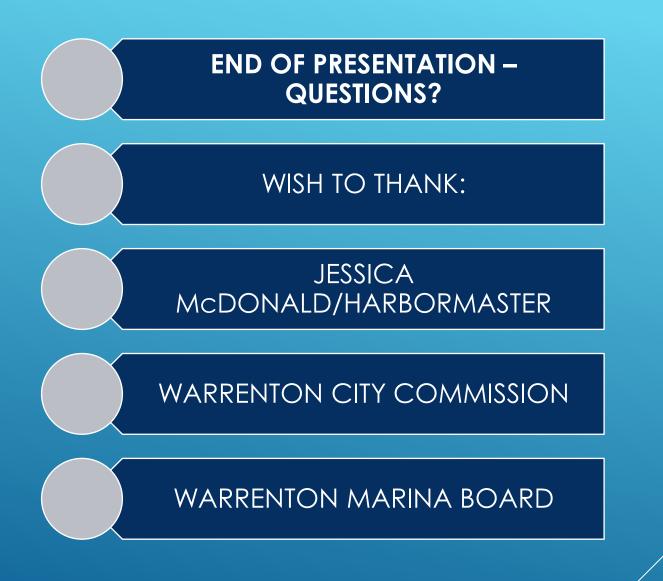
AFTER WE RECEIVE YOUR WRITTEN COMMENTS ON THE VISIONING PROCESS SHOWN HERE, WE WILL TURN THIS VISUAL PRESENTATION INTO 2 SHORT, WRITTEN REPORTS, AS OUR PROPOSALS STATE, FOR YOUR USE IN PLANNING AND POSSIBLE FUNDING SCHEDULES.

WE KNOW THAT THESE IMPROVEMENTS COST A GREAT DEAL OF MONEY – AND ARE LONG-TERM OR MANY YEARS TO FULFILL, BUT THESE MARINAS DESERVE YOUR ATTENTION AND COMMITMENT.



THIS IS POINT ROBERTS (ONE OF THE MOST NORTHWESTERN POINTS IN WASHINGTON STATE) LOOKING SOUTH – INTO VANCOUVER ISLAND

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