

# BOARD OF YAKIMA COUNTY COMMISSIONERS

## Weekly Agenda Meeting

Tuesday, November 6, 2018 at 10:00 AM

City Council Chambers, 129 North 2<sup>nd</sup> Street, Yakima, Washington

- **PRESENT:** Chairman Ron Anderson, J. Rand Elliott, Legal Counsel Stefanie Wiegand, Deputy Clerk of the Board Linda Kay O'Hara. Michael D. Leita was excused.
- **PUBLIC COMMENT:** None.
- **CONSENT ITEMS:** Approved as presented.

**FUNDING LEVEL: A=No Impact B=Under \$100,000 C=\$100,000- \$500,000 D=Over \$500,000**

| DEPARTMENT   | ITEM                   | DESCRIPTION   | FUNDING LEVEL | ACTION   |
|--|------------------------|---|---------------|----------|
| Public Services<br>Matt Pietrusiewicz, County Engineer | Reso 354-2018          | Accepting as Complete, Contract No. 1724 with N.A. Degerstrom, Inc. for RC 3619 Rattlesnake Creek Bridge No. 31 Repair Project:   | A             | APPROVED |
| Harold MacLean, Building Official                      | Reso 355-2018          | Personal Services Agreement with Terracon Consultants, Inc. to Conduct Combination Lead Risk Assessments/LBP Inspections for the Yakima County Lead Hazard Control Program: | B             | APPROVED |
| Lynn Deitrick, Planning Official                       | Agreement BOCC265-2018 | Interlocal Agreement with North Yakima Conservation District for Implementation Activities for the Voluntary Stewardship Program:   | A             | APPROVED |
| David Haws, Environmental Services Director            | Agreement BOCC266-2018 | Amendment No.5 to Grant Agreement G1400619 between the State of Washington Department of Ecology and Yakima County:   | A             | APPROVED |
| Harold MacLean, Building Official                      | Agreement BOCC267-2018 | Affordable Housing Restriction Agreement for the Yakima County Lead Hazard Control Program, Project No. LD16-038:   | B             | APPROVED |
| Harold MacLean, Building Official                      | Agreement BOCC268-2018 | Personal Services Agreement with Terracon Consultants, Inc. to Conduct Combination Lead Risk Assessments/LBP Inspections for the Yakima County Lead Hazard Control Program: | B             | APPROVED |
| Matt Pietrusiewicz, County Engineer                    | Agreement BOCC269-2018 | Local Agency A&E Professional Services Agreement K.P.G, P.S. for the Yakima Valley Highway & Gurley Road Intersection Study:  | B             | APPROVED |
| Matt Pietrusiewicz, County Engineer                    | Agreement BOCC270-2018 | Agreement Between Yakima Sheriff's Office and Yakima County Public Services Department for Law Enforcement Assistance:  | B             | APPROVED |
|  |                        |   |               |          |
| Commissioners<br>Ron Anderson, Chairman                | Reso 356-2018          | Appointment of Two Board Members to the Horticultural Pest and Disease Board.:  | A             | APPROVED |
|  | Voucher/Warrant        | Certification of Claims Clearing Warrant No. 747829 through 748625 in the net amount of \$4,798,131.67.:  | A             | APPROVED |
|  | Minutes                | Approve Agenda Minutes of 10/30/18:   | A             | APPROVED |
|  |                        |   |               |          |
| Department of Corrections<br>Ed Campbell, Director     | Agreement BOCC271-2018 | 2019 Interlocal Corrections/Detention Agreement with the City of Granger:   | B             | APPROVED |
|  | Agreement BOCC272-2018 | 2019 Interlocal Corrections/Detention Agreement with the City of Selah:   | B             | APPROVED |
|  | Agreement BOCC273-2018 | 2019 Interlocal Corrections/Detention Agreement with the City of Union Gap:   | B             | APPROVED |
|  | Agreement BOCC274-2018 | Agreement for Public Performance Licensing with Swank Motion Pictures, Inc.:  | B             | APPROVED |
|  |                        |   |               |          |

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|--|---------------------------|---|---------------|----------|
| DEPARTMENT   | ITEM                      | DESCRIPTION   | FUNDING LEVEL | ACTION   |
| Financial Services<br>Craig Warner, Director   | Agreement<br>BOCC275-2018 | Agreement with Central Washington Fair Association to Remove and Replace Asphalt in the Barns:  | B             | APPROVED |
| Human Resources<br>Jacqui Lindsay, Director  | Reso 357-2018             | Additions/Deletions to Budgeted Positions in Fund 140, Emergency Medical Services; Dept 220, Sheriff's Office; Fund 502, Technology Services: | B             | APPROVED |
|  | Agreement<br>BOCC276-2018 | Personal Services Agreement with Matrix Absence Management, Inc.:   | B             | APPROVED |


Approved this 20<sup>th</sup> day of November 2018.



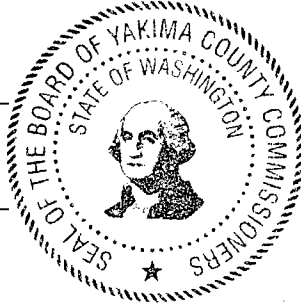
Ron Anderson, Chairman

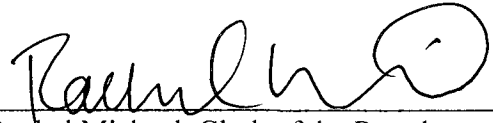


Michael D. Leita, Commissioner



J. Rand Elliott, Commissioner





Rachel Michael, Clerk of the Board

**BOARD OF YAKIMA COUNTY COMMISSIONERS  
PUBLIC HEARING**

Date: November 6, 2018  
Re: **Consider Adopting the Upper Yakima Comprehensive Flood Hazard Management Plan - Cowiche Addendum**  
Time: 10:30 A.M.  
Location: City Council Chambers, 129 North Second St, Yakima, Washington  
Present: Chairman Ron Anderson  
Commissioner J. Rand Elliott  
Legal Counsel Stefanie Wiegand  
Deputy Clerk of the Board Linda Kay O'Hara  
Commissioner Michael D. Leita was excused

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| Record of Proceedings |
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**David Haws, Environmental Services Director:** Good morning Commissioners, for the record I'd like to introduce myself, I'm David Haws, Environmental Services Director and with me today is Terry Keenhan, he's the Public Services Water Resources Division Manager. So, as background, the City of Yakima Council and Yakima County Commissioners held a combined study session on October 10<sup>th</sup>, and after that both agreed and recommended moving forward for holding separate public hearings. The City of Yakima held their public hearing on October 2<sup>nd</sup> and after that, adopted the Comprehensive Flood Management Plan – Cowiche Addendum. So, Terry and I have a short presentation to explain why the Upper Yakima Comprehensive Flood Hazard Management Plan or CFHMP needs to be amended due to the February 2016 and March 2017 flood events, how we a lengthy we went through a lengthy community process and solicited public input, including establishing a CFHMP Updated Advisory Committee. There was 11 Committee meetings over a 6-month period. As I mentioned, the City of Yakima held a public hearing and adopted the CFHMP without further additions on October 2<sup>nd</sup>. We'd also like to highlight actions taken prior to last flood season and a summary of causes and recommendations made with the Cowiche Addendum. So, at this time, I'd like to turn it over to Terry to give a short presentation.

**Terry Keenhan, Water Resources Division Manager:** Thank you, David, Terry Keenhan, Water Resources Division Manager. So, I'll just go directly into the PowerPoint to give some background on this. We're going to be asking to move this to adoption and some stage in a future meeting. Alright, so the reason why is fairly straightforward. We had failure with some infrastructure in 2016 and 2017 when he had some floods less than 10 year, so there was extensive flooding in the City and that's we are moving forward in both cases. I guess I should mention what is a Comprehensive Flood Hazard Management Plan and, in the slide, you'll see that I have listed the 5 major goals of it which are to identify cause and risk, identify options, provide recommendations and a strategy for correcting our deficiencies and it also basis for funding. So, once you have this locally agreed upon or adopted plan then you can fund them, go out externally for funding and you'll get State and Federal funding, they only want to come when there is an already agreed upon plan. The other thing that I should mention about this is it allows you to replace if there is a disaster or flood before all or any of this gets done, you can put back your infrastructure in a different way than it currently is, which is what we found is very necessary in this particular case. The process for a Comprehensive Flood Hazard Management Plan is put in State law before GMA and it has its own set of public involvement requirements, so we appointed an Advisory Committee, and I'll talk a little bit more about that, but that initiates the community involvement. So, I think the long-term actions that are proposed in CFHMP were something that I'll get to a little later in here and I'll go through my recommendations. So, this first slide essentially, just outlines what the Advisory Committee did or does during the process and so the Advisory Committee sets goals and objectives, identifies flood issues and then generates the recommendations that are in the Plan. That's a fair bit of work, the Flood Control Zone District facilitates that process and provides technical modeling or whatever is required to get to those steps. This is just a list of Committee members, there were 31, but only 15 were voting and they had alternates. There were a total of 11 meetings over 6 months, so it's a fair effort by the community to get together in a commitment of time and resources as well as the Flood Control providing whatever information is needed between meetings for the next meeting. So, we should really discuss, or I should the flood extents from 2016 and 2017, which were really extensive. The red is the flood mapping that will be coming to the community in, actually the community meeting will be at the end of this week, it's just coincidence falling on the same time period and the red is where the mapping pretty much comes to, down and some of it is down into the lakes and ends there. I'll talk more about that, but the blue was the actual flooding that we saw, and it wasn't a hundred-

year event, but it went through the levies and made its way down. It may not be easy to see, but it is in fact going across 16<sup>th</sup> Street and goes right down to 6<sup>th</sup>, along the backside of the SR 12 highway embankment, so had it been larger, it would have been more volume. So, therefore the study area was set up including all of that. This addendum looks at part of the Upper Yakima CFHMP area, but it limited to this section. So, I should mention that the, there have been a number of actions already done by a partnership between the City, WSDOT, Cowiche-Naches Canal Company and the Office of Emergency Management. Those actions were done trying to get ready for any future flooding and some of them were accomplished before the second flood, so the CFHMP has to take into account these things that have already happened. So, like replacing an old siphon upstream at Powerhouse Road. The City has set up a flood fight agreement with WSDOT, they also have a flood fight agreement with the landowner downstream. WSDOT has cleaned out their bridge as the flood agreement with the City. The County has replaced already the confining trail bridge downstream that was actually repaired or replaced between the two floods, so that helped. We've already acquired an easement on the downstream part for putting in a new channel where that area has less capacity. We've cleaned out the trail bridge, we've done the CFHMP and we've also applied for a grant, which is now on the short list of grants for flood plans by design. The notice came out yesterday, we're seventh on their list. The Yakima Valley Office Emergency Management is being engaged because they have a really important role from now on until the infrastructure has changed, they have to be in a state of readiness. I just want to show you the City agreement with WSDOT to divert floods. So, instead of blocking it at 40<sup>th</sup>, they will now block it, underneath the sort of in front of Subway there and push it back to the Naches River, upstream of that location so it won't make it to those lakes. Of course, this would be a temporary emergency structure. So, that agreement is now in place, I think it was put in place the week after the October 2<sup>nd</sup> Council meeting. So, then the next slide is essentially to look at what was accomplished in the CFHMP, so this is very brief. Was it flooding before this? Yes, we found quite a record of these, there were major floods in 33, 48, 74, 95 and 96. In 33, as result of that flood, in 37 there was a bunch of levies started to go in, and those are the ones that actually failed. Of course, there's more development now, downstream and it's a different concern than it was previously. So, we looked at that and then the Advisory Committee, we tried to establish cause and it became really clear that the cause is the development. First, with railway lines that blocked off the flood plains, then bridges and then warehouses filling the flood plains, then channelization. So, that was started before 1933, there were a number of levies that went in to protect people, local landowners. And, then of course, the next major issue was Highway 12 got put in here and the assumption with Highway 12 was the current bridge there under the old 12 was of sufficient capacity. Now, we know it isn't and as a result of this study, we have already done some work from WSDOT and they have put a bridge resizing request into their own system. So, that bridge will probably be replace in however many years it gets through the system. State Route 12 also created Myron, Willow and Aspen Lakes, protected presumably from the Naches and that was part of the agreement in putting these in. And, of course, we found if it can't get underneath 12, it goes into the lakes and that's part of the major issue. Of course, the other thing that's happened is urban development, it's getting more developed, there's less places for it to go and there's more people are closer to drainage paths. And, then CFHMP looks at the current risk, how good is it right now and how good would it be from the hundred-year. So, this slide actually shows you Cowiche Creek from Powerhouse Road on the left, going over to SR 12 and then going downstream into Naches River and that's the actual capacity at this stage of those structures even after our temporary improvements, so any flows above that cause overflows going towards the City. It's good to point out at this point that the hundred-year flood is 2,800 CFS, so clearly these don't have enough capacity, so we're living a little bit with borrowed time here. That 2,800 CFS came out of a recent FEMA study, which was done with the standard methods that are done in this area, which we use for other creeks. So, now we've established the corridor in itself for us all and what do we do about it? I think the major finding is basically that the corridor has to be replaced and what do we do in the interim, because we're sitting with a pending risk scenario. There have been repairs to those structures, but they're not high enough or wide enough and big enough to accommodate the larger floods in the ten-year flood. So, the long-term recommendations are for replacement of the corridor and, which includes replacing the Powerhouse and SR 12 bridges and provides new levies and 4,000 feet of new channel. So, it's a fairly extensive piece of work and expenditure. The SR 12 is estimated alone to cost over \$10 million without lifting the approaches, so we're looking at significant dollar figures at the end of the day. Of course, we need to go for funding. So, the short-term recommendations are really what to do in the interim while we're, how do we deal with this, which includes things like channel capacity that we can get temporarily downstream, diverting water underneath, to catch it before it can get into the City and how do we deal with the short time frame? We only have five hours difference between the gauge that tells a flood's coming and when it's there, so it's pretty short timeframe. So, there's a lot of planning recommendations because the corridor is owned by multiple people, the City, the County, private, so there has to be cooperation planning so that they all fit together, and we don't over or under assign any parts impacting any of the others. That's what the grant actually was for. The County is going to go forward if they get that grant and provide that planning element. Flood preparedness, I think, is kind of already addressed. We need to let people know quickly, and public awareness is, that's one of the purposes of the

CFHMP, but we may have to reach out a little bit more. Many of these tasks are basically City oriented tasks because it's their citizens that are in harm's way. And, the last thing is we would apply for grant funding. So, the 52 recommendations, 12 which are long-term are in the reports, I have handouts if there were anybody here that wanted to see them, but this report is being available since the public knows and previously on our site about 2 months now for the public to look at. I'm just showing you that's one location immediately downstream of Powerhouse with SR 12 in the middle where you can see the red/magenta line is the current bed and what we would do is put a new bridge in there and actually have a new channel and have a new channel downstream so that little insert at the top is a new channel proposed downstream. We already have the easement, we just have to get the design money, which we're working on right now. That extra three feet of dropping the channel allows greater capacity for everything and for the current SR 12 bridge to be accomplished with sufficient free board when it's replaced. Okay, so that's all the items on the actual CFHMP and I just had noted here that there will be a meeting at the end of this week with the communities and I think January there will be a public, the new maps will come forward. Cowiche, which is part of how we came aware of the issues at this location. The red is the hundred year and it terminates unfortunately at the lakes, so the maps don't go far enough and that was the limits of the study because it would get into two dimensional analysis in an area where nobody really understood very well the drainage facilities in here, which there are a number that FEMA to this day is only doing 1D analysis in their mapping, so the study got limited, even when we discovered the overflows. We did do a simulation to find out what it would look like if we made a hypothetical hydrograph with its peak flow using the 2016 hydrograph and how much water would come into the City and you can see that this is a real issue for the City because it gets all the way down into the warehouse area, it goes to the lakes with more difficulties. There are recommendations in here for the dam owners to look at the safety of those three lakes, actually two lakes. Myron, there's a dam and Willow, there's a dam, Aspen it's the road. So, those are the, that's the kind of scenario we are in. We've got new maps, but they don't go far enough downstream, there's a lot of regulatory issues that the City has to deal with at this stage how to protect their citizens, so that's the importance of going forward with the CFHMP. I think that's all I had to say.

**Ron Anderson:** Thank you very much Terry. Anyone have any comments?

**Rand Elliott:** Did David have anything to wrap up?

**David Haws:** No.

**Rand Elliott:** Okay.

**Terry Keenhan:** So, we would be asking you to move forward for adoption of the CFHMP after the public hearing.

**Ron Anderson:** Okay, we'll close the public hearing.

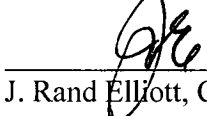
**Rand Elliott:** Yes, Mr. Chairman, if there's no objection, I ask Terry and David to bring this forward to resolution.

**Ron Anderson:** So moved. If there is no further comment, we are adjourned.


Approved this 20<sup>th</sup> day of November 2018.

  
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Ron Anderson, Chairman

  
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Michael D. Leita, Commissioner

  
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J. Rand Elliott, Commissioner



  
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Rachel Michael, Clerk of the Board