<u>Chai</u> Tom				PLANNING COMMISSION REGULAR MEETING			
		sioners		DECEMBER 9, 2014 AT 6:30 PM			
		ggiani enwood		LIBRARY MEETING ROOM			
Tom	Mc	Gann		AGENDA			
Scott John	0						
		emhildt	1.	CALL TO ORDER			
City			2.	ROLL CALL			
		Greenwood	Ch	airman Tom Bailer, Commissioners David Reggiani, John Greenwo	od, Tom	McGa	nn,
Assis Leif		g Planner		ott Pegau, John Baenen, and Allen Roemhildt	,		,
		6		APPROVAL OF AGENDA (voice vote)			
4	A	PPROVAI		F CONSENT CALENDAR (voice vote)			
				ctober 28, 2014 Public Hearing		Page	2
				ctober 28, 2014 Regular Meeting		-	
				sed Absence of John Greenwood, Scott Pegau, and John Baenen for		uze	50
	с.			ular Meeting	000000		
5	n		U	S OF CONFLICTS OF INTEREST			
5. 6.		ORRESPC					
0.				a DOT Public Notice		Daga	70
						-	
-				a DNR Public Notice	•••••	Page	9-12
7.				FIONS BY AND PETITIONS FROM VISITORS			
	a.	Guest Spe				D	10.14
				se – Copper River Watershed Project	•••••	Page	13-16
				nments regarding agenda items (3 minutes per speaker)		_	
				EPORT	••••••	Page	17
9.				LANEOUS BUSINESS			
				iew - Harborside Pizza		-	
	b.			oposals for Lot 4A, Block 5, North Fill Development Park Addition		Page	57-92
				prises	U		
		•	-	bek age of Eyak	U		
				rage			
		•		iam Sound Science Center	-		
	c.			oposals for Lot 2, Block 7, North Fill Development Park	-	.Page	93-123
				d Trailers, Inc		U	
				foods Corp	•		
				age of Eyak			
				iam Sound Science Center	U	D	104 106
				Parking Recommendation to City Council		-	
10	e.			Discussion	•••••	Page	127-142
10	. U.			BUSINESS		D	1 10 101
	a.	-		iscussion	•••••	Page	143-181
11	. Pl	ENDING (_	
	a.			14 Calendar		0	
	b.	•		Calendar	•••••	Page	183
				RTICIPATION			
13	. C	OMMISSI	ON	COMMENTS			
14	. A	DJOURNN	MEN	NT			

If you have a disability that makes it difficult to attend city-sponsored functions, you may contact 424-6200 for assistance. Full Planning Commission agendas and packets are available online at www.cityofcordova.net.

PLANNING COMMISSION PUBLIC HEARING OCTOBER 28, 2014 AT 6:30 PM LIBRARY MEETING ROOM MINUTES

1. CALL TO ORDER

Chairman *Tom Bailer* called the Planning Commission Public Hearing to order at 6:30 PM on October 28, 2014 in the Library Meeting Room.

2. ROLL CALL

Present for roll call were Chairman *Tom Bailer* and Commissioners *David Reggiani*, *Tom McGann*, and *Allen Roemhildt*. Commissioners *John Greenwood*, *Scott Pegau*, and *John Baenen* were absent.

Also present were City Planner, Samantha Greenwood, and Assistant Planner, Leif Stavig.

3 people were in the audience.

3. PUBLIC HEARING

a. Variance Request for Ronald and Anne Winters

Bailer acknowledged the additional correspondence from Cindy Hjort.

<u>*M/Reggiani S/Roemhildt*</u> to recess.</u> No objection; meeting recessed.

Bailer called the Public Hearing back to order at 6:44 PM.

4. ADJOURNMENT

<u>*M/Reggiani S/McGann*</u> to adjourn the Public Hearing at 6:45 PM; with no objection, the meeting was adjourned.

Approved:

Tom Bailer, Chairman

Leif Stavig, Assistant Planner

Planning Commission Public Hearing - Minutes October 28, 2014 Page 1 of 1

PLANNING COMMISSION REGULAR MEETING OCTOBER 28, 2014 AT 6:45 PM LIBRARY MEETING ROOM MINUTES

1. CALL TO ORDER

Chairman *Tom Bailer* called the Planning Commission Regular Meeting to order at 6:45 PM on October 28, 2014 in the Library Meeting Room.

2. ROLL CALL

Present for roll call were Chairman *Tom Bailer* and Commissioners *David Reggiani*, *Tom McGann*, and *Allen Roemhildt*. Commissioners *John Greenwood*, *Scott Pegau*, and *John Baenen* were absent.

Also present were City Planner, Samantha Greenwood, and Assistant Planner, Leif Stavig.

3 people were in the audience.

3. APPROVAL OF AGENDA

<u>M/Reggiani S/McGann</u> to approve the Agenda. Upon voice vote, motion **passed** 4-0. Yea: <u>Bailer, Reggiani, McGann, Roemhildt</u> Nay: None Absent: <u>Greenwood, Pegau, Baenen</u>

4. APPROVAL OF CONSENT CALENDAR

- a. Minutes of 9-9-14 Regular Meeting
- b. Minutes of 9-24-14 Special Meeting
- c. Minutes of 9-24-14 Work Session

M/Reggiani S/McGann to approve the Minutes as listed on our packet. Upon voice vote, motion passed 4-0. Yea: Bailer, Reggiani, McGann, Roemhildt Nay: None Absent: Greenwood, Pegau, Baenen

5. DISCLOSURES OF CONFLICTS OF INTEREST

None.

6. CORRESPONDENCE

- a. DNR Public Notice
- b. Email from Jerry and Vicki Blackler

7. COMMUNICATIONS BY AND PETITIONS FROM VISITORS

Planning Commission Regular Meeting - Minutes October 28, 2014 Page 1 of 4

a. Audience comments regarding agenda items

None.

8. PLANNER'S REPORT

a. Second Street Parking

b. Platting

S. Greenwood introduced *Weston Bennett*, the new Superintendent of Facilities. She said that they just received the appraisals for the Mobile Grid lot and the Impound Lot, so those will be back at the December 9th meeting with proposals so they are out for 30 days. She asked how the commission felt about the Legal Briefings and Zoning Bulletins. After brief discussion, the commission indicated they could go either way.

S. Greenwood asked about the budget for the commission. There is currently \$6,500 budgeted for the commission. *Roemhildt* and *Baenen* are both going to AML training session; that's what the money is going towards. Last year *Holly Wells*, City Attorney, came to discuss variances. Staff want to keep the \$700 for ink. *Roemhildt* said that they may have to train new commissioners in the coming year.

S. Greenwood said that the next Regular Meeting is on a holiday and she isn't sure that they even need a meeting. If something came up, they could have a Special Meeting.

Stavig provided an update on the Roads Inventory item. He just got done updating the GIS with the subdivisions that had not been added for several years. The next step towards addressing is getting the road inventory fixed, a component of that will be changing street names for duplications.

Reggiani referenced the Second Street Parking memo attached to the Planner's Report. He said that he sees how problematic it is with the angles. Coming up the hill from Council Ave. and turning right on Second Street; the first couple of spots are the worst. He asked what the Planning Commission's role was when it came to parking? He would be interested in seeing the street go back to parallel parking. **Randy Robertson**, City Manager, talked about how they needed to do a survey first. **Reggiani** said he wanted to push this forward. **Robertson** said that this is a community decision and they want to solicit the commission and City Council's opinion. **Reggiani** said if it needs to be a recommendation he would like to see that as an action item at a future meeting. **McGann** asked about the size of the sidewalk and if there was a way to decrease it. **S. Greenwood** said that they could look at it if they redo the road.

S. Greenwood explained the administrative plat process. She said that the administrative plats are a benefit to the City as they dissolve lot lines creating larger lots. *Reggiani* clarified that this was consistent with current code and did not require a change.

9. NEW/MISCELLANEOUS BUSINESS

a. Variance Request for Ronald and Anne Winters

M/McGann S/Roemhildt that the request by Ronald and Anne Winters for a variance from the required rear setbacks of 15 feet and side setbacks of 5 feet of the Medium Density Residence District for one foot setbacks for their garage be approved as contained in the staff report with the special condition that the variance shall be contingent on the final closing and purchase of the property.

McGann said that it was clear that Section A does not apply. Since all four conditions need to be complied with for the variance to be granted, that's as far as they need to go. *Reggiani* said he agreed with the staff

Planning Commission Regular Meeting - Minutes October 28, 2014 Page **2** of **4** report and their analysis of the different conditions in the Suggested Findings and their recommendation to deny it. *Bailer* asked if they denied the variance where would it leave the property owner? *S. Greenwood* said they would still have the ability to purchase the property and they can appeal to the Board of Adjustment for the variance. The purchase is not dependent upon the variance. She said it would eliminate the sale that is currently in place unless they appealed and City Council overturned your decision. She said that she is required to meet those four conditions, and if they want to go through the conditions and not agree with the Planner, they don't have to accept her recommendation.

Roemhildt confirmed that the lot next to the lot in question was nonconforming because of the front lot line.

Reggiani asked if there would be a spot in the back of the house for the garage that would meet the setbacks. *S. Greenwood* said that there would not.

S. Greenwood said that the current financing company will not move forward with the sale without a variance in place.

Roemhidt said that there is an exceptional physical circumstance that applies to the property with the fact that the garage was accidentally placed on City property.

Bailer said that he would vote in favor of the variance and see where it goes. He said that the building is there, the property is there, and it's being used. His initial thought was that it's being used, they aren't going to take it, they may as well get it on the tax rolls. **Roemhildt** agreed and said that where the property is located is physical circumstance to pass the variance.

<u>Upon voice vote, motion failed 2-2.</u> <u>Yea: Bailer, Roemhildt</u> <u>Nay: Reggiani, McGann</u> <u>Absent: Greenwood, Pegau, Baenen</u>

b. Disposal of a Portion of ATS 220

M/Reggiani S/McGann to recommend to City Council to dispose of a portion of ATS 220 which contains the area of encroachment only by direct negotiation with the special condition that Ocean Beauty shall incorporate the additional land purchased from the City in the required re-plat of Lot 1 Block 1 and a replat of ATS 220 in that area.

Reggiani said that he reviewed it and it looks like the as-built that was recently commissioned found that the building was a little bit off their lines. This looks like a straight-forward solution. **McGann** said he agreed. **Bailer** clarified that Ocean Beauty was encroaching and asked what the difference was between this and the **Winters'** lot. **S. Greenwood** said that for the **Winters** the commission recommended to sell to the setbacks; City Council changed that to a foot from the building. Ocean Beauty is just asking to purchase enough for their current and existing building.

Upon voice vote, motion **passed** 4-0. Yea: *Bailer*, *Reggiani*, *McGann*, *Roemhildt* Nay: None Absent: *Greenwood*, *Pegau*, *Baenen*

10. PENDING CALENDAR

a. November 2014 Calendar

Planning Commission Regular Meeting - Minutes October 28, 2014 Page **3** of **4**

b. December 2014 Calendar

Bailer clarified that Second Street parking would be on the December Regular Meeting.

McGann said it was time to revisit Chapter 16. *Reggiani* said he's been frustrated that they did so much work on those codes.

Bailer asked about the critical habitat note that was in the Planner's Report. *S. Greenwood* said she doesn't feel like they can amend a public document, but they could put a footnote on it. *Bailer* wanted to look at their options.

11. AUDIENCE PARTICIPATION

None.

12. COMMISSION COMMENTS

Roemhildt asked what Chapter 16 was. McGann said Building Codes.

McGann said he felt bad going against the *Winters*' variance request, but he thinks it is the correct move. He recognized that if City Council had sold the *Winters* all the land they would not have needed the variance, but he is glad they went the direction they did.

Bailer asked Bennett to introduce himself.

13. ADJOURNMENT

<u>M/Reggiani S/McGann to adjourn the Regular Meeting at 7:15 PM; with no objection, the meeting was adjourned.</u>

Approved:

Tom Bailer, Chairman

Leif Stavig, Assistant Planner





Department of Transportation and Public Facilities

STATEWIDE AVIATION Northern Region Aviation Leasing

> 2301 Peger Road Fairbanks, Alaska 99709-5399 Main; 907-451-2216 Fax: 907-451-2253

November 6, 2014

Re: Cordova Airport Permit ADA-71656 Public Notice

RECEIVED NOV 1.0 2014 City of Cordova

DISTRIBUTION

Enclosed is a Public Notice regarding a leasehold interest disposal of State land. Public Notice is required by the Alaska Constitution.

We are sending you this copy for your information only; no action is required on your part. However, you are welcome to post this notice in the public view.

If you have any questions, please call me at (907) 451-5201.

Sincerely,

) show

Diana M. Osborne Airport Leasing Specialist

jkb

Enclosure: Public Notice

cc: Robert Mattson, Jr., Airport Manager

Distribution:

Chugach Alaska Corp., 3800 Centerpoint Dr., Ste. 601, Anchorage, AK 99503-5826 City of Cordova, PO Box 1210, Cordova, AK 99574 Eyak Corporation, PO Box 340, Cordova, AK 99574

"Keep Alaska Moving through service and infrastructure."

PROPOSAL TO AMEND A STATE AIRPORT PERMIT: The Alaska Department of Transportation & Public Facilities proposes to increase the area of Permit ADA-71656, Parcel D, H, and I, consisting of approximately 36.4 acres, at Cordova Airport to include Parcel K, consisting of approximately 4 acres; for a total of 40.4 acres, to expire July 1, 2016. Applicant: Alaska Department of Natural Resources, Division of Forestry. Annual rent: N/A. Authorized uses: non-aviation – Manage the harvesting of white spruce for personal use; issuing woodcutting permits and monitoring the harvest.

Written comments must be received by 4:30 p.m., December 8, 2014, after which the Department will determine whether or not to amend the lease. The Department's decision will be sent only to persons who submit written comment or objection to the Department, at the address and by the date and time specified in this notice, and include their return address. Information is available from Diana M. Osborne, Aviation Leasing, 2301 Peger Road, Fairbanks, AK 99709-5399, (907) 451-5201. Anyone needing hearing impaired accommodation may call TDD (907) 451-2363.

The Department reserves the right to correct technical defects, term, or purposes and may reject any or all applications or comments.

Kenlope adb BY: Penelope Adler, SR/WA, CM

Penelope Adler, SR/WA, CM Chief, Northern Region Aviation Leasing

DATE: Movember 5, 2014

PLEASE LEAVE POSTED AND FULLY VISIBLE THROUGH DECEMBER 8, 2014

Note: A person who removes, obscures or causes to be removed or obscured a notice posted in a public place before the removal date stated in this notice is subject to disqualification from receiving any lease, permit, or concession related to this notice.



Department of Natural Resources

Division of Mining, Land & Water Southcentral Regional Office

> 550 West 7th Avenue, Suite 900 Anchorage, Alaska 99501-3577 Main: 907.269.8503 TDD: 907.269.8411 Fax: 907.269.8913

November 21, 2014

State of Alaska Department of Natural Resources Division of Mining, Land, and Water Southcentral Region Office 550 W. 7th Avenue, Suite 900C Anchorage, AK 99501-3577

Public Notice ADL 231942: Applicant: Trident Seafoods Corporation Private easement for fish processing outfall line Cordova, Alaska

Pursuant to Alaska Statue (AS) 38.05.850, the Department of Natural Resources (DNR), Division of Mining, Land, and Water (DMLW), Southcentral Region Office is considering an application to grant a private easement for ADL 231942, an existing outfall line from a fish processing plant in the city of Cordova, extending into Orca Inlet. The outfall line is located within the northwest quarter of Section 28 of Township 15 South, Range 3 West, Copper River Meridian, Alaska.

The purpose of the outfall line is to provide disposal of seafood processing wastes. The easement for the outfall line is expected to be approximately 1,100 feet in length and 30 feet in width, over State-owned and DMLW-managed tidal and submerged lands. The final easement area and location will be determined subsequent to DMLW's receipt of a required as-built record of survey produced to DNR's specifications. Please see the attached drawing for imagery of the proposed easement.

Members of the public and interested parties are invited to comment on this proposal. <u>DMLW</u> <u>must receive written comments no later than 5:00 pm December 22, 2014.</u> In order to be given full consideration, all comments should clearly explain the facts on which they are based and how they pertain to the proposed action.

Comments, questions, or requests for further information should be directed to the attention of Carol Hasburgh at the Southcentral Region Office, 550 W. 7th Ave, Suite 900C, Anchorage, Alaska 99501-3577; email <u>carol.hasburgh@alaska.gov</u>; telephone (907) 269-7480, fax (907) 269-8913. Comments may also be received via the Online Public Notices Website at: <u>https://aws.state.ak.us/OnlinePublicNotices/Default.aspx</u>

The State of Alaska, Department of Natural Resources complies with Title II of the Americans with Disabilities Act of 1990. Individuals with disabilities who may need auxiliary aids, services, or special modifications to participate may contact the TDD number at (907) 269-8411. Copies

of the Alaska Statute referenced above may be accessed on-line by searching the State of Alaska website at <u>www.legis.state.ak.us/folhome.htm</u>.

The Division of Mining, Land, and Water, Southcentral Region Office reserves the right to waive technical deficits in this notice.

/s/ Clark Cox, Regional Manager Division of Mining, Land, and Water Southcentral Region Office



Trident Seafoods Corporation - Cordova South

Outfall Terminus Location





Cordova's First Bioswale

Using native vegetation to filter stormwater entering Odiak Pond



COPPER RIVER WATERSHED

> In an effort to improve water quality flowing into Odiak Pond, a type of vegetative filter called a bioswale was constructed behind the Cordova Community Medical Center. Runoff from the parking lot and street drains into and runs through the bioswale and into the pond during Cordova's frequent rainstorms.

> The stormwater runoff contains sediments and pollutants from streets, houses, and cars that can harm salmon habitat. Native plants such as columbine, iris, and willow are planted in the bioswale, and these plants are key to the bioswale's success.

The native plants filter the water with their roots, extracting pollutants and successfully breaking down contaminants. The plants also stop sediment and debris from draining into the pond. The bioswale's filtration process provides protection for the environment, allowing cleaner water to flow into the pond. Odiak Pond is spawning and rearing habitat for coho salmon, so keeping the pond clean is very important.

Copper River Watershed Project and its partners are continually working to restore Odiak for fish, wildlife and people, as a home as well as an outdoor space for community members and visitors to enjoy. By working to preserve Odiak watershed, we are also helping to conserve biodiversity of salmon stocks on the Copper River Delta, which is important to the long-term health of regional fisheries.



Youth Involvement

Students from Cordova High School and Bidarki Summer Camps helped to collect native plant seedlings from the Copper River Delta and transplant them into the channel to improve the ability of the bioswale to filter stormwater runoff. Students also created an educational sign that will be permanently installed by the bioswale to educate visitors to the site about how it works (flip over to see a copy of the sign).



The bioswale project was completed with help from the City of Cordova, the Cordova Community Medical Center, Alaska Plant Material Center, and local students and volunteers. Supported with grants from the Prince William Sound Resource Advisory Committee, U.S. Forest Service Chugach National Forest, U.S Fish & Wildlife Service, National Association of Counties Research Foundation, and National Fish and Wildlife Foundation 5-Star Restoration Program: Southern Company, FedEx and EPA.

Nature's Filter

This garden, called a bioswale, works as a natural filter of dirt, gravel, debris, and other contaminants that are carried by stormwater run-off.

What a Bioswale Does

Stormwater run-off flows from hard surfaces such as rooftops, parking lots, and roads, and makes its way into local waterways during Cordova's frequent rainstorms. Stormwater carries micro-pollutants from developed areas that are harmful to salmon habitat. By decreasing the amount of pollutants entering the pond, the bioswale will improve salmon habitat.

How it Works

Stormwater seeps through the plants and is absorbed into the ground. Large debris and sediments are trapped by plants while micropollutants are broken down through various chemical processes in the plants and soil.

> Odiak Pond watershed provides spawning and rearing habitat for coho salmon. By preserving salmon habitat in Odiak Pond, we are helping to conserve biodiversity in the coho salmon populations around Cordova. Diversity of salmon stocks is vital to maintaining a healthy, sustainable fishery in the surrounding Copper River watershed.

4 of 183

With support from: Alaska Plant Material Center Cordova School District National Association of Counties Research Foundation Prince William Sound Science Center Native Village of Eyak

National Fish & Wildlife Foundation 5-Star Restoration Program: Southern Company, FedEx and EPA United States Fish & Wildlife Service

Sign created by Cordova High School students Katie Bailer, Gabrielle Brown, and Cadence Moffitt

COPPER RIVER WATERSHED PROJECT RESTORED Restoring salmon habitat in Cordova's Odiak Pond



Odiak Pond and stream are still home to coho salmon, a resilient fish that has persevered in this watershed as the community of Cordova has grown up around it. In July, 2014, remnants from the Copper River/Northwest Railroad were removed and an open stream channel was re-established.

The goals of this restoration effort were to support unimpeded movement of juvenile and adult fish, in particular coho salmon, between spawning and rearing habitat and to help return a more natural flow of water through the watershed.

With the assistance of the City of Cordova, the National Civilian Conservation Corps Gold 7 crew and the expertise of the U.S. Forest Service, the old railroad materials were removed using minimal heavy equipment. Dormant willows that had been collected earlier in the year by Cordova High School students were used for brush-layering, a technique developed by Alaska Department of Fish & Game for quickly re-establishing stream banks.

We wish to celebrate this community partnership that has resulted in onthe-ground results for coho salmon -- improvement of their habitat right in the heart of Cordova. This restoration work will provide educational and recreational opportunities for the community of Cordova for generations to come and will help sustain local coho populations by protecting the genetic diversity of individual stocks.



The trees in the middle of this photo are growing through and around the old railroad trestle. An old wooden culvert connects the stream to the pond.



By removing the old culvert the stream is able to flow freely into the pond.



This restoration project was facilitated by the Copper River Watershed Project (CRWP) under award NA11NMF4380268 from National Oceanic and Atmospheric Administration, U.S. Department of Commerce, administered by the Alaska Department of Fish & Game. CRWP also wishes to thank Gabrielle Brown, the City of Cordova, Alaska Forum on the Environment, the Erbey family, the Native Village of Eyak, Americrops NCCC Gold 7crew, Trident Seafoods, and the U.S. Forest Service Cordova Ranger District for their assistance and support.

Planner's Report

To:	Planning Commission
From:	Planning Staff
Date:	12/4/14
Re:	Recent Activities and Updates

- Two building permits issued since last Planning Commission Regular Meeting.
- CTC skill hill lease will be effective January 1.
- Safe Routes to School contract passed City Council; project will begin in May 2015.
- UV equipment RFP passed City Council and design is moving along.
- Tom McGann and Scott Pegau were re-appointed to the board.
- Impound will move to the Mile 17.
- City purchase of Church's property should be completed by January 1.
- Winters property purchase is moving forward.
- Dialog with PWSSC on fill lot and contract.
- Presented recycling changes to CC and will be implementing changes this month.
- Completed budgets and working through fine details.
- Staff added a footnote to the 'Summary of 3 Community Meetings for the South Fill Commercial Area' document. To view the change in the context of the entire document, go to this link:

http://www.cityofcordova.net/images/FINAL%20Southfill%20Project%20Summary.pdf

Waterfront/SFCA Goals

The overall refined goals for the waterfront area, including the SFCA are:

- Improve waterfront access to both residents and visitors.
- Create a visually attractive waterfront business district.
- Compliment and contribute to the vitality of the downtown area.
- Improve the strength and diversity of Cordova's economy.
- Create a safe and pedestrian-friendly waterfront.
- Consider and protect critical habitat.¹

Project Consideration Criteria

- Meet the overall goals and will align with other waterfront planning/development efforts/projects.
- Economically feasible available capital and long-term operation cost and maintenance.

¹ This goal is not intended to designate any area as a critical habitat, nor is this area at the time of this writing designated as critical habitat by federal, state, or city agencies.

Memorandum

To:	Planning Commission
From:	Planning Staff
Date:	12/4/14
Re:	Site Plan Review – Harborside Pizza

PART I – GENERAL INFORMATION

Requested Actions:	Site Plan Review
Applicant:	Carbon Neutral Alternatives
Owner Name:	Harborside Pizza
Address:	131 Harbor Loop Rd.
Legal Description:	Lot 8, Block 2, South Fill Development Park
Parcel Number:	02-473-144
Zoning:	Waterfront Commercial Park District
Lot Area:	12,986 sq. ft.
Attachments:	Attachment A: Location Map
	Site Plan Review Application
	Construction Documents

PART II – BACKGROUND

Carbon Neutral Alternatives is proposing to construct a 1,352 sq. ft. building for Harborside Pizza on the existing foundation.

PART III – REVIEW OF APPLICABLE CRITERIA & SUGGESTED FINDINGS

Chapter 18.39 ZONING – WATERFRONT COMMERCIAL PARK DISTRICT

The development of an eating and drinking facility is a permitted principal use. A Site Plan Review is required in the Waterfront Industrial District.

Chapter 18.42 ZONING – SITE PLAN REVIEW – Purpose.

Whenever required by this code or the city council, a site plan review shall be completed by the planning commission with a recommendation to the city council. Prior to the issuance of a building permit, the city council must approve the site plan for the project.

Chapter 18.48 ZONING - OFF-STREET PARKING, LOADING AND UNLOADING

Eating and drinking establishments require "one space for each employee of the largest shift, plus one space for each ten seats." According to the submitted plans, the maximum number of employees in the kitchen is two, and the maximum for the dining room is 20 for a total of four required parking spaces. The site plan contains six.

PART IV – SUGGESTED SPECIAL CONDITIONS

1. The Planning Department must be in receipt of a Plan Review from the State of Alaska Fire Marshal prior to issuance of a Building Permit.

Site Plan Review – Harborside Pizza Page 1 of 3

2. Carbon Neutral Alternatives will consult with the Public Works Department to install a water meter and backflow preventer prior to the issuance of a Building Permit.

PART V – STAFF RECOMMENDATION

Staff recommend that the Planning Commission recommend the City Council approve the Site Plan Review requested by Carbon Neutral Alternatives to construct a 1,352 sq. ft. building for Harborside Pizza on Lot 8, Block 2, South Fill Development Park based on the findings and with the special conditions as contained in the staff report.

PART VI - SUGGESTED MOTION

"I move that the Planning Commission recommend the City Council approve the Site Plan Review requested by Carbon Neutral Alternatives to construct a 1,352 sq. ft. building for Harborside Pizza on Lot 8, Block 2, South Fill Development Park based on the findings and with the special conditions as contained in the staff report."

ATTACHMENT A







BUILDING PERMIT APPLICATION City of Cordova, Alaska

INSTRUCTIONS	PERMIT TYPE FEE	
Print or type requested information. Incomplete applications	C Residential Building Permit	\$50
will be returned to the applicant and will delay issuance of	Multi-Family Building Permit	\$100
the permit. The Building Permit Application also serves as	Commercial Building Permit	\$150
an application for a Zoning Compliance Certificate.	Industrial Building Permit	\$200

	APPLICANT INFORMATION	
Name:	CARBON DEUTRAL ALTERNATIVES	
Mailing Address:	P.O. Box 383	
City/State/Zip:	COEDOUA, ALASKA 99574	
Phone Number:	(928) 699-6561	
Email Address:	CND. ALASKA @ GMAIL. COM	
	OWNER INFORMATION*	
Name:	HARBORSIDE FIZZA	
Mailing Address:	P.O. Box 1606	
City/State/Zip:	CORDOVA, ALASKA 99574	
Phone Number:	(907) 424-3730	
Email Address:	HARBORSIDE PIZZA & GMAIL. COM	
*If different from applicant.		
Eller Contractor	CONTRACTOR INFORMATION*	
Contractor Name & Lice	nse No .: CAEBON NEUTRAL ALTERNATIVES # 8392	
Contractor Name & Lice	nse No.:	
Contractor Name & Lice	nse No.:	
Contractor Name & Lice	nse No.:	
*List all contractors working on proje	ect. Contractors must have a Cordova Business License.	
Act in section	PROJECT INFORMATION	
Scope of Work:	NEW CONSTRUCTION ON EXISTING FOUNDATION	
Construction Start Date:	ESTIMATED	
Estimated Cost:		
	PROPERTY INFORMATION*	
Address: 131 HARROR LOOP RD, LORDOVA, ALASKA 99574		
Legal Description:	Lot 8, Block 2, South Fill Development Park	
Tax Lot No.:	02-473-144	
Zone District:	Waterfront Commercial Park District	
*Planning Department can fill out if a		

Page 1 of 2

Depariha S	oono of Work		and the second second	INFORMATION	A	
	cope of Work			CONSTRUCTION OF		
and a second second second second	TO TAK			USTING FOUNDATIO	N. TRAT	NITICUAL
WOOD	FRAMAIN	16 WITH	ONEU	DAY SLOPED ROOF.		
-						
Dimension	s, height, and s	auare footage	of construc	tion		
	DING FOOTF			2 8'x 8' POPOUTS =	1777 172	line were
	ff-street parkin			and a second of the second sec		APROX HEIGHT
	off-street parki			NCLUDING 1 4		SPACE
	F	Front:	15'	A	Front:	34.8'
Requi	red zoning	Rear:	51	Contraction of the second	Rear:	15'
	tbacks:	Left:	51	Proposed setbacks:	Left:	75'
		Right:	51		Right:	9.6'
Required a	zoning height:			Proposed height:	16'	11.5
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2012	and the	OTHER Q	UESTIONS*	1.	-
Yes	No	Will you be	installing a	private septic system?	-	
Yes	No	Are you dev	eloping a ne	ew driveway that exits ont	o a State Ro	ad?
Yes	No	Does proper	ty contain d	rainages, creeks, wetlands	s, or other w	ater features?
Yes	No	Will you be	using fill to	develop the lot?		
Yes	No	Is this Building Permit for a Mobile Home?				
Yes	No	Is the proper	ty within a	Flood Plain?		
Ves	No			the Eyak Lake Area Meriting Special Attention?		
Yes	No		d to get a Sales Tax Exemption Card (\$150)?			
Yes	No		to have a Site Plan Review (Zones WCP or WI)?			
*See Planning	Staff for additional in	formation if you dor				
		A Lord		CHMENTS	and the second	
	construction o	r substantial	changes:	Residential building la	-	· · · · · · · · · · · · · · · · · · ·
hingain!	d Plot Plan	ALC: NO.		any Commercial or In		ilding:
	Elevation Draw levation Drawi			Fire and Life Safety	Review	
Recomme		ng		Other:		
As-Bui						
Photos						
	al Permits:		_			
Varian	ce Permit					
Condit:	ional Use Pern	nit			-	
1 11	112420	APP	LICANT C	CERTIFICATION	1.20	
documentatio	on is, to the best of	f my (our) knowle	edge, true and c	mation provided within this app accurate. Furthermore, I (we) he sation for purposes of conducting	reby authorize	the City and its
Applicant	t Signature:	1	50	Date		_
Print Nan	ne and Title:	LARAM	у Зан	MID - PARTNE	E	-

Page 2 of 2

HARBORSIDE PIZZA

CORDOVA, ALASKA

CONSTRUCTION DOCUMENT SET

Project Nov 13046.01



Issue Date: 11/11/2013

900 West Fifth Avenue Anchorage, Alaska 99501 (907) 272–3567

191 E. Swanson Avenue Wasilla, Alaska 99654 (907) 373–7503

STRUCTURAL ENGINEERING	PDC INC
	2700 GAMBELL STREET SUITE 500, Anchorage, Alaska 99503
MECHANICAL ENGINEERING	RSA ENGINEERING INC
	2522 ARCTIC BOULEVARD SUITE 200, Anchorage, Alaska, 99503
ELECTRICAL ENGINEERING	RSA ENGINEERING INC
	2522 ARCTIC BOULEVARD SUITE 200, Anchorage, Alaska 99503

213pm



PLANNING

ARCHITECTURAL SPECIFICATIONS

SECTION 05500, MISC. METAL FABRICATIONS

SECTION 06100, ROUGH CARPENTRY

EXCIDENT VORMA INVESTIGATION STRUCTURAL FRANKLINGER FRANKLING INCOMENTIAL FRANKLINGER FRANKLING INCOMENTIAL RELEASE FRANKLING INCOMENTIAL CONTACT WITH THE GROUND ON LESS THAN 12 ADDRE GRADE TO BE TREATED WITH AND UP-22 INFLITTATION BARGER TO BE BENAMIN GOVICE HOME SUCCE FLUS SOUNDE FORMULT UPDRESS OF THE FORST WITH AND UPDRESS SOUNDE FORMULT UPDRESS OF THE FORST WITH AND UPDRESS SOUNDE FORMULT UPDRESS OF THE FORST WITH AND UPDRESS SOUNDE FORMULT UPDRESS OF THE FORST WITH AND UPDRESS SOUNDE FORMULT UPDRESS OF THE FORST WITH AND UPDRESS OF TH

TYPAR OF ECUAL PROMOGE FRANKING BUBBERS OF THE TYPES AND SIES AND ON NOT SHOWN, CONFY WITH THE RECOMMENDATIONS OF THE "WAN-ULL FOR HOUSE FRANKING OF HE WATCHARL FORST PRODUCE ASSOCIATION (WYAC) AND THE WITEINATIONAL BULDING CODE: PROVIDE ASSOCIATION (WYAC) AND THE WITEINATIONAL BULDING CODE: PROVIDE I OF THE "WANAL FOR HOUSE FRANKING". EXTERIOR GYSUM SHEATHING SHALL COMPLY WITH ASTM C 931, TYPE X AS REQUIRED FOR FRE RESISTIVE RATED ASSEMBLIES.

SECTION 06200, FINISH CARPENTRY AND MILLWORK

THE FOLLOWING TYPES OF ARCHITECTURAL WOODWORK INCLUDE. BUT ARE NOT LIMITED TO, STANDING AND RUNNING TRIM, EXTER-IOR WOOD TRIM, WOOD HANDRAILS, PLASTIC LAMINATE SILLS, AND FIBERCLASS REINFORCED PANELS AND TRIM. FOR THE FOLLOWING TYPES OF ARCHITECTURAL WOODWORK COMPLY WITH THE INDICATED STANDARDS AS APPLICABLE: STANDING AND RUNNING TRIM AWI SECTION 300

EXTERIOR TRIM FOR PAINT OR CLEAR FINISH SHALL BE "D SELECT" WESTER RED CEDAR, WWPA.

EXTERIOR SIDING SHALL BE HARD-PLANK, AS MANUFACTURED BY JAMES HARDI OR APPROVED SUBSTITUTION. INSTALL IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

SECTION 07100, MEMBRANE WATERPROOFING

MEMBRARE WATERPROFING IS SHOWN ON THE DRAWNGS AND INCLUDES A MEMBRARE WATERPROFING SYSTEM COMPLETE FOR WATERPROFING SYSTEM SHALL BE THE STUTEMENE UN SOOD SYSTEM AS MANUFACTMED BY CRACE BULLINKE PRODUCTS OR EQUAL, PROVIDE WHERARE, PROVESS, MASTICS, FOREETION BOARD, AND OTHER ACCESSORES AS REQUIRED OF RECOMMENDED BY THE MANUFACTURER FOR INSTALLATION COMPLETE.

SECTION 07200, INSULATION

Ù

<u>of</u>

18

THE EXTENT OF THERMAL INSULATION WORK IS SHOWN ON THE DRAWINGS AND INCLUDES UNFACED BLANKET TYPE BUILDING INSUL-ATION COMPLYING WITH FS HI-1 52; TYPE L MANAFACTURER'S STANDARD SIZES; SELF SUPPORTING AND RIGH INSULATION SHALL BE EXTRUDED POLYSTIRED COMPLYING WITH ASTN CO48, TYPE N.

VAPOR RETARDER: 6410 MIL POLYETHYLENE FLM, WAX. PERMEANCE = 0.13 HATURAL COLOR. PROVIDE TAPE & SEALANT PER MANUFACTURER. 10 ML THICKNESS TO BE USED TO COVER THE GROUND IN THE CRAML SPACE.

SECTION 07410, PREFORMED ROOFING

THE EXTENT OF PREFORMED METAL ROOFING WORK IS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, PROVIDE 29 GAUGE STEEL ROOF WITH "ZINCALUME" HOT DIP ALLOY COATING AND ALL COMPLEMENTARY RIDGE, RAKE AND EAVE TRIM, TOP AND BOTTOW

SECTION 07900, SEALANTS AND CAULKING

WHERE WITTENED ALSO THE AND A SUBJECT TO ATTACK BY A DATA OF THE SUCCESS OF A DATA OF PROVIDE JOINT CLEANERS, PRIMERS, SEALERS, BOND BREAMER TAPE, BACKER RODS AND OTHER MISCELLANEOUS ACCESSORIES REQUIRED OR RECOMMENDED BY THE SEALANT MANUFACTURER FOR INSTALLATION COMPLETE

SECTION 08100, METAL DOORS & FRAMES

FIRE RATED METAL FRAME ASSEMBLIES, WHERE SHOWN ON THE DRAWINGS, SHALL COMPLY WITH ASTM E152, ANSI/JULIOB OR NIPA 252, KNOCK DOWN FRAMES TO COMPLY W'S S.D.I. 111A

HOLLOW METAL FIRE RATED DCORS SHALL COMPLY WITH S.D.I. 100 AND SHALL BEAR & LABEL INDICATING THE FIRE RATING. DOORS AND FRAMES SHALL BE TESTED, LABELD & CERTIFED BY A RECORNZED NATIONAL TESTING LABORATORY FOR THE RATINGS SHOWN. PROMOE FRAME, HANGES, WEATHERSTRIPPING AND LOW PROTLE INTERIOR THRESHOLD OR OTHER THRESHOLD SUITABLE FOR HANDICAP ACCESS.

SECTION 08200, WOOD DOORS & FRAMES

CLEAN FIRST. DEPART DOORS SHOW FOR FIRE APPLIED STAN AND TANGSARD. DEPART DOORS SHOW FOR MELL APPLIED STAN AND TANGSARD. LCCATE FIRST HARDWARE IN ACCORDANCE WITH RECOMMENDED LCCATE FIRST HARDWARE IN ACCORDANCE, PUBLICATED BY THE CONTINUE TO BUILDER'S HARDWARE, PUBLICATED BY THE DEPARTS PREVAILS IN ACCORDANCE, WITH HARDWARE SCHEDULE AND THE ACCORDANCE WITH HARDWARE SCHEDULE AND DEPARTS PREVAILS AND CONTINUED BY HARDWARE SCHEDULE AND DEPARTS PREVAILS AND CONTINUED BY THE SCHEDULE AND DEPARTS PREVAILS AND CONTINUES DEPARTS DEPARTS DEPARTS

SECTION 08600, PLASTIC WINDOW UNITS

THIS SECTION INCLUDES PVC FRAME WINDOW UNITS WITH DOUBLE PANE GLAZING UNITS. WINDOW UNITS SHALL BE OF PVC FRAME CONSTRUCTION AS MANUFACTURED BY MILGARD, INC. 5000 SERES OR APPROVED SUBSTITUTION. COMPLY WITH ANSI/WINA INDUSTRY STANDARDS FOR PVC MINDOWS.

WINDOW UNITS SHALL BE TESTED AND LABLED FOR STRUCTURAL PERFORMANCE (ASTM E 330), AIR INFILTRATION (ASTM E 283) AND WATER PENETRATION (ASTM E 331) AND WITH RESULTS COMPLIFIES WITH ANS/NEMA STANDARD LS.2 FOR CLASS TA MIRPOYED WIGHT HIS AND AND AND ASTA

WNOW UNTS SHALL BE EQUIPPED WITH HERMETICALLY SEALED INSULATING CLASS UNTS WITH SIGMA CLASS & SEALANT TIPE ECC CONSTRUCTION, AND DRY OR GAS-FALLED AIR SPACE EXCLOSED BY 2 SHEETS OF GLASS AND WARRANTED FOR A WINIUM OF TO YEARS AGAINST FALLINE OF HERMETIC SEAL

 INTERIOR GLASS: CLEAR FLOAT GLASS, FS DD-G-451 TYPE I, QUALITY q3. EXTERIOR GLASS: LOW-E FLOAT GLASS, FS DD-G-451 TYPE I.

PROVIDE TEMPERERED SAFETY GLAZE WHERE INDICATED ON THE DRAWINGS (HAZARDOUS LOCATIONS PER 2006 IBC).

WINDOW UNITS SHALL BE EQUIPPED WITH MANUFACTURER'S STANDARD ALUMINUM SCREEN FRAMES WITH REMOVABLE VIVI, FABRIC RETAINER SPLINE AND SCREEN MESH OF PLASTIC COATED FIBER THREADS, WOVEN AND FUSED.

OPERABLE WINDOW UNITS SHALL BE EQUIPPED WITH MANUFACTURES STANDARD SOLD WHITE METAL OR OF SOLD BRONZE ROTO-TYPE OPERATOR AND HOOK/CAM-TYPE LATCH AND LEVER & ALLOW FOR DEPARTOR AND HOOK/CAM-TYPE LATCH AND LEVER & ALLOW FOR

ECTION 06700, FINISH HARDWARE

FINISH HARDWARE IS AS SHOWN ON THE DRAWINGS AND SPECIFIED

	ABBRV.	MFR. LISTED
BUTTS	ST	STANLEY
CLOSERS STOPS	LÓN	LCN CLOSER GLYNN JOHNSON
LOCKSETS	GJ SC PE	SCHLAGE
GASKETS	PE	PEMKO
ALL HARDWARE	10 HAV	E BRIGHT BRASS FINISH MATCHING SCHLA SIBLE. ALL LOCKSETS SHALL HAVE LEVER
TYPE HANDLES	ALL 10	CKSETS TO HAVE REMOVABLE CYLINDERS.
TYPE HANDLES.	ALL LO	CKSETS TO HAVE REMOVABLE CYLINDER



HW-2 INTERIOR VESTIBULE DOOR 1.5 PR BUTTS 1 EA PASSAGE SET 1 EA WALL STOP 1 EA CLOSER

HW-3 TOILET ROOMS 1.5 PR BUTTS 1 EA LOCKSET (PRIVACY) 1 EA WALL STOP S HW-4 BOILER ROOM

1.5 PR BUTTS ST 1 EA LOCKSET (STORAGE) SC 1 EA WALL STOP GJ

ALL LOCKS SHOULD BE KEYED AND MASTERKEYED INTO THE MCROTERSE SSTEMA CONTINUE WITH OWNERS PROVIDE DIGHT (8) ALL EXTERNO DORES SHALL BE EQUIPPED WITH LOW-PROFILE THRESHOLDS APPROVED FOR HANDLAR ACCESSIBILITY, AND RECOMMENDED BY THE MANUFACTURER FOR EXTERIOR USE.

ST GJ LCN

SECTION 09250 GYPSUM DRYWALL

THE STOCION REQUEST ONE THE THAT AND THE STOCION REQUEST ONE THE ADD ONE AND ONE PRESH. FACED ON ME. PROVE LANDFACTURE'S STANDARD THE AND UNC ACCESSIONES AS RECEMENT OF CONJUNCT STANDARD THE ADD UNC ACCESSIONES AND RECEMENT OF CONJUNCT STANDARD THE ADD ACCESSIONES AND AND THE ADD ONE OF THE ADD ONE ADD ONE ADD ONE ADD ONE ADD ONE OF THE ADD ADD ONE ADD ONE

SECTION 09650 RESILIENT FLOORING

THIS SECTION INCLUDES RESILIENT FLOORING, RESILIENT BASE, RESILIENT EDGE STRIPS AND ADHEASIVES. RESILENT FLOORING SHALL BE AS INDICATED ON THE ROOM FINISH SCHEDULE OR AS SELECTED BY OWNER RESILIENT BASE SHALL BE OF RUBBER COMPLYING WITH FS-SS-W-40 TYPE I (4" HIGH. 1/8" CAUGE STANDARD TOP-SET COVE) RESILIENT EDGE STRIPS SHALL BE 1/8" THICK, HOMOGENOUS VINYL OR RUBBER COMPOSITION, TAPERED OR BULLNOSE EDGE, COLOR TO MATCH FLOORING. ADHESIVES SHALL BE AS RECOMMENDED BY FLOORING MANUFACTURER TO SUIT MATERIAL AND SUBSTRATA CONDITIONS.

ECTION 09900 PAINTING THIS SECTION INCLUDES INTERIOR AND EXTERIOR PAINTING AND STAINING.

EXTERIOR PAINT SYSTEMS

EPS-1 SOLID BODY STAIN FOR ALL EXTERIOR TRIM WOOD AND CEMENTITIOUS SIDING CEMENTITOUS SIGNG TWO COSTS - SOLD BODY STAIN ALL EXTERIOR WOOD TRIM TO BE PRIMED ON BACK SIDE. EPS-2 SEM-TRANSPARENT TSIAN FOR EXTERIOR WOOD SIDING & TRIM (WHERE NOTED): 0. LTMPS STAIN, SSM-TRANSPARENT WOOD STAIN.

EPS-3 FERROUS MATERIALS: ONE COAT - ALKYD METAL PRIMER TWO COATS - HEAVY DUTY ENAMEL

INTERIOR PAINT SYSTEMS

PS-1 DRYWALL WITH SEMI-GLOSS ALKYD ENAMEL ONE COAT - PRIMER/EALER ONE COAT - ALKYD SEMI-GLOSS ENAMEL

PS-2 WOOD COORS & FRAMES, INTERIOR WOOD TRIM AND INTERIOR WOOD WINDOW SURFACES. ONE COAT - WOOD FILLER TWO COATS - CLEAR POLYURETHANE SATIN FINISH

SECTION 10150 TOLLET ACCESSORIES

THIS SECTION INCLUEDS FURNISHING & INSTALLING MIRRORS, GRAB SHOL INSTALLARDN OF WICELLANEDUS BLOCHIC AND ILACKING AN ERCOMMENDED BY THE UNARCALINED SECTION ALSO INCLUES BLOCHING AND BACKING FOR DWERF FURNISHED AND INSTALLED TRASH DESPOSILA. OD SAMMERT FURNISHED AND INSTALLED PROVIDE THE FOLLOWING ITEMS FROM THE NOTED MANUFACTURERS OR AS APPROVED BY THE OWNER:

MIRRORS: BOBRICK 290 SERIES-GLASS 24x36 GRAB BLARS: BRADLEY 812 \times 30°, 36° AND 42° LONG WHERE SHOWN ON CONTRACT DRAWINGS.

PARK BLOCK 2 SOUTH FILL DEVELOPMENT PIZZA Alaska HARBORSIDE Cordova,

the wood

Paressonal P



Checked Job No. 13046.01 DUM Sheet Contents ACCHITECTURAL



PLANNING

COMMIS

DECEMB

MBER

REGULAR ? 9, 2014

MEETING

Architects

Architecto Alaska, Inc. architectosizola.com 3023 W. Sak Ann. Smith 403 Anachemagy, Alaska 99501-2029 307, 272, 3567 - 907, 277, 1732 (s

























PLANNING

MEETING


		1	2	3	4	
		GENERAL NOTES			STRUCTURAL ABBREVIATIONS	Architects
			U.S. STD. SIEVE BY WEIGHT	TWO OR MORE SPANS. ALLOW 1/8 INCH SPACING AT PANEL ENDS AND 1/4 INCH AT PANEL EDGES, UNLESS OTHERWISE RECOMMENDED BY THE	O AT LL LIVE LOAD	Alaska® An Alaskan Corporation
				THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION.	AFF ABOVE FINISH FLOOR MATL MATERIAL	Architecture Londscope Architecture Interior Architecture
			<i>p</i>	4. WOOD CONNECTORS SHALL BE SIMPSON STRONG-THE OR EQUAL.	ARCH ARCHITECTURAL MIN MINIMUM	000 West Cittle Avenue
		 PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS ASSOCIATED WITH THE 		CONNECTOR MODEL NUMBERS SHOWN REFER TO SIMPSON STRONG-TIE.	BM BEAM MTL METAL	
	D	WORK. ALL OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT		FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR REVIEW OF THE	BOF BOTTOM CF FOOTING NIC NOT IN CONTRACT BOT BOTTOM NTS NOT TO SCALE CONC CONCRETE 0C ON CENTER	191 E. Swanson Avenue Wasilia, Alaska 99654 (907) 375-7503
 IIIICAL LODAL SALE SALE SALE SALE SALE SALE SALE SA		PROCEEDING WITH THE RELATED WORK. 3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND	AND FOUNDATION RECOMMENDATIONS THERE IS NO GUARANTEE THAT FROST	6. NO WOOD TREATMENTS OR PRESERVATIVES SHALL BE USED WITHOUT PRIOR REVIEW OF THE ARCHITECT.	DF DOUGLAS FIR PLF POUNDS PER LINEAL FOOT DIA/DIAM/# DIAMETER PSF POUNDS PER SOLIARE FOOT	Consultant
Image: Display and point and poi		SHALL NOT EXCEED THE DESIGN LIVE LOADS.	STRUCTURAL CONCRETE NOTES	CONCRETE, EARTH, OR WITHIN 6" OF EARTH SHALL BE TREATED IN	DIM DIMENSION PTT PRESSURE TREATED TIMBER DL DEAD LOAD REF REFERENCE EA EACH BEINE REFERENCE	
 Concert from the formation of the content of the con			 ALL CAST-IN-PLACE CONCRETE SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTHS OF 3,000 PSI. 	GALVANIZED OR STAINLESS STEEL AS RECOMMENDED BY THE TREATED	ELEV ELEVATION REQ'D REQUIRED EQ EQUAL RO ROUCH OPENING	POC INC. ENGINEERS
 			2. ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE	 ALL NAILS SHALL BE COMMON WIRE NAILS. NAILING AND FASTENING SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC, UNO. 	FF FINISH FLOOR SIM SIMILAR FRMG FRAMING SS SELECT STRUCTURAL	Ste OF ALAN
 A - 90 LOPT A - 90			STANDARDS OF ASTM A615, GRADE 60.	9. STANDARD WASHERS SHALL BE USED UNDER ALL BOLT HEADS AND NUTS	FTG FOOTING SWBN SHEAR WALL BOUNDRY NAILING GA GAGE TOC TOP OF CONCRETE	4 49 H X 1
 C - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -		$P_{G} = 150 \text{ LB/FT}^2$	A185. A MINIMUM 8 INCH LAP SHALL 3E PROVIDED FOR SIDE AND END		HD HOLDOWN UNO UNLESS NOTED OTHERWISE HF HEW FR ICBO INTERNATIONAL CONFERENCE OF BLDG OFFICALS V/ WITH	Stand
 C h, so to MPT Expecticione Decontent Unity, Force Proceeding Statistic Statistic Statis Statistic Statistic Statis Statistic Statistic Statistic S		$C_{f} = .9$ $C_{f} = 1.0$	SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN	SPACING AS SHOWN ON THE DRAWINGS SHALL BE HILTI "KWIK BOLT", RED	IN INCH(ES) WWF WELDED WIRE FABRIC	Mannes-
 Even de la met de control d'aux l'ancient de la met d	С		EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED			
³ - 6.00 ³ - 6.00			DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.	ACCORDANCE WITH THE TREATING AND DRYING REQUIREMENTS IN THE AMERICAN WOOD PRESERVERS BUREAU'S AWPB-FDN STANDARD. MEMBERS		ARK
LAUSSING LAUSSING FORMATION FORMATION SALL CONSIGNATION FOR SALL STATUS Image: Sall status		SI = 0.60G	REINFORCING.	PRESERVATIVE TREATMENT. BELOW GRADE TIMBER FASTENERS SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL FASTENERS. ABOVE GRADE		NTP
LAUSSING LAUSSING FORMER UP NOTES SHILL CONTROL FOR LUPP. INSTRUMENT, SHILL CONTROL FOR HERE Image: Control of the Control of		SEISMIC USE GROUP = I	SHALL BE 6 SACKS.	GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER		PME
LAUSSING LAUSSING FORMATION FORMATION SALL CONSIGNATION FOR SALL STATUS Image: Sall status	-	MOMENTS, SHEARS, AND ROTATIONAL FORCES ARE DELIVERED TO THE FOUNDATION BY THE SHEAR WALLS IN PROPORTION TO THEIR ABILITY TO RESIST	 a. 3" FOR CONCRETE CAST AGAINST THE EARTH. b. 1 1/2" FOR BARS EXPOSED TO WEATHER AND BEAMS AND COLUMNS. 		-	EVELO PIZZA ka
Destrik Ar Omnow Naching Control, 4 Bound and Diant. 2. Mittenus Luder. And Diant. Source Luder. And Multi Shull. de Flactor. All Convertion to se Protect of Maximum Distrik. 2. Mittenus Luder. And Diant. Source Luder. More Multi Shull. de Flactor. 0. Service Luder. Source Luder. More Multi Shull. de Flactor. 0. Service Luder. Source Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi To Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. 0. Service Luder. Service Luder. Servi			STRUCTURAL TIMBER NOTES			L DE P DE P Alaska
Destrik Ar Omnow Naching Control, 4 Bound and Diant. 2. Mittenus Luder. And Diant. Source Luder. And Multi Shull. de Flactor. All Convertion to se Protect of Maximum Distrik. 2. Mittenus Luder. And Diant. Source Luder. More Multi Shull. de Flactor. 0. Service Luder. Source Luder. More Multi Shull. de Flactor. 0. Service Luder. Source Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi To Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. More Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. Service Luder. Multi Shull. de Flactor. 0. Service Luder. 0. Service Luder. Service Luder. Servi		NATURAL SUBGRADE WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2,000 PSF AS INDICATED ON THE DRAWINGS AND AS FIELD VARIFED AND APPROVED BY OWNER'S SOLIT ESTING LABORATORY, INISTALL 1'-0" CLASSIFIED FILL BELOW ALL THICKENED SLAB FOOTINGS, UNO. COMPACT	GRADED, IN ACCORBANCE WITH THE LATEST EDMONS OF THE WEST COAST LUMBER INSPECTION BUIERAU (KLUB) TECHNICUL PUBLICATION NO. 17 OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) "WESTERN LUMBER GRADING RULES (GS)", THE DESIGN AND CONSTRUCTION STANDARDS OF ALL WOOD PRANING SHALL CONFORM TO			SOUTH FILL RBORSID Cordova, A
Department of primerius workships controls. 4.1. Books workships. 2. Whitewas workshi	в	2. ALL FOOTING SUBGRADES AS REQUIRED AND ALL SIAB SUBGRADES	EDITION OF THE "AMERICAN FOREST & PAPER ASSOCIATION NATIONAL			HAI \$2
C. SWILLING TO SPICET OF MAXIMUM DESITY. A. LOCARACTED TO SPICET OF MAXIMUM DESITY. A. LOCARACTED SAULE FRANCE SAULE STANDARD CREAN JUSCIFIES SAULE FRANCE A. SUBJECT AND MAXIMUM DESITY. A. THE CONTRACTOR SAUL PROVIDE ALL NECESSARY MASSINGS NO REPTOR NO ADDRESSES (SPICPT VIE CONTROL NO REPTOR NO A THE CONTRACTOR SAUL PROVIDE ALL NECESSARY MASSINGS NO REPTOR NO R		DENSITY AT OPTIMUM MOISTURE CONTENT. ALL BACKFILL AROUND AND				ġ
1. ALL ORDARC MARGING OTHER UNSUBJELIE FERMAND 2. ALL ORDARCE MOL SAFELIE MERK AND FLORED MERK AND FLORE MARK MERKENDE MERK AND FLORE MERK MERKENDE MERKEN		COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY.				
k THE CONTINUCTOR SHALL RECESSANT VECURIES TO PREVENT ANY FRONT OF CALL NECESSANT VECURIES SUBGRADES FULLY PROMETERING THE PREVENTING SUBGRADES ARE FULLY PROMETERING THE PREVENTION CONTINUOUS FULCEMENT. ETTERUP BREV REVENTION SUBGRADES SUBJ THE PREVENTION SUBJECT TO THE PREVENTION SUBJECT THE PREVE		FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE	GRADE: No. 2 MODULUS OF ELASTICITY: 1,700,000 PSI			8
FULLY PROJECTED BY THE PERMANENT BUILDING STRUCTURE. FULLY PROJECTED BY THE PERMANENT BUILDING STRUCTURE. Revisions S. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS FULCHENENT. SPECIES: DF/HE 24 6. NO CONSTRUCTION SHALL CONVENCE UNTIL ALL SEXSONAL FROST HAS THAMED OR BEEN REMVRD. DECEMPTION SPECIES: DF/HE 24 7. CLASSFED FILL AND BARKILL SHALL CONTAIN NO LUMPS, FROZEN MATERIAL, DREAMING MATER, OR OTHER DELETERIOUS MATER: IT SHALL HAYE AD SHALL CONTAIN NO LUMPS, FROZEN MATERIAL, DREAMING MATER, OR OTHER DELETERIOUS MATER: IT SHALL HAYE AD SHALL CONTORN TO THE FOLLOWING TYPE AS REQUIRED BY THE DRAMING SHO SHOLE SHOLE OF THE CONTRACTOR FOR USE AS CLASSFED FILL AND/OR BACKFILL SHALL BE GRADED WITHIN THE JUMTATIONS OF TABLE 1 Drawn F, E 680 PSI COMPRESSION RAAKEL TO GRANN, F, E 680 PSI COMPR	L	4. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY WEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADES BEFORE AND AFTER PLACING OF CONCRETE UNTIL SUCH SUBGRADES ARE	EXTREME FIBER IN BENDING, Fb TENSION 1,450 PSI PARALLEL TO GRAIN, Ft COMPRESSION 850 PSI		-	
CONTINUOUS FUCCEMENT. 6. NO CONSTRUCTION SHULL COMMENCE UNTIL ALL SEISONAL FROST HAS INVINED IN REAM EMANDED. Contended: DF/AF 24 F-V4 C. CLASSRED FILL AND BACKELL SHALL CONTAIN NO LUMPS, FROZEN MATERIE NO FOR OFFICE ROLETERINOS MATER. IT SHALL HAVE A PUSSICITY NOCK NOT GREATER THAN SK (6) AS DETERMINED BY ACTUD LOVERAND THE CONTROL OFFICIAL TO GRAIN, FR DF/AF 24 F-V4 DF/AF 24 GRADE DF/AF 24 F-V4 MATERIE TRANS NO SPECIFICITIS UNIMAL WORKING STRESSES (SPICITY USE CONDITION): DF/AF 24 GRADE DF/AF 24 F-V4 DF/AF 24 GRADE DF/AF 24 F-V4 MATERIE TRANS NO SPECIFICITIS DEFENSION FARILIZI TO GRAIN, FR 1,500 PS DF/AF 24 GRADE DF/AF 24 GRADE<		FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE. 5. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1)	PERPENDICULAR TO GRAIN, Fc HORIZONTAL 625 PSI SHEAR, Fv 95 PSI			Revisions No. Description Date
THAMED OR BEER REMORED. 2. CLASSERE FIL AND BACKELL SHALL CONTAIN NO LUMPS, FROZIN MATERIAL, DREAMIC MATER, OR OTHER DELETEROUS MATER. IT SHALL HAVE ALL CONTAIN NO LUMPS, FROZIN A A MATERIAL SPEAR TO YN DER DELETEROUS MATER. IT SHALL MUDUES OF ELEMAND BAY MATERIAL PROMING XITES, OR OTHER DELETEROUS MATER. IT SHALL MUDUES OF ELEMAND SWILL CONFORM TO THE FOLLOWING TYPE AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS: MATERIAL SPLINATION DE AT THE CONTRACTOR FOR USE AS CLASSIFIED FILL AND/OR BACKFILL SHALL BE GRADED WITHIN THE LIMITATIONS OF TABLE 1 DELIMEATED BELOW. Conversion Parallel TO SHALL FE AR ANTED SHEATHING, EXTENSION, SPACE Conversion Parallel TO SHALL FE, E ARA ANTED SHEATHING, EXTENSION, SPACE Conversion Parallel TO SHALL FE, AND PARALLEL TO GRAIN, FE 650 PSI CONVERSION PARALLEL TO GRAIN, FE 650 PSI HORZONTAL SPEAR, FV 16 PLYWOOD FINIS PARALLE AND SHEATHING, EXTENSION, SPACE Conversion Parallel TO GRAIN, FE 650 PSI MULTIPUT OF ORAND, FE 650 PSI MODUES OF TABLE 1 DELIMERT DELIMING, DIPOLOGUE TO GRAIN, FE 650 PSI CONVERSION AND SPECTROTON FOR USE AS ANTED SHEATHING, EXTENSION PARALLEL TO GRAIN, FE 650 PSI CONVERSION AND SPECTROTON FOR THE D		CONTINUOUS PLACEMENT. 6. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL SEXSONAL FROST HAS	SPECIES: DF/HF 24 GRADE: F-V4			
MATERNAL, DRAMIC MATER, OR OTHER DELETERIOUS MATER. IT SHALL HAVE A JUSTICTY INDEX (b) AS DEFININGE DY A AT UD-424 AND SHALL CONFORM TO THE FOLLOWING TYPE AS REQUIRED OF THE DRAMICS AND SEPECIFICATIONS: MATERNALS FURNISHED BY THE CONTRACTOR FOR USE AS CLASSIFIED FLL AND/OR BUCKFLL SHALL BE GRADED WITHIN THE LIMITATIONS OF TABLE 1 DELINEATED BELOW.		7. CLASSIFIED FILL AND BACKFILL SHALL CONTAIN NO LUMPS, FROZEN	njoodjata i di			Drawn by Date
MATERNAS FURNISHED BY THE CONTRACTOR FOR USE AS CLASSIFIED FILL Clambression Paper Molecular To GRAIN, FC 650 PS1 AND/OR BACKFUL SHALL BE GRADED WITHIN THE LIMITATIONS OF TABLE 1 Clambression Paper Molecular To GRAIN, FC 650 PS1 DELINEATED BELOW. Content MORE PLYMODO SHALL BE APA NATED SHEATHING, EXTENSION, SPAN Sheat Content WILL PLYMODO SHALL BE APA NATED SHEATHING, EXTENSION, SPAN WILL PLYMODO SHALL BE APA NATED SHEATHING, EXTENSION, SPAN Cotegory Cotegory S MULL PLYMODO SHEALL BE APA NATED SHEATHING, EXTENSION, EXTENSION, SPAN Cotegory So	A	MATERIAL, DRGANIC MATTER, OR OTHER DELETERIOUS MATTER. IT SHALL HAVE A PLASTICITY INDEX NOT GREATER THAN SIX (6) AS DETERMINED BY ASTM D-424 AND SHALL CONFORM TO THE FOLLOWING TYPE AS REQUIRED	EXTREME FIBER IN BENDING, Fb 2,400 PSI TENSION PARALLEL TO GRAIN, Ft 1,150 PSI COMPRESSION PARALLEL TO GRAIN, Fc 1,450 PSI			
ROOF PLYMCOD SHEATHING, EXTENDING, EXTENDING		AND/OR BACKFILL SHALL BE GRADED WITHIN THE LIMITATIONS OF TABLE 1	HORIZONTAL SHEAR, FV 165 PSI			Sheet Contents GENERAL NOTES
miller tar de la construction d'activitation de la construction de la		UELINEANEU BELUN.				
		1	2	3	4	









Architects Alaska® An Alaskan Corporatio Architecture Landscape Architecture Interior Architecture 900 West Fifth Avenue Anchoroge, Alaska 9950 (907) 272-3567 ABBREVIATIONS **PIPING LEGEND** DUCTWORK LEGEND HORSEPOWER HOT WATER 191 E. Swonson Avenue Wasilla, Alaska 99654 (907) 373-7503 WASTE ABV ADA AFF ABOVE AMERICAN WITH DISABILITIES ACT GUIDELINES HP HW IN \odot SENSOR VENT PIPING ABOVE FINISHED FLOOR INCHES INCHES LEAVING AIR TEMPERATURE LAVATORY LEAVING WATER TEMPERATURE MAKE-UP AIR UNIT DESIGNATOR (\mathbf{I}) AIR HANDLING UNIT DESIGNATOR LAT LAV LWT MAU-X THERMOSTAT AHU-X Consultant COLD WATER ALUMINUM AL AMPS APD ARCH B-X AMPERES AIR PRESSURE DROP RSA HOT WATER SUPPLY AIR UP & DOWN Mechanical and Electrical Consulting Engineers 2022 Artic Baleval Antongo, Ar 19930 (101) 29-6021 (101) 29-6021 ARCHITECTURAL BOILER DESIGNATOR BACKDRAFT DAMPER MAXIMUM THOUSAND BTUH SEE ABBREVIATIONS FOR MEDIA -xxx BDD MANUFACTURER RETURN AIR UP & DOWN PIPE UP BLDG BTUH CAP C/A CFM MAKEUP AIR MINIMUM MOTOR OPERATED DAMPER BUILDING BRITISH THERMAL UNIT/HOUR PIPE DOWN CAPACITY annun . EXHAUST AIR UP & DOWN COMBUSTION AIR CUBIC FEET PER MINUTE NOUNTED NOISE CRITERIA TEE UP TEE DOWN CIRCULATING 1 the CIRC NUMBER CIRC CLG CONT C.O./CO CONN CP-X CU CUH-X CW dB DEG DIA DIM ON CENTER OUTSIDE AIR OUTSIDE DAMPER CE IL ING CONT INUED CAP ROUND DUCT UP & DOWN CLEANOUT 4b UNION CONNECTION CIRCULATION PUMP DESIGNATOR OIL SAFETY VALVE PLUMBING FIXTURE DESIGNATOR PRESSURE DROP AND ROPESON'S VOLUME DAMPER DIRECTION OF FLOW . CABINET UNIT HEATER DESIGNATOR COLD WATER PRE-FILTER DESIGNATOR PHASE POUND PER SQUARE INCH 101 BALL VALVE 8 DECIBELS SOUND LINED DUCTWORK DEGREE RETURN AIR REVOLUTIONS PER MINUTE SUPPLY AIR STATIC PRESSURE SQUARE RETURN ALD 3-WAY CONTROL VALVE DUCT SIZE (FIRST FIGURE - SIDE SHOWN) (SECOND FIGURE - SIDE NOT SHOWN) DIM DIMENSION 12/24 DTM DN DWG E/A EAT EFF EF-X ENT DOWN DRAWING EXHAUST AIR CHECK VALVE \boxtimes BALANCE VALVE TEMPERATURE ENTERING AIR TEMPERATURE TOTAL STATIC PRESSURE THERMOSTAT INSULATED DUCTWORK <u>لم</u> PRESSURE/TEMPERATURE EFFICIENCY EXHAUST FAN DESIGNATOR RELIEF VALVE TOTAL TOTAL TEMPERING VALVE DESIGNATOR TYPICAL UNIFORM BUILDING CODE UNIT HEATER DESIGNATOR ENTERING EXTERNAL STATIC PRESSURE EXPANSION TANK DESIGNATOR ESP ET-X EXH HOSE BIBB LOGIC HARBORSIDE PIZZA -6 PUMP EXHAUST DETAIL NUMBER FAHRENHEIT FORWARD CURVE FLOOR CLEAN OUT UNIFORM PLUMBING CODE VENT VELOCITY F FC FD FD-X FIN FLR FOR FOS FOT-X Cordova, Alaska W5.01 SHEET LOCATED ON CLEANOUT FIRE DAMPER VENT THRU ROOF 0 METER FLOOR DRAIN DESIGNATOR WASTE SHEET NOTES FINISHED WITH FLOOR WITHOUT WATER COLUMN WALL CLEAN DUT PIPE SLEEVE FUEL OIL RETURN FUEL OIL SUPPLY FUEL OIL TANK DESIGNATOR Π WATER GAUGE CFM ------ CFM THERMOMETER WATER GAUGE WATER HEATER DESIGNATOR WATER HAMMER ARRESTOR WATER PRESSURE DROP FEET PER MINUTE FPM FT GA GAL GALV GI-X GPH GPM HB-X HD DIFFUSER OR GRILLE TYPE GAUGE Ŷ GAUGE GALLONS GALVANIZED GREASE INTERCEPTOR DESIGNATOR PRESSURE CAUGE W/ ISOLATION COCK YCC YARD CLEAN DUT GALLONS PER HOUR GALLONS PER MINUTE HOSE BIBB DESIGNATOR \otimes FLOOR CLEANOUT 0 HEAD FLOOR DRA N Revisions No. Description Date Drawn by Date Checked Job No. Sheet Contents ECHANICAL LEGENDS & BREVIATIONS Category Sheet No. М 1.01

5

of 183

UMBING FIXTURE SCHEDULE	Architects Alaska®
OL FIXTURE ON TW/HW WASTE VENT TRAP BASIS OF DESION BASIC WODEL COLOR/TINISH TRI//EEWARKS WATER CLOSET - FLOOR MOUNT 1 - 3 2 - AMERICAN STANDARD 2234.015 MADERA WHITE ELONGATED BOML SLOAN ROYAL 111 1.6 GPF FLUSH VALVE, SPLIT RIM SEAT W/O COVER. WATER CLOSET - ADA - FLOOR MOUNT 1 - 3 2 - AMERICAN STANDARD 2305.100 MADERA WHITE ADA HEIGHT, ELONGATED BOML, SLOAN ROYAL 111 1.6 GPF FLUSH VALVE, SPLIT RIM SEAT W/O COVER.	An Aleskan Corporation Architecture Londscape Architecture Interior Architecture
LAVATORY - WALL MOUNT 1/2 1/2 1/4 1-1/4 1-1/4 I-1/4 I-1/4 <thi-1 4<="" th=""></thi-1>	900 West Film Avenue Anchorage, Alaska 9950 (907) 272–3567
J-COMPARIMÉNT SINK (BY OTHERS) 1/2 1/2 2 1-1/2 2 PIPE TO WASTE TO GREASE INTERCEPTOR. MOP SINK (BY OTHERS) 1/2 1/2 2 1-1/2 2 WASHE ROUGH-IN 3/4 3/4 2 1-1/2 2 GUY GRAY WE200 SINGLE LEVER HW/OW VALVE, GALVANIZED BOX. NALLA SOLUTION UNCLUDED	(907) 272–3567 191 E. Swanson Avenue Wasilia, Alaska 99654 (907) 373–7503
FLOOR SINK 3 2 3 J.R. SWITH 3100-12 - CAST IRON, ACID RESISTANT INTERIOR, NICKEL BRONZE RIM, 1/2 GATE, DOME STRAINER. WH-B 3/4" 12-32 REFLACE INTERCEPTION (BY OTHERS) 3 2	Consultant RSA
	Mechanical and Elecin Consulting Engineers 3522 Ards Buskewst Accorage, AX 9900 (907) 224-637
BURNER HOT WATER CAPACITY MOTOR RECOVERY CAPACITY EWT LWT	_
OL MFCR/MCOEL MEDIUM FUEL CPH WATTS/V/PH CPH GAL DEG F DEG F LABEL REMARKS BOCK/72E WATER OIL 1.42 230/120/1 212 67 50 140 UL 199 MBH INPUT, P&T RELIEF VALVE, SEISMIC RESTRAINT.	STATE OF ALAN
(PANSION TANK SCHEDULE	1 the
NU MFGR/MODEL FUNCTION MEDIUM MATERIAL TOTAL (GAL) ACCEPTANCE (GAL) DIMENSIONS LABEL REMARKS AMIROL/EXTROL 90 HEATING 500 PG STEEL 14.0 11.3 15.5"DIA.X 21"H IAPMO PROVIDE WITH AIR PURGER AND VENT.	No. 1200
AMTROL/ THERM-X-TROL STS DOMESTIC WATER WATER STEEL 2.0 0.9 8'DIA X 13'H IAPMO PRE-CHARGE TO 12 PSI.	Mannan
NK SCHEDULE	
OL MEGRANDEL FUNCTION MEDIUM MATERIAL (CAL) DIMENSIONS LABEL REMARKS 1 ACE/12/24 FUELOIL DUDUELS SSO 75/L44*01A UL-142 SSI DUDUELD, PRIMECOAT OF EPOXY,	
STORAGE STEEL FINISH COAT-URETHANE, ACCESSORIES PER DETAIL AND SPECIFICATIONS	
PUMPED HEAD MOTOR DATA	
OIL BEGR/MODEL FLACTION MEDILIM GPM FT. TP//TIST/FHF REMARKS GRINDFOS/LPS 32-160/CPS 32-160/CPS 14A AND CUM-1 500/FG 6 27 30 3/4 /120/1 SET AT SPEED 2. GRINDFOS/LPS 154-160 RAD LIANT FLOOR 500/FG 6 30 1/6 /120/1 SET AT SPEED 2. GRINDFOS/LPS 154-267 INJACTION 500/FG 6 5 1/2 /120/1 SET AT SPEED 2.	5
N SCHEDULE	HARBORSIDE PIZZA Cordova. Alaska
DU WFGR/MODEL TYPE SERVICE CFM IN KC. PPM HP/VOLTS/PH DRIVE SMKS PEMARKS COOK/165R8B EXHAUST KITCHEN HOOD 2900 0.75 1725 3/4 /120/1 BELT 19.4 PROVIDE WITH GREASE CONTAINMENT, 18" CURB, ARCTIC GRADE BELT, NL-762 LISTING FOR GREASE. COOK/GC-142 EXHAUST RESTROOM 84 0.25 1000 59W /120/1 DIRECT 2.0 PROVIDE WITH WALL CAP WITH BIRDSCREEN AND BOD.	(BORSIDE Pl
COOX/165868 EXHAUST KITCHEN HOOD 2900 0.75 1725 3/4 /120/1 BELT 19.4 PROVIDE WITH GREASE CONTAINMENT, 18" CURB, ARCTIC GRADE BELT, IL-762 LISTING FOR GREASE. COOX/0C-142 EXHAUST RESTROOM 84 0.25 1000 58W /120/1 DIRECT 2.0 PROVIDE WITH WALL CAP WITH BIRDSCREEN AND BDD.	RSII
R INLET/OUTLET SCHEDULE	BOI
TITUS/301FS ORILLE SUPPLY ALUMINUM WHITE PER FLANS 24/10 32 2-WAY PROVIDE FRAME WITH DUCT MOUNTING.	HAR
N WFOR/MODEL FINISH SIZE SIZE RANCE CAN FLOW ATE LISTING REMARKS POMERS/LMM95 BRONZE 1/2 1/2 0-120 0.5 < 5 PSI ASSE 1070 FOR USE WITH LIVATORY P-2 AND SINK P-3, INTEGRAL CHECK STOPS, INLET SCREENS, ADJUSTABLE TEMPERATURE, VANDAL RESISTANT LOCKABLE HANDLE.	
ABINET UNIT HEATER SCHEDULE	
Net FLOW INDED OT LCT IN FUEL OF INFORMATION OF ATA	
1 MOD'INE/CC8 SIZE 2 150 50% PG 7.6 1.3 1/30 /120/1 180 160 PRCVIDE WITH INTERNAL THERMOSTAT.	Revisions No. Description D
AKE-UP AIR UNIT SCHEDULE	No. Description D
MAX_CAPACITYMAX_TEMPFLOWPRESFANMOTOR_DATA	Drawn by Date
OL MAX CAPACITY MAX TESE FLOW PRES FAN MOTOR DATA 0. #F0R/MODEL MMH TSE FUID EGT CFM ESY/TSP MOTOR DATA 1 GREENHECK/KSX-112-H22 219.4 70 50% PG 180 150 16.2 4 CENTRIFUGAL 2900 0.25/0.387 1725 .75/230/1 PROVIDE WITH COIL MODEL 5MH0802B, INTERLOCK WITH EF-1.	ARN 11 NOV 13
DU WGR/ANDUEL WAX CAPACITY WAX TEPP. FLUID EGT LGT (GW PRES. 1 GREENHEDK/ASK-112-H22 219.4 70 50% PG 180 150 16.2 4 CENTRIFUGAL 2900 0.25/0.387 1725 .75/230/1 PROVIDE WITH COIL MODEL SHM08028, INTERLOCK WITH EF-1. DILER SCHEDULE	Checked Job No
ODE MAX CAPACITY (MeH) WAX CAPACITY (MeH) WAX CAPACITY (MeH) WAX CAPACITY (MeH) ELUID (NEV) ECON (NEV) FAN (NEV) MOTOR DATA (NEV) MOTOR DATA (NEV)	RRD L3241.00
DU W GR/ADDEL MAX CAPACITY WAX TEPP. FLUID EGT LGT (GWW) PRES. 1 GREENHECK/ASX-112-H22 219.4 70 50X PG 180 150 16.2 4 CENTRIFUGAL 2900 D.25/0.387 1725 75/230/1 PROVIDE WITH COIL MODEL SMH0802B, INTERLOCK WITH EF-1. DILER SCHEDULE DILER SCHEDULE 0 MFGR/MODEL HEATED CAPACITY GROSS I-B-R BURNER WEIL-MCLAIN/MOD-8 50G PG 01L 2.3 265 1/7 /120/1 UL, ASME H CAST IRON SECTIONAL; STRAP ON REDUNDANT HIGH LIMIT, LOW WATER CUT OFF, 30 PSI RELIEF VALVE, OTHER ACCESSORIES PER ASME CSD-1.	
ODE MAX CAPACITY (MeH) WAX CAPACITY (MeH) WAX CAPACITY (MeH) WAX CAPACITY (MeH) ELUID (NEV) ECON (NEV) FAN (NEV) MOTOR DATA (NEV) MOTOR DATA (NEV)	RRD L3241.00

MECHANICAL SPECIFICATIONS

FRONT END ADMINISTRATIVE

PLANS - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR INCESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAININGS ARE PARTLY DIAGRAMMATC, NOT NECESSARILY SHOWING, ALL OFFSETS OR EVACT LOCATIONS OF PIPING AND DUCTS, UNLESS SPECIFICALLY DIMENSIONED

COMPLETE PROJECT - THE INTENT OF THIS PROJECT IS TO LET ONE CONTRACT WHICH INCLUDES ALL WORK REQUIRED FOR A COMPLETE JOB.

PERMITS - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

CODE - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BULDING CODE (BC), INTERNATIONAL MECHANICAL CODE (MC), UNFORM PLUMBING CODE (UPC) AND NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE STATE OF LASSA AND LOCAL, JURSDICTIONS, STEET WETH, WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA STANDARDS.

INSURANCE - CONTRACTOR MUST PROVIDE BUILDER'S ALL RISK INSURANCE, WORKER'S COMPENSATION INSURANCE, AND GENERAL LIABILITY INSURANCE AT ALL TIMES WHILE WORKING ON THIS PROJECT

EQUIPMENT SUBSTITUTIONS - ALL EQUIPMENT USTED IS REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. "OR EQUIA" SUBSTITUTIONS WILL BE CONSDERED IF THE SUBSTITUTE CALLOC CITS ARE SUBMITTED AN ARE SHOWN TO BE OF EQUIA OR BETTER QUALITY. INCLUDING EFFICIENCY OF PERFORMANCE, SIZE AND WEIGHT,

WARRANTY - ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMASHIP FOR A PERIOD OF ONE YEAR FROM ACCEPTANCE. ANY FAULTY MATERIALS OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.

ELECTRICAL WORK - ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN, IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NEC.

MATERIALS - ALL MATERIALS OTHER THAN OWNER SUPPLIED SHALL BE NEW AND UNUSED. INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACINCE OF THE CRAFT. OBTAIN OWNER'S APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

SUBMITALS - SUBMITALS SHALL BE IN BOOKLET FORM. THE DATA SHALL BE ARRANGED AND INDEXED LINDER BASIC ATEGORIES. SUBMIT ON WATER HEATER, PLWPS, CONTROLLS, CONTROLLERS, FANS, TAKKS, MAYES, PEX TUBINS, RADAT MANDRIDS, PIPING SUPPORTS AND ANCHORS, UNTH HEATERS, PLUMBING FIXTURES, INSULATION, FLANGES, PIPING SUPPORTS AND ANCHORS, UNIT HEATERS, PLUMBING FIXTURES, INSULATION, AND MAKE-UP AIR UNIT

BALANCE - THE CONTRACTOR SHALL BALANCE THE AIR AND HYDRONIC SYSTEMS ACCORDING TO NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) RECOMMENDED PROCEDURES AND CONTRACT DOCUMENTS, AND TO THE SATISFACTION OF THE OWNER. AIRFLOWS ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS, PER AMERICAN AIR BALANCING COUNCIL (AABC) RECOMMENDED METHODS.

OPERATION AND MAINTENANCE MANUAL - PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL "O INCLUDE WANUFACTURER'S SPICIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANY INFORMATION ON RACH PIECE OF EQUIPMENT, AND SCHEMATIC DIAGRAPS, OF CONTROL, SYSTEMS AS-BULT, AS WELL AS A SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE.

ACCESS - PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

TEST AND START-UP - TEST ALL PLUMBING AND PIPING SYSTEMS WITH 60 PSIG FOR ONE HOUR BEFORE FILLING AND IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, UPC. FILL ALL HEATING PIPING WITH TRISODIUM PHOSPHATE SOLUTION AND OPERATE FOR SEVERAL HOURS AT NORMAL OPERATING TEMPERATURE BEFORE FLUSHING AND FILLING

EQUIPMENT INSTALLATION - INSTALL ALL EQUIPMENT WHERE NOTED ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES, ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR SCOMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.

DUCTWORK

ŪЛ

of of

20

FABRICATE AND SUPPORT DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDROOKS, EXCEPT AS INDICATED.

DUCTWORK - PROVIDE JALVANIZED SHEET METAL RECTANGULAR OR ROUND DUCT WHERE CALLED OUT ON THE PLANS. SEAL ALL DUCT SEMAS AND JOINTS AIRCHIT. USE TURNING WARES IN ALL SQUARE ELGIONS AND RAT ON AUL ELBOYS. INSTALL VOLUME OMMERS AND DETRACTORS WHERE SHOWN ON THE DRAWINGS. ALL SHEET WETAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED AND BUANCED IN ACCORDANCE WITH SWACHA STANDARDS. SUPPORT LOW AND MEDIUM PRESSURE DUCTWORK FER SMACHA GUDELINES.

VOLUME DAMPER - FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION

KITCHEN HOOD EXHAUST DUCT WORK - FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, AND NFPA 96. CONSTRUCT OF 16 GAUGE CARBON STEEL OR LA GAUGE STAINLESS STELL, USING CONTINUOUS EXTERNAL WELDED JOINTS. INSULATE WITH ZERO-CLEARANCE TO COMBUSTIBLE FIRE WRAP PER PLANS AND SPECIFICATIONS.

INSULATION

DOMESTIC COLD WATER	ALL SIZES	1"
DOMESTIC HOT WATER	ALL SIZES	1*
PLUMBING VENT THROUGH WALL	ALL SIZES	1"
PIPING EXPOSED TO FREEZING	ALL SIZES	2*
HANDICAP LAVATORIES	ALL SIZES	1/2*
EXHAUST DUCTS	ALL SIZES	1*
DUCT LINER		1"
HEATING GLYCOL SUPPLY/RETURN	UP TO 1.5"	1"
HEATING GLYCOL SUPPLY/RETURN	> 1.5"	2*

INSULATION

- PIPING GLASS FIBER, RGID, MOLDED, NON-COMBUSTIBLE INSULATION; ANSI/ASTM C547; 'K' VALUE OF 0.24 AT 75 DEG F. RATED TO 850 DEG F. VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOIL: JOHNS MANVILLE "MICRO-LOK" OR EQUAL.
- ADA LAVATORY CELLULAR FOAM, PREFORMED FOR TAILPIECE, P-TRAP, ANGLE STOPS AND SUPPLY TUBES. LAV GUARD2 AS MANUFACTURED BY TRUEBRO OR EQUAL.
- DUCTWORK FSK DUCT WRAP: FLEXIBLE GLASS FREP: ANSI/ASTM C553: COMMERCIAL GRADE; 'K' VALUE OF 0.27 AT 75 DEG F. JOHNS MANVILLE "MICROLITE XG" OR EQUAL.
- DUCTWORK RIGID FIBER BOARD: ANSI/ASTM C612, 'K' VALUE OF 0.24 AT 75 DEG F. 3.0 LB./CU. FT. DENSITY. 0.00035 INCH FOIL SCRM FACING. CERTAINTEED "IB BOARD"
- DUCTWORK DUCT LINER: CLOSE CELL CEC- AND HCEC-FREE FLEXIBLE FLASTOMERIC ACOUSTICAL INSULATION WITH SCRIM-PEINFORCED ACRVIC ADHESIVE ON ONE SIDE. ; ASTM C534 TYPE 2 (SHEET) GRADE 1, ASTM E84: 25/50 AT 2" AND BELOW; 'K' VALUE OF 0.25 AT 75 DEG F; R-4.2 AND NOISE REDUCTION COEFFICIENT (NRC) OF 0.5 AT 1 THICK; RECOMMENDED FOR -40 TO 200 DEG F TEMPERATURE APPLICATIONS; INSTALL METAL NOSING FOR AIR VELOCITIES GREATER THAN 4,000 FT./MIN., UL LISTED ADHESIVE GALVANIZED STEEL PINS. K-FLEX USA "K-FLEX DUCT LINER GRAY" OR EQUAL.
- GREASE DUCT (WITHOUT INC 506.3.10 DUCT ENCLOSURE) INSULATION SHALL BE 1.5 INCH FINCK (MIN.), IN-ORGANIC BLANKET, ENCLOSULATED WITH A SCRIM-EDIFORCED FOIL INSULATION SHALL NOT CONTAIN ASBESTOS, IND SHALL COMPLY WITH NFPA 96. INSULATION SHALL BE INSTRUCT ACCORDING TO MANUFACTURE'S INSTRUCTIONS. 3M FIRE BARRIER DUCT WRAP 15A OR EQUAL
- VAPOR BARRER JACKETS KRAFT REINFORCED FOIL VAPOR BARRIER WITH SELF-SEALING ADHESIVE JOINTS.
- INTERIOR JACKETING ONE PIECE, PVC JACKETS, PRE-MOLDED TYPE, SCHULLER ZESTON 2000, FITTING COVERS AND JACKETING MATERIAL. ALL EXPOSED PIPING BELOW 10' IN THE BOILER ROOM SHALL BE JACKETED.

IDENTIFICATION - LABEL ALL EQUIPMENT WITH HEAT RESISTANT LAWINATED PLASTIC LABELS HAVING ENSRAVED LETTERIG 1/2" HIGH. F ITENS ARE NOT SPECIFICALLY LISTED ON THE SCHEDULES, CONSULT THE ENGINEER CONCERNING DESCINATION TO USE. SETON ENGRAVED SETON-PLY WANDFATES OR EQUAL. IDENTIFY PIPING TO INICIATE CONTENTS AND FLOW DIRECTION OF EACH PIPE EXPOSED TO VIEW BY A LABELED SLEEVE (OR ADHESIVE PIPE MARKERS) IN LETTERS READABLE FROM FLOOR AT LEAST ONCE IN EACH ROOM AND AT INTERVALS OF NOT MORE THAT 20' APART AND ON EACH SIDE OF PARTITION PENETRATIONS. COLORING SCHEME IN ACCORDANCE WITH ANSI A13.1-1981, SETON OPTI-CODE OR EQUAL.

VALVES AND UNIONS ETC.

BALL VALVES — UP TO 2 INCHES: CLASS 150, BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, BLDW-OUT PROOF STEM, LEVER HANDLE, SOLDER OR THREADED ENDS.

SWING CHECK VALVES - CLASS 125. BRONZE SWING DISC. SOLDER OR SCREWED ENDS.

SPRING LOADED CHECK VALVES - IRON BODY, BRONZE TRIM, STAINLESS STEEL SPRING, RENEWABLE COMPOSITION DISC, SCREWED, WAFER OR FLANGED ENDS.

DIELECTRIC CONNECTIONS: UNION WITH GALVANIZED OR PLATED STEEL THREADED END, COPPER SOLDER END, WATER MPERVIOUS ISOLATION BARRIER.

FLANGES, UNIONS, AND COUPLINGS - 150 PSIG MALLEABLE IRON UNIONS FOR THREADED FERROUS PIPING; BRONZE UNIONS FOR COPPER PIPE, SCIDERED JOINTS.

PIPE HANGERS AND SUPPORTS - DESIGNED AND INSTALLED IN ACCORDANCE WITH THE UNIFORM

GAS ISOLATION VALVE - UP TO 2 INCHES: BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEPLON SEATS AND STUFFING BOX RING, LEVER HANDLE THREADED ENDS, AGA LISTED.

PLUMBING

DIAPHRACM-TYPE COMPRESSION TANKS - WELDED STELL CONSTRUCTION, RATED FOR WORKING PRESSURE OF 125 PSIG, WITH FLEXIBLE EPDM DIAPHRACM SEALED INTO TANK NSF APPROVED LIVER, FOR DOMESTIC WATER EXPANSION TANK, AR-CHARGING FITTING.

PIPING

BURED WASTE PIPING - CAST IRON PIPE: ASTM A74 SERVICE WEIGHT, FITTINGS: CAST IRON, JOINTS: HUB-AND-SPIOT, CISPI HSN COMPRESSION TYPE WITH ASTM C564 NEOPRENE CASKETS. _CAST IRON PIPE. CISPI JOI, HUBLESS, SERVICE WIGHT, FITTINGS; CAST IRON. JOINTS: NEOPRENE GASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES

ABOVE GRADE WASTE PIPING: CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES.

COPPER PIPE: ASTM B306, DWV. FITTINGS: ASME B16.3, CAST BRONZE, OR ASME B16.29, WROUGHT COPPER (DWV). JOINTS: ANSI/ASTM B32, SOLDER: GRADE 95TA; FLUX: ASTM B813

ABS PIPE: ASTN D2751. FITTINGS: ABS. JOINTS: ASTM D2235, SOLVENT WELD

PROPANE GAS PIPING, ABOVE GRADE - STEEL PIPE: ASTM A53, SCHEDULE 40 BLACK FITTINGS: ANS/ASUE B16.3, MALEABLE IRON, OR ASTM A234, STEEL WELDING TYPE JOINTS: SCREWED FOR PIPE TWO INCHES AND UNDER AND IF LOW PRESSURE, OR IF WELDIM PRESSURE AND OUTSIDE BUILDING; ANS/AMS D1.1, WELDED, FOR PIPE OVER TWO INCHES

DOMESTIC WATER PIPING, ABOVE GROUND - COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN, HITTINGS: ASME B16.18 CAST BRONZE OR ASME B16.22 WROLCHT COPPER. JJ ASTM B32, LEAD FREE SOLDER, WATER SOLUBLE PLX OR VIEGA, PRO PRESS SYSTEM. HARD LISTED PEX WATER PIPING SYSTEM. JOINTS:

AIR CHAMBERS - 3/4" DIAMETER, 10" TALL, TYPE L COPPER WITH FACTORY SPUN CLOSED END, SIOUX CHIEF ITEM NUMBER 623-L10 CR APPROVED EQUAL.

HEATING WATER PIPING, ABOVE GROUND - COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ANSI/ASWE B16.18 CAST BRONZE OF ANSI/ASWE B16.22 WROUCHT COPPER. JUNIS': ASTM B32, SOLDER, GRADE 93TA OR ANSI/AWS AS.8, BCUP SUCHER BRAZE;

RADIANT FLOOR HEATING - TUBING SHALL BE HIGH DENSITY CROSS-LINKED POLYETHYLENE RADUMT FLOOR HEATING - TUEING SHALL BE HIGH DESIGT (ROSS-LUNKED FOLIZTIHLEBE (FC) JANARED TO THE SPECIFIC STANDARD PROF TO SHEARCH FROM MANUFACTURE CROSS-LUNKED TO THE SPECIFIC STANDARD PROF TO SHEARCH FROM MANUFACTURE OWNERING PRESSURE TUBING SHALL BE HIGH TO SHEARCH FROM MANUFACTURE OWNERING PRESSURE TUBING SHALL HAVE A CO-STRUED OWNER DEFISION BREPER CAPABLE OF LUNTING OWNERN HERVISION THROUGH THE TUBE TO NO GREATER THAT OLIOGUSJOWN TO I NO DEG F METER TUBEPROTURE E SUPPLIED THE TUBING MAINFACTURER IS SHALL BE MANUFACTURED OF BRASS AND SHALL THE SUPPLIED THE TUBING MAINFACTURER IS SHALL BE MANUFACTURED OF BRASS AND SHALL TUBE COUPLINGS DUEEDDED WITHIN THE THERMAL MASS SHALL NOT BE ALLONED. TUBE COUPLINGS DUEEDDED WITHIN THE THERMAL MASS SHALL NOT BE ALLONED. SYSTEM AND SHALL BE EQUIPPED WITH BALANCING AND ISOLATION VALVES FOR EACH CIRCUIT. MANUFACTURED BY REHAU OR APPROVED EQUAL.

PIPING SUPPORTS AND HANGERS - SIZED AND SPACED IN ACCORDANCE WITH THE UPC. INSTALLED AS PER THE MANUFACTURERS INSTRUCTIONS.

DISINFECTION OF POTABLE WATER SYSTEM - THE NEW PORTIONS OF THE DOMESTIC WATER PIPING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 609.9 DF THE UPC.

Architects	
Alaska®	
An Alaskan Corporation	
Architecture Landscape Architecture	

Anchoroge, Alaska 9950 (907) 272–3567 191 E. Swonson Avenue Wasilio, Alaska 99654 (907) 373-7503





PLANNING

COMMIS

DECEMB

MBER

9. R

201

4

EGUL

ÂR

MEETING

PIZZA Alaska HARBORSIDE Cordova,

Paulalana						
Revisions						
No. Descrip	tion [Cate				
Drawn by Date						
Drawn by	Date					
ARN by	11 NOV	13				
		lo.				

Sheet No 1.03

Category

М

MECHANICAL SPECIFICATIONS

HYDRONICS

DIAPHRAGM-TYPE COMPRESSION TANKS - CONSTRUCTION WELDED STEEL, RATED FOR WORKING PRESSURE OF 125 PSK, WITH FLENBLE BUTH, DUAPHRAGM SEALED INTO TANK. ACCESSORES: PRESSURE GUIGE AND UR-CHARGING FITTING, TANK DRAM, PRE-CHARGE TO 12 PSIG.

WITH ISOLATION VALVE UPSTREAM OF VENT, ARMSTRONG ME-750 OR APPROVED EQUAL

IN-LINE CRCULATORS - MAINTENANCE FREE, SELF-LUBRCATED, 3 SPEED INDUSTRIAL/COMMERCIAL SINGLE STAGE, DIRECT RIME, CIRCULATOR, CASING: CAST IRON. IMPELLER: TYPE 3/4 STAINLESS STEEL BEARINGS: UPPER AND LOWER RADIAL BEARINGS TO BE ALUMNUM OXIDE CERAMIC, TUNGSTEN CARBIDE SHAT'B BEARING SURFACES. SHAT: SUMMESS STEEL WITH TYPE 4/07.

BALANCE VALVES - ANXLE OR STRAIGHT PATTERN, INSIDE SCREW GLOBE VALVE FOR 125 PSIG WORKING PRESSURE, WITH BROXEE BODY AND INTERAL UNION FOR SCREWED CONNECTIONS, REINEWARE COMPOSITION DISC, PLASTIC WHEEL HANDLE FOR SHUT-OFF SERVICE, MO LOCKSHIED, KEY OM FOR BLANCING SERVICE. INSTALL FER MANUFACTURER'S INSTRUCTIONS. B&G CIRCUIT SETTER DR APPROVED EQUAL

PIZZA OVEN VENTING

THE CHIMNEY SHALL BE LISTED AND MEET THE REQUIREMENTS OF THE SXTH EDMION OF UL-103. THE CHIMNEY INNER AND OUTER JACKETS SHALL BE CONSTRUCTED OF TYPE 304 STAILLESS STELL. THE INNER JACKET SHALL BE 20 GUIDE AND THE OUTER JACKET SHALL BE 22 GUIDE, MINIUM THICKNESS, A ONE INCH SPACE BETWEEN WALLS SHALL BE INSULATED. PROVIDE CHIMNEY SUPPORT JACKED, BRIVESS SHORE PIER ADARTER, STRAM COLLER, NOT BURGHANDES, SAONE BRACK KIT AND ALL OTHER ACCESSORES SHOWN ON DRAWINGS OR AS REQUIRED FOR A COMPETER FINANCE INSULATED. MENOLE SHOLM ON DRAWINGS OR AS REQUIRED FOR A COMPETER FINANCE INSULATED. MENOLE SHOLM ON DRAWINGS OR AS REQUIRED FOR A COMPETER FINANCE INSULATED. MENOLE SHOLM STELL RESULTS DATED TO STRUCTURE STOREDER. INSULATED DOUBLE WALL CHIMNEYS SHALL BE MODEL PI AS MANIFACTURED IN SCHEREN. BRIAL PER MANAFACTURERS REQUIRED FOR SAUNTACTURED. AND INSTALL PER MANUFACTURER'S FEQUIREMENTS INCLUDING CLEARANCES TO STRUCTURE AND EQUIPMENT, PROVIDE ALL EQUIPMENT AND ACCESSORIES INDICATED BY MANUFACTURER FOR A COMPLETE AND OPERALE SYSTEM.

APPLIANCE VENTING

64

<u>of</u>

18

BOLER, WATER HEATER - THE CHIMMEY SHULL BE LISTED AND MEET THE REQUIREMENTS OF THE SXTH EDITION OF LL-103. THE CHIMMEY INVER AND QUTER ACMERS SHULL BE CONSTRUCTED OF TYPE 3/04 STANKESS STELL. THE INVER JUDGET SHULL BE 20 CAUGE AND THE QUTER JUDGET SHULL BE 22 CAUGE, MINIMUM THEORESS. A ONE INCH SPACE EDIENER MAIS SHULL BE INSURATES CHIMMEY IN THEORESS. SUPPORT "ACKAGE, DRIVEN BUSINESS SHULLED, PROVIDE CHIMMEY INGHT TWIEFARTHER SLIDVIC FLORE FLASHING, ROOF BACK ETA JUDGET INSULATES NOTING SHULL BE SANGE PIPE AMAPTER, RAGNETIC DAVER, STORM DOLLAR, INGHT TWIEFARTHER SLIDVIC FLASHER FLASHING, ROOF BACK ETA JUDG ALL OTHER ACCESSORIES SHOWN OU DRAWINGS OR AS REQUIRED FOR A COMPLET FINISHED INSTALLATION. PROVIDE UL LISTED STANLESS STELLE, DAIL OF BAC DUTEL INSULATED DOUBLE WALL CHIMMENS SHULL BE MODEL PI AS MANUFACTURED FOR SCHEERER. INSTALL FOR MAINFACTURER'S REQUIREDHENT IN LOUDING CLARANCES TO STRUCTURE AND EQUIPHENT, PROVIDE LU LISTED MEEMENTS INCLUDING CLARANCES TO STRUCTURE AND EQUIPHENT, PROVIDE ALL EQUIPHENT AND ACCESSORES INDICATED BY MANUFACTURER FOR A COMPLETE AND OPERALE STRUM. A COMPLETE AND OPERABLE SYSTEM

FUEL OIL PIPING

STEEL PIPE: ASTM A53, SCHEDULE 40 BLACK. FITTINGS: ANSI/ASTM B16.3, MALLEABLE IRON, OR ASTM A234, STEEL WELDING TYPE. JOINTS: SCREWED FOR PIPE TWO INCHES AND UNDER; ANSI/AWS D1.1. WELDED, FOR PIPE OVER TWO INCHES.

DOUBLE-WALL FLEXIBLE PRIMARY PIPING: UL971 LISTED, KYNAR PVDF OUTER JACKET, BRAIDED FIBER REINFORCEMENT. HYDROLOGICALLY STABILIZED FUEL-GRADE POLYURETHANE LAYER. KYNAR PVOF CORE LAYER (POLYMINILDENE FLUORIDE). PRIMARY PIPE IS TESTED FOR TYPE A & TYPE B EXTERNAL AND INTERNAL RUIDS INSIDE AND OUT. WORKING PRESSURE: 75PSIG, 5 BAR AVERAGE, BURST PRESSURE: 600PSIG, 40 BAR, TEMPERATURE RATING: -20'T OF 1420°F, -29" TO +49"C, MINIMUM BEND RADIUS: 24 IN., 600 MM. OPW FLEXWORKS OR EQUAL

DOUBLE WALL FLEXIBLE ACCESS PIPING: CRUSH AND PUNCTURE-RESISTANT FLEXIBLE DOUBLINE TRUDIES AND THE SMOOTH INSER SUBJACE NATE FOR H-20 LOUDING. PRIMARY PIPE TITUS: PRIMARY PIPE FITTING AND COUPLINGS SHALL BE OF STANLESS STEEL CONSTRUCTION SPECIALLY DESIDENT FOR FLORING IV IN INSTALLATION OF PIPE. BRASS COUPLINGS SHALL NOT BE PERMITTED. OPW FLEXWORKS OR EQUAL

PIPE AND CONDUIT ENTRY SEALS: PPE AND CONDUIT ENTRY SEALS SHALL HAVE AN EXTERIOR STUDDED COMPRESSION RING ENCAPSULATED WITHIN RUBBER TO PROTECT IT FROM CORREGION. ALL STUDS SHALL BE STAINLESS STEEL AND EXPOSED ONLY ON THE INSIDE OF THE CONTAINMENT CHAMBER. OPW FLEXWORKS OR EQUAL

FUEL OIL TANKS

ABOVE GRADE FUEL OIL STORAGE TANK - FURNISH A 553 GALLON ABOVE GROUND, HORIZONTAL, DOUBLE-HALL TYPE I, STELE STORAGE TANK, TANK SHALL BE FABRICATED FROM MULD CARBON STELE. WITH FLAT-FUANCED HEALS, MINIMUM INNER FLAW FICKNESS 12 GAUGE HEAL ON STELL MINIMUM OTER TANK HICKNESS IG GAUGE HEAL AND FILE STATUS MOD STELL MINIMUM OTER TANK HICKNESS IG GAUGE HEAL AND FILE STATUS MOD STELL MINIMUM OTER TANK HICKNESS IG GAUGE HEAL AND FILE STATUS STELL MINIMUM OTER TANK HICKNESS IG GAUGE HEAL AND FILE STATUS STEPERIZITION AND SOLARD FOR THE MOD FILE STATUS HICKNESS IL GAUGE STUDIESS UL-142 STEPERIZITION AND SOLARD FILE AND FILESS IL GAUGE SUCH STATUS STEPERIZITION AND SOLARD FILE ON CONFIDENCE MINI MORE SIGNAL FILE SAUGESS IL-142 STEPERIZITION AND SOLARD FILE STATUS SPECIFICATIONS AND SO LABELED.

SEISMIC RESTRAINT

SEISMIC RESTRAINT - ALL EQUIPMENT INSTALLED UNDER THIS PROJECT SHALL BE BRACED FOR A SEISMIC EVENT AS PER ASCE 7. CONTRACTOR TO PRIVIDE SEGUIC RESTRAINT CALCULATIONS AND SHOP DRAWINGS, INCLUDING STRUCTURAL DEGINEERS STAMP AND SIGNATURE TO STATE FIRE MARSHAL'S OFFICE FOR REVIEW.

INSTRUMENTATION / CONTROLS

STEM TYPE THERWOMETERS - 9 INCH SCALE, UNIVERSAL ADJUSTABLE ANGLE, RED APPEARING WERCURY, LENS RRONT TUDE, CAST ALJUMINIM CASE WITH BLUEBLACK METALLUC FINISH AND CLEAR LEXAN WINDOW, EXTENDED BRASS STEM, CAST ALJUMINUM ADJUSTABLE JOINT WITH POSITIVE LOCKING DEVICE, 2 FREEDER OF SCALE ACCUMPLY TO ASTMET/R, SCALE COLLIBRATED IN BOTH DEGREES F AND DEGREES C. MODEL AA5H-9 AS MANUFACTURED BY WEKSLEF

PRESSURE GAUGES - SOFT SOLDERED PHOSPHOR BRONZE BOURDON TUBE AND BRASS SOCKET. ILLACK FINISH STEEL CASE, PLASTIC FACE, DUAL SCALE RANGES IN BOTH PSI AND KPA, 1/4 NPT CONNECTION, MODEL UA AS MANUFACTURED BY WEKSLER.

GAUGE COCKS - BRASS CONSTRUCTION, TEE HANDLE, 125 PSI MAXIMUM WORKING PRESSURE. MODEL A10 AS MANUFACTURED BY WEKSLER.

THERMOSTARS — PROGRAMMABLE DIGITAL, SINGLE STAGE HEATING ONLY, PROGRAMMABLE FOR 7 DAY OR 24 HOUR SCHEDULES, PROGRAMMABLE FOR 2 TO 4 TEMPERATURES PRO DY DAY OR 24 HOUR SCHEDULES, PROGRAMMICS SHULL NOT BE EFFECTED BY POWER OUTLAGES, 2*** BOX MOUNTING ADAPTER. CONTRACTOR SHALL PROVIDE INFLA. PROGRAMMICS SHULL PROVIDE MILLA PROGRAMMICS SHULL PROVIDE MILLA PROGRAMMICS SHULL PROVIDE MILLA PROGRAMMICS SHULLA PROVIDE MILLA PROVIDE MILLA PROVIDE MILLA PROVIDE MILLA PROGRAMMICS SHULLA PROVIDE MILLA PROVIDE MILLA PROVIDE MILLA PROGRAMMICS SHULLA PROVIDE MILLA PROVIDA PROVI

THERMOSTAT GUARDS - LOCKING, CLEAR ACRYLIC, COMPLETE WITH BASE PLATE, ALL GUARDS SHALL BE KEYED ALIKE. HONEYWELL MODEL TGS10A1001 OR APPROVED EQUAL

CONTROL WALVES -- SELECT VALVES TO FAIL SAFE IN THE HEATING POSITION. SELECT TWO-WAY VALVES FOR LIQUIDS TO HAVE EQUAL, FERCENTAGE CHARACTERISTICS. PROVIDE VALVES WITH END SWITCH CONTACTS. SIZE VALVE OPERATORS TO CLOSE VALVES AGAINST FUMP SHUT OFF HEAD. SIZE FOR MAXINUM 3 PSI DROP.

SEQUENCE OF OPERATION

Rodant Hrating – when zone thermostat calls for heat, a motorized valve shall open at the manipold for that zone. An edd switch on the motorized valve shall sond a social to the controller to is zonat to the controller of zonat the rodant system puny. ρ_{e-2} , and the indecton puny ρ_{e-3} the controller of subt the spect of the size of the subsci the subsci the spect of the subsci the subscit the subsci the subsci the subsci the subsci the s

KICHEN HOD EDWLIST - A HEAT SENSOR SHALL BE INSTALLED IN THE COOKING HODD THAT WILL START THE KICHEN HODD EDWLIST EAN, EF-L, ANN MAKE-UP AIR UNIT, MALL-1, A MUNIAL SWITCH SHALL AND BE INSTALLED TO OPERATE EA-L ANN MALL-MALLEN LEDE TO KEEP THE MALL-SUPPLY-AIR SEPTORT. UPON ACTIVATION OF THE KICHEN HODD FIRE SUPPRESSION WILL SUPPLY-AIR SEPTORT. UPON ACTIVATION OF THE KICHEN HODD FIRE SUPPRESSION SYSTEM, EF-1 AND MAU-1 SHALL SHUT-OFF IMMEDIATELY.

CP-1 - PUMP SHALL BE SET TO RUN WHEN BOILER IS ON.

 $\underline{B-1}$ — The Boiler shall operate when dutdoor tedp is below 60 deg F (adjustable) or during any call for heat by the radiant floor, $\underline{CH-1}$, or $\underline{Mal-1}$. The Boiler shall operate to maintain temperature at 160 deg F_1+7-5 deg F_1 .

CHU-1 - SHALL MAINTAIN ENTRY VESTIBULE AT 65 DEG F (ADJUSTABLE).

<u>UH-1</u> - SHALL BE USED ONLY AS EMERGENCY HEAT AND SHALL BE SET TO MAINTAIN THE SPACE AT 45 DEG F (ADJUSTABLE).

Architects Alaska® An Alaskan Corporat Landscape Architecture

Anchoroge, Alaska 9950 (907) 272-3567 191 E. Swonson Avenue Wasilia, Alaska 99654 (907) 373-7503





PLANNING

COMMIS

DECEMB

MBER

9. R

201

4 Þ ₽

EGUL

MEETING

Revisions

Checked

Category

М

No. Description Date

Drawn by Date

Sheet Contents

Job No.

Sheet No

1.04









COMMISSION REGULAR MEETING DECEMBER 9, 2014

PLANNING



COMMISSION REGULAR MEETING DECEMBER 9, 2014

PLANNING



DECEMBER 9, 2014

PLANNING



	LE	GEND	
0	LIGHT FIXTURE - SURFACE MTD ON CLG	10	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)
Ю	LIGHT FIXTURE - SURFACE MTD ON WALL	A-2	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)
0	EMERGENCY EXIT LIGHT - SURFACE MTD CLG	>	PANEL
Ð	EMERGENCY EXIT LIGHT - SURFACE MTD WALL	ð	DUPLEX RECEPTAGLE
4	ENERGENCY LIGHT	65	DUPLEX RECEPTAGLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	EMERGENCY FIXTURE - FLUORESCENT	4	QUADRAPLEX RECEPTACLE
	FLUORESCENT FIXTURE - RECESS MID		SPECIAL PURPOSE OUTLET
	FLUORESCENT FIXTURE - SURFACE MTD	M	TELEPHONE OUTLET
_ 	FLUORESCENT FIXTURE - WALL MTD	Ø	JUNCTION BOX
-	FLUORESCENT FIXTURE STRIP - SURFACE MTD CLG		NOTE TAG (No. INDICATES NOTE)
A	FIXTURE TAG (LETTER INDICATES TYPE)	c	CONDUIT
0	PHOTOCELL	OF	COMPACT FLUORESCENT
۰	PUSHBUTTON	C0	CONDUIT ONLY
6	MOTOR (SIZED AS NOTED)	E	DENOTES EXISTING ITEM
Ъ	DISCONNECT SWITCH	EM	DENOTES EMERGENCY POWER
6	DISCONNECT SWITCH (FUSED)	GRSC	GALVANIZED RIGID STEEL CONDUIT
6 8	COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER	HPS	HIGH PRESSURE SODIUM
\$	FRACTIONAL HORSEFOWER MOTOR STARTER	MH	METAL HALIDE
\$	SINGLE POLE SWITCH	NL	NGHTUGHT
\$1	THREE WAY SWITCH	0Z	HALOGEN
\$,	PILOT LIGHT SWITCH	UON	UNLESS OTHERWISE NOTED
_	CONDUIT, CONCEALED	WP	WEATHERPROOF

		MANUFACTURER AND CATALOG		MOUN	TING	LM	MPS		BALLAST	NPU	
TYPE	LOCATION	NUMBER (OR APPROVED EQUAL)	LUMINARE DESCRIPTION	TYPE	HEXHT	NO.	NO. WATTS		TYPE	WATTS	
А	AS SHOWN	METALUX #WS-432-ER82	WIDE BODY SURFACE NOUNTED WRAP AROUND, STEEL HOUSING WITH WHITE POLYESTER POWDER ENAMEL FINISH, PRISMATIC ACRILIC LENS, DAMP LISTED, AND UNVERSAL VOLTAGE BECTROME BALLST.	PENDANT	+10'-0" AFF	4	32 18	4	UNIVERSAL VOLTAGE ELECT. PROGRAM START BALLAST.	120	
В	RESTROOMS	METALUX #BAU-232-UNV-ER81	WALL BRACKET WITH UPLICHT, BRUSHED ALUMINUM HOUSING, WHITE POLYESTER POWDER EXAMEL FINISH, ACRIUC DIFFUSER, DARP LOCATION LISTED AND UNVERSAL VOLTAGE RECTRONC BALLIST.	2	32 T8	1	UNIVERSAL VOLTAGE ELECT. PROGRAM START BALLAST.	60			
С	DINING	BRUCK #220-941-MC-MP2	PDDANT MOUNT LOW VOLTACE FORTHER WITH OPAL PASS SHADE, AND WITE CHRONE FINISH. AND PROVDE 2" SUIFACE MOUNTED CANOPY WITH SOW, 120/ TRANSFORMER, FEDL OUT CARE.					50VA, 120V TRANSFORMER	50		
D	DINING	METALUX #0T-432-0-R	RESIDENTIAL SURFACE MOUNTED DECORATIVE FIXTURE WITH SOLID WOOD TRINS, OPAL WHITE ACRYLIC DIFFUSER, BAKED WHITE DAMEL FINISH, AND ELECTRONIC BALLAST.	ESIDENTIAL SURFACE MOUNTED DECORVING FIXTURE SURFACE CELING 2 32 TTH SOLD WOOD TRINS, OPAL WHITE ASTRUC FIVISER, BAKED WHITE DAVALE, INVISI, AND					120V ELECTRONIC INSTANT START BALLAST	60	
Е	EXTERIOR	SHAPER #694-16-WP-MH/1/50- 120V-ALP	EXTERIOR WALL MOUNTED CLASSIC QUARTER DOWNLIGHT, WHITE ACRYLIC DIFFUSCR, AND ALUMININ POLYESTER POWDER PAINT FINISH.	WALL	+7'-0" AFF	1	50 MH	1	120V ELECTRONIC BALLAST	67	
F	PREP CLEANING	METALUX #2GC8-432A-UNV-ER82	RECESSED 2'x4' LENSED TROFFER, WITH BAKED WHITE RECESSED CELING 4 32 ENAMEL FINISH, AND ACRILIC PRISMATIC LENS.					2	UNIVERSAL VOLTAGE ELECT. PROGRAM START BALLAST	120	
G	VESTIBULE	SHAPER #449-EL-24-CFL/4/25- 120V-MW-15AC-48	PENDANT MOUNTED FDIURE, ELLIPTICAL ACTYLIC BOML WITH MATTE WHITE TRIM, 48° SINGLE STEM ARCRAFT CABLE PENDANT.	+7'-0" AFF	4	26 DΠ	N/A	INTEGRAL MULTI-VOLT ELECTRONIC BALLAST	108		
Н	BOILER ROOM	METALUX #SNF-232-UNV-ER81- WG/SNF-4FT	STANDARD 4' STRIP FOTURE WITH BAYED WHITE DAWED. SURFACE CELING 2 32 1 PINESH, AND WIRE GUAID.					1	UNIVERSAL VOLTAGE ELECT. PROGRAM START BALLAST	60	
Х	AS SHOWN	UTHONIA ALHOM-LED-R-HORD	WHITE THERMOPLASTIC, DUT SIGN WITH RED LED WALL ABOVE N/A 4.3 1 0 STENDLED LETTERS, SUF-DWGNOSTIC CRCUTTRY, UNIVERSAL WOUTHING, HOH-OUTPUT IN-CAD				DUAL VOLTAGE INPUT ELECTRONIC DRIVER	4.3			
X1	EXTERIOR	LITHONIA FELA-T-QWF-L0309-SD	WEATHERPROOF TWIN HEAD REMOTE EMERGENCY FIXTURE WITH GRAY FINISHED CAST ALUMINUM HOUSING, AND RATED FOR 9.6V.	WALL	ABOVE	2	1.5 LED	N/A	N/A	N/A	
X2	AS SHOWN	LITHOMA #ELM2-LED-SD	WHITE THERMOPLASTIC EMERGENCY LIGHTING UNIT, WITH (2) FULLY ADJUSTABLE LAMPS, AND SELF-DIAGNOSTIC CIRCUITRY.	WALL	+7'-0" AFF	2	1.5 LED	N/A	DUAL VOLTAGE	1.44	

MF	R/M(NDEL:	SQUARE 'D' TYPE NO	VOLTS:	120/240	0V,1PH,3	W	ENCL	OGURE	NEMA 1		200	A
TYPE PANELBOARD			VOLT-AMPS				MTG SURFACE						
CIRC	POLE	AMPS	SE RVICE	TYPE		A		в	TYPE	SERVICE	AMPS	POLE	CIRC
11	1	20	KIT DAING EXT-RECP	RECP	1,080.1	402			LTIS	EXTEROR LIGHTS	20	1	2
1ā	1.	20	PREPAREA ROOF-RECP	RECP			360	792	LTG	KIT DINING - LTG	20	1 1	4
16	1	20	OFFICE BOILER UN-1 - RECP	RECP	800	622			1.10	DWING, VEST-LTG	20	1	6
7	1	20	RESTROOMS RECP	RECP			540	900	1.TG	INCOME AND A BOLER RESTROOMS - LTC	20	1	8
19	1	15	CUH-1(VEST)	MOTR	100	6,000			MEC	WASHER/DRYER	70	2	10
11	1	15	REF. FRZA PREP	SPEC			948	6,000	MISC	1.0	70	2	12
113	1	-20	CASHER/POSI-RECP	RECP	MIC	89			MOTR	CP-3	15	Y	14
15	14	15	WORK TOP FREEZER	SPEO			1,140	528	MOTR	CP 2	15	1	16
17	1	20	WALK-IN LIGHTING AND DOOR HEATER	LTG	E00	696			MOTR	B-1	15	1	18
19	1	15	EXHAUST HOOD	MOTR		-	420	230	MISC	WH-1	15	1	20
21	1	25	ICE MACHINE	MOTR	1.530	100			SPEC	PIZZA OVEN	15	1	22
23	1	15	DISPLAYCASE	MSC			900	1,440	MOTR.	MUA	25	2	24
25	2	50	DISHWASHER	SPEC	4,550	1,440	· · · · · ·		MOTR	14	25	2	26
27	2	50	**	SPEC			4 550	1,650	MOTE	EF-1	25	1	28
29	1	20	SODAFOUNTAINE	RECP	1,800				1000	SPARE	20	1	30
31	2	15	WALK-IN COOLER	MOTR	-		628	828	MOTR	CP-1	15	2	32
33	2	15	AA.	MOTR.	828	828			MOTR	ni.	15	2	34
35	2	40	60 QUART MIKER	MOTR			2 160		1.000	SPACE		1	36
37	2	40	8.A	MOTR	1,160	1 1	1			SPACE		1	38
39	2	30	WALK-IN FREEZER	MOTE			1.812			SPACE	-	1	40
41	2	30	4.6	MOTR	1.812	L	1			SPACE	-	1	42
-			TOTAL V-A			25,623	1	26,036		51,659	VA	1	-
			TOTALAMPS			214		217		2.2	A	-	
-			A.I.C. PATING: 10,000		_		-						

	ELECTRICAL LOAD	CALCULATION	
PROJECT: DATE :	CORDOVA PIZZA		
COMPUTED LO	AD INRO 220, NO		
BULDING AREA	1,147 by Fi		
LIGHTING LOAD			
GENE	RAL JOHNNIS PRITTILD	OR (CONNECTED)	3.316 VA 4.041 VA
OENE	TER OF THE TWO LOADS	OR (AT 3 VA/SF) ABOVE	4,041 VA 4,041 VA
-	ROM LIGHTING		1,092 VA
	L CONTINUOUS LOAD		5,133 VA
suet	TAL LIGHTING LOAD A	7 12/14	6,41E VA
NONCONTINUO	S NOTOR AND EQUIPME	INTLOADS	
ALAR			2.88C VA
WAR	HER/DRVD-R		12.00C VA
CASH	ER.		180 VA
-CP-1			1.65E VA
053			52E VA BE VA
	IN NEATER WILL		230 VA
	6 H000		420 VA
8-1			696 VA
87.4			1,65E VA
DUH-			10C VA
EXHA	UST FANS EP 3		174 VA 696 VA
	ROLER		696 VA
#HIZZA	OVEN		10C VA
shirt i	HEATER (M.)		47 VA
25%)	ROTOM TEBERA		22.86E VA
KITCHEN LOAD	E		
REP	PUZZA PREP	48 VA	
DISP	AY CASE	900 VA	
60 01	AT HE H	4 /20 VA	
WAD	IN COCLER	1.620 VA	
WAL	TOP FREEZER	1.140 VA	
	ACHEE	1/020 VA	
SODA	FOUNTAINE	1,800 VA	
DISH	NATHER	4,800 VA	
	TOTAL	21,072 VA	
КЛСН	EN EQUIPMENT DEMAND	FACTOR NEC 220.56 6 AT65%:	13,697 VA
RECE	PTACLE LOAD (NEC TABL	E 220.44)	
RECE	PS AT IBOVA	13 2,340 VA	
	0 @ 100%		2.340 VA
	OMPUTED DEMAND LOA		45.321 VA
	ER/SERVICE SIZE FOR 12		
SERVICE:	EPUBERIVICE SIZE FOR 12	PARTY, SINGLE PHAS	
	321 947 240/ -	188.8 4	

PLANNING COMMISSION REGULAR MEETING DECEMBER 9, 2014

Architects Alaska® An Alaskan Corporation Archilecture Landscape Archilecture Interior Archilecture

900 West Fifth Avenue Anchoroze, Alaska 9950 (907) 272–3567 191 E. Swanson Avenue Roslin, Alaska 99654 (907) 373–7503

 R
 S
 A

 Mechanical and Electrical Consulting Engineers
 100 Sectors
 100 Sectors

 3527 Arcit Roberts (consulting Engineers)
 100 Sectors
 100 Sectors

annun li ST A GENERAL BALL

HARBORSIDE PIZZA Cordova, Alaska

Revisions No. Description Date

Drawn by Date PCC 11 NOV 13 Checked Job No. TDH, RLW L3241.00 Sheet Contents ELECTRICAL LEGEND, PANEL SCHEDULE, FIXTURE SCHEDULE AND LOAD CALCULATIONS

Category Sheet No. Е

1.01

Consultant





U 5

Pf

8

OPERATION AND MAINTENANCE MANUALS - PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF THE OWNER'S PERSONNEL DESCRIBE THE PROCEDURES NECESSARY TO OPERATE THE SYSTEM

CONDUITS: MARK ALL CONDUITS ENTERING OF PANELBOARDS WITH INDOLIBLE BLACK MAGIC MARKER CIRCUIT NUMBERS OF TH; CIRCUITS CONTAINED INSIDE.

AINCTION BOXES: MARY ALL CIRCUIT NUMBERS OF WIRNC ON ALL JUNCTION BOXES WITH SHEET STEE, COVERS, MARY WITH NOUBLE BLACK MARKER, ON INSIDE OF COVER, MARY ALL OTHER SPECIAL SYSTEM JUNCTION BOXES WITH SHEET STEEL COVER.

PELOR STOLE ANALISE DALLS MILE SELLE SELE LODES. WOLTE - AL WRIGE SHILE E RESULTE DISCRETURE ACCOUNT REDEW SHILL ER ISSUELD CONSULT DISCRETURE, SERLE MILE GAUNCED DALLS SHILL DISCRETURE, SERLE UTLE GAUNCED DALLS SHILL DISCRETURE, SERLE UTLE GAUNCED DALLS SHILL DISCRETURE, SERLE UTLE GAUNCED DALLS SHILL DISCRETURE, SERLE CONTACT MIN. CONCETT ON ELEM SAU ON GAUGE. LEDIFICU UTLE GAUNCED DALLS SHILL DISCRETURE SHILL DISCRET DISCRETURE SHILL DISCRETURE SHILL DISCRETURE SHILL DISCRETURE DISCRETURE SHILL DISCRETURE SHILL DISCRET LEDIFICU ELEMENT SHILL DISCRETURE SHILL DISCRETURE SHILL DISCRET LEDIFICU LEDIFICU

BROCHARDS: MALEDANGS - PROFE EDG-TROT CRUIT BENERD FAILLOADS WH BIS SZE SHEFT COLUT RITHS, NURSE AND SZE OF BRUNCH GROUTS SOMEN ON HE DRIVENCE, DURINES SHULL BE 5 NORSE SCED PT 20 NORSE WE MANA, PROFE WIT RUSH DRIVENCE GROUTS SOMEN ON HE DRIVENCE WATER RUSH DRIVENCE GROUTS STANKON GROUTS DRIVENSE AND NURSENSE STANKON GROUTS DRIVENSE AND SZE OF BRUNES STALLE BEUT-ON TROMUL MODIET DRI THE WIT COLUMN TOP WOLE TOR ALL ROLE. MODIET DRI THE WIT COLUMN TOP WOLE TOR ALL ROLE. MODIET DRI THE WIT COLUMNS, ROLE BE BUT-ON TROMUL MODIET. DRI THE WIT COLUMN TOP WOLE TOR ALL ROLE. MODIET DRI THE WIT COLUMNS, ROLE BUT-ON TROMULE MODIET. THE THE WIT COLUMN TOP WOLE TOR ALL ROLE. MODIET. THE THE WIT COLUMNS, ROLE BUT-ON TROMULE MODIET. THE THE WITH COLUMNS, ROLE BUT ON TROMULE BUT DO THE ORDER FOR PRELIDARE. MORE THE DO CRUIT BETTER OR AND THE DO ROLES FOR AND RECTORY TO RECENTS & INCOMES FOR JOINT OF ROLEDARE BUTCOT TO THE THE COLUMNS & INCOMES FOR JOINT OF ROLEDARE BUT AND RECTORY TO RECENTS & INCOMES FOR JOINT OF ROLEDARE DISALESTION TO RECTOR TO RECENTS & INCOMES FOR JOINT OF ROLEDARE AND RECTORY TO RECENT OR DUTING DAVES ROUMED TO BUAKEE FOR AND ALL ROLES COLUMNS OF BOLING ROLEST TO BUAKEE STANK STALL OR CRUIT OR MONES ROUMED TO BUAKEE STANK STALL OR CRUIT OR MONES ROUMED TO BUAKEE AND RECTOR TO RECENT OR RUTHER DAVES ROUMED TO BUAKEE AND RECTOR TO RECENT OR RUTHER DAVES ROUMED TO BUAKEE AND RECTOR TO RECENT OR RUTHER DAVES ROUMED TO BUAKEE AND READARE AND ALL ROLES AND READARE TO ROLES FOR JOINT OF ROLEST TO BUAKEE STANK STALL TO ROLEST FOR JOINT OF MONES ROUMED TO BUAKEE AND READARE AND ALL ROLEST CRUITING DAVES

RECEPTACLES - PROVIDE NEWA 5-20R DUPLEX GROUNDING TYPE

SIEL OWN FAIL SUPPORTS DAKES REPORTED TO THE UDTE BOX FOR ALL PORCE MORE STATUS ALL ALL USTING COUNTE BOX FOR APPROVED DEVICE AS SIGNAL ALL USTING DEVINED TO ALL ALL DATES DAVID DEVICES AND ALL DATES DEVINDENT COMPLEX INFORMET CALL LISTING DEVINENT NOTATION STATUS THE ASSEMBLY, INFINITE FUNCTS, UNATING STATUS THE ASSEMBLY, INFINITE FUNCTS, NOTATION STATUS THE ASSEMBLY AND ALL DATES DEVINDENT COMPLEX INFORMATION AND ALL DATES DATES TO THE ALL DATES AND AND ADDRESS AND ALL FOR ALL FLORESCONT FORMERS AND AND FOR THE ADDRESS FOR ALL FLORESCONT FOR HER AND AND ADDRESS FOR HOME FLORESCONT AND STATUS ALL DEVINE AND ADDRESS FOR HOME FLORESCONT AND STATUS AND ADDRESS FOR HOME AND ALL FLORESCONT AND STATUS AND ADDRESS FOR HOME FLORESCONT AND STATUS AND ADDRESS FOR HOME AND ALL FLORESCONT AND STATUS AND ADDRESS FOR HOME FLORESCONT AND STATUS AND ADDRESS FOR HOME AND ALL FLORESCONT AND STATUS AND ADDRESS FOR HOME FLORESCONT AND STATUS AND ADDRESS FOR HOME AND ALL FLORESCONT AND STATUS AND ADDRESS FOR HOME AND ALL FLORESCONT AND STATUS AND ADDRESS FOR HOME AND ADDRESS FOR ADDRESS FOR HOME AND ADDRESS FOR HOME ADDRESS FOR ADDRESS FOR HOME AND ADDRESS FOR HOME ADDRESS FOR ADDRESS FOR HOME AND ADDRESS FOR HOME ADDRESS FOR ADDRESS FOR HOME ADDRESS FOR HOME ADDRESS ADDRESS FOR ADDRESS FOR HOME ADDRESS FOR HOME ADDRESS ADDRESS FOR ADDRESS FOR HOME ADDRESS FOR HOME ADDRESS ADDRESS FOR ADDRESS FOR HOME ADDRESS FOR HOME ADDRESS ADDRESS FOR ADDRESS FOR HOME ADDRESS FOR HOME ADDRESS ADDRESS ADDRESS FOR ADDRESS FOR HOME ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS FOR ADDRESS FOR HOME ADDRESS ADDR

EQUIPMENT CONNECTIONS - PROVIDE WIRING AND CONNECTION OF EQUIPMENT REQUIRING ELECTRICAL POWER BUT SPECIFIED UNDER

LATERA CONJUSTIS TO SEMALE INTRAME INCLUDIS: LATERA CONJUSTIS TO SEMALE INTRAME INCLUDIS: NEW KS 2. AL OREMA-PURPICE CLASS & MUCRETS CONTINUER FOR BECTION ADDITS STUD IN ANDIONER. THL IN THE RELITION ADDITS STUD IN ANDIONER. THL IN THE RELITION ADDIT THE COMMEND ADDITS THE STUDIES RELITION ADDIT THE COMMEND ADDITS THE STUDIES RELITION ADDIT THE COMMEND ADDITS THE STUDIES TORISTICT. FROMEWORK LIGHT IN THE STUDIES WITH MOTE MEDITE ADDIT THE COMMEND ADDITS THE ADDIT TORISTICT. FROMEWORK LIGHT IN THE STUDIES TORISTICT. FROMEWORK LIGHT IN THE STUDIES TO MEDITAL DISTINGTIONE LIGHT IN FROME RELITION ADDITES ADDITES ADDITES TO MEDITAL REST ADDITESTICS. MOTES THE ADDIT DESTINGTIONERS ADDITESTICS. MOTES THE REFERST MEDITAL MOTESTICS ADDITESTICS. MOTES THE ADDITESTICS ADDITESTICS. CODE LIGHT APPROXEMENTS. MOTE STUDIES ADDITESTICS MEDITAL MOTESTICS ADDITESTICS. MOTES THE ADDITESTICS MEDITAL MOTESTICS ADDITESTICS. MOTES THE ADDITESTICS MEDITAL MOTESTICS ADDITESTICS. MOTES THE ADDITESTICS MEDITAL MOTESTICS ADDITESTICS. MOTES ADDITESTICS MEDITAL REST ADDITESTICS. MOTES ADDITESTICS MEDITAL REST ADDITESTICS. MOTES ADDITESTICS MEDITAL ADDITESTICS ADDITESTICS ADDITESTICS ADDITESTICS ADDITESTICS MEDITAL ADDITESTICS ADDITESTICS ADDITESTICS ADDITESTICS ADDITESTICS MEDITAL ADDITESTICS ADDITS ADDITESTICS ADDITESTICS ADDITST

FRACTIONAL HORSEPONER MANUAL STATTER - NEWA ICS 2; AC GENERAL-PURPOSE CLOSS A WANAULY OPERATO. NUMBER OF POLISE AS REQUERED THE LIDA SEMD, PLIL-VIEWE CONTROLLER FOR FRACTIONAL HORSEPONER REQUERTION MOTING, WITH THERMAL OVERLIDA UNI, RED LED FRUID (UNIF, MOT TOGE OPERATOR.

ARC-FLASH SIGNAGE - ALL, MOTOR STATEDS, MOTOR CONTROL CONTEXS, PANELBOARDS AND FUSED DISCONNECTS SHULL HAVE SIGNAGE FOR ARC HAZARD INSTALLED. THE MARKING SHALL BE LOCATED TO BE CLEARLY VISIBLE TO QUALIFIED PERSONNEL BEFORE DAMINITION, AUJUSTILENT, SERVICING OF MAINTEWINE OF THE

Revisions					
No.	Cate				
Dro PCC	iwn by	Date 11 NO			
	ecked	Job No.			
TD4,	RUW	L3241			
She DET/	eet Con				
DET		tents			
DET	NLS	tents	et No.		

PLANNING

COMMIS

MEETING

Memorandum

То:	Planning Commission
From:	Planning Staff
Date:	12/4/14
Re:	Review of Proposals for Lot 4A, Block 5, North Fill Development Park Addition No. 2

PART I – GENERAL INFORMATION

Requested Actions:	Review Proposals and give a recommendation to City Council						
Legal Description:	Lot 4A, Block 5, North Fill Development Park Addition No. 2						
Parcel Number:	02-060-128						
Zoning:	Waterfront In	Waterfront Industrial District					
Lot Area:	8,267 sq. ft.						
Attachments:	Proposal Pac	Proposal Packet (The packet distributed to potential proposers)					
	Proposals:	Nerka Enterprises					
		Becky Chapek					
		Native Village of Eyak					
		Bayside Storage					
		Prince William Sound Science Center					

The public notice period for this property disposal began Oct. 30th and ended Dec. 1st at 10 AM. The City received five proposals for the property. The lot has been used by the City as an Impound Lot for several years. The City will move the impound lot to the landfill as it becomes necessary.

While the lot is 8,267 SF and the minimum lot size for the Waterfront Industrial District is 10,000 SF, the City is able to sell the lot. The City approved the subdivision of Lot 4 in 2001 thus approving two lots that did not meet the standard lot size for that zoning district. Any proposal for future development on the lot will be required to meet all the Waterfront Industrial code requirements except for the minimum lot size.

The proposed price from each proposal is as follows (minimum bid = \$48,000):

Nerka Enterprises	\$48,500
Becky Chapek	\$54,000
Native Village of Eyak	\$48,000
Bayside Storage	\$50,400
Prince William Sound Science Center	\$70,000

PART II – APPLICABLE CRITERIA

<u>Chapter 5.22 – REVENUE AND FINANCE – DISPOSAL OF CITY REAL PROPERTY – Methods of</u> <u>disposal for fair market value.</u>

D. A request for proposals to lease or purchase city real property shall specify the criteria upon which proposals shall be evaluated, which may include without limitation the type of proposed development and its benefit to the community, the qualifications and organization of the proposer, the value of the proposed improvements to the real property, and the required rent or purchase price. All proposals submitted in response to a request for proposals shall be reviewed by the planning commission, which shall recommend a proposal to the city council for award.

Review of Proposals for Lot 4A, Block 5, North Fill Development Park Addition No. 2 Page 1 of 2 $\,$

57 of 183

PART III - SUGGESTED MOTION

"I move that the Planning Commission recommend City Council approve the proposal from to purchase Lot 4A, Block 5, North Fill Development Park Addition No. 2."

Review of Proposals for Lot 4A, Block 5, North Fill Development Park Addition No. 2 Page 2 of 2



Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 4A, Block 5, North Fill Development Park Addition No. 2 is **<u>\$48,000.00</u>**. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$_____

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

59 of 183

Additional Information Required (please attach separately with this proposal form):

- 1. Describe the type of business you're proposing to develop.
- 2. What is the proposed square footage of the development?
- 3. Provide a sketch, to scale, of the proposed development in relationship to the lot. (Attachment C)
- 4. What is the benefit of the proposed development to the community?
- 5. What is the value of the proposed improvements (in dollars)?
- 6. What is your proposed timeline for development?

Included for your convenience:

Attachment A: Criteria used when evaluating each submitted proposal.
Attachment B: A location map showing the subject property.
Attachment C: The property parcel with measurements.
Attachment D: Cordova Municipal Code - Waterfront Industrial District

City of Cordova
Planning Department
C/O Proposals
P.O. Box 1210
Cordova, Alaska 99574

<u>Or email proposals to planning2@cityofcordova.net.</u> The email subject line shall be "Proposal for Lot 4A, Block 5," and the proposal shall be attached to the email as a PDF file.

Or deliver your proposal to the front desk at City Hall.

For questions or more information about the land disposal process, contact the City Planning Department at 424-6220, planning2@cityofcordova.net, or stop by in person.

Proposals received after December 1st, 2014 at 10 AM will not be considered.

Each proposal will be evaluated on the criteria in the table below. Each criteria will be scored from 1-10. The multiplier will then be applied to the scores to determine a final score.

Final Land Disposal Evaluation Criteria

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		









Chapter 18.33 - WATERFRONT INDUSTRIAL DISTRICT

Sections:

18.33.010 - Purpose.

The following statement of intent and use regulations shall apply in the WI district:

The waterfront Industrial district is intended to be applied to land with direct access or close proximity to navigable tidal waters within the city. Uses within the waterfront industrial district are intended to be marine-dependent or marine-oriented, and primarily those uses which are particularly related to location or commercial enterprises that derive an economic benefit from a waterfront location.

(Ord. 634 (part), 1988).

18.33.020 - Permitted principal uses and structures.

The following are the permitted principal uses and structures in the waterfront industrial district:

- A. Marine sales;
- B. Open wet moorage;
- C. Covered wet moorage;
- D. Passenger staging facility;
- E. Haulout facilities;
- F. Marine construction, repair and dismantling;
- G. Cargo terminal;
- H. Cargo handling and marine-oriented staging area;
- I. Fish and seafood processing;
- J. Warehousing and wholesaling;
- K. Open storage for marine-related facilities;
- L. Fuel storage and sales.

(Ord. 634 (part), 1988).

18.33.030 - Permitted accessory uses and structures.

- A. Bunkhouses in conjunction with permitted principal uses;
- B. Residential dwelling for watchman or caretaker employed on the premises, or owner-operator and members of his family, in conjunction with permitted principal uses;
- C. Retail business when accessory to a permitted principal use.

(Ord. 634 (part), 1988).

18.33.040 - Conditional uses and structures.

Subject to the requirements of the conditional use standards and procedures of this title, the following uses and structures may be permitted in the WI district:

- A. Log storage and rafting;
- B. Timber and mining manufacturing.

(Ord. 634 (part), 1988).

18.33.050 - Prohibited uses and structures.

Any use or structure not of a character as indicated under permitted uses, accessory uses, or conditional uses.

(Ord. 634 (part), 1988).

18.33.060 - Setbacks.

- A. Minimum Setbacks.
 - 1. Front yard-Twenty feet.
 - 2. Side yard and rear yard: subject to Uniform Building Code regarding fire walls and separation of buildings.

(Ord. 634 (part), 1988).

18.33.070 - Lot coverage.

A. Maximum lot coverage by all buildings and structures as regulated by the Uniform Building Code.

(Ord. 634 (part), 1988).

18.33.080 - Height.

A. Maximum height of buildings and structures: subject to Uniform Building Code regarding building heights.

(Ord. 634 (part), 1988).

- 18.33.090 Off-street parking and loading.
- A. Off- street Parking and Loading. The requirements for off-street parking and loading in the waterfront industrial district shall be as set forth in Chapter 18.48 of this code.

(Ord. 634 (part), 1988).

- 18.33.100 Minimum lot requirements.
- A. Minimum Lot Requirements.
 - 1. Lot width: 100 feet;
 - 2. Lot size: 10,000 feet.

(Ord. 634 (part), 1988).

18.33.110 - Signs.

A. Signs. Signs may be allowed in the waterfront industrial district subject to the supplementary district regulations, the Uniform Sign Code, as set forth in Chapter 18.44 of this code.

(Ord. 634 (part), 1988).

18.33.120 - Floor elevations.

A. Minimum Finished Floor Elevations. In the waterfront industrial district, the following minimum finished floor elevations for the ground floor shall be adhered to:

North Fill Development Park

Block 1		
Lot 1	27.00′	
Lot 2	26.50'	
Lot 3	27.25′	
Block 2		
Lot 4	27.25′	
Lot 1	26.50'	
Block 3	1	
Lot 2	26.25'	
Lot 1	26.50'	
Block 4	I	
Lot 1	27.25'	
Lot 2	27.25'	
Lot 3	27.25'	
Lot 4	27.25'	
Lot 5	26.25'	
Block 5	1	
Lot 1	27.25′	
Lot 2	27.25'	
Block 6	1	

Lot 2	26.50'	
Lot 1	26.25'	
Block 7		
Lot 2	26.50'	
Lot 3	26.25′	
Lot 1	26.75′	
Lot 3	27.25'	
Block 8		
Lot 1	27.00'	
Lot 2	26.75′	
Lot 3	26.50'	
Lot 4	26.25'	

Note: The elevation datum used is based on the following described bench mark:

USC & GS Standard Brass Disk Located in Sidewalk Adjacent to Fish Game Building near Southwest Corner of Intersection Railroad Avenue and Breakwater Avenue. Elevation 40.40 Above M.L.L.W.

(Ord. 634 (part), 1988).

18.33.130 - Site plan review.

- A. Prior to the issuance of a building for construction within the waterfront industrial district, the planning commission shall approve the development plan for the project. The site plan review shall be conducted in accordance with Chapter 18.42 of this code.
- B. The exterior siding and roof shall be finished in earthtone colors.

(Ord. 634 (part), 1988).



SEALED PROPOSAL FORM

All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 4A, Block 5, North Fill Development Park Addition No. 2. See attached map.

Name of Pro	oposer:	CORE	6 + Ex	A LOFORTO
Name of Or	ganization:	NE	SRKA	ENTORPRISES.
Address:	Box	865		Phone #: 424 - 5585
	COR	AVOG	99574	Email: 10fortegreg @GM4IR

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 4A, Block 5, North Fill Development Park Addition No. 2 is **<u>\$48,000.00</u>**. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$ 48,500,00

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

Greg & Eva LoForte Box 865 Cordova, Alaska 99574 November 17, 2014

City of Cordova Planning Department Re: Lot 4A Block 5 North Fill

- A. We propose to re-plat lots 4A & 4B to its original configuration which would eliminate the present condition of two sub-standard lots.
- B. We then plan to construct a metal sided building which would be very similar to the one on our existing property, 5/12 pitch roof, Beige siding, Red roof, 16' doors and two or three man doors.
- C. We propose to lease/rent this building out to a business requiring such a structure. During the past 14 years we have had numerous requests to rent our existing building which we have done from time to time. (Inside heated storage after Copper River Seafood's warehouse caved in, active net loft, rented out to local craftsman for fiberglass work, aluminum welding, installation of flush decks, vessel re-wiring, etc.) We believe that these requests have shown us that there is a definite need for a dedicated facility that would serve the Marine industry.
- D. The proposed building would be 40' by 50' which gives us 2000 sq. ft. of floor space. The estimated cost would be \$130,000.00. There is possibility that a larger structure may be constructed. We would adhere to all of the required set-backs before considering this second option.
- E. Just a little background on terms: the City originally leased lot 4B to me for three years with the stipulation that I complete the proposed development plan within this time frame. This requirement was met one year ahead of schedule. At that time 1/2 of the lease price was applied to the cost of the property. We realize that times have changed so we would like to propose these payment options:

- 1) We would pay \$48,500.00 to the city upon acceptance of this offer. The costs for re-platting would be at our expense. The City would be required to clean up the lot.
- 2) We would put 25% of the purchased price down and lease the property for three years with the stipulation that the project is completed within this time frame. This arrangement would only work for us if we were able to start work this next spring. I consider 2015 to be critical for ground work.

Thank you for considering our proposal and we look forward to hearing from you.

Sincerely,

Aug To Forto Greg LoForte



⁷² of 183


(20)



NOTE Z-15' DOORS 5437 1 20' DOORS 5437

. <u>ک</u>ه

73 of 183



Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		

Cit	Y_OF_CORD(DVA	
	SEALED PRO		RECEIVED
Property: Lo	s must be received by the Planning Depa t 4A, Block 5, North Fill Development Par	k Addition No. 2. See attached	
Name of Prop			
Address:	P.O. Box 1564 Cordava, AK	Phone #:24	-5356
	Cordova, AK	Email:	
	99574		

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 4A, Block 5, North Fill Development Park Addition No. 2 is **<u>\$48,000.00</u>**. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$ 54,000

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

TO:City of Cordova – P & ZFROM:Becky ChapekDATE:November 30, 2014RE:Lot 4A, Block 5, North Fill

This lot would be purchased to facilitate the opening of a full service small boat repair shop. It will be open year round and will offer clients a warm, dry & pleasant place to do boat repair. There will be 4 bays with designated use attached to each unit i.e. - fiberglass work & painting - mechanical rebuilds – interior cabin & deck upgrades & general maintenance.

The building is approximately 3840 square feet with a 45' X 80' footprint. It will be an iron frame, steel clad building with a heated slab. An estimated cost is \$342,500 for the framework, slab and building with interior upgrades and equipment adding an additional \$287,500.

Preparation for the lot would be completed in 2015 so the foundation work could be poured before winter. In the spring of 2016, the building would be raised on the heated slab. Target date for opening is June 2016.

As a result of opening this business, Cordova's fishermen will have an affordable, healthy place to do boat work. Having "survived" the deplorable options here for trying to do inside boat work especially during the winter, I can tell you this building will be used year round by people overjoyed by the existence of such a great option. It will provide year round employment for skilled craftsmen who in the past could not find a place to work. It's also a great option for fishermen who cannot justify their own private shop, but need a place to work on their projects.

Although the result of this project will produce jobs & sales tax revenue that will benefit the City, I believe part of the worth in this proposal is intangible. Building something like this recognizes the need to have services that support the fleet. Allowing me to build this will enhance the City's image as being supportive of the fishing industry and recognizes Cordova's heritage as the base for area E fisheries. I believe it will prove to be a very valuable & much appreciated asset to our community.

ATTACHMENT C



Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		



SEALED PROPOSAL FORM

All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 4A, Block 5, North Fill Development Park Addition No. 2. See attached map.

Name of Proposer:		Moe Zamarron	
		Native Village of Eyak	
Address:	PO Box 13	388	Phone #: 907-424-7738
	Cordova,	AK 99574	Email: _moe.zamarron@eyak-nsn.gov

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 4A, Block 5, North Fill Development Park Addition No. 2 is <u>\$48,000.00</u>. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$_48,000

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

Lot 4A, Block 5, North Fill Development Park Addition No. 2, City of Cordova, Alaska. Currently known as 'The City's Impound Lot'

- 1. The Native Village of Eyak (NVE) proposes to develop the above referenced parcel into a service facility providing an assortment of general repair, maintenance and upgrade tasks to the marine and land transportation industries. To address the growing needs of its expanding fleet of vessels and work vehicles it is necessary for NVE to make plans for a new facility that would adequately support in-house operations. While some amenities would be limited in use to NVE others would be made available commercially. Equipment has been secured that enables NVE to perform shrink-wrapping of vessels and equipment, perform tire repair for large trucks and heavy equipment and to provide general welding work. These services would be available to the public from this facility along with the rental of specialized equipment, with certain restrictions. Additionally, room would be made available for the storage of small vessels, equipment and supplies for NVE programs.
- 2. Taking final design criteria and code restrictions into account, NVE proposes to set the area of the building at the maximum allowed for the lot. Once the design team has considered all pertinent information a final footprint can be presented but initially this proposal shows a 60' x 90' building for an area of 5,400 square feet. Drainage, parking space counts, snow handling and setbacks all will have bearing on the building layout and may alter the final square footage of development.
- 3. See attachment 'A' for required sketch of proposed development.
- 4. Benefit of proposed development to the community. NVE operates a number of programs that bring direct benefit to the tribal members in the area and to the community of Cordova at large. Through the transportation, natural resources, wellness and housing departments NVE channels outside funding to Cordova that promotes health, affordable utilities and increased standards of living. The ability of NVE to house, maintain and operate equipment related to these programs offers two primary benefits for continued program development. First, this facility provides the means to keep program equipment functional, efficient and ready for use. This demonstrates to funders a level of competence and responsibility on the part of NVE in following through with the requirements of programs as expansion occurs. Secondly, the new facility provides potential funders with an accurate picture of NVE's ability to build capacity through preparation and partnership development. Through this facility NVE will provide services that are not otherwise found in Cordova and do so at cost which reinforces local economic wellbeing and promotes cooperation between organizations.
- 5. The dollar value of the proposed development is estimated at \$600,000.
- 6. The proposed timeline for development is to have an initial design ready by the 1st quarter of 2016 and have construction start in 2017.





Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		



SEALED PROPOSAL FORM

All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 4A, Block 5, North Fill Development Park Addition No. 2. See attached map.

Name of Pr	oposer:	Paul and Li	nda Kelly
Name of Or	rganization:	Bayside St	TOrage
Address:	350	Jim Poor Ave	Phone #: 907-424-3109
	P.O.	Box 265	Email: akkelly @ ctcak. net
	Cordo	Na AK 99574	5

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 4A, Block 5, North Fill Development Park Addition No. 2 is <u>\$48,000.00</u>. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$ 50, 400 .00

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

84 of 183

BAYSIDE STORAGE

Paul and Linda Kelly 350 Jim Poor Ave Box 265 Cordova, AK 99574

November 30, 2014

City of Cordova Planning Department C/O Proposals P.O. Box 1210 Cordova, AK 99574

RE: Sealed Proposal for Lot 4A, Block 5, North Fill Development

Additional Information:

- 1. Type of business-Dry storage and small business operating space.
- 2. Proposed square footage: Approximately 2456 sq ft per floor
- 3. See provided sketch
- 4. Benefit to Community: Provides needed dry storage space, and business operating space for fishing industry and all community members. Approximately \$6000/year in sales tax plus \$6700 property tax. Bayside Storage employees 5..
- 5. Value of improvements: \$450,000.00
- 6. Proposed timeline for development: 0-3 years

ATTACHMENT C





Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		



SEALED PROPOSAL FORM

All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 4A, Block 5, North Fill Development Park Addition No. 2. See attached map.

		KATRINA HOFFMA	1N	
		PRINCE WILLIAM SOUND SCIENCE CENT		ER
Address:	300 BR	EAKWATER AVE,	Phone #: 907 424 5800 ×	225
	PO BOX	705	Email: Khoffman@pwssc.org	3
	CORDON	A, AK 99574		

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 4A, Block 5, North Fill Development Park Addition No. 2 is <u>\$48,000.00</u>. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$ 70,000.00

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

PWSSC Proposal: Lot 4A Block 5

Property: Lot 4A, Block 5, North Fill Development Park

Name of Proposer: Katrina Hoffman Name of Organization: Prince William Sound Science Center Address: 300 Breakwater Avenue, Cordova, AK 99574 Phone: 907-424-5800 x225 Email: khoffman@pwssc.org

Additional Information Required:

1. Describe the type of business you're proposing to develop.

This site will be developed as a portion of the distributed campus of a well-known research and education institution, the Prince William Sound Science Center. The building developed on this site will provide:

--shop space for marine equipment construction, repair, and dismantling;

--warehousing for equipment and supply storage;

--marine oriented staging for research activities

--haulout and storage area for the multiple vessels owned by the organization, as dictated by vessel maintenance and storage needs

--bunkhouse space for employees and professionals with responsibility for using, constructing, repairing, dismantling, and/or organizing supplies and equipment of the business

2. What is the proposed square footage of the development?

The proposed square footage of the development is 2,400 square feet per floor at two stories for a total of 4,800 square feet. The site development plan also includes a lean-to structure that will provide covered storage outside the building. The lean-to has a 600 square foot footprint.

The maximum height shall not exceed that dictated by Uniform Building Code.

Off-street parking and loading is provided for as designated in the site plan.

Provide a sketch, to scale, of the proposed development in relationship to the lot.

See Attachment C.

4. What is the benefit of the proposed development to the community?

The benefits of the proposed development to the community are multiple. It will support an organization that has between 20 (year round) to 30 (high season) employees on staff at any given time of year. It will allow for the addition of an employee at an operations manager level. Construction of the facility will employ

PWSSC Proposal: Lot 4A Block 5

local laborers and use materials from local vendors, generating sales tax revenue through direct purchases. Seasonal employees who stay in the bunk space will be within walking distance of the downtown core and will purchase goods and services in the community, generating sales taxes as well. Increased access to space for constructing, maintaining, and storing research equipment will attract research collaborations with individuals from organizations outside of Cordova. These collaborations will generate additional visitors to the community.

The importance to the community is high. These facilities are critical to the ability of PWSSC to carry out its water dependent and water related work, with an annual budget of \$5,000,000 and over \$100,000 per month in local payroll. Further, these facilities will enable PWSSC to increase the value of the annual work pursued and completed, enabling the hiring of one or more additional permanent staff and drawing multiple visitors from collaborating institutions to Cordova for shorter periods of time.

The building will be designed to represent the aesthetic of a classic fishing village cannery building. External trim will give it charm. A functional yet decorative balcony off the second floor will be constructed of handsome decking materials and will enable the display of planters that permit seasonal landscaping enhancements.

The center-peak roof of the building will allow snow to shed to both sides of the building. There is ample space purposefully left available for the movement and storage of snow on-site.

5. What is the value of the proposed improvements (in dollars)?

The value of the proposed improvements is \$300,000.

6. What is your proposed timeline for development?

The proposed timeline for building completion is 12 months. Within 18 months, at least one new permanent staff member will be hired. Within 24 months, relationships will be established with partners that will draw collaborators to Cordova for research and education purposes.

ATTACHMENT C





Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		

Memorandum

To:	Planning Commission
From:	Planning Staff
Date:	12/4/14
Re:	Review of Proposals for Lot 2, Block 7, North Fill Development Park

PART I – GENERAL INFORMATION

Requested Actions:	Review Prop	osals and give a recommendation to City Council	
Legal Description:	Lot 2, Block	7, North Fill Development Park	
Parcel Number:	02-060-136		
Zoning:	Waterfront In	ndustrial District	
Lot Area:	11,534 sq. ft.		
Attachments:	Proposal Pac	ket (The packet distributed to potential proposers)	
	Proposals:	Mobile Grid Trailers, Inc.	
		Trident Seafoods Corp.	
		Native Village of Eyak	
		Prince William Sound Science Center	

The public notice period for this property disposal began Oct. 30th and ended Dec. 1st at 10 AM. The City received four proposals for the property. This lot has been leased to Mobile Grid Trailers, Inc. since 2003. Prior to the most recent lease term, City Council expressed an interest in putting this lot out for proposals. The last lease term, which expired October 19, 2014 and is now in hold-over, was for a period of 18 months in order to give Mobile Grid enough time to plan for the anticipated disposal process.

The proposed price from each proposal is as follows (minimum bid = 65,000):

Mobile Grid Trailers, Inc.	\$67,500
Trident Seafoods Corp.	\$90,000
Native Village of Eyak	\$65,000
Prince William Sound Science Center	\$100,000

PART II – APPLICABLE CRITERIA

Chapter 5.22 - REVENUE AND FINANCE - DISPOSAL OF CITY REAL PROPERTY - Methods of

disposal for fair market value.

D. A request for proposals to lease or purchase city real property shall specify the criteria upon which proposals shall be evaluated, which may include without limitation the type of proposed development and its benefit to the community, the qualifications and organization of the proposer, the value of the proposed improvements to the real property, and the required rent or purchase price. All proposals submitted in response to a request for proposals shall be reviewed by the planning commission, which shall recommend a proposal to the city council for award.

PART III - SUGGESTED MOTION

"I move that the Planning Commission recommend City Council approve the proposal from to purchase Lot 2, Block 7, North Fill Development Park."

Review of Proposals for Lot 2, Block 7, North Fill Development Park Page 1 of 1

93 of 183



Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 2, Block 7, North Fill Development Park is <u>\$65,000.00</u>. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$_____

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

Additional Information Required (please attach separately with this proposal form):

- 1. Describe the type of business you're proposing to develop.
- 2. What is the proposed square footage of the development?
- 3. Provide a sketch, to scale, of the proposed development in relationship to the lot. (Attachment C)
- 4. What is the benefit of the proposed development to the community?
- 5. What is the value of the proposed improvements (in dollars)?
- 6. What is your proposed timeline for development?

Included for your convenience:

Attachment A: Criteria used when evaluating each submitted proposal.Attachment B: A location map showing the subject property.Attachment C: The property parcel with measurements.Attachment D: Cordova Municipal Code - Waterfront Industrial District

Please mail proposals to:	City of Cordova		
	Planning Department C/O Proposals		
	P.O. Box 1210		
	Cordova, Alaska 99574		

<u>Or email proposals to planning2@cityofcordova.net.</u> The email subject line shall be "Proposal for Lot 2, Block 7," and the proposal shall be attached to the email as a PDF file.

Or deliver your proposal to the front desk at City Hall.

For questions or more information about the land disposal process, contact the City Planning Department at 424-6220, planning2@cityofcordova.net, or stop by in person.

Proposals received after December 1st, 2014 at 10 AM will not be considered.

Each proposal will be evaluated on the criteria in the table below. Each criteria will be scored from 1-10. The multiplier will then be applied to the scores to determine a final score.

Final Land Disposal Evaluation Criteria

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		









Chapter 18.33 - WATERFRONT INDUSTRIAL DISTRICT

Sections:

18.33.010 - Purpose.

The following statement of intent and use regulations shall apply in the WI district:

The waterfront Industrial district is intended to be applied to land with direct access or close proximity to navigable tidal waters within the city. Uses within the waterfront industrial district are intended to be marine-dependent or marine-oriented, and primarily those uses which are particularly related to location or commercial enterprises that derive an economic benefit from a waterfront location.

(Ord. 634 (part), 1988).

18.33.020 - Permitted principal uses and structures.

The following are the permitted principal uses and structures in the waterfront industrial district:

- A. Marine sales;
- B. Open wet moorage;
- C. Covered wet moorage;
- D. Passenger staging facility;
- E. Haulout facilities;
- F. Marine construction, repair and dismantling;
- G. Cargo terminal;
- H. Cargo handling and marine-oriented staging area;
- I. Fish and seafood processing;
- J. Warehousing and wholesaling;
- K. Open storage for marine-related facilities;
- L. Fuel storage and sales.

(Ord. 634 (part), 1988).

18.33.030 - Permitted accessory uses and structures.

- A. Bunkhouses in conjunction with permitted principal uses;
- B. Residential dwelling for watchman or caretaker employed on the premises, or owner-operator and members of his family, in conjunction with permitted principal uses;
- C. Retail business when accessory to a permitted principal use.

(Ord. 634 (part), 1988).

18.33.040 - Conditional uses and structures.

Subject to the requirements of the conditional use standards and procedures of this title, the following uses and structures may be permitted in the WI district:

- A. Log storage and rafting;
- B. Timber and mining manufacturing.

100 of 183

(Ord. 634 (part), 1988).

18.33.050 - Prohibited uses and structures.

Any use or structure not of a character as indicated under permitted uses, accessory uses, or conditional uses.

(Ord. 634 (part), 1988).

18.33.060 - Setbacks.

- A. Minimum Setbacks.
 - 1. Front yard-Twenty feet.
 - 2. Side yard and rear yard: subject to Uniform Building Code regarding fire walls and separation of buildings.

(Ord. 634 (part), 1988).

18.33.070 - Lot coverage.

A. Maximum lot coverage by all buildings and structures as regulated by the Uniform Building Code.

(Ord. 634 (part), 1988).

18.33.080 - Height.

A. Maximum height of buildings and structures: subject to Uniform Building Code regarding building heights.

(Ord. 634 (part), 1988).

- 18.33.090 Off-street parking and loading.
- A. Off- street Parking and Loading. The requirements for off-street parking and loading in the waterfront industrial district shall be as set forth in Chapter 18.48 of this code.

(Ord. 634 (part), 1988).

- 18.33.100 Minimum lot requirements.
- A. Minimum Lot Requirements.
 - 1. Lot width: 100 feet;
 - 2. Lot size: 10,000 feet.

(Ord. 634 (part), 1988).

18.33.110 - Signs.

A. Signs. Signs may be allowed in the waterfront industrial district subject to the supplementary district regulations, the Uniform Sign Code, as set forth in Chapter 18.44 of this code.

(Ord. 634 (part), 1988).

18.33.120 - Floor elevations.

A. Minimum Finished Floor Elevations. In the waterfront industrial district, the following minimum finished floor elevations for the ground floor shall be adhered to:

North Fill Development Park

Block 1			
Lot 1	27.00′		
Lot 2	26.50'		
Lot 3	27.25'		
Block 2			
Lot 4	27.25'		
Lot 1	26.50'		
Block 3			
Lot 2	26.25'		
Lot 1	26.50'		
Block 4			
Lot 1	27.25'		
Lot 2	27.25'		
Lot 3	27.25'		
Lot 4	27.25'		
Lot 5	26.25'		
Block 5			
Lot 1	27.25′		
Lot 2	27.25'		
Block 6			

Lot 2	26.50'		
Lot 1	26.25'		
Block 7			
Lot 2	26.50'		
Lot 3	26.25'		
Lot 1	26.75'		
Lot 3	27.25'		
Block 8			
Lot 1	27.00'		
Lot 2	26.75′		
Lot 3	26.50'		
Lot 4	26.25'		

Note: The elevation datum used is based on the following described bench mark:

USC & GS Standard Brass Disk Located in Sidewalk Adjacent to Fish Game Building near Southwest Corner of Intersection Railroad Avenue and Breakwater Avenue. Elevation 40.40 Above M.L.L.W.

(Ord. 634 (part), 1988).

18.33.130 - Site plan review.

- A. Prior to the issuance of a building for construction within the waterfront industrial district, the planning commission shall approve the development plan for the project. The site plan review shall be conducted in accordance with Chapter 18.42 of this code.
- B. The exterior siding and roof shall be finished in earthtone colors.

(Ord. 634 (part), 1988).



SEALED PROPOSAL FORM

All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 2, Block 7, North Fill Development Park. See attached map.

Name of Proposer: _____ Richard and Osa Schultz_____

Name of Organization: _dba: Mobile Grid Trailers, Inc.

Address: PO Box 1291 - 109 Council Ave. - Cordova, AK 99574

Phone #: 907-253-5269 Osa's cell, 907-253-3146 Ric's cell

Email: <u>AdoreAlaska@gmail.com</u>

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 2, Block 7, North Fill Development Park is <u>\$65,000.00</u>. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$ 67,500

MOBILE GRID TRAILERS, INC. Owners/Operators: Richard an

s: Richard and Osa Schultz PO Box 1291 Cordova, AK 99574

Mobile Grid Trailers began doing business in 1985 providing boat trailering services and building trailers for the Cordova fishing fleet. Within a few years we began providing repair and towing services to the general Cordova public as well. In 1989 we moved into a unit at Bayside Storage. In April of 2000, we rented Lot 2 of Block 7 from the City of Cordova for staging our trailers and equipment. It has always been our intent to purchase this property, however, it has only recently become practical for us to transition our operations into a structure on the property.

Our current operations include:

- Trailering Boats for Repairs by owner or to local shops
- Boat Blocking for Seasonal Layup or Hull Repairs
- Boat and Utility Trailer Manufacturing, Sales and Repairs
- Wheel Bearing Repair and Trailer tire Mounting
- Retail Sales of Trailer Axles, Tires, Rims and Suspension Parts
- Loading/Offloading vehicles, equipment and boats on/off ferry
- Automotive Recovery and Towing
- Automotive Disposal preparation
- Equipment Rental Trailers, Scaffolding, Blocking
- Equipment Moving nets, engines, etc.
- Light Salvage Repurposing of usable metal, trailer and auto parts
- Equipment Storage



Current Business Activity and Revenues

Our active Customer List totals 344 - being clients we have provided services for or sold products to in the last 4 years. Some customers we helped once, others multiple times. Invoices for boat tows usually include a Pull & Launch and often sales invoices include a combination of services - boat tows as well as trailer repairs & parts.

	Boat/Trailer	Truck or		
YEAR	Tows	Car Tows	Repairs	Parts
2011	138	16	18	20
2012	139	29	27	27
2013	122	35	28	33
2014	132	24	23	26

This chart shows a relative breakdown of our different activities tabulated from those invoices.

Our current operations have generated these revenues and the resulting Sales Taxes over the last 4 years.

				TOTAL	
YEAR	SERVICES	PARTS	TRAILERS	SALES	SALES TAX
2011	45,240	3,925	0	\$49,265	\$2,595
2012	38,591	9,909	2,000	\$50,500	\$2,666
2013	39,665	6,471	5,825	\$51,961	\$2,358
2014	53,850	7,931	0	\$61,781	\$2,674

Over the 14 years that we have leased this city lot it has been essential for the operation of our business. It provides space for staging and storage of our trailer fleet and equipment. We reduced the size of our trailer fleet over the last 6 years as more fishermen purchased their own trailers. We rented this extra space, approximately 1/3 of the total area, to our customers for storage of their boats, trailers, and equipment. This fall we turned away those customers in preparation for this project.

As the Cordova fleet has increased their ownership of boat trailers, the South Fill has become less available for parking and repairs. In response the City has made useful improvements to the trailer staging area on the North Fill. We have increasingly used the North Ramp since the addition of the floating dock, and even more this last season with water & electricity available in that area. With our current shop location at Bayside Storage and our equipment staged on the adjacent lot, Mobile Grid has been perfectly located to provide services at both ramps. This proximity has allowed us to support the City's intent to increase usage of the North Ramp.

Presently, we are the only commercial marine service business located on the North Fill.

Proposed Building – Size, Use, and Value

Our plan is to construct a warehouse 62' x 70' with a square footage of 4,340. It would be divided into 2 large bays and a group of rental lockers – 4 @ 300 sq. ft. and 2 @ 180 sq. ft. Mobile Grid will utilize about 1600 sq. ft. of the warehouse leaving 2740 sq. ft. of its 1st floor available for lease. The rental income at \$1 per sq. ft. would average \$2,700/ month and generate an additional \$1973 per year in sales tax.

We are also looking to have it engineered to eventually add a second floor loft that could be made available for net storage and gear hanging. As commercial fishers for over 30 years, we know that there is great demand for indoor space for these uses.

We have been communicating with R & M Steel Co. to review warehouse package options. There are a reputable company that has provided engineered building packages for construction in Cordova for decades; they are very familiar with the snow and wind requirements of our area.

We estimate the improvements to the property for this development to be valued at approximately \$275,000. The substantial increase in the property taxes on the lot would generate additional revenues for the city.

Proposed Timeline

We have already begun to reduce the amount of superfluous equipment and materials on the lot; multiple vehicles and a boat damaged by the 2012 snow fall, and items previously being kept for salvage or recycle opportunities, have been consolidated or disposed of. We will continue this process throughout the winter as weather allows.

Spring 2015

We presently have financing available and are prepared to purchase the property in the amount of \$67,500, plus the required fees as per city code, within 90 days of the City presenting us a sale contract.

Once we are the titled property owners, we will commence the development process, applying for the required permits and preparing the lot for the laying out of a structure. The lot requires a substantial amount of fill to bring it up to a buildable grade, and it will require reasonable amount of time to be worked and settled.

107 of 183

Summer 2015

Once our building plans have been approved, installation of utilities and site preparation will follow as crews are available and weather permits.

While we will be commercial fishing as well as continuing to operate our other businesses at this time, we will make every effort to move the project forward and keep the property in a productive mode.

Ideally, we would like to start construction by the end of the summer, however, with many unknowns and multiple factors influencing the schedule, it is possible that phase will not happen until Spring of 2016.

Benefits to the Community

Presently, our company provides important services to the marine industry as well as to the general public by offering towing of boats, trucks, cars, and equipment. Cordova's rugged environment takes its toll on axles and tires, keeping them in repair is critical for their safe operation. We deal with many failed trailers during the season and get them back to work for their owners.

This location also makes it easy for us to support the Harbor Dept. in encouraging boat owners to use the North Ramp facility, reducing the trailer traffic around the City Harbor ramp. The approval of this project will allow our business to grow and offer more products to our customers. Once our company sets up business in the new warehouse we expect to be able to hire an additional employee to increase our hours of operation, our shop productivity, and retail sales.

The North Fill was originally created for precisely this type of development. Lot 2 of Block 7 is an **essential** component to the future of our business. There is virtually no alternative property in the area to relocate to – losing it would force us to liquidate the majority of our equipment and assets. This would gravely reduce the services we can provide to our customers, undermine our ability to meet our overhead costs, and could ultimately result in the closure of our business.

We respectfully request your careful consideration of our proposal. Please advise us of all scheduled meeting dates that we could be available to comment on our behalf and we invite you to contact us with any questions regarding this proposal.

Thank you,

Richard & Osa Schultz Mobile Grid Trailers, Inc.

108 of 183
ATTACHMENT C



Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		



All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 2, Block 7, North Fill Development Park. See attached map.

Name of Proposer:	Kick Ismacson
Name of Organizat	on: Trident Sentoods Corp.
	303 SHILShole AVE NW Phone #: 206. 783-3818 PAHLE WA 98107 Email: (Isaacson@fridentscafoods.com

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 2, Block 7, North Fill Development Park is <u>\$65,000.00</u>. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price S 90,000
a consecutation of the second se

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22,100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

ł

111 of 183



TRIDENT SEAFOODS CORPORATION

5303 Shilshole Ave. NW, Seattle, WA 98107-4000 • (206) 783-3818• Fax: (206) 781-7604

December 1, 2014

RE: Property: Lot 2, Block 7, North Fill Development Park.

To City of Cordova Planning Department,

Trident Seafoods is proposing to develop Lot 2, Block 7, North Fill Development Park into a 3 story, 144 person bunkhouse that will be approximately 15,000 square feet. The design will be similar to the bunkhouse that we built in 2013. With the increase in bunk space we will be able to increase our daily production by 25% and give us the ability bring more fish and taxes into the City of Cordova. We are budgeting \$2,000,000 for this project, not including the price of purchase for the property. We are looking at a completion in the spring of 2016.

Please see attached drawing of proposed building.

Please contact me if you have any further questions.

Thank you,

Rick Isaacson Trident Seafoods Corporation PWS Operations Manager Direct: 206-297-5663 Email: <u>risaacson@tridentseafoods.com</u>

A	las	ka
A	las	ka

The Amorican Connection

Washington

Akutan · Anchorage · Chignik · Clarks Point · Dillingham · Dutch Harbor · Ketchikan · Kodlak Naknek · Sand Point · South Naknek · St. Paul

Anacortes • Bellingham • Fife Seattle • Tacoma

Newport, OR Uclueiet, B.C.

112 of 183



Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		



SEALED PROPOSAL FORM

All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 2, Block 7, North Fill Development Park. See attached map.

Name of Proposer:		Moe Zamarron	
Name of Or	ganization:	Native Village of Eyak	
Address: PO Box 13 Cordova, A		1388	Phone #: 907-424-7738
		AK 99574	Email: moe.zamarron@eyak-nsn.gov

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 2, Block 7, North Fill Development Park is <u>\$65,000.00</u>. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price § 65,000

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

1 115 of 183

Lot 2, Block 7, North Fill Development Park, City of Cordova, Alaska. Current location of Mobile Grid

- 1. The Native Village of Eyak (NVE) proposes to develop the above referenced parcel into a combination marine and land based transportation service facility providing an assortment of general repair, maintenance and upgrade tasks. To address the growing needs of its expanding fleet of vessels and work vehicles it is necessary for NVE to make plans for a new facility that would adequately support in-house operations. While some amenities would be limited in use to NVE while others would be made available commercially. Equipment has been secured that enables NVE to perform shrink-wrapping of vessels and equipment, perform tire repair for large trucks and heavy equipment and to provide general welding work. These services would be available to the public from this facility along with the rental of specialized equipment, with certain restrictions. Additionally, room would be made available for the storage of small vessels, equipment and supplies but only for NVE programs.
- 2. Taking final design criteria and code restrictions into account NVE proposes to set the area of the building at the maximum allowed for the lot. Once the design team has considered all pertinent information a final footprint can be presented but initially this proposal shows a 60' x 115' building for an area of 6,900 square feet. Drainage, parking space counts, snow handling and setbacks all will have bearing on the building layout and may alter the proposed square footage of development.
- 3. See attachment 'A' for required sketch of proposed development.
- 4. Benefit of proposed development to the community. NVE operates a number of programs that bring direct benefit to the tribal members in the area and to the community of Cordova at large. Through the transportation, natural resources, wellness and housing departments NVE channels outside funding to Cordova that promotes health, affordable utilities and increased standards of living. The ability of NVE to house, maintain and operate equipment related to these programs offers two primary benefits for continued program development. First, this facility provides the means to keep program equipment functional, efficient and ready for use. This demonstrates to funders a level of competence and responsibility on the part of NVE in following through with the requirements of program expansion. Secondly, the new facility provides potential funders with an accurate picture of NVE's ability to build capacity through preparation and partnership development. This facility will provide services that are not currently in Cordova which reinforces local economic wellbeing and promotes cooperation between organizations. Future programs will receive more favorable consideration when local interests are addressed collectively.
- 5. The dollar value of the proposed development is estimated at \$759,000.
- 6. The proposed timeline for development is to have an initial design ready by the 1st quarter of 2016 and have construction start in 2017.





LOT 2, BLOCK 7



FRONT ELE∨ATION

Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		



SEALED PROPOSAL FORM

All proposals must be received by the Planning Department by December 1st, 2014 at 10 AM.

Property: Lot 2, Block 7, North Fill Development Park. See attached map.

Name of Proposer: Name of Organization:		KATRINA HOFFM	AN
		PRINCE WILLIAM S	OUND SCIENCE CENTER
Address:	PO BOX 705		Phone #: 907.424.5800 × 225
			Email: khoffman@pwssa.org
	CORDOVI	4, AK 99574	

Note: All submitted proposals for this property will be reviewed by the Planning Commission using the attached criteria. The Planning Commission will then recommend a proposal to City Council for final review and acceptance.

The City Council reserves the right to reject any proposal, part of any proposal, or all proposals. The City Council may accept any proposal deemed most advantageous to the City of Cordova.

The chosen proposal will be subject to a Site Plan Review conducted in accordance with Chapter 18.42 of the Cordova Municipal Code. Prior to the issuance of a Building Permit, the City Council must approve the site plan for the project and the State Fire Marshal must approve the plan review for Fire and Life Safety.

The fair market value for Lot 2, Block 7, North Fill Development Park is **<u>\$65,000.00</u>**. The fair market value has been determined by a qualified licensed appraiser and will be the **minimum** price that will be accepted for the property. If the successful proposal amount is greater than the minimum price, that shall be the amount paid for the property.

All organizations that submit proposals will be required to meet the appropriate criteria within Cordova Municipal Code Section 5.22. A link to the City Code is available at www.cityofcordova.net.

Proposed Price \$ 100,000.00

The applicant shall also be responsible for all fees and costs the City incurred to third-parties in the transaction, including without limitation costs of appraisal, attorney's fees and costs, surveying and platting fees and costs, closing costs and escrow fees as per City of Cordova Municipal Code section 5.22.100.

Please review the attached section of Code for the permitted uses within the Waterfront Industrial District.

PWSSC Lot 2, Block 7 Development Proposal

Property: Lot 2, Block 7, North Fill Development Park

Name of Proposer: Katrina Hoffman Name of Organization: Prince William Sound Science Center Address: 300 Breakwater Avenue, PO Box 705, Cordova, AK 99574 Phone: 907-424-5800 x225 Email: khoffman@pwssc.org

Additional Information Required:

1. Describe the type of business you're proposing to develop.

This site will be developed as a portion of the distributed campus of a well-known research and education institution, the Prince William Sound Science Center. The building developed on this site will provide:

--shop space for marine equipment construction, repair, and dismantling;

--warehousing for equipment and supply storage;

--marine oriented staging for research activities

--haulout and storage area for the multiple vessels owned by the organization, as dictated by vessel maintenance and storage needs

--bunkhouse space for employees and professionals with responsibility for using, constructing, repairing, dismantling, and/or organizing supplies and equipment of the business

--Yard space and lean-to space will allow for the storage and maintenance of rolling stock, vessels, and deployable equipment.

2. What is the proposed square footage of the development?

The proposed square footage of the development is 2,400 square feet per floor at two stories for a total of 4,800 square feet in an enclosed building. The site development plan also includes a lean-to structure that will provide covered storage outside the building. The lean-to has a 600 square foot footprint. There is additional space allocated in the site plan for haulout and storage of the vessels owned by PWSSC, as dictated by vessel maintenance needs.

The maximum height shall not exceed that dictated by Uniform Building Code.

Off-street parking and loading is provided for as designated in the site plan.

3. Provide a sketch, to scale, of the proposed development in relationship to the lot.

See Attachment C.

PWSSC Lot 2, Block 7 Development Proposal

4. What is the benefit of the proposed development to the community?

The benefits of the proposed development to the community are multiple. It will support an organization that has between 20 (year round) to 30 (high season) employees on staff at any given time of year. It will allow for the addition of an employee at an operations manager level. Construction of the facility will employ local laborers and use materials from local vendors, generating sales tax revenue through direct purchases. Seasonal employees who stay in the bunk space will be within walking distance of the downtown core and will purchase goods and services in the community, generating sales taxes as well. Increased access to space for constructing, maintaining, and storing research equipment will attract research collaborations with individuals from organizations outside of Cordova. These collaborations will generate additional visitors to the community.

The importance to the community is high. These facilities are critical to the ability of PWSSC to carry out its water dependent and water related work, with an annual budget of \$5,000,000 and over \$100,000 per month in local payroll. Further, these facilities will enable PWSSC to increase the value of the annual work pursued and completed, enabling the hiring of one or more additional permanent staff and drawing multiple visitors from collaborating institutions to Cordova for shorter periods of time.

The building will be designed to represent the aesthetic of a classic fishing village cannery building. External trim will give it charm. A functional yet decorative balcony off the second floor will be constructed of handsome decking materials and will enable the display of planters that permit seasonal landscaping enhancements.

The center-peak roof of the building will allow snow to shed to both sides of the building. There is ample space purposefully left available for the movement and storage of snow onsite.

5. What is the value of the proposed improvements (in dollars)?

The value of the proposed improvements is \$350,000.

6. What is your proposed timeline for development?

The proposed timeline for building completion is 12 months. Within 18 months, at least one new permanent staff member will be hired. Within 24 months, relationships will be established with partners that will draw collaborators to Cordova for research and education purposes.

ATTACHMENT C



Land Disposal Evaluation Criteria

Proposal:

Criteria	Multiplier	Proposal Rank 1-10	Subtotal for Proposal
Value of improvements	1.75		
Number of Employees	1		
Sales Tax Revenue	1		
Importance to Community	1.75		
5yr Business Plan/Timeline	0.75		
Enhanced Architectural Design	1.25		
Proposal Price	1		
Consistency with Comprehensive Plan	1.5		
Total	10		

Memorandum

To:	Planning Commission
From:	Planning Staff
Date:	12/4/14
Re:	Second Street Parking Recommendation to City Council

PART I – GENERAL INFORMATION

This memo was presented to the Planning Commission at the October 28th Regular Meeting in the Planner's Report. At the request of the commission, it has been edited to become an action item as a recommendation from the commission to City Council.

At the Planning Commission September 24th Work Session, staff was directed to investigate the parking on Second Street between Browning Avenue and Council Avenue. Staff have determined that the total length of curb dedicated to parking is approximately 320 feet (see Attachment A). Using the measurements provided in the City's Code (18.48.010 see Part II), there would be the following number of parking spaces for each condition:

Parallel Parking $(0^{\circ}) - 13$ spaces Angled Parking $(35^{\circ}) - 17$ spaces Angled Parking $(45^{\circ}) - 21$ spaces Angled Parking $(55^{\circ}) - 26$ spaces

The parking currently on Second Street appears to be generally 45°-55° from the curb, however the parking spaces are not delineated in the entire length of the street. The parallel parking scenario accounts for 23 feet, but this is probably more variable as there are no lines painted on the ground (ex.: Main Street is parallel parking, but individual spaces are not marked so as to provide the maximum number of parking spaces) and the length of larger vehicles reaches nearly 23 feet. The amount of spaces decreases fairly significantly as you change the angle of the parking.

In conclusion, a good rule of thumb is that angled parking at 55° provides two times the amount of parking spaces as parallel parking, however whether or not the spaces are marked on the ground likely plays a large role in the actual number of spaces used.

PART II - APPLICABLE CODE

<u>Chapter 10.04.010 VEHICLES AND TRAFFIC – GENERAL PROVISIONS – Emergency and experimental regulations.</u>

A. The traffic authority of the city is empowered to make regulations necessary to make effective the provisions of the traffic ordinances of this city and to make and enforce temporary or experimental regulations to cover emergencies or special conditions. No such temporary or experimental regulation shall remain in effect for more than ninety days.

Chapter 10.04.050 VEHICLES AND TRAFFIC - GENERAL PROVISIONS - Definitions.

In this title:

B. "Traffic authority" means the city manager or the city manager's designee.

Second Street Parking Recommendation to City Council Page 1 of 3

<u>Chapter 18.48.010 ZONING – OFF-STREET PARKING, LOADING AND UNLOADING – General</u> <u>regulations.</u>

 \overline{F} . Plans for the layout of off-street parking facilities shall be in accordance with the following minimum requirements:

Parking Pattern	Maneuvering Lane Width	Parking Space Width	Parking Space Length	Total Width of One Tier of Spaces Plus Maneuvering Lane	Total Width of Two Tiers of Spaces Plus Maneuvering Lane
0° (parallel parking)	12 ft.	8 ft.	23 ft.	20 ft.	28 ft.
30° to 53°	13 ft.	9 ft.	20 ft.	33 ft.	53 ft.
54° to 74°	18 ft.	9 ft.	21 ft.	39 ft.	60 ft.
75° to 90°	25 ft.	9 ft.	19 ft.	44 ft.	63 ft.

PART III - STAFF RECOMMENDATION

Following the last Regular Meeting, City staff met to go over different options for parking on Second Street. Staff attending the meeting included police chief, fire chief and public works. Many options were reviewed including P&Z's recommendation of moving towards all parallel parking for the entire West side of the street. Staff believes that the challenge at the intersection can be mitigated by less impactful measures. Staff would recommend the Planning Commission to consider recommending to City Council that the parking on the West side of Second Street be changed as follows:

- The first 50 feet of angled parking going South from Council Avenue will be parking for compact cars only (<17 ft), and will be delineated by paint on the asphalt and signage.

Staff decided on this recommendation because it does not decrease the number of parking spaces on Second Street, but will eliminate the issue of longer vehicles extending out into the intersection. It also has the least amount of impact on the business located on the corner. The first 15 feet of the curb will be "No Parking" and the next 50 feet will be compact only (17 feet or less) and have angled lines painted that will control the angle at which the vehicle is parked. Public safety has tried different lengths of cars and believes that a 17 foot cut off will be adequate when parked at the correct angle to allow traffic to turn into the lane without having to veer into the oncoming lane. This length includes small cars, trucks and SUVs but would not include full size, extended cab, or long beds trucks.

- Average car: 14'
- Small pickup truck: 18'
- Full pickup truck, SUV, or van: 20' or 22'

PART IV – RECOMMENDED MOTION

"I move the Planning Commission recommend to City Council that the parking on the West side of Second Street be changed as follows (select one option below or suggest other) :

- The first 50 feet of angled parking going South from Council Avenue will be parking for compact cars only (<17 ft), and will be delineated by paint on the asphalt and signage.
- The West side of Second Street will be parallel parking from Council to Browning Avenue.

Second Street Parking Recommendation to City Council Page 2 of 3

125 of 183

Attachment A



Second Street Parking Recommendation to City Council Page ${\bf 3}$ of ${\bf 3}$

Memorandum

To:Planning CommissionFrom:Planning StaffDate:12/4/14Re:Snow Load Discussion

PART I – GENERAL INFORMATION

The commission requested a discussion on the 150 lbs. per square foot ground snow load requirement. Staff prepared this memo to help provide background information and facilitate the discussion.

GROUND SNOW LOAD – The weight of snow on the ground. The 50-year mean recurrence of ground snow is used to determine the design roof snow load.

ROOF SNOW LOAD - Load induced by the weight of snow on the roof of the structure.

Links for additional information:

http://www.bgstructuralengineering.com/BGASCE7/BGASCE7008/index.htm

http://www.ce.udel.edu/courses/CIEG407/CIEG_407_Protected/Chapter%207%20Commentary.p df

http://www.civil.utah.edu/~cv5450/roofload/SNOWLOAD.htm good general information

http://www.ehow.com/how_6144596_calculate-roof-snow-loads.html how snow load is calculated

The Truss Company provided a quote showing the cost difference in trusses for 100 lbs. and 150 lbs. snow load. (Attachment F) This is for 40 X 60 shop, seismic D, wind load 100 and Condition C. I have contacted an engineer from Anchorage to provide a cost comparison of the engineering requirements between the snow loads. At the time the packet is being printed we have not received a report. If the report comes prior to the meeting we will email it to the commissioners and provide copies at the P&Z meeting.

Attachments: Attachment A: Excerpt from Minutes of 4/10/12 Planning Commission Regular Meeting Attachment B: Excerpt from Minutes of 5/8/12 Planning Commission Regular Meeting Attachment C: Resolution 12-03 Attachment D: Excerpt from Minutes of 5/14/12 City Council Special Meeting Attachment E: Ground Snow Load Analysis prepared by Steve "Hoots" Witsoe Attachment F: Cost Comparison for Trusses

PART II – BACKGROUND

4/10/12 – At the Planning Commission Regular Meeting, the commission had a discussion on the snow load requirements for Cordova. See attached minutes.

Snow Load Discussion Page 1 of 6

- 5/8/12 At the Planning Commission Regular Meeting, the commission had Steve "Hoots" Witsoe prepare a report and give a recommendation concerning snow load. The commission went on to pass Resolution 12-03 recommending the change in snow load to City Council. See attached minutes and resolution.
- 5/14/12 At the City Council Special Meeting, the council accepted the resolution from the Planning Commission. See attached minutes for the discussion.
- 6/20/12 At the City Council Regular Meeting, the council passed the first reading of Ordinance 1095, an ordinance increasing the ground snow load to 150 lbs. per square foot. The ordinance was passed in the consent calendar with no discussion.
- 7/5/12 At the City Council Regular Meeting, the council passed the second reading of the ordinance with no discussion.

PART III – APPLICABLE CODE

16.15.2305(d) LOCAL AMENDMENTS TO THE UNIFORM BUILDING CODE, 1985 EDITION – <u>Snow Loads.</u>

Delete the last sentence in the second paragraph and substitute the following: (i) The minimum basic design snow load shall be 100 pounds per square foot on the horizontal projection of the roof for building permits issued or required prior to September 1, 2012. (ii) The minimum basic design snow load shall be 150 pounds per square foot ground snow load for construction requiring or issued a building permit on or after September 1, 2012.

Attachment A: Excerpt from Minutes of 4/10/12 Regular Meeting

2.) Discussion on Snow Load

Reggiani ~ Well I asked that maybe we take a look at this after the recent event that we just went through, it seemed like in the community here was a lot of confusion on snow load and what it Code and why are buildings collapsing. I kind of looked into it and I looked at the table of Ground Snow Loads for Alaska communities. What stood out to me was that Cordova was at 100 psf, Yakutat is at 150 psf, Valdez is at 160 psf and Whittier is at 300 psf. I couldn't really figure out where that data actually come from and how old that table is. And I don't know if that matters or not but typically with historical datasets you'll update them periodically and I don't know what our ground load was this year compared to the historical average.

Josh Hallquist ~ That's what you're supposed to base it off of is a 50 year snow.

Reggiani ~ It looks like the Alaska Statues leave it up to the local municipality. Other than just picking a number I don't really know how to put some data behind it.

Pegau ~ We actually are collecting the data up on Ski Hill, there's a snow pillow that gives you snow water equivalents. It will tell you exactly how much water equivalent there was and from that you can figure out the pounds per square foot. Historically there hasn't been a measure other than height, but for the last five years they've been recording the snow depth at that elevation.

Reggiani ~ When do you think that data will be available?

Pegau ~ It's online, I always end up looking up Mt. Eyak SNOTEL.

Greenwood ~ Hoots and Kirsti are checking it regularly.

Srb ~ Tom, I have a question I'd just like to hang out there. With regards particularly to the Municipal buildings and such but is there a mechanism or way of developing a mechanism that kind of takes away the decision making process out of any one individuals processes with regards to making a determination that I need to have this shoveled or that shoveled. Some kind of way of calculating a real time snow load within the municipality that says; "within these parameters all municipal buildings will hire somebody to shovel the roofs."

Bailer ~ I think Dave (Reggiani) is kind of heading that direction aren't you?

Reggiani ~ We are, Council has asked me to start working on a Memorandum of Understanding between the City and the School District to talk about maintenance of all of the municipal buildings so that one party isn't waiting for another party or thinking that the other party is going to do something and the same thing the other way. But as far as actually getting some data and understanding that I think you could probably come up with some real good general rules from that. But going through all of this, I was impressed, just to get the discussion started I was just hoping for the table to be thrown into this but Faith and Sam did a wonderful job putting everything in there. I was looking and happy to find an importance factor thrown into it on page 64 and I think what we need to have from the City's side of things is some history and make sure that the importance factor was factored into the equation on these municipal buildings for sure. The higher the category the more important the facility is to the community.

Josh Hallquist ~ I would say by what I've seen here it would be safe to bump it up a little bit.

Srb ~ On our current building permits if someone comes in and says that they want to attach a shed style roof to the side of their house, is there any requirement for engineering?

Samantha Greenwood ~ We don't require engineering for in residential for anything.

After a lengthy discussion the Commission agreed to have the data from the SNOTEL site compiled and bring that information back for further dialogue.

Attachment B: Excerpt from Minutes of 5/8/12 Regular Meeting

1. Snow Load

Steve "Hoots" Witsoe ~ Okay, Snow Loads area what's used to determine how much load they can hold and what the roof needs to be built for. The Code book has a table and Cordova is at 100 pounds per square foot, the interesting thing about that is Yakutat is at 150 psf, Valdez is at 160 psf and Whittier is at 300 pounds per square foot. So the purpose of what I was doing was use extreme value statistical analysis to determine what our snow load really is. So, what I did is I went through weather data and we don't have great weather data, but we do have 26 years from CEC's Orca Power Plant and then we have a bunch of data from the Airport. Originally I had more information from the Power Plant and the Power Plant typically represents the town better than the Airport. Keep in mind that we get much more snow at higher elevations than we do at sea level.

I came up with two recommendations:

140 pounds per square foot at Sea level and at 100 vertical feet you would add another 20 pounds. (40% density) 150 pounds per square foot at Sea level and at 100 vertical feet you would add another 20 pounds. (50% density)

Commission had a lengthy discussion and explanations on the snow load data provided by Hoots.

Bailer ~ Thank you so much for all your hard work on this.

Bailer ~ Tom how about you, you're doing a lot of building, what do you think?

McGann ~ I think we should increase it, I was looking at it from a cost standpoint in residential. A cut roof, basically just adding more rafters, even if you had to double the amount of rafter it would only increase the dry in package by 3.6%. I looked at trusses and if you had to double the trusses it would only increase the total dry in package by 4.6%. So I don't think that it's becoming cost prohibitive to do this stuff.

Bailer ~ Yeah I would agree.

Samantha Greenwood ~ And I talked with a metal guy I don't know if you saw it in the Planners Report, but he is in Wasilla but has built buildings here. He did say that he thought that the labor would not substantially increase, but that there would be an increase of about 25%. Most of that would be weight and shipping.

Srb ~ With the idea in mind that some of these properties are being sold as seasonal and nobody is going to be there to babysit them it might behoove us to bump things up and try to better protect investments.

Samantha Greenwood ~ Okay, so I threw in that resolution in case you guys wanted to move forward like that, it's not something that we have to do.

After a lengthy discussion and explanation on the snow load data provided by Hoots the Commission agreed that in their opinion the snow load for Cordova should be increased to 150 pounds per square foot.

M/Srb S/McGann "I'd like to make a motion to make a change in the current snow load requirement of 100 pounds ground snow load to 150 pounds ground snow load to the City Council of the City of Cordova, Alaska.

Bailer ~ Scott did you hear the motion?

Pegau ~ Yes, I did hear the motion, the only comment I had was on the "whereas's" you might want to strike "Whereas, this year's snow load was not a record for City of Cordova." because you can't demonstrate it. Samantha Greenwood ~ You're right.

Upon voice vote, motion passed, 6-0

Attachment C: Resolution 12-03

CITY OF CORDOVA, ALASKA PLANNING AND ZONING COMMISSION RESOLUTION 12-03.

A RESOLUTION OF THE PLANNING AND ZONING COMMISSION OF THE CITY OF CORDOVA, ALASKA, RECOMMENDING TO CHANGE THE CURRENT SNOW LOAD REQUIREMENT OF 100 POUNDS GROUND SNOW LOAD TO 150 GROUND SNOW LOAD TO THE CITY COUNCIL OF THE CITY OF CORDOVA, ALASKA

WHEREAS, the City of Cordova experienced an exceptional snow year for 2011-12; and

WHEREAS, there were roof collapses and damage to buildings from snow load throughout the town; and

WHEREAS, to help provide for the public welfare and safety of citizens of Cordova; and

WHEREAS, after reviewing previous years ground snow load numbers, reviewing ground snow codes for nearby coastal communities, historical snow accumulation totals, and impact building cost building; and

WHEREAS, the Planning Department staff and the Planning and Zoning Commission would like to recommend to the City Council of Cordova to accept and support the new ground snow load of 150 pounds.

NOW, THEREFORE, BE IT RESOLVED THAT the Planning and Zoning Commission of the City of Cordova recommends to change the current snow load requirement of 100 pounds ground snow load to 150 ground snow load to the city council of the city of Cordova, Alaska

PASSED AND APPROVED THIS 8th DAY OF MAY, 2012

ATTEST:

Samantha Greenwood, City Planner

Tom Bailer, Chairman

Attachment D: Excerpt from Minutes of 5/14/12 City Council Special Meeting

19. Acceptance of Planning and Zoning Commission Resolution 12-03

M/Allison S/Reggiani to accept resolution 12-03 from the Planning and Zoning Commission. *Mayor Kallander* informed Council that to approve this resolution will add to the cost of new construction. *Beedle* opined that if this is passed than 100% of Cordova is out of compliance. What happens when a person goes to sell their house? *Greenwood* replied that existing structures would be grandfathered in; this would be required on new structures. *Beedle* asked if this is passed tonight when it takes effect. Will those building currently have to adjust their plans to accommodate this change? *Greenwood* responded that this resolution is just asking for Council's support. It is not passing anything. It will have to be changed in code, which would be an ordinance, two readings, and then 30 days after that. Until it becomes code we are still at the old code. When a person gets their building permit they will be notified of the building requirements according to code at that point in time. *Bradford* stated that he has no problem with this he will support it. *Reggiani* stated that he is going to support this. Vote on motion: 4 yeas, 1 nay (Beedle), 1 absent (van den Broek). Motion passes.

Ground Snow Load Analysis

Prepared for: City of Cordova May 1st, 2012



Prepared by: Steve "Hoots" Witsoe

133 of 183

Current snow load requirements for the City of Cordova are based on the International Building Code. Design snow loads for roofs are determined using ground snow load; p_g . Ground snow loads for Alaska locations are set forth in Table 7-1, ASCE 7-05, with Cordova at 100 lbs/ft². Interestingly, Cordova's nearest neighbors have significantly larger ground snow loads, with Yakutat at 150, Valdez at 160, and Whittier at 300 lbs/ft2. Authorities having jurisdiction can also determine ground snow load using extreme value statistical analysis of data available with a 2 percent annual probability of being exceeded (50 year mean recurrence interval).¹

Weather data for Cordova is limited to CEC Orca Power Plant², Mudhole Smith Airport³, Mt Eyak Snotel⁴, and personal observations⁵.

For this analysis, 26 years of power plant data and 14 years of airport data was used. A larger dataset exists for the airport but was not accessible at the time. While weather can be quite different between the power plant and the airport, their annual maximum height of snow is very similar (see Figure 1). The power plant data was used over the airport data because the data set was larger and the snow heights were slightly higher. It should also be noted that there are no weather records available for Whitshed Road, where snow heights are generally accepted as higher than the rest of town.



Extreme value statistical analysis was done using Gumbel Distributions and Gringorten estimations.⁶ For CEC Power Plant data, the maximum height of snow =11.387x+19.381. Using a 50 year return period, x=-ln(-ln(1-(1/50)=3.90, and the height of snow = 63.8 in. (See figure 2)



Mt Eyak Snotel had only 7 years of data, but gives insight into the affects of elevation on snow height. Its location is at approximately 1500 feet. The Snotel site, however, is prone to wind stripping. The nearby snow stake at the top of the ski hill has a similar elevation but offers a more wind loaded site, and shows the differences of snow height with site selection (see Figure 2).



Analysis of Mt Eyak Snotel data estimated a 50 year event at 156.9 inches, while Top Station data estimated 255.3 inches. An average of the data was used for the analysis to compensate for the differences between the datasets. Analysis of the average estimated a 50 year event at 212.9 inches.



Figure 4

Ground snow load equals the maximum height of snow multiplied by the density of snow. Densities vary through the snow pack, so a single density is used to estimate the value. Industry standard varies from 30% to 50% density of water, with 40% the norm.⁷ With the amount of rain Cordova can receive in winter, 50% density may be realistic. However, by the time 50% density is reached the height of snow would be lower than the maximum.

Using the Power Plant data for sea level, and the average of Snotel and Top Station data for 1500 vertical feet, a linear equation was used to interpolate the ground snow load versus elevation. This was done for both 40 % and 50% density (See Figure 5).





Conclusion

The 40% and 50% linear equations offer a recommended range for ground snow loads with respect to elevation. To simplify the equations for easier use, the slope and intercept can be rounded. The first recommended equation closely resembles the 40% equation, while the second recommended equation is slightly more conservative.

Recommended Ground Snow Load:

 $p_g(lbs/ft^2) = 140 + (0.2 \text{ x Elevation in feet})$

 $p_g (lbs/ft^2) = 150 + (0.25 \text{ x Elevation in feet})$

CEC Orca Power Plant

			CEC OR	La ruwei r	lant		
Water							ln (ln
Year	Max HS	V	m	Ν	Pv	ln (Pv)	(Pv))
1987	11	7	1	26	0.02144	3.84252	-1.34613
1988	13	7	2	26	0.05972	2.81802	-1.03603
1989	31	9	3	26	0.09801	2.32269	-0.84273
1990	39	10	4	26	0.13629	1.99294	-0.68961
1991	32	11	5	26	0.17458	1.74538	-0.55697
1992	29	11	6	26	0.21286	1.54710	-0.43638
1993	38	13	7	26	0.25115	1.38171	-0.32332
1994	9	15	8	26	0.28943	1.23983	-0.21497
1995	29	17	9	26	0.32772	1.11560	-0.10939
1996	30	21	10	26	0.36600	1.00511	-0.00510
1997	11	21	11	26	0.40429	0.90563	0.09913
1998	21	26	12	26	0.44257	0.81515	0.20438
1999	44	29	13	26	0.48086	0.73218	0.31172
2000	36	29	14	26	0.51914	0.65558	0.42224
2001	7	29	15	26	0.55743	0.58442	0.53713
2002	21	29	16	26	0.59571	0.51800	0.65778
2003	15	30	17	26	0.63400	0.45571	0.78590
2004	17	30	18	26	0.67228	0.39708	0.92362
2005	10	31	19	26	0.71057	0.34169	1.07384
2006	29	32	20	26	0.74885	0.28921	1.24059
2007	33	33	21	26	0.78714	0.23935	1.42981
2008	29	36	22	26	0.82542	0.19186	1.65098
2009	30	38	23	26	0.86371	0.14652	1.92057
2010	26	39	24	26	0.90199	0.10315	2.27156
2011	7	44	25	26	0.94028	0.06158	2.78738
2012	73	73	26	26	0.97856	0.02167	3.83170

	Pv=1-	-ln(-				snow	Pg
R	(1/R)	In(Pv)	y=11.387x(-ln(-ln(Pv)+19.381	ft/in conv	lbs/ft3	density	(lbs/ft2)
50	0.98	3.90	63.81	0.08	62.5	0.4	132.94

Snotel & Top Station Average

Water		Тор							ln (ln
Year	Snotel	Station	Average	V	m	Ν	Pv	ln (Pv)	(Pv))
2006	69	90	79.5	79.5	1	7	0.07865	2.54273	-0.93324
2007	87	110	98.5	92	2	7	0.21910	1.51822	-0.41754
2008	121	144	132.5	93.5	3	7	0.35955	1.02290	-0.02264
2009	83	104	93.5	98.5	4	7	0.50000	0.69315	0.36651
2010	101	128	114.5	114.5	5	7	0.64045	0.44559	0.80837
2011	80	104	92	132.5	6	7	0.78090	0.24731	1.39711
2012	127	240	183.5	183.5	7	7	0.92135	0.08192	2.50205

	Pv=1-		y=11.387x(-ln(-	ft/in		snow	Pg
R	(1/R)	-ln(-ln(Pv)	ln(Pv)+19.381	conv	lbs/ft3	density	(lbs/ft2)
50	0.98	3.90	212.85	0.08	62.5	0.4	443.44

137 of 183

References

- 1 ASCE 7-05 Minimum Design Loads for Buildings and Other Structures
- 2 CEC Orca Power Plant Weather Observations http://www.ncdc.noaa.gov/oa/ncdc.html
- 3 Mudhole Smith Airport Weather Observations http://www.ncdc.noaa.gov/oa/ncdc.html
- 4 Mt Eyak Snotel Weather Observations http://ambcs.org/
- 5 Steve "Hoots" Witsoe hoots@ctcak.net
- 6 National Institute of Standards and Technology http://www.nist.gov/itl/sed/index.cfm
- 7 Communication with Terry Onslow, Dave Hamre, and Pete Carter

Page 1 of 1



PRODUCT PROPOSAL AND PURCHASE AGREEMENT

10016. Showload

Phone: (541) 688-8671 Fax: (541) 688-0412

PROPOSAL SUBMITTED TO:	QUOTE# 26859Q	DATE: 12/01/14
Phone Quote/Walk-In	JOB NAME: CPU - City of Cordova	
ATTN: Customer	STREET: CPU	
STREET:	CITY: CPU - Eugene	STATE: OR
CITY:	FAX:	PHONE:

We are pleased to quote the Metal-Connected Wood Trusses for this project.

- A. Roof Loading: 25.0,8.0,0.0,7.0 Truss Gable Stud Spacing: 0.0 In. O.C. (Typ.)
- B. Lumber is Dry HFir/DFir 19% Moisture Content at time of manufacture.
- C. F.O.B. Jobsite plateline*, in bundles, within the limits of our equipment
 *PLATE LINE DELIVERY REQUIREMENTS: Street access to site, plate can be safely reached with boom, contractor aids driver, contractor assumes responsibility should the truck get stuck or breaks concrete.
- D. Shop Drawings and Truss Engineering will be provided after receipt of signed Proposal and Purchase Agreement by authorized agent.
- E. Allow 10 working days for manufacturing after receipt of approved drawings.
- F. Hardware included with trusses:
 - #0 No Blocking

#01 No Hangers

GRAND TOTAL: \$4727.00

PURCHASER: We hereby propose to furnish labor and materials -- complete in accordance with the above specifications, for the sum of: **\$4727.00** with payment to be made as follows:

Terms: 1/2 down at time of order, balance due at time of delivery; or net 10th with approved credit.

All material is to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from the above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above estimate.

NOTE: This proposal contingent upon approval of credit. Backcharges are not allowed without prior written approval by The Truss Co.

This proposal may be withdrawn by us if not accepted within 5 days and delivered within 15 days.

ACC The above prices, specifications and conditions are satisfact	CEPTANCE OF PROPOSA tory and are hereby accepted. You and						
Payment will be made as outlined above. I agree your liability on this order is limited to the amount paid to you and that there shall be no liability or claims made by me for incidental, consequential or delay damage claims of any kind.							
	In the event of any delinquency in my account, I authorize you to charge me 1 1/2% (18% annual rate) per month on any delinquent account balance, together with any attorney fees, costs and expenses incurred by The Truss Co. in collecting on any amount I owe to you.						
theTRUSSCO Inc.	PURCHASER:						
By: John A. Markan	Accepted By:	Date:					
Title: TRUSS DESIGNER	Title:						

	1		l PI	hone Quote/V	Valk-In			G	UOTATIC)N
29336 Airport Road Eugenc, OR 97402			мода но Р	ч Н-	FA	X-		QUOTE : ORDER :		
theTRUSS c			P C	PU - City of C PU PU - Eugene,		PAGE DATE	1 12/01/14			
Phone: (541) 688-8671 Fax	. ,	688-0412						<u> </u>		
PROJECT: City of Cord	Cont	i _ `			ered By:	Acco	Account No: 3100			
MODEL: 100# Snow Load			Nam	l		Į	omer	1	sman: House	
TAG: LOT # SUBDIV:			Phor Fax:			()	-		gner: JT	
	1 87.					P.O. Number:				
Tentative Delivery Date:	11							······		
DELIVERY INSTRUCTIONS:										
CUSTOMER NOTES: Samant	tha Gre	enwood								
907-424-6233										
planning@cityofcordova.net		_		· ·						
Roof Loading: 25.0,8.0,0.0				acing: 0.0 in. (I	······	
Profile:	Qty:	Truss Id:	Span:	Truss Type:	Siope:	LOH	ROH			
	ļ	·					1	<u> </u>	····	
	2	A01GE	40-00-00	OAH 07-09-13	4.00	02-00-00	02-00-00			
<u></u>		239 lbs.	2 X 6 2 X 4	GABLE	0.00		<u> </u>			
	29	A02	40-00-00	OAH 07-09-13	4.00	02-00-00	02-00-00			
		197 lbs.	2 X 6 2 X 4	DBL. FINK	0.00					
31 Total Trusses	2 1	Fotal Designs				•				
£		MISC. I	TEMS @							
		Quantity: 0 0	Descrip #0 No E #01 No							
								Terms: P	re-Pay	
My signature below indicate										
Agreement. The prices, spe are authorized to do the wor				•	• •					
Purchase Agreement. In the										
½% (18% annual rate) per r	nonth	on any d e linquent acc	ount balance							
		с.						ļ		
Accepted By:				Date:					GRAND TOTAL	\$4727.00

`

Page 1 of 1

15016. Snowload



PRODUCT PROPOSAL AND PURCHASE AGREEMENT

Phone: (541) 688-8671 Fax: (541) 688-0412

PROPOSAL SUBMITTED TO:	QUOTE# 26859A	DATE: 12/01/14
Phone Quote/Walk-In	JOB NAME: CPU - City of Cordov	va
ATTN: Customer	STREET: CPU - Eugene	
STREET:	CITY: CPU	STATE: OR
CITY:	FAX:	PHONE:

We are pleased to quote the Metal-Connected Wood Trusses for this project.

- A. Roof Loading: 25.0,8.0,0.0,7.0 Truss Gable Stud Spacing: 0.0 in. O.C. (Typ.)
- B. Lumber is Dry HFir/DFir 19% Moisture Content at time of manufacture.
- C. F.O.B. Jobsite plateline*, in bundles, within the limits of our equipment
 *PLATE LINE DELIVERY REQUIREMENTS: Street access to site, plate can be safely reached with boom, contractor aids driver, contractor assumes responsibility should the truck get stuck or breaks concrete.
- D. Shop Drawings and Truss Engineering will be provided after receipt of signed Proposal and Purchase Agreement by authorized agent.
- E. Allow 10 working days for manufacturing after receipt of approved drawings.
- F. Hardware included with trusses:
 - #0 No Blocking

#01 No Hangers

GRAND TOTAL: \$6776.00

PURCHASER: We hereby propose to furnish labor and materials -- complete in accordance with the above specifications, for the sum of: **\$6776.00** with payment to be made as follows:

Terms: 1/2 down at time of order, balance due at time of delivery; or net 10th with approved credit.

All material is to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from the above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above estimate.

NOTE: This proposal contingent upon approval of credit. Backcharges are not allowed without prior written approval by The Truss Co.

This proposal may be withdrawn by us if not accepted within 5 days and delivered within 15 days.

141 of 183

	4	**************************************			none Quote/M	Valk-In			Q	JOTATIC	N
29336 Airport Road Eugene, OR 97402				۳۵ ⁻ ۲۰ PH- FAX-					QUOTE #	26859A	
theTRUSSco.inc. Phone: (541) 688-8671 Fax: (541) 688-0412				CPU - City of Cordova CPU - Eugene					PAGE DATE	1 12/01/14	
PROJECT: City of Cordova MODEL: 150# Snow Load TAG: LOT #					Contact: Job Super: Ordered By: Name: Customer Customer Phone: () - () - Fax:			Account No: 3100 Salesman: House Designer: JT P.O. Number:			
Tentative Delivery Date:	11										
DELIVERY INSTRUCTIONS: CUSTOMER NOTES: Samant 907-424-6233 planning@cityofcordova.net				4 0					÷		
Roof Loading: 25.0,8.0,0.0, Profile:	7.0 Qty:		Spa		acing: 0.0 In. (Truss Type:		a	ROH			
				:							
	2	A01GE 307 lbs.	40-00 2 X 8 2		OAH 07-11-10 GABLE	4.00 0.00	02-00-00	02-00-00			
	29	A02 266 lbs.	40-00 2 X 8 2		OAH 07-11-10 DBL. FINK	4.00 0.00	02-00-00	02-00-00			
31 Total Trusses	2 T	otal Designs									
	r	MISC. I	TEMS	6@						۹.	
		Quantity: 0 0	#C		tion: Blocking Hangers						
									Terms: Pre	-Pay	
My signature below indicate Agreement. The prices, spe are authorized to do the wor Purchase Agreement. In the ½% (18% annual rate) per n	ecificat k spec e even	ions and conditions an cified. Payment will be it of any delinquency in	re satis e made n my ac	factor as ou coun	y and are hereb utlined on the Pr t, I authorize you	y accept oduct Pr	oposal and	ы.		•	•
Accepted By:		د	v		Date:				-	GRAND TOTAL	\$6776



42

Memorandum

To:Planning CommissionFrom:Planning StaffDate:12/4/14Re:Chapter 16 Building Codes

PART I – GENERAL INFORMATION

Attachment A Design Criteria Attachment B Seismic zone map Attachment C letter from Engineer Attachment D comparison of 2006 to 2009 IRC IBC is the international building code for commercial building.

IRC is the international residential code for single, two and multiply family dwellings up to 3-plexs

We are a deferred community meaning that we use the state fire marshal for fire life and safety reviews and are obligated to adopt the same IBC as the State.

For this meeting I am attaching the current design criteria for review. We will be discussing the snow load at this meeting under a different agenda item. In the past there was substantial discussion about the seismic design category for Cordova. I have attached the seismic zone map from the IRC and a letter from Grand Engineer outlining their thoughts on the seismic design category for Cordova. The city of Anchorage is Seismic Design Category – D (IBC), D_2 (IRC)

I have also attached a document that outlines the major changes between the 2009 and 2006 IRC for review. Since the State does not adopt a version of the IRC we can stay with 2006 or move to 2009.

ATTACHMENT A



CITY OF CORDOVA

Planning Department

City of Cordova 602 Railroad Ave. P.O. Box 1210 Cordova, Alaska 99574 Phone: (907) 424-6220 Fax: (907) 424-6000 Email: planning2@cityofcordova.net Web: www.cityofcordova.net

DESIGN CRITERIA**

In accordance with the International Building Code (IBC)

<u>Design Type</u>	<u>Criteria</u>	
Roof Snow Load	150 lbs. per sq. foot	
Wind Speed	100 mile per hour	
Seismic Zone	d	
Weathering	Severe	
Frost Line Depth	24"	
Termite	No	
Decay	Yes	
Winter Design Temperature	12°	
Flood Hazards	Yes	
Design Winter Temp	-2°	
Design Winter Wind Speed	4.8 mph	
Heating Degree Days	9004	


FIGURE R301.2(2) SEISMIC DESIGN CATEGORIES - SITE CLASS D (continued)

Attachment C

Grand Engineering LLC Phone: 907-373-2313 P.O. Box 877650 Fax: 907-357-2313

Wasilla, Alaska 99687 Email: <u>sgrand@mtaonline.net</u>

October 3, 2012

Mr. Dee High DHI CONSULTING ENGINEERS Sent by email: <u>deeh@dhialaska.com</u>

Dee:

Here's some preliminary notes regarding our phone conversation & email:

Cordova plans to adopt the 2006 editions of the International Building Code (IBC), and International Residential Code (IRC), and is considering local amendments.

I assume that "Seismic zone E" in this case refers to "Seismic Design Category (SDC) E", which is used in both codes and is mapped by the IRC.

The IRC map is pretty small, but it looks like Cordova is within SDC="D2" & close to SDC="E". USGS's website gives SDC= "E" near the Cordova airport for Soil Type "D" (stiff soil). See the USGS notes below.

IBC Seismic Design Category (SDC) is determined by soil type, ground acceleration, and building occupancy. SDC is used along with construction type (steel, wood,etc.), structural system: bearing & shear walls, frames, bracing, etc, and other factors to estimate the response of the building under seismic ground motion.

The SDC value is also used to limit building heights, encourage ductility, and discourage some types of construction, and to discourage buildings in highly active seismic areas on poor soil.

It seems reasonable that a local amendment to the IRC might include a requirement that a design must provide for a minimum of SDC = "E" for stiff soil. This might be given as appropriate replacement text in relevant sections of the code.

This amendment would not be appropriate for the IBC, though others might be considered.

Please let me know if I can be of any more help on this.

Page 1 of 2 pages

Grand Engineering LLC Phone: 907-373-2313 P.O. Box 877650 Fax: 907-357-2313

Wasilla, Alaska 99687 Email: <u>sgrand@mtaonline.net</u>

USGS:

- 1. Web site: <u>http://earthquake.usgs.gov/hazards/designmaps/javacalc.php</u>. Version 5.1.0 of the Java Application provides 2006 IRC seismic data..
- <u>http://geohazards.usgs.gov/designmaps/us/</u>. U.S. Seismic Design Maps Web Application provides data for most current codes. 2010 ASCE 7 data is most current

Sincerely:

Steve Gran

Steve Grand PE Grand Engineering LLC

Page 2 of 2 pages

Attachment D

Significant Changes to the IRC – 2009

Quick Reference Sheet

Section/Topic	2006 IRC	2009 IRC	Notes/Additional Comments
	Scope and Adminis	tration (Chapter 1)	•
R101.2 Modification: 'Grade Plane' replaces the word 'grade' in determining the story limitations.	IRC provisions applies to 1-2 family dwellings & townhouses not more than 3 stories above grade.	Grade plane is an average of the finished ground level measured at the lowest point within 6 feet of the exterior wall. e n practice new language will not	In practice new language will not change the outcome in most cases.
R101.2 Addition: A new exception allows a mix of residential & non- residential uses.		Live/work units complying with requirements of IBC 419 shall be permitted to be built as 1-2 family dwellings or townhouses not more than 3 stories above grade plane.	Requires fire suppressions per 419.5 of the IBC.
R105.2 Modification: The floor area for accessory structures that are exempt from permits has increased from 120 to 200 sq. ft.	The permit exemption was reduced to 120 sq. ft. due to concerns about building garages.	The permit exemption went back to 2003 standards.	Unattached decks 200 sq. ft. or under & not serving as required exit door & not more than 30 in. above grade do not need a permit.
R105.2 Modification: The code now provides a list of electrical repairs & installations considered sufficiently routine to forgo permitting & inspection as previous language was deemed too vague & subjective.	Electrical – A permit shall not be required for minor repair work.	 Electrical: Listed cord and plug connected temporary lighting. Reinstallation of attachment plug receptacles but not the outlets therefore. Replacement of branch circuit overcurrent devices of the required capacity in the same location. Electrical wiring, devices appliances, apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 watts of energy. 	Minor repair work remains in the list giving discretion to the building official to make a determination.
R106.1.1 Modification The code now lists specific wall bracing information to be included on drawings or other construction docs.		Requiring wall bracing details on construction drawings ensures that bracing is being considered during the design & review process. The builder will also readily see what is required. Foundation & attachment details must be identified.	As with other submittals, the building official is authorized to decide if such information is necessary for a particular project.
	Definitions	(Chapter 2)	
R202 Addition: Attic definition has been revised & a new definition for habitable attic has been added in order to be more inclusive.	The unfinished space between the ceiling joists of the top story & the roof rafters.	The unfinished space between the ceiling assembly of the top story and the roof assembly. Attic, Habitable: A finished or unfinished area, not considered a story, complying with the following: 1. Occupiable floor area is at least 70 square feet. 2. Occupiable floor area has	Habitable attics are not considered a story, but must meet minimum room size & ceiling height requirements, require a smoke detector, emergency escape and rescue opening and means of egress complying with R311.

		ceiling height in accordance w/R305. 3. Occupaible space is enclosed	
		by the roof assembly above, knee walls on the sides and the floor- ceiling assembly below.	
R202 Modification: Definitions for labeled & listed have been revised for clarity & consistency.		The code now clarifies that the testing laboratory or testing agency must be nationally recognized.	
R202 Addition: IRC now includes prescriptive methods of construction using structural insulated panels (SIPs) with new definitions.	SIP – Factory fabricated panels of solid core insulation with structural skins of oriented strand board (OSB) or plywood.	SIP – A structural sandwich panel that consists of a light-weight foam plastic core securely laminated between 2 thin, rigid wood structural panel facings.	Added definitions for: Cap Plate Core Facing Spline
	Building Planni	ng (Chapter 3)	
R301.1.1 Modification: The IRC now recognizes a recently developed standard for log construction & the reference standard for cold formed steel framing has been updated.	 American Forest & Paper Association (AF&PA) Wood Frame Construction Manual. American Iron & Steel Institute (AISI) Standard for Cold Formed Steel Framing (COFS/PM) with Supplement to Standard for Cold-Formed Steel Framing – Prescriptive Method for 1 & 2 Family Dwellings. 	Year 2004 AISI has been replaced with year 2007 AISI 230. The IRC now requires ICC-400 Standard on the Design & Construction of Log structures.	The prescriptive methods for cold-formed steel framing now apply to 3 story buildings – an increase from an allowable 2 stories in the previous standard & the 2006 IRC & are consistent with the height limits of conventional wood frame construction.
R301.2.1.1 Modification: The IRC now recognizes structural insulated panel (SIP) construction for high wind areas – bringing the list of design alternatives to 6.	 American Forest & Paper Association (AF&PA) Wood Frame Construction Manual for 1- 2 Family Dwellings (WCFM); or Southern Building Code Congress International Standard for Hurricane Resistant Residential Construction (SSTD 10). Minimum Design Loads for Buildings & Other Structures (ACSE 7); or American Iron & Steel Institute (AISI), Standard for Cold Formed Steel Framing – Prescriptive Method for 1-2 Family Dwellings (COFS/PM). Concrete construction shall be designed in accordance with the provisions of this code. 	 2 - ICC Standard for Residential Construction in High Wind Regions (ICC-600) replaces SSTD 10. 4 - AISI S230 replaces AISI. 6 - Structural insulated panel (SIP) walls shall be designated in accordance with the provisions of this code. 	
R301.2.1.2 & Table R301.2.1.2 Modification: Protection of glazed openings for garage doors is now specifically required in windborne debris region.	The IRC required glazing only in windows to be protected from windborne debris and did not specifically address protection of glazing in garage doors.	When wood structural panels are used for any opening protection, they must be predrilled & the mounting hardware must be permanently attached to the building to ease installation. The	

		prescriptive methods for attaching wood structural panels now require additional anchors with greater embedment depth & resistance. The testing of the garage door in aaccordance with ANSI/DASMA 115 is also used to determine compliance with the component and cladding loads of Table R301.2.	
R301.2.1.5 and Table R301.2 (1) Addition: Under very limited circumstances in localized geographic areas, design of buildings sited on a hill, ridge, or escarpment must consider the effects of topographic wind speedup.		To determine wind speedup engineered designs according to ASCE 7 may be required or one may use the simplified method to design for an increased basic wind speed based on the slope of the topographic feature in accordance with Table R301.2.1.5.1.	The provisions for topographic wind speedup effects apply only where there are historical data of structural damage from such effects. These circumstances are most likely to occur in areas of the Pacific Northwest where there are dramatic changes in ground topography.
R301.2.2 Seismic Provisions Clarification Reorganization of the seismic provisions clarifies the design application within each seismic design category.		The seismic provisions have been rearranged in a sequential order to clarify when they apply.	The second confusing paragraph of the previous code was removed which had sent the user to provisions that applied to all SDCs.
R301.2.3 Snowloads Modification: Structural Insulated Panels (SIPs) have been added to the list of approved prescriptive construction methods that are limited to a maximum ground snow load of 70 psf.		The IRC now includes prescriptive requirements for construction with SIPs. Buildings located in areas where ground snow load exceeds 70 psf must be designed in accordance with accepted engineering practice.	
R301.3 Story Height Modification: Floor framing is now permitted to exceed 16 in. provided the overall story height is not exceeded. SIP bearing walls are limited to 10 ft. in height.	The code limited story height to the sum of the tabular value for stud wall height plus 16 in. for the floor framing height in order to limit story height, measured from the finished floor surface one 1 story to the finished floor of the next story.	The new language permits floor framing to exceed the 16 in. height limit provided the story height does not exceed 11ft. 7 in. For masonry walls, a maximum bearing wall clear height of 12 ft. plus a height of floor framing not to exceed 16 in.	For wood framed wall buildings with bracing in accordance with Tables R602.10.1.2(1) and R602.3(5), the wall stud clear height may be increased to 12 ft. without requiring an engineered design.
Table R301.5 Minimum Uniformly Distributed Live Loads Modification: The definitions for deck and balcony have been removed & the minimum uniform live load for balconies has been lowered.		The minimum live load for balconies has been lowered from 60 psf to 40 psf to be consistent with decks as both perform the same function. The criteria for determining a limited attic storage area now considers the required depth of the insulation relative to the truss bottom chord depth. Habitable attics & attics served	A new defined term in the 2009 IRC, habitable attics are occupiable space between the uppermost floor/ceiling assembly & the roof assembly.

			·
		with stairs have been added to the table and have a minimum	
		live load of 30 psf.	
R302.1 and Table R302.1 Fire Resistant Construction at Exterior Walls Modification: R302 has been renamed <i>Fire-</i> <i>Resistant Construction</i> & pulls in related provisions from sections on separations, penetrations, and other fire- resistance requirements so that they reside in 1 section & can be more easily located.	Construction, projections, openings & penetration of exterior walls of dwellings & accessory buildings shall comply with Table 302.1. These provisions shall not apply to walls, projections, openings or penetrations in walls that are perpendicular to the line used to determine the fire separation distance.	All fire-resistance provisions have been reorganized & placed into Section R302. Exterior walls requiring a 1 hour fire-resistance rating due to fire separation distance must now meet requirements of ASTM E 119 or UL 263. Fire separation distances no longer apply to buildings on the same lot – no separation distance or fire-resistance rating is	Changes to the text of the various sections that are brought into R302 are minor & editorial. This new exception does not apply to townhouses or detached garages less than 3 ft. from a dwelling.
		required between detached structures on the same lot. Changes to Table 302.1 clarify the application of the fire	
R302.2 & R302.3 Dwelling Unit Separation Modification: The dwelling unit separation provisions have been relocated from Section R317 to R302.	302.3 - Detached garages accessory to a dwelling located within 2ft. of a lot line are permitted to have roof eave projections not exceeding 4 in. 302.3 – Foundation vents installed in compliance with this code are permitted.	separation distance requirements. The fire-resistance rating for the common wall between townhouses has been reduced from 2 hours to 1 hour as fire sprinklers are now required in all new townhouses. Each townhouse shall be considered a separate building & shall be separated by fire- resistance-rated wall assemblies meeting the requirements of Section R302.1. Each individual townhouse shall be structurally independent. Dwelling units in 2 family dwellings shall be separated from each other by wall and/or floor assemblies having not less than 1 hour fire-resistance-rating when tested.	The code now recognizes UL 263 as an equivalent test standard to ASTM E 119 for fire-resistance. A common 1 hour fire resistance rated wall satisfies the townhouse separation requirements. The 1 hour fire-resistance rating wall assembly is permitted if the walls do not contain plumbing, or mechanical equipment, ducts or vents in the cavity of the wall.
R302.4 Rated Penetrations for Dwelling Unit Separation Modification: The rated penetration provisions for dwelling unit separation have been relocated from Section R317 to Section R302.		R317.1 has been replaced with R302.1. R317.2 has been replaced with R302.3. R317.3.1.1 has been replaced with R302.4.1.1 with no changes to the text. R317.3.1.2 has been replaced with R302.4.1.2 with no changes to the text.	The exception to Section R302.4.1 permits penetrating items of specified metal pipe or conduit in 2 instances in lieu of a listed assembly or penetration firestop system. In the 1 st instance, firestopping materials may be concrete, grout, or masonry. In the 2 nd instance, the code now recognizes UL 263 as an equivalent test standard to ASTM E 119.

		R317.3.2 has been replaced with R302.4.1 and R302.4.2	
R302.5 Garage Openings & Penetrations Modification: The dwelling/garage separation provisions in Sections R309.1 & R309.2 of the 2006 IRC have been relocated to Section R302 with the other fire-resistant construction provisions.	See Sections R309.1 & R309.2. Penetrations other than ducts required the opening around the penetrating item to be filled with approved material to restrict passage of combustion products.	Openings & penetrations through the walls or ceilings separating the dwelling from the garage shall be in accordance with Section R302.5.1 through R302.5.3. Penetration requirements reference the fireblocking provisions (previously R602.8) have been relocated to Section R302.11. R302.11 requires fireblocking to cut off all concealed draft openings & to form an effective fire barrier between stories & between a top story & the roof space The application of this change is to seal around openings of pipes, vents, cables, and wires penetrating the separation at the floor & ceiling level.	The provisions for door openings & duct penetrations through the separation between the dwelling & the garage have not changed.
R302.6 and Table R302.6 Garage Separation Clarification: The dwelling/garage separation provisions in sections R309.1 and R309.2 have been relocated to Section R302 with the other fire resistant construction provisions.	See Sections R309.1 & R309.2	For clarification, the provisions requiring the application of gypsum board on the garage side of the separation from a dwelling have been placed in a new table & the corresponding text has been deleted from Section R309.2.	No technical change to the code is in intended with this revision to place the garage/dwelling separatin requirements in an easier to read table format.
R305.1 Minimum Ceiling Height Modification: Ceiling Height requirements have been reorganized for clarification.	Habitable rooms, hallways, corridors, bathrooms, toilet rooms, laundry rooms and basements shall have a ceiling height of not less than 7 ft.	The 7 ft. ceiling height now specifically applies to habitable space as defined in Section R 202, hallways, bathrooms, toilet rooms, and laundry rooms. Bathrooms shall have a minimum ceiling height of 6 ft. 8i n. at the center of the front clearance area for fixtures as shown in Figure R307.1 Provisions for lower ceiling heights in portions of basement used for utility & storage have been moved to a separate subsection. For rooms with sloped ceilings, at least 50% of the required floor area of the room must have a	Corridors have been removed from the list because the term is not relevant to buildings regulated by the IRC. The exception allowing beams & girders to project below the required ceiling height has been removed.

colling holght loss than 5 ft. colling holght loss than 5 ft. 2008 1 & R208.3 Identification CPSC 16 CFR 1201 is a tedrard standard that madates where & the code nover ecophies when safety glazing products not regulated by the test procedure to CPSC 16 CFR 1201 for safety glazing products not regulated by the test procedure to CPSC 16 CFR 2021 for safety glazing products not regulated by the test and the colling holght loss than 3 ft. The endprove the score standard that mala applications & the activity application of the score appropriately placed. In an editorial change. exceptions to for 80.8.4 hove been enclosed to Section only in storm dows, constraintion dows, constraintion, sofely glazing under the RQ, the code new recognizes stand with Mail 2017 1.1 as weldt. In a codorial change. In a codorial change. Events to start the product he RQ, the code new recognizes stand with Mail 2017 1.1 as weldt. In a codorial change. In a codorial change. R318.4 Hazardous Localions Regulation and the regulation of the regulation and the provisions start glazing a hazardous localions. The 2009 change is largely deling repetitive or unnecessary anguage, organizing the matter in a case from the provisions start provided 10 exceptions. each of which hey apply. The 11 nucles of 2006 the exceptions to a sceptions to directly follow the regulation and the scene regulating the indent to the locations requiring an emergency escape & rescue opening. Habitable attics are considered spaces for sleeping & so shall require mergency escape & rescue opening. New language clarifies that the means of egress to a user finedly format but intends only minor technical the area for organizes provisions in a userfinedly format but intends only minor technical theregre			ceiling height of 7 ft with no	
of Clauge & Human Impact Loads Modification: The code now recognizes AMSI 797.1 as an alternative bein architectural applications & prempts any non-identical state of local standard. 2 standards is their scope & been relocated to Section Radials metals and during the information of the CPX reguires materials meetal doors, suffing active glazing under the IRC, the code new recognizes testing with AMSI 797.1 as well. exceptions for ASID 4 have been relocated to Section Radials metals and any over 4 tub doors & enclosures, For ord their locations requiring safety glazing under the IRC, the code new recognizes testing with AMSI 297.1 as well. exceptions for ASID appropriately placed. R308.4 Hazardous locations subject to human impact have been reorganized in an estate using to use formation requiring an emergency escape & rescue opening. The 2000 change is largely appropriately placed. The 2000 change is largely appropriately placed. R310.1 Emergency Escape & added to the locations provisions have been reorganized in a systematic order to provide a better understanding of the reggenzed in a systematic order. Basements & every sleeping room shall have at least 1 operable energency escape & rescue opening. Habitable attics are considered spaces for sleeping & so shall requirements have been recude a better and to site with a systematic order. New language clarifies the the means of egress provisions have been recude a better and a systematic order to provide a better and door. The revision of the entire section of the building X there are no requirements beyond that point. Net clear opening requirements for the Tequire entire of the requirements of the requirements of the 1 require order. R310.1 Emergency escape & rescue opening. Statiways				
Requiring Safety Glazing Modification: hazardous locations requiring safety glazing & in a separate list, provided 10 exceptions, each of which applied to 1 or more of the hazardous locations. application of the provisions by deleting repetitive or unnecessary language, organizing the material in logical manner, and moving exceptions to directly follow the rule to which they apply. The 11 rules of 2006 have been reduced to 8 by merging the information related to safety glazing in doors. editorial. R310.1 Emergency Escape & Rescue Openings Modification: Habitable attics have been added to the locations requiring an emergency escape & rescue opening. Basements & every sleeping room shall have at least 1 operable emergency escape & rescue opening. Habitable attics are considered spaces for sleeping & so shall reguire an emergency escape & rescue opening. R311. Emergency Escape & requiring an emergency requiring an emergency requiring an emergency escape & rescue opening. Stairways, ramps, exterior egress balconies, hallways & doors shall code. New language clarifies that the means of egress in the IRC ends when the occupant reaches grade at the exterior of the building & the ear en or equirements bave replaced the nominal door size for the required egress door to the exterior. The revision of the entire ergens ments for the 1 required egress door to the exterior. A door with a nominal size of 3ft. by 6ft Bin. satisfied the size requirements for the 1 required exit door. The means of egress fravel from all horizontal egress travel from all portions of the dwelling to the exterior of the dwelling to the exit door.	of Glazing & Human Impact Loads Modification: The code now recognizes ANSI Z97.1 as an alternative test procedure to CPSC 16 CFR 1201 for safety glazing products not regulated by the federal standard.	standard that mandates where & when safety glazing material must be in architectural applications & preempts any non-identical state	2 standards is their scope & function. The CPSC requires the installation of safety glazing materials meeting 16 CFR 1201 only in storm doors, combination doors, entrance-exit doors, sliding patio doors, closet doors, and shower & tub doors & enclosures. For other locations requiring safety glazing under the IRC, the code new recognizes testing with	exceptions from R308.4 have been relocated to Section R308.3 where they are more
Rescue Openings Modification: room shall have at least 1 spaces for sleeping & so shall require an emergency escape & rescue opening. Habitable attics have been added to the locations requiring an emergency escape & rescue opening. rescue opening. spaces for sleeping & so shall require an emergency escape & opening. R311 Egress Modification: The means of egress balconies, hallways & doors shall comply with all sections of the code. New language clarifies that the means of egress in the IRC ends when the occupant reaches grade the building & the requirements beyond that point. Net clear opening requirements have replaced the nominal door size for the required egress door to the exterior. The means of egress shall provide a better understanding of the ergerss. The means of egress shall be readily openable in the direction of the egress. New language clarifies that the mominal door size for the required egress door to the exterior. The means of egress shall provide a better or of the dwelling to the exterior. The means of egress shall provide a continuous & unobstructed path of vertical and horizontal egress travel from all portions of the dwelling to the exterior of the dwelling to the ext	Requiring Safety Glazing Modification: Requirements for safety glazing at hazardous locations subject to human impact have been reorganized	hazardous locations requiring safety glazing & in a separate list, provided 10 exceptions, each of which applied to 1 or more of the	application of the provisions by deleting repetitive or unnecessary language, organizing the material in logical manner, and moving exceptions to directly follow the rule to which they apply. The 11 rules of 2006 have been reduced to 8 by merging the information	
The means of egress provisions have been reorganized in a systematic order to provide a better understanding of the requirements.balconies, hallways & doors shall comply with all sections of the code.means of egress in the IRC ends when the occupant reaches grade at the opening requirements have replaced the nominal door size for the required egress door to the exterior.section organizes provisions in a user-friendly format but intends only minor technical changes.A door with a nominal size of 3ft. by 6ft 8in. satisfied the size requirements for the 1 required exit door.The means of egress shall provide a continuous & unobstructed path of vertical and horizontal egress travel from all portions of the dwelling at the required egress door without required gress door without required egress greys so of Section R311.section organizes provisions in a user-friendly format but intends only minor technical changes.	Rescue Openings Modification: Habitable attics have been added to the locations requiring an emergency	room shall have at least 1 operable emergency escape &	spaces for sleeping & so shall require an emergency escape &	
at least 1 egress door in Section	R311 Egress Modification: The means of egress provisions have been reorganized in a systematic order to provide a better understanding of the	 balconies, hallways & doors shall comply with all sections of the code. All egress doors shall be readily openable in the direction of the egress. A door with a nominal size of 3ft. by 6ft 8in. satisfied the size requirements for the 1 required 	 means of egress in the IRC ends when the occupant reaches grade at the exterior of the building & there are no requirements beyond that point. Net clear opening requirements have replaced the nominal door size for the required egress door to the exterior. The means of egress shall provide a continuous & unobstructed path of vertical and horizontal egress travel from all portions of the dwelling to the exterior of the dwelling at the required egress door without requiring travel through a garage. Habitable attics require a stair or ramp meeting the egress provisions of Section R311. The word 'egress' replaces the word 'exit' for the requirements of 	section organizes provisions in a user-friendly format but intends only minor technical

		egress door must be readily openable from the inside of the building. The code now specifies that the required net clear opening dimensions & the method for measuring when the door is opened to the 90 degree position. The minimum net opening dimensions are now consistent with the door requirements for means of egress & accessibility for persons with disabilities in the IBC.	
R311.7.2 Stairway Headroom Modification: The minimum headroom is measure above the usable area of the treads in an open stairway & does not apply to the ends of treads where they project under the edge of the floor opening above.	R311.5.2 states that the minimum headroom in all parts of the stairway shall not be less than 6ft. 8 in. measured vertically from the sloped plane adjoining the tread noising or from the floor surface of the landing or platform.	R311.7.2 replaces R311.5.2. The code now more clearly states the intent that minimum stair headroom height is required above only the area where a person normally walks on the stair. The exception states that where the nosing of treads at the side of a flight extend under the edge of a floor opening through which the stair passes, the floor opening shall be allowed to project horizontally into the required headroom a maximum of 4 ¾ in.	The code change permits stair openings & support walls to be positioned in line in the vertical plane without creating any hazard.
R311.7.3 & R311.7.4 Stair Treads & Risers Modification: New provisions defining the walk line intend to clarify the tread depth requirements for winders.	See R311.5.3	R311.7.3 replaces R311.5.3. The walk line across winder treads shall be concentric to the curved direction of travel through the turn & located 12 in. from the side of where the winders are narrower. The 12in. standard dimension shall be measured from the widest point of the clear stair width at the walking surface of the winder. If the winders are adjacent within the flight, the point of the widest stair width of the adjacent winders shall be used. R311.7.4.1 replaces R311.5.3.1. For the purpose of this section all dimensions & dimensional surfaces shall be exclusive of carpets, rugs, or runners. R311.7.4.2 replaces R311.5.3.2. The minimum tread depth shall be 10in. It shall be measure horizontally between the vertical planes of the foremost projection	The IRC now provides for measurement of stair risers before carpet is installed. Carpet is not regulated by the code but is commonly considered in measuring stair riser height. Carpet may not be installed at the time of the final inspection or initial occupancy. A nosing is not required where the tread depth is a minimum of 11 in. The opening between adjacent treads is not limited on stairs with a total rise of 30 in. or less.

		of adjacent treads & at a right angle to the tread's leading edge.	
		The greatest tread depth within any flight of stairs shall not	
		exceed the smallest by more 3/8	
		in. Consistently shaped winders at the walk line shall be allowed	
		within the same flight of stairs as rectangular treads & do not have	
		to be within 3/8in. of the	
		rectangular tread depth. Winder treads shall have a minimum	
		tread depth of 6 in. at any point	
		within the clear width of the stair. Within any flight of stairs, the	
		largest winder tread depth at the walk line shall not exceed the	
		smallest by more than 3/8 in.	
		R311.7.4.3 replaces R311.5.3. The radius of curvature at the	
		nosing shall be no greater than	
		9/16in. Risers shall be vertical or sloped under the tread above the	
		underside of the nosing above at an angle not more than 30	
		degrees from the vertical.	
R311.7.7 Handrails Modification: Transition changes are now	R311.5.6	R311.7.7 replaces R311.5.6 with no change of text.	An editorial change clarifies that Type I handrails must
permitted to exceed the maximum handrail height of		R311.7.7.1 replaces R311.5.6.1	have rounded edges consistent with the description
38 in.		with no change of text. However, the use of a volute, turnout, or	of Type II handrails.
		starting easing shall be allowed over the lowest tread. The other	
		exception is that when handrail	
		fittings or bendings are used to provide continuous between	
		flights, the transition from handrail	
		height at the fittings or bendings shall be permitted to exceed the	
		maximum height.	
		R311.7.7.2 replaces R311.5.6.2	
		with change of text.	
		R311.7.7.3 replaces R311.5.6.3 with no change of text except for	
		Type I handrails, which adds that	
		edges shall have a minimum radius of .01 in.	
R312 Guards Modification: The provisions for guards	See R312 Porches, balconies, ramps or raised floor surfaces	Guards shall be located along open sided walking surfaces,	The first section now only determines where guards are
have been reorganized into 3	located more than 30 in. above	including stairs, ramps, landings,	required & gives an objective
separate sections – required locations, height, and opening	the floor or grade below shall have guards not less than 36 in.	that are located more than 30 in. measured vertically to the floor or	means for measuring the height of the walking surface
limitations – and the technical provisions revised for	in height. Open sides of stairs with a total rise of more than 30	grade below at any point within 36 in. horizontally to the edge of the	above the grade below.
clarification & consistency in	with a total LISE OF HIDLE [[[d]] SU	in. nonzonially to the edge of the	
application.	in. above the floor or grade below shall have guards not less than	open side. Insect screening shall not be considered as a guard.	

	vertically from the nosing of the	312.2 replaces Guard Opening	
	treads. Porches & decks which are enclosed with insect screening shall be equipped where the walking surface is located more than 30 in. above the floor or grade below. R312.2 Guard Opening Limitations – Required guards on open sides of stairways, raised floor areas, balconies and porches shall have intermediate rails or ornamental closures which do not allow passage of a sphere of 4 in. or more in diameter. 2 exceptions are listed.	Limitations with Height Requirements. Required guards at open sided walking surfaces, including stairs, porches, balconies, or landings, shall not be less than 36 in. high measure vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads with 2 exceptions listed. R312.3 replaces R 312.2. It takes out the word 'Guard' from 'Guard Opening Limitations.' Required guards shall not have openings from the walking surface to the required guard height which allow passage of a sphere of 4in. in diameter with the 2 exceptions also modified.	
R313 Automatic Fire Sprinkler Systems Addition: An automatic fire sprinkler system is now required in 1-2 family dwellings & townhouses.		An automatic fire sprinkler system installed in accordance with IRC Section P2904 or NFPA 13D is now required for 1-2 family dwellings & townhouses.	The new standards uses less water, may be taken from water wells, and do not need to be placed in every room.
townhouses.		In 1-2 family dwellings the ruling will not take effect until Jan 1, 2011.	
R314 Smoke Alarms Clarification: New text clarifies the maintenance & supervision requirements for household fire alarm systems.	See R 313.1	Reorganization of the smoke alarm provisions places all of the power requirements in 1 section and separates the alternative household fire alarm systems from the smoke alarm section. Section R314 replaces Section R313 with some editing. Where a household fire warning system is installed using a combination of smoke detector & audible notification devices, it shall become a permanent fixture of the occupancy & owned by the homeowner. The system shall be monitored by an approved supervising station & be maintained in accordance with NFPA 72. Exception 1 from the old R313.2.1 has been removed.	The requirement in the 2006 IRC for the household fire alarm systems to operate if the panel was removed has been deleted & language added to clarify these provisions. Such a system cannot function if the fire alarm panel is removed. The added language ensures system reliability by requiring the system to be owned by the occupant & to be electronically monitored & maintained.
		R314.4 replaces R 313.3 and says that smoke alarms shall be interconnected. It also takes away a section from the old ruling & replaces it with 2 exceptions.	

D215 Or the Manager Handler			
R315 Carbon Monoxide Alarms Addition: Carbon monoxide alarms in new dwellings & in existing dwellings are required when work requiring a permit takes place.		R315.1 states that for new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel fired appliances are installed & in dwelling units that have detached garages. R315.2 states that where work requiring a permit occurs in existing dwellings that have attached garages or in existing dwellings within which fuel fire appliances exist, carbon monoxide alarms shall be provided in accordance with Section R315.1. R315.3 says that single station carbon monoxide alarms shall be listed as complying with UL 2034 & shall be installed in accordance with this code & the manufacturer's installation	
R317.1 Locations for Protection Against Decay Modification: Protection from decay is now required for wood siding & wall framing less than 2 in. above a concrete slab exposed to weather.	See Section R319	instructions. R317.1 replaces 319.1 but with only 1 text change from no. 5 where the new provision is added in.	
R317.3 Fasteners & Connectors in Contact with Treated Wood Modification: The fastener requirements have been expanded to include fasteners & connectors in contact with preservative-treated & fire- retardant-treated wood.	R319.3 says that fasteners for pressure-preservative & fire- retardant-treated wood shall be hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper with 2 exceptions given.	R317.3 replaces R319.3 and says that fasteners and connectors in contact with pressure-treated wood & fire- retardant-treated wood shall be in accordance with this section. It keeps the 2 exceptions the same but does change out 'larger' with 'greater' in the first exception. R317.3.1 states that fasteners for preservative-treated wood shall be hot dipped zinc-coated galvanize steel, stainless steel, silicon, bronze or copper. Coating types & weights for connectors in contact with preservative treated wood shall be in accordance with the connector's manufacturer's recommendations, a minimum of ASTM A 635 type G185 zinc- coated galvanized steel, or equivalent, shall be used. R317.3.2 states that fastenings	Changes to this section related to fasteners & connectors in contact with preservative treated wood intend to clarify the applicable reference standards & the minimum zinc coating weights for galvanized products. The standards are different for fasteners & connectors.

		for wood foundations shall be as required in AF&PA Technical Report No. 7 R317.3.3 states that fasteners for fire retardant treated wood used in exterior applications or wet or damp locations shall be of hot dipped zinc coated galvanized steel, stainless steel, silicon, bronze or copper. Fasteners others than nails & timber rivets shall be permitted to be mechanically deposited zinc- coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum. R317.3.4 says that fasteners for fire Retardant treated wood used in	
		interior locations shall be in accordance with the manufacturer's recommendations. In the absence of the manufacturer's recommendations, Section R317.3.3 shall apply.	
R317.4 Wood/Plastic Composites Addition: A definition & specific requirements for manufactured wood/plastic composites are introduced into the IRC.	Wood plastic composites were used with the approval of the building official under the alternative materials & methods of construction provisions based on available data from the manufacturer & other sources such as ICC Evaluation Services (ES) reports.	R317.4 states that wood/plastic composites used in exterior deck boards, stair treads, handrails and guardrail systems shall bear a label indicating the required performance levels & demonstrating compliance with the provisions of ASTM D 7032.	
R318.1 Subterranean Termite Control Methods Modification: When used for protection against termite damage, pressure-preservative-treated wood must now meet the location requirements for protection against decay in R317 in addition to the AWPA standards.	See R320.1	R318.1 replaces R320.1 with a few minor changes. The definition of naturally resistant wood has been removed from Section R318 & revised definitions for naturally durable wood & termite-resistant material have been placed in Section R202. Steel is now specifically recognized as being termite	Alaska yellow cedar & western red cedar have been included in the list of termite resistant woods.
R319.1 Address Numbers Modification: The IRC now prescribes the minimum size of address numbers & requires a contrasting background for visibility.	See R 321.1	recognized as being termite resistant. R319.1 replaces 321.1. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 4 in. high with a minimum stroke width of ½ in.	
		Where access is by means of private road & the building	

		address cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure.	
R322 Flood Resistant Construction Modification: The code now directly references ASCE 24 for the design & construction of buildings or structures in floodways & coastal high hazard V zones.	See R324.1 where the IRC previously referenced the IBC for design in flood prone areas.	R322.1 replaces R324.1 where the IRC now specifically references ASCE 24. R322.1.1 states that ASCE 24 is permitted in coastal high hazard areas. R322.2 states the flood hazard areas that have been delineated as subject to wave heights between 1.5 ft. & 3 ft. shall be designated as Coastal A Zones. R322.3.2 has added several new provisions in the elevation requirements, but deleted a few as well. The entire code change here is too extensive to be included here. Refer to Code Changes RB48-06/07, RB129- 06/07, RB130-06/07, RB92-07/08, RB93-07/08, RB96-07/08, RB97- 07/08, and RB100-07/08 in the 2009 IRC Code Changes Resource Collection.	The prohibition against fill beneath buildings in high hazard coastal areas was deemed overly restrictive & has been removed.
R323 Storm Shelters Addition: Storm shelters must be constructed in accordance with the new ICC/NSSA-500 Standard on the Design & Construction of Storm Shelters.		Shelters conforming to the ICC- 500 standard are designed to withstand impact from winborne projectiles that are common to high wind events.	
R401.3 Surface Drainage Modification: Where it is not feasible to provide the prescribed fall of 6 in. within the first 10 ft. away from a foundation, the code includes new performance language requiring drainage away from the foundation without prescribing a slope.	The 2006 IRC afforded an alternative to provide a 5% slope adjacent to the foundation & to further direct the surface drainage with swales sloped not less than 2%.	The revised exception provides performance language to achieve surface drainage without specifying minimum slopes. The intent is to allow as moderate a grade as possible to prevent slope instability & erosion & still drain surface water to an approved location. The performance criteria recognizes that the appropriate slope for the lot is a function of the combined ground frost & moisture conditions, soil type, geological conditions, and local geographic conditions. The 2009 IRC maintains the minimum slope provisions of 25 (1/4 in. per ft.) for impervious surfaces within 10 ft. of the building.	

R401.4 Soil Tests Modification: The revised text defines the necessary criteria for requiring a soil test in more objective terms based on available scientific data.	The 2006 language giving authority to require a soil test was deemed subjective & open to various interpretations. At issue was the opening phrase 'in areas likely to have.'	The revised text requires that a determination be based on existing soil maps, test data records, or other documentation with quantifiable data that are based on accepted geotechnical methodologies. When the data exist, the code directs the building official to make a determination of whether to require soil testing or not.	
R402.3 Precast Concrete Foundation Materials Modification: Minimum specifications for materials used in the manufacture of precast concrete foundations have been added to the code.	Approved precast concrete foundations shall be designed & installed in accordance with the provisions of this code and the manufacturer's installation instructions.	The 2009 IRC establishes R402.3.1 that show minimum requirements for the materials used in the manufacture of precast concrete foundations in accordance with Section R404.5.	
R403.1.3.2 Seismic Reinforcing for Slabs-on-Ground with Turned Down Footings Modification: For turned-down footings in Seismic Design Categories (SDCs) D0, D1 & D2, this change clarifies that the exception permitting bars in the middle of the footing depth is an alternative to the top & bottom bar location of horizontal reinforcing in the footing.	The footings generally require a minimum of 1 No. 4 horizontal reinforcing bar continuous at the bottom of the footing. The exception allowed for greater reinforcing – 1 No. 5 bar or 2 No. 4 bars – located in the middle third of the footing depth.	To address the possibility that a code user might infer that reinforcing must be located in the middle third where the footing & slab are monolithic, the new wording clarifies that the exception is an alternative. Where the slab is not cast monolithically with the footing, No. 3 or larger vertical dowels with standard hooks on each end shall be provided in accordance with Figure R403.1.3.2. Standard hooks shall comply with Section R611.5.4.5.	
R403.1.6 Foundation Anchorage Modification: The revision & reorganization of Section R403.1.6 removes redundant language & clarifies the anchorage requirements for wood sill & sole plates resting on concrete & masonry foundations.	When braced wall panels are supported directly on continuous foundations, the wood sill plate or cold formed steel bottom track shall be anchored to the foundation in accordance with this section.	The code no longer allows wood plate anchorage to brick or solid masonry foundations. Anchor bolts must be placed in concrete or in the grouted cells of hollow concrete masonry units (CMUs). The bolting requirement for cold- formed steel bottom track has been removed in favor of references to applicable requirements for cold-formed steel framing. This deletion does not lessen the anchorage requirements for cold-formed steel framing. The applicable sections of R505.3.1 & R603.1.1 are still reference for the anchorage requirements for cold- formed steel framing systems. In addition, such systems must conform to the requirements of AISI S230.	It is important to note that this section applies to anchorage of wood sill & sole plates to continuous foundations.

R403.4 Footings for Precast Foundations Addition: Prescriptive requirements for crushed stone footings supporting precast concrete foundations are now included in the code.		R403.4 Footings for precast concrete foundations shall comply with Section R403.4. R403.4.1 Clean crushed stone shall be free from organic, clayey, or silty soils. Crushed stone shall be angular in nature & meet ASTM C 33, with the maximum size stone not to exceed ½ in. & the minimum stone size not to be smaller than 1/16 in. Crushed stone footings for precast foundations shall be installed in accordance with Figure R403.4 (1) & Table R403.4. Crushed stone footings shall be consolidated using a vibratory in maximum of 8 in. lifts. Crushed stone footings shall be limited to Seismic Design Categories A, B, & C. R403.4.2 Concrete footings shall be installed in accordance with Section R403.1 & Figure R403.4	Crushed stone footings for precast concrete foundations are not allowed for building sites in Seismic Design Categories D0, D1, & D2. Requirements for concrete footings supporting precast concrete foundation walls match those for masonry & cast-in-place concrete foundation walls.
Tables R404.1(1) through R404.1(3) Deletion: The prescriptive lateral restraints provisions for the top of concrete & masonry foundation walls based on soil type, height of wall, and unbalanced backfill height have been removed from the code.		(2).	Deletion of these lateral restraint provisions brings the 2009 IRC into agreement with the 2000 & 2003 editions. Proponents of removing the top of foundation wall lateral restraint provisions reasoned that the traditional prescriptive provisions for anchor bolts & floor systems connections have performed well for many years without substantiated problems or failures.
R404.1 Concrete & Masonry Foundation Walls Modification: The technical provisions for concrete foundation walls have been substantially revised & are now separated from the masonry foundation provisions.	See 404.1 – in the 2006 IRC, the tables for removable form concrete walls required a yield strength of 60,000 psi (Grade 60) reinforcing steel, and the tables for ICF walls required 40,000 psi (Grade 40) steel	The prescriptive concrete provisions for Section 404.1 are based on PCA 100. The tabular values for vertical reinforcement are revised to reflect changes to the referenced standards ACI 318 & ASCE 7. In addition to the provisions of the referenced standards ACI 318 & ACI 332, PCA 100 is referenced as another option for alternate design of concrete foundation walls that are beyond the scope of prescriptive provisions of the IRC.	The 2009 IRC revises the prescriptive concrete foundation wall requirements to reflect the provisions of the new referenced Portland Cement Association standard PCA 100 Prescriptive Design of Exterior Concrete Walls for 1-2 family dwellings.

R40.5 Procest Concreto R40.5 Procest Concreto R40.5 Procest Concreto Foundation walls. R40.5 Procest Concreto R40.5 Procest Concreto R40.5 Procest Concreto R40.5 Procest Concreto R40.5 Concreto R40.5 Procest Concreto R40.5 Procest Concreto R40.5 Concreto R50.10 Million Million Million R40.5 Procest Concreto R40.5 Concreto R61.5 Procest Concreto R40.5 Concreto R40.5 Concreto R61.5 Procest Concreto R40.5 Procest Concreto R40.5 Concreto R61.5 Procest Concreto R40.5 Procest Concreto R40.5 Concreto R61.5 Procest Concreto R40.5 Procest Concreto R40.5 Concreto Foundation Walls Addition: R40.5 Procest Concreto R40.5 Procest Concreto Foundation Walls Addition: R40.5 Procest Concreto R40.5 Procest Concreto Foundation Walls Addition: R40.5 Procest Concreto R40.5 Procest Concreto Foundation Walls R40.5 Procest Concreto Construction in Section		more comprehensive. New	
R404.5 Precast Concrete Foundation Walls Addition: This new section in the IRC requirements for concrete foundation walls.The iRC now specifies the material & placement requirements also specify approved materials for forms & form ties.The minimum performance design criteria in Section R404.5 - the design & manufacture of precast concrete foundation walls Addition: This new section in the IRC requirements of Section R402.3 or ACI 318. The panel design or ACI 318. The panel design drawings shall be prepared by a registered design professional where required by the statutes of the project is to be constructed in accordance with Section R106.1.The minimum performance design contents of providing neutral & nonproprietary requirements.R404.5.2 - precast concrete foundation walls.R404.5.2 - precast concrete foundation in which the project is to be constructed in accordance with Section R106.1.R404.5.2 - precast concrete foundation. Drawings shall be submitted to the building official & approved prior to installation. Drawings shall be submitted Loads & their points of application. Soli- Bearing Capacity. Maximum Allowable Total Uniform Load, Selsmic Design Category, andThe minimum performance design category, and		cover, and continuity of reinforcement, lap splices & standard hooks, and installation of construction joints. The provisions also incorporate technical requirements for constructing concrete stem wall foundations not presently in the code. The vertical reinforcement tables for both removable form concrete walls & ICF walls are now based on reinforcement steel with a yield strength of 60,000 psi (Grade 60). However, a new table provides more flexibility for the use of different bar sizes or grades of steel than specified in other	
R404.5 Precast Concrete Foundation Walls Addition: This new section in the IRC requires engineering & sets designs & labeling requirements for precast foundation walls. The minimum performance design & manufacture of precast concrete foundation wall panels shall comply with the materials requirements of Section R402.3 or ACI 318. The panel design drawings shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed in accordance with Section R106.1. The minimum performance design & Mator or exclude any specific system, providing neutral & nonproprietary requirements. R404.5.2 – precast foundation walls. R404.5.2 – precast concrete foundation wall design drawings shall be submitted to the building official & approved prior to installation. Drawings shall include Design Loading, Footing Design, Concentrated Loads & their points of application, Soil- Bearing Capacity, Maximum Altowable Total Uniform Load, Seismic Design Category, and		tables. The IRC now specifies the material & placement requirements for concrete mixing, delivery, aggregate size, proportioning, slump & consolidation (vibration). New requirements also specify approved materials for forms &	
R404.5.3 – precast concrete foundation wall panels shall be	Foundation Walls Addition: This new section in the IRC requires engineering & sets designs & labeling requirements for precast	R404.5 – the design & manufacture of precast concrete foundation wall panels shall comply with the materials requirements of Section R402.3 or ACI 318. The panel design drawings shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed in accordance with Section R106.1. R404.5.2 – precast concrete foundation wall design drawings shall be submitted to the building official & approved prior to installation. Drawings shall include Design Loading, Footing Design, Concentrated Loads & their points of application, Soil- Bearing Capacity, Maximum Allowable Total Uniform Load, Seismic Design Category, and Basic Wind Speed. R404.5.3 – precast concrete	design criteria in Section R404.5 do not favor or exclude any specific system, providing neutral &

		inspection label issued by an approved 3 rd party inspection agency.	
R405.1.1 Precast Concrete Foundation Drainage Addition: Drainage pipe must be installed a minimum of 1 ft. beyond the edge of a wall to preserve the integrity of the effective bearing surface of the crushed stone footing.		R405.1.1 – precast concrete walls that retain earth & enclose habitable or useable space located below grade that rest on crushed stone footings shall have a perforated drainage pipe installed below the base of a wall on either the interior or exterior side of the wall, at least 1 ft. beyond the edge of the wall. If the exterior drainage pipe is used, an approved filter membrane material shall cover the pipe. The drainage system shall discharge into an approved sewer system or to daylight.	The type & location of the drainage pipe is instrumental in preserving the bearing capabilities of the crushed stone footing.
R406.4 Precast Concrete Foundation System Dampproofing Addition: Precast concrete basement foundations require panel joints to be filled & sealed and the exterior below-grade surface to be dampproofed to prevent water intrusion into the below grade space.		R406.4 – except where required by Section R406.2 to be waterproofed, precast concrete foundation walls enclosing habitable or useable spaces located below grade shall be dampproofed in accordance with Section R406.1. R406.4.1 – precast concrete foundation panel joints shall be sealed full height with a sealant meeting ASTM C 920, Type S or M, Grade NS, Class 25, Use NT, M, or A. Joint sealant shall be installed in accordance with the manufacturer's installation instructions.	
R407.3 Steel Columns Clarification: Steel Columns must be fabricated or not less than 3 in. diameter Schedule 40 pipe.	The columns shall be restrained to prevent lateral displacement at the bottom end. Wood columns shall not be less than in nominal size than 4x4 in. and steel columns shall not be less than 3 in. diameter standard pipe or approved equivalent.	The new reference to Schedule 40 pipe manufactured in accordance with ASTM A 53 Grade B clearly defines the wall thickness & strength properties required for steel pipe columns. The code still recognizes other steel columns that provide equivalent performance characteristics.	The previous reference to standard pipe for steel columns became unfamiliar to inspectors over time, resulting in a perceived inconsistent application of the requirement.
R408.1 & R408.2 Underfloor Space Ventilation Modification: This change re-establishes a provision found in the 2003 IRC for reducing the require net area of ventilation openings to 1/1500 of the underfloor area where the ground is covered with a vapor retarder.	See R408.1 - the 2006 IRC deleted a provision for reduced ventilation of crawl space where a vapor retarder covered the ground of the crawl space.	R408.1 – the minimum net area of ventilation openings shall not be less than 1 sq. ft. for each 150 sq. ft. of underfloor space area, unless the ground surface is covered by a Class I vapor retarder material. When a Class I vapor retarder material is used, the minimum net area of ventilation openings shall not be less than 1 sq. ft. for each 1500 sq. ft. of underfloor space area.	Polyethylene sheeting is the most commonly used material to satisfy the requirement of Class I vapor retarder.

		R408.2 – openings for underfloor ventilation now includes the exception that the total area of ventilation openings shall be permitted to be reduced to 1/500 of the underfloor area where the ground surface is covered with an approved Class I vapor retarder material & the required openings are placed so as to provide cross ventilation of the space. The installation of louvers shall not be prohibited.	
R502.2.2.1 & Table 502.2.2.1 Table Deck Ledger Addition: Prescriptive methods for securely attaching a wood deck to the dwelling structure are now included in the IRC.	Other than performance requirements that floors be capable of accommodating all loads & the deck provisions of Section R502.2.2, the 2006 IRC contained no specific methods for attaching a deck to the structure.	R502.2.2.1 prescribes support specifications for deck ledger connections to band joist & all lag screws, bolts & washers shall be hot-dipped galvanized or stainless steel. R502.2.2.1.1 the lag screws or bolts shall be placed 2 in. from the bottom or top of the deck ledgers & between 2- 5 in. from the ends. The lag screws or bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger. R502.2.2.2 deck ledger connections not conforming to Table R502.2.2.1 shall be designed in accordance with accepted engineering practice. R502.2.2 shall be permitted to be in accordance with FigureR502.2.2.3.	
R502.7 Lateral Restrain for Wood Joists Clarification: New text clarifies that installation of engineered wood products including lateral support to prevent rotation is determined by the installation instructions of the manufacturer.		502.7 adds the new exception that trusses, structural composite lumber, structural glued-laminated members & I- joists shall be supported laterally as required by the manufacturer's recommendations.	The prescribed lateral support requirements are intended to apply only to solid-sawn lumber joists. The 2009 IRC clarifies that the requirements do not apply to engineered wood products such as plate- connected trusses, I-joists, glued-laminated lumber & structural composite lumber.

R505 Cold Formed Steel Floor Framing Modification: The prescriptive provisions of cold-formed steel framing now apply to 3 story buildings. This section has been reorganized & modified to clarify the application of the code. New provisions, tables & figures provides more options for the design & construction of dwellings using the prescriptive cold- formed steel framing provisions.	2006 IRC had prescriptive provisions of cold-formed steel framing for up to 2 story buildings.	Section R 505 has undergone significant revision & updating to incorporate provisions of the new American Iron and Steel Institute (AISI) Standard for Cold-Formed Steel Framing – Prescriptive Method for 1-2 Family Dwellings (AISI S230-2007). The most notable change is in the scope of application where the the height limitation has increased from 2 story to 3 story buildings, consistent with the height limits of conventional wood frame construction. Terminology has been updated throughout the text to reflect current usage by industry & to provide consistency in the code. Many minor modifications improve the organization, clarity & usability of the code provisions. In general the revisions provide m more options for the design & construction of dwellings using the prescriptive cold formed steel framing provisions.	The tolerances for floor joists located in line with cold- formed steel studs have been revised to account for the special case of the bearing stiffener located on the back side of the joist. Provisions concerning web holes & the web hole adjustments have been modified & placed into 1 location. The code user now has the choice to reinforce nonconforming holes, or design nonconforming holes, or design nonconforming holes, or design nonconforming holes in accordance with accepted engineering practice. Provisions for joist bracing & blocking have been divided into 4 distinct sections. 4 tables have been added detailing the design of clip angle bearing stiffeners in order to permit more options for the builder.
Table 602.3(1) Fastener Schedule for Structural Members Modification: Table R602.3(1) has been reorganized & updated to reflect currently accepted industry standards & manufacturer's recommendations.		The fastening requirements for solid-sawn lumber framing members in R602.3(1) have been reorganized into 4 categories related to roof, wall, floor & beam/girder locations, and each condition has been given an item number. The fastening requirements for ceiling joist & rafter tie connections to rafters have been deleted because these connection requirements appear in Table R802.5.1.9, Rafter/Ceiling Joist Heel Joint Connections. The sheathing fastener schedule has been updated to reflect current industry recommendations & commonly used or available materials. Common nails are not recommended for attaching gypsum sheathing. The prescribed fastener spacing at the edges & in the field of gypsum sheathing panels is now 7 in. & matches the attachment	The new format makes it easier to locate appropriate nailing requirements.

		requirements for gypsum board used as wall bracing.	
		Wood structural panels with a thickness of 5/16 in. are no longer commonly available or used in construction. The minimum thickness of wood structural panels recognized in Table 602.3(1) is now 3/8 in.	
R602.3 & Table R602.3(3) Wood Structural Panel Wall Sheathing Used to Resist Wind Pressures Modification: The component & cladding wind load requirements of Section R301.2.1 & Table R301.2(2) are now referenced in Section R602.3.	Table 602.3(3) provided the minimum thickness of wood structural panels attached to studs 16 in. & 24 in. on center based on the panel floor & roof span rating. Wood structural panel fastening requirements were located in Table 602.3(1).	Wood structural panels used as exterior wall sheathing must comply with the new Table 602.3(3), which now establishes minimum requirements for fastening, panel thickness, span ratings & stud spacing based on designed wind speed & wind exposure category.	Because the changing language of Section R602.10 applies to all exterior walls regardless of the exterior wall type covering type, the reference to the wall bracing section for foam plastic sheathing was considered unnecessary & has been deleted from Section R602.3.
Table 602.3(5) Size, Height & Spacing of Wood Studs Modification: A habitable attic, a new defined term in 2009 IRC, is treated the same as a typical roof & ceiling forming an attic in determining wood stud size & spacing in Table R602.3(5).		Placement of habitable attics in the wood stud table clarifies that wood studs of a size, height & spacing adequate for carrying a roof & ceiling also are adequate for supporting a habitable attic.	Footnote d places a limitation of 32 ft. for the roof span when using 2x4 studs to support a habitable attic. For greater roof spans, the code requires not less than 2x6 studs or an engineered design.
R602.6.1 Drilling & Notching Top Plate Modification: When a metal tie is required across the opening of a notched or drilled top plate, the tie must now extend at least 6 in. beyond each side of the opening	At least 16d nails were required to fasten the tie on each side of the opening & the minimum length of the tie was not specified.	To reduce the possibility of splitting the wood plate, the length of the nails used to attach the metal tie has been reduced from 3 ½ in. to 1 ½ in & a tie of sufficient length to extend at least 6 in. beyond the opening on each side is now prescribed.	Though a 10d nail is 3 in. long, the intent of this change is that1 ½ in. long nails with a diameter equivalent to 10d common nails (.148 in.) provide adequate shear capacity & satisfy the requirement.
		Nails must have a minimum diameter of .148 in.	
R602.10 Braced Wall Lines & Braced Wall Panels Modification: The wood frame wall bracing provisions of Section R602.10 have been entirely rewritten to provide technical accuracy & clarity	IRC 2006 definitions were circular in that they used the other term in the definition – a braced wall line was a series of braced wall panels & a braced wall panel was a segment of a braced wall line.	The code no longer differentiates between exterior & interior braced wall lines. The terms braced wall line & braced wall panel are more precisely defined.	Many of the changes are the result of work by the ICC Ad Hoc Committee on Wall Bracing including engineering analysis of the prescriptive methods used to resist lateral seismic & wind forces.
clarity.	It distinguished between exterior & interior braced wall lines. This led some to believe that the interior braced wall lines had to begin & end inside the building.	By introducing the term intermittent bracing to define the use of isolated wall panels within a braced wall line, the code now clearly distinguishes the 3	In a structural sense, all braced wall lines act in the same way regardless where they are located.
	The code was silent on mixing various types of bracing methods on the same building, though the practice of mixing methods was very common.	separate paths for compliance with the bracing requirements – the prescriptive methods using intermittent braced wall panels or continuous wall sheathing, or bracing in accordance with an engineered design.	By inserting the exemption from R301.2.2 (Seismic requirements) into the beginning of Section R602.10. the code clarifies the application of wall bracing provisions for 1-2 family

		The code now also specifically allows mixing of methods between stories & from one wall line to the next. Different bracing methods are also permitted within the same wall line in SDCs A, B, & C only.	dwellings. 1-2 family dwellings located in SDC C need only comply with the requirements for buildings located in SDCs A & B, which have no seismic requirements.
R602.10.1.2 Length of Wall Bracing Modification: Lateral bracing requirements related to wind loads & seismic loads have been placed in separate tables. The greater tabular value from the 2 tables based on the building location applies.	The amount of bracing was expressed as a percentage of the braced wall line.	The amount of bracing is now expressed as length in feet. After all adjustments are made, the minimum total length of bracing in a braced wall line must be at least 48 in. Seismic loading is predominantly proportional to the length of the braced wall line, but the wind loading is proportional to the wall line spacing, the height of the walls, and the height of the roof relative to the eaves. Accordingly values in the seismic table are function of braced wall line length, and values in the wind table are a function of braced wall line spacing. R602.10.1.2 clarifies that for other than angled walls, only wall panels parallel to the braced wall line count in satisfying the amount of bracing requirements. Where exterior braced wall panels are subjected to wind uplift, connections must be provided unless the weight of the wall above offsets the wind uplift forces. When the net uplift at the bottom of wall exceeds 100 plf, connections such as straps must be provided from story-to-story to provide a complete load path from the roof to the foundation.	Walls perpendicular to the braced wall line do not count toward the bracing amount required in the direction of the braced wall panels that are subjected to wind uplift. Values in the wind table are based on an assumed 10 ft. high wall for each story & 10 ft. height between the eave & ridge of the roof. A footnote to the wind bracing table permits the required bracing length for methods other than let-in-bracing in 1 story or the top story of 2 or 3 story buildings to be reduced when tie down devices are provided at braced wall panels.
R602.10.13 Angled Corners of Braced Wall Lines Addition: This new section allows angled wall segments to contribute to the amount of wall bracing in a braced wall line.		This change permits angled walls up to 8ft. long & no more than 45 degrees out of plane of the braced wall line to be included in the amount of required bracing.	
R602.10.1.4 Braced Wall Panel Location Modification: The location requirements for braced wall construction are now grouped together in a	The 2006 IRC permitted a maximum inset distance to 12.5 ft. from both ends of a braced wall line, provided the amount of bracing satisfied the percentage	The 2009 IRC limits the combined total inset distance to 12.5 ft. while still allowing inflexibility to inset a panel a distance of 12.5 ft. from 1 end.	The change is a result of concerns that 1 4ft. braced wall panel installed in the center of a 25ft. long braced wall line would not provide

single section & adds several	requirements.		adequate bracing even if it
figures.		New text clarifies that all of the braced wall panels are allowed to be offset 4 ft. from the line that establishes the braced wall line & the total out-to-out offset of brace wall panels is not more than 8 ft.	satisfied the minimum bracing length requirements.
R602.10.1.5 Braced Wall Line Spacing for Seismic Design Categories D0, D1 & D2 Modification: This change expands the exception to permit wall line spacing of 35ft. for buildings in Seismic Design Categories D0, D1 & D2 subject to adjustment factors to provide an amount of bracing adjusted to be equivalent to the 25ft. spacing requirements.	R602.10.11.1 the 2006 IRC permitted an increase to 35ft. braced wall line spacing for only 1 large room not exceeding 900 sq. ft.	R602.10.1.5 replaces & modifies the 2006 R602.10.11.1. The new exception allows spacing up to 35ft. throughout the building by increasing the amount of braced wall panels in the braced wall line. This exception also places limits on length-to- width ratio for the roof and floor diaphragms to ensure lateral loads are adequately transferred to the braced wall lines & increases the fastening for top plate splices to account for the increased span of the diaphragm.	The change does not reduce the seismic resistance but allows the same building plans to be used in Seismic Design Categories D0, D1 & D2 as are used in Seismic Design Category C when the appropriate bracing adjustments are applied.
R602.10.2 Intermittent Brace Wall Panel Construction Methods Modification: The bracing methods of the 2006 IRC listed as types 1-8 & the 2 alternate braced wall panel methods have been grouped into 1 table & given a 2-3 letter abbreviation to make the section more user friendly.		The code now uses the term 'intermittent' to describe bracing methods utilizing isolated braced wall panels & to clearly differentiate these methods from continuous sheathing methods. The intermittent bracing methods are now placed in tabular format with a description, illustrative icon & connection criteria. R602.10.2 the construction of intermittent braced wall panels shall be in accordance with 1 of the methods listed in Table 602.10.2 R602.10.2.1 intermittent <i>braced</i> <i>wall panels</i> shall have gypsum wall board installed on the side of the wall opposite the bracing material. Gypsum wall board shall be not less than 1/2 in. in thickness & be fastened in accordance with Table R702.3.5 for interior gypsum wall board. Exceptions: 1. Wall panels that are braced in accordance with methods GB, ABW, PFG & PFH. 2. When an <i>approved</i> interior finish material with an in-plane shear resistance equivalent to gypsum board is installed. 3. For methods DWB, WSP, SFB, PBS, PCP & HPS, omitting gypsum wall board is permitted	The new tabular format is intended to make it easier for code users to understand the options available. The reorganization & labeling intend to clarify the prescriptive bracing provisions & the 2 distinct paths for compliance – intermittent & continuous methods – to promote more consistent application.

R602.10.3 Minimum Length of Brace Wall Panels Modification: The code now recognizes braced wall panels less than 48 in. but not less than 36in. in length in Seismic Design Categories A,B & C.	R602.10.4 was inconsistent in terminology, expressing such braced wall panel measurements as width, length or percentage of the braced wall line.	provided the length of bracing in Tables R602.10.1.2(1) & R602.10.1.2(2) is multiplied by a factor of 1.5. The prohibition of adhesive attachment of wall sheathing in Seismic Design Categories C, D0, D1 & D2 is relocated from Section 602.10.11.5 of the 2006 IRC. R602.10.3 replaces & modifies the 2006 R602.10.4. The amount of bracing is now expressed as the minimum total length of braced wall panels measured in the direction of the braced wall line. In most cases, the length of the braced wall panel in the 2009 IRC is equal to the actual length of the braced wall panel in the horizontal direction, provided it is not less than 48 in. The added text in Section R602.10.3 mirrors the footnotes of the referenced tables in advising that the amount of gypsum board required by the	For intermittent braced wall panels using methods other than in-bracing & gypsum board, the code now recognizes that panels less than 48in. in length contribute to the bracing of buildings. For braced wall panels not less than 36in. in length in Seismic Design Categories A, B & C, the new partial credit allowance maintains the bracing strength requirements while providing some flexibility. There is no partial credit for panels less than 48in. in length on 10ft. high walls or
R602.10.3.2 Method ABW – Alternate Braced Wall Panels Modification: A new figure replaces much of the text in this section to more clearly illustrate the construction details for alternate braced wall panels, now described as bracing method ABW.	R602.10.6 alternate braced wall panels shall be constructed in accordance with Sections R602.10.6.1 & R602.10.6.2.	applicable table must be doubled when gypsum board is applied to only 1 side. R602.10.3.2 replaces & modifies the 2006 R602.10.6. The construction details for minimum materials, concrete reinforcement, hold-downs, anchoring, fastening & splicing are more clearly illustrated in drawing form rather than detailed code language. Much of the text of this section has been deleted in favor of the new figure without making technical changes to the	panels less than 42in. in length on 9ft. high walls. Alternate braced wall panel construction (ABW), is 1 of the more complicated provisions in the wall bracing section. Other editorial changes to this section reflect the preferred terminology in an effort to provide accuracy & consistency.
R602.10.3.3 Method PFH – Portal Frame with Holds-Down Modification: The alternate bracing method for a braced wall panel adjacent to a door or window opening, typically used at large overhead garage door openings, is now known as portal frame with holds-down (Method PFH).	R602.10.6.2 Alternate Braced Wall Panel Adjacent to a Door or Window Opening.	method of construction. R602.10.3.3 replaces & modifies the 2006 R602.10.6.2. The braced wall segments in Figure R602.10.6.2 are now labeled as 'portal frames,' a term that more accurately describes the configuration, prompting a change to designate this method of bracing as portal frame with holds-down (Method PFH). The text describing the materials & connection details has been deleted in favor of Figure	As with alternate braced wall panels (ABW), bracing method PFH provides equivalent strength to standard 48in. braced wall panel through very specific reinforcing & connection details. The lengthy text describing those details was viewed as cumbersome & confusing and has been deleted in favor of the line drawing illustration.

		R602.10.3.2 for illustrating this method of bracing construction.	
		There is a minor revision which clarifies that 2 anchor bolts are required at the portal frame panel.	
R602.10.4 Continuous Sheathing Modification: The code now recognizes the practice of mixing intermittent bracing methods with the continuous sheathing method. The continuous sheathing method of bracing has undergone extensive revision & expansion to provide more flexibility in the design of & construction of dwellings.	R602.10.5 Length Requirements for Braced Wall Panels in a continuously sheathed wall did not clearly explain that continuous sheathing was a separate path from isolated wood structural panels for compliance with bracing provisions. Table R602.10.5 computed the panel length required based on the height of the adjacent door or window & the applicable maximum height to length aspect ratio.	 R602.10.4 replaces & modified the 2006 R602.10.5. In an effort to clearly differentiate intermittent from continuous bracing methods, the continuous sheathing provisions are no longer tied to wood structural panel bracing method WSP (formerly method 3). Table R602.10.5 has been deleted & the minimum total length of braced wall panels for continuous sheathing appears in the applicable column of either Table R602.10.1.2(1), when wind controls, or Table R602.10.1.2(2), when seismic controls. The tabular value is no longer based on adjacent opening heights expressed as a percentage of wall heights. Amounts of required bracing are expressed as the length of braced wall panels in feet rather than a percentage of the braced wall line. The expanded Section R602.10.4 established 3 separate & distinct methods for bracing with continuous sheathing & assigns to the table for intermittent sheathing methods. The alternates for wood structural panel adjacent to garage openings (CS-G) & continuous portal frame (CS-PF) were developed from the footnotes that appeared in the 2006 IRC Table R602.10.5. Section 602.10.4 requires continuous wood structural panel sheathing on all sheathable surfaces on 1 side of braced wall lines of exterior walls. This change permits other bracing methods to be used at other braced wall lines at any story. 	The entire code change is rather extensive so refer to the 2009 IRC Code Changes Resource Collection for the complete text & history of the code changes related to Section R602.10. In SDC A, B & C where the basic wind speed is less than or equal to 100 mph, the code permits mixing of methods in the same story & from story to story. When using the continuous sheathing method in Seismic Design Categories D0, D1 & D2, or where the wind speed exceeds 100 mph, mixing is not permitted on the same story. When using the continuous portal frame method, the total amount of bracing in the braced wall line must still meet the applicable tabular values for continuous wall sheathing.

R602.10.6 & R602.10.7 Braced Wall Panel Connections & Support Modification: Requirements for braced wall panel connection to wood framing have been revised & the code now recognizes masonry stem wall construction for supporting braced wall panels & prescribes reinforcing when those walls are 48 in. or less in length.	Masonry stem walls were not addressed in relation to bracing in previous editions of the IRC. In particular, the absence of language addressing portal frame panels supported masonry stem walls, as sometime occur at garage doors & slab on grade conditions, has resulted in inconsistent application of the code.	in. wood structural panel on both sides of the corner at each end of the continuously sheathed braced wall line. A hold down device with a capacity of 800 lbs. installed on the corner stud of the end panel of the braced wall line that provides overturning restraint is permitted to substitute the 24in. corner return segment that is perpendicular to the braced wall line. R602.10.6 Braced wall panels shall be connected to floor framing or foundations as follows: 1. Where joists are perpendicular to a <i>braced wall panel</i> above or below, a rim joist, band joist or blocking shall be provided along the entire length of the <i>braced wall panel</i> in accordance with Figure R602.10.6(1). Fastening of top & bottom wall plates to framing, rim joist, band joist and/or blocking shall be in accordance with Table R602.3(1). 2. Where joists are parallel to a <i>braced wall panel</i> above or below, a rim joist, end joist or other parallel framing member shall be provided directly above & below the <i>braced wall panel</i> in accordance with Figure R602.10.6(2). Where a parallel framing member cannot be located directly above & below the panel, full-depth blocking at 16 in spacing shall be provided	The new connection details apply to buildings located in SDC D0, D1 or D2 or areas with wind speeds of 100 mph or greater, or when the roof member heel height exceeds 91/4in. The change also clarifies that these bracing connection requirements apply to the individual braced all panel segments, not the entire braced wall line. New figures illustrate the connection options to ensure proper installation without compromising the lateral load resisting capacity. New text also recognizes floor joist cantilever conditions to support braced wall panels consistent with the requirements of Section R502 3 3
		R602.10.6(2). Where a parallel framing member cannot be located directly above & below	joist cantilever conditions to support braced wall panels consistent with the

602.10. Required bracing is now measured as length in feet rather than a percentage of the braced wall line & is determined from the wind or seismic table, whichever is greater value.		for determining the total length of bracing to resist the predominant loads from either wind or seismic forces. The 8 types of bracing using isolated braced wall panels & previously represented by numbers are now known as intermittent bracing methods & have been relabeled with short abbreviations. Method WSP now represents wood structural panel bracing replacing the method 3 docimation	
R602.11 Wall Anchoring Clarification: Braced wall panel connections to wood framing at interior & exterior wall locations have been consolidated in the appropriate connections provisions in Section 602.10.6.	R602.11 the framing & connections details of buildings located in Seismic Design Categories D ₀ , D ₁ and D ₂ shall be in accordance with Sections R602.11.1 through R602.11.3.	designation. Section 602.11 now includes only those provisions related to anchorage of the braced wall line to concrete & masonry foundations. As part of the effort to reorganize the all bracing provisions of Sections 602.10 & R602.11, redundant language has been removed & all provisions related to braced wall panel connections to wood framing of floor & roof/ceiling diaphragms are now located in Section R602.10.6 Section R 602.11, Wall Anchorage, consolidates requirements for anchoring the sill plate of the braced wall line to a concrete or masonry foundation. Reorganization of this section clarifies that Section R403.1.6 applies to the sill anchorage of braced wall lines for all buildings in Seismic Design Categories (SDC's) A & B, and for 1-2 family dwellings in SDC C. The anchorage provisions of Section 602.11.1 apply to all buildings in SDCs D0, D1 & D2 and townhouses in SDC C. The stepped foundation provisions related to wall bracing do not apply to buildings sited in SDC A, B, or C.	Changes in this section are consistent with the effort to place seismic provisions in the section where they are applicable to make bracing provisions more user friendly and eliminate the need to thumb back & forth throughout the code to locate requirements.

R603 Steel Wall Framing Modification: Section R603 has undergone extensive revision & expansion to clarify & update the prescriptive provisions for cold-formed steel light frame wall construction. These changes correlate the requirements to those in the new referenced standard AISI S230, Standard for Cold- Formed Steel Framing – Prescriptive Method for 1-2 Family Dwellings, 2007 edition.	R603.1 General elements shall be straight & free of any defects that would significantly affect structural performance. Cold- formed steel wall framing members shall comply with the requirements of this section.	The 2009 IRC expand the scope of the prescriptive methods to include 3 story buildings, an increase from the previous limitations of 2 stories. Section R603 now includes framing details & new header tables for gable end walls intended to clarify the prescriptive methods. All requirements concerning web holes & web hole adjustments are now consolidated in 1 location, clarifying that the code user has the choice to reinforce nonconforming holes, patch nonconforming holes, or design nonconforming holes with accepted engineering practice.	Many new figure have been added to the code to clarify the application of the cold- formed steel framing provisions.
D404.2.8 D404.4 Corbolod	The 2004 IDC prescribed colid	industry standardized thickness for structural members expressed as base steel thickness in mils. Reference Gage Number is no longer used in referencing structural members & has been removed from the table.	Solid maconny units are not
R606.3 & R606.4 Corbeled Masonry Modification: Section 606.3 has been divided into 3 subsections to clarify the masonry corbelling requirements. The code now specifically recognizes masonry units filled with mortar or grout as adequate for corbelling.	The 2006 IRC prescribed solid masonry units for corbelling.	The 2009 IRC change recognizes that corbelled masonry units filled with mortar or grout act the same as solid units in supporting the construction above & distribute the load as effectively as solid masonry units. The requirement to fill the hollow space behind the corbel with mortar or grout has been relocated to the foundation support provisions in Section R606.4.	Solid masonry units are not always available, whereas units filled solid with mortar or grout can be readily made on the job site as they are needed, providing more flexibility to the builder.
R606.12.2.1 & Table R606.12.2.1 Minimum Length of Masonry Walls Without Openings Addition: This change adds prescriptive requirements for minimum lengths of masonry walls to provide wall bracing.	The 2006 IRC did not address minimum lengths of masonry walls to resist lateral loads parallel to the wall.	R606.4. Section R606.12.2.1 & Table R606.12.2.1 add prescriptive masonry wall bracing requirements for high Seismic Design Categories (SDCs). The new provisions apply to above grade masonry wall construction for townhouses located in Seismic Design Category (SDC) C & all building sites in SDC D0, D1, or D2.	The minimum solid wall length along exterior masonry wall lines was developed in part to correlate to the minimum length requirements for insulated concrete form (ICF) walls.
R611 Exterior Concrete Wall Construction Modification: Section R611 has been completely revised to reflect the provisions of the new referenced Portland Cement Association standard PCA	The 2006 IRC Section R612 referenced the design & construction requirements of Section R611 for flat insulated concrete form (ICF) walls or ACI 318 with regard to above ground concrete wall provisions.	The 2009 IRC merges & correlated the conventionally formed concrete wall provisions with those of the ICF walls in the substantially revised provisions of Section R611.	

100 Prescriptive Design of Exterior Concrete Walls for 1-	The applicability limits of Section 611 are generally consistent with
2 Family Dwellings.	the limitations of PCA 100 for
Conventionally formed above	building plan dimensions, height,
ground concrete wall	projections, and dead loads.
provisions have been	Section R611 is limited to
integrated with the insulated	detached 1-2 family dwellings &
concrete form (ICF) wall	townhouses located in SDC A or
requirements.	B, and detached 1-2 family
	dwellings in SDC C.
	The limited provisions for
	concrete walls of buildings in high
	seismic areas that appeared in
	the 2006 IRC have been deleted
	but still appear in PCA 100.
	Townhouses in SDC C & all buildings is SDC D must now
	meet the requirements of PCA
	100 or be designed in accordance
	with ACI 318.
	Deviced figures 8 tobles for
	Revised figures & tables for constructing flat, waffle-grid &
	screen-grid ICF wall systems
	appear in Section R611.5.
	Additional provisions are included
	for constructing these concrete
	walls based on concrete,
	aggregate, and steel reinforcement materials used.
	New provisions govern the
	location, cover & continuity of the
	reinforcement & installation of
	construction joints.
	The prescriptive technical
	provisions for exterior concrete
	walls in R611.6 through R611.8
	have been replaced entirely &
	reflect changes made to ACI 318 & ASCE 7. The new provisions
	cover horizontal & vertical
	reinforcement, reinforcement &
	shear wall (solid wall)
	requirements around openings &
	lintels over openings.
	Section R611.9 has also been
	replaced with the revised details
	for connecting wood & cold
	formed steel framing assemblies to exterior concrete walls.
	The IRC no longer includes
	prescriptive provisions for above
	ground concrete walls in high
	Seismic Design Categories (SDCs).
	Section R612 has been deleted.

R612.2 Window Sills Modification: Changes to Sections R612.2 through R612.4 clarify the child fall prevention alternatives to the minimum window sill height. In the 1 st alternative, window fall prevention device replaces the term 'guard' as the barrier installed at operable windows with sills below 24 in. In the 2 nd option, the code details the performance criteria for opening limiting devices, including provisions for emergency escape & rescue opening.	The 2006 IRC required a 24 in. minimum window sill height when the opening is more than 72 in. above grade & referenced the ASTM F 2006 Standard Safety Specification for Window Fall Prevention Devices for Non- Emergency Escape & Release Mechanisms.	The 2009 change clarifies & updates & expands the information on the alternatives for fall prevention when the sill is lower than 24in. above the floor – installing a barrier or limiting the dimensions of the window opening. With sills lower than 24 in. above the floor, barriers are required at the window opening that does not permit passage of 4 in. diameter sphere. Window fall prevention devices installed on any window must conform to ASTM F 2090, thereby complying with the operation provisions for emergency escape & rescue openings in Section R310. The ASTM F 2006 Standard Safety Specification for Window Fall Prevention Devices for Non-Emergency Escape & Release Mechanisms is no longer referenced.	An opening limiting device installed on any window must have an emergency release device that is clearly identified & that operates without the need for a key, tool, or special knowledge. The code also limits the opening force of the release mechanism.
R613 Structural Insulated Wall Panel Construction Addition: Prescriptive provisions for structural insulated panel (SIP) wall construction have been added to the code in a new Section R613.		The 2009 IRC includes prescriptive provisions recognizing structural insulated panels (SIPs) for exterior & Interior wall bearing construction. Similar to the prescriptive provisions for cold-formed steel framing, SIP wall construction in accordance with R613 is limited to 1-2 story buildings not greater than 40 ft. wide by 60 ft. long with 10ft. wall heights & sited in Seismic Design Categories A, B & C. Maximum design wind speed is 130 mph in Exposure C & maximum snow load is 70 psf. R613 contains prescriptive tables, materials specifications, bracing information & construction details similar to those found in the wood & cold formed steel framing & concrete wall sections of the code. The minimum thickness of SIP for a particular application is determined in accordance with Tables R613.5(1) & R613.5(2) based on building width, design wind speed, snow load & elements being supported.	The new provisions are based on testing using industry developed minimum properties for panels, adhesives & foam density. Tests included axial, shear & transverse loads, all conducted in accordance with the recognized test methods in developing panel capacities.

R703 A Table R703 A Modification: performance requirements for wind resistance networks been added to the water resistance invictors with a watcher resistance invictor wall excludes based added to the water resistance invictors of systems in Section R703.1 The performance requirements for wall excludes a sective wall envelops. Shall be described in Section accumulation of water within the accumulation of water accumulation of water resistance for the action accumulation accumulation of water accumulation of a section R703.2 and means of draining R703.2 and means of draining R703.2 and means of draining accumulation accumates accumulation the exterior. Protection against practices. The water resistance R703.2 and means of draining R703.2 and means of draining R703.2 and means of draining accumulation accumates accumulation accumates accumulation accumates accumulation accumates accumulation accumates R703.7 3 linkets Modification accumates accumulation accumates accumulation accumates accumulation accumates accumates accumates accumates accumates accumates accumates accumat				
Performance requirements resistance traditional envelope. National difference have been broken into 2 systems in Sactione have been broken into 2 subscription in the section valie envelope hall include testing as descripted in Section and Intervention spatients in Section R703.1. Changes to Table R703.4. ament Hai provents the accumulation of water within thou a water water as required by Section R703.2. And a means of draining water that arters the section valie exception spatial a means of draining water that arters the section valie exception agains condensation in the exterior valie exception agains condensation the exterior valie exception agains condensation water exception agains condensation agains condensation agains condensation agains condensation the exterior valies exception agains condensation to setel angle water exception agains condensation the exterior valies exception agains condensation to setel agains condensation agains condensation agains condensation to setel agains condensation to setel again e masonny with brief providical did ther water except				
for wind resistance have senaradied to the water resistance provisions of systems in Section R703. cotoris wall envelope shafting as described in Section R703. The exterior wall covering systems. subscribting of water R wind resistance for water R wind resistance of requirements in this section requirements in this section require				
been added to the water resistance provisions of acterior wall covering systems in Section R703.1. Changes to Table R703.4 Changes to Table R703.4 cardify the water resistive barrier requirements to accumulation of water within the watt assembly by providing a water- resistant barrier behind the exterior various wall covering & clading systems & update the fastening requirements to resistance of all exterior covering systems. In Section R703.1 to reflect current industry practices.	-			
 resistance provisions of construction and constructin and construction and construction and construction and con				
exterior wait covering systems in Socion R703.1. Section R703.1. Charges to Table R703.4. mamer that prevoits the accumulation of water within the walt accumulation of water within the exterior various walt covering a sensibly by providing a water iteristant barrier behind the exterior various walt covering the fastening requirements for various walt covering a sensibly ship tobic in against condensation in the exterior various sensibly ship to provide in accordance with Chapter 11 of this code. The water resistance requirements of Table R201.2(2) a sensibly ship to provide in accordance with Chapter 11 of this code. R301.2(3). The charge to Section R703.3.2 requirements of Table R201.2(2) as recommendated by the manufacturer. The charge to Section R703.3.2 requirements of Table R201.2(2) as recommendated by the manufacturer. The charge to Section R703.3.2 requires lap skilling to be installed as recommendated by the manufacturer. The charge to Section R703.3.2 requires lap skilling to be installed as recommendated by the manufacturer. R703.7.3 Linels Modification R703.7.3 Linels Masonry -veneer has been charge to the skinecture with the code prescribed metal likes. Other charges included fastening requirements for wood structure panet above now includes panet above provides an skill hor to be structure panet above now includes panet above now includes panet above now includes panet above nor skills panet above nor worker dava the along of the base of the along b				
systems in Section R703.1. Changes to Table R703.4. clarify the water resistive barrier requirements for various wall covering & barrier requirements for various wall covering a support the fastening requirements to reflect current industry practices.	-		exterior wai covering systems.	
Changes to Table R703.4 clarify the valer resistive barrier requirements of various wall covering & cladding systems & update the fastening requirement industy practices.accumulation of valer within the valer various station in the exterior protection against condensation in the exterior protection against exterior in t			The water resistance	
 clarify the water resistive barrier requirements for versions & update the electric burde to be the date the electric covering & assembly by providing a water-resistive to reflect current industry practices. assembly by providing a water-resistive barrier behind the exterior wall assembly shall be provided in accordance with Chapter 11 of this code. The change to Section R703.3.2 requires laps to a water resistive barrier behind the exterior wall component & clading wind Lad requirements of a water resistive component & clading wind Lad requirements of a water resistive barrier behind measuring. R703.7.3 Lintels Modification: R703.7.3 Lintels Modification: protection gains to another of a subtractiver's rest of a water resistive parameter in the data load of the vener above openings shall be supported on industry a manufacturer's recommendations. For supporting veneer above openings shall be supported on industry manufacturer's recommendations for subtractive prescriptive openings shall be supported on industry a manufacturer's recommendations for subtractive prescriptive openings shall be supported on industry and manufacturer's recommendations for subtractive prescriptive and supporting veneer above openings shall be supported on industry and support rescriptive protection gains to consistence of rescriptive protection industry and manufacturer's recommendations for subtractiver's recommendations a set reguires of rust & protect the index of constraints of rust & protect the index of rust & protect the index set of rust in Table R703.7.3.1. Reverative p		•		
barrier requirements for various wall covering & clading systems & update the fastening requirements in to reflect current industry practices.resistant barrier behind the exterior veneer as required by Section R03.2.2 and a means of draining wate that enters the assembly to he exterior. Protection against condensation in the exterior in values assembly shall be provided in accordance with Chapter 11 of this code.20.12 growides a testing & analysia of wind pressure estination and the exterior in values assembly shall be provided in accordance with Chapter 11 of this code.20.12 growides a testing & analysia of wind pressure estination and the exterior in values assembly shall be provided in accordance with Chapter 11 of this code.20.12 growides a testing & analysia of the R301.2(2) & R301.2(3)R703.7.3 Lintels Modification: Steel lintels supporting veneer above openings now require a against corrosion. The shall not support any vertical load intert on the subarter supporting veneer above. Veneer above openings now require a against corrosion. The shall not support any vertical load intert supporting veneer above. Veneer above openings now require a alternative prescriptive prenor other protection against corrosion. The supporting veneer above. Veneer above openings now require a alternative prescriptive prenor other protection against corrosion. The alternative prescriptive provides an alternative prescriptive provides an alternative prescriptive provides an alternative prescriptive provides and alternative prescriptive provides an	ů.			
various will covering & cladding systems & update to reflect current industry practices.veneer as required by Section R703.2. and a means of draining condensation in the exterior Protection against condensation in the exterior will code.analysis of wind pressure resistance of all exterior covering years and references the component & cladding wind load requirements of Table R30.2.(2) & R30.2.(3).The change to Section R703.3.3.7 requires laps singling to be installed as scromby shall be provided in accordance with Chapter T1 of this code.and references the component & cladding wind load requirements of Table R30.3.(2) & R40.2.(3).The change to Section R703.3.7 requires laps to the strong veneor with a lin. air space is no longer permitted by Table R703.4. The line titem for stone veneor has been deleted, ther row for thick & masony veneor that is secured to the structure's recommendations & rest reports.R703.7.3 Lintels Modification: passing row require a sholl not support any veneor shall				
The fastering requirements to reflect current industry practices. water that enters the assembly to the exterior. ProteCiano against condensation in the exterior wall ascembly shall be provided in accordance with Chapter 11 of this code. systems, and references the comments & clading wind load requirements of Table R301.2(2) & R301.2(3). The change to Section R703.3.2 requires lag sking to be installed as recommended by the manufacturer. The omission of a water resistive barrier behind masony venere with a 1in. air space is no longer permitted by Table R703.4. The line item for stone weneer has been deleded, the row for bick & masony veneer has been changed to ranchored veneer.' Anchored veneer on wincludes brick, concrete, masony & stone that is secured to the structure with the code prescribed metal ties. Other changes included fastering requirements for wood structure approximations. R703.7.3 Lintels Modification; primer or other protection primer or other protection against corrosion. The 2009 IRC also provides an atternative prescriptive method for supporting veneer above measuring up to 161.3.1.1. height using a combination of a steel angle & masony veneer. R703.7.3.1 the inles shall have a method for supporting veneer above measuring up to 161.3.1.1. height using to lingth of locaring not less than 4 in excert of the structure steel angle veneer above measuring up to 161.3.1.1. height using a combination of a steel angle & masony veneer.		veneer as required by Section		
to reflect current industry practices.the exterior. Protection againsi condensation in the exterior valia accordance with Chapter 11 of this code.component & clading wind load requires lap siding to be installed as recommended by the manufacturer.The change to Section R703.3.2 requires lap siding to be installed as recommended by the manufacturer.The change to Section R703.3.2 requires lap siding to be installed as recommended by the manufacturer.The omission of a water resistive barrier behind masony veneer with a 11 m air space is no longer permitted by Table R703.4. The ine item for stone veneer has been deleted, the row for brick & masony veneer to be structure with the code prescribdor medial ties of inbibitive perings now require as shall not support any vertical bibitive perings row veneer dowe openings shall be supported on intels of inbibitive perings row veneer above meer above measuring up to fan. In inlends shall have alternative prescriptive meend bor supporting veneer above. Veneer above measony weneer above measony weneer above enesing not less than 4 in exceed the va	cladding systems & update	R703.2. and a means of draining	resistance of all exterior covering	
practices. condensation in the exterior wall assembly shall be provided in accordance with Chapter 11 of this code. R R01.2(3). The change to Saction R703.3.2 requires laps close to be installed as recommended by the manufacturer. The change to Saction R703.4.1 The line item for 'stone veneer' has been chelled. there work for bork & masony veneer with a 1in. air space is no longer permitted by Table R703.4. The line item for 'stone veneer' has been changed to 'anchored veneer.' Anchored veneer now includes brick, concrete, masony 2 stone that is supporting masony veneer above openings now require a store above openings now require a that the dead load of the veneer above. Veneer above veneer above veneer above openings now require a that be supported on linetis of noncombustible materials & the allowable span shall not support any veniced the value set forth in Table R703.7.3.1 the illnes shall have a length of bearing not lease shall not support any vertical bear shall not exceed the values set forth in Table R703.7.3.1				
R703.7.3 Lintels Modification: says or requires any studied in accordance with Chapter 11 of this code.& R30.1.2(3).The change to Section R703.3.2 requires lap stiding to be installed as recommended by the manufacturer.The change to Section R703.3.2 requires lap stiding to be installed as recommended by the manufacturer.The omission of a water resistive barrier behind masonry veneer with a fin. air space is no longer permitted by Table R703.4. The line it me for stone veneer thas been deleted, the row for brick & masonry veneer has been changed to anchored veneer.' Anchored veneer.' Anchored veneer and 				
R703.7.3 Linlels Modification: R703.7.3 Linlels Masony - veneer shall not supporting masony veneer above openings now veneer supporting masony veneer above openings shall be supported on linkes of nonombustible materials & he allowable span shall not exceed the values set lorth in Table R703.7.3.1. R703.7.3 Linlels Modification: R703.7.3 Linlels Masony - veneer shall not support any vertical load of the veneer above openings now require a shall not support any vertical load of the veneer above openings shall be supported on links of nonombustible materials. In table R703.7.3.1. R703.7.3 Linlels Modification: R703.7.3 Linlels Masony - veneer shall not support any vertical load of the veneer above openings now require a shall not support any vertical load of the veneer above openings now require a shall not support any vertical load of the veneer above openings now Veneer above openings now Veneer above openings now require a long by a band and the allowable span shall not exceed the values set linked to romabustible materials & he allowable span shall not exceed the values set linked to the linked for supporting to the anony out leas than a linked for normabustible materials & he allowable span shall not exceed the values set linked to the linked for supporting to the anony veneer. R703.7.3.1. The allowable span shall not exceed the values set linked to the linked for supporting to the linked shall be supported on linked of none veneer shall be supported to the stating steel linked labe for spanning ligrap masony veneer above opening such as a cort at vene	practices.			
code:The change to Section R703.2 requires lap siding to be installed as recommended by the manufacturer.The omission of a water resistive barrier behind masony veneer with a 1in. air space is no longer permitted by Table R703.4. The line its the obehind masony veneer has been deleted, the row for brick & masony veneer has been changed to 'anchored veneer.' Anchored veneer is been deleted, ther ow for brick & masony veneer has been changed to 'anchored veneer.' Anchored veneer is soleR703.7.3 Lintels Modification: Steel lintels supporting maginst corrosion. The 2009 IRC also provides a alternative protection a gainst corrosion. The 2009 IRC also provides a alternative prescriptive primer or other protection a gainst corrosion. The 2009 IRC also provides a alternative prescriptive mendous stated any of bearing not less than 4 in.'R703.7.3.1 reservence shall not support on the allowable span shall not exceed the value set ofthin Table R703.7.3.1 reservence above endow measuring not less than 4 in.'R703.7.3.1 reservence shall not support any writical load other than the dead load of the veneer above. Veneer above the allowable span shall not exceed the value set ofthin Table R703.7.3.1 reservence the allowable span shall not exceed the value set ofthin in Table R703.7.3.1 The allowable span shall not supporting where rabove measuring not less than 4 in.'The new section R703.7.3.2 provides a cost effective a laternative prescriptive mesony with horizontal reinforcing.R703.7.3.1 the allowable span shall not exceed the value set ofthin Table R703.7.3.1 the new section R703.7.3.2 provides a cost effective a laternative prescriptive masony veneer de reinforcing <b< td=""><td></td><td></td><td>& R301.2(3).</td><td></td></b<>			& R301.2(3).	
R703.7.3 Lintels Modification: Steel Intels supporting masonry veneer above openings now require andisat corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above opening shall not support and the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the lawable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not support on the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the lawable span shall not against corrosion. The angle & masonry with a line tail not support any vertical line of bearing not less than 4 in the fails in in length using a combination of a steel angle & masonry wener a speed provides and line of bearing not less than 4 in the fails in in length using a combination of a steel angle & masonry wener a speed provides and linet and the stall have all exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel forth in Table R703.7.3.2 intels Masonry were above openings shall hot supported on lintels of norecombustible materials & the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel forth in Table R703.7.3.1 the allowable span shall not exceed the value sel allowable span shall not exceed the value sel forth in Table R703.7.3.2 provides a cost effec		•	The change to Section D702.2.2	
R703.7.3 Lintels Modification: Stop cost of russiphication of a stell angle & maxony vencer with a 1in. air space is no longer permitted by Table R703.4. The line line for 'stone vencer' has been deleted, the row for brick & masony vencer has been changed to 'anchored vencer.' Anchored vencer now includes brick, concrete, masony & stone that is secured to the structure with the code prescribed metal ties. Other changes included fastening R with the code prescribed metal ties. Other changes included fastening requirements for wood structural panel siding & vinyl siding to recorgize current industry & manufacturers recommendations & rest reports.R703.7.3 Lintels Modification: Steel lintels supporting masony vencer above openings now require a shop coat of rust-inhibitive primer or other protection lintels of noncombustible materials & the allowable span shall not exceed the values stel for intels of noncombustible materials & the allowable span shall not exceed the values stel for intels of noncombustible materials & the allowable span shall not exceed the values stel for intels of noncombustible materials & the allowable span shall not angle & masony vencer dograge doors. These prescriptive a method for supporting a combination of a stell angle of bearing not less than 4 in the allowable span shall not angle & masony vencer dograge doors. These prescriptive a masony vencer device data allow allowable span shall not accur at vence data allow site structure attendive to the existing steel linel table for spanning large masony vencer device data angle with masony vencer device data angle with masony vencer device data angle with masony vencer data angle with masony vencer device data angle with masony vencer device data angle with masony vencer device data angle		coue.		
R703.7.3 Lintels Modification: Steel Intels of muscle random veneer above openings now require a shall not supporting masony veneer above openings shall be supported on linted for anochomy shall not exceed the value set forth in Table R703.7.3. The intels shall have a combination of a steel angle & masony vineer & steel infers to inhibiti angle & masony vineer a steel angle & masony vineer a steel angle with masony veneer & steiloridingThe angle & masony vineer a steel angle & masony vineer a steel angle & masony vineer a steel angle with the steel angle with				
R703.7.3 Lintels Modification: Steel lintels supporting reprimer or other protection against corrosion. The 2009 IRC also provides and alternative prescriptive method for supporting uveneer absce method for supporting uveneer absce a combination of a steel angle & masonry with a fin. in in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry -veneer with a fin. air space is no longer permitted by Table R703.4. The line litem for stone veneer is as been deleted, the row for brick & masonry weneer has been changed to 'anchored veneer.' Anchored veneer now includes brick, concrete, masonry & stone litels. Other changes included frastening requirements for wood structural panel siding & vinyl siding to recognize current industry & manufacturer's recommendations & rest reports.R703.7.3 Lintels Modification: Steel lintels supporting up to 181. 3 in. in length using a combination of a steel angle & masonry weneer above wener above wene shall how support any verticed on lintels of noncombustible materials & the allowable span shall hot exceed the values sel forth in Table R703.7.3.1 The allowable span shall not exceed the values sel forth in Table R703.7.3.1 The allowable span shall not exceed the values sel forth in Table R703.7.3.1 The new section R703.7.3.2 provides a cost effective alternative prescriptive method for supporting veneer above wenes/ a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3.1 the new section R703.7.3.2 provides a cost effective alternative prescriptive pervisions combine a steel angle with masonry veneer dering wener abare a occur at wenere angle with masonry veneer derind grage doors. These prescriptive provisions combine a				
R703.7.3 Lintels Modification: gainst corresorion. The acombinative prescriptive method for supporting method for su				
R703.7.3 Lintels Modification: steel lintels supporting masonry veneer bave openings nove require a solution of a steel against corrosion. The retrosion of a steel alternative prescriptive method for supporting veneer above measuring up to 18.1.3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer solution of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer solution of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer solution of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer solution and the supporting solution of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer solution and the support any vertical load of the support any vertical load openings now require a linels of noncombustible materials & the allowable span shall not exceed the value sel forth in Table angle & masonry with horizontal reinforcing.R703.7.3.1 The allowable span shall not exceed the value sel forth in Table and the avalue sel forth in Table angle & masonry with horizontal reinforcing.R703.7.3.1 The allowable span shall not exceed the value sel forth in Table and the avalue sel forth in Table angle & masonry wether and the avalue sel forth in Table angle & masonry wether angle & masonry wether angl			The omission of a water resistive	
Permitted by Table R703.4. The line item for 'stone veneer' has been deleted, the row for brick & masonry veneer has been changed to 'anchored veneer.'Anchored veneer.'Anchored veneer' nas been deleted, the row for brick & masonry veneer has been changed to 'anchored veneer.'Anchored veneer.'Anchored veneer.'Anchored veneer now includes brick, concrete, masonry & stone that is secured to the structure with the code prescribed metal ties. Other changes included fastening requirements for wood structural panel siding & vinyl siding to recognize current industry & manufacturers recommendations & rest reports.R703.7.3 Lintels Modification: structural panel siding vener above openings now require a shall not support any vertical load other than the dead load of the openings now require a steel lintels of noncombustible materials & intels of noncombustible materials & the allowable span shall not exceed the values set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in; veneer above weasuring up to 18ft. 3 in. in length using a combination of a steelR703.7.3.1 The allowable span shall not exceed the values set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in; wener above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.The new section R703.7.3.2 require ments for supporting masonry veneer opening such as occur at overhead garage doors. These prescriptive provisons combine a steel angle with masonry veneer dered agrage doors. These prescriptive			barrier behind masonry veneer	
R703.7.3 Lintels Modification: shop coat of rust-inhibitive primer or other protection against corrosion. The against corrosion. The anethod for supporting a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer shop coat of rust-inhibitive exceed the value set of thin Table R703.7.3. The intels shall how apported on lintels of noncombustible materials & hera above. Veneer above openings now require a shop coat of rust-inhibitive primer or other protection to 181.3 in in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer shop coat of rust-inhibitive exceed the value set of thin Table R703.7.3. The intels shall how apported on lintels of noncombustible materials & the allowable span shall not exceed the value set of thin Table R703.7.3. The intels shall how apported on lintels of noncombustible materials & the allowable span shall not supporting a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels shall how apported on lintels shall how apported on lintels shall how apported on lintels of noncombustible materials & diffusion apporting or other protection exceed the value set of thin Table R703.7.3. The intels shall how apported on lintels shall how apported on lintels shall how apported on lintels of noncombustible materials & diffusion apporting veneer above. Veneer above. Hera above. Veneer above. Hera above. Veneer above. Hera above.Reput supportion atternative prescriptive provisons combine a steel angle with masonry veneer above.Reput supportion atternative to the existing steel lintel table for spanning large masonry veneer above above. Hera above.RYD3.7.4 Lintels shall			with a 1in. air space is no longer	
R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer have measuring up to 18ft. 3 in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Mathematical supporting weith and the support of the support of the support of support of the support of masonry veneer above openings now require a support of the support of support of the support of the support of support of the support of the support of support of the support of the support of the support of support of the support of the support of support of the support of the support of the support of support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the s				
R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above orbit not support any vertical load other than the dead load of the veneer above robit not support any vertical load other than the dead load of the veneer above orbit not support any vertical load other than the dead load of the veneer above orbit not support any vertical load other than the dead load of the veneer above orbit not support any vertical load other than the dead load of the veneer above orbit not support any vertical load other than the dead load of the veneer above orbit not support any vertical load other than the dead load of the veneer above orbit intels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.masonry veneer has been changes included fastening requirements for wood structural panel signal & implements for the masonry veneer.R703.7.3 Lintels Modification: shall not support any vertical load other than the dead load of the veneer above. veneer above user above. Veneer above above. veneer above above. veneer above and the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.R703.7.3.1 The allowable span shall not exceed the values set forth in Table R703.7.3.2. The new section R703.7.3.1.The new section R703.7.3.2. The new section R703.7.3.1.The new section R703.7.3.2. The intel table for spanning large masonry veneer depending such as occur at				
R703.7.3 Lintels Modification: Stop cat of rust-inhibitive primer or other protection against corrosion. The against corrosi				
Anchored veneer now includes brick, concrete, masonry & stone that is secured to the structure with the code prescribed metal ties. Other changes included fastening requirements for wood structural panel siding & vinyl siding to recognize current industry & manfacturers recommendations & rest reports.R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shal not support any vertical load other than the dead load of the veneer above. Veneer above.				
Provisionsbrick, concrete, masonry & stone that is secured to the structure with the code prescribed metal ties. Other changes included fastening requirements for wood structural panel siding & vinyl siding to recognize current industry & manufacturer's recommendations & rest reports.R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shaln ont support any vertical load other than the dead load of the veneer above. Veneer above openings now require a shall not support any vertical load other than the dead load of the veneer above. Veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.Section R703.7.3.1R703.7.3. The lintels shall have a alternative prescriptive a method for supporting, veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3. The lintels shall have a length of bearing not less than 4 in.R703.7.3 Lintels Masonry veneer shall not supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3.1R703.7.3 Lintels Masonry experime provides a cost effective alternative prescriptive masonry veneer above as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer de alternative prescriptive provisions combine a steel angle with masonry veneer a steel angle with masonry veneer as teel angle with masonry veneer as teel angle with masonry veneer as teel angle with mason				
R703.7.3 Lintels Modification: R203.7.3 Lintels Modification: assorty veneer above openings now require a shall not supporting primer or other protection atientative prescriptive method for supporting to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels Masonry - veneer shall not support any vertical load other than the deal load of the openings shall be supported on lintels of noncombustible materials & to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3. The lintels shall have a length of bearing not less than 4 in.Hat is secured to the structure with the code prescriptive requires corrosion resistance for steel lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.Hat is secured to the structure with the code prescriptive requires corrosion resistance for steel lintels of noncombustible materials & that is accurated to the values set forth in Table R703.7.3. The allowable span shall not exceed the values set forth in Table R703.7.3.118 The rew section R703.7.3.2 provides a cost effective alternative to the existing steel intel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer dening at the masonry veneer dening acombine a steel angle with masonry veneer dening and the masonry veneer dening as occur at overhead garage doors. These prescriptive provisions combine a steel angle				
R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shop coat of rust-inhibitive primer or other protection alternative prescriptive method for supporting a combination of a steel angle & masonry with b norizontal reinforcing.R703.7.3 Lintels. Masonry - veneer shall not support any vertical load other than the dead load of the veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.with the code prescribed metal ties. Other changes included fastening requirements for wood section R703.7.3. The lintels shall have a length of bearing not less than 4 in.with the code prescribed metal ties. Other changes included fastening requirements for wood section R703.7.3. The lintels shall have a length of bearing not less than 4 in.with the code prescribed metal ties. Other changes included fastening requirements for wood section R703.7.3.1 The allowable span shall not exceed the values set forth in Table R703.7.3.1.The new section R703.7.3.2 provides a cost effective alternative prescriptive mer above measuring up to Tast a prescriptive provise ac cost effective alternative to the existing steel alternative to				
R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shop coat of rust-inhibitive primer or other protection alternative prescriptive a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels. Masonry - veneer shall not support any vertical load other than the dead load of the openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.Section R703.7.3. The allowable span shall not exceed the values set forth in Table R703.7.3. The requires cost effective alternative to the existing steel lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.R703.7.3. The allowable span shall not exceed the values set forth in Table R703.7.3.2 provides ar alternative to the existing steel lintel table for spanning large masonry weneer openings such as occur al verhead garage doors. These prescriptive masonry veneer & reinforcing.The new secring requires combine as teel angle with masonry veneer & reinforcing				
R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shall not support any vertical load other than the dead load of the veneer above. Veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3.1 mets the allowable span shall not exceed the value set forth in Table R703.7.3.1 mets the allowable span shall not exceed the value set forth in Table R703.7.3.1 mets the allowable span shall not exceed the value set forth in Table R703.7.3.1 mets the allowable span shall not exceed the value set forth in Table R703.7.3.1 mets the allowable span shall not exceed the values set forth in Table R703.7.3.1R703.7.3.1 mets method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels. Masonry veneer shall not supporting veneer above development of rust & protect the veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 The allowable span shall not exceed the values set forth in Table R703.7.3.1 method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.Require measure and the steel integrite the existing steel alternative to the existing steel and the existing steel and the ada garage dors. These prescriptive masonry veneer & reinforcing				
R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shop coat of rust-inhibitive primer or other protection alternative prescriptive method for supporting veneer above to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels. Masonry - veneer shall not support any vertical load of the veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.skill not exceed the values set forth in Table R703.7.3.1.The new section R703.7.3.2 provides a cost effective a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3. The lintels shall have a length of bearing not less than 4 in.R703.7.3.1.The new section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
Industry & manufacturer's recommendations & rest reports.R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shall not support any vertical load other than the deal load of the veneer above. Veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.Section R703.7.3. The allowable span shall not support any vertical development of rust & protect the integrity of the masonry veneer.2009 IRC also provides an alternative prescriptive for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3. The lintels shall have a length of bearing not less than 4 in.R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisons combine a steel angle with masonry veneer & reinforcing			structural panel siding & vinyl	
Image: contract of the state				
R703.7.3 Lintels Modification: Steel lintels supporting masonry veneer above openings now require a shop coat of rust-inhibitive primer or other protection against corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3 Lintels.Masonry - veneer shall not support any vertical load other than the dead load of the veneer above. Veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.Section R703.7.3 now specifically requires corrosion resistance for steel lintels to inhibit the development of rust & protect the integrity of the masonry veneer.R703.7.3. The using a combination of a steel angle & masonry with horizontal reinforcing.R703.7.3. The lintels shall have a length of bearing not less than 4 in.Section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
Steel lintels supporting masonry veneer above openings now require a shop coat of rust-inhibitive primer or other protection against corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.shall not support any vertical load other than the dead load of the veneer above. Veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.requires corrosion resistance for steel lintels to inhibit the development of rust & protect the integrity of the masonry veneer.The new section R703.7.3.1 requires corrosion resistance for steel lintels to inhibit the development of rust & protect the integrity of the masonry veneer.R703.7.3.1 restrict to the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
masonry veneer above openings now require a shop coat of rust-inhibitive primer or other protection against corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.other than the dead load of the veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.steel lintels to inhibit the development of rust & protect the integrity of the masonry veneer.The new section R703.7.3.1The new section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing		5		
openings now require a shop coat of rust-inhibitive primer or other protection against corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.veneer above. Veneer above openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.development of rust & protect the integrity of the masonry veneer.The new section R703.7.3.1For integrity of the masonry veneer.R703.7.3.1The new section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
shop coat of rust-inhibitive primer or other protection against corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.openings shall be supported on lintels of noncombustible materials & the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.integrity of the masonry veneer.The new section R703.7.3.1The allowable span shall not exceed the values set forth in Table R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing.				
primer or other protection against corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.				
against corrosion. The 2009 IRC also provides an alternative prescriptive method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.the allowable span shall not exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.R703.7.3.1 The allowable span shall not exceed the values set forth in Table R703.7.3.1.The new section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing			and a normation of the one	
2009 IRC also provides an alternative prescriptive method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.exceed the value set forth in Table R703.7.3. The lintels shall have a length of bearing not less than 4 in.shall not exceed the values set forth in Table R703.7.3.1.The new section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing			R703.7.3.1 The allowable span	
method for supporting veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.length of bearing not less than 4 in.The new section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing	2009 IRC also provides an	exceed the value set forth in Table	shall not exceed the values set	
veneer above measuring up to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing.The new section R703.7.3.2 provides a cost effective alternative to the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing			forth in Table R703.7.3.1.	
to 18ft. 3 in. in length using a combination of a steel angle & masonry with horizontal reinforcing. Figure 2 between the set of the set of the existing steel lintel table for spanning large masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing		length of bearing not less than 4 in.		
a combination of a steel angle & masonry with horizontal reinforcing.				
angle & masonry with lintel table for spanning large horizontal reinforcing. masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
horizontal reinforcing. masonry veneer openings such as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
as occur at overhead garage doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
doors. These prescriptive provisions combine a steel angle with masonry veneer & reinforcing				
provisions combine a steel angle with masonry veneer & reinforcing				
with masonry veneer & reinforcing				
above to form the noncombustible			with masonry veneer & reinforcing	
			above to form the noncombustible	

F			· · · · · · · · · · · · · · · · · · ·
		lintel. Shoring is required to support steel lintel & veneer for a period of 7 days to allow the mortar to gain sufficient strength for the lintel to support the dead load of the masonry above.	
R703.7.4 Masonry Veneer Anchorage Modification: The code now prescribes the minimum embedment & cover dimensions for metal wall ties in the mortar of masonry veneer.	The 2006 IRC specified the type, size & spacing of the ties but lacked guidance on the embedment details.	The new text completes the necessary prescriptive requirements for anchorage of masonry veneer & provides consistency with ACI 530.1/ASCE 6/TMS 602 Specification for Masonry Structures (MSJC Specification).	
		The code now prescribes a minimum embedment of 1 1/2 in. into the mortar or grout with not less than 5/8 in. cover on the face side of the veneer.	
R703.11.1.1 & R703.11.2 Vinyl Siding Addition: The 2009 IRC specifically requires vinyl soffit to be fastened in place in accordance with industry standards to ensure adequate wind resistance. New provisions address installations of vinyl siding over foam plastic sheathing based on design wind speed & wind exposure category.		Section R703.11.1 requires vinyl siding, soffit & accessories to be installed with the manufacturer's installation instructions, requirements that have not changed in the 2009 IRC. To provide more guidance to the installer & code user, the IRC now specifies that vinyl soffit must be attached to suitable backing or nailing strips. Section R703.11.1.2 has been added to improve wind resistance performance for vinyl siding applies over foam plastic sheathing, a common installation for meeting energy efficient requirements. The code now offers prescriptive fastening requirements for areas with a basic wind speed not greater than 90 mph & a wind Exposure B condition.	For basic wind speeds greater than 90 mph or locations in Exposure Category C or D, the design wind pressure rating of the exterior wall covering assembly is determined by applying a prescribed adjustment factor to a base value in the vinyl siding manufacturer's product specifications. The higher adjustment factor is based on wall assembly with gypsum board applied to the interior of the wall. The adjusted design pressure rating for the wall assembly must satisfy the component & cladding requirements of Tables R301.2(2) & R301.2(3).
R804 Cold Framed Steel Roof Framing Modification: Section 804 has been extensively revised & reorganized to clarify & update the prescriptive provisions for cold-formed steel light frame roof construction. Applicability of the prescriptive methods has expanded to include 3 story buildings from 2 story.	R804.1 – elements shall be straight & free of any defects that would significantly affect their structural performance. Cold-formed steel roof framing members shall comply with the requirements of this section.	All requirements concerning web holes & web hole adjustments are now consolidated in 1 location. The code user now has the choice to reinforce nonconforming holes, patch nonconforming holes, or design nonconforming holes in accordance with accepted engineering practice. In place of uncoated steel thickness, the code now uses the current industry standardized thickness for structural members expressed as base steel thickness in thousandths of an	The changes reflect the provisions in the new referenced standard AISI S230, Standard for Cold- Formed Steel Framing – Prescriptive Method for 1-2 Family Dwellings 2007 edition.

r			
		inch. Reference Gage No. is no longer used in referencing structural members & has been removed from the associated tables.	
		The in-line framing tolerance in Section R804.1.2 has been revised to account for the special case of the bearing stiffener located on the back side of the joist.	
		Section R804.3.1, Ceiling Joists, has been modified to include the latest provisions from AISI S230- 07 & to improve the understanding of the application. Minimum ceiling joist size, ceiling joist bearing stiffeners, ceiling joist bottom flange bracing & ceiling joist splicing have been relocated into individual subsections to clarify the different requirements.	
		In similar fashion R804.3.2, Roof Rafters, places information for raft size, rafter support brace, rafter splice, rafter to ceiling joist & ridge member connection, & rafter bottom flange bracing into separate subsections.	
		Figure R804.3.2.1.2 has been added to clarify the new subsections on eave overhangs & rake overhangs.	
		The extensive changes to Section R804 also include new tables on roof rafter spans & for framing members & fastening requirements.	
		Wind exposure Category A has been deleted from the cold- formed steel provisions because it no longer exists is ASCE 7-05.	
R806 Attic Ventilation Modification: The attic ventilation requirements now permit methods & materials other than wire mesh for protecting openings against the entry of insects.	The 2006 IRC required metal wire mesh to prevent insects from entering the ventilated area.	The minimum opening dimension has been reduced from 1/8 in. to 1/16 in. Vapor retarders are broken into 3 classes based on properties associated with the rate of restricting the passage of water.	The change recognizes that modern manufacturing techniques produce products with punched, slotted, or hidden ventilation openings that do not require traditional insect screening.
		The provisions for unvented attic spaces have been rewritten for accuracy & clarification.	

R807.1 Attic Access Clarification: Section R807.1 now prescribes the methods to measure the height of attics requiring access & the height above the attic access opening.		The new text clarifies that measurements are taken from the framing members & not from the insulation. In determining attic height, the measurement is taken from the top of the ceiling joist or truss bottom chord to the bottom of the rafter or truss top chord. Conversely, the minimum clearance height above the attic access opening is measured from the bottom of the ceiling joist or truss bottom chord. The other change to this section clarifies that access openings through a wall require a minimum height of 20 in	The intent of this change is to resolve some confusion regarding the methods for measuring heights of attics & the required height above attic access, and to promote uniform application of the provisions.
R905.2 Asphalt Shingles Modification: The changes to the asphalt shingle provisions clarify the attachment & wind resistance requirements & correlate to the applicable ASTM standards.	R905.2 Asphalt shingles - the installation of asphalt shingles shall comply with the provisions of this section.	height of 30 in. New tables provide asphalt shingle classifications based on design wind speed & whether the shingles are sealed in accordance with ASTM D 7158 or unsealed in accordance with ASTM D 3161. The valley lining provisions have been revised to reference the appropriate standard for the use of self adhering polymer modified bitumen underlayment in a closed valley application. The code now prescribes the minimum dimensions for step flashings. Editorial changes improve the mandatory language.	
R905.8.6 Wood shake Installation Modification: To improve longevity, the minimum spacing between wood shakes has increased to 3/8 in.	The 2006 IRC permitted keyway widths as small as 1/8 in.	The code now requires the space between adjacent wood shakes or keyway to be not less than 3/8 in.	The Cedar Shake & Shingle Bureau brought about this change.
R1001 & R1003 Masonry Fireplaces & Chimneys Modification: The 2009 IRC adds minimum thickness, parging, & lining requirements to the masonry fireplace smoke chamber provisions & references the applicable standards.		Masonry fireplace smoke chambers now specifically require protection from parging or clay flue liners able to withstand temperatures of 1800 degrees F. The new text in this section also references the appropriate ASTM standards & intends to preserve the integrity of masonry fireplaces. The references to protecting the cores of corbelled masonry units	The revised definition of masonry chimney provides consistency with language in the masonry fireplace & smoke chamber sections.

has been removed.	
The revised definition for masonry chimney clarifies that approved materials include both solid & hollow masonry units be grouted solid. These materials are consistent with those approved for masonry fireplaces in Section R1001.5, Firebox Walls, and R1001.8, Smoke Chamber.	
Clay flue liners for masonry chimneys require a non water soluble refractory mortar in accordance with ASTM C 1283 & ASTM C 199.	

	January 2015						
Su	Mo	Tu	We	Th	Fr	Sa	
4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
182	Nov 30	Dec 1	2	3 6:00pm City Council Work Session (Library) 7:00pm City Council Regular (Library)	4 12:00pm Cordova Center (Library)	5	6
	7	8	9 6:30pm Planning Commission Regular (Library)	10 7:00pm Harbor Commission Regular (City Hall) 7:00pm School Board Regular (High School)	11 12:00pm Cordova Center (Library)	12	13
82 of 183	14	15 5:00pm Library Board (Library)	16	17 6:30pm City Council Public Hearing (Library) 7:00pm City Council Regular (Library)	18 12:00pm Cordova Center (Library)	19	20
	21	22	23	24	25 City Closed - Christmas	26	27
	28	29	30	31	Jan 1, 15	2	3

12/2/2014 8:58 AM

January	2015
---------	------

 January 2015

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 4
 5
 6
 7
 8
 9
 10

 11
 12
 13
 14
 15
 16
 17

 18
 19
 20
 21
 22
 23
 24

 25
 26
 27
 28
 29
 30
 31

February 2015							
Su	Mo	Tu	We	Th	Fr	Sa	
$ \frac{1}{8} \frac{1}{15} 22 $	2 9 16 23	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
183 of 183	Dec 28	29	30	31	Jan 1, 15 City Closed - New Year's Day	2	3
	4	5	6	7 7:00pm City Council Regular (Library)	8 12:00pm Cordova Center (Library)	9	10
	11	12	13 6:30pm Planning Commission Regular (Library)	14 7:00pm Harbor Commission Regular (City Hall) 7:00pm School Board Regular (High School)	15 12:00pm Cordova Center (Library)	16	17
	18	19 City Closed - Martin Luther King Day	20	21 7:00pm City Council Regular (Library)	22 12:00pm Cordova Center (Library)	23	24
	25	26	27	28	29 12:00pm Cordova Center (Library)	30	31

12/2/2014 8:58 AM