

**TAKE NOTICE THAT A SPECIAL CALLED MEETING
OF THE CIVIL SERVICE COMMISSION
OF THE CITY OF PHARR, TEXAS
WILL BE HELD AT CITY HALL, COMMISSIONERS' ROOM,
118 S. CAGE BLVD., 2ND FLOOR, PHARR, TEXAS
COMMENCING AT 1:30 PM ON
FRIDAY, JULY 16, 2021**

If during the course of the meeting, the Civil Service Commission should determine that a closed or executive session of the commission is required, then such closed or executive session or meeting is authorized by Section 551.071 to 551.084 of the Texas Government Code. Notice of closed or executive session will be given after the commencement of the meeting covered by this notice.

Should any final action, decision or vote be required in the opinion of the Civil Service Commission with regard to any item discussed during the closed meeting, then such final action, decision or vote shall be made during the open meeting covered by this notice upon the reconvening of the public meeting pursuant to Section 551.102 Government Code V.T.C.S.

In compliance with Section 551.041 et seq. of the Texas Government Code V.T.C.S. (Open Meetings Act), notice is hereby given that the Civil Service Commission will meet at the time and place indicated to consider and act upon the following:

1. CALL TO ORDER:

A) Roll call and possible action on the excusing of any absent member.

2. PUBLIC TESTIMONY: *(Ordinance No. O-2019-45). A person intending on addressing the governing body may speak at a scheduled meeting of the governing body following registration with the presiding clerk and prior to the scheduled meeting. A registered speaker may speak only on items on the agenda and may not exceed 1.5 minutes when addressing the board regarding an agenda item. A registered speaker may not donate time to another speaker. A sign-in form for public testimony shall be promulgated by the presiding clerk and be made available at the city clerk's office. A person may sign up for public testimony beginning at the time the agenda is posted for the meeting. A person may not sign up later than one hour before the posted meeting is scheduled to begin. No registered speaker may be allowed to speak regarding an item once the public testimony portion of the agenda has ended.*

3. REGULAR AGENDA - OPEN SESSION:

- A) Approval of minutes for May 18, 2021 Special Called Meeting and June 29, 2021 Regular Called Meeting.
- B) Consideration and possible action on appeal by Fire Fighter Janelle Doria of the Engineer Promotional Exam administered on June 22, 2021.
- C) Consideration and take action to approve the eligibility list resulting from the Engineer promotional examination subject to possible recalculation.

4. ADMINISTRATIVE REPORTS.

5. CIVIL SERVICE DIRECTORS REPORTS.

6. CIVIL SERVICE COMMENTS.

7. CLOSED SESSION: *In accordance with Chapter 551 of the Texas Gov't. Code, the Civil Service Board of Commissioners hereby gives notice that it may meet in closed session to discuss the items listed on the public portion of the meeting agenda, in accordance with the following below:*

Pursuant to Section 551.071, the Commission may convene in a closed, non-public meeting with its attorney and discuss any matters related to **legal advice on pending or contemplated litigation, settlement offer, and/or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with this chapter.** The City and its attorney may also discuss such issues with the appropriate staff so as to obtain necessary and relevant information so that such discussion is informative and developed.

Pursuant to Section 551.074, the Commission may convene in a closed, non-public meeting to discuss any matters related to **appointment, employment, evaluation, reassignment, duties and discipline or dismissal of a public officer or employee and to hear any complaints or charges against an officer or employee.** The City and its attorney may also discuss such issues with the appropriate staff including members so as to obtain necessary and relevant information so that such discussion is informative and developed.

Pursuant to Section 551.076, the Commission may convene in a closed, non-public meeting to discuss any matters on the **deployment, or specific occasions for implementation, of security personnel or devices.** The City and its attorney may also discuss such issues with the appropriate staff so as to obtain necessary and relevant information so that such discussion is informative and developed.

Pursuant to Section 551.084, the Commission may convene in a closed, non-public meeting to discuss any matters involving an **investigation and may exclude a witness from hearing during the examination of another witness in the investigation.** The City and its attorney may also discuss such issues with the appropriate staff so as to obtain necessary and relevant information so that such discussion is informative and developed.

8. RECONVENE into open session and consider action, if necessary, on any item(s) discussed in closed session.

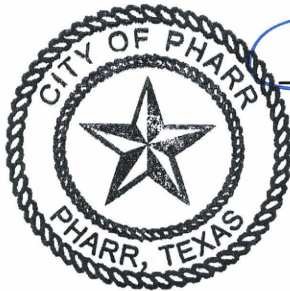
9. ADJOURNMENT.

NOTICE OF ASSISTANCE AT THE PUBLIC MEETING

City Hall is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours prior to this meeting. Please contact the City Clerk's Office at 956/402-4100 ext. 1007 or FAX 956/702-5313 or E-mail imelda.barrera@pharr-tx.gov for further information. Braille is not available.

I, the undersigned authority, do hereby certify that the above notice of said Regular Meeting of the Civil Service Commission of the City of Pharr was posted on the bulletin board at City Hall and on the City's web page at www.pharr-tx.gov. This Notice was posted on the 13th day of July 2021 at 1:30pm and will remain posted continuously for at least 72 hours preceding the scheduled time of said Meeting, in compliance with Chapter 551 of the Government Code, Vernon's Texas Codes, Annotated (Open Meetings Act).

WITNESS MY HAND AND SEAL, this 13th day of July 2021




IMELDA BARRERA, TRMC
ASSISTANT CITY CLERK



Pharr

Human Resources

CIVIL SERVICE COMMISSION

MINUTES



A Special Called meeting of the Civil Service Commission was held Tuesday, May 18, 2021. Vice-Chairperson Mario Lizcano called the meeting to order at 3:00 pm, at the Commissioners' Room located at 118 South Cage Blvd., 2nd Floor, Pharr, Texas.

MEMBERS PRESENT: Vice-Chairperson, Mario Lizcano
Board Member, Vittorio Puente

STAFF PRESENT: Anali Alanis, Civil Service / Asst. City Manager
Bea Fuentes, Civil Service / HR Specialist
Patricia Rigney, City Attorney

ITEM 1 CALL MEETING TO ORDER

Vice-Chairperson Lizcano called the meeting to order.

ITEM 1(a) ROLL CALL AND POSSIBLE ACTION ON THE EXCUSING OF ANY ABSENT MEMBER OF THE CIVIL SERVICE COMMISSION

Roll call established a quorum. Board Member Puente moved to excuse Chairperson Rodriguez. Vice-Chairperson Lizcano seconded the motion and when put to a vote, it carried unanimously.

ITEM 2 PUBLIC TESTIMONY (Ordinance no. O-2019-45)

Vice-Chairperson Lizcano introduced the item.

ITEM 3 (a) CONSIDERATION AND POSSIBLE ACTION, ON THE MOTION TO DISMISS ELOY SALAZAR'S NOTICE OF APPEAL FOR LACK OF JURISDICTION.

Vice-Chairperson Lizcano introduced the item. Board Member Puente moved to dismiss the action. Vice-Chairperson Lizcano seconded the motion and when put to a vote, it carried unanimously.

ITEM 4 CIVIL SERVICE DIRECTORS REPORT - N/A

ITEM 5 CIVIL SERVICE COMMISSION COMMENTS – N/A

ITEM 6 CLOSED SESSION: In accordance with Chapter 551 of the Texas Gov't. Code, the Civil Service Board of Commissioners hereby gives notice that it may meet in executive session to discuss the items listed on the public portion of the meeting agenda, including items 3 in accordance with the following below:

Pursuant to Section 551.071, the Commission may convene in a closed, non-public meeting with its attorney and discuss any matters related to legal advice on pending or contemplated litigation, settlement offer, and/or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with this chapter. The City and its attorney may also discuss such issues with the appropriate staff so as to obtain necessary and relevant information so that such discussion is informative and developed.

Pursuant to Section 551.074, the Commission may convene in a closed, non-public meeting to discuss any matters related to appointment, employment, evaluation, reassignment, duties and discipline or dismissal of a public officer or employee and to hear any complaints or charges against an officer or employee. The City and its attorney may also discuss such issues with the appropriate staff including members so as to obtain necessary and relevant information so that such discussion is informative and developed.

Pursuant to Section 551.076, the Commission may convene in a closed, non-public meeting to discuss any matters on the deployment, or specific occasions for implementation, of security personnel or devices. The City and its attorney may also discuss such issues with the appropriate staff so as to obtain necessary and relevant information so that such discussion is informative and developed.

Pursuant to Section 551.084, the Commission may convene in a closed, non-public meeting to discuss any matters involving an investigation and may exclude a witness from hearing during the examination of another witness in the investigation. The City and its attorney may also discuss such issues with the appropriate staff so as to obtain necessary and relevant information so that such discussion is informative and developed.

The time being 3:02 pm, Vice-Chairperson Lizcano stated the commission would be entering a closed session.

ITEM 7 RECONVENE INTO OPEN SESSION, AND CONSIDER ACTION, IF NECESSARY ON ANY ITEM(S) DISCUSSED IN EXECUTIVE SESSION

The time being 3:24 pm, Chairperson stated the commission would be resuming the open meeting.

ITEM 8 ADJOURNMENT

There being no further business to come before, Board Member Puente moved to adjourn. It was seconded by Vice-Chairperson Lizcano and when put to a vote the motion carried unanimously. Meeting adjourned at 3:25 pm.

Chairperson Dolores Rodriguez

Vice-Chairperson Mario Lizcano

Board Member Vittorio Puente



Pharr

Human Resources



CIVIL SERVICE COMMISSION MINUTES

A meeting of the Civil Service Commission was held Tuesday, June 29, 2021. Chairperson Dolores Rodriguez called the meeting to order at 4:00 pm, at the Commissioners' Room located at 118 South Cage Blvd., 2nd Floor, Pharr, Texas.

MEMBERS PRESENT: Chairperson, Dolores Rodriguez
Vice-Chairperson, Mario Lizcano

STAFF PRESENT: Anali Alanis, Civil Service / Asst. City Manager
Bea Fuentes, Civil Service / HR Specialist
Andy Harvey, Chief of Police
Juan Gonzalez, Deputy Chief
Lenny Perez, Fire Chief

ITEM 1 CALL MEETING TO ORDER
Chairperson Rodriguez called the meeting to order.

ITEM 1(a) ROLL CALL AND POSSIBLE ACTION ON THE EXCUSING OF ANY ABSENT MEMBER OF THE CIVIL SERVICE COMMISSION
Roll call established a quorum. Vice-Chairperson Lizcano moved to excuse Board Member Puente, Chairperson Rodriguez seconded the motion and when put to a vote, it carried unanimously.

ITEM 2 PUBLIC TESTIMONY (Ordinance no. O-2019-45)
Chairperson Rodriguez introduced the item.

ITEM 3(a) CONSIDERATION AND ACTION, IF ANY, ON APPROVAL OF MINUTES FOR MONDAY, MAY 3, 2021.
Vice-Chairperson Lizcano moved to approve minutes as submitted. Chairperson Rodriguez seconded the motion and when put to a vote, it carried unanimously.

ITEM 3(b) CONSIDERATION AND ACTION, IF ANY, ON APPROVING AND ACCEPTING THE RAW AND FINAL SCORES FROM THE PROMOTIONAL EXAM ADMINISTERED FOR ENGINEER/FIRE INSPECTOR FOR THE FIRE DEPARTMENT ON TUESDAY, JUNE 22, 2021.
Vice-Chairperson Lizcano moved to approve scores as submitted. Chairperson Rodriguez seconded the motion and when put to a vote, it carried unanimously.

**CIVIL SERVICE COMMISSION
TUESDAY, JUNE 29, 2021**

ITEM 3(c) CONSIDERATION AND ACTION, IF ANY, ON APPROVING AND ACCEPTING THE ELIGIBILITY LIST FROM THE PROMOTIONAL EXAM ADMINISTERED FOR ENGINEER/FIRE INSPECTOR FOR THE FIRE DEPARTMENT ON TUESDAY, JUNE 22, 2021.

Vice-Chairperson Lizcano moved to approve list as submitted. Chairperson Rodriguez seconded the motion and when put to a vote, it carried unanimously.

ITEM 3(d) CONSIDERATION AND ACTION, IF ANY, ON APPROVING AND ACCEPTING THE RAW AND FINAL SCORES FROM THE PROMOTIONAL EXAM ADMINISTERED FOR SERGEANT FOR THE POLICE DEPARTMENT ON WEDNESDAY, JUNE 23, 2021.

Vice-Chairperson Lizcano moved to approve scores as submitted. Chairperson Rodriguez seconded the motion and when put to a vote, it carried unanimously.

ITEM 3(e) CONSIDERATION AND ACTION, IF ANY, ON APPROVING AND ACCEPTING THE ELIGIBILITY LIST FROM THE PROMOTIONAL EXAM ADMINISTERED FOR SERGEANT FOR THE POLICE DEPARTMENT ON WEDNESDAY, JUNE 23, 2021.

Vice-Chairperson Lizcano moved to approve list as submitted. Chairperson Rodriguez seconded the motion and when put to a vote, it carried unanimously.

ITEM 4 ADMINISTRATIVE REPORTS (PD and FD)

Police Chief – Andy Harvey reported that 10 officers graduated the academy a few months ago and 7 have finished training and have been released to patrol the streets, 2 more to be released in the weeks to follow and the last has been deployed in the military.

Fire Chief – Lenny Perez reported the new Rescue Truck has arrived at the City of Pharr and is in the final inspection process. The fire department is working on an ISO inspection and will have inspectors coming in in the coming weeks. The fire department is hoping for a favorable ruling that will benefit the citizens of Pharr. The Texas Commission on Fire Protection will also be in Pharr for the bi-annual schedule inspection. One of the Arson Investigators will be finishing the Police Academy, graduating and the department will have another Arson Investigator in the pool. Lastly, the Fire Chief announced his intention to retire on July 23, 2021 and thanked the City and Commission.

ITEM 5 CIVIL SERVICE DIRECTORS REPORT

Asst. City Manager / Civil Service Director Anali Alanis reminded the Commission and Community of the Independence Day festival July 4th at Jones Box Park. PD will be debuting the Horses, there will be food vendors, music, activities, and City Hall on call.

ITEM 6 CIVIL SERVICE COMMISSION COMMENTS

Vice-Chairperson Lizcano and Chairperson Rodriguez thanked Fire Chief Perez for all his service to the City of Pharr.

ITEM 7 CLOSED SESSION: In accordance with Chapter 551 of the Texas Gov't. Code, the Civil Service Board of Commissioners hereby gives notice that it may meet in executive session to discuss the items listed on the public portion of the meeting agenda, including items 3 in accordance with the following below:

Pursuant to Section 551.071, the Commission may convene in a closed, non-public meeting with its attorney and discuss any matters related to legal advice on pending or contemplated litigation, settlement offer, and/or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with this chapter. The City and its attorney may also discuss such issues with the appropriate staff so as to obtain necessary and relevant information so that such discussion is informative and developed.

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The time being _____am/pm, Chairperson Rodriguez stated the commission would be entering a closed session.

ITEM 8 RECONVENE INTO OPEN SESSION, AND CONSIDER ACTION, IF NECESSARY ON ANY ITEM(S) DISCUSSED IN EXECUTIVE SESSION

The time being _____am/pm, Chairperson stated the commission would be resuming the open meeting.

ITEM 9 ADJOURNMENT

There being no further business to come before, Vice-Chairperson Lizcano moved to adjourn. It was seconded by Board Member Puente and when put to a vote the motion carried unanimously. Meeting adjourned at 4:23 pm.

Chairperson Dolores Rodriguez

Vice-Chairperson Mario Lizcano

Board Member Vittorio Puente



AGENDA MEMORANDUM



BOARD: Civil Service Commission

AGENDA ITEM #: 3.B.

DATE SUBMITTED: July 13, 2021

MEETING DATE: July 16, 2021

FROM: Beatriz Fuentes, HR Coordinator

DEPARTMENT: HR

DIRECTOR: Anali Alanis

Agenda Item: Consideration and possible action on appeal by Fire Fighter Janelle Doria of the Engineer Promotional Exam administered on June 22, 2021.

Classification: Regular

(* If closed session, City Attorney must review and approve.)

Issue: Consideration and possible action on appeal by Fire Fighter Janelle Doria

Fiscal Consideration:

Staff Recommendation:

Alternatives:

Exclude Material from Public Packet? No

Reason:

ROUTING:

Beatriz Fuentes

Anali Alanis

Created/Initiated - 7/13/2021

New -

PUMPING AND AERIAL APPARATUS DRIVER/OPERATOR HANDBOOK - PG 197 (B) ^{CORRECT ANSWER}

32 (Stream) The pressure does play a major part in all factors stated in question. If pressure is too low everything is effected as ~~well~~ as the reach. Without pressure or too much and too little also determines size of water droplets.

PG. 544

(A) correct

39 (Rails) The trusses are or could be confused with the base of the ladder in this question. The beams are also called for the sides of a ladder.

PG. 504

(B) correct

38 (Foam) In regards to the two factors presented in the question does not specify which nozzle would be best. The foam can still be used for a fog nozzle which are currently and commonly utilized on our units.

PG. 746

(B) correct

56 With exposures, ~~fire~~ fog streams are commonly used to protect them. When using handlines or water from a truck company. Fire streams are used in between the fire and exposure to help keep the exposure cool until fire can be extinguished.

POLICY ON APPEALS

Frequently, candidates who have taken a promotional examination will exercise their right to appeal the accuracy of test questions. This statement is intended to clarify Wollack Testing Service's policy on appeals or challenges to test questions.

On the instruction page of each test booklet, candidates are advised:

Before you take the test, there are two concepts which you must understand about the validity and accuracy of the examination. First, the best answer to any question is always the correct answer. It is possible, for some questions, that two or more answers may be generally relevant. However, the best answer is always the correct answer. Second, the accuracy of an answer is always based on those sources identified in the test. It is not a valid basis for challenging the accuracy of an answer to prove that other sources (such as departmental operating procedures, prior training, or other textbooks) support a different answer to the test question.

Our test items are prepared by subject matter experts in the police and fire service. Despite their expertise, bad questions do slip through. We do our best to minimize such occurrences, however, we are always subject to the possibility of utilizing some test items which are questionable.

Our policy is to encourage our test users to let us know about problem items for which candidates' appeals have been successfully upheld by your civil service commission or personnel department. Whenever we get such feedback, we respond by deleting those problem items from our item pool. In this manner, we assure that these items are not retained for future use. It is highly important that you let us know about such items that have been successfully appealed by candidates. When a test item appeal has been upheld by your Civil Service Commission, the recommended procedure is to write a letter to us identifying the test item and the basis for upholding the appeal. If we concur that the item is a bad one, it will be deleted from the item pool.

A few test users have contacted us directly and requested written or telephone responses to their appeals. **As we do not have the resources to handle such requests, we ask that all item appeals be handled internally by your agency.** You will note that all test questions are referenced by page or section number to facilitate your checking for the correct answer.

User cities are strongly encouraged to adopt the following guidelines for processing promotional test item appeals.

Recommended Guidelines for Appeals

Appeals should be **rejected** when one or more of the following pertain:

1. *Proof that other sources may support a different answer* (Note: This is an **invalid** basis for an appeal).
2. *When the correct answer remains the best available answer* (Note: This is true even if another answer may be correct **under certain limited circumstances**, providing that the answer which has been keyed as being correct is **generally** the best answer).
3. *The reference page number, which facilitates checking for the correct answer after the test is given, is an incorrect number.* (Note: This number is not part of the test and is given only to assist in locating the basis for the test question during an appeal.)

Appeals should be **upheld** if:

1. The keyed answer is clearly incorrect.
2. Other answers are equally correct.
3. A typographical or other error in the question significantly alters the meaning of the question and invalidates the correct answer.

The above-stated guidelines for handling appeals are important for preserving the integrity of the testing program, and, therefore, **should be integrated into each city's civil service rules.**

Wollack Testing Service is doing its best to produce high quality tests at a low cost. Your help in achieving this objective is greatly appreciated.

Wollack Testing Service, LLC

Mailing Address:
6516 Monona Drive, #255
Madison, WI 53716

Email: wollacktesting@hotmail.com
Phone: (608) 222-4360
Website: www.wollacktesting.com

June 28, 2021

Bea Fuentes
HR Coordinator
City of Pharr
118 South Cage Blvd. 4th Floor
Pharr, TX 78577

Dear Ms. Fuentes:

The follow are comments regarding the item appeals that you sent from your recent exam. We found that each of the items was keyed correctly, but the decision of how to handle the appeals rests with your city. Please also refer to our appeals statement for help in making your decisions. Please let me know if there is anything else we can do for you.

Best-

Jodi

The examinee appealed four questions all from **Pumping and Aerial Apparatus Driver/Operator Handbook**, 3rd ed., IFSTA.

p. 197

32. The reach of a fog stream is directly related to its width, the wind, the volume of water flowing, and the _____.
- A. water pressure
 - x B. size of the water droplets
 - C. pattern of the stream

Comments: The examinee argues that pressure also affects the reach, because it plays a part in each of the other factors. We may look into rewording this item to improve its clarity. However, option B is stated very clearly in the textbook. Our test instructions point out that sometimes more than one answer may be generally relevant, but the best answer is the correct choice.

p. 504

38. Firefighters should use _____ nozzles with protein and fluoroprotein concentrates.
- A. fog
 - X B. air-aspirating foam
 - C. smooth bore

Comments: The examinee argues that the book does not say which nozzle is best. However, in the section, **Air-Aspirating Foam Nozzle** on page 504, it states that air-aspirating foam nozzles are the only nozzles that should be used with protein and fluoroprotein concentrates.

p. 544

39. The base rails, also commonly referred to as _____, are the lower chords of the aerial ladder.
- x A. beams
 - B. rungs
 - C. trussing

Comments: The examinee argues that trusses could be confused with the base of the ladder. Page 543 explains that trusses are the triangular shapes of bars that form the framework for the aerial device. The item is about base **rails**. The statement in item 39 is directly from the book. It should have also helped that there are photos on pages 544 and 545 that clearly point out the trusses and the base rails (beams).

p. 746

50. Directing fire streams into the air between the fire and the exposure _____ appreciably reduce the chance of the exposure catching fire.
- A. will
 - x B. will not

Comments: The examinee argues that fire streams are used in between the fire and exposure to help keep the exposure cool until fire can be extinguished. This is directly opposed to the information in the textbook. The item is taken directly from the textbook (first paragraph on page 746). The book also explains that this is because radiated heat is transmitted through water.

In addition, the test instructions at the start of every exam state that it is not a valid basis for challenging the accuracy of an answer to prove that other sources (such as departmental operating procedures, prior training, or other textbooks) support a different answer to the test question.

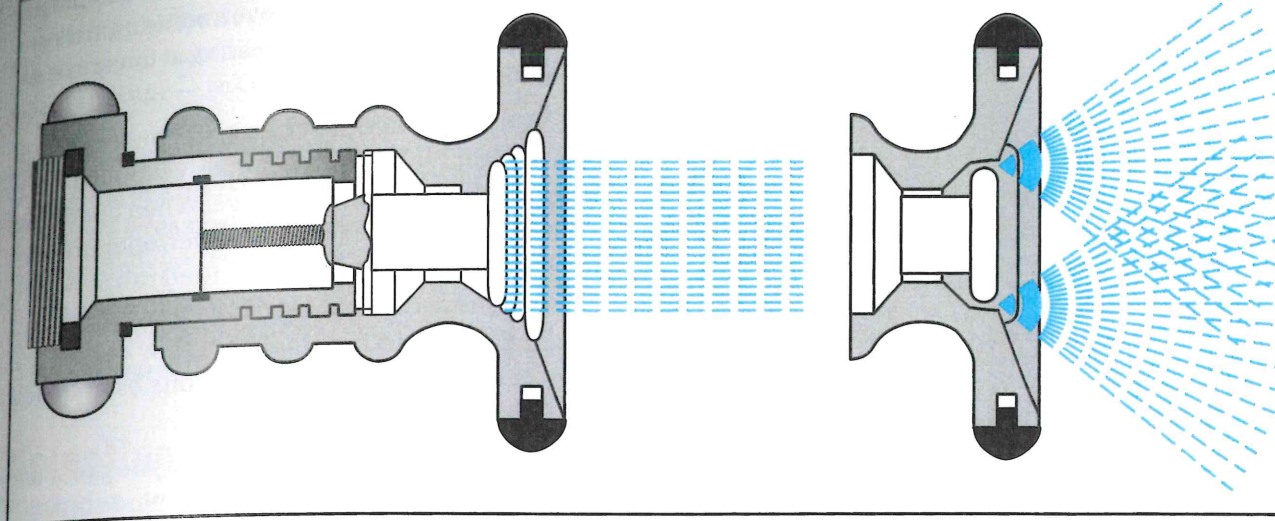


Figure 6.4 The relative positions of the deflection stem and the exterior barrel of a periphery-deflected nozzle determine the stream pattern.

Q 32

The reach of the fog stream is directly related to its width, the size of the water particles (droplets), the wind, and the volume of water flowing. There are a variety of fog stream nozzles available with differing capabilities. The following sections will explain basic design and operation of some of these nozzles.

Constant Flow Fog Nozzles

A constant flow nozzle is designed to flow a specific volume of water on all stream patterns at a specific nozzle discharge pressure. Most constant flow nozzles feature a periphery-deflected stream and are equipped with an adjustable pattern range (**Figure 6.5**). The principle of operation is based on rotating the exterior of the barrel to change pattern settings. During this rotation, the space between the deflecting stem and the interior throat of the nozzle remains the same, allowing for the discharge of a fixed gallonage of water on all pattern settings. Most constant flow nozzles are designed to operate at a nozzle pressure of 100 psi (700 kPa). However, some nozzles may operate at 50 (350 kPa) or 75 psi (525 kPa).

Selectable Gallonage Nozzles

Some nozzles may be designed for adjustable gallonage settings. These nozzles allow the firefighter operating the handline to select the flow rate to suit fire and operating conditions (**Figure 6.6, p. 198**). The nozzle will supply this flow at the rated nozzle discharge pressure. If the driver/operator does not supply the proper pressure, the handline will not achieve the gallonage selected at the nozzle. Many of these nozzles

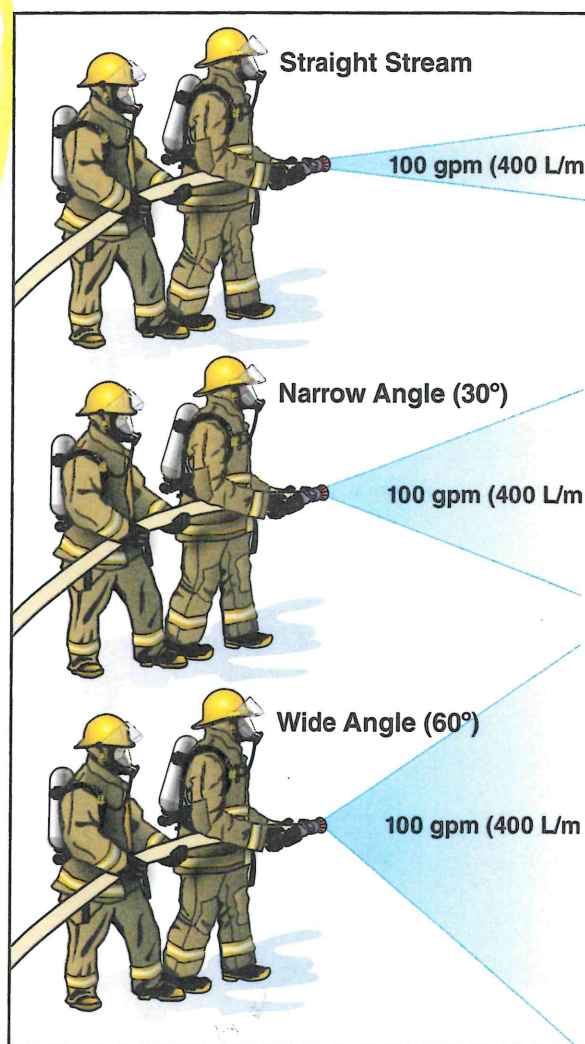


Figure 6.5 Example of constant flow fog nozzles in operation.



Figure 14.26 A smooth bore nozzle provides a stream with excellent reach. Courtesy of Shad Cooper/Wyoming State Fire Marshal's Office.



Figure 14.27 Fog nozzles are effective in agitating water droplets and achieving a foaming action.

Smooth Bore Nozzles

The use of smooth bore nozzles is limited to the application of Class A foam from a CAFS (**Figure 14.26**). Smooth bore nozzles provide an effective stream with excellent reach capabilities using this system. This is an exception to the standard rule that dictates the discharge orifice be no greater than half the diameter of the hose.

Fog Nozzles

Firefighters may operate fixed flow, selective flow, or automatic fog nozzles when applying a low expansion, short duration foam blanket. These nozzles break the foam solution into droplets while using the agitation of water droplets moving through air to achieving the foaming action (**Figure 14.27**). Expansion ratios for most fog nozzles are in the 2:1 up to 4:1 range. Their most efficient usage is during application of regular AFFF and Class A foam. However, they may also be used with alcohol resistant AFFF on hydrocarbon fires. Fog nozzles are not an acceptable choice for delivery of fluoroprotein foams as insufficient aspiration is created. Likewise, they should not be employed for incidents involving polar solvents. Many nozzle manufacturers have designed foam aeration attachments that may be added to the end of a fog nozzle to increase aspiration of the foam solution.

Air-Aspirating Foam Nozzle

Q. 38

Air-aspirating foam nozzles induct air into the foam solution by a Venturi action. These nozzles can be used with Class A foam in wildland fire fighting applications, and are the only nozzles that should be used with protein

and fluoroprotein concentrates. They provide maximum expansion of the agent, but since most of the stream's energy is used to introduce air, it is not able to reach as far as a standard fog nozzle (**Figure 14.28**).

Master Stream Foam Nozzles

Large-scale flammable and combustible liquid fires often require the delivery of an amount of foam that is beyond the capability of the handlines. Like handline nozzles, fixed flow or automatic fog master stream appliances may be used to deliver foam. They perform in a similar manner to the handline nozzles discussed in the preceding section. Industrial foam pumpers and ARFF apparatus are often equipped with aerating foam master stream nozzles.

Figure 14.28 Air-aspirating nozzles induct air into the foam solution allowing for maximum expansion of the foam.



Three Categories of Aerial Devices

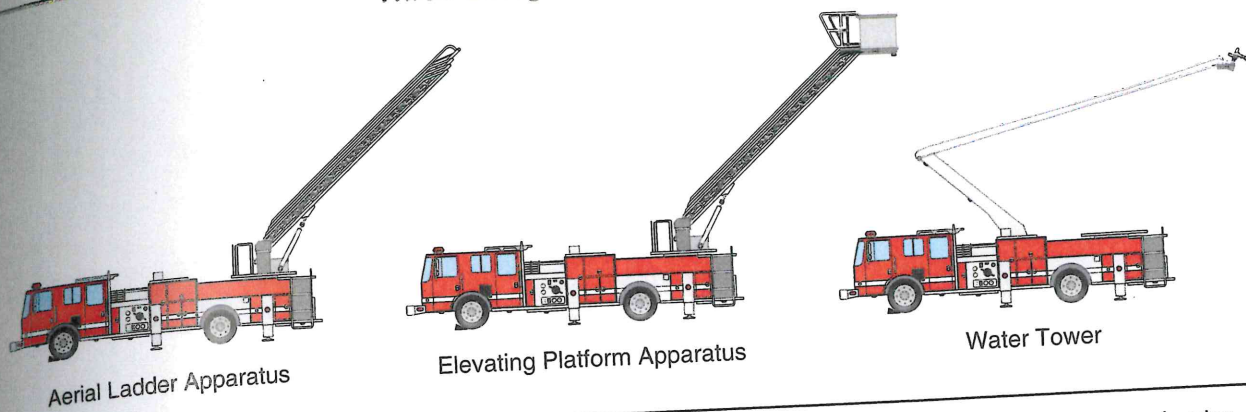


Figure 16.2 NFPA® 1901 categorizes aerial devices into three categories: aerial ladders, elevating platforms, and water towers.

Primary Features of Aerial Apparatus and Aerial Devices

A number of features and systems are common to most types of **aerial apparatus** and **aerial devices**. These features and systems will be referred to throughout the rest of this manual. The intent of the following sections is to familiarize readers with important information that they will need to know as they work through this book.

An aerial apparatus is unique because it is equipped with one of several varieties of aerial devices. There are many manufacturers of aerial fire apparatus and many ways in which apparatus are designed and laid out. Both aerial apparatus and devices share certain systems in common which will be referred to throughout the rest of the manual. The sections that follow will familiarize readers with these various devices and their systems.

NOTE: Driver/operators must be familiar with the design features of the specific apparatus they are assigned to operate.

Aerial Ladders

Aerial ladder devices may be mounted on a straight chassis in either a rear- or mid-mount configuration, or on a **tillered trailer** similar to a standard tractor-trailer (Figure 16.3, p. 544). A fire department aerial ladder must be constructed to perform safely and properly under a wide variety of fire and rescue emergencies. The supporting beams of the ladder are of **aerial ladder truss** construction, which provides the required strength for this work application. Adequate strength is needed because aerial ladders are subject to substantial amounts of stress, and they are extremely heavy.

Trusses consist of an assembly of bars or rods to form a rigid framework. A solid beam of equal size would provide adequate strength, but its weight would be prohibitive for aerial ladder operations. Engineering design has proven that trusses lend more strength if their assembled members form triangles (Figure 16.4, p. 544). A properly designed truss permits tension and compression stresses to be distributed over the length of the ladder for maximum strength with minimum weight. NFPA® 1901 establishes the number of sections and

Aerial Apparatus — Fire fighting vehicle equipped with a hydraulically operated ladder, elevating platform, or other similar device for the purpose of placing personnel and/or water streams in elevated positions.

Aerial Device — General term used to describe the hydraulically operated ladder or elevating platform attached to a specially designed fire apparatus.

Aerial Ladder — Power-operated ladder, usually employing hydraulics, that is mounted on a special truck chassis.

Tillered Trailer — Trailer equipped with steerable rear wheels.

Aerial Ladder Truss — Assembly of bracing bars or rods in triangular shapes that form a rigid framework for the aerial device.

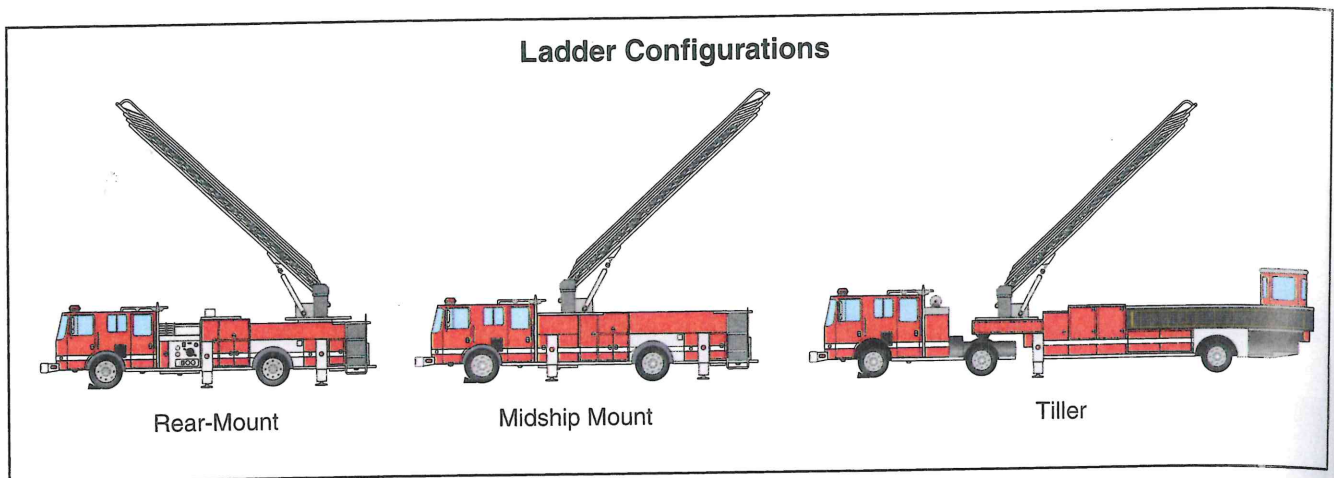
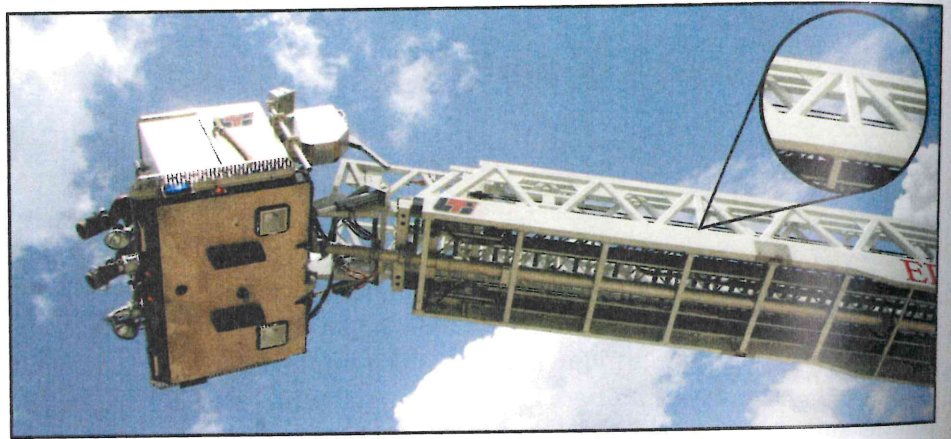


Figure 16.3 Aerial ladders are mounted in one of three configurations: rear-mount, midship mount, or on a tillered trailer.

Q.39

Figure 16.4 Truss members that form triangles have great strength.



Fly Section — Extendable section of ground extension or aerial ladder. Also known as Fly.

minimum reach required of an aerial apparatus. The bottom section of the aerial ladder is referred to as the base (or bed) section. The second and subsequent sections that extend beyond the base section are called the **fly sections** (Figure 16.5). The manner in which each section slides into the others along with certain safety factors are characteristics of each manufacturer's design.

The two most common materials for construction of aerial ladders are heat-treated aluminum alloy and steel. The fabricated structural members may be fastened by rivets, or the entire truss segment may be welded (steel) or heliarced (aluminum alloy) (Figures 16.6 a and b).

The three main portions of an aerial ladder to which firefighters and driver/operators commonly refer are the base rails, the top rails, and the rungs. The base rails, also commonly called the *beams*, are the lower chords of the aerial ladder to which the rungs, trusses, and other portions of the ladder are attached (Figure 16.7). Top rails, also called the handrails, are the top chords to which the opposite ends of the trussing are attached (Figure 16.8, p. 546).

The rungs are the portions that are attached between the two base rails and are used as steps for personnel on the aerial ladder. Aerial ladders designed and built with "K-bracing" as a standard feature provide greater strength than those with older designs (Figure 16.9, p. 546).

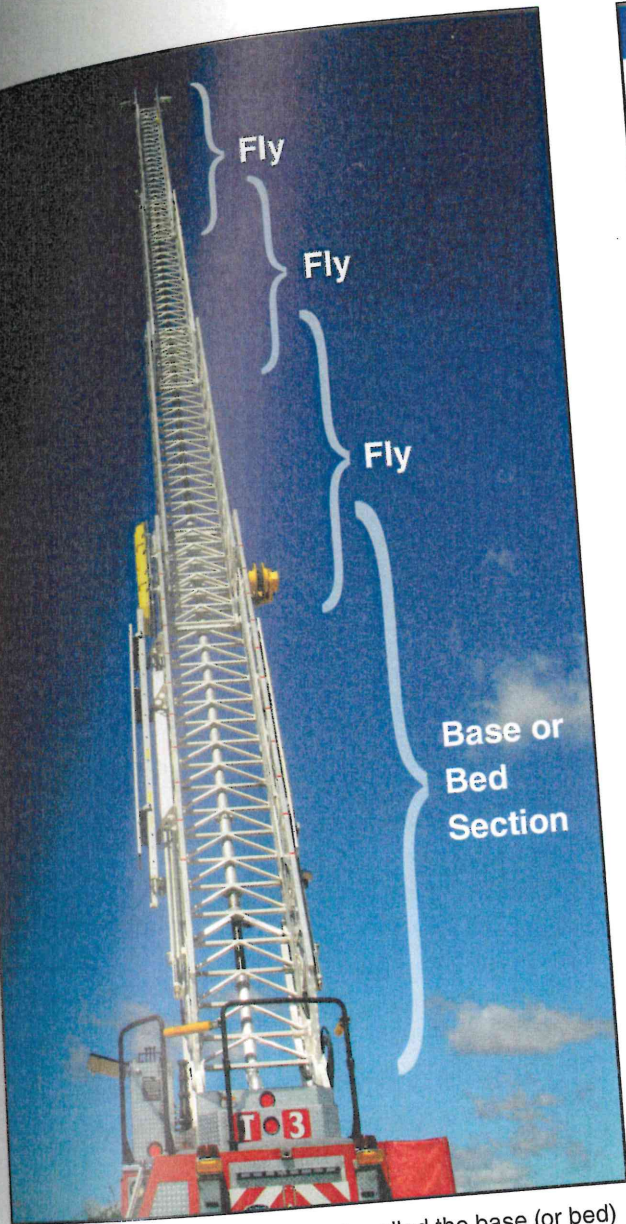


Figure 16.5 The bottom section is called the base (or bed) section, while sections that extend beyond the base are called fly sections.



Figure 16.6a An example of a welded (steel) truss.



Figure 16.6b An example of a heliarc (aluminum alloy) truss.



Figure 16.7 The rungs and trusses attach to the base rails or beams of the ladder.

NFPA® 1901 establishes requirements for the dimensions of sections and structural members of the aerial ladder. Items such as rungs, handrails, base rails, and folding steps all have minimum and maximum dimensions listed in the standard. In addition, the standard requires that certain areas of the aerial ladder provide added traction for firefighters. The standard also establishes minimum performance requirements for placing an aerial ladder in service from its transport position. Time criteria for an apparatus is based on its aerial type. Newer aerial ladders are required by the standard

Q. 50

Because radiated heat is transmitted through water, simply directing fire streams into the air between the fire and the exposure will not appreciably reduce the chance of the exposure catching fire. Water applied directly on the exposure more effectively absorbs the heat energy developed on the surface of the exposure and reduces its ability to catch fire (**Figure 20.40**).

Protection from convective fire spread can be accomplished by applying large fog streams into the thermal column (**Figure 20.41**). Fog streams may reduce the chances of burning embers traveling through the air and igniting other structures. When resources are limited, it may be necessary to use one master stream to both fight the fire and protect the exposures. This can be done by positioning the apparatus so that the master stream can be moved between

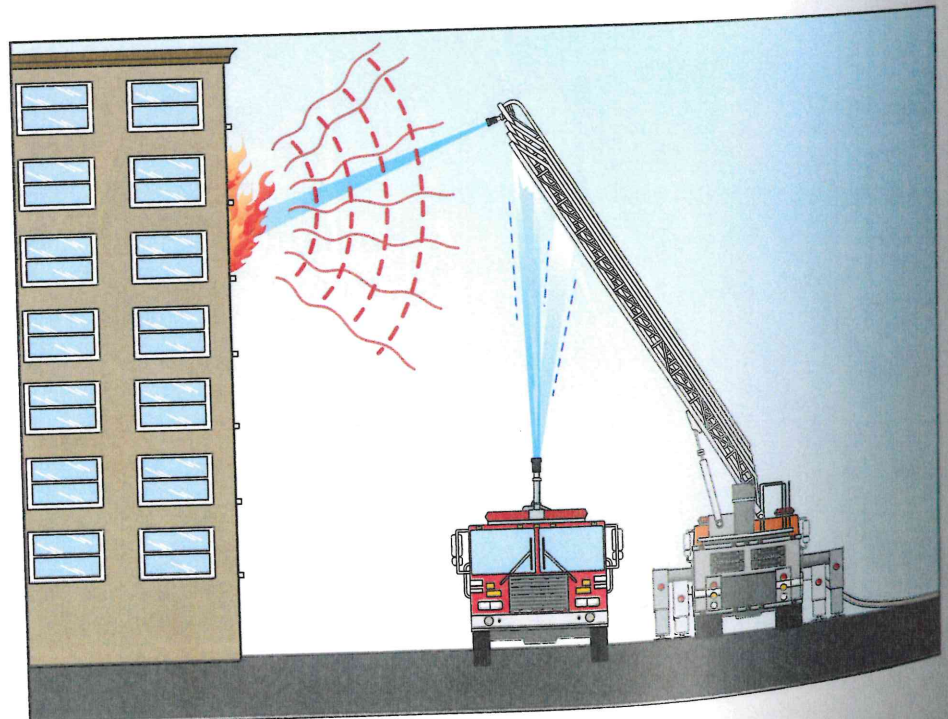
the fire and the exposure (**Figure 20.42**). In these situations, care should be taken not to neglect the exposure by devoting too much attention to the fire itself. Some elevating platform apparatus are equipped with two nozzles on the platform. With two nozzles, one stream can be applied to the fire building while the other protects exposures (**Figure 20.43**).

The practice of using two nozzles from an aerial device is dependent upon availability of water, required flow, and the number of firefighters available to monitor the application. Because of these factors, the full use of the apparatus may be limited.



Figure 20.39 Combustible interior items may begin to burn if exposed to radiant heat.

Figure 20.40 Water can be sprayed onto an aerial device to protect it from radiant heat.



1991, 72nd Leg., ch. 713, Sec. 1, eff. Sept. 1, 1991.

Amended by:

Acts 2005, 79th Leg., Ch. 869 (S.B. 1050), Sec. 3, eff. September 1, 2005.

Sec. 143.034. REVIEW AND APPEAL OF PROMOTIONAL EXAMINATION.

(a) On request, each eligible promotional candidate from the fire or police department is entitled to examine the person's promotional examination and answers, the examination grading, and the source material for the examination. If dissatisfied, the candidate may appeal, within five business days, to the commission for review in accordance with this chapter. In computing this period, a Saturday, Sunday, or legal holiday is not considered a business day.

(b) The eligible promotional candidate may not remove the examination or copy a question used in the examination.

Acts 1987, 70th Leg., ch. 149, Sec. 1, eff. Sept. 1, 1987. Amended by Acts 1989, 71st Leg., ch. 1, Sec. 26(e), eff. Aug. 28, 1989.

Sec. 143.035. ALTERNATE PROMOTIONAL SYSTEM IN POLICE DEPARTMENT. (a) This section does not apply to a municipality that has adopted The Fire and Police Employee Relations Act (Article 5154c-1, Vernon's Texas Civil Statutes).

(b) On the recommendation of the head of the police department and a majority vote of the sworn police officers in the department, the commission may adopt an alternate promotional system to select persons to occupy nonentry level positions other than positions that are filled by appointment by the department head. The promotional system must comply with the requirements prescribed by this section.

(c) The commission shall order the director to conduct an election and to submit the revised promotional system either to all sworn police officers within the rank immediately below the classification for which the promotional examination is to be administered or to all sworn police officers in the department.

(d) The director shall hold the election on or after the 30th day after the date notice of the election is posted at the



AGENDA MEMORANDUM



BOARD: Civil Service Commission

AGENDA ITEM #: 3.C.

DATE SUBMITTED: July 13, 2021

MEETING DATE: July 16, 2021

FROM: Beatriz Fuentes, HR Coordinator

DEPARTMENT: HR

DIRECTOR: Anali Alanis

Agenda Item: Consideration and take action to approve the eligibility list resulting from the Engineer promotional examination subject to possible recalculation.

Classification: Regular

(* If closed session, City Attorney must review and approve.)

Issue:

Fiscal Consideration:

Staff Recommendation:

Alternatives:

Exclude Material from Public Packet? No

Reason:

ROUTING:

Beatriz Fuentes

Anali Alanis

Created/Initiated - 7/13/2021

New -