CITY OF HIGHLAND
REGULAR MEETING OF THE CITY COUNCIL
AGENDA

REGULAR MEETING

May 10, 2022
6:00 p.m.
City Hall
Donahue Council Chambers
27215 Base Line
Highland, California

CITY COUNCIL MEMBERS

LARRY McCALLON, MAYOR
PENNY LILBURN, MAYOR PRO TEM
JESSE CHAVEZ, COUNCIL MEMBER
ANAELI SOLANO, COUNCIL MEMBER
JOHN P. TIMMER, COUNCIL MEMBER

STAFF

Joseph A. Hughes - City Manager
Chuck Dantuono - Director of Administrative Services/City Treasurer
Betty Hughes - City Clerk
Lawrence Mainez - Community Development Director
Carlos Zamano - Public Works Director/City Engineer
Maricela Marroquin - City Attorney

MISSION STATEMENT

Highland is dedicated to the betterment of the individual, the family, the neighborhood and the community. The City Council and the staff of Highland are dedicated to providing the quality of public facilities and services that its citizens are willing to fund and will do so as efficiently as possible.

Visit the City's Website at: www.cityofhighland.org

CITY OF HIGHLAND • 27215 BASE LINE • HIGHLAND, CALIFORNIA 92346 • (909) 864-6861☎ • (909) 862-3180 🖷

The City of Highland complies with the Americans with Disabilities Act of 1990. If you require special assistance to participate in this meeting, please call the City Clerk's Department at (909) 864-6861, ext. 226, at least 72 hours prior to the meeting.

Pursuant to Government Code Section 54957.5, any disclosable public records related to an open session item on a regular meeting agenda and distributed by the City of Highland to all or a majority of the City Council less than 72 hours prior to that meeting are available for public inspection at City Hall, 27215 Base Line, Highland, CA 92346, during normal business hours.

Submission of Public Comments: For those wishing to make public comments by email, please submit your comments by email to be read aloud at the meeting. Email comments must be submitted by 5:00 p.m. on May 10, 2022, to the City Clerk at publiccomment@cityofhighland.org. If you are submitting a public comment pertaining to an item on the May 10, 2022 agenda, please identify the agenda item number in the subject line.

For those wishing to make a public comment regarding a public hearing item (No. 13), please identify the agenda item in the subject line. Comments can be submitted any time prior to the meeting, as well as during the meeting up until the close of the public hearing on the corresponding item to be considered part of the record. Please email your comments to publiccomment@cityofhighland.org. All email comments shall be subject to the same rules as would otherwise govern speaker comments at the Council meeting.

Members of the public will be permitted to make public comments in person.

CITY COUNCIL REGULAR MEETING
MAY 10, 2022 - 6:00 p.m.

AGENDA

CALL TO ORDER

INVOCATION

PLEDGE OF ALLEGIANCE

ROLL CALL

REPORT FROM CLOSED SESSION

SPECIAL PRESENTATIONS

Presentation
YMCA Presentation

PUBLIC COMMENT (ITEMS NOT ON THE AGENDA)

To address the City Council, please complete a speaker form located at the entrance and give it to the City Clerk prior to the beginning of the meeting. Your name will be called when it is your turn to speak. State Law prohibits the City Council from taking action on any item not on the agenda. Individual speakers are limited to three minutes each.

Comments received via email by May 10, 2022, 5:00 p.m., will be read into the record, provided that the reading shall not exceed three (3) minutes. Email comments submitted by a speaker that also appears in person to address the same matter will not be read into the record.

CITY COUNCIL CONSENT CALENDAR

1. Waive the Reading of All Ordinances
   RECOMMENDATION: Waive the reading of all Ordinances in their entirety and read by title only.

2. Minutes – April 12, 2022 City Council Regular Meeting
   RECOMMENDATION: Approve the Minutes as submitted.

3. Warrant Register
   RECOMMENDATION: Approve Warrant Register No. 741 for May 10, 2022, in the amount of $4,062,145.10 and Payroll of $212,366.74.

4. Treasurer's Report for March 2022
   RECOMMENDATION: That the City Council receive and file Treasurer's Report for March 2022.

5. Claim Consideration – Erika Madrigal
   RECOMMENDATION: George Hills Company recommends Council reject claim.

6. Claim Consideration – Alejandro Vara Jr.
   RECOMMENDATION: George Hills Company recommends Council reject claim.

7. Street and Drainage Maintenance District 96-1 Annual Report (Fiscal Year 2022/23)
   RECOMMENDATION: That the City Council:
   1) Adopt Resolution No. 2022-_____ giving preliminary approval of the Annual Report; and
   2) Adopt Resolution No. 2022-_____ setting June 14, 2022, as the date of the protest hearing.

8. Consolidated Landscape and Lighting District 96-1 Annual Report (Fiscal Year 2022/23)

RECOMMENDATION: That the City Council:

1) Adopt Resolution No. 2022-_____ giving preliminary approval of the Annual Report; and
2) Adopt Resolution No. 2022-_____ setting June 14, 2022, as the date of the protest hearing.

9. Authorization to Submit Claims for TDA Article 3 Funds – Messina Street/Seine Avenue Sidewalk Gap (Project No. swk21001)

RECOMMENDATION: That the City Council:

1) Adopt Resolution No. 2022-_____ authorizing submittal of periodic claims to San Bernardino County Transportation Authority (SBCTA) for Transportation Development Act (TDA) Article 3 funds for the Messina Street/Seine Avenue Sidewalk Gap Project; and
2) Authorize the Public Works Director/City Engineer and the Director of Administrative Services/City Treasurer to execute the claim documents.

10. Design Services Proposal/TKE Engineering, Inc. – Sidewalk Improvement Project (swk21001)

RECOMMENDATION: That the City Council:

1) Approve proposal from TKE Engineering, Inc., to provide engineering design services for the Transportation Development Act Article III Sidewalk Improvement Project (swk21001); and
2) Authorize the City Manager to approve contract amendments up to 10% of the proposal amount.

11. Notice of Completion – Project No. str20001 (Bid No. 2020-10, "Pavement Management Program – Sector E Pavement Rehabilitation")

RECOMMENDATION: That the City Council:

1) Accept Project No. str20001 (Bid No. 2020-10, "Pavement Management Program – Sector E Pavement Rehabilitation") as complete;
2) Authorize the Mayor to sign the Notice of Completion; and
3) Direct the City Clerk to file the Notice of Completion.

12. Sheriff's Department Schedule A Amendment for FY 2022-2023 and Amendment No. 1 to the Reimbursement Agreement between the City of Highland and East Valley Water District for Law Enforcement Services for FY 2022-2023

RECOMMENDATION: That the City Council:

1) Authorize the Mayor to execute the amended Schedule A contract (FY 2022-2023) for Law Enforcement Services with the San Bernardino County Sheriff's Department; and
2) Approve Amendment No. 1 to the Reimbursement Agreement between the City of Highland and East Valley Water District for Law Enforcement Services (FY 2022-2023).

CITY COUNCIL PUBLIC HEARING

The order of business for Public Hearings shall be:

1) Mayor opens Public Hearing;
2) Staff presentation;
3) Applicant/Representative presentation;
4) Speakers in favor of proposal;
5) Speakers in opposition to proposal;
6) Applicant rebuttal;
7) Mayor closes Public Hearing;
8) Council discussion, motion and vote.

ONCE THE PUBLIC HEARING IS CLOSED NO FURTHER TESTIMONY IS TAKEN.

For those wishing to make a public comment regarding a public hearing item (No. 13), please identify the agenda item in the subject line. Comments can be submitted any time prior to the meeting, as well as during the meeting up until the close of the public hearing on the corresponding item to be considered as part of the record. Please email your comments to publiccomment@cityofhighland.org. The City Clerk shall read all email comments provided that the reading shall not exceed three (3) minutes because this is the time limit for speakers at a Council Meeting.

13. Resolution No. 2022-_____ Fixing the Highland Paramedic Special Tax Rate for Fiscal Year 2022-2023
RECOMMENDATION: That the City Council adopt Resolution No. 2022-_____ fixing the Highland paramedic Special Tax rate for Fiscal Year 2022-2023.

CITY COUNCIL LEGISLATIVE

14. Contract Award – Bid No. 2022-03, "Highland City Hall HVAC Rooftop Package Unit Replacement Project"
RECOMMENDATION: That the City Council award the contract to replace eleven (11) City Hall rooftop HVAC units to the responsive low bidder, Therma LLC (Therma), in the amount of $204,621.

15. Incidental Take Permit for Base Line Bridge over City Creek (Project No. brg07001)
RECOMMENDATION: That the City Council approve a permit fee in the amount of $20,750 from California Department of Fish and Wildlife (CDFW) for geotechnical exploration of two small test pits for Base Line Bridge over City Creek project.

16. Purchase of New Type I Fire Engine
RECOMMENDATION: That the City Council approve moving forward with the order and purchase of a new Type I Fire Engine from KME Rev Group in the amount of $772,613.72 through the City's membership in Sourcewell;

OR

That the City Council approve moving forward with the order and purchase of a new Type I Fire Engine from KME Rev Group through the City's membership in Sourcewell and take the 100% prepayment discount of $19,875. The purchase price would then be $752,738.72.

17. City Manager Report and Comments (Work Program, Regional/Legislative/ Development Issues, Subcommittees, etc.)
RECOMMENDATION: Discussion and possible action.

18. Council Member Comments (Agency/Committee/AB 1234 Reports, District Updates, etc.)
RECOMMENDATION: Discussion and possible action.

ANNOUNCEMENTS

CLOSED SESSION

CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION
Significant exposure to litigation pursuant to Government Code Section 54956.9(d)(2) and/or (d)(3):
One case.

ADJOURN

Regular Meetings

Effective March 1, 2022, pursuant to Resolution No. 2022-001, the regular City Council meetings will be held once a month on the second Tuesday of each month.

June 14; July 12; August 9; September 13; October 11; November 8; December 13

I, Betty Hughes, City Clerk, certify I caused to be posted this Agenda on or before May 5, 2022, by 5:30 p.m., on our website at www.cityofhighland.org and in the following designated areas:

Highland Branch Library 7863 Central Avenue	Fire Station No. 1 26974 Base Line	City Hall 27215 Base Line

Date: May 5, 2022

Betty Hughes, MMC
City Clerk

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Betty Hughes, MMC, City Clerk

SUBJECT: Waive the Reading of All Ordinances

RECOMMENDATION: Waive the reading of all Ordinances in their entirety and read by title only.

Approved _____ Motion _____ Second _____ Agenda Item No. 1

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

City Clerk

City Manager

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Betty Hughes, MMC, City Clerk

SUBJECT: Minutes – April 12, 2022 Regular Meeting

RECOMMENDATION: Approve the minutes as submitted.

Approved _____ Motion _____ Second _____ Agenda Item No. 2

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

City Clerk

City Manager

MINUTES
CITY COUNCIL REGULAR MEETING
APRIL 12, 2022

CALL TO ORDER

The regular meeting of the City Council of the City of Highland was called to order at 6:00 p.m. by Mayor McCallon at the Donahue Council Chambers, 27215 Base Line, Highland, California.

The invocation was given by Pastor Jeff Harper, Arden Hills Seventh Day Adventist Church, and the Pledge of Allegiance was led by Council Member Timmer.

ROLL CALL

Present: Chavez, McCallon, Solano, Timmer
Absent: Lilburn

REPORT FROM CLOSED SESSION

None

SPECIAL PRESENTATIONS

Mayor McCallon presented a Proclamation proclaiming April 29, 2022, as Arbor Day.

Mayor McCallon presented Sherie Berkebile, One Legacy Ambassador, with a Proclamation proclaiming April 2022 as the Department of Motor Vehicle (DMV) Donate Life month.

PUBLIC COMMENT (ITEMS NOT ON THE AGENDA)

Sophia Trovato spoke regarding safety issues with traffic in her neighborhood of Base Line and Church Avenue.

Carmen Billingslay spoke regarding safety issues with traffic in her neighborhood of Base Line and Church Avenue.

Eva Garcia spoke regarding her concerns with parking and safety issues within her neighborhood.

David Gandolfi spoke regarding his request for an app for the City of Highland which will allow citizens to report items of concern.

CITY COUNCIL CONSENT CALENDAR

A MOTION was made by Council Member Solano, seconded by Council Member Chavez, to approve the consent calendar as submitted. Motion carried on a roll call vote, 4-0, with Mayor Pro Tem Lilburn being absent.

1. Waive the Reading of All Ordinances
   Waived the reading of all Ordinances in their entirety and read by title only.

2. Minutes – March 8, 2022 City Council Regular Meeting
   Approved the Minutes as submitted.

3. Warrant Register
   Approved Warrant Register No. 740 for April 12, 2022, in the amount of $8,169,812.93 and Payroll of $212,252.88.

4. Treasurer's Report for February 2022
   Received and filed Treasurer's Report for February 2022.

5. Claim Consideration – Jill Szendrodi
   Rejected claim.

6. Claim Consideration – Maria Del Carmen Jimenez
   Rejected claim.

7. Claim Consideration – Jasbel Gutierrez
   Rejected claim.

8. Contract Renewal – 2021-01, "Tree Trimming and Arborist Service Agreement"
   Extended the Tree Trimming and Arborist Service Agreement with West Coast Arborists, Inc. (Contractor) for one year.

9. Contract Renewal – 2018-12, "Facilities and Parks Janitorial Service"
   Approved extension of the facilities and parks janitorial maintenance contract 2018-12 with Base Hill, Inc., dba Jan Point, for one year.

10. Easements Acceptance/Tract 20142 – Santa Ana Canyon Road (Kiel) Beazer Homes
    1) Accepted Grants of Easement for Road and Drainage purposes (Right-of-Way Dedications) and Drainage purposes (Storm Drain Easement) from Beazer Homes; and
    2) Directed the City Clerk to record the Grants of Easement.

11. City Creek Levee Trail – North of Base Line and East of Boulder Avenue
    Approved Saturday, June 4, 2022, as the date for the 26th Annual Highland Community Trails Day Event to be staged at the City Creek Levee Trail.

12. Special Event Permit (SEP 22-003) by Immanuel Baptist Church for a 4th of July Community Event and Request for Co-sponsorship
    1) Approved the Special Event Permit (SEP 22-003) subject to the conditions of approval; and
    2) Approved a request by Immanuel Baptist Church for co-sponsorship and waived City Police and Fire permit fees, and Public Works traffic control in the amount of approximately $15,143.68.

CITY COUNCIL PUBLIC HEARING

No public hearing.

CITY COUNCIL LEGISLATIVE

13. Contract with San Bernardino County for Animal Control Services for FY 2022/2023 (Amendment No. 8)

Community Development Director Mainez gave a brief review of the staff report.

A MOTION was made by Council Member Timmer, seconded by Council Member Solano, to approve the contract with San Bernardino County for Animal Care and Control Services for FY 2022/23 in the amount of $467,172.00 and authorize the Mayor to sign the contract. Motion carried, 4-0, with Mayor Pro Tem Lilburn being absent.

14. Southern California Edison LS-1 Option E, Energy Efficiency Light Emitting Diode Fixture Replacement Program

Public Services Manager Morgan gave a brief review of the staff report.

A MOTION was made by Council Member Solano, seconded by Council Member Chavez, to approve and authorize the Mayor to execute the Southern California Edison LS-1 Option E, Energy Efficiency Light Emitting Diode Fixture Replacement Agreement between the City of Highland and Southern California Edison. Motion carried, 4-0, with Mayor Pro Tem Lilburn being absent.

15. Select the Firm of Van Lant & Fankhanel, LLP, as the City's Auditors and Approve a Professional Services Agreement with Van Lant & Fankhanel, LLP

Director of Administrative Services Dantuono gave a brief review of the staff report.

A MOTION was made by Council Member Solano, seconded by Council Member Timmer, to:
1) Approve the selection of Van Lant & Fankhanel, LLP, as the City's auditors; and
2) Approve the attached professional services agreement with Van Lant & Fankhanel, LLP. Motion carried, 4-0, with Mayor Pro Tem Lilburn being absent.

16. iWorQ Enterprise Service Agreement for Construction and Land Use Permitting Software Upgrades (City Council Work Program 2021/2022 – HP+)

Community Development Director Mainez gave a brief review of the staff report.

A MOTION was made by Council Member Solano, seconded By Council Member Chavez, to authorize the Mayor to approve the subject Service Agreement, and approve the following budget adjustment for FY 2022-2023: $81,602 to be expended from 027-8490-4255 (Misc. Grants-Software Support) and $81,602 to be received in 027-8490-9210 (Misc. Grants-State Grants). Motion carried, 4-0, with Mayor Pro Tem Lilburn being absent.

17. Irrigation Meters for Boulder Avenue Improvements (Project No. brg04004a)

Public Works Director/City Engineer Zamano gave a brief review of the staff report.

A MOTION was made by Council Member Timmer, seconded by Council Member Solano, to approve a fee in the amount of $56,500.32 from East Valley Water District (EVWD) for installation of three (3) irrigation meters for Boulder Avenue Improvement project. Motion carried, 4-0, with Mayor Pro Tem Lilburn being absent.

18. Application for Federal Grant – 3rd and 5th Street Corridors Improvement Project

Public Works Director/City Engineer Zamano gave a brief review of the staff report.

A MOTION was made by Council Member Solano, seconded by Council Member Chavez, to adopt Resolution No. 2022-012 to:

1) Authorize submission of a federal Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant application to the U.S. Department of Transportation for the 3rd and 5th Street Corridors Improvement Project;
2) Contingent upon award of federal RAISE grant and review by the City Attorney, approving an agreement with the Inland Valley Development Agency (IVDA) and the City of San Bernardino (COSB) regarding implementation of the Project; and
3) Agreeing to provide applicable local match funds for the project. Motion carried, 4-0, with Mayor Pro Tem Lilburn being absent.

RESOLUTION NO. 2022-012
A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HIGHLAND, CALIFORNIA, APPROVING SUBMISSION OF A GRANT APPLICATION TO THE U.S. DEPARTMENT OF TRANSPORTATION, FOR THE 3RD AND 5TH STREET CORRIDORS IMPROVEMENT PROJECT, APPROVING AN AGREEMENT WITH THE INLAND VALLEY DEVELOPMENT AGENCY & THE CITY OF SAN BERNARDINO RELATIVE TO IMPLEMENTATION OF THE PROJECT, AND AGREEING TO PROVIDE APPLICABLE LOCAL MATCH FUNDS

19. City Manager Report and Comments (Work Program, Regional/Legislative/ Development Issues, Subcommittees, etc.)

City Manager Hughes stated he would like to bring the Council up to date on a few items. First off, regarding the Rubberized Asphalt Concrete (RAC) Grant that the City had received, we have submitted our final report to CalRecycle for that in the amount of $120,000. The report includes reimbursement for construction of rubberized asphalt concrete over twenty-five segments on four capital improvement projects and through this grant we were able to divert 25,000 waste tires from going to landfills. The Sector E Pavement Rehabilitation Project construction was completed on April 9 and is the last phase of the approved five-year pavement management on Sector E. The project included pavement rehabilitation on twenty-five residential street segments, approximately 3.6 miles in length, and the Notice of Completion will be placed on the May 10 City Council agenda. Staff is now going through the process of coming up with our next five-year Pavement Management Program (PMP) and that will be coming forward to the City Council for review. The cooperative agreement with the City and the County regarding the Tippecanoe project, which was constructed on Tippecanoe Avenue between 6th Street and Ward Street and Cooley Street was substantially completed on April 6. The only remaining work is the installation of several pedestrian push buttons at signalized intersections on Tippecanoe Avenue. The poles and equipment have been delayed so those will be installed as soon as they are received. Work is anticipated to be completed by May 13 and we are scheduling the Notice of Completion on June 14. The SR210 Victoria Avenue interchange, a draft cooperative agreement between Caltrans and the City of Highland for the project approval and environmental document phase of the Victoria Avenue Interchange has been prepared. Comments from the City and San Manuel Band of Mission Indians will be sent to Caltrans this week. The draft agreement is anticipated to be finalized in May of 2022 and presented to the City Council on June 14. On April 5, the Planning Commission approved a design review entitlement for Roquet Paving Company to construct a new business office and shop on the vacant property located at the 27000 block of Meines Street. This will include a 5,000 square foot building, wrought iron fence, decorative screening, landscaping, and new public right-of-way improvements. Also from Community Development, Code Compliance Officer Barrie Owens received the honor of being Employee of the Year for the City at last week's Chamber of Commerce installation dinner. Congratulations to Barrie on that. Fire Department stats for the month of March. The Highland Fire Department responded to 611 calls for service and from January to current, they have responded to 1,400 medical emergencies, 134 traffic collisions, 23 vehicle fires, 18 vegetation fires and 50 structure fires. The Sheriff's Department from March 7 through April 10, and now that we are meeting once a month the numbers are going to go up. The Sheriff's Department responded to 3,928 calls for service, took 349 reports and made 175 arrests. Just to mark your calendar for a few items, Thursday, April 28 at 9:00 a.m. will be the Arbor Day tree planting ceremony and that will be at Cunningham Neighborhood Park. Saturday, April 30 at 10:00 a.m. to 2:00 p.m., the DEA will be doing a National Prescription Drug Take Back Day at the Highland Police Station. Saturday, May 7,

the Highland Improvement Team will be working on a community day of service project at the Highland Community Park and that will be from 9:00 a.m. to 11:00 a.m. On May 9, there will be a Blood Drive committee meeting held here at City Hall. May 23, there will be a Blood Drive held at the Highland police station from 12:00 p.m. to 5:00 p.m. For the month of March, the illegal dumping work orders from Burrtec were 173 for the month of March and in April, one week's worth of reporting, there were 43.

20. Council Member Comments (Agency/Committee/AB 1234 Reports, District Updates, etc.)

Council Member Timmer stated he would like to piggyback on what City Manager Hughes stated about the road work that is being completed. He drives the neighborhoods in Highland and the roads looks good. He would like to say thank you for the street maintenance being done.

Council Member Solano stated she attended the Citrus Harvest Festival last month in March and it was a great event. She would like to acknowledge staff and all the challenging work that went into putting on a seamless event.

ANNOUNCEMENTS

None

CLOSED SESSION

None

ADJOURN

There being no further business, Mayor McCallon adjourned the meeting at 6:48 p.m.

Submitted By:

Betty Hughes, MMC
City Clerk

Approved By:

Larry McCallon
Mayor

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

REVIEWED BY: Chuck Dantuono, Director of Administrative Services/City Treasurer

PREPARED BY: Leticia Nava-Cruz, Accounting Supervisor

SUBJECT: Warrant Register #741

RECOMMENDATION: City Council to approve Warrant Register #741; Warrants in the amount of $4,062,145.10 and Payroll in the amount of $212,366.74.

FISCAL IMPACT: The total of Cash and Expenditures is $4,274,511.84.

PUBLIC NOTICE: The agenda for this item was posted at the three required locations.

BACKGROUND: See Printouts Attached.

Approved _____	Motion_____	Second _____	Agenda Item No. 3
Denied _____	Ayes_____		
Continued_____	Noes _____		File No. _____
Tabled_____	Abstain_____		
	Absent_____		

City Clerk

City Manager

CITY OF HIGHLAND

WARRANT REGISTER #741

May 10, 2022

Warrants:

4/8/2022	Payroll Wire #667-670 & Ck #85014-85016	60,135.91
4/12/2022	Ck#85017-85057 & Wire #1002086296	392,790.82
4/19/2022	Ck#85058-85083	173,426.79
4/22/2022	Payroll Wire #671-674 & Ck #85084-85085	62,016.83
4/26/2022	Ck#85086-85126	2,345,833.29
5/3/2022	Ck#85127-85174 & Wire #1002100672	1,027,941.46
	Total Warrants	$4,062,145.10

Payroll:

4/8/2022	Direct Deposits #11685-11727	104,879.54
4/8/2022	Ck #658	285.72
4/22/2022	Direct Deposits #11728-11770	106,915.76
4/22/2022	Ck #659	285.72
	Total Payroll	$ 212,366.74
	Total Warrants & Payroll	**$4,274,511.84**

APPROVED BY:

Larry McCallon
Finance Subcommittee

Joseph A. Hughes
City Manager

John Timmer
Finance Subcommittee

Chuck Dantuono
Director of Administrative
Services/City Treasurer

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
667	4/8/2022	000003 ICMA RETIREMENT TRUST-457	ICMA DEFERRED COMP 457: PAYMENT	
			ICMA DEFERRED COMP 457: Payment 001.1170	8,825.36
			ICMA DEFERRED COMP 457: Payment 004.1170	991.16
			ICMA DEFERRED COMP 457: Payment 010.1170	819.23
			ICMA DEFERRED COMP 457: Payment 012.1170	12.50
			ICMA DEFERRED COMP 457: Payment 016.1170	12.50
			ICMA DEFERRED COMP 457: Payment 023.1170	5.00
			ICMA DEFERRED COMP 457: Payment 041.1170	327.70
			ICMA DEFERRED COMP 457: Payment 070.1170	293.81
			Total :	**11,287.26**
668	4/8/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	EPMC: PAYMENT	
			PERS: Payment 004.1145	2,820.81
			PERS: Payment 006.1145	324.18
			PERS: Payment 010.1145	965.85
			PERS: Payment 012.1145	177.17
			PERS: Payment 016.1145	177.13
			PERS: Payment 023.1145	116.16
			PERS: Payment 024.1145	19.50
			PERS: Payment 041.1145	451.29

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
668	4/8/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	(Continued)	
			PERS: Payment	
			042.1145	621.92
			PERS: Payment	
			070.1145	781.56
			PERS SURVIVOR: Payment	
			001.1145	24.27
			PERS SURVIVOR: Payment	
			004.1145	4.60
			PERS SURVIVOR: Payment	
			006.1145	1.29
			PERS SURVIVOR: Payment	
			010.1145	1.08
			PERS SURVIVOR: Payment	
			012.1145	0.56
			PERS SURVIVOR: Payment	
			016.1145	0.54
			PERS SURVIVOR: Payment	
			023.1145	0.28
			PERS SURVIVOR: Payment	
			024.1145	0.04
			PERS SURVIVOR: Payment	
			041.1145	0.33
			PERS SURVIVOR: Payment	
			042.1145	1.68
			PERS SURVIVOR: Payment	
			070.1145	0.67
			EPMC: Payment	
			001.1145	530.98
			EPMC: Payment	
			004.1145	122.54
			EPMC: Payment	
			006.1145	19.81
			EPMC: Payment	
			010.1145	42.04
			EPMC: Payment	
			012.1145	2.37

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
668	4/8/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	(Continued)	
			EPMC: Payment	
			016.1145	2.37
			EPMC: Payment	
			023.1145	6.62
			EPMC: Payment	
			024.1145	0.56
			EPMC: Payment	
			041.1145	31.58
			EPMC: Payment	
			042.1145	11.55
			EPMC: Payment	
			070.1145	54.69
			PERS: Payment	
			001.1145	13,156.62
			Total :	**20,472.64**
669	4/8/2022	000119 INTERNAL REVENUE SERVICE	FEDERAL TAXES: PAYMENT	
			MEDICARE: Payment	
			006.1140	74.58
			MEDICARE: Payment	
			010.1140	178.74
			MEDICARE: Payment	
			012.1140	45.06
			MEDICARE: Payment	
			016.1140	45.02
			MEDICARE: Payment	
			023.1140	24.48
			MEDICARE: Payment	
			024.1140	4.72
			MEDICARE: Payment	
			041.1140	76.26
			MEDICARE: Payment	
			042.1140	153.88
			MEDICARE: Payment	
			070.1140	193.02
			FEDERAL TAXES: Payment	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
669	4/8/2022	000119 INTERNAL REVENUE SERVICE	(Continued)	
			001.1120 FEDERAL TAXES: Payment	10,905.19
			004.1120 FEDERAL TAXES: Payment	2,313.96
			006.1120 FEDERAL TAXES: Payment	253.38
			010.1120 FEDERAL TAXES: Payment	849.75
			012.1120 FEDERAL TAXES: Payment	98.83
			016.1120 FEDERAL TAXES: Payment	98.79
			023.1120 FEDERAL TAXES: Payment	73.02
			024.1120 FEDERAL TAXES: Payment	15.37
			041.1120 FEDERAL TAXES: Payment	414.10
			042.1120 FEDERAL TAXES: Payment	396.20
			070.1120 SOCIAL SECURITY: Payment	951.62
			001.1140 SOCIAL SECURITY: Payment	603.38
			070.1140 MEDICARE: Payment	87.06
			001.1140 MEDICARE: Payment	2,870.40
			004.1140	573.26
			Total :	**21,300.07**
670	4/8/2022	000001 CALIF STATE EMPLOYMENT	STATE TAXES: PAYMENT	
			STATE TAXES: Payment	
			001.1130 STATE TAXES: Payment	4,271.37
			004.1130	895.78

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
670	4/8/2022	000001 CALIF STATE EMPLOYMENT	(Continued)		
			STATE TAXES: Payment 006.1130		90.07
			STATE TAXES: Payment 010.1130		321.97
			STATE TAXES: Payment 012.1130		39.29
			STATE TAXES: Payment 016.1130		39.30
			STATE TAXES: Payment 023.1130		20.20
			STATE TAXES: Payment 024.1130		5.69
			STATE TAXES: Payment 041.1130		167.98
			STATE TAXES: Payment 042.1130		124.90
			STATE TAXES: Payment 070.1130		387.85
				Total :	**6,364.40**
85014	4/8/2022	000433 ARROWHEAD UNITED WAY	ARROWHEAD UNITED WAY: PAYMENT		
			ARROWHEAD UNITED WAY: Payment 001.1180		11.27
			ARROWHEAD UNITED WAY: Payment 004.1180		0.76
			ARROWHEAD UNITED WAY: Payment 041.1180		2.27
			ARROWHEAD UNITED WAY: Payment 070.1180		0.70
				Total :	**15.00**
85015	4/8/2022	003804 AFLAC WWHQ	AFLAC ACCIDENT INSURANCE: PAYMENT		
			AFLAC SPECIFIED HEALTH INS: Payment 001.1181		2.96
			AFLAC SPECIFIED HEALTH INS: Payment 012.1181		1.49
			AFLAC SPECIFIED HEALTH INS: Payment		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85015	4/8/2022	003804 AFLAC WWHQ	(Continued)	
			016.1181 AFLAC ACCIDENT INSURANCE: Payment	1.49
			001.1181 AFLAC ACCIDENT INSURANCE: Payment	108.78
			004.1181 AFLAC ACCIDENT INSURANCE: Payment	13.98
			012.1181 AFLAC ACCIDENT INSURANCE: Payment	3.57
			016.1181 AFLAC ACCIDENT INSURANCE: Payment	3.57
			023.1181 AFLAC ACCIDENT INSURANCE: Payment	5.80
			024.1181 AFLAC CANCER INSURANCE: Payment	0.26
			001.1181 AFLAC DISABILITY INSURANCE: Payment	18.63
			001.1181 AFLAC DISABILITY INSURANCE: Payment	278.26
			004.1181 AFLAC DISABILITY INSURANCE: Payment	24.69
			012.1181 AFLAC DISABILITY INSURANCE: Payment	6.31
			016.1181 AFLAC DISABILITY INSURANCE: Payment	6.31
			024.1181 AFLAC HOSPITAL INSURANCE: Payment	0.51
			001.1181 AFLAC HOSPITAL INSURANCE: Payment	143.65
			012.1181 AFLAC HOSPITAL INSURANCE: Payment	6.71
			016.1181 AFLAC HOSPITAL INSURANCE: Payment	6.70
			023.1181 AFLAC DENTAL: Payment	12.32
			001.1181 AFLAC DENTAL: Payment	27.89

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85015	4/8/2022	003804 AFLAC WWHQ	(Continued)	
			004.1181 AFLAC DENTAL: Payment	0.56
			041.1181 AFLAC DENTAL: Payment	1.67
			070.1181	0.54
			Total :	**676.65**
85016	4/8/2022	004556 STATE OF CALIFORNIA	STATE TAX GARNISHMENT: PAYMENT	
			STATE TAX GARNISHMENT: Payment 001.1180	11.93
			STATE TAX GARNISHMENT: Payment 006.1180	7.96
			Total :	**19.89**
7 Vouchers for bank code : wfb			**Bank total :**	**60,135.91**
7 Vouchers in this report			**Total vouchers :**	**60,135.91**

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85017	4/12/2022	000030 SAN BERNARDINO COUNTY SHERIFFS	VEHICLE MAINTENANCE - 07/21-9/21		
			VEHICLE MAINTENANCE - 07/21-9/21		
			001.2000.4240		12,611.64
			CELL PHONE - 7/21-9/21		
			CELL PHONE - 7/21-9/21		
			001.2000.4061		729.01
			TRANSCRIPTIONS - 7/21-9/21		
			TRANSCRIPTIONS - 7/21-9/21		
			001.2000.4560		3,179.17
			O/T & ON-CALL - 7/21-9/21		
			O/T & ON-CALL - 7/21-9/21		
			001.2000.4560		101,483.29
			O/T COVID 19 - 7/21-9/21		
			O/T COVID 19 - 7/21-9/21		
			001.2000.4560		10,992.80
			O/T SPECIAL EVENTS - 7/21-9/21		
			O/T SPECIAL EVENTS - 7/21-9/21		
			001.2000.4560		7,761.65
			PERSONNEL CREDITS - 7/21-9/21		
			PERSONNEL CREDITS - 7/21-9/21		
			001.2000.4560		-34,178.40
				Total :	**102,579.16**
85018	4/12/2022	000056 DEPARTMENT OF CONSERVATION	SMIP 01/2022-03/2022		
			SMIP 01/2022-03/2022		
			001.4500.4542		4,579.60
			SMIP 01/2022-03/2022		
			051.1479		-228.98
				Total :	**4,350.62**
85019	4/12/2022	000085 EAST VALLEY WATER DISTRICT	LMD 02 E-MAR		
			LMD 02 E-MAR		
			012.8500.4030		806.69
			LMD 48 C-MAR		
			LMD 48 C-MAR		
			012.8500.4030		1,678.42
			LMD 48 C-MAR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85019	4/12/2022	000085 EAST VALLEY WATER DISTRICT	(Continued)	
			LMD 48 C-MAR	
			012.8500.4030	1,214.84
			LMD 48-MAR	
			LMD 48-MAR	
			012.8500.4030	1,186.85
			LMD 48 B-MAR	
			LMD 48 B-MAR	
			012.8500.4030	268.89
			LMD 31-MAR	
			LMD 31-MAR	
			012.8500.4030	515.33
			LMD 00 - BASELINE-MAR	
			LMD 00 - BASELINE-MAR	
			012.8500.4030	468.94
			LMD 22-MAR	
			LMD 22-MAR	
			012.8500.4030	258.26
			LMD 03 YARNELL-MAR	
			LMD 03 YARNELL-MAR	
			012.8500.4030	53.71
			LMD 02 A-MAR	
			LMD 02 A-MAR	
			012.8500.4030	82.19
			LMD 03 BASELINE-MAR	
			LMD 03 BASELINE-MAR	
			012.8500.4030	80.08
			LMD 20 BASELINE-MAR	
			LMD 20 BASELINE-MAR	
			012.8500.4030	441.06
			LMD 01 A-MAR	
			LMD 01 A-MAR	
			012.8500.4030	108.02
			LMD 70-MAR	
			LMD 70-MAR	
			012.8500.4030	40.64
			LMD 35-MAR	
			LMD 35-MAR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85019	4/12/2022	000085 EAST VALLEY WATER DISTRICT	(Continued)	
			012.8500.4030 LMD 06-MAR LMD 06-MAR	148.52
			012.8500.4030 LMD 01 B-MAR LMD 01 B-MAR	44.52
			012.8500.4030 BEATTIE IRRIGATION-MAR BEATTIE IRRIGATION-MAR	97.86
			001.6000.4030 LMD 30-MAR LMD 30-MAR	4,293.05
			012.8500.4030 LMD 39-MAR LMD 39-MAR	672.38
			012.8500.4030 CANYON OAKS PARK-MAR CANYON OAKS PARK-MAR	750.00
			016.8540.4030 LMD 02 B-MAR LMD 02 B-MAR	595.37
			012.8500.4030 LMD 13-MAR LMD 13-MAR	500.92
			012.8500.4030 LMD 02 D-MAR LMD 02 D-MAR	337.44
			012.8500.4030 LMD 02 C-MAR LMD 02 C-MAR	172.67
			012.8500.4030 LMD 08-MAR LMD 08-MAR	251.75
			012.8500.4030 LMD 20 STREATER-MAR LMD 20 STREATER-MAR	322.39
			012.8500.4030	187.04

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85019	4/12/2022	000085 EAST VALLEY WATER DISTRICT	(Continued)		
			LMD 70 IRRIGATION-MAR		
			LMD 70 IRRIGATION-MAR		
			012.8500.4030		736.07
				Total :	16,313.90
85020	4/12/2022	000108 HIGH TECH SECURITY	ANNUAL EXTINGUISHER MAINT 2022-ST#1		
			ANNUAL EXTINGUISHER MAINT 2022-ST#1		
			028.2050.4070		113.63
			ANNUAL EXTINGUISHER MAINT 2022-ST#1		
			029.2100.4070		113.62
			ANNUAL EXTINGUISHER MAINT 2022-ST#2		
			ANNUAL EXTINGUISHER MAINT 2022-ST#2		
			028.2050.4070		132.43
			ANNUAL EXTINGUISHER MAINT 2022-ST#2		
			029.2100.4070		132.42
			ANNUAL EXTINGUISHER MAINT 2022-POLICE		
			ANNUAL EXTINGUISHER MAINT 2022-POLICE		
			001.2000.4070		124.55
			ANNUAL EXTINGUISHER MAINT 2022-CORP YARD		
			ANNUAL EXTINGUISHER MAINT 2022-CORP YARD		
			004.8310.4070		571.00
			ANNUAL EXTINGUISHER MAINT 2022-CITY HALL		
			ANNUAL EXTINGUISHER MAINT 2022-CITY HALL		
			042.9510.4070		217.10
			ANNUAL EXTINGUISHER MAINT 2022-ST#3		
			ANNUAL EXTINGUISHER MAINT 2022-ST#3		
			028.2050.4070		89.58
			ANNUAL EXTINGUISHER MAINT 2022-ST#3		
			029.2100.4070		89.57
			BURGULAR SYSTEMS-MAY		
			COMM PARK: BURGLARY/FIRE/CCTV SYSTEMS		
			001.6000.4066		55.00
			CORP YARD: BURGLARY/FIRE/CCTV SYSTEMS		
			004.8310.4066		55.00
			CITY HALL: BURGLARY/FIRE/CCTV SYSTEMS		
			042.9510.4066		80.00
			FIRE SYSTEMS-MAY		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85020	4/12/2022	000108 HIGH TECH SECURITY	(Continued)	
			FIRE STATION #3: BURGLARY/FIRE/CCTV	
			028.2050.4066	25.00
			FIRE STATION #3: BURGLARY/FIRE/CCTV	
			029.2100.4066	25.00
			LIBRARY: BURGLARY/FIRE/CCTV SYSTEMS	
			001.6000.4066	50.00
			YMCA: BURGLARY/FIRE/CCTV SYSTEMS	
			001.6000.4066	50.00
			CORP YARD: BURGLARY/FIRE/CCTV SYSTEMS	
			004.8310.4066	85.00
			CITY HALL: BURGLARY/FIRE/CCTV SYSTEMS	
			042.9510.4066	50.00
			POLICE: BURGLARY/FIRE/CCTV SYSTEMS	
			001.2000.4066	85.00
			CCTV SYSTEM-MAY	
			AURANTIA PARK: BURGLARY/FIRE/CCTV	
			001.6000.4066	25.00
			COMM PARK: BURGLARY/FIRE/CCTV SYSTEMS	
			001.6000.4066	50.00
			CORP YARD: BURGLARY/FIRE/CCTV SYSTEMS	
			004.8310.4066	25.00
			CITY HALL: BURGLARY/FIRE/CCTV SYSTEMS	
			042.9510.4066	25.00
			CANYON OAK PARK: BURGLARY/FIRE/CCTV	
			016.8540.4066	25.00
			Total :	**2,293.90**
85021	4/12/2022	000143 COMMUNITY WORKS DESIGN GROUP	DRA 21-004/CUP 21-006 PLAN CHECK-FEB	
			DRA 21-004/CUP 21-006 PLAN CHECK-FEB	
			001.4100.4547	465.00
			DRA 21-007 PLAN CHECK FEB	
			DRA 21-007 PLAN CHECK FEB	
			001.4100.4547	155.00
			CUP 22-001 PLAN CHECK FEB	
			CUP 22-001 PLAN CHECK FEB	
			001.4100.4547	155.00
			DRA 22-002 PLAN CHECK FEB	

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85021	4/12/2022	000143 COMMUNITY WORKS DESIGN GROUP	(Continued)		
			DRA 22-002 PLAN CHECK FEB		
			001.4100.4547		620.00
			DRA 21-004/CUP 21-006 REIMB. FEB		
			DRA 21-004/CUP 21-006 REIMB. FEB		
			001.4100.4547		11.02
				Total :	**1,406.02**
85022	4/12/2022	000155 NEW YORK LIFE	NEW YORK LIFE-APR		
			NEW YORK LIFE-APR		
			001.1180		10.40
			NEW YORK LIFE-APR		
			041.1180		1.95
			NEW YORK LIFE-APR		
			070.1180		0.65
				Total :	**13.00**
85023	4/12/2022	000165 AT&T	CORP YARD-APR		
			CORP YARD-APR		
			004.8310.4060		1,015.44
				Total :	**1,015.44**
85024	4/12/2022	000165 AT&T	CITY HALL-APR		
			CITY HALL-APR		
			042.9510.4060		834.34
				Total :	**834.34**
85025	4/12/2022	000169 PITNEY BOWES GLOBAL FINANCIAL	POSTAGE MACHINE SUPPLIES		
			POSTAGE MACHINE SUPPLIES		
			042.9510.4200		69.60
				Total :	**69.60**
85026	4/12/2022	000194 CITY OF SAN BERNARDINO	TRAFFIC SIGNAL MAINT-OCT-DEC 2021		
			TRAFFIC SIGNAL MAINT-OCT-DEC 2021		
			004.8310.4580		2,579.36
				Total :	**2,579.36**
85027	4/12/2022	000203 SOUTHERN CALIFORNIA EDISON	LS3-VARIOUS LOCATIONS-MAR		
			LS3-VARIOUS LOCATIONS-MAR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85027	4/12/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)	
			013.8510.4011 UPLIGHTING LMD 48-MAR UPLIGHTING LMD 48-MAR	1,078.99
			012.8500.4010 UPLIGHTING LMD 48-MAR	2.86
			013.8510.4011 HIGHLAND AVE ALPR-MAR HIGHLAND AVE ALPR-MAR	41.36
			001.2000.4062 LS-3-28098 1/2 GREENSPOT-MAR LS-3-28098 1/2 GREENSPOT-MAR	18.36
			013.8510.4011 POLICE STATION-MAR POLICE STATION-MAR	329.89
			001.2000.4010 LS3-26790 1/2 3RD ST-MAR LS3-26790 1/2 3RD ST-MAR	5,773.52
			013.8510.4011 BASELINE MEDIAN-MAR BASELINE MEDIAN-MAR	55.99
			004.8310.4010 LS3-28413 1/2 BASELINE-MAR LS3-28413 1/2 BASELINE-MAR	18.57
			013.8510.4011 TC-28405 1/2 BASELINE-MAR TC-28405 1/2 BASELINE-MAR	78.05
			004.8310.4580 LS 2 B CITY WIDE STREET LIGHTS-MAR LS 2 B CITY WIDE STREET LIGHTS-MAR	43.87
			013.8510.4011 CITY HALL-MAR CITY HALL-MAR	13,808.87
			042.9510.4010 LS3-29739 1/2 WHITTEMORE-MAR LS3-29739 1/2 WHITTEMORE-MAR	1,233.14
			013.8510.4011 TC-7576 1/2 HENSLEE-MAR	27.53

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85027	4/12/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)	
			TC-7576 1/2 HENSLEE-MAR	
			004.8310.4580	30.24
			SIGNALS-MAR	
			SIGNALS-MAR	
			004.8310.4580	49.70
			SIGNALS-MAR	
			013.8510.4011	43.18
			AURANTIA PARK-MAR	
			AURANTIA PARK-MAR	
			001.6000.4010	172.05
			CORPORATION YARD-MAR	
			CORPORATION YARD-MAR	
			004.8310.4010	839.20
			LS3-31 BASE LINE AND PALM-MAR	
			LS3-31 BASE LINE AND PALM-MAR	
			013.8510.4011	22.24
			TC-27647 1/2 BASELINE-MAR	
			TC-27647 1/2 BASELINE-MAR	
			004.8310.4580	87.42
			CITY HALL-MAR	
			CITY HALL-MAR	
			042.9510.4010	641.63
			STATION #2-MAR	
			STATION #2-MAR	
			028.2050.4010	229.86
			STATION #2-MAR	
			029.2100.4010	229.85
			LS2 VARIOUS LOCATIONS-MAR	
			LS2 VARIOUS LOCATIONS-MAR	
			013.8510.4011	999.79
			LMD#48C-MAR	
			LMD#48C-MAR	
			012.8500.4010	18.57
			LS1-27260 MEINES ST-MAR	
			LS1-27260 MEINES ST-MAR	
			013.8510.4011	9.44
			LS1 ALLNITE-VARIOUS LOCATIONS-MAR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85027	4/12/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)	
			LS1 ALLNITE-VARIOUS LOCATIONS-MAR	
			013.8510.4011	7,672.88
			LS3-7098 1/2 VICTORIA-MAR	
			LS3-7098 1/2 VICTORIA-MAR	
			013.8510.4011	22.02
			BASELINE MEDIAN-MAR	
			BASELINE MEDIAN-MAR	
			004.8310.4010	17.26
			LIBRARY/ELC-MAR	
			LIBRARY/ELC-MAR	
			001.6000.4010	3,969.99
			LS2-7435 TOULUMNE-MAR	
			LS2-7435 TOULUMNE-MAR	
			013.8510.4011	16.93
			EVC STATIONS-MAR	
			EVC STATIONS-MAR	
			042.9510.4012	488.21
			LMD #55-MAR	
			LMD #55-MAR	
			012.8500.4010	18.57
			OAK CREEK PARK-MAR	
			OAK CREEK PARK-MAR	
			016.8540.4010	18.77
			LMD#48B-MAR	
			LMD#48B-MAR	
			012.8500.4010	18.77
			TC-27647 1/2 BASELINE-MAR	
			TC-27647 1/2 BASELINE-MAR	
			004.8310.4580	67.74
			TC-30 VICTORIA AND 3RD-MAR	
			TC-30 VICTORIA AND 3RD-MAR	
			004.8310.4580	114.39
			LMD 13-MAR	
			LMD 13-MAR	
			012.8500.4010	10.22
			LS-3 METERS-MAR	
			LS-3 METERS-MAR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85027	4/12/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)		
			013.8510.4011		149.81
				Total :	**38,469.73**
85028	4/12/2022	000222 UNDERGROUND SERVICE ALERT	MONTHLY DIG ALERT FEE		
			MONTHLY DIG ALERT FEE		
			004.8310.4553		967.00
			MONTHLY DIG ALERT-APR		
			MONTHLY DIG ALERT FEE-APR		
			004.8310.4553		191.39
				Total :	**1,158.39**
85029	4/12/2022	000237 WILLDAN ASSOCIATES	ICH 17-006 PM IGG-FEB		
			ICH 17-006 PM IGG-FEB		
			027.8490.6813		5,606.25
			ICH 17-004 PM IVDA AGMT-FEB		
			ICH 17-004 PM IVDA AGMT-FEB		
			027.8490.6813		5,637.50
				Total :	**11,243.75**
85030	4/12/2022	000291 HIGHLAND COMMUNITY NEWS	NEWSPAPER PUBLICATIONS-MAR		
			NEWSPAPER PUBLICATIONS-MAR		
			001.1200.4300		3,440.37
				Total :	**3,440.37**
85031	4/12/2022	000433 ARROWHEAD UNITED WAY	ARROWHEAD UNITED WAY: PAYMENT		
			ARROWHEAD UNITED WAY: PAYMENT		
			001.1180		11.25
			ARROWHEAD UNITED WAY: PAYMENT		
			004.1180		0.76
			ARROWHEAD UNITED WAY: PAYMENT		
			041.1180		2.25
			ARROWHEAD UNITED WAY: PAYMENT		
			070.1180		0.74
				Total :	**15.00**
85032	4/12/2022	000487 SMART & FINAL	BREAKROOM SUPPLIES		
			BREAKROOM SUPPLIES		
			042.9510.4200		56.23

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85032	4/12/2022	000487 000487 SMART & FINAL	(Continued)	Total :	**56.23**
85033	4/12/2022	000824 J & M TROPHIES	CHF: PLAQUES		
			CHF: PLAQUES		
			051.1471		309.94
				Total :	**309.94**
85034	4/12/2022	000979 VERIZON WIRELESS	CELL PHONES-MAR		
			CELL PHONE-MAR		
			001.2000.4061		164.41
			AIR CARDS-MAR		
			001.2000.4062		1,064.32
			CELL PHONES-MAR		
			001.6000.4061		66.83
			CELL PHONES-MAR		
			001.6010.4061		30.73
			CELL PHONES-MAR		
			004.8310.4061		151.97
			AIR CARDS-MAR		
			004.8310.4062		76.02
			CELL PHONES-MAR		
			028.2050.4061		141.97
			AIR CARDS-MAR		
			028.2050.4062		329.24
			CELL PHONES-MAR		
			042.9510.4061		690.66
			AIR CARDS-MAR		
			042.9510.4062		228.06
				Total :	**2,944.21**
85035	4/12/2022	001072 AUTO ZONE	VEHICLE MAINT-#107		
			VEHICLE MAINT-#107		
			004.8310.4240		7.23
				Total :	**7.23**
85036	4/12/2022	001320 HIGHLAND SENIOR CENTER	CDBG CV SENIOR CENTER MEAL REIM-MAR		
			CDBG CV SENIOR CENTER MEAL REIM-MAR		
			006.8400.4353		4,464.82

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85036	4/12/2022	001320 HIGHLAND SENIOR CENTER	(Continued)		
			CDBG REIMBURSEMENT-MAR		
			CDBG REIMBURSEMENT-MAR		
			006.8400.4348		2,100.00
				Total :	**6,564.82**
85037	4/12/2022	001439 OFFICE SOLUTIONS	OFFICE SUPPLIES		
			OFFICE SUPPLIES		
			001.0500		54.38
			30% RECYCLED 11X17 COPY PAPER		
			042.9510.4200		75.37
			30% RECYCLED 8.5X11 COPY PAPER		
			042.9510.4200		301.31
			TONERS		
			TONERS		
			042.9510.4200		330.36
				Total :	**761.42**
85038	4/12/2022	001476 TIME WARNER CABLE	CITY HALL TELE/INT-MAR		
			CITY HALL TELE/INT-MAR		
			042.9510.4065		1,651.87
				Total :	**1,651.87**
85039	4/12/2022	001618 INNOVATIVE FEDERAL STRATEGIES	PROFESSIONAL SERVICES-MAR		
			PROFESSIONAL SERVICES-MAR		
			023.3890.4554		3,000.00
				Total :	**3,000.00**
85040	4/12/2022	001934 COMMONWEALTH LAND TITLE CO.	TITLE REPORT - HIBISCUS/LILLIAN LN		
			TITLE REPORT - HIBISCUS/LILLIAN LN		
			070.7000.4611		750.00
				Total :	**750.00**
85041	4/12/2022	002710 HERNANDEZ, KROONE & ASSOCIATES	STR18001 R/W IVDA-FEB		
			STR18001 R/W IVDA-FEB		
			027.8490.6550		912.25
			STR18001 R/W RDA07-FEB		
			STR18001 R/W RDA07-FEB		
			010.3830.6550		912.85

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85041	4/12/2022	002710 HERNANDEZ, KROONE & ASSOCIATES	(Continued)		
			STR18001 R/W SMBMI-FEB		
			STR18001 R/W SMBMI-FEB		
			027.8490.6550		912.25
			STR18001 R/W EDA-FEB		
			STR18001 R/W EDA-FEB		
			030.8495.6550		3,213.42
			STR18001 PS&E IVDA-FEB		
			STR18001 PS&E IVDA-FEB		
			027.8490.6550		770.28
			STR18001 PS&E RDA07-FEB		
			STR18001 PS&E RDA07-FEB		
			010.3830.6550		770.79
			STR18001 PS&E SMBMI-FEB		
			STR18001 PS&E SMBMI-FEB		
			027.8490.6550		770.28
			STR18001 PS&E EDA-FEB		
			STR18001 PS&E EDA-FEB		
			030.8495.6550		2,713.34
				Total :	**10,975.46**
85042	4/12/2022	002960 BURRTEC WASTE INDUSTRIES INC	SOLID WASTE PROG - 02/19/22-03/18/22		
			SOLID WASTE PROG - 02/19/22-03/18/22		
			051.1496		135,433.09
				Total :	**135,433.09**
85043	4/12/2022	003044 THOMSON REUTERS WEST	CODE BOOKS-APR		
			CODE BOOKS-APR		
			001.1200.4626		1,330.54
				Total :	**1,330.54**
85044	4/12/2022	003073 EWING IRRIGATION PRODUCTS INC	LIBRARY IRRIGATION REPAIRS		
			LIBRARY IRRIGATION REPAIRS		
			001.6000.4206		28.86
			POLICE STATION IRRIGATION		
			POLICE STATION IRRIGATION		
			001.2000.4070		31.51
				Total :	**60.37**

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85045	4/12/2022	003535 WEST COAST ARBORISTS, INC.	LMD 31-TREE TRIMMING		
			LMD 31-TREE TRIMMING		
			012.8500.4585		1,960.00
			TREE MAINTENANCE-MAR		
			TREE MAINTENANCE-MAR		
			004.8310.4680		6,179.00
				Total :	**8,139.00**
85046	4/12/2022	003689 TPX COMMUNICATIONS	CITY HALL/CORP YARD PHONES-APR		
			CITY HALL-APR		
			042.9510.4060		250.04
			CORP YARD-APR		
			004.8310.4060		1,387.97
				Total :	**1,638.01**
85047	4/12/2022	003713 SATCOM GLOBAL LTD.	SATTELITE PHONE - APR		
			SATTELITE PHONE - APR		
			001.2000.4061		42.75
			SATTELITE PHONE - APR		
			028.2050.4061		21.38
			SATTELITE PHONE - APR		
			029.2100.4061		21.37
			SATTELITE PHONE - APR		
			042.9510.4061		42.75
				Total :	**128.25**
85048	4/12/2022	003836 CALIFORNIA BUILDING	BSAR 01/2022-03/2022		
			BSAR 01/2022-03/2022		
			001.4500.4543		1,691.00
			BSAR 01/2022-03/2022		
			051.1480		-169.10
				Total :	**1,521.90**
85049	4/12/2022	004920 TKE ENGINEERING	HOUSING AUTHORITY JAN-FEB		
			HOUSING AUTHORITY JAN-FEB		
			070.7000.4611		1,110.00
				Total :	**1,110.00**
85050	4/12/2022	004920 TKE ENGINEERING	SWK 21-001 ART3 PM NON PART-MAR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85050	4/12/2022	004920 TKE ENGINEERING	(Continued)		
			SWK 21-001 ART3 PM NON PART-MAR		
			005.8320.6545		632.50
			SWK 21-001 GCF PM NON PART-MAR		
			SWK 21-001 GCF PM NON PART-MAR		
			023.3890.6545		517.50
				Total :	**1,150.00**
85051	4/12/2022	004920 TKE ENGINEERING	351-21-049 SO CA GAS PERMITS/INSP		
			351-21-049 SO CA GAS PERMITS/INSP		
			001.3200.4551		154.50
				Total :	**154.50**
85052	4/12/2022	004945 ABOVE ALL NAMES CONSTRUCTION	STR20003 WARD & TIPP CON SBCO-MAR		
			STR20003 WARD & TIPP CON SBCO-MAR		
			027.8490.6550		18,107.00
				Total :	**18,107.00**
85053	4/12/2022	004945 ABOVE ALL NAMES CONSTRUCTION	STR20003; TIPPECANOE & 4TH ST CURB & GRI		
			STR20003: TIPPECANOE & 4TH ST CURB &		
			027.8490.6550		2,350.00
				Total :	**2,350.00**
85054	4/12/2022	005554 IMPERIAL SPRINKLER SUPPLY	TRAILS: WEED CONTROL		
			TRAILS: WEED CONTROL		
			001.6100.4206		190.17
			TRAILS: WEED CONTROL		
			015.8530.4206		190.17
			ROW & TRAILS: HERBICIDE		
			ROW & TRAILS: HERBICIDE		
			001.6100.4206		325.66
			ROW & TRAILS: HERBICIDE		
			015.8530.4206		325.66
			ROW & TRAILS: HERBICIDE		
			004.8310.4206		651.28
				Total :	**1,682.94**
85055	4/12/2022	005771 AMAZON CAPITAL SERVICES	METAL MOBILE FILE CABINET		
			METAL MOBILE FILE CABINET		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85055	4/12/2022	005771 AMAZON CAPITAL SERVICES	(Continued)	
			001.1200.4200	140.06
			Total :	**140.06**
85056	4/12/2022	005933 COMPASS CONSULTING ENTERPRISES	SDR 17-001 ENV GCF JAN-MAR	
			SDR 17-001 ENV GCF JAN-MAR	
			023.3890.4582	1,100.00
			Total :	**1,100.00**
85057	4/12/2022	006096 THE SEABIRD RESORT	CRRA ROOM CHARGE: FLOREZ	
			CRRA ROOM CHARGE: FLOREZ	
			001.4200.4320	1,099.96
			CRRA ROOM CHARGE: MORGAN	
			CRRA ROOM CHARGE: MORGAN	
			001.4200.4320	1,099.96
			Total :	**2,199.92**
1002086296	4/12/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	REPLACEMENT BENEFIT CONTRIBUTION-2022	
			REPLACEMENT BENEFIT CONTRIBUTION-2022	
			001.1450.3560	3,741.48
			Total :	**3,741.48**
42	**Vouchers for bank code :**	wfb	**Bank total :**	**392,790.82**
42	**Vouchers in this report**		**Total vouchers :**	**392,790.82**

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85058	4/19/2022	000075 THE COUNSELING TEAM INT'L	EMPLOYEE SUPPORT SVS: MAR		
			EMPLOYEE SUPPORT SVS: MAR		
			001.1600.4537		150.00
				Total :	**150.00**
85059	4/19/2022	000085 EAST VALLEY WATER DISTRICT	BRG04004A NON -PART CON DIF-REG		
			BRG04004A NON -PART CON DIF-REG		
			007.8330.6813		56,500.32
				Total :	**56,500.32**
85060	4/19/2022	000085 EAST VALLEY WATER DISTRICT	ATHLETIC CTR-MAR		
			ATHLETIC CTR-MAR		
			001.6000.4030		240.83
			COMMUNITY PARK-MAR		
			COMMUNITY PARK-MAR		
			001.6000.4030		4,557.21
			LMD 34-MAR		
			LMD 34-MAR		
			012.8500.4030		95.32
			CUNNINGHAM PARK-MAR		
			CUNNINGHAM PARK-MAR		
			016.8540.4030		1,471.07
			COMM. CTR-MAR		
			COMM. CTR-MAR		
			001.6000.4030		52.70
			LMD 30-MAR		
			LMD 30-MAR		
			012.8500.4030		229.05
			LMD 10-MAR		
			LMD 10-MAR		
			012.8500.4030		1,220.14
			OAK CREEK PARK-MAR		
			OAK CREEK PARK-MAR		
			016.8540.4030		1,261.57
			LMD 10-MAR		
			LMD 10-MAR		
			012.8500.4030		587.07

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85060	4/19/2022	000085 EAST VALLEY WATER DISTRICT	(Continued)	
			LIBRARY / ELC-MAR	
			LIBRARY / ELC-MAR	
			001.6000.4030	70.27
			CORP YARD-MAR	
			CORP YARD-MAR	
			004.8310.4030	70.27
			CORP YARD-MAR	
			CORP YARD-MAR	
			004.8310.4030	131.48
			CORP YARD-MAR	
			CORP YARD-MAR	
			004.8310.4030	605.58
			COMM. CTR - IRRIGATION-MAR	
			COMM. CTR - IRRIGATION-MAR	
			001.6000.4030	945.57
			LIBRARY / ELC-MAR	
			LIBRARY / ELC-MAR	
			001.6000.4030	419.42
			YMCA COMMUNITY PARK-MAR	
			YMCA COMMUNITY PARK-MAR	
			001.6000.4030	201.24
			LIBRARY / ELC-MAR	
			LIBRARY / ELC-MAR	
			001.6000.4030	213.48
			ATHLETIC CTR-MAR	
			ATHLETIC CTR-MAR	
			001.6000.4030	35.14
			COMMUNITY PARK-MAR	
			COMMUNITY PARK-MAR	
			001.6000.4030	52.70
				Total : **12,460.11**
85061	4/19/2022	000085 EAST VALLEY WATER DISTRICT	LMD 36-MAR	
			LMD 36-MAR	
			012.8500.4030	272.12
				Total : **272.12**

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85062	4/19/2022	000090 FEDEX	CUP16006 - OVERNIGHT MAIL-PROJECT CLOSED		
			CUP16006 - OVERNIGHT MAIL-PROJECT CLOSED		
			001.4100.4210		44.20
			OVERNIGHT MAIL		
			001.4100.4210		91.83
			CUP21007 - OVERNIGHT MAIL		
			CUP21007 - OVERNIGHT MAIL		
			001.4100.4210		59.83
			OVERNIGHT MAIL		
			001.1600.4210		90.92
				Total :	**286.78**
85063	4/19/2022	000127 K & L HARDWARE	PARK MAINTENANCE-TRASH BAGS		
			PARK MAINTENANCE-TRASH BAGS		
			001.6000.4206		17.23
				Total :	**17.23**
85064	4/19/2022	000165 AT&T	WHITE PAGES - FEB		
			WHITE PAGES - FEB		
			042.9510.4060		23.51
			WHITE PAGES -MAR		
			WHITE PAGES -MAR		
			042.9510.4060		23.51
				Total :	**47.02**
85065	4/19/2022	000192 SAM'S CLUB/SYNCHRONY BANK	HIT SUPPLIES		
			HIT SUPPLIES		
			001.6020.4200		23.23
			HIT SUPPLIES		
			HIT SUPPLIES		
			001.6020.4336		95.73
				Total :	**118.96**
85066	4/19/2022	000203 SOUTHERN CALIFORNIA EDISON	STATION #1-MAR		
			STATION #1-MAR		
			028.2050.4010		219.06
			STATION #1-MAR		
			029.2100.4010		219.05

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85066	4/19/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)	
			SEELEY PARK-MAR	
			SEELEY PARK-MAR	
			016.8540.4010	19.35
			CUNNINGHAM PARK-MAR	
			CUNNINGHAM PARK-MAR	
			016.8540.4010	18.57
			CANYON OAK-MAR	
			CANYON OAK-MAR	
			016.8540.4010	22.56
			HIGHLAND COMMUNITY PARK-MAR	
			HIGHLAND COMMUNITY PARK-MAR	
			001.6000.4010	1,524.72
			LMD'S-MAR	
			LMD 09-MAR	
			012.8500.4010	18.77
			LMD 30-MAR	
			012.8500.4010	18.77
			LMD 20-MAR	
			012.8500.4010	18.57
			LMD 08-MAR	
			012.8500.4010	18.57
			LMD 29-MAR	
			012.8500.4010	18.57
			LMD 47-MAR	
			012.8500.4010	18.57
			LMD 17-MAR	
			012.8500.4010	63.60
			LMD 44-MAR	
			012.8500.4010	18.77
			LMD 36-MAR	
			012.8500.4010	18.57
			LMD 37-MAR	
			012.8500.4010	18.57
			LMD 34-MAR	
			012.8500.4010	18.57
			LMD 02-MAR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85066	4/19/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)	
			012.8500.4010 LDM 11-MAR	18.57
			012.8500.4010 LMD 05-MAR	18.57
			012.8500.4010 LMD 06-MAR	18.20
			012.8500.4010 LMD 07-MAR	17.63
			012.8500.4010 LMD 04-MAR	17.99
			012.8500.4010 LMD 02-MAR	18.57
			012.8500.4010 LMD 15-MAR	36.93
			012.8500.4010 LMD 00-MAR	37.14
			012.8500.4010 LMD 21-MAR	18.57
			012.8500.4010 LMD 31-MAR	18.57
			012.8500.4010 LMD 01-MAR	18.57
			012.8500.4010 LMD 35-MAR	18.57
			012.8500.4010 LMD 02-MAR	18.36
			012.8500.4010 LMD 20-MAR	18.57
			012.8500.4010 LMD 16-MAR	18.57
			012.8500.4010 LMD 03-MAR	18.20
			012.8500.4010 LMD 22-MAR	18.20
			012.8500.4010 LMD 10-MAR	18.57

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85066	4/19/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)		
			012.8500.4010		
			LMD 36-MAR		62.71
			012.8500.4010		-39.24
				Total :	**2,665.03**
85067	4/19/2022	000203 SOUTHERN CALIFORNIA EDISON	LS#3-APR		
			LS#3-APR		
			013.8510.4011		53.56
				Total :	**53.56**
85068	4/19/2022	000203 SOUTHERN CALIFORNIA EDISON	LS3 METER-APR		
			LS3 METER-APR		
			013.8510.4011		28.34
				Total :	**28.34**
85069	4/19/2022	000237 WILLDAN ASSOCIATES	BUILDING & SAFETY PLAN CHECK-MAR		
			BUILDING & SAFETY PLAN CHECK-MAR		
			001.4500.4540		2,775.00
			BUILDING & SAFETY INSPECTIONS-MAR		
			BUILDING & SAFETY INSPECTIONS-MAR		
			001.4500.4540		29,155.00
			PERMIT TECHNICIAN SERVICES-MAR		
			PERMIT TECHNICIAN SVC-MAR		
			001.4500.4540		6,045.00
			CODE ENFORCEMENT SERVICE-MAR		
			CODE ENFORCEMENT SERVICE-MAR		
			001.4600.4538		7,865.00
				Total :	**45,840.00**
85070	4/19/2022	000424 SAN BERNARDINO COUNTY FIRE	HAZARDOUS WASTE FEE - 4/22-6/22		
			HAZARDOUS WASTE FEE - 4/22-6/22		
			001.4200.4596		12,218.89
				Total :	**12,218.89**
85071	4/19/2022	000461 JON'S FLAGS & POLES	FLAGS: US, CA, POW, COH		
			FLAGS: US, CA, POW, COH		
			001.0500		1,467.02

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85071	4/19/2022	000461 000461 JON'S FLAGS & POLES	(Continued)	Total :	1,467.02
85072	4/19/2022	000744 D&T AUTO REPAIR	TRANSMISSION ISSUE - VEH#116		
			TRANSMISSION ISSUE - VEH#116		
			001.6010.4240		286.16
				Total :	286.16
85073	4/19/2022	000774 ARROWHEAD CREDIT UNION-DEPT 91	CIRA MTG		
			CIRA MTG PARKING		
			041.9500.4320		42.00
			PD: EXTERIOR PUBLIC ACCESS EMERGENCY PHO		
			PD: EXTERIOR PUBLIC ACCESS EMERGENCY		
			001.2000.4075		72.94
			CIRA MTG		
			CIRA MTG SHUTTLE		
			041.9500.4320		65.10
			DRI CRASH PLAN-MAR		
			DRI CRASH PLAN-MAR		
			042.9510.4208		19.98
			ZOOM MEETINGS-MAR		
			ZOOM MEETINGS-MAR		
			042.9510.4310		110.00
				Total :	310.02
85074	4/19/2022	001035 DEPARTMENT OF JUSTICE	FINGERPRINT APPS - MAR		
			FINGERPRINT APPS - MAR		
			001.1700.4236		32.00
				Total :	32.00
85075	4/19/2022	001414 RICHARDS, WATSON & GERSHON	GENERAL-FEB		
			GENERAL-FEB		
			001.1450.4520		7,677.51
			STR18001 R/W IVDA-FEB		
			STR18001 R/W IVDA-FEB		
			027.8490.6550		362.63
			STR18001 R/W RDA07-FEB		
			STR18001 R/W RDA07-FEB		
			010.3830.6550		362.74
			STR18001 R/W SMBMI-FEB		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85075	4/19/2022	001414 RICHARDS, WATSON & GERSHON	(Continued)		
			STR18001 R/W SMBMI-FEB		
			027.8490.6550		362.63
			CUP21001-FEB		
			CUP21001-FEB		
			001.1450.4520		833.00
			CODE ENFORCEMENT-FEB		
			CODE ENFORCEMENT-FEB		
			001.4600.4520		170.00
			PERSONNEL & LABOR RELATIONS-FEB		
			PERSONNEL & LABOR RELATIONS-FEB		
			001.1450.4520		345.00
			COVID19 DECLARATION OF EMERGENCY-FEB		
			COVID19 DECLARATION OF EMERGENCY-FEB		
			030.8495.4520		96.01
			CODE ENFORCEMENT-FEB		
			CODE ENFORCEMENT-FEB		
			001.4600.4520		2,898.50
			CODE ENFORCEMENTCASE #3196-FEB		
			CODE ENFORCEMENTCASE #3196-FEB		
			001.4600.4520		2,969.28
				Total :	**16,077.30**
85076	4/19/2022	004879 DIV OF THE STATE ARCHITECT	AB 1379		
			AB1379 1/22-3/22		
			051.1493		356.80
				Total :	**356.80**
85077	4/19/2022	004923 BRIAN'S LIVE BEE REMOVAL SVC	BOULDER AVE BRIDGE: BEE HIVE RELOCATION		
			BOULDER AVE BRIDGE: BEE HIVE RELOCATION		
			004.8310.4570		275.00
				Total :	**275.00**
85078	4/19/2022	005164 MIKE ROQUET CONSTRUCTION INC.	ASHPALT REPAIR 5TH & PALM		
			ASHPALT REPAIR 5TH & PALM		
			004.8310.4570		7,513.00
				Total :	**7,513.00**
85079	4/19/2022	005553 CLARK PEST CONTROL OF STOCKTON	PEST CONTROL SERVICES-POLICE DEPT		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85079	4/19/2022	005553 CLARK PEST CONTROL OF STOCKTON	(Continued)		
			PEST CONTROL SERVICES-POLICE DEPT		
			001.2000.4589		97.00
			PEST CONTROL SERVICES-POLICE DEPT		
			PEST CONTROL SERVICES-POLICE DEPT		
			001.2000.4589		97.00
			PEST CONTROL SERVICES-YMCA		
			PEST CONTROL SERVICES-YMCA		
			001.6000.4589		91.00
			PEST CONTROL SERVICES-CITY HALL		
			PEST CONTROL SERVICES-CITY HALL		
			042.9510.4589		62.00
				Total :	**347.00**
85080	4/19/2022	005869 DOPP PROPERTY SERVICES	SECURE PROPERTY-7097 LAWSON CT		
			SECURE PROPERTY-7097 LAWSON CT		
			001.4600.4557		215.00
			SECURE PROPERTY-7500 LYNWOOD AVE		
			SECURE PROPERTY-7500 LYNWOOD AVE		
			001.4600.4557		1,285.00
			SECURE PROPERTY-25222 3RD ST		
			SECURE PROPERTY-25222 3RD ST		
			001.4600.4557		210.00
			SECURE PROPERTY-25875 VINE ST		
			SECURE PROPERTY-25875 VINE ST		
			001.4600.4557		1,660.00
				Total :	**3,370.00**
85081	4/19/2022	005892 TRAFFICALM SYSTEMS	BOULDER STREET SIGNS: GREENSTOP & BASE L		
			BOULDER STREET SIGNS: GREENSTOP & BASE		
			007.8330.6813		6,820.58
				Total :	**6,820.58**
85082	4/19/2022	006085 ROBBINS & HOLDAWAY	HOUSING AUTHORITY-MAR		
			HOUSING AUTHORITY-MAR		
			070.7000.4520		4,890.00
				Total :	**4,890.00**
85083	4/19/2022	006099 CHARTER COMMUNICATIONS	STATION #1 TELE/INT-APR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85083	4/19/2022	006099 CHARTER COMMUNICATIONS	(Continued)	
			STATION #1 TELE/INT-APR	
			028.2050.4065	183.25
			STATION #1 TELE/INT-APR	
			029.2100.4065	183.24
			STATION #3 TELE/INT-APR	
			STATION #3 TELE/INT-APR	
			028.2050.4065	221.74
			STATION #3 TELE/INT-APR	
			029.2100.4065	221.73
			STATION #2 TELE/INT-APR	
			STATION #2 TELE/INT-APR	
			028.2050.4065	106.80
			STATION #2 TELE/INT-APR	
			029.2100.4065	106.79
			Total :	**1,023.55**

26 Vouchers for bank code : wfb **Bank total : 173,426.79**

26 Vouchers in this report **Total vouchers : 173,426.79**

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
671	4/22/2022	000003 ICMA RETIREMENT TRUST-457	ICMA DEFERRED COMP 457: PAYMENT	
			ICMA DEFERRED COMP 457: Payment 012.1170	12.50
			ICMA DEFERRED COMP 457: Payment 016.1170	12.50
			ICMA DEFERRED COMP 457: Payment 023.1170	4.99
			ICMA DEFERRED COMP 457: Payment 041.1170	327.70
			ICMA DEFERRED COMP 457: Payment 070.1170	293.82
			ICMA DEFERRED COMP 457: Payment 001.1170	9,015.35
			ICMA DEFERRED COMP 457: Payment 004.1170	991.17
			ICMA DEFERRED COMP 457: Payment 010.1170	819.23
			Total :	**11,477.26**
672	4/22/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	EPMC: PAYMENT	
			EPMC: Payment 016.1145	2.37
			EPMC: Payment 023.1145	6.62
			EPMC: Payment 024.1145	0.57
			EPMC: Payment 041.1145	31.59
			EPMC: Payment 042.1145	11.55
			EPMC: Payment 070.1145	54.70
			PERS: Payment 001.1145	13,416.63
			PERS: Payment 004.1145	2,828.44

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
672	4/22/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	(Continued)	
			PERS: Payment	
			006.1145	682.28
			PERS: Payment	
			010.1145	965.89
			PERS: Payment	
			012.1145	177.17
			PERS: Payment	
			016.1145	177.16
			PERS: Payment	
			023.1145	116.16
			PERS: Payment	
			024.1145	19.50
			PERS: Payment	
			041.1145	451.29
			PERS: Payment	
			042.1145	767.70
			PERS: Payment	
			070.1145	781.54
			PERS SURVIVOR: Payment	
			001.1145	24.22
			PERS SURVIVOR: Payment	
			004.1145	4.62
			PERS SURVIVOR: Payment	
			006.1145	1.31
			PERS SURVIVOR: Payment	
			010.1145	1.08
			PERS SURVIVOR: Payment	
			012.1145	0.58
			PERS SURVIVOR: Payment	
			016.1145	0.54
			PERS SURVIVOR: Payment	
			023.1145	0.28
			PERS SURVIVOR: Payment	
			024.1145	0.04
			PERS SURVIVOR: Payment	
			041.1145	0.31

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
672	4/22/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	(Continued)	
			PERS SURVIVOR: Payment	
			042.1145	1.65
			PERS SURVIVOR: Payment	
			070.1145	0.71
			EPMC: Payment	
			001.1145	531.01
			EPMC: Payment	
			004.1145	122.47
			EPMC: Payment	
			006.1145	19.82
			EPMC: Payment	
			010.1145	42.04
			EPMC: Payment	
			012.1145	2.37
			Total :	21,244.21
673	4/22/2022	000119 INTERNAL REVENUE SERVICE	FEDERAL TAXES: PAYMENT	
			FEDERAL TAXES: Payment	
			042.1120	497.92
			FEDERAL TAXES: Payment	
			070.1120	688.26
			SOCIAL SECURITY: Payment	
			001.1140	603.38
			SOCIAL SECURITY: Payment	
			070.1140	35.84
			MEDICARE: Payment	
			001.1140	2,908.42
			MEDICARE: Payment	
			004.1140	575.44
			MEDICARE: Payment	
			006.1140	143.90
			MEDICARE: Payment	
			010.1140	178.76
			MEDICARE: Payment	
			012.1140	46.02
			MEDICARE: Payment	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
673	4/22/2022	000119 INTERNAL REVENUE SERVICE	(Continued)	
			016.1140 MEDICARE: Payment	46.00
			023.1140 MEDICARE: Payment	24.48
			024.1140 MEDICARE: Payment	4.56
			041.1140 MEDICARE: Payment	88.10
			042.1140 MEDICARE: Payment	178.50
			070.1140 FEDERAL TAXES: Payment	146.62
			001.1120 FEDERAL TAXES: Payment	11,364.58
			004.1120 FEDERAL TAXES: Payment	2,339.57
			006.1120 FEDERAL TAXES: Payment	584.03
			010.1120 FEDERAL TAXES: Payment	849.75
			012.1120 FEDERAL TAXES: Payment	102.74
			016.1120 FEDERAL TAXES: Payment	102.72
			023.1120 FEDERAL TAXES: Payment	73.02
			024.1120 FEDERAL TAXES: Payment	14.80
			041.1120	512.03
			Total :	**22,109.44**
674	4/22/2022	000001 CALIF STATE EMPLOYMENT	STATE TAXES: PAYMENT	
			STATE TAXES: Payment 001.1130	4,279.94
			STATE TAXES: Payment 004.1130	908.10

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
674	4/22/2022	000001 CALIF STATE EMPLOYMENT	(Continued)		
			STATE TAXES: Payment 006.1130		221.02
			STATE TAXES: Payment 010.1130		321.97
			STATE TAXES: Payment 012.1130		40.94
			STATE TAXES: Payment 016.1130		40.92
			STATE TAXES: Payment 023.1130		20.20
			STATE TAXES: Payment 024.1130		5.48
			STATE TAXES: Payment 041.1130		209.72
			STATE TAXES: Payment 042.1130		179.53
			STATE TAXES: Payment 070.1130		266.45
				Total :	**6,494.27**
85084	4/22/2022	000433 ARROWHEAD UNITED WAY	ARROWHEAD UNITED WAY: PAYMENT		
			ARROWHEAD UNITED WAY: Payment 001.1180		11.27
			ARROWHEAD UNITED WAY: Payment 004.1180		0.76
			ARROWHEAD UNITED WAY: Payment 041.1180		2.26
			ARROWHEAD UNITED WAY: Payment 070.1180		0.71
				Total :	**15.00**
85085	4/22/2022	003804 AFLAC WWHQ	AFLAC ACCIDENT INSURANCE: PAYMENT		
			AFLAC SPECIFIED HEALTH INS: Payment 001.1181		2.98
			AFLAC SPECIFIED HEALTH INS: Payment 012.1181		1.48
			AFLAC SPECIFIED HEALTH INS: Payment		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85085	4/22/2022	003804 AFLAC WWHQ	(Continued)	
			016.1181 AFLAC ACCIDENT INSURANCE: Payment	1.48
			001.1181 AFLAC ACCIDENT INSURANCE: Payment	108.78
			004.1181 AFLAC ACCIDENT INSURANCE: Payment	13.98
			012.1181 AFLAC ACCIDENT INSURANCE: Payment	3.57
			016.1181 AFLAC ACCIDENT INSURANCE: Payment	3.57
			023.1181 AFLAC ACCIDENT INSURANCE: Payment	5.80
			024.1181 AFLAC CANCER INSURANCE: Payment	0.26
			001.1181 AFLAC DISABILITY INSURANCE: Payment	18.63
			001.1181 AFLAC DISABILITY INSURANCE: Payment	278.26
			004.1181 AFLAC DISABILITY INSURANCE: Payment	24.69
			012.1181 AFLAC DISABILITY INSURANCE: Payment	6.31
			016.1181 AFLAC DISABILITY INSURANCE: Payment	6.31
			024.1181 AFLAC HOSPITAL INSURANCE: Payment	0.51
			001.1181 AFLAC HOSPITAL INSURANCE: Payment	143.66
			012.1181 AFLAC HOSPITAL INSURANCE: Payment	6.71
			016.1181 AFLAC HOSPITAL INSURANCE: Payment	6.69
			023.1181 AFLAC DENTAL: Payment	12.32
			001.1181 AFLAC DENTAL: Payment	27.89

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85085	4/22/2022	003804 AFLAC WWHQ	(Continued)	
			004.1181 AFLAC DENTAL: Payment	0.56
			041.1181 AFLAC DENTAL: Payment	1.67
			070.1181	0.54
			Total :	**676.65**

6 Vouchers for bank code : wfb **Bank total : 62,016.83**

6 Vouchers in this report **Total vouchers : 62,016.83**

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85086	4/26/2022	000085 EAST VALLEY WATER DISTRICT	LMD 17 - B-APR LMD 17 - B-APR 012.8500.4030 LMD 11-APR LMD 11-APR 012.8500.4030 LMD 55-APR LMD 55-APR 012.8500.4030 LMD 17 - D-APR LMD 17 - D-APR 012.8500.4030 LMD 25-APR LMD 25-APR 012.8500.4030 LMD 17 - C-APR LMD 17 - C-APR 012.8500.4030 LMD 76-APR LMD 76-APR 012.8500.4030 LMD 17 - A-APR LMD 17 - A-APR 012.8500.4030 SEELEY PARK -APR SEELEY PARK -APR 016.8540.4030 LMD 43-APR LMD 43-APR 012.8500.4030 LMD 47-APR LMD 47-APR 012.8500.4030 LMD 16-APR LMD 16-APR 012.8500.4030	300.11 282.61 373.96 49.60 194.38 165.82 73.18 90.71 155.61 107.35 128.63 48.87

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85086	4/26/2022	000085 000085 EAST VALLEY WATER DISTRICT	(Continued)	Total :	1,970.83
85087	4/26/2022	000113 VULCAN MATERIALS CO	ASHPHALT MATERIAL ASHPHALT MATERIAL 004.8310.4206 ASHPHALT MATERIAL ASHPHALT MATERIAL 004.8310.4206		218.19 99.67
				Total :	317.86
85088	4/26/2022	000127 K & L HARDWARE	COMM PARK: LIGHTING MAINT COMM PARK: LIGHTING MAINT 001.6000.4206 MAINTENANCE SUPPLIES FS#1 MAINTENANCE SUPPLIES FS#1 028.2050.4070 MAINTENANCE SUPPLIES FS#1 029.2100.4070 MAINTENANCE SUPPLIES FS#1 MAINTENANCE SUPPLIES FS#1 028.2050.4070 MAINTENANCE SUPPLIES FS#1 029.2100.4070 LIBRARY: LIGHTING MAINT LIBRARY: LIGHTING MAINT 001.6000.4206 BUILDING MAINT- CITY HALL BUILDING MAINT- CITY HALL 042.9510.4070		7.95 28.00 28.00 37.45 37.44 15.05 7.53
				Total :	161.42
85089	4/26/2022	000143 COMMUNITY WORKS DESIGN GROUP	CUP 21-001/DRA 21-001 PLAN CHECK-JAN CUP 21-001/DRA 21-001 PLAN CHECK-JAN 001.4100.4547 DRA 21-007 PLAN CHECK JAN DRA 21-007 PLAN CHECK JAN 001.4100.4547 GENERAL PLAN CHECK JAN		310.00 1,240.00

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85089	4/26/2022	000143 COMMUNITY WORKS DESIGN GROUP	(Continued)		
			GENERAL PLAN CHECK JAN		
			001.4100.4547		310.00
			DRA 22-002 PLAN CHECK REIMBURSABLES JAN		
			DRA 22-002 PLAN CHECK REIMBURSABLES JAN		
			001.4100.4547		320.08
				Total :	**2,180.08**
85090	4/26/2022	000145 MATICH CORPORATION	STR20003 PPE#3 COSB CON		
			STR20003 PPE#3 COSB CON		
			027.8490.6550		351.22
			STR20003 PPE#3 RET CON COSB		
			STR20003 PPE#3 RET CON COSB		
			027.1350		-17.56
			STR20003 PPE#3 CON EVWD		
			STR20003 PPE#3 CON EVWD		
			027.8490.6550		5,500.00
			STR20003 PPE#3 RET CON EVWD		
			STR20003 PPE#3 RET CON EVWD		
			027.1350		-275.00
			STR20003 PPE#3 MSRI CON		
			STR20003 PPE#3 MSRI CON		
			017.8350.6550		52,522.53
			STR20003 PPE#3 RET CON MSRI		
			STR20003 PPE#3 RET CON MSRI		
			017.1350		-2,626.13
			STR20003 PPE#3 SBCO CON		
			STR20003 PPE#3 SBCO CON		
			027.8490.6550		60,350.67
			STR20003 PPE#3 RET CON SBCO		
			STR20003 PPE#3 RET CON SBCO		
			027.1350		-3,017.53
				Total :	**112,788.20**
85091	4/26/2022	000168 LETICIA NAVA-CRUZ, PETTY CASH	PETTY CASH - APR		
			PETTY CASH - APR		
			001.0020		36.41

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85091	4/26/2022	000168 000168 LETICIA NAVA-CRUZ, PETTY CASH (Continued)		Total :	36.41
85092	4/26/2022	000203 SOUTHERN CALIFORNIA EDISON	SIGNALS-APR SIGNALS-APR 004.8310.4580		73.04
				Total :	73.04
85093	4/26/2022	000207 KONICA MINOLTA	COPIER LEASE-APR COPIER LEASE-APR 042.9510.4205		1,054.54
			COPIER LEASE-APR 001.2000.4205		625.29
				Total :	1,679.83
85094	4/26/2022	000233 WAXIE SANITARY SUPPLY	FS#2: JANITORIAL SUPPLIES FS#2: JANITORIAL SUPPLIES 029.2100.4055		138.09
			FS#2: JANITORIAL SUPPLIES 028.2050.4055		138.08
			FS#2: JANITORIAL SUPPLIES FS#2: JANITORIAL SUPPLIES 029.2100.4055		19.39
			FS#2: JANITORIAL SUPPLIES 028.2050.4055		19.40
			ALL PARKS: DOGGIE WASTE BAGS ALL PARKS: DOGGIE WASTE BAGS 001.6000.4055		244.44
				Total :	559.40
85095	4/26/2022	000237 WILLDAN ASSOCIATES	STR20001 CE MSRI-MAR STR20001 CE MSRI-MAR 017.8350.6550		34,110.00
			STR20003 CE MSRI MAR STR20003 CE MSRI MAR 017.8350.6550		12,547.73
			STR20003 CE SBCO MAR STR20003 CE SBCO MAR 027.8490.6550		16,315.53
			STR20003 CE COSB MAR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85095	4/26/2022	000237 WILLDAN ASSOCIATES	(Continued)		
			STR20003 CE COSB MAR		
			027.8490.6550		75.24
				Total :	63,048.50
85096	4/26/2022	000324 DIB'S SAFE & LOCK SERVICE	COMM PARK: RESTROOM LOCK		
			COMM PARK: RESTROOM LOCK		
			001.6000.4206		73.09
				Total :	73.09
85097	4/26/2022	000598 PR PRINTING	COH WINDOW ENVELOPES, 30% RECYCLED		
			COH WINDOW ENVELOPES 30% RECYCLED		
			042.9510.4200		876.96
				Total :	876.96
85098	4/26/2022	000744 D&T AUTO REPAIR	VEH #116 MAINT		
			VEH #116 MAINT		
			001.6010.4240		91.32
				Total :	91.32
85099	4/26/2022	001072 AUTO ZONE	VEH# 129 LIGHTS - MAINTENANCE SUPPLIES		
			VEH# 129 LIGHTS - MAINTENANCE SUPPLIES		
			004.8310.4240		31.95
				Total :	31.95
85100	4/26/2022	001439 OFFICE SOLUTIONS	FS#2: OFFICE & STATION SUPPLIES		
			FS#2: OFFICE & STATION SUPPLIES		
			029.2100.4200		442.95
			FS#2: OFFICE & STATION SUPPLIES		
			028.2050.4200		442.94
			FS#2: OFFICE & STATION SUPPLIES		
			FS#2: OFFICE & STATION SUPPLIES		
			029.2100.4200		129.75
			FS#2: OFFICE & STATION SUPPLIES		
			028.2050.4200		129.74
				Total :	1,145.38
85101	4/26/2022	001527 STERICYLCE INC.	SHREDDING SERVICES-FEB		
			SHREDDING SERVICES-FEB		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85101	4/26/2022	001527 STERICYLCE INC.	(Continued)		
			001.1200.4626		93.81
			SHREDDING SERVICES-MAR		
			SHREDDING SERVICES-MAR		
			001.1200.4626		93.81
			SHREDDING SERVICES-MAR		
			SHREDDING SERVICES-MAR		
			001.1200.4626		93.81
				Total :	**281.43**
85102	4/26/2022	001679 MC CRAY'S ENTERPRISES	E542: INTAKE STRAINER FOR ENGINE PUMP TE		
			E542: INTAKE STRAINER FOR ENGINE PUMP		
			029.2100.4240		61.54
			E542: INTAKE STRAINER FOR ENGINE PUMP		
			028.2050.4240		61.54
			ME542: REPAIR REGEN SOLENIOD		
			ME542: REPAIR REGEN SOLENIOD		
			029.2100.4240		800.74
			ME542: REPAIR REGEN SOLENIOD		
			028.2050.4240		800.73
				Total :	**1,724.55**
85103	4/26/2022	001954 PACIFIC PRODUCTS & SERVICE LLC	SIGN REPAIR MATERIALS		
			SIGN REPAIR MATERIALS		
			004.8310.4206		3,080.57
				Total :	**3,080.57**
85104	4/26/2022	002190 ENGINEERING RESOURCES OF SO CA	STR20003 DE MSRI MAR		
			STR20003 DE MSRI MAR		
			017.8350.6550		259.12
			STR20003 DE SB CO MAR		
			STR20003 DE SB CO MAR		
			027.8490.6550		853.38
				Total :	**1,112.50**
85105	4/26/2022	002664 INLAND LIGHTING SUPPLIES, INC.	LIGHTING SUPPLIES-ST#3		
			LIGHTING SUPPLIES-ST#3		
			028.2050.4070		51.31

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85105	4/26/2022	002664 INLAND LIGHTING SUPPLIES, INC.	(Continued)	
			LIGHTING SUPPLIES-ST#3	
			029.2100.4070	51.30
			Total :	**102.61**
85106	4/26/2022	002710 HERNANDEZ, KROONE & ASSOCIATES	STR18001 PE RDA07-MAR	
			STR18001 PE RDA07-MAR	
			010.3830.6550	455.84
			STR18001 PE IVDA-MAR	
			STR18001 PE IVDA-MAR	
			027.8490.6550	456.14
			STR18001 PE SMBMI-MAR	
			STR18001 PE SMBMI-MAR	
			027.8490.6550	455.84
			STR18001 PE EDA-MAR	
			STR18001 PE EDA-MAR	
			030.8495.6550	1,605.70
			STR18001 R/W IVDA-MAR	
			STR18001 R/W IVDA-MAR	
			027.8490.6550	1,261.51
			STR18001 R/W RDA07-MAR	
			STR18001 R/W RDA07-MAR	
			010.3830.6550	1,262.33
			STR18001 R/W SMBMI-MAR	
			STR18001 R/W SMBMI-MAR	
			027.8490.6550	1,261.51
			STR18001 R/W EDA-MAR	
			STR18001 R/W EDA-MAR	
			030.8495.6550	4,443.68
			STR18001 PS&E IVDA-MAR	
			STR18001 PS&E IVDA-MAR	
			027.8490.6550	130.58
			STR18001 PS&E RDA07-MAR	
			STR18001 PS&E RDA07-MAR	
			010.3830.6550	130.67
			STR18001 PS&E SMBMI-MAR	
			STR18001 PS&E SMBMI-MAR	
			027.8490.6550	130.58

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85106	4/26/2022	002710 HERNANDEZ, KROONE & ASSOCIATES	(Continued)		
			STR18001 PS&E EDA-MAR		
			STR18001 PS&E EDA-MAR		
			030.8495.6550		459.97
				Total :	**12,054.35**
85107	4/26/2022	002960 BURRTEC WASTE INDUSTRIES INC	SOLID WASTE PROG-3/19-4/13/22		
			SOLID WASTE PROG-3/19-4/13/22		
			051.1496		1,789,868.70
				Total :	**1,789,868.70**
85108	4/26/2022	003360 DIRECTV	POLICE SATTELITE CABLE-APR		
			POLICE SATTELITE CABLE-APR		
			001.2000.4065		78.00
				Total :	**78.00**
85109	4/26/2022	004193 AECOM USA INC.	BRG07001 DES RDA07-FEB		
			BRG07001 DES RDA07-FEB		
			010.3830.6813		4,623.66
			BRG07001 DES HBP-FEB		
			BRG07001 DES HBP-FEB		
			030.8495.6813		35,687.27
				Total :	**40,310.93**
85110	4/26/2022	004767 MOBILE AIR	ME541: AC REPAIRS		
			ME541: AC REPAIRS		
			029.2100.4240		137.81
			ME541: AC REPAIRS		
			028.2050.4240		137.81
				Total :	**275.62**
85111	4/26/2022	004920 TKE ENGINEERING	ALL WAY STOP WARRANT ANALYSIS:		
			HIGHLAND AVE AT CLOVERHILL DR		
			023.3890.4582		900.00
			OSBURN RD AT FISHER ST		
			023.3890.4582		900.00
			ALL WAY STOP WARRANT ANALYSIS: WEBSTER/S		
			ALL WAY STOP WARRANT ANALYSIS:		
			023.3890.4550		115.00

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85111	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			STR18001 NON PART RDA07 DEC	
			STR18001 NON PART RDA07 DEC	
			010.3830.6550	5,115.00
			ALL WAY STOP WARRANT ANALYSIS: WEBSTER/S	
			ALL WAY STOP WARRANT ANALYSIS:	
			023.3890.4550	785.00
			STR11006 CE NON-PART MSRI DEC	
			STR11006 CE NON-PART MSRI DEC	
			017.8350.6530	1,132.88
			STR11005 CE MSRI DEC	
			STR11005 CE MSRI DEC	
			017.8350.6530	1,132.88
			BRG04004A CE DIF REG -DEC	
			BRG04004A CE DIF REG -DEC	
			007.8330.6813	9,399.36
			BRG04004A CE PNRS DEC	
			BRG04004A CE PNRS DEC	
			030.8495.6813	37,597.45
			STR18001 PM RDA07 OCT-NOV	
			STR18001 PM RDA07 OCT-NOV	
			010.3830.6550	9,185.00
			BRG12001 PM DIF REG - DEC	
			BRG12001 PM DIF REG - DEC	
			007.8330.6813	1,725.00
			BRG04004A CE DIF REG FEB	
			BRG04004A CE DIF REG FEB	
			007.8330.6813	7,458.59
			BRG04004A CE PNRS FEB	
			BRG04004A CE PNRS FEB	
			030.8495.6813	29,834.36
			STR18001 NON PART RDA07 FEB	
			STR18001 NON PART RDA07 FEB	
			010.3830.6550	5,405.00
			SIGNING & STRIPING EXHIBIT: HIGHLAND/CLO	
			SIGNING & STRIPING EXHIBIT:	
			023.3890.4550	30.00
			STOP WARRANT ANALYSIS: ORANGE/14 ST	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85111	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			STOP WARRANT ANALYSIS: ORANGE/14 ST	
			023.3890.4550	1,100.00
			BRG12001 PM DIF REG - FEB	
			BRG12001 PM DIF REG - FEB	
			007.8330.6813	2,530.00
			STR18001 NON PART RDA07 JAN	
			STR18001 NON PART RDA07 JAN	
			010.3830.6550	5,060.00
			SIGNING & STRIPING EXHIBIT: HIGHLAND/CLO	
			SIGNING & STRIPING EXHIBIT:	
			023.3890.4550	1,170.00
			STR11006 CE NON-PART MSRI JAN	
			STR11006 CE NON-PART MSRI JAN	
			017.8350.6530	4,495.82
			STR11005 CE MSRI JAN	
			STR11005 CE MSRI JAN	
			017.8350.6530	981.59
			BRG04004A CE DIF REG JAN	
			BRG04004A CE DIF REG JAN	
			007.8330.6813	8,035.24
			BRG04004A CE PNRS JAN	
			BRG04004A CE PNRS JAN	
			030.8495.6813	32,140.95
			BRG12001 PM DIF REG - JAN	
			BRG12001 PM DIF REG - JAN	
			007.8330.6813	2,185.00
			Total :	**168,414.12**
85113	4/26/2022	004920 TKE ENGINEERING	GENERAL ENGINEERING SERVICES-OCT	
			GENERAL ENGINEERING SERVICES-OCT	
			001.3200.4550	2,585.00
			STR11005 PM IN-LIEU DEV-OCT	
			STR11005 PM IN-LIEU DEV-OCT	
			008.8340.6530	115.00
			STR11006 PM MSRI DEV-OCT	
			STR11006 PM MSRI DEV-OCT	
			008.8340.6530	115.00

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85113	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			SIG21002 PM DIF LOCAL-OCT	
			SIG21002 PM DIF LOCAL-OCT	
			007.8330.6530	165.00
			BRG04004A PM DIF REG-OCT	
			BRG04004A PM DIF REG-OCT	
			007.8330.6813	460.00
			STR15002 NON PART DIF REG-OCT	
			STR15002 NON PART DIF REG-OCT	
			007.8330.6550	915.00
			BRG07001 PM RDA07-OCT	
			BRG07001 PM RDA07-OCT	
			010.3830.6813	5,635.00
			SDR06002 NON PART RDA07-OCT	
			SDR06002 NON PART RDA07-OCT	
			010.3830.6600	402.50
			STR17001 NON PART MSRI-OCT	
			STR17001 NON PART MSRI-OCT	
			017.8350.6550	110.00
			ICH09001 PM IVDA AGMT-OCT	
			ICH09001 PM IVDA AGMT-OCT	
			027.8490.6813	226.60
			STR19002 PM GCF PROJECT COMPLETE-OCT	
			STR19002 PM GCF PROJECT COMPLETE-OCT	
			023.3890.6530	920.00
			SDR17001 PM DIF LOC-OCT	
			SDR17001 PM DIF LOC-OCT	
			007.8330.6600	920.00
			STR20003 PM MSRI-OCT	
			STR20003 PM MSRI-OCT	
			017.8350.6550	1,092.50
			STR07004A PM RDA07-OCT	
			STR07004A PM RDA07-OCT	
			010.3830.6600	575.00
			BRG04004A PM DIF REG-OCT	
			BRG04004A PM DIF REG-OCT	
			007.8330.6813	230.00
			GENERAL ENGINEERING SERVICES-NOV	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85113	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			GENERAL ENGINEERING SERVICES-NOV	
			001.3200.4550	385.00
			STR11005 PM IN-LIEU DEV-NOV	
			STR11005 PM IN-LIEU DEV-NOV	
			008.8340.6530	115.00
			STR11006 PM MSRI DEV-NOV	
			STR11006 PM MSRI DEV-NOV	
			008.8340.6530	57.50
			BRG04004A PM DIF REG-NOV	
			BRG04004A PM DIF REG-NOV	
			007.8330.6813	402.50
			STR15002 NON PART DIF REG-NOV	
			STR15002 NON PART DIF REG-NOV	
			007.8330.6550	690.00
			BRG07001 PM RDA07-NOV	
			BRG07001 PM RDA07-NOV	
			010.3830.6813	4,025.00
			SDR06002 NON PART RDA07-NOV	
			SDR06002 NON PART RDA07-NOV	
			010.3830.6600	747.50
			ICH09001 PM IVDA AGMT-NOV	
			ICH09001 PM IVDA AGMT-NOV	
			027.8490.6813	113.30
			STR20001 PM DIF REG-NOV	
			STR20001 PM DIF REG-NOV	
			007.8330.6550	566.50
			STR19002 PM GCF PROJECT CLOSED-NOV	
			STR19002 PM GCF PROJECT CLOSED-NOV	
			023.3890.6530	747.50
			STR20002 PM DIF LOC-NOV	
			STR20002 PM DIF LOC-NOV	
			007.8330.6550	115.00
			SDR17001 PM DIF LOC-NOV	
			SDR17001 PM DIF LOC-NOV	
			007.8330.6600	517.50
			STR20003 PM MSRI-NOV	
			STR20003 PM MSRI-NOV	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85113	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			017.8350.6550 STR07004A PM RDA07-NOV STR07004A PM RDA07-NOV	1,150.00
			010.3830.6600 GENERAL ENGINEERING SERVICES-FEB GENERAL ENGINEERING SERVICES-FEB	402.50
			001.3200.4550 STR11005 PM MSRI DEV-FEB STR11005 PM MSRI DEV-FEB	800.80
			017.8350.6530 BRG04004A NON PART MSRI-FEB BRG04004A NON PART MSRI-FEB	115.00
			017.8350.6530 STR15002 NON PART DIF REG-FEB STR15002 NON PART DIF REG-FEB	575.00
			007.8330.6550 BRG07001 PM RDA07-FEB BRG07001 PM RDA07-FEB	1,265.00
			010.3830.6813 SDR06002 NON PART RDA07-FEB SDR06002 NON PART RDA07-FEB	4,945.00
			010.3830.6600 STR17001 NON PART MSRI-FEB STR17001 NON PART MSRI-FEB	115.00
			017.8350.6550 ICH09001 PM IVDA AGMT-FEB ICH09001 PM IVDA AGMT-FEB	2,070.00
			027.8490.6813 STR20001 PM DIF REG-FEB STR20001 PM DIF REG-FEB	169.95
			007.8330.6550 STR19002 PM GCF PROJECT COMPLETE-FEB STR19002 PM GCF PROJECT COMPLETE-FEB	172.50
			023.3890.6530 SWK19002 PM GCF-FEB SWK19002 PM GCF-FEB	230.00
			023.3890.6545	345.00

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85113	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			STR20002 PM DIF LOC-FEB	
			STR20002 PM DIF LOC-FEB	
			007.8330.6550	135.33
			STR20002 PM COSB-FEB	
			STR20002 PM COSB-FEB	
			027.8490.6550	94.67
			OLA20001 PM MSRI PROJECT CLOSED-FEB	
			OLA20001 PM MSRI PROJECT CLOSED-FEB	
			023.3890.6530	57.50
			STR20003 PM MSRI-FEB	
			STR20003 PM MSRI-FEB	
			017.8350.6550	632.50
			STR07004A PM RDA07-FEB	
			STR07004A PM RDA07-FEB	
			010.3830.6600	172.50
			GENERAL ENGINEERING SERVICES-MAR	
			GENERAL ENGINEERING SERVICES-MAR	
			001.3200.4550	110.00
			BRG04004A NON PART MSRI-MAR	
			BRG04004A NON PART MSRI-MAR	
			017.8350.6530	690.00
			STR15002 NON PART DIF REG-MAR	
			STR15002 NON PART DIF REG-MAR	
			007.8330.6550	460.00
			BRG07001 PM RDA07-MAR	
			BRG07001 PM RDA07-MAR	
			010.3830.6813	8,510.00
			SDR06002 NON PART RDA07-MAR	
			SDR06002 NON PART RDA07-MAR	
			010.3830.6600	575.00
			STR17001 NON PART MSRI-MAR	
			STR17001 NON PART MSRI-MAR	
			017.8350.6550	1,495.00
			STR19002 PM GCF PROJECT CLOSED-MAR	
			STR19002 PM GCF PROJECT CLOSED-MAR	
			023.3890.6530	632.50
			SWK19002 PM GCF-MAR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85113	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			SWK19002 PM GCF-MAR	
			023.3890.6545	632.50
			STR20002 PM DIF LOC-MAR	
			STR20002 PM DIF LOC-MAR	
			007.8330.6550	169.16
			STR20002 PM COSB-MAR	
			STR20002 PM COSB-MAR	
			027.8490.6550	118.34
			SDR17001 PM DIF LOC-MAR	
			SDR17001 PM DIF LOC-MAR	
			007.8330.6600	115.00
			STR07004A PM RDA07-MAR	
			STR07004A PM RDA07-MAR	
			010.3830.6600	460.00
			STR20003 PM MSRI-MAR	
			STR20003 PM MSRI-MAR	
			017.8350.6550	747.50
			Total :	**51,112.15**
85114	4/26/2022	004920 TKE ENGINEERING	BRG12001 PM DIF REG - OCT	
			BRG12001 PM DIF REG - OCT	
			007.8330.6813	575.00
			BRG12001 PM DIF REG - NOV	
			BRG12001 PM DIF REG - NOV	
			007.8330.6813	345.00
			GENERAL ENGINEERING SERVICES-DEC	
			GENERAL ENGINEERING SERVICES-DEC	
			001.3200.4550	550.00
			STR11005 PM MSRI DEV-DEC	
			STR11005 PM MSRI DEV-DEC	
			017.8350.6530	57.50
			STR11006 PM MSRI DEV-DEC	
			STR11006 PM MSRI DEV-DEC	
			017.8350.6530	57.50
			BRG04004A NON PART MSRI-DEC	
			BRG04004A NON PART MSRI-DEC	
			017.8350.6530	1,207.50

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85114	4/26/2022	004920 TKE ENGINEERING	(Continued)	
			STR15002 NON PART DIF REG-DEC	
			STR15002 NON PART DIF REG-DEC	
			007.8330.6550	1,035.00
			BRG07001 PM RDA07-DEC	
			BRG07001 PM RDA07-DEC	
			010.3830.6813	4,025.00
			SDR06002 NON PART RDA07-DEC	
			SDR06002 NON PART RDA07-DEC	
			010.3830.6600	287.50
			STR20001 PM DIF REG-DEC	
			STR20001 PM DIF REG-DEC	
			007.8330.6550	65.00
			STR19002 PM GCF-DEC	
			STR19002 PM GCF-DEC	
			023.3890.6530	920.00
			SDR17001 PM DIF LOC	
			SDR17001 PM DIF LOC-DEC	
			007.8330.6600	805.00
			STR20003 PM MSRI-DEC	
			STR20003 PM MSRI-DEC	
			017.8350.6550	862.50
			STR07004A PM RDA07	
			STR07004A PM RDA07-DEC	
			010.3830.6600	517.50
			STR19003 PM GCF-DEC	
			STR19003 PM GCF-DEC	
			023.3890.6530	115.00
			GENERAL ENGINEERING SERVICES	
			GENERAL ENGINEERING SERVICES	
			001.3200.4550	275.00
			SIG21002 PM DIF LOCAL-JAN	
			SIG21002 PM DIF LOCAL-JAN	
			007.8330.6530	247.50
			BRG04004A NON PART MSRI-JAN	
			BRG04004A NON PART MSRI-JAN	
			017.8350.6530	1,150.00
			STR15002 NON PART DIF REG	

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85114	4/26/2022	004920 TKE ENGINEERING	(Continued)		
			STR15002 NON PART DIF REG-JAN		
			007.8330.6550		1,265.00
			BRG07001 PM RDA07-JAN		
			BRG07001 PM RDA07-JAN		
			010.3830.6813		5,865.00
			STR17001 NON PART MSRI-JAN		
			STR17001 NON PART MSRI-JAN		
			017.8350.6550		460.00
			STR19002 PM GCF-JAN		
			STR19002 PM GCF-JAN		
			023.3890.6530		805.00
			SWK19002 PM GCF-JAN		
			SWK19002 PM GCF-JAN		
			023.3890.6545		57.50
			STR20002 PM DIF LOC-JAN		
			STR20002 PM DIF LOC-JAN		
			007.8330.6550		33.83
			STR20002 PM COSB-JAN		
			STR20002 PM COSB-JAN		
			027.8490.6550		23.67
			SDR17001 PM DIF LOC-JAN		
			SDR17001 PM DIF LOC-JAN		
			007.8330.6600		920.00
			STR20003 PM MSRI-JAN		
			STR20003 PM MSRI-JAN		
			017.8350.6550		460.00
			STR07004A PM RDA07-JAN		
			STR07004A PM RDA07-JAN		
			010.3830.6600		460.00
				Total :	**23,447.50**
85115	4/26/2022	005099 OMEGA INDUSTRIAL SUPPLY, INC.	YARD SUPPLIES PPE		
			YARD SUPPLIES PPE		
			004.8310.4206		249.88
				Total :	**249.88**
85116	4/26/2022	005295 AB FENCE COMPANY, INC.	COMM PARK: GATE REPAIR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85116	4/26/2022	005295 AB FENCE COMPANY, INC.	(Continued)		
			COMM PARK: GATE REPAIR		
			001.6000.4224		750.00
				Total :	**750.00**
85117	4/26/2022	005310 KOA CORPORATION	(H)STR15002-PE GCF JUL- DEC		
			(H)STR15002-PE GCF JUL- DEC		
			023.3890.4550		2,352.69
			(H)STR15002-PE ART3 JUL- DEC		
			(H)STR15002-PE ART3 JUL- DEC		
			005.8320.6816		9,410.77
			(R)STR15002-PE COR JUL- DEC		
			(R)STR15002-PE COR JUL- DEC		
			027.8490.6816		1,415.81
			(R)STR15002-PE ART3 JUL-DEC		
			(R)STR15002-PE ART3 JUL-DEC		
			005.8320.6816		5,663.25
			STR17001-DE COSB DEC-MAR		
			STR17001-DE COSB DEC-MAR		
			027.8490.6530		2.44
			STR17001-DE ART3 DEC-MAR		
			STR17001-DE ART3 DEC-MAR		
			005.8320.6530		927.49
			STR17001-DE MSRI DEC-MAR		
			STR17001-DE MSRI DEC-MAR		
			017.8350.6530		503.37
				Total :	**20,275.82**
85118	4/26/2022	005324 CHARLES ABBOTT ASSOCIATES, INC	FIRE MARSHALL SERVICES-MAR		
			FIRE MARSHALL SERVICES-MAR		
			029.2100.4540		5,721.25
				Total :	**5,721.25**
85119	4/26/2022	005326 RP LANDSCAPE & IRRIGATION	LMD LANDSCAPING MAINTENANCE		
			LMD 44 LANDSCAPING MAINT-APR		
			012.8500.4585		2,542.00
			LMD 47 LANDSCAPING MAINT-APR		
			012.8500.4585		176.00

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85119	4/26/2022	005326 RP LANDSCAPE & IRRIGATION	(Continued)	
			LMD 48 LANDSCAPING MAINT-APR 012.8500.4585	2,070.00
			LMD 54 LANDSCAPING MAINT-APR 012.8500.4585	512.00
			LMD 55 LANDSCAPING MAINT-APR 012.8500.4585	450.00
			LMD 59 LANDSCAPING MAINT-APR 012.8500.4585	20.00
			LMD 61 LANDSCAPING MAINT-APR 012.8500.4585	310.00
			LMD 63 LANDSCAPING MAINT-APR 012.8500.4585	100.00
			LMD 70 LANDSCAPING MAINT-APR 012.8500.4585	550.00
			LMD 76 LANDSCAPING MAINT-APR 012.8500.4585	150.00
			LMD 68 LANDSCAPING MAINT-APR 012.8500.4585	490.00
			LMD 69 LANDSCAPING MAINT-APR 012.8500.4585	95.00
			LMD 73 LANDSCAPING MAINT-APR 012.8500.4585	245.00
			LMD 11 LANDSCAPING MAINT-APR 012.8500.4585	446.00
			LMD 13 LANDSCAPING MAINT-APR 012.8500.4585	100.00
			LMD 15 LANDSCAPING MAINT-APR 012.8500.4585	430.00
			LMD 16 LANDSCAPING MAINT-APR 012.8500.4585	26.00
			LMD 17 LANDSCAPING MAINT-APR 012.8500.4585	586.00
			LMD 20 BASELINE LANDSCAPING MAINT-APR 012.8500.4585	166.00
			LMD 20 STREATER LANDSCAPING MAINT-APR 012.8500.4585	124.00

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85119	4/26/2022	005326 RP LANDSCAPE & IRRIGATION	(Continued)	
			LMD 21 LANDSCAPING MAINT-APR 012.8500.4585	124.00
			LMD 22 LANDSCAPING MAINT-APR 012.8500.4585	150.00
			LMD 24 LANDSCAPING MAINT-APR 012.8500.4585	26.00
			LMD 25 LANDSCAPING MAINT-APR 012.8500.4585	160.00
			LMD 29 LANDSCAPING MAINT-APR 012.8500.4585	160.00
			LMD 30 LANDSCAPING MAINT-APR 012.8500.4585	720.00
			LMD 31 LANDSCAPING MAINT-APR 012.8500.4585	470.00
			LMD 34 LANDSCAPING MAINT-APR 012.8500.4585	260.00
			LMD 35 LANDSCAPING MAINT-APR 012.8500.4585	182.00
			LMD 36 LANDSCAPING MAINT-APR 012.8500.4585	280.00
			LMD 37 LANDSCAPING MAINT-APR 012.8500.4585	350.00
			LMD 39 LANDSCAPING MAINT-APR 012.8500.4585	455.00
			LMD 43 LANDSCAPING MAINT-APR 012.8500.4585	150.00
			LMD 00 BASELINE LANDSCAPING MAINT-APR 012.8500.4585	260.00
			LMD 03 YARNELL LANDSCAPING MAINT-APR 012.8500.4585	150.00
			LMD 01A LANDSCAPING MAINT-APR 012.8500.4585	125.00
			LMD 01B LANDSCAPING MAINT-APR 012.8500.4585	125.00
			LMD 02 LANDSCAPING MAINT-APR 012.8500.4585	660.00

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85119	4/26/2022	005326 RP LANDSCAPE & IRRIGATION	(Continued)	
			LMD 03A LANDSCAPING MAINT-APR	
			012.8500.4585	110.00
			LMD 03B LANDSCAPING MAINT-APR	
			012.8500.4585	110.00
			LMD 04 LANDSCAPING MAINT-APR	
			012.8500.4585	40.00
			LMD 07 LANDSCAPING MAINT-APR	
			012.8500.4585	50.00
			LMD 08 LANDSCAPING MAINT-APR	
			012.8500.4585	142.00
			LMD 09 LANDSCAPING MAINT-APR	
			012.8500.4585	982.00
			LMD 10 LANDSCAPING MAINT-APR	
			012.8500.4585	1,936.00
			Total :	**17,765.00**
85120	4/26/2022	005326 RP LANDSCAPE & IRRIGATION	PARKS LANDSCAPING MAINTENANCE	
			CANYON OAK PARK LANDSCAPING-MAR	
			016.8540.4585	356.00
			CUNNINGHAM PARK LANDSCAPING-MAR	
			016.8540.4585	453.00
			SEELEY PARK LANDSCAPING-MAR	
			016.8540.4585	299.00
			OAK CREEK PARK LANDSCAPING-MAR	
			016.8540.4585	556.00
			MEMORIAL PARK LANDSCAPING-MAR	
			001.6000.4585	400.00
			POLICE STATION LANDSCAPING-MAR	
			001.2000.4585	500.00
			CITY HALL LANDSCAPING-MAR	
			042.9510.4585	500.00
			LIBRARY LANDSCAPING-MAR	
			001.6000.4585	600.00
			YMCA LANDSCAPING-MAR	
			001.6000.4585	600.00
			CORP YARD LANDSCAPING-MAR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85120	4/26/2022	005326 RP LANDSCAPE & IRRIGATION	(Continued)		
			004.8310.4585 AURANTIA PARK LANDSCAPING-MAR		400.00
			001.6000.4585 COMMUNITY PARK LANDSCAPING-MAR		933.00
			001.6000.4585		3,691.00
				Total :	**9,288.00**
85121	4/26/2022	005358 FLEET SERVICES INC	DEF FUEL ADDITIVE FOR ME541 DEF FUEL ADDITIVE FOR ME541		
			028.2050.4220 DEF FUEL ADDITIVE FOR ME541		57.44
			029.2100.4220		57.43
				Total :	**114.87**
85122	4/26/2022	005771 AMAZON CAPITAL SERVICES	OFFICE SUPPLIES 100% RECYCLED FILE FOLDERS		
			001.4500.4200 BLACK TONER		24.64
			001.4500.4200 OFFICE SUPPLIES		395.28
			001.4500.4200		150.00
				Total :	**569.92**
85123	4/26/2022	005771 AMAZON CAPITAL SERVICES	OFFICE SUPPLIES OFFICE SUPPLIES		
			001.0500 OFFICE SUPPLIES		123.01
			OFFICE SUPPLIES 042.9510.4200		136.10
			100% RECYCLED HANGING FOLDERS 100% RECYCLED HANGING FOLDERS		
			001.1700.4200		80.14
				Total :	**339.25**
85124	4/26/2022	006001 YUNEX LLC	TRAFFIC SIGNAL MAINT-MAR TRAFFIC SIGNAL MAINT-MAR		
			004.8310.4580		3,283.64

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85124	4/26/2022	006001 YUNEX LLC	(Continued)		
			STREET LIGHT MAINT-MAR		
			STREET LIGHT MAINT-MAR		
			013.8510.4664		2,528.50
			TRAFFIC SIGNAL CALL OUT-MAR		
			TRAFFIC SIGNAL CALL OUT-MAR		
			004.8310.4580		5,659.55
				Total :	**11,471.69**
85125	4/26/2022	006072 TRENCH SHORING COMPANY	PERMA PATCH BAGS		
			PERMA PATCH BAGS		
			004.8310.4206		2,070.31
				Total :	**2,070.31**
85126	4/26/2022	006100 ZACARIAS, NATIVIDAD	PARK DEPOSIT BALANCE		
			PARK DEPOSIT BALANCE		
			051.1430		500.00
			PARK DEPOSIT BALANCE		
			001.1450.9525		-180.00
				Total :	**320.00**
40	**Vouchers for bank code :**	wfb		**Bank total :**	**2,345,833.29**
40	**Vouchers in this report**			**Total vouchers :**	**2,345,833.29**

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85127	5/3/2022	000014 ALL CITY MANAGEMENT SERVICES	CROSSING GUARD SERVICES-4/3-4/16/22		
			CROSSING GUARD SERVICES-4/3-4/16/22		
			002.8200.4530		3,022.80
				Total :	**3,022.80**
85128	5/3/2022	000030 SAN BERNARDINO COUNTY SHERIFFS	VEHICLE MAINTENANCE- 10/2021-12/2021		
			VEHICLE MAINTENANCE- 10/2021-12/2021		
			001.2000.4240		9,422.79
			CELL PHONE - 10/2021-12/2021		
			CELL PHONE - 10/2021-12/2021		
			001.2000.4061		174.56
			TRANSCRIPTIONS - 10/2021-12/2021		
			TRANSCRIPTIONS - 10/2021-12/2021		
			001.2000.4560		1,922.89
			O/T & ON-CALL-10/2021-12/2021		
			O/T & ON-CALL-10/2021-12/2021		
			001.2000.4560		70,789.41
			O/T SPECIAL EVENTS - 10/2021-12/2021		
			O/T SPECIAL EVENTS - 10/2021-12/2021		
			001.2000.4560		2,269.03
			O/T SPECIAL EVENTS - 10/2021-12/2021		
			O/T SPECIAL EVENTS - 10/2021-12/2021		
			001.2000.4560		3,043.09
			PERSONNEL CREDITS - 10/2021-12/2021		
			PERSONNEL CREDITS - 10/2021-12/2021		
			001.2000.4560		-57,571.20
			O/T COVID 19 - 10/2021-12/2021		
			O/T COVID 19 - 10/2021-12/2021		
			001.2000.4560		2,649.57
				Total :	**32,700.14**
85129	5/3/2022	000085 EAST VALLEY WATER DISTRICT	LMD 04-APR		
			LMD 04-APR		
			012.8500.4030		62.30
			POLICE STATION-APR		
			POLICE STATION-APR		
			001.2000.4030		183.80

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85129	5/3/2022	000085 EAST VALLEY WATER DISTRICT	(Continued)	
			POLICE STATION-APR	
			POLICE STATION-APR	
			001.2000.4030	1,534.85
			STATION # 3-APR	
			STATION # 3-APR	
			029.2100.4030	26.35
			STATION # 3-APR	
			028.2050.4030	26.35
			LMD 29-APR	
			LMD 29-APR	
			012.8500.4030	74.03
			CITY HALL-APR	
			CITY HALL-APR	
			042.9510.4030	304.28
			LMD 15 - A-APR	
			LMD 15 - A-APR	
			012.8500.4030	284.24
			LMD 07-APR	
			LMD 07-APR	
			012.8500.4030	76.63
			BASELINE MEDIAN-APR	
			BASELINE MEDIAN-APR	
			004.8310.4030	81.47
			STATION # 1-APR	
			STATION # 1-APR	
			029.2100.4030	49.95
			STATION # 1-APR	
			028.2050.4030	49.95
			LMD 21- B-APR	
			LMD 21- B-APR	
			012.8500.4030	89.27
			STATION # 2-APR	
			STATION # 2-APR	
			029.2100.4030	101.94
			STATION # 2-APR	
			028.2050.4030	101.92
			CITY HALL-APR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85129	5/3/2022	000085 EAST VALLEY WATER DISTRICT	(Continued)	
			CITY HALL-APR	
			042.9510.4030	35.14
			AURANTIA PARK-APR	
			AURANTIA PARK-APR	
			001.6000.4030	1,046.80
			LMD 44-APR	
			LMD 44-APR	
			012.8500.4030	1,026.25
			LMD 15 - B-APR	
			LMD 15 - B-APR	
			012.8500.4030	530.82
			STATION # 2-APR	
			STATION # 2-APR	
			029.2100.4030	17.57
			STATION # 2-APR	
			028.2050.4030	17.57
			BASELINE MEDIAN-APR	
			BASELINE MEDIAN-APR	
			004.8310.4030	97.86
			LMD 73-APR	
			LMD 73-APR	
			012.8500.4030	54.68
			LMD 37-APR	
			LMD 37-APR	
			012.8500.4030	218.54
			STATION # 3-APR	
			STATION # 3-APR	
			029.2100.4030	113.17
			STATION # 3-APR	
			028.2050.4030	113.17
			LMD 21- A-APR	
			LMD 21- A-APR	
			012.8500.4030	68.28
			STATION # 3-APR	
			STATION # 3-APR	
			029.2100.4030	34.96
			STATION # 3-APR	

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85129	5/3/2022	000085 EAST VALLEY WATER DISTRICT	(Continued)		
			028.2050.4030 POLICE STATION-APR		34.96
			POLICE STATION-APR 001.2000.4030 POLICE STATION-APR		52.70
			POLICE STATION-APR 001.2000.4030		52.70
				Total :	**6,562.50**
85130	5/3/2022	000086 TYLER TECHNOLOGIES, INC, EDEN SYS	PROJECT ACCTG TRAINING		
			PROJECT ACCTG TRAINING 001.1700.4255		244.50
				Total :	**244.50**
85131	5/3/2022	000090 FEDEX	OVERNIGHT MAIL		
			OVERNIGHT MAIL - SCE 001.4200.4210		9.80
			OVERNIGHT MAIL-DRA21007 001.4200.4210		124.04
			OVERNIGHT MAIL 001.1700.4210		38.01
				Total :	**171.85**
85132	5/3/2022	000113 VULCAN MATERIALS CO	ASPHALT ROAD REPAIR		
			ASPHALT ROAD REPAIR 004.8310.4206		205.13
				Total :	**205.13**
85133	5/3/2022	000155 NEW YORK LIFE	NEW YORK LIFE-MAY		
			NEW YORK LIFE-MAY 001.1180		9.75
			NEW YORK LIFE-MAY 004.1180		0.65
			NEW YORK LIFE-MAY 041.1180		1.95
			NEW YORK LIFE-MAY 070.1180		0.65

Bank code : wfb

Voucher	Date	Vendor		Description/Account		Amount
85133	5/3/2022	000155	000155 NEW YORK LIFE	(Continued)	Total :	13.00
85134	5/3/2022	000166	PUBLIC AGENCY RISK SHARING	GARAY SIR BALANCE		
				GARAY SIR BALANCE		
				041.9500.4390		10,503.97
					Total :	10,503.97
85135	5/3/2022	000167	PARTY PLUS RENTALS INC	CHF TABLES & CHAIRS		
				CHF TABLES & CHAIRS		
				051.1471		830.55
					Total :	830.55
85136	5/3/2022	000176	PRINCIPAL LIFE INSURANCE CO	PRINCIPAL-MAY		
				PRINCIPAL-MAY		
				001.1200.3590		41.86
				PRINCIPAL-MAY		
				001.1450.3590		62.29
				PRINCIPAL-MAY		
				001.1600.3590		7.84
				PRINCIPAL-MAY		
				001.1700.3590		87.67
				PRINCIPAL-MAY		
				001.3200.3590		29.78
				PRINCIPAL-MAY		
				001.4100.3590		111.93
				PRINCIPAL-MAY		
				001.4200.3590		63.09
				PRINCIPAL-MAY		
				001.4500.3590		46.34
				PRINCIPAL-MAY		
				001.4600.3590		48.62
				PRINCIPAL-MAY		
				001.6000.3590		17.04
				PRINCIPAL-MAY		
				001.6010.3590		16.23
				PRINCIPAL-MAY		
				001.6020.3590		10.94
				PRINCIPAL-MAY		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85136	5/3/2022	000176 PRINCIPAL LIFE INSURANCE CO	(Continued)		
			004.8310.3590 PRINCIPAL-MAY		107.60
			006.8400.3590 PRINCIPAL-MAY		29.77
			010.3830.3590 PRINCIPAL-MAY		31.32
			012.8500.3590 PRINCIPAL-MAY		8.40
			016.8540.3590 PRINCIPAL-MAY		8.40
			023.3890.3590 PRINCIPAL-MAY		4.68
			024.8470.3590 PRINCIPAL-MAY		0.87
			041.9500.3590 PRINCIPAL-MAY		13.86
			042.9510.3590 PRINCIPAL-MAY		28.07
			070.7000.3590		28.71
				Total :	**805.31**
85137	5/3/2022	000203 SOUTHERN CALIFORNIA EDISON	SIGNALS-APR SIGNALS- APR		
			004.8310.4580 SMART N FINAL SCE FEES-APR SMART N FINAL SCE FEES-APR		2,903.55
			013.8510.4011 TRAFFIC SIG PALM/CYPRESS-APR TRAFFIC SIG PALM/CYPRESS-APR		27.49
			004.8310.4580 TRAFFIC SIG PALM/CYPRESS-APR TRAFFIC SIG PALM/CYPRESS-APR		61.66
			013.8510.4011		42.18
				Total :	**3,034.88**
85138	5/3/2022	000203 SOUTHERN CALIFORNIA EDISON	STATION #3 - MAR STATION #3 - MAR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85138	5/3/2022	000203 SOUTHERN CALIFORNIA EDISON	(Continued)	
			028.2050.4010 STATION #3 - MAR	673.58
			029.2100.4010 LS#3-ADJ LS#3-ADJ	673.57
			013.8510.4011 LS#3-REVERSAL LS#3-REVERSAL	73.04
			004.8310.4580	-73.04
			Total :	**1,347.15**
85139	5/3/2022	000204 SOCALGAS	STATION #2-APR STATION #2-APR	
			028.2050.4020 STATION #2-APR	30.84
			029.2100.4020 STATION #3-APR STATION #3-APR	30.84
			028.2050.4020 STATION #3-APR	49.25
			029.2100.4020 CITY HALL-APR CITY HALL-APR	49.25
			042.9510.4020 STATION #1-APR STATION #1-APR	37.02
			028.2050.4020 STATION #1-APR	39.26
			029.2100.4020 POLICE-APR POLICE-APR	39.25
			001.2000.4020	1,895.47
			Total :	**2,171.18**
85140	5/3/2022	000207 KONICA MINOLTA	COPIER MAINT-APR COPIER MAINT- APR	
			001.2000.4205	13.98

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85140	5/3/2022	000207 KONICA MINOLTA	(Continued)		
			COPIER MAINT- APR		
			042.9510.4205		809.52
				Total :	**823.50**
85141	5/3/2022	000226 UNUM LIFE INSURANCE	LONG TERM DISABILITY-MAY		
			LONG TERM DISABILITY-MAY		
			001.1180		616.03
			LONG TERM DISABILITY-MAY		
			004.1180		58.23
			LONG TERM DISABILITY-MAY		
			006.1180		18.50
			LONG TERM DISABILITY-MAY		
			010.1180		37.00
			LONG TERM DISABILITY-MAY		
			041.1180		25.52
			LONG TERM DISABILITY-MAY		
			070.1180		55.13
				Total :	**810.41**
85142	5/3/2022	000232 WALMART BUSINESS/SYNCB	UNIFORM ALLOWANCE-AVON		
			UNIFORM ALLOWANCE-AVON		
			004.8310.4249		147.80
				Total :	**147.80**
85143	5/3/2022	000233 WAXIE SANITARY SUPPLY	PD: JANITORIAL SUPPLIES		
			40% RECYCLED SINGLEFOLD HAND TOWEL		
			001.2000.4055		178.18
			50% RECYCLED 2 PLY TOILET TISSUE		
			001.2000.4055		161.72
			50% RECYCLED KLEENEX SLIMFOLD TOWELS		
			001.2000.4055		63.77
			MISC SUPPLIES		
			001.2000.4055		92.57
				Total :	**496.24**
85144	5/3/2022	000623 HARBOR FREIGHT TOOLS	MAINTENANCE SUPPLIES-CORP YARD		
			MAINTENANCE SUPPLIES-CORP YARD		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85144	5/3/2022	000623 HARBOR FREIGHT TOOLS	(Continued)		
			004.8310.4203		53.27
				Total :	**53.27**
85145	5/3/2022	000970 SOUTH COAST AQMD	ANNUAL OPERATING FEES - FUEL STATION		
			ANNUAL OPERATING FEES - FUEL STATION		
			001.2000.4222		570.26
			EMISSIONS FEE - FUEL STATION		
			EMISSIONS FEE - FUEL STATION		
			001.2000.4222		142.59
				Total :	**712.85**
85146	5/3/2022	001404 LOWE'S	CHF: SUPPLIES		
			CHF: SUPPLIES		
			051.1471		49.42
			FS#1: TOOL ROOM WINDOW BLINDS		
			FS#1: TOOL ROOM WINDOW BLINDS		
			029.2100.4070		40.44
			FS#1: TOOL ROOM WINDOW BLINDS		
			028.2050.4070		40.42
				Total :	**130.28**
85147	5/3/2022	001677 YMCA OF THE EAST VALLEY	MONTHLY REIMB-FEB		
			MONTHLY REIMB-FEB		
			001.6000.4526		41,250.00
				Total :	**41,250.00**
85148	5/3/2022	001848 SB CO ASSESSORS OFFICE	PARCEL MAP REVISIONS-APR		
			PARCEL MAP REVISIONS-APR		
			001.4100.4310		6.00
				Total :	**6.00**
85149	5/3/2022	002137 WAGEWORKS	SECITON 125 POP 2022		
			SECITON 125 POP 2022		
			001.1600.4622		485.00
				Total :	**485.00**
85150	5/3/2022	002511 RECORDER-CLERK CO OF SB	DOCUMENT RECORDING SERVICES-APR		
			DOCUMENT RECORDING SERVICES-APR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85150	5/3/2022	002511 RECORDER-CLERK CO OF SB	(Continued)	
			001.1200.4506 DOCUMENT RECORDING SERVICES-APR	40.00
			DOCUMENT RECORDING SERVICES-APR 001.1200.4506 DOCUMENT RECORDING SERVICES-APR	20.00
			DOCUMENT RECORDING SERVICES-APR 001.1200.4506	60.00
			Total :	**120.00**
85151	5/3/2022	002653 H & H GENERAL CONTRACTORS	BRG04004A CON MSRC PPE# 10	
			BRG04004A CON MSRC PPE# 10 027.8490.6813 BRG04004A CON DIF REG PPE# 10	6,606.00
			BRG04004A CON DIF REG PPE# 10 007.8330.6813 BRG04004A CON PNRS PPE# 10	6,606.00
			BRG04004A CON PNRS PPE# 10 030.8495.6813 BRG04004A CON DIF REG PPE# 10	244,210.13
			BRG04004A CON DIF REG PPE# 10 007.8330.6813 BRG04004A CON DIF REG PPE# 10	61,052.53
			BRG04004A CON DIF REG PPE# 10 007.8330.6813 BRG04004A CON COSB PPE# 10	436,760.04
			BRG04004A CON COSB PPE# 10 027.8490.6813 BRG04004A CON MSRC RET PPE# 10	9,988.00
			BRG04004A CON MSRC RET PPE# 10 027.1350 BRG04004A CON DIF REG RET PPE# 10	-330.30
			BRG04004A CON DIF REG RET PPE# 10 007.1350 BRG04004A CON PNRS RET PPE# 10	-330.30
			BRG04004A CON PNRS RET PPE# 10 030.1350 BRG04004A CON DIF REG RET PPE# 10	-12,210.51

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85151	5/3/2022	002653 H & H GENERAL CONTRACTORS	(Continued)		
			BRG04004A CON DIF REG RET PPE# 10		
			007.1350		-3,052.63
			BRG04004A CON DIF REG RET PPE# 10		
			BRG04004A CON DIF REG RET PPE# 10		
			007.1350		-21,837.99
			BRG04004A CON COSB RET PPE# 10		
			BRG04004A CON COSB RET PPE# 10		
			027.1350		-499.40
				Total :	**726,961.57**
85152	5/3/2022	004206 #1 SON PLUMBING	CITY HALL: WATER LEAK REPAIR		
			CITY HALL: WATER LEAK REPAIR		
			042.9510.4070		885.00
				Total :	**885.00**
85153	5/3/2022	004709 VORTEX INDUSTRIES, INC.	PD: PREVENTIVE MAINTENANCE ON DOOR & GAT		
			PD: PREVENTIVE MAINTENANCE ON DOOR &		
			001.2000.4224		647.00
				Total :	**647.00**
85154	5/3/2022	004851 SOUTHWEST AERIAL & CRANE	ANNUAL BUCKET TRUCK LIFT INSPECTION & CE		
			ANNUAL BUCKET TRUCK LIFT INSPECTION &		
			004.8310.4240		996.00
				Total :	**996.00**
85155	5/3/2022	004920 TKE ENGINEERING	BRG04004A CE DIF REG-MAR		
			BRG04004A CE DIF REG-MAR		
			007.8330.6813		6,385.28
			BRG04004A CE PNRS-MAR		
			BRG04004A CE PNRS-MAR		
			030.8495.6813		25,541.11
			BRG04004A CE NONPART DIF REG-MAR		
			BRG04004A CE NONPART DIF REG-MAR		
			007.8330.6813		30,267.49
				Total :	**62,193.88**
85156	5/3/2022	004920 TKE ENGINEERING	SWK19001 DE MSRI AUG-MAR		
			SWK19001 DE MSRI AUG-MAR		

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85156	5/3/2022	004920 TKE ENGINEERING	(Continued)		
			017.8350.6545 SWK19001 DE ART3 AUG-MAR SWK19001 DE ART3 AUG-MAR		182.50
			005.8320.6545 STR20002 DE DIF LOC-MAR STR20002 DE DIF LOC-MAR		182.50
			007.8330.6550 STR20002 DE RDA07-MAR STR20002 DE RDA07-MAR		2,010.89
			010.3830.6550 STR20002 DE COSB-MAR STR20002 DE COSB-MAR		4,144.20
			027.8490.6550 BRG12001 PM DIF REG-MAR BRG12001 PM DIF REG-MAR		4,307.41
			007.8330.6813 STR18001 PM RDA07-MAR STR18001 PM RDA07-MAR		230.00
			010.3830.6550		7,705.00
				Total :	**18,762.50**
85157	5/3/2022	004920 TKE ENGINEERING	STOP WARRANT ANALYSIS: CHURCH & CYPRESS STOP WARRANT ANALYSIS: CHURCH & CYPRESS		
			023.3890.4550		299.50
				Total :	**299.50**
85158	5/3/2022	004939 GUARDIAN	DENTAL-MAY DENTAL-MAY		
			001.1160 DENTAL-MAY		863.47
			004.1160 DENTAL-MAY		221.93
			006.1160 DENTAL-MAY		14.13
			010.1160 DENTAL-MAY		108.09
			012.1160		9.62

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
85158	5/3/2022	004939 GUARDIAN	(Continued)	
			DENTAL-MAY	
			016.1160	9.63
			DENTAL-MAY	
			024.1160	1.78
			DENTAL-MAY	
			041.1160	30.27
			DENTAL-MAY	
			042.1160	19.25
			DENTAL-MAY	
			070.1160	15.73
			Total :	**1,293.90**
85159	5/3/2022	004956 FIDELITY SECURITY	VISION-MAY	
			VISION-MAY	
			010.1160	15.21
			VISION-MAY	
			012.1160	5.18
			VISION-MAY	
			016.1160	5.18
			VISION-MAY	
			024.1160	0.41
			VISION-MAY	
			041.1160	1.64
			VISION-MAY	
			042.1160	10.36
			VISION-MAY	
			070.1160	3.59
			VISION-MAY	
			001.1160	146.53
			VISION-MAY	
			004.1160	31.77
			VISION-MAY	
			006.1160	7.61
			Total :	**227.48**
85160	5/3/2022	005144 SESAC	CHF MUSIC COPYRIGHT - 2022	
			CHF MUSIC COPYRIGHT - 2022	

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85160	5/3/2022	005144 SESAC	(Continued)		
			051.1471		124.85
				Total :	**124.85**
85161	5/3/2022	005394 DATA TICKET, INC.	PARKING CITATIONS-MAR		
			PARKING CITATIONS-MAR		
			001.1700.4516		44.32
				Total :	**44.32**
85162	5/3/2022	005402 BORDIN SEMMER LLP	GARAY-MAR		
			GARAY-MAR		
			041.9500.4390		7,253.10
				Total :	**7,253.10**
85163	5/3/2022	005516 BASE HILL, INC.	JANITORIAL SERVICES-		
			CITY HALL-APR		
			042.9510.4504		1,562.00
			COUNCIL CHAMBERS-APR		
			042.9510.4504		311.00
			AURANTIA PARK-APR		
			001.6000.4504		1,454.00
			COMMUNITY PARK-APR		
			001.6000.4504		1,950.00
			POLICE DEPT-APR		
			001.2000.4504		1,080.00
				Total :	**6,357.00**
85164	5/3/2022	005553 CLARK PEST CONTROL OF STOCKTON	PEST CONTROL SERVICES-PD		
			PEST CONTROL SERVICES-PD		
			001.2000.4589		97.00
				Total :	**97.00**
85165	5/3/2022	005554 IMPERIAL SPRINKLER SUPPLY	IRRIG REPAIR PARTS - COMM & AURANTIA		
			IRRIG REPAIR PARTS - COMM & AURANTIA		
			001.6000.4206		1,516.48
			IRRIG REPAIR PARTS - COMM & AURANTIA		
			IRRIG REPAIR PARTS - COMM & AURANTIA		
			001.6000.4206		196.75

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85165	5/3/2022	005554	005554 IMPERIAL SPRINKLER SUPPLY (Continued)	Total :	1,713.23
85166	5/3/2022	005671	HOME DEPOT CREDIT SERVICES		
			PORTABLE BAND SAW		
			PORTABLE BAND SAW		
			004.8310.4203		559.22
				Total :	559.22
85167	5/3/2022	005737	AGA ENGINEERS, INC.		
			ON CALL SIGNAL MONITORING-MAR		
			ON CALL SIGNAL MONITORING-MAR		
			020.8440.4550		1,650.00
			TRAFFIC SIGNAL MONITORING SERVICE-MAR		
			TRAFFIC SIGNAL MONITORING SERVICE-MAR		
			020.8440.4550		3,200.00
				Total :	4,850.00
85168	5/3/2022	005771	AMAZON CAPITAL SERVICES		
			FRONT DESK SAFETY SUPPLIES		
			FRONT DESK SAFETY SUPPLIES		
			001.1200.4200		31.38
			EV INVERTER		
			EV INVERTER		
			001.4600.4200		71.07
				Total :	102.45
85169	5/3/2022	006001	YUNEX LLC		
			KD/RML - POLE# 30270H-PALM & MEINES		
			KD/RML - POLE# 30270H-PALM & MEINES		
			013.8510.4664		2,082.76
			KD/RML - POLE# 50446H-CHURCH & GARDNER		
			KD/RML - POLE# 50446H-CHURCH & GARDNER		
			013.8510.4664		2,113.12
				Total :	4,195.88
85170	5/3/2022	006056	CAL FIRE		
			WILDLAND PROT AGREEMENT 21/22		
			WILDLAND PROT AGREEMENT 21/22		
			029.2100.4568		47,387.57
				Total :	47,387.57
85171	5/3/2022	006099	CHARTER COMMUNICATIONS		
			POLICE TELE/INT SERVICE-MAR		
			POLICE TELE/INT SERVICE-MAR		
			001.2000.4065		1,136.33

Bank code : wfb

Voucher	Date	Vendor	Description/Account		Amount
85171	5/3/2022	006099 CHARTER COMMUNICATIONS	(Continued)		
			POLICE TELE/INT SERVICE-APR		
			POLICE TELE/INT SERVICE-APR		
			001.2000.4065		1,130.60
			CORP YARD TELE/INT SERVICE-MAR		
			CORP YARD TELE/INT SERVICE-MAR		
			004.8310.4060		673.55
			CORP YARD TELE/INT SERVICE-APR		
			CORP YARD TELE/INT SERVICE-APR		
			004.8310.4060		672.32
				Total :	**3,612.80**
85172	5/3/2022	006101 INLAND VALLEY HEATING & AIR	REFUND OVERCHARGED BP#20211221		
			REFUND OVERCHARGED BP#20211221		
			001.1450.7600		75.00
			REFUND OVERCHARGED BP#20211221		
			001.1450.7630		1.00
			REFUND OVERCHARGED BP#20211221		
			008.8340.9543		2.30
				Total :	**78.30**
85173	5/3/2022	006102 LAUNDRY DAY LLC	SMALL BUS ASST PROG CSFRF/CLFRF-ARP		
			SMALL BUS ASST PROG CSFRF/CLFRF-ARP		
			030.8495.4349		7,500.00
				Total :	**7,500.00**
85174	5/3/2022	006103 BASELINE BUGGIES	SMALL BUS ASST PROG CSFRF/CLFRF-ARP		
			SMALL BUS ASST PROG CSFRF/CLFRF-ARP		
			030.8495.4349		7,500.00
				Total :	**7,500.00**
1002100672	5/3/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	PERS HEALTH-MAY		
			PERS HEALTH-MAY		
			001.1150		11,264.36
			PERS HEALTH-MAY		
			004.1150		1,683.85
			PERS HEALTH-MAY		
			006.1150		501.70

Bank code : wfb

Voucher	Date	Vendor	Description/Account	Amount
1002100672	5/3/2022	000004 PUBLIC EMPLOYEE RETIREMENT SYS	(Continued)	
			PERS HEALTH-MAY	
			010.1150	1,131.35
			PERS HEALTH-MAY	
			012.1150	192.96
			PERS HEALTH-MAY	
			016.1150	192.96
			PERS HEALTH-MAY	
			041.1150	323.07
			PERS HEALTH-MAY	
			070.1150	308.37
			PERS HEALTH-MAY	
			001.1450.3511	51.98
			PERS HEALTH-MAY	
			041.9500.3515	2,000.00
			Total :	**17,650.60**

49 Vouchers for bank code : wfb **Bank total :** **1,027,941.46**

49 Vouchers in this report **Total vouchers :** **1,027,941.46**

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Chuck Dantuono, Director of Administrative Services/City Treasurer

SUBJECT: Treasurer's Report for March 2022

RECOMMENDATION: City Council to receive and file the Treasurer's Report for March 2022

FISCAL IMPACT: Cash and Investments:

General Fund	$ 8,257,387.01
Special Revenue Funds	$28,427,061.76
Internal Service Funds	$ 4,402,667.03
Capital Projects Funds	$19,344,763.61
Agency Funds	$ 1,951,728.22
Housing Authority Fund	$ 3,687,579.76
SARDA Funds	$ 2,120,261.38

PUBLIC NOTICE: The agenda for this item was posted at the three required locations.

BACKGROUND: Increases in the checking account were due to revenues received plus funds wired from LAIF and CAMP. Decreases in the checking account were a result of payments to vendors, payroll and funds wired to LAIF, CAMP and U.S. Bank.

Increases in the fiscal agent accounts (US Bank) resulted from interest and bond payment receipt. Decreases resulted in vendor payments and debt service payments.

Increases in the CAMP account were due to interest received. Decreases were a result of funds being wired to the city's checking account primarily for payment of public works projects.

The maximum limit on regular accounts is $65M.

Approved _____ Motion _____ Second _____ Agenda Item No. 4

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

City Clerk

City Manager

CITY OF HIGHLAND
Treasurer's Report
as of March 31, 2022

CASH AND BANK ACCOUNTS:

Cash on Hand-Office Petty Cash & Change Fund Accounts	1,150.00
Wells Fargo Checking Account	14,641,748.57

DESCRIPTION	MATURITY PERIOD	YIELD	PAR VALUE	ORIGINAL COST
INVESTMENTS: LOCAL GOVERNMENT INVESTMENT POOLS				
California Treasurer's Local Agency Investment Fund (LAIF)	n/a	0.365%		
General Fund			4,584,696.01	
Special Revenue Funds			18,122,490.00	
Internal Service Funds			4,535,415.00	
Capital Projects Funds			13,499,359.00	
Total City LAIF Funds				40,741,960.01
Housing Authority Fund			3,555,043.33	
Total Housing Authority LAIF Funds				3,555,043.33
Total LAIF Funds				44,297,003.34

1) Maximum limits on accounts are $65M City and $65M Housing Authority.
2) Quarterly interest earnings are deposited directly to accounts.
3) Funds are available within 24 hours or less depending on time of wire.
4) Pooled Money Investment Board Report dated February 2022 is on-line for listing of investments.
5) Market Value is based on the March 31, 2022 applicable percentage of 0.988753538.
6) Market Value is $43,798,818.78 ($44,297,003.34 x 0.988753538).

California Asset Management Program (CAMP)	n/a	0.250%		
General Fund			131,816.87	
Special Revenue Funds			1,554,739.00	
Capital Projects Funds			5,702,256.00	
Total CAMP Funds				7,388,811.87
INVESTMENTS: FISCAL AGENT ACCOUNTS				
US Bank Corporate Trust Services (Community Facilities Districts)				
Community Facilities District (CFD) 90-1				
Administrative Expense Fund #128262-011				
US Bank Money Market Account CUSIP #8AMMF0AP6	n/a	0.00%	92,811.66	92,811.66
Fire Protection Expense Fund #128262-012				
US Bank Money Market Account CUSIP #8AMMF0AP6	n/a	0.00%	276,541.50	276,541.50
Police Protection Expense Fund #128262-013				
US Bank Money Market Account CUSIP #8AMMF0AP6	n/a	0.00%	102,282.53	102,282.53
Community Facilities District (CFD) 2001-1				
Special Tax Fund #217795000				
US Bank Money Market Account CUSIP #8AMMF0AP6	n/a	0.00%	198,782.42	198,782.42
Interest Account #217795001				
US Bank Money Market Account CUSIP #8AMMF0AP6	n/a	0.00%	-	-
Principal Account #217795002				
US Bank Money Market Account CUSIP #8AMMF0AP6	n/a	0.00%	-	-
Administrative Expense Account #217795003				
US Bank Money Market Account CUSIP #8AMMF0AP6	n/a	0.00%	18,250.63	18,250.63
Community Facilities District (CFD) 2007-1				
Administrative Expense Fund #260722000				
US Bank Money Market Account CUSIP #8AMMF0390	n/a	0.00%	8,648.23	8,648.23
Fire Expense Fund #260722001				
US Bank Money Market Account CUSIP #8AMMF0390	n/a	0.00%	13,520.94	13,520.94
Police Expense Fund #260722002				
US Bank Money Market Account CUSIP #8AMMF0390	n/a	0.00%	5,001.41	5,001.41
TOTAL INVESTMENTS US BANK (COMMUNITY FACILITIES DISTRICTS)				715,839.32

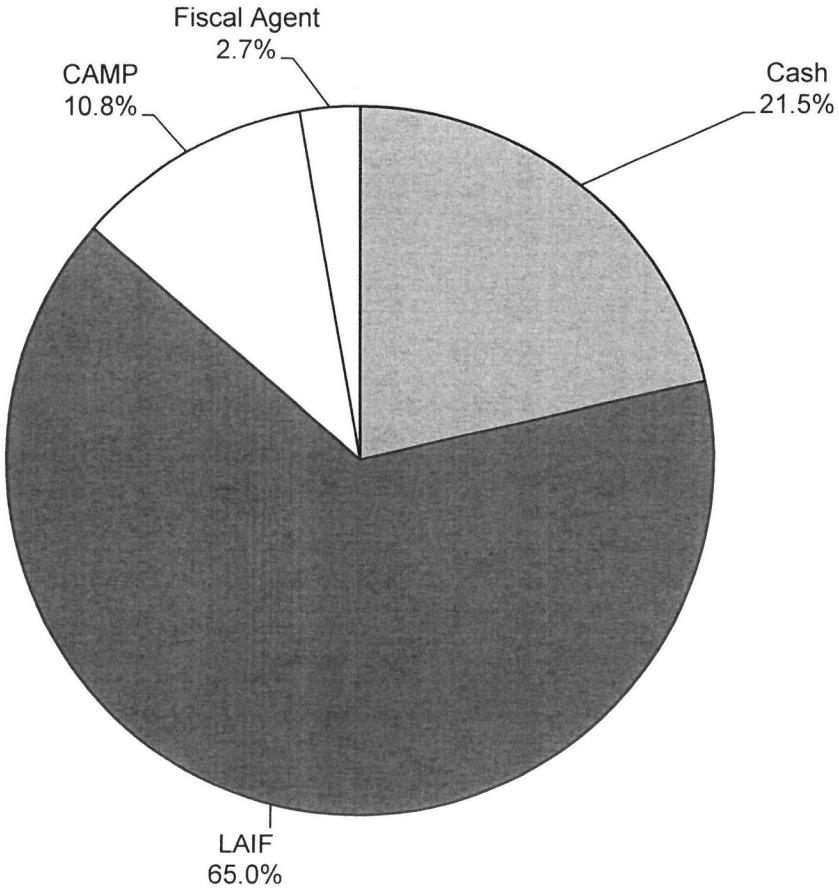
DESCRIPTION	MATURITY PERIOD	YIELD	PAR VALUE	ORIGINAL COST
INVESTMENTS: FISCAL AGENT ACCOUNTS (continued)				
US Bank Corporate Trust Services (SARDA)				
2004B Tax Allocation Refunding Bonds				
Special Fund 786709001				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	5.04	5.04
Interest Fund 786709002				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	0.10	0.10
Principal Fund 786709003				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	-	-
Reserve Fund 786709004				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.01%	176,426.31	176,426.31
2015A Tax Allocation Refunding Bonds				
Special Fund 268777000				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	1.96	1.96
Interest Fund 268777001				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	-	-
Principal Fund 268777002				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	-	-
Reserve Fund 268777004				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.01%	956,953.88	956,953.88
Expense Account 268777006				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	13,504.97	13,504.97
2017 Tax Allocation Refunding Bonds				
Debt Service Fund 259928000				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	3.41	3.41
Interest Fund 259928001				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	-	-
Principal Fund 259928002				
Federated Treasury Obligations CUSIP #60934N872	n/a	0.00%	-	-
TOTAL INVESTMENTS US BANK (SARDA)				1,146,895.67
TOTAL CASH AND INVESTMENTS				**68,191,448.77**

All investments are placed in accordance with City of Highland's Investment Policy and Guidelines. The above summary provides sufficient cash flow liquidity to meet the next six month's estimated expenditures. This report is in accordance with Government Code Section 53646.

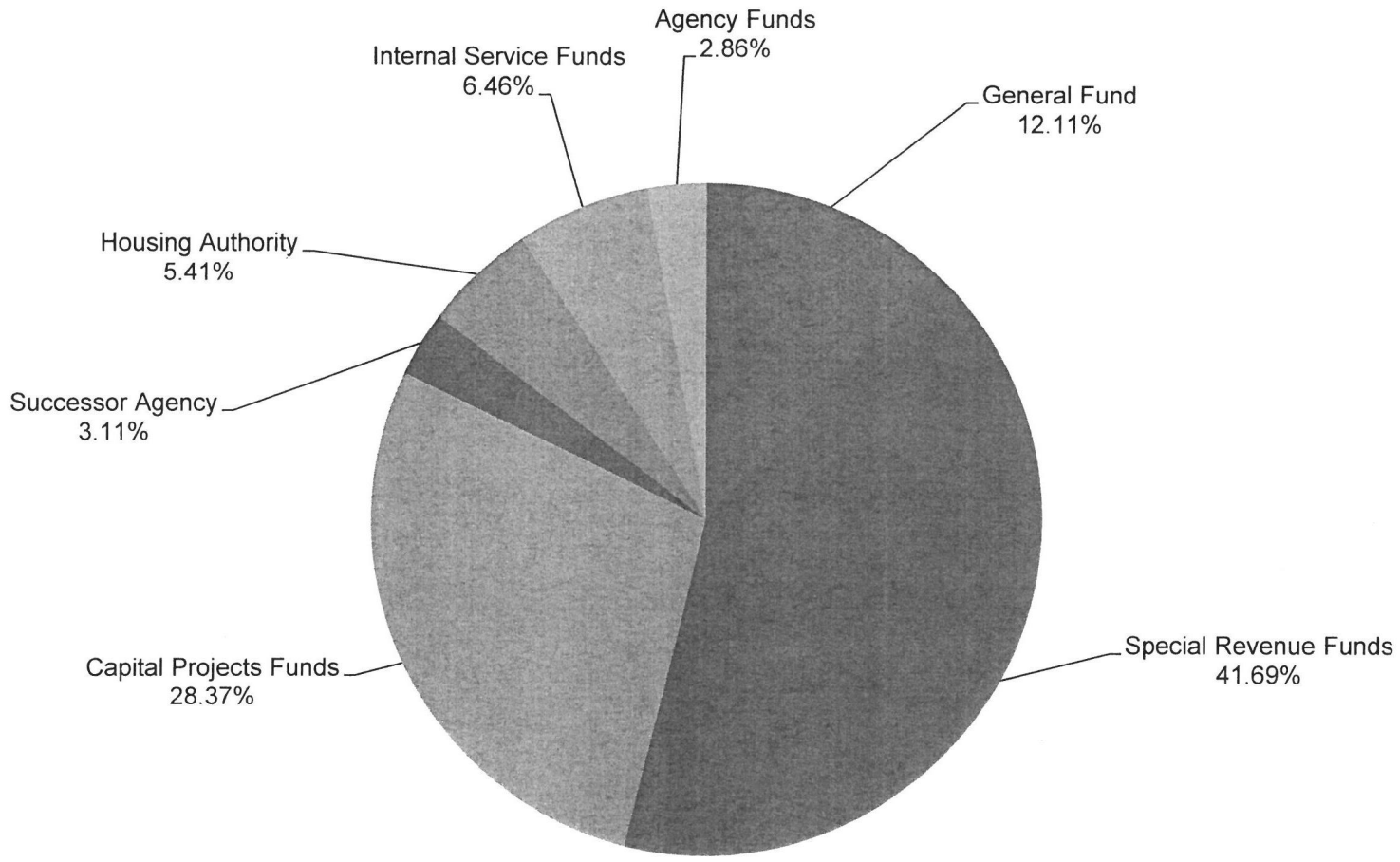
SIGNED:_____
Joseph A. Hughes
CITY MANAGER

SIGNED:_____
Chuck Dantuono
DIRECTOR OF ADMINISTRATIVE
SERVICES/CITY TREASURER

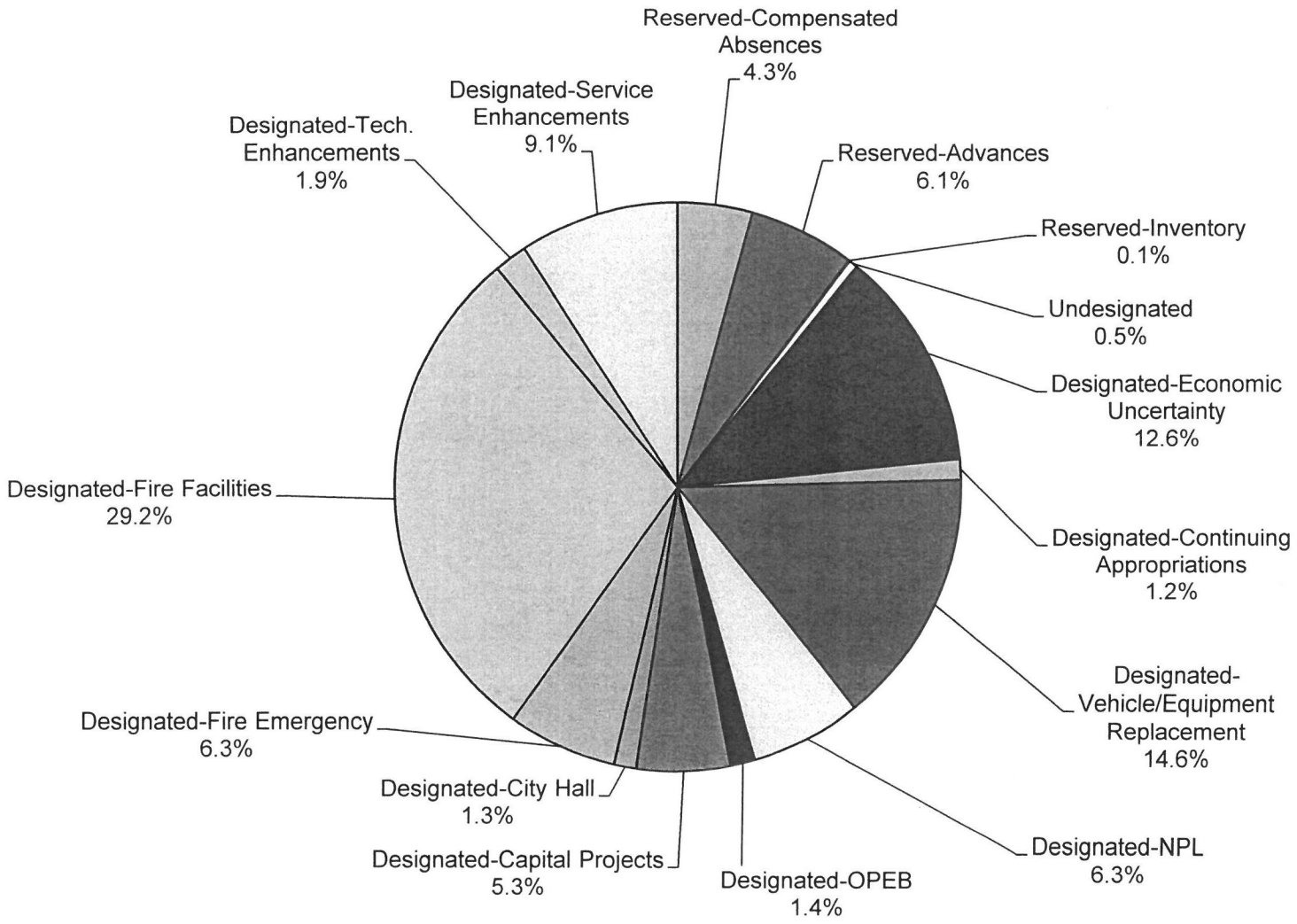
Treasurer's Report



Cash & Investments



General Fund Reserves



STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph Hughes, City Manager

PREPARED BY: Betty Hughes, MMC, City Clerk

REVIEWED BY: Chuck Dantuono, Director of Administrator Services/City Treasurer
Shawna Bryant, George Hills Company, Claims Adjusters

SUBJECT: Claim Consideration – Erika Madrigal

RECOMMENDATION: George Hills Company recommends the City Council reject the claim.

BACKGROUND: The Claim was received in the City Clerk's Office on April 11, 2022. It was then sent to the City's claim adjuster, George Hills Company, who is recommending the claim be rejected.

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Approved _____	Motion _____	Second _____	Agenda Item No. 5
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		

D Hughes

City Clerk

City Manager

GEORGE HILLS
Our minds over your matters.

April 13, 2022

Betty Hughes
City of Highland

RE:		
	Client:	City of Highland
	Claim Number:	GHC0042797
	Date of Loss:	03/17/2022
	Claimant:	Erika Madrigal

Dear Ms. Hughes:

We have reviewed the above captioned claim and request that you take the action indicated below:

- **Please issue a standard rejection to commence the statute of limitations.**

Please provide us with a copy of the notice once sent.

Should you have any questions, please feel free to contact the undersigned.

Kindest Regards,
George Hills Company, Inc.

Shawna Bryant

Shawna Bryant
Sr. Claims Adjuster
Direct Dial: (916) 859-4800
Email: Shawna.bryant@georgehills.com

City of
HIGHLAND
Inc. 1987

April 11, 2022

Dana Calkins, PECP
Claims Adjuster
Rancho Cordova Office
PO Box 278
Rancho Cordova, CA 95741

Re: Claimant(s): Erika Madrigal
Incident Date: March 17, 2022

Dear Dana:

Enclosed is a copy of a Claim received and filed in the Office of the City Clerk on April 11, 2022, on behalf of the above referenced claimant(s). Please review and advise this office on the appropriate action to be taken. This item will be tentatively scheduled for the City Council regular meeting of Tuesday, May 10, 2022, pending your recommendation.

If you have any questions, please contact Chuck Dantuono at (909) 864-6861, ext. 224 or myself at ext. 226.

Sincerely,

Betty Hughes

Betty Hughes, MMC
City Clerk

cc: Joseph Hughes, City Manager
Chuck Dantuono, Director of Administrative Services
Maricela Marroquin, City Attorney

claims/george hills letters/gh madrigal ltr.docx

Mayor Larry McCallon | **Mayor Pro Tem** Penny Lilburn | **City Council** Jesse Chavez | **City Council** Anaeli Solano | **City Council** John P. Timmer | **City Manager** Joseph A. Hughes

27215 Base Line • Highland, CA 92346
Tel: 909.864.6861 • Fax: 909.862.3180 • www.cityofhighland.org

RECEIVED

CITY OF HIGHLAND

Do not write in this space.
For office use only:

Received:_____

By: Lisa Del Rio

☐ Mail ☒ In person

CLAIM AGAINST THE CITY OF HIGHLAND

(For damages to persons or personal property)

A claim must be filed with the City Clerk within 180 days after which the incident or event occurred. Be sure your claim is against the City of Highland and not another public entity. Where space is insufficient, please use additional paper and identify information by paragraph number. Completed claims must be mailed or delivered to:

CITY CLERK, CITY OF HIGHLAND
27215 BASE LINE
HIGHLAND CA 92346
(909) 864-6861, ext. 226

WARNING: IT IS A CRIMINAL OFFENSE TO FILE A FALSE CLAIM, PENAL CODE S72; INSURANCE CODE S556.1.

NOTICE: PER GOVERNMENT CODE SECTION 910.4, THIS FORM MUST BE USED IN ORDER TO COMPLY WITH SECTIONS 910 AND 910.2 OF THE GOVERNMENT CODE.

TO THE HONORABLE MAYOR AND CITY COUNCIL OF THE CITY OF HIGHLAND:

The undersigned respectfully submits the following claim and information relative to damage to persons and/or personal property:

1. Name of Claimant Erika Madrigal

   a. Complete Address of Claimant, including City, State and Zip Code:
   7645 Stoney Creek Ct
   Highland CA 92346

   b. Phone Number (323) 717-6183

   c. Date of Birth 06/04/1989

d. Driver's License/State Identification Card Number:

_____

Issued by which State: California

X Driver's License _____ Identification Card

Expiration Date: 06/04/2022

2. Name, telephone and address to which claimant desires notices to be sent, if other than above:

_____

_____

3. Occurrence or event from which the claim arises:

a. Date of occurrence 03/17/2022

b. Time of occurrence 5:15 pm

c. Place of occurrence (Exact and specific location)

Driving South on Boulder Ave between Baseline St. and Jasper ST.

d. How and under what circumstances did damage or injury occur? Specify the particular occurrence, event, act or omission you claim caused the injury or damage (use additional paper if necessary).

Gravel bounced up in the air hit Front windshied. Winshield crack in front of passager side

e. What particular action by the City, or its employees, caused the alleged damage or injury?

Street was not well cleaned.

_____

4. A general description of the indebtedness, obligation, injury, damage or loss incurred so far as it may be known at the time of presentation of the claim. If there were no injuries, state "no injuries".

windshield has about 18" crack in front of passager side.

5. Give the name(s) of the City employee(s) causing the damage or injury:

N/A

6. Name and address of any other person injured:

N/A

7. Name and address of the owner of any damaged property:

Erika Madrigal

7645 Stoney Creek CT. Highland CA 92346

8. Damages Claimed:

a. Amount claimed as of this date: $_____

b. Estimate amount of future costs: $_____

c. Total amount claimed: $_____

d. Basis for computation of amounts claimed. **Include copies of all bills, invoices, estimates, etc.**:

9. Names and addresses of all witnesses, hospitals, doctors, etc.

a. _____

b. _____

c. _____

d. _____

e. _____

10. Any additional information which might be helpful in considering this claim:

_____

_____

_____

_____

_____

WARNING: IT IS A CRIMINAL OFFENSE TO FILE A FALSE CLAIM, PENAL CODE S72; INSURANCE CODE S556.1.

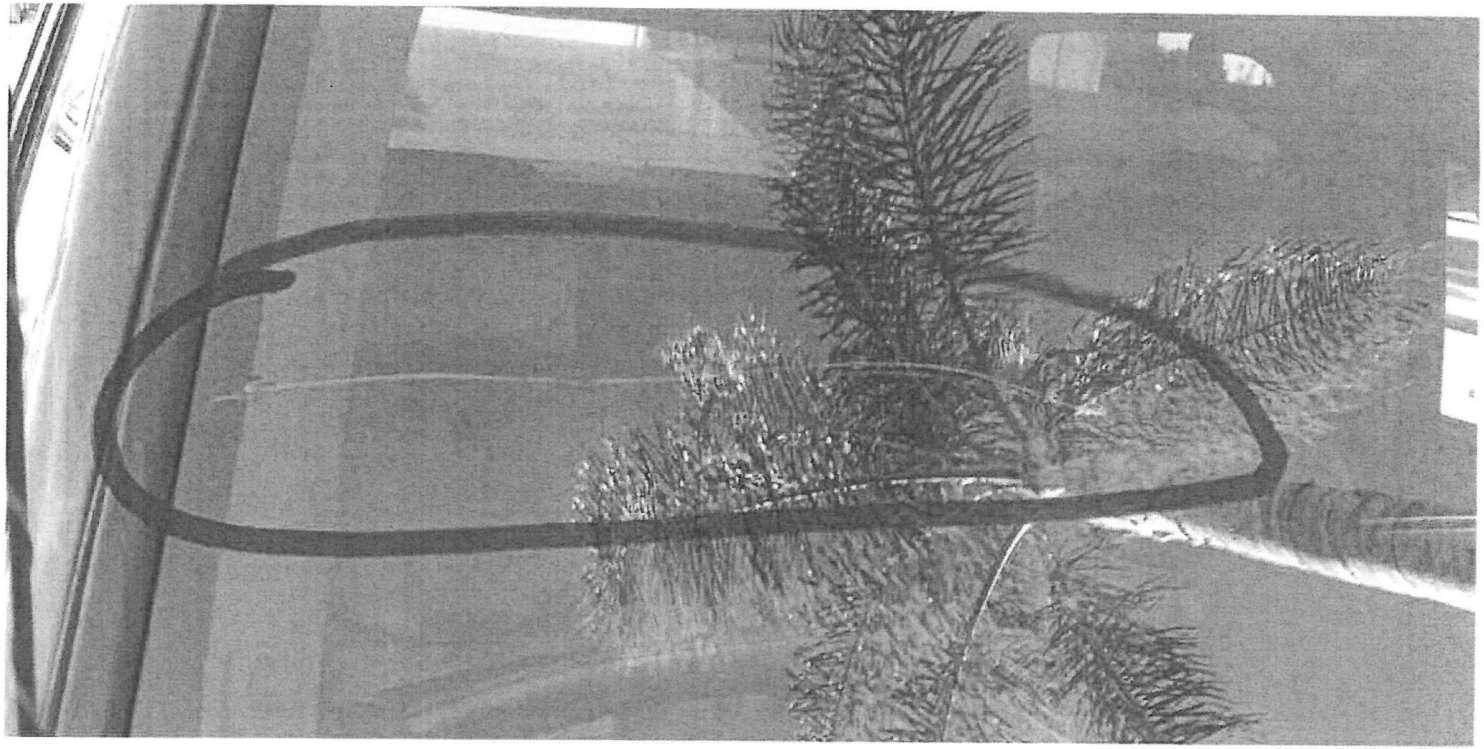
I have read the matters and statements made in the above claim and I know the same to be true of my own knowledge, except as to those matters stated upon information or belief as to such matters I believe the same to be true. I certify under penalty of perjury that the foregoing is true and correct.

Signed at: Highland CA
City and State

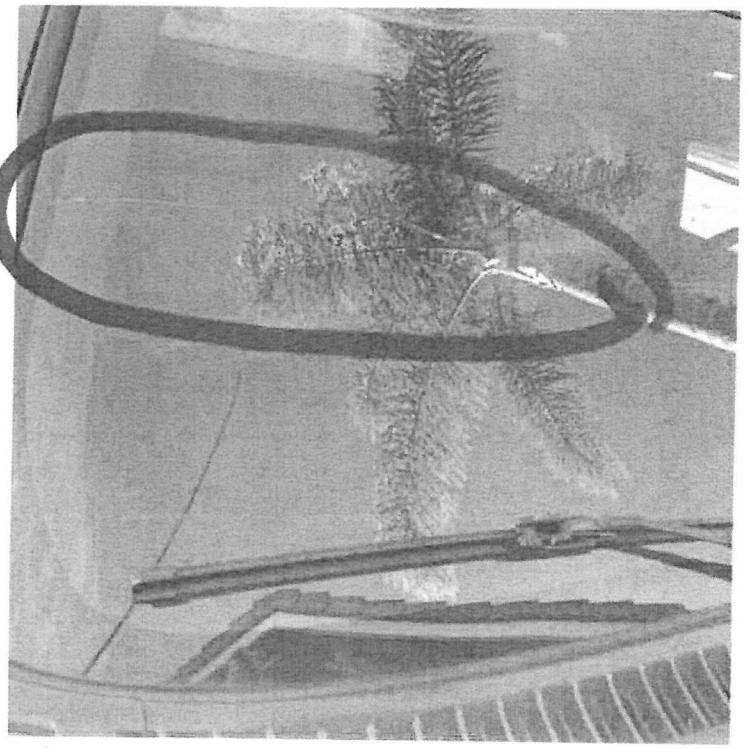
Date: 04/07/2022

Signature of Claimant

Erika Nadigal
Printed name of person signing above







STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph Hughes, City Manager

PREPARED BY: Betty Hughes, MMC, City Clerk

REVIEWED BY: Chuck Dantuono, Director of Administrator Services/City Treasurer
Shawna Bryant, George Hills Company, Claims Adjusters

SUBJECT: Claim Consideration – Alejandro Vara Jr.

RECOMMENDATION: George Hills Company recommends the City Council reject the claim.

BACKGROUND: The Claim was received in the City Clerk's Office on April 14, 2022. It was then sent to the City's claim adjuster, George Hills Company, who is recommending the claim be rejected.

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Approved _____ Motion _____ Second _____ Agenda Item No. 6

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

City Clerk

City Manager

GEORGE HILLS
Our minds over your matters.

April 15, 2022

Betty Hughes
City of Highland

RE:		
	Client:	City of Highland
	Claim Number:	GHC0042875
	Date of Loss:	03/17/2022
	Claimant:	Alejandro Vara

Dear Ms. Hughes:

We have reviewed the above captioned claim and request that you take the action indicated below:

- **Please issue a standard rejection to commence the statute of limitations.**

Please provide us with a copy of the notice once sent.

Should you have any questions, please feel free to contact the undersigned.

Kindest Regards,
George Hills Company, Inc.

Shawna Bryant

Shawna Bryant
Sr. Claims Adjuster
Direct Dial: (916) 859-4800
Email: Shawna.bryant@georgehills.com

City of
HIGHLAND
Inc. 1987

April 14, 2022

Dana Calkins, PECP
Claims Adjuster
Rancho Cordova Office
PO Box 278
Rancho Cordova, CA 95741

Re: Claimant(s): Alejandro Vara Jr.
Incident Date: March 17, 2022

Dear Dana:

Enclosed is a copy of a Claim received and filed in the Office of the City Clerk on April 14, 2022, on behalf of the above referenced claimant(s). Please review and advise this office on the appropriate action to be taken. This item will be tentatively scheduled for the City Council regular meeting of Tuesday, May 10, 2022, pending your recommendation.

If you have any questions, please contact Chuck Dantuono at (909) 864-6861, ext. 224 or myself at ext. 226.

Sincerely,

Betty Hughes

Betty Hughes, MMC
City Clerk

cc: Joseph Hughes, City Manager
Chuck Dantuono, Director of Administrative Services
Maricela Marroquin, City Attorney

laims/george hills letters/gh vara ltr.docx

Mayor Larry McCallon | **Mayor Pro Tem** Penny Lilburn | **City Council** Jesse Chavez | **City Council** Anaeli Solano | **City Council** John P. Timmer | **City Manager** Joseph A. Hughes

27215 Base Line • Highland, CA 92346
Tel: 909.864.6861 • Fax: 909.862.3180 • www.cityofhighland.org

RECEIVED
APR 14 2022
CITY OF HIGHLAND

Do not write in this space.
For office use only:

Received: _____

By: L. Nock

☐ Mail ☒ In person

CLAIM AGAINST THE CITY OF HIGHLAND
(For damages to persons or personal property)

A claim must be filed with the City Clerk within 180 days after which the incident or event occurred. Be sure your claim is against the City of Highland and not another public entity. Where space is insufficient, please use additional paper and identify information by paragraph number. Completed claims must be mailed or delivered to:

CITY CLERK, CITY OF HIGHLAND
27215 BASE LINE
HIGHLAND CA 92346
(909) 864-6861, ext. 226

WARNING: IT IS A CRIMINAL OFFENSE TO FILE A FALSE CLAIM, PENAL CODE S72; INSURANCE CODE S556.1.

NOTICE: PER GOVERNMENT CODE SECTION 910.4, THIS FORM MUST BE USED IN ORDER TO COMPLY WITH SECTIONS 910 AND 910.2 OF THE GOVERNMENT CODE.

TO THE HONORABLE MAYOR AND CITY COUNCIL OF THE CITY OF HIGHLAND:

The undersigned respectfully submits the following claim and information relative to damage to persons and/or personal property:

1. Name of Claimant Alejandro Vara Jr

   a. Complete Address of Claimant, including City, State and Zip Code:
   29109 Pepper Tree Ct.
   Highland, Ca 92346

   b. Phone Number (909) 913-7363

   c. Date of Birth Jan. 21, 1971

d. Driver's License/State Identification Card Number:

—

Issued by which State: CA

✓ Driver's License ____ Identification Card

Expiration Date: 1/2024

2. Name, telephone and address to which claimant desires notices to be sent, if other than above:

3. Occurrence or event from which the claim arises:

a. Date of occurrence March 17, 2022

b. Time of occurrence 2 pm

c. Place of occurrence (Exact and specific location)

Boulder Ave (near Eucalptus Ave)

d. How and under what circumstances did damage or injury occur? Specify the particular occurrence, event, act or omission you claim caused the injury or damage (use additional paper if necessary).

Driving on loose gravel. Hit my windsheild. Cracked my window

e. What particular action by the City, or its employees, caused the alleged damage or injury?

Road was under repair.

4. A general description of the indebtedness, obligation, injury, damage or loss incurred so far as it may be known at the time of presentation of the claim. If there were no injuries, state "no injuries".

Will cost $480 to replace windshield

5. Give the name(s) of the City employee(s) causing the damage or injury:

N/A

6. Name and address of any other person injured:

N/A

7. Name and address of the owner of any damaged property:

Alejandro Vara Jr.
Suburban windshield

8. Damages Claimed:

a. Amount claimed as of this date: $ 48.0.00

b. Estimate amount of future costs: $ —

c. Total amount claimed: $ 480.00

d. Basis for computation of amounts claimed. **Include copies of all bills, invoices, estimates, etc.**:

9. Names and addresses of all witnesses, hospitals, doctors, etc.

a. _____

b. _____

c. _____

d. _____

e. _____

10. Any additional information which might be helpful in considering this claim:

Driving N on Boulder. Loose gravel hit my car windshield. Road was being or in the process of being repaved.

WARNING: IT IS A CRIMINAL OFFENSE TO FILE A FALSE CLAIM, PENAL CODE S72; INSURANCE CODE S556.1.

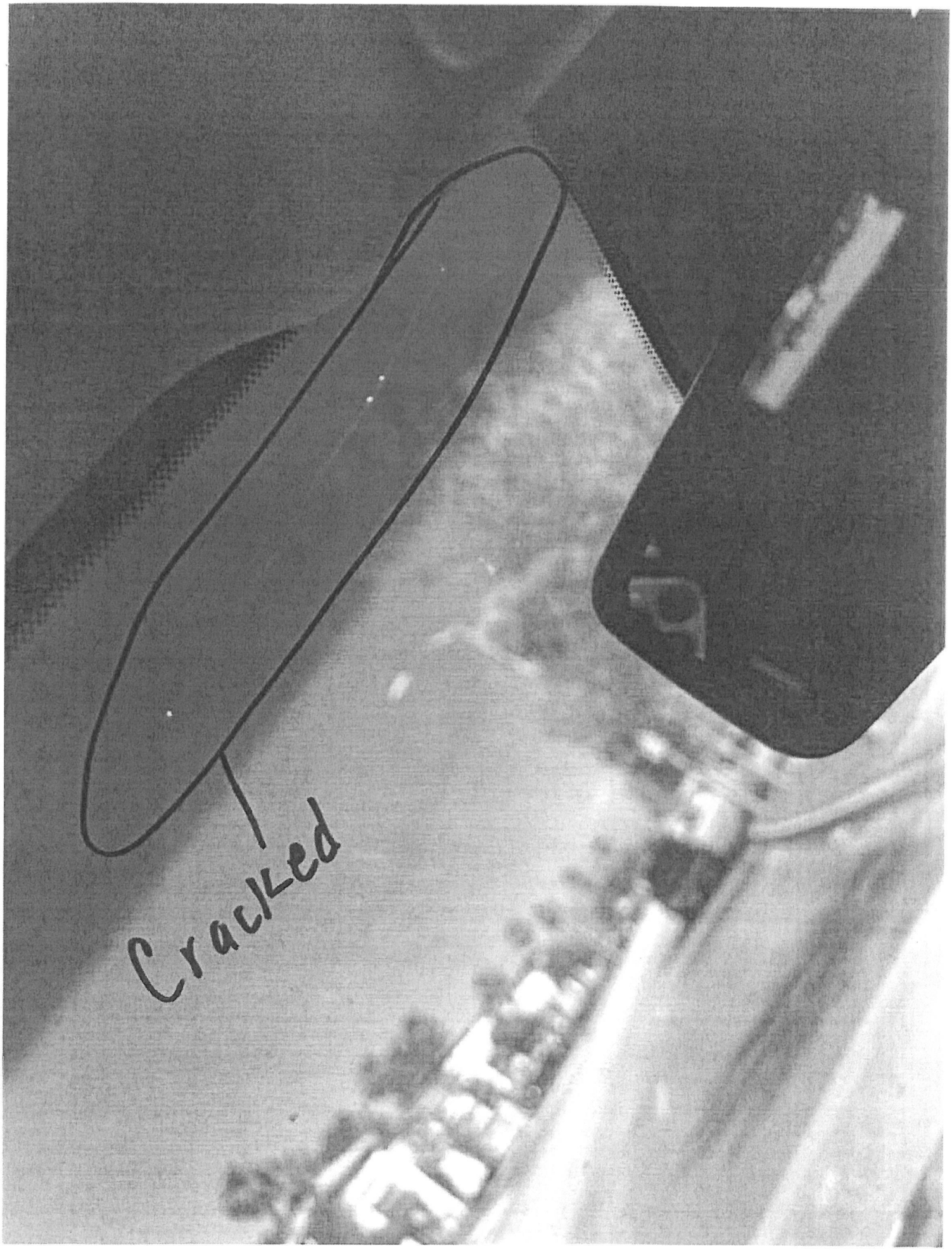
I have read the matters and statements made in the above claim and I know the same to be true of my own knowledge, except as to those matters stated upon information or belief as to such matters I believe the same to be true. I certify under penalty of perjury that the foregoing is true and correct.

Signed at: N/A Highland, CA
City and State

Date: 4-14-22

[signature]
Signature of Claimant

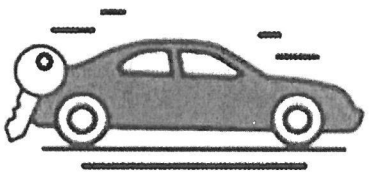
Alex Vara
Printed name of person signing above


Cracked

Safelite AutoGlass

See you tomorrow!

Just a reminder to drop off your vehicle by 9:30 AM on Monday, Mar 28, 2022 at **560 NEVADA ST., REDLANDS, CA 92373**. **Your balance due is $485.14.**



Drop & Go™ instructions

1. Park your vehicle in an open parking space by **9:30 AM**.

2. Leave your key in the key drop located near the front entrance and go about your day.

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

REVIEWED BY: Carlos Zamano, Public Works Director/City Engineer CZ

PREPARED BY: Melissa Morgan, Public Services Manager

SUBJECT: Street and Drainage Maintenance District 96-1
Annual Report (Fiscal Year 2022/23)

RECOMMENDATION: (1) Adopt Resolution 2022-___ giving preliminary approval of the Annual Report; and

(2) Adopt Resolution 2022-___ setting June 14, 2022 as the date of the protest hearing.

FISCAL IMPACT: Assessment rates for Zones 3, 5, 6, 9, 10 and 13 are proposed to be increased the allowable five percent (5%) for Fiscal Year 2022/23. All other existing zones will remain at their current assessment rate.

PUBLIC NOTICE: Public notice is not required prior to the City Council taking action on this matter. However, the Agenda was posted at the three (3) locations within the City, as required by Council Resolution, and on the City's Website.

BACKGROUND: The City's Street Maintenance District 96-1 was established in July, 1996 pursuant to the Benefit Assessment Act of 1982. It was expanded in 1999 to include street and drainage maintenance and renamed as Street and Drainage Maintenance District 96-1. The District will consist of twenty zones in fiscal year 2022/23. The District provides for the continued maintenance and future rehabilitation of street and drainage facilities within the benefit zones for the constructed improvements. Maintenance may include, but is not limited to, all of the following: the upkeep, repair, removal or replacement of all or any part of the specified improvements. This shall also include material, vehicle, equipment, capital improvements and administrative costs associated with the annual administration and operation of the District.

Approved _____	Motion _____	Second _____	Agenda Item No. 7
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		

B Hugl
City Clerk

City Manager

On March 8, 2022 the City Council adopted Resolution No. 2022-010, which directed the Engineer of Work to make and file with the City Clerk the 2021/22 Report that is attached hereto as Attachment 1. The proposed Resolution, attached hereto as Attachment 2, gives preliminary approval of the Engineer's Report. The proposed Resolution, attached hereto as Attachment 3, sets the Protest Hearing for the regularly scheduled City Council meeting on June 14, 2022.

Attachment:
1) Street and Maintenance District No. 96-1 2022/23 Engineer's Report
2) Resolution No. 2022-___ giving preliminary approval of the Annual Report.
3) Resolution No. 2022-___ setting Protest Hearing for June 14, 2022.

Attachment 1

CITY OF HIGHLAND

ENGINEER'S REPORT
FISCAL YEAR 2022-23
STREET AND DRAINAGE MAINTENANCE
DISTRICT NO. 96-1
SAN BERNARDINO COUNTY, CALIFORNIA

May 10, 2022

PREPARED BY

Harris & Associates

22 Executive Park, Suite 200
Irvine, CA 92614
www.weareharris.com

City of Highland

Street and Drainage Maintenance District No. 96-1

CITY COUNCIL

Larry McCallon, Mayor

Penny Lilburn, Mayor Pro Tem

Jesse Chavez, Council Member

Anaeli Solano, Council Member

John P. Timmer, Council Member

CITY STAFF

Joe Hughes, City Manager

Carlos Zamano, Public Works Director

Melissa Morgan, Public Services Manager

HARRIS & ASSOCIATES

Alison Bouley, P.E., Assessment Engineer

Chris Thomas, Project Manager

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ENGINEER'S CERTIFICATION

AGENCY: **THE CITY OF HIGHLAND**

PROJECT: **STREET AND DRAINAGE MAINTENANCE DISTRICT NO. 96-1**

TO: **THE CITY COUNCIL OF THE**
CITY OF HIGHLAND
STATE OF CALIFORNIA

ENGINEER'S REPORT FOR FISCAL YEAR 2022-23

WHEREAS, the City Council of the City of Highland (the "City"), State of California, under the Benefit Assessment District Act of 1982 (the "1982 Act") established "Street and Drainage Maintenance District No. 96-1, (hereafter referred to as "the District"); and

WHEREAS, Harris & Associates has been directed to prepare and file an Annual Report. The purpose of the proposed assessment covered in this Annual Report is to levy assessments for the existing District for Fiscal Year 2022-23; and

NOW THEREFORE, the following assessment is proposed to be authorized in order to pay the estimated costs of maintenance, operation and servicing of the improvements to be paid by the assessable real property within the boundaries of the District in proportion to the special benefit received.

SUMMARY OF ASSESSMENT

	Fiscal Year 2022-23 As Preliminary Approved	Fiscal Year 2022-23 As Confirmed by Council
Maintenance and Servicing	$18,185	
Incidental Costs	$10,875	
Estimated Total Costs and Expenses	$29,060	
Total Assessments to be levied	$43,909	
Estimated Total Fund Balance 7/1/22	$552,954	
Estimated Total Fund Balance 6/30/23	$567,803	

(Amounts may be off by slightly for rounding)

In making the assessments contained herein pursuant to the Assessment Law:

1. I identified all parcels which will have a special benefit conferred upon them from the improvements described in Part II to this Annual Report (the "Specially Benefited Parcels"). For particulars as to the identification of said parcels, reference is made to the Assessment Diagram, a copy of which is included in Appendix A of this Report.

2. I have assessed the costs and expenses of the improvements upon the Specially Benefited Parcels. In making such assessment:

    a. The proportionate special benefit derived by each Specially Benefited Parcel from the improvements was determined in relationship to the entirety of the maintenance costs of the improvements;

    b. No assessment has been imposed on any Specially Benefited Parcel which exceeds the reasonable cost of the proportional special benefit conferred on such parcel from the improvements; and

    c. Assessment rates for Zone 3, 5, 6, 9, 10 and 13 were increased by 5% for Fiscal Year 2022-23, pursuant to the ballots approved by the property owners at the time of annexation to the District. All other assessment rates and conditions have not changed from the previous year.

    d. Any general benefits from the improvements have been separated from the special benefits and only special benefits have been assessed.

I, the undersigned, respectfully submit the enclosed Annual Report and, to the best of my knowledge, information and belief, the Report, Assessment Diagram, and the Assessments herein have been prepared and computed in accordance with the order of the City Council of the City of Highland and the assessment law.

DATED: May 10, 2022

Harris & Associates

REGISTERED PROFESSIONAL ENGINEER
ALISON M. BOULEY
NO. C61383
CIVIL
STATE OF CALIFORNIA

Alison Bouley, P.E., Assessment Engineer
R.C.E. No. C61383
Engineer of Work
State of California

PART I – OVERVIEW

Background of District

The City of Highland Street and Drainage Maintenance District No. 96-1 was formed in 1996 to provide a dedicated source of funding for the maintenance of various street and drainage facilities within development projects in the City. New developments within the City have been required to annex into the District as a condition of approval. The assessments and methods of apportionment described in this Report utilize commonly accepted assessment engineering practices and have been calculated and proportionately spread to each parcel based on the special benefits received as approved by the City Council at the time the District was formed or parcels were annexed to the District. There are a total of 20 zones of benefit within the District. The last zone, Zone 20, was created September 29, 2021.

Reason for Proposed Assessment

Approval of the proposed assessment covered by this Engineer's Report will generate the revenue necessary to:

A. Provide for the continued maintenance and future rehabilitation of street and drainage facilities within the zones of benefit for the improvements described in Section 3.1. Maintenance may include but is not limited to, all of the following: the upkeep, repair, removal or replacement of all or any part of the specified improvements. This shall also include material, vehicle, equipment, capital improvements and administrative costs associated with the annual administration and operation of the District.

B. Zones 2 through 19 include a 5% annual cost of living inflator pursuant to the ballot approved by the property owner. Each year the assessments may be increased a maximum of 5% if approved by City Council.

C. Zone 20 was annexed to Street and Drainage Maintenance District No. 96-1 for Fiscal Year 2022-23, pursuant to the ballot approved by the property owner. Each year the assessments may be increased a maximum of 5% if approved by City Council.

PART II – PLANS AND SPECIFICATIONS

The District provides for the continued administration, maintenance, operations, and servicing of various improvements located within the public right-of-way and dedicated easements within the boundaries of the District.

Maintenance means the furnishing of services and materials for the ordinary and usual maintenance and servicing including repair, removal or replacement of all or part of the streets, drainage facilities, roads and highways. Servicing means the furnishing of utilities such as water or electric current or energy or gas for the upkeep of the drainage facilities and road surface.

The plans and specifications for the improvements are on file in the Office of the City Engineer of the City of Highland.

Descriptions of the Boundaries of the District

The facilities, which have been constructed within the Street and Drainage Maintenance District No. 96-1 boundaries, and those which shall be subsequently constructed, will be operated, maintained and serviced as generally described as follows:

Zone 1- Street Improvements - consist of the maintenance and servicing of streets, roads and highways, including but not limited to pavement repair and rehabilitation, restriping, slurry sealing, street sweeping, personnel, electrical energy, utilities such as water, materials, contractual services and other items necessary for the satisfactory operation of the services described as follows:

> Surface repair and replacement as needed within the emergency access road between Base Line and Tract 15663; vandalism abatement and gate repair and replacement.

Zone 2 Storm Drainage Improvements - consists of the maintenance of an open earth channel and a 54" RCP storm drain system which provides flood control protection for Tract 14326, and all storm drain pipes and catch basins within the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 3 Storm Drainage Improvements - consists of the maintenance of an open earth channel, 24" storm drain and catch basins located within the zone along Boulder Avenue south of Base Line constructed by Walgreen's Pharmacy, which provide flood control protection for the parcels. All of these facilities protect the parcels within the zone from flood damage.

Zone 4 Street Improvements - consist of the maintenance and servicing of streets, roads and highways, including but not limited to pavement repair and rehabilitation, restriping, slurry sealing, street sweeping,

personnel, electrical energy, utilities such as water, materials, contractual services and other items necessary for the satisfactory operation of the services described as follows:

> Surface repair and replacement as needed within the alley between Carriage Hill Drive and Coachman Lane.

Zone 5 Storm Drainage Improvements - consists of the maintenance of a Portland concrete channel storm drain swale constructed by Tract No. 15375, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 6 Storm Drainage Improvements - consists of the maintenance of a 72" storm drain along Sycamore and catch basins on Streater, which provide flood control protection for Tract 15969 and 15969-1. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 7 Street Improvements - consist of the maintenance and servicing of streets, roads and highways, including but not limited to pavement repair and rehabilitation, restriping, slurry sealing, street sweeping, personnel, electrical energy, utilities such as water, materials, contractual services and other items necessary for the satisfactory operation of the services described as follows:

> Surface repair and replacement as needed within the connector road between Boulder Avenue and Stoney Creek Drive.

Zone 8 Storm Drainage Improvements - consists of the maintenance of a 27" storm drain along Marshall Court from Bruce Street to Base Line, including catch basins, manholes and other appurtenant facilities, which provide flood control protection for Tract 16404. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 9 Storm Drainage Improvements - consists of the maintenance of a 36" storm drain along Highland Avenue, east of City Creek, including catch basins, manholes and other appurtenant facilities constructed by Tract No. 14757, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 10 Storm Drainage Improvements - consists of the maintenance of a 24" storm drain, including catch basins, manholes and other appurtenant facilities, constructed by Tract No. 16607, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 11 Storm Drainage Improvements - consists of the maintenance of a 18", 24" 42" and 48" storm drain, including catch basins, manholes, Portland concrete channels and other appurtenant facilities, constructed by Tract No. 15960, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 12 Storm Drainage Improvements - consists of the maintenance of a 24", 36", 42", 48" and 60" storm drain, including catch basins, manholes, Portland concrete channels and other appurtenant facilities, constructed by Tract No. 16914, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 13 Storm Drainage Improvements - consists of the maintenance of a 18" storm drain, including catch basins, constructed by Tract No. 17590, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 14 Storm Drainage Improvements - consists of the maintenance of a 18", 24", 36", 48", and 54" storm drain, including catch basins, manholes, Portland concrete channels and other appurtenant facilities, constructed by Tract No. 17263, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 15 Storm Drainage Improvements - consists of the maintenance of a 24" storm drain, including catch basins, manholes, and other appurtenant facilities, constructed by Tract No. 18199, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 16 Storm Drainage Improvements - consists of the maintenance of a 18", 30" and 36" storm drain, including catch basins, constructed for San Manuel Village, which provides flood control protection for the project. All of these facilities protect the improvement within parcels 1200-081-01-0000 and 1200-081-03-0000 from flood damage.

Zone 17 Storm Drainage Improvements - consists of the maintenance of a the storm drain network within Tract 18677, including pipes, catch basins, manholes, and other appurtenant facilities, constructed by Tract No. 18677, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 18 Storm Drainage Improvements - consists of the maintenance of a the storm drain network within Tract 17682, including pipes, catch basins, manholes, and other appurtenant facilities, constructed by Tract No. 17682, which provides flood control protection for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 19 Storm Drainage Improvements - consists of the maintenance of the storm drain network within Tracts 18935 and 16745, including pipes, catch basins, manholes, water quality compliance facilities and other appurtenant facilities, constructed by Tract Nos. 18935 and 16745, which provides flood control protection and water quality compliance for the tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Zone 20 Storm Drainage Improvements - consists of the maintenance of a storm drain system constructed on Parcel map 19824, consisting of approximately 500LF of 24" storm drain pipe. The system protects the improvement within parcel 1201-361-28-0000 from flood damage.

PART III – COST ESTIMATE

The estimated costs of administration, maintenance, operations, and servicing the improvements as described in the Plans and Specifications are summarized below. Each year, as part of the assessment district levy calculation process, the costs and expenses are reviewed and the annual costs are projected for the following Fiscal Year. The following operation, maintenance and servicing costs for Fiscal Year 2022-23 are proposed to be included in the Street and Drainage Maintenance District No. 96-1.

District Budget

Budgets for Fiscal Year 2022-23 are shown on the following pages.

Operation and Maintenance Budget	Total All Zones	Zone 1 Street Maint.	Zone 2 Storm Drain Maint.	Zone 3 Storm Drain Maint.	Zone 4 Street Maint.	Zone 5 Storm Drain Maint.	Zone 6 Storm Drain Maint.	Zone 7 Street Maint.	Zone 8 Storm Drain Maint.	Zone 9 Storm Drain Maint.
DIRECT COSTS										
Maintenance & Servicing										
Access Surfacing	$ 225	$ 225	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Vandalism Abatement	$ 60	$ 60	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Gate Repair & Replacement	$ 500	$ 500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Maintenance	$ 17,400	$	$ 6,000	$ 200	$ 200	$ 800	$ 500	$ 200	$ 250	$ 200
Capital Rehabilitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Subtotal	**$ 18,185**	**$ 785**	**$ 6,000**	**$ 200**	**$ 200**	**$ 800**	**$ 500**	**$ 200**	**$ 250**	**$ 200**
INCIDENTAL COSTS										
City Administration	$ 8,000	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400
Assessment Engineering	$ 2,100	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105
Advertising	$ 480	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24
County Administration Fee	$ 295	$ 18	$ 98	$ 1	$ 16	$ 14	$ 12	$ 0	$ 26	$ 14
Subtotal	**$ 10,875**	**$ 547**	**$ 627**	**$ 530**	**$ 545**	**$ 543**	**$ 541**	**$ 529**	**$ 555**	**$ 543**
Total Expenses	**$ 29,060**	**$ 1,332**	**$ 6,627**	**$ 730**	**$ 745**	**$ 1,343**	**$ 1,041**	**$ 729**	**$ 805**	**$ 743**
COLLECTIONS AND CREDITS APPLIED TO LEVY										
Reserve Fund Collection /(Transfer)	$ (14,849)	$ (155)	$ (1,336)	$ 107	$ (756)	$ (28)	$ 306	$ (1,458)	$ (456)	$ (22)
Balance to Levy	$ 43,909	$ 1,487	$ 7,963	$ 622	$ 1,501	$ 1,370	$ 735	$ 2,187	$ 1,262	$ 765
FUND BALANCE SUMMARY										
Estimated Fund Balance (7/1/22)	$ 552,954	$ 32,706	$ 162,549	$ 11,130	$ 24,790	$ 24,539	$ 13,643	$ 28,890	$ 21,073	$ 12,861
Less Rehabilitation Reserve	$ (553,639)	$ (32,195)	$ (160,572)	$ (10,658)	$ (25,175)	$ (23,895)	$ (12,817)	$ (29,983)	$ (21,127)	$ (12,512)
Contibutions/(Transfers)	$ 14,849	$ 155	$ 1,336	$ (107)	$ 756	$ 28	$ (306)	$ 1,458	$ 456	$ 22
Estimated Operating Fund Balance (6/30/23)	$ 14,164	$ 666	$ 3,314	$ 365	$ 372	$ 671	$ 520	$ 365	$ 403	$ 371
Reserve for Rehabilitation (7/1/22)	$ 553,639	$ 32,195	$ 160,572	$ 10,658	$ 25,175	$ 23,895	$ 12,817	$ 29,983	$ 21,127	$ 12,512
Planned Expenditures for Fiscal Year 2022-23	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Estimated Rehab. Fund Balance (6/30/23)	$ 553,639	$ 32,195	$ 160,572	$ 10,658	$ 25,175	$ 23,895	$ 12,817	$ 29,983	$ 21,127	$ 12,512
Total Estimated Reserve Fund Balance (6/30/23)	**$ 567,803**	**$ 32,861**	**$ 163,885**	**$ 11,023**	**$ 25,546**	**$ 24,567**	**$ 13,337**	**$ 30,348**	**$ 21,529**	**$ 12,883**

(Amounts may be off slightly for rounding)

Operation and Maintenance Budget	Zone 10 Storm Drain Maint.	Zone 11 Storm Drain Maint.	Zone 12 Storm Drain Maint.	Zone 13 Storm Drain Maint.	Zone 14 Storm Drain Maint.	Zone 15 Storm Drain Maint.	Zone 16 Storm Drain Maint.	Zone 17 Storm Drain Maint.	Zone 18 Storm Drain Maint.	Zone 19 Storm Drain Maint.	Zone 20 Storm Drain Maint.
DIRECT COSTS											
Maintenance & Servicing											
Access Surfacing	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Vandalism Abatement	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Gate Repair & Replacement	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Maintenance	$ 500	$ 300	$ 250	$ 500	$ 500	$ 100	$ 200	$ 5,000	$ 500	$ 1,000	$ 200
Capital Rehabilitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Subtotal	**$ 500**	**$ 300**	**$ 250**	**$ 500**	**$ 500**	**$ 100**	**$ 200**	**$ 5,000**	**$ 500**	**$ 1,000**	**$ 200**
INCIDENTAL COSTS											
City Administration	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400	$ 400
Assessment Engineering	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105	$ 105
Advertising	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24	$ 24
County Administration Fee	$ 11	$ 5	$ 18	$ 11	$ 8	$ 7	$ 1	$ 1	$ 35	$ -	$ -
Subtotal	**$ 540**	**$ 534**	**$ 547**	**$ 540**	**$ 537**	**$ 536**	**$ 530**	**$ 530**	**$ 564**	**$ 529**	**$ 529**
Total Expenses	**$ 1,040**	**$ 834**	**$ 797**	**$ 1,040**	**$ 1,037**	**$ 636**	**$ 730**	**$ 5,530**	**$ 1,064**	**$ 1,529**	**$ 729**
COLLECTIONS AND CREDITS APPLIED TO LEVY											
Reserve Fund Collection /(Transfer)	$ 324	$ (606)	$ (523)	$ 870	$ (2,284)	$ (1,164)	$ (199)	$ (630)	$ (1,511)	$ (3,171)	$ (2,159)
Balance to Levy	$ 716	$ 1,440	$ 1,320	$ 170	$ 3,320	$ 1,800	$ 928	$ 6,160	$ 2,575	$ 4,700	$ 2,888
FUND BALANCE SUMMARY											
Estimated Fund Balance (7/1/22)	$ 11,760	$ 22,546	$ 19,957	$ 3,677	$ 39,326	$ 24,449	$ 10,218	$ 58,255	$ 14,885	$ 15,700	$ -
Less Rehabilitation Reserve	$ (10,915)	$ (22,736)	$ (20,081)	$ (2,287)	$ (41,091)	$ (25,295)	$ (10,052)	$ (56,121)	$ (15,863)	$ (18,107)	$ (2,159)
Contibutions/(Transfers)	$ (324)	$ 606	$ 523	$ (870)	$ 2,284	$ 1,164	$ 199	$ 630	$ 1,511	$ 3,171	$ 2,159
Estimated Operating Fund Balance (6/30/23)	$ 521	$ 416	$ 399	$ 520	$ 519	$ 318	$ 365	$ 2,764	$ 532	$ 765	$ -
Reserve for Rehabilitation (7/1/22)	$ 10,915	$ 22,736	$ 20,081	$ 2,287	$ 41,091	$ 25,295	$ 10,052	$ 56,121	$ 15,863	$ 18,107	$ 2,159
Planned Expenditures for Fiscal Year 2022-23	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Estimated Rehab. Fund Balance (6/30/23)	$ 10,915	$ 22,736	$ 20,081	$ 2,287	$ 41,091	$ 25,295	$ 10,052	$ 56,121	$ 15,863	$ 18,107	$ 2,159
Total Estimated Reserve Fund Balance (6/30/23)	**$ 11,436**	**$ 23,152**	**$ 20,480**	**$ 2,807**	**$ 41,610**	**$ 25,613**	**$ 10,417**	**$ 58,885**	**$ 16,396**	**$ 18,871**	**$ 2,159**

(Amounts may be off slightly for rounding)

Assessment per Parcel

The maximum allowable assessment per equivalent dwelling unit (EDU) listed in the District budget is based on the estimated maintenance and services costs for Fiscal Year 2022-23. Each year, prior to the assessments being placed on the tax roll, the City will review the budget and determine the amount needed to maintain the improvements for the upcoming Fiscal Year. The actual assessment per EDU will be based on the total amount of funds needed to maintain the improvements in a satisfactory condition. The actual annual assessment amount may be lower than the maximum allowable assessment.

Zone 1 Street Maintenance

For Fiscal Year 2022-23, there are 61 parcels in Zone 1. Sixty residential parcels will be assessed $21.08 per parcel pursuant to the provisions of Part IV of this report. The remainder parcel, Assessor Parcel Number 1201-051-17, will be assessed $222.50.

Zone 2 Storm Drain Maintenance

Zone 2 is referenced by Tract 14326 - Storm Drain Plans. 325 residential parcels will be assessed $24.50 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 3 Storm Drain Maintenance

Zone 3 consists of 2 parcels 1201-131-05 (Walgreen's) and 1201-131-04 (KFC, Taco Bell). The two non-residential parcels will be assessed $311.17 per parcel pursuant to the provision of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 4 Street Maintenance

For Fiscal Year 2022-23, there are 53 residential parcels in Zone 4. 16 parcels will be assessed $8.05 per parcel, 32 parcels will be assessed $32.20 per parcel and 5 parcels will be assessed $68.43 per parcel pursuant to the provisions of Part IV of this report and each parcel may be increased by a maximum of 5% per year.

Zone 5 Storm Drain Maintenance

Zone 5 is referenced by Tract 15375 - Storm Drain Plans. The 46 residential parcels will be assessed $29.79 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 6 Storm Drain Maintenance

Zone 6 is referenced by Tract 15969 and Tract 15969-1 - Storm Drain Plans. The 39 residential parcels will be assessed $18.84 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 7 Street Maintenance

For Fiscal Year 2022-23, there are 2 parcels in Zone 7. The commercial parcels will be assessed $2.62 per frontage foot of each parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 8 Storm Drain Maintenance

Zone 8 is referenced by Tract 16404 - Storm Drain Plans. The 87 residential parcels will be assessed $14.50 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 9 Storm Drain Maintenance

Zone 9 is referenced by Tract 14757 - Storm Drain Plans. The 47 residential parcels will be assessed $16.28 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 10 Storm Drain Maintenance

Zone 10 is referenced by Tract 16607 - Storm Drain Plans. The 38 residential parcels will be assessed $18.84 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 11 Storm Drain Maintenance

Zone 11 is referenced by Tract 15960 - Storm Drain Plans. The 16 residential parcels will be assessed $90.00 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 12 Storm Drain Maintenance

Zone 12 is referenced by Tract 16914 - Storm Drain Plans. The 60 residential parcels will be assessed $22.00 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 13 Storm Drain Maintenance

Zone 13 is referenced by Tract 17590 - Storm Drain Plans. The 9 residential parcels will be assessed $18.84 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 14 Storm Drain Maintenance

Zone 14 is referenced by Tract 17263 - Storm Drain Plans. The 25 residential parcels will be assessed $132.80 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 15 Storm Drain Maintenance

Zone 15 is referenced by Tract 18199 - Storm Drain Plans. The 24 residential parcels will be assessed $75.00 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 16 Storm Drain Maintenance

Zone 16 consists of 1 parcel, APN 1200-081-05. The parcel will be assessed $76.61 per acre pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 17 Storm Drain Maintenance

Zone 17 is referenced by Tract 18677 – The 35 residential parcels will be assessed $176.00 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 18 Storm Drain Maintenance

Zone 18 is referenced by Tract 17682 – The 118 residential parcels will be assessed $21.82 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 19 Storm Drain Maintenance

Zone 19 is referenced by Tracts 18935 and 16745 – The 80 residential parcels will be assessed $58.75 per parcel pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

Zone 20 Storm Drain Maintenance

Zone 20 consists of 1 parcel, APN 1201-361-28. The parcel will be assessed $2,888 pursuant to the provisions of Part IV of this report and may be increased by a maximum of 5% per year.

PART IV – METHOD OF ASSESSMENT

General

Pursuant to the 1982 Act and Article XIIID, all parcels that receive a special benefit conferred upon them as a result of the maintenance and operation of improvements and services shall be identified, and the proportionate special benefit derived by each identified parcel shall be determined in relationship to the entire costs of the maintenance and operation of improvements. Chapter 6.4, Division 2, Title 5, of the Government Code, the Benefit Assessment Act of 1982, permits the establishment of assessment districts by Cities for the purpose of providing certain public improvements that include street and flood control facility maintenance.

Section 54711 of the Benefit Assessment Act of 1982 requires that maintenance assessments be levied according to benefit rather than according to assessed value. This Section states:

a. No benefit assessment shall be levied pursuant to this chapter unless it meets all of the following requirements:

    1. The amount of the assessment imposed on any parcel of property shall be related to the benefit to the parcel which will be derived from the provision of the service. Except as provided in subdivision (d) or (e) of Section 54715, in the case of a benefit assessment for flood control services, the benefit must be determined on the basis of the proportionate storm water runoff from each parcel. In the case of an assessment for the maintenance of streets, roads, or highways, the benefit shall be in proportion to the estimated traffic volume to be generated by each parcel assessed, or by any other reasonable basis as determined by the legislative body.

    2. The annual aggregate amount of the assessment shall not exceed the estimated annual cost of providing the service.

    3. The revenue derived from the assessment shall not be used to pay the cost of any service other than the service for which the assessment was levied.

b. This section does not limit or prohibit the levy or collection of any other fee, charge, or tax for the provision of services, except that a maintenance district formed pursuant to Chapter 7 (commencing with Section 1550) of Division 2 of the Streets and Highways Code shall impose an assessment pursuant to this chapter only as an alternative to imposing a property tax for the provision of street lighting services.

The determination of whether or not a lot or parcel will benefit from the improvements shall be made pursuant to the Improvement Act of 1911 (Division 7 (commencing with Section 5000) [of the Streets and Highways Code, State of California]).

The 1982 Act also permits the designation of zones of benefit within any individual assessment district.

Article XIIID, Section 4(a) of the California Constitution limits the amount of any assessment to the proportional special benefit conferred on the property. Article XIIID also provides that publicly owned properties must be assessed unless there is clear and convincing evidence that those properties receive no special benefit from the assessment. Exempted from the assessment would be the areas of public streets, public avenues, public lanes, public roads, public drives, public courts, public alleys, public easements and rights-of-ways, public greenbelts and public parkways.

The net amount to be assessed may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels. Proposition 218, approved by the voters in November 1996, requires the City to separate general benefit from special benefit, whereas only special benefit is assessed.

The costs for the operation, maintenance and servicing of the improvements maintained for each zone are apportioned in accordance with the methodology which was established by the City Council upon formation of the District.

Special Benefit

The maintenance and operation of drainage, flood control, and streets within the District are for the benefit of the properties within the District, and as such confer a special and direct benefit to parcels within the District by:

- allowing individual parcels to be developed and used to their fullest extent by ensuring adequate drainage and vehicular access which is essential to the use, of those properties, and
- improving the livability, appearance, and desirability for properties within the boundaries of the District, and
- ensuring that improvements do not reach a state of deterioration or disrepair so as to be materially detrimental to properties within the District.

The above mentioned items contribute to a specific enhancement of the properties within the District. Since these improvements were installed and are maintained specifically for the properties within the District; only properties within the District receive a special benefit and are assessed for said maintenance.

General Benefit

Although the improvements may include public streets and drainage facilities that connect to similar facilities outside the District boundaries, the construction, maintenance and operation of these improvements are only necessary for the development of properties within the District. As such, these improvements were not required nor necessarily desired by any properties or developments outside the District boundary and any public access or use of the improvements by others is incidental. Therefore, it has been determined that the ongoing maintenance, servicing and operation of the District improvements provide no measurable general benefit to properties outside the District or to the public at large, but clearly provide distinct and special benefits to properties within the District.

Method of Assessment Spread

Method of Assessment – Zone 1

The Street and Drainage Maintenance District was formed to provide a funding source for the maintenance and servicing of streets, roads and highways within the boundaries of Zone 1. The services for Zone 1 Street Maintenance consist of the maintenance of a public easement emergency access road which provides secondary access to those parcels of land within Tract 15663 of the City of Highland.

Zone 1 parcels benefiting from the street maintenance have been determined to be predominantly of the same land use type, specifically, single family detached home sites. Therefore, each home within the tract receives the same benefit from the maintenance of the emergency access street and shall be treated equally in determining the method of spreading assessments.

The assessment costs for the operation, maintenance and servicing of the improvements are apportioned in accordance with the methodology which was established by the City Council upon formation of the District. It was determined at that time that the most equitable method for spreading the estimated benefit received by each parcel in Zone 1 should be based on the Equivalent Dwelling Unit (EDU) method. One parcel within the boundaries of Zone 1 is designated under a commercial land use. Emergency access to the residential parcels is being maintained in the form of a road easement on this developed commercial parcel. This commercial parcel will have use of the road easement for its own business purposes and will also receive emergency vehicle access benefit for which it will be assessed. While the residential parcels will be assessed on the basis of one EDU per parcel, the commercial parcel will be assessed four (4) EDU per acre. The formula is as follows:

Assessable budget ÷ total EDUs = rate per EDU

$1,487.30 ÷ 70.555 EDUs = $21.08 per EDU

Zone 1 Street Maintenance Assessment Calculation							
Landuse	Parcels	Dwelling Units	Acres	EDU Factor	Total EDUs	Rate/EDU	Total Asmt
Residential	60	60		1.00/DU	60.000	$21.08	$1,264.80
Commercial	1		2.638	4.00/Acre	10.555	$21.08	$222.50
	61				70.555		$1,487.30

Method of Assessment - Zone 2

Property in Zone 2, which benefits from storm drain and channel maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain channel and storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 2 Storm Drain Maintenance consists of the cleaning of a storm drain channel and maintenance of a 54" RCP storm drain system surrounding Tract 14326 and the storm drain system including catch basins within Tract 14326 which protects the single family residential parcels in the tract from flood damage.

Method of Assessment - Zone 3

Property in Zone 3, which benefits from storm drain and channel maintenance, has been determined to be of the same commercial land use type. Since parcels within the zone receive the same flood protection benefit from the maintenance of the storm drain channel and storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 3 Storm Drain Maintenance consists of the cleaning of a storm drain channel and maintenance of the storm drain system within the zone along Boulder Avenue south of Base Line, including catch basins within the zone which protect the parcels in the zone from flood damage.

Method of Assessment - Zone 4

The services for Zone 4 Street Maintenance consist of the maintenance of the alley connecting Carriage Hill Drive and Coachman Lane which provides primary and secondary access to those parcels of land within Tracts 7996 and 8718 of the City of Highland.

Zone 4 parcels benefiting from the street maintenance have been determined to be of the same land use type, specifically, single family detached home sites. Certain parcels within the zone receive greater benefits from the maintenance of the improvements than other parcels within the same zone by taking primary or secondary access to their property via the alley. Parcels fronting the medians in Carriage Hill Drive pay 4 times more than those lots not fronting the Carriage Hill Drive medians, and parcels taking primary access to their property via the alley pay 8.5 times more than those lots not fronting on the improvements.

The assessment costs for the operation, maintenance and servicing of the improvements are apportioned in accordance with the above methodology. The formula is as follows:

Assessable budget ÷ total EDUs = rate per EDU

$1,501.35 ÷ 186.50 EDUs = $8.05 per EDU

Zone 4 Street Maintenance Assessment Calculation

Landuse	Parcels	Dwelling Units	EDU Factor	Total EDUs	Rate/EDU	Total Asmt
Fronting Improvements	5	5	8.50/DU	42.50	$8.05	$342.15
Fronting Carriage Hill Drive	32	32	4.00/DU	128.00	$8.05	$1,030.40
No Frontage	16	16	1.00/DU	16.00	$8.05	$128.80
	53			186.50		$1,501.35

Method of Assessment - Zone 5

Property in Zone 5, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain channel and storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 5 Storm Drain Maintenance consists of the maintenance of the storm drain system surrounding Tract 15375 and the storm drain system including catch basins within Tract 15375 which protect the single family residential parcels in the tract from flood damage.

Method of Assessment - Zone 6

Property in Zone 6, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain channel and storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 6 Storm Drain Maintenance consists of the maintenance of a 72" storm drain along Sycamore and catch basins on Streater which serve Tract 15969 and Tract 15969-1 and protect the single family residential parcels in the tract from flood damage.

Method of Assessment - Zone 7

The services for Zone 7 Street Maintenance consist of the maintenance of the connector road between Boulder Avenue and Stoney Creek Drive which provides emergency vehicle access to Zone 7.

Property in Zone 7, which benefits from maintenance of the connector road has been determined to be of commercial land use. Future parcels which annex to Zone 7 will be assessed for their proportionate share of the maintenance costs on a front footage basis since they will benefit equally from the maintenance of the connector road.

Method of Assessment - Zone 8

Property in Zone 8, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain channel and storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 8 Storm Drain Maintenance consists of the maintenance of a 27" storm drain along Marshall Court from Bruce Street to Base Line, including catch basins, manholes and other appurtenant facilities, which provide flood control protection for Tract 16404 and protect the single family residential parcels in the tract from flood damage.

Method of Assessment - Zone 9

Property in Zone 9, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 9 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 14757, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 10

Property in Zone 10, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 10 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 16607, which provides flood control protection for the tract, and all storm drain pipes and

catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 11

Property in Zone 11, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 11 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 15960, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 12

Property in Zone 12, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 12 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 16914, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 13

Property in Zone 13, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 13 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 17590, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 14

Property in Zone 14, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same

flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 14 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 17263, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 15

Property in Zone 15, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 15 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 18199, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 16

Property in Zone 16, which benefits from storm drain maintenance, has been determined to be of the same commercial land use type. Since parcels within the zone receive the same flood protection benefit from the maintenance of the storm drain channel and storm drain system, each parcel shall be treated equally in determining the method of spreading assessments based upon parcel acreage.

Zone 16 Storm Drainage maintenance consists of the cleaning of a storm drain channel and maintenance of the storm drain system within the zone on Boulder Avenue south of Base Line, including catch basins within the zone which protect the parcels in the zone from flood damage.

Method of Assessment - Zone 17

Property in Zone 17, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 17 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 18677, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 18

Property in Zone 18, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 18 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract No. 17682, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 19

Property in Zone 19, which benefits from storm drain maintenance, has been determined to be of the same single family detached home site land use type. Since each home within the tract receives the same flood protection benefit from the maintenance of the storm drain system, each parcel shall be treated equally in determining the method of spreading assessments.

Zone 19 Storm Drainage maintenance consists of the maintenance of a storm drain system constructed by Tract Nos. 18935 and 16745, which provides flood control protection for the tract, and all storm drain pipes and catch basins that serve the Tract. All of these facilities protect the single family residential parcels within the tract from flood damage.

Method of Assessment - Zone 20

Property in Zone 20, which benefits from storm drain maintenance, has been determined to be of the same commercial land use type. Since parcels within the zone receive the same flood protection benefit from the maintenance of the storm drain channel and storm drain system, the current parcel or future parcels shall be treated equally in determining the method of spreading assessments.

Zone 20 Storm Drainage maintenance consists of standard maintenance of the storm drain system on Parcel map 19824 (located on the southwest corner of Greenspot Road and Boulder Avenue). The facilities protect parcels in the zone from flood damage.

APPENDIX A – ASSESSMENT DIAGRAM

The lines and dimensions of each lot or parcel within the District are those lines and dimensions shown on the maps of the County Assessor of the County of San Bernardino, at the time this report was prepared, and are incorporated by reference herein and made part of this report.

APPENDIX B – ASSESSMENT ROLL

The assessment roll is a listing of the proposed assessment for Fiscal Year 2022-23 apportioned to each lot or parcel, as shown on the last equalized roll of the Assessor of the County of San Bernardino. The assessment roll for Fiscal Year 2022-23 is submitted separately and is incorporated by reference and is on file in the City Clerk's office.

Attachment 2

RESOLUTION NO. 2022-___

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HIGHLAND COUNTY OF SAN BERNARDINO, CALIFORNIA GIVING PRELIMINARY APPROVAL OF REPORT FOR STREET AND DRAINAGE MAINTENANCE DISTRICT NO. 96-1 FISCAL YEAR 2022-23

RESOLVED by the City Council of the City of Highland that:

WHEREAS, on the 8th day of March 2022, said City Council did adopt its Resolution No. 2022-010 directing the Engineer of Work to make and file with the City Clerk of said City a report in writing as required by the Benefit Act of 1982; and

WHEREAS, said Engineer of Work has made and filed with the City Clerk of said City a report in writing as called for in said Resolution and under the pursuant to said act, which report has been presented to this Council for consideration; and

WHEREAS, said Council has duly considered said report and each and every part thereof, and finds that each and every part of said report is sufficient, and that no part of said report requires modification in any respect;

NOW THEREFORE, it is ordered as follows:

1. That the Engineer's Estimate of the itemized costs and expenses of said work and of the incidental expenses in connection therewith, contained in said report be, and each of them are hereby, preliminarily approved and confirmed.

2. That the land so identified within said Assessment District as the same existed at the time of passage of said Resolution, is hereby preliminarily approved and confirmed.

3. That the proposed assessment upon the subdivision of land in said Assessment District is in proportion to the estimated benefit to be received by said subdivisions, respectively, from said work and of the incidental expenses thereof, as contained in said report is hereby preliminarily approved and confirmed.

4. That said report shall stand as the Engineer's Report for the purposes of all subsequent proceedings, and pursuant to the proposed district.

APPROVED AND ADOPTED this 10th day of May, 2022.

_____
Larry McCallon
Mayor

ATTEST:

_____
Betty Hughes, MMC
City Clerk

Attachment 3

RESOLUTION NO. 2022-___

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HIGHLAND, CALIFORNIA DECLARING ITS INTENTION TO LEVY AND COLLECT ASSESSMENTS FOR FISCAL 2022-23 IN STREET AND DRAINAGE MAINTENANCE DISTRICT NO. 96-1, AN ASSESSMENT DISTRICT, AND OFFERING A TIME AND PLACE FOR HEARING OBJECTIONS THERETO

The City Council of the City of Highland, pursuant to the provisions of the Benefit Assessment Act of 1982 codified in Government Code Section 54703 et seq. of the State of California, does resolve as follows:

Description of Work

SECTION 1. That the public interest and convenience requires and it is in the intention of the City Council of the City of Highland, California, to order the following work be done, to wit:

1. Maintenance and servicing of streets and drainage structures as authorized by Section 54703 of the Government Code.

2. Any and all work and materials appurtenant thereto or which are necessary or convenient for the maintenance and servicing thereof.

Location of Work

SECTION 2. (1) The Zone 1 described work is to be located within an access easement located between Nye Street and Base Line shown as Emergency Access on the final map of Tract 15663, which is on file in the City Clerk's office. (2) The Zone 2 described work is to be located within roadway, right-of-way or drainage easement within and outside the incorporated boundaries of the City of Highland, along Greenspot Road, Calle Del Rio Street, Mission Street, more particularly described on drainage improvements plans for Tract 14326, 14326-1 and 14326-2, which are on file in the City Engineer's office. (3) The Zone 3 described work is to be located within roadway, right-of-way or drainage easements along Boulder Avenue as shown on drainage improvement plans for the Walgreens Pharmacy located at the southeast corner of Base Line and Boulder Avenue. (4) The Zone 4 described work is to be located within the alley that connects Carriage Hill Drive to Coachman Lane. (5) The Zone 5 described work is to be located within roadway, right-of-way on drainage easements along Santa Ana Canyon Rd., Marianne Way, and Alta Vista Drive. (6) The Zone 6 described work is to be located within roadway, right-of-way or drainage easements

along Streater Drive and Sycamore Drive as shown on the drainage improvement plans for Tract 15969 and 15969-1, which are on file in the City Engineer's office. (7) The Zone 7 described work is to be located within the connector road located between Boulder Avenue and Stoney Creek Drive as shown as "Access Easement A" on Parcel Map 15687 which is on file in the City Clerk's office. (8) The Zone 8 described work is to be located within roadway, right-of-way or drainage easements along Marshall Court. (9) The Zone 9 described work is to be located within roadway, right-of-way or drainage easements as shown on the drainage improvement plans for Tract 14757, which are on file in the City Engineer's office. (10) The Zone 10 described work is to be located within roadway, right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 16607, which are on file in the City Engineer's office. (11) The Zone 11 described work is to be located within roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 15960, which are on file in the City Engineer's office. (12) The Zone 12 described work is to be located within roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 16914. (13) Zone 13 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 17590. (14) Zone 14 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 17263. (15) Zone 15 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 18199, which are on file in the City Engineer's office. (16) Zone 16 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for the commercial development known as San Manual Village, which are on file in the City Engineer's office. (17) Zone 17 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 18677, which are on file in the City Engineer's office. (18) Zone 18 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tract 17682, which are on file in the City Engineer's office. (19) Zone 19 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Tracts 16745 and 18935, which are on file in the City Engineer's office. (20) Zone 20 described work is to be located within the roadway right-of-way, or drainage easements as shown on the drainage improvement plans for Parcel map 19824, which are on file in the City Engineer's office.

Description of Assessment District

SECTION 3. That the contemplated work, in the opinion of said City Council, is of more local than ordinary public benefit, and the said City Council hereby makes the expense of said work chargeable upon a district, which said district is described as follows: (1) Zone 1: All that certain territory of Subdivision Tract 15663 within the City of Highland, and a commercial parcel of land described as the "remainder parcel of Tract 15663,"

recorded in Map Book 260 and Page 79 thru 83, San Bernardino County, (2) Zone 2: all that certain territory of Tentative Tract 14326, 14326-1, and 14326-2, and recorded in Parcel Map Book 160 and Page 26 thru 28 San Bernardino County as Parcel Map No. 13639, (3) Zone 3: all that certain territory described as Parcel 1, Certificate of Compliance No. 99-011, and recorded as Document No. 19990399965, San Bernardino County, (4) Zone 4: all that certain territory of Subdivision Tract 7996 and recorded in Map Book 110, Page 97 thru 98, and Tract 8718 and recorded in Map Book 119 Page 45 thru 47, San Bernardino County, (5) Zone 5: all that certain territory of Subdivision Tract 15375, and recorded in Map Book 282 and Page 73 thru 75, San Bernardino County, (6) Zone 6: all that certain territory of Subdivision Tract 15969 and 15969-1, and recorded in Map Book 281 and Page 95 thru 97, and Map Book 281 and Page 92 thru 94 respectively, (7) Zone 7: Parcels 3,4, and 5 of Parcel Map 15687 and recorded in Parcel Map Book 193, Page 38 thru 39, San Bernardino County, (8) Zone 8: all that certain territory of Subdivision Tract 16404 and recorded in Map Book 297, and Page 4 thru 7 respectively, (9) Zone 9: all that certain territory of Tract 14757 in Map Book 303, Page 5 thru 9; (10) Zone 10: all that certain territory of Tract 16607 in Map Book 307, Pages 25 & 26; (11) Zone 11: all that certain territory of Tentative Subdivision Tract 15960; (12) Zone 12: all that certain territory of Tentative Subdivision Tract 16914. (13) Zone 13: all that certain territory of Tentative Subdivision Tract 17590; (14) Zone 14: all that certain territory of Tentative Subdivision Tract 17263; (15) Zone 15: all that certain territory of Tentative Subdivision Tract 18199; (16) Zone 16: all that certain territory of Assessor's Parcel Number's 1200-081-01-0000 and 1200-081-03-0000; (17) Zone 17: all that certain territory of Tentative Subdivision Tract 18677; (18) Zone 18: all that certain territory of Tract 17682; (19) Zone 19: all that certain territory of Tracts 16745 and 18935. (20) Zone 20: all that certain territory of Parcel map 19824.

Report of the Engineer

SECTION 4. The City Council of said City by Resolution No. 2022-___ has accepted the report of the Engineer of Work, which report indicates the amount of the proposed assessment, the property to be assessed, detailed description of improvements, and the method of assessment. The report titled "Engineer's Report for City of Highland, Street and Drainage District No. 96-1" is on file in the Office of the City Clerk of said City and was prepared for the 2022-23 Fiscal Year in accordance with The Benefit Assessment Act of 1982. Reference to said report is hereby made for all particulars for the amount and extent of the assessments and for the extent of the work.

Collection of Assessments

SECTION 5. The assessment shall be collected at the time and in the same manner as County taxes are collected. The Engineer of Work shall file a report annually with the City Council of said City and said Council will annually conduct public hearings upon

said report as required by law, at which time assessments for the next fiscal year will be determined.

Time and Place of Hearing

SECTION 6. Notice is hereby given that on the 14th day of June 2022, at 6:00 p.m., or as soon thereafter as may be heard, the City Council of the City of Highland will hold a public hearing and any and all persons having any objection to the work or extent of the assessment district, may appear and show cause why said work should not be done or carried out in accordance with this Resolution of Intention.

Due to the COVID-19 pandemic public health orders, which limit in-person public meetings, the public hearing will be held either in the City Hall Donahue Council Chambers, 27215 Base Line, Highland, California, 92346, or in another manner specified in the meeting agenda. Please check the June 14, 2022 City Council agenda once it is posted on the City's website for information as to how to participate in the City Council meeting.

To avoid physical contact, the City strongly encourages you to submit your comments by email in advance to the City Clerk at publiccomment@cityofhighland.org and include "Street and Drainage Maintenance District No. 96-1" in the title. Any written comments received will be included as part of the public record on this matter.

Benefit Act of 1982

SECTION 7. All of the work herein proposed shall be done and carried through in pursuance of the act of the legislature of the State of California designated as the Benefit Act of 1982, being Chapter 6.4, Division 2, Title 5 of the Government Code of the State of California.

Exclusion of Public Property

SECTION 8. All lots or parcels belonging to public agencies shall be omitted from assessments to be made hereafter to cover the costs and expenses of the Work.

Publication of Notice

SECTION 9. Published notice shall be made pursuant to Section 6063 of the Government Code. The publication of notice of hearing shall be completed at least 10 days prior to the date of hearings.

Certification

SECTION 10. The City Clerk shall certify to the adoption of this Resolution.

APPROVED AND ADOPTED this 10th day of May 2022.

_____
Larry McCallon
Mayor

ATTEST:

_____
Betty Hughes, MMC
City Clerk

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

REVIEWED BY: Carlos Zamano, Public Works Director/City Engineer CZ

PREPARED BY: Melissa Morgan, Public Services Manager

SUBJECT: Consolidated Landscape and Lighting District 96-1 Annual Report (Fiscal Year 2022/23)

RECOMMENDATION: (1) Adopt Resolution 2022-___ giving preliminary approval of the Annual Report; and

(2) Adopt Resolution 2022-___ setting June 14, 2022 as the date of the protest hearing.

FISCAL IMPACT: Total proposed amounts for 2022/23 assessment are as follows:

Zone A (Lighting)	$341,269.00
Zone B (Landscape)	471,626.00
Zone C (Trail)	14,450.00
Zone D (Park)	101,827.00
TOTAL	$929,172.00

For FY 2022/23 Zone B will have an estimated budget deficit of $233,480. The Fiscal Years 2021/23, two-year budget has an estimated ending fund deficit of $308,435. The City's share for Park Maintenance in Zone D (Park) is estimated to be $62,128.

PUBLIC NOTICE: Public notice is not required prior to the City Council taking action on this matter. However, the Agenda was posted at the three (3) locations within the City, as required by Council Resolution, and on the City's Website.

Approved _____ Motion _____ Second _____ Agenda Item No. 8

Denied _____ Ayes _____

Noes _____ File No. _____

Continued _____ Abstain _____

Tabled _____ Absent _____

_____ City Clerk

_____ City Manager

The City's Consolidated Landscape and Lighting District 96-1 consists of four zones. They are Zone A (Lighting), Zone B (Landscape), Zone C (Trail) and Zone D (Park). Each zone is further divided into several sub-zones. The revenues and expenditures of each sub-zone are tracked separately so that a separate budget can be prepared, and a separate assessment amount can be projected for each sub-zone.

On March 8, 2022, the City Council adopted Resolution No. 2022-009 which directed the "Engineer of Work" to make and file with the City Clerk the Fiscal Year 2022/23 Annual Report that is attached hereto as Attachment 1. The proposed Resolution, attached hereto as Attachment 2, gives preliminary approval of the Engineer's Report. The proposed Resolution, attached hereto as Attachment 3, sets the Protest Hearing for the regularly scheduled City Council meeting on June 14, 2022.

Zone A (Lighting)

The amount of assessments has been set at the 1993-94 level with no increase for twenty-six consecutive years. It should be noted the City has completed the purchase of the eligible streetlights from Southern California Edison and retrofitted the streetlights to LED lamps.

The 2022/23 annual assessment will continue for another year as follows:

Zone	Land Use	Assessment
Urban		
•	Residential	$23.75
•	Residential Rural	$20.51
•	Non-Residential	$28.86
•	Agricultural	$ 7.71
Rural		
A-5		$ 7.07

Zone B (Landscape)

Zone B (Landscape) will include eighty-four (84) sub-zones in fiscal year 2022/23. Forty-seven (47) sub-zones are currently maintained by the City. Landscaping of thirty-seven (37) sub-zones are being maintained by the property owners.

For fiscal year 2022/23, seventeen (17) sub-zones will remain at their current assessment level, thirty-one (31) sub-zones are proposed to be increased by five percent (5%), thirty-seven (37) sub-zones will have zero assessment. The proposed 5% increase of assessments do not require separate approval of the property owners because the increase is within the percentage of annual adjustment previously approved in the original ballot. It should be noted that in fiscal year 2022/23 there will be a projected budget deficit in the amount of $233,480. The Fiscal Years 2021/23, two-year proposed budget has estimated an ending fund deficit of $308,435. In addition, fifteen (15) sub-zones do not allow for an increase in assessment rate without re-balloting. Under the direction of the Finance subcommittee, Staff is currently exploring options to reduce costs and/or increase the assessments for those fifteen (15) sub-zones that have a negative fund balance.

For comparison purposes, below are the 2019/20, 2020/21, 2021/22 and the proposed 2022/23 assessment:

Zone B	Tract/ Parcel Map	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
B-0	12484	Centex	$31.42 – 45.28	$31.42 – 45.28	$31.42 – 45.28	$31.42 – 45.28
B-1	10102 10102-5	Pulsar	$31.24 – 34.36	$31.24 – 34.36	$31.24 – 34.36	$31.24 – 34.36
B-2	13936 -1-2-3	JM Dev./ Forecast Homes	$30.14 – 33.15	$30.14 – 33.15	$30.14 – 33.15	$30.14 – 33.15
B-3	12474 12474-1	Centex	$7.85 – 8.64	$7.85 – 8.64	$7.85 – 8.64	$7.85 – 8.64
B-4	11181	Sexton	$108.94 – 119.83	$108.94 – 119.83	$108.94 – 119.83	$108.94 – 119.83
B-5	13956	Raleco	$30.90 – 33.99	$30.90 – 33.99	$30.90 – 33.99	$30.90 – 33.99
B-6	14190	Kaufman & Broad	$54.74 – 60.21	$54.74 – 60.21	$54.74 – 60.21	$54.74 – 60.21
B-7	13237	Low	$38.30 – 42.13	$38.30 – 42.13	$38.30 – 42.13	$38.30 – 42.13
B-8	13315	Highland Pointe	$63.61 – 297.05	$63.61 – 297.05	$63.61 – 297.05	$63.61 – 297.05
B-9	PM 12821	Canyon North	$888.75 – 2,103.75	$888.75 – 2,103.75	$888.75 – 2,103.75	$888.75 – 2,103.75

Zone B	Tract/ Parcel Map	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
B-10	14326	SunCal	$46.75 – 50.77	$46.75 – 50.77	$46.75 – 50.77	$46.75 – 50.77
B-11	14398 -1, -2, -3	Kaufman & Broad	$24.78 – 27.26	$24.78 – 27.26	$24.78 – 27.26	$24.78 – 27.26
B-12	PM 14063	Smith's (Food 4 Less)	Zero	Zero	Zero	Zero
B-13	14095, -1	Braemar	$42.30 – 46.53	$42.30 – 46.53	$42.30 – 46.53	$42.30 – 46.53
B-14	Various	East Highlands Ranch	Zero	Zero	Zero	Zero
B-15	10726	Centex	$31.82 – 35.00	$31.82 – 35.00	$31.82 – 35.00	$31.82 – 35.00
B-16	15583 15609	Gardner	$17.87 – 19.65	$17.87 – 19.65	$17.87 – 19.65	$17.87 – 19.65
B-17	7996 8718	Carriage Hills	$48.96 – 195.84	$48.96 – 195.84	$48.96 – 195.84	$48.96 – 195.84
B-18	PM 14475	Arco	Zero	Zero	Zero	Zero
B-19	PM 14615	Beaver	Zero	Zero	Zero	Zero
B-20	15618	Stratham	$128.00 – 140.80	$129.88 – 142.87	$136.37 – 150.00	$143.18 – 157.50
B-21	15788	Gardner	$69.45 – 76.40	$72.92 – 80.21	$76.57 – 84.23	$80.39 – 88.43
B-22	14362	Centex/ SunCal	$24.74 – 27.21	$25.98 – 28.58	$27.28 – 30.01	$28.64 – 31.50
B-23	PM 15119	Landmark	Zero	Zero	Zero	Zero
B-24	15788	Gardner	$4,824	$5,065	$5,320	$5,584
B-25	N/A	San Manuel	$8,040	$8,442	$8,861	$9,296

Zone B	Tract/ Parcel Map	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
B-26	PM 15438	Walgreen's	$4,753	$4,994	$5,242	$5,505
B-27	N/A	McDonald's	Zero	Zero	Zero	Zero
B-28	N/A	Orco Products	Zero	Zero	Zero	Zero
B-29	N/A	Wendy's/ Gardner	$4,530	$4,755	$4,990	$5,236
B-30	15375	Centex	$152.53 – 167.78	$160.16 – 176.18	$168.17 – 184.99	$176.57 – 194.23
B-31	15969 & 15969-1	Harwood Homes	$214.22 – 235.64	$224.93 – 247.42	$236.18 – 259.80	$247.98 – 272.78
B-32	N/A	Universal Storage	Zero	Zero	Zero	Zero
B-33	N/A	Check Cashing	Zero	Zero	Zero	Zero
B-34	16404	Gardner	$79.64 – 87.60	$83.62 – 91.98	$87.80 – 96.58	$92.19 – 101.40
B-35	14757	Highland Orchards	$57.62 – 63.38	$60.50 – 66.55	$63.53 – 69.88	$66.70 – 73.37
B-36	16543	Mountain Shadows	$1,427.07	$1,498.42	$1,573.34	$1,652.00
B-37	16607	Highland Meadows	$166.08 – 182.69	$174.38 – 191.82	$183.10 – 201.41	$192.25 – 211.48
B-38	PM 9112	Pro-Cast Properties	Zero	Zero	Zero	Zero
B-39	15960	Highland Orchards	$319.07 – 350.98	$335.02 – 368.52	$351.77 – 386.95	$369.35 – 406.29
B-40	PM 16788	Valencia Lea Mobile Home	Zero	Zero	Zero	Zero
B-41	16914	Toll Bros.	Zero	Zero	Zero	Zero

Zone B	Tract/ Parcel Map	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
B-42	N/A	Abdon Lucero	Zero	Zero	Zero	Zero
B-43	17590	Gardner	$491.99 – 541.19	$516.59 – 568.25	$542.42 – 596.66	$569.54 – 626.49
B-44	17263	Williams Homes	$701.79 – 771.97	$736.88 – 810.57	$773.72 – 851.09	$812.40 – 893.64
B-45	PM 17957	CVS/Bakers	Zero	Zero	Zero	Zero
B-46	PM 18012	Citicom	Zero	Zero	Zero	Zero
B-47	18199	Gardner	$204.02 – 224.42	$214.22 – 235.64	$224.93 – 247.42	$236.17 – 259.79
B-48	Various	Greenspot Median/Parkways	$71,974	$75,572	$79,331	$83,252
B-49	N/A	Farmer Bros	Zero	Zero	Zero	Zero
B-50	N/A	Fifth Street Medians	Zero	Zero	Zero	Zero
B-51	N/A	Jack-in-the-Box	Zero	Zero	Zero	Zero
B-52	N/A	Jack-in-the-Box Median	Zero	Zero	Zero	Zero
B-53	PM 19025	Valero Gas Station	Zero	Zero	Zero	Zero
B-54	N/A	Baseline Parkways	$12,903	$13,548	$14,226	$14,937
B-55	18677	Williams Homes	$601.68 – 661.85	$631.76 – 694.94	$663.35 – 729.69	$696.51 – 766.17
B-56	18677	Williams Homes	$71.02	$74.57	$78.30	$82.21
B-57	N/A	Dairy Queen Parkway	Zero	Zero	Zero	Zero

Zone B	Tract/ Parcel Map	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
B-58	N/A	Dairy Queen Median	Zero	Zero	Zero	Zero
B-59	N/A	DFI Olive, Inc.	$1,031.89 – 1,135.08	$1,083.48 – 1,191.83	$1,137.65 – 1,251.42	$1,194.53 – 1,313.98
B-60	PM 19376	Family Dollar, Inc.	Zero	Zero	Zero	Zero
B-61	Various	Base Line Town Center Medians	$8,112	$8,518	$8,943	$9,391
B-62	N/A	Jae Kim	Zero	Zero	Zero	Zero
B-63	N/A	Brightwater Medians	$8,194	$8,603	$9,034	$9,485
B-64	N/A	Brightwater Parkway	Zero	Zero	Zero	Zero
B-65	N/A	EVWD Parkway	Zero	Zero	Zero	Zero
B-66	N/A	EVWD Median	Zero	Zero	Zero	Zero
B-67	N/A	Potomac Plaza	Zero	Zero	Zero	Zero
B-68	N/A	Richmond American Parkway	$344.54	$361.77	$379.86	$398.85
B-69	N/A	Richmond American Medians	$51.07	$53.56	$56.24	$59.05
B-70	16745 & 18935	Diversified Pacific	$364.52	$382.75	$401.89	$421.98
B-71	N/A	Am/PM Arco	Zero	Zero	Zero	Zero
B-72	PM 19742	Smart &Final	Zero	Zero	Zero	Zero
B-73	N/A	Real Journey Academies (median)	$3,675	$3,859	$4,052	$4,254

Zone B	Tract/ Parcel Map	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
B-74	N/A	Real Journey Academies (parkway)	Zero	Zero	Zero	Zero
B-75	N/A	Panda Express	Zero	Zero	Zero	Zero
B-76	N/A	East Baseline Medians	$800	$840	$882	$926
B-77	N/A	Jack in the Box	Zero	Zero	Zero	Zero
B-78	N/A	Transition Properties (parkway)	Zero	Zero	Zero	Zero
B-79	N/A	Transition Properties (median)	$11,775	$12,364	$12,364	$12,364
B-80	N/A	Pepitos (median)	Zero	Zero	Zero	Zero
B-81	N/A	Pepitos (parkway)	Zero	Zero	Zero	Zero
B-82	N/A	Smith's Food/Food-4-Less (median)	Zero	Zero	$7,200	$7,560
B-83	N/A	7-11 (parkway)	N/A	N/A	N/A	Zero

Zone C (Trail)

Zone C (Trail) has nine (9) sub-zones. For fiscal year 2022/23, all nine (9) existing annexations are proposed to be increased. The proposed 5% increase of assessments do not require separate approval of the property owners because the increase is within the percentage of annual adjustment previously approved in the original ballot.

Below are the proposed assessments:

Zone C	Tract	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
C-1	14629 14629-1	Centex	$19.20	$20.16	$21.17	$22.23
C-2	15689 15583	Gardner	$14.86	$15.60	$16.38	$17.20
C-3	15374	Centex	$26.60	$27.93	$29.33	$30.80
C-4	15969 15969-01	Harwood Homes	$19.20	$20.16	$21.17	$22.23
C-5	14757	Highland Orchards	$19.20	$20.16	$21.17	$22.23
C-6	15960	Highland Orchards	$47.28	$49.64	$52.12	$54.73
C-7	16914	Toll Bros.	$26.60	$27.93	$29.33	$30.80
C-8	17263	Hidden Creek	$70.92	$74.47	$78.19	$82.10
C-9	16745 & 18935	Diversified Pacific	$16.54	$17.37	$18.24	$19.15

Zone D (Park)

For fiscal year 2022/23, all four (4) existing annexations are proposed to be increased. The proposed 5% increase of the assessment does not require separate approval of the property owners because the increase is within the percentage of annual adjustment previously approved in the original ballot. The City will be responsible for 40% for all 4 sub-zones on behalf of the general public, and residents will be responsible for 60% to account for the special benefit they receive. The City's share for Park Maintenance in Zone D is estimated to be $62,128.

Assessment to individual property owners within Zone D will be as follows:

Zone D	Tract	Developer	2019/20	2020/21	2021/22	Proposed 2022/23
D-0	14629/ 14757	Centex	$73.61	$77.29	$81.15	$85.21
D-1	16404	Gardner	$310.28	$325.79	$342.08	$359.18
D-2	16914	Toll Bros.	$502.33	$527.45	$553.82	$581.51
D-3	18199	Gardner	$701.79	$736.88	$773.72	$812.41

Attachment: 1) Landscape and Lighting District No. 96-1 2022/23 Engineer's Report
2) Resolution No. 2022-___ giving preliminary approval of the Annual Report.
3) Resolution No. 2022-___ setting Protest Hearing for June 14, 2022.

Attachment 1

CITY OF HIGHLAND

ENGINEER'S REPORT
CONSOLIDATED LANDSCAPE AND LIGHTING DISTRICT NO. 96-1
FISCAL YEAR 2022-23
SAN BERNARDINO COUNTY, CALIFORNIA

May 10, 2022

PREPARED BY

Harris & Associates

22 Executive Park, Suite 200
Irvine, CA 92614
www.weareharris.com

City of Highland

Consolidated Landscape and Lighting District No. 96-1

CITY COUNCIL

Larry McCallon, Mayor

Penny Lilburn, Mayor Pro Tem

Jesse Chavez, Council Member

Anaeli Solano, Council Member

John P. Timmer, Council Member

CITY STAFF

Joe Hughes, City Manager

Carlos Zamano, Public Works Director

Melissa Morgan, Public Services Manager

HARRIS & ASSOCIATES

Alison Bouley, P.E., Assessment Engineer

Chris Thomas, Project Manager

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ENGINEER'S CERTIFICATION

AGENCY: **THE CITY OF HIGHLAND**

PROJECT: **CONSOLIDATED LANDSCAPE AND LIGHTING DISTRICT NO. 96-1**

TO: **THE CITY COUNCIL OF THE**
CITY OF HIGHLAND
STATE OF CALIFORNIA

ENGINEER'S REPORT FOR FISCAL YEAR 2022-23

WHEREAS, the City Council of the City of Highland (the "City"), State of California, under the Landscaping and Lighting Act of 1972 (the "1972 Act" or "Assessment Law") established Landscape and Lighting District known and designated as "Consolidated Landscape and Lighting District No. 96-1", (hereafter referred to as "LLD 96-1" or the "District"); and

WHEREAS, Harris & Associates has been directed to prepare and file an Engineer's Report. The purpose of the proposed assessment covered in this Engineer's Report is for the levy of the assessments shown for Fiscal Year 2022-23, and includes the reason for the proposed assessment, identifies the parcels upon which the assessment is proposed for imposition, and presents a basis upon which the assessment is to be calculated.

NOW THEREFORE, the following assessment is proposed to be authorized in order to pay the estimated costs of maintenance, operation and servicing of the improvements to be paid by the assessable real property within the boundaries of the District in proportion to the special benefit received. The following table summarizes the proposed assessment for Fiscal Year 2022-23.

SUMMARY OF ASSESSMENT

	Fiscal Year 2022-23 As Preliminary Approved	Fiscal Year 2022-23 As Confirmed by Council
Zone A - Street Lighting	$341,269	
Zone B - Landscape Maintenance	$471,626	
Zone C - Trail Maintenance	$ 14,450	
Zone D - Park Maintenance	$101,827	
Estimated Total Levy FY 2022-23	**$929,172**	

In making the assessments contained herein pursuant to the Assessment Law:

1. I identified all parcels which will have a special benefit conferred upon them from the improvements described in Part II to this Engineer's Report (the "Specially Benefited Parcels"). For particulars as to the identification of said parcels, reference is made to the Assessment Diagram, a copy of which is included in Appendix A of this Engineer's Report.

2. I have assessed the costs and expenses of the improvements upon the Specially Benefited Parcels. In making such assessment:

    a. The proportionate special benefit derived by each Specially Benefited Parcel from the improvements was determined in relationship to the entirety of the maintenance costs of the improvements;

    b. No assessment has been imposed on any Specially Benefited Parcel which exceeds the reasonable cost of the proportional special benefit conferred on such parcel from the improvements; and

    c. Assessment rates for Zone B-20, B-21, B-22, B-24, B-25, B-26, B-29, B-30, B-31, B-34, B-35, B-36, B-37, B-39, B-43, B-44, B-47, B-48, B-54, B-55, B-56, B-59, B-61, B-63, B-68, B-69, B-70, B-73, B-76 and B-82 were increased by 5% for Fiscal Year 2022-23, pursuant to the ballots approved by the property owners at the time of annexation to the District. All other Zone B assessment rates and conditions have not changed from the previous year.

d. Assessment rates for Zone C-1 through C-9 were increased by 5% for Fiscal Year 2022-23, pursuant to the ballots approved by the property owners at the time of formation of the Community Trail Zone or annexation to the zone.

e. Assessment rates for Zone D-0 through D-3 were increased by 5% for Fiscal Year 2022-23, pursuant to the ballots approved by the property owners at the time of formation of the Park Maintenance Zone or annexation to the zone.

f. Any general benefits from the improvements have been separated from the special benefits and only special benefits have been assessed.

I, the undersigned, respectfully submit the enclosed Engineer's Report and, to the best of my knowledge, information and belief, the Engineer's Report, Assessments, and the Assessment Diagram herein have been prepared and computed in accordance with the order of the City Council of the City of Highland and the Assessment Law.

DATED: May 10, 2022

Harris & Associates

REGISTERED PROFESSIONAL ENGINEER
ALISON M. BOULEY
NO. C61383
CIVIL
STATE OF CALIFORNIA

Alison Bouley, P.E., Assessment Engineer
R.C.E. No. C61383
Engineer of Work
County of San Bernardino
State of California

PART I – OVERVIEW

Background of District

The City of Highland Landscape and Lighting District No. 96-1 was formed in 1996 to provide a dedicated source of funding for the operation and servicing of street lights and the maintenance of landscaping, trails and parks within development projects in the City. New developments within the City have been required to annex to the District as a condition of approval based upon the specific improvements within the project area and the special benefits received by parcels from the improvements. The assessments and methods of apportionment described in this Report utilize commonly accepted assessment engineering practices and have been calculated and proportionately spread to each parcel based on the special benefits received as approved by the City Council at the time the District was formed.

Reason for Proposed Assessment

Approval of the proposed assessment covered by this Engineer's Report will generate the revenue necessary to:

A. Provide for the continued operation, servicing and maintenance of street lighting, landscaping, trails and park facilities within the zones of benefit for the improvements described in Part II. Maintenance may include but is not limited to, all of the following: the upkeep, repair, removal or replacement of all or any part of the specified improvements. Servicing means the furnishing of electric current or energy, gas or other illuminating agent for the public lighting facilities. This shall also include material, vehicle, equipment, capital improvements and administrative costs associated with the annual administration and operation of the District.

B. The district does not include an overall annual cost of living inflator; however specific benefit zones (B-20 through B-83, C-1 through C-9, D-0 through D-3) do allow an annual increase in assessments as approved by the property owners at the time of annexation to the District. Any future increase in assessment in benefit zones which do not have an annual cost of living inflator will require the approval of a majority of the property owners in accordance with the requirements of Article XIIID of the Constitution of the State of California ("Article XIIID") and the Proposition 218 Omnibus Implementation Act.

C. Certain zones are presently established, or will be established, for future maintenance work to be accomplished by the City of Highland should the property owner(s) not perform landscape maintenance to the satisfaction of the City of Highland. The City will levy a $0.00 assessment in those zones where the property owner(s) continues to maintain the improvements at a level acceptable to the City.

PART II – PLANS AND SPECIFICATIONS

Descriptions of the Boundaries of the District

The District provides for the continued administration, maintenance, operations, and servicing of various improvements located within the public right-of-way and dedicated easements within the boundaries of the District including street lighting, landscaping, parks and trails.

The District is located in the City of Highland. The boundaries of the District are generally coterminous with the City Boundaries. In addition, there are four (4) Benefit Zones, Zone A – Lighting which has 5 sub-zones, Zone B – Landscaping which has 83 sub-zones, Zone C – Trails which has 9 sub-zones and Zone D – Parks which has 4 sub-zones.

Descriptions of Improvements and Services

The facilities to be maintained and serviced are more generally described as follows:

Zone A- Lighting

The improvements consist of the installation, operation, maintenance and servicing of street lighting, traffic signals, safety lighting, and appurtenant facilities described as follows:

> *Street, traffic signals and safety lighting improvements are generally described as consisting of poles, fixtures, bulbs, conduits and equipment including guys, anchors, posts and pedestals, metering devices and appurtenant facilities as required to provide lighting in public rights-of-way and public easements within the proposed boundaries of said Assessment District.*

Installation as used herein means the addition or upgrading of street lights and safety lighting.

Maintenance as used herein means the furnishing of services and materials for the ordinary and usual operation, maintenance, and servicing of public lighting facilities, and appurtenant facilities, including repair, removal or replacement of all or part of any of the lighting or appurtenant facilities.

Servicing means the furnishing of electric current or energy, gas or other illuminating agent for the public lighting facilities.

Maps showing the location of public lighting facilities to be operated and maintained by the District are on file in the office of the City Engineer.

A. Background Information

Street lights at intersections having traffic signals are referred to in this report as "safety lighting". The terms "street lights" and "safety lighting" do not include "traffic signals".

The luminaries (lighting fixtures) in the City of Highland are the Common Mast Type. The illuminating unit is exclusively high pressure sodium vapor. The light output or "lumens" for the luminaries varies depending upon the land use and classification of roadway.

In residential areas the lights are primarily either 70 or 100 watt high pressure sodium vapor. These lights are the mast-arm type of light, either mounted on ornamental standards or wooden poles.

The commercial areas are primarily along Base Line, 9th Street, Palm Avenue and Victoria Avenue. These streets have primarily 100 watt high pressure sodium vapor luminaries with some 70 and 150 watt high pressure sodium vapor luminaries.

Each type of luminary has a different wattage, and therefore a different average annual maintenance and operation cost. In Fiscal Year 2019-20 the City completed the acquisition of the street light inventory from Southern California Edison. Until the complete audit and inventory breakdown is available, the street light count and distribution to the zones is assumed to remain the same as the prior year as shown on the summary provided in Exhibit 1, pages 20 and 21. We performed a review of actual annual costs compared to budgets taking into account the LED conversion of street lights bulbs, the result was that costs reduced slightly, however, due to extreme inflation anticipated we kept the costs for Fiscal Year 2022-23 the same since the General Fund will adjust as needed to cover the assessment shortfall.

B. Performance of Maintenance Operations

Upon acquisition of the street lights from SCE, the City hired Siemens Mobility, Inc. to take over the maintenance of all the street lights within the District including signalized intersections and the maintenance of the safety lighting, or as the case may be, by the City of San Bernardino, the County of San Bernardino, or Caltrans where signalized intersections are owned and/or operated jointly by those entities.

The responsibility for maintenance may shift between agencies due to changes in ownership of streets and other variables as established by agreement. As such, during the 1993-94 Fiscal Year, the City began to maintain the lighting located on State Route 30 (now 210 Freeway), which has been relinquished by the State to the City after the project was completed. Affected streets include Boulder Avenue between Highland Avenue and 5th Street, 5th Street between Boulder Avenue and the 210 Freeway and the south half of Highland Avenue from the 210 Freeway to Boulder Avenue within the City of Highland.

Zone B - Landscaping

The improvements are the operation, maintenance and servicing of landscaping and appurtenant facilities described as follows:

> *Landscaping includes plantings, shrubbery, trees, turf, irrigation systems, entry monuments, hardscapes, walls and fencing, and appurtenant structures, including ornamental structures in public rights-of-way, public easements, and on City owned properties including parks, recreational facilities and other public open space within the Special Benefit Zones of the Assessment District.*

Maintenance as used herein means the furnishing of services and materials for the ordinary and usual operation, maintenance, and servicing of landscape improvements and appurtenant facilities, including repair, removal or replacement of all or part of any of the landscaping or appurtenant facilities.

Maintenance also means providing for the life, growth, health and beauty of the landscaping, including cultivation, irrigation, trimming, spraying, fertilizing and treating for disease or injury; and the removal of trimmings, rubbish, debris and other solid waste.

Servicing means the furnishing of water and electricity for the irrigation of landscaping and the maintenance and operation of appurtenant facilities.

The plans and specifications for the improvements are on file in the office of the City Planner.

Zone C - Trail Facilities

The improvements are the operation, maintenance and servicing of trail improvements and appurtenant facilities described as follows:

> *Community trail improvements, fencing improvements, and appurtenant improvements including but not limited to lighting, gates, walks, hardware, landscape barriers, soil replacement, and other improvements as initially installed, or as proposed to be installed as approved by the City.*

Maintenance as used herein means the furnishing of services and materials for the ordinary and usual operation, maintenance, and servicing of improvements and appurtenant facilities, including repair, removal or replacement, and painting of all or part of any of the improvements or appurtenant facilities.

Maintenance is further defined as trash removal, debris removal, insect abatement, weed abatement, removal or mitigation of health and safety hazards, and upkeep of the general cleanliness of the trail improvements.

Servicing means the furnishing of electricity, power, and water for the irrigation of landscaping, and the maintenance and operation of appurtenant facilities.

The plans and specifications for the improvements are on file in the office of the City Planner.

Zone D - Park Facilities

The improvements are the operation, maintenance and servicing of landscaping, park or recreational improvements and appurtenant facilities within the Canyon Oaks Park, the park located adjacent to Tract 16404, the park adjacent to Tract 16914 and the park adjacent to Tract 18199, including but not limited to:

> *Park and recreational improvements include lights, playground equipment, and play courts. Landscaping includes plantings, shrubbery, trees, turf, irrigation systems, entry monuments, hardscapes, walls and fencing, and appurtenant structures, including ornamental structures within the park.*

Maintenance as used herein means the furnishing of services and materials for the ordinary and usual operation, maintenance, and servicing of park and recreational improvements, landscape improvements, and appurtenant facilities including repair, removal or replacement of all or part of any of the landscaping, park and recreational improvements or appurtenant facilities.

Maintenance also means providing for the life, growth, health and beauty of the landscaping, including cultivation, irrigation, trimming, spraying, fertilizing and treating for disease or injury; and the removal of trimmings, rubbish, debris and other solid waste.

Servicing means the furnishing of electricity, water and other utilities for the irrigation, lighting, and maintenance and operation of park improvements, landscaping improvements, and appurtenant facilities.

The plans and specifications for the improvements are on file in the office of the City Planner.

PART III – COST ESTIMATE

The proposed budgets for the District includes an estimate of the costs of utilities, operations, services, administration and maintenance associated with the improvements within each of the zones, including all labor, personnel, equipment, materials and administrative expenses. The summary also shows the estimated fund balance, and the projected contribution/(transfer) that will be required based upon the estimated expenditures and assessment revenue.

District Budget

Tables showing the Fiscal Year 2022-23 budget estimates for each zone follow.

Zone A – Street Lights

Budget Estimate

	Totals	Urban				Rural
		Zone A-1 Residential	Zone A-2 Residential Rural	Zone A-3 Non Residential	Zone A-4 Agriculture	Zone A-5 Rural
DIRECT COSTS						
STREET LIGHTING MAINTENANCE:						
Urban Zone:						
Zone A-1 - Residential	$ 304,569	$ 304,569	$ -	$ -	$ -	$ -
Zone A-2 - Residential Rural	$ 289	$ -	$ 289	$ -	$ -	$ -
Zone A-3 - Non-Residential	$ 19,002	$ -	$ -	$ 19,002	$ -	$ -
Zone A-4 - Agriculture	$ 289	$ -	$ -	$ -	$ 289	$ -
Rural Zone:						
Zone A-5 - Rural	$ 497	$ -	$ -	$ -	$ -	$ 497
Sub Total	$ 324,646	$ 304,569	$ 289	$ 19,002	$ 289	$ 497
STREET LIGHTING INSTALLATION	$ -	$ -	$ -	$ -	$ -	$ -
SAFETY LIGHTING MAINTENANCE	$ 5,367	$ 4,834	$ 7	$ 328	$ 34	$ 164
Total Direct Costs	$ 330,013	$ 309,403	$ 296	$ 19,331	$ 322	$ 662
INCIDENTAL EXPENSES:						
City Administration	$ 3,000	$ 2,813	$ 3	$ 176	$ 3	$ 6
Consultant Services	$ 6,000	$ 5,625	$ 5	$ 351	$ 6	$ 12
Advertising/Noticing Costs	$ -	$ -	$ -	$ -	$ -	$ -
San Bernardino Cnty Admin	$ 4,163	$ 3,878	$ 6	$ 153	$ 16	$ 111
Sub Total - Incidental	$ 13,163	$ 12,316	$ 14	$ 680	$ 24	$ 129
Total - Operations & Maintenance	$ 343,176	$ 321,719	$ 309	$ 20,010	$ 347	$ 791
Delinquency (Net of Noticing Costs) 3.2%	$ 10,880	$ 10,200	$ 10	$ 634	$ 11	$ 25
TOTAL ANNUAL EXPENSES	**$ 354,056**	**$ 331,919**	**$ 319**	**$ 20,644**	**$ 358**	**$ 816**
COLLECTIONS/(CREDITS) APPLIED TO LEVY						
Reserve Fund Collection/(Transfer)	$ 7,793	$ -	$ 70	$ 5,041	$ 344	$ 2,337
General Fund Repayment/(Loan)	$ -	$ -	$ -	$ -	$ -	$ -
General Fund Contribution	$ (20,580)	$ (20,580)	$ -	$ -	$ -	$ -
Balance to Levy	**$ 341,269**	**$ 311,339**	**$ 390**	**$ 25,685**	**$ 702**	**$ 3,153**
FUND BALANCE SUMMARY						
Estimated Fund Balance (7/1/22)	$ -	$ -	$ -	$ -	$ -	$ -
Contibutions/(Transfers)	$ (12,787)	$ (20,580)	$ 70	$ 5,041	$ 344	$ 2,337
Plus General Fund Loan	$ -	$ -	$ -	$ -	$ -	$ -
Contribution from City/Others	$ -	$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)	$ (12,787)	$ (20,580)	$ 70	$ 5,041	$ 344	$ 2,337
ZONE PARCEL SUMMARY						
BU's Per Zone	14,555	13,109	19	890	91	446
No. of Assessable Parcels By Zone	13,877	12,927	19	509	52	370
Rate Per BU as Levied (Maximum)		$23.75	$20.51	$28.86	$7.71	$7.07
Total Assessments Fiscal Year 2022-23	$341,269	$311,339	$390	$25,685	$702	$3,153

Zone B – Landscape Maintenance (Including Annexations)

Budget Estimates (Page 1 of 6)

		Total	Zone B-0 Oringinal District No. 1 Base Line	Zone B-0 Oringinal District No. 1 Yarnell Ave.	Zone B-1 Annex. No. 1	Zone B-2 Annex. No. 2	Zone B-3 Annex. No. 3	Zone B-4 Annex. No. 4	Zone B-5 Annex. No. 5	Zone B-6 Annex. No. 6	Zone B-7 Annex. No. 7	Zone B-8 Annex No. 8 Highland Avenue	Zone B-8 Annex No. 8 Slope Maint.	Zone B-9 Annex. No. 9	Zone B-10 Annex. No. 10	Zone B-11 Annex. No. 11	Zone B-12 Annex. No. 12
DIRECT COSTS																	
MAINTENANCE AND SERVICING:																	
No. of Months			12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Contract Maintenance		$ 244,140	$ 3,400	$ 1,900	$ 3,000	$ 9,500	$ 2,700	$ 500	$ 500	$ 500	$ 700	$ 1,750	$ -	$ 11,800	$ 27,000	$ 7,000	$ -
Material		$ 16,400	$ 300	$ 200	$ 300	$ 500	$ 300	$ 250	$ 200	$ 200	$ 200	$ 200	$ -	$ 200	$ 500	$ 200	$ -
Water		$ 235,350	$ 1,300	$ 500	$ 3,000	$ 20,000	$ 2,800	$ 900	$ 150	$ 600	$ 1,600	$ 3,500	$ -	$ -	$ 30,000	$ 3,500	$ -
Electricity		$ 16,125	$ 200	$ 125	$ 200	$ 800	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ -	$ 200	$ 800	$ 200	$ -
	Sub Total	$ 512,015	$ 5,200	$ 2,725	$ 6,500	$ 30,800	$ 6,000	$ 1,850	$ 1,050	$ 1,500	$ 2,700	$ 5,650	$ -	$ 12,200	$ 58,300	$ 10,900	$ -
		100%	1%	1%	1%	6%	1%	0%	0%	0%	1%	1%	0%	2%	11%	2%	0%
INCIDENTAL EXPENSES																	
City Administration		$ 46,000	$ 500	$ 500	$ 1,000	$ 1,000	$ 1,000	$ 1,000	$ 1,000	$ 1,000	$ 1,000	$ 1,000	$ -	$ 1,000	$ 1,000	$ 1,000	$ -
Consultant Services		$ 2,000	$ 20	$ 11	$ 25	$ 120	$ 23	$ 7	$ 4	$ 6	$ 11	$ 22	$ -	$ 48	$ 228	$ 43	$ -
San Bernardino Cnty Admin		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Advertising		$ 319	$ 3	$ 2	$ 4	$ 19	$ 4	$ 1	$ 1	$ 1	$ 2	$ 4	$ -	$ 8	$ 36	$ 7	$ -
Notice Mailing		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Sub Total	$ 48,319	$ 524	$ 512	$ 1,029	$ 1,139	$ 1,027	$ 1,008	$ 1,005	$ 1,007	$ 1,012	$ 1,026	$ -	$ 1,055	$ 1,264	$ 1,049	$ -
Delinquency	2%	$ 11,207	$ 114	$ 60	$ 142	$ 674	$ 131	$ 40	$ 23	$ 33	$ 59	$ 124	$ -	$ 267	$ 1,276	$ 239	$ -
Contingency	5%	$ 28,017	$ 285	$ 149	$ 356	$ 1,685	$ 328	$ 101	$ 57	$ 82	$ 148	$ 309	$ -	$ 668	$ 3,190	$ 596	$ -
	Sub Total	$ 39,223	$ 398	$ 209	$ 498	$ 2,359	$ 460	$ 142	$ 80	$ 115	$ 207	$ 433	$ -	$ 935	$ 4,466	$ 835	$ -
TOTAL ANNUAL EXPENSES		$ 599,557	**$ 6,122**	**$ 3,446**	**$ 8,027**	**$ 34,299**	**$ 7,487**	**$ 3,000**	**$ 2,135**	**$ 2,622**	**$ 3,919**	**$ 7,108**	**$ -**	**$ 14,190**	**$ 64,030**	**$ 12,784**	**$ -**
CAPITAL EXPENSES		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COLLECTIONS/(CREDITS) APPLIED TO LEVY																	
Fund Balance Transfer		$ 105,549	$ (3,283)	$ (1,493)	$ -	$ -	$ -	$ -	$ (420)	$ -	$ -	$ (3,343)	$ 2,952	$ -	$ -	$ -	$ -
General Fund Repayment/(Loan)		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Fund Contribution		$ (233,480)	$ -	$ -	$ (6,275)	$ (24,046)	$ (6,170)	$ (1,867)	$ -	$ (750)	$ (2,762)	$ -	$ -	$ (8,734)	$ (48,819)	$ (8,594)	$ -
Balance to Levy		$ 471,626	**$ 2,839**	**$ 1,953**	**$ 1,753**	**$ 10,253**	**$ 1,316**	**$ 1,133**	**$ 1,715**	**$ 1,872**	**$ 1,157**	**$ 3,766**	**$ 2,952**	**$ 5,456**	**$ 15,211**	**$ 4,190**	**$ -**
FUND BALANCE SUMMARY																	
Estimated Fund Balance (7/1/22)		$ (445,126)	$ 3,550	$ 1,574	$ (61,372)	$ (127,489)	$ (59,667)	$ (22,606)	$ 11,852	$ (1,891)	$ (21,679)	$ 186	$ 35,202	$ (53,607)	$ (291,966)	$ (35,672)	$ -
Contibutions/(Transfers)		$ 103,585	$ (3,283)	$ (1,493)	$ -	$ -	$ -	$ -	$ (420)	$ -	$ -	$ (3,343)	$ 2,952	$ -	$ -		$ -
Plus General Fund Loan		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Reserve		$ 25,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,000	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)		$ (316,541)	$ 267	$ 81	$ (61,372)	$ (127,489)	$ (59,667)	$ (22,606)	$ 11,432	$ (1,891)	$ (21,679)	$ (3,157)	$ 63,154	$ (53,607)	$ (291,966)	$ (35,672)	$ -
ZONE PARCEL SUMMARY																	
No. Parcels - No Surcharge		2,795	140	126	44	272	160	6	50	32	28	46	13	4	279	157	N/A
Rate Per BU - No Surcharge			$19.51	$11.91	$31.24	$30.14	$7.85	$108.94	$30.90	$54.74	$38.30	$63.61	N/A	$3.75	$46.15	$24.78	$0.00
No. Parcels - Surcharge (see page 26)			5	19	11	62	7	4	5	2	2	12	N/A	Per Lin. Ft.	46	11	N/A
Rate Per BU - Surcharge (see page 26)			$21.46	$23.82	$34.36	$33.15	$8.64	$119.83	$33.99	$60.21	$42.13	$69.97	N/A	1,455 l.f.	$50.77	$27.26	$0.00
Other Rates or Charges													$ 227.08				
Maximum or Escalated Ballot Maximum Assessment Rate			$19.51	$11.91	$31.24	$30.14	$7.85	$108.94	$30.90	$54.74	$38.30	$63.61	$ 227.08	$3.75	$46.15	$24.78	N/A

Zone B – Landscape Maintenance (Including Annexations)

Budget Estimates (Page 2 of 6)

	Zone B-13	Zone B-14	Zone B-15	Zone B-16	Zone B-17	Zone B-18	Zone B-19	Zone B-20		Zone B-21	Zone B-22	Zone B-23	Zone B-24	Zone B-25	Zone B-26
								Annex. No. 20							
	Annex. No. 13	Annex. No. 14	Annex. No. 15	Annex. No. 16	Annex. No. 17	Annex. No. 18	Annex. No. 19	Base Line	Streater Drive	Annex. No. 21	Annex. No. 22	Annex. No. 23	Annex. No. 24	Annex. No. 25	Annex. No. 26
DIRECT COSTS															
MAINTENANCE AND SERVICING:															
No. of Months	12		12	12	12			12	12	12	12		12	12	12
Contract Maintenance	$ 1,500	$ -	$ 5,200	$ 400	$ 7,100	$ -	$ -	$ 2,100	$ 1,600	$ 1,700	$ 1,900	$ -	$ 350	$ 2,000	$ -
Material	$ 200	$ -	$ 350	$ 200	$ 200	$ -	$ -	$ 200	$ 200	$ 300	$ 300	$ -	$ 500	$ 400	$ 400
Water	$ 4,500	$ -	$ 6,500	$ 800	$ 17,000	$ -	$ -	$ 3,500	$ 1,500	$ 6,000	$ 2,000	$ -	$ -	$ 3,500	$ -
Electricity	$ 100	$ -	$ 350	$ 350	$ 700	$ -	$ -	$ 300	$ 200	$ 200	$ 200	$ -	$ -	$ -	$ -
Sub Total	$ 6,300	$ -	$ 12,400	$ 1,750	$ 25,000	$ -	$ -	$ 6,100	$ 3,500	$ 8,200	$ 4,400	$ -	$ 850	$ 5,900	$ 400
	1%	0%	2%	0%	5%	0%	0%	1%	1%	2%	1%	0%	0%	1%	0%
INCIDENTAL EXPENSES															
City Administration	$ 1,000	$ -	$ 1,000	$ 1,000	$ 1,000	$ -	$ -	$ 500	$ 500	$ 1,000	$ 1,000	$ -	$ 1,000	$ -	$ 1,000
Consultant Services	$ 25	$ -	$ 48	$ 7	$ 98	$ -	$ -	$ 24	$ 14	$ 32	$ 17	$ -	$ 3	$ 23	$ 2
San Bernardino Cnty Admin	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Advertising	$ 4	$ -	$ 8	$ 1	$ 16	$ -	$ -	$ 4	$ 2	$ 5	$ 3	$ -	$ 1	$ 4	$ 0
Notice Mailing	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sub Total	$ 1,029	$ -	$ 1,056	$ 1,008	$ 1,113	$ -	$ -	$ 528	$ 516	$ 1,037	$ 1,020	$ -	$ 1,004	$ 27	$ 1,002
Delinquency 2%	$ 138	$ -	$ 271	$ 38	$ 547	$ -	$ -	$ 134	$ 77	$ 179	$ 96	$ -	$ 19	$ 129	$ 9
Contingency 5%	$ 345	$ -	$ 679	$ 96	$ 1,368	$ -	$ -	$ 334	$ 192	$ 449	$ 241	$ -	$ 47	$ 323	$ 22
Sub Total	$ 483	$ -	$ 950	$ 134	$ 1,915	$ -	$ -	$ 467	$ 268	$ 628	$ 337	$ -	$ 65	$ 452	$ 31
TOTAL ANNUAL EXPENSES	**$ 7,811**	**$ -**	**$ 14,406**	**$ 2,892**	**$ 28,028**	**$ -**	**$ -**	**$ 7,095**	**$ 4,284**	**$ 9,865**	**$ 5,757**	**$ -**	**$ 1,919**	**$ 6,379**	**$ 1,432**
CAPITAL EXPENSES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COLLECTIONS/(CREDITS) APPLIED TO LEVY															
Fund Balance Transfer	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,079	$ (747)	$ (892)	$ 1,099	$ -	$ 3,665	$ 2,918	$ 4,072
General Fund Repayment/(Loan)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Fund Contribution	$ (3,750)	$ -	$ (11,892)	$ (1,352)	$ (20,733)	$ -	$ -	$ -	$ -	$ (1,963)	$ -	$ -	$ -	$ -	$ -
Balance to Levy	**$ 4,061**	**$ -**	**$ 2,514**	**$ 1,540**	**$ 7,295**	**$ -**	**$ -**	**$ 8,174**	**$ 3,537**	**$ 7,010**	**$ 6,856**	**$ -**	**$ 5,584**	**$ 9,296**	**$ 5,505**
FUND BALANCE SUMMARY															
Estimated Fund Balance (7/1/22)	$ (14,028)	$ -	$ (85,812)	$ (4,470)	$ (64,028)	$ -	$ -	$ 78,710	$ 9,701	$ 892	$ 24,848	$ -	$ 57,948	$ 92,003	$ 43,636
Contibutions/(Transfers)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,079	$ (747)	$ (2,855)	$ 1,099	$ -	$ 3,665	$ 2,918	$ 4,072
Plus General Fund Loan	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Reserve	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)	$ (14,028)	$ -	$ (85,812)	$ (4,470)	$ (64,028)	$ -	$ -	$ 79,789	$ 8,954	$ (1,963)	$ 25,947	$ -	$ 61,613	$ 94,921	$ 47,708
ZONE PARCEL SUMMARY															
No. Parcels - No Surcharge	85	N/A	68	84	21	N/A	N/A	71	78	85	235	N/A	1	1	2
Rate Per BU - No Surcharge	$42.30	$0.00	$31.82	$17.87	$48.96	$0.00	$0.00	$99.68	$43.50	$80.39	$28.64	$0.00	$16.67	$5.55	$6.41
No. Parcels - Surcharge (see page 26)	10.00	N/A	10.00	2.00	32.00	N/A	N/A	10.00	3.00	2.00	4.00	N/A	Per Lin. Ft.	Per Lin. Ft.	Per Lin. Ft.
Rate Per BU - Surcharge (see page 26)	$46.53	$0.00	$35.00	$19.65	$195.84	$0.00	$0.00	$109.65	$47.85	$88.43	$31.50	$0.00	335 l.f.	1675 l.f.	858 l.f.
Other Rates or Charges															
Maximum or Escalated Ballot Maximum Assessment Rate	$42.30	N/A	$31.82	$17.87	$48.96	N/A	N/A	$ 242.309	$ 43.502	$ 130.940	$ 48.969	N/A	$ 29.949	$ 9.476	$ 9.025

Zone B – Landscape Maintenance (Including Annexations)

Budget Estimates (Page 3 of 6)

	Zone B-27	Zone B-28	Zone B-29	Zone B-30	Zone B-31	Zone B-32	Zone B-33	Zone B-34	Zone B-35	Zone B-36	Zone B-37	Zone B-38	Zone B-39	Zone B-40	Zone B-41
	Annex. No. 27	Annex. No. 28	Annex No.29	Annex No.30	Annex No.31	Annex No.32	Annex No.33	Annex No.34	Annex No.35	Annex No.36	Annex No.37	Annex No.38	Annex No.39	Annex No.40	Annex No.41
DIRECT COSTS															
MAINTENANCE AND SERVICING:															
No. of Months			12	12	12			12	12	12	12				
Contract Maintenance	$ -	$ -	$ 2,000	$ 11,000	$ 5,700	$ -	$ -	$ 3,200	$ 2,200	$ 3,400	$ 5,800	$ -	$ 5,500	$ -	$ -
Material	$ -	$ -	$ 250	$ 250	$ 250	$ -	$ -	$ 250	$ 250	$ 1,000	$ 250	$ -	$ 200	$ -	$ -
Water	$ -	$ -	$ 1,000	$ 13,000	$ 5,000	$ -	$ -	$ 1,800	$ 1,500	$ 3,500	$ 3,000	$ -	$ 25,000	$ -	$ -
Electricity	$ -	$ -	$ 200	$ 200	$ 250	$ -	$ -	$ 250	$ 200	$ 400	$ 200	$ -	$ -	$ -	$ -
Sub Total	$ -	$ -	$ 3,450	$ 24,450	$ 11,200	$ -	$ -	$ 5,500	$ 4,150	$ 8,300	$ 9,250	$ -	$ 30,700	$ -	$ -
	0%	0%	1%	5%	2%	0%	0%	1%	1%	2%	2%	0%	6%	0%	0%
INCIDENTAL EXPENSES															
City Administration	$ -	$ -	$ 1,000	$ 1,000	$ 1,000	$ -	$ -	$ 1,000	$ 1,000	$ 1,000	$ 1,000	$ -	$ 1,000	$ -	$ -
Consultant Services	$ -	$ -	$ 13	$ 96	$ 44	$ -	$ -	$ 21	$ 16	$ 32	$ 36	$ -	$ 120	$ -	$ -
San Bernardino Cnty Admin	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Advertising	$ -	$ -	$ 2	$ 15	$ 7	$ -	$ -	$ 3	$ 3	$ 5	$ 6	$ -	$ 19	$ -	$ -
Notice Mailing	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sub Total	$ -	$ -	$ 1,016	$ 1,111	$ 1,051	$ -	$ -	$ 1,025	$ 1,019	$ 1,038	$ 1,042	$ -	$ 1,139	$ -	$ -
Delinquency 2%	$ -	$ -	$ 76	$ 535	$ 245	$ -	$ -	$ 120	$ 91	$ 182	$ 202	$ -	$ 672	$ -	$ -
Contingency 5%	$ -	$ -	$ 189	$ 1,338	$ 613	$ -	$ -	$ 301	$ 227	$ 454	$ 506	$ -	$ 1,680	$ -	$ -
Sub Total	$ -	$ -	$ 264	$ 1,873	$ 858	$ -	$ -	$ 421	$ 318	$ 636	$ 709	$ -	$ 2,352	$ -	$ -
TOTAL ANNUAL EXPENSES	**$ -**	**$ -**	**$ 4,730**	**$ 27,434**	**$ 13,109**	**$ -**	**$ -**	**$ 6,946**	**$ 5,487**	**$ 9,973**	**$ 11,000**	**$ -**	**$ 34,191**	**$ -**	**$ -**
CAPITAL EXPENSES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COLLECTIONS/(CREDITS) APPLIED TO LEVY															
Fund Balance Transfer	$ -	$ -	$ 506	$ -	$ (3,189)	$ -	$ -	$ 1,139	$ -	$ 1,591	$ -	$ -	$ -	$ -	$ -
General Fund Repayment/(Loan)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Fund Contribution	$ -	$ -	$ -	$ (19,082)	$ -	$ -	$ -	$ -	$ (2,338)	$ -	$ (3,464)	$ -	$ (28,170)	$ -	$ -
Balance to Levy	**$ -**	**$ -**	**$ 5,236**	**$ 8,352**	**$ 9,919**	**$ -**	**$ -**	**$ 8,085**	**$ 3,148**	**$ 11,564**	**$ 7,536**	**$ -**	**$ 6,020**	**$ -**	**$ -**
FUND BALANCE SUMMARY															
Estimated Fund Balance (7/1/22)	$ -	$ -	$ 2,953	$ (138,786)	$ 808	$ -	$ -	$ 8,893	$ (21,208)	$ 56,281	$ (20,824)	$ -	$ (112,789)	$ -	$ -
Contibutions/(Transfers)	$ -	$ -	$ 506	$ -	$ (3,189)	$ -	$ -	$ 1,139	$ -	$ 1,591	$ -	$ -	$ -	$ -	$ -
Plus General Fund Loan	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Reserve	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)	$ -	$ -	$ 3,459	$ (138,786)	$ (2,381)	$ -	$ -	$ 10,032	$ (21,208)	$ 57,872	$ (20,824)	$ -	$ (112,789)	$ -	$ -
ZONE PARCEL SUMMARY															
No. Parcels - No Surcharge	N/A	N/A	2	33	29	N/A	N/A	80	45	7	26	N/A	13	N/A	N/A
Rate Per BU - No Surcharge	$0.00	$0.00	$5.12	$176.57	$247.98	$0.00	$0.00	$92.19	$66.70	$1,652.00	$192.25	$0.00	$369.35	$0.00	$0.00
No. Parcels - Surcharge (see page 26)	N/A	N/A	Per Lin. Ft.	13	10	N/A	N/A	7	2	0	12	N/A	3	N/A	N/A
Rate Per BU - Surcharge (see page 26)	$0.00	$0.00	1,022.59 l.f.	$194.23	$272.78	$0.00	$0.00	$101.40	$73.37	N/A	$211.48	$0.00	$406.29	$0.00	$0.00
Other Rates or Charges															
Maximum or Escalated Ballot Maximum Assessment Rate	$ 9.95	N/A	$ 8.186	$ 260.276	$ 348.960	$ 8.60	$ 8.60	$ 92.190	$ 85.122	$ 2,440.759	$ 211.957	$ 7.80	$ 545.719	$ 7.80	$ 613.78

Zone B – Landscape Maintenance (Including Annexations)

Budget Estimates (Page 4 of 6)

	Zone B-42	Zone B-43	Zone B-44	Zone B-45	Zone B-46	Zone B-47	Zone B-48	Zone B-49	Zone B-50	Zone B-51	Zone B-52	Zone B-53	Zone B-54	Zone B-55	Zone B-56
	Annex No.42	Annex No.43	Annex No.44	Annex No.45	Annex No.46	Annex No.47	Annex No.48	Annex No.49	Annex No.50	Annex No.51	Annex No.52	Annex No.53	Annex No. 54	Annex No. 55	Annex No. 56
DIRECT COSTS															
MAINTENANCE AND SERVICING:															
No. of Months		12	12			12	12						12	12	12
Contract Maintenance	$ -	$ 1,850	$ 30,600	$ -	$ -	$ 2,150	$ 25,000	$ -	$ -	$ -	$ -	$ -	$ 6,150	$ 8,000	$ 1,100
Material	$ -	$ 250	$ 400	$ -	$ -	$ 250	$ 500	$ -	$ -	$ -	$ -	$ -	$ 700	$ 500	$ 500
Water	$ -	$ 1,800	$ 18,000	$ -	$ -	$ 2,000	$ 17,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,300	$ -
Electricity	$ -	$ -	$ 250	$ -	$ -	$ 200	$ 4,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 300	$ -
Sub Total	$ -	$ 3,900	$ 49,250	$ -	$ -	$ 4,600	$ 46,500	$ -	$ -	$ -	$ -	$ -	$ 6,850	$ 15,100	$ 1,600
	0%	1%	10%	0%	0%	1%	9%	0%	0%	0%	0%	0%	1%	3%	0%
INCIDENTAL EXPENSES															
City Administration	$ -	$ 1,000	$ 1,000	$ -	$ -	$ 1,000	$ 1,000	$ -	$ -	$ -	$ -	$ -	$ 1,000	$ 1,000	$ 1,000
Consultant Services	$ -	$ 15	$ 192	$ -	$ -	$ 18	$ 182	$ -	$ -	$ -	$ -	$ -	$ 27	$ 59	$ 6
San Bernardino Cnty Admin	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Advertising	$ -	$ 2	$ 31	$ -	$ -	$ 3	$ 29	$ -	$ -	$ -	$ -	$ -	$ 4	$ 9	$ 1
Notice Mailing	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sub Total	$ -	$ 1,018	$ 1,223	$ -	$ -	$ 1,021	$ 1,211	$ -	$ -	$ -	$ -	$ -	$ 1,031	$ 1,068	$ 1,007
Delinquency 2%	$ -	$ 85	$ 1,078	$ -	$ -	$ 101	$ 1,018	$ -	$ -	$ -	$ -	$ -	$ 150	$ 330	$ 35
Contingency 5%	$ -	$ 213	$ 2,695	$ -	$ -	$ 252	$ 2,544	$ -	$ -	$ -	$ -	$ -	$ 375	$ 826	$ 88
Sub Total	$ -	$ 299	$ 3,773	$ -	$ -	$ 352	$ 3,562	$ -	$ -	$ -	$ -	$ -	$ 525	$ 1,157	$ 123
TOTAL ANNUAL EXPENSES	**$ -**	**$ 5,216**	**$ 54,246**	**$ -**	**$ -**	**$ 5,973**	**$ 51,273**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 8,406**	**$ 17,325**	$ 2,730
															$ 145,169
CAPITAL EXPENSES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COLLECTIONS/(CREDITS) APPLIED TO LEVY															
Fund Balance Transfer	$ -	$ 194	$ -	$ -	$ -	$ (258)	$ 31,979	$ -	$ -	$ -	$ -	$ -	$ 6,531	$ 8,307	$ 148
General Fund Repayment/(Loan)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Fund Contribution	$ -	$ -	$ (32,717)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Balance to Levy	$ -	$ 5,411	$ 21,529	$ -	$ -	$ 5,715	$ 83,252	$ -	$ -	$ -	$ -	$ -	$ 14,937	$ 25,632	$ 2,877
FUND BALANCE SUMMARY															
Estimated Fund Balance (7/1/22)	$ -	$ (660)	$ (191,649)	$ -	$ -	$ 1,563	$ (140,963)	$ -	$ -	$ -	$ -	$ -	$ 55,529	$ 93,251	$ 40,439
Contibutions/(Transfers)	$ -	$ 194	$ -	$ -	$ -	$ (258)	$ 31,979	$ -	$ -	$ -	$ -	$ -	$ 6,531	$ 8,307	$ 148
Plus General Fund Loan	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Reserve	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)	$ -	$ (466)	$ (191,649)	$ -	$ -	$ 1,305	$ (108,984)	$ -	$ -	$ -	$ -	$ -	$ 62,060	$ 101,558	$ 40,587
ZONE PARCEL SUMMARY															
No. Parcels - No Surcharge	N/A	4	10	N/A	N/A	22	46	N/A	N/A	N/A	N/A	N/A	9	17	$ 35
Rate Per BU - No Surcharge	$0.00	$569.54	$812.40	$0.00	$0.00	$236.17	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 1.6523	$696.51	$82.21
No. Parcels - Surcharge (see page 26)	N/A	5	15	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	Per Lin. Ft.	18	N/A
Rate Per BU - Surcharge (see page 26)	$0.00	$626.49	$893.64	$0.00	$0.00	$259.79	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	9,492.01 l.f.	$766.17	$0.00
Other Rates or Charges							See								
Maximum or Escalated Ballot Maximum Assessment Rate	$ 7.42	$ 659.317	$ 853.032	$ 6.73	$ 6.41	$ 247.999	Page 35	$ 6.41	$ 3,420.68	$ 4,275.85	$ 3,078.61	$ 6.84	$ 1.6523	$ 806.303	$ 86.331

Zone B – Landscape Maintenance (Including Annexations)

Budget Estimates (Page 5 of 6)

	Zone B-57	Zone B-58	Zone B-59	Zone B-60	Zone B-61	Zone B-62	Zone B-63	Zone B-64	Zone B-65	Zone B-66	Zone B-67	Zone B-68	Zone B-69	Zone B-70	Zone B-71
	Annex No. 57	Annex No. 58	Annex No. 59	Annex No.60	Annex No. 61	Annex No. 62	Annex No. 63	Annex No. 64	Annex No. 65	Annex No. 66	Annex No. 67	Annex No. 68	Annex No. 69	Annex No. 70	Annex No. 71
DIRECT COSTS															
MAINTENANCE AND SERVICING:															
No. of Months			12		12		12					12	12	12	
Contract Maintenance	$ -	$ -	$ 300	$ -	$ 3,750	$ -	$ 1,500	$ -	$ -	$ -	$ -	$ 6,200	$ 2,000	$ 11,400	$ -
Material	$ -	$ -	$ 400	$ -	$ 250	$ -	$ 500	$ -	$ -	$ -	$ -	$ 500	$ 300	$ 1,000	$ -
Water	$ -	$ -	$ -	$ -	$ 100	$ -	$ 100	$ -	$ -	$ -	$ -	$ 5,000	$ 1,500	$ 9,000	$ -
Electricity	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 325	$ 325	$ 1,500	$ -
Sub Total	$ -	$ -	$ 700	$ -	$ 4,100	$ -	$ 2,100	$ -	$ -	$ -	$ -	$ 12,025	$ 4,125	$ 22,900	$ -
	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	2%	1%	4%	0%
INCIDENTAL EXPENSES															
City Administration	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -	$ 1,000	$ -	$ -	$ -	$ -	$ 1,000	$ 1,000	$ 1,000	$ -
Consultant Services	$ -	$ -	$ 3	$ -	$ 16	$ -	$ 8	$ -	$ -	$ -	$ -	$ 47	$ 16	$ 89	$ -
San Bernardino Cnty Admin	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Advertising	$ -	$ -	$ 0	$ -	$ 3	$ -	$ 1	$ -	$ -	$ -	$ -	$ 7	$ 3	$ 14	$ -
Notice Mailing	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sub Total	$ -	$ -	$ 1,003	$ -	$ 1,019	$ -	$ 1,010	$ -	$ -	$ -	$ -	$ 1,054	$ 1,019	$ 1,104	$ -
Delinquency 2%	$ -	$ -	$ 15	$ -	$ 90	$ -	$ 46	$ -	$ -	$ -	$ -	$ 263	$ 90	$ 501	$ -
Contingency 5%	$ -	$ -	$ 38	$ -	$ 224	$ -	$ 115	$ -	$ -	$ -	$ -	$ 658	$ 226	$ 1,253	$ -
Sub Total	$ -	$ -	$ 54	$ -	$ 314	$ -	$ 161	$ -	$ -	$ -	$ -	$ 921	$ 316	$ 1,754	$ -
TOTAL ANNUAL EXPENSES	**$ -**	**$ -**	**$ 1,757**	**$ -**	**$ 5,433**	**$ -**	**$ 3,270**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 14,001**	**$ 5,460**	**$ 25,758**	$ -
															$ 55,678
CAPITAL EXPENSES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COLLECTIONS/(CREDITS) APPLIED TO LEVY															
Fund Balance Transfer	$ -	$ -	$ 1,946	$ -	$ 3,958	$ -	$ 6,215	$ -	$ -	$ -	$ -	$ 33,064	$ 1,508	$ 8,000	$ -
General Fund Repayment/(Loan)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Fund Contribution	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Balance to Levy	**$ -**	**$ -**	**$ 3,703**	**$ -**	**$ 9,391**	**$ -**	**$ 9,485**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 47,065**	**$ 6,968**	**$ 33,758**	**$ -**
FUND BALANCE SUMMARY															
Estimated Fund Balance (7/1/22)	$ -	$ -	$ 11,385	$ -	$ (7,809)	$ -	$ 34,573	$ -	$ -	$ -	$ -	$ 203,005	$ 25,820	$ 95,281	$ -
Contibutions/(Transfers)	$ -	$ -	$ 1,946	$ -	$ 3,958	$ -	$ 6,215	$ -	$ -	$ -	$ -	$ 33,064	$ 1,508	$ 8,000	$ -
Plus General Fund Loan	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Reserve	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)	$ -	$ -	$ 13,331	$ -	$ (3,851)	$ -	$ 40,788	$ -	$ -	$ -	$ -	$ 236,069	$ 27,328	$ 103,281	$ -
ZONE PARCEL SUMMARY															
No. Parcels - No Surcharge	N/A	N/A	2	N/A	5	N/A	1	N/A	N/A	N/A	N/A	118	118	80	N/A
Rate Per BU - No Surcharge	$0.00	$0.00	$1,194.53	$0.00	N/A	$0.00	$9,485.26	$0.00	$0.00	$0.00	$0.00	$398.85	$59.05	$421.98	$0.00
No. Parcels - Surcharge (see page 26)	Per Lin. Ft.	N/A	1	N/A	Per Lin. Ft.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rate Per BU - Surcharge (see page 26)	$0.00	$0.00	$1,313.98	$0.00	N/A	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Other Rates or Charges					See										
Maximum or Escalated Ballot Maximum Assessment Rate	$ 6.11	$ 2,932.01	$ 1,194.533	$ 4,210.75	Page 36	$6.28	$ 9,485.260	$10,433.79	$19,605.83	$9,485.26	$22,942.44	$398.853	$59.052	$421.980	$ 4,230

Zone B – Landscape Maintenance (Including Annexations)

Budget Estimates (Page 6 of 6)

	Zone B-72	Zone B-73	Zone B-74	Zone B-75	Zone B-76	Zone B-77	Zone B-78	Zone B-79	Zone B-80	Zone B-81	Zone B-82	Zone B-83
	Annex No. 72	Annex No. 73	Annex No. 74	Annex No. 75	Annex No. 76	Annex No. 77	Annex No. 78	Annex No. 79	Annex No. 80	Annex No. 81	Annex No. 82	Annex No.
DIRECT COSTS												
MAINTENANCE AND SERVICING:												
No. of Months		12										
Contract Maintenance	$ -	$ 2,940	$ -	$ -	$ 1,800	$ -	$ -	$ 4,000	$ -	$ -	$ 2,500	$ -
Material	$ -	$ 200	$ -	$ -	$ 200	$ -	$ -	$ 200	$ -	$ -	$ 250	$ -
Water	$ -	$ 800	$ -	$ -	$ 1,300	$ -	$ -	$ 4,000	$ -	$ -	$ 1,500	$ -
Electricity	$ -	$ 300	$ -	$ -	$ 200	$ -	$ -	$ 600	$ -	$ -	$ 300	$ -
Sub Total	$ -	$ 4,240	$ -	$ -	$ 3,500	$ -	$ -	$ 8,800	$ -	$ -	$ 4,550	$ -
	0%	1%	0%	0%	1%	0%	0%	2%	0%	0%	1%	0%
INCIDENTAL EXPENSES												
City Administration	$ -	$ 1,000	$ -	$ -	$ 1,000	$ -	$ -	$ 1,000	$ -	$ -	$ 1,000	$ -
Consultant Services	$ -	$ 17	$ -	$ -	$ 14	$ -	$ -	$ 34	$ -	$ -	$ 18	$ -
San Bernardino Cnty Admin	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Advertising	$ -	$ 3	$ -	$ -	$ 2	$ -	$ -	$ 5	$ -	$ -	$ 3	$ -
Notice Mailing	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sub Total	$ -	$ 1,019	$ -	$ -	$ 1,016	$ -	$ -	$ 1,040	$ -	$ -	$ 1,021	$ -
Delinquency 2%	$ -	$ 93	$ -	$ -	$ 77	$ -	$ -	$ 193	$ -	$ -	$ 100	$ -
Contingency 5%	$ -	$ 232	$ -	$ -	$ 192	$ -	$ -	$ 482	$ -	$ -	$ 249	$ -
Sub Total	$ -	$ 325	$ -	$ -	$ 268	$ -	$ -	$ 674	$ -	$ -	$ 349	$ -
TOTAL ANNUAL EXPENSES	**$ -**	**$ 5,584**	**$ -**	**$ -**	**$ 4,784**	**$ -**	**$ -**	**$ 10,514**	**$ -**	**$ -**	**$ 5,919**	**$ -**
CAPITAL EXPENSES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COLLECTIONS/(CREDITS) APPLIED TO LEVY												
Fund Balance Transfer	$ -	$ (1,330)	$ -	$ -	$ (3,858)	$ -	$ -	$ 1,850	$ -	$ -	$ 1,641	$ -
General Fund Repayment/(Loan)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
General Fund Contribution	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Balance to Levy	$ -	$ 4,254	$ -	$ -	$ 926	$ -	$ -	$ 12,364	$ -	$ -	$ 7,560	$ -
FUND BALANCE SUMMARY												
Estimated Fund Balance (7/1/22)	$ -	$ 13,239	$ -	$ -	$ (9,442)	$ -	$ -	$ 32,969	$ -	$ -	$ 7,200	$ -
Contibutions/(Transfers)	$ -	$ (1,330)	$ -	$ -	$ (3,858)	$ -	$ -	$ 1,850	$ -	$ -	$ 1,641	$ -
Plus General Fund Loan	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Reserve	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)	$ -	$ 11,909	$ -	$ -	$ (13,300)	$ -	$ -	$ 34,819	$ -	$ -	$ 8,841	$ -
ZONE PARCEL SUMMARY												
No. Parcels - No Surcharge	N/A	1	N/A	N/A	2	N/A	N/A	1	N/A	N/A	1	N/A
Rate Per BU - No Surcharge	$0.00	$4,254.27	$0.00	$0.00	$463.05	$0.00	$0.00	$12,363.75	$0.00	$0.00	$7,560.00	0.00
No. Parcels - Surcharge (see page 26)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rate Per BU - Surcharge (see page 26)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Other Rates or Charges	$22,880.00		$22,880.00	$22,880.00		$22,880.00	$22,880.00					$22,880.00
Maximum or Escalated Ballot Maximum Assessment Rate	N/A	$4,254.272	$ 6,400.00	$ 7,490.00	$463.050	$ 6,420.00	$ 19,370.00	$13,631.034	$ 4,491.59	$ 4,630.50	$8,334.900	$22,880.00

Zone C – Trail Maintenance including Annexations
Budget Estimates

	Zone C-1 Original District	Zone C-2 Annex. No. 1	Zone C-3 Annex. No. 2	Zone C-4 Annex. No. 3	Zone C-5 Annex. No. 4	Zone C-6 Annex. No. 5	Zone C-7 Annex. No. 6	Zone C-8 Annex. No. 7	Zone C-9 Annex. No. 8	Total All Zones
DIRECT COSTS										
MAINTENANCE AND SERVICING:										
Contract Maintenance	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 1,800
Weed Abatement	$ 500	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 200	$ 2,100
Trail/Access Surface	$ 500	$ 225	$ 100	$ 100	$ 200	$ 100	$ 200	$ 400	$ 400	$ 2,225
Gates	$ -	$ 300	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 300
Fence Repair & Replacement	$ 500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 500
Rehabilitation and Upgrade Reserve	$ 500	$ -	$ -	$ -	$ -	$ -	$ 500	$ -	$ -	$ 1,000
Sub Total	**$ 2,200**	**$ 925**	**$ 500**	**$ 500**	**$ 600**	**$ 500**	**$ 1,100**	**$ 800**	**$ 800**	**$ 7,925**
INCIDENTAL EXPENSES:										
City Administration	$ 300	$ 300	$ 300	$ 300	$ 300	$ 300	$ 300	$ 300	$ 500	$ 2,900
Consultant Services	$ 65	$ 65	$ 65	$ 65	$ 65	$ 65	$ 65	$ 65	$ 65	$ 585
Advertising	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
San Bernardino County Administration	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mailing Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sub Total	**$ 365**	**$ 365**	**$ 365**	**$ 365**	**$ 365**	**$ 365**	**$ 365**	**$ 365**	**$ 565**	**$ 3,485**
TOTAL ANNUAL EXPENSES	**$2,565**	**$1,290**	**$865**	**$865**	**$965**	**$865**	**$1,465**	**$1,165**	**$1,365**	**$11,410**
CAPITAL EXPENSES	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
COLLECTIONS/(CREDITS) APPLIED TO LEVY										
Reserve Fund Collection/(Transfer)	**$ 614**	**$ 344**	**$ 552**	**$ 2**	**$ 80**	**$ 11**	**$ 383**	**$ 888**	**$ 167**	**$ 3,040**
General Fund Repayment/(Loan)	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
General Fund Contribution	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Balance to Levy	**$ 3,179**	**$ 1,634**	**$ 1,417**	**$ 867**	**$ 1,045**	**$ 876**	**$ 1,848**	**$ 2,053**	**$ 1,532**	**$ 14,450**
FUND BALANCE SUMMARY										
Estimated Fund Balance (7/1/22)	$7,331	$3,800	$3,283	$2,301	$2,170	$1,814	$4,367	$5,225	$3,097	$33,388
Contibutions/(Transfers)	$ 614	$ 344	$ 552	$ 2	$ 80	$ 11	$ 383	$ 888	$ 167	$ 3,040
Contribution from City/Other Sources	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)	**$ 7,945**	**$ 4,144**	**$ 3,835**	**$ 2,303**	**$ 2,250**	**$ 1,825**	**$ 4,750**	**$ 6,113**	**$ 3,264**	**$ 36,428**
ZONE PARCEL SUMMARY										
No. of Assessable Parcels	**143**	**95**	**46**	**39**	**47**	**16**	**60**	**25**	**80**	551
No. of Benefit Units (BU's)	**143**	**95**	**46**	**39**	**47**	**16**	**60**	**25**	**80**	551
Levied Rate Per BU - Specific Benefit (Maximum)	**$22.23**	**$17.20**	**$30.80**	**$22.23**	**$22.23**	**$54.73**	**$30.80**	**$82.10**	**$19.15**	

Zone D – Park Maintenance including Annexations
Budget Estimates

		Original District Zone D-0	Annex No. 1 Zone D-1	Annex No. 2 Zone D-2	Annex No. 3 Zone D-3	Total All Zones
DIRECT COSTS						
MAINTENANCE AND SERVICING:						
Contract Maintenance:		$ 6,660	$ 6,660	$ 7,000	$ 3,800	$ 24,120
Staff Maintenance/Administration		$ 12,000	$ 12,000	$ 12,000	$ 12,000	$ 48,000
Water		$ 7,000	$ 6,500	$ 13,000	$ 3,500	$ 30,000
Electricity		$ 300	$ 250	$ 250	$ 300	$ 1,100
Materials		$ 1,900	$ 1,900	$ 1,900	$ 1,900	$ 7,600
Sub Total		**$ 27,860**	**$ 27,310**	**$ 34,150**	**$ 21,500**	**$ 110,820**
INCIDENTAL EXPENSES:						
City Administration		$ 11,000	$ 11,000	$ 11,000	$ 11,000	$ 44,000
Consultant Services		$ 125	$ 125	$ 125	$ 125	$ 500
San Bernardino County Administration		$ -	$ -	$ -	$ -	$ -
Mailing Costs		$ -	$ -	$ -	$ -	$ -
Advertising		$ -	$ -	$ -	$ -	$ -
Sub Total		**$ 11,125**	**$ 11,125**	**$ 11,125**	**$ 11,125**	**$ 44,500**
TOTAL ANNUAL EXPENSES		**$ 38,985**	**$ 38,435**	**$ 45,275**	**$ 32,625**	**$ 155,320**
CAPITAL EXPENSES		**$0**	**$0**	**$0**	**$0**	**$0**
COLLECTIONS/(CREDITS) APPLIED TO LEVY						
Reserve Fund Collection/(Transfer)		$ (7,202)	$ 8,188	$ 7,726	$ (77)	$ 8,635
General Fund Repayment/(Loan)		$ -	$ -	$ -	$ -	$ -
Mutual Benefit paid by City General Fund		$ (15,594)	$ (15,374)	$ (18,110)	$ (13,050)	$ (62,128)
Balance to Levy		**$ 16,189**	**$ 31,249**	**$ 34,891**	**$ 19,498**	**$ 101,827**
FUND BALANCE SUMMARY						
Estimated Fund Balance (7/1/22)		$ 16,407	$ 39,339	$ 63,007	$ 70,389	$ 189,142
Contibutions/(Transfers)		$ (7,202)	$ 8,188	$ 7,726	$ (77)	$ 8,635
Contribution from City/Others		$ -	$ -	$ -	$ -	$ -
EST. ENDING FUND BALANCE (6/30/23)		**$ 9,205**	**$ 47,527**	**$ 70,733**	**$ 70,312**	**$ 197,777**
FACILITIES REPLACEMENT RESERVE						
Estimated Fund Balance (7/1/22)		$0	$0	$0	$0	$0
District Revenue Contribution		$0	$0	$0	$0	$0
Contribution from City/Other		$0	$0	$0	$0	$0
TOTAL FACILITIES REPLACEMENT RESERVE		**$0**	**$0**	**$0**	**$0**	**$0**
Total Annual Expenses		**$38,985**	**$38,435**	**$45,275**	**$32,625**	**$155,320**
Allocated Budget - Mutual Benefit Zone	**40.0%**	**$15,594**	**$15,374**	**$18,110**	**$13,050**	**$62,128**
Allocated Budget - Specific Benefit Zone	**60.0%**	**$23,391**	**$23,061**	**$27,165**	**$19,575**	**$93,192**
ZONE PARCEL SUMMARY						
No. of Assessable Parcels		190	87	60	24	
No. of Benefit Units (BU's)		190	87	60	24	
Levied Rate Per BU - Specific Benefit (Maximum)		$85.21	$359.18	$581.51	$812.41	

PART IV - METHOD OF ASSESSMENT

General

Pursuant to the 1972 Act and Article XIIID, all parcels that receive a special benefit conferred upon them as a result of the maintenance and operation of improvements and services shall be identified, and the proportionate special benefit derived by each identified parcel shall be determined in relationship to the entire costs of the maintenance and operation of improvements. Part 2 of Division 15 of the Streets and Highways Code, the Landscaping and Lighting Act of 1972, permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements which include the operation, maintenance and servicing of landscaping improvements.

Section 22573 of the Landscape and Lighting Act of 1972 requires that maintenance assessments must be levied according to benefit rather than according to assessed value. This Section states:

> *"The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefit to be received by each such lot or parcel from the improvements."*
>
> *"The determination of whether or not a lot or parcel will benefit from the improvements shall be made pursuant to the Improvement Act of 1911 (Division 7 (commencing with Section 5000) [of the Streets and Highways Code, State of California])."*

The 1972 Act also permits the designation of zones of benefit within any individual assessment district if "by reasons or variations in the nature, location, and extent of the improvements, the various areas will receive different degrees of benefit from the improvement" (Sec. 22547).

Article XIIID, Section 4(a) of the California Constitution limits the amount of any assessment to the proportional special benefit conferred on the property. Article XIIID also provides that publicly owned properties must be assessed unless there is clear and convincing evidence that those properties receive no special benefit from the assessment. Exempted from the assessment would be the areas of public streets, public avenues, public lanes, public roads, public drives, public courts, public alleys, public easements and rights-of-ways, public greenbelts and public parkways.

The net amount to be assessed may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels. Proposition 218, approved by the voters in November 1996, requires the City to separate general benefit from special benefit, whereas only special benefit is assessed.

Method of Assessment Spread

Zone A Street Lighting

Since the assessment will be levied on the owners of property as shown on the county tax roll, the final charges must be assigned by Assessor's Parcel Number. If assessments were to be spread just by parcel, not considering land use or parcel size, this would not be equitable, because, as an example, a single family residential parcel would be paying the same as a 50 unit apartment parcel or a large commercial establishment in a similar zone.

Therefore, the benefit each property receives will be assessed as increments of units of benefit called Benefit Units (BUs) as adopted by the City Council at the time of formation.

One (1) BU will be assigned to each developable parcel having street frontage less than or equal to 199 feet. If the lot frontage exceeds 199 feet, one additional BU will be assessed for each additional 100 feet of lot frontage or fraction thereof. For example, 1 BU is assigned to a lot with a frontage equal to 199 feet or less, 2 BUs are assigned to a lot with frontage greater than 199 feet, but less than or equal to 299 feet, and so on. Hence, BUs will increase by one (1) unit of benefit for each additional 100 foot increment, or fraction thereof of lot street frontage.

If a residential lot has frontage on two or more streets, only the shortest frontage dimension will be used to determine units of benefit. The unit of benefit for irregularly shaped lots will include only the frontage of the portion of the lot with minimum depth for development. Commercial and other non-residential uses will have all street frontage dimensions included to determine their units of benefit.

Properties that are not capable of being developed because of small size are assigned zero (0) units of benefit.

Lots without street frontage have been omitted from the methodology with the exception of condominiums, and planned unit developments. Each of these lots receives one (1) BU per dwelling unit. Lots with apartments constructed upon them have been assigned BU's based upon their street frontage.

To determine the units of benefit for each lot in the District, the records of the City and the San Bernardino County Assessor were referenced by the consultants in their calculations. All properties were originally reviewed during the formation of the District using both the Assessor's maps and the Assessor's tax roll in addition to the City's zoning maps to determine the zoning, and use of the properties.

Parcels of land listed as tax exempt by the County Assessor's records as Government owned land and Public Utility owned land will be exempted from the assessment because the current lighting zones were established prior to the passage of Proposition 218.

The method of apportionment will be in accordance with the special benefit received. Annual budgets have been prepared for each benefit zone within the District as shown on Part II of this report. The benefit

accruing to the properties is a direct benefit to all lots within the City which have the capability of being developed, whether or not they currently have improvements upon them.

A field inventory of street lights conducted by the City at formation indicated that two main areas of lighting existed, which have been referred to as "urban" and "rural" areas.

The urban area comprises areas within the City of Highland having levels of street lighting which are found in most urbanized areas. The urban area does not strictly refer to a type of land use as there may be agricultural or other uses within this classification.

The rural area is shown on the assessment diagram and includes areas in the easterly and southerly portions of the City of Highland which have a minimal level of lighting. Much of the rural area is presently either undeveloped or in agricultural land use. As development expands into the rural area and street lighting is provided, the properties will be removed from this assessment classification and included into the urban assessment area.

Assessments proposed for individual lots within Zone A will be for the special benefit received and will be determined based upon five assessment zones within the two assessment areas as defined below:

Urban Area

Zone A-1 Residential - This will include all residential lots within the urban area whether they are developed or undeveloped.

Zone A-2 Residential Rural - This designation defines all lots within the urban area having this City of Highland land use designation at the formation of the district. These lots generally have a lower level of street lighting and are therefore assessed as a separate zone.

Zone A-3 Non-Residential - This will include all commercial, manufacturing, administrative professional and other non-residential lots within the urban area whether they are developed or undeveloped.

Zone A-4 Agricultural - This will include all agriculturally land use zoned lots within the urban area.

Rural Area

Zone A-5 Rural - This will include all lots outside the urban area regardless of their land use zoning.

The following table provides a summary of typical assessments within Zone A. Detailed lighting information is provided in Exhibit 1 on the following pages.

Zone A
Summary of Typical Assessments

	Total	Zone A-1	Zone A-2	Zone A-3	Zone A-4	Zone A-5
Benefit Units	14,555	13,109	19	890	91	446
Number of Parcels	13,877	12,927	19	509	52	370
Rate per Benefit Unit		$23.75	$20.51	$28.86	$7.71	$7.07

EXHIBIT 1

STREET LIGHTING DISTRICT NO. 1
CITY OF HIGHLAND
Fiscal Year 2022-23

	Summary of Existing Luminaire Maintained - (Estimated Zones)						Summary of Estimated Operating Budget Net of Other Costs					
Urban Zone:	70 W (5800 L)	100 W (9500 L)	150 W (16000 L)	200 W (22000 L)	250 W (27500 L)	Total	70 W (5800 L)	100 W (9500 L)	150 W (16000 L)	200 W (22000 L)	250 W (27500 L)	Total
Zone A-1 - Residential	1673	1047	99	364	0	3,183	$150,039	$104,151	$9,033	$31,952	$0	$295,175
Zone A-2 - Residential Rural	1	2	0	0	0	3	$90	$199	$0	$0	$0	$289
Zone A-3 - Non-Residential	81	118	0	0	0	199	$7,264	$11,738	$0	$0	$0	$19,002
Zone A-4 - Agriculture	1	2	0	0	0	3	$90	$199	$0	$0	$0	$289
Rural Zone:												
Zone A-5 - Rural	0	5	0	0	0	5	$0	$497	$0	$0	$0	$497
Sub Total	1756	1174	99	364	0	3,393	$157,483	$116,784	$9,033	$31,952	$0	$315,252

	Estimated City Added Street Lights						Summary of Budget - w/ Op. Costs for "Additional" Luminairs					
Urban Zone:	5800 L	9500 L	16000 L	22000 L	27500 L	Total	5800 L	9500 L	16000 L	22000 L	27500 L	Total
Zone A-1 - Residential	2	2	0	0	0	4	$179	$199	$0	$0	$0	$378
Zone A-2 - Residential Rural	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Zone A-3 - Non-Residential	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Zone A-4 - Agriculture	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Rural Zone:												
Zone A-5 - Rural	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Sub Total	2	2	0	0	0	4	$179	$199	$0	$0	$0	$378

Note: City provided estimate.

	Developer Added Street Lights Based on City Estimate						Summary of Budget - w/ Op. Costs for "Additional" Luminairs					
Urban Zone:	5800 L	9500 L	16000 L	22000 L	27500 L	Total	5800 L	9500 L	16000 L	22000 L	27500 L	Total
Zone A-1 - Residential	91	4	5	0	0	100	$8,161	$398	$456	$0	$0	$9,015
Zone A-2 - Residential Rural	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Zone A-3 - Non-Residential	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Zone A-4 - Agriculture	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Rural Zone:												
Zone A-5 - Rural	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Sub Total	91	4	5	0	0	100	$8,161	$398	$456	$0	$0	$9,015

EXHIBIT 1 (Continued)

STREET LIGHTING DISTRICT NO. 1
CITY OF HIGHLAND
Fiscal Year 2022-23

	SUMMARY - STREET LIGHTS						BUDGET SUMMARY - STREET LIGHTS					
Urban Zone:	70 W (5800 L)	100 W (9500 L)	150 W (16000 L)	200 W (22000 L)	250 W (27500 L)	Total	70 W (5800 L)	100 W (9500 L)	150 W (16000 L)	200 W (22000 L)	250 W (27500 L)	Total
Zone A-1 - Residential	1766	1053	104	364	0	3,287	$158,379	$104,748	$9,490	$31,952	$0	$304,569
Zone A-2 - Residential Rural	1	2	0	0	0	3	$90	$199	$0	$0	$0	$289
Zone A-3 - Non-Residential	81	118	0	0	0	199	$7,264	$11,738	$0	$0	$0	$19,002
Zone A-4 - Agriculture	1	2	0	0	0	3	$90	$199	$0	$0	$0	$289
Rural Zone:												
Zone A-5 - Rural	0	5	0	0	0	5	$0	$497	$0	$0	$0	$497
Sub Total	1849	1180	104	364	0	3497	$165,823	$117,381	$9,490	$31,952	$0	$324,646

	SAFETY LIGHTING											
	5800 L	9500 L	16000 L	22000 L	27500 L	Total	5800 L	9500 L	16000 L	22000 L	27500 L	Total
City Owned	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Shared with Other Entities x 3/4	0	0	0	0	0	0	$0	$0	$0	$0	$0	$0
Shared with Other Entities x 1/2	0	0	0	0	32	32	$0	$0	$0	$0	$4,838	$4,838
Shared with Other Entities x 1/4	0	0	0	0	7	7	$0	$0	$0	$0	$529	$529
Sub Total	0	0	0	0	39	39	$0	$0	$0	$0	$5,367	$5,367

Note: Assumptions for Safety Lighting Provided by City.

	TOTAL STREET AND SAFETY LIGHTING											
Total Luminaire	1849	1180	104	364	39	3536						
Fiscal Year Budgeted Rate*	$ 89.68	$ 99.48	$ 91.25	$ 87.78	$ 302.38							
Total Annual Budget	Total luminaire above are from prior year						$165,823	$117,381	$9,490	$31,952	$5,367	$330,013

In Fiscal Year 2022-23 we projected the increase in costs based on monthly actuals projected out to February 2022 SCE Bill.
Until the Audit is complete, the number of lights and cost spread to the zones remains the same as 2021.

Zone B Landscape Maintenance

The primary benefits of maintaining landscaping are as set forth below:

a. Improved aesthetic appeal of nearby parcels
b. Improved erosion resistance and dust control
c. Improved safety of playground facilities within neighborhoods
d. Beautifies and makes safer flood control facilities that would otherwise be unsightly and potentially dangerous
e. Enhancement of the value of property which results from the foregoing benefits

The servicing, operation and maintenance of landscape improvements required as a condition of tract map approval provides a special benefit to those parcels and/or lots within the tract or subdivision, and the costs should be spread to parcels/lots within those specific tracts/subdivisions only.

Since the assessment will be levied on the owners of properties as shown on the tax rolls, the final charges must be assigned by Assessor's Parcel Number. If assessments were to be spread just by parcel, not considering land use or parcel size, or proximity to the improvements this would not be equitable, because, as an example, a single family residential parcel would be paying the same as a 50 unit apartment parcel or a large commercial establishment in a similar zone.

Residential Zone

Each residential parcel within a benefit zone will be assigned one (1) benefit unit. Residential lots adjacent to the landscaping areas to be maintained by the district will be assigned an additional one-tenth (0.1) benefit unit since they receive a greater special benefit from the improvements.

Zone B-0	Maintenance of the permanent landscape areas along Base Line and the left side of Yarnell Street, fronting Tracts 12484 and 12484-1.
Zone B-1	Maintenance of the permanent landscape areas of Church Street and Highland Avenue fronting Tracts 10102 and 10102-5.
Zone B-2	Maintenance of the permanent landscape areas along Greenspot Road, Weaver Street, Water Street and Santa Ana Canyon Road fronting Tracts 13936-1, 13936-2, 13936-3 and 13936-4.
Zone B-3	Maintenance of the permanent landscape areas along Base Line and Cherokee Rose Drive fronting Tracts 12474, and 12474-1.
Zone B-4	Maintenance of the permanent landscape areas along Palm Avenue fronting Tract 11181.

Zone B-5	Maintenance of the permanent landscape areas along Elder Gulch Road (vacated) fronting Tract 13956.
Zone B-6	Maintenance of the landscape easement within the landscaped drainage detention facility in Tract 14190.
Zone B-7	Maintenance of the permanent landscape areas along Base Line fronting Tract 13237.
Zone B-8	Maintenance of the permanent landscape areas along Highland Avenue frontage and the easterly hydro seeded slope of Tract 13315.
Zone B-9	Maintenance of the permanent landscape areas along Boulder Avenue Parkway frontage and median of Parcel Map 12821 (Highland Village Plaza).
Zone B-10	Maintenance of the permanent landscape areas along Greenspot Road, fronting Tracts 14326, 14326-1, and 14326-2.
Zone B-11	Maintenance of the permanent landscape area along a portion of Stoney Creek Drive, within Tracts 14398, 14398-1, 14398-2, 14398-3, and Base Line and Boulder Avenue fronting parcel one (1) of Parcel Map 12849.
Zone B-12	Maintenance of the permanent landscape areas along Highland Avenue and Victoria Avenue fronting Parcel Map 14063 (Smith's).
Zone B-13	Maintenance of the permanent landscape areas along Weaver Street fronting Tract 14095.
Zone B-14	Maintenance of the East Highland Ranch permanent landscape areas within the public right of way and public easements along Base Line Road, Cloverhill Drive, Church Street, Love Street, 5th Street, Greenspot Road, Highland Avenue, Water Street, and Club View Drive fronting those master planned parcels to be approved within the East Highlands Ranch development as of March 1992.
Zone B-15	Maintenance of the permanent landscape areas along River Oaks and Church Street fronting Tract 10726, and Assessor's Parcel 0291-051-34.
Zone B-16	Maintenance of the permanent landscape areas along Ninth Street and Eucalyptus Drive fronting Tracts 15583 and 15609.
Zone B-17	Maintenance of the permanent landscape areas along Carriage Hill Drive and Surrey Lane fronting Tracts 7996 and 8718.
Zone B-18	Maintenance of the permanent landscape areas along Base Line and Seine Ave fronting Parcel Map 14475.

Zone B-19	Maintenance of the permanent landscape areas along Boulder Avenue; Parkway frontage and median of Beaver Medical Clinic fronting Parcel Map 14615.
Zone B-20	Maintenance of the permanent landscape areas along Base Line and Streater Drive fronting Tract 15618.
Zone B-21	Maintenance of the permanent landscape areas along Church Avenue and Powell Drive fronting Tract 15788 and Tract 15929.
Zone B-22	Maintenance of the permanent landscape areas along Santa Ana Canyon fronting Tract 14362.
Zone B-23	Maintenance of the permanent landscape areas fronting the Senior Housing Project on Central Avenue.
Zone B-24	Maintenance of the permanent landscape areas and the median on Base Line fronting the El Ranch Shell (27627 Base Line).
Zone B-25	Maintenance of the permanent landscape areas fronting the Cultural and Retail Center on Highland Avenue and Boulder Avenue.
Zone B-26	Maintenance of the permanent landscape areas and the median on Boulder Avenue fronting Walgreen's and KFC/Taco Bell.
Zone B-27	Maintenance of the permanent landscape areas fronting McDonald's at Base Line and Seine Avenue.
Zone B-28	Maintenance of the permanent landscape areas fronting Orco Blended Products.
Zone B-29	Maintenance of the permanent landscape areas along Base Line and Stoney Creek fronting Parcel 2 of Parcel Map 14885-1 (Wendy's) and a portion of the median on Boulder Avenue, south of Base Line.
Zone B-30	Maintenance of the permanent landscape areas along Santa Ana Canyon Road, Marianne Lane and Lot A adjacent to Tract Map 15375.
Zone B-31	Maintenance of the permanent landscape areas along Streater Avenue and Sycamore Drive adjacent to Tract Map 15969 and 15969-1.
Zone B-32	Maintenance of the permanent landscape areas along 5th Street fronting 28099 5th Street.

Zone B-33	Maintenance of the permanent landscape areas along Base Line and Sterling Avenue adjacent to Lots 44 and 45 of Tract 3582.
Zone B-34	Maintenance of the permanent landscape areas along Base Line adjacent to Lots 1, 12, 13, 14, 15, 26 and 27 of Tract 16404.
Zone B-35	Maintenance of the permanent landscape areas along Highland Avenue adjacent to Lots 13 and 14 of Tract 14757.
Zone B-36	Maintenance of the permanent landscape areas along Boulder Avenue adjacent to lots 2 through 7 of Tract 16543.
Zone B-37	Maintenance of the permanent landscape areas along Norwood Street and Church Avenue adjacent to lots 1, 19, 20 and 30 through 38 of Tract 16607.
Zone B-38	Maintenance of the permanent landscape areas along 3rd Street adjacent to Parcel 1 of Parcel Map 9112.
Zone B-39	Maintenance of the permanent landscape parkway areas along Base Line adjacent to lots 13, 14, and 15 of Tract 15960.
Zone B-40	Maintenance of the permanent landscape areas along Atlantic Avenue adjacent to Parcel 1 of Parcel Map 16788.
Zone B-41	Maintenance of the permanent landscape areas along Cochrane Street adjacent to lots 27, 28, and 51 through 59 of Tract 16914.
Zone B-42	Maintenance of the permanent landscape areas along Base Line adjacent to 27195 Base Line.
Zone B-43	Maintenance of the permanent landscape areas along Base Line adjacent to lots 1, 2, 3 and 4 of Tract 17590 and along the east side of lot 9 of Tract 17590.
Zone B-44	Maintenance of the permanent landscape areas along Church Street and Lot "A" adjacent to lots 1 through 4 and lots 15 through 25 of Tract 17263.
Zone B-45	Maintenance of the permanent landscape areas along Base Line, Palm Avenue and Foster Avenue adjacent to parcels 1 and 2 of Parcel Map 17597.
Zone B-46	Maintenance of the permanent landscape areas along Base Line and Boulder Avenue adjacent to parcels 1 and 2 of Parcel Map 18012.

Zone B-47	Maintenance of the permanent landscape areas along Base Line adjacent to lots 1 and 24 of Tract 18199.
Zone B-48	Maintenance of the permanent landscape areas along Greenspot Road from Highway 30 to Boulder Avenue.
Zone B-49	Maintenance of the permanent landscape areas along Palm Avenue, Meines Street and 27250 5th Street.
Zone B-50	Maintenance of the permanent landscape median areas along 5th Street west of Palm Avenue.
Zone B-51	Maintenance of the permanent median parkway landscape areas along Base Line and Sterling Avenue at 25699 Base Line (APN 0278-121-39-0000).
Zone B-52	Maintenance of the permanent median parkway landscape areas along Base Line and Sterling Avenue at 25699 Base Line (APN 0278-121-39-0000).
Zone B-53	Maintenance of the permanent median parkway landscape areas along Base Line, Boulder Avenue, Seine Avenue, and Pluto Street near 27767 Base Line, CUP-01-001.
Zone B-68	Maintenance of the perimeter parkway along Greenspot Road, Boulder Avenue, and Orange Street adjacent to Tract 17682.
Zone B-69	Maintenance of the median landscaping in the medians on Greenspot Road and Boulder Avenue adjacent to Tract 17682.
Zone B-70	Maintenance of the landscaping in certain parkway and landscape easement areas, oval medians and the water quality basins within and adjacent to Tracts 18935 and 16745.

Certain parcels within the various zones receive greater benefits from landscape improvements than other parcels within the same zone by either backing up to, facing or adjoining the improvements. In general, those parcels are assessed a 10% surcharge for the added benefit. Additional surcharges include the following:

Zone B-0	Lots abutting Yarnell Avenue pay 2 times more than those not abutting Yarnell Avenue for landscape improvements on Yarnell Avenue.
Zone B-8	Lots abutting east-facing slope pay 100% of maintenance cost of slope.
Zone B-17	Lots facing medians in Carriage Hills Drive pay 4 times more than those lots not facing median in Carriage Hill Drive.

Non-Residential Zones

The assessment methodology has been developed based upon the special benefits received by each parcel and is established at the time of annexation into the district. Currently, there are forty-six special benefit zones within the district which include non-residential parcels.

The methodologies, as approved at the time of annexation for Zones B-9, B-11, B-12, B-19, B-24, B-25, B-26, B-27, B-28, B-32, B-33, B-38, B-40, B-42, B-45, B-46, B-48, B-49, B-50, B-51, B-52, B-53, B-54, B-55, B-56, B-57, B-58, B-59, B-60, B-61, B-62, B-67, B-70, B-71, B-72, B-73, B-74, B-75, B-76, B-77, B-78, B-79, B-80, B-81, B-82 and B-83 are shown below for each zone:

Zone B-9 At the time of annexation, a finding was made that the special benefit to the lots within this zone was directly related to their pro-rata share of the development's frontage on Boulder Avenue. Therefore, the assessment shall be apportioned on the basis of front footage.

Zone B-11 At the time of annexation, it was determined that parkway landscaping along the west side of Stoney Creek Drive would be assessed against Tract 14398, and that parkway landscaping along Base Line and Boulder Avenue, and the landscaped median in Boulder Avenue, would be assessed against Parcel 1 of Parcel Map 12849.

Zone B-12 At the time of annexation, a finding was made that lots adjacent to the landscaped areas to be maintained by the district received ninety percent (90%) of the special benefit and that non-adjacent parcels received the remaining ten percent of the special benefit. Therefore, the assessment shall be apportioned on the basis of acreage, with ninety percent (90%) of the total assessment apportioned to those parcels adjacent to the landscaped areas and the remaining ten percent (10%) to the non-adjacent parcels.

Zone B-19 Consists of the parking frontage and median landscape improvements within the right-of-way of Boulder Avenue. The assessments for the improvements are to be levied against Parcel 1 of Map 14615 as a condition of approval for development of the parcel.

Zone B-24 Consists of frontage landscape improvements and median landscape improvements within the right-of-way of Base Line Avenue. The assessments for the improvements are to be levied against the parcel located on the south side of Base Line Avenue west of State Freeway 30 as a condition of approval for development of the parcel.

Zone B-25 Consists of frontage landscape improvements and median landscape improvements within the right-of-way and/or easements of Highland Avenue and Boulder Avenue. The assessments for the improvements are to be levied against the parcel located at the southeast corner of Boulder Avenue and Highland Avenue as a condition of approval for development of the parcel.

Zone B-26 Consists of frontage landscape improvements and median landscape improvements within the right-of-way and/or easements of Boulder Avenue and Base Line. The assessments for the improvements are to be levied against the parcel located at the southeast corner of Boulder Avenue and Base Line as a condition of approval for development of the parcel.

Zone B-27 Consists of frontage landscape improvements within the right-of-way and/or easements of Seine Avenue and Base Line. The assessments for the improvements are to be levied against the parcel located at the northeast corner of Seine Avenue and Base Line as a condition of approval for development of the parcel.

Zone B-28 Consists of frontage landscape improvements within the right-of-way and/or easements of Palm Avenue and Third Street. The assessments for the improvements are to be levied against the parcels located at the southeast corner of Palm Avenue and Third Street as a condition of approval for development of the parcels.

Zone B-32 Consists of frontage landscape improvements within the right-of-way and/or easements of 5th Street. The assessments for the improvements are to be levied against the parcel located at 28099 5th Street as a condition of approval for development of the parcel.

Zone B-33 Consists of frontage landscape improvements within the right-of-way and/or easements of Base Line and Sterling Avenue. The assessments for the improvements are to be levied against Lots 44 and 45 of Tract 3582 as a condition of approval for development of the parcels.

Zone B-38 Consists of frontage landscape improvements within the right-of-way and/or easements of 3RD Street. The assessments for the improvements are to be levied against Parcel 1 of Parcel Map 9112 as a condition of approval for development of the parcel.

Zone B-40 Consists of frontage landscape improvements within the right-of-way and/or easements of Atlantic Avenue. The assessments for the improvements are to be levied against Parcel 1 of Parcel Map 16788 as a condition of approval for development of the parcel.

Zone B-42 Consists of frontage landscape improvements within the right-of-way and/or easements of Base Line. The assessments for the improvements are to be levied against the following Assessor's Parcel Number: 1191-501-83-0000 located at 27194 Base Line as a condition of approval for development of the parcels.

Zone B-45 Consists of frontage landscape improvements within the right-of-way and/or easements of Base Line, Palm Avenue and Foster Avenue. The assessments for the improvements are to be levied against Assessor's Parcel Numbers 1200-381-40-0000 and 1200-381-41-0000 as a condition of approval for development of the parcels.

Zone B-46 Consists of frontage landscape improvements within the right-of-way and/or easements of Base Line and Boulder Avenue. The assessments for the improvements are to be levied against Assessor's Parcel Numbers 1200-461-79-0000 and 1200-461-80-0000 as a condition of approval for development of the parcels.

Zone B-48 The improvements to be maintained by Zone B-48 consist of parkway and median landscape improvements within the right-of-way and/or easements of Greenspot Road from Highway 30 to Boulder Avenue. The assessments for the improvements are allocated to each development area based on the development area's frontage on the improvements. Within each development area, the assessments are to be levied against the parcels in the development area based on the net acreage of the individual Assessor's Parcel Numbers. Improvements for future development areas within Zone B-48 will be included as the individual projects are developed.

Zone B-49 Maintenance of the permanent landscape areas along Palm Avenue, Meines Street and 27250 5th Street. The assessments for the improvements are to be levied against Assessor's Parcel Numbers 1192-621-01-0000 as a condition of approval for development of the parcels.

Zone B-50 Maintenance of the permanent landscape median areas along 5th Street west of Palm Avenue. The assessments for the improvements are to be levied against Assessor's Parcel Numbers 1192-621-01-0000 as a condition of approval for development of the parcels.

Zone B-51 Maintenance of the permanent median parkway landscape areas along Base Line and Sterling Avenue at 25699 Base Line. The assessments for the improvements are to be levied against Assessor's Parcel Numbers 0278-121-39-0000 as a condition of approval for development of the parcel.

Zone B-52 Maintenance of the permanent median parkway landscape areas along Base Line and Sterling Avenue at 25699 Base Line. The assessments for the improvements are to be levied against Assessor's Parcel Numbers 0278-121-39-0000 as a condition of approval for development of the parcels.

Zone B-53 Maintenance of the permanent median parkway landscape areas along Base Line, Boulder Avenue, Seine Avenue, and Pluto Street near 27767 Base Line (CUP-01-001).

The assessments for the improvements are to be levied against Assessor's Parcel Numbers 1201-091-61-0000 as a condition of approval for development of the parcels.

Zone B-54 The improvements maintained within this zone includes the maintenance and servicing of landscaping and appurtenant facilities that are located in the parkway areas along Base Line within the rights-of-way and dedicated public easements in front of the parcels to be assessed which are within the boundaries of Benefit Zone 54.

Zone B-55 Maintenance of the parkway landscaping along Cypress Street, Palm Street and 9th Avenue, and including Lot "A" located within Tract Map 18677.

Zone B-56 Maintenance for the trimming and replacement of parkway trees along Bella Terra Avenue and Bella Terra Court within Tract Map 18677.

Zone B-57 Consists of frontage landscape improvements within the right-of-way and/or easements of Base Line and Central Ave. The assessment for the improvements is to be levied against Assessor Parcel Number 1193-341-06-0000 located at 26897 Base Line as a condition of approval for development of the parcel.

Zone B-58 Maintenance of the permanent median parkway landscape areas along Base Line and Central Avenue at 26897 Base Line. The assessment for the improvements is to be levied against Assessor Parcel Number 1193-341-06-0000 as a condition of approval for development of the parcel.

Zone B-59 Maintenance of the parkway landscaping at the northwest corner of Base Line and Olive Street adjacent to 7270, 7278 and 7286 Olive Street.

Zone B-60 Consists of frontage landscape improvements within the right-of-way and/or easement of Base Line. The assessment for the improvements is to be levied against Parcel 1 of Parcel Map 19376 (Assessor Parcel Number 1200-381-42-0000) located at 27356 Base Line as a condition of approval for development of the parcel.

Zone B-61 Maintenance of the permanent median parkway landscape area along Base Line between 27310 Base Line and 27356 Base Line and adjacent to 27427 Base Line. The assessments for the improvements are to be levied against Assessor Parcel Numbers 1200-381-40-0000, 1200-381-41-0000, 1200-381-42-0000, 1200-421-33-0000 and 1201-011-07-0000 as a condition of approval for development.

Zone B-62 Consists of frontage landscape improvements within the right-of-way and/or easements of Greenspot Road, Church Street and Old Greenspot Road. The assessment for the improvements is to be levied against Assessor's Parcel Number 1210-201-01-0000 located at 28895 Greenspot Road as a condition of approval for development of the parcel.

Zone B-63 Maintenance of the permanent median parkway landscape areas along Base Line at 28807 Base Line. The assessment for the improvements is to be levied against Assessor Parcel Number 1201-251-12-0000 as a condition of approval for development of the parcel.

Zone B-64 Maintenance of the parkway landscaping along Base Line at 28807 Base Line. The assessment for the improvements is to be levied against Assessor Parcel Number 1201-251-12-0000 as a condition of approval for development of the parcel.

Zone B-64 Maintenance of the parkway landscaping along Greenspot Road at 31111 Greenspot. The assessment for the improvements is to be levied against Assessor Parcel Number 0297-051-17-0000 as a condition of approval for development of the parcel.

Zone B-66 Maintenance of the permanent median parkway landscape areas along Greenspot Road at 31111 Greenspot. The assessment for the improvements is to be levied against Assessor Parcel Number 0297-051-17-0000 as a condition of approval for development of the parcel.

Zone B-67 Maintenance of the parkway landscaping fronting the northeast corner of Base Line and Church Street, Parcel Map 19652.

Zone B-71 Maintenance of the parkway landscaping located at 26492 Highland Avenue.

Zone B-72 Maintenance of the parkway and frontage landscaping along Buckeye Street, Base Line and Church Avenue, Parcel Map 19742.

Zone B–73 Maintenance of the permanent median landscaping in the median on Highland Avenue adjacent to Assessor's Parcel Numbers 1191-241-36-0000 as a condition of approval for development of the parcel.

Zones B-74 Maintenance of the parkway and frontage landscaping along Highland Avenue adjacent to Assessor's Parcel Number 1191-241-36-0000.

Zone B-75 Maintenance of the parkway and frontage landscaping along Base Line, State Route 210 and Messina Street adjacent to Assessor's Parcel Number 1200-461-81-0000.

Zone B–76 Maintenance of the permanent median landscaping and hardscape for the Base Line medians located between State Route 210 and Boulder Avenue adjacent to Assessor's Parcel Numbers 1200-461-81-0000 and 1200-461-82-0000 as a condition of approval for development of the parcels.

Zone B-77 Maintenance of the parkway and frontage landscaping along Base Line, Seine Avenue and Messina Street adjacent to Assessor's Parcel Number 1200-461-82-0000.

Zone B-78	Maintenance of the parkway and frontage landscaping along Fifth Street and Church Avenue adjacent to Parcel 1 of Parcel Map 19797.
Zone B–79	Maintenance of the permanent median landscaping in the median along Fifth Street adjacent to parcel 1 of Parcel Map 19797 as a condition of approval for development of the parcel.
Zone B-80	Maintenance of the parkway and frontage landscaping along Base Line adjacent to Assessor's Parcel Number 1192-331-36-0000.
Zone B-81	Maintenance of the median landscaping of the median adjacent to 26539 Base Line, Assessor's Parcel Number 1192-331-36-0000.
Zone B-82	Maintenance of the median landscaping of the median adjacent to 26529 Highland Avenue, Assessor's Parcel Number 1191-241-34-0000.
Zone B-83	Maintenance of the parkway and frontage landscaping along Boulder Avenue and Greenspot Road adjacent to Assessor's Parcel Number 1201-361-28-0000.

Certain zones are presently established, or will be established, for future maintenance work to be accomplished by the City of Highland should the property owner(s) not perform landscape maintenance to the satisfaction of the City of Highland. Zones B-12, B-14, B-18, B-19, B-23, B-26, B-27, B-28, B-32, B-33, B-38, B-40, B-41, B-42, B-45 B-46, B-49, B-50, B-51, B-52, B-53,B-57, B-60, B-62, B-64, B-65, B-67, B-71, B-72, B-74, B-75, B-77, B-78, B-80 and B-83 are subject to these provisions.

Zones B-20 through B-83 can include a 5% inflation adjustment to the assessment rates, subject to final approval by the City Council.

The following tables provides a summary of typical assessments within Zone B.

ZONE B LANDSCAPE MAINTENANCE Summary of Typical Assessments				
Zone	Rate per Benefit Unit Standard Lots	Rate per Benefit Unit Surcharged Lots	Slope Maintenance	Annexations with Differing Assessment Methods
B-0 (Base Line)	$ 19.51	$ 21.46		
B-0 (Yarnell Ave)	$ 11.91	$ 23.82		
B-1	$ 31.24	$ 34.36		
B-2	$ 30.14	$ 33.15		
B-3	$ 7.85	$ 8.64		
B-4	$ 108.94	$ 119.83		
B-5	$ 30.90	$ 33.99		
B-6	$ 54.74	$ 60.21		
B-7	$ 38.30	$ 42.13		
B-8	$ 63.61	$ 69.97	$ 227.08	
B-9	N/A	N/A		$3.75 per Linear Foot *
B-10	$ 46.15	$ 50.77		
B-11	$ 24.78	$ 27.26		
B-12	$ -	$ -		
B-13	$ 42.30	$ 46.53		
B-14	$ -	$ -		
B-15	$ 31.82	$ 35.00		
B-16	$ 17.87	$ 19.65		
B-17	$ 48.96	$ 195.84		
B-18	$ -	$ -		
B-19	$ -	$ -		
B-20 (Base Line)	$ 99.68	$ 109.65		
B-20 (Streater Dr)	$ 43.50	$ 47.85		
B-21	$ 80.39	$ 88.43		
B-22	$ 28.64	$ 31.50		
B-23	$ -	$ -		
B-24	N/A	N/A		$15.88 per Linear Foot *
B-25	N/A	N/A		$5.29 per Linear Foot *
B-26	$6.41	N/A		$9.02/ LF maximum, $6.41/LF
B-27	$ -	$ -		
B-28	$ -	$ -		
B-29	N/A	N/A		$8.18/ LF maximum, $5.12/LF
B-30	$ 176.57	$ 194.23		
B-31	$ 247.98	$ 272.78		
B-32	$ -	$ -		
B-33	$ -	$ -		
B-34	$ 92.19	$ 101.40		
B-35	$ 66.70	$ 73.37		
B-36	$ 1,652.00	N/A		
B-37	$ 192.25	$ 211.48		
B-38	$ -	$ -		
B-39	$ 369.35	$ 406.29		
B-40	$ -	$ -		

ZONE B LANDSCAPE MAINTENANCE Summary of Typical Assessments (Continued)				
B-41	$ -	$ -		
B-42	N/A	N/A		$7.42/ LF maximum, $0.00/LF
B-43	$ 569.54	$ 626.49		
B-44	$ 812.40	$ 893.64		
B-45	$ -	$ -		$6.73/ LF maximum, $0.00/LF
B-46	$ -	$ -		$6.41/ LF maximum, $0.00/LF
B-47	$ 236.17	$ 259.79		
B-48	N/A	N/A		Varies By Development Area
B-49	$ -	$ -		
B-50	$ -	$ -		
B-51	$ -	$ -		
B-52	$ -	$ -		
B-53	$ -	$ -		
B-54	$ 1.5736	N/A		$1.65232 LF maximum
B-55	$ 696.51	$ 766.17		
B-56	$ 82.21	$ -		
B-57	$ -	$ -		$6.11 LF maximum, $0.00/LF
B-58	$ -	$ -		$2,932.01 per lot/$0
B-59	$ 1,194.53	$ 1,313.98		
B-60	$ -	$ -		$4,210.75 Annual/ $0
B-61	N/A	N/A		Varies per lot
B-62	$ -	$ -		$6.28 LF maximum, $0.00/LF
B-63	$ 9,485.26	$ -		
B-64	$ -	$ -		
B-65	$ -	$ -		
B-66	$ -	$ -		
B-67	$ -	$ -		
B-68	$ 398.85	$ -		
B-69	$ 59.05	$ -		
B-70	$ 421.98	$ -		
B-71	$ -	$ -		
B-72	$ -	$ -		
B-73	$ 4,254.27	$ -		
B-74	$ -	$ -		
B-75	$ -	$ -		
B-76	$ 463.05			
B-77	$ -	$ -		
B-78	$ -	$ -		
B-79	$ 12,363.75			
B-80	$ -	$ -		
B-81	$ -	$ -		
B-82	$ 7,560.00	$ -		
B-83	$ -	$ -		

* Balloted amount (excludes escalation)

Parcels in Zone B-48:

DEVELOPMENT AREA 1 (Parcel Map 19011)

Assessor's Parcel Number	Description	Maximum Annual Assessment	FY 2022-23 Assessment
1201-331-07-0000	Parcel 1	$952.11	$952.11
1201-331-08-0000	Parcel 2	$21,739.57	$21,739.57
1201-341-19-0000	Parcel 3	$1,408.31	$1,408.31
1201-341-20-0000	Parcel 4	$2,796.78	$2,796.78
1201-341-21-0000	Parcel 5	$3,550.53	$3,550.53
		$30,447.30	$30,447.30

DEVELOPMENT AREA 2 (Parcel Map 18886)

Assessor's Parcel Number	Description	Maximum Annual Assessment	FY 2022-23 Assessment
1201-341-26-0000	Parcel 1	$2,324.55	$2,324.55
1201-341-23-0000	Parcel 2	$2,016.00	$2,016.00
1201-341-61-0000	Parcel 3	$2,694.84	$2,694.84
1201-341-62-0000	Parcel 3	$3,455.97	$3,455.97
1201-341-25-0000	Parcel 4	$6,521.09	$6,521.09
		$17,012.45	$17,012.45

DEVELOPMENT AREA 3

Assessor's Parcel Number	Description	Maximum Annual Assessment	FY 2022-23 Assessment
1201-341-29-0000		$2,020.98	$2,020.98
1201-341-30-0000		$46.35	$46.35
1201-341-33-0000		$9,485.38	$9,485.38
1201-341-34-0000		$691.10	$691.10
1201-341-35-0000		$55.99	$55.99
1201-341-36-0000		$131.24	$131.24
1201-341-37-0000		$320.77	$320.77
1201-341-38-0000		$369.41	$369.41
1201-341-39-0000		$348.76	$348.76
1201-341-40-0000		$313.43	$313.43
1201-341-41-0000		$726.43	$726.43
1201-341-42-0000		$947.16	$947.16
1201-341-43-0000		$628.69	$628.69
1201-341-44-0000		$1,408.81	$1,408.81
1201-341-45-0000		$1,625.41	$1,625.41
1201-341-46-0000		$254.23	$254.23
1201-341-47-0000		$153.73	$153.73
1201-341-48-0000		$526.35	$526.35
1201-341-49-0000		$385.01	$385.01
1201-341-50-0000		$385.47	$385.47
1201-341-51-0000		$532.32	$532.32
1201-341-52-0000		$183.10	$183.10
1201-341-53-0000		$340.50	$340.50
1201-341-54-0000		$563.07	$563.07
1201-341-55-0000		$338.67	$338.67
1201-341-56-0000		$38.55	$38.55
1201-341-57-0000		$311.13	$311.13
1201-341-58-0000		$185.85	$185.85
1201-341-59-0000		$0.00	$0.00
1201-341-60-0000		$0.00	$0.00
1201-351-14-0000		$1,078.41	$1,078.41
1201-351-15-0000		$688.34	$688.34
1201-351-16-0000		$881.08	$881.08
1201-351-28-0000		$3,168.68	$3,168.68
1201-361-26-0000		$4,982.15	$4,982.15
1201-361-28-0000		$614.34	$614.34
1201-361-29-0000		$482.22	$482.22
1201-361-30-0000		$579.20	$579.20
		$35,792.31	$35,792.31

The Future Development Area for Zone B-48 includes the following Assessor's Parcel Numbers:

FUTURE DEVELOPMENT AREA

Assessor's Parcel Number	Assessor's Parcel Number
1201-331-01-0000	1201-361-06-0000
1201-341-01-0000	1201-361-07-0000
1201-341-08-0000	1201-361-08-0000
1201-341-09-0000	1201-361-09-0000
1201-341-14-0000	1201-361-11-0000
1201-341-15-0000	1201-361-12-0000
1201-361-23-0000	
1201-361-27-0000	

The summary of Zone B-61 assessments are as follows:

PARCELS IN B-61
DEVELOPMENT AREA 1

Assessor's Parcel Number	Description	Maximum Annual Assessment	FY 2022-23 Assessment
1200-381-40-0000	Parcel 1	$1,641.87	$1,641.87
1200-381-41-0000	Parcel 2	$990.78	$990.78
1200-381-42-0000	Parcel 3	$1,061.55	$1,061.55
1200-421-33-0000	Parcel 4	$1,921.35	$1,921.35
		$5,615.55	$5,615.55

DEVELOPMENT AREA 2

Assessor's Parcel Number	Description	Maximum Annual Assessment	FY 2022-23 Assessment
1201-011-07-0000	Parcel 1	$3,775.05	$3,775.05
	Total Levy for Zone B-61		**$9,390.60**

Zone C Trail Maintenance

The City Council has determined that a uniform and consistent level of maintenance of the community trail system is vital and necessary for the protection of the economic and humanistic values of the community. Zone C-1, the original community trail zone, is located within Tracts 14629 and 14629-1. In addition, the City Council has approved the following annexations to Zone C: Zone C-2 (Tracts 15583, 15689, 16509 and 17590), Zone C-3 (Tract 15375), Zone C-4 (Tract 15969 and 15969-1), Zone C-5 (Tract 14757), Zone C-6 (Tract 15960), Zone C-7 (Tract 16914), Zone C-8 (Tract 17263) and Zone C-9 (Tracts 18935 and 16745).

Community Trail District No. 1 has been developed for the benefit and enjoyment of all the properties located within the aforementioned tracts. It has been a City Council policy that future developments within the City that have community trails as part of their development plan be annexed into the District.

As stated when the District was formed, Special Benefit is determined based on the following facts:

a. The purpose of community trails is to provide an aesthetic impression on the area.
b. The maintained community trail benefits all properties in the development.
c. The benefit to the lots not adjacent to the community trail areas benefit by the uniform maintenance. All lots not abutting the community trail areas benefit equally.
d. The community trail is located in the backyards of the units adjacent to the community trail, however these properties were not given any surcharge in assessment since the community trail will not be directly accessible from the adjacent lots.

Therefore, one zone of benefit has been established for the original District, as well as for each benefit zone that has been annexed to the District. Hence, each developed lot in the development is apportioned equally.

Zone C-1 The boundary of Community Trail District No. 1 is coincident with the boundaries of Tracts 14629 and 14629-1, located centrally between Boulder Avenue, Base Line, Church Street and Highland Avenue. The development contains a total of 143 residential lots. The annual budget for the Original District is divided equally by the total number of residential lots within the Original District in order to calculate the assessment amount per Benefit Unit.

Zone C-2 Annexation No. 1, Tract No. 15583, Tract No. 15689, Tract No. 15609 and Tract No. 17590. The tracts are located between Base Line and Ninth Street approximately 595 feet east of Landershim Avenue. The zone includes all properties in the aforementioned Tracts, and was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements along the thirty (30) foot wide easement that were granted to the City of Highland per approval. The development contains a total of 95 residential lots. The annual budget for Annexation No. 1 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zone C-3 Annexation No. 2, Tract No. 15375 was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements along the easement granted to the City of Highland. The development contains a total of 46 residential lots. The annual budget for Annexation No. 2 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zone C-4 Annexation No. 3 Tract No. 15969 and 15969-1 was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements along the easement granted to the City of Highland. The development contains a total of 39 residential lots. The annual budget for Annexation No. 3 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zone C-5 Annexation No. 4 Tract No. 14757 was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements along the easement granted to the City of Highland. The development contains a total of 47 residential lots. The annual budget for Annexation No. 4 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zone C-6 Annexation No. 5 Tract No. 15960 was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements along the easement granted to the City of Highland. The development contains a total of 16 residential lots. The annual budget for Annexation No. 5 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zone C-7 Annexation No. 6 Tract No. 16914 was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements along the easement granted to the City of Highland along Cochran Street and through the park. The development contains a total of 60 residential lots. The annual budget for Annexation No. 6 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zone C-8 Annexation No. 7 Tract No. 17263 was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements in Lot A of Tract 17263. The development contains a total of 25 residential lots. The annual budget for Annexation No. 7 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zone C-9 Annexation No. 8 Tracts 18935 and 16745 was approved by the City Council to provide for the ongoing maintenance and servicing of the community trail improvements within the right-of-way along Aplin Street of Tract 18935 and 16745. The development contains a total of 80 residential lots. The annual budget for Annexation No. 8 is divided equally by the total number of residential lots within the annexation in order to calculate the assessment amount per Benefit Unit.

Zones C-1 through C-9 include a 5% inflation adjustment to the assessment rates, subject to final approval by the City Council.

The following table provides a summary of typical assessments within Zone C.

ZONE C

COMMUNITY TRAIL MAINTENANCE

SUMMARY OF TYPICAL ASSESSMENTS

Zone	Land Use	Assigned Benefit Units	Rate per Benefit Unit	Annual Assessment
C-1	Single Family Residential	1	$22.23	$22.23
C-2	Single Family Residential	1	$17.20	$17.20
C-3	Single Family Residential	1	$30.80	$30.80
C-4	Single Family Residential	1	$22.23	$22.23
C-5	Single Family Residential	1	$22.23	$22.23
C-6	Single Family Residential	1	$54.73	$54.73
C-7	Single Family Residential	1	$30.80	$30.80
C-8	Single Family Residential	1	$82.10	$82.10
C-9	Single Family Residential	1	$19.15	$19.15

Zone D Park Maintenance

At the time of formation, two zones of special benefit were established; Mutual Special Benefit, and Specific Benefit. The "Mutual Special Benefit" zone has been defined as the special benefit that accrues to each lot within the entire City related to Park Maintenance District No. 1. Mutual Special Benefit has been defined as 40% of the total benefit. At this time, the portion of costs applicable to Mutual Special Benefit will be paid by the City. The City may, however, at a future date, annex the remainder of the entire City into the Park Maintenance District No. 1 for purposes of assessing each lot situated therein based on the Mutual Special Benefit received. Tract No. 14757 is located adjacent to the existing Specific Benefit Zone D-0 and is proposed to be annexed to Zone D-0. Zone D-1 (Tract No. 16404) proposed to be annexed includes the dedication of a new City park to be maintained by the "Mutual Specific Benefit" zone as well as by the parcels in Zone D-1 using the percentages established at the time the District was formed.

Specific Benefit has been defined as the special benefit that accrues to each lot within Zones D-0 and D-1, and is apportioned based on 60% of the total benefit, assessed at the time the property is subdivided. There is a specific benefit received by properties within the "specific benefit" zone which includes:

a. Improved aesthetic appeal of nearby parcels
b. Enhancement of the value of property which results from the foregoing benefits

The servicing, operation and maintenance of park and landscape improvements directly benefits those parcels and/or lots within the tract or subdivision. Lot size is not related to benefit received. Therefore, the benefits assigned to each lot will be equal, regardless of size, or land use zone designation.

Properties that are listed as tax exempt by the Assessor's Office will not be assessed. In addition, lots that have an assessed valuation of less than $500 will not be assessed.

Mutual Specific Benefit" Zone - The "Mutual Special Benefit" zone has been defined as the special benefit that accrues to each lot within the entire City related to the maintenance of Park Maintenance District No. 1 (Canyon Oaks Park, the City park dedication in Tract 16404 and the new City park dedication adjacent to Tract 16914). Mutual Special Benefit has been defined as 40% of the total special benefit. At this time, the portion of costs applicable to Mutual Special Benefit will be paid by the City. The City may, however, at a future date, annex the remainder of the entire city into the Park Maintenance District No. 1 for purposes of assessing each lot situated therein based on the Mutual Special Benefit received.

Zone D-0 — Zone D-0 is responsible for the Specific Benefit portion of the maintenance of Canyon Oaks Park, defined as the special benefit that accrues to each lot within Tract 14629 and Tract 14757, and is apportioned based on 60% of the total benefit, assessed at the time the property is subdivided

Zone D-1 Zone D-1 is responsible for the Specific Benefit portion of the maintenance of the City park dedication in Tract 16404, defined as the special benefit that accrues to each lot within Tract 16404, and is apportioned based on 60% of the total benefit, assessed at the time the property is subdivided

Zone D-2 Zone D-2 is responsible for the Specific Benefit portion of the maintenance of the new City park dedication adjacent to Tract No. 16914, defined as the special benefit that accrues to each lot within Tract 16914, and is apportioned based on 60% of the total benefit, assessed at the time the property is subdivided

Zone D-3 Zone D-3 is responsible for the Specific Benefit portion of the maintenance of the new City park dedication adjacent to Tract No. 18199, defined as the special benefit that accrues to each lot within Tract 18199, and is apportioned based on 60% of the total benefit, assessed at the time the property is subdivided

Zones D-0 through D-3 include a 5% inflation adjustment to the assessment rates, subject to final approval by the City Council.

The following table provides a summary of typical assessments within Zone D.

ZONE D

PARK MAINTENANCE

SUMMARY OF TYPICAL ASSESSMENTS

Zone	Land Use	Assigned Benefit Units	Rate per Benefit Unit	Annual Assessment
D-0	Single Family Residential	1	$85.21	$85.21
D-1	Single Family Residential	1	$359.18	$359.18
D-2	Single Family Residential	1	$581.51	$581.51
D-3	Single Family Residential	1	$812.41	$812.41

Assessment district incidental costs will be spread within each zone, pro-rata, based on the assessments levied.

APPENDIX A – ASSESSMENT DIAGRAM

An assessment diagram was prepared and filed in the Office of the City Clerk. The diagram consists of nine (9) index sheets and two (2) bound books of San Bernardino County Assessor's Maps. The index sheets show the areas which include properties to be assessed and refer to the San Bernardino County Assessor's maps for a more detailed description of the properties.

In addition, a diagram of the District Boundaries showing the exterior boundaries of the District has been submitted to the City Clerk, and is incorporated herein by reference. The lines and dimensions of each lot or parcel within the District are those lines and dimensions shown on the maps of the Assessor of the County of San Bernardino for the year in which this Report was prepared, and are incorporated herein by reference and made part of this Report.

APPENDIX B – ASSESSMENT ROLL

The proposed assessment and the amount of assessment apportioned to each lot or parcel, as shown on the latest roll at the Assessor's Office are submitted separately as Appendix B of the Engineer's Report for the City of Highland, Consolidated Landscape and Lighting District No. 96-1.

The description of each lot or parcel is part of the records of the Assessor of the County of San Bernardino and these records are, by reference, made part of this Report.

Attachment 2

RESOLUTION NO. 2022-___

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HIGHLAND COUNTY OF SAN BERNARDINO, CALIFORNIA GIVING PRELIMINARY APPROVAL OF ENGINEER'S REPORT FOR CONSOLIDATED LANDSCAPING & LIGHTING DISTRICT NO. 96-1 FISCAL YEAR 2022-23

RESOLVED by the City Council of the City of Highland that:

WHEREAS, on the 8th day of March, 2022 said City Council did adopt its Resolution No. 2022-009 directing the Engineer of Work to make and file with the City Clerk of said City a report in writing as required by the Landscaping and Lighting Act of 1972 for Fiscal Year 2022-23; and

WHEREAS, said Engineer of Work has made and filed with the City Clerk of said City a report in writing as called for in said Resolution and under and pursuant to said act, which report has been presented to this Council for consideration; and

WHEREAS, said Council has duly considered said report and each and every part thereof, and finds that each and every part of said report is sufficient, and that no part of said report requires modification in any respect;

NOW THEREFORE, it is ordered as follows:

1. That the Engineer's Estimate of the itemized costs and expenses of said work and of the incidental expenses in connection therewith, contained in said report be, and each of them are hereby, preliminarily approved and confirmed.

2. That the diagrams showing the assessment District referred to and described in said report the boundaries of the subdivision of land within said Assessment District as the same existed at the time of passage of said Resolution, is hereby preliminarily approved and confirmed.

3. That the proposed assessment upon the subdivision of land in said Assessment District is in proportion to the estimated benefit to be received by said subdivisions, respectively, from said work and of the incidental expenses thereof, as contained in said report is hereby preliminarily approved and confirmed.

4. That said report shall stand as the Engineer's Report for the purposes of all subsequent proceedings, and pursuant to the proposed district.

APPROVED AND ADOPTED this 10th day of May, 2022.

_____
Larry McCallon
Mayor

ATTEST:

_____
Betty Hughes, MMC
City Clerk

Attachment 3

RESOLUTION NO. 2022-___

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HIGHLAND, CALIFORNIA DECLARING ITS INTENTION TO LEVY AND COLLECT ASSESSMENTS FOR FISCAL 2022-23 IN CONSOLIDATED LANDSCAPE AND LIGHTING DISTRICT NO. 96-1, AN ASSESSMENT DISTRICT, AND OFFERING A TIME AND PLACE FOR HEARING OBJECTIONS THERETO

The City Council of the City of Highland, pursuant to the provisions of The Landscaping and Lighting Act of 1972, being Division 15 of the Streets and Highways Code of the State of California, does resolve as follows:

Description of Work

SECTION 1. That the public interest and convenience requires and it is in the intention of the City Council of the City of Highland, California, to order the following work be done, to wit:

1. Maintenance, operation and servicing of landscaping and lighting as authorized by Section 22525 of the Streets and Highways Code.

2. Any and all work and materials appurtenant thereto or which are necessary or convenient for the maintenance and servicing thereof.

Location of Work

SECTION 2. The foregoing described work is to be located within roadway right-of-way and public utility easements, landscape easements, trail easements, park lands, etc., within the incorporated boundaries of the City of Highland, more particularly described on a map which is on file in the City Clerk's office entitled "Assessment Diagram Consolidated Landscape and Lighting District No. 96-1."

Description of Assessment District

SECTION 3. That the contemplated work, in the opinion of said City Council, is of more local than ordinary public benefit, and the said City Council hereby makes the expense of said work chargeable upon a district, which said district is described as follows: All that certain territory of the City of Highland included within the exterior boundary line shown upon that certain "Assessment Diagram, Consolidated Landscape and Lighting District no. 96-1," heretofore approved by the City Council of said City indicating by said boundary line the extent of the territory included within the proposed assessment district and which map is on file in the Office of the City Clerk of said City.

Reference is hereby made to said map for further, full and more particular description of said assessment district, and the said map on file shall govern for all details as to the extent of said assessment district.

Report of the Engineer

SECTION 4. The Highland City Council by Resolution No. 2022-___ has accepted the report of the Engineer of Work, which report indicates the amount of the proposed assessment, the district boundary, detailed description of improvements, and the method of assessment. The report titled "Engineer's Report Consolidated Landscape and Lighting District No. 96-1" is on file in the Office of the City Clerk of said City, and was prepared for the 2022-23 Fiscal Year in accordance with The Landscaping and Lighting Act of 1972. Reference to said report is hereby made for all particulars for the amount and extent of the assessments and for the extent of the work.

Collection of Assessments

SECTION 5. The assessment shall be collected at the time and in the same manner as County taxes are collected. The Engineer of Work shall file a report annually with the Highland City Council and the City Council will annually conduct public hearings upon said report as required by law, at which time assessments for the next fiscal year will be determined.

Time and Place of Hearing

SECTION 6. Notice is hereby given that on the 14th day of June, 2022, at 6:00 p.m., or as soon thereafter as may be heard, the City Council of the City of Highland will hold a public hearing and any and all persons having any objection to the work or extent of the assessment district, may appear and show cause why said work should not be done or carried out in accordance with this Resolution of Intention.

Due to the COVID-19 pandemic public health orders, which limit in-person public meetings, the public hearing will be held either in the City Hall Donahue Council Chambers, 27215 Base Line, Highland, California, 92346, or in another manner specified in the meeting agenda. Please check the June 14, 2022 City Council agenda once it is posted on the City's website for information as to how to participate in the City Council meeting.

To avoid physical contact, the City strongly encourages you to submit your comments by email in advance to the City Clerk at publiccomment@cityofhighland.org and include "Landscape and Lighting District No. 96-1" in the title. Any written comments received will be included as part of the public record on this matter.

Landscaping and Lighting Act of 1972

SECTION 7. All of the work herein proposed shall be done and carried through in pursuance of act of the legislature of the State of California designated the Landscaping and Lighting Act of 1972, being Division 15 of the Streets and Highways Code of the State of California.

Assessment of Railroad, Gas, Water, or Electric Utility or Electric Line Right-of-Way

SECTION 8. That by reference to Section 22595 of the Streets and Highways Code all railroad, gas, water or electric utility or electric line right-of-way included within said Consolidated Landscape and Lighting District No. 96-1 which will receive benefit will be assessed for said benefit.

Exclusion of Public Property

SECTION 9. All lots or parcels belonging to public agencies shall be omitted from assessments to be made hereafter to cover the costs and expenses of the Work.

Publication of Notice

SECTION 10. Published notice shall be made pursuant to Section 6061 of the Government Code. The publication of notice of hearing shall be completed at least 10 days prior to the date of hearings.

Certification

SECTION 11. The City Clerk shall certify to the adoption of this Resolution.

APPROVED AND ADOPTED this 10th day of May, 2022.

_____
Larry McCallon
Mayor

ATTEST:

_____
Betty Hughes, MMC
City Clerk

STAFF REPORT

TO THE CITY COUNCIL

MEETING DATE: May 10, 2022

FROM: Joseph Hughes, City Manager

REVIEWED BY: Carlos Zamano, Public Works Director/City Engineer CZ

PREPARED BY: Alondra Muñoz, Engineering Technician II AM

SUBJECT: Authorization to Submit Claims for TDA Article 3 Funds
Messina Street/Seine Avenue Sidewalk Gap (Project No. swk21001)

RECOMMENDATION: That the City Council (1) adopt Resolution No. 2022-____ authorizing submittal of periodic claims to SBCTA for TDA Article 3 funds for the Messina Street/Seine Avenue Sidewalk Gap Project, and (2) authorize the Public Works Director/City Engineer and the Director of Administrative Services/City Treasurer to execute the claim documents.

FISCAL IMPACT: Approval of the Resolution will authorize staff to submit periodic claims to SBCTA for TDA Article 3 funds that are awarded for the Messina Street/Seine Avenue Sidewalk Gap Project until the entire TDA Article 3 award amount of $77,989 is claimed.

PUBLIC NOTICE: Notices of City Council Meeting agenda were posted at the three locations required by Resolution No. 2011-047 and on the City's website.

BACKGROUND: The Messina Street/Seine Avenue Sidewalk Gap Project will include construction of 0.12 miles of new sidewalks and appurtenances that are necessary to close four sidewalk gaps at the following locations, the sidewalks will be constructed behind existing curbs and gutters:

1) On the north side of Messina Street from approximately 180 feet west of Seine Avenue to Seine Avenue
2) On the north side of Messina Street from approximately 190 feet east of Seine Avenue to Seine Avenue
3) On the south side of Messina Street from approximately 190 feet east of Seine Avenue to Seine Avenue

Approved _____	Motion _____	Second _____	Agenda Item No. 9
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		

City Clerk

City Manager

4) On the east side of Seine Avenue from approximately 95 feet south of Messina Street to Messina Street

The project will also construct new accessibility ramps at the following locations:

1) Northwest, northeast, and southeast corners of Messina Street/Seine Avenue intersection.
2) Northeast corner of Seine Avenue/McDonalds driveway intersection.

The transit access improvements proposed with this project will make pedestrian travel to transit stops safer and more convenient, increasing Omnitrans transit ridership.

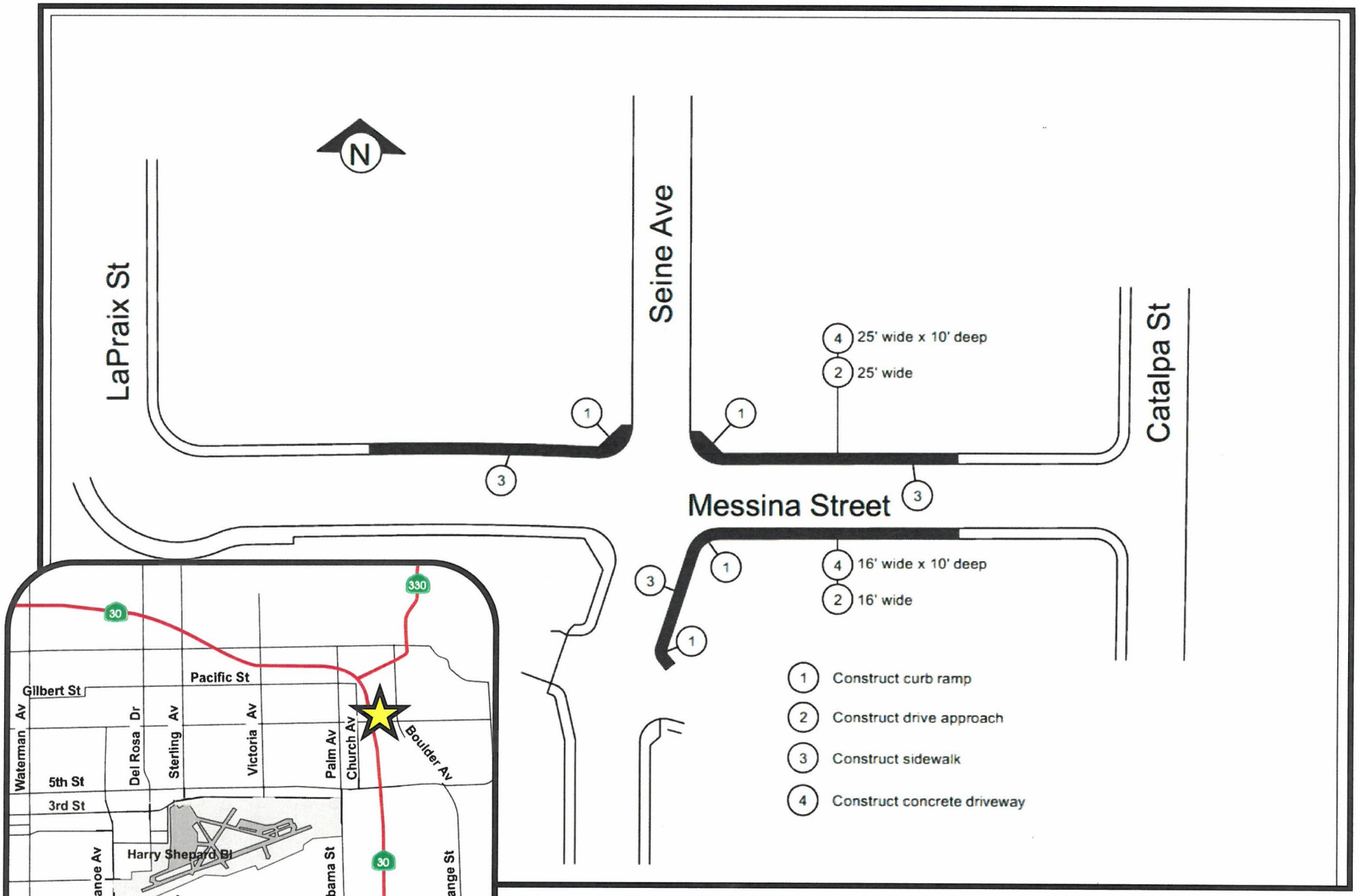
The overall total project cost including environmental, design, right-of-way, construction and construction management is estimated to be $141,500.00. Based on the current project cost estimates, funding sources for this project include:

• SBCTA TDA Article 3 Grant	77,989 (55%)
• City of Highland	63,511 (45%)
Total	$141,500 (100%)

The current project phase (environmental/design) is funded with SBCTA TDA Article 3 grant (55%) and City funds (45%). Project expenditures incurred as of 03/31/22 is $1,150.00 Upon City Council approval of the attached resolution, staff will submit to SBCTA the first claim of TDA Article 3 reimbursement funds in the amount of $632.50. The remaining balance of $77,356.50 TDA Article 3 funds will continue to be available for future reimbursement of project expenses.

MESSINA STREET/SEINE AVENUE SIDEWALK GAP PROJECT [swk21001]

LOCATION MAP



RESOLUTION NO. 2022- ____

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HIGHLAND AUTHORIZING SUBMITTAL OF CLAIMS TO SBCTA FOR TDA ARTICLE 3 FUNDS FOR THE MESSINA STREET/SEINE AVENUE SIDEWALK GAP PROJECT

WHEREAS, the Transportation Development Act (TDA) provides funding for the development and support of public transportation needs that exist in California and are allocated to each county based on population, taxable sales and transit performance; and

WHEREAS, San Bernardino County Transportation Authority (SBCTA) administers TDA funds for a wide variety of transportation programs in San Bernardino County, including planning and program activities, pedestrian and bicycle facilities, community transit services, public transportation, and bus and rail projects; and

WHEREAS, SBCTA has awarded the City of Highland $77,989 TDA Article 3 grant funds for development of the Messina Street/Seine Avenue Sidewalk Gap Project in the City of Highland; and

WHEREAS, development of the Messina Street/Seine Avenue Sidewalk Gap Project is currently underway, and a portion of City expenses are eligible for reimbursement with TDA Article 3 funds; and

WHEREAS, SBCTA allows submittal of claims for TDA Article 3 funds when authorized by the City Council.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Highland authorizes submittal of periodic claims to SBCTA for TDA Article 3 funds that are awarded for the Messina Street/Seine Avenue Sidewalk Gap Project until the entire award amount of $77,989 is claimed.

PASSED, APPROVED AND ADOPTED this 10th day of May, 2022.

_____
Larry McCallon
Mayor

_____
Betty Hughes, MMC
City Clerk

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph Hughes, City Manager

REVIEWED BY: Carlos Zamano, Public Works Director/City Engineer CZ

PREPARED BY: Jennifer Cioffi, Project Manager

SUBJECT: Design Services Proposal/TKE Engineering, Inc.
Sidewalk Improvement Project (swk21001)

RECOMMENDATION: It is recommended that the City Council:

1. Approve proposal from TKE Engineering, Inc. to provide engineering design services for the Transportation Development Act Article III Sidewalk Improvement Project (swk21001); and

2. Authorize the City Manager to approve contract amendments up to 10% of the proposal amount.

FISCAL IMPACT: The proposed fee, based on actual time and material, is not-to-exceed $24,566. The 10% contingency amount of $2,457 will be used to cover any additional services, if needed and requested by City staff, during the course of the project. The project will be funded using a combination of the following:

SBCTA TDA Article 3 Funds	$77,989 (55%)
Measure I Pass-Through	$63,511 (45%)
	$141,500 (100%)

PUBLIC NOTICE: The agenda for this item was posted at the three locations per Resolution No. 2011-047 and on the City's website.

BACKGROUND: The Messina Street/Seine Avenue Sidewalk Gap Project will include construction of 0.12 miles of new sidewalks and appurtenances that are necessary to close four sidewalk gaps at the following locations, the sidewalks will be constructed behind existing curbs and gutters:

Approved _____ Motion _____ Second _____ Agenda Item No. 10

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

D Hugh

City Clerk

City Manager

1) On the north side of Messina Street from approximately 180 feet west of Seine Avenue to Seine Avenue
2) On the north side of Messina Street from approximately 190 feet east of Seine Avenue to Seine Avenue
3) On the south side of Messina Street from approximately 190 feet east of Seine Avenue to Seine Avenue
4) On the east side of Seine Avenue from approximately 95 feet south of Messina Street to Messina Street

The project will also construct new accessibility ramps at the following locations:

1) Northwest, northeast, and southeast corners of Messina Street/Seine Avenue intersection.
2) Northeast corner of Seine Avenue/McDonalds driveway intersection.

The transit access improvements proposed with this project will make pedestrian travel to transit stops safer and more convenient, increasing Omnitrans transit ridership.

On November 3, 2021, the City received approval from SBCTA for a $77,989 TDA Article 3 Grant to pay for 55% of the design and construction costs.

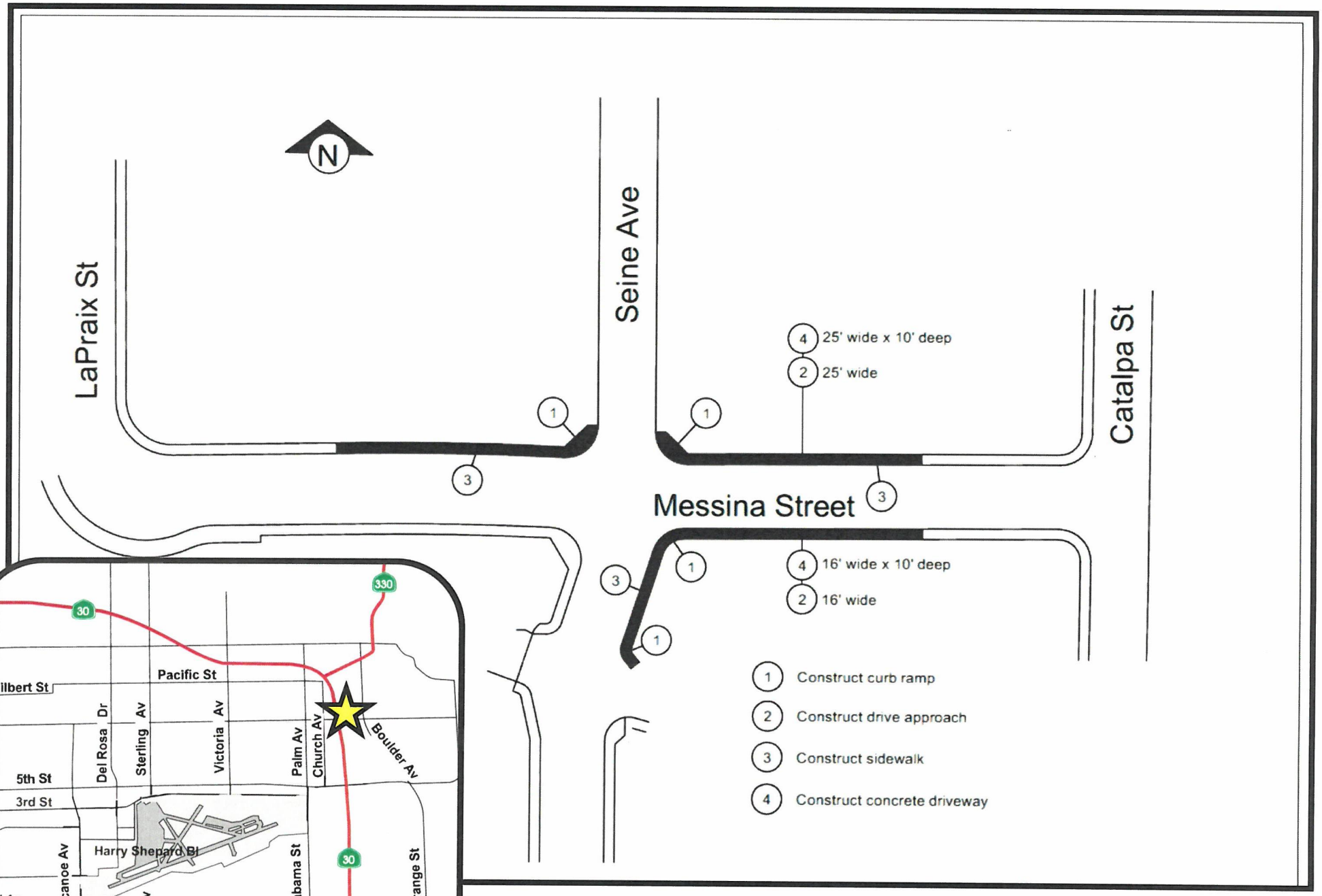
TKE Engineering, Inc. has proposed to provide the project design services for a not-to-exceed negotiated amount of $24,566. The scope of services includes records research, field reviews and measurements, preparing contract documents, plans, specifications and cost estimates, and providing technical assistance during the bid advertisement and construction phases.

TKE Engineering, Inc. has previously worked with the City on various engineering design, construction management, and support services. They have provided similar design services for numerous sidewalk improvement projects with an experienced team in their Riverside office.

Attachments: Location Map
TKE Engineering, Inc. Proposal

MESSINA STREET/SEINE AVENUE SIDEWALK GAP PROJECT [swk21001]

LOCATION MAP



April 13, 2022

Carlos Zamano, P.E., Public Works Director
CITY OF HIGHLAND
27215 Base Line
Highland, CA 92346

Subject: Proposal to Provide Professional Design Services for the Article III Sidewalk Improvements Project – swk21001

Dear Mr. Zamano,

Thank you for the opportunity to provide professional design services for the Article III Sidewalk Improvements Project, City of Highland Project Number swk21001. The project includes installation of a new sidewalk along Messina Street from approximately 200 feet east and west of Seine Avenue and along Seine Avenue from Messina Street southerly to the McDonald's driveway. The project includes curb ramp installation at the northwest, northeast and southeast corners of Messina Street and Seine Avenue and the curb ramp on the north side of the McDonalds Driveway.

SCOPE OF WORK

TKE's scope of services is presented in the following paragraphs:

Task No. 1 Records Research

We will thoroughly research existing utility records and acquire copies of all available records. The purpose of the records research is to assemble survey records to establish locations of street centerlines, street rights-of-way, and easements and determine locations of all existing utilities and improvements. The research will consist of assembling copies of assessors' maps, tract maps, parcel maps, easement documents, monument ties, benchmark data, corner records, street and storm drain improvement plans, and utility drawings. We will request the City provide copies of available pertinent City records, such as survey ties, benchmarks, and street, sewer and storm drain improvement plans.

We will notify Underground Service Alert to acquire a complete list of underground utility purveyors. The utility drawings will include existing drawings from the City, and drawings and/or atlas maps from all private utility companies, and/or agencies. We will confer and coordinate with the following agencies as well as any additional agencies listed in the Underground Service Alert:

- East Valley Water District
- Verizon Telephone
- AT&T and PacBell
- Sprint

2305 Chicago Ave - Riverside - CA - 92507
Ph. (951) 680-0440 - Fax (951) 680-0490
www.tkeengineering.com

- Southern California Gas Co.
- Southern California Edison
- Charter Cable Television

We will send first utility notice letters to all listed utility companies and agencies requesting their data. We will maintain copies of the letters and correspondence for future reference. We shall also provide the City with a complete copy of all correspondence with all utility companies.

Deliverables: *Record Data and Utility Information*

Task No. 2 Design Survey

TKE will conduct a conventional design survey of the project area due to the level of detail needed for precise grading design and property transitions. Our field survey crews will collect appropriate detail as required to prepare a topographic map for the entire reach. The topographic map shall extend 100-feet beyond end of centerline. In addition, we will collect 50-foot cross sections with shots extending to 10-feet beyond right-of-way. Survey data will include trees over 2-inches in diameter, walkways, sidewalks, driveways, curbs, gutters, cross gutters, slopes, fire hydrants, water valves, water meters, signs, street lights, landscape, fences, walls structure, and all other visible features.

Deliverables: *Ground Topography, Utilities and Data in ASCII Format with Description Codes.*

Task No. 3 Base Construction Drawings

We will prepare the base construction drawings on 24" by 36" sheets with the City's standard title block using AutoCAD 2021 software, at a drawing scale of 1"=20'. The base construction drawings will include a plan view based on the accumulated conventional survey data. We will add the sheet north arrow, graphic scale, existing improvements and utilities (based on both assembled records and field data), property lines, public and private right-of-way, easement areas, assessor parcel numbers, street centerline, street names, building locations, water service location; water valve lids; cross gutters; driveways, pedestrian ramps; traffic stripes and legends; curb returns; details of private improvements, fences, gates, irrigation systems, mailboxes, trees and landscaping, and survey data to the drawings. Once the base drawings are complete, we will perform a careful field review to ensure all facilities are shown correctly.

Deliverables: *Base Construction Drawings in Plan View,*

Task No. 4 65% Design

65% Design will include preparation of preliminary construction drawings, preliminary technical specifications, and preliminary construction estimates.

Construction drawings will show proposed sidewalk alignments including locations of proposed ramps, drive approaches, and all removals and relocations required to construct the improvements. In addition, preliminary grades will be prepared to establish project grading requirements. Proposed improvements will be designed in accordance with the City's current design standards and specifications. The proposed improvements will be designed to minimize removals, grading and earthwork.

For the drawings, we will prepare a title sheet, construction notes sheet, demolition sheet, plan/profile sheet, and necessary detail sheets.

The title sheet shall include the title of the job, a vicinity map showing the City in relationship to surrounding communities, a location map showing the project limits, a list of abbreviations used, benchmark data, general notes, construction notes and quantities, an index for the drawings, list of utilities with phone numbers, and references on the City's standard title block.

The construction note sheet will show general construction notes and project specific requirements.

The demolition sheet will show existing improvement demolition including limits of pavement removal, saw cutting locations and limits for concrete sidewalks, cross gutters and curbs, if required. In addition, the plan will specify relocation of private improvements such as mailboxes, trees, fences, gates, drive approaches, and landscaping. as required.

Plan/profile sheet will show proposed improvements at 1"=20' scale including curb, gutter, sidewalk, ramps, driveways, signing, striping, and existing utility adjustments. The sheets will include full geometric layout for the project limits. For the profile portion of the drawings, we will show existing and proposed elevations at top of curb and back of walk for any potential grade issues with appropriate design data.

The construction details will include cross gutter/spandrel modifications, sidewalk connections and ramp details, all at appropriate drawing scales.

For the specifications, we will amend the City Standards Technical Provisions as required for the projects. The construction specifications will be prepared in Microsoft Word (2020 Version) format in accordance with City standards.

In addition, we will prepare quantity estimates for all proposed improvements prepared using an excel spreadsheet showing an itemized construction cost breakdown. Descriptions of work, unit prices, and quantities will be included in the spreadsheet.

Deliverables: *65% Design Sheets*

Task No. 5 Coordination with Agencies/Utilities

After 65% design is complete, plans will be sent to agencies having facilities in the project areas requesting that they verify their facilities are shown correctly and that they furnish any construction requirements they desire. We will highlight each

agency's facilities and advise each of potential conflicts and relocation requirements. We will request that they respond within two weeks and we will follow up with telephone calls to confirm all agency requirements have been incorporated. We will document all conferences with utilities and agencies and copy the City via e-mail.

Deliverables: *Utility Coordination Matrix*

Task No. 6 65% Design Review Meeting

After the City has completed its review, we will meet with City staff to acquire Staff's comments.

Deliverables: *Meeting Agenda, Minutes and Action Items*

Task No. 7 95% Design

95% design will include incorporation of City comments, final curb, gutter, sidewalk driveway and ramp design.

We will verify that the project will comply with ADA design requirements and that adequate drainage will be achieved.

95% Design will be submitted with a project summary memorandum together with updated project specifications and estimates

Deliverables: *95% Design Sheets*

Task No. 8 95% Design Review Meeting

After the City has completed its review, we will meet with City staff to acquire Staff's comments.

Deliverables: Meeting Agenda, Minutes and Final Design Approval

Task No. 9 100% Design

100% design will include incorporation of City comments, final plans, specifications, and estimates, ready for public bidding. Final documents will include hard copy plans and specifications with signatures and electronic copies of final documents.

100% Design will be submitted with a project summary memorandum together with an updated project schedule.

Deliverables: *One (1) Full-Size 100% Drawings; Hard Copy of Specifications and Estimate, Electronic Files of Final Plans, Specifications and Estimate*

Task No. 10 Final Coordination with Agencies/Utilities

After the final drawings are approved by the City, we will again submit them to all agencies/utilities having underground and overhead facilities in the project area to advise them of the project construction schedule and relocation requirements. In addition, we will coordinate final relocation construction prior to project bidding. We will document all meetings and conferences with utilities and agencies.

Deliverables: *Utility Coordination Matrix*

Task No. 11 Assistance During Bidding

Upon request, TKE shall post final documents to plan rooms and assist the City with responses to requests for information, addendum preparation, and design changes during construction. TKE will review RFI's and RFC's and assist the City with preparing a response as requested. TKE will also assist with preparation of an addenda required to be sent to the Contractor's.

Deliverables: *Tabulated Response to RFI's, Addendums, as Necessary*

Task No. 12 Assistance During Construction

Upon request, TKE shall attend the preconstruction meeting to answer any design related questions. TKE will also review RFI's and RFC's and assist the City with preparing a response as requested. Upon receipt of any field changes, TKE will prepare "as-built" stamped mylars documenting the project as it was constructed.

Deliverables: *Tabulated Response to RFI's, Addendums, as Necessary and "As-Built" Mylars*

FEE

TKE's fee to provide the scope of service described above is shown on the attached fee table breakdown. TKE will invoice monthly in accordance with our rate schedule and will not exceed our fee without prior approval from the City.

Again, thank you for the opportunity to submit our proposal to provide professional surveying services. If you have any questions, please contact me at (951) 680-0440.

Sincerely,

Terry Renner, P.E., Q.S.D.
Senior Vice President
TKE Engineering, Inc.

City of Highland

Professional Design Services for the Article III Sidewalk Improvements Project – swk21001

Consulting Engineering Fee

Project No. swk21001

Task No.	Task	Project Manger Hours	Project Manger $	Project Engineer Hours	Project Engineer $	Assistant Engineer Hours	Assistant Engineer $	Clerical Hours	Clerical $	Survey Crew Hours	Survey Crew $	Total $
Scope of Services												
Task No. 1	Records Research		$ -	1	$ 140	6	$ 720	8	$ 600		$ -	$ 1,460
Task No. 2	Design Survey	1	$ 150		$ -	2	$ 240		$ -	12	$ 2,760	$ 3,150
Task No. 3	Base Construction Drawings	1	$ 150	1	$ 140	20	$ 2,400		$ -		$ -	$ 2,690
Task No. 4	65% Design	2	$ 300	6	$ 840	24	$ 2,880	8	$ 600		$ -	$ 4,620
Task No. 5	Coordination with Agencies/Utilities		$ -	2	$ 280	2	$ 240	8	$ 600		$ -	$ 1,120
Task No. 6	65% Design Review Meeting	2	$ 300	2	$ 280		$ -	1	$ 75		$ -	$ 655
Task No. 7	95% Design	2	$ 300	4	$ 560	16	$ 1,920	8	$ 600		$ -	$ 3,380
Task No. 8	95% Design Review Meeting	2	$ 300	2	$ 280		$ -	1	$ 75		$ -	$ 655
Task No. 9	100% Design	2	$ 300	2	$ 280	6	$ 720	4	$ 300		$ -	$ 1,600
Task No. 10	Final Coordination with Agencies/Utilities		$ -	2	$ 280	2	$ 240	8	$ 600		$ -	$ 1,120
Task No. 11	Assistance During Bidding	4	$ 600	4	$ 560	2	$ 240	4	$ 300		$ -	$ 1,700
Task No. 12	Assistance During Construction	4	$ 600	4	$ 560	2	$ 240	4	$ 300		$ -	$ 1,700
	Subtotal:	20	$ 3,000	29	$ 4,060	76	$ 9,120	46	$ 3,450	12	$ 2,760	$ 23,850
											Reimbursables (@3%)[1.]:	$ 716
											Design Services Total:	$ 24,566

Rates:

Project Manager	$ 150 /HR
Project Engineer	$ 140 /HR
Assistant Engineer	$ 120 /HR
Clerical	$ 75 /HR
Survey Crew	$ 230 /HR

Notes:

1.) Reimbursables Include Cost for Prints, Copies, Mileage, Etc.

TKE Engineering, Inc.

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph Hughes, City Manager

REVIEWED BY: Carlos Zamano, Public Works Director/City Engineer CZ

PREPARED BY: Alondra Muñoz, Engineering Technician II AM

SUBJECT: Notice of Completion – Project No. str20001 (Bid No. 2020-10 "Pavement Management Program - Sector E Pavement Rehabilitation")

RECOMMENDATION: It is recommended that the City Council:

1. Accept Project No. str20001 (Bid No. 2020-10, "Pavement Management Program - Sector E Pavement Rehabilitation") as complete;
2. Authorize the Mayor to sign the Notice of Completion; and
3. Direct the City Clerk to file the Notice of Completion.

FISCAL IMPACT: The original contract amount was $2,082,099. The final contract amount is $2,314,782.57, with a $232,683.57 (11.2%) increase based on final quantities. Construction of this project is funded by the following funding sources:

City Measure I Local Street Pass-thru	$1,296,735.57	(56.02%)
SB-1 Gas Tax (FY 2020-21)	562,968.00	(24.32%)
SB-1 Gas Tax (FY 2021-22)	207,864.00	(8.98%)
General Capital Financing (MOE)	145,025.00	(6.27%)
CalRecycle Grant	67,110.00	(2.90%)
East Valley Water District	35,080.00	(1.52%)
	$2,314,782.57	(100.00%)

PUBLIC NOTICE: The agenda for this item was posted at the three locations per Resolution No. 2011-047 and on the City's website.

Approved _____ Motion _____ Second _____ Agenda Item No. 11

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

B Hugl

City Clerk

City Manager

BACKGROUND: Implementation of the 5-Year City-wide Pavement Management Program (PMP) is an UP- priority item in the 2019/2020 Work Program. This 5-Year Program includes $13,520,000 of preventive maintenance and rehabilitation improvements to existing pavement on various street segments located City-wide that are grouped into 5 Sectors: A, B, C, D and E. Implementation of the City's PMP commenced in FY 2016-17. To date, the City has completed pavement rehabilitation work in Sectors A, B, C and D. Sector E is the last phase of the approved 5-Year PMP.

Project str20001 consists of the following scope of work:

1) Pavement rehabilitation on 25 street segments approximately 3.6 miles.

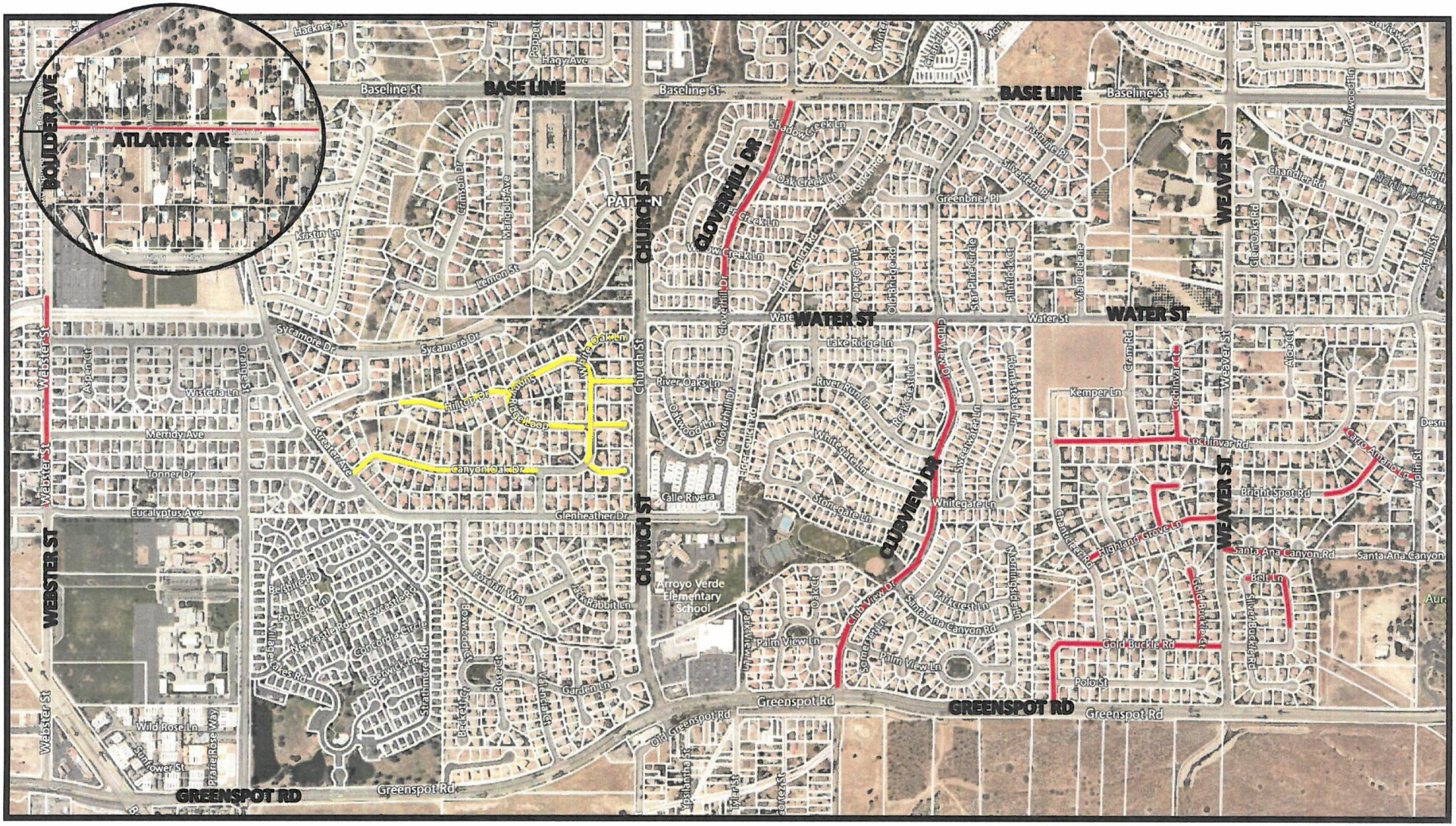
2) Other associated work includes removal and replacement of damaged concrete sidewalk, cross gutter, and curb and gutter, construction of ADA ramps, grinding raised sidewalk panels, slurry seal, crack repair, crack seal, and installation of pavement striping and marking.

On February 22, 2022, the City Council approved contract change orders up to 20% of the original construction contract with All American Asphalt, Inc. The increase was primarily due to the discovery of unforeseen wet subgrade in the project. Staff was able to negotiate a lower unit cost to treat the wet subgrade with cement. We also did not encounter as much wet subgrade as originally assumed. The final contingency for the project was 11.2%. It should be noted that EVWD's share of the project cost increased. When EVWD's project share is excluded, the City's contingency is 9.49%.

Construction of the project has been completed by the contractor, All American Asphalt, Inc., and the project is ready for City Council acceptance.

Attachments: Location Map
Notice of Completion

M:\PUBWRK\str20001 - PMP Sector E Rehab\Construction\Notice of Completion Stf Rpt 5.10.22.doc



str20001—PMP SECTOR E—PAVEMENT REHABILITATION

PROJECT LOCATION MAP

New street segments

Original street segments

RECORDING REQUESTED BY:
Betty Hughes

AND WHEN RECORDED MAIL TO:
Betty Hughes
City Clerk
City of Highland
27215 Base Line
Highland, CA 92346

Space above this line for Recorder's use

No APN

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN THAT:

1. The undersigned is owner or agent of the owner of the interest or estate stated below in the property hereinafter described.
2. The full name of the owner is City of Highland.
3. The full address of the owner is 27215 Base Line, Highland, CA 92346.
4. All work of improvement on the property hereinafter described was substantially completed on or before April 13, 2022.
5. The work of improvement completed is described as follows: Bid No. 2020-10, "Pavement Management Program - Sector E Pavement Rehabilitation (Project No. str20001)".
6. The name of the original contractor for such work of improvement is All American Asphalt, Inc.
7. The property on which said work of improvement is located on various streets in the City of Highland.

Date: May 10, 2022

Larry McCallon
Mayor, City of Highland

I, the undersigned, declare under penalty of perjury under the laws of the State of California that I am the Mayor of the aforesaid interest or estate in the property described in the above notice; that I have read the said notice, that I know and understand the contents thereof, and that the facts stated therein are true and correct.

May 10, 2022; Highland, CA
Date and Place

Larry McCallon
Mayor, City of Highland

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Chuck Dantuono, Director of Administrative Services/City Treasurer

SUBJECT: Sheriff's Department Schedule A amendment for FY 2022-2023 & Amendment No. 1 to the Reimbursement Agreement Between the City of Highland & East Valley Water District for Law Enforcement Services for FY 2022-2023.

RECOMMENDATION:

1. The City Council authorize the Mayor to execute the amended Schedule A contract (FY 2022-2023) for Law Enforcement Services with the San Bernardino County Sheriff's Department; &

2. Approve Amendment No. 1 to the Reimbursement Agreement Between the City of Highland & East Valley Water District for Law Enforcement Services (FY 2022-2023).

FISCAL IMPACT: The fiscal impact of the amended Schedule A for FY 2022-2023 is $11,567,858 of which $285,356 will be reimbursed by EVWD. There are sufficient funds in the FY 2022-2023 budget for this.

PUBLIC NOTICE: The agenda for this item was posted at the three required locations.

BACKGROUND: The proposed FY 2022-2023 Schedule A reflects an overall increase of $336,568 ($11,567,858-$11,231,290) or 3.0% from the 2021-2022 Schedule A. However, the FY 2021-2022 Schedule A only included one-half of the Deputy paid by EVWD because that Deputy started mid-year, on January 1, 2022. If that Deputy would have started on July 1, 2021, the increase would be $209,514 ($11,567,858-$11,358,344) or 1.8%. This is a more "apples to apples" comparison.

The reasons for the $209,514 increase (by line item) are included in attachment C. Other than the Deputy paid by EVWD being included for the full year, there are no proposed changes to the Schedule A for FY 2022-2023.

Approved _____	Motion_____	Second _____	Agenda Item No. 12
Denied _____	Ayes_____		
Continued_____	Noes _____		File No. _____
Tabled_____	Abstain_____		
	Absent_____		
City Clerk		City Manager	

The cost of the Deputy paid by EVWD is $285,356. EVWD has been made aware of this cost and will remit payment to the City on or around July 1, 2022. The costs include the position (salary & benefits), a marked unit, equipment, and all insurance such as personal liability and vehicle. EVWD has agreed to supply a workspace for the deputy and understands that ultimate command and control of the deputy will remain at the discretion of the Highland Police Department Command Staff. The deputy will continue to be utilized to assist with security at all EVWD sites, conduct criminal investigations involving EVWD property, assist EVWD personnel with some customer conflicts and stand-by on some water shut offs.

Attachments:
A. FY 2022-2023 Schedule A (proposed) 39th amendment.
B. FY 2021-2022 Schedule A (actual) 38th amendment.
C. Comparison of FY 2021-2022 Schedule A (actual) to FY 2022-2023 Schedule A (proposed).
D. FY 2022-2023 Amendment No. 1 to the Reimbursement Agreement Between the City of Highland & East Valley Water District for Law Enforcement Services (proposed).

Attachment A

FY 2022-2023 Schedule A (proposed) 39th amendment.

THE INFORMATION IN THIS BOX IS NOT A PART OF THE CONTRACT AND IS FOR COUNTY USE ONLY

SAN BERNARDINO COUNTY

Contract Number
94-522 A-39

SAP Number
N/A

Sheriff/Coroner/Public Administrator

Department Contract Representative	Kelly Welty, Chief Deputy Director of Sheriff's Administration
Telephone Number	(909) 387-0640
Contractor	City of Highland
Contractor Representative	Larry McCallon, Mayor
Telephone Number	(909) 864-6861
Contract Term	07/01/2022 through 06/30/2023
Original Contract Amount	$11,567,858
Amendment Amount	
Total Contract Amount	$11,567,858
Cost Center	4413161000

IT IS HEREBY AGREED AS FOLLOWS:

AMENDMENT No. 39

Effective July 1, 2022, Contract No. 94-522 to provide law enforcement service to the City of Highland is hereby amended by replacing Schedule A referred to in Section II. CONSIDERATION, with the Schedule A attached hereto and incorporated by reference

Except as amended, all other terms and conditions of this contract remain as stated therein.

[With the exception of signatures, this page is intentionally left blank].

SAN BERNARDINO COUNTY

►

Curt Hagman, Chairman, Board of Supervisors

Dated:

SIGNED AND CERTIFIED THAT A COPY OF THIS DOCUMENT HAS BEEN DELIVERED TO THE CHAIRMAN OF THE BOARD

Lynna Monell
Clerk of the Board of Supervisors
of the San Bernardino County

By

Deputy

City of Highland
(Print or type name of corporation, company, contractor, etc.)

By ►

(Authorized signature - sign in blue ink)

Name Larry McCallon
(Print or type name of person signing contract)

Title Mayor
(Print or Type)

Dated:

Address 27215 Base Line Street

Highland, CA 92346

FOR COUNTY USE ONLY

Approved as to Legal Form	Reviewed for Contract Compliance	Reviewed/Approved by Department
►	►	►
Richard D. Luczak, Deputy County Counsel		Kelly Welty, Chief Deputy Director of Sheriff's Administration
Date	Date	Date

SCHEDULE A
Law Enforcement Services Contract
City of Highland
2022-23

ROLLOVER

LEVEL OF SERVICE				FY 2022-23 COST	
1	-	Captain	$	472,105	[1]
1	-	Lieutenant		352,196	[1]
6	-	Sergeant		1,804,980	[1]
3	-	Detective/Corporal		759,039	[1]
24	-	Deputy Sheriff Tier 2		5,180,112	[1]
4	-	Sheriff's Service Specialist		344,924	[1]
1	-	Secretary		79,601	[1]
4	-	Office Specialist		317,816	[1]
14	-	Marked Unit		256,843	[2]
7	-	Unmarked Unit		53,685	[2]
1	-	Mini Van		5,398	[2]
2	-	Command Staff Vehicle		20,137	[2]
3	-	Pickup truck		24,271	[2]
2	-	Citzen Patrol - Ford Escape		12,738	[2]
1	-	Citizen Patrol Donated SUV (Equip & Comm Only)		1,625	[3]
		Dispatch Services		461,652	[1]
60	-	HTs (Amortization, Access & Maintenance)		84,540	
33	-	Taser Replacement (Amortized over 5-years)		11,088	
		Administrative Support		60,114	
		Office Automation		169,854	
		Services & Supplies		48,600	
		Vehicle Insurance		154,905	
		Personnel Liability & Bonding		324,370	
		Workers' Comp Experience Modification		40,340	
		Law Enforcement Experience Modification		200,492	
		County Administrative Cost		326,433	
		Cost for FY2022-23	**$**	**11,567,858**	[1]

Monthly Payment Schedule

1st payment due July 15, 2022:	$963,990
2nd through 12th payments due the 5th of each month:	$963,988

[1] Personnel costs include salary and benefits and are subject to change by Board of Supervisors' action. Changes in salary and benefit costs will be billed to the City on a quarterly invoice.

[2] Vehicle costs do not include fuel and maintenance. The City is responsible for fuel, repair and maintenance of all contract vehicles, including collision damage. All fuel, repair and maintenance costs incurred by the County will be billed to the City on a quarterly invoice.

[3] No replacement cost is included for grant funded or donated vehicles.

SCHEDULE A
Law Enforcement Services Contract
City of Highland
2022-23

Additional Costs Billed Quarterly:

The City will be billed on a quarterly basis for the following items:

- Increases to salaries and benefits resulting from Board of Supervisors-approved changes to Memorandums of Understanding with the County's various employee organizations.
- Actual overtime cost.
- Actual on-call cost (on call pay for safety employees for 2022-23 is $195 per week).
- Actual cost of vehicle fuel, repair and maintenance, including the cost of collision repair.
- Professional services from private vendors and other services, supplies and personnel costs above the contract formula.

LEVEL OF SERVICE SUMMARY

SAFETY:		
Captain	-	1.00
Lieutenant	-	1.00
Sergeant	-	6.00
Detective/Corporal	-	3.00
Deputy Sheriff Tier 2	-	24.00
		35.00

GENERAL:		
Sheriff's Service Specialist	-	4.00
Secretary I	-	1.00
Office Specialist	-	4.00
Dispatchers	-	4.00
		13.00

VEHICLES:		
Marked Patrol Units	-	14
Safety Unmarked Units	-	7
Command Staff Units	-	2
Unmarked Units Non-code (Van)	-	1
Pickup Trucks	-	3
Citizen Patrol	-	2
Donated Vehicles-Ins Only	-	8 *
		37

DONATED VEHICLES LIST:		
Citizen Patrol SUV	-	1 *
Command Post	-	1 *
Light Tower Trailer	-	2 *
Utility Trailer-Smart	-	1 *
Utility Trailer-Zieman		1 *
Utility Trailer-Mighty Mover		1 *
Kawasaki UTV		1 *
		8 *

* (Included for insurance costs only)

Attachment B

FY 2021-2022 Schedule A (actual) 38th amendment.

SCHEDULE A
Law Enforcement Services Contract
City of Highland
2021-22

CHANGE: ADD 1-Deputy Sheriff, 1 Marked Unit & 1 HT Effective 01-01-2022

LEVEL OF SERVICE				FY 2021-22 COST	
1	-	Captain	$	432,454	[1]
1	-	Lieutenant		348,030	[1]
6	-	Sergeant		1,784,106	[1]
3	-	Detective/Corporal		751,308	[1]
24	-	Deputy Sheriff Tier 2 **(1 Effective 01-01-22)**		5,140,920	[1]
4	-	Sheriff's Service Specialist		351,960	[1]
1	-	Secretary		80,985	[1]
4	-	Office Specialist		322,888	[1]
14	-	Marked Unit		241,768	[2]
7	-	Unmarked Unit **(1 Effective 01-01-22)**		53,320	[2]
1	-	Mini Van		5,395	[2]
2	-	Command Staff Vehicle		19,947	[2]
3	-	Pickup truck		24,203	[2]
2	-	Citizen Patrol - Ford Escape		12,732	[2]
1	-	Citizen Patrol - Donated (Equip & Comm Only)		1,622	[3]
		Dispatch Services		470,936	[1]
60	-	HTs (Amortization, Access & Maintenance)		84,540	
33	-	Taser Replacement (Amortized over 5-years)		11,088	
		Administrative Support		44,430	
		Office Automation		162,986	
		Services & Supplies		48,600	
		Vehicle Insurance		154,905	
		Personnel Liability & Bonding		309,428	
		Workers' Comp Experience Modification		32,680	
		Law Enforcement Experience Modification		128,849	
		County Administrative Cost		326,109	
		Startup Cost		12,155	
		Cost for FY2021-22	**$**	**11,358,344**	[1]
		Less credit 1 Deputy Sheriff & 1 Marked Unit Jul - Dec 2021	**$**	**(127,054)**	
		Revised Cost for FY2021-22	**$**	**11,231,290**	

Monthly Payment Schedule

1st payment due July 15, 2021:	$923,175
2nd through 6th payments due the 5th of each month:	$923,169
7th through 12th payments due the 5th of each month:	$948,712

[1] Personnel costs include salary and benefits and are subject to change by Board of Supervisors' action. Changes in salary and benefit costs will be billed to the City on a quarterly invoice.

[2] Vehicle costs do not include fuel and maintenance. The City is responsible for fuel, repair and maintenance of all contract vehicles, including collision damage. All fuel, repair and maintenance costs incurred by the County will be billed to the City on a quarterly invoice.

[3] No replacement cost is included for grant funded or donated vehicles.

Attachment C

Comparison of FY 2021-2022 Schedule A (actual) to FY 2022-2023 Schedule A (proposed).

	Proposed 2022/2023	Actual* 2021/2022	Increase/ (Decrease) $	Increase/ (Decrease) %
Captain	**472,105**	**432,454**	39,651	9.17%
Lieutenant	**352,196**	**348,030**	4,166	1.20%
Sergeants	**1,804,980**	**1,784,106**	20,874	1.17%
Detectives	**759,039**	**751,308**	7,731	1.03%
Deputies	**5,180,112**	**5,140,920**	39,192	0.76%
Sheriff Service Specialists	**344,924**	**351,960**	(7,036)	-2.00%
Secretary	**79,601**	**80,985**	(1,384)	-1.71%
Office Specialists	**317,816**	**322,888**	(5,072)	-1.57%
Marked Units	256,843	241,768	15,075	6.24%
Unmarked Units	53,685	53,320	365	0.68%
Mini Van	5,398	5,395	3	0.06%
Command Staff Vehicles	20,137	19,947	190	0.95%
Pickup Truck	24,271	24,203	68	0.28%
Citizen Patrol Vehicles	14,363	14,354	9	0.06%
Dispatch Services	**461,652**	**470,936**	(9,284)	-1.97%
HTs	84,540	84,540	-	0.00%
Tasers	11,088	11,088	-	0.00%
Admin Support	**60,114**	**44,430**	15,684	35.30%
Office Automation	169,854	162,986	6,868	4.21%
Services & Supplies	48,600	48,600	-	0.00%
Vehicle Insurance	154,905	154,905	-	0.00%
Personnel Liability & Bonding	324,370	309,428	14,942	4.83%
Workers Comp Exp Modification	40,340	32,680	7,660	23.44%
Law Enforcement Exp Modification	200,492	128,849	71,643	55.60%
COWCAP	326,433	326,109	324	0.10%
Startup Costs	-	12,155	(12,155)	-100.00%
	11,567,858	11,358,344	**209,514**	1.84%

*based on full-time EVWD paid Deputy

Attachment D

FY 2022-2023 Amendment No. 1 to the Reimbursement Agreement Between the City of Highland & East Valley Water District for Law Enforcement Services (proposed).

AMENDMENT NO. 1

REIMBURSEMENT AGREEMENT BETWEEN THE CITY OF HIGHLAND AND EAST VALLEY WATER DISTRICT FOR LAW ENFORCEMENT SERVICES

This Amendment is made and entered into this 10th day of May 2022 ("Amendment No. 1") by and between the CITY OF HIGHLAND, a municipal corporation ("City") and EAST VALLEY WATER DISTRICT, a California special district ("EVWD"). The City and EVWD may be collectively referred to as "the Parties".

1. RECITALS

A. On September 28, 2021, the City and EVWD entered into a Reimbursement Agreement for law enforcement services ("Agreement"). Beginning January 1, 2022, the City, through its Contract with the County, will provide one Sheriff's deputy to patrol EVWD's Sterling Natural Resource Center and provide law enforcement services to EVWD's 41 sites. EVWD would then be responsible for reimbursing the City for the full cost of the Sheriff's deputy.

B. On April 6, 2022, City Staff met with the San Bernardino County Sheriff to discuss the Schedule A contract for Fiscal Year 2022-2023.

C. According to the San Bernardino County Sheriff's Department, the full cost of one (1) Deputy for Fiscal Year 2022-2023 is $285,356.00

2. FIRST AMENDMENT

A. Section 3, Payment of the Agreement is hereby amended to read as follows:

"3. Payment. On or before July 1, 2022, EVWD shall pay to the City Two Hundred Eighty-Five Thousand Three Hundred and Fifty-Six Dollars ($285,356.00) for the full cost of the Sheriff's deputy. The cost break down is attached hereto as Exhibit "B". Thereafter, on or before July 1st of each subsequent year, EVWD shall pay to the City the full cost of the Sheriff's deputy based on the revised schedule of payment. The parties acknowledge that the cost of the Sheriff's deputy may change each year and that the full cost that the City pays the County for the Sheriff's deputy shall be passed through to EVWD. Beginning in June 2022, no later than June 1st of each year, the City shall provide to EVWD a new schedule of payment for the Sheriff's deputy that will replace Exhibit "B" hereto. Beginning in June 2022, no later than July 1st of each year, EVWD shall pay to the City the amount set forth in Exhibit "B".

The City's Contract with the County provides that personnel costs include salary and benefits are subject to change by Board of Supervisor action. The Contract further provides that changes in salary and benefit costs will be billed to the City on a

quarterly basis. If the cost for the Sheriff's deputy increases in any year after payment has been made by EVWD to the City, the City shall promptly notify EVWD of the additional cost and EVWD shall pay the City the additional cost within thirty days of receipt of the City's notice."

B. Exhibit "B" of "Amendment No. 1" shall replace Exhibit "B" of the Agreement dated September 28, 2021.

C. All other Exhibits and provisions of the Agreement shall remain in full force and effect.

3. SEVERABILITY

If any provision of "Amendment No. 1" shall be adjudged to be invalid, void, or illegal, it shall in no way affect, impair or invalidate any other provision(s) hereof, the parties hereby agreeing that they would have entered into the remaining portion of "Amendment No. 1" notwithstanding the omission of the portion or portions adjudged invalid, void, or illegal.

4. COUNTERPARTS

"Amendment No. 1" may be executed in any number of counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, taken together, shall be deemed to be one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have executed "Amendment No. 1" on the date and year first above written.

CITY OF HIGHLAND

_____
Joseph A. Hughes, City Manager

EAST VALLEY WATER DISTRICT

_____
John Mura, General Manager/CEO

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
City Attorney

Exhibit "B"
Payment Schedule
FY 2022-2023 (July 1, 2022 - June 30, 2023)

Deputy Sheriff: **$215,838**

Services & Supplies: **$1,800**

Marked Patrol Unit: **$18,346**

Plus, other costs such as: HT radio and taser, Dispatch Services, Administrative support, Vehicle and Personnel Liability and Insurance of approximately **$49,372**.

Total Cost for the above deputy and equipment in FY 2022-2023 (July 1, 2022 - June 30, 2023) is **$285,356.00.**

SCHEDULE A
LAW ENFORCEMENT SERVICES CONTRACT
CITY OF HIGHLAND
FY 2022-23

Cost of 1-Deputy Sheriff for Water Company Assignment

LEVEL OF SERVICE		FY 2022-23 COST	
1 -	Deputy Sheriff Tier 2	215,838	[1]
1 -	Marked Unit	18,346	[2]
	Dispatch Services	17,098	[1]
1 -	HTs (Amortization, Access & Maintenance)	1,409	
1 -	Taser Replacement (Amortized over 5-years)	336	
	Administrative Support	2,226	
	Services & Supplies	1,800	
	Vehicle Insurance	5,623	
	Personnel Liability & Bonding	9,136	
	Workers' Comp Experience Modification	961	
	Law Enforcement Experience Modification	4,776	
	County Administrative Cost	7,807	
	Cost for FY2022-23	**$ 285,356**	[1]

Monthly Payment Schedule

1st payment due July 15, 2022:	$23,787
2nd through 12th payments due the 5th of each month:	$23,779

[1] Personnel costs include salary and benefits and are subject to change by Board of Supervisors' action. Changes in salary and benefit costs will be billed to the City on a quarterly invoice.

[2] Vehicle costs do not include fuel and maintenance. The City is responsible for fuel, repair and maintenance of all contract vehicles, including collision damage. All fuel, repair and maintenance costs incurred by the County will be billed to the City on a quarterly invoice.

[3] No replacement cost is included for grant funded or donated vehicles.

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Chuck Dantuono, Director of Administrative Services/City Treasurer CD

SUBJECT: Resolution No. 2022-_____ Fixing the Highland Paramedic Special Tax Rate for Fiscal Year 2022-2023

RECOMMENDATION: That the City Council adopt Resolution No. 2022-_____ fixing the Highland Paramedic Special Tax rate for Fiscal Year 2022-2023.

FISCAL IMPACT: The Special Tax is estimated to generate approximately $360,000 for Fiscal Year 2022-2023.

PUBLIC NOTICE: The Public Hearing ad for this item was published in the Highland Community News as well as posted per City Council Resolution No. 2011-047.

BACKGROUND: When the City of Highland detached from County Service Area 38, Improvement Zone L, the existing taxing authority was transferred to Highland for a special tax to provide paramedic services to the community. The attached Resolution sets the special tax rate for next fiscal year at $19.00 per individual dwelling unit and $38.00 per individual commercial unit. This is the maximum rate that can be charged under the voter-approved taxing authority.

The tax rate has not changed since the tax was implemented by the County of San Bernardino in 1985 and this tax will generate approximately 16.15% of the estimated costs of $2,228,825 to provide paramedic services for Fiscal Year 2022-2023. The shortfall in funding paramedic services is made up from the general property taxes the City receives for fire services.

The California Department of Forestry & Fire Protection (Cal-Fire) along with the City's consultant, Harris and Associates, will prepare the parcel list with the dwelling and commercial unit information for the tax rolls.

Approved _____	Motion _____	Second _____	Agenda Item No. 13
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		
B Hughes			
City Clerk		City Manager	

RESOLUTION NO. 2022-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HIGHLAND, CALIFORNIA, FIXING THE HIGHLAND PARAMEDIC SPECIAL TAX RATE FOR FISCAL YEAR 2022-2023

SECTION 1. The City Council of the City of Highland, California, hereby finds and determines:

(a) That on November 5, 1985, the electors of County Service Area 38, Improvement Zone L ("Zone L"), duly authorized a special tax levy for financing paramedic services; and

(b) That the amount of such tax established and approved by the electors shall not exceed $19.00 per individual dwelling unit and $38.00 per individual commercial unit, per year; and

(c) That on July 1, 1999, the City of Highland (the "City") detached from County Service Area 38, Improvement Zone L, and now provides paramedic services within the detached area; and

(d) That upon detachment from County Service Area 38, Improvement Zone L, the City of Highland was transferred the taxing authority for the special tax; and

(e) That the estimated total budget cost of providing paramedic services for Fiscal Year 2022-2023 is $2,228,825.

SECTION 2. The City Council of the City of Highland therefore, hereby resolves and orders:

(a) That to meet the estimated budget amount, the special tax for Fiscal Year 2022-2023 shall be set at $19.00 per individual dwelling unit and $38.00 per individual commercial unit; and

(b) That this resolution shall be effective on July 1, 2022.

PASSED, APPROVED AND ADOPTED this 10th day of May 2022.

_____
Larry McCallon
Mayor

ATTEST:

_____
Betty Hughes, MMC
City Clerk

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph Hughes, City Manager

REVIEWED BY: Carlos Zamano, Public Works Director/City Engineer CZ

PREPARED BY: Jim Richardson, Public Works Manager JR

SUBJECT: Contract Award – Bid No. 2022-03 "Highland City Hall HVAC Rooftop Package Unit Replacement Project"

RECOMMENDATION: That the City Council award the contract to replace eleven (11) City Hall rooftop HVAC units to the responsive low bidder, Therma LLC (Therma) in the amount of $204,621.

FISCAL IMPACT: $205,000. The American Rescue Plan Act (ARPA) funds will be used to pay for this project. On August 24, 2021, the City Council approved the use of ARPA funds for this project under Section 1.4 Prevention/Mitigation in congregate settings related to ventilation improvements.

PUBLIC NOTICE: Notices of the City Council agenda were posted at the three locations per Resolution No. 2011-047 and on the City's website.

BACKGROUND: City Hall has a total of eleven (11) rooftop HVAC package units. These units are aged beyond their lifecycle. The proposed replacement units will be equipped with Ultraviolet lighting for bacterial and virus protection as well as fresh air intake vents and MERV 13 filters for improved air quality.

On April 20, 2022, the City received five competitive bids in response to the City's public bid advertisement. Therma submitted the lowest price of the five bidders. There were no errors identified in the bids. The bid schedule includes a base bid for replacement of all eleven existing rooftop units. There were three additive/deductive bid options in the bid schedule. All three bid options were included in the bidders total bid price to ensure the alternates were bid competitively. The City however has a choice on which bid options to award.

Approved _____	Motion _____	Second _____	Agenda Item No. 14
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		

B Hughes

City Clerk

City Manager

Option 1 is an additive item which requires the contractor to provide six portable one ton air conditioning units and maintenance of them while work is being performed requiring a percentage of existing units to be offline. This will compensate for loss of air conditioning while up to 50% of the units are down at a time during construction.

Option 2 is an additive item to upgrade the standard filters with MERV 13 filter boxes at each unit.

Option 3 is a deductive item to remove AC unit #5 from the scope of the work because it is not yet at the end of its life cycle and can be delayed if the cost warrants.

Following are the bid results which include the base bid plus all three bid options:

Bidder	Total Bid	Option 3	Base Bid with Option 1 & 2
1. Therma LLC	$199,121.00	$5, 500.00	$204,621.00
2. AC Pros	$199,200.00	$12,000.00	$211,200.00
3. MMJ Construction	$227,945.87	$16,257.00	$234,202.87
4. RAN Enterprises	$293,800.00	$16,000.00	$309,800.00
5. Allison Mechanical	$339.980.00	$16,120.00	$356,100.00

Staff has evaluated the base bid and the three bid options, and recommends that the City Council award the Base Bid with options 1 and 2 for the total award amount of $204,621 to Therma LLC. The deduction provided by Therma for Option 3 to salvage AC Unit #5 instead of replacing it as required in the base bid is $5,500. The true cost for a new AC unit is $18,601.91. Option 3 is not recommended because the cost to replace this unit at a later date as a stand-alone replacement would far exceed the short-term cost benefit based on the expected remaining life of the unit.

Staff is not familiar with the lowest bidder, Therma; however, our recent reference check has confirmed that this contractor possesses the qualifications and experience necessary to perform the contract work.

STAFF REPORT

TO THE CITY COUNCIL

MEETING DATE: May 10, 2022

FROM: Joseph Hughes, City Manager

REVIEWED BY: Carlos Zamano, Public Works Director/City Engineer CZ

PREPARED BY: Alondra Muñoz, Engineering Technician II AM

SUBJECT: Incidental Take Permit for Base Line Bridge over City Creek (Project No. brg07001)

RECOMMENDATION: It is recommended that the City Council approve a permit fee in the amount of $20,750 from California Department of Fish and Wildlife (CDFW) for geotechnical exploration of two small test pits for the Base Line Bridge over City Creek project.

FISCAL IMPACT: Funding sources for the CDFW Incidental Take Permit fee are:

Federal Highway Bridge Program (HBP) Grant	$ 18,369.98 (88.53%)
City RDA 2007 Bond Proceeds	2,380.02 (11.47%)
	Total $ 20,750.00 (100%)

PUBLIC NOTICE: The Notice Inviting Bids was advertised in two newspapers and a number of trade papers. Notices of Council Meeting agenda were posted at the three locations required by resolution.

BACKGROUND: The City Council Work Program for 2021/2022 includes a High Priority item for the new bridge on Base Line over City Creek. This project will replace the existing 46'-long, 72'-wide bridge and a low water crossing on Base Line at City Creek with a new 600'-long and 96'-wide bridge.

Minor geotechnical investigation of two test pits no more than 25 feet by 50 ft by 5 ft deep totaling 0.06 acres of temporary soil disturbance on City Creek is necessary to complete design of the project. Staff recommends approval of the fee in the amount of $20,750 from CDFW.

Attachment:

1. Site Plan
2. CDFW Geotechnical Incidental Take Permit

M:\PUBWRK\brg07001 Base Line Bridge\City Council\CDFW Permit Fee Staff Report 5.10.2022.doc

Approved _____ Motion _____ Second _____ Agenda Item No. 15

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

City Clerk

City Manager



LSA

Project Boundary
Excavator Starting Point
Excavator Travel Path
Proposed Test Pit and Spoils Location

0 70 140
FEET

SOURCE: Nearmap (9/12/2021)

I:\AEM1603A\GIS\Pro\AEM1603A\AEM1603A.aprx (1/5/2022)

FIGURE 2

Base Line Bridge Geotechnical Investigation

Site Plan of Proposed Test Pit Excavation Locations

California Department of Fish and Wildlife
INLAND DESERTS REGION
3602 INLAND EMPIRE BOULEVARD, SUITE C-220
ONTARIO, CA 91764

California Endangered Species Act
Incidental Take Permit No. 2081-2022-003-06

BASE LINE BRIDGE GEOTECHICAL EXPLORATION PROJECT

I. Authority:

This California Endangered Species Act (CESA) incidental take permit (ITP) is issued by the California Department of Fish and Wildlife (CDFW) pursuant to Fish and Game Code section 2081, subdivisions (b) and (c), and California Code of Regulations, Title 14, section 783.0 et seq. CESA prohibits the take[1] of any species of wildlife designated by the California Fish and Game Commission as an endangered, threatened, or candidate species.[2] However, CDFW may authorize the take of any such species by permit pursuant to the conditions set forth in Fish and Game Code section 2081, subdivisions (b) and (c). (See Cal. Code Regs., tit. 14, § 783.4).

Permittee:	**City of Highland**
Principal Officer:	**Carlos Zamano, Public Works Director/City Engineer**
Contact Person:	**Carlos Zamano, (909) 864-6861, extension 254**
Mailing Address:	**27215 Base Line** **Highland, CA 92346**

Effective Date and Expiration Date of this ITP:

This ITP shall become effective when signed by all parties and received by CDFW as described in the Notices section of this ITP. Unless renewed by CDFW, this ITP and its authorization to take the Covered Species shall expire on **July 31, 2022.**

Notwithstanding the expiration date on the take authorization provided by this ITP, Permittee's obligations pursuant to this ITP do not end until CDFW accepts as complete the Permittee's Final Mitigation Report required by Condition of Approval 7.7 of this ITP.

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[1]Pursuant to Fish and Game Code section 86, "'take' means hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." (See also *Environmental Protection Information Center v. California Department of Forestry and Fire Protection* (2008) 44 Cal.4th 459, 507 [for purposes of incidental take permitting under Fish and Game Code section 2081, subdivision (b), "'take' ... means to catch, capture or kill".)

[2]The definition of an endangered, threatened, and candidate species for purposes of CESA are found in Fish and Game Code sections 2062, 2067, and 2068, respectively.

II. Project Location:
The Base Line Bridge Geotechical Exploration Project (Project) is located at the Base Line bridge crossing of City Creek, approximately 0.4 mile east of State Route 210, between Boulder Avenue and Yarnell Road, in the City of Highland, San Bernardino County, California (see Figure 1).

III. Project Description:
The Project consists of the excavation of no more than two small test pits, with the outside dimensions of each test pit limited to no more than 25 feet (ft) by 50 ft by 5 ft deep and sloped at 1.5 horizontal: 1 vertical (approximately 150 cubic yards of temporarily excavated substrate [0.06 acre of temporary soil surface disturbance]) or less. No more than one test pit will be excavated on each side of Base Line bridge within the proposed footprint of the project (Figure 2, Site Plan of Proposed Test Pit Excavation Locations). Excavation will be performed using an excavator during day light hours. The Project will be limited to a maximum of 2 days with no more than a total of 20 hours on site. The excavator will travel from the adjacent commercial parking lot on the west side of City Creek and from an open area on the east side of City Creek. Excavated materials will be temporarily stockpiled on the compacted shoulder of Base Line. The test pits will be backfilled with the same excavated material (soils, gravel, cobbles, and boulders) using the excavator. Any material that cannot be placed as backfill within the excavated test pits will be disposed of offsite.

IV. Covered Species Subject to Take Authorization Provided by this ITP:
This ITP covers the following species:

Name	CESA Status[3]
1. San Bernardino Kangaroo Rat (*Dipodomys merriami parvus*)	Candidate[4]

This species and only this species is the "Covered Species" for the purposes of this ITP.

V. Impacts of the Taking on Covered Species:
Project activities and their resulting impacts are expected to result in the incidental take of individuals of the Covered Species. The activities described above expected to result in incidental take of individuals of the Covered Species include vegetation removal and excavation (Covered Activities).

Incidental take of individuals of the Covered Species in the form of mortality ("kill") may occur as a result of Covered Activities such as excavation and operation of heavy equipment resulting in crushing of individuals in burrows, increase in vehicle strikes aboveground, and covering of individuals in burrows with soil. The areas where authorized take of the Covered Species is expected to occur include the two excavation pits on either side of Base Line Bridge (collectively, the Project Area).

---

[3] Under CESA, a species may be on the list of endangered species, the list of threatened species, or the list of candidate species.

[4]The species status may change following the decision of the Fish and Game Commission to designate the species as threatened or endangered but if there is such a designation, the species will remain a Covered Species.

The Project is expected to cause the loss of 0.06 acre of habitat for the Covered Species. Impacts of the authorized taking also include adverse impacts to the Covered Species related to temporal losses, increased habitat fragmentation and edge effects, and the Project's incremental contribution to cumulative impacts (indirect impacts). These impacts include: stress resulting from noise and vibrations from excavation, the interference of detecting and interpreting foot-drumming signals from conspecifics to avoid predation and advertise territory and the collapsing of day burrows from the use of vibrational and loud noise equipment; soil disturbance and compaction; and alteration of plant community structure.

VI. Incidental Take Authorization of Covered Species:

This ITP authorizes incidental take of the Covered Species and only the Covered Species. With respect to incidental take of the Covered Species, CDFW authorizes the Permittee, its employees, contractors, and agents to take Covered Species incidentally in carrying out the Covered Activities, subject to the limitations described in this section and the Conditions of Approval identified below. This ITP does not authorize take of Covered Species from activities outside the scope of the Covered Activities, take of Covered Species outside of the Project Area, take of Covered Species resulting from violation of this ITP, or intentional take of Covered Species.

VII. Conditions of Approval:

Unless specified otherwise, the following measures apply to all Covered Activities within the Project Area, including areas used for vehicular ingress and egress, staging and parking , and noise and vibration generating activities that may/will cause take. CDFW's issuance of this ITP and Permittee's authorization to take the Covered Species are subject to Permittee's compliance with and implementation of the following Conditions of Approval:

1. **Legal Compliance:** Permittee shall comply with all applicable federal, state, and local laws in existence on the effective date of this ITP or adopted thereafter.

2. **CEQA Compliance:** Permittee shall implement and adhere to the mitigation measures related to the Covered Species in the Biological Resources section of the Mitigated Negative Declaration and Initial Study (SCH No.: 2018021016) adopted by the City of Highland on March 21, 2018 as lead agency for the Project pursuant to the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.).

3. **LSA Agreement Compliance:** Permittee shall implement and adhere to the mitigation measures and conditions related to the Covered Species in any Lake and Streambed Alteration Agreement (LSAA) for the Project executed by CDFW pursuant to Fish and Game Code section 1600 et seq.

4. **ESA Compliance:** Permittee shall implement and adhere to the terms and conditions related to the Covered Species in the formal and informal section 7 consultation on the Base Line Bridge Project, San Bernardino County, California (FWS-SB-12B0290-09BO425) for the Project pursuant

to the Federal Endangered Species Act (ESA). For purposes of this ITP, where the terms and conditions for the Covered Species in the federal authorization are less protective of the Covered Species or otherwise conflict with this ITP, the conditions of approval set forth in this ITP shall control.

5. **ITP Time Frame Compliance:** Permittee shall fully implement and adhere to the conditions of this ITP within the time frames set forth below and as set forth in the Mitigation Monitoring and Reporting Program (MMRP), which is included as Attachment 1 to this ITP.

6. **General Provisions:**

6.1. Designated Representative. Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.

6.2. Designated Biologist(s), Biological Monitor(s), and/or Veterinarian(s). Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Biological Monitor(s) using the Biologist Resume Form (Attachment 2) or another format containing the same information at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist(s) and Biological Monitor(s) are knowledgeable and experienced in the biology, natural history , collecting and handling of the Covered Species. The Designated Biologist(s) and Biological Monitor(s) shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain CDFW approval of the Designated Biologist(s) and Biological Monitor(s) in writing before starting Covered Activities and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Biological Monitor(s) must be changed.

6.3. Designated Biologist Authority. To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist shall immediately stop any activity that does not comply with this ITP and/or order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species. Permittee shall provide unfettered access to the Project Site and otherwise facilitate the Designated Biologist in the performance of his/her duties. If the Designated Biologist is unable to comply with the ITP, then the Designated Biologist shall notify the CDFW Representative immediately. Permittee shall not enter into any agreement or contract of any kind, including but not limited to non-disclosure agreements and confidentiality agreements, with its contractors and/or the Designated Biologist that prohibit or impede open communication with CDFW, including but not limited to providing

CDFW staff with the results of any surveys, reports, or studies or notifying CDFW of any non-compliance or take. Failure to notify CDFW of any non-compliance or take or injury of a Covered Species as a result of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.

6.4. Education Program. Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures.

6.5. Construction Monitoring Documentation. The Designated Biologist(s) and Biological Monitor(s)shall maintain construction-monitoring documentation on-site in either hard copy or digital format throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring documentation is available for review at the Project site upon request by CDFW.

6.6. Trash Abatement. Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.

6.7. Dust Control. Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles.

6.8. Erosion Control Materials. Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species, such as monofilament netting (erosion control matting) or similar material, in potential Covered Species' habitat.

6.9. Delineation of Property Boundaries. Before starting Covered Activities, Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes, or flags. Permittee shall restrict all Covered Activities to within the fenced, staked, or flagged areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities.

6.10. Delineation of Habitat. Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat.

6.11. Project Access. Project-related personnel shall access the Project Area using existing routes, or routes identified in the Project Description and shall not cross Covered Species' habitat outside of or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging, and parking areas. Permittee shall ensure that vehicle speeds do not exceed 20 miles per hour to avoid Covered Species on or traversing the roads.If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.

6.12. Staging Areas. Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas. Additionally, Permittee shall not use or cross Covered Species' habitat outside of the marked Project Area unless provided for as described in Condition of Approval 6.11 of this ITP.

6.13. Hazardous Waste. Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.

6.14. CDFW Access. Permittee shall provide CDFW staff with reasonable access to the Project, and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.

6.15. Refuse Removal. Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.

7. Monitoring, Notification and Reporting Provisions:

7.1. Notification Before Commencement. The Designated Representative shall notify CDFW 5 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.

7.2. Notification of Non-compliance. The Designated Representative shall immediately notify CDFW if the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall follow up within 24 hours with a written report to CDFW describing, in detail, any non-compliance with this ITP and suggested measures to remedy the situation.

7.3. Compliance Monitoring. The Designated Biologist shall be on-site daily when Covered Activities occur. The Designated Biologist shall conduct compliance inspections to:

(1) minimize incidental take of the Covered Species;

(2) prevent unlawful take of species;

(3) check for compliance with all measures of this ITP;

(4) check all exclusion zones; and

(5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area.

The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP.

7.4. Monthly Compliance Report. The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 7.3 into a Monthly Compliance Report and submit it to CDFW along with a copy of the MMRP table with notes showing the current implementation status of each mitigation measure. Monthly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative and Headquarters CESA Program. At the time of this ITP's approval, the CDFW Regional Representative is Kimberly Romich (Kimberly.Romich@wildlife.ca.gov) and Headquarters CESA Program email is CESA@wildlife.ca.gov. CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.

7.5. Annual Status Report. Permittee shall provide CDFW with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year identified in Condition of Approval 7.4; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) all available information about Project-related incidental take of the Covered Species; and (6) information about other Project impacts on the Covered Species.

7.6. CNDDB Observations. The Designated Biologist shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDB) within 60 calendar days of the observation and the Designated Biologist shall include copies of the submitted forms with the Compliance Report or ASR, whichever is submitted first relative to the observation.

7.7. Final Mitigation Report. No later than 45 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all MonthlyCompliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.

7.8. Notification of Take or Injury. Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured by a Project-related activity, or if a Covered Species is otherwise found dead or injured within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (909) 484-0523. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured and the ITP Number. Following initial notification, Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, and if possible, provide a photograph, explanation as to cause of take or injury, and any other pertinent information.

8. **Take Minimization Measures:** The following requirements are intended to ensure the minimization of incidental take of Covered Species in the Project Area during Covered Activities. Permittee shall implement and adhere to the following conditions to minimize take of Covered Species:

8.1. SBKR Construction Monitoring. Designated Biologist(s) shall perform daily visual surveys within the Project Area and a 125-foot buffer surrounding these areas, including stockpiles and equipment storage areas.

8.1.1. *Buffers*. A minimum no-work or monitoring buffer of 125 feet will be established and maintained around any kangaroo rat burrows.

8.1.2. *Monitor*. The Designated Biologist(s) shall monitor the burrow(s) within 125-feet of the Project Areas for disturbance a minimum of 3 times daily.

8.1.3. *Project Adjustments*. If a burrow shows evidence of disturbance, the Designated Biologist(s) shall immediately make adjustments to the location, type, and/or frequency of the Covered Activities occurring to preclude further potential impacts, and increase monitoring of the burrow to ensure the adjustments were effective. The Designated Biologist(s) shall use their best professional judgement regarding the monitoring period and adjustment of the work buffer surrounding the burrow.

8.1.4. *Stop Work*. If impacts beyond those authorized in this ITP are identified or suspected, Permittee shall cease the Covered Activities potentially responsible for those impacts and notify CDFW immediately.

9. **Habitat Management Land Acquisition:** CDFW has determined that permanent protection and perpetual management of compensatory habitat is necessary and required pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result from implementation of the Covered Activities. This determination is based on factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the protected acreage required to provide for adequate compensation..

To meet this requirement, the Permittee shall either purchase 0.06 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank pursuant to Condition of Approval 9.2 below **OR** shall provide for both the permanent protection and management of 0.06 acres of Habitat Management (HM) lands pursuant to Condition of Approval 9.3 below and the calculation and deposit of the management funds pursuant to Condition of Approval 9.4 below. Purchase of Covered Species credits OR permanent protection and funding for perpetual management of HM lands must be complete before starting Covered Activities, or within 18 months of the effective

date of this ITP if Security is provided pursuant to Condition of Approval 10 below for all uncompleted obligations.

9.1. Cost Estimates. For the purposes of determining the Security amount, CDFW has estimated the cost sufficient for CDFW or its contractors to complete acquisition, protection, and perpetual management of the HM lands as follows:

9.1.1. Land acquisition costs for HM lands identified in Condition of Approval 8.3 below, estimated at $135,000/acre for 0.06 acres: **$8,100**. Land acquisitions costs are estimated using local fair market current value per acre for lands with habitat values meeting mitigation requirements;

9.1.2. All other costs necessary to review and acquire the land in fee title and record a conservation easement as described in Condition of Approval 8.3.1 and 8.3.2 below: **$5,000**;

9.1.3. Start-up costs for HM lands, including initial site protection and enhancement costs as described in Condition of Approval 8.3.6 below, estimated at **$1,000**; including.

9.1.4. Interim management period funding as described in Condition of Approval 8.3.7 below, estimated at **$1,250**;

9.1.5. Long-term management funding as described in Condition of Approval 8.4 below, estimated at $23,236/acre for 0.06 acres: **$1,400**. Long-term management funding is estimated initially for the purpose of providing Security to ensure implementation of HM lands management.

9.1.6. Related transaction fees including but not limited to account set-up fees, administrative fees, title and documentation review and related title transactions, expenses incurred from other state agency reviews, and overhead related to transfer of HM lands to CDFW as described in Condition of Approval 9.5, estimated at **$4,000**.

9.2. Covered Species Credits. If the Permittee elects to purchase Covered Species credits to complete compensatory mitigation obligations, then Permittee shall purchase 0.06 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities, or no later than 18 months from the issuance of this ITP if Security is provided pursuant to Condition of Approval 10 below. Prior to purchase of Covered Species credits, Permittee shall obtain CDFW approval to ensure the mitigation or conservation bank is appropriate to compensate for the impacts of the Project. Permittee shall submit to CDFW a copy of the Bill of Sale(s) and Payment Receipt prior to initiating Covered Activities or within 18 months from issuance of this ITP if Security is provided.

9.3. Habitat Management Lands Acquisition and Protection. If the Permittee elects to provide for the acquisition, permanent protection, and perpetual management of HM lands to complete compensatory mitigation obligations, then the Permittee shall:

9.3.1. Fee Title. Transfer fee title of the HM lands to CDFW pursuant to terms approved in writing by CDFW. Alternatively, CDFW, in its sole discretion, may authorize a governmental entity, special district, non-profit organization, for-profit entity, person, or another entity to hold title to and manage the property provided that the district, organization, entity, or person meets the requirements of Government Code sections 65965-65968, as amended.

9.3.2. Conservation Easement. If CDFW does not hold fee title to the HM lands, CDFW shall act as grantee for a conservation easement over the HM lands or shall, in its sole discretion, approve a non-profit entity, public agency, or Native American tribe to act as grantee for a conservation easement over the HM lands provided that the entity, agency, or tribe meets the requirements of Civil Code section 815.3. If CDFW elects not to be named as the grantee for the conservation easement, CDFW shall be expressly named in the conservation easement as a third-party beneficiary. The Permittee shall obtain CDFW written approval of any conservation easement before its execution or recordation. No conservation easement shall be approved by CDFW unless it complies with Civil Code sections 815-816, as amended, and Government Code sections 65965-65968, as amended and includes provisions expressly addressing Government Code sections 65966(j) and 65967(e). Because the "doctrine of merger" could invalidate the conservation interest, under no circumstances can the fee title owner of the HM lands serve as grantee for the conservation easement.

9.3.3. HM Lands Approval. Obtain CDFW written approval of the HM lands before acquisition and/or transfer of the land by submitting, at least three months before acquisition and/or transfer of the HM lands, documentation identifying the land to be purchased or property interest conveyed to an approved entity as mitigation for the Project's impacts on Covered Species;

9.3.4. HM Lands Documentation. Provide a recent preliminary title report, Phase I Environmental Site Assessment, and other necessary documents (please contact CDFW for document list). All documents conveying the HM lands and all conditions of title are subject to the approval of CDFW, and if applicable, the Wildlife Conservation Board and the Department of General Services;

9.3.5. Land Manager. Designate both an interim and long-term land manager approved by CDFW. The interim and long-term land managers may, but need not, be the same. The interim and/or long-term land managers may be the landowner or another party. Documents related to land management shall identify both the interim and long-term

land managers. Permittee shall notify CDFW of any subsequent changes in the land manager within 30 days of the change. If CDFW will hold fee title to the mitigation land, CDFW will also act as both the interim and long-term land manager unless otherwise specified. The grantee for the conservation easement cannot serve as the interim or long-term manager without the express written authorization of CDFW in its sole discretion.

9.3.6. Start-up Activities. Provide for the implementation of start-up activities, including the initial site protection and enhancement of HM lands, once the HM lands have been approved by CDFW. Start-up activities include, at a minimum: (1) preparing a final management plan for CDFW approval (see https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=137386&inline) (2) conducting a baseline biological assessment and land survey report within four months of recording or transfer; (3) developing and transferring Geographic Information Systems (GIS) data if applicable; (4) establishing initial fencing; (5) conducting litter removal; (6) conducting initial habitat restoration or enhancement, if applicable; and (7) installing signage;

9.3.7. Interim Management (Initial and Capital). Provide for the interim management of the HM lands. The Permittee shall ensure that the interim land manager implements the interim management of the HM lands as described in the final management plan and conservation easement approved by CDFW. The interim management period shall be a minimum of three years from the date of HM land acquisition and protection and full funding of the Endowment and includes expected management following start-up activities. Interim management period activities described in the final management plan shall include fence repair, continuing trash removal, site monitoring, and vegetation and invasive species management.

Permittee shall either (1) provide Security to CDFW for the minimum of three years of interim management that the land owner, Permittee, or land manager agrees to manage and pay for at their own expense, (2) establish an escrow account with written instructions approved in advance in writing by CDFW to pay the land manager annually in advance, or (3) establish a short-term enhancement account with CDFW or a CDFW-approved entity for payment to the land manager.

9.4. Endowment Fund. If the Permittee elects to provide for the acquisition, permanent protection, and perpetual management of HM lands to complete compensatory mitigation obligations, then the Permittee shall ensure that the HM lands are perpetually managed, maintained, and monitored by the long-term land manager as described in this ITP, the conservation easement, and the final management plan approved by CDFW. After obtaining CDFW approval of the HM lands, Permittee shall provide long-term management funding for the perpetual management of the HM lands by establishing a long-term management fund

(Endowment). The Endowment is a sum of money, held in a CDFW-approved fund that is permanently restricted to paying the costs of long-term management and stewardship of the mitigation property for which the funds were set aside, which costs include the perpetual management, maintenance, monitoring, and other activities on the HM lands consistent with this ITP, the conservation easement, and the management plan required by Condition of Approval 9.3.6. Endowment as used in this ITP shall refer to the endowment deposit and all interest, dividends, other earnings, additions and appreciation thereon. The Endowment shall be governed by this ITP, Government Code sections 65965-65968, as amended, and Probate Code sections 18501-18510, as amended.

After the interim management period, Permittee shall ensure that the designated long-term land manager implements the management and monitoring of the HM lands according to the final management plan. The long-term land manager shall be obligated to manage and monitor the HM lands in perpetuity to preserve their conservation values in accordance with this ITP, the conservation easement, and the final management plan. Such activities shall be funded through the Endowment.

9.4.1. Identify an Endowment Manager. The Endowment shall be held by the Endowment Manager, which shall be either CDFW or another entity qualified pursuant to Government Code sections 65965-65968, as amended.

Permittee shall submit to CDFW a written proposal that includes: (i) the name of the proposed Endowment Manager; (ii) whether the proposed Endowment Manager is a governmental entity, special district, nonprofit organization, community foundation, or congressionally chartered foundation; (iii) whether the proposed Endowment Manager holds the property or an interest in the property for conservation purposes as required by Government Code section 65968(b)(1) or, in the alternative, the basis for finding that the Project qualifies for an exception pursuant to Government Code section 65968(b)(2); and (iv) a copy of the proposed Endowment Manager's certification pursuant to Government Code section 65968(e).

Within thirty days of CDFW's receipt of Permittee's written proposal, CDFW shall inform Permittee in writing if it determines the proposal does not satisfy the requirements of Fish and Game Code section 2081(b)(3) and, if so, shall provide Permittee with a written explanation of the reasons for its determination. If CDFW does not provide Permittee with a written determination within the thirty-day period, the proposal shall be deemed consistent with Section 2081(b)(3).

9.4.2. Calculate the Endowment Funds Deposit. After obtaining CDFW written approval of the HM lands, long-term management plan, and Endowment Manager, Permittee shall prepare an endowment assessment (equivalent to a Property Analysis Record (PAR)) to calculate the amount of funding necessary to ensure the long-term management of

the HM lands (Endowment Deposit Amount). Note that the endowment for the easement holder should not be included in this calculation. The Permittee shall submit to CDFW for review and approval the results of the endowment assessment before transferring funds to the Endowment Manager.

9.4.2.1. Capitalization Rate and Fees. Permittee shall obtain the capitalization rate from the selected Endowment Manager for use in calculating the endowment assessment and adjust for any additional administrative, periodic, or annual fees.

9.4.2.2. Endowment Buffers/Assumptions. Permittee shall include in the endowment assessment assumptions the following buffers for endowment establishment and use that will substantially ensure long-term viability and security of the Endowment:

9.4.2.2.1. 10 Percent Contingency. A 10 percent contingency shall be added to each endowment calculation to hedge against underestimation of the fund, unanticipated expenditures, inflation, or catastrophic events.

9.4.2.2.2. Three Years Delayed Spending. The endowment shall be established assuming spending will not occur for the first three years after full funding.

9.4.2.2.3. Non-annualized Expenses. For all large capital expenses to occur periodically but not annually such as fence replacement or well replacement, payments shall be withheld from the annual disbursement until the year of anticipated need or upon request to Endowment Manager and CDFW.

9.4.3. Transfer Long-term Endowment Funds. Permittee shall transfer the long-term endowment funds to the Endowment Manager upon CDFW approval of the Endowment Deposit Amount identified above.

9.4.4. Management of the Endowment. The approved Endowment Manager may pool the Endowment with other endowments for the operation, management, and protection of HM lands for local populations of the Covered Species but shall maintain separate accounting for each Endowment. The Endowment Manager shall, at all times, hold and manage the Endowment in compliance with this ITP, Government Code sections 65965-65968, as amended, and Probate Code sections 18501-18510, as amended.

Notwithstanding Probate Code sections 18501-18510, the Endowment Manager shall not make any disbursement from the Endowment that will result in expenditure of any portion of the principal of the endowment without the prior written approval of CDFW in its sole discretion. Permittee shall ensure that this requirement is included in any

agreement of any kind governing the holding, investment, management, and/or disbursement of the Endowment funds.

Notwithstanding Probate Code sections 18501-18510, if CDFW determines in its sole discretion that an expenditure needs to be made from the Endowment to preserve the conservation values of the HM lands, the Endowment Manager shall process that expenditure in accordance with directions from CDFW. The Endowment Manager shall not be liable for any shortfall in the Endowment resulting from CDFW's decision to make such an expenditure.

9.5. Reimburse CDFW. Permittee shall reimburse CDFW for all reasonable costs incurred by CDFW related to issuance and monitoring of this ITP, including, but not limited to transaction fees, account set-up fees, administrative fees, title and documentation review and related title transactions, costs incurred from other state agency reviews, and overhead related to transfer of HM lands to CDFW.

10. Security: The Permittee may proceed with Covered Activities only after the Permittee has ensured funding (Security) to complete any activity required by Condition of Approval 9 that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:

10.1. Security Amount. The Security shall be in the amount of **$20,750** or in the amount identified in 9.1 specific to the obligation that has not been completed. This amount is determined by CDFW based on the cost estimates identified in Condition of Approval 9.1 above, sufficient for CDFW or its contractors to complete land acquisition, property enhancement, startup costs, initial management, long-term management, and monitoring.

10.2. Security Form. The Security shall be in the form of an irrevocable letter of credit (see Attachment 3) or another form of Security approved in advance in writing by CDFW's Office of the General Counsel.

10.3. Security Timeline. The Security shall be provided to CDFW before Covered Activities begin or within 30 days after the effective date of this ITP, whichever occurs first.

10.4. Security Holder. The Security shall be held by CDFW or in a manner approved in advance in writing by CDFW.

10.5. Security Transmittal. Permittee shall transmit it to CDFW with a completed Mitigation Payment Transmittal Form (see Attachment 4) or by way of an approved instrument such as an escrow agreement, irrevocable letter of credit, or other.

10.6. Security Drawing. The Security shall allow CDFW to draw on the principal sum if CDFW, in its sole discretion, determines that the Permittee has failed to comply with the Conditions of Approval of this ITP.

10.7. Security Release. The Security (or any portion of the Security then remaining) shall be released to the Permittee after CDFW has conducted an on-site inspection and received confirmation that all secured requirements have been satisfied, as evidenced by:

- Copy of Bill of Sale(s) and Payment Receipt(s) or Credit Transfer Agreement for the purchase of Covered Species credits; and
- Timely submission of all required reports.

OR

- Written documentation of the acquisition of the HM lands;
- Copies of all executed and recorded conservation easements;
- Written confirmation from the approved Endowment Manager of its receipt of the full Endowment; and
- Timely submission of all required reports.

Even if Security is provided, the Permittee must complete the required acquisition, protection and transfer of all HM lands and record any required conservation easements no later than 18 months from the effective date of this ITP. CDFW may require the Permittee to provide additional HM lands and/or additional funding to ensure the impacts of the taking are minimized and fully mitigated, as required by law, if the Permittee does not complete these requirements within the specified timeframe.

VIII. Amendment:

This ITP may be amended as provided by California Code of Regulations, Title 14, section 783.6, subdivision (c), and other applicable law. This ITP may be amended without the concurrence of the Permittee as required by law, including if CDFW determines that continued implementation of the Project as authorized under this ITP would jeopardize the continued existence of the Covered Species or where Project changes or changed biological conditions necessitate an ITP amendment to ensure that all Project-related impacts of the taking to the Covered Species are minimized and fully mitigated.

IX. Stop-Work Order:

If CDFW determines the Permittee has violated any term or condition of this ITP or has engaged in unlawful take, CDFW may issue Permittee a written stop-work order instructing the Permittee to suspend any Covered Activity for an initial period of up to 30 days or risk suspension or revocation of this ITP. CDFW can issue a stop-work order to prevent or remedy a violation of this ITP, including but not limited to the failure to comply with reporting or monitoring obligations, or to prevent the unauthorized take of any CESA endangered, threatened, or candidate species, regardless of whether that species is a Covered Species under this ITP. Permittee shall stop work immediately as directed by CDFW upon receipt of any such stop-work order. Upon written notice to Permittee, CDFW may extend any stop-work order issued to Permittee for a period not to exceed 30 additional days.

If Permittee fails to remedy the violation or to comply with a stop-work order, CDFW may proceed with suspension and revocation of this ITP. Suspension and revocation of this ITP shall be governed by California Code of Regulations, Title 14, section 783.7, and any other applicable law. Neither the Designated Biologist nor CDFW shall be liable for any costs incurred in complying with stop-work orders.

X. Compliance with Other Laws:
This ITP sets forth CDFW's requirements for the Permittee to implement the Project pursuant to CESA. This ITP does not necessarily create an entitlement to proceed with the Project. Permittee is responsible for complying with all other applicable federal, state, and local law.

XI. Notices:
The Permittee shall sign and return this ITP to CDFW. A manual or digital signature is acceptable, provided a digital signature complies with Government Code section 16.5. Digital signatures facilitated by CDFW will be automatically returned. Manual (wet) signatures on duplicate original paper copies shall be returned by the Permittee via registered first-class mail or overnight delivery to the following address:

Habitat Conservation Planning Branch
California Department of Fish and Wildlife
Attention: CESA Permitting Program
Post Office Box 944209
Sacramento, CA 94244-2090

Written notices, reports and other communications relating to this ITP shall be delivered to CDFW by email or registered first class mail at the following address, or at addresses CDFW may subsequently provide the Permittee. Notices, reports, and other communications shall reference the Project name, Permittee, and ITP Number (2081-2021-003-06) in a cover letter and on any other associated documents.

Original cover with attachment(s) to:

Heidi Calvert, Acting Regional Manager
California Department of Fish and Wildlife
3602 Inland Empire Boulevard, Suite C-220
Ontario, CA 91764
Telephone (909) 484-0523
Katrina.Banda@wildlife.ca.gov

and a copy to:

Habitat Conservation Planning Branch

California Department of Fish and Wildlife
Attention: CESA Permitting Program
Post Office Box 944209
Sacramento, CA 94244-2090
CESA@wildlife.ca.gov

Unless Permittee is notified otherwise, CDFW's Regional Representative for purposes of addressing issues that arise during implementation of this ITP is:

Kim Romich
3602 Inland Empire Blvd., Suite C-220
Ontario, CA 91764
Telephone (760) 937-1380
Kimberly.Romich@wildlife.ca.gov

XII. Compliance with the California Environmental Quality Act:

CDFW's issuance of this ITP is subject to CEQA. CDFW is a responsible agency pursuant to CEQA with respect to this ITP because of prior environmental review of the Project by the lead agency, City of Highland. (See generally Pub. Resources Code, §§ 21067, 21069.) The lead agency's prior environmental review of the Project is set forth in the Base Line Bridge Replacement Project Mitigated Negative Declaration and Initial Study (SCH No. 2018021016) dated February 12, 2018 that the City of Highland adopted for Base Line Bridge Replacement Project on March 21, 2018. At the time the lead agency adopted the Mitigated Negative Declaration and approved the Project it also adopted various mitigation measures for the Covered Species as conditions of Project approval.

This ITP, along with CDFW's related CEQA findings, which are available as a separate document, provide evidence of CDFW's consideration of the lead agency's Mitigated Negative Declaration for the Project and the environmental effects related to issuance of this ITP (CEQA Guidelines, § 15096, subd. (f)). CDFW finds that issuance of this ITP will not result in any previously undisclosed potentially significant effects on the environment or a substantial increase in the severity of any potentially significant environmental effects previously disclosed by the lead agency. Furthermore, to the extent the potential for such effects exists, CDFW finds adherence to and implementation of the Conditions of Project Approval adopted by the lead agency, and that adherence to and implementation of the Conditions of Approval imposed by CDFW through the issuance of this ITP, will avoid or reduce to below a level of significance any such potential effects. CDFW consequently finds that issuance of this ITP will not result in any significant, adverse impacts on the environment.

XIII. Findings Pursuant to CESA:
These findings are intended to document CDFW's compliance with the specific findings requirements set forth in CESA and related regulations. (Fish & G. Code § 2081, subs. (b)-(c); Cal. Code Regs., tit. 14, §§ 783.4, subds, (a)-(b), 783.5, subd. (c)(2).)

CDFW finds based on substantial evidence in the ITP application Base Line Bridge Replacement Project Mitigated Negative Declaration, the results of a site visit and consultations, and the administrative record of proceedings, that issuance of this ITP complies and is consistent with the criteria governing the issuance of ITPs pursuant to CESA:

(1) Take of Covered Species as defined in this ITP will be incidental to the otherwise lawful activities covered under this ITP;

(2) Impacts of the taking on Covered Species will be minimized and fully mitigated through the implementation of measures required by this ITP and as described in the MMRP. Measures include: (1) permanent habitat protection; (2) establishment of avoidance zones; (3) worker education; and (4) Monthly Compliance Report(s). CDFW evaluated factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the acreage required to provide for adequate compensation. Based on this evaluation, CDFW determined that the protection and management in perpetuity of 0.06 acres of compensatory habitat that is contiguous with other protected Covered Species habitat and/or is of higher quality than the habitat being destroyed by the Project, along with the minimization, monitoring, reporting, and funding requirements of this ITP minimizes and fully mitigates the impacts of the taking caused by the Project;

(3) The take avoidance and mitigation measures required pursuant to the conditions of this ITP and its attachments are roughly proportional in extent to the impacts of the taking authorized by this ITP;

(4) The measures required by this ITP maintain Permittee's objectives to the greatest extent possible;

(5) All required measures are capable of successful implementation;

(6) This ITP is consistent with any regulations adopted pursuant to Fish and Game Code sections 2112 and 2114;

(7) Permittee has ensured adequate funding to implement the measures required by this ITP as well as for monitoring compliance with, and the effectiveness of, those measures for the Project; and

(8) Issuance of this ITP will not jeopardize the continued existence of the Covered Species based on the best scientific and other information reasonably available, and this finding includes consideration of the species' capability to survive and reproduce, and any adverse impacts of the taking on those abilities in light of (1) known population trends; (2) known threats to the species; and (3) reasonably foreseeable impacts on the species from other related projects and activities. Moreover, CDFW's finding is based, in part, on CDFW's express authority to

amend the terms and conditions of this ITP without concurrence of the Permittee as necessary to avoid jeopardy and as required by law.

XIV. Attachments:

FIGURE 1	Map of Project
FIGURE 2	Site Plan of Proposed Test Pit Excavation Locations
ATTACHMENT 1	Mitigation Monitoring and Reporting Program
ATTACHMENT 2	Biologist Resume Form
ATTACHMENT 3	Letter of Credit Form
ATTACHMENT 4	Mitigation Payment Transmittal Form

ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE ON [MM/DD/YYYY]

_____

Heidi Calvert, Acting Regional Manager
Inland Deserts Region

ACKNOWLEDGMENT

The undersigned: (1) warrants that he or she is acting as a duly authorized representative of the Permittee, (2) acknowledges receipt of this ITP, and (3) agrees on behalf of the Permittee to comply with all terms and conditions.

By:_____ Date:_____

Printed Name:_____ Title:_____

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Chuck Dantuono, Director of Administrative Services/City Treasurer
Sean Landavazo, Fire Chief (Cal FIRE)

SUBJECT: Purchase of new Type I Fire Engine.

RECOMMENDATION:

1. That the City Council approve moving forward with the order & purchase of a new Type I Fire Engine from KME Rev Group in the amount of $772,613.72 through the City's membership in Sourcewell: **or**

2. That the City Council approve moving forward with the order & purchase of a new Type I Fire Engine from KME Rev Group through the City's membership in Sourcewell and take the 100% prepayment discount of $19,875. The purchase price would then be $752,738.72.

FISCAL IMPACT: $772,613.72 without the 100% prepayment discount or $752,738.72 utilizing the discount. The purchase of this type I fire engine and equipment will be paid through a grant from the San Manuel Band of Mission Indians. The total grant is for $900,000. Any unused portion of this grant will be returned.

PUBLIC NOTICE: The agenda for this item was posted at the three required locations.

BACKGROUND: On December 31, 2021, the City Council approved a Restricted Grant Agreement with the San Manuel Band of Mission Indians where the San Manuel Band of Mission Indians would pay to the City of Highland $900,000 to be used to purchase a replacement type I fire engine and associated equipment.

Our Fire Department staff found a type I fire engine that meets Highland's needs. To purchase this fire engine, Highland will use our membership in Sourcewell. Sourcewell helps over 50,000 governments, school districts and non-profits by holding hundreds of publicly solicited cooperative contracts, known as "Cooperative Purchasing." The entire competitive solicitation process is taken care of by Sourcewell. Highland would be using Sourcewell contract #022818-EO1-2.

Approved _____	Motion _____	Second _____	Agenda Item No. 16
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		

City Clerk

City Manager

The KME fire engine selected by the Fire Department staff was designed with the "Clean Cab" design concept, which limits the exposure of toxic carcinogens. This fire engine design features increased exterior storage compartments that will be utilized to store personal protective equipment outside the cab, limiting firefighter exposure to contaminated equipment. The proposed 2023 KME fire engine will replace the 2011 KME with currently 106,000 miles, which will be moved to reserve status.

The 2023 KME fire engine was selected because of its dependability and customizations that will benefit the needs of the City and the Fire Department, providing for firefighter safety and apparatus longevity. This new engine will be 2023 KME Custom Type 1 Pumper: Cummins diesel, 1500gpm pump, 500-gallon water tank. The total price is $772,613.72. There is an option for a prepayment discount of $19,875 that staff is recommending NOT to do primarily because the build time is 450 days. Also included in the total price is trips to the KME factory for pre-construction meeting, midway inspection, and final inspection for 3 Fire Department personnel. The total price also includes a $10,000 contingency fund for possible change order items discussed during pre-construction meeting or midway inspection.

The purchase of this KME is in line with current fleet of 3 other KME's owned by Highland. All current and new fire engine warranty items will utilize with the same repair service center. Currently Fire Apparatus Solutions (FAS) is the authorized KME service center. KME is in the process of opening their own service center/parts department located in Fontana this summer.

The Type I Fire Engine would be assigned to Fire Station #1.

Attached is the proposal from KME.

City of Highland
27215 Baseline St.
Highland, CA 92346

Chief Landavazo:

KME Fire Apparatus is pleased to provide you with this proposal for one (1) KME Custom Type 1 Pumper Apparatus per our attached specification. This proposal is offered as part of the established **Sourcewell contract #022818-EO1-2.**
The price, terms and conditions for the proposed apparatus are as follows:

Option 1: 1 Unit:	
KME Custom Custom Pumper MSRP:	$754,782.00
Sourcewell Discount 5%:	-$37,739.10
Subtotal:	$717,042.90
California Sales Tax @ 7.75%:	$55,570.82
Total Price for Single unit:	**$772,613.72**

This price is valid until **July 31, 2022**
100% Prepayment Discount Option: -$19,875.00
Contingency Fund: A contingency in the amount of $10,000.00 is included in the price above.
Factory Trips: This price includes 3 factory trips for 3 Fire Dept personnel for preconstruction and inspections.
Terms: Net 30 days
Delivery: 450 days from Pre-construction conference F.O.B. Nesquehoning, PA. Delivery to the final destination and Pre Delivery Inspection Services are included in the price.
Supply chain disruptions: The above delivery date may be impacted due to the global supply chain disruptions.
Liquidated Damages: Due to the supply chain disruptions KME is not able to honor a penalty clause.

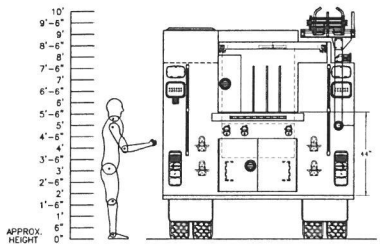
If you have any questions pertaining to this proposal, please contact me at 909-917-4339 or bgomez@kmefire.com.

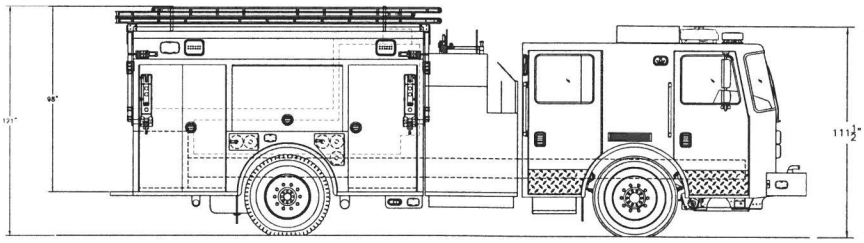
We appreciate the opportunity to offer this proposal to the City of Highland Department.

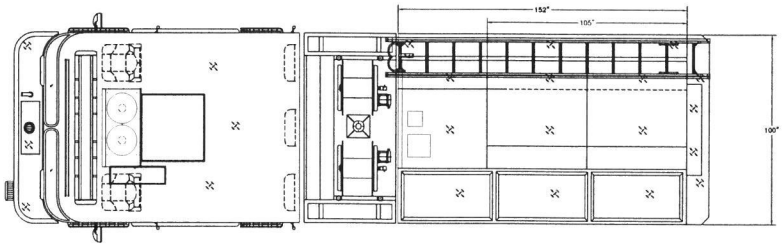
Respectfully,

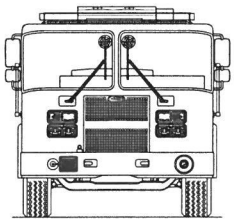
Brandon Gomez

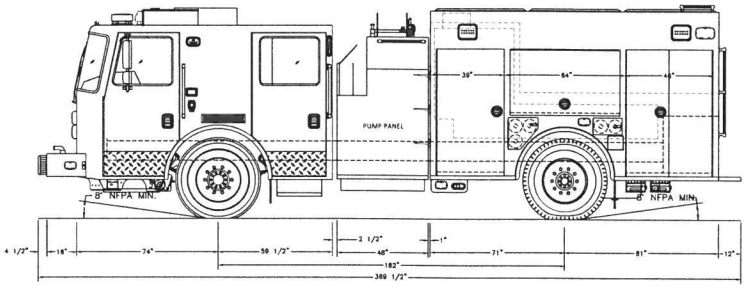
Brandon Gomez - Sales Representative, KME Fire Apparatus (California)











CAB: 100" KME SEVERE SERVICE XMFD FLAT ROOF ALUM
ENGINE & TRANS: CUMMINS X12 500 HP/ALLISON 4000 EVS
AXLES: 22,000# STEERTEK FRONT/24,000# REAR
PUMP: WATEROUS CSU-C20 1500 GPM SINGLE STAGE
WATER TANK: 500 GALLONS POLY TANK W/20 FOAM
BODY TYPE: 152" FLEX PUMPER 3/16" ALUMINUM
FOAM SYSTEM: FOAMPRO 2001

THIS DRAWING IS A GENERAL CONFIGURATION AND MAY NOT NECESSARILY REFLECT ALL CONTRACTUAL REQUIREMENTS. CONTRACT SPECIFICATIONS SHALL PREVAIL OVER DRAWING.

CUSTOMER APPROVAL:

NAME:

TITLE:

DATE:

SYM	DATE	REVISION DESCRIPTION	APP'D

SALES ENGINEER : TBD

DIMENSIONS ARE APPROXIMATE & MAY VARY DUE TO BUILD ADJUSTMENTS

SCALE	DWG SIZE	DRAWN BY	DATE
NONE	B	MJH	4/27/2022
		APPROVED BY	

KME PUMPER

HIGHLAND FD, CA

QUOTE# 7757-1

KME
REV GROUP
KME
ONE INDUSTRIAL COMPLEX - NESQUEHONING, PA 18240



KME FIRE APPARATUS

HIGHLAND FIRE DEPARTMENT

Quote # QUO0000007757 (Rev 1)

April 27, 2022

DESIGN CLAUSE

QTY: 1

These specifications outline the components, installation methods, and operational characteristics KME is agreeing to provide in order to meet the purchaser's requirements. Subject to the terms of the purchase agreement, other construction details not explicitly listed in these specifications will be determined at the discretion of the builder. In the event the purchaser desires a different construction or installation not already described in these specifications, additional charges may apply, and quoted lead time commitments will be adjusted.

MATERIAL & WORKMANSHIP

QTY: 1

All equipment furnished shall be guaranteed to be new and of current manufacture, to meet all requirements of these specifications.

All workmanship shall be of high quality and accomplished in a professional manner so as to insure a functional apparatus with a pleasing, aesthetic appearance.

VEHICLE FLUID PLATE

QTY: 1

As required by NFPA-1901, the contractor shall affix a permanent plate in the driver's compartment specifying the quantity and type of the following fluids used in the vehicle:

A permanent plate in the driving compartment shall specify the quantity and type of the following fluids used in the vehicle:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Pump transmission lubrication fluid
- Pump primer fluid
- Drive axle(s) lubrication fluid
- Air-conditioning refrigerant
- Air-conditioning lubrication oil
- Power steering fluid
- Cab tilt mechanism
- Transfer case fluid
- Equipment rack fluid
- Air compressor system lubricant
- Generator system lubricant
- Aerial systems

MANUFACTURED IN UNITED STATES

QTY: 1

The entire apparatus shall be assembled within the borders of the Continental United States to insure more readily available parts (without added costs and delays caused by tariffs and customs) and service.

AMP DRAW REPORT

QTY: 1

The bidder shall provide with their bid proposal and at the time of delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

A written load analysis, which shall include the following:

- The rating of the alternator.
- The minimum continuous load of each component that is specified per: Applicable NFPA-1901.
- Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load.

All of the above listed items shall be provided by the bidder per the applicable NFPA-1901.

PRODUCTION LEVEL ELECTRICAL DRAWINGS

QTY: 1

KME shall provide production level harness drawings for the specific unit to be built.

INSPECTION TRIPS (2)

QTY: 1

The successful bidder shall provide two (2) factory inspection trips to the apparatus manufacturer's facility.

Transportation, meals, lodging, and other requisite expenses shall be the bidder's responsibility.

TRIP ONE (1) AT PRE CONSTRUCTION

QTY: 1

Pre-construction / blueprint review.

TRIP TWO (2) AT FINAL COMPLETION

QTY: 1

Final inspection upon completion.

COMPLETION INFORMATION

QTY: 1

The contractor shall supply, at the time of delivery, at least one (1) copy of the following documents.

- Owners name and address Apparatus manufacturer, model and serial number
- Chassis make, model and serial number
- Front tire size and total rated capacity in pounds
- Rear tire size and total rated capacity in pounds
- Chassis weight distribution in pounds with water and manufacturer mounted equipment, front and rear
- Engine make, model, serial number, rated horsepower, rated speed and governed speed
- Type of fuels and fuel tank capacity
- Electrical system voltage and alternator output in amps.
- Battery make, model and total capacity in cold crank amps (CCA)
- Transmission make, model, and serial number. If so equipped chassis transmission PTO(s) make, model and gear ratio
- Pump make, model, rated capacity in gallons per minute (liters per minute where applicable) and serial number
- Pump transmission make, model, serial number and gear ratio
- Auxiliary pump make, model, rated capacity in gallons per minute (liters per minute where applicable) and serial number
- Water tank certified capacity in gallons or liters
- Paint manufacturer and paint number(s)

- Company name and signature of responsible company representative
- Certification of slip resistance of all stepping, standing and walking surfaces.

If the apparatus has a fire pump or an industrial supply pump, the pump manufacturer's certification of suction capability.

If the apparatus has a fire pump or an industrial supply pump, a copy of the apparatus manufacturer's approval for stationary pumping applications.

If the apparatus has a fire pump or an industrial supply pump, the engine manufacturers certified brake horsepower curve for the engine furnished, showing the maximum governed speed.

If the apparatus has a fire pump or an industrial supply pump, the pump manufacturers certification of hydrostatic test.

If the apparatus has a fire pump or an industrial supply pump, the third party certification of inspection and test for the fire pump (if applicable).

If the apparatus has an aerial device the third party certification of inspection and test for the aerial device.

If the apparatus has an aerial device, all the technical information required for inspections to comply with NFPA 1911, Standards for Testing Fire Department Aerial Devices.

If the apparatus has a fixed line voltage power source, the certification of the test for the fixed power source (if applicable).

If the apparatus is equipped with an air system, test results of the air quality, the SCBA fill station, and the air system installation.

Weight documents from certified scale - showing actual loading on the front axle, rear axle(s) and overall vehicle (with the water tank full but without personnel, equipment and hose) shall be supplied with the complete vehicle to determine compliance with NFPA-1901.

Written load analysis and results of electrical performance tests.

If the apparatus is equipped with a water tank, the certification of water tank capacity by the tank manufacturer.

FMVSS REQUIREMENT

QTY: 1

The chassis shall be certified by the apparatus manufacturer as conforming to all applicable Federal Motor Vehicle Safety Standards in effect at the date of contract.

This shall be attested to by the attachment of a FMVSS certification label on the vehicle by the contractor who shall be recognized as the responsible final manufacturer.

GENERAL CONSTRUCTION

QTY: 1

The complete apparatus, assemblies, subassemblies, component parts, etc., shall be designed and constructed with the due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subject.

All parts of the apparatus shall be designed with a factor of safety, which is equal to or greater than that which is considered standard and acceptable for this class of equipment in fire fighting service.

All parts of the apparatus shall be strong enough to withstand general service under full load.

The apparatus shall be so designed that the various parts and readily accessible for lubrication, inspection, adjustment and repair.

Bidder's specifications must meet minimum requirements of N.F.P.A. Pamphlet #1901 and all State and Federal Department of Transportation vehicle regulations at time of sale of unit.

The apparatus shall be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between front and rear axles that all specified equipment, including a full complement of specified ground ladders, full water tank, loose equipment, and firefighters shall be carried without overloading or injuring the apparatus.

INSTRUCTION MANUALS - TWO (2) SETS - USB

QTY: 1

In accordance with standard commercial practices, applicable to each vehicle (including body and special equipment) furnished under the contract, the following listed manuals and schematics, in the quantity specified, shall be provided at time of delivery of each vehicle.

The contractor shall supply at time of delivery, two (2) USB copies of a complete operation and service manual covering the complete apparatus as delivered and accepted.

The manual shall contain the following:

- Descriptions, specifications, and ratings of chassis, pump (if applicable), and aerial device
- Wiring diagrams
- Lubrication charts
- Operating instructions for the chassis, any major components such as a pump and any auxiliary systems
- Instructions regarding the frequency and procedures recommended for maintenance
- Parts replacement information

VEHICLE TRANSPORTATION - KME PROVIDED

QTY: 1

Transportation of the completed vehicle from the final manufacturing facility to the end user shall be provided by the manufacturer.

!!! CRITICAL OVERALL HEIGHT REQUIREMENT !!! - "NO

QTY: 1

!!! CRITICAL OVERALL LENGTH REQUIREMENT !!! - "NO

QTY: 1

NFPA CERTIFICATION

QTY: 1

The proposed apparatus will be constructed to withstand the severe and continuous use encountered during emergency fire fighting services.

The apparatus will be of the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained.

This proposal details the general design criteria of cab and chassis components, aerial device (if applicable), fire pump and related components (if applicable), water tank (if applicable), fire body, electrical components, painting, and equipment.

All items of these proposal specifications will conform to the fullest extent possible with the National Fire Protection Association Pamphlet No. 1901, latest edition, except as noted in the Statement-of-Exceptions.

KME will furnish satisfactory evidence of our ability to construct, supply service parts and technical assistance for the apparatus specified.

NFPA TREADPLATE CERTIFICATION

QTY: 1

All stepping, standing, and walking surfaces on the body shall meet NFPA #1901 anti-slip standards.

Aluminum tread plate utilized for stepping, standing, and walking surfaces shall be NFPA embossed compliant.

Upon request by the purchaser, the manufacturer shall supply proof of compliance with this requirement.

VERTICAL TREAD PLATE - NON-EMBOSSED

QTY: 1

The following vertical surfaces on the vehicle (if applicable) shall have non-embossed tread plate:

To include but not limited to:

- Rear of cab overlay
- Rear body overlay
- Front of body overlay
- Front pump house panel
- Custom cab step well
- Fender overlay
- Fender compartment doors
- Interior cab trim
- Upper body walkway walls
- Rescue body interior (walk-In/walk through)

"PUMPER FIRE APPARATUS" NFPA 2016 CHAPTERS

QTY: 1

The unit shall be designed to conform fully to the "Pumper Fire Apparatus" requirements as stated in the NFPA 1901 Standard (2016 Revision), which shall include the following required chapters as stated in this revision:

- Chapter 1 Administration
- Chapter 2 Referenced Publications
- Chapter 3 Definitions
- Chapter 4 General Requirements
- Chapter 5 Pumper Fire Apparatus
- Chapter 12 Chassis and Vehicle Components

- Chapter 13 Low Voltage Electrical Systems and Warning Devices
- Chapter 14 Driving and Crew Areas
- Chapter 15 Body, Compartments and Equipment Mounting
- Chapter 16 Fire Pumps and Associated Equipment
- Chapter 18 Water Tanks

NFPA "CHAPTER 20" FOAM SYSTEM REQUIREMENTS

QTY: 1

Chapter 20 Foam Proportioning Systems

SAFETY SIGNS (NFPA REQUIRED)

QTY: 1

Safety sign(s) shall be located on the vehicle at the rear step, and at any cross walkway(s), to warn personnel that riding in or on these areas while the vehicle is in motion is prohibited.

THIRD PARTY TESTING

QTY: 1

If required by the specific chapters of NFPA-1901, the proposed unit shall be tested and certified by independent third party inspectors.

All test work for fire pumps outlined in NFPA 1901, Edition shall be conducted.

The third party inspectors shall provide the manufacturer a complete written examination and test report for each inspection performed at the manufacturer's facility.

This report specifies the points of inspection and results of such examinations and tests.

The inspectors performing the test work on the units are certified to Level II in the required NDT methods, under the requirements outlined in ASNT document CP-189.

The actual person(s) performing the inspection shall present for review proof of Level II Certification in the required NDT methods.

The apparatus manufacturer shall designate, in writing, who is qualified to witness and certify these test results.

Prior to submittal to the automotive fire apparatus manufacturer, the final Report shall be reviewed by the Supervisor of Fire Equipment Services and a Registered Professional Engineer, both of whom are directly involved with the aerial device certification program.

When the unit successfully meets all the requirements outlined in NFPA 1901, current edition, the third party inspector shall issue a Certificate of Automotive Fire Apparatus Examination and Test stating the unit's compliance with NFPA- 1901.

FOAM SYSTEM TESTING

QTY: 1

When the unit successfully meets all the requirements outlined in NFPA 1901, Latest Edition, Third party inspectors shall issue a Certificate of Automotive Fire Apparatus Examination and Test stating the unit's compliance with the required foam proportioning section of NFPA.

SEVERE SERVICE CAB - BASE, 100" - S2020

QTY: 1

The cab shall be a custom tilt style, built specifically for fire service.

The cab shall be a cab over engine design, with integral tilt mechanism and engine access from inside the cab.

The cab interior shall be the "Open-Space" design with no wall, window or vertical support posts between the front and rear crew areas to allow direct communication, better visibility and air circulation in the cab.

CAB MATERIAL

QTY: 1

The cab shall be fabricated from 5052-H 32 aluminum alloy, utilizing the minimum material thickness as follows:

- Cab side panels 0.125 thick (1/8")
- Cab roof 0.125 thick (1/8")
- Forward cab front sheet 0.125 thick (1/8")
- Interior cab panels 0.125 thick (1/8")
- Other panels 0.125 thick (1/8")
- Cab doors 0.1875 thick (3/16")
- Engine enclosure side panels 0.250 thick (1/4")

Cab, sub-frame shall be a welded assembly, fabricated of 6063 structural aluminum alloy. This frame shall extend the full length and width of the cab and be secured to the chassis frame through two (2) rear, urethane, self centering load cushions, two (2) forward pivot brackets, and two (2) cab locks. The cab shall be of entirely welded construction.

The front cab wall shall be of double wall type construction, featuring an inner and outer panel. {No Exceptions}

CRASH TESTING

QTY: 1

To ensure the safety of the cab occupants and cab integrity, proof of third party testing shall be provided.

The cab shall be certified for SAEJ2422 side impact, SAEJ2420 with ECER29 cab front impact, and ECER29 cab roof strength.

Furthermore, proof of testing and certification shall be provided that the cab, in accordance to SAE J2420 was front impact tested at 2.1 times the standard energy required in SAE J2420, thus exceeding the NFPA requirement.

This test shall be performed with no support immediately behind the cab, thus providing an authentic test result.

CAB LENGTH

QTY: 1

Minimum Cab Dimensions:

• Overall width	100"
• Inside width of ceiling	92"
• Front area floor to ceiling	59-3/4"
• Top of front seat to ceiling	42" (depending upon seat type)
• Seat back to steering wheel	21-1/4" (depending upon seat type)
• Inside width (door to engine enclosure)	27-1/2" (driver's side, at the floor)
• Inside width (door to engine enclosure)	24" (officer's side, at the floor)
• Crew seat area width	92"

- Front cab floor to top of engine enclosure 27"
- Front cab floor to top of center dash 36-1/4"
- Outer crew seat risers to rear wall 41-1/2"
- Centerline axle to rear wall 59-1/2"

Glass Area Dimensions:

- Windshield (Contour) 3,422 sq. in.
- Side door window, retractable 625 sq. in. each
- Side fixed crew windows 550 sq. in. each

CAB ROOF

QTY: 1

Cab Entry Door Height Dimensions

Forward door opening 73" high
Rear door opening 73-3/4" high

CAB ROOF

The roof will be a flat roof design with radius edges for an aesthetic, streamline appearance. The roof shall be constructed the same material as the main structure and shall be internally reinforced using framing which shall span the entire width and length of the cab for maximum structural integrity. This shall allow the roof to support personnel and roof mounted equipment without the need for additional reinforcement.

Approximate dimensions:

Crew area floor to ceiling 54"
Top of crew seat to ceiling 35" (depending upon seat type)

TREAD PLATE OVERLAY ON CAB ROOF

QTY: 1

A bright finish tread plate overlay shall be placed on the cab roof.

This overlay shall be placed on the raised roof section, or if a flat roof cab is being utilized, from the area of the "B" post area-rearward, and extending back to the end of the cab roof.

This tread plate overlay shall be sealed with caulking around the edges to prevent moisture from entering the area between the cab roof and the overlay.

CAB ROOF DRIP RAIL

QTY: 1

For enhanced protection from inclement weather, an integral drip rail shall be furnished on each side of the cab roof. The drip rail shall extend the full length of the cab roof.

CAST ANTI-SLIP ENTRY STEPS

QTY: 1

The front entrance steps shall be a minimum of 9" deep.

Each step shall be a cast aluminum, open grate style step fabricated by Cast Products Inc. with a polished aluminum outer surface.

The cab step risers shall be overlaid with.063" tread plate plate.

The rear entrance steps shall be a minimum of 9" deep.

Each step shall be a cast aluminum, open grate style step fabricated by Cast Products Inc. with a polished aluminum outer surface.

The cab step risers shall be overlaid with.063" tread plate plate.

BATTERY ACCESS DOORS

QTY: 1

The battery access door(s) shall be 1/8" tread plate, drop down doors with thumb latches at each side rear cab step well.

AUXILIARY CAB STEPS

QTY: 1

An auxiliary cab step shall be provided under each front cab door, outside of the cab.

The step shall be constructed from aluminum with brushed aluminum on the vertical supports.

The stepping surface shall be Grip-Strut anti-slip material.

AUXILIARY CAB STEPS

QTY: 1

An auxiliary cab step shall be provided under each rear cab door outside of the cab. The step shall be constructed from aluminum with brushed aluminum on the vertical supports. The stepping surface shall be Grip-Strut, anti-slip material.

SCOTCHLITE INTERIOR OF DOOR PANELS

QTY: 1

Each interior cab door panel shall be equipped with reflective ScotchLite material that shall cover at least 96 in.

CAB DOORS

QTY: 1

Four (4) side-opening doors shall be provided. The cab doors shall be shortened to the floorboard level thus leaving an exposed step well area at each cab entrance. The cab doors shall be totally constructed of aluminum with an extruded aluminum frame and an aluminum outer door skin. The forward cab door opening shall be a minimum of 37" wide and the rear cab door opening shall be a minimum of 37" wide. The rearward cab doors shall have a radius cutout allowing the door opening to protrude forward over the cab wheel well, while providing full access to the rear crew area. There shall be a heavy duty, piano type, stainless steel hinge on each door of a minimum pin diameter of 3/8". Hinges shall be slotted for ease of horizontal and vertical adjustment. There shall be a cab door seal and the doors shall close flush with the side of the cab. A heavy duty 6" wide belting material shall be utilized to prevent the cab doors from opening greater than 90 degrees.

HIDDEN WEATHER STRIP

QTY: 1

The cab doors shall be equipped with a weather strip seal track on the lower portion of the door. Bolt-on tracks shall be provided to allow for a snap-on replaceable weather stripping to be changed easily and shall be fastened in place with nutserts to ensure longevity.

CAB DOOR LATCHES

QTY: 1

Heavy-duty, bright finish cast paddle latches shall be provided on the interior and exterior of each cab door.

Door latch mechanisms which utilize spring steel clamps shall not be considered due to their tendency to both rust and break.

The interior door latch cables/rods are to be designed to reduce adjustment or possible wear at the adjustment turnbuckles.

KEY MODEL #751

QTY: 1

The specified door lock cylinder/s shall be equipped with #751 key/s.

ELECTRIC WINDOWS

QTY: 1

Each side cab door shall have a tinted retractable window. The window track shall be designed into the door frame extrusion, which shall be extruded with a track groove to house a window track and seal. The window shall be capable of being removed from an access slot designed in the bottom of the door frame.

All side cab doors shall be equipped with electrically operated windows. Power window controls for all doors shall be provided on the driver's lower wing dash panel. The officer side power window control shall be on the officer's lower wing dash panel.

The control for each rear door shall be a rocker type, automotive style switch located on the inside door panel within easy reach.

CAB DOOR WINDOW SILL PROTECTION

QTY: 1

Brushed stainless steel protection caps shall be provided on each door interior window sill.

The caps shall be fabricated from 18-gauge brushed stainless steel and cover from the window edge down over the sill and meet the inner door panel top edge.

DOOR PANELS

QTY: 1

The upper section of each interior cab door panel shall be covered with an upholstered door panel.

Each door shall be upholstered with a durawear material that matches the color of the interior.

This panel shall terminate approximately 10" above the floor level.

DOOR PANELS

QTY: 1

The lower and full width portion of each door interior shall have brushed stainless steel scuff plates to provide maximum wear protection.

These plates shall extend above the inside cab floor level when the doors are closed.

WINDSHIELD

QTY: 1

A two piece, symmetrical, safety glass windshield shall be provided on the cab for the driver and officer providing a clear viewing area.

The windshields shall be full width to the center of the front cab support for each side and provide the occupants with a panoramic view.

To provide enhanced peripheral vision on each side of the cab, the windshield and cab structure shall be designed with radius corners, which provide a minimum of 8" of glass area, measured from the glass face to the side edge near the door post.

The windshield shall consist of three (3) layers; the outer light, the middle safety laminate and the inner light.

The thick outer light layer shall provide superior chip resistance, the middle safety laminate layer shall prevent the windshield glass pieces from detaching in the event of breakage and the inner light shall provide yet another chip resistant layer.

The windshield will be a contour design with 3244 sq. in. of area for improved visibility and style.

The windshield glass shall be designed so it can be used on either the driver or officer side.

Single piece windshields that utilize epoxy or that are bonded to the cab structure shall not be acceptable.

WINDSHIELD WIPERS & WASHERS

QTY: 1

Dual, electric operated, pantographic type windshield wipers shall be provided.

One (1) electric drive motor shall be provided for each wiper.

Wipers shall have "HI/LO" and "INTERMITTENT" operating speeds. "HI/LO" speeds shall be controlled by a steering column control, within the turn signal control stem.

"INTERMITTENT" operation shall be controlled by a twist switch within the control on the steering column.

The wipers shall be of the self-parking type.

Windshield washers shall be electric operated wet-arm type with a 1/2 gallon washer fluid reservoir, mounted behind a hinged access door in the officer side front cab step well area. The fluid level shall be visible through a cutout in the access door. This door shall be secured with two thumb latches.

The washer control shall be integral with the intermittent wiper control switch.

There shall be individual removable panels on the front face of the cab for access to the wiper motor assemblies.

Windshield wipers shall survive testing in excess of 3 million cycles in accordance with section 6.2 of SAE J198 "Windshield Wiper Systems – Trucks, Buses and Multipurpose Vehicles".

The bidder shall certify that the wiper system design has been "Third party tested" and that the wiper system has met this criteria.

SIDE VIEWING WINDOWS

QTY: 1

A fixed, tinted window with 620 sq. in of glass area shall be provided on each side of the cab behind the forward cab doors.

This window will be the same height as the window in the rear cab door for maximum visibility.

DARK TINT WINDOWS

QTY: 1

The windshield and the forward cab door glass shall be provided with standard DOT, green automotive tint.

If provided, the side cab windows to the rear of the front doors, the rear cab door windows, and any rear viewing windows shall be equipped with a dark, automotive tint.

CAB GRAB RAILS EXTERIOR

QTY: 1

1-1/4" diameter x 28" long, knurled bright anodized aluminum handrails shall be provided.

There will be one (1) at each cab door entrance.

Grab rail stanchions shall be chrome plated and offset when necessary to prevent "hand-pinching" when opening or closing the doors.

Formed rubber gaskets shall be provided between each stanchion base and the cab surface.

CAB GRAB HANDLES, INTERIOR

QTY: 1

Grab rails shall be provided to assist in entry and exiting of the cab. Each grab rail shall be a cast aluminum "D" style handle that shall have a black powder coat finish and shall be located in the following locations:

- One (1) 11" long, horizontally mounted on each front cab door on the interior door panel
- One (1) 11" long, horizontally mounted on each rear cab door on the interior door panel

INTERIOR "A" & "C" POST GRAB HANDLES-BLACK

QTY: 1

Three (3) 12" long, vertically mounted, one (1) on the driver's side cab interior on the "A" post and one (1) each side of the cab interior on the "C" post in the crew area.

FRONT CAB GRILLE

QTY: 1

A square mirror finished stainless steel grille shall be installed to allow for maximum air flow to the charge air cooler and the radiator. The top of the grille will have a flat area for the manufacturers emblem.

A four (4) inch wide solid band shall extend across the middle of the grill for lettering or lighting options.

SIDE CAB GRILLES

QTY: 1

Two (2) rectangle, mirror finished stainless steel air inlets/outlets shall be provided horizontally above the wheel well opening, one on each side of the cab.

The grilles shall be equipped with a mesh screen to serve as a secondary ember separator.

The design shall permit proper ducting of air through the engine compartment and cooling system.

This system shall be such that particles larger than .039 inches (1 mm) in diameter cannot reach the air filter element.

CAB EXTERIOR REAR WALL

QTY: 1

A bright finish tread plate overlay shall be provided over the entire exterior rear cab wall.

The tread plate overlay shall be sealed with caulking around the edges to prevent moisture from getting between the cab and the overlay.

CAB WHEEL WELL LINERS - ALUMINUM

QTY: 1

The front cab, wheel wells shall be equipped with fully removable bolt-in aluminum inner wheel well liners.

The liners shall extend full depth into the truck frame.

The completely washable wheel well liners shall be designed to protect the cab substructure, inner panels, and other miscellaneous installed components from road salts, debris, dirt accumulation and corrosion.

ALUMINUM CAB FENDERETTES

QTY: 1

The cab wheel well openings shall be trimmed with replaceable, bolt-in, polished aluminum fenderettes.

The fenderettes shall be secured to the cab with stainless steel, threaded fasteners along the internal perimeter of the wheel well.

Dissimilar metal tape and black vinyl trim molding shall be used where the cab and fender meet.

FRONT MUD FLAPS

QTY: 1

Heavy duty, black rubber type mud flaps shall be provided behind the front wheels.

CAB MIRRORS

QTY: 1

Two (2) Lang-Mekra 300 Series Aero style mirror assemblies shall be furnished, one on each front cab door.

Each mirror assembly will have a 14-3/8 x 7-1/4 shatterproof, flat glass head mounted in a 15 x 8 chrome plated housing and a 7-3/4 x 5-7/8 shatterproof, convex head mounted in its own 8-1/2 x 6-5/8 chrome plated housing.

Each mirror housing shall have a field replaceable back cover.

Each head will be electrically heated and motorized with controls on the driver's lower wing panel.

The upper, flat glass portion shall be electrically controlled from the drivers seating position and the lower convex sections shall be manually adjustable.

The mirror heads shall be installed on a one piece, break away style, stainless steel loop mounted to the forward portion of the door with two (2) brackets forward of the windows.

MIRROR CONTROL

QTY: 1

In addition to the switches on the driver's lower wing panel, the mirror position and heat (if applicable) controls shall be programmed into the multiplex control screen.

DOOR WIDTH, X-MFD, LFD & X-LFD - 100" SS

QTY: 1

Cab Entry Door Width Dimensions:

- Forward door opening 37" wide
- Rear door opening 37" wide

Cab Entry Step Dimensions:

- Forward door recessed step 29 3/4" wide x 8-1/2" deep
- Rear door recessed step 25 3/4" wide x 8-1/2" deep

INTERIOR TRIM- GRAY VINYL

QTY: 1

The cab interior shall be constructed to create an ergonomically designed interior to be user friendly and functional for the driver and officer.

The forward overhead panel shall be a fabricated module, which shall have six (6), 3" diameter, adjustable, windshield defroster/heat vents and four (4) comfort vents.

All interior upholstery panels shall be gray in color.

The upholstered cab overhead and side wall portions shall utilize vinyl upholstery with padding underneath to provide additional insulation.

INTERIOR CAB WALL GRAY VINYL

QTY: 1

The interior rear wall of the cab shall be covered with gray vinyl for durability and shall match the other upholstered areas of the cab.

CAB FLOORING

QTY: 1

The floor of the driver's compartment and the floor of the crew area shall be lined with Baryfol vinyl composite flooring to comply with NFPA noise and heat requirements.

ACOUSTICAL INSULATION

QTY: 1

One (1) inch thick acoustical insulation shall be provided on the cab roof, rear and side walls of the cab.

This material shall be fitted between the cab structural members and secured with adhesive to provide an insulation barrier for noise and heat.

ENGINE ENCLOSURE ACCESS

QTY: 1

A composite, hinged access door shall be provided in the top rearward portion of the engine enclosure. The door shall allow access to the engine oil, transmission fluid, power steering fluid level dipsticks. The access door shall be provided with a flush mounted latch. The underside of the access door shall be insulated.

HD SOUNDPROOFING/ INSULATION PACKAGE UNDER ENGINE

QTY: 1

The underside of the engine enclosure shall be overlaid with Milcut, MilShield insulation. MilShield can withstand temperatures up to 1300°F. To ensure a clean, smooth surface, this material shall have a heavy aluminum foil covering and shall be retained by aluminum panels fastened to the cab structure as needed. Any gaps in this insulation barrier shall be sealed with 3M #425 aluminized high temperature tape.

HD SOUNDPROOFING/INSULATION BETWEEN UPHOLSTERY

QTY: 1

To further reduce the noise and heat levels inside the cab, 1/4" foam upholstery material shall be installed on all interior surfaces of the engine enclosure, below the upholstery material.

ENGINE ENCLOSURE OVERLAY MATERIAL

QTY: 1

The forward portion of the engine enclosure shall be covered with vinyl material formed overlay to match the balance of the cab interior. To allow maximum "elbow room" for the driver and officer, the forward portion of the engine enclosure shall feature a contour shape. The engine enclosure shall not significantly obstruct the driver's vision in any direction. The enclosure shall be an integral part of the cab structure, which shall be constructed from material providing adequate strength to support radio, map boxes, etc. The engine enclosure shall be insulated to protect from heat and sound. The noise insulation shall keep the DBA level within the limits stated in the current NFPA series 1901 pamphlet.

SUN VISORS

QTY: 1

To provide maximum protection for the driver and officer, two (2) padded vinyl sun visors shall be mounted in the cab overhead on each side.

OVERHEAD PANEL, FABRICATED CENTER THREE WING PANEL

QTY: 1

An overhead console with a center three piece removeable panel assembly shall be provided on the cab roof between the driver and officer to permit installation of the multiplex smaller sized control screens and other components as space allows.

The overhead console shall be painted to match the interior of the cab.

The overhead console shall not obstruct the driver's vision through the officer's side window.

SEAT AND SEAT BELT ANCHOR TESTING

QTY: 1

Each seat belt anchor shall be tested to withstand 3,000lbs of pull on both the lap and shoulder belt in accordance with FMVSS 210 section 4.2.

Each seat mounting position shall be tested to withstand 20G's of force in accordance with FMVSS 207 section 4.2(c).

Both tests shall be performed and verified at a third party testing and evaluation center.

STORAGE COMPARTMENTS UNDER FRONT SEATS

QTY: 1

There shall be a compartment provided under each front seat.

Each compartment shall be accessible from the front of the seat riser when the door is opened.

DRIVERS SEAT, VALOR AIR SUSPENSION, ABTS

QTY: 1

The driver's seat shall be a Valor, air suspension, race back bucket ABTS LH seat.

The seat shall have a contoured and padded seat cushion with adjustable lumbar support.

The seat shall have a horizontal, slide adjustment and a vertical height adjustment with an adjustable back recline.

The seat air suspension shall be pneumatically controlled from a switch on the forward, lower edge of the seat.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with a lap belt, and a dual retractor belt configuration.

It should have ready reach built into the seat assembly.

OFFICERS SEAT, VALOR - AIR SUSPENSION, ABTS

QTY: 1

The officer's seat shall be a Valor air suspension, ABTS RH, bucket seat.

The seat shall have a contoured and padded seat cushion with adjustable lumbar support.

The seat shall have a horizontal slide adjustment and a vertical height adjustment with adjustable back recline.

The seat air suspension shall be pneumatically controlled from a switch on the forward, lower edge of the seat.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

FORWARD FACING SEAT, OUTBOARD, DS

QTY: 1

The driver's side outboard forward facing crew seat position shall be provided.

The inner rear wall of the cab will serve for back support.

The seating position shall be equipped with a red, 3-point shoulder harness with lap belt.

FORWARD FACING SEAT, OUTBOARD, DS

QTY: 1

The driver's side outboard, forward facing, crew seat position shall have a flip-up style seat.

FORWARD FACING SEAT, CENTERED

QTY: 1

The center forward facing crew seat position shall be provided.

The inner rear wall of the cab will serve for back support.

The seating position shall be equipped with a red, 3-point shoulder harness with lap belt.

FORWARD FACING SEAT, CENTERED

QTY: 1

The center forward facing, crew seat position shall have a flip-up style seat.

FORWARD FACING SEAT, OUTBOARD, OS

QTY: 1

The officer's side outboard, forward facing, crew seat position shall be provided.

The inner rear wall of the cab will serve for back support.

The seating position shall be equipped with a red, 3-point, shoulder harness with lap belt.

FORWARD FACING SEAT, OUTBOARD, OS

QTY: 1

The officer's side outboard, forward facing, crew seat shall have a flip-up style seat.

REAR WALL PADDING FOR FORWARD FACING SEATS

QTY: 1

2" thick padding will be provided at each forward facing seating position.

SEAT ADJUSTMENT NOTICE

QTY: 1

If equipped, adjustable seats may be limited by outside factors such as optional installed equipment (ie. ems compartments, battery chargers, SCBA cylinder brackets) and seat placement.

HELMET HOLDER

QTY: 3

Each seat position shall have a On Scene Solution Talon Helmet Locking System, meeting NFPA 1901, 2016. The holder shall accommodate all helmet sizes.

VALOR SEATING MATERIAL - BLACK CORDURA

QTY: 1

The seats shall be upholstered with Black Cordura material with black stitching as provided by Valor.

VEHICLE DATA RECORDER

QTY: 1

A Class 1 Vehicle Data Recorder (VDR) system shall be provided.

The system shall include an NFPA compliant, "Black Box" with reporting software that shall be capable of data storage to coincide with the NFPA requirements.

Data storage capabilities shall include interfaces with the following systems:

- Display module (Master Optical Warning Device)
- VDR, date time stamp
- Max Vehicle speed (MPH)
- Vehicle acceleration / deceleration (MPH/Sec.)
- Engine Speed (RPM)
- ABS event
- Data password protected
- Data sampled once per second, in 48-hour loop
- Data sampled min by min for 100 engine hours
- Throttle position (% of Throttle)
- Data software
- PC / Mac Compatible
- Data summary reports

The VDR data shall be downloadable by USB cable to a computer using either Microsoft or Apple operating systems.

SEAT BELT WARNING SYSTEM

QTY: 1

The apparatus shall be equipped with a Class 1, seat belt warning system.

The system shall consist of a seat belt module and shall display the seating positions through the main, UltraView screen.

FIVE (5) SEATING POSITIONS

QTY: 1

Seat belt and seat cushion sensors shall be provided on the five (5) specified seating positions.

DELETE - 4FRONT - FRONTAL AIR BAG SYSTEM

QTY: 1

CAB EMS COMPARTMENT

QTY: 1

A dual storage compartment shall be mounted in the cab in lieu of rearward facing crew seats. Each compartment shall be approximately 26" high x 23" wide x depth to the engine enclosure . Each door opening shall be approximately 21 7/8 " high x 21" wide. Each compartment shall be constructed of smooth aluminum and shall be equipped with a roll-up door.
The compartments shall be constructed of aluminum and the exposed area of the compartment inside the cab will be painted to match the interior surface color of the cab. The compartment shall be equipped with a roll-up door.

LIGHTING

QTY: 1

The EMS compartment shall be equipped with the noted quantity Amdor LED interior light(s). The lighting shall be wired to automatically activate when the compartment door is open and the master battery switch is in the "on" position.

OFFICER FOLD DOWN FOOT REST

QTY: 1

A fold down foot rest shall be provided on the firewall electrical access panel, in front of the officer's seating position.

The foot rest shall be designed with a 14" wide x 3" deep foot rest plate.

COMPUTER TERMINAL IN FRONT OF OFFICER

QTY: 1

There shall be a flat working surface area in front of the officer.

HEATER/DEFROSTER & ACCESSORIES

QTY: 1

A climate-control system shall be provided for total cab environmental comfort as well as provide heat, cooling and defrost capabilities to various areas in the cab.
The system shall consist of a single evaporator unit, mounted in the center overhead of the cab.

The ceiling mounted external evaporator/heater unit shall include the following:

- Heavy-duty, high output blower.
- High efficiency coil that includes "rifled" tubing and oversized header tubes for maximum refrigerant distribution.
- Four (4) 2" diameter, adjustable louvers; two (2) each side of the cab overhead, facing the driver and officer seat positions.
- Six (6) larger louvers evenly spaced, forward of the overhead assembly, facing the windshield.
- Multi-vent defroster louvers positioned above the windshield will provide adequate airflow for windshield defrost.
- Four (4) lower vents shall be provided, one (1) below the driver and officer seat positions and one (1) under each outboard rear facing crew seat.
- Twelve (12) vents shall be provided on the HVAC unit for crew comfort.
- Damper controls shall be pneumatically operated to provide air discharge to the windshield, front overhead air discharge louvers as required.
- An adjustable electric water valve to control the amount of heat.
- Housing shall be fully insulated and enclosed.

- BTU: 63,200 A/C
- BTU: 78,000 Heat
- CFM: 680 Heat as mounted in the cab
- CFM: 680 A/C as mounted in the cab

The ceiling mounted evaporator unit/s shall be designed with an ergonomically designed cover to provide maximum headroom and a pleasing appearance with a crinkle coat texture and include a deep well condensate collection pan, which shall be drained by a gravity system into the rear corners of the engine compartment utilizing stainless steel drain poles.

Evaporator units shall be mounted on the cab roof, enclosed by aluminum panels painted white. The evaporator louvers and controls shall penetrate the cab roof into occupant compartments to the least extent practicable. Evaporator units shall be mounted on the cab ceiling, enclosed by a black painted aluminum cover.

A serviceable foam intake filter shall be installed on the rear of the evaporator.

All defrost/heating systems will be plumbed with one (1) seasonal shut-off valve mounted in the officer side wheel well area.

A 12-volt roof top dual condenser shall be mounted on the cab roof. The condenser shall be designed with high performance, long life fan assemblies with sealed housings and shaft. The condenser and coil design shall include rifled tubing for maximum efficiency. Each coil shall be painted black. The condenser unit must include a receiver drier with a high and low pressure switch. The wire harness shall include necessary wiring for the clutch circuit as well as a separate power relay circuit.

Mounting design shall enable easy servicing of all components and unit replacement if necessary.

The system shall utilize one (1) Valeo TM-31 HD engine mounted compressor driven by a Poly "V" serpentine belt installed in accordance with the manufacturer's requirements. The system shall use R134a refrigerant. The air conditioner lines shall be EATON GH001 EverCool SAE J2064 Type E hose secured using EATON E-Z Clip system components.

Air conditioning hoses shall be #10 hose for discharge and #12 hose for suction with steel hose and end fittings provided at the compressor. The heater hose installation shall not incorporate a copper tube manifold.
The air conditioning system shall be configured to only operate when the vehicle's engine is running. The blowers, in both evaporators, shall be in operation whenever the air conditioning system is activated.

Heater-defroster shall have a three-speed electric fan with illuminated controls. The controls system shall actuate the air-distribution system with air cylinders, which are to be separated from the air brake system by an 85-90 psi pressure protection valve.

The 12-volt system for the air conditioners shall have first priority to be load managed.

The heater/defroster unit shall clear the windshield in half-the-time required by SAE standards.

PAINT ROOF MOUNTED CONDENSOR

QTY: 1

The roof mounted, air conditioning, condenser housing(s) shall be painted to match the cab roof color.

TREAD PLATE OVERLAY ON ROOF MOUNTED CONDENSOR

QTY: 1

The roof mounted air conditioning condenser housing shall have a tread plate overlay on the top of the unit.

HVAC CONTROLS

QTY: 1

HVAC controls shall be provided on the driver's overhead wing panel, consisting of a mode selector control, front fan speed, rear fan speed, air conditioning on/off and temperature range selection.

The controls shall be clearly labeled, adequately backlit.

The multiplex system control screen shall also contain all controls for the cab HVAC control system.

WINDSHIELD DEFOGGER FANS

QTY: 1

Two (2) eight (8) inch diameter, two-speed, defogger fans shall be provided in addition to the standard windshield defroster. The fans will be mounted under the center overhead panel, one (1) each side.

ACTIVE AIR PURIFICATION SYSTEM

QTY: 1

An Active Air Purification system shall be provided. The system utilizes RGF's Photohydroionization® Cell (PHI-Cell®) technology which produces hydro-peroxides, and hydroxide ions. The resulting Advanced Oxidation Process reduces airborne mold, bacteria, viruses and odors up to 99%.
The unit shall have a stainless steel housing and contain a fan to move air across the PHI cell and out of the housing.
The system shall be wired to the vehicle 12 volt system. The unit shall be powered on either when the shore power is connected or the apparatus ignition power is switched on. The air purification system shall be installed in the crew area as specified.

CAB TILT SYSTEM

QTY: 1

A hydraulic cab lift system shall be provided, consisting of an electric-powered hydraulic pump, fluid reservoir, dual lift cylinders, remote cab lift controls and all necessary hoses and valves.

The cab tilt mechanism shall be custom designed for ease of maintenance and consist of two (2) hydraulic cylinders connect to the cab and the frame assembly.

Hydraulic lines shall be rated at 20,000 PSI burst pressure.

The hydraulic cylinders shall be equipped with a velocity fuse that protects the cab from accidentally descending when the cab is in the tilt position.

Hydraulic cylinders shall be detachable to allow removal of the engine for major service.

A remote cable operated mechanical cylinder stay bar and release shall be provided to insure a positive lock in the tilted position.

The two (2) rear cab latches shall be of the hydraulic pressure release, automatic re-latching type and provide an automatic positive lock when the cab is lowered.

The tilt pump shall be electric over hydraulic type, with a pressure rating of not less than 4,000 PSI. Additionally, the cab tilt device shall be both electrically and hydraulically interlocked to prevent inadvertent activation of the cab tilt system.

- A "CAB NOT LATCHED" indicator shall be provided in the cab dash-warning cluster.

- A dual switch control system shall be provided for the cab tilt, located on the passenger side of the vehicle or on the optional tether control. System shall consist of two (2) position toggle switch along with a rubber covered push button momentary switch, which must be activated for the cab to raise or lower.

MANUAL CAB TILT

QTY: 1

An auxiliary, manual cab, lift backup system shall be furnished inside the passenger side of the pump enclosure or front compartment for use in the event of total electrical shutdown.

The removable handle shall be provided as loose equipment.

CAB TILT AUDIBLE ALARM

QTY: 1

An audible alarm shall be provided to alert the operator when the cab is being raised or lowered.

SECONDARY SAFETY LOCK

QTY: 1

A secondary, swing down, safety bar shall be applied to the driver side cab tilt cylinder with a manual lock to engage the lock, as required for extended service operations.

PARKING BRAKE/CAB TILT INTERLOCK

QTY: 1

The cab tilt control shall be equipped with an interlock.

This shall disable the cab tilt system in the event the parking brake is not applied.

FRAME ASSEMBLY

QTY: 1

The chassis frame shall be assembled in its entirety at the manufacturer's facility. This will prevent any split responsibility in warranty or service.

The frame shall consist of two (2) channels fastened together by cross members.

All structural fasteners used in the frame shall be Grade 8 hardware. Hardened steel washers shall be used under all bolt heads and nuts to avoid stress concentrations. Top flange shall be free of bolt heads. All spring hangers shall be machined steel castings. Frame assemblies that are welded or assembled with "Huck" type fasteners are not acceptable."

Each main frame rail shall be 10-1/4" x 4" x 3/8", fabricated from Domex™ 110,000 PSI minimum yield steel, with a minimum section modulus of 18.396 cu in and a resisting bending moment (RBM) of 2,023,560 inch pounds. Frames are built for the specific apparatus under construction so that no unnecessary holes or modifications are made to the frame assembly.

A full length inner frame liner 9.44" X 3.63" X 3/8" shall be installed. Total section modulus of each rail, with liner, shall be 33.56 cu in and the total resisting bending moment (RBM) shall be a minimum of 3,691,050 in-lbs, per rail.

The chassis frame assembly, consisting of frame rails, cross members, axles and steering gear(s), shall be finish painted before installation of any electrical wiring, fuel system components, or air system components. All components or brackets fastened to the frame rails shall be cleaned, primed and painted prior to being attached to the frame rails.

FRONT BUMPER

QTY: 1

A 12" high, 101" wide, two (2) ribbed, bright finish, stainless steel, front bumper shall be provided.

The bumper shall be a wrapped design to match the contour of the front cab sheet.

FRONT BUMPER EXTENSION

QTY: 1

The bumper shall be extended 16" with a polished aluminum, tread plate, gravel shield enclosing the top and ends.

CENTER WELL

QTY: 1

One (1) storage well constructed of 1/8" aluminum shall be installed in the gravel shield. This storage well shall be center mounted between the chassis frame rails. The bottom of the storage well shall have a minimum of four (4) drain holes.

ONE (1) HINGED, LATCHED, TREAD PLATE COVE

QTY: 1

One (1) hinged, latched, aluminum, tread plate cover shall be installed on the storage well located in the center of the bumper extension.

CENTER WELL - HOSE CAPACITY

QTY: 1

The center storage well shall have the desired capacity of:

CENTER WELL - 100 FEET OF 1-3/4" HOSE

QTY: 1

100' of 1 3/4" hose

TOW HOOKS

QTY: 1

Two (2) front chrome plate, forged steel tow hooks shall be fastened directly to the bumper support structure and recessed through the front bumper with cutouts provided in the bumper for access.

The tow hooks shall be fastened with grade 8 bolts and nuts.

FRONT AXLE

QTY: 1

The Steertek NXT front axle beam shall be rated to carry 22,000 lbs. and consist of a fabricated box cross section construction with 100ksi plate and a continuous beam architecture to minimize stress points for added durability.

The axle shall incorporate a removable kingpin feature for ease of kingpin serviceability. The knuckles shall allow for compatibility with disc brakes mounted at the 12 o'clock position and with drum brakes, and allow for wheel cut up to 45 degrees. They shall also utilize premium kingpin bushings and seals to provide enhanced protection from the elements to improve bushing life. Oil seals with viewing window shall be provided.

The suspension shall consist of multi-leaf parabolic springs rated at 22,000 lbs with double wrapped front eye that are packaged within an integrated clamp group that allows for ease of OEM assembly on to the axle beam and reduced part count. The clamp group bolts are tightened on the top of the clamp group opposed to the traditional U-bolt on the bottom making it easier to access with a torque wrench for servicing. The spring shall also include a lower shock attachment with an upturned eye. The springs will contain threaded pin bushings to allow simplification of spring alignment as well as long service life and

improved ride quality. The suspension and spring geometry will be optimized to provide improved bump steer and Ackermann. Two ZF Sachs twin-tube shocks shall be provided with the front suspension assembly. The shocks shall be specially developed for parabolic leaf springs with a digressive characteristic curve using a patented piston system. The shocks shall feature multi-stage piston and base valves. The combination of valves shall achieve the desired damping characteristics that are ideal for the application.

Meritor EX-225 H, 17" disc brakes shall be provided for the front axle.

The front brakes shall be full air actuated with automatic, slack adjustment.

STEERING SYSTEM

QTY: 1

A dual power steering system shall be provided utilizing a Sheppard model #M110 main steering gear on the driver side of the chassis and a Sheppard model #M90 steering gear on the officer side of the chassis.

The power steering gear on the officer side of the chassis shall increase performance in turning the officer side wheel assembly, reducing loads and forces on the main gear and components.

The steering system shall be designed to maximize the turning capabilities of the front axle no matter the rating and tire size.

The use of a power assist cylinder on the officer side of the chassis is NOT ACCEPTABLE on front axles of this capacity.

The system shall be designed utilizing an engine driven hydraulic pump, with a maximum operating pressure of 2000 PSI.

Steering system components shall be mounted in accordance with the steering gear manufacturer's instructions.

STEERING COLUMN

QTY: 1

The steering column shall be a "Douglas Autotech" tilt and telescope column.

A lever mounted on the side of the column shall control the tilt and telescope features.

The steering shaft from the column to the miter box shall have a rubber boot to cover the shaft slip and a second rubber boot to seal the passage hole in the floor.

There shall be a ergonomically designed, self-canceling lever, that shall control the following functions:

- Left and right turn signals
- High beam activation
- Two speed with intermittent windshield wiper control
- Windshield washer control

18" STEERING WHEEL

QTY: 1

The steering wheel shall be a four (4) spoke, vinyl padded, minimum 18" diameter, with a center hub mounted horn button.

REAR AXLE

QTY: 1

Rear axle shall be a single, Meritor RS-23-186 with a capacity of 24,000 lbs.

(Minimum). Axle shall be a single reduction type and have a gear ratio as required.

Oil seals shall be provided as standard equipment.

REAR BRAKES

QTY: 1

Brakes shall be "S" Cam, 16-1/2" x 8 5/8" size, and shall be full air actuated with automatic, slack adjusters.

VEHICLE TOP SPEED_NFPA STATEMENT

QTY: 1

The rear axle/s (will/shall) be geared for a vehicle top speed in accordance with NFPA sections 4.15.2 and 4.15.3.

Units with GVWR over 26,000 pounds (will/shall) be limited to 68 mph. If the combined tank capacity is over 1250 gallons of foam and water or the GVWR is over 50,000 pounds, the vehicle top speed (will/shall) be limited to 60 mph or the fire service rating of the tires, whichever is lower.

REAR SUSPENSION

QTY: 1

A Hendrickson, "FIREMAAX" model #FMX-242, air ride suspension shall be provided for the single rear axle.

The suspension shall have a weight rating equal to the rear axle weight rating up to 24,000 pounds.

FRONT WHEELS

QTY: 1

The front wheels shall be 22.5" x 12.25" ten stud, hub piloted, polished aluminum disc type.

FRONT TIRES

QTY: 1

The front tires shall be Michelin 425/65R22.5, "20 Ply", tubeless, radial XZY3, wide base mixed tread.

The tires shall be fire service rated up to 24,396 lbs and shall have a top speed of 65 mph when inflated to 120 psi.

REAR WHEELS

QTY: 1

The single, rear axle wheels shall be 22.5" x 8.25" ten stud, hub piloted, polished aluminum disc type.

REAR TIRES

QTY: 1

The rear tires shall be Michelin 12R22.5, "16 Ply", tubeless, radial, X Works Z, traction tread.

The tires shall be fire service rated up to 29,020 lbs and shall have a top speed of 65 mph when inflated to 120 psi.

TIRE PRESSURE MONITORING

QTY: 1

Each tire shall be equipped with an LED tire alert pressure management system (Vecsafe equal) that shall monitor tire pressure. A chrome plated brass sensor shall be provided on the valve stem of each tire.

The sensor shall calibrate to the tire pressure when installed on the valve stem for pressures between 20 and 120 psi.

The sensor shall activate an integral battery operated LED when the pressure of that tire drops 8 psi.

AIR BRAKE SYSTEM

QTY: 1

A dual circuit, air operated braking system, meeting the design and performance requirements of FMVSS -121 and the operating test requirements of NFPA 1901 current edition shall be installed.

The air system shall provide a rapid air build-up feature and low-pressure protection valve with light and buzzer, designed to meet the requirements of NFPA 1901, current edition.

ABS SYSTEM

QTY: 1

An Anti-Skid Braking System (ABS) shall be provided to improve braking control and reduce stopping distance. This braking system shall be fitted to all of the axles. All electrical connections shall be environmentally sealed, water, weatherproof, and vibration resistant.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel shall transmit wheel speed data to an electronic processor which shall sense approaching wheel lock causing instant brake pressure modulation up to 5 times per second in order to prevent wheel lockup. Each wheel shall be individually controlled.

To improve service trouble shooting, provisions in the system for an optional diagnostic tester shall be provided. The system shall test itself each time the vehicle is started. A dash-mounted light shall go out once the vehicle has attained 4 mph after successful ABS start-up. A warning light shall signal malfunction to the operator. The system shall consist of a wheel mounted toothed ring, sensor, sensor clip, electronic control unit and solenoid control valve. The sensor clip shall hold the sensor in close proximity to the toothed ring.

The system shall also control application of the auxiliary engine exhaust or drive line brakes to prevent wheel lock.

AUTO TRACTION CONTROL

QTY: 1

To further improve vehicle drive characteristics the unit shall be fitted with automatic traction control (ATC). This system shall control drive wheel slip during acceleration from a resting point. An extra, solenoid valve shall be added to the ABS system.

The system shall control the engine and brakes to ensure efficient acceleration.

The system shall be equipped with a dash-mounted light that shall come on when ATC is controlling drive wheel slip.

The system shall also include an "off road traction" dash mounted switch that will allow the operator to momentarily allow for more wheel slip when the unit is in deep mud or snow.

AIR RESERVOIRS

QTY: 1

There shall be a minimum of three (3) air reservoirs installed in conformance with best automotive practices.

An additional 800 cu. in. air reservoir shall be provided for an air manifold.

Reservoir capacity total shall be a minimum of 5500 cubic inches.

A pressure protection valve shall be installed to prevent the use of air horns or other air operated devices should the air system pressure drop below 80 psi (552 kPa).

The air reservoirs shall be color coded to match the air lines for easy identification, maintenance, and troubleshooting.

The reservoirs shall be painted the following colors:

- Wet Tank Black
- Primary Tank Green
- Secondary Tank Blue
- Auxiliary Tank(s) Yellow.

AUTOMATIC MOISTURE EJECTOR - WET TANK

QTY: 1

There shall be a Haldex automatic moisture ejector provided on the the wet air tank.

1/4 TURN DRAIN VALVES SIDE OF BODY

QTY: 1

For ease of daily maintenance, each air system reservoir shall be equipped with a brass 1/4 turn drain valve.

The brass, quarter turn, air tank drains shall be remotely mounted to the side of the body on a labeled panel just forward of rear wheel for ease of maintenance.

HEATED AIR DRYER

QTY: 1

A Bendix AD-IS heated air dryer system shall be furnished. The function of the AD-IS dryer reservoir module (DRM) is to provide an integrated vehicle air dryer, secondary reservoir, purge reservoir, governor, and a number of the charging valve components in a module. The DRM dryer module includes an integrated solution air dryer (AD-IS), a reservoir including a separate purge reservoir section, a governor, and four pressure protection valves which have been designed as an integrated, air supply system.

The function of the AD-IS air dryer is to collect and remove air system contaminants in solid, liquid and vapor form before they enter the brake system. It provides clean, dry air to the components of the brake system which increases the life of the system and reduces maintenance costs. Daily, manual, draining of the reservoirs is eliminated. The function of the pressure protection valves is to both control the order in which the components receive air from the AD-IS air dryer, as well as to protect each reservoir from a pressure loss in the other reservoir or a pressure loss in an air accessory.

An automatic, moisture ejector on the primary or wet tank shall also be furnished.

COLOR CODED BRAKE LINES

QTY: 1

The entire chassis air system shall be plumbed utilizing reinforced, Synflex air lines, which shall be equipped with quick release type fittings.

All of the airlines shall be color coded to correspond with an air system schematic and shall be adequately protected from heat and chafing.

WABCO AIR COMPRESSOR

QTY: 1

Air compressor shall be a Wabco brand, with a minimum of 18.7 cubic feet per minute capacity on L9 X15 models and 25.9 cubic feet per minute on X12 models.

Air brake system shall be the quick build up type.

The air compressor discharge line shall be stainless steel braid reinforced Teflon hose.

The chassis air system shall meet NFPA 1901, latest edition for rapid air pressure build-up within sixty (60) seconds from a completely discharged air system.

This system shall provide sufficient air pressure so that the apparatus has no brake drag and is able to stop under the intended operating conditions following the sixty (60) seconds build-up time.

BRAKE TREADLE VALVE

QTY: 1

A Bendix dual brake treadle valve shall be mounted on the floor in front of the driver.

The brake control shall be positioned to provide unobstructed access and comfort for the driver.

PARKING BRAKE CONTROL

QTY: 1

Parking brake shall be of the spring-actuated type, mounted on the rear axle brake chambers.

The parking brake control shall be mounted on the driver lower wing panel.

A red, indicator light shall be provided in the driver dash panel that shall illuminate when the parking brake is applied.

ENGINE PACKAGE

QTY: 1

ENGINE

QTY: 1

Engine shall be a Cummins, Model X12 500, diesel, turbo-charged, per the following specifications.:

- Max. Horsepower 500 HP @ 1700 RPM
- Governed Speed 2000 RPM
- Peak Torque 1695 lb. ft. @ 1000 RPM
- Cylinders Six (6)
- Operating Cycles Four (4)
- Bore Stroke 5.2 x 5.67 in.
- Displacement 720 cu. in.
- Compression Ratio 16.8:1
- Governor Type Limiting Speed

Engine oil filters shall be engine manufacturers branded or approved equal.

Engine oil filters shall be accessible for ease of service and replacement.

ENGINE IQA CERTIFICATION - X12

QTY: 1

The Cummins X12 engine shall be certified by Cummins Power Systems for installation in the manufacturer's custom chassis.

SECONDARY BRAKING

QTY: 1

An engine compression brake shall be furnished for increased braking capabilities.

Controls shall be as provided by the engine manufacturer and shall be activated by releasing the throttle pedal to the idle position.

The engine compression brake shall have dash mounted control switches to turn the brake on or off as well as to control the operational level of the brake.

The engine brake shall be wired in such a manner so as to illuminate the chassis brake lights when the engine brake is engaged and operating.

The engine brake shall be interlocked with the PTO operation and shall automatically disengage any time the apparatus is operating with the PTO active.

ENGINE AIR CLEANER

QTY: 1

An engine air cleaner shall be provided. The air cleaner shall include a dry type element and shall be installed in accordance with the engine manufacturer's recommendations.

The air cleaner shall be located to the rear of the engine, with streamline air pipes and hump hose connections from the inlet to the air cleaner and from the air cleaner to the turbo.

The air cleaner shall be easily accessible when the cab is tilted.

The air cleaner shall be plumbed to the air intake system that shall include a self sealing connection between the cab and air cleaner assembly to allow the cab to be tilted.

To draw fresh clean air, the intake for the air cleaner shall be on the side of the cab on the driver's side.

The inlet shall be a minimum of 41" above the ground to allow the vehicle to navigate through water without any part of the air intake system being below the frame rail, preventing any type of water intake. There will be no exceptions.

EMBER SEPARATOR

QTY: 1

An ember separator shall be installed in the chassis air intake system.

The ember separator housing must be easily accessible when the cab is tilted.

ACCELERATOR PEDAL - FLOOR MOUNT

QTY: 1

A floor mount accelerator pedal shall be installed on the floor in front of the driver.

The pedal shall be positioned for comfort with ample space for fire boots and adequate clearance from the brake pedal control.

REMOTE THROTTLE & INTERLOCK HARNESS

QTY: 1

An apparatus interface wiring harness for the engine shall be supplied with the chassis. If applicable, separate circuits shall be included for pump controls, "Pump Engaged" and "OK to Pump" indicator lights, open compartment ground, start signal, park brake ground, ignition signal, master power, customer ignition, air horn solenoid switch, high idle switch and high idle indication light.

The engine ECM (Electronic Control Module) discreet wire remote throttle circuit shall be turned off for use with a J1939 based pump controller or when the discreet wire remote throttle controls are not required.

COOLING SYSTEM

QTY: 1

Radiator shall be brass with bolted steel top and bottom tanks. The cooling system shall be designed for a maximum of fifteen (15) PSI operation. There shall be a sight glass in the radiator to check the coolant level without removing the radiator cap. The core construction shall be tube and fin with three (3) tube rows, 273 total core tubes, and fourteen (14) fins per inch. Extended life engine coolant shall provide anti-freeze protection to -30° F. The mixture shall be per the engine manufacture's specifications. Core area be a minimum of 1375 square inches (39 H x 35.25W).

COOLING SYSTEM CRITERIA

QTY: 1

The engine cooling system shall be certified by the engine manufacturer to meet cooling index requirements for a minimum ambient temperature or 110-degrees Fahrenheit.

TRANSMISSION COOLER

QTY: 1

A shell and tube transmission oil cooler shall be provided using engine coolant to control the transmission oil temperature.

The cooler shall have an aluminum shell and copper tubes.

The cooler shall be assembled using pressed in rubber tube sheets to mechanically create a reliable seal between the coolant and the oil.

No brazed, soldered, or welded connections shall be used to separate the coolant from the oil.

RADIATOR CROSS MEMBER

QTY: 1

The radiator installation shall include a radiator cross member for additional strength and durability.

This cross member shall be designed so the angle of approach is not affected.

HEAVY DUTY RADIATOR SKID PLATE

QTY: 1

The radiator installation shall include a heavy-duty radiator skid plate to protect the radiator from debris or obstructions under the chassis.

The skid plate shall be designed so the angle of approach is not effected.

This skid plate design shall include wire cover wing plates for additional protection to wires and hoses on each side of the radiator assembly.

The skid plate shall be painted to match the chassis.

CHARGED AIR COOLER (FRONT MOUNT)

QTY: 1

The charge air cooler shall be constructed of aluminum with cast aluminum side tanks.

The cooler shall have a frontal core size of 957 square inches, seven (7) fins per inch, and forty eight (48) core tubes.

The charge air cooler shall be mounted directly ahead of the radiator and to the radiator headers.

Rubber isolators shall be used at the mounting points to reduce transmission of vibrations.

The connections between the engine and charged air cooler, shall be made using high temperature silicone hoses rated for use in temperature up to 500°F, and heavy duty constant tension T-Bolt spring hose clamps.

ENGINE FAN

QTY: 1

The engine cooling system shall incorporate a heavy-duty fan, installed on the engine and include a shroud.

The fan shall be equipped with an air-operated clutch fan, which shall activate at a pre-determined temperature range.

Recirculation shields shall be installed to ensure that air which has passed through the radiator is not drawn through it again.

COOLANT RECOVERY

QTY: 1

A coolant recovery system shall be provided and located near the battery box.

HEATER AND COOLANT HOSES/PIPING

QTY: 1

All coolant piping shall be powder coated steel tubing and formed hose barbs.

All engine enclosed connections between coolant pipes shall be made using silicone hoses rated from -60F to+500F.

The connections will use constant torque hose clamps. Continental Blue Xtreme blue heater hoses shall be furnished for the heater system.

HEATER AND COOLANT SHUT OFF VALVE

QTY: 1

A mechanical shut off valve shall be installed on the engine to shut down the flow of coolant to the cab heating system.

LOW COOLANT INDICATOR

QTY: 1

A low engine coolant indicator light located in the dash instrument panel shall be provided. An audible alarm shall be provided to warn of the low coolant condition.

TRANSMISSION

QTY: 1

An Allison World Transmission, Model 4000 EVS electronically controlled, automatic transmission shall be provided.

Transmission specifications shall be as follows:

- Max. Gross Input Power 600 HP
- Max. Gross Input Torque 1850 lb. ft.
- Input Speed (Range) 1700- 2300 RPM
- Direct Gear (Pumping) 4th (Lock-up)

Transmission installation shall be in accordance with the transmission manufacturer's specification.

The transmission shall be readily and easily removable for repairs or replacement.

One (1) PTO opening shall be provided on both the left and right side of the converter housing (positions one (1) o'clock and eight (8) o'clock).

SIX (6) SPEED AUTOMATIC TRANSMISSION - 4000 SERIES

QTY: 1

The transmission shall be calibrated for six (6) forward gears and one (1) reverse gear.

Each gear shall have the following ratios:

- First 3.51:1
- Second 1.91:1
- Third 1.43:1
- Fourth 1.00:1
- Fifth 0.74:1
- Sixth 0.64:1
- Reverse -4.80:1

ALLISON TRANSMISSIONS TOUCH PAD SHIFTER

QTY: 1

An illuminated, touch-pad type, shift control shall be mounted in the cab on the driver's lower wing panel.

Shift control shall be approved by the transmission manufacturer.

MODE BUTTON PROGRAMING

QTY: 1

The transmission, upon startup, shall select four (4) speed operation. By pressing the "mode" switch on the shift pad (mode on) provides access to the remaining forward gears in the transmission.

TRANSMISSION OIL LEVEL SENSOR

QTY: 1

The transmission shall be equipped with the oil level sensor (OLS); this sensor shall allow the operator to obtain an indication of the fluid level from the shift selector.

The sensor display shall provide the following checks, correct fluid level, low fluid level and high fluid level.

ALLISON PARK TO NEUTRAL

QTY: 1

The transmission, upon application of the parking brake, shall automatically shift into neutral.

ALLISON PRESELECT PROGRAMMING

QTY: 1

The transmission shall have Allison Pre select enabled to automatically downshift when the secondary engine brake is active.

PRESELECT PROGRAMMED FOR 4TH GEAR

QTY: 1

The transmission shall be programmed to automatically downshift to 4th gear.

This feature shall be enabled/disabled with the main on/off switch for the engine brake.

TES 295 SYNTHETIC TRANS FLUID 4000 EVS

QTY: 1

TES 295 transmission fluid shall be utilized to fill the 4000 EVS transmission.

TRANSMISSION LOCK-UP

QTY: 1

The automatic transmission furnished in the chassis shall have a lock-up assembly which brings the transmission to direct drive and prevents the transmission from shifting gears while in the pumping mode.

A positive braking system shall be provided to prevent vehicle movement during pumping operations.

The air brakes furnished must satisfy this requirement.

DRIVE LINES

QTY: 1

Drive lines shallbe Dana (Spicer) 1810 heavy duty series or equal, with "glide coat" splines on all slip shafts.

The manufacturer shall utilize an electronic type balancing machine to statically and dynamically balance all drive shafts.

The manufacturer shall provide proof of compliance with all drive shaft manufacturer's standards and specifications. {No Exceptions}

Where applicable, the universal joints shall be the half loop style joints.

DEF TANK

QTY: 1

A five (5) gallon diesel exhaust fluid (DEF) tank shall be provided and installed. The tank shall be mounted in the area of the battery box and shall be accessible through a door in the crew area step well.

The tank shall include an internal heater that will be fed by engine coolant directly from the engine block to ensure it is always kept at the proper temperature per EPA requirements. The tank shall include a temperature sensor to control the flow of the engine coolant from the heater valve to the DEF tank.

A DEF fluid level sensor shall be provided with the DEF tank and connected to the level gauge on the dashboard.

DIESEL EXHAUST FLUID LEVEL GAUGE

QTY: 1

Diesel Exhaust Fluid level (E-1/2-F); low fuel level warning @ 1/8 tank

EXHAUST SYSTEM

QTY: 1

The exhaust system shall be installed in accordance with the engine manufacturer's requirements and meet all Environmental Protection Agency and State noise level requirements.

Exhaust system components shall be securely mounted and easily removable.

The diesel particulate filter/muffler shall be fabricated from stainless steel and of a size compatible with the engine exhaust discharge.

Exhaust tubing shall be a minimum of 16 gauge stainless steel from the turbocharger on the engine to the inlet of the diesel particulate filter. Any flexible exhaust tubing shall be HDT stainless steel type.

To minimize heat build-up, exhaust tubing within the engine compartment shall be wrapped with an insulating material. Exhaust shall be wrapped from the turbocharger to the entrance of the muffler. Material shall be held in place with worm gear type clamps.

An exhaust diffuser shall be provided to reduce the temperature of the exhaust as it exits the tailpipe.

If the electrical system is hardwired or V-Mux multiplex, separate "regeneration" enable and prohibit switches shall be provided under the dash board on the driver's side. Each switch shall be provided with a spring loaded protective cover and shall be clearly marked as to function. If the electrical system is Class-1 ES-key, the regeneration switches shall be incorporated into the ultra-view screen.

The vehicle shall be equipped with SCR technology that uses a urea based diesel exhaust fluid (DEF) and a catalytic converter to significantly reduce oxides of nitrogen (NOx) emissions.

The SCR system shall reduce levels of NOx (oxides of nitrogen emitted from engines) by injecting small quantities of diesel exhaust fluid (DEF) into the exhaust upstream of a catalyst, where it vaporizes and decomposes to form ammonia and carbon dioxide.

TAILPIPE

QTY: 1

The exhaust tailpipe extending from the SCR catalyst to the side of the vehicle shall be constructed from 16-gauge stainless steel tubing.

The exhaust discharge shall be on the officer side of the apparatus forward of the rear axle.

FUEL TANK

QTY: 1

Fuel tank shall be a minimum of sixty-five (65) gallon capacity. It shall have a minimum, fuel filler neck of 2" ID and 1/4 turn fill cap. A 1/2" minimum diameter drain plug shall be provided. The tank shall be fabricated from hot rolled, pickled and oiled steel. Provisions for an additional feed line and fuel level float shall be provided for future use. The fuel tank shall be installed behind the rear wheels between the frame rails. The fuel tank shall meet all FHWA 393.67 requirements including a fill capacity of 95% of tank volume. The fuel tank shall be able to withstand a longitudinal acceleration of -23.0g at 0.166 seconds in accordance to SAE J211 standards using a channel frequency class 600 filter. Testing shall be performed at and verified by a third party testing and evaluation center.

STAINLESS STEEL FUEL TANK STRAPS

QTY: 1

The straps supporting the diesel fuel tank shall be made of Type 304L stainless steel with grade 8, zinc coated steel hardware.

There will be no exceptions.

FUEL TANK MOUNTING STRAP ISOLATION MATERIAL

QTY: 1

The fuel tank mounting straps shall utilize dense rubber between the straps and the fuel tank to prevent chaffing.

FUEL LINES

QTY: 1

Fuel lines shall be an Aeroquip FC332 AQP Series fiber reinforced hose. The lines shall be sized to meet engine manufacture's requirements, and shall be carefully routed and secured along the inside of the frame rails.

DUAL FUEL LINE SHUT-OFF VALVES

QTY: 1

A fuel line shut-off valve shall be provided on both the inlet and outlet side of the primary fuel filter to allow for easy removal of the filter.

The valves shall be labeled "Fuel Shut-Off".

No reserve feature shall be included in the tank.

FUEL-WATER SEPARATOR

QTY: 1

A fuel filter/water separator shall be provided in the fuel system.

A "water in fuel" indicator shall be provided on the information center.

FUEL POCKET

QTY: 1

A fuel fill shall be provided in the driver and officer side rear wheel well areas.

A Signature 4 composite fuel pocket with a brushed stainless steel door shall be provided.

A tethered cap shall be provided as part of the assembly.

A label indicating "Ultra Low Sulfur Diesel Fuel Only" shall be provided adjacent to the fuel fill.

PUMPER BODY ELECTRICAL

QTY: 1

CHASSIS ELECTRICAL SYSTEM

QTY: 1

All electrical wiring in the chassis shall be GXL cross link insulated type. Wiring is to be color coded and include function codes every three (3) inches on both sides. Wiring harnesses shall be routed in protective, heat resistant loom, securely and neatly installed. Two (2) power distribution centers shall be provided in central locations for greater accessibility. The power distribution centers shall contain thermal automatic reset breakers, power control relays, flashers, diode modules, daytime driving light module, and engine and transmission data links. All breakers and relays shall have a capacity substantially greater than the expected load on the related circuit, thus ensuring long component life. Power distribution centers shall be composed of a system of interlocking plastic modules for ease in custom construction.

The power distribution centers are function oriented. The first is to control major truck function. The second shall control center to overhead switching and interior operations. Each module is single function coded and labeled to aid in troubleshooting. The centers will also have accessory breakers and relays for future installations. All harnesses and power distribution centers shall be electrically tested prior to installation to ensure the highest system reliability.

All external harness interfaces shall be of a triple seal type connection to ensure a proper connection. The cab/chassis and the chassis/body connection points shall be mounted in accessible locations. Complete chassis wiring schematics shall be supplied with the apparatus.

12 VOLT ELECTRICAL SYSTEM TESTING

QTY: 1

The apparatus low voltage electrical system shall be tested and certified by the manufacturer. The certification shall be provided with the apparatus. All tests shall be performed with the air temperature between 0°F and 100°F.

The following three (3) tests shall be performed in order. Before each test, the batteries shall be fully charged.

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for 10 minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test failure.

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

The total continuous electrical load shall be activated with the engine running up to the engine manufacturers governed speed. The test duration shall be a minimum of 2 hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded due to excessive battery discharge, as detected by the system, or a system voltage of fewer than 11.7 volts DC for a 12-volt system, for more than 120 seconds, shall be considered a test failure.

Following completion of the preceding tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm is activated.

The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of fewer than 11.7 volts shall be considered a test failure. The battery system shall then be able to restart the engine.

At the time of delivery, documentation shall be provided with the following information:

- Documentation of the electrical system performance test
- A written load analysis of the following;
- Nameplate rating of the alternator
- Alternator rating at idle while meeting the minimum continuous electrical load
- Each component load comprising the minimum continuous electrical load.
- Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load.

CHASSIS WIRING INSTALLATION

QTY: 1

The wiring harness contained on the chassis shall be designed to utilize wires of stranded copper or copper alloy of a gauge rated to carry 125% of maximum current for which the circuit is protected without exceeding 10% voltage drop across the circuit. Wiring shall be uniquely identified by color code or circuit function code, labeled at a minimum of every three (3) inches. The identification of the wiring shall be referenced on a wiring diagram. All wires conform to SAEJ1127 (Battery Cable), SAEJ1128 (Low Tension Primary Cable), SAEJ1560 (Low Tension Thin Wall Primary Cable).

The covering of harnesses shall be moisture resistant loom with a minimum rating of 289° Fahrenheit and a flammability rating of VW-1 as defined in UL62. The covering of jacketed cable shall have a minimum rating of 289° Fahrenheit.

All circuits shall conform to SAEJ2202. All circuits must be provided with low voltage over current protective devices.

All exposed electrical connections will be coated with "Z-Guard" to prevent corrosion.

DIRECT BATTERY GROUNDING STRAP

QTY: 1

Direct grounding straps shall be mounted to the following areas; frame to cab, frame to body and frame to pump enclosure.

All exposed electrical connections shall be coated with "Z-Guard 8000" to prevent corrosion.

EMI/RFI PROTECTION

QTY: 1

The apparatus shall incorporate the latest designs in the electrical system with state of the art components to insure that radiated and conducted electromagnetic interference (EMI) and radio frequency interference (RFI) emissions are suppressed at the source.

EMI/RFI susceptibility is controlled by utilizing components that are fully protected and wiring that utilizes shielding and loop back grounds where required. The apparatus shall be bonded through wire braided ground straps. Relays and solenoids that are suspect to generating spurious electromagnetic radiation are diode protected to prevent transient voltage spikes.

In order to fully prevent the radio frequency interference the purchaser may be requested to provide a listing of the type, power output, and frequencies of all radio and bio medical equipment that is proposed to be used on the apparatus.

SEQUENCER

QTY: 1

A sequencer shall be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation shall allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator.

Emergency light sequencing shall operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights shall be activated one by one at half second intervals. Sequenced emergency light switch indicators shall flash while waiting for activation.

When the emergency master switch is deactivated, the sequencer shall deactivate the warning light loads in the reverse order.

MULTIPLEX CONTROL PUMP SHIFT SWITCH - MULTIPLEX

QTY: 1

The pump shift control shall be a Mil Spec toggle switch with mechanical detents mounted in a fully backlit panel that shall have indicators for "Pump Engage" and "Ok To Pump".

The mode of the transfer case shall be controlled by remotely mounted air solenoids which shall be activated and monitored through the chassis control logic of the multiplex system.

MULTIPLEX ELECTRICAL SYSTEM

QTY: 1

A multiplex electrical management system shall be utilized on the chassis for all functions applicable.

The system shall consist of the following components:

A computer interface used to not only program the multiplex system but also serve as a factory direct gateway into the vehicle from any authorized service facility.

A Universal System Manager (USM), which acts as the main controlling component of the multiplexing system shall be provided and factory programmed to DOT, NFPA, SAE, the manufacturer and {Company} specifications. The programming shall be done by the manufacturer's engineering department.

The ES-Key system installation shall comply with SAE J551 requirements regarding Electromagnetic and Radio Frequency interference (EMI, RFI), as well as utilize components and wiring practices that insure the system is protected against corrosion, excessive temperatures, water, excessive physical, and vibration damage by any equipment installed on the vehicle at the time of delivery.

A series of Multiplexing Input/Output Modules shall be installed. The Input/Output modules shall permit the multiplexing system to reduce the amount of wiring and components used as compared to non-multiplexed apparatus. These modules shall vary in I/O configuration, be waterproof allowing installation outside of enclosed areas and shall possess individual output internal circuit protection. The modules shall also have three status indicators visible from a service persons vantage point that shall indicate the status of the module. In the event a load requires more than 7.5 AMPS of operating current, the module shall activate a simple relay circuit integral to any of the 3 dillblox assemblies installed in the cab.

Diagnostic software shall be provided to download data from the on board ES-KEY system. This software shall have the ability to view system input/output (I/O) information, and include a connection from a computer to the vehicle.

INTER-LOCK MODULE FOR MULTIPLEX SYSTEM

QTY: 1

A multiplex module, which is the interface between the multiplexing system and the pump system shall be provided.

This module shall serve as the interface between the operator, engine, transmission and pumping system.

The module shall be installed in the driver's side dash. There shall be a pump diagnostic view in the UltraView screen that shall indicate to service personnel the interlock state of the apparatus.

In the event of a multiplexing error involving pump operation, an override can be activated to ensure reliable pumping operations at ALL times.

The multiplex system shall be able to provide automatic and/or manual activation of engine "Fast Idle", to maintain adequate alternator output and thus, chassis voltage.

There will be no exceptions.

ALTERNATOR

QTY: 1

There shall be a Delco Remy Model 55SI, 430 amp brushless, serpentine belt, driven alternator.

The brushless design of the 55SI transfers magnetic fields between the rotor and stator air-gap without brushes.

The alternator installation shall be designed to provide maximum output at engine idle speed, by using Remote Sense in order to meet the minimum continuous electrical load of the apparatus as required.

The alternator shall carry a 3 Year/Unlimited Mile warranty.

BATTERIES

QTY: 1

Five (5) Exide #SX31XHD, anchor bonded maintenance free batteries shall be provided.

These batteries shall be wired in parallel to the master disconnect switch.

Each battery shall be rated at 950 CCA at 0 F and shall have a reserve capacity of 180 minutes.

Wiring for the batteries shall be 4/0 welding type, dual path starting cables per SAEJ541.

BATTERY STORAGE, STEEL

QTY: 1

Batteries shall be securely mounted in fixed 3/16" GR50 steel trays located on each side of the chassis frame.

Complete access shall be provided when the cab is fully tilted.

Batteries shall be mounted on non-corrosive matting material.

The battery tray shall be able to withstand a longitudinal acceleration of -46.5g at 0.246 seconds in accordance to SAE J211 standards using a channel frequency class 600 filter.

Testing shall be performed at and verified by a third party testing and evaluation center.

COLE HERSEE BATTERY JUMPER STUDS

QTY: 1

A set of Cole Hersee battery jumper studs, model #46210-02 (red) and #46210-03 (black) shall be provided to allow the battery system to be jump started or charged from an external source.

The studs shall be located on the bottom of the battery box on the driver's side of the chassis.

Each stud shall be equipped with both a rubber protector cap and a 2" square non-conductive plate to prevent accidental shorting.

BATTERY DISCONNECT SWITCH

QTY: 1

The chassis batteries shall be wired in parallel to a single 12 volt electrical system, controlled through a heavy duty master disconnect switch.

The master disconnect switch shall be located within easy access of the driver upon entering or exiting the cab.

SHORELINE INLET

QTY: 1

One (1) Kussmaul "Super" Auto Eject automatic, 120 volt, 20 amp shoreline disconnect shall be provided for the on board, 110 volt battery charging systems.

The disconnect shall be equipped with a NEMA 5-20 P male receptacle, which shall automatically eject the shoreline when the vehicle starter is energized.

The mating connector shall be included with the auto eject and shall be provided as loose equipment.

A label shall be provided indicating voltage and amperage ratings.

SHORELINE INLET COVER

QTY: 1

The Kussmaul auto-eject connection shall be equipped with a Red weatherproof cover.

SHORELINE INLET LOCATION

QTY: 1

The shoreline receptacle shall be located in the area directly adjacent to the driver's side cab door in a pre determined location by KME.

SHORELINE INLET LABEL

QTY: 1

A shoreline power receptacle information plate shall be permanently affixed at or near the power inlet. The plate shall indicate the following:

- Type of Line Voltage
- Current Rating in Amps Power Inlet Type (DC or AC).

BATTERY CHARGER

QTY: 1

A Kussmaul model # 445-5265-0, EV-40, fully automatic, battery charger shall be provided for maintaining the vehicle battery system.

The charger shall feature Smart circuitry to provide three stages of charging: bulk, absorption, and float.

The charger shall have a battery type selector switch that regulates the proper charge/float voltage.

In addition to the main battery output, the charger shall also have auxiliary, 15 amp, output terminal with a battery saver selector switch to power accessory loads.

Output current of the charger shall be 40 amperes @ 12 volt DC.

BATTERY CHARGER STATUS CENTER

QTY: 1

A Kussmaul # 091-194-IND deluxe status center with displays for battery condition, voltage, amperes, and output current shall be installed, adjacent to the 120 volt shoreline connection.

The status center shall be located near the shoreline disconnect receptacle unless otherwise specified.

BLUE SEA #4365 ACCESSORY PANEL

QTY: 1

A Blue Sea model 4365 accessory panel will be provided. The accessory panel shall include one (1) 12-volt power port, Two (2) dual USB charging ports, along with a power switch with built in circuit breaker.

The accessory panel shall be mounted in the center dash panel.

12 VOLT POWER PORTS IN REAR CREW AREA - IN REAR FA

QTY: 2

Two (2) 12 volt power port accessory outlets shall be installed in the cab of the truck for fire department accessory devices.

The ports shall be located in the rear crew area, one (1) in each rear facing seat base.

KUSSMAUL USB CHARGING PORTS IN REAR CREW AREA - IN

QTY: 2

Two (2) Kussmaul USB charging ports shall be installed in the cab of the truck for fire department accessory devices.

Each port shall have two (2) USB connections and shall have a 5 volt, 4.2 amp max output.

The ports shall be located in the rear crew area, one (1) in each rear facing seat base.

POWER AND GROUND STUD FOR ACCESSORIES IN DASH

QTY: 1

One (1) dedicated circuit; 12 volt, 40 Amp, power and ground on 3/8 stud and fused at battery shall be provided in the cab dash.

The circuit shall be for future installation of radios or accessories.

BLUE SEA FUSE BLOCK - 12 CIRCUIT BEHIND OFFICER SE

QTY: 1

A Blue Sea 5026B, 12 circuit fuse block, shall be installed behind the officers seat.

This block has a maximum amperage of 60 amps per block and 30 amps per circuit and shall be connected to battery power.

USB POWER POINT - REAR FACING SEATING AREA

QTY: 1

Two (2) Blue Sea 1045 power points with two (2) USB ports each shall be installed in the rear of the cab on the back of the engine enclosure in a housing designed to surface mount the power point.

One power point shall be installed on each side of the rear side of the engine enclosure near the rear facing seat base.

Each power point shall be rated for 4.8 amps total.

IGNITION STUD - REAR CREW AREA

QTY: 1

An ignition stud shall be installed in the rear crew area for items needing an ignition circuit (ie. mobile radio).

This stud has a maximum amperage of 20 Amps.

EMS COMPARTMENT POWER POINT DUAL

QTY: 1

The interior EMS compartments shall be equipped with a Blue Sea 5025 power point capable of 60 amps with power and ground connections conveniently positioned in the upper area inside the compartment, connected directly to the chassis batteries.

WHELEN 6" ROUND WHITE/RED LED INTERIOR LIGHTS (4)

QTY: 1

Four (4) Whelen # 60CREGCS, 6" round, interior LED combination red/white dome lights shall be furnished in the cab, with two (2) in the forward section and two (2) in the rear crew section.

Each dome light shall have individual switches to control the red or white LEDs.

Each dome light shall also activate when the respective, adjacent cab door is opened.

ENGINE COMPARTMENT WORK LIGHTS - TECNIQ LED

QTY: 1

Two (2) Tecniq model #E18 LED lights shall be provided inside the engine enclosure that will provide 800 lumens each.

Each light shall have their own independent switch incorporated into the light head.

DASH & CENTER CONSOLE - 100" PREDATOR SS

QTY: 1

Where standard features are controlled through physical switches they will be indicated as such in the appropriate part of this specification. All optional features that are controllable from the cab will be controllable through the display screen.

The dash consoles shall be custom formed overlaid aluminum housings to create an ergonomically designed interior that will be user friendly and functional for the driver and officer.

The cab instruments and controls will be labeled with international symbols and located in the following zones:

- **Driver Gauge Left:** Located to the left of the instrument panel, this zone houses the ignition, engine start, and fast idle switches.
- **Driver Gauge Right:** Located to the right of the instrument panel, this zone houses power take-off and ladder power switches when those features are specified.
- **Driver Knee Left:** Located at the driver's left knee area, this zone is the standard location for pump controls, and for the Engine Emergency Shut-Down when specified.
- **Driver Knee Right:** Located at the driver's right knee area, this zone houses optional chassis related switches such as the Fuel Priming Pump, Engine Fan Override, and ATC Disable.
- **Driver Lower Wing:** Located on the engine tunnel and angled toward the driver, this zone houses the majority of the controls that the driver may need to access while operating. Within the easiest reach of the driver are the park brake, transmission shift, Vehicle Information Display, and any optional retarder controls. Standard switching in this zone includes power window controls, hazard flasher, headlights, marker lights, and mirror adjustment. Also located in this zone will be switching for any optional features that are more likely to be used while driving such as auxiliary brakes, siren brake, drive axle locks, and automatic tire chains.
- **Center Lower:** Located on the engine tunnel between the driver and officer and parallel to the cab front, this zone houses the standard 12 volt sockets and USB chargers. It will also house any optional communications devices that are more likely to be accessed while driving such as an arrowhead controller or a stereo radio.
- **Driver Overhead:** Located in the overhead console directly above and facing the driver, this zone houses tactile switches (when specified) for control of emergency devices such as warning lights, scene lights, dump chute valves, and other emergency related items. If not specified these controls are available through the Vehicle Information Center.
- **Driver Overhead Wing:** Located in the overhead console and angled toward the driver, this zone houses the heating and air conditioning tactile switches provided as standard.
- **Center Overhead:** Located overhead between the driver and officer and parallel to the cab front, this zone houses any communications devices such as siren heads or two-way radios that cannot be fit in the Officer Lower Wing: Located on the engine tunnel and angled toward the officer, this zone houses optional feature switching as specified for control by the officer.
- **Officer Overhead Wing:** Located in the overhead console and angled toward the officer, this zone is houses optional switching or gauges that cannot be located in other zones and that is intended solely for use by the officer.

- **Officer Overhead:** Located in the overhead console directly above and facing the officer, this zone houses optional larger communications equipment that cannot be located in other zones, and that is practical for use solely by the officer.

Exact locations of each switch or control will be dictated by the Dash Layout document created during the design process and will adhere to these guidelines unless otherwise specified.

CAB DASH PANELS

QTY: 1

The apparatus cab shall be outfitted with backlit gradient dash and overhead panels. These gradient panels shall be utilized across the entire front of the cab dash and include the instrument cluster and brow panels. The panels shall be constructed from 3mm aluminum composite panels with second surface screen printed 15 mil Bayfol UV-1 polycarbonate graphic overlays, to provide scratch and UV protection. A carbon-graphite shaded graphic overlay shall be provided.

CONTROL SWITCHING THROUGH MULTIPLEX TOU

QTY: 1

Switching for the emergency and auxiliary systems shall be performed through the multiplex control screen.

Switching shall programmed through various menus that are accessible from the display buttons.

HOSE BED WORK LIGHT - SWITCH

QTY: 1

The hose bed work light shall have a protected 12-volt switch at the rear body panel.

The switch will be labeled "HOSE BED WORK LIGHTS."

CONTROL SWITCHES IN CAB FOR LIGHT ABOVE WINDSHIELD

QTY: 1

Controls shall be provided in the cab control system (or optional mechanical switch) to activate the HiViz, FireTech, LED brow light.

CONTROL SWITCHES IN CAB FOR BEHIND FRONT CAB DOOR

QTY: 1

Controls shall be provided in the cab control system (or option mechanical switch) to turn the lights at the cab doors on and off.

CONTROL SWITCH IN CAB FOR REAR OF BODY LIGHTS

QTY: 1

Controls shall be provided in the cab control system (or optional mechanical switch) to turn the rear of body lights on and off.

CONTROL SWITCH IN CAB FOR DRIVER SIDE OF BODY LIGH

QTY: 1

Controls shall be provided in the cab control system (or optional mechanical switch) to turn the driver side of body lights on and off.

CONTROL SWITCH ON PUMP PANEL FOR DRIVER SIDE OF BO

QTY: 1

A switch shall be provided on the pump panel to turn the driver side of body lights on and off.

CONTROL SWITCH IN CAB FOR OFFICER SIDE OF BODY LIG

QTY: 1

Controls shall be provided in the cab control system (or optional mechanical switch) to turn the officer side of body lights on and off.

CONTROL SWITCH ON PUMP PANEL FOR OFFICER SIDE OF B

QTY: 1

A switch shall be provided on the pump panel to turn the officer side of body lights on and off.

DRIVER'S DASHBOARD PANEL, 100" PREDATOR SS

QTY: 1

The main instrument panel shall be centered in front of the driver and shall be mechanically fastened to the main dash assembly. The panel shall contain the primary gauges, an instrument warning light cluster and the ignition and engine start switches.

Each gauge shall be designed with an integral red warning light with a pre-programmed warning point. Gauges monitoring drive-train component status shall be of the direct data bus type capable of displaying information broadcast on the J 1939 data-link.

Each gauge warning indicator shall be capable of activating an audible alarm inside the dashboard.

Additional auxiliary control switches and instruments (if applicable) shall be located within the center or overhead panel located near the driver's position.

DRIVER DASH LCD VIRTUAL DISPLAY

QTY: 1

The main instrument panel shall be centered in front of the driver and shall have a hinged bottom with two ¼ turn latches at the top. The driver panel and all other cab interior dash and overhead panels will be an anti-glare surface.
Contained within this panel will be virtual driver display via a 12.3" LCD screen including but not limited to displaying all gauges and instrument warning light cluster functions The upper left side of the driver dash panel shall also include an ignition-on switch, fast idle switch and a round engine start button which shall include a lighted indicator on the perimeter to light up when engine is ready to start and turning off when the engine is started.
The driver LCD virtual display shall include:

- 12.3" Color TFT Display
- Stand Alone Architecture
- Automatic Adjustment for Light Conditions
- 3 x BNC Analog Video Input
- Fully Programmable Features w/Graphical HMI:CGI Studio
- Two Year Warranty

The primary gauge display shall consist of:

- Vehicle speedometer, (0-80 mph)
- Engine tachometer, (0-3000 rpm)
- Engine oil pressure, (0-100 psi); low oil warning
- Engine coolant temperature (100-250 °F); high engine temp warning
- Transmission oil temperature (100-350 °F); high transmission fluid temp warning
- Vehicle battery voltage (0-18 VDC); low voltage warning
- Front air system gauge (0-150 psi); low air pressure warning at 65 psi
- Rear air system gauge (0-150 psi); low air pressure warning at 65 psi
- Fuel level (E - 1/2 - F); low fuel level warning
- Diesel Exhaust Fluid (DEF) Level (E-1/2-F)
- Air cleaner restriction gauge (0-40), warning at 25"

- Engine hours as maintained by the engine ECU

Additional auxiliary control switches and instruments (if applicable) shall be located within the dash panel and overhead panel located near the driver's position.

INDICATOR CLUSTER

This display, also contained in the Driver Dash Virtual Display Module, includes the system control unit that collects data from the vehicle data bus (J1939), analog sensors, and switches throughout the vehicle. This data shall be presented using simulated gauges and telltales.

On the Road displays include:

- Odometer, trip information, fuel economy information; all gauge data, and virtually any other data available on the vehicle that the display has access to, either through the data bus or via analog inputs.

The displays that can be accessed when the parking brake is set include:

- "Right And Left Directional" arrows (green in color)
- "Hi Beam" indicator (blue in color)
- "Battery ON" indicator (green in color)
- "Parking Brake ON" indicator (red in color)
- "Check Transmission" indicator (amber in color)
- "Cab Not Latched" indicator (red in color)
- "Stop Engine" indicator (red in color)
- "Check Engine" indicator (amber in color)
- "ABS Warning" indicator (yellow in color)
- "Low Coolant Level" (yellow in color)
- "Water In Fuel" indicator (amber in color)
- "DPF Regeneration" (amber in color)
- "Exhaust High Temperature" (amber in color)
- "Engine Diagnostic Fault" (amber in color)
- "Retarder On" (green in color)

Listed below are indicators that may be included, depending upon the vehicle configuration:

- "Wait To Start" indicator (amber in color)
- "Exhaust System Fault" (amber in color)
- "Topps System Fault" (amber in color)
- "PTO Engaged" (green in color)
- "Ok to Pump" (green in color)
- "Auto Traction Control" (amber in color)

FAST IDLE

QTY: 1

A fast idle for the electronic controlled engine shall be provided.

The fast idle shall be controlled by an ON/OFF switch on the left side of the main gauge panel.

An electronic interlock system shall prevent the fast idle from operating unless the transmission is in "Neutral" and the parking brake is fully engaged.

If the fast idle control is used in conjunction with a specified engine/transmission driven component or accessory, the fast idle control shall be properly interlocked with the engagement of the specified component or accessory.

ENGINE COMPRESSION BRAKE CONTROLS

QTY: 1

Engine brake controls shall be provided on the dash within easy reach of the driver.

CLASS-1 ES-KEY ULTRAVIEW 780 DISPLAY

QTY: 1

A 7 inch full color display shall located on the driver's lower wing panel. The display shall provide key information and control within easy sight and reach.

The screen shall be programmed with the following features:

- Chassis Instrument Display
- Back-up camera
- Seat Occupant Display
- Compartment open display
- HVAC Controls
- Power Mirror Controls
- DPF Filter Regeneration Controls
- Warning light controls
- Scene light controls
- Horn selector switch options
- Gauge back-light dimming
- Rocker switch back-light dimming
- Display screen dimming with day/night feature
- Multiplex system diagnostics
- Generator Controls

PUMP SHIFT CONTROL

QTY: 1

The pump shift control and pump engaged indicator light shall be mounted in the driver's lower left knee panel.

CAMERA SYSTEM

QTY: 1

An ASA Voyager rear vision camera model # VCMS155 shall be provided to allow the driver to visually see the rear of the apparatus while in the cab.
The rear vision camera shall be mounted on the rear of the apparatus and shall be wired to automatically activate when the chassis transmission is placed in reverse.

CAMERA SYSTEM

QTY: 1

One (1) formed aluminum diamond plate shield shall be provided and mounted over the rear view camera to protect it from being damaged.

CAMERA SYSTEM

QTY: 1

The video output from the camera(s) shall be displayed on the Ultraview, display panel.

CUST PUMP/TANK/RES CHASSIS LED MARKER LIGHTS

QTY: 1

DOT MARKER LIGHTS AND REFLECTORS

CAB STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES

QTY: 4

Polished, stainless steel, TecNiq Eon, 3-LED, horizontal surface mounted chassis step lights shall be provided and controlled with marker light actuation.

Step lights shall be located to properly illuminate all chassis access steps and walkway areas and shall include a mounting gasket to provide a watertight seal.

DUAL MODULE W/ WHELEN M6 LED TURN SIGNAL & REQ WAR

QTY: 1

Two (2) Whelen M6T, arrow shaped, amber LED turn signals shall be provided, one (1) in each side of the dual light module above the headlights.

The NFPA required, Zone "A" lower warning lights shall be incorporated into each side, dual light module noted above.

ALTERNATE FLASHING HEADLIGHT SYSTEM (WIG-WAGS)

QTY: 1

An alternating flashing wig-wag system, wired to the apparatus headlights, shall be installed.

The wig-wag system shall be individually switched at the master light console.

The alternating flashing system shall be automatically disabled during the "Blocking Right of Way" mode.

DUAL HEADLIGHTS LED FIRETECH HIVIZ

QTY: 1

Two (2) dual, Firetech HiViz LED headlight modules with a bright finish bezel shall be furnished, one (1) each side, on the front of the cab. Each head light module shall incorporate an individual LED low beam and a LED high beam headlight. High beam actuation shall be controlled on the turn signal lever.

DAYTIME RUNNING LIGHTS

QTY: 1

The chassis head lights shall have integrated circuitry to actuate the low beam headlights.whenever the chassis engine is running.

The daytime running lights shall be interlocked with the parking brake.

FRONT BROW LIGHT

QTY: 1

One (1) HiViz LEDs "FireTech" Scene light, model FT-B-72-ML-W shall be provided.

The light instrument shall be low in profile with a mounting bracket allowing installation at the top edge of the windshield.

The housing shall be made of a extruded 6061 aluminum; 72" wide and less than 3" tall.

The scene light shall have 57 LEDs divided amongst 3 independent circuits; circuit one featuring 9x 5w LEDs passing light through a 10 degree optic, circuit two featuring 18x 5w LEDs passing light through a 25-40 degree "flood" range, and circuit three featuring 30x 5w LEDs passing light through a 60-90 degree "scene" optic.

Circuit four shall consist of 5 amber colored diodes that act as SAE-J2042 compliant clearance marker and identification lamps.

The circuitry shall feature a PWM LED driver with an onboard electronic thermal manager. Additionally, the bar shall meet CISPR25 EMI requirements.

The light shall operate on 12v DC, generate 28,101 lumens and draw 24 amps. The light shall be adjustable vertically up to 15 degrees.

Mounting shall be possible in any direction while still meeting NFPA 1901 compliance requirements. The housing color shall be White.

WIRE UPGRADE FOR 12V HIGH AMP LIGHT - (1) BROW LIG

QTY: 1

NFPA COMPLIANT WARNING LIGHT PACKAGE

QTY: 1

The following warning light package shall include all of the minimum warning light and actuation requirements for the current revision of the NFPA 1901 Fire Apparatus Standard.

The lighting as specified shall meet the requirements for both "Clearing Right of Way" and "Blocking Right of Way" which includes disabling all white warning lights when the apparatus is in "Blocking Right of Way" mode.

WARNING LIGHT FLASH PATTERN - NFPA FLASH PATTERN

QTY: 1

All of the perimeter warning lights shall be set to a default NFPA compliant flash pattern as provided by the light manufacturer.

LIGHT PACKAGE ACTUATION/CONTROLS

QTY: 1

The entire warning light package shall be actuated with a single warning light switch located on the cab switch panel. The wiring for the warning light package shall engage all of the lights required for "Clearing Right of Way" mode when the vehicle parking brake is not engaged. An automatic control system shall be provided to switch the warning lights to the "Blocking Right of Way" mode when the vehicle parking brake is engaged.

LIGHT PACKAGE NFPA CERTIFICATION

QTY: 1

The warning light system(s) specified above shall not exceed a combined total amperage draw of 45 AMPS with all lights activated in either the "Clearing Right of Way" or the "Blocking Right of Way"

The warning light system(s) shall be certified by the light system manufacturer(s), to meet all of the requirements in the current revision of the NFPA 1901 Fire Apparatus Standard as noted in the General Requirements section of these specifications.

The NFPA required "Certificate of Compliance" shall be provided with the completed apparatus.

Any large truck as defined by NFPA shall have the lower zone warning lights mounted no higher than 62" to the optical center of the warning light from ground level. {No Exceptions}

LIGHTS BAR

QTY: 1

A Whelen # F4N1QLED "Freedom Series IV", 81" cab roof warning light bar shall be furnished and rigidly mounted on top of the cab roof.

The light bar shall be equipped with the following:

- Clear Lenses
- Two Front Corner Red Linear LEDs
- Twelve Red Forward Facing Linear LEDs
- Two White Forward Facing Linear LEDs
- Two Red End Linear LEDs.

If equipped, the forward facing white lights shall be automatically disabled for the "Blocking Right of Way" mode.

ZONE A WARNING LIGHTS - STEADY BURN IN LIGHTBAR

QTY: 1

C-UPPER, WHELEN M9 SUPER LEDS

QTY: 1

Two (2) Whelen, M9* super LED light heads shall be furnished and mounted one (1) on each side on the upper rear face of the body, facing rear.

UPPER ZONE C WARNING LIGHT LENS - RED

QTY: 1

The upper zone C warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

UPPER ZONE C WARNING LIGHT BEZEL - CHROME

QTY: 1

The upper zone C warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

B/D-UPPER FRONT, COVERED BY LIGHTS IN ZONE A-UPPER

QTY: 1

The lighting requirement for this area is covered by the lights noted in Zone "A" - Upper.

B/D-UPPER REAR, WHELEN M9 SUPER LEDS

QTY: 1

Two (2) Whelen, M9*, super LED light heads shall be furnished and mounted one (1) on each side on the upper side face, towards the rear of the body, facing to each side of the unit.

The lights shall be installed with a chrome plated mounting flange.

UPPER ZONE B/D REAR WARNING LIGHT LENS - RED

QTY: 1

The upper zone B/D rear warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

UPPER ZONE B/D REAR WARNING LIGHT BEZEL - CHROME

QTY: 1

The upper zone B/D rear warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

A-LOWER FRONT MOUNTING, CUSTOM CHASSIS

QTY: 1

The lower Zone A warning lights shall be mounted in the custom chassis headlight bezels.

A-LOWER FRONT, WHELEN M6 SUPER LEDS

QTY: 1

Two (2) Whelen, M6* super LED light heads shall be provided and installed one (1) each side.

LOWER ZONE A WARNING LIGHT LENS - RED

QTY: 1

The lower zone A warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

LOWER ZONE A WARNING LIGHT BEZEL - CHROME

QTY: 1

The lower zone A warning lights shall include red leds and a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

C-LOWER REAR, WHELEN M6 SUPER LEDS

QTY: 1

Two (2) Whelen M6* super LED light heads shall be provided and installed with one (1) on each side directly below the DOT stop, tail, turn and backup lights.

LOWER ZONE C WARNING LIGHT LENS - RED

QTY: 1

The lower zone C warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

B/D-LOWER FRONT MOUNTING, CUSTOM CHASSIS

QTY: 1

The lower Zone B D warning lights shall be mounted on the sides of the custom chassis front bumper.

B/D-LOWER FRONT, WHELEN M6 SUPER LEDS

QTY: 1

Two (2) Whelen, M6* super LED light heads shall be provided and installed with one (1) on each side.

LOWER ZONE B/D FRONT WARNING LIGHT LENS - RED

QTY: 1

The lower zone B/D front warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

LOWER ZONE B/D FRONT WARNING LIGHT BEZEL - CHROME

QTY: 1

The lower zone B/D front warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

B/D-LOWER MID, WHELEN M6 SUPER LEDS

QTY: 1

Two (2) Whelen M6* super LED light heads shall be provided and installed with one (1) on each side.

LOWER ZONE B/D MID WARNING LIGHT LENS - RED

QTY: 1

The lower zone B/D mid warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

LOWER ZONE B/D MID WARNING LIGHT BEZEL - CHROME

QTY: 1

The lower zone B/D mid warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

B/D-LOWER REAR, WHELEN M6 SUPER LEDS

QTY: 1

Two (2) Whelen M6* super LED light heads shall be provided and installed with one (1) on each side.

LOWER ZONE B/D REAR WARNING LIGHT LENS - RED

QTY: 1

The lower zone B/D rear warning lights shall include red LEDs and a red lens if available from the manufacturer. If a red lens is unavailable, a clear lens shall be included.

LOWER ZONE B/D REAR WARNING LIGHT BEZEL - CHROME

QTY: 1

The lower zone B/D rear warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

GROUND LIGHTS

QTY: 1

One (1) TecNiq LED, 6" long ground light with stainless steel mounting bracket, shall be provided under each side cab door entrance step, four (4) total.

The ground lights shall turn on automatically with each respective door jamb switch and also by a master ground light switch in the warning light switch console.

Each light shall illuminate an area at a minimum 30" outward from the edge of the vehicle.

GROUND LIGHTS BELOW PUMP PANEL RUNNING BOARD

QTY: 1

One (1) TecNiq LED, 6" long ground light with stainless steel mounting bracket, shall be provided under each side pump panel running board, two (2) total.

GROUND LIGHTS REAR BODY CORNERS

QTY: 1

One (1) TecNiq LED, 6" long ground light with stainless steel mounting bracket, shall be provided under each rear body corner, two (2) total.

CAB AND BODY GROUND LIGHTS ACTIVATE WITH PARK

QTY: 1

The cab and body ground lights shall activate by engaging the parking brake.

CAB AND BODY GROUND LIGHTS ACTIVATE WITH MASTER SW

QTY: 1

The ground lights shall be activated by a master ground light switch in the cab and shall be wired through the load management system.

CHASSIS DIAGNOSTICS SYSTEM

QTY: 1

Diagnostic ports shall be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel shall allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches shall allow engine and ABS systems to provide blink codes should a problem exist.

The diagnostic system shall include the following:

- A single port to monitor the engine, transmission and ABS system and diagnostics of the roll sensor (if applicable)
- Engine diagnostic switch (blink codes)
- ABS diagnostic switch (blink codes)
- Allison Transmission Codes (through touch pad shifter)

VOLTAGE MONITORING SYSTEM - 12 VOLT

QTY: 1

A voltage monitoring system shall be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system shall provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm shall activate if the system falls below 11.8 volts DC for more than two (2) minutes.

INDICATOR LIGHT AND ALARM PROVE-OUT SYSTEM

QTY: 1

A system shall be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

ELECTRICAL HARNESS INSTALLATION - 12 VOLT

QTY: 1

To ensure dependability, all 12-volt wiring harnesses installed by the manufacturer shall conform to the following specifications:

- SAE J 1128 - Low tension primary cable
- SAE J 1292 - Automobile, truck, truck-tractor, trailer and motor coach wiring
- SAE J 163 - Low tension wiring and cable terminals and splice clips
- SAE J 2202 - Heavy duty wiring systems for on-highway trucks
- NFPA 1901 - Standard for automotive fire apparatus
- FMVSS 302 - Flammability of interior materials for passenger cars, multipurpose passenger vehicles, trucks and buses
- SAE J 1939 - Serial communications protocol
- SAE J 2030 - Heavy-duty electrical connector performance standard
- SAE J 2223 - Connections for on board vehicle electrical wiring harnesses
- NEC - National Electrical Code
- SAE J 561 - Electrical terminals - Eyelet and spade type
- SAE J 928 - Electrical terminals - Pin and receptacle type A.

For increased reliability and harness integrity, harnesses shall be routed throughout the cab and chassis in a manner which allows the harnessing to be laid into its mounting location. Routing of harnessing which requires pulling of wires through tubes is never allowed at the manufacturer.

Wiring shall be run in loom or conduit where exposed, and have grommets or other edge protection where wires pass through metal. Wire colors shall be integral to each wire insulator and run the entire length of each wire. Harnessing containing multiple wires and uses a single wire color for all wires shall not be allowed. Function and number codes shall be continuously imprinted on all wiring harness conductors at 3.00" intervals. All wiring installed between the cab and into doors shall be protected by a wire conduit to protect the wiring. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment shall be installed utilizing the following guidelines:

- All holes made in the roof shall be caulked with silicon. {No Exceptions} Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.
- For low cost of ownership, electrical components designed to be removed for maintenance shall be quickly accessible. For ease of use, a coil of wire shall be provided behind the appliance to allow them to be pulled away from the mounting area for inspection and service work.
- Corrosion preventative compound shall be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation of the plug.
- Any lights containing non-waterproof sockets in a weather-exposed area shall have corrosion preventative compound added to the socket terminal area.
- All electrical terminals in exposed areas shall have protective coating applied completely over the metal portion of the terminal.
- Rubber coated metal clamps shall be used to support wire harnessing and battery cables routed along the chassis frame rails.
- Heat shields shall be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust shall be protected by a heat shield.
- Cab and crew cab harnessing shall not be routed through enclosed metal tubing. Dedicated wire routing channels shall be used to protect harnessing therefore improving the overall integrity of the vehicle electrical system. The design of the cab shall allow for easy routing of additional wiring and easy access to existing wiring.
- All standard wiring entering or exiting the cab shall be routed through sealed bulkhead connectors to protect against water intrusion into the cab.

All 12-volt battery cables and battery cable harnessing installed by the apparatus manufacturer shall conform to the following requirements:

- SAE J 1127 - Battery Cable
- SAE J 561 - Electrical terminals, eyelets and spade type
- SAE J 562 - Nonmetallic loom
- SAE J 836 A - Automotive metallurgical joining
- SAE J 1292 - Automotive truck, truck-tractor, trailer and motor coach wiring
- NFPA 1901 - Standard for automotive fire apparatus.

Battery cables and battery cable harnessing shall be installed utilizing the following guidelines:

- Splices shall not be allowed on battery cables or battery cable harnesses.
- For ease of identification and simplified use, battery cables shall be color coded. All positive battery cables shall be marked red in color. All negative battery cables shall be black in color.
- For ease of identification, all positive battery cable isolated studs throughout the cab and chassis shall be red in color.
- For increased reliability and reduced maintenance, all electrical buss bars located on the exterior of the apparatus shall be coated to prevent corrosion.
- An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

BODY ELECTRICAL SYSTEM

QTY: 1

All electrical lines in the body shall be protected by automatic circuit breakers, conveniently located to permit ease of service.

Flashers, heavy solenoids and other major electrical controls shall be located in a central area near the circuit breakers.

All lines shall be color and function coded every 3", easy to identify, oversized for the intended loads and installed in accordance with a detailed diagram.

A complete wiring diagram shall be supplied with the apparatus.

Wiring shall be carefully protected from weather elements and snagging. Heavy duty loom shall be used for the entire length.

Grommets shall be utilized where wiring passes through panels.

In order to minimize the risk of heat damage, wires run in the engine compartment area shall be carefully installed and suitably protected by the installation of heat resistant shielded loom.

All electrical equipment shall be installed to conform to the latest federal standards as outlined in NFPA 1901.

BODY ELECTRICAL HARNESS - ES-KEY

QTY: 1

POWER DISTRIBUTION MODULES FOR CLASS ONE ES-KEY

QTY: 1

Class 1 Power distribution modules shall be provided in strategic areas of the chassis to allow body harnesses to interface to multiplex system.

The Remote Power Modules (RPM) provide a method of controlling loads on the vehicle, outside the cab, without running individual wires from each switch to the load.

This electronic module distributes and controls power to various devices on the vehicle as commanded by the control system inside the cab.

The RPM is connected to the Electrical System Controller via the J1939 datalink.

Each module receives power from a power cable, protected by a fusible link to the main battery circuit.

The power distribution modules shall be mounted in a location to provide complete access for service or trouble shooting.

BLUE SEA FUSE BLOCK IN BODY COMPARTMENT

QTY: 1

The Blue Sea fuse block(s) installed in the body shall have the power source connected directly to battery.

BLUE SEA FUSE BLOCK - 6 CIRCUIT REARWARD WALL R3

QTY: 1

A Blue Sea 5025B, 6 circuit fuse block, shall be installed on the upper rearward wall of the body R3 compartment interior.

This block has a maximum amperage of 60 Amps per block and 30 Amps per circuit.

DOOR OPEN INDICATOR W/ INTEGRAL AUDIBLE ALARM

QTY: 1

An indicator light with an audible alarm, shall be functionally located in the cab to signal when an unsafe condition is present such as an open cab door or body compartment door, an extended ladder rack, a deployed stabilizer, an extended light tower or any other device which is opened, extended or deployed which may cause damage to the apparatus if it is moved.

This light shall be activated through the parking brake switch to signal when the parking brake is released.

DUNNAGE AREA LIGHTING

QTY: 1

Two (2) stainless steel, TecNiq Eon 3-LED horizontal surface mounted lights shall be provided in the dunnage area to provide adequate illumination of this area.

These lights shall be switched in the same manner as the step lights.

COMPARTMENT LIGHT ACTIVATION

QTY: 1

Compartment lighting shall be switched either from an integral switch as provided by the roll up door manufacturer or a magnetic proximity switch if it is a KME manufactured door.

COMPARTMENT LIGHTS

QTY: 7

Each individual, equipment storage compartment shall be equipped with the AMDOR, Luma Bar, LED light fixture, mounted on each side of the forward (and rear) vertical door frame.

ROOF COMPARTMENT LIGHTS

QTY: 3

A Amdor Luma Bar LED strip compartment light(s) shall be provided, to ensure proper compartment illumination.

The lights shall be mounted underneath the roof compartment door opening and shall be activated with a magnetic door switch that shall be connected to the door ajar warning circuit.

CUST PUMP/TANK/RES BODY LED MARKER LIGHTS

QTY: 1

DOT MARKER LIGHTS FORWARD OF CAB DOOR

QTY: 1

Amber LED DOT marker lights with reflector shall be provided and mounted forward of the front cab door, one (1) each side.

MARKER/TURN LIGHTS @ EA SIDE OF BODY

QTY: 1

Red, LED marker lights with integral reflectors shall be provided at the lower side rear, having one (1) on each side.

Yellow, LED side marker and turn lights shall be provided on the apparatus lower side, forward of rear axle that puts one (1) on each side, if the apparatus is 30' long or longer.

DOT MARKER LIGHTS @ REAR OF BODY

QTY: 1

Red, LED clearance lights shall be provided on the apparatus rear upper having one (1) on each side at the outermost practical location.

Red, LED, 3-lamp identification bar will be provided on the apparatus rear center.

DOT AMBER REFLECTORS @ SIDE OF BODY

QTY: 1

Yellow reflectors shall be provided on the apparatus body lower side, as far forward and low as practical with one (1) on each side if the apparatus is 30' long or longer.

DOT RED REFLECTORS @ REAR OF BODY

QTY: 1

Red reflectors shall be provided on the apparatus rear with one (1) on each side at the outermost practical location.

TECNIQ #L10 LED LICENSE PLATE LIGHT

QTY: 1

One (1) Tecniq model #L10 LED license plate light shall be provided above the mounting position of the license plate. The license plate shall be located on the driver's side rear of body.

The light shall be clear in color and shall have a chrome finish.

WHELEN #M6 LED BRAKE, REVERSE, & TURN W/ QUAD HOUS

QTY: 1

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED red combination tail and stop lights, shall be mounted one each side at the rear of the body.

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED amber arrow turn signal lights, shall be mounted one each side, on a vertical plane with the tail/stop lights.

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED white back-up lights, shall be mounted, one each side on a vertical plane with the turn/tail/stop signals.

These lights shall activate when the transmission is placed in reverse gear.

Two (2) Whelen M6FCV4 mounting flanges, installed one (1) on each side, shall be provided to mount the lights described above in one common mounting flange.

The fourth opening shall be for the lower rear warning lights.

The lights shall be mounted in order, from top to bottom, as described above.

BODY STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES

QTY: 2

Polished, stainless steel, TecNiq Eon 3-LED, horizontal surface, mounted body step lights shall be provided and controlled with marker light actuation.

Step lights shall be located to properly illuminate all body access steps and walkway areas and shall include a mounting gasket to provide a watertight seal.

PUMP ENCLOSURE WORK LIGHTS - TECNIQ LED

QTY: 1

Two (2) Tecniq, model #E18 lights shall be provided inside the pump enclosure, providing 800 lumens each.

Each light shall have their own independent switch incorporated into the light head.

AMDOR LED STRIP HOSE BED LIGHTS-INSIDE HOSEBED DOO

QTY: 1

Two (2) Amdor, LED strip surface mounted lights shall be mounted on the hosebed doors one on each side to illuminate the hosebed floor.

HIVIZ GUARDIAN JUNIOR SCENE LIGHTS BEHIND CAB DOOR

QTY: 1

Two (2) Firetech Hiviz Guardian Junior FT-GSMJR, LED scene lights shall be provided, (1) one on each side of the cab, directly behind the front cab entrance door in a chrome plated flange.

Each light shall be 7.5 wide by 5 high by 1.5 deep, draw 3.33 amps, and produce 3,000 lumens.

The scene lights shall be wired through the load management system.

HIVIZ GUARDIAN ELITE SCENE LIGHTS ON REAR OF BODY

QTY: 1

Two (2) Firetech Hiviz Guardian Elite FT-GESM, LED scene lights shall be provided, (1) one on each side of the rear body panel in a chrome plated flange.

Each light shall be 11 wide by 9 high by 3 deep, draw 10 amps, and produce 10,491 lumens.

The scene lights shall be wired through the load management system.

HIVIZ GUARDIAN ELITE SCENE LIGHTS ON DS OF BODY

QTY: 1

Two (2) Firetech Hiviz Guardian Elite FT-GESM, LED scene lights shall be provided.

The scene lights shall be installed, one rearward and one forward, on the driver side of the body in a chrome plated flange.

Each light shall be 11 wide by 9 high by 3 deep, draw 10 amps, and produce 10,491 lumens.

The scene lights shall be wired through the load management system.

HIVIZ GUARDIAN ELITE SCENE LIGHTS ON OS OF BODY

QTY: 1

Two (2) Firetech Hiviz Guardian Elite FT-GESM, LED scene lights shall be provided.

The scene lights shall be installed, one rearward and one forward, on the officer side of the body in a chrome plated flange.

Each light shall be 11 wide by 9 high by 3 deep, draw 10 amps, and produce 10,491 lumens.

The scene lights shall be wired through the load management system.

REAR TRAFFIC WARNING LIGHT

QTY: 1

One (1) Whelen Dominator Plus "LED Traffic Advisor", model DPTA8A, 30.36" rear directional light shall be installed on the vertical rear surface of the body.

The light shall be equipped with eight (8) LED LINZ6 modules.

The directional light shall be activated by a TADCTL1 control module.

The control module shall be conveniently located near the driver's position.

The rear directional light shall be wired through the load management system of the unit.

TRAFFIC ADVISOR - RECESSED IN REAR STEP

QTY: 1

The traffic advisor will be recessed in the rear intermediate step.

DOT HORN

QTY: 1

A single electric horn activated by the steering wheel horn button shall be furnished.

BACK-UP ALARM

QTY: 1

A Preco # 1040, self adjusting 87 thru 112dBA back-up alarm, shall be provided and installed at the rear of the apparatus under the tailboard.

The back-up alarm shall activate and automatically adjust to ambient noise levels when the transmission is placed in reverse gear and the ignition is "on."

SINGLE CHROME AIR HORN

QTY: 1

A single, Hadley, chrome plated air horn shall be at the front of the vehicle.

The air horn shall be mounted in full compliance with NFPA-1901.

The supply line shall be a minimum of 1/4".

SINGLE AIR HORN

QTY: 1

The air horn shall be recessed in the officer side of the front bumper.

AIR HORN CONTROL

QTY: 1

The air horn(s) shall be controlled by the steering wheel horn button for the driver.

AIR HORN CONTROL

QTY: 1

The air horn(s) shall be controlled by a push button, located on the dash on the officer's side.

ELECTRONIC SIREN

QTY: 1

One (1) Whelen # 295HFS2, 100 watt electronic siren shall be provided featuring: flush mount remote control head recessed in center dash panel as space allows, "Si-Test" self diagnostic feature, six (6) function siren, radio repeat, and public address.

The electronic siren and speaker shall meet the NFPA required SAE certification to ensure compatibility between the siren and speaker.

SIREN CONTROL

QTY: 1

A floor mounted foot switch shall be provided for the driver to control the electronic siren.

WHELEN SA315P SPEAKER

QTY: 1

One (1) Whelen, model # SA315P composite black siren speaker, shall be provided, recessed in the front bumper and wired to the electronic siren.

POLISHED STEEL ELECTRONIC SIREN SPEAKER GRILL

QTY: 1

A custom electric siren speaker grill shall be provided. This grill shall include the KME company logo cut into the center.

MECHANICAL SIREN

QTY: 1

One (1) Federal Model #Q2B mechanical siren shall be provided to provide audible warning.

SIREN LOCATION

QTY: 1

The Q2B siren shall be semi-recessed into the bumper on the driver's side.

The siren shall be recessed so the front grille portion of the siren is exposed and protruding beyond the bumper.

ELECTRO/MECHANICAL SIREN BRAKE CONTROL

QTY: 1

A dash mounted push button switch shall be provided for the officer to control the brake on the electro/mechanical siren.

ELECTRO/MECHANICAL SIREN BRAKE CONTROL

QTY: 1

A dash mounted push button switch shall be provided for the driver to control the brake on the electro/mechanical siren.

ELECTRO/MECHANICAL SIREN CONTROL

QTY: 1

A floor mounted foot switch shall be provided for the driver to activate the electro/mechanical siren.

ELECTRO/MECHANICAL SIREN CONTROL

QTY: 1

A floor mounted foot switch shall be provided for the officer to activate the electro/mechanical siren.

WATEROUS CSU-C20-1500 SINGLE STAGE PUMP

QTY: 1

- WATEROUS CSU-C20
- 1500 G.P.M.
- SINGLE-STAGE

The pump shall be of single-stage construction and shall comply with all applicable requirements of the latest standards for automotive fire apparatus of the National Fire Protection Association, NFPA-1901 and shall have a rated capacity of 1500 gpm. The pump must deliver the percentage of rated capacity at the pressure listed below:

- 100% of rated capacity at 150 P.S.I. net pump pressure
- 100% of rated capacity at 165 P.S.I. net pump pressure
- 70% of rated capacity at 200 P.S.I. net pump pressure
- 50% of rated capacity at 250 P.S.I. net pump pressure.

The pump shall be free from objectionable pulsation and vibration under all normal operating conditions.

The pump body shall be close-grained gray iron and must be horizontally split in two sections for easy removal of the impeller shaft assembly, and designed for complete servicing from the bottom of the truck without disturbing setting of the pump in the chassis or apparatus piping which is connected to the pump. Pump body halves shall be bolted together on a single horizontal face to minimize chance of leakage and facilitate reassemble. Discharge manifold shall be cast as an integral part of the pump body assembly and shall provide at least three full 3-1/2 inch openings for ultimate flexibility in providing various discharge outlets for maximum efficiency, and shall be located as follows: one outlet on the right side of the pump body, one outlet on the left side of the pump body, and one outlet on top of the pump discharge manifold.

The Impeller shaft shall be heat-treated stainless steel, ground at all critical areas, and polished under the packing. An exclusive two-piece impeller shaft shall allow separation of the transmission from the pump without disassembling either component. This simplifies repair procedures, resulting in less down time.

The impeller shall be bronze, accurately balanced (mechanically and hydraulically), of mixed flow design with reverse flow labyrinth-type wear rings that resist water bypass and loss of efficiency due to wear. The impeller shall have flame plated hubs to assure maximum pump life and efficiency despite the presence of abrasive particles, such as fine sand, in the water being pumped. Wear rings shall be bronze, and shall be easily replaceable to restore original pump efficiency and eliminate the need for replacing the entire pump casing due to wear.

Three deep-groove, anti-friction ball bearings shall be located outside the pumping chamber, which shall give support and proper alignment to the impeller shaft assembly. The bearings shall be oil or grease lubricated, completely separated from the water being pumped, and shall be protected by seal housings, finger rings and oil seals.

PUMP RATIO

QTY: 1

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected.

The manufacturer shall supply at time of delivery copies of the pump manufacturer's certification of hydrostatic testing, the engine manufacturer's current certified brake horsepower curve.

PUMP MOUNTS - MID-SHIP PUMPS

QTY: 1

Extra heavy duty pump mounting brackets shall be furnished.

These shall be bolted to the frame rails in such a position to perfectly align the pump so that the angular velocity of the drive line joints shall be the same on each end of the drive shaft.

This shall assure full capacity performance with a minimum of vibration. Mounting hardware shall utilize Grade 8 bolts.

WATEROUS MECHANICAL PUMP SEAL

QTY: 1

Stuffing boxes shall be integral with the pump body and be equipped with self-adjusting, maintenance free mechanical shaft seals.

WATEROUS "C20" PUMP DRIVE UNIT

QTY: 1

The pump transmission shall be all aluminum "C20" model, rigidly attached to the pump body assembly and be of latest design incorporating a high strength involute tooth-form Hy-Vo chain drive.

The driven sprockets shall be capable of operating at high speeds to provide smooth, quiet transfer of power.

The shift engagement shall be accomplished by a free-sliding collar and shall incorporate an internal locking mechanism to insure that the collar shall be maintained in ROAD or PUMP position.

PUMP SHIFT MANUAL OVERRIDE

QTY: 1

An emergency manual pump shift control shall be furnished on the left side pump panel which may be utilized if the air shift control does not operate. A transmission, manual lock-up switch shall be furnished in the cab to ensure positive lock-up of the transmission.

WATEROUS PUMP SHIFT INDICATOR LIGHTS

QTY: 1

The pump shift assembly shall incorporate an indicating light system which shall warn the operator if the shift to PUMP has not been completed and indicate when it has been completed.

In accordance with NFPA 1901, a complete set of indicating lights is standard. These lights indicate when the shift has been complete to PUMP and OK TO PUMP.

WATEROUS ANODE BLOCKS - 2 TOTAL

QTY: 1

Two (2) Waterous zinc anode blocks shall be provided and located on the suction side of the pump to protect the pump from corrosion.

The Anodes shall be painted Safety Yellow for identification purposes.

WATEROUS PUMP OVERHEAT/THERMAL RELIEF SYSTEM

QTY: 1

A Waterous Overheat Protection Manager (OPM) shall be provided to serve as a safety device by releasing hot water from the discharge area of the pump to the ground.

The OPM consists of a valve that opens when the water in the pump reaches 140 F (60 C) and a warning light that is triggered by a thermal switch when the water in the pump reaches 180 F (82 C).

The warning light acts as an additional protection device if the temperature inside the pump keeps rising although the valve is open.

The OPM valve and switch are both mounted on two 1/2" tapped holes located near the center discharge area of the pump.

AUXILIARY ENGINE COOLER

QTY: 1

An auxiliary cooler or heat exchanger shall be installed in the engine compartment between the engine and the chassis radiator.

The cooler shall permit the use of water from the pump for cooling the engine.

The cooling shall be done without mixing engine and pump water.

FIRE RESEARCH "PUMP BOSS" PBA400 PRESSURE GOVERNOR

QTY: 1

The apparatus shall be equipped with a Fire Research PumpBoss model# PBA400 pressure governor and monitoring display kit. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 6 3/4" high by 4 5/8" wide by 1 1/2" deep. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 1 3/4" from the front of the control module. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring. Inputs to the control module from the pump discharge and intake pressure sensors shall be electrical. The following continuous displays shall be provided:

- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Check engine and stop engine warning LEDs * Oil pressure; shown on a dual color (green/red) LED bar graph display
- Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
- Transmission Temperature: shown on a dual color (green/red) LED bar graph display
- Battery voltage; shown on a dual color (green/red) LED bar graph display
- Pressure and RPM operating mode LEDs
- Pressure / RPM setting; shown on a dot matrix message display
- Throttle ready LED

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation. The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only)

The program features shall be accessed via push buttons located on the front of the control module. There shall be a USB port located at the rear of the control module to upload future firmware enhancements. The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready, LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle. The pressure governor and monitoring pressure display shall be programmed to interface with a specific engine.

AKRON STYLE #59 INTAKE RELIEF VALVE

QTY: 1

A 300 psi adjustable Akron Brass model 59 intake relief valve system shall be plumbed on the suction side of the pump to comply fully with NFPA-1901 requirements.

Excess pressures shall be plumbed to discharge water under the pump enclosure away from the pump operator.

TRIDENT "MANUAL" AIR PRIMING SYSTEM

QTY: 1

The priming pump will be a Trident air primer system.

A push in primer handle will open the priming valve and prime the pump.

ROTARY MASTER DRAIN VALVE

QTY: 1

A rotary type, 12 port, master drain valve shall be provided and controlled at the lower portion of the side pump panel.

The valve shall be located in pump compartment lower than the main body and connected in such a manner as to allow complete water drainage of the pump body and all required accessories.

Water shall be drained below the apparatus body and away from the pump operator.

DRAINS/BLEEDER "INNOVATIVE CONTROLS" LIFT UP @ ALL

QTY: 1

All lines shall drain through the master drain valve or shall be equipped with individual drain valves, easily accessible, and labeled.

One (1) individual "Innovative Control" lift up drain valve shall be furnished for each 1-1/2" or larger discharge port and each 2-1/2" gated auxiliary suction.

Drain/bleeder valves shall be located at the bottom of the side pump module panels. All drains and bleeders shall discharge below the running boards.

SYNFLEX SUCTION, DISCHARGE, PRESSURE AND CONTROL L

QTY: 1

Small lines within the pump enclosure shall be constructed from Synflex hose.

Uses include but are not limited to such lines as priming control, gauge lines, drain lines, air control valves, pump shift, supplemental cooling, foam flush, and air bleeder valves.

SUCTION INLETS - 6" INLETS

QTY: 1

Two (2) 6" N.S.T. suction inlets shall be provided, one on the driver side and one on the officer side pump panel.

A removable strainer shall be installed on each inlet.

SHORT NECK MAIN PUMP SUCTION INLETS

QTY: 1

The main pump suction inlets shall be furnished with a short suction end, terminating with only the suction threads protruding through the side panel to minimize the distance an exterior appliance protrudes beyond the pump panel.

BEHIND PANEL MOUNT

QTY: 1

All side gated inlet valves shall be recess mounted behind the side pump panels or body panels. There will be no exceptions.

6" NST INTAKE CAP - DS

QTY: 1

A 6" NST chrome plated long handle pressure vented cap shall be installed on driver side intake.

6" NST INTAKE CAP - OS

QTY: 1

A 6" NST chrome plated long handle pressure vented cap shall be installed on officer side intake.

2-1/2" DS AUX PRIMARY SUCTION INLET FORWARD OF MA

QTY: 1

One (1) 2-1/2" auxiliary suction shall be provided at the driver side pump panel, to the front of the main inlet.

The 2-1/2" auxiliary suction shall terminate with a removable strainer, chrome plated 2-1/2" NST female swivel with a chrome plated plug and retaining chain.

2-1/2" AKRON #8800 S.S. BALL VALVE, DS FRONT AUX S

QTY: 1

An Akron Brass 2 1/2" Generation II Swing-Out Valve shall be provided for the driver's side front auxiliary suction.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

SWING CONTROL @ VALVE, DS FRONT AUX SUCTION

QTY: 1

A 1/4 turn swing control handle shall be provided on the driver side, front auxiliary suction valve.

2-1/2" OS AUX SECONDARY SUCTION INLET REAR OF M

QTY: 1

One (1) 2-1/2" auxiliary suction shall be provided at the officer side pump panel, to the rear of the main inlet (if space and other components allow).

The 2-1/2" auxiliary suction shall terminate with a removable strainer, chrome plated 2-1/2" NST female swivel with a chrome plated plug and retaining chain.

2-1/2" AKRON #8800 S.S. BALL VALVE, OS AUX SUCTION

QTY: 1

An Akron Brass 2 1/2" Generation II Swing-Out Valve shall be provided for the officer's side auxiliary suction.

The valve shall have an all brass body with flow optimizing, stainless steel ball and dual polymer seats.

SWING CONTROL @ VALVE, OS AUX SUCTION

QTY: 1

A 1/4 turn swing control handle shall be provided on the officer side auxiliary suction valve.

TANK TO PUMP

QTY: 1

One (1) 4" tank to pump line shall be piped through the front bulkhead of the tank with a 90 degree elbow down into the tank sump.

This line shall be plumbed directly into the rear of the pump suction manifold for maximum efficiency.

A check valve shall be provided to prevent accidental pressurization of the water tank through the pump connection.

Connection from the valve to the tank shall be made by using a non-collapsible flexible rubber hose.

3" AKRON #8800 SERIES - S.S. BALL, VALVE , TANK TO

QTY: 1

An Akron Brass 3" Generation II Swing-Out Valve shall be provided between the pump suction manifold and the water tank.

The valve shall have an all brass body with flow optimizing, stainless steel ball and dual polymer seats.

3" PUSH/PULL CONTROL FOR TANK TO PUMP

QTY: 1

A push/pull control handle shall be located on the operator's panel with function plate.

TANK FILL LINE 2" FROM PUMP - SIDE MOUNT

QTY: 1

One (1) 2" gated full flow pump to tank refill line controlled at the pump panel shall be provided. A deflector shield inside the tank shall be furnished. Tank fill plumbing shall utilize 2" high pressure hose for tank connection to accommodate flexing between components. There will be no exceptions.

2" AKRON #8800 SERIES - S.S. BALL TANK FILL, SIDE

QTY: 1

An Akron Brass 2" Generation II Swing-Out Valve shall be provided between the pump discharge manifold and the water tank.

The valve shall have an all brass body with flow optimizing, stainless steel ball, and dual polymer seats.

PUSH/PULL CONTROL FOR TANK FILL

QTY: 1

A push/pull control handle shall be located on the operator's panel with function plate.

DS MAIN DISCHARGE #1

QTY: 1

A discharge shall be provided and located at the driver's side pump panel.

The driver's side discharges # 1 shall terminate with NST threads, through the left panel above the main pump intake.

The main pump discharge shall be plumbed directly from the pump discharge manifold utilizing direct connect discharge valve flanges.

2-1/2" AKRON #8800 SERIES - S.S. BALL, DS #1

QTY: 1

An Akron Brass 2 1/2" Generation II Swing-Out Valve shall be provided for the driver's side #1 discharge.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

DS #1 DISCH - 2-1/2" STRAIGHT NST & 30-DEGREE NST

QTY: 1

The discharge valve shall be equipped with a straight 2 1/2" NST adapter that shall be equipped with a 2 1/2" NST, 30-degree, chrome plated elbow.

2-1/2" NST PRESSURE VENTED CAP - DS DISCHARGE #1

QTY: 1

A 2 1/2 " NST, chrome plated pressure vented cap shall be installed on driver's side #1 discharge.

SWING 1/4 TURN CONTROL FOR DS DISCHARGE #1 -SIDE M

QTY: 1

The driver's side # 1 discharge valve shall be controlled by a 1/4 turn swing control handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GA - DS DISCH #1

QTY: 1

The driver's side # 1 discharge shall be equipped with a Class One, 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright, metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated, Class One gauge shall be White.

DS MAIN DISCHARGE #2

QTY: 1

A discharge shall be provided and located at the driver's side pump panel.

The driver's side discharges # 2 shall terminate with NST threads, through the left panel above the main pump intake.

The main pump discharge shall be plumbed directly from the pump discharge manifold utilizing direct connect discharge valve flanges.

2-1/2" AKRON #8800 SERIES - S.S. BALL, DS #2

QTY: 1

An Akron Brass 2 1/2" Generation II Swing-Out Valve shall be provided for the driver's side #2 discharge.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

DS #2 DISCH - 2-1/2" STRAIGHT NST & 30-DEGREE NST

QTY: 1

The discharge valve shall be equipped with a straight 2 1/2" NST adapter that shall be equipped with a 2 1/2" NST, 30-degree, chrome plated elbow.

2-1/2" NST PRESSURE VENTED CAP - DS DISCHARGE #2

QTY: 1

A 2 1/2" NST, chrome plated, pressure vented cap shall be installed on driver's side # 2 discharge.

SWING 1/4 TURN CONTROL FOR DS DISCHARGE #2 -SIDE M

QTY: 1

The driver's side # 2 discharge valve shall be controlled by a 1/4 turn swing control handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GA - DS DISCH #2

QTY: 1

The driver's side # 2 discharge shall be equipped with a Class One, 2 1/2" pressure gauge, which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated, Class One gauge shall be White.

OS MAIN DISCHARGE #1

QTY: 1

A discharge shall be provided and located at the officer's side pump panel.

The officer's side discharges #1 shall terminate with NST threads, through the officer's side panel above the main pump intake.

The main pump discharge shall be plumbed directly from the pump discharge manifold utilizing direct connect discharge valve flanges.

2-1/2" AKRON #8800 SERIES - S.S. BALL, OS #1, SIDE

QTY: 1

An Akron Brass, 2 1/2" Generation II, Swing-Out Valve shall be provided for the officer's side #1 discharge.

The valve shall have an all brass body with flow optimizing, stainless steel ball, and dual polymer seats.

OS #1 DISCH - 2-1/2" STRAIGHT NST & 30-DEGREE NST

QTY: 1

The discharge valve shall be equipped with a straight, 2 1/2" NST adapter that shall be equipped with a 2 1/2" NST, 30-degree, chrome plated elbow.

2-1/2" NST PRESSURE VENTED CAP - OS DISCHARGE #1

QTY: 1

A 2 1/2" NST, chrome plated, pressure vented cap shall be installed on officer's side # 1 discharge.

SWING 1/4 TURN CONTROL FOR OS DISCHARGE #1 -SIDE M

QTY: 1

The officer's side, # 1 discharge valve shall be controlled by a 1/4 turn, swing control handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GA - OS DISCH #1

QTY: 1

The officer's side, # 1 discharge shall be equipped with a Class One, 2 1/2" pressure gauge which shall contain a vibration dampened, internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated, Class One gauge shall be White.

OS MAIN DISCHARGE #2

QTY: 1

A discharge shall be provided and located at the officer's side pump panel.

The officer's side discharges #2 shall terminate with NST threads, through the officer's side panel above the main pump intake.

The main pump discharge shall be plumbed directly from the pump discharge manifold utilizing direct connect discharge valve flanges.

4" AKRON #8840 VALVE, OS #2, SIDE MOUNT

QTY: 1

An Akron Brass, 4" Heavy Duty, Swing-Out Valve shall be provided for the officer's side #2 discharge.

The valve shall have an all brass body with flow optimizing, flat ball, and dual polymer seats.

OS #2 DISCH - 4" STRAIGHT NST & 30-DEGREE NST ELBO

QTY: 1

The discharge valve shall be equipped with a straight, 4" NST adapter that shall be equipped with a 4" NST, 30-degree, chrome plated elbow.

4" NST PRESSURE VENTED CAP - OS DISCHARGE #2

QTY: 1

A 4" NST, chrome plated, pressure vented cap shall be installed on officer's side #2 discharge.

AKRON HANDWHEEL GEAR VALVE CONTROL, OS DISCHARGE #

QTY: 1

The officer's side, #2 discharge valve shall be gated with an Akron, Hand wheel controlled, inline valve.

The valve shall be controlled at the pump operator's panel with a chrome plated, hand wheel and mechanical valve position indicator.

CLASS ONE, LIGHTED, 2-1/2" PRESS GA - OS DISCH #2

QTY: 1

The officer's side, #2 discharge shall be equipped with a Class One, 2 1/2" pressure gauge which shall contain a vibration dampened, internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright, metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated, Class One gauge shall be White.

DS REAR DISCHARGE 2-1/2"

QTY: 1

A 2 1/2" NST rear discharge shall be provided at the rear of the vehicle, plumbed from the pump.

DS REAR DISCHARGE THROUGH TANK SLEEVE @ DS REAR BO

QTY: 1

The rear discharge shall be plumbed through a pipe sleeve integrated into the water tank that shall terminate on the rear body panel, on the driver side of the body.

2-1/2" NST MALE THREADS ON DS REAR DISCHARGE

QTY: 1

The discharge shall be equiped with a 30 degree droop terminating in 2-1/2" NSTM threads.

The driver side rear discharge pipe shall be furnished with 2-1/2" NSTM threads.

DS REAR DISCHARGE, PLUMBING, 2-1/2" STAINLESS STEE

QTY: 1

The driver side, rear discharge shall be plumbed utilizing 2 1/2" schedule 10 stainless steel piping, 45 degree elbows, and a limited number of 90 degree sweep elbows in an assembly from the pump to the rear of the vehicle.

A minimum of one (1) grooved, pipe coupling shall be furnished in this assembly to allow for flex and serviceability.

2-1/2" AKRON #8800 SERIES - S.S. BALL, VALVE DS RE

QTY: 1

An Akron Brass, 2 1/2" Generation II, Swing-Out Valve shall be provided for the driver's side rear discharge.

The valve shall have an all brass body with flow optimizing, stainless steel ball, and dual polymer seats.

PUSH/PULL CONTROL FOR DS REAR DISCHARGE

QTY: 1

The driver side rear discharge valve shall be controlled by a push/pull handle located on the operator's panel

2-1/2" NST DS REAR DISCHARGE PRESSURE VENTED CAP

QTY: 1

A 2 1/2" NST chrome plated pressure vented cap(s) shall be installed at the driver side rear discharge.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - DS REARDI

QTY: 1

The driver side rear discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated Class One gauge shall be White.

OS REAR DISCHARGE 2-1/2"

QTY: 1

A 2 1/2" NST rear discharge shall be provided at the rear of the vehicle, plumbed from the pump.

OS REAR DISCHARGE THROUGH TANK SLEEVE @ OS REAR BO

QTY: 1

The rear discharge shall be plumbed through a pipe sleeve integrated into the water tank that shall terminate on the rear body panel, on the officer side of the body.

2-1/2" NST MALE THREADS ON OS REAR DISCHARGE

QTY: 1

The discharge shall be equipped with a 30 degree droop terminating in 2-1/2" NSTM threads.

The officer side rear discharge pipe shall be furnished with 2-1/2" NSTM threads.

OS REAR DISCHARGE, PLUMBING, 2-1/2" STAINLESS STEE

QTY: 1

The officer side rear discharge shall be plumbed utilizing 2 1/2" schedule 10 stainless steel piping, 45 degree elbows and a limited number of 90 degree sweep elbows in an assembly from the pump to the rear of the vehicle.

A minimum of one (1) grooved pipe coupling shall be furnished in this assembly to allow for flex and serviceability.

2-1/2" AKRON #8800 SERIES - S.S. BALL, VALVE OS RE

QTY: 1

An Akron Brass 2 1/2" Generation II Swing-Out Valve shall be provided for the officer's side rear discharge.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

PUSH/PULL CONTROL FOR OS REAR DISCHARGE

QTY: 1

The officer side rear discharge valve shall be controlled by a push/pull handle located on the operator's panel.

2-1/2" NST OS REAR DISCHARGEPRESSURE VENTED CAP

QTY: 1

A 2 1/2" NST chrome plated pressure vented cap shall be installed at the officer side rear discharge.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - OS REARDI

QTY: 1

The officer side rear discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated Class One gauge shall be White.

DECK GUN DISCHARGE

QTY: 1

A deck gun discharge shall be plumbed from the pump to an area on top of the vehicle.

The deck gun piping shall be firmly supported and braced.

DECK GUN DISCH TERMINATE @ CENTER OF DUNNAGE

QTY: 1

The deck gun discharge shall be located in the center of the dunnage area above the pump module.

A pedestal type, 1/4" steel plate support assembly shall be provided to stabilize deck gun plumbing below deck gun mount flange.

DECK GUN DISCHARGE TERMINATION TO MATCH DECK GUN

QTY: 1

The deck gun discharge pipe shall terminate with a connection matching the specified deck gun model and accessories.

3" TFT MANUAL EXTEND-A-GUN (18") PIPE

QTY: 1

To improve the operation range of the deck gun, the discharge pipe shall be outfitted with a TFT (18") Extend-A-Gun, part # XG18VL-**. The Extend-A-Gun shall be wired to the hazard light on the cab dash.

DECK GUN DISCHARGE

QTY: 1

Deck gun height will be limited to the critical overall apparatus height listed in the spec. To avoid excessive travel heights the monitor will be positioned as low a practical while still allowing functionality of water stream.

DECK GUN DISCHARGE, PLUMBING, 3" STAINLESS STEEL P

QTY: 1

The deck gun discharge shall be plumbed utilizing 3" schedule 10 stainless steel piping, 45 degree elbows and a limited number of 90 degree sweep elbows in an assembly from the pump to the deck gun location.

A minimum of one (1) grooved pipe coupling shall be furnished in this assembly to allow for flex and serviceability.

3" AKRON #8800 SERIES - S.S. BALL, VALVE DECK GUN

QTY: 1

An Akron Brass 3" Generation II Swing-Out Valve shall be provided for the deck gun discharge.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

PUSH/PULL CONTROL FOR DECK GUN DISCHARGE

QTY: 1

The deck gun discharge valve shall be controlled by a push/pull handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - DECK GUN

QTY: 1

The deck gun discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated Class One gauge shall be White.

TFT "HURRICANE" MANUAL DECK GUN

QTY: 1

A TFT Hurricane monitor shall be supplied and mounted on the deck gun discharge of the unit to provide the maximum travel clearance.

TFT "MASTER STREAM" 1250 GPM MANUAL NOZZLE

QTY: 1

A TFT model "MASTER STREAM" 1250 GPM nozzle shall be supplied with the deck gun.

TFT QUAD STACKED TIPS AND STREAM STRAIGHTENER

QTY: 1

A set of TFT stacked tips and stream straightener shall be provided with the monitor.

#1 FRONT DISCHARGE 1-1/2"

QTY: 1

A 1 1/2" front #1 discharge shall be plumbed to the front bumper of the vehicle.

1-1/2" NST CHICKSAN SWIVEL @TOP OS FRONT BUMPER #1

QTY: 1

The front #1 discharge shall terminate on the top officer's side of the front bumper extension gravel shield with a chrome 1 1/2" NST chicksan swivel adapter.

#1 FRONT DISCHARGE, PLUMBING, 2" STAINLESS STEEL P

QTY: 1

The front #1 discharge shall be plumbed utilizing 2" schedule 10 stainless steel piping, flexible hosing, 45 degree elbows, and a limited number of 90 degree sweep elbows in an assembly from the pump to the front of the vehicle.

A minimum of one (1) grooved pipe coupling shall be furnished in this assembly to allow for flex and serviceability.

Automatic discharge drains shall be provided at all low points in the plumbing.

2" AKRON #8800 SERIES - S.S. BALL, VALVE FRONT#1 D

QTY: 1

An Akron Brass 2" Generation II Swing-Out Valve shall be provided for the front #1 discharge.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

PUSH/PULL CONTROL FOR FRONT #1 DISCHARGE

QTY: 1

The front #1 discharge valve shall be controlled by a push/pull handle located on the operator's panel.

1-1/2" NST FRONT #1 DISCHARGEPRESSURE VENTED CAP

QTY: 1

A 1 1/2" NST chrome plated pressure vented cap shall be installed the front #1 discharge.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - FRONT #1

QTY: 1

The front #1 discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE - FRONT #1 DIS

QTY: 1

The color of the illuminated Class One gauge shall be White, on the front #1 discharge.

CROSSLAY #1

QTY: 1

A crosslay hose bed shall be provided and plumbed from the pump in a transverse design, located above the pump enclosure for quick attack deployment. The crosslay hose bed flooring shall be designed to be removable and constructed from brushed finish, perforated aluminum material.

CROSSLAY #1 CAPACITY

QTY: 1

Crosslay #1 shall be designed to have a minimum total capacity of 3.5 cubic feet as required by NFPA - 1901 to accommodate a minimum of 200 feet of 1-3/4" fire hose.

CROSSLAY #1 DESIGN

QTY: 1

Crosslay #1 hose bed shall be designed to accommodate the fire hose in a double stack configuration.

1-1/2" NST CHICKSAN SWIVEL - CROSSLAY #1

QTY: 1

The crosslay discharge shall terminate below the hosebed floor with a 1 1/2" NSTM chicksan swivel adapter.

The crosslay hose bed floor shall be slotted to allow the swivel to extend up through the floor, allowing the pre-connected hose to be pulled off either side of the apparatus without kinking the hose at the coupling connection.

CROSSLAY #1, PLUMBING, 2" STAINLESS STEEL PIPING

QTY: 1

The crosslay #1 discharge shall be plumbed utilizing 2" schedule 10 stainless steel piping and/or flexible hose, 45 degree elbows and a limited number of 90 degree sweep elbows in an assembly from the pump to crosslay hose bed.

A minimum of one (1) grooved pipe coupling shall be furnished in this assembly, if necessary, to allow for flex and serviceability.

2" AKRON #8800 SERIES - S.S. BALL, VALVE CROSSLAY

QTY: 1

An Akron Brass 2" Generation II Swing-Out Valve shall be provided for the crosslay #1 discharge.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

PUSH/PULL CONTROL CROSSLAY #1

QTY: 1

The crosslay #1 discharge valve shall be controlled by a push/pull handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - CROSSLAY

QTY: 1

The crosslay #1 discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated Class One gauge shall be White.

CROSSLAY #2 1-3/4"

QTY: 1

A crosslay hose bed shall be provided and plumbed from the pump in a transverse design, located above the pump enclosure for quick attack deployment.

The crosslay hose bed flooring shall be designed to be removable, constructed from brushed finish, perforated aluminum material.

CROSSLAY #2 CAPACITY - 200 FEET OF 1-3/4" HOSE

QTY: 1

Crosslay #2 shall be designed to have a minimum total capacity of 3.5 cubic feet as required by NFPA - 1901 to accommodate a minimum of 200 feet of 1-3/4" fire hose.

CROSSLAY #2 - DOUBLE STACK HOSE DESIGN

QTY: 1

Crosslay #2 hose bed shall be designed to accommodate the fire hose in a double stack configuration.

1-1/2" NST CHICKSAN SWIVEL - CROSSLAY #2

QTY: 1

The crosslay discharge shall terminate below the hose bed floor with a 1 1/2" NSTM chicksan swivel adapter. The crosslay hose bed floor shall be slotted to allow the swivel to extend up through the floor, allowing the pre-connected hose to be pulled off either side of the apparatus without kinking the hose at the coupling connection.

CROSSLAY #2, PLUMBING, 2" STAINLESS STEEL PIPING

QTY: 1

The crosslay #2 discharge shall be plumbed utilizing 2" schedule 10 stainless steel piping and/or flexible hose, 45 degree elbows and a limited number of 90 degree sweep elbows in an assembly from the pump to crosslay hose bed.

A minimum of one (1) grooved pipe coupling shall be furnished in this assembly, if necessary, to allow for flex and serviceability.

2" AKRON #8800 SERIES - S.S. BALL, VALVE CROSSLAY

QTY: 1

An Akron Brass 2" Generation II Swing-Out Valve shall be provided for the crosslay #2 discharge.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats.

PUSH/PULL CONTROL CROSSLAY #2

QTY: 1

The crosslay #2 discharge valve shall be controlled by a push/pull handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - CROSSLAY

QTY: 1

The crosslay #2 discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated Class One gauge shall be White.

LOWERED CROSSLAYS

QTY: 1

The crosslay hose bed floor will be approximately 42" above the side running board and no more than 66" above ground level.

VINYL END FLAPS FOR ALUMINUM TRDPLT X-LAY CO

QTY: 1

Vinyl flaps shall be provided at each side of the transverse cross lay compartment secured to the tread plate cross lay cover by quarter turn fasteners, and equipped with a strap to each end.

END FLAP COVER RED IN COLOR

QTY: 1

The crosslay end flap shall be red in color.

FRONT HINGED CROSSLAY HOSE BED COVER,TRDPLT

QTY: 1

A 3/16" tread plate plate cross lay cover shall be provided with a full length stainless steel hinge at the front of the cover.

BOOSTER REEL #1

QTY: 1

BOOSTER REEL #1 DISCHARGE

QTY: 1

A 1 1/2" booster reel discharge shall be plumbed from the pump to the booster reel.

BOOSTER REEL #1 DISCHARGE, PLUMBING, 1" HOSE

QTY: 1

The booster reel discharge shall be plumbed from the valve to the hose reel utilizing 1" hose. The end of the hose connected to the hose reel shall be equipped with a swivel end for ease in hose replacement.

1-1/2" AKRON #8800 SERIES - S.S. BALL, VALVE BOOST

QTY: 1

A 1 1/2" Akron, #8800 series, full flow, stainless steel ball valve shall be provided for the booster reel #1 discharge.

PUSH/PULL CONTROL FOR BOOSTER REEL #1

QTY: 1

The booster reel discharge valve shall be controlled by a push/pull handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - BOOSTER R

QTY: 1

The booster reel discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated Class One gauge shall be White.

BOOSTER REEL #1 - HANNAY ALUMINUM

QTY: 1

BOOSTER REEL #1 One(1) Hannay, aluminum, Super Booster, electric rewind booster reel shall be furnished.

The reel shall be equipped with a one(1) inch 90 full flow swivel joint and an adjustable brake for freewheeling, drag or full lock operation.

BOOSTER REEL #1 LOCATED ABOVE PUMP ENCLOSURE - DS

QTY: 1

The booster reel #1 shall be mounted above the pump enclosure towards the driver's side of the unit.

HOSE REEL #1 REWIND DRIVER'S SIDE PUMP PANEL

QTY: 1

Booster reel rewind shall be controlled by a pump panel mounted push button on the driver's side panel.

The booster reel circuit shall be equipped with a shielded toggle switch to act as a booster reel disconnect to avoid accidental actuation of the booster reel rewind button.

BOOSTER REEL #1 HOSE, 150 FEET OF 1" HOSE

QTY: 1

Each booster reel shall be equipped with 150' of 1" booster hose in (1) 100' section and (1) 50' section.

Each length shall be fitted with NST couplings.

CAPTIVE HOSE ROLLER ASSEMBLY FOR SIDE OF PUMP PANE

QTY: 1

A captive roller arrangement shall be provided around the perimeter of the opening at the dunnage area allowing hose to be pulled out in any direction.

BOOSTER REEL #2

QTY: 1

BOOSTER REEL #2 DISCHARGE

QTY: 1

A 1 1/2" booster reel discharge shall be plumbed from the pump to the booster reel.

BOOSTER REEL #2 DISCHARGE, PLUMBING, 1" HOSE

QTY: 1

The booster reel discharge shall be plumbed from the valve to the hose reel utilizing 1" hose. The end of the hose connected to the hose reel shall be equipped with a swivel end for ease in hose replacement.

1-1/2" AKRON #8800 SERIES - S.S. BALL, VALVE BOOST

QTY: 1

A 1 1/2" Akron, #8800 series, full flow, stainless steel ball valve shall be provided for the booster reel #2 discharge.

PUSH/PULL CONTROL FOR BOOSTER REEL #2

QTY: 1

The booster reel discharge valve shall be controlled by a push/pull handle located on the operator's panel.

CLASS ONE, LIGHTED, 2-1/2" PRESS GAUGE - BOOSTER R

QTY: 1

The booster reel discharge shall be equipped with a Class One 2 1/2" pressure gauge which shall contain a vibration dampened internal mechanism.

To prevent internal freezing, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem.

A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

The pressure gauge shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

WHITE ILLUMINATED GAUGE - CLASS ONE

QTY: 1

The color of the illuminated Class One gauge shall be White.

BOOSTER REEL #2 - HANNAY ALUMINUM

QTY: 1

One (1) Hannay, aluminum, Super Booster, electric rewind booster reel shall be furnished.

The reel shall be equipped with a one(1) inch 90 deg Full flow swivel joint and an adjustable brake for freewheeling, drag or full lock operation.

BOOSTER REEL #2 LOCATED ABOVE PUMP ENCLOSURE - OS

QTY: 1

The booster reel #2 shall be mounted above the pump enclosure towards the officer's side of the unit.

HOSE REEL #2 REWIND OS SIDE PUMP PANEL

QTY: 1

Booster reel rewind shall be controlled by a pump panel mounted push button on the officer's side panel.

The booster reel circuit shall be equipped with a shielded toggle switch to act as a booster reel disconnect to avoid accidental actuation of the booster reel rewind button.

BOOSTER REEL #2 HOSE, 150 FEET OF 1" HOSE

QTY: 1

Each booster reel shall be equipped with 150' of 1" booster hose in (1) 100' section and (1) 50' section.

Each length shall be fitted with NST couplings.

TWO (2) BOOSTER REEL HOSE ROLLERS - DS & OS BLANK

QTY: 1

Two (2) horizontal hose rollers of polished stainless steel and guide spools shall be placed one (1) on each side panel.

FOAM SYSTEM STAINLESS PIPING - 1 INCH FROM FOAM SO

QTY: 1

All foam concentrate plumbing from the tank or auxiliary foam inlet to the foam system components shall be stainless steel and nonferrous material.

The foam system piping shall incorporate a check valve to prevent water from entering the foam tank; the discharge piping shall also include a check valve to prevent foam solution from back feeding into the discharge side of the pump.

Individual discharge piping shall be as specified for each discharge.

The complete foam system shall be tested in accordance with NFPA-1901.

FOAMPRO 2001 CLASS "A AND/OR B" FOAM SYSTEM

QTY: 1

A FoamPro model 2001, electronic, fully automatic, variable speed, direct injection, discharge side foam proportioning system shall be installed in the pumping system.

The system shall be capable of handling Class "A" foam concentrates and most Class "B" foam concentrates.

The foam proportioning operation shall be based on direct measurement of water flows, and remain consistent within the specified flows and pressures.

System must be capable of delivering accuracy to within 3% of calibrated settings over the advertised operation range when installed according to factory standards.

The system shall be equipped with a digital electronic control display suitable for installation on the pump panel.

Incorporated within the control display shall be a microprocessor that receives input from the system flow meter, while also monitoring foam concentrate pump output, comparing values to ensure that the operator preset proportional amount of foam concentrate is injected into the discharge side of the fire pump.

A paddlewheel-type flow meter shall be installed in the discharge or manifold system specified to be foam capable.

A Full flow check valve shall be provided to prevent foam contamination of fire pump and water tank or water contamination of foam tank.

A 12 or 24-volt electric motor drive positive displacement foam concentrate pump, rated up to 2.5 GPM (9.5 L/min) @ 150 psi with operating pressures up to 400 psi (27.6 BAR), shall be installed in a suitable, accessible location.

The system shall draw a maximum of 40 amps @ 12 VDC or 21 amps @ 24 VDC.

A pump motor electronic driver (mounted to the base of the pump) shall receive signals from the computer control display and power the 1/2 hp (0.40 Kw) electric motor directly coupled to the concentrate pump in a variable speed duty cycle to ensure that the correct proportion of concentrate preset by the pump operator is injected into the water stream.

The digital computer control display located on the pump operator's panel shall enable the pump operator to perform the following control and operation functions for the foam proportioning system:

- Provide push-button control of foam proportioning rates from 0.1% to 9.9%, in 0.1% increments
- Show current flow-per-minute of water
- Show total volume of water discharged during and after foam operations are completed
- Show total amount of foam concentrate consumed
- Simulate flow rates for manual operation
- Perform setup and diagnostic functions for the computer control microprocessor
- Flash a low concentrate warning when the foam concentrate tank(s) runs low
- Flash a no concentrate warning and shut the foam concentrate pump off, preventing damage to the pump, should the foam tank(s) empty

The digital computer control display shall interface with the options listed; provide dual foam calibration, and display separate totals for each foam concentrate used.

If two foam tanks are required and piped to the foam concentrate pump, either an electric dual tank valve or the manual dual tank valve shall be provided.

Components of the complete proportioning system shall include:

- Operator control and display
- Paddlewheel flow meter
- Pump and electric motor/motor driver
- Wiring harnesses
- Low-level tank switch (Switches)
- Electronic dual tank valve or manual dual tank valve (if more than one tank)
- Foam injection check valve
- Main waterway check valve

Accurate concentration proportioning can be achieved, based on the following water flows:

- 85 GPM water 3.0% concentration
- 260 GPM water 1.0% concentration
- 520 GPM water 0.5% concentration
- 1300 GPM water 0.2% concentration

Note: Multiple discharges plumbed to this system may affect performance if the flow rates are exceeded by any one discharge or the totality of multiple discharges at one time!

INJECTION SYSTEM DISCHARGE PLUMBING

QTY: 1

The discharge piping shall be equipped with a properly sized flow meter sensor, based on the systems capabilities.

The foam system shall be plumbed to the following discharge/s through the discharge piping or manifold system:

INJECTION FOAM SYSTEM INSTALLED ON CROSSLAY #1

QTY: 1

Crosslay #1 discharge.

INJECTION FOAM SYSTEM INSTALLED ON CROSSLAY #2

QTY: 1

Crosslay #2 discharge.

FOAM SYSTEM INSTALLED ON FRONT DISCHARGE

QTY: 1

Front discharge.

INJECTION FOAM SYSTEM INSTALLED ON DS REAR DISCHAR

QTY: 1

Driver's side rear discharge.

INJECTION FOAM SYSTEM INSTALLED ON HOSEREEL # 1

QTY: 1

Hose reel # 1 discharge.

PUMP INSTALLATION

QTY: 1

SIDE MOUNT PUMP MODULE

QTY: 1

The pump module shall be a self-supported structure mounted independently from the body and chassis cab.

The design must allow normal frame deflection without imposing stress on the pump module structure or side running boards. The pump module shall be securely mounted to the chassis frame rails.

PUMP MODULE MATERIAL

QTY: 1

The pump module shall be a welded frame work utilizing structural aluminum components properly braced to withstand the rigors of chassis frame flex.

SIDE MOUNT DUNNAGE AREA

QTY: 1

A dunnage area shall be provided above the pump enclosure for equipment mounting and storage. This area shall be furnished with a removable 3/16" tread plate floor and shall be enclosed on the sides.

NOTE: The size of this storage area may vary when top mounted crosslays, booster reel(s), etc., are specified and located in this area.

RUNNING BOARD STEPS (NON-AERIALS)

QTY: 1

The driver and officer running board steps shall be fabricated of 3/16" tread plate plate.

The outside edge on each step shall be fabricated with a double break, return flange.

The steps shall be rigidly reinforced with a heavy duty support structure.

The running boards shall not form any part of the compartment design, and shall be bolted into place with a minimum 1/2" clearance gap between any panel to facilitate water runoff.

STORAGE WELL IN OFFICERS SIDE RUNNING BOARD

QTY: 1

A storage well, constructed of 1/8" aluminum, shall be recessed into the officer's side running board.

The storage well shall measure 9" deep x 9" wide x as long as possible between the running board support members.

Drain holes shall be located in the bottom corners to allow water to drain from the storage well.

TWO (2) VELCRO STRAPS ON OFFICER'S SIDE STORAGE WE

QTY: 1

The officer's side running board hose well shall be furnished with Velcro straps to secure the hose stored in the well.

The straps shall be attached to each side of the hose well with stainless steel footman loops.

OFFICER'S SIDE WELL - GENERAL STORAGE

QTY: 1

The officer's side storage well shall be utilized for general storage of tools or equipment, the well shall be a large as space allows.

STORAGE WELL IN DRIVERS SIDE RUNNING BOARD

QTY: 1

A storage well, constructed of 1/8" aluminum, shall be recessed into the driver's side running board.

The storage well shall measure 9" deep x 9" wide x as long as possible between the running board support members.

Drain holes shall be located in the bottom corners to allow water to drain from the storage well.

TWO (2) VELCRO STRAPS ON DRIVER'S SIDE STORAGE WEL

QTY: 1

The driver's side running board hose well shall be furnished with Velcro straps to secure the hose stored in the well.

The straps shall be attached to each side of the hose well with stainless steel footman loops.

DRIVER'S SIDE WELL - GENERAL STORAGE

QTY: 1

The driver's side storage well shall be utilized for general storage of tools or equipment, the well shall be a large as space allows.

SIDE MOUNT PUMP PANEL

QTY: 1

The pump operator's control panel shall be located on the driver side of the apparatus.

The pump enclosure side panels shall be completely removable and designed for easy access and servicing.

SIDE MOUNT PANELS - 14 GAUGE BRUSHED STAINLESS STE

QTY: 1

The left side operator's panel, gauge panel, right side pump panel, and right side access door shall be fabricated from 14-gauge 304L stainless steel with a #4 (150/180 grit) standard brushed finish.

VERTICALLY HINGED GAUGE PANEL - SIDE MOUNT

QTY: 1

A full width, vertically hinged gauge access panel shall be provided at the operator's position.

Chrome plated positive locks shall be provided along with chain holders to prevent the front of the gauge panel from coming in contact with other panels when open.

OFFICER SIDE VERTICALLY HINGED PUMP ACCESS DOOR -

QTY: 1

The officer's side pump panel shall be split and vertically hinged to provide complete access to the pump and plumbing on the officer's side of the pump enclosure.

The panels shall be equipped with stainless steel hinges and secured with push type locks to hold the panels closed.

The drains located on the officer's side panel shall be fastened to the lower panel, which shall be stationary.

PANEL FASTENERS

QTY: 1

Stainless steel machine screws and lock washers shall be used to hold these panels in position.

The panels shall be easily removable to provide complete access to the pump for major service.

CAPS AND ADAPTERS SAFETY TETHER - CABLES

QTY: 1

All applicable discharge and suction caps, plugs and adapters shall be equipped with tether cables and secured to the vehicle.

PUMP PANEL DISCH./SUCTION TRIM PLATES

QTY: 1

A high polished trim plate shall be provided around each discharge port and suction inlet opening to allow accessibility to the respective valve for service and repairs.

DISCHARGE GAUGE TRIM BEZELS

QTY: 1

Each individual discharge gauge shall be installed into a decorative chrome-plated mounting bezel that incorporates valve-identifying verbiage and color labels, unless manufacturer supplied otherwise.

PUMP PANEL TAGS FASTENED WITH MACHINE SCREWS

QTY: 1

The pump panel identification plates shall be securely fastened to the pump panels with machine screws.

PUMP OPERATOR'S PANEL LIGHT SHIELD

QTY: 1

The pump operator's panel shall be equipped with a light shield that shall be the full available width of the control panel, and shall be positioned to cover the lights and prevent glare. (Note: On apparatus with lowered style crosslays, the light shield shall be from the back of the crosslays to the rear of the pump house).

The light shield shall be equipped with the following lights:

TECNIQ 6" LED LIGHTS - LIGHT SHIELD

QTY: 1

Four (4) TecNiq 6" long LED lights.

One (1) light under the operator's panel light shield shall be actuated when fire pump is engaged in addition to the pump engaged light.

OS PUMP PANEL, FULL WIDTH LIGHT SHIELD/STEP

QTY: 1

The officer side pump panel shall be equipped with a light shield/step that shall be full width of the panel, and shall be positioned to cover the lights and prevent glare.

The light shield shall be fabricated from tread plate, which shall also serve as a step.

The step shall be a minimum of 8" deep X the width of the pump panel.

The light shield shall be equipped with the following lights:

TECNIQ 6" LED LIGHTS - LIGHT SHIELD/STEP

QTY: 1

Four (4) TecNiq 6" long LED lights.

The lights shall be switched with the operator panel lights.

AIR HORN CONTROL BUTTON ON PUMP PANEL

QTY: 1

Pump panel air horn actuation button labeled "EVACUATION" in white letters with a red background.

PUMP PRESSURE & VACUUM TEST PORTS @ PANEL

QTY: 1

The pump panel shall be equipped with Vacuum Pressure test plugs to allow for test equipment to monitor pump pressure and vacuum levels.

Chrome plugs and labels shall be provided for the test ports.

4-1/2" CLASS ONE, LIGHTED, MASTER PRESS. AND COMPO

QTY: 1

One (1) 4-1/2" diameter pressure gauge (labeled: "PRESSURE") and one (1) 4-1/2" diameter compound vacuum gauge (labeled: "INTAKE") shall be provided.

The master gauges shall be Class One and shall be illuminated internally using light emitting diodes, which shall be wired through the pump panel light circuit.

The gauge face shall be white with black numerals.

4-1/2" WHITE ILLUMINATED GAUGES - CLASS ONE

QTY: 1

Both gauges shall be White.

PRESSURE & COMPOUND GAUGE RANGES - SINGLE STAGE

QTY: 1

All applicable pressure gauges shall have a range of 0 - 400 P.S.I., and the compound gauge shall have a range of -30" - 0 - 400 P.S.I.

PUMP CERTIFICATION - 750 GPM & UP

QTY: 1

The pump shall be third party performance tested to meet the requirements of NFPA-1901. There will be no exceptions.

WATER TANK

QTY: 1

The water tank shall have a capacity of 500 gallons, constructed from Poly material.

FILL TOWER

QTY: 1

The tank shall have a combination vent and manual fill tower.

The fill tower shall be constructed of 1/2" polypropylene and shall be a minimum dimension of 8" x 8" outer perimeter.

The fill tower shall be blue in color indicating that it is a water-only fill tower.

The tower shall have a 1/4" thick removable polypropylene screen and a polypropylene hinged cover.

The capacity of the tank shall be engraved on the top of the fill tower lid. Inside the fill tower there shall be a combination vent/overflow pipe.

The vent overflow shall be a minimum of schedule 40 polypropylene pipe with a minimum I.D. of that is designed to run through the tank, and shall be piped to discharge water behind the rear wheels as required in NFPA 1901 so as to not interfere with rear tire traction.

WATER TANK

QTY: 1

The fill tower shall be fitted with an integral 4" I.D. schedule 40 P.V.C. combination overflow/vent pipe running from the fill tower through the tank to a 4" coupling flush mounted into the bottom of the tank to allow water to overflow behind the chassis rear axle.

WATER TANK

QTY: 1

A 2" drain valve with a 1/4 turn handle shall be provided.

4" ID SLEEVES THRU TANK

QTY: 1

Two (2) 4" inside diameter, water tank sleeves shall be provided to accommodate rear discharge or suction plumbing to the rear of the unit.

The tank sleeves shall be provided as part of the tank assembly by the tank manufacturer to allow installation of piping.

WATER TANK MODIFICATION FOR SINGLE DIRECT TANK FIL

QTY: 1

INTEGRAL FOAM TANK, 20 GAL. TANK "A"

QTY: 1

Included in the total capacity of the water tank, a 20 gallon integral foam storage area shall be built into the water tank.

The foam tank shall have a latched fill tower, properly labeled as the foam fill point.

A valved drain shall be provided.

WATER TANK LEVEL GAUGE

QTY: 1

A Fire Research, model #WLA300-A00, "TANKVISION" gauge that shows the actual volume of water in the tank shall be provided on the pump operator's panel. The "TANKVISION" gauge is designed for both ease of operation and installation. The "TANKVISION" gauge utilizes ultra bright multi color LEDs for sunlight readability and also uses 2 specially designed wide-viewing lens for 180° of clear viewing. The "TANKVISION" gauge utilizes a pressure sender to measure the liquid volume. The gauge shall be equipped with a self-calibration feature that allows the LEDs TANKVISION gauge to be used on tanks of different shapes and sizes.

Features:

- Flashes warning when the volume is less than 25%. Rapid down scrolling LEDs alert the operator when the tank is almost empty. Remote audio warning available.
- One size fits all'. The self-calibration feature allows for easy calibration of any shape or size tank.
- Multiple displays are possible with a single sender through the FRC data bus.
- Rugged waterproof cast aluminum housing.
- No fitting needed for poly tank.
- Special fittings available for other tank materials.
- Connector disconnects at back of display.

WATER TANK LEVEL GAUGE

QTY: 1

The gauge shall use a pressure transducer installed near the bottom of the water tank to determine the correct volume in the tank.

WATER TANK LEVEL GAUGE

QTY: 1

A Fire Research model #WLA290, remote relay module shall be provided to provide outputs for large indicator lights on the side of the vehicle.

CAB WATER TANK LEVEL GAUGE

QTY: 1

A large light water level gauge system shall be provided on both sides of the cab. Each side shall have a Whelen model PSTANK2, LED strip light, surface mounted, behind the rear crew door above the handrail.

The strip light shall indicate the following water levels:

- Green LED cluster Full tank
- Blue LED cluster 3/4 tank
- Amber LED cluster 1/2 tank
- Red LED cluster 1/4 tank

The red LEDs shall burn steady to indicate 1/4 tank and shall start to flash when the water level drops below 1/4 tank. To prevent distraction to drivers, this tank level gauge shall be wired to display only when the park brake is engaged.

DIRECT TANK FILL

QTY: 1

One (1) 2-1/2" NST direct tank fill shall be provided at the rear of the body, on the driver side, as low as possible.

The direct tank fill shall be gated with a 2-1/2" Akron ball valve with a swing handle.

The fill shall be equipped with a 30 degree elbow terminating with a 2-1/2" NST female swivel connection.

A quarter turn drain valve shall be supplied to bleed off excess pressure with a drain hose routed beneath the rear step area.

APPARATUS BODY GENERAL DESCRIPTION (PUMPER)

QTY: 1

The body side and compartment assemblies shall be designed and assembled to provide maximum strength and durability under all operating conditions. Special attention shall be taken to minimize corrosion on all fabricated parts and structural members of the body. All bolt-on components shall be provided with a dissimilar metals isolation barrier to prevent electric corrosion.

The body design shall also incorporate removable panels to access spring hangers, rear body mounts and fuel tank sending units. The body assembly shall be an all-welded configuration. The body shall be completely isolated from the cab and pump module structure.

Dimensions used in this specification shall be the general outer dimension taken from a typical line diagram of the apparatus. These dimensions shall not take into account items like material thickness, access panels, doors, and other installed options.

BODY SUB FRAME - ALUMINUM

QTY: 1

The body sub structure shall be an all welded configuration utilizing a combination of 3" x 1-1/2" 6061-T6 thick walled structural tubing and 6061 structural channel.

This structure shall be designed to totally support the full length and width of the body and shall be welded to the body side compartments by use of reinforcement plates to incorporate the compartments into an integral part of the body weldment.

The sub structure shall be bolted to the sides of the chassis frame at four (4) points.

The two (2) forward mounting points shall utilize a spring mount to help isolate the body from chassis deflection.

This design shall provide storage capacity in each side compartment for a minimum of 500 lbs of equipment, and a minimum of 1000 lbs of equipment in the rear step compartment.

100" WIDE BODY, 29"/14" DEEP SIDE COMPARTMENTS

QTY: 1

The fire body shall be 100" wide to provide the maximum amount of usable hose bed and compartment space. The side body compartments shall be 29" deep in any full depth areas and 14" deep in any split depth areas.

SWEEP-OUT COMPARTMENTS (NON-AERIALS)

QTY: 1

Compartment floors shall be welded to the compartment walls and have a sweep out design for easy cleaning.

Compartments with hinged doors shall have the door opening flanges bend down to produce the sweep-out design.

Compartments with roll-up style doors shall have the external floor flange stepped down to produce a sealing surface for the roll-up doors below the compartment floor.

The sweep out design shall also permit easy cleaning.

FASTENERS

QTY: 1

FASTENERS

All exterior fasteners shall be stainless steel screws.

NOTE: The use of aluminum pop rivets or self tapping screws as a trim fastener shall not be acceptable.

COMPARTMENT LOUVERS

QTY: 1

Ventilation between compartments to atmosphere shall be provided and located to avoid water entry into compartments.

ACCESS PANELS

QTY: 1

Removable access panels shall be provided (if applicable) to access fuel tank sender, electrical junction compartment and rear body mounts.

Protective panels shall be located in the rear compartments providing access to the lights and associated wiring.

The covers shall also serve as protective covers to prevent inadvertent damage to lights or wiring from tools or equipment located in the compartment.

BODY MATERIAL: 3/16" ALUMINUM

QTY: 1

All compartment panels and body side sheets shall be fabricated entirely of 3/16" aluminum (5052-H32). Each side compartment assembly shall be both plug welded and stitch welded to ensure proper weld penetration on all panels, while avoiding the possible warping caused by a full seam weld.

The side compartments shall be welded on a fixture to ensure true body dimensions of all door openings. The side compartments and body side panels are then set into a body squaring fixture where the super structure is installed and the entire body is aligned to be completely symmetrical. The super structure is then welded to the compartment side panels and the reinforcement plates are inserted, allowing the compartment panels to become an integral component of the body support structure.

A full seam weld shall not be used due to the applied heat which shall distort sheet metal and remove the protective coating from the perimeter of the welded area. All seams shall be caulked prior to the paint being finished to ensure proper compartment sealing.

64" WIDE FENDER - CUSTOM

QTY: 1

The body fender shall be 64" long, this shall allow for the suspension and related components to be contained within the fender, preventing any intrusion into the body compartment storage area. Bodies with notches in the front and/or rear compartment for suspension components are not acceptable. There will be no exceptions.

FENDER WITH STORAGE OPTIONS (CUSTOM)

QTY: 1

DRIVER FORWARD FENDER - TRIPLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for three (3) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The storage area shall be sized as tall and wide as possible in the fender (minimum of 14" wide x 15" tall with an angled floor by fender radius), and shall be 26" deep.

The compartment shall have a non-abrasive lined cradle storage area for each of the three (3) devices.

This storage compartment shall provide a minimum of 2.3 cubic feet of storage space.

DRIVER REARWARD FENDER - DOUBLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for two (2) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The storage area shall be sized as tall and wide as possible in the fender (minimum of 15" wide x 7-3/4" tall), and shall be 26" deep.

The compartment shall have a non-abrasive lined cradle storage area for each of the devices.

This storage compartment shall provide a minimum of 1.6 cubic feet of storage space.

OFFICER FORWARD FENDER - TRIPLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for three (3) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The storage area shall be sized as tall and wide as possible in the fender (minimum of 14" wide x 15" tall with an angled floor by fender radius), and shall be 26" deep.

The compartment shall have a non-abrasive lined cradle storage area for each of the three (3) devices.

This storage compartment shall provide a minimum of 2.3 cubic feet of storage space.

OFFICER REARWARD FENDER - DOUBLE STORAGE SLOT

QTY: 1

A storage compartment shall be inserted into the fender to provide a storage area for two (2) customer supplied SCBA cylinders (or fire extinguishers of similar size).

The compartment shall have a non-abrasive lined cradle storage area for each of the devices.

This storage compartment shall provide a minimum of 1.6 cubic feet of storage space.

FENDER STORAGE COMPARTMENTS - POLISHED DOORS

QTY: 1

The fender storage area(s) shall be enclosed by a hinged door fabricated from mirror finish stainless steel.

The back side of the door shall have a section of Nylatron installed to protect the door surface from the items stored in the compartment.

Each door shall be tied into the compartment door ajar/do not move apparatus warning system.

Each fender storage compartment door will be equipped with 3M model #1333 rubber "D" style door seal.

There will be no exceptions.

MEDIUM PUMPER BODY (ACCOMMODATES UP TO 1250 GALLON

QTY: 1

MEDIUM - DS FULL HEIGHT/FULL DEPTH

QTY: 1

One full height/full depth compartment shall be provided forward of the rear wheels. The compartment dimensions shall be 39" wide x 68" tall.

One high sided compartment shall be provided above the rear wheels. The compartment dimensions shall be 64" wide x 35-5/8" high.

One full height/full depth compartment shall be provided behind the rear wheels. The compartment dimensions shall be 46" wide x 68" tall.

All compartments will be full depth.

MEDIUM - OS FULL HEIGHT/FULL DEPTH

QTY: 1

One full height/full depth compartment shall be provided forward of the rear wheels. The compartment dimensions shall be 39" wide x 68" tall.

One high sided compartment shall be provided above the rear wheels. The compartment dimensions shall be 64" wide x 35-5/8" high.

One full height/full depth compartment shall be provided behind the rear wheels. The compartment dimensions shall be 46" wide x 68" tall.

All compartments will be full depth.

REAR STEP COMPARTMENT - FULL WIDTH, REDUCED HEIGHT

QTY: 1

An equipment storage compartment shall be provided on the rear of the body, located at the rear step area. The rear step compartment shall be 42" wide x 30" high x 29" deep. The rear step compartment shall provide approximately 21 cubic feet of storage space.

REAR STEP COMPARTMENT - FULL SIDE WALLS

QTY: 1

The rear step compartment shall have full side panels which will isolate the storage area from the side body compartments.

2" THICK COMPARTMENT DOORS - FLAT RECESSED DOORS

QTY: 1

The compartment doors shall be flush type having the outer skin fabricated from 3/16" (5052 H32) aluminum. The door skin shall have a formed a mounting flange on one (1) side as a hinge. The door skin shall have reinforcing channels welded internally to accommodate the inner door pan mounting. The 2" thick compartment doors shall reduce the overall specified compartment depth by 2-1/2". All horizontally hinged doors shall be 1" thick to provide additional compartment storage area. The 1" thick horizontal hinged doors shall reduce the overall specified compartment depth by 1-1/4".

BRUSHED FINISHED DOOR PANS - 2" THICK DOORS

QTY: 1

Each inner door pan shall be constructed from 1/8" aluminum material which shall be provided with a brushed finish and bolted to the internal side of the door. The inner door pan on 2" thick doors shall enclose the latch and reinforcements completely. The inner door pan shall be easily removable to access the enclosed latch mechanism.

DOOR HINGE FOR FLUSH HINGED DOORS

QTY: 1

Hinges shall be full length polished stainless steel piano type. The hinges shall be mounted with stainless steel hardware.

DOOR SEAL FOR FLUSH HINGED DOORS

QTY: 1

Enclosed body compartment doors shall be equipped with a closed cell gasket.

The gasket material shall be EPDM to provide a gasket resistant to weather, temperature extremes, and aging.

ROTARY LATCHES WITH D-RING HANDLES

QTY: 1

Externally latched body doors shall be equipped with stainless steel D-ring handles.

Rotary door latches shall be provided for all full height body doors, which shall incorporate rotary latches at the top and bottom of all externally latched single or double doors.

Linkages shall be provided between the actuation handle and the latch mechanisms.

The blank door of a double door configuration shall have rotary latches at the top and bottom of each door with the latch release lever accessible thru the door frame, which eliminates the need to reach inside the compartment to release the door.

Linkages shall be provided between the actuation handle and the latch mechanisms.

Horizontally hinged doors shall be equipped with a single rotary door latch.

KEYED DOOR LOCKS, HINGED OR ROLL-UP DOORS

QTY: 7

A compartment door(s) shall be equipped with keyed locking door latches.

Two keys shall be furnished for each lock and shall be labeled to indicate the correct match.

KEY MODEL #1250

QTY: 7

The specified door lock cylinder shall be equipped with a #1250 key.

GAS SHOCK ON HORIZONTALLY & VERTICALLY HINGED

QTY: 1

Eberhard gas shock type door hold open devices shall be provided for each vertically and horizontally hinged door.

REAR STEP COMPARTMENT - HINGED DOOR - PAINTED ALUM

QTY: 1

The rear step compartment shall be equipped with a hinged style compartment door. The door shall be a double door configuration.

The finish shall be painted job color aluminum.

29" WIDE COFFIN COMP'TS, FULL DEPTH 100" BODY, DRI

QTY: 1

Roof hatch style compartments shall be provided the full length of the body, on the driver's side of the body hose bed area and shall be designed as an integral extension of the lower side compartments with a painted exterior finish.

Drain tubes shall be provided at each end of each side compartment which shall extend down through the lower compartments.

Each side roof compartment shall extend the length of the body, which shall be evenly divided into three (3) individually accessed areas, which shall be open through from the front to the rear.

The compartment depth shall extend from the ceiling area of the upper side compartments to the top of the body.

The interior compartment width of each side roof compartment shall be a minimum of 28-1/2" inside width with a 25" wide access door at the top.

Each roof compartment shall be equipped with an overlapping, hinged lift up tread plate door.

These doors shall be constructed of 3/16" aluminum tread plate with a 15 degree break on all sides.

Each door shall have two (2) gas shock style stay open devices which shall also retain the door in the closed position.

Protective panels shall be applied inside the compartments to cover any exposed wiring or recessed side body lighting, provided on the unit.

These panels shall reduce the overall usable compartment area in the compartments.

There will be two (2) removable partitions between the coffin compartments.

REAR BODY PANEL

QTY: 1

The rear body panel shall extend the full width between the body side compartments.

This panel shall be full height from the rear step to the hose bed floor.

No part of the rear panel shall be attached to the booster tank.

The rear body panel material shall be tread plate as standard.

If Chevron striping is specified for the rear of the body then smooth aluminum shall be utilized.

STAINLESS STEEL SILL PROTECTORS, HIGH SIDE COMPTS

QTY: 1

A 90 deg angle door sill protector, fabricated from 18 gauge brushed finish stainless steel shall be installed on the bottom external edge of each high side compartment door opening to protect this area from paint chipping.

TREAD PLATE OVERLAY, FRONT OF SIDE COMP'TS (NON-WR

QTY: 1

The front face of the side compartments, next to the driver and officer pump panels shall be overlaid with full height tread plate protection panels.

The overlays shall cover the front face of the compartments only, they shall not wrap around to the door opening.

BODY RUB RAILS, C-CHANNEL - ALUMINUM EXTRUSION

QTY: 1

Sacrificial extruded aluminum C-Channel style, rub rails shall be mounted at the base of the body, extending outward from the body. The rub rails shall extend the full length of the main body.

ALUMINUM WHEEL WELL LINERS

QTY: 1

The body wheel wells shall be provided with fully removable bolt-in aluminum fender liners. The wheel well liners shall extend from the outer wheel well body panel into the truck frame. The completely washable wheel well liners shall be designed to protect the front and rear compartments and main body supports from road salts, dirt accumulation and corrosion.

POLISHED ALUMINUM FENDERETTES, SINGLE AXLE BODIES

QTY: 1

The rear fenders shall be equipped with easily replaceable bolt-in polished aluminum fenderettes. The fenderettes shall be equipped with a rubber gasket molding between the body panel and the fender.

REAR MUD FLAPS

QTY: 1

Heavy duty mud flaps shall be provided behind the rear wheels.

EXTENDED REAR STEP - 12 D X 100 W - TAPERED ENDS

QTY: 1

The extended rear step shall be 12" deep and extend beyond the body compartments. The step shall be 100" wide and have tapered corners, approximately 3" x 3" chamfer, for improved clearance. The step shall be fabricated from 3/16" tread plate plate and shall be rigidly reinforced. The rear edge of the step shall be designed to accommodate the rear clearance lights. The rear step overlay shall be bolted in place with an approximate 1/2" clearance gap between the step and rear body panel.

INTERMEDIATE REAR STEP, 8" X 48" BOLT-ON

QTY: 1

An eight (8) inch deep, bolt on intermediate rear step, fabricated from 3/16" tread plate, shall be installed. The step shall be approximately 8" deep x 48" wide.

GRAB RAILS, HANSEN KNURLED STAINLESS STEEL TYPE

QTY: 1

All hand rails shall be Hansen 1-1/4" outer diameter, knurled stainless steel, designed to meet NFPA 1901 requirements.

Molded gaskets shall be installed between the handrail stanchion castings and body surfaces to prevent electrolytic reaction between dissimilar metals and to protect paint.

Grab rails shall be provided at the following specified locations.

Additional grab rails shall be provided adjacent to any additional steps specified to comply with NFPA 1901.

TWO (2) VERTICAL RAILS ON REAR

QTY: 1

Two (2) vertical rails shall be mounted on the rear edge of the beavertails, one (1) each side.

ONE (1) HANDRAIL, BELOW HOSE BED LEVEL

QTY: 1

One (1) horizontal, full width handrail shall be installed on the rear, below the level of the hose bed.

TWO (2) 18" HORIZONTAL HANDRAILS REAR TOP OF BODY

QTY: 1

Two (2) 18" horizontal handrails shall be provided and installed one (1) on each side at rear top of body.

HANDRAIL ABOVE PUMP PANEL, EACH SIDE

QTY: 1

Two (2) horizontal handrails shall be mounted above each pump panel, (1) each side.

INNOVATIVE CONTROLS LIGHTED STEP(S), BODY FRONT, D

QTY: 1

Innovative Controls large lighted folding step(s), with a textured chrome plate finish, shall be provided on driver side body front to provide NFPA compliant access (maximum 18" height between steps) to an upper horizontal walking surface (compartment cap, dunnage area, fabricated step, or upper body compartments).

INNOVATIVE CONTROLS LIGHTED FOLDING STEP(S), BODY

QTY: 1

Innovative Controls large lighted folding step(s), with a textured chrome plate finish, shall be provided on driver side body rear to provide NFPA compliant access (maximum 18" height between steps) to an upper horizontal walking surface (compartment cap, dunnage area, fabricated step, or upper body compartments).

INNOVATIVE CONTROLS LIGHTED FOLDING STEP(S), BODY

QTY: 1

Innovative Controls large lighted folding step(s), with a textured chrome plate finish, shall be provided on officer side body rear to provide NFPA compliant access (maximum 18" height between steps) to an upper horizontal walking surface (compartment cap, dunnage area, fabricated step, or upper body compartments).

PAINTED REAR TOW EYES, BELOW BODY

QTY: 1

Two (2) painted tow eyes shall be furnished on the rear of the vehicle. The tow eyes shall be made from plate steel and shall be bolted directly to the chassis frame rails with grade 8 bolts. The tow eyes will extend below the body. The tow eyes shall be smooth and free from sharp edges. They will have a minimum eyelet hole of 2-1/2". The tow eyes shall be painted.

LOWERED HOSEBED: 42" WIDE

QTY: 1

The hose bed shall be located directly above the booster tank and be free from all sharp objects such as bolts, nuts, and so on, in avoidance of damage to the fire hose. For added strength the hose bed side walls shall be approximately 2" thick, providing a mounting surface for devices such as warning and scene lights. The inner hose bed side walls shall be brushed aluminum panels, which will help prevent damage to painted surfaces when the hose is deployed. The front wall shall be flanged inward 2" with a 1" downward return, providing additional rigidity to the front wall.

NFPA MINIMUM HOSEBED CAPACITY

QTY: 1

The hose bed shall provide a minimum of 30 cubic feet hose storage area for 2-1/2" or larger fire hose in order to meet NFPA-1901 minimum pumper hose storage requirement. The apparatus weight analysis

shall be based on 800' of 2-1/2" hose, unless otherwise specified. If the hose load carried exceeds this minimum, the purchaser should advise the manufacturer prior to contract so that adequate chassis carrying capacity can be provided.

HOSEBED FLOORING - ALUMINUM SLATS

QTY: 1

Flooring is to be constructed from extruded aluminum and have proper spaces for ventilation purposes. The flooring shall be smooth and free from sharp edges to avoid any hose damage. The hose bed floor shall be removable, providng access to the inner body framework.

THREE (3) - 1/4" ADJUSTABLE HOSEBED PARTITIONS

QTY: 1

Three (3) fully adjustable 1/4" aluminum hose bed partitions shall be provided. The partition shall be easily adjustable by channels, located at the front and rear of the hose bed. The partition shall be removable for access to the booster tank.

HOSEBED BLANK PANEL

QTY: 1

A full width divider shall be installed in the hose bed located approximately 2" beyond the end of the water fill tower.

This divider shall be constructed of smooth aluminum and shall be fixed.

The adjustable hose bed dividers shall be installed up to this divider with the adjustment tracking attached to the fixed divider.

TUBING REINFORCEMENT ON PARTITION(S) - 3/4"

QTY: 3

The top and rear edge of each of the hose bed partitions shall have a 3/4" integral tubing reinforcement welded on for additional support.

HOSE PARTITION HANDHOLD CUTOUTS [PER QTY]

QTY: 3

The hose bed partition(s) shall have a vertical handhold cutout at upper rear edge of the partition.

HOSEBED COVER - LOCK-N-LOAD SLIDING COVER

QTY: 1

The top of the hose bed shall have an NFPA compliant cover installed in order to secure the hose from unintentionally deploying from the top or rear. The cover shall be a polished, tread plate with a combination between a roller and lift-up style. The cover shall be strong enough to support 250 pounds over the entirety. The rear half of the cover shall be able to roll over the forward half of the cover on channel tracks and are sealed with ball bearing rollers. When rolled opened, the entire cover shall be capable of being lifted up on a stainless steel piano hinge installed across the front of the body. The cover shall rise no less than 60 degrees in order to load the hose. The cover shall lock when closed. When unlocked the roller portion of the cover shall be capable of rolling forward and lock into the open rolled position. The lift portion shall be assisted and supported by non locking gas shocks and shall be supported by a prop rod to prevent the cover from inadvertently closing. The handles shall be installed on the end of the cover to assist with rolling and lifting. All switches shall be installed on each side of the cover, so that when the cover is opened it indicates which switches shall activate the "Do Not Move Apparatus" warning inside the cab.

An individual hinged access door shall be provided over the water tank fill tower area. This door shall be hinged at the front, preventing the door from opening while the apparatus is in motion. The door shall not latch, so that it allows the door to open in the event of over pressurization in the tank.

VINYL FLAPS AT REAR EDGE OF TREADPLATE COVER

QTY: 1

Two (2) vinyl flaps at the rear of the tread plate hose bed cover. They shall be secured to the hose bed cover with quarter turn fasteners and to the rear body with bungee cords.

VINYL MATERIAL COLOR - BLACK

QTY: 1

The vinyl material shall be black in color.

HOSEBED STORAGE MODULE

QTY: 1

A storage module shall be provided in the lower hose bed on the driver side, 12" W x 30" H and full length. This module shall be constructed of brushed aluminum material and shall have storage space for:

The compartment will provide storage for 2 hose bundles 100' 1.75"ea., hooks, and back board.

A hinged tread plate door shall be installed to cover the entire storage area. The door shall hinge to the officer side of the body and shall be equipped with a sensor tied into the door ajar circuit.

ZICO "DUAL ARM" HYDRAULIC LADDER RACK (OFFICER SID

QTY: 1

A Ziamatic Quic Lift "Outside Arm Ladder System", a hydraulically actuated, dual arm, swing down ladder rack for use with ladders that have a combined weight of approximately 300 pounds, depending on the boom length, shall be provided. The ladders shall be stored horizontally, directly above the officer side compartments. The ladders shall be lowered and raised by means of dual 8" stroke hydraulic cylinders. The ladder raising and lowering mechanism requires 7" wide x 10" deep on the inside wall of the forward and rear compartment and requires 4-1/2" wide x 5" deep on the outside wall of the forward and rear compartment. Two (2) 2" x 4" heavy wall booms connect the hydraulic cylinders to the ladder rack. The mechanism that rotates the booms to raise and lower the ladder rack uses bronze bearings for years of trouble free service.

The actuator switch and power on/off switch for the ladder rack shall be located in the pump panel area in an enclosed housing. This provides the operator full view of the rack during the raising or lowering operation. A warning alarm shall activate when the rack is in motion. The warning alarm shall be installed on the rack side rear body panel. An interlock system shall be provided whereas if any hinged compartment door on the right side of the body is open, the rack shall not operate. A flashing warning light labeled: "Do Not Move Apparatus When Light Is On", shall be provided on the cab dash to indicate when the rack is not in the raised, travel position The forward and rear ends of the ladder rack shall be equipped with red flashing lights, as a warning when the rack is down. These lights shall automatically activate when the rack is not locked in the travel position. Pneumatic power clamps lock booms in the stored position that shall automatically engage when the ladder rack is nested.

DUO-SAFETY 900-A 24' 2-SECTION EXTENSION LADDER

QTY: 1

A Duo-Safety series 900-A, 24', aluminum, two (2) section extension ladder shall be provided.

DUO-SAFETY 775-A 14' ROOF LADDER W/ FOLDING HOOKS

QTY: 1

A Duo-Safety series 775-A, 14', aluminum, straight roof ladder with folding hooks shall be provided.

DUO-SAFETY 585-A 10' FOLDING ATTIC LADDER (ALUM)

QTY: 1

A Duo-Safety series 585-A, 10', folding, aluminum, attic ladder shall be provided.

ADJUSTABLE SHELF DESCRIPTION - RESCUE

QTY: 1

Compartment shelving shall be constructed of 3/16" brush finish aluminum with a 2" upward bend at front and rear, and side supports. Shelving shall be vertically adjustable with spring nuts in aluminum strut channel.

Adjustable shelves shall be located as indicated at each compartment description.

ADJUSTABLE SHELF(S) LOCATED L-1

QTY: 1

Located in the left side compartment #1

ADJUSTABLE SHELF(S) LOCATED L-1

QTY: 1

Located in the left side compartment #1

ADJUSTABLE SHELF(S) LOCATED L-2

QTY: 1

Located in the left side compartment #2

ADJUSTABLE SHELF(S) LOCATED L-3

QTY: 1

Located in the left side compartment #3

ADJUSTABLE SHELF(S) LOCATED R-1

QTY: 2

Located in the right side compartment #1

ADJUSTABLE SHELF(S) LOCATED R-3

QTY: 1

Located in the right side compartment #3

250#, FLOOR MOUNTED, ROLLOUT TRAY DESCRIPTION

QTY: 1

Slide out floor mount compartment shelving shall be constructed of 3/16" brush finish aluminum with a 2" upward bend at front and rear, and side supports attached to #250 rated slides. Slide out floor mount shelving shall have gas shocks to hold the tray in and out.

Slide out floor mount shelving shall be as indicated at each compartment description.

ROLLOUT TRAY, LOCATED R-3

QTY: 1

Located in the right side compartment #3

250# ROLLOUT TRAY, LOCATED REAR COMPARTMENT

QTY: 1

Located in the rear compartment

TURTLE TILE MATERIAL ON ALL COMPARTMENT FLOOR

QTY: 1

Turtle Tile brand floor material shall be installed on all compartment floors.

The Turtle Tile shall be custom installed to provide full floor coverage.

FLOORING MATERIAL ON SHELF(S) OR TR

QTY: 10

Floor matting material shall be provided on the noted quantity of specified shelves or roll-out trays.

FLOORING MATERIAL COLOR (BLACK IS DEFAULT)

QTY: 1

The compartment flooring color shall be black.

ROLL-OUT/ DROP DOWN ADJUSTABLE TRAY

QTY: 1

The roll out/tilt tray shall consist of a 3/16" brushed aluminum finished aluminum tray with a minimum 2" lip on all four sides. Heavy duty aluminum Unistrut "C" channel tracking material shall be utilized to securely fasten the slide tracks to the compartment walls, while allowing height adjustment.

The rear of the tip down tray shall be mounted on a slider with an integral pivot plate. This slider and pivot plate shall be mounted inside an aluminum rail for maximum strength. The tray shall be released from the stowed position with the use of a push button and shall be capable of auto latching to the stowed position. The front handle/latch shall be designed with a double hand hold to control the tray when deployed or stowed.

Roll out/Tilt trays be as indicated at each compartment description.

ROLLOUT DROP DOWN TRAY, LOCATED R-2

QTY: 1

Located in the right side compartment #2

GENERAL PAINT DESCRIPTION

QTY: 1

The apparatus body shall be painted with Sikkens paint product. The paint process shall meet or exceed current state regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water, and soil. Contractor shall, upon demand, provide evidence that the manufacturing facility is in compliance with State EPA rules and regulations.

The exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body. Any vertically or horizontally hinged smooth-plate compartment doors shall be painted separately to assure proper paint coverage on body, door jambs and door edges.

Paint process shall feature Sikkens high solid LV products and be performed in the following steps:

- Corrosion Prevention - all aluminum surfaces shall be pre-treated with the Alodine 5700 conversion coating to provide superior corrosion resistance and excellent adhesion of the base coat.
- Sikkens Sealer/Primer LV - acrylic urethane sealer/primer shall be applied to guarantee excellent gloss hold-out, chip resistance and a uniform base color.
- Sikkens High Solid LVBT650 (Base coat) - a lead-free, chromate-free high solid acrylic urethane base coat shall be applied, providing excellent coverage and durability. A minimum of two (2) coats shall be applied.
- Sikkens High Solid LVBT650 (Clear coat) - high solid LV clear coat shall be applied as the final step in order to ensure full gloss and color retention and durability. A minimum of two (2) coats shall be applied.

Any location where the material is penetrated after painting, for the purpose of mounting steps, hand rails, doors, lights, or other specified components shall be treated at the point of penetration with a corrosion inhibiting pre-treatment (ECK Corrosion Control). The pre-treatment shall be applied to the aluminum sheet metal or aluminum extrusions in all locations where the aluminum has been penetrated. All

hardware used in mounting steps, hand rails, doors, lights, or other specified components shall be individually treated with the corrosion inhibiting pre-treatment.

After the paint process is complete, the gloss rating of the unit shall be tested with a 20 degree gloss meter. Coating thickness shall be measured with a digital MIL gauge and the orange peel with a digital wave scan device.

GENERAL PRIMER & PREP DESCRIPTION

QTY: 1

All exposed welds shall be ground smooth for final finishing of areas to be painted.

The compartments and doors are totally degreased and phosphatized.

After final body work is completed, grinding (36 and 80 grit), and finish sanding shall be used in preparation for priming.

GENERAL FINISH PAINT DESCRIPTION

QTY: 1

The body shall be finish sanded and prepared for final paint.

Upon completion of final preparation, the body shall be painted utilizing the highest quality, state of the art, low V.O.C., polyurethane base paint.

Finish paint shall be applied in multiple coats to ensure proper paint coverage with a high gloss finish.

FINISH PAINT & PREP

QTY: 1

The applicable areas of the cab shall be finish sanded and prepared for final paint.

Upon completion of final preparation, the cab shall be painted utilizing the highest quality, state of the art, low V.O.C., polyurethane base paint.

Finish paint shall be applied in multiple coats to ensure proper paint coverage with a high gloss finish.

CAB PRIMER & PREP

QTY: 1

The cab primer shall be a two (2) stage process.

First stage shall be a coating with a two part component, self etching, and corrosion resistant primer to chemically bond the surface of the metal for increased adhesion.

Second stage shall be multiple coats of a catalyzed, two component, polyurethane primer applied for leveling of small imperfections and top coat sealing.

CAB UNDERSIDE PAINT - JOB COLOR

QTY: 1

The exposed areas under the cab shall be painted job color to match the exterior cab.

On two tone cabs, this shall match the primary color.

CAB BUFFING & FINISH

QTY: 1

The exposed exterior finish of the cab shall be buffed and detailed.

CAB INTERIOR PAINT

QTY: 1

The exposed interior metal surfaces of the cab shall be finish painted with a textured gray paint.

BODY BUFFING & FINISH

QTY: 1

The visable and exposed areas of the body shall be buffed and detailed.

INSIDE/UNDERSIDE BODY PAINT

QTY: 1

The inside and underside of the complete body assembly shall be painted job color using a Sikkens paint system, prior to installation of the body on the chassis or torque box.

COMPARTMENT INTERIOR FINISH

QTY: 1

The interior of the aluminum body compartments shall have an unpainted "DA" finish inside.

All seams shall be caulked with a clear silicone type caulking.

FENDER COMPARTMENT INTERIOR

QTY: 1

The interior of the fender storage compartments (if fender compartments are specified) shall be finish painted job color.

CAB PAINT SCHEME - TBD

QTY: 1

The cab exterior shall be finish painted with Sikkens paint system, single color, to match purchaser's furnished paint code.

PUMP PAINTED / UNPAINTED PLUMBING

QTY: 1

The pump shall be painted per the pump manufacturer's standard. The stainless steel plumbing will remain unpainted. The pump area interior will match the body underside finish as described elsewhere in these specifications.

SINGLE COLOR BODY PAINT SCHEME - TBD

QTY: 1

The body paint finish shall be Sikkens paint system in a single color to match customer furnished paint codes and requirements.

PINT OF TOUCH-UP PAINT

QTY: 1

One (1) pint of each exterior color paint for touch-up purposes shall be supplied when the apparatus is delivered to the end user.

FINALIZATION & DETAILING

QTY: 1

Prior to delivery the vehicle, the interior and exterior be cleaned and detailed.

The finalization process detailing shall include installation of NFPA required labels, checking fluid levels, sealing and caulking required areas of the cab and body, rust proofing, paint touch-up, etc

FRAME RAIL FINISH

QTY: 1

The chassis frame rails, suspension, axles, and drivelines (with the exception of any PTO drivelines which shall be safety yellow) shall be painted black with a polyurethane base paint prior to installation of any air lines or electric systems to ensure proper serviceability.

SCOTCH-LITE STRIPE

QTY: 1

A six (6) inch high "Scotch-Lite" stripe shall be provided.

The stripe shall be applied on a minimum of 60 percent of each side of the unit, 60 percent on the rear of the unit and 40 percent on the front of the unit.

The Scotch-Lite stripe layout shall be determined by the Fire Department.

WHITE SCOTCH-LITE

QTY: 1

The Scotch-Lite shall be white in color.

DUAL 1" SCOTCH-LITE ACCENT ON MAIN STRIPE

QTY: 1

A 1" high Scotch-Lite material accent stripe shall be incorporated into the Scotch-Lite scheme to border the primary Scotch-Lite stripe on the top and bottom edges.

Final layout of this configuration shall be determined by the Fire Department.

REAR CHEVRON STRIPING

QTY: 1

REAR CHEVRON STRIPING

ENTIRE REAR

QTY: 1

The entire rear of the truck shall be covered with alternating strips of reflective striping.

6" FULL REAR ORALITE CHEVRON STRIPING

QTY: 1

The striping shall be 6" Oralite reflective striping.

RED & YELLOW ORALITE V98

QTY: 1

The Oralite V98 reflective tape shall be #12 red and #18 yellow in color.

MISCELLANEOUS EQUIPMENT

QTY: 1

The following equipment shall be mounted as specified or as loose equipment provided with the completed apparatus at the time of delivery:

ROAD SAFETY KITS

QTY: 1

A road safety kit shall be furnished with the following equipment:

- 2 1/2 lb. B-C fire extinguisher
- Triangle safety reflectors.

SCBA CYLINDER STORAGE

QTY: 3

A Zico SCBA bottle brackets mounted as directed by the fire department.

HANDLIGHT/S

QTY: 2

A Streamlight model 44451 orange "Fire Vulcan" C4 LED rechargeable hand light(s) and 12 volt charger shall be installed as directed by the purchaser.

Charger shall be wired to the chassis battery system.

WHEEL CHOCKS

QTY: 1

Two (2) ZICO #SAC-44 folding wheel chocks shall be mounted forward of the rear wheels on the driver side below the side running board compartments.

KME WARRANTY, STARTING ON IN-SERVICE DATE

QTY: 1

Warranty coverage by KME will begin when the customer places the unit in service. This date may not exceed 60 days from the date of delivery to the customer.

The Customer must email kmeservice@kmefire.com within 60 days of delivery, or the warranty start date will default to the original delivery date.

GENERAL TWO (2) YEAR WARRANTY

QTY: 1

Purchaser shall receive a General Two (2) Years or 36,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0002. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

REGULATED EMISSIONS SYSTEMS FIVE (5) YEARS OR CARB

QTY: 1

Purchaser shall receive a Regulated Emissions Systems Five (5) Years or CARB Mileage limited warranty in accordance with, and subject to, warranty certificate RFW0140. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

ELECTRICAL ONE (1) YEAR WARRANTY

QTY: 1

Purchaser shall receive a Electrical One (1) Year or 18,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0201. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

FRAME ASSEMBLY STRUCTURAL TWENTY (20) YEAR WTY

QTY: 1

Purchaser shall receive a Frame Assembly Structural Twenty (20) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0304. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

FRAME RAIL CORROSION (PAINTED) THREE (3) YEAR WTY

QTY: 1

Purchaser shall receive a Frame Rail Corrosion (Painted) Three (3) Years or 48,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0310. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

BODY STRUCTURE (ALUMINUM) TEN (10) YEAR WARRANTY

QTY: 1

Purchaser shall receive a Body Structure (Aluminum) Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0502. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PAINT AND FINISH (EXTERIOR CLEAR COATED) WARRANTY

QTY: 1

Purchaser shall receive a Paint and Finish (Exterior Clear coated) Seven (7) Years limited warranty in accordance with, and subject to, warranty certificate RFW0707. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PLUMBING AND PIPING (STAINLESS STEEL) WARRANTY

QTY: 1

Purchaser shall receive a Plumbing and Piping (Stainless Steel) Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0800. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PLUMBING AND PIPING CORROSION-FREE WARRANTY

QTY: 1

Purchaser shall receive a Plumbing and Piping Corrosion-Free (Stainless Steel) Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0801. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

5 YEAR CUMMINS BASE WARRANTY

QTY: 1

The proposed unit will be equipped with a Fire Service rated engine, which will come furnished with a five (5) year Engine Manufacturer's warranty. A copy of the manufacturer's warranty will be supplied to define additional details of the warranty provisions.

5 YEAR ALLISON EVS TRANSMISSION WARRANTY

QTY: 1

The proposed Allison transmission will be provided with a five (5) year warranty. A copy of the Allison transmission warranty will be supplied to the purchaser to define additional details of the warranty provisions.

3 YEAR COOLING SYSTEM WARRANTY - CUSTOM

QTY: 1

Kovatch Mobile Equipment (KME) warrants all Cooling System Equipment components used in the construction of KME Fire Apparatus against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of three (3) years from the date of delivery/acceptance to the original user-purchaser, whichever occurs first.

This warranty applies to both purchased and fabricated, manufacturer supplied coolant system components and is not provided in lieu of any Vendor provided warranties. All coolant system components provided by the engine manufacturer are covered by the engine manufacturer's warranty only.

SHEPPARD STEERING GEAR STANDARD - WARRANTY

QTY: 1

The proposed Sheppard steering gear will be warranted for a period of three (3) years from the first date of service or 150,000 miles (241,401 kilometers), whichever occurs first. The product will be free from defects in material and workmanship under normal use in applications approved in advance by Sheppard.

5 YEAR MERITOR 180 SERIES TANDEM AXLE REAR

QTY: 1

The Meritor axle/s shall be provided with a five (5) year warranty. The first two (2) years shall be parts and labor; the remaining three (3) years shall be parts only. Wheel seals, gaskets and wheel bearings shall be covered for one year. A copy of Meritor's warranty shall be supplied to define additional details of the warranty provisions. Vehicles that operate full or part-time outside the United States and Canada shall have a one (1) year, parts only warranty.

3 YEAR MERITOR ABS - WARRANTY

QTY: 1

The Meritor ABS shall be provided with a three (3) year warranty, parts and labor. A copy of Meritor's warranty shall be supplied to define additional details of the warranty provisions. Vehicles that operate full or part-time outside the United States and Canada shall have a one (1) year, parts only warranty.

5 YEAR LETTERING WARRANTY

QTY: 1

The apparatus manufacturer will provide a five (5) year warranty against defects in material and workmanship for all graphics processes. Any valid claims must be made in writing within 15 days of the determination of any defects to the manufacturer's fire apparatus. The manufacturer will at its option make any necessary repairs either at a local authorized service center or at the factory if required. The manufacturer will make the final decision as to where the repairs are to be made and any transportation cost is the owner's responsibility. The manufacturer will at its option, repair or replace any verified defects in workmanship or materials at no cost to the owner provided all the requirements of this warranty have been met.

The manufacturer will not be liable to the original purchaser or anyone else for consequential, incidental, special or direct damages, including, but not limited to, any claims for loss of profits, downtime, loss of use or inconvenience. THE COMPANY MAKES NO OTHER WARRANTY, EXPRESSED OF IMPLIED, AND SPECIFICALLY, DISCLAIMS ANY IMPLIED WARRANTY INCLUDING THE WARRANTY OF MERCHANTABILITY.

The manufacturer continually strives to improve its products and therefore, reserves the right to make improvements or changes without incurring any obligations to make such changes or additions to equipment previously sold.

1 YEAR BRIGHTWORK WARRANTY

QTY: 1

KME Fire Apparatus (KME) warrants all bright finish components used in the construction of KME Fire Apparatus against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of one (1) year from the date of delivery/acceptance to the original user-purchaser, whichever occurs first.

The expressed warranty excludes corrosion or degradation of bright finished components caused by damage to the component.

FRONT SUSPENSION - STEERTEK - 5 YEAR WARRANTY

QTY: 1

The Hendrickson Steertek NXT front axle shall be provided with a five (5) year parts and labor warranty and shall include the axle and kingpin assembly, the steering arm assembly, and the upper and lower steering knuckle assembly.

The warranty for the integrated suspension components shall be two (2) years or two hundred fifty thousand (250,000) miles, whichever occurs first.

The integrated suspension components covered under this two year warranty are limited to:

- Front Frame Hanger Assemblies
- Rear Shackle Assemblies
- Jounce Stop Assemblies
- Rear Frame Hanger Assemblies
- Shock Absorbers
- Shock Absorber Brackets

- Leaf Spring Assemblies

A copy of the Hendrickson Steertek NXT Warranty shall be provided to define additional details of the warranty provisions.

HENDRICKSON AIR RIDE - SGL AXLE -THREE YEAR

QTY: 1

Hendrickson warrants suspension products manufactured by it to be free from defects in material and workmanship which occur under normal use and service for a period of three(3) years (base year + 2 years).
This warranty will not apply and no warranty of any kind will exist as to any product which has been subject to abuse, misuse, neglect, misapplication or accident of any type or cause or which has been repaired, replaced, substituted or used with parts other than genuine Hendrickson parts or altered by anyone.

LIFETIME POLY TANK WARRANTY - ALL TANKS

QTY: 1

The proposed water tank will be warranted by the water tank manufacturer for the "Lifetime" of the unit. A copy of the manufacturer's warranty will be supplied to define additional details of the warranty provisions.

WATEROUS 7 YEAR PUMP WARRANTY PARTS ONLY

QTY: 1

Waterous warrants, to the original Buyer only, that products manufactured by Waterous shall be free from defects in material and workmanship under normal use and service for a period of seven (7) years from the date the product is first placed in service or seven and one-half (7 1/2) years from the date of shipment by Waterous, whichever period shall be the first to expire; provided the buyer notifies Waterous, in writing, of the defect in said product within the warranty period, and said product is found by Waterous to be nonconforming with the aforesaid warranty.

FOAM PRO 2000 SERIES STANDARD WARRANTY

QTY: 1

The liability of FoamPro under the foregoing warranty will be limited to the repair or replacement at FoamPro's option without charge for labor or materials of any parts upon return of the entire pump, system or other product or of the particular part to the FoamPro factory within the warranty period, at the sole expense of the purchaser, which part will upon examination appear to FoamPro's satisfaction to have been defective in material and workmanship.

AKRON - 5 YEAR LIMITED WARRANTY

QTY: 1

The limited warranty set forth here against defective materials or workmanship for a period of five (5) years will be given by Akron Brass Co. with respect to Akron Brass Co. products purchased and used in the United States and Canada respectively. All Akron valves are warranted for 10 years.

CLASS 1 - ELECTRICAL PRODUCT WARRANTY

QTY: 1

Class 1 warrants that any equipment of our own manufacture (or manufactured for us pursuant to our specifications) found to have defects in material or workmanship during normal use and service, will be repaired or replaced (at our option) free of charge, provided that written notice of such defect is received by us within two years (three for liquid-filled gauges) after initial shipment.

All equipment requiring repair or replacement under this warranty will be returned prepaid to Class 1. Such returned equipment will be examined by us and, if found to be defective as a result of materials failure or workmanship, will be repaired or replaced at no charge.

BOSTROM SEATING 5 YEAR WARRANTY

QTY: 1

H.O. Bostrom will warrant each new seat manufactured, to be free from defects in materials and workmanship when delivered to the original purchaser for a period of five (5) years.
Labor to remove or reinstall and transportation of defective items will not be covered by, or any allowance made for the said cost under this warranty.

CORROSION TREATMENT

QTY: 1

Upon apparatus completion, underside of the apparatus, from the pump enclosure-back, shall have anti corrosion film applied to help inhibit rust and the corrosion process. The semi-firm wax film shall be applied by air spray method. The film shall be applied as a minimum to the following areas: body substructure, underside of all body compartments, running board supports and rear step supports. No film shall be applied directly to the exhaust system or wheel wells.

NOTE: The film shall remain semi-firm to promote self-sealing. The film may leave a light tinted color to those areas treated.

ADDITIONAL ITEMS SHIPPED WITH VEHICLE

QTY: 1

- 1 - Bag of assorted stainless steel nuts and bolts

VEHICLE CLASS TIER 0

QTY: 1

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Betty Hughes, MMC, City Clerk

SUBJECT: City Manager Report and Comments
(Work Program, Regional/Legislative/Development Issues, Subcommittees, etc.)

RECOMMENDATION: Discussion and possible action.

Approved _____ Motion _____ Second _____ Agenda Item No. 17

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

D Hughes
City Clerk

City Manager

STAFF REPORT

TO THE CITY COUNCIL

DATE: May 10, 2022

FROM: Joseph A. Hughes, City Manager

PREPARED BY: Betty Hughes, MMC, City Clerk

SUBJECT: Council Member Comments
(Agency/Committee/AB1234 Reports, District Updates, etc.)

RECOMMENDATION: Discussion and possible action.

Approved _____ Motion _____ Second _____ Agenda Item No. 18

Denied _____ Ayes _____

Continued _____ Noes _____ File No. _____

Tabled _____ Abstain _____

Absent _____

City Clerk

City Manager