



**CLINTON CITY COUNCIL MEETING MINUTES
CITY HALL
2267 North 1500 W Clinton UT 84015**

**MAYOR
L. Mitch Adams**

**CITY COUNCIL MEMBERS
Anna Stanton
Mike Petersen
Barbara Patterson
TJ Mitchell
Marie Dougherty**

This meeting was attended electronically by Councilmember Stanton

Date of Meeting	May 11, 2021	7:01 PM	Called to Order: 7:03 PM
Staff Present	City Manager Dennis Cluff, Community Development Director Valerie Claussen, Police Chief Shawn Stoker, Public Works Director David Williams, Fire Chief David Olsen, Recreation Director Bruce Logan and Lisa Titensor recorded the minutes.		
Citizens Present	Dereck Bauer, Bryce Wilcox, The Peterson's, Ranae Stoker, Jake Fowers, Danielle Fowers, Rob Elggren, David Brown with Connex		
Pledge of Allegiance	Councilmember TJ Mitchell		
Invocation or Thought	Councilmember Mike Petersen		
Roll Call & Attendance	Mayor Adams, Councilmember Marie Dougherty, Councilmember TJ Mitchell, Councilmember Barbara Patterson, Councilmember Mike Petersen, Councilmember Anna Stanton attended electronically.		
Public Input	There was none.		

The Council recognized Karen Peterson for her seven years of service to Clinton City on the City Council and as Chairman of the General Plan Committee.

A. EMPLOYEE OF THE MONTH FOR APRIL 2021, POLICE OFFICER JAKE FOWERS

Petitioner	Dennis Cluff, Police Chief Stoker
Discussion	<p>Chief Stoker reported that Jake Fowers was hired in July 2014. He came to Clinton highly recommended with prior experience from the Logan Police Department and as a reserve officer with Syracuse. His time as an Officer in Clinton has been very successful. He is currently assigned as a Detective. Previously he has been on patrol and was the K9 Handler to Mojo and Rook. Detective Fowers, and his wife Danielle were raised in the area and both are public servants who make a difference in our community.</p> <p>Chief Stoker went on to say that Detective Fowers is effective at relating to and communicating with people while properly evaluating situations. He has demonstrated skill in working with individuals in crisis, those who have been victims of crime, survivors of heinous offenses, suspects in the interview room, violent offenders, and the neighborly citizen looking to chat. This talent has helped maintain control and bring numerous incidents to a successful resolution.</p> <p>Detective Fowers has been in his current assignment for just over one year. During this time, he has shown remarkable progress in his investigative skills contributing to his overall abilities and development as an Officer. Detective Fowers is looked to, trusted, and respected by experienced and new Officers alike. He represents Clinton City, the Police Department, and our Citizens exceptionally well and is a well-respected member of the Law Enforcement community. He deserves this</p>

	<p>recommendation for Employee of the month for April 2021.</p> <p>Officer Fowers stated he enjoys working for Clinton City and works with incredible officers including the newly appointed Chief Stoker.</p> <p>Mayor Adams thanked Officer Fowers for his service to the community. He presented him with an award and gift card.</p>												
B. EMPLOYEE SERVICE AWARDS FOR THE FIRST QUARTER OF 2021													
Petitioner	Dennis Cluff												
Discussion	<p>Mayor Adams recognized the following employees for their service to Clinton City.</p> <table border="0"> <tr> <td>Court</td> <td>Shannon Mullins</td> <td>20 years</td> </tr> <tr> <td>Treasurer</td> <td>Amber Fowles</td> <td>10 years</td> </tr> <tr> <td>Police</td> <td>Cathy Miller</td> <td>10 years</td> </tr> <tr> <td>Recreation</td> <td>Abby Walker</td> <td>5 years</td> </tr> </table> <p>He stated the City is grateful for the hard work and great attitudes exhibited in the work place by these employees.</p>	Court	Shannon Mullins	20 years	Treasurer	Amber Fowles	10 years	Police	Cathy Miller	10 years	Recreation	Abby Walker	5 years
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Recreation	Abby Walker	5 years											
C. PUBLIC HEARING - <u>RESOLUTION 13-21</u>, AMENDMENTS TO FY 20-21 BUDGET													
Petitioner	Dennis Cluff												
Discussion	<p>Mr. Cluff explained this budget amendment includes amendments to the General Fund, Fund #38 – Capital Improvement, and Fund #44 – 800 North (2000 W to 3000 W) Project.</p> <p><u>General Fund Expenses:</u> Computer system/server upgrades = \$60,000; Transfer to the Capital Improvement Fund #38 = \$1,150,000; and, Transfer of part of the County funding for Phase II of the 800 N project = \$1,000,000.00</p> <p>Mayor Adams opened the public hearing at 7:19 PM, with no public comment, the public hearing was closed.</p>												
CONCLUSION	<p>Councilmember Mitchell moved to adopt Resolution 13-21, approving the amendments to the FY 20-21 Budget. Councilmember Petersen seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>												
A. PUBLIC HEARING – ADOPTION OF THE FY 2021-22 TENTATIVE BUDGET													
Petitioner	Dennis Cluff												
Discussion	<p>Mr. Cluff reported the Tentative Budget as presented includes the changes to the DRAFT Tentative Budget the City Council requested at the April 28th Budget Work Session when the DRAFT Tentative Budget was approved and this Tentative Budget Hearing was set. The adjustments to project funds also reflect current year and carryover work completion.</p> <p>He explained that normally the Council would set a hearing for the June 22nd City Council meeting for adoption of the Final Budget and Tax Rate Certification, but this year the City needs a Truth in Taxation Hearing for August 10th to address a Property Tax increase for the new Paramedic program. Actual proposed tax rates and valuations will not be available until the middle of June, so notices to the</p>												

	<p>public of the tax increase will have to be subsequent as required by the tax laws.</p> <p>He suggested the Council set public hearings to adopt the FY 2021-22 final budgets for the RDA and Sanitary Sewer Special Service District for Tuesday June 22, 2021.</p> <p>Mayor Adams opened the public hearing at 7:22 PM and with no public comment, closed the public hearing at 7:23 PM.</p>
MOTION	<p>Councilmember Petersen moved to suspend the regular City Council meeting and move into the RDA & SSSSD meetings to adopt their tentative budgets. Councilmember Patterson voted in favor. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>
<p>At 7:32 p.m. the City Council meeting reconvened.</p>	
CONCLUSION	<p>Councilmember Patterson moved to adopt the Tentative Budget for FY 2021-22, and set Public Hearings for the Final RDA and SSSD Budgets on Tuesday June 22, 2021 at 7:05 PM. (The City Council will hold a Truth In Taxation Hearing for approval of the regular budget in August.) Councilmember Petersen seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>
<p>B. AUTHORIZE PURCHASE OF LIGHTING AND SOUND WALL FOR MEADOWS PARK PICKLEBALL COURTS</p>	
Petitioner	<p>Dennis Cluff, David Williams, Bryce Wilcox</p>
Discussion	<p>Public Works Director Dave Williams explained the initial pickleball court lighting bids were too high for inclusion in the initial project bids. Also it has been determined that a sound wall is needed on the west side of the courts to mitigate noise and to be good neighbors. Subsequently staff has come up with a plan to install the sound wall and the light fixtures with City crews and hire an electrician to connect the electrical circuitry and equipment.</p> <p>The project fund has \$69,000 left. The cost of the sound wall is \$12,832.06 The cost of the lighting is \$62,778.00 and installation is anticipated at approximately \$18,000.00. For a total project cost of approximately \$93,610.06.</p> <p>Additional Park Construction Reserve funds of \$24,610.06 will be needed to cover the costs to finish this project.</p> <p>-----</p> <p>Pickleball court sound screen with city crews installing \$12,832.06 Pickleball lighting materials \$62,778.00 Pickleball lighting installation by city crews and hiring an electrician \$18,000.00 Total \$93,610.06</p>
CONCLUSION	<p>Councilmember Patterson moved to authorize the purchase of the lighting fixtures, sound wall and to hire an electrician to perform the final installations. Councilmember Dougherty seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>
<p>C. REQUEST FOR INCREASE IN CITY'S GARBAGE COLLECTION SERVICES RATE PER CAN FROM ROBINSON WASTE SERVICES</p>	
Petitioner	<p>Steve Robinson, Dennis Cluff</p>

<p>Discussion</p>	<p>Mr. Cluff reported Robinson Waste Services, Inc (RWS) is entering their last year of the 5-year extension granted in May of 2017. Part of that agreement was to allow needed rate increases after the first 3 years, based on the CPI. RWS is requesting a 1.5% increase to begin July 1, 2021; this is less than the related CPI's for solid waste collections. If granted, this would increase the cost to the City from \$4.34 to \$4.41 for the 1st can and from \$2.03 to \$2.06 for the 2nd and more cans.</p> <p>This potential increase in cost of collections has been factored into the current Tentative Budget for FY 21-22. As previously discussed, no proposed increase in the citizen's collection rate is currently planned. For the moment the increase in the collected can cost would be made up with the Solid Waste Fund balance. As the economy recovers the Enterprise Fund as well as some of the others that may be in need of additional funds to cover operational costs may need to be evaluated.</p>
<p>CONCLUSION</p>	<p>Councilmember Dougherty moved to grant a 1.5% can collection rate increase to Robinson Waste Services, Inc., modifying their contract with the City. Councilmember Mitchell seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>
<p>D. RESOLUTION 14-21, VICTIM'S ADVOCATE PROGRAM-INTERLOCAL COOPERATION AGREEMENT WITH SYRACUSE AND SUNSET CITIES</p>	
<p>Petitioner</p>	<p>Dennis Cluff, Chief Stoker</p>
<p>Discussion</p>	<p>Clinton has been participating in the Victim Advocate program with Syracuse City since 2017. Sunset City is now joining with this grant program through the State. The grant is for 2021 to 2023 and pays for most of the Advocacy program with the cities paying for proportionate shares based on client count. Clinton's cost will be \$7,317.36 for 2021-22 and \$11,757.70 for 2022-23.</p> <p>Chief Stoker reported that this program has helped many victims of a crime that need shelter, counseling, information on court proceedings and other advice and needed comfort while dealing with the circumstances associated with being a victim.</p> <p>He explained this is a needed and helpful service for the community. The increase in price is due to changes in the grant. The number of citizens served for Clinton had increased and is currently at 46%.</p>
<p>CONCLUSION</p>	<p>Councilmember Petersen moved to approve Resolution 14-21, authorizing the City to participate with Syracuse and Sunset Cities with a Victim's Advocate Grant and Program for \$7,317.36. Councilmember Patterson seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>
<p>E. APPROVAL OF 2021 CLINTON CITY ELECTION POLLING LOCATION AND COUNTY VOTE CENTERS</p>	
<p>Petitioner</p>	<p>Dennis Cluff</p>
<p>Discussion</p>	<p>Due to the vote by mail process utilized by the County and required by the State; only one polling/voting center in each city is required for the 2021 municipal election. Traditionally the City Recreation Center has been the main voting center and is known as such by the City residents. By State law, local residents can vote at any of the approved County vote centers. These vote center locations are listed below as Attachment A. This designation by the Council is required as part of the upcoming election process.</p>
<p>CONCLUSION</p>	<p>Councilmember Mitchell moved to approve the City Recreation Center as the Clinton Polling Location and the other County Vote Centers for the 2021</p>

	<p>Primary and General Elections. Councilmember Patterson seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>
<p>F. <u>RESOLUTION 15-21- TELECOMMUNICATIONS FRANCHISE AGR WITH CONNEXT NETWORKS, LLC</u></p>	
<p>Petitioner</p>	<p>Dennis Cluff, David Brown - Exec Dir of Connex</p>
<p>Discussion</p>	<p>Mr. Cluff explained Connex Networks, LLC, of Ogden, Utah seeks a Franchise Agreement with Clinton City in order to install and provide fiber optic cable within the City. This Agreement allows Connex to utilize the City rights-of-way for installation of fiber optic cable and equipment. The Franchise Agreement includes, as an attachment, Clinton City’s Telecommunications Rights of Way Ordinance.</p> <p>David Brown stated Connex is looking forward to working in Clinton. They intend to continue to work with City with subsequent agreements that are in both parties’ best interest.</p> <p>Councilmember Dougherty stated that Utopia is a Quasi Governmental organization that many surrounding cities have used to install fiber. She has been contacted by residents who are both in favor of fiber installation with Utopia and also who just want fiber brought into the City with a private enterprise. She feels the public should understand the City’s reasoning in moving forward with a franchise agreement with Connex.</p> <p>Mayor Adams explained that the City has been in talks with Utopia for fiber installation which would require the City to guarantee a 25 year bond pledged with franchise fees. Even if Utopia were to come in, they would not be allowed to be exclusive in the City. There is the potential for competitors to come in and reduce the Utopia take rate, which could then cost the City a substantial amount of money over the 25 year period. Another concern expressed by Mayor Adams is that during discussions with Utopia, they have indicated they have not nor intend to pay off bonds early. Connex approached the City and is willing to bring fiber to the City without requiring any payment from the City.</p> <p>Councilmember Dougherty explained that she spoke to the executive director of Utopia about the bonds as well. She called Alex Jensen who is the City Manager of Layton but is also the Chairman of the Board for UIA who manages Utopia. He explained to her that there are eleven cities that are member cities with Utopia. Other cities such as Clinton would be considered contracted cities. Member city needs will be prioritized over a contracted city.</p> <p>Clinton initially considered Utopia because they weren’t aware there were any other options. Connex is a private company which is similar to Utopia and will provide an option for full city build-out with an open network at no cost to the City. This decision has not been taken lightly. The City does not want to enter into a bond situation without any control of the payoff.</p> <p>Councilmember Petersen commented that the City has already experienced frustrations with another quasi government organization which manages the City’s solid waste and the negative impact its management has had on the City. He feels this is a good reason to stay away from entering into another quasi government agreement. He does not feel the City should be an owner of this type of activity but that it should remain with the private sector. The City should have limited control as identified within the franchise agreement. He feels this is a good</p>

	<p>opportunity to provide fiber to the City.</p> <p>Councilmember Dougherty added that there is a good argument that broadband is an essential infrastructure. She agrees in general, but feels that this kind of infrastructure allows a broader level of innovation. She feels it should be addressed differently. It is important to complete full city build-out and reduce the potential of a monopoly which Connex has agreed to do.</p> <p>Mr. Brown stated that installation will be driven by the residents; they will start in areas with the most interest and branch out from there citywide. He is a huge fan of the open network & transparency. Connex is working with excellent internet service providers. They will be ready to announce the companies very soon. He appreciates that Utopia brought this unique concept into Utah. Connex is able to provide an alternative option.</p> <p>Councilmember Dougherty explained that Utopia needs the money from bonds from the contract cities to pay off their debts; that's why they will not allow the cities to use higher than expected take rate to pay off their own bonds early. Twenty five years is a long time to carry a bond and continually meet the take rate. Connex has agreed to negotiate with the City to complete a full City build-out with an open network. The City should move forward with Connex as its own entity with a franchise agreement. If an issue arises that the entire City cannot be serviced, the City may need to negotiate a supplemental agreement based on specific neighborhood needs.</p> <p>Mayor Adams reinforced that the City's goal is to provide this service to the entire City. He feels this franchise agreement is a good place to start in getting this service into the City.</p> <p>Mr. Brown stated that they are currently finishing up fiber installation in Farr West. Clinton City will be the fourth franchisee of Connex. The Connex website provides residents with up to date information and progress on the specific projects. They will do their very best to accommodate some neighborhoods where there is little interest and will go back and complete projects as interest increases in certain areas. The intent is to provide service to the entire city of Clinton.</p> <p>Councilmember Dougherty stated that she has contacted Farr West about their experience with Connex. They highly recommend Connex and stated they have a great reputation of follow through. She also likes that Connex offers different levels of service at varied costs.</p> <p>Mr. Brown informed the Council that if this agreement is approved, they will begin an awareness campaign with mailers, door hangers and social media right away. They anticipate starting building in 3 to 6 months and completing the project well within two years.</p>
<p>CONCLUSION</p>	<p>Councilmember Mitchell moved to adopt Resolution 15-21 approving the Franchise Agreement with Connex Networks, LLC. Councilmember Petersen seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.</p>
<p>G. <u>TO BE CONTINUED TO JULY 13, 2021 PUBLIC HEARING - ORD 21-01, A REQUEST FOR THE DISCONNECTION OF PROPERTIES FROM CLINTON CITY -PARCELS 14-038-0083, -0084 &14-029-0049</u></p>	

Petitioner	Mike Hatch, Teraform Development Report by: Valerie Claussen, Community Development
Discussion	The applicant requested this item to be continued to the July 13, 2021 City Council Meeting.
CONCLUSION	Councilmember Petersen moved to continue this item to the July 13, 2021 City Council meeting. Councilmember Patterson seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.
H. <u>ORDINANCE 21-01E</u>, AMENDING CITY CODE CHAPTER 5 OF TITLE 9, ENGINEERING AND STANDARD SPECIFICATIONS AND STANDARD DRAWINGS	
Petitioner	Dennis Cluff, David Williams, Bryce Wilcox
Discussion	Mr. Wilcox explained that Chapter 5 of Title 9 deals with the culinary water pressure pipe standards and specifications for Clinton City. These amendments require PVC C900 pipe for all future water mains, removing the option of ductile iron pipes. Also pipe installation locations are specified for the different types of City street areas, i.e. residential, collector and arterial. These changes in the standards are reflections of improved practices and standards of materials that staff is using and wants to use in order to maintain the culinary water system at its high quality of service. The updates to Chapter 5 of Title 9 are included as Attachment B.
CONCLUSION	Councilmember Mitchell moved to adopt Ordinance 21-01E, amending Chapter 5 of Title 9. Councilmember Petersen seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.
I. RESOLUTION 16-21 - INTERLOCAL COOPERATION AGREEMENT AMENDMENT BETWEEN CLINTON CITY AND DAVIS COUNTY TO INSTALL A TRAIL ALONG THE 2050 N COUNTY STORM CHANNEL	
Petitioner	Community Development
Discussion	This is an Amendment to the October 16, 2007 Interlocal Cooperation Agreement with Davis County which allowed the City to install water lines and a trail along the County's 2050 Storm Drainage Channel. Under the existing Agreement the City could extend the trail to 4000 West, but this Amendment allows the trail to be extended to Howard Slough, approximately 4500 West. This is part of the current Trail Extension Project funded with County and State grants.
CONCLUSION	Councilmember Dougherty moved to adopt Resolution 16-21, amending the existing Interlocal Cooperation Agreement with Davis County allowing the City to install a trail, water and sewer lines along the 2050 N County Storm Drainage Channel. Councilmember Patterson seconded the motion. Voting by roll call is as follows: Councilmember Dougherty aye; Councilmember Patterson, aye; Councilmember Petersen, aye; Councilmember Mitchell, aye; Councilmember Stanton, aye.
Approval of Minutes	Councilmember Petersen moved to approve the minutes of the April 13, 2021 City Council Meeting and the April 28, 2021 Special City Council Work Session. Councilmember Patterson seconded the motion. Councilmembers Mitchell, Patterson, Petersen, Stanton and Dougherty voted in favor of the motion.
Accounts Payable	Councilmember Patterson moved to pay the bills. Councilmember Mitchell seconded the motion. Councilmembers Mitchell, Patterson, Petersen, Stanton and Dougherty voted in favor of the motion.

Planning Commission Report	<ul style="list-style-type: none"> Ms. Claussen reported the May 4, 2021 Planning Commission meeting was cancelled. The Planning Commission will meet on May 18, 2021. She then reported on several projects Community Development is working on.
City Manager	<ul style="list-style-type: none"> There will be a special legislative session on May 19, 2021 to address: HB 98, SB 201 & HB 409. Shred Day is Saturday, May 29 at 10 a.m. Asked the Council to consider cancelling the May 25, 2021 City Council meeting. <p>The Council was in consensus to cancel the meeting.</p> <ul style="list-style-type: none"> Reported the County has determined not to charge the City the paramedic tax levy which can then be used toward the City's costs to implement the paramedic program.
Mayor Adams	<ul style="list-style-type: none"> Proposing to raise the commercial out of district waste by \$6 per ton.
Councilmember Patterson	<ul style="list-style-type: none"> The Parks Board will meet on May 19, 2021 at 7 p.m.
Councilmember Petersen	<ul style="list-style-type: none"> Nothing at this time.
Councilmember Mitchell	<ul style="list-style-type: none"> Attended the HAFB RAB meeting. .
Councilmember Stanton	<ul style="list-style-type: none"> Nothing at this time.
Councilmember Dougherty	<ul style="list-style-type: none"> Nothing at this time.
Dave Williams	<p>Asked the Council for approval to get on the list to secure some new vehicle purchases for FY 2021-22; no funds will be spent until after the new budget year begins.</p> <p>The Council approved the request.</p>
Chief Stoker	<p>Reported that Sgt Matt Fawbush has been promoted to Lieutenant. Josh Rodriguez who used to work in Recreation has been hired as a police officer.</p>
Recreation Director Bruce Logan	<p>Reported Clinton's Jr. Jazz Program was selected as the best program out of all the programs in the State. They will be recognized by the Jazz on Thursday, May 13.</p>
ADJOURNMENT	<p>Councilmember Petersen moved to adjourn. Councilmember Patterson seconded the motion. Councilmembers, Dougherty, Mitchell, Patterson and Petersen voted in favor of the motion. The meeting adjourned at 9:21 p.m.</p>
<u>ACTION ITEMS</u>	<ul style="list-style-type: none"> Subdivision Ordinance – recommendation for concrete in the park strips along UDOT roads. (August 2016) – Planning Commission Review Bring back Chapter 4 of the Subdivision Ordinance regarding allowing a letter of credit for escrow and researching what surrounding jurisdictions allow (26-4-8). 6g(January 2017) Planning Commission Review Update Ordinance to eliminate pressurized sewer lines in the Clinton City streets on new residential development (January 2018). Create a facilities maintenance plan before the next budget cycle in FY 19-20 (May 2018). Remove river rock from the low maintenance material allowed for park strips in the ordinance (Aug 2019).

Dennis W. Cluff, Clinton City Recorder

Approval of 2021 Polling Location and Vote Centers

In accordance with 20A-5-403 the following has been designated a polling place for the 2021 Municipal Primary and General Elections for Clinton City and is established as a common polling place for all voting precincts within this city in accordance with 20A-5-303.

Clinton Recreation Center	1651 West 2300 North, Clinton
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In addition, and in accordance with 20A-3a-703, the following are designated as Election Day voting centers, so long as the cities in which these buildings are located, are required to hold an election.

Bountiful Library	725 South Main Street, Bountiful
Centerville Library	45 South 400 West, Centerville
Clearfield City Hall	55 South State Street, Clearfield
Clinton Recreation Center	1651 West 2300 North, Clinton
Farmington Community Center	120 South Main Street, Farmington
Fruit Heights City Hall (for General Election Only)	910 South Mountain Road, Fruit Heights
Kaysville Library	215 North Fairfield Road, Kaysville
Davis Conference Center	1651 North 700 West, Layton
North Salt Lake City Hall	10 East Center Street, North Salt Lake
South Weber Family Activity Center	1181 Lester Drive, South Weber
Sunset City Hall	200 West 1300 North, Sunset
Syracuse Library	1875 South 2000 West, Syracuse
West Bountiful City Hall	550 North 800 West, West Bountiful
West Point City Hall	3200 West 300 North, West Point
Woods Cross City Hall	1555 South 800 West, Woods Cross

5. PRESSURE PIPE CULINARY WATER

- 5.01 General
- 5.02 Ductile Iron Pipe
- 5.03 PVC Pipe
- 5.04 Pipe Installation
- 5.05 Water Service Laterals
- 5.06 Flushing, Disinfecting, and Testing Of Main Lines

5.01 General: This Chapter covers furnishing and installing pressure pipe to the lines and grades shown on the drawings and/or established in the field, and all flushing, testing, and repairing required ensuring adequate and safe operation of the water system. ~~Either PVC C 900 200 DR 14 or ductile iron pipe shall be used in all areas east of 2000 West and PVC C 900 200 DR 14 pipe will be used in all areas west of 2000 West unless soil corrosivity evaluation, as reviewed and approved by the City Public Works Director/Engineer/Public Facilities Inspector dictates otherwise. All fittings shall be brass or brass and stainless steel construction. No galvanized, epoxy coated or similar fittings shall be allowed.~~

5.02 Material

- (1) All water mains shall be PVC C900 pipe. This includes fire hydrant laterals and stubs to future connections.
- (2) Main line valves and fittings shall be ductile iron.
- (3) All service lateral fittings shall be brass or brass and stainless steel construction. No galvanized, epoxy coated or similar fittings shall be allowed.
- (4) Approval from the Public Works department is required for varying from the material requirements.

5.03 Water Line Location in Right-of-Way

- (1) Collector and residential streets: New water lines are be located in the street right-of-way as shown in the Clinton City Standard Drawings. This is typically 5-feet of center of the asphalt.
- (2) Arterial roadways: New water lines are to be placed outside of the roadway section. This means behind the curb and gutter. This can be in the parkstrip, under sidewalk, or in a utility easement. This applies to sections of water line that are required to be removed and replaced for any reason.
- (3) Water lines are not to be placed under curb and gutter. No new water lines are to be placed in a location that will be under a future curb and gutter. No new curb and gutter is to be placed on top of an

existing water line. This is for water lines that run parallel to the curb and gutter. If the curb and gutter will be placed on a water line, the water line is to be relocated to a location that meets the requirements of this specification and the City Standard Drawings.

5.04 Water Main Outside of City Limits

(1) Water lines that are installed outside of the city limits are to be placed in a location where they will be best protected from damage and that meet the requirements of this specification. Public Works will approve all water line locations outside of the city limits on a case-by-case basis.

(2) Water mains that are outside of the city limits that cross an arterial, freeway, railroad, or similar roadway shall be placed in a steel casing. Steel casing will provide approximately 2" of clearance around the water pipe and run from right-of-way to right-of-way line.

5.01—

5.025.05 Ductile Iron Pipe:

(1) Materials:

(a) Ductile iron pipe shall conform to all requirements of ANSI/AWWA C151/A21.51, "American National Standard for Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined molds, for Water or Other Liquids." Minimum pressure Class will be 250 for pipes larger than 12-inch diameter. Pipes of 12-inch diameter and smaller shall be pressure Class 350. If thickness class pipe is used, pipes of diameters from 4-inches through 10-inches shall be minimum Class 51 and pipe from 12-inch diameter and larger shall be minimum Class 52.

(b) All pipe shall be made of good quality Ductile Cast Iron and of such chemical composition and structure as is required to meet the physical and mechanical property requirements of the standard.

(2) Joints:

(a) Mechanical Joints: All mechanical joints shall meet requirements of ANSI/AWWA C111/A21.11. All gasket surfaces shall be smooth and free from imperfections. Gaskets shall conform to tests in accordance with specifications and shall be less than one year old.

(b) Push-on Joints: All push-on joints shall meet the requirements of ANSI/AWWA C111/A21.11. Gaskets shall be free from defects and not over one year old. Lubricants shall be non-toxic and have no deteriorating effects on gasket materials. It shall not impart taste to water in a pipe. It shall conform in every way to ANSI 21.1

(c) Flanged Joints: Flanges shall meet the requirements of ANSI/AWWA C110/A21.10, "American National Standard for Ductile Iron and Gray Iron Fittings, 3-inch through 48-inch for Water and Other Liquids." Flanged joints shall be bolted firmly with machine, stud or cap bolts of proper size. Flange maybe cast integrally with the pipe or may be screwed on threaded pipe. Flanges shall be faced and drilled and of proper dimensions for size and pressure required. ~~Bolts and nuts, unless otherwise specified, shall be made of the best quality refined iron or metal steel and have clean, well fitting threads. Bolts shall be stainless steel or blue bolts.~~ Bolts will be provided with standard hexagonal nuts and standard hexagonal heads. Bolts shall be of the diameter required for each flange and when installed shall be of length so that no more than 3/8-inch nor less than 1/8-inch extends past face of nut. ~~All buried fittings having steel bolts shall be coated with a non-oxide wax and wrapped with polyethylene.~~ Gaskets shall be rubber, either ring or full face, and are 1/8th-inch thick. A gasket for each flanged joint of proper size as shown on the drawings.

(3) Coatings and Linings for Ductile Iron Pipe:

(a) All exterior surfaces of pipe and fittings shall be coated with hot coal tar approximately 1 mil thick. All interior surfaces shall be cement mortar lined with a standard thickness according to ANSI/AWWA C104/A21.4-80.

(b) All interior surfaces or coatings shall consist of products that are certified to comply with ANSI/NSF Standard 61. This requirement applies to any pipes and fittings, protective materials (e.g. paints, coatings, concrete admixtures, concrete release agents, concrete sealers), joining and scaling materials (e.g. adhesives, caulks, gaskets, primers and sealants) and mechanical devices (e.g. electrical wire, switches, sensors, valves) that are located so as to come in contact with the drinking water.

(4) Corrosion Protection and Soil Tests: When the Public Facilities Inspector/Engineer determines that a potential for corrosive conditions exists such as poor drainage or reactive soils, pipe and fittings shall be incased in polyethylene wrap. Polyethylene encasement of ductile iron pipe shall meet the requirements of ANSI A21.5 or AWWA C105.

(5) Flanges: Flanges when required shall conform to ANSI/AWWA C115/A21.15-83.

(6) Fittings: Fittings for Ductile Iron Pipe shall conform to the provisions of ANSI/AWWA C110/A21.10-82 or C153/A21.53-58.

(7) Magnetic Locator Tape:

(a) All pipe shall include a 3-inch magnetic locator tape installed in the pipeline trench approximately 12-inches below the ground surface.

(b) Identification tape shall be furnished with white or black printing on a colored field having the words:

(c) CAUTION: POTABLE WATER - BELOW.

5.035.06 PVC Pipe:

(1) Materials: Pipe for the transmission and distribution of water shall be manufactured in accordance with AWWA C900 (latest edition), "AWWA Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 4-inch through 12-inch, for Water". The PVC pipe shall have a cast-iron-pipe-equivalent outside diameter. PVC pipe 14-inches and larger shall be manufactured in accordance with AWWA C905-88, "AWWA Standard for Polyvinyl Chloride (PVC) Water Transmission Pipe, Nominal Diameters 14-inch through 36-inch" all PVC pipe 4-inch and larger shall be ~~DR 18 pressure class 235. DR-14 with a working pressure of 200 PSI. Pipe smaller than 4-inch shall be schedule 40 PVC.~~

(2) Joints: Joints shall be push on rubber gasket type. Lubrication shall be water soluble, non-toxic, non-objectionable in taste and odor imparted to the water, non-supporting of bacteria growth, and have no deteriorating effect on the PVC pipe or rubber gaskets.

(3) Fittings: All fittings to be used with the PVC pipe shall be the same as fittings for Ductile Iron Pipe and shall conform to the provisions of ANSI/AWWA C110/A21.10-82 or C153/A21.53-58.

(4) Magnetic Locator Tape:

(a) All pipe shall include a 3-inch magnetic locator tape ~~or locating wire~~ installed in the pipeline trench approximately 12-inches below the ground surface.

(b) Identification tape shall be furnished with white or black printing on a colored field having the words:

(c) CAUTION: POTABLE WATER - BELOW.

5.045.07 Pipe Installation:

(1) Cutting: Cutting of pipe for closure pieces or for other reasons shall be done in a neat and workmanlike manner by a method recommended by the manufacturer. After cutting, the pipe shall be beveled and filed to prevent gasket damage in joint assembly.

(2) Dewatering of Trench: Where water is encountered in the trench, it shall be removed during pipe laying operations and the trench so maintained until the ends of the pipe are sealed. See "Control of

Groundwater" in Chapter 3 Trench - Excavation and Backfill.

(3) Laying of Pipe:

(a) The pipe and pipe coating (where applicable) shall be inspected for defects before installation. Any defects shall be repaired or the pipe shall be replaced, whichever the Public Facilities Inspector/Engineer deem necessary.

(b) All pipe shall be laid and maintained to the required lines and grades with fittings and valves at the required locations. The pipes shall be installed with a 48-inch minimum cover from finished road surface for culinary water. The Developer/Contractor shall be responsible to install the pipeline to the alignment set by the Public Facilities Inspector/Engineer or as shown on the Approved Drawings.

(c) All pipes, fittings and valves shall be carefully lowered from the truck when unloading or when installing into the trench. This should be done one piece at a time in order to prevent damage to pipe materials and protective coatings and linings. Under no circumstances shall materials be dropped or dumped from the truck or into the trench.

(d) The Developer/Contractor shall take the necessary precautions such that foreign materials do not enter into the pipe. No debris, tools, or other materials shall be placed in the pipe during laying operations. When laying of pipe is not in progress, a watertight plug shall close the pipe.

(e) Maximum deflections at pipe joints shall not exceed the joint specifications of AWWA C900 of latest revision, or the recommendations of the pipe manufacturer.

(f) Deflections in PVC pipe shall be made by longitudinal bending of the barrel of the pipe rather than deflecting the pipe joints. Longitudinal bending shall be limited to eighty percent (80%) of the manufactures recommended minimum-bending radius.

(4) Pipe Bedding:

(a) All pipes shall be protected from lateral displacement and possible damage resulting from impact or unbalanced loading during backfilling operations by being adequately bedded.

(b) In the event trench materials are not, in the judgment of the Public Facilities Inspector/Engineer, satisfactory for pipe bedding, imported granular bedding will be required. See Chapter 3 of these specifications.

(5) Thrust Blocking: Thrust blocking shall be applied at all tees, valves, plugs, caps and at bends deflecting 11 1/4 degrees or more. The fitting shall be encased in a 12 mil protective plastic wrap before the thrust block is poured. Reaction blocking shall be concrete having a compressive strength of not less than 4000 pounds per square inch at 28 days. Blocking shall be placed between undisturbed soil and the fitting to be anchored. The area of bearing on the pipe and on the ground shall be as shown in the Drawings. The blocking shall be so placed that the pipe and the fittings will be accessible for repair.

(6) Connections to Existing Water Lines: Information on the drawings regarding existing water lines is taken from "record" drawings from the city or utility company files and may or may not be accurate as to size, type of material or location. The Developer/Contractor will be responsible to determine the proper fittings and materials required, obtain the Public Facilities Inspector/Engineer's approval of the planned connection, and perform the construction in a suitable fashion. Where fitting sizes, such as tees and crosses, are shown on the plans, those sizes will be used. However, no attempt has been made to show all needed fittings or materials.

(7) Separation:² The horizontal distance between pressure water mains and sanitary sewer lines shall be at least ten feet. Where a water main and a sewer line must cross, the water main shall be at least 18 inches above the sewer line. Separation distances shall be measured edge-to-edge (i.e. from the nearest edges of the facilities). Water mains and sewer lines shall not be installed in the same trench.

5-055.08 Water Service Laterals: Water service laterals shall be constructed with materials specified and at the locations shown on the Standard Drawings.

(1) Laterals: Pipe for water service laterals shall be three-quarter-inch (3/4") Type K-soft copper tubing or larger and shall comply with ASTM Specification B88.

(2) Extent of Laterals:

(a) New water service laterals shall extend from the water main to ten-feet (10') past the property line. Type K-soft copper tubing water services shall not have any joints between the corporation stop at the main and the meter setter.

(b) Water service laterals relocated during construction of new pipelines shall extend from the water main to the water meter shall not have any joints between the corporation stop and the meter unless approved by Public Facilities

Inspector/Engineer. If the existing service is other than copper or is in poor condition the service shall be replaced with Type K-soft copper tubing from the main to the meter setter. Corporation stops and or saddles shall be replaced unless approved by the Public Facilities Inspector/Engineer.

(b)(c) New water service laterals crossing arterial roadways are to be placed in an HDPE casing. ¾” services are to be placed in a 2” HDPE sleeve. Public Works will approved the size for larger services on a case -by-case basis.

(3) Excavation and Backfill: Trench excavation and backfill shall conform to the applicable paragraphs of Chapter 3. Bedding shall meet the requirements of §4.07(5)(a)(ii) above.

(a) Connection to Main:

(i) Connections of services to main lines shall be direct tap on ductile iron mains and through an OD controlled bronze service saddle on PVC mains, corporation type stop and 24-inch gooseneck formed with the tubing. All connections shall be made using compression type fittings. The service saddle shall be a Mueller service saddle with three-quarter-inch (¾”) IPT outlet or equivalent. The corporation stop shall be a three-quarter-inch (¾”) Mueller H-15008 "CC" thread for direct tap and a Mueller H15028 IP threaded for a service saddle tap.

(ii) On existing services the existing connection to main will be used unless damaged or leaking.

(b) Meter Setter, Box and Cover:

(i) Residential:

(A) Meter sets shall be three-quarter-inch (¾”) Iron Yoke assemblies with an angle meter valve, Mueller 110 or equivalent conductive compression connection for CTS O.D. tubing.

(B) The outlet coupling shall be a top entry dual check device with a conductive compression connection for CTS O.D. tubing. It must also be on the Utah Division of Drinking Water approved Backflow Prevention Assemblies/Devices list.

(C) The meter box shall be eighteen-inches (18”) in diameter by thirty-inches (30”) high corrugated plastic with grooves to fit over the inlet and outlet lines. The meter cover is to be a D&L eighteen-inch (18”) ring cover with a two-inch (2”) hole in a raised cast center rim.

(D) The cover is to be three-eighths-inch (3/8”) above top back of curb centered two-and-one-quarter-feet (2.25’) from the back of curb.

(ii) Non-residential Meter Sets: Water main sizes and meter sets will be approved during the sight plan and building permit approval processes. General specifications for non-residential meter setter, box and cover are outlined in the following table.

CLINTON CITY CORPORATION WATER SERVICE INFORMATION					
Service Size	Meter Box Size	Type of material for Meter Box	Water Meter	Connection Type	Bypass
¾”	18” Dia	Concrete, Corrugated, Polyethylene	By City	Compress	No
1”	24” Dia	Concrete, Corrugated, Polyethylene	By City	Compress	No
1 ½”	48” Dia	Concrete	By City	Flange	Yes
2”	48” Dia	Concrete	By City	Flange	Yes
3”	60” Dia	Concrete	By City	Flange	Yes
4”	4’ x6’ Box	Concrete	By City	Flange	Yes

Meters larger than 4” shall be approved only for specific uses and the design will be approved during the sight plan and building permit approval processes.

Flange meters shall be installed with an approved bypass system.

(4) Special Joints and Fittings:

- (a) Solder and Sweat Joints: Solder joints are not permitted underground.
- (b) Copper Tubing to Screw Pipe Joints: Joints from copper tubing to threaded pipe shall be made by the use of brass adapter fittings.
- (5) Separation: Water service lines shall not be run or laid in the same trench as the building sewer lateral, unless the water service line is placed on a solid shelf excavated at one side of the common trench. At all locations there shall be at least twelve (12) inches of separation **horizontally and vertically** above the sewer lateral.

(6) Flushing, Testing and Disinfecting:

(a) Flushing, testing and disinfecting shall conform to the applicable paragraphs of this division. The end of the trench where the stub-out past the meter is located shall be left open to allow for discharging water out of the service line for proper flushing and to insure that the line has been adequately disinfected. The line shall be flushed thoroughly following installation.

(b) On existing services the Developer/Contractor shall take precautions to prevent contamination of the pipe and connections during installation. The line shall be flushed thoroughly following installation.

(7) Damage and Repair of Water Mains and Appurtenances:

(a) The Developer/Contractor shall be responsible for any damage to water mains and water facilities caused by his operations. The Developer/Contractor may be relieved of the responsibility under the following conditions:

- (i) He has not excavated below or beyond the required excavation lines, and
- (ii) He has given proper and timely notice of his work plans, and
- (iii) He has used reasonable care, and cooperated, minimizing the damage.
- (b) Any damage to water gates, hydrants, valve chambers, meter boxes, and other surface appurtenances that result from the Developer/Contractor's operation shall be its sole responsibility.

5.065.09 Flushing, Disinfecting, and Testing of Main Lines:

- (1) Flushing:
- (2)

(i) All new water systems or extensions to existing systems shall be thoroughly flushed before being placed in service. Flushing shall be accomplished through hydrants, or end of line blow-off assemblies at a minimum flushing velocity of 2.5-cubic feet per second. See chart below.

FLOW RATE AND OPENINGS TO FLUSH PIPELINES (40- psi Residual Pressure)	
Pipe Size (inches)	Flow Required to Produce 2.5 fps velocity (gpm)
2	26
4	100
6	220
8	390
10	610
12	880
14	1,200
16	1,565
18	1,980
20	2,450
24	3,525
30	5,507

(b) **Disinfection:**

(i) After flushing, all culinary water lines shall be disinfected by chlorination. Chlorination shall provide a minimum of 25-ppm residual after 24-hours contact in the pipeline. During the process of chlorinating the pipeline, all valves and other pipeline appurtenances shall be operated several times to provide sufficient contact with the chlorinating agent. Following chlorination, the water line shall be drained and thoroughly flushed according to Section 1 above and, if necessary, rechlorinated until a satisfactory bacteriological test is obtained.

(ii) Disinfection shall conform to the requirements of AWWA C651-86 (or latest edition). After complete disinfection and flushing the Clinton City Public Facilities Inspector/Engineer shall be notified so a Chlorine Residual Test can be taken.

(iii) Disinfection by Granular Calcium Hypochlorite: Placement of granular calcium hypochlorite (TH perchloron, Pittchlor, etc. which is 65% available chlorine by weight) shall be put into new lines at

500-foot intervals. The following table provides information as to the required quantity of granular chlorine to be used to provide a chlorine concentration of 50 ppm.

Pipe Size (inches)	Required Amount of Granular Calcium Hypochlorite every 500 feet
6	0.48 lbs
8	0.83 lbs
10	1.30 lbs
12	1.88 lbs

After all lines are filled with water, through a temporary connection, a Public Facilities Inspector/Engineer will take a chlorine test.

(iv) Disinfection by Slurry Calcium Hypochlorite: Chlorine in the form of a 1% slurry of high-test calcium hypochlorite (HTH, Perchloron, Pittchlor, etc. which are 70% available chlorine by weight) shall be fed into the pipeline in such a manner as to mix with the water flowing in the pipeline. (A 1% slurry – 10,000 ppm – results from mixing one pound of calcium hypochlorite with 8.40 gallons of water.)

The following table provides information as to the required quantity of slurry to be used per 100 feet of pipe to provide a chlorine concentration of 55 ppm.

Pipe Size (in.)	Vol. of 100 ft. Length (gal)	Required Amount of 1 % Chlorine Slurry (gal)
1 ½	9.18	0.07
2	16.32	0.12
½	25.50	0.18
3	36.73	0.26
4	65.28	0.47
6	146.90	1.05
8	261.10	1.87
10	408.10	2.92
12	587.60	4.20

(3) Bacteria Test: After the disinfected line is flushed a Public Facilities Inspector/Engineer will take a bacteria test. After the bacteria samples come back satisfactory (normally 24 – 48 hours) a pressure test must be performed. Bacteria tests will only be accomplished Monday through Wednesday, on

regular working days to allow for results to be accomplished prior to the end of the week.

(4) Pressure Test: All newly laid pipes or any valved section thereof shall be subjected to a hydrostatic pressure. A leakage test shall be conducted concurrently with the pressure test.

(a) Test Pressure Restrictions: Test pressures shall:

(i) Be two (2) times the normal operating pressure as determined by the Public Facilities Inspector/Engineer;

(ii) Not exceed pipe or thrust restraint design pressures;

(iii) Be of at least 2-hour duration;

(iv) Not vary by more than plus or minus five (± 5) psi for the duration of the test;

(v) Not exceed twice the rated pressure of the valves or hydrants when the pressure boundary of the test section includes closed gate valves or hydrants;

(vi) Not exceed the rated pressure of the valves when the test boundary of the test section includes closed, resilient-seated gate valves or butterfly valves.

(b) Pressurization: Each valved section of pipe shall be slowly filled with water and the specified test pressure, based on the elevation of the lowest point of the line or section under test and corrected to the elevation of the test gage, shall be applied by means of a pump connected to the pipe in a manner satisfactory to the Public Facilities Inspector/Engineer.

(c) Air Removal: Before applying the specified test pressure, air shall be expelled completely from the pipe, valves, and hydrants. If permanent air vents are not located at all high points, the Developer/Contractor shall install corporation cocks at such points so that the air can be expelled as the line is filled with water. After all the air has been expelled, the corporation cocks shall be closed and the test pressure applied. At the conclusion of the pressure test, the corporation cocks shall be removed and plugged.

(d) Examination: All exposed pipe, fittings, valves, hydrants, and joints shall be examined carefully during the test. Any damaged or defective pipe, fittings, valves, or hydrants that are discovered following the pressure test shall be repaired or replaced with sound materials and the test shall be repeated until it is satisfactory to the Owner.