



City Council

Mayor
Brian Dalton

Council President
Jim Fairchild

Councilor
Kelly Gabliks

Councilor
Micky Garus

Councilor
Bill Hahn

Councilor
Jackie Lawson

Councilor
Kevin Marshall

Councilor
Murray Stewart

Councilor
LaVonne Wilson

Councilor
Ken Woods, Jr.

City Staff

City Manager
Ron Foggin

City Attorney
Lane Shetterly

Community
Development/
Operations Director
Jason Locke

Finance Director
Cecilia Ward

Fire Chief
Fred Hertel

Police Chief
Tom Simpson

Director of Engineering
& Environmental
Services
Fred Braun

City Recorder
Emily Gagner

Recording Secretary
Jeremy Teal

Dallas City Council Agenda

Mayor Brian Dalton, Presiding

Monday, May 4, 2015

7:00 pm

Dallas City Hall

187 SE Court St.

Dallas, OR 97338

All persons addressing the Council will please use the table at the front of the Council. All testimony is electronically recorded. If you wish to speak on any agenda item, please sign in on the provided card.

AGENDA ITEM	RECOMMENDED ACTION
1. ROLL CALL	
2. PLEDGE OF ALLEGIANCE	
3. CITIZEN ACADEMY RECOGNITION	
4. EMPLOYEE RECOGNITION/INTRODUCTION	
5. TOURISM MONTH PROCLAMATION	PG. 3
6. COMMENTS FROM AUDIENCE <i>This time is provided for citizens to comment on municipal issues and any agenda items other than public hearings. The Mayor may place time restrictions on comments. Please supply 14 copies of the material brought to the meeting for distribution.</i>	
7. PUBLIC HEARINGS <i>Public comment will be allowed on items appearing on this portion of the agenda following a brief staff report presenting the item and action requested. The Mayor may limit testimony.</i>	
8. CONSENT AGENDA <i>The following items are considered routine and will be enacted by one motion. There will be no separate discussion of these items unless a Council member so requests, in which case the item will be removed from the Consent Agenda and considered separately.</i>	
a. Approve minutes of April 20, 2015 City Council meeting	PG. 4
9. ITEMS REMOVED FROM CONSENT AGENDA	
10. REPORTS OR COMMENTS FROM MAYOR AND COUNCIL MEMBERS	
a. General Comments from the Councilors and Mayor	



Our Vision

Our vision is to foster an environment in which Dallas residents can take advantage of a vital, growing, and diversified community that provides a high quality of life.

Our Mission

The mission of the City of Dallas is to maintain a safe, livable environment by providing open government with effective, efficient, and accountable service delivery.

Our Motto

Commitment to the Community.
People Serving People.

City Hall

Dallas City Hall is accessible to persons with disabilities. A request for an interpreter for the hearing impaired or for other accommodations for persons with disabilities should be made at least 48 hours before the meeting to the City Manager's Office, 503-831-3502 or TDD 503-623-7355.

- b. Report of the April 27, 2015, Public Safety Committee Meeting (Councilor Woods) PG. 9
- c. Report of the April 27, 2015, Public Works Committee Meeting (Councilor Stewart) PG. 19

11. REPORTS FROM CITY MANAGER AND STAFF

- a. Council goal update
- b. Other

12. RESOLUTIONS

13. FIRST READING OF ORDINANCE

14. SECOND READING OF ORDINANCE

15. OTHER BUSINESS

16. ADJOURNMENT

Information

Information

Proclamation

Tourism Week – May 4-10, 2015

Whereas, the travel and tourism industry supports the vital interests of the nation, our beautiful state and our splendid Polk County, contributing greatly to our prosperity, international relations, peace, understanding, and goodwill; and

Whereas, travel and tourism are together one of Oregon's largest industries, annually contributing nearly ten billion dollars to our economy; and

Whereas, visitors to Polk County alone added \$165 million dollars to our local economy; and

Whereas, those travelers provided jobs for almost 2,000 workers in Polk County, with earnings of \$42 million dollars and tax revenues of nearly \$4 million dollars; and

Whereas, as people throughout the world become more aware of the sublime cultural, recreational and agricultural tourism experience of Oregon and especially Polk County, travel and visitors will become an increasingly important aspect in the lives of our citizens; and

Whereas, given these wonderful contributions to the economic, social, and cultural well being of all of us in Polk County, it is fitting that we recognize the importance of travel and tourism.

Now, therefore I, Brian Dalton, Mayor of the City of Dallas, do hereby proclaim the week beginning May 4, 2015, as National Tourism Week.

Brian Dalton
Mayor

These minutes are supplemented by electronic recordings of the meeting, which may be reviewed upon request to the City Recorder. Audio files from City Council meetings from April 20, 2015, forward can be found online at <http://www.dallasor.gov/archive> under the corresponding agenda date. Staff reports, resolutions, ordinances, and other documents related to this meeting are also available at that site in the "Council Agendas" archive.

DALLAS CITY COUNCIL	Monday, April 20, 2015
The Dallas City Council met in regular session on Monday, April 20, 2015, at 7:00 p.m. in the Council Chambers of City Hall with Mayor Brian Dalton presiding.	
Council: Council President Jim Fairchild, Councilor Kelly Gabliks, Councilor Micky Garus, Councilor Bill Hahn, Councilor Jackie Lawson, Councilor Murray Stewart, Councilor LaVonne Wilson, and Councilor Ken Woods, Jr. Excused: Councilor Kevin Marshall	
Staff: City Manager Ron Foggin, City Attorney Lane Shetterly, Police Chief Tom Simpson, Fire Chief Fred Hertel, Community Development/Operations Director Jason Locke, Director of Engineering and Environmental Services Fred Braun, Finance Director Cecilia Ward, HR Manager Emily Gagner, and Recording Secretary Jeremy Teal.	
Pledge of Allegiance: Mayor Dalton led the Pledge of Allegiance.	

AGENDA	ACTION
1:14 HARPY BOVARD SCHOLARSHIP RECIPIENTS	Chief Hertel explained that two Harpy Bovard scholarships were awarded this year. Paul McCallum introduced Isabella Johnson and Ashley Crabtree as the recipients of the scholarships.
4:28 ARBOR DAY PROCLAMATION	Mayor Dalton read the Arbor Day Proclamation stating Friday, April 24, 2015 was Arbor Day.
7:30 COMMENTS FROM THE AUDIENCE	Blaine Billman, 2090 Mistletoe Rd., Dallas, explained Western Smelting resided on Uglow Street, just past Van Well's, and regularly had trucks attempting to back in the facility blocking the road. He expressed concern about future accidents that could be completely avoided with flaggers at the top of the hill. Joe Koubek, 565 SE Mifflin St., Dallas, read a statement regarding a ban on backyard burning, a copy of which is attached to these minutes and incorporated herein. Jim Sapienza, 525 SE Washington St., Dallas, Administrator at West Valley Hospital, offered resources to the community that coincides with the Dallas 2030 Vision.
PUBLIC HEARINGS	There were none.

<p>15:45 CONSENT AGENDA</p> <p>Items approved by the Consent Agenda: approve minutes of April 6, 2015 City Council meeting minutes.</p>	<p>It was moved by Councilor Gabliks <i>to approve the Consent Agenda as submitted</i>. The motion was duly seconded and carried with a vote of 8-0.</p>
<p>ITEMS REMOVED FROM CONSENT AGENDA</p>	<p>There were none.</p>
<p>14:36 REPORTS OR COMMENTS FROM THE MAYOR AND COUNCIL MEMBERS</p>	<p>There were none.</p>
<p>REPORTS FROM CITY MANAGER AND STAFF</p>	
<p>16:30 MARCH FINANCIAL REPORT</p>	<p>Ms. Ward noted the financials were tracking well and noted the March report did not reflect the transfers the Council approved in April.</p> <p>Mr. Foggin stated the meter replacement project was progressing nicely and would be done ahead of schedule.</p>
<p>19:21 COUNCIL GOAL UPDATE</p>	<p>Mr. Foggin noted that Mr. Jensesn's report from the Council goal setting workshop was attached to his weekly email and the department heads would be creating action items to coincide with the goals.</p>
<p>FIRST READING OF ORDINANCE</p>	<p>There were none.</p>
<p>SECOND READING OF ORDINANCE</p> <p>20:38 Ordinance No. 1781 – An Ordinance adopting new provisions of the Dallas City Code relating to the Dallas Municipal Judge and Court; and repealing prior conflicting ordinances.</p>	<p>A roll call vote was taken and Mayor Dalton declared Ordinance No. 1781 to have PASSED BY A VOTE OF 8-0 with Council President Jim Fairchild, Councilor Kelly Gabliks, Councilor Micky Garus, Councilor Bill Hahn, Councilor Jackie Lawson, Councilor Murray Stewart, Councilor LaVonne Wilson, and Councilor Ken Woods, Jr. voting YES.</p>
<p>21:21 RESOLUTIONS</p> <p>Resolution No. 3322 – A Resolution establishing certain fees and rates in Dallas Municipal Court.</p>	<p>A roll call vote was taken and Mayor Dalton declared Resolution No. 3322 to have PASSED BY A VOTE OF 8-0 with Council President Jim Fairchild, Councilor Kelly Gabliks, Councilor Micky Garus, Councilor Bill Hahn, Councilor Jackie Lawson, Councilor Murray Stewart, Councilor LaVonne Wilson, and Councilor Ken Woods, Jr. voting YES.</p>
<p>21:59 EXECUTIVE SESSION</p>	<p>Mayor Dalton recessed the meeting at 7:22 p.m. to go into Executive Session as authorized under ORS 192.660 (2)(h) to consult with legal counsel concerning the legal rights and duties of a public body with regard to current litigation or litigation likely to be filed.</p>

	The meeting was reconvened at 8:51 p.m.
OTHER BUSINESS	There was none.

ADJOURNMENT	There being no further business, the meeting adjourned at 8:51 p.m.
--------------------	---

Read and approved this _____ day of _____ 2015.

ATTEST:

Mayor

City Manager

--

DRAFT

Joseph E Koubek
565 SE Mifflin Street
Dallas Oregon 97338

503-480-4093

joekoubek@yahoo.com

April 20, 2015

Members of the City Council, Mayor Dalton and Mr. Foggin:

I am here tonight to respectfully ask you to consider a ban on backyard burning in the city of Dallas. Backyard burning has the potential to cause significant property damage, or worse; and creates smoke which can contain toxins and pollutants – especially when inappropriate materials are burned. Dallas has many residents with respiratory issues and the smoke from backyard burning can certainly contribute to their breathing difficulties. In Dallas, you're never far from your neighbors and filling your neighborhood with noxious smoke is not very polite. Most other communities in the Mid-Valley have banned backyard burning. Responding to burning complaints ties-up already-limited city resources and the city does not have enforcement authority with regard to illegal burning.

Dallas currently has yard debris collection as part of its franchise agreement with Republic Services. If that service needs to be expanded or a debris drop-off site added in conjunction with a ban on backyard burning, then let's explore those options.

One of the things I cherish most about Oregon is clean air. I am not a native of Dallas or Oregon – maybe that’s why I don’t take fresh clean air for granted. The Dallas 2030 Vision says “Dallas neighborhoods are clean, safe, friendly and livable places” and “Dallas has strong community health and wellness through education, awareness, environmental health and safety measures, outdoor recreational activities, and active lifestyles.” Let’s start working towards those goals now. The time has come to finally ban backyard burning in Dallas. It’s time to clear the air and breathe a little easier in Dallas. I have asked Councilor Woods, as Chair of the Public Safety Committee, to place this matter back on the agenda of his committee for discussion.

Thank you.

Joe Koubek

Dallas Oregon

503-480-4093

1
2
3
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
32
33
34

Members Present: Chair Ken Woods, Jr., Micky Garus, Murray Stewart, LaVonne Wilson

Also Present: Mayor Brian Dalton, City Manager Ron Foggin, Fire Chief Fred Hertel, Chief of Police Tom Simpson, and Recording Secretary Jeremy Teal.

Chair Woods called the meeting to order at 4:43 p.m.

AMBULANCE RATE DISCUSSION

Mr. Brumfield noted the department was looking to close the gap between fees and payment for service with an adjustment to the ambulance rates, including FireMed. He recommended in addition to the increase implementing an automatic annual increase in the rates based on the Consumer Price Index (CPI) beginning in 2016.

It was moved by Councilor Wilson to direct staff to draft a resolution adopting the proposed changes to current ambulance rates and include automatic rate adjustments according to the change in the Consumer Price Index for All Urban Consumers, Portland-Salem, established by the Bureau of Labor Statistics, for the immediately preceding calendar year. The motion was duly seconded and carried with a vote of 4-0.

BURN BAN DISCUSSION

Chief Hertel noted backyard burning had been addressed in the past and had not been an issue for the department, and accounted for less than 5% of all calls. He stated the burning was more of a nuisance for neighbors than a priority for the department. The committee made no further recommendations.

CHIEF OF POLICE'S REPORT

Chief Simpson reviewed his report covering code services, upcoming officers, retiring officers, and the POINT team.

Councilor Garus asked the annual cost for a POINT member. Chief Simpson stated the cost included one detective, a vehicle, and a \$5,000 donation. Mr. Foggin noted that was about \$125,000 a year.

FIRE CHIEF'S REPORT

Chief Hertel reported the Oregon Health Authority did a review of the department and found some discrepancies that would be fixed. He noted the grant the department applied for posted last Friday for first round, and would post every Friday for the next six months. He commented the new fire engine was slated to arrive in December. He explained that SW Polk financially would only last another 3 years, and then would have to borrow money, ask for levy, a bond measure, or consolidation into larger fire district. He indicated that 140 calls a year were lost due to the third medic unit being unable to respond, losing the department between \$50-\$60,000 last year.

OTHER/ADJOURNMENT

There was no other business and the meeting was adjourned at 5:15 p.m.



Public Safety Committee

AGENDA

April 27, 2015

4:00 PM

Council Chambers
Dallas City Hall
187 SE Court St
Dallas, OR 97338

- A. Call to Order
- B. Code Services report
- C. Ambulance rate discussion
- D. Burn ban discussion
- E. Chief of Police's report
- F. Fire Chief's report
- G. Other
- H. Adjournment

COMMITTEE

Chair Ken Woods, Jr.

Micky Garus

Murray Stewart

LaVonne Wilson



Dallas Ambul



DALLAS CITY COUNCIL

PUBLIC SAFETY SUBCOMMITTEE REPORT

TO: COUNCIL PUBLIC SAFETY SUBCOMMITTEE

<i>City of Dallas</i>	Agenda Item No.	Topic: Ambulance Fees Resolution No. 3304
Prepared By: Todd Brumfield	Meeting Date: 04/27/2015	Attachments: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Approved By: Ron Foggin		

RECOMMENDED MOTION:

Motion to recommend the City Council adopt the proposed changes to current ambulance rates and include automatic rate adjustments according to the change in the Consumer Price Index for All Urban Consumers, Portland-Salem, established by the Bureau of Labor Statistics, for the immediately preceding calendar year.

BACKGROUND:

Annual analysis of current ambulance rates, as well as examination of possible revenue increases, suggests our ambulance rates can be increased and still be within the Willamette area margins. Discussion with our current ambulance billing company revealed a common practice of assigning annual ambulance fee increases based on CPI percentages.

FISCAL IMPACT:

The proposed changes to the ambulance rates would create increased revenue of \$39,915.00.

This information is based on CY 2014, projected ambulance transport increases and recommended fee increases.

1. Transport fees - \$33,540.00
2. FireMed Membership - \$5,575.00
3. Treatment, No Transport fee - \$800.00

ATTACHMENTS:

1. Resolution No. 3304
2. Proposed Resolution changes
3. Corvallis Fire Department 2015 Rate Survey

RESOLUTION NO. 3304

A Resolution establishing a schedule of rates for ambulance and emergency medical services and Dallas FireMed; and repealing Resolution 3266.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DALLAS:

Section 1. The following rates shall apply to ambulance and emergency medical services provided by the City of Dallas:

- (a) Resident rates (All levels of service): \$1,000
- (b) Non-resident rates (All levels of service): \$1,163
- (c) Service delivery fee, where an ambulance is called to a location but neither transportation nor medical services are required and were not reasonably anticipated to be required \$150
- (d) For mileage from the point where the patient is picked up to the point where the patient is delivered, per mile \$ 18
- (e) Evaluation and treatment (no transport)
 - (1) Where an ambulance is called for emergency medical services, provides treatment, and no transport occurs \$ 450
 - (2) Where an ambulance is called for emergency medical services under an agreement with a health care facility to provide treatment to a person under the direct supervision of a physician or registered nurse, and no transport occurs \$250

Section 2. The annual fee for enrollment in the Dallas FireMed program shall be \$55 for residents and \$65 for non-residents.

Section 3. The rates established under this resolution shall be effective for services provided on and after October 1, 2014.

Section 4. Resolution No. 3266 is repealed as of the effective date of this Resolution.

Adopted: September 15, 2014
Approved: September 15, 2014

BRIAN W. DALTON, MAYOR

ATTEST:

APPROVED AS TO FORM:

RONALD W. FOGGIN,
CITY MANAGER

LANE P. SHETTERLY,
CITY ATTORNEY

Public Safety Subcommittee Report

April 27, 2015

Recommended changes to the ambulance rates contained in Resolution No. 3304:

Section 1.a. – Increase Resident rate from \$1,000 to \$1,100.

Section 1.b. – Increase Non-resident rate from \$1,163 to \$1,320.

Section 1.d. – Increase mileage from \$18 to \$20 per mile.

Section 1.e.(1) – Increase treatment, no transport fee from \$450 to \$465.

Section 2. – Increase Dallas FireMed rates from \$55 and \$65 to \$60 and \$75, respectively.

Insert a new section after Section 2 relating to annual CPI-U increases to the above rates. Proposed language would be as follows (this language has not be approved by the city attorney):

Section 3. The rates established for ambulance service furnished by the City of Dallas, as set forth in Section 1. (a), (b), (c), (e(1)), and Section 2 shall be adjusted effective June 1, 2016, according to the change in the Consumer Price Index for All Urban Consumers, Portland-Salem, established by the Bureau of Labor Statistics, for the period January 1, 2015 to December 31, 2015, subject to Section 5 below.

Section 4. Thereafter, on and as of June 1 on each year, beginning with June 1, 2017, the rates for ambulance service furnished by the City of Dallas, as previously adjusted, shall be adjusted according to the change in the Consumer Price Index for All Urban Consumers, Portland-Salem, established by the Bureau of Labor Statistics, for the immediately preceding calendar year, subject to Section 5 below.

Section 5. The adjustment in ambulance rates provided by Sections 3 and 4 shall not exceed three percent (3%) in any one-year period.

	<i>County</i>	<i>Fire-Med</i>	<i>BLS-Emergency</i>	<i>ALS 1 Emergency</i>	<i>ALS 2 Emergency</i>	<i>ALS 1 Non-Emergency</i>	<i>BLS Non-Emergency</i>	<i>Evaluation & Treatment No Transport</i>	<i>Transport Mileage (per mile)</i>
Corvallis Fire (Current)	Benton	\$65.00	\$775.00	\$1,000.00	\$1,000.00	\$1,000.00	\$775.00	\$450.00	\$15.00
Eugene / Springfield Fire & EMS	Lane	\$65.00	\$1,700.00	\$1,700.00	\$1,700.00	\$1,700.00	\$1,700.00	\$850.00	\$21.20
Lane Fire Authority	Lane	\$65.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$800.00	\$20.00
South Lane Fire and Rescue	Lane	\$65.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$800.00	\$20.00
Albany Fire	Linn	\$65.00	\$1,020.00	\$1,020.00	\$1,020.00	\$1,020.00	\$1,020.00	\$420.00	\$19.50
Jefferson Fire District	Linn	\$50.00	\$900.00	\$1,100.00	\$1,100.00	\$1,100.00	\$900.00	\$450.00	\$18.00
Lebanon Fire District	Linn	\$50.00	\$1,100.00	\$1,200.00	\$1,200.00	\$1,200.00	\$1,100.00	\$500.00	\$18.00
Sweet Home Fire	Linn	\$50.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$250.00	\$18.00
Salem Fire Department	Marion	\$60.00	\$810.10	\$952.64	\$1,005.73	\$952.64	\$641.55	\$464.77	\$15.40
Marion County Fire District #1	Marion	\$60.00	\$810.10	\$952.64	\$1,005.73	\$952.64	\$650.00	\$464.77	\$15.40
Keizer Fire District	Marion	\$60.00	\$810.10	\$952.64	\$1,005.73	\$952.64	\$641.55	\$464.77	\$15.40
Turner Fire District	Marion	\$60.00	\$910.00	\$1,110.00	\$1,250.00	\$940.00	\$650.00	\$450.00	\$18.00
Dallas Fire Department	Polk	\$55.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$450.00	\$18.00
Polk County Fire District #1	Polk	\$60.00	\$1,100.00	\$1,100.00	\$1,100.00	\$1,100.00	\$1,100.00	\$450.00	\$18.00
McMinnville Fire	Yamhill	\$70.00	\$1,645.00	\$1,645.00	\$1,645.00	\$1,645.00	\$1,645.00	\$465.00	\$22.00
Newberg Fire Department	Yamhill	\$52.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$450.00	\$21.00
Median		\$60.00	\$1,010.00	\$1,100.00	\$1,100.00	\$1,060.00	\$1,010.00	\$457.39	\$18.00
Difference from median values		\$5.00	(\$235.00)	(\$100.00)	(\$100.00)	(\$60.00)	(\$235.00)	(\$7.38)	(\$3.00)
Percentage from the Median		7.7%	-30.3%	-10.0%	-10.0%	-6.0%	-30.3%	-1.6%	-20.0%
Median for College/University Communities		\$60.00	\$1,100.00	\$1,200.00	\$1,200.00	\$1,200.00	\$1,100.00	\$464.77	\$18.00

DALLAS CITY COUNCIL

PUBLIC SAFETY SUBCOMMITTEE REPORT

TO: COUNCIL PUBLIC SAFETY SUBCOMMITTEE

<i>City of Dallas</i>	Agenda Item No.	Topic: Backyard burning
Prepared By: Chief Hertel	Meeting Date: 4/23/2015	Attachments: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Approved By: Ron Foggin		

RECOMMENDED MOTION:

The Fire Department recommends working with dispatch to create a system which only requires our volunteers to respond when it is a true emergency and hold to all other current practices with regards to backyard burning.

BACKGROUND:

In reviewing the history of the backyard burning issue for the City of Dallas, I found that previous fire administrations had brought the issue to council workshops in 2009 and 2012. It appears that in both instances there was a recommendation for a total burn ban. The 2009 proposal was accompanied by the below chart which I have expanded to include current data. Located within the historical documents are letters both supporting and in opposition of a backyard burn ban.

FISCAL IMPACT:

No direct financial impact.

DALLAS 2030 VISION IMPACT:

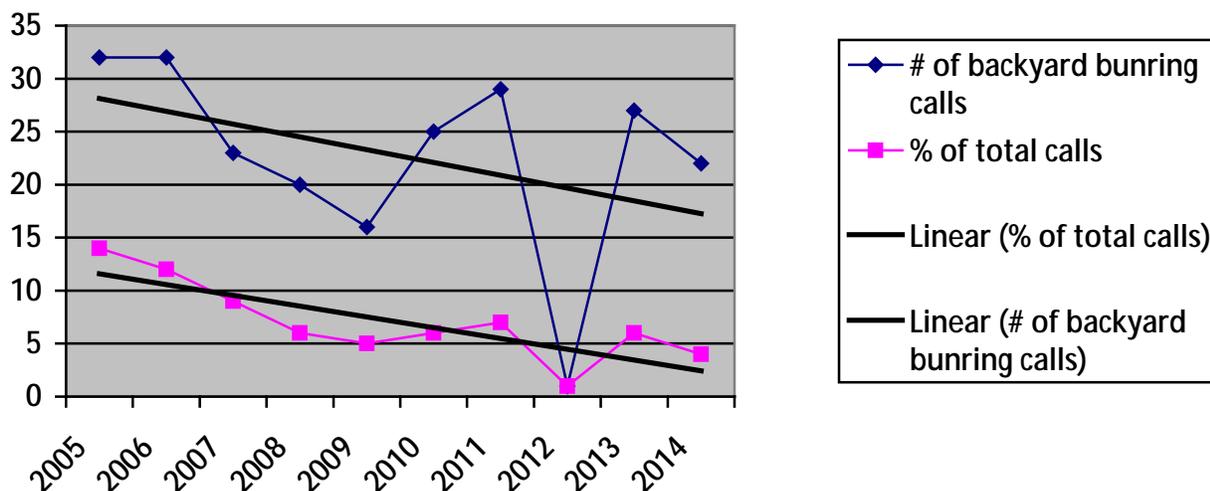
This applies to 5f in the City of Dallas 2030 Vision.

ATTACHMENTS:

Backyard burning report

Backyard Burning

In reviewing the history of the backyard burning issue for the City of Dallas, I found that previous fire administrations had brought the issue to council workshops in 2009 and 2012. It appears that in both instances there was a recommendation for a total burn ban. The 2009 proposal was accompanied by the below chart which I have expanded to include current data. Located within the historical documents are letters both supporting and in opposition of a backyard burn ban.



**There appears to be data issues with the 2012 year.*

Our current practice involves allowing burning two times per year, once in the spring from March 15 through June 15 and once in the fall from October 1 through December 15. We have not done an appropriate level of public education because of short staffing issues. Though most people are very considerate of their neighbors and stop burning when asked, we occasionally have the repeat offender that does not care about the regulations or their neighbor.

If we enhanced our public education program on our current practices there is no reason we could not expect further decrease in burning calls. The hiring of our Division Chief of Community Services next month should allow us to spend more time educating the public on acceptable practices of backyard burning.

Egregious backyard burning can be reported to DEQ and they will send a letter notifying the property owner of the complaint and detailing the DEQ burning rules and regulations. In 2012, DEQ recognized they could no longer handle the burning complaints and reduced their response and now considers up to two burning tires a low priority for open burning.

Many nearby cities have initiated complete burn bans but they still respond to a similar number of calls. Some Yamhill County fire agencies have created policy to only respond when the burn complaint is threatening a structure or hostile in nature. This is accomplished through their dispatch center asking appropriate questions of the 911 caller.

With that said, this issue is on the decline per the graph above and currently this issue is not of significance to the fire and life safety of the City of Dallas citizens. Some citizens may disagree because it is a nuisance within their neighborhood but a nuisance does not constitute a reason for requiring volunteer firefighters to respond from away from their families and drive costly apparatus to handle a neighborhood dispute.

Recommendation:

The Fire Department recommends working with dispatch to create a system which only requires our volunteers to respond when it is a true emergency and hold to all other current practices with regards to backyard burning.

1
2
3
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
32

Members Present: Chair Murray Stewart, Micky Garus, LaVonne Wilson, Ken Woods, Jr.

Also Present: City Manager Ron Foggin, Police Chief Tom Simpson, Fire Chief Fred Hertel, Community Development/Operations Director Jason Locke, Engineering and Environmental Services Director Fred Braun, and Recording Secretary Jeremy Teal.

Chair Stewart called the meeting to order at 4:00 p.m.

PUMP STATION CRITERIA

Mr. Braun gave a brief outline of the developed set of standards for temporary pump station which allows us to keep rates level for citizens.

There was discussion regarding the pump station criteria.

Mr. Foggin noted this was a first try at this policy using best practices, adding there was no pressure to move forward. He stated this was a limitation in the current development code and was not part of the master plan.

Mr. Braun noted the criteria would be brought back to the committee for further discussion.

PAVING PROJECTS UPDATE

Mr. Braun reviewed upcoming paving projects, including Levens Street, Uglow Street, and Monmouth Cutoff. He noted north Kings Valley Highway would be repaved, with the state covering three-fourths of the cost.

ENGINEERING DIRECTOR'S REPORT

Mr. Braun stated the flashboards would be installed at the reservoir in the next two weeks. He noted a consultant would be brought in for the water transmission pipeline project between Clay Street and the water plant project.

COM DEV/OPS DIRECTOR'S REPORT

Mr. Locke commented that the crack/seal machine would arrive soon and it would be out this summer. He noted the crew was working with parks on the restroom remodel and dealing with a water issue on Court Street with OMI.

Mr. Foggin stated the importance of the crack/seal machine was to stop water from making its way under the pavement causing damage. Councilor Woods asked if there would be a street list listed on the website. Mr. Locke noted a quadrant would be picked week by week.

ADJOURNMENT

There was no other business and the meeting was adjourned at 4:43 p.m.



THE CITY OF
DALLAS
OREGON

Public Works Committee

AGENDA

April 27, 2015

4:00 PM

Council Chambers
Dallas City Hall
187 SE Court St
Dallas, OR 97338

COMMITTEE

Chair Murray Stewart

Micky Garus

LaVonne Wilson

Ken Woods, Jr.

- A. Call to Order
- B. Pump station criteria
- C. Paving projects update
- D. Engineering Director's report
- E. Com Dev/Ops Director's report
- F. Other
- G. Adjournment

DALLAS PUBLIC WORKS COMMITTEE

REPORT

TO: PUBLIC WORKS COMMITTEE MEMBERS

<i>City of Dallas</i>	Agenda Item No.	Topic: Draft Sewer Lift Station Standards
Prepared By: F Braun	Meeting Date: April 27, 2015	Attachments: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Approved By: Ron Foggin		

RECOMMENDED MOTION:

Accept information on draft sewer lift station standards.

BACKGROUND:

The City does not currently have standards for sewer lift (pump) station design. During the last year, two proposed development projects have suggested the installation of a lift station. In order to entertain the idea of a sewer lift station, the City needs to have standards for the installation of such, especially for the installation of temporary stations.

The City has reviewed standards for the City's of Salem, Corvallis and Portland. Important aspects from each standard have been used in the development of the City of Dallas standards.

Discussion:

Attached is a copy of the draft standards for your information. Some of the key points include:

- 1) Sewage collection within the City shall be provided by the construction of gravity sewers, except where it is demonstrated unfeasible and pumping is required.
- 2) If a sewage lift station is proposed, it shall be the developer's responsibility to demonstrate to the City that a sewage lift station is the most feasible method for sewage conveyance.
- 3) A proposed sewage lift station shall be classified as temporary, unless the location is specifically identified in the latest approved City of Dallas Wastewater Facility Plan.
- 4) All costs of temporary facilities shall be borne by the developer, including the cost of demolition of the temporary facility, and City costs associated with Section X. Telemetry Equipment.
- 5) Upon approval and acceptance by the City, facilities shall be owned by the City. Ownership shall include the lift station site and right-of-way for force main and gravity sewers.
- 6) All operations and maintenance costs of temporary facilities shall be assumed by the properties comprising the area served by the facility that is under direct control of the Developer.

- 7) Site shall not be located within any of the following: Floodway or 100-year flood zones/flood hazard areas as identified by FEMA or Hydraulic Engineering Analysis. Wetland Areas. Existing or proposed street rights-of-way.
- 8) As a minimum, site shall be secured by commercial grade 6-foot high chain-link fence with 3-strand barbed wire or a 6-foot high architectural masonry block wall.
- 9) As required by the City, based on proximity of the facility to other public facilities, residences, or buildings, landscaping and adequate drainage shall be provided in accordance with the surrounding area.
- 10) Potable water shall be provided to the site by hose bibs with anti-siphon devices, water meter, and a backflow prevention device as approved by the City and Health Department.
- 11) Site shall be provided with a lighting system designed to minimize off site impacts while maintaining functionality for maintenance personnel working on lift station components.
- 12) Odor control equipment is required.
- 13) Security Cameras are required.
- 14) Packaged Lift Stations are not allowed. The City's standard for wastewater lift stations is to use submersible pumps installed in a self-cleaning wet well.
- 15) All lift station facilities shall include permanent emergency power generation facilities.
- 16) All electrical, controls, telemetry and odor control equipment shall be housed within a architecturally aesthetic masonry block building, compatible with the neighborhood.

FISCAL IMPACT:

None

ATTACHMENTS:

Department of Engineering & Environmental Services Small Sewage Lift Station Requirements, dated April 2015.



Department of Engineering & Environmental Services Small Sewage Lift Station Requirements

April 2015

Approved By: Ron Foggin, City Manager

Date Approved

Technical Review By: Fred Braun, PE. , Director of Engineering
& Environmental Services

Date Reviewed

CITY OF DALLAS SMALL SEWAGE LIFT STATION REQUIREMENTS

I. Introduction

Sewage collection within the City service area shall be provided by the construction of gravity sewers, except where it is demonstrated unfeasible and pumping is required. If a sewage lift station is proposed, it shall be the developer's responsibility to provide the services of a licensed civil engineer to demonstrate to the City that a sewage lift station is the most feasible method for sewage conveyance.

A proposed sewage lift station shall be classified as temporary, unless the location is specifically identified in the latest approved City of Dallas Wastewater Facility Plan.

These guidelines present basic concepts and general criteria for small sewage lift station facilities with capacities not exceeding 500 gpm. Each lift station shall be reviewed and approved by the City from concept through design, construction, and start-up. The City reserves the right to modify and supplement these requirements, specifications, and drawings to require additional facilities, depending upon the specific project location, limitations, and changes in government regulations and standards.

II. Procedures

Prior to the City's approval and acceptance of a temporary or permanent sewage lift station, developer and developer's engineer shall comply with the following requirements:

A. Design and Construction of Temporary or Permanent Small Sewage Lift Stations

1. Developer's engineer shall acquire and review these guidelines; and the City Standard Specifications and Drawings.
2. Developer and engineer shall request a concept meeting with City staff to demonstrate the need for a sewage lift station and to review requirements, guidelines, criteria, right-of-way, and location of specific project facilities.
3. Developer shall submit all documentation requested by the City in order to demonstrate the need for a sewage lift station, including the following:
 - a. Complete calculations for sewage flows within the entire drainage area tributary to the lift station.

b. Preliminary drawings showing planned gravity collection system within the lift station drainage area, including point(s) of connection to existing or future gravity interceptor sewers, if any.

c. Determination whether the proposed lift station will be temporary or permanent.

d. Calculations establishing the required lift station capacity for initial planned development and ultimate development.

e. Preliminary drawings showing the proposed alignment for the lift station force main including point of discharge.

4. If the City concurs that a lift station is required, developer's engineer shall submit design calculations, drawings, and specifications for City approval as follows:

a. Preliminary design calculations and information including required capacity, hydraulic analyses, pump selections, and system curves, and preliminary site layout. Depending upon location, the City will establish site improvements such as masonry block wall or chain link fence, asphalt concrete or concrete pavement, lighting, access, etc. City will provide specialty specifications to be used.

b. Submit 75% complete construction drawings.

c. Submit legal plat and description for proposed property in fee title for lift station site and easements for force main (if applicable). Legal plats and description shall conform to City of Dallas standards. **Note, final plans will not be signed until this information is received and reviewed for conformance to site plan.**

d. Submit final design and 100% complete construction drawings. As a minimum, construction drawings prepared by the developer shall include a title sheet and detailed site plan. The title sheet shall include a summary of project specific requirements and data (see sample title sheet provided herein). As a minimum, the lift station site plan shall show the following:

- Location of all proposed facilities (referenced to site property lines or easement boundary).

- Location of gravity sewer and manholes. Provide bearings and distances along each gravity sewer segment shown on the Site Plan. Provide invert elevations (inlet and outlet) at each manhole. Gravity sewers shall be labeled with pipe size and material. Manholes shall be labeled with size and Standard Drawing reference.

- Location of emergency bypass manhole directly adjacent to wet well. All collection sewers entering the lift station site shall terminate at the emergency bypass manhole. Emergency bypass manhole shall be provided with a 36" diameter manhole cover and a 24" diameter insert cover. Provide invert elevations at bypass manhole inlet and outlet.

- Location of force main and emergency bypass connection. Provide bearings and distances along each force main segment shown on the Site Plan. Provide center grade elevations at each horizontal and vertical point of inflection (HPI and VPI). Force main shall be labeled with pipe size, material, and class.

- Location of each electrical conduit, pull box, junction box, and PP&L service and transformer. Refer to Conduit Schedule on Electrical Drawings for conduit destinations. Label all conduits shown in the Conduit Schedule.

- Location of all site improvements, including site fencing or masonry block walls and access gate(s). Where masonry block walls are selected for site security, label top of wall and top of footing for each wall segment. Walls shall be constructed level. Walls shall step as required to provide a minimum of 6'-0" height from outside finished grade. Provide a construction detail for masonry block wall and concrete footing showing all dimensions, reinforcing steel, block type, and grouting requirements.

- Finished grades for all proposed facilities and site improvements. As a minimum, grades (elevations) shall be provided for all concrete slabs and roofs, asphalt concrete paving (along pavement edges and flow lines, adjacent to concrete slabs and roofs, etc.), masonry block walls and footings, and finish grading adjacent to site improvements.

5. Prior to construction submit signed final design "approved for construction" PP&L service plan to City.

6. Prior to construction (installation), shop drawing submittals for all proposed equipment and materials shall be submitted to the City for approval.

7. Construction of facilities shall be in accordance with approved construction drawings and City specifications. City will provide inspection of facilities, witness start-up, and provide final inspection of facilities. City staff shall receive operation and maintenance manuals for all equipment a minimum of 10 working days prior to receiving training for station operation and equipment operation. A factory trained equipment manufacturer's representative shall provide the training.

B. Demolition of Temporary Small Sewage Lift Stations: Plans for temporary lift stations shall include construction drawings and demolition drawings. Submittal of demolition documents (drawings and specifications) for City review shall coincide with submittal of the corresponding construction documents. Procedures required for City approval of temporary lift station demolition documents are as follows:

1. Developer's engineer shall acquire and review Detailed Provisions and the Standard Specifications.

2. Developer and engineer shall request a concept meeting with City staff to discuss future diversion of sewage flow from the temporary lift station to a gravity sewer, deactivation and demolition of lift station facilities, and the anticipated schedule for performing the work. Engineer shall provide City with a preliminary cost estimate for the demolition work.

3. Submit 75% complete demolition drawings and specifications (if requested by City).

4. Submit 100% complete demolition drawings. As a minimum, demolition drawings prepared by the developer shall include a detailed site plan. A sample demolition site plan is included herein for reference. The demolition site plan is included herein for reference. The demolition site plan shall show the removal of all facilities not addressed by the Standard Drawings. As a minimum, the site plan shall show demolition of site improvements including fencing, walls, gates, paving, driveways, lighting, electrical, and drainage facilities.

5. Submit a detailed cost estimate for performing the lift station demolition work. Depending upon the proposed re-use of the temporary lift station site, developer may elect to require more extensive demolition, including the complete removal of all below grade facilities.

III. General

A. Raw sewage lift stations shall be designed and constructed in accordance with City requirements herein, City standards (drawings and specifications), good engineering practice, applicable government regulations, Polk County Health Department and Oregon Department of Health Services (DHS), Oregon Department of Environmental Quality (DEQ), Oregon OSHA, Standard Specifications for Public Works Construction (City Standard Specifications), International Building Code, Oregon Specialty Building Codes, National Electric Code, Uniform Fire Code, and as approved by the City.

B. Facilities shall be designed by a licensed civil engineer, registered in the State of Oregon, experienced in the design of wastewater lift station facilities. Prior to commencing design, the Engineer shall submit to the City a statement of qualifications showing that he has designed a minimum of five sewage lift stations. The statement of qualifications shall include the name, client, capacity, and construction cost for each sewage lift station. Drawings and specifications shall be submitted for review and approval by the City. Soils investigation shall be performed for the lift station site and related interceptor sewer and force main. Sewer, force main, and lift station construction drawings shall be submitted simultaneously; sewer and force main shall include plan (1"=40') and profile (vertical 1"=4', horizontal 1"=40'), and lift station shall include site plan and standard drawings showing structural, mechanical, and electrical plans, sections, and details with project specific requirements. Sewer and force main plans shall be prepared in accordance with the City's guidelines.

C. All costs of temporary facilities shall be borne by the developer, including the cost of demolition of the temporary facility, and City costs associated with Section X. Telemetry Equipment.

D. Upon approval and acceptance by the City, facilities shall be owned by the City. Ownership shall include the lift station site and right-of-way for force main and gravity sewers. Gravity sewers and force main shall be constructed on City property, City right-of-way, or within public right-of-way whenever possible. Easements for gravity sewers and force main will only be considered under special conditions. All right-of-way and easement documents shall be submitted and approved by City prior to approval of the construction drawings. All right-of-way and easement documents shall be conveyed to the City and recorded prior to acceptance of facilities.

E. All operations and maintenance costs of temporary facilities shall be assumed by the properties comprising the area served by the facility that is under direct control of the Developer. The Developer shall supply the City with a cost estimate of the facility O&M costs for a 6-month period. The Developer shall deposit this amount with the City. The City will hold this deposit in a special trust account that will be used to fund O&M costs for the facility. When the account value is approximately zero, the City will begin monthly sewer utility assessments on the properties within the District. The assessments will be made on a proportional basis, considering, but not limited to sewage flow.

F. Prior to completion of the facility and City acceptance, complete records shall be furnished to the City including:

1. As-built record drawings.
2. Final approved shop drawings and submittals for all equipment and materials.
3. As-built electrical and control diagrams.
4. Minimum three copies of Operation and Maintenance Manuals for all equipment.
5. City staff training for station operation and equipment operation and maintenance.
6. **Right-of-way, grant deed, and easement records.**
7. All construction and operating permits.
8. Warranty Bonds for the 2-year maintenance period.
9. A cash deposit in an amount equal to 6 months of operations and maintenance costs for the facility.
10. A receipt, demonstrating payment provided to City for all costs associated with Section X. Telemetry Equipment.

IV. Capacity

A. The theoretical calculated peak wet-weather flow shall be based on the development to be serviced within a 20-year period, with consideration of the entire drainage area and master planned facilities. The design flow shall be determined by increasing the theoretical calculated peak wet-weather flow determined from entire drainage area by 20% (i.e. peak flow x 1.20 = design flow). Pumping units and wet well size shall be selected based on the design flow. Flows shall be provided for initial and ultimate conditions. Permanent lift stations shall be located to maximize sewage collection for the entire drainage area and shall conform to the City's Wastewater Facilities Master Plan. Temporary lift stations shall be located adjacent to the alignment of the future gravity trunk line that will serve the area. Lift station pumping capacity may be dictated by minimum acceptable force main size and velocity criteria herein.

B. Where Master Plan facilities have not been established, the developer shall be responsible to prepare wastewater flow projections for the drainage area. As a minimum, the following shall be used in the flow projections:

- a) Community Growth Rate = 2.0 %
- b) I & I Rate for new development = 600 gal/day/acre
- c) Dry weather wastewater flow = 125 gpcpd
- d) RL District Population Density = 2.6 persons/dwelling
- e) RM District Population Density = 2.4 persons/dwelling
- f) RH District Population Density = 2.2 persons/dwelling
- e) Peaking Factors: 1.5 = PIF/PDADF; 3.75 = PIF/DWPHF

C. Hydraulic calculations and system/pump curves for pump sizing and required capacity shall be submitted for both initial and ultimate peak flows. System curves shall be developed for friction coefficients of C=120 and C=140. System curves shall include minor friction losses (i.e. fittings and valves in discharge piping at wet well and fittings in force main). Pumps shall be selected based on friction coefficient of C=140. Developer's engineer shall select a minimum of three City-approved pump manufacturers and plot C=120 and C=140 system curves on each pump curve.

D. Downstream sewers shall be evaluated to ensure adequate capacity is available for receiving lift station sewage flow.

V. Sewage Lift Station Site

A. Site shall be of adequate size to operate, maintain, and repair the lift station facilities incorporating access for truck cranes and sewer cleaning trucks (Vactor trucks). Site shall not be located within any of the following:

- 1) Floodway or 100-year flood zones/flood hazard areas as identified by FEMA or Hydraulic Engineering Analysis.
- 2) Wetland Areas.

3) Existing or proposed street rights-of-way.

B. All permanent sewage lift station sites require the parcel to be deeded to the City. Before construction, a Grant Deed with legal description and plat map must be prepared, approved, and recorded by the City.

C. As a minimum, site shall be secured by commercial grade 6-foot high chain-link fence with 3-strand barbed wire or a 6-foot high architectural masonry block wall. Access gate(s) shall include minimum 16-foot wide double gate for vehicles. Chain-link or architectural security fencing and gates shall always be provided.

D. Site shall be provided with asphalt concrete pavement or concrete pavement, and adequate drainage facilities. Access driveway(s) to the site shall be 16' wide (minimum) and constructed of concrete pavement. Asphalt concrete pavement or concrete pavement shall be designed to accommodate AASHTO H20-44 vehicle loading.

E. As required by the City, based on proximity of the facility to other public facilities, residences, or buildings, landscaping and adequate drainage shall be provided in accordance with the surrounding area.

- a. Landscaping shall be drought tolerant, xeriscape unless otherwise required.
- b. Where landscaping is required, a permanent irrigation system shall be supplied.
- c. Specifications will be prepared to ensure that a minimum one year warranty and upkeep of plantings and irrigation equipment shall be provided by the installer.
- d. The site shall be designed and constructed so that there is no ponding.
- e. Each site shall be designed with facilities to treat stormwater for improved stormwater quality. The treatment shall be done by non structural methods, preferably bioswales, and according to the City's stormwater criteria. If bioswales are not feasible, then the Engineer shall research other methods and submit the proposed methods to the City for approval.
- f. Areas with asphalt or other impermeable surfaces shall be designed, to have a slope of between 2 percent and 5 percent. The only exception is the access drive which may have a slope of up to 12 percent.

F. Potable water shall be provided to the site by hose bibs with anti-siphon devices, water meter, and a backflow prevention device as approved by the City and Health Department.

G. All lift stations shall have a street address sign affixed to the fence at the front of the station.

H. Site shall be provided with a lighting system designed to minimize off site impacts while maintaining functionality for maintenance personnel working on lift station components. As a minimum, each site shall be provided with a 55W "area light" activated by a photocell and a 150W "work light" activated by a manual switch located in the Main Control Panel.

I. Odor control components include: concrete slab for emergency shower and eyewash station, concrete pad for City furnished chemical storage tank, 120v receptacle for City furnished chemical feed pump, and conduit sleeve from receptacle stanchion to wet well. Emergency shower and eyewash station slab shall be located on the side of the chemical tank pad where the chemical delivery truck will be logically positioned.

J. Security Cameras

- a. All offsite facilities shall be equipped with pole mounted security cameras capable of transmitting real time pictures through a radio link separate from the City's SCADA system.
- b. Some facilities may require security cameras located within vaults/buildings.
- c. Security camera requirements shall be coordinated with the City.

VI. Force Main

A. Force main size (diameter) shall be based on the following:

1. Lift station design flow rate (one pump operating) with minimum velocity of 3 fps and maximum velocity of 6 fps.
2. Minimum size shall be 4-inch inside diameter. Where 4-inch mains are required, two (2) parallel pipelines shall be constructed for system reliability. Each force main shall be provided with the necessary valves and fittings to allow operation of either force main or both force mains.
3. Where a single 4-inch force main is inadequate to convey the peak flow rate (i.e. force main velocity exceeds maximum allowable velocity), the next larger size pipe diameter shall be used.
4. Where force main length exceeds 2,000 L.F., two (2) parallel pipelines shall be constructed for system reliability. Each force main shall be provided with the necessary valves and fittings to allow for operation of either force main or both force mains.

B. Material shall be PVC per ANSI/AWWA C900 (minimum DR-18). Pipeline shall be constructed using restrained joints per City Standard Drawing B-663.

C. Pipeline profile shall avoid intermediate high points if feasible. All high points shall be provided with combination sewage air and vacuum valve installation and special corrosive resistant pipeline materials.

D. Onsite pipe cover shall be minimum 36-inches.

E. Separation from water lines shall be in accordance with Oregon DHS.

F. Where force main connects to a new discharge manhole, the discharge manhole shall be T-locked. Where force main connects to an existing discharge manhole, the discharge manhole shall be lined per in accordance with City Specifications.

VII. Lift Station

A. Raw sewage lift station shall be the submersible type with 100% redundancy, electrical service, switchgear, emergency power, and appurtenances. The City's standard for wastewater lift stations is to use submersible pumps installed in a self-cleaning wet well. Packaged pump stations are not allowed. All electrical, controls, telemetry and odor control equipment shall be housed within a architecturally aesthetic masonry block building, compatible with the neighborhood.

B. Raw Sewage Pumps

1. Number of pumps furnished shall provide complete redundancy. Minimum of two identical pumps each sized for 100% station capacity shall be installed. Variable speed pumps shall be provided.

2. Pump Requirements:

a. Raw sewage non-clog submersible pumps. Pump impellers shall be enclosed single port, recessed vortex, or grinder type. The specific pump impeller type to be used for the project will be determined by the City based on application and availability.

b. Minimum 4-inch discharge.

c. Ability to pass minimum 3-inch diameter sphere.

d. Maximum 1800 rpm explosion-proof submersible motor with moisture and temperature sensors.

e. Motor and cooling rating suitable to run dry for 15 minutes without damage to the pump.

- f. UL or Factory Mutual explosion-proof rating without being submerged.
- g. Constructed of corrosion resistant materials and provided with corrosion resistant factory coating.
- h. Acceptable manufacturers are Flygt, Essco, Wilo-EMU, Fairbanks-Morse, Wemco, Flowserve, and ABS.
- i. Prior to acceptance, pump tests shall be performed to verify pump curves and system head curves.
- j. Variable Frequency Drives: Provide 18-Pulse drive packages for all motors > 20 hp and 6-Pulse drive packages for motors < 20 hp.

3. Pump Mounting and Removal:

- a. Provide rail-type guide system with intermediate supports to allow pump removal without removal of discharge piping or entering the wet well. All materials to be 316 stainless steel.
 - b. Provide 316 stainless steel cable or chain fastened to each pump. The City will utilize their crane truck for removal of pumps.
 - c. Electrical cable(s) shall be spliced at a junction box located 30-inches above wet well roof and meet all provisions of the NEC.
4. Spare parts shall include one set of seals and bearings.

C. Wet Well Requirements

1. Class C-50 (minimum) precast reinforced concrete low-head pressure pipe (RCPP) per ASTM C361 constructed watertight, with concrete base and cover. Wet well shall be placed on a 12-inch thick mat of crushed aggregate base per City Standard Specifications. Interior concrete surfaces (wall and roof) shall be coated with coal tar epoxy unless noted otherwise in the drawings and specifications. Wet well bottom shall be provided with concrete fillets sloping towards the pumps.
2. Wet well shall be sized based on maximum pump motor cycling time, but not less than 15 minutes, and to provide adequate spacing for installation of two pumping units (see Table on Standard Drawing G-1 for wet well size versus flow capacity).
3. Concrete roof shall have a hatch opening (one hatch for both pumps) for pump removal/installation. Hatches shall be all stainless steel construction as manufactured by U.S.F. Fabrication, Flygt, Bilco, or equal, with lockable diamond plate covers, safety chain, spring assisted hinges, and swing-out interior safety grating.

4. Discharge piping inside the wet well shall be flanged, Schedule 40 316 stainless steel. All stainless steel piping, fittings, and flanges shall be shop welded (field welding not permitted). All welds shall be pickled and passivated. Discharge piping shall be designed for a maximum velocity of 6 to 8 feet per second. Discharge piping shall be properly supported with pipe supports.

5. Pipe supports, brackets, and all other equipment and fasteners within the wet well shall be 316 stainless steel.

6. All collection sewers shall join and enter a single manhole just prior to entering the wet well. Only one sewer shall enter the wet well to allow the City to plug influent sewer and bypass around wet well for maintenance and repairs.

D. Pump Discharge Piping Out of Wet Well

1. Discharge from each pump shall exit the wet well below grade, then rise above grade for location of check valves and isolation plug valves.

2. Each pump shall be provided with 150 lb swing check valve (AWWA C508 with bronze trim) and shut-off valves (eccentric non-lubricated plug valve). Sewage combination air and vacuum valves shall be provided at high points.

3. A bypass connection to the force main shall be provided for station bypass with portable pumps.

VIII. Electrical and Controls

A. All electrical equipment shall be in accordance with the NEC and, where applicable, meet all requirements for hazardous locations. Developer shall coordinate with the electrical utility providing electrical service. Station shall be provided with a separate utility transformer and metering section with main circuit breaker. Utility transformer and metering section shall be located in a separate fenced-in area. Primary power to the station shall be 480 volt, 60 Hz, 3-phase service per utility providers' standards. Single-phase 120-volt power shall be provided for lights, controls, convenience receptacles, and miscellaneous equipment. Provide a minimum of four spare 20A, 120-volt circuit breakers. All conduit shall be run concealed below grade or in concrete slabs, and shall not impose tripping or maintenance hazards. All exposed conduit shall be pvc-coated rigid steel pipe.

B. Electric switchgear shall be mounted in a NEMA 1 gasketed enclosure (with NEMA 3R wrapper) Motor Control Center with removable buckets, and shall include, as a minimum, main circuit breaker, motor starters with thermal overload protection, selector switch (hand-off-auto), run and fail lights, and elapsed time meter. Switchgear shall be

General Electric, Allen-Bradley, or Square D (no substitutes). The MCC doors shall face north or east.

C. Complete controls for automatic pump operation shall be provided..

D. An electrical short circuit/coordination study, arc flash hazard study, and field testing of the electrical system shall be performed.

IX. Emergency Power

All lift station facilities shall include permanent emergency power generation facilities. These facilities shall consist of an engine driven emergency power generator with integral fuel storage tank and an automatic transfer switch. Permanent emergency power generation facilities shall conform to the following:

A. Provide a prefabricated skid-mounted diesel engine driven, radiatorcooled, automatic emergency standby generator to power the lift station during normal power failure.

B. Generator set shall be as manufactured by Olympian (supported by Caterpillar), Katolight, or Generac.

C. Generator set shall automatically start upon failure of normal power and be sized to operate lighting loads, and both pumping units (duty and standby) with maximum voltage DIP of 20 percent.

D. Generator set shall be provided with a weatherproof sheet metal housing. Exhaust system shall be fully insulated and equipped with a critical grade silencer.

E. Generator set shall be equipped with all sound attenuating equipment, enclosures, and devices necessary to conform with applicable City or county noise ordinances. Design Engineer shall provide all generator sound attenuating measures necessary to comply with the applicable noise ordinances.

F. Fuel tank for generator shall be base type mounted with unit. Tank shall be double walled welded steel sized for a minimum of 36 hours of continuous operation at 100% of generator capacity. Tank shall have secondary containment and alarm floats for low fuel and fuel in secondary containment area. Facilities shall meet local fire department criteria.

G. Generator shall have the highest available tier rating, in accordance with EPA Tier Certification requirements.

H. Automatic transfer switch (ATS) shall be provided to switch from normal utility power to standby emergency power upon normal power fail, and switch back to normal power

when restored. ATS shall have indicating lights for normal power, emergency power, and a digital panel indicating volts and amps. Acceptable manufacturers are Olympian, ASCO, or Russelectric.

X. Telemetry Equipment

City will furnish, install, and program telemetry equipment system, including remote telemetry unit (RTU) to transmit alarm conditions to existing SCADA system. Contractor shall terminate all alarm signals on terminal blocks in the Main Control Panel (MCP). Contractor shall connect from MCP terminal blocks to City furnished RTU terminal block. Developer is responsible for all City incurred costs for furnishing, installing and programming telemetry equipment.

